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1034-1



Corona Flight Data

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12 PAGES  
(NOT INCLUDING PEST)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-31

VEHICLE NO. 1626

MISSION NO. 1834-1

CAMERA NOS. 186/187

DATE 6-26-66

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SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1834-1  
CAMERA NOS. 186/187

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SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1834-1  
CAMERA NOS. 186/187

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 186

SLAVE CAMERA SERIAL NO. 187

S/I -1 SERIAL NO. D85/189/76

S/I -2 SERIAL NO. D87/187/185

LAUNCH DATE 6-21-66

LAUNCH TIME 22-31-28 GMT

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBITAL PARAMETERS (REV. 48)

PERIOD 98.148 MIN.      ECCENTRICITY 0.81318

PERIGEE 185.378 NM      PERIGEE LAT. 18.245 DEG. N

APOGEE 199.598 NM      INCL. ANGLE 88.186 DEG.

RECOVERY ORBIT NO. 81

RECOVERY DATE 6-26-66

SYSTEM NO. J-31  
 VEHICLE NO. 1626  
 MISSION NO. 1034-1  
 CAMERA NOS. 186/187

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS		CAMERA NO. 186	CAMERA NO. 187
PANORAMIC OPTICS SLIT WIDTH	.200	IN	.150 IN
PANORAMIC OPTICS FILTER TYPE	WRATTEN 23A		WRATTEN 21
HORIZON OPTICS EXP. TIME	1/100	SEC.	1/100 SEC.
HORIZON OPTICS APERTURE	F6.3	SUPPLY	F8.0 SUPPLY
HORIZON OPTICS APERTURE	F8.0	TAKE-UP	F6.3 TAKE-UP
HORIZON OPTICS FILTER TYPE	WRATTEN 25		WRATTEN 25

STELLAR INDEX CAMERA SETTINGS

	D85/109/76		D87/107/105	
	STELLAR	INDEX	STELLAR	INDEX
EXPOSURE TIME	2.0	SEC	1.0	SEC
APERTURE SETTING	F1.8		F1.8	
FILTER TYPE	NONE		NONE	

RATIO ONE STELLAR/INDEX FRAME PER 7 MASTER CAMERA FRAMES.

FILM

PANORAMIC CAMERAS	CAMERA NO. 186	CAMERA NO. 187
TYPE	7J-40	7J-40
LENGTH	16000 FT.	16000 FT.
SPLICES	4	4
EMUL. DATA	244-6-8-4-6	244-6-4-6
LG. BETWEEN	2826-3917-3935-	3149-3914-3926-
SPLICES	3932-1390C	3926-1085C

STELLAR/INDEX CAMERAS

	D85/109/76		D87/107/105	
	STELLAR	INDEX	STELLAR	INDEX
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	151-48-3-6	113-2-3-6	151-48-3-6	113-2-3



SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1034-1  
CAMERA NOS. 186/187

LENS DATA SUMMARY MASTER CAMERA NO. 186

LENS SERIAL NO. 1942435  
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.638 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTRAST
	BENCH TEST	264	3484	HIGH
		155	3484	LOW

DYNAMIC

BOSTON	198	3484	HIGH
	116	3484	LOW
AP	162	3484	HIGH
	184	3484	LOW

NOTE BOSTON RESOLUTION OF 198 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	0.003	0.002	0.001	0.000	0.002	0.003	0.005

SYSTEM NO. J-31  
 VEHICLE NO. 1626  
 MISSION NO. 1834-1  
 CAMERA NOS. 186/187

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 186)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12875	12846
OPERATIONAL FOCAL LENGTH	54.98 MM	54.98 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.028 MM	0.018 MM
20 DEG. OFF AXIS	0.060 MM	0.050 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.015 MM	0.010 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	187	186	206	181	175	119	-0	36
(TANGENTIAL)	187	185	161	138	103	96	-0	62
SUPPLY (RADIAL)	209	206	163	143	139	134	-0	64
(TANGENTIAL)	209	185	144	130	93	86	-0	70

DYNAMIC (ZERO DEG)  
 TAKE-UP -0 LINES/MM  
 SUPPLY -0 LINES/MM

NOTE

1. DISTORTION AND RESOLUTION ARE READ AT EQUIVALENT OPERATIONAL FOCAL LENGTH.
2. RESOLUTION IN LINES PER MM ON 3404 FILM AND HIGH CONTRAST TARGET.

SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1834-1  
CAMERA NOS. 186/187

LENS DATA SUMMARY SLAVE CAMERA NO. 187

LENS SERIAL NO. 1932435  
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.638 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTRA:
	BENCH TEST	258	3484	HIGH
		149	3484	LOW
DYNAMIC				
	BOSTON	193	3484	HIGH
		117	3484	LOW
	AP	168	3484	HIGH
		109	3484	LOW

NOTE BOSTON RESOLUTION OF 193 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	0.008	0.004	0.001	0.000	0.000	0.002	0.007



SYSTEM NO. J-31  
 VEHICLE NO. 1626  
 MISSION NO. 1034-1  
 CAMERA NOS. 186/187

LENS DATA SUMMARY (HORIZON CAMERAS FOR SLAVE CAMERA NO. 187)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12833	12843
OPERATIONAL FOCAL LENGTH	55.80 MM	54.92 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.018 MM	0.018 MM
20 DEG. OFF AXIS	0.050 MM	0.060 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.020 MM	0.028 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	289	288	183	143	156	150	-0	57
(TANGENTIAL)	209	185	181	155	130	96	-0	70
SUPPLY (RADIAL)	187	165	164	181	156	106	-0	45
(TANGENTIAL)	187	185	144	123	116	96	-0	62

DYNAMIC (ZERO DEG)

TAKE-UP -0 LINES/MM  
 SUPPLY -0 LINES/MM

NOTE

1. DISTORTION AND RESOLUTION ARE READ AT EQUIVALENT OPERATIONAL FOCAL LENGTH.
2. RESOLUTION IN LINES PER MM ON 3484 FILM AND HIGH CONTRAST TARGET.

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SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1834-1  
CAMERA NOS. 186/187

FORMAT DIMENSIONS AND CALIBRATIONS

CAMERA NO. 186

CAMERA NO. 187

A	76.128	76.128
B	355.248	355.128
C	718.358	718.268
D	56.598	56.661
E	56.655	56.265
XT	-8.886	8.859
YT	8.885	-8.837
XS	8.625	-8.669
YS	-8.192	-8.818
XVO	1.944	8.183
YVO	8.261	1.866
DTX	-8.885	8.857
DTY	2.885	1.963
DSX	8.638	-8.671
DSY	-2.192	-2.818
DMX	8.221	8.219
DMY	21.944	21.866
HEIGHT	-8.888	-8.888
WIDTH	-8.888	-8.888
DIRECTION		
FLIGHT	-Y	+Y
SCAN	+X	+X

- NOTE 1. ALL DIMENSIONS ARE IN MILLIMETERS AND ARE AVERAGE DIMENSIONS OF THREE FORMATS.  
2. HEIGHT OF MAIN FORMAT IS TAKEN AT CENTER OF FORMAT.  
3. DT, DM, DS, X, AND Y DIMENSIONS ARE TAKEN 18MM ABOVE POINT DEFINING TARGET CENTER.  
4. NEGATIVE VIEWED WITH EMULSION SIDE DOWN.  
5. FORMAT SIGN CONVENTION

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

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SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1834-1  
CAMERA NOS. 186/187

LENS DATA SUMMARY STELLAR INDEX D85/189/76 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	18683	819968
RESEAU SERIAL NO.	76	189
FILTER TYPE	NONE	WRITTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.46 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	067/71	072/76	104/84	094/40	087/33

AWAR 72 LINES/MM  
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	±.0025 INCHES/.937 INCHES	-0.0005 INCHES/2.25 INCH

SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1834-1  
CAMERA NOS. 186/187

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LENS DATA SUMMARY STELLAR INDEX D87/187/185 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	18592	819956
RESEAU SERIAL NO.	185	187
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	1.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.44 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (348P FILM)	871/71	874/77	182/84	895/46	888/39

AWAR 73 LINES/MM  
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	-0.0002 INCHES/.937 INCHES	-0.0008 INCHES/2.25 INCH

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SYSTEM NO. J-31  
VEHICLE NO. 1626  
MISSION NO. 1834-1  
CAMERA NOS. 186/187

CYCLE PERIOD DATA

V/H LEVEL	RAMP AMPLITUDE	SETTING RAMP-SEC	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT NO.
				MASTER	SLAVE	MASTER	SLAVE	
7	6		2748	2.889	2.889	2.893	2.989	9
5	11		2748	2.639	2.648	2.658	2.688	16
3	11		2748	2.434	2.434	2.448	2.451	32
3	11		2748	2.434	2.434	2.458	2.452	47
3	11		2748	2.434	2.434	2.426	2.443	63
3	11		2748	2.434	2.434	2.455	2.445	79
5	11		2748	2.639	2.648	2.672	2.665	88

NOTE

A -0 OR \* INDICATE NO DATA AVAILABLE.

