

~~TOP SECRET~~

14-00000
14 000423710

[REDACTED]

CORONA "J"

FLIGHT DATA

[REDACTED]

1033-2

Declassified and Released by the N R O

In Accordance with E. O. 12958

on NOV 26 1997

~~TOP SECRET~~

4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-33

VEHICLE NO. 1638

MISSION NO. 1833-2

CAMERA NOS. 194/195

DATE 6-84-66

PAGE 1

SYSTEM NO. J-33
VEHICLE NO. 1630
MISSION NO. 1033-2
CAMERA NOS. 194/195

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PERFORMANCE ESTIMATE

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SYSTEM NO. J-33
VEHICLE NO. 1630
MISSION NO. 1033-2
CAMERA NOS. 194/195

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 194

SLAVE CAMERA SERIAL NO. 195

S/I -1 SERIAL NO. D91/105/109

S/I -2 SERIAL NO. D84/75/102

LAUNCH DATE 5-24-66

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 130)

PERIOD 88.826 MIN

ECCENTRICITY 0.00717

PERIGEE 100.450 NM

PERIGEE LAT. 63.744

APOGEE 151.460 NM

INCL. ANGLE 66.832

RECOVERY ORBIT NO. 178

RECOVERY DATE 6-04-66

SYSTEM NO. J-33
VEHICLE NO. 1638
MISSION NO. 1033-2
CAMERA NOS. 194/195

CYCLE PERIOD DATA

V/H RAMP SETTING LEVEL	AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORB CYCLE PERIOD-SEC NO.
			MASTER	SLAVE	MASTER	SLAVE	
3	8	1640	2.230	2.220	2.242	2.220	90
3	8	3095	2.633	2.610	2.660	2.640	96
3	8	2895	2.541	2.520	2.545	2.533	112
3	8	2895	2.541	2.520	2.570	2.560	128
2	8	3095	2.534	2.512	2.530	2.531	144
2	8	3095	2.534	2.512	2.590	2.520	160

NOTE

AN * OR -0 INDICATES NO DATA AVAILABLE.

B. DRY

C. PERFORMANCE ESTIMATE PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER		194													
OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM		
82	6	1	78	ON	1 39 6	57 59E	681881	622929	29	3	10	43	7 2	11443	
				OFF	1 48 56	66 44E	688158	621972	29	3	13	38	740	11618	
82	8	8	3	ON	2 54 9	174 15E	646861	669597	29	3	28	41	15 5	12521	
				OFF	2 53 0	175 58E	647881	671485	29	3	29	4	1513	12544	
83	4	1	54	ON	1 47 1	42 14E	599629	621422	29	4	41	50	730	16918	
				OFF	1 53 29	50 7E	681242	623897	29	4	43	53	8 4	17833	
83	4	2	22	ON	1 56 48	55 27E	682938	624856	29	4	44	59	826	17899	
				OFF	1 58 56	60 17E	684688	626588	29	4	45	58	846	17158	
84	4	1	117	ON	1 47 5	19 48E	599338	621113	29	6	10	38	729	22238	
				OFF	1 59 58	48 25E	685295	627381	29	6	15	2	856	22582	
85	4	1	19	ON	2 52 17	189 32E	648553	672182	29	7	55	40	1513	28548	
				OFF	2 49 44	112 46E	652554	676333	29	7	56	29	1527	28589	
86	4	1	11	ON	2 55 44	81 43E	642926	666344	29	9	23	16	1458	33796	
				OFF	2 54 17	84 8E	645237	668741	29	9	23	46	15 8	33826	
86	4	2	11	ON	2 41 53	97 52E	665888	689247	29	9	27	37	1559	34857	
				OFF	2 48 8	99 12E	667893	692249	29	9	28	7	16 4	34887	
87	4	1	45	ON	2 64 59	28 42E	624558	647286	29	18	47	41	1242	38861	
				OFF	2 61 58	44 8E	631918	654923	29	18	49	32	1345	38972	
87	4	2	16	ON	2 58 12	54 23E	638714	661974	29	18	51	9	1428	39869	
				OFF	2 56 19	58 11E	641829	665286	29	18	51	51	1444	39111	
87	4	3	11	ON	2 51 48	65 14E	649885	672651	29	18	53	22	1514	39282	
				OFF	2 58 15	67 12E	651458	675188	29	18	53	52	1522	39232	
87	4	4	11	ON	2 46 49	78 58E	656868	688881	29	18	54	56	1538	39296	
				OFF	2 45 13	72 31E	659418	683455	29	18	55	25	1545	39325	
88	3	1	121	ON	2 61 11	24 6E	633271	656326	29	12	18	41	1355	44321	
				OFF	2 47 17	48 2E	655965	679872	29	12	23	34	1535	44614	
98	3	2	22	ON	1 38 10	122 29W	598589	628343	29	15	8	39	658	54839	
				OFF	1 41 8	128 18W	597761	619485	29	15	1	38	7 8	54898	
96	2	1	23	ON	1 49 29	112 44E	595836	617488	29	23	56	31	727	86191	
				OFF	1 51 58	115 49E	596658	618332	29	23	57	18	748	86238	
96	2	8	15	ON	2 33 55	121 28W	675255	699888	38	8	17	29	1612	1849	
				OFF	2 31 26	119 53W	679788	784589	38	8	18	11	1618	1891	
98	2	1	15	ON	1 44 29	62 43E	594471	616872	38	2	52	28	7 3	18348	
				OFF	1 46 29	64 36E	594575	616179	38	2	53	4	711	18384	
98	2	2	27	ON	1 53 33	73 8E	596659	618342	38	2	55	17	747	18517	
				OFF	1 55 53	76 56E	597976	619788	38	2	56	5	8 3	18565	
99	4	1	54	ON	1 47 2	42 48E	594327	615922	38	4	21	57	712	15717	
				OFF	1 53 29	58 33E	596344	618815	38	4	23	59	746	15839	
99	4	2	22	ON	1 56 39	55 53E	598225	619967	38	4	25	5	8 8	15985	
				OFF	1 58 56	68 43E	688825	621834	38	4	25	56	828	15956	
188	4	1	117	ON	1 47 1	22 12E	594814	615598	38	5	58	41	711	21841	
				OFF	1 59 55	48 44E	688789	622544	38	5	55	5	838	21385	
181	4	1	19	ON	2 52 17	118 8E	644856	667516	38	7	35	48	1455	27348	
				OFF	2 49 46	113 11E	647917	671522	38	7	36	28	15 9	27388	