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A. 1834-1

B. DRY

C. PERFORMANCE ESTIMATE PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 186

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
PRE-FLT 182												
1	3	0	12	ON	2 51 22	148 5W	760920	788796	21	23	1	8 13 8 82860
				OFF	2 40 55	147 11W	749790	777243	21	23	1	38 1312 82898
2	3	1	36	ON	1 54 53	191 4E	793098	822199	22	0	26	34 1310 1594
				OFF	1 47 44	193 54E	757743	785498	22	0	28	24 1324 1704
4	4	1	36	ON	2 71 48	126 1E	862428	894180	22	3	26	9 1150 12369
				OFF	2 64 58	135 21E	824415	854712	22	3	28	2 1229 12482
5	8	1	80	ON	3 10 10	131 37E	661916	686046	22	5	17	9 14 3 19029
				OFF	3 25 48	133 41E	707958	733825	22	5	21	2 1415 19262
6	4	1	131	ON	2 42 21	101 16E	715774	741938	22	6	34	16 1319 23656
				OFF	2 16 53	105 46E	649871	673548	22	6	40	38 1343 24038
8	6	1	14	ON	2 70 21	37 36E	846519	877661	22	9	27	17 1157 34037
				OFF	2 67 52	41 17E	832438	863041	22	9	27	59 1213 34079
8	6	2	66	ON	2 57 44	49 57E	779846	808442	22	9	30	42 1250 34242
				OFF	2 46 18	54 45E	728516	755162	22	9	33	38 1312 34418
9	3	0	15	ON	1 39 1	123 25W	1135795	1178165	22	10	40	29 226 38429
				OFF	1 41 55	122 43W	1126632	1168642	22	10	41	15 230 38475
9	3	1	31	ON	2 80 3	39 36W	925357	959531	22	10	53	26 814 39206
				OFF	2 77 51	9 24W	894593	927581	22	10	54	59 1017 39299
9	3	2	12	ON	2 45 46	32 13E	724852	751359	22	11	3	57 1312 39837
				OFF	2 43 19	32 55E	715288	741433	22	11	4	34 1316 39874
10	3	1	39	ON	2 28 46	13 17E	668672	693057	22	12	38	24 1331 45504
				OFF	2 21 3	14 26E	653158	676959	22	12	40	19 1338 45619
11	4	1	32	ON	2 21 22	8 17W	653266	677071	22	14	10	25 1337 51025
				OFF	2 15 3	7 28W	645482	668994	22	14	11	59 1342 51119
13	8	1	42	ON	3 9 20	50 3W	661685	685006	22	17	18	23 1350 62303
				OFF	3 17 45	49 1W	683820	700704	22	17	20	28 14 4 62420
14	9	1	48	ON	3 25 20	70 39W	710923	736902	22	18	52	32 14 9 67952
				OFF	3 34 46	69 1W	751522	779039	22	18	54	54 1418 68094
16	9	0	13	ON	2 33 36	123 45W	678861	703630	22	21	38	15 1323 77895
				OFF	2 31 9	123 10W	672233	696753	22	21	38	52 1325 77932
19	8	1	33	ON	2 67 47	151 43E	819478	849506	23	1	59	56 12 6 7196
				OFF	2 61 49	157 36E	788638	817568	23	2	1	33 1232 7293
20	3	2	12	ON	3 3 55	150 26E	653536	677351	23	3	48	15 1350 13695
				OFF	3 6 22	150 43E	657871	681849	23	3	48	51 1351 13731
20	3	3	13	ON	3 24 18	153 0E	710435	736395	23	3	53	19 14 5 13999
				OFF	3 26 51	153 23E	720508	746932	23	3	53	57 14 7 14037
22	5	1	60	ON	2 42 53	97 58E	704960	730714	23	6	36	57 13 8 23817
				OFF	2 32 31	100 15E	672982	697530	23	6	39	33 1320 23973
24	5	1	15	ON	2 70 34	34 6E	829292	859775	23	9	30	0 1146 34200
				OFF	2 68 8	37 48E	815956	845929	23	9	30	42 12 1 34242
24	5	2	106	ON	2 57 33	46 55E	763525	791500	23	9	33	31 1241 34411
				OFF	2 39 2	53 31E	690775	715993	23	9	38	14 1312 34694

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					OFF 264	41.2	173.2	11.98	12.39	11.79	11.19
125	2	1	16	42.3	ON 288	76.1	159.2	12.82	12.42	11.82	11.22
					OFF 288	73.3	162.7	12.82	12.42	11.82	11.22
125	2	2	32	84.6	ON 288	58.1	172.3	12.82	12.42	11.82	11.22
					OFF 288	44.4	173.1	12.82	12.41	11.81	11.21
127	4	2	15	39.7	ON 311	78.8	24.7	12.13	12.42	11.82	11.22
					OFF 311	81.1	31.4	12.13	12.42	11.82	11.22
134	2	1	35	92.6	ON 276	43.7	6.5	11.96	12.41	11.81	11.21
					OFF 276	58.1	7.8	11.96	12.42	11.82	11.22
133	2	1	14	37.8	ON 311	78.9	11.8	12.13	12.42	11.82	11.22
					OFF 311	73.3	13.4	12.13	12.42	11.82	11.22
133	2	2	57	158.8	ON 311	85.3	53.5	12.13	12.42	11.82	11.22
					OFF 311	82.4	158.1	12.13	12.42	11.82	11.22
134	4	1	15	39.7	ON 275	35.7	5.9	11.96	12.36	11.76	11.16
					OFF 275	36.5	5.7	11.96	12.38	11.78	11.18
134	4	2	43	113.7	ON 275	46.3	5.8	11.96	12.42	11.82	11.22
					OFF 275	54.2	6.6	11.96	12.42	11.82	11.22
134	4	3	13	34.4	ON 275	68.6	7.7	11.96	12.42	11.82	11.22
					OFF 275	63.1	8.3	11.96	12.42	11.82	11.22
135	7	1	47	124.3	ON 299	78.5	18.7	12.87	12.42	11.82	11.22
					OFF 298	78.3	17.7	12.87	12.42	11.82	11.22
136	9	1	48	127.8	ON 298	61.1	7.2	12.87	12.42	11.82	11.22
					OFF 298	69.1	9.7	12.87	12.42	11.82	11.22
136	9	2	35	92.6	ON 298	76.8	14.2	12.87	12.42	11.82	11.22
					OFF 298	81.6	23.9	12.87	12.42	11.82	11.22
136	9	3	58	132.3	ON 298	72.4	168.8	12.87	12.42	11.82	11.22
					OFF 299	64.1	172.3	12.87	12.42	11.82	11.22
137	8	1	23	68.8	ON 263	66.6	171.9	11.89	12.42	11.82	11.22
					OFF 263	62.1	173.1	11.89	12.42	11.82	11.22
137	8	2	52	137.5	ON 263	49.7	175.8	11.89	12.42	11.82	11.22
					OFF 263	39.8	175.7	11.89	12.39	11.79	11.19
137	8	3	26	52.9	ON 263	34.5	176.8	11.89	12.34	11.74	11.14
					OFF 263	38.7	176.2	11.89	12.38	11.78	11.18
142	4	1	59	156.1	ON 287	66.7	172.9	12.82	12.42	11.82	11.22
					OFF 287	56.3	174.9	12.82	12.42	11.82	11.22
141	6	1	53	142.2	ON 275	56.8	175.1	11.96	12.42	11.82	11.22
					OFF 275	47.1	176.8	11.96	12.42	11.82	11.22
143	7	2	14	37.8	ON 389	79.1	12.9	12.13	12.42	11.82	11.22
					OFF 389	81.5	16.5	12.13	12.42	11.82	11.22
144	1	2	11	29.1	ON 263	44.4	176.8	11.89	12.41	11.81	11.21
					OFF 263	42.1	176.9	11.89	12.46	11.88	11.28
146	2	1	58	132.3	ON 287	48.2	3.4	12.82	12.42	11.82	11.22
					OFF 287	57.2	3.9	12.82	12.42	11.82	11.22
149	6	1	16	47.5	ON 286	35.4	3.2	12.81	12.35	11.75	11.15
					OFF 286	38.8	3.8	12.81	12.38	11.78	11.18
149	6	2	38	79.3	ON 286	62.8	3.5	12.81	12.42	11.82	11.22
					OFF 286	67.5	4.2	12.81	12.42	11.82	11.22
149	6	3	12	31.7	ON 286	78.9	4.9	12.81	12.42	11.82	11.22
					OFF 286	73.2	5.5	12.81	12.42	11.82	11.22
152	4	1	16	42.3	ON 286	35.2	3.1	12.81	12.35	11.75	11.15
					OFF 286	38.8	2.8	12.81	12.37	11.77	11.17