102 6 1	36 ON	2 55 41	82 16E	638558	661812	30 9 3 15	1432 32595
	OFF	2 51 13	88 57E	645461	668974	30 9 4 45	15 8 32685
102 6 2	11 ON	2 41 58	98 23E	659999	684858	30 9 7 36	1541 32856
	OFF	2 48 8	99 41E	662731	686893	30 9 8 6	1546 32886
102 6 3	56 ON	2 26 28	107 57E	686666	711729	30 9 11 56	1623 33116
	OFF	2 17 13	112 11E	785386	731873	30 9 14 28	1643 33268
103 6 1	104 ON	2 64 59	29 15E	620342	642913	30 10 27 36	1224 37656
	OFF	2 56 18	58 43E	637374	668583	30 10 31 45	1426 37985
103 6 2	12 ON	2 51 46	65 46E	644374	667845	30 10 33 17	1456 37997
	OFF	2 50 12	67 45E	646768	678329	30 10 33 47	15 4 38827
103 6 3	11 ON	2 46 47	71 29E	651984	675742	30 10 34 58	1520 38898
	OFF	2 45 10	73 3E	654489	678341	30 10 35 19	1527 38119
104 3 1	128 ON	2 61 9	24 44E	628963	651856	30 11 58 32	1337 43112
	OFF	2 47 14	48 35E	651844	674767	30 12 3 25	1517 43485
112 2 1	28 ON	1 49 32	113 18E	614819	636351	30 23 36 57	7 9 85817
	OFF	1 52 1	116 15E	613284	635586	30 23 37 44	722 85864
112 7 8	16 ON	2 33 42	120 58W	669974	694488	30 23 57 57	1554 86277
	OFF	2 31 11	119 22W	674721	699334	30 23 58 39	16 1 86319
114 2 1	15 ON	1 44 34	63 6E	615972	638378	31 2 33 12	645 9192
	OFF	1 46 34	64 59E	614881	637246	31 2 33 48	653 9228
114 2 2	21 ON	1 53 38	73 33E	612583	634862	31 2 36 2	738 9362
	OFF	1 55 58	77 23E	612375	634646	31 2 36 58	746 9418
115 4 1	53 ON	1 47 5	42 59E	613741	636263	31 4 2 58	654 14578
	OFF	1 53 29	50 49E	611763	634811	31 4 4 52	728 14692
115 4 2	22 ON	1 56 41	56 13E	611556	633796	31 4 5 58	758 14758
	OFF	1 58 59	61 6E	611775	634824	31 4 6 58	811 14818
117 4 1	19 ON	2 52 14	110 16E	648883	663394	31 7 16 51	1437 26211
	OFF	2 49 42	113 28E	643647	667892	31 7 17 48	1451 26268
118 3 1	35 ON	2 55 44	82 28E	634787	657899	31 8 44 32	1413 31472
	OFF	2 51 15	89 3E	648999	664344	31 8 46 2	1442 31562
118 3 2	11 ON	2 41 49	96 32E	655158	679834	31 8 48 54	1523 31734
	OFF	2 48 5	99 53E	657991	681974	31 8 49 24	1528 31764
119 3 1	14 ON	2 63 7	40 5E	623688	646381	31 10 18 19	1258 36619
	OFF	2 62 1	44 29E	625395	648154	31 10 18 54	13 8 36654
119 3 2	17 ON	2 58 13	54 58E	638878	653843	31 10 12 38	1352 36758
	OFF	2 56 28	58 45E	633483	656546	31 10 13 12	14 8 36792
119 3 3	12 ON	2 46 52	71 31E	646933	678588	31 10 16 16	15 2 36976
	OFF	2 45 12	73 8E	649458	673128	31 10 16 46	15 9 37886
128 5 1	84 ON	2 57 15	34 29E	631722	654718	31 11 41 43	1359 42183
	OFF	2 47 12	48 42E	646838	669572	31 11 45 2	1459 42382
127 2 1	13 ON	1 34 1	120 35E	628571	643149	31 21 44 11	546 78251
	OFF	1 32 4	121 43E	618843	648526	31 21 44 45	551 78285
128 2 1	19 ON	1 49 28	113 7E	685855	627852	31 23 18 39	651 83919
	OFF	1 51 53	116 6E	684487	626462	31 23 19 25	7 3 83965
128 4 2	10 ON	2 33 51	120 52W	663488	687678	31 23 39 38	1536 85178
	OFF	2 31 21	119 25W	668889	692452	31 23 40 28	1542 85228
130 6 1	78 ON	1 36 38	57 4E	612329	634598	1 2 12 29	6 8 7949
	OFF	1 46 38	65 7E	685545	627568	1 2 15 24	635 8124
130 6 2	21 ON	1 53 39	73 38E	683716	625663	1 2 17 37	712 8257
	OFF	1 56 1	77 32E	683658	625683	1 2 18 26	728 8386
131 4 1	53 ON	1 47 5	43 5E	684881	626871	1 3 44 21	636 13461