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150	4	2	14	37.8	ON	286	68.7	3.1	12.81	12.42	11.82	11.22
					OFF	286	63.2	3.3	12.81	12.42	11.82	11.22
150	4	3	77	283.7	ON	286	65.9	3.6	12.81	12.42	11.82	11.22
					OFF	286	79.6	8.8	12.81	12.42	11.82	11.22
151	8	1	14	37.8	ON	286	48.2	2.5	12.81	12.39	11.79	11.19
					OFF	286	42.8	2.4	12.81	12.48	11.88	11.28
151	8	2	34	89.9	ON	286	59.8	2.8	12.81	12.42	11.82	11.22
					OFF	286	65.9	3.3	12.81	12.42	11.82	11.22
152	8	1	184	275.1	ON	297	51.3	2.2	12.87	12.42	11.82	11.22
					OFF	297	68.9	3.3	12.87	12.42	11.82	11.22
153	8	1	52	137.5	ON	238	41.8	178.6	11.75	12.39	11.79	11.19
					OFF	238	38.1	178.8	11.75	12.38	11.78	11.18
156	7	1	68	158.7	ON	274	66.9	178.6	11.95	12.42	11.82	11.22
					OFF	274	55.8	179.8	11.95	12.42	11.82	11.22
159	7	1	26	68.8	ON	274	48.8	1.8	11.95	12.39	11.79	11.19
					OFF	274	44.9	8.8	11.95	12.41	11.81	11.21
159	7	F	14	37.8	ON	328	78.9	8.9	12.12	12.42	11.82	11.22
					OFF	328	81.4	1.1	12.12	12.42	11.82	11.22
162	2	1	11	29.1	ON	262	49.5	188.8	11.89	12.42	11.82	11.22
					OFF	262	47.2	188.8	11.89	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO		187 2.15 <sup>0</sup> SLIT W/21		FILTER		3484 FILM						
OPV NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
82	2	1	12	31.7	ON	355	39.6	165.6	12.32	12.71	12.11	11.51
					OFF	355	37.5	166.8	12.32	12.78	12.18	11.58
81	2	2	3	7.9	ON	324	51.8	17.6	12.19	12.75	12.15	11.55
					OFF	324	53.3	18.3	12.19	12.75	12.15	11.55
82	5	1	14	37.8	ON	324	34.3	11.4	12.19	12.67	12.87	11.47
					OFF	324	37.3	12.4	12.19	12.78	12.18	11.58
82	5	2	48	125.8	ON	324	42.4	14.8	12.19	12.73	12.13	11.53
					OFF	324	58.8	17.8	12.19	12.75	12.15	11.55
84	5	1	54	142.8	ON	399	61.3	22.3	12.49	12.75	12.15	11.55
					OFF	399	78.1	32.5	12.49	12.75	12.15	11.55
85	5	1	32	84.6	ON	399	79.5	64.8	12.49	12.75	12.15	11.55
					OFF	399	78.7	112.6	12.49	12.75	12.15	11.55
85	5	2	14	37.8	ON	399	69.1	149.5	12.49	12.75	12.15	11.55
					OFF	399	67.8	152.5	12.49	12.75	12.15	11.55
87	4	1	83	219.5	ON	355	53.3	16.9	12.32	12.75	12.15	11.55
					OFF	355	67.4	27.1	12.32	12.75	12.15	11.55
88	2	F	17	45.8	ON	355	-25.1	11.8	12.32	8.88	8.88	8.88
					OFF	355	-22.1	18.7	12.32	8.88	8.88	8.88
88	2	1	21	55.8	ON	355	41.6	12.7	12.32	12.73	12.13	11.53
					OFF	355	45.4	13.8	12.32	12.74	12.14	11.54
88	2	2	19	52.3	ON	355	55.8	17.4	12.32	12.75	12.15	11.55
					OFF	355	58.3	19.1	12.32	12.75	12.15	11.55
88	2	3	13	34.4	ON	355	63.4	22.7	12.32	12.75	12.15	11.55
					OFF	355	65.7	24.8	12.32	12.75	12.15	11.55
88	2	4	74	185.7	ON	355	76.6	131.5	12.32	12.75	12.15	11.55
					OFF	355	68.5	155.3	12.32	12.75	12.15	11.55





90	3	1	54	142.8	ON	399	79.4	66.8	12.49	12.75	12.15	11.55
					OFF	399	79.2	115.5	12.49	12.75	12.15	11.55
91	8	1	38	100.5	ON	324	31.0	8.8	12.19	12.64	12.04	11.40
					OFF	324	38.4	11.2	12.19	12.71	12.11	11.55
91	8	2	13	34.4	ON	324	45.8	13.1	12.19	12.74	12.14	11.54
					OFF	324	47.5	13.8	12.19	12.75	12.15	11.55
92	9	1	43	113.7	ON	391	58.8	161.6	12.46	12.75	12.15	11.55
					OFF	391	51.6	164.7	12.46	12.75	12.15	11.55
95	2	1	28	52.9	ON	407	74.6	36.2	12.52	12.75	12.15	11.55
					OFF	407	77.2	45.1	12.52	12.75	12.15	11.55
97	4	1	22	58.2	ON	359	44.8	11.9	12.34	12.74	12.14	11.54
					OFF	359	49.0	13.1	12.34	12.75	12.15	11.55
98	5	1	36	95.2	ON	359	47.0	12.2	12.34	12.75	12.15	11.55
					OFF	359	53.7	14.4	12.34	12.75	12.15	11.55
100	5	1	62	164.0	ON	359	59.8	16.6	12.34	12.75	12.15	11.55
					OFF	359	70.9	26.3	12.34	12.75	12.15	11.55
101	7	1	52	137.5	ON	359	44.9	166.4	12.34	12.74	12.14	11.54
					OFF	359	35.3	170.0	12.34	12.68	12.08	11.40
102	5	1	16	42.3	ON	391	36.3	8.7	12.46	12.69	12.09	11.40
					OFF	391	39.2	9.5	12.46	12.71	12.11	11.51
102	5	2	65	171.0	ON	391	73.9	30.2	12.46	12.75	12.15	11.55
					OFF	391	81.6	72.9	12.46	12.75	12.15	11.55
103	4	1	72	190.4	ON	407	65.9	19.6	12.52	12.75	12.15	11.55
					OFF	407	76.8	37.1	12.52	12.75	12.15	11.55
104	8	1	27	71.4	ON	422	74.9	31.3	12.57	12.75	12.15	11.55
					OFF	422	78.5	42.5	12.57	12.75	12.15	11.55
104	8	2	46	121.7	ON	422	73.7	151.2	12.57	12.75	12.15	11.55
					OFF	422	66.9	159.8	12.57	12.75	12.15	11.55
105	5	1	11	29.1	ON	422	78.6	42.2	12.57	12.75	12.15	11.55
					OFF	422	79.9	49.6	12.57	12.75	12.15	11.55
105	5	2	56	153.4	ON	422	62.3	98.2	12.57	12.75	12.15	11.55
					OFF	422	77.3	143.8	12.57	12.75	12.15	11.55
107	5	1	21	55.5	ON	341	34.9	7.5	12.26	12.68	12.08	11.48
					OFF	341	39.7	8.6	12.26	12.71	12.11	11.51
108	5	1	51	134.0	ON	405	62.1	164.4	12.51	12.75	12.15	11.55
					OFF	405	53.7	167.7	12.51	12.75	12.15	11.55
109	4	1	20	52.9	ON	405	75.3	151.0	12.51	12.75	12.15	11.55
					OFF	405	72.1	156.3	12.51	12.75	12.15	11.55
109	4	2	25	66.1	ON	405	49.1	169.2	12.51	12.75	12.15	11.55
					OFF	405	44.9	170.0	12.51	12.74	12.14	11.54
111	4	1	14	37.0	ON	405	74.6	26.4	12.51	12.75	12.15	11.55
					OFF	405	76.7	31.1	12.51	12.75	12.15	11.55
114	7	1	37	97.9	ON	357	43.4	8.2	12.33	12.74	12.14	11.54
					OFF	357	50.3	9.7	12.33	12.75	12.15	11.55
115	7	2	19	50.3	ON	373	58.6	168.2	12.39	12.75	12.15	11.55
					OFF	373	54.6	169.2	12.39	12.75	12.15	11.55
115	7	1	13	34.4	ON	373	59.0	12.1	12.39	12.75	12.15	11.55
					OFF	373	62.2	13.1	12.39	12.75	12.15	11.55
115	7	2	24	63.5	ON	373	63.4	166.2	12.39	12.75	12.15	11.55
					OFF	373	59.1	168.1	12.39	12.75	12.15	11.55
115	7	3	32	56.0	ON	373	54.2	169.5	12.39	12.75	12.15	11.55

					OFF 373	58.2	178.5	12.39	12.75	12.15	11.55
117	5	1	58	153.4	ON 419	69.3	17.1	12.56	12.75	12.15	11.55
					OFF 419	78.1	38.4	12.56	12.75	12.15	11.55
117	5	2	58	153.4	ON 419	83.5	67.6	12.56	12.75	12.15	11.55
					OFF 419	88.8	139.3	12.56	12.75	12.15	11.55
118	6	1	16	42.3	ON 389	36.8	6.8	12.45	12.69	12.89	11.49
					OFF 389	38.8	6.6	12.45	12.71	12.11	11.51
118	6	2	51	134.9	ON 389	71.8	18.1	12.45	12.75	12.15	11.55
					OFF 389	79.2	32.8	12.45	12.75	12.15	11.55
119	4	1	154	487.3	ON 373	42.8	7.8	12.48	12.73	12.13	11.53
					OFF 373	69.7	16.5	12.48	12.75	12.15	11.55
120	9	1	14	37.8	ON 485	67.4	14.5	12.51	12.75	12.15	11.55
					OFF 485	69.7	16.2	12.51	12.75	12.15	11.55
120	9	2	28	52.9	ON 485	76.2	156.1	12.51	12.75	12.15	11.55
					OFF 485	73.8	168.7	12.51	12.75	12.15	11.55
120	9	3	21	55.5	ON 485	78.5	163.1	12.51	12.75	12.15	11.55
					OFF 485	67.1	165.6	12.51	12.75	12.15	11.55
121	7	1	65	171.9	ON 389	79.8	158.5	12.46	12.75	12.15	11.55
					OFF 389	68.2	165.3	12.46	12.75	12.15	11.55
121	7	2	29	76.7	ON 389	51.6	171.3	12.46	12.75	12.15	11.55
					OFF 389	46.4	172.2	12.46	12.75	12.15	11.55
122	3	1	88	211.6	ON 422	84.5	73.1	12.57	12.75	12.15	11.55
					OFF 422	77.4	155.1	12.57	12.75	12.15	11.55
124	7	1	46	121.7	ON 357	58.2	172.2	12.33	12.75	12.15	11.55
					OFF 357	41.5	173.4	12.33	12.73	12.13	11.53
125	2	1	16	42.3	ON 389	76.2	159.2	12.46	12.75	12.15	11.55
					OFF 389	73.4	162.7	12.46	12.75	12.15	11.55
125	2	2	33	87.3	ON 389	58.4	172.4	12.46	12.75	12.15	11.55
					OFF 389	44.7	173.2	12.46	12.74	12.14	11.54
127	4	1	15	39.7	ON 422	78.7	24.1	12.57	12.75	12.15	11.55
					OFF 422	81.8	32.6	12.57	12.75	12.15	11.55
130	2	1	35	92.6	ON 373	43.5	5.2	12.48	12.74	12.14	11.54
					OFF 373	49.9	6.2	12.48	12.75	12.15	11.55
133	2	1	15	39.7	ON 422	78.8	11.4	12.57	12.75	12.15	11.55
					OFF 422	73.2	13.8	12.57	12.75	12.15	11.55
133	2	2	56	153.4	ON 422	85.2	51.9	12.57	12.75	12.15	11.55
					OFF 422	82.5	149.9	12.57	12.75	12.15	11.55
134	4	1	15	39.7	ON 374	35.5	3.2	12.48	12.68	12.88	11.48
					OFF 374	38.3	3.7	12.48	12.71	12.11	11.51
134	4	2	43	113.7	ON 374	46.1	4.8	12.48	12.75	12.15	11.55
					OFF 374	54.8	5.9	12.48	12.75	12.15	11.55
134	4	3	13	34.4	ON 374	62.4	7.2	12.48	12.75	12.15	11.55
					OFF 374	63.8	7.8	12.48	12.75	12.15	11.55
135	7	1	47	124.3	ON 436	73.3	18.3	12.52	12.75	12.15	11.55
					OFF 436	78.2	17.1	12.52	12.75	12.15	11.55
136	9	1	48	127.8	ON 436	61.8	6.7	12.52	12.75	12.15	11.55
					OFF 436	69.8	9.3	12.52	12.75	12.15	11.55
136	9	2	35	92.6	ON 436	75.9	13.7	12.52	12.75	12.15	11.55
					OFF 436	81.5	23.2	12.52	12.75	12.15	11.55
136	9	3	53	132.3	ON 436	72.6	168.8	12.52	12.75	12.15	11.55
					OFF 436	64.3	172.3	12.52	12.75	12.15	11.55

137	8	1	23	68.8	ON	358	66.8	171.9	12.34	12.75	12.15	11.55
					OFF	358	62.3	173.2	12.34	12.75	12.15	11.55
137	8	2	52	137.5	ON	358	58.8	175.1	12.34	12.75	12.15	11.55
					OFF	358	48.2	175.9	12.34	12.72	12.12	11.52
137	8	3	28	52.9	ON	358	34.9	176.2	12.34	12.68	12.88	11.48
					OFF	358	31.1	176.4	12.34	12.64	12.84	11.44
148	4	1	68	158.7	ON	398	66.9	173.8	12.46	12.75	12.15	11.55
					OFF	398	56.5	175.8	12.46	12.75	12.15	11.55
141	6	1	53	148.2	ON	374	57.8	175.2	12.48	12.75	12.15	11.55
					OFF	374	47.4	176.2	12.48	12.75	12.15	11.55
143	7	8	14	37.8	ON	421	79.8	12.4	12.57	12.75	12.15	11.55
					OFF	421	81.4	15.9	12.57	12.75	12.15	11.55
144	1	2	12	31.7	ON	358	44.8	177.8	12.34	12.74	12.14	11.54
					OFF	358	42.5	177.1	12.34	12.73	12.13	11.53
146	2	1	51	134.9	ON	398	48.8	2.5	12.46	12.75	12.15	11.55
					OFF	398	57.8	3.4	12.46	12.75	12.15	11.55
149	6	1	19	58.3	ON	398	35.2	8.7	12.46	12.68	12.88	11.48
					OFF	398	38.6	1.1	12.46	12.71	12.11	11.51
149	6	2	31	82.8	ON	398	61.9	3.1	12.46	12.75	12.15	11.55
					OFF	398	67.4	3.8	12.46	12.75	12.15	11.55
149	6	3	13	34.4	ON	398	78.7	4.5	12.46	12.75	12.15	11.55
					OFF	398	73.1	5.1	12.46	12.75	12.15	11.55
158	4	1	16	42.3	ON	398	34.9	8.5	12.46	12.68	12.88	11.48
					OFF	398	37.8	8.8	12.46	12.76	12.18	11.58
158	4	2	14	37.8	ON	398	68.6	2.7	12.46	12.75	12.15	11.55
					OFF	398	63.8	2.9	12.46	12.75	12.15	11.55
158	4	3	78	286.3	ON	398	65.8	3.2	12.46	12.75	12.15	11.55
					OFF	398	79.5	7.5	12.46	12.75	12.15	11.55
151	8	1	15	39.7	ON	398	48.8	8.9	12.46	12.72	12.12	11.52
					OFF	398	42.6	1.1	12.46	12.73	12.13	11.53
151	8	2	34	89.9	ON	398	59.6	2.3	12.46	12.75	12.15	11.55
					OFF	398	65.7	2.9	12.46	12.75	12.15	11.55
152	8	1	104	275.1	ON	426	51.1	1.5	12.52	12.75	12.15	11.55
					OFF	426	68.8	2.9	12.52	12.75	12.15	11.55
153	8	1	53	148.2	ON	325	41.4	178.8	12.28	12.73	12.13	11.53
					OFF	325	38.6	179.8	12.28	12.63	12.83	11.43
155	7	1	61	161.3	ON	374	67.1	178.7	12.48	12.75	12.15	11.55
					OFF	374	56.2	179.1	12.48	12.75	12.15	11.55
159	7	8	15	39.7	ON	421	78.7	8.5	12.57	12.75	12.15	11.55
					OFF	421	81.3	8.8	12.57	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILE FILTER GRID ASSEMBLY NO D87

STELLAR 2.2 3481 NONE 187

INDEX 1758 3412 1721 195

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDEX FEET	H	M	S	G	LAT	LONG	Ø	LAT	LONG	SEC DUR		
82	2	1	2	7.28	7.48	22	P	57	3	23	128W	3	25	128W	32
82	5	1	3	8.38	8.59	0	35	36	2	76	142E	2	74	158E	45