			OFF	1	53	29	58	54E	683363	625297	1	3	46	22	718	13582	
131	4	2	23 ON	1	56	42	56	19E	683381	625316	1	3	47	29	732	13649	
			OFF	1	58	58	61	18E	683761	625718	1	3	48	21	753	13781	
132	4	1	116 ON	1	47	4	28	34E	684417	626398	1	5	13	9	635	18789	
			OFF	1	59	57	41	8E	683775	625725	1	5	17	33	8	2	19853
133	4	1	19 ON	2	52	13	118	24E	633784	656858	1	6	58	13	1419	25893	
			OFF	2	49	42	113	35E	637238	668433	1	6	59	1	1433	25141	
134	4	1	12 ON	2	55	38	82	39E	629189	652891	1	8	25	52	1356	38352	
			OFF	2	54	12	85	1E	631112	654886	1	8	26	22	14	6	38382
134	4	2	12 ON	2	41	46	98	43E	648764	672481	1	8	38	13	15	5	38613
			OFF	2	48	1	188	4E	651489	675227	1	8	38	43	1511	38643	
135	4	1	47 ON	2	64	56	29	51E	615898	637472	1	9	58	19	1149	35419	
			OFF	2	61	54	44	57E	628499	643875	1	9	52	18	1252	35538	
135	4	2	17 ON	2	58	6	55	23E	625891	648669	1	9	53	46	1335	35626	
			OFF	2	56	12	59	18E	628438	651311	1	9	54	28	1351	35668	
135	4	3	12 ON	2	51	39	66	12E	634538	657632	1	9	56	8	1428	35768	
			OFF	2	58	6	68	9E	636662	659844	1	9	56	38	1429	35798	
135	4	4	12 ON	2	46	41	71	52E	641436	664797	1	9	57	32	1445	35852	
			OFF	2	45	1	73	27E	643845	667296	1	9	58	2	1451	35882	
136	5	1	83 ON	2	57	5	34	59E	627235	658863	1	11	22	55	1342	48975	
			OFF	2	47	2	49	2E	648919	664268	1	11	26	13	1442	41173	
144	2	1	27 ON	1	49	23	113	21E	597253	618958	1	22	59	9	632	82749	
			OFF	1	51	49	116	22E	597182	618881	1	22	59	55	645	82795	
144	4	8	15 ON	2	33	58	128	36E	659432	683478	1	23	28	8	1517	84888	
			OFF	2	31	29	119	9E	663888	688881	1	23	28	58	1524	84858	
146	2	1	15 ON	1	44	28	63	27E	597879	618778	2	1	55	8	6	8	6988
			OFF	1	46	26	65	19E	596483	618159	2	1	55	44	617	6944	
146	2	2	21 ON	1	53	28	73	45E	595958	617686	2	1	57	57	652	7877	
			OFF	1	55	51	77	38E	596345	618816	2	1	58	46	7	9	7126
147	4	1	54 ON	1	46	57	43	28E	596289	617875	2	3	24	37	618	12277	
			OFF	1	53	23	51	18E	595798	617448	2	3	26	39	651	12399	
147	4	2	23 ON	1	56	35	56	38E	596389	618862	2	3	27	46	713	12466	
			OFF	1	58	54	61	23E	597281	618984	2	3	28	38	734	12518	
149	4	1	19 ON	2	52	26	118	41E	629981	652829	2	6	38	21	14	1	23981
			OFF	2	49	49	113	52E	633299	656355	2	6	39	9	1414	23949	
158	3	1	37 ON	2	55	49	82	46E	624921	647663	2	8	5	54	1337	29154	
			OFF	2	51	21	89	32E	638888	653853	2	8	7	24	14	5	29244
158	3	2	12 ON	2	41	56	99	2E	644128	667591	2	8	18	16	1446	29416	
			OFF	2	48	11	188	24E	646771	678333	2	8	18	47	1452	29447	
151	3	1	14 ON	2	63	8	46	34E	614149	636487	2	9	31	33	1213	34293	
			OFF	2	62	2	44	57E	615939	638344	2	9	32	7	1231	34327	
151	3	2	17 ON	2	58	16	55	28E	621351	643959	2	9	33	44	1315	34424	
			OFF	2	56	23	59	17E	623873	646575	2	9	34	26	1331	34466	
151	3	3	12 ON	2	46	57	72	4E	636498	659674	2	9	37	29	1425	34649	
			OFF	2	45	18	73	48E	638838	662893	2	9	37	59	1432	34679	
152	3	1	25 ON	2	61	13	25	15E	618944	639387	2	11	1	14	1242	39674	
			OFF	2	47	18	49	15E	635651	658795	2	11	6	7	1423	39967	
168	2	1	28 ON	1	49	29	114	6E	592293	613813	2	22	38	38	615	81518	
			OFF	1	51	56	117	6E	592334	613855	2	22	39	24	627	81564	
168	4	8	16 ON	2	33	52	119	56E	652551	676338	2	22	59	35	1459	82775	
			OFF	2	31	22	118	29E	656678	688684	2	23	8	17	15	6	82817

162	2	1	15	ON	1	44	27	64	5E	592235	613753	3	1	34	26	558	5666	
				OFF	1	46	24	65	54E	591888	613318	3	1	35	1	558	5781	
162	2	2	21	ON	1	53	29	74	25E	591761	613268	3	1	37	15	634	5835	
				OFF	1	55	53	78	28E	592383	613824	3	1	38	4	651	5884	
163	4	1	54	ON	1	46	58	44	1E	591388	612791	3	3	3	52	6	11832	
				OFF	1	53	22	51	48E	591374	612859	3	3	5	53	633	11153	
163	4	2	23	ON	1	56	35	57	18E	592171	613686	3	3	7	8	655	11228	
				OFF	1	58	53	62	8E	593184	614655	3	3	7	52	715	11272	
164	4	1	117	ON	1	46	56	21	32E	598984	612371	3	4	32	31	558	16351	
				OFF	1	59	49	41	55E	593267	614823	3	4	36	54	724	16614	
165	4	1	19	ON	2	52	28	111	11E	624591	647328	3	6	17	24	1342	22644	
				OFF	2	49	56	114	25E	627798	658639	3	6	18	13	1355	22693	
166	3	1	36	ON	2	55	55	83	18E	619926	642488	3	7	44	53	1318	27893	
				OFF	2	51	28	98	5E	625521	648285	3	7	46	23	1346	27983	
166	3	2	11	ON	2	42	5	99	37E	637835	661861	3	7	49	14	1427	28154	
				OFF	2	48	21	128	59E	648285	663683	3	7	49	44	1433	28184	
167	3	1	14	ON	2	63	11	41	4E	689688	631776	3	9	18	28	1154	33828	
				OFF	2	62	6	45	26E	611331	633563	3	9	11	2	1212	33862	
167	3	2	17	ON	2	58	21	56	8E	616589	638935	3	9	12	39	1256	33159	
				OFF	2	56	28	59	58E	618986	641423	3	9	13	21	1312	33281	
167	3	3	11	ON	2	47	3	72	42E	638887	653769	3	9	16	25	14	7	33385
				OFF	2	45	24	74	18E	632978	656821	3	9	16	55	1414	33415	
168	3	1	125	ON	2	61	15	25	51E	612272	634548	3	18	48	4	1223	38484	
				OFF	2	47	23	49	58E	638882	653817	3	18	44	57	14	4	38697
175	2	1	14	ON	1	29	34	122	6E	593235	614789	3	28	42	39	451	74559	
				OFF	1	31	38	123	15E	591483	612888	3	28	43	13	456	74593	
176	3	1	57	ON	1	26	34	98	7E	595552	617192	3	22	18	27	442	79827	
				OFF	1	34	32	182	31E	588475	689851	3	22	12	39	5	2	79959
176	3	2	25	ON	1	49	5	114	38E	583728	684927	3	22	16	54	554	88214	
				OFF	1	51	38	117	26E	583984	685118	3	22	17	48	6	7	88268
176	4	8	15	ON	2	34	21	119	22W	643564	667885	3	22	37	58	1448	81478	
				OFF	2	31	53	117	54W	647455	671842	3	22	38	32	1446	81512	