82	5	2	6	0.59	1.19	0	37	38	2	69	159E	2	61	168E	138
84	5	1	7	0.69	1.39	3	42	42	2	51	128E	2	41	131E	144
85	6	1	5	2.50	2.99	5	19	6	2	26	112E	2	21	112E	78
85	6	2	3	0.30	0.59	5	23	47	2	7	114E	2	5	114E	36
87	4	1	12	1.19	2.38	8	10	53	2	59	56E	2	45	62E	221
88	2	0	2	0.20	0.40	9	21	10	1	38	115W	1	41	115W	46
88	2	1	3	0.30	0.59	9	38	1	2	70	22E	2	67	27E	57
88	2	2	3	0.30	0.59	9	41	24	2	57	34E	2	54	36E	52
88	2	3	3	0.30	0.59	9	43	35	2	49	38E	2	46	39E	37
88	2	4	10	0.99	1.98	9	51	49	2	16	45E	2	3	47E	199
90	3	1	8	0.79	1.58	12	48	47	2	29	1W	2	20	0W	130
91	8	1	6	0.59	1.19	14	5	36	2	78	73W	2	73	51W	111
91	8	2	2	0.20	0.40	14	9	7	2	67	41W	2	65	38W	38
92	9	1	6	0.59	1.19	15	57	18	3	4	42W	3	11	41W	110
95	2	1	3	0.30	0.59	20	17	12	2	37	116W	2	33	115W	58
97	4	1	4	0.40	0.79	23	9	34	2	67	177W	2	63	173W	63
98	5	1	5	0.50	0.99	7	40	10	2	65	162E	2	59	167E	101
100	5	1	9	0.69	1.70	3	43	33	2	53	125E	2	41	129E	174
101	7	1	8	0.79	1.58	5	31	38	3	19	114E	3	28	116E	145
102	5	1	2	0.20	0.40	6	37	49	2	74	55E	2	72	61E	43
102	5	2	10	0.99	1.98	6	47	23	2	38	84E	2	27	86E	169
103	4	1	10	0.99	1.98	8	15	19	2	46	59E	2	34	62E	180
104	8	1	4	0.40	0.79	9	47	48	2	37	39E	2	32	40E	65
104	8	2	7	0.69	1.39	9	54	29	2	10	43E	2	3	44E	169
105	5	1	2	0.20	0.40	11	18	58	2	32	17E	2	30	17E	28
105	5	2	6	0.79	1.58	11	21	18	2	23	19E	2	14	20E	139
107	5	1	4	0.40	0.79	14	7	48	2	75	61W	2	72	51W	62
108	5	1	7	0.69	1.39	15	57	50	3	2	45W	3	10	44W	127
109	4	1	3	0.30	0.59	17	24	28	2	11	70W	2	8	69W	52
109	4	2	4	0.40	0.79	17	31	12	3	15	66W	3	19	65W	63
111	4	1	2	0.20	0.40	20	18	2	2	37	119W	2	35	118W	36
114	7	1	5	0.50	1.00	6	40	19	2	68	156E	2	62	162E	103
115	7	2	3	0.30	0.59	2	29	21	3	6	156E	3	10	156E	52
115	7	1	2	0.20	0.40	3	44	29	2	52	122E	2	50	123E	36
116	7	2	4	0.40	0.79	3	50	3	3	1	132E	3	5	133E	66
116	7	3	3	0.30	0.59	4	0	22	3	10	133E	3	14	134E	60
117	5	1	9	0.69	1.70	5	16	56	2	43	103E	2	34	105E	140
117	5	2	6	0.79	1.58	5	21	10	2	26	106E	2	17	107E	138
118	6	1	3	0.30	0.59	5	30	42	2	74	53E	2	72	58E	42
118	6	2	7	0.69	1.39	5	47	24	2	41	80E	2	30	82E	132
119	4	1	23	2.20	4.50	8	10	14	2	69	41E	2	43	57E	413
120	9	1	2	0.20	0.40	9	46	34	2	45	34E	2	43	35E	35
120	9	2	3	0.30	0.59	9	55	1	2	11	40E	2	8	41E	51
120	9	3	3	0.30	0.59	9	56	30	2	5	41E	2	2	41E	52
121	7	1	10	0.99	1.98	11	24	19	2	14	17E	2	3	18E	169
121	7	2	4	0.40	0.79	11	31	19	3	13	20E	3	18	21E	77
122	3	1	12	1.19	2.38	12	51	37	2	25	6W	2	12	4W	192
124	7	1	7	0.69	1.39	16	1	47	3	15	46W	3	23	45W	130
125	2	1	2	0.20	0.40	17	25	18	2	11	72W	2	8	72W	43
125	2	2	5	0.50	1.00	17	31	45	3	15	69W	3	20	68W	85
127	4	1	3	0.30	0.59	20	10	42	2	33	121W	2	31	120W	37

138	2	1	5	0.58	0.99	0	41	2	2	67	154E	2	62	160E	95
133	2	1	2	0.28	0.48	5	17	58	2	41	100E	2	39	101E	36
133	2	2	9	0.89	1.78	5	21	43	2	26	104E	2	17	105E	138
134	4	1	2	0.28	0.48	6	39	11	2	74	50E	2	72	56E	42
134	4	2	6	0.59	1.19	6	41	47	2	65	66E	2	58	72E	117
134	4	3	3	0.32	0.59	6	45	18	2	52	75E	2	49	76E	37
135	7	1	7	0.69	1.39	8	17	46	2	42	55E	2	34	57E	118
136	9	1	7	0.69	1.39	9	45	29	2	51	29E	2	43	32E	119
136	9	2	5	0.58	0.99	9	49	18	2	36	34E	2	31	35E	87
136	9	3	7	0.69	1.39	9	56	42	2	6	38E	3	1	39E	124
137	8	1	4	0.42	0.79	11	28	18	2	0	16E	3	3	17E	66
137	8	2	8	0.79	1.58	11	32	28	3	16	18E	3	25	19E	146
137	8	3	3	0.32	0.59	11	36	5	3	31	28E	3	34	21E	57
142	4	1	9	2.89	1.78	15	58	13	2	0	51W	3	9	50W	155
141	6	1	7	0.69	1.39	17	30	41	3	9	72W	3	18	71W	144
143	7	1	3	0.32	0.59	20	20	3	2	33	123W	2	31	123W	36
144	1	2	2	0.22	0.42	22	3	47	3	21	139W	3	23	138W	34
146	2	1	7	0.69	1.39	0	42	29	2	63	156E	2	55	161E	131
149	6	1	3	0.32	0.59	5	9	22	2	74	70E	2	71	77E	50
149	6	2	4	0.42	0.79	5	15	53	2	50	95E	2	44	97E	80
149	6	3	2	0.22	0.42	5	18	2	2	41	98E	2	39	99E	34
152	4	1	3	0.32	0.59	6	39	19	2	74	47E	2	72	53E	41
152	4	2	2	0.22	0.42	6	45	34	2	51	72E	2	49	73E	36
152	4	3	12	1.19	2.38	5	46	58	2	46	74E	2	33	77E	202
151	5	1	2	0.22	0.42	3	10	33	2	70	34E	2	68	38E	38
151	5	2	5	0.58	0.99	9	15	20	2	52	49E	2	46	51E	89
152	8	1	15	1.48	2.97	9	43	16	2	60	22E	2	43	30E	258
153	8	1	3	0.79	1.58	11	34	41	3	25	17E	3	35	19E	162
156	7	1	9	0.89	1.78	15	58	20	2	0	53W	3	10	52W	164
159	7	1	4	0.42	0.79	23	10	29	2	70	146W	2	66	148W	72
159	7	2	2	0.22	0.42	20	19	56	2	33	126W	2	31	125W	37
162	2	1	2	0.22	0.42	22	2	36	3	17	142W	3	19	141W	33

NOTE - ONLY THE LAST FIVE FRAMES OF THE FWD PAN CAMERA AND THE LAST SEVEN FRAMES OF THE AFT PAN CAMERA FOR OPERATION 80-2-1 ARE CONTAINED IN THE B MISSION RECOVERY CAPSULE.

NOTE - OPERATION 82-2-2 IS THE CUT AND WRAP OPERATION WHICH OCCURRED AT THE TIME OF A MISSION RECOVERY.

NOTE - TELE DATA INDICATED THAT THE AFT PAN CAMERA RAN OUT OF FILM PRIOR TO OPERATION 159-7-0.

NOTE - WITH THE EXCEPTION OF THE ANOMALIES REPORTED ON THE A MISSION, TELE DATA INDICATE NORMAL SYSTEM PERFORMANCE.

A. 1834-2

B. DRY

C. PERFORMANCE ESTIMATE PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 186

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC	I/SEC	PCT RATE CALIB	REQD	
80	2	1	11	5 11 ON	2678	0.3461	0.02920	2.174	52.18	-8.7	-4.8
				OFF	32	0.3461	0.02920	2.174	52.18	-8.7	-3.3
81	0	0	3	7 11 ON	0	0.3161	0.02667	1.986	47.67	-8.7	-16.9
				OFF	24	0.3161	0.02667	1.986	47.67	-8.7	-17.9
✓82	5	1	14	7 11 ON	1150	0.3161	0.02667	1.986	47.67	-8.7	-5.9
				OFF	45	0.3161	0.02667	1.986	47.67	-8.7	-7.7
✓82	5	2	30	7 11 ON	1273	0.3161	0.02667	1.986	47.67	-8.7	-11.0
				OFF	130	0.3161	0.02667	1.986	47.67	-8.7	-16.5
✓84	5	1	53	2 11 ON	1573	0.3892	0.03284	2.445	58.69	-8.7	-0.2
				OFF	144	0.3892	0.03284	2.445	58.69	-8.7	-4.4
✓85	6	1	32	2 11 ON	1956	0.3892	0.03284	2.445	58.69	-8.7	-8.5
				OFF	78	0.3892	0.03284	2.445	58.69	-8.7	-8.9
✓85	6	2	14	2 11 ON	2236	0.3892	0.03284	2.445	58.69	-8.7	-7.4
				OFF	36	0.3892	0.03284	2.445	58.69	-8.7	-6.7
✓87	4	1	32	5 11 ON	1459	0.3461	0.02920	2.174	52.18	-8.7	-8.5
				OFF	221	0.3461	0.02920	2.174	52.18	-8.7	-16.3
✓88	2	0	16	5 11 ON	272	0.3461	0.02920	2.174	52.18	-8.7	27.4
				OFF	46	0.3461	0.02920	2.174	52.18	-8.7	26.5
✓88	2	1	21	5 11 ON	1263	0.3461	0.02920	2.174	52.18	-8.7	-1.9
				OFF	57	0.3461	0.02920	2.174	52.18	-8.7	-4.1
✓88	2	2	19	5 11 ON	1486	0.3461	0.02920	2.174	52.18	-8.7	-9.7
				OFF	52	0.3461	0.02920	2.174	52.18	-8.7	-11.5
✓88	2	3	13	5 11 ON	1517	0.3461	0.02920	2.174	52.18	-8.7	-14.3
				OFF	37	0.3461	0.02920	2.174	52.18	-8.7	-15.5
✓88	2	4	73	5 11 ON	2110	0.3461	0.02920	2.174	52.18	-8.7	-22.4
				OFF	199	0.3461	0.02920	2.174	52.18	-8.7	-19.1
✓90	3	1	54	2 11 ON	1923	0.3892	0.03284	2.445	58.69	-8.7	-8.3
				OFF	130	0.3892	0.03284	2.445	58.69	-8.7	-9.0
✓91	0	1	37	7 11 ON	1131	0.3161	0.02667	1.986	47.67	-8.7	-5.5
				OFF	111	0.3161	0.02667	1.986	47.67	-8.7	-10.0
✓91	0	2	12	7 11 ON	1342	0.3161	0.02667	1.986	47.67	-8.7	-14.2
				OFF	30	0.3161	0.02667	1.986	47.67	-8.7	-15.8
✓92	0	1	42	4 11 ON	2432	0.3833	0.03234	2.408	57.80	-2.9	-4.2
				OFF	110	0.3833	0.03234	2.408	57.80	-2.9	-0.4
✓95	2	1	19	3 11 ON	1819	0.3989	0.03366	2.506	60.15	-2.9	-4.0
				OFF	50	0.3989	0.03366	2.506	60.15	-2.9	-4.8
✓97	4	1	22	5 11 ON	1300	0.3519	0.02969	2.211	53.07	-2.9	-3.2
				OFF	63	0.3519	0.02969	2.211	53.07	-2.9	-5.5
✓95	5	1	35	6 11 ON	1394	0.3519	0.02969	2.211	53.07	-2.9	-4.5
				OFF	101	0.3519	0.02969	2.211	53.07	-2.9	-8.2
✓100	5	1	62	6 11 ON	1594	0.3519	0.02969	2.211	53.07	-2.9	-11.6
				OFF	174	0.3519	0.02969	2.211	53.07	-2.9	-16.6



✓ 101	7	1	51	6	11	ON	2678	0.3519	0.02969	2.211	53.87	-2.9	-3.6
						OFF	145	0.3519	0.02969	2.211	53.87	-2.9	3.0
✓ 102	5	1	16	4	11	ON	1248	0.3833	0.03234	2.408	57.80	-2.9	9.0
						OFF	43	0.3833	0.03234	2.408	57.80	-2.9	7.5
✓ 102	5	2	65	4	11	ON	1823	0.3833	0.03234	2.408	57.80	-2.9	-8.2
						OFF	169	0.3833	0.03234	2.408	57.80	-2.9	-10.3
✓ 103	4	1	72	3	11	ON	1696	0.3989	0.03366	2.506	60.15	-2.9	-1.2
						OFF	180	0.3989	0.03366	2.506	60.15	-2.9	-4.8
✓ 104	8	1	26	2	11	ON	1845	0.4137	0.03490	2.599	62.38	-2.9	-0.6
						OFF	65	0.4137	0.03490	2.599	62.38	-2.9	-1.5
✓ 104	8	2	45	2	11	ON	2246	0.4137	0.03490	2.599	62.38	-2.9	-0.9
						OFF	109	0.4137	0.03490	2.599	62.38	-2.9	1.3
✓ 105	5	1	11	2	11	ON	1912	0.4137	0.03490	2.599	62.38	-2.9	-1.6
						OFF	28	0.4137	0.03490	2.599	62.38	-2.9	-1.8
✓ 105	5	2	58	2	11	ON	2053	0.4137	0.03490	2.599	62.38	-2.9	-2.4
						OFF	139	0.4137	0.03490	2.599	62.38	-2.9	-1.6
✓ 107	5	1	20	7	11	ON	1246	0.3310	0.02793	2.088	49.91	-4.4	-5.4
						OFF	62	0.3310	0.02793	2.088	49.91	-4.4	-7.7
✓ 108	5	1	57	3	11	ON	2447	0.3930	0.03316	2.469	59.26	-4.4	-1.4
						OFF	127	0.3930	0.03316	2.469	59.26	-4.4	3.0
✓ 109	4	1	20	3	11	ON	2244	0.3930	0.03316	2.469	59.26	-4.4	-6.2
						OFF	52	0.3930	0.03316	2.469	59.26	-4.4	-5.3
✓ 109	4	2	24	3	11	ON	2649	0.3930	0.03316	2.469	59.26	-4.4	5.8
						OFF	63	0.3930	0.03316	2.469	59.26	-4.4	8.3
✓ 111	4	1	13	3	11	ON	1857	0.3930	0.03316	2.469	59.26	-4.4	-6.0
						OFF	36	0.3930	0.03316	2.469	59.26	-4.4	-6.5
✓ 114	7	1	36	6	11	ON	1393	0.3467	0.02925	2.178	52.28	-4.4	-6.2
						OFF	103	0.3467	0.02925	2.178	52.28	-4.4	-9.9
✓ 115	7	2	18	5	11	ON	2534	0.3624	0.03057	2.277	54.64	-4.4	-6.8
						OFF	52	0.3624	0.03057	2.277	54.64	-4.4	-4.8
✓ 116	7	1	13	5	11	ON	1643	0.3624	0.03057	2.277	54.64	-4.4	-9.8
						OFF	36	0.3624	0.03057	2.277	54.64	-4.4	-10.8
✓ 116	7	2	23	5	11	ON	2457	0.3624	0.03057	2.277	54.64	-4.4	-9.6
						OFF	66	0.3624	0.03057	2.277	54.64	-4.4	-7.3
✓ 116	7	3	21	5	11	ON	2596	0.3624	0.03057	2.277	54.64	-4.4	-4.4
						OFF	60	0.3624	0.03057	2.277	54.64	-4.4	-1.9
✓ 117	5	1	50	2	11	ON	1789	0.4075	0.03438	2.560	61.45	-4.4	-1.0
						OFF	140	0.4075	0.03438	2.560	61.45	-4.4	-3.1
✓ 117	5	2	50	2	11	ON	2043	0.4075	0.03438	2.560	61.45	-4.4	-3.8
						OFF	138	0.4075	0.03438	2.560	61.45	-4.4	-3.2
✓ 118	6	1	16	4	11	ON	1295	0.3776	0.03186	2.372	56.93	-4.4	5.6
						OFF	42	0.3776	0.03186	2.372	56.93	-4.4	4.2
✓ 118	6	2	50	4	11	ON	1817	0.3776	0.03186	2.372	56.93	-4.4	-9.6
						OFF	132	0.3776	0.03186	2.372	56.93	-4.4	-11.5
✓ 119	4	1	154	5	11	ON	1387	0.3671	0.03097	2.326	55.36	-3.1	-0.3
						OFF	413	0.3671	0.03097	2.326	55.36	-3.1	-12.4
✓ 120	9	1	14	3	11	ON	1770	0.3981	0.03359	2.501	60.03	-3.1	-3.0
						OFF	35	0.3981	0.03359	2.501	60.03	-3.1	-3.7
✓ 120	9	2	10	3	11	ON	2277	0.3981	0.03359	2.501	60.03	-3.1	-4.3
						OFF	51	0.3981	0.03359	2.501	60.03	-3.1	-3.3
✓ 120	9	3	20	3	11	ON	2365	0.3981	0.03359	2.501	60.03	-3.1	-2.4