OPERATIONAL SUMMARY

AFT	POS	CAMERA	NUMBER	195														
OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM					
82	6	2	21	ON	1	55	44	76	12E	682988	624988	29	3	16	4	828	11764	
				OFF	1	57	57	88	38E	684581	626478	29	3	16	52	838	11812	
82	8	8	3	ON	2	54	14	174	4E	647829	678688	29	3	28	53	15	5	12533
				OFF	2	53	5	175	47E	648865	672586	29	3	29	16	1512	12556	
83	4	1	54	ON	1	46	59	42	9E	599691	621487	29	4	42	2	738	16922	
				OFF	1	53	27	58	1E	621519	623384	29	4	44	5	8	4	17845
83	4	2	23	ON	1	56	33	55	21E	623318	625242	29	4	45	11	826	17111	
				OFF	1	58	54	68	9E	685948	627837	29	4	46	2	846	17162	
84	4	1	115	ON	1	47	3	19	45E	599397	621182	29	6	18	58	729	22258	
				OFF	1	59	56	48	17E	685768	627792	29	6	15	14	856	22514	
85	4	1	19	ON	2	52	22	179	22E	649546	673212	29	7	55	52	1513	28552	
				OFF	2	49	54	112	35E	653587	677485	29	7	56	41	1526	28681	
86	4	1	12	ON	2	55	48	61	32E	643867	667328	29	9	23	28	1449	33888	
				OFF	2	54	22	63	56E	646288	669741	29	9	23	58	1459	33838	

86	4	2	11	ON	2	42	8	97	42E	666164	698455	29	9	27	49	1558	34869	
				OFF	2	48	16	99	3E	669889	693498	29	9	28	19	16	4	34899
87	4	1	46	ON	2	65	8	28	29E	625341	648899	29	18	47	53	1241	38873	
				OFF	2	62	8	43	46E	632765	655882	29	18	49	44	1344	38984	
87	4	2	16	ON	2	58	16	54	11E	639628	662913	29	18	51	21	1427	39881	
				OFF	2	56	23	58	8E	642762	666173	29	18	52	3	1443	39123	
87	4	3	11	ON	2	51	53	65	4E	658884	673687	29	18	53	34	1513	39214	
				OFF	2	58	28	67	2E	652472	676249	29	18	54	4	1522	39244	
87	4	4	11	ON	2	46	55	78	48E	657938	681928	29	18	55	8	1538	39388	
				OFF	2	45	19	72	21E	668522	684688	29	18	55	37	1544	39337	
88	3	1	122	ON	2	61	14	23	53E	634131	657219	29	12	18	53	1354	44333	
				OFF	2	47	23	47	52E	657833	688981	29	12	23	46	1535	44626	
98	3	8	22	ON	1	38	8	122	33W	598344	628898	29	15	8	51	658	54851	
				OFF	1	41	6	128	23W	597634	619353	29	15	1	42	659	54182	
96	2	1	27	ON	1	49	28	112	39E	596818	617677	29	23	56	43	727	86283	
				OFF	1	51	57	115	44E	596911	618684	29	23	57	38	748	86258	
96	2	8	15	ON	2	34	4	121	29W	676546	781228	38	8	17	41	1611	1861	
				OFF	2	31	35	128	1W	681858	785981	38	8	18	23	1618	1183	
98	2	1	15	ON	1	44	28	62	39E	594483	616885	38	2	52	48	7	3	18368
				OFF	1	46	27	64	31E	594658	616266	38	2	53	16	711	18396	
98	2	2	27	ON	1	53	32	73	2E	596971	618666	38	2	55	29	747	18529	
				OFF	1	55	51	76	58E	598357	628184	38	2	56	17	8	3	18577
99	4	1	54	ON	1	47	8	42	35E	594432	616832	38	4	22	9	712	15729	
				OFF	1	53	27	58	28E	596657	618348	38	4	24	11	745	15851	
99	4	2	23	ON	1	56	37	55	46E	598631	628388	38	4	25	17	8	8	15917
				OFF	1	58	54	68	36E	628495	622322	38	4	26	8	828	15968	
188	4	1	118	ON	1	47	8	28	7E	594123	615711	38	5	58	53	711	21853	
				OFF	1	59	53	48	36E	681289	623862	38	5	55	17	837	21317	
181	4	1	15	ON	2	52	22	189	49E	645823	668528	38	7	35	52	1455	27352	
				OFF	2	49	51	113	1E	648928	672563	38	7	36	48	15	8	27488
182	6	1	38	ON	2	55	45	82	5E	639478	662766	38	9	3	27	1431	32687	
				OFF	2	51	18	88	47E	646442	669991	38	9	4	57	1459	32697	
182	6	2	11	ON	2	41	57	98	13E	661125	685226	38	9	7	48	1548	32868	
				OFF	2	48	15	99	32E	663986	688891	38	9	8	18	1546	32898	
182	6	3	56	ON	2	26	37	187	48E	688888	713284	38	9	12	8	1623	33128	
				OFF	2	17	24	112	2E	786923	732758	38	9	14	48	1642	33288	
183	6	1	185	ON	2	65	8	29	2E	621123	643722	38	18	27	48	1223	37668	
				OFF	2	56	22	58	32E	638285	661528	38	18	31	57	1425	37917	
183	6	2	12	ON	2	51	51	65	36E	645344	668852	38	18	33	29	1455	38889	
				OFF	2	53	17	67	35E	647768	671359	38	18	33	59	15	4	38839
183	6	3	11	ON	2	46	53	71	28E	653827	676824	38	18	35	2	1528	38182	
				OFF	2	45	16	72	54E	655557	679449	38	18	35	31	1526	38131	
184	3	1	121	ON	2	61	11	24	32E	629889	652734	38	11	58	44	1336	43124	
				OFF	2	47	28	48	25E	652878	675839	38	12	3	37	1517	43417	
112	2	1	27	ON	1	46	28	113	3E	613774	636898	38	23	37	9	7	9	85829
				OFF	1	51	58	116	8E	613844	635348	38	23	37	56	722	85876	
112	7	2	18	ON	2	33	58	128	56W	671326	695811	38	23	58	9	1554	86289	
				OFF	2	31	19	119	38W	676146	788812	38	23	58	51	16	8	86331
114	2	1	15	ON	1	44	31	62	59E	615574	637964	31	2	33	24	645	9284	
				OFF	1	46	31	64	52E	614557	636989	31	2	34	8	653	9248	
114	2	2	21	ON	1	53	35	73	26E	612581	634777	31	2	36	14	729	9374	