						OFF	52	0.3981	0.83359	2.501	60.83	-3.1	-1.1	
✓	121	7	1	65	4	11	ON	2234	0.3825	0.83227	2.483	57.68	-3.1	-9.3
							OFF	169	0.3825	0.83227	2.483	57.68	-3.1	-5.6
✓	121	7	2	29	4	11	ON	2653	0.3825	0.83227	2.483	57.68	-3.1	3.2
							OFF	77	0.3825	0.83227	2.483	57.68	-3.1	6.3
✓	122	3	1	87	2	11	ON	2074	0.4128	0.83483	2.594	62.25	-3.1	-2.5
							OFF	192	0.4128	0.83483	2.594	62.25	-3.1	-2.8
✓	124	7	1	46	6	11	ON	2685	0.3512	0.82963	2.287	52.96	-3.1	-4.1
							OFF	130	0.3512	0.82963	2.287	52.96	-3.1	1.7
✓	125	2	1	16	4	11	ON	2297	0.3825	0.83227	2.483	57.68	-3.1	-8.2
							OFF	43	0.3825	0.83227	2.483	57.68	-3.1	-7.2
✓	125	2	2	32	4	11	ON	2667	0.3825	0.83227	2.483	57.68	-3.1	4.4
							OFF	85	0.3825	0.83227	2.483	57.68	-3.1	7.9
✓	127	4	6	15	2	11	ON	1962	0.4128	0.83483	2.594	62.25	-3.1	-2.8
							OFF	37	0.4128	0.83483	2.594	62.25	-3.1	-2.2
✓	132	2	1	35	5	11	ON	1684	0.3671	0.83097	2.386	55.36	-3.1	-2.3
							OFF	95	0.3671	0.83097	2.386	55.36	-3.1	-5.3
✓	133	2	1	14	2	11	ON	1857	0.4128	0.83483	2.594	62.25	-3.1	-7.8
							OFF	36	0.4128	0.83483	2.594	62.25	-3.1	-1.2
✓	133	2	2	57	2	11	ON	2589	0.4128	0.83483	2.594	62.25	-3.1	-2.3
							OFF	138	0.4128	0.83483	2.594	62.25	-3.1	-1.3
✓	134	4	1	15	5	11	ON	1540	0.3654	0.83083	2.296	55.10	-3.6	0.6
							OFF	42	0.3654	0.83083	2.296	55.10	-3.6	-2.8
✓	134	4	2	43	5	11	ON	1495	0.3654	0.83083	2.296	55.10	-3.6	-4.5
							OFF	117	0.3654	0.83083	2.296	55.10	-3.6	-8.1
✓	134	4	3	13	5	11	ON	1787	0.3654	0.83083	2.296	55.10	-3.6	-10.7
							OFF	37	0.3654	0.83083	2.296	55.10	-3.6	-11.6
✓	135	7	1	47	3	11	ON	1856	0.3963	0.83344	2.490	59.76	-3.6	-5.0
							OFF	118	0.3963	0.83344	2.490	59.76	-3.6	-6.3
✓	136	9	1	42	3	11	ON	1722	0.3963	0.83344	2.490	59.76	-3.6	-2.4
							OFF	119	0.3963	0.83344	2.490	59.76	-3.6	-4.7
✓	136	9	2	35	3	11	ON	1942	0.3963	0.83344	2.490	59.76	-3.6	-6.8
							OFF	87	0.3963	0.83344	2.490	59.76	-3.6	-6.6
✓	136	9	3	57	3	11	ON	2395	0.3963	0.83344	2.490	59.76	-3.6	-2.2
							OFF	124	0.3963	0.83344	2.490	59.76	-3.6	1.5
✓	137	8	1	23	6	11	ON	2455	0.3496	0.82950	2.197	52.72	-3.6	-12.9
							OFF	66	0.3496	0.82950	2.197	52.72	-3.6	-10.4
✓	137	8	2	52	6	11	ON	2735	0.3496	0.82950	2.197	52.72	-3.6	-2.6
							OFF	146	0.3496	0.82950	2.197	52.72	-3.6	4.0
✓	137	8	3	24	6	11	ON	2962	0.3496	0.82950	2.197	52.72	-3.6	7.5
							OFF	57	0.3496	0.82950	2.197	52.72	-3.6	10.0
✓	142	4	1	59	4	11	ON	2493	0.3887	0.83213	2.392	57.41	-3.6	-3.4
							OFF	155	0.3887	0.83213	2.392	57.41	-3.6	2.2
✓	141	6	1	53	5	11	ON	2642	0.3654	0.83083	2.296	55.10	-3.6	-2.1
							OFF	144	0.3654	0.83083	2.296	55.10	-3.6	4.0
✓	143	7	1	14	2	11	ON	2117	0.4128	0.83467	2.582	61.97	-3.6	-2.7
							OFF	36	0.4128	0.83467	2.582	61.97	-3.6	-2.8
✓	144	1	2	11	6	11	ON	2834	0.3496	0.82950	2.197	52.72	-3.6	1.8
							OFF	34	0.3496	0.82950	2.197	52.72	-3.6	3.3
✓	146	2	1	57	4	11	ON	1561	0.3837	0.83213	2.392	57.41	-3.6	-2.5
							OFF	131	0.3837	0.83213	2.392	57.41	-3.6	-6.0



✓149	6	1	18	4	11	ON	1382	0.3795	0.03202	2.385	57.23	-3.9	2.5
						OFF	58	0.3795	0.03202	2.385	57.23	-3.9	0.9
✓149	6	2	30	4	11	ON	1772	0.3795	0.03202	2.385	57.23	-3.9	-8.1
						OFF	80	0.3795	0.03202	2.385	57.23	-3.9	-9.5
✓149	6	3	12	4	11	ON	1902	0.3795	0.03202	2.385	57.23	-3.9	-10.2
						OFF	34	0.3795	0.03202	2.385	57.23	-3.9	-10.6
✓150	4	1	16	4	11	ON	1381	0.3795	0.03202	2.385	57.23	-3.9	2.5
						OFF	41	0.3795	0.03202	2.385	57.23	-3.9	1.2
✓150	4	2	14	4	11	ON	1757	0.3795	0.03202	2.385	57.23	-3.9	-7.8
						OFF	36	0.3795	0.03202	2.385	57.23	-3.9	-8.5
✓150	4	3	77	4	11	ON	1833	0.3795	0.03202	2.385	57.23	-3.9	-9.2
						OFF	202	0.3795	0.03202	2.385	57.23	-3.9	-11.2
✓151	8	1	14	4	11	ON	1468	0.3795	0.03202	2.385	57.23	-3.9	0.1
						OFF	38	0.3795	0.03202	2.385	57.23	-3.9	-1.1
✓151	8	2	34	4	11	ON	1747	0.3795	0.03202	2.385	57.23	-3.9	-7.5
						OFF	59	0.3795	0.03202	2.385	57.23	-3.9	-9.2
✓152	8	1	124	3	11	ON	1625	0.3950	0.03333	2.462	59.56	-3.9	-8.5
						OFF	258	0.3950	0.03333	2.462	59.56	-3.9	-5.6
✓153	3	1	52	8	11	ON	2912	0.3163	0.02669	1.987	47.69	-3.9	-4.8
						OFF	152	0.3163	0.02669	1.987	47.69	-3.9	3.8
✓155	7	1	67	5	11	ON	2542	0.3642	0.03073	2.289	54.92	-3.9	-6.4
						OFF	164	0.3642	0.03073	2.289	54.92	-3.9	0.8
✓150	7	1	26	5	11	ON	1481	0.3642	0.03073	2.289	54.92	-3.9	-5.8
						OFF	72	0.3642	0.03073	2.289	54.92	-3.9	-7.1
✓159	7	2	14	2	11	ON	2751	0.4096	0.03456	2.574	61.77	-3.9	-3.8
						OFF	37	0.4096	0.03456	2.574	61.77	-3.9	-3.8
✓160	2	1	11	6	11	ON	2811	0.3485	0.02940	2.189	52.55	-3.9	0.2
						OFF	33	0.3485	0.02940	2.189	52.55	-3.9	1.7

RATE ESTIMATE

AFT PAW CAMERA NUMBER 187

OP	NO	FF	R	A	DUR	INST	INST	SCAN	RATE	PCT	RATE		
						CPS	ANG VEL	R/SEC	I/SEC	CALIB	REQD		
80	2	1	12	5	11	ON	2698	0.3535	0.02983	2.221	53.30	-6.7	-2.0
						OFF	24	0.3231	0.02726	2.030	48.71	-6.7	-15.9
81	2	2	3	7	11	ON	12	0.3231	0.02726	2.030	48.71	-6.7	-14.9
						OFF	32	0.3535	0.02983	2.221	53.30	-6.7	-8.6
82	5	1	14	7	11	ON	1162	0.3231	0.02726	2.030	48.71	-6.7	-4.1
						OFF	45	0.3231	0.02726	2.030	48.71	-6.7	-5.9
82	5	2	40	7	11	ON	1285	0.3231	0.02726	2.030	48.71	-6.7	-9.1
						OFF	133	0.3231	0.02726	2.030	48.71	-6.7	-14.5
84	5	1	50	2	11	ON	1525	0.3975	0.03354	2.498	59.94	-6.7	1.5
						OFF	144	0.3975	0.03354	2.498	59.94	-6.7	-2.5
85	6	1	32	2	11	ON	1968	0.3975	0.03354	2.498	59.94	-6.7	-6.4
						OFF	78	0.3975	0.03354	2.498	59.94	-6.7	-6.7
85	6	2	14	2	11	ON	2248	0.3975	0.03354	2.498	59.94	-6.7	-4.9
						OFF	36	0.3975	0.03354	2.498	59.94	-6.7	-4.2
87	4	1	63	5	11	ON	1471	0.3535	0.02983	2.221	53.30	-6.7	-6.7
						OFF	221	0.3535	0.02983	2.221	53.30	-6.7	-14.2
80	2	2	17	5	11	ON	284	0.3535	0.02983	2.221	53.30	-6.7	28.7

					OFF	46	0.3535	0.02983	2.221	53.30	-6.7	27.8	
88	2	1	21	5	11	ON	1295	0.3535	0.02983	2.221	53.30	-6.7	-8.2
						OFF	57	0.3535	0.02983	2.221	53.30	-6.7	-2.3
88	2	2	19	5	11	ON	1498	0.3535	0.02983	2.221	53.30	-6.7	-7.8
						OFF	52	0.3535	0.02983	2.221	53.30	-6.7	-9.6
88	2	3	13	5	11	ON	1629	0.3535	0.02983	2.221	53.30	-6.7	-12.3
						OFF	37	0.3535	0.02983	2.221	53.30	-6.7	-13.5
88	2	4	74	5	11	ON	2122	0.3535	0.02983	2.221	53.30	-6.7	-19.7
						OFF	199	0.3535	0.02983	2.221	53.30	-6.7	-16.3
90	3	1	54	2	11	ON	1935	0.3975	0.03354	2.498	59.94	-6.7	-6.2
						OFF	130	0.3975	0.03354	2.498	59.94	-6.7	-6.7
91	8	1	38	7	11	ON	1143	0.3231	0.02726	2.030	48.71	-6.7	-3.7
						OFF	111	0.3231	0.02726	2.030	48.71	-6.7	-8.1
91	8	2	13	7	11	ON	1354	0.3231	0.02726	2.030	48.71	-6.7	-12.2
						OFF	38	0.3231	0.02726	2.030	48.71	-6.7	-13.8
92	9	1	43	4	11	ON	2444	0.3893	0.03285	2.446	58.71	-1.4	-2.2
						OFF	110	0.3893	0.03285	2.446	58.71	-1.4	1.6
95	2	1	20	3	11	ON	1831	0.4051	0.03418	2.545	61.09	-1.4	-2.6
						OFF	50	0.4051	0.03418	2.545	61.09	-1.4	-3.4
97	4	1	22	6	11	ON	1370	0.3575	0.03016	2.246	53.91	-1.4	-2.0
						OFF	63	0.3575	0.03016	2.246	53.91	-1.4	-4.3
98	5	1	36	6	11	ON	1426	0.3575	0.03016	2.246	53.91	-1.4	-3.3
						OFF	101	0.3575	0.03016	2.246	53.91	-1.4	-6.9
107	5	1	62	6	11	ON	1626	0.3575	0.03016	2.246	53.91	-1.4	-10.2
						OFF	174	0.3575	0.03016	2.246	53.91	-1.4	-15.1
101	7	1	52	5	11	ON	2690	0.3575	0.03016	2.246	53.91	-1.4	-1.4
						OFF	145	0.3575	0.03016	2.246	53.91	-1.4	5.1
102	5	1	16	4	11	ON	1260	0.3893	0.03285	2.446	58.71	-1.4	10.0
						OFF	43	0.3893	0.03285	2.446	58.71	-1.4	8.6
102	5	2	65	4	11	ON	1835	0.3893	0.03285	2.446	58.71	-1.4	-6.7
						OFF	169	0.3893	0.03285	2.446	58.71	-1.4	-8.7
103	4	1	72	3	11	ON	1708	0.4051	0.03418	2.545	61.09	-1.4	0.0
						OFF	100	0.4051	0.03418	2.545	61.09	-1.4	-3.4
104	5	1	27	2	11	ON	1857	0.4201	0.03545	2.640	63.35	-1.4	0.7
						OFF	65	0.4201	0.03545	2.640	63.35	-1.4	-0.1
104	5	2	46	2	11	ON	2250	0.4201	0.03545	2.640	63.35	-1.4	0.9
						OFF	109	0.4201	0.03545	2.640	63.35	-1.4	3.1
105	5	1	11	2	11	ON	1924	0.4201	0.03545	2.640	63.35	-1.4	-0.1
						OFF	28	0.4201	0.03545	2.640	63.35	-1.4	-0.4
105	5	2	50	2	11	ON	2065	0.4201	0.03545	2.640	63.35	-1.4	-0.8
						OFF	139	0.4201	0.03545	2.640	63.35	-1.4	0.1
107	5	1	21	7	11	ON	1258	0.3395	0.02865	2.133	51.20	-1.9	-3.2
						OFF	62	0.3395	0.02865	2.133	51.20	-1.9	-5.5
108	5	1	51	3	11	ON	2459	0.4029	0.03399	2.531	60.75	-1.9	1.5
						OFF	127	0.4029	0.03399	2.531	60.75	-1.9	5.8
109	4	1	20	3	11	ON	2255	0.4029	0.03399	2.531	60.75	-1.9	-3.4
						OFF	52	0.4029	0.03399	2.531	60.75	-1.9	-2.4
109	4	2	25	3	11	ON	2661	0.4029	0.03399	2.531	60.75	-1.9	8.6
						OFF	63	0.4029	0.03399	2.531	60.75	-1.9	11.0
111	4	1	14	3	11	ON	1869	0.4029	0.03399	2.531	60.75	-1.9	-3.5
						OFF	35	0.4029	0.03399	2.531	60.75	-1.9	-4.0

114	7	1	37	6	11	ON	1485	0.3555	0.03000	2.234	53.61	-1.9	-4.0
						OFF	183	0.3555	0.03000	2.234	53.61	-1.9	-7.5
115	7	2	19	5	11	ON	2546	0.3715	0.03135	2.334	56.02	-1.9	-3.7
						OFF	52	0.3715	0.03135	2.334	56.02	-1.9	-1.7
116	7	1	13	5	11	ON	1655	0.3715	0.03135	2.334	56.02	-1.9	-7.5
						OFF	36	0.3715	0.03135	2.334	56.02	-1.9	-8.4
116	7	2	24	5	11	ON	2469	0.3715	0.03135	2.334	56.02	-1.9	-6.5
						OFF	66	0.3715	0.03135	2.334	56.02	-1.9	-4.2
116	7	3	22	5	11	ON	2628	0.3715	0.03135	2.334	56.02	-1.9	-1.4
						OFF	68	0.3715	0.03135	2.334	56.02	-1.9	1.1
117	5	1	58	2	11	ON	1821	0.4178	0.03525	2.625	63.00	-1.9	1.2
						OFF	146	0.4178	0.03525	2.625	63.00	-1.9	-0.7
117	5	2	58	2	11	ON	2055	0.4178	0.03525	2.625	63.00	-1.9	-1.3
						OFF	138	0.4178	0.03525	2.625	63.00	-1.9	-0.5
118	6	1	15	4	11	ON	1327	0.3872	0.03267	2.433	58.38	-1.9	7.6
						OFF	42	0.3872	0.03267	2.433	58.38	-1.9	6.2
118	6	2	51	4	11	ON	1829	0.3872	0.03267	2.433	58.38	-1.9	-7.1
						OFF	132	0.3872	0.03267	2.433	58.38	-1.9	-8.9
119	4	1	154	5	11	ON	1399	0.3718	0.03138	2.336	56.07	-1.8	0.6
						OFF	413	0.3718	0.03138	2.336	56.07	-1.8	-11.2
120	9	1	14	3	11	ON	1782	0.4033	0.03403	2.534	60.81	-1.8	-1.9
						OFF	35	0.4033	0.03403	2.534	60.81	-1.8	-2.6
120	9	2	27	3	11	ON	2289	0.4033	0.03403	2.534	60.81	-1.8	-2.0
						OFF	51	0.4033	0.03403	2.534	60.81	-1.8	-1.7
120	9	3	21	3	11	ON	2377	0.4033	0.03403	2.534	60.81	-1.8	-0.8
						OFF	52	0.4033	0.03403	2.534	60.81	-1.8	0.6
121	7	1	65	4	11	ON	2246	0.3876	0.03270	2.435	58.44	-1.8	-7.7
						OFF	169	0.3876	0.03270	2.435	58.44	-1.8	-3.9
121	7	2	29	4	11	ON	2665	0.3876	0.03270	2.435	58.44	-1.8	5.0
						OFF	77	0.3876	0.03270	2.435	58.44	-1.8	8.1
122	3	1	82	2	11	ON	2086	0.4182	0.03529	2.628	63.26	-1.8	-1.2
						OFF	192	0.4182	0.03529	2.628	63.26	-1.8	0.7
124	7	1	46	6	11	ON	2697	0.3555	0.03003	2.236	53.66	-1.8	-2.2
						OFF	130	0.3555	0.03003	2.236	53.66	-1.8	3.6
125	2	1	16	4	11	ON	2329	0.3876	0.03270	2.435	58.44	-1.8	-6.5
						OFF	43	0.3876	0.03270	2.435	58.44	-1.8	-5.5
125	2	2	33	4	11	ON	2599	0.3876	0.03270	2.435	58.44	-1.8	6.2
						OFF	65	0.3876	0.03270	2.435	58.44	-1.8	9.6
127	4	1	15	2	11	ON	1974	0.4182	0.03529	2.628	63.26	-1.9	-8.8
						OFF	37	0.4182	0.03529	2.628	63.26	-1.8	-1.0
130	2	1	35	5	11	ON	1696	0.3718	0.03138	2.336	56.07	-1.8	-1.4
						OFF	95	0.3718	0.03138	2.336	56.07	-1.8	-4.4
133	2	1	15	2	11	ON	1869	0.4182	0.03529	2.628	63.26	-1.8	0.4
						OFF	36	0.4182	0.03529	2.628	63.26	-1.8	-0.1
133	2	2	58	2	11	ON	2121	0.4182	0.03529	2.628	63.26	-1.8	-1.0
						OFF	138	0.4182	0.03529	2.628	63.26	-1.8	0.2
134	4	1	15	5	11	ON	1352	0.3725	0.03143	2.340	56.17	-1.7	2.1
						OFF	42	0.3725	0.03143	2.340	56.17	-1.7	0.7
134	4	2	43	5	11	ON	1527	0.3725	0.03143	2.340	56.17	-1.7	-2.9
						OFF	117	0.3725	0.03143	2.340	56.17	-1.7	-6.4
134	4	3	13	5	11	ON	1719	0.3725	0.03143	2.340	56.17	-1.7	-8.9