			OFF	1	55	56	77	16E	612369	634648	31	2	37	2	745	9422	
115	4	1	ON	1	47	2	42	53E	613439	635758	31	4	3	2	654	14582	
			OFF	1	53	26	58	42E	611688	633926	31	4	5	4	727	14784	
115	4	2	ON	1	56	39	56	5E	611579	633821	31	4	6	18	758	14778	
			OFF	1	58	56	68	57E	611872	634125	31	4	7	2	818	14822	
116	4	1	ON	1	47	4	28	25E	612537	634814	31	5	31	55	653	19915	
			OFF	1	59	56	48	56E	611336	633568	31	5	36	19	819	28179	
117	4	1	ON	2	52	18	118	6E	648964	664388	31	7	17	3	1437	26223	
			OFF	2	49	47	113	18E	644588	668868	31	7	17	52	1458	26272	
118	3	1	ON	2	55	48	82	18E	635592	658734	31	8	44	44	1413	31484	
			OFF	2	51	28	88	53E	641988	665287	31	8	46	14	1441	31574	
118	3	2	ON	2	41	55	98	24E	656296	688216	31	8	49	6	1522	31746	
			OFF	2	42	11	99	44E	659175	683283	31	8	49	36	1528	31776	
119	3	1	ON	2	63	9	39	53E	624233	646958	31	18	18	31	1249	36631	
			OFF	2	62	2	44	16E	626852	648836	31	18	11	6	13	8	36666
119	3	2	ON	2	58	16	54	47E	631631	654625	31	18	12	42	1351	36762	
			OFF	2	56	24	58	35E	634288	657373	31	18	13	24	14	7	36884
119	3	3	ON	2	46	58	71	22E	647958	671556	31	18	16	28	15	1	36988
			OFF	2	45	18	72	59E	658516	674218	31	18	16	58	15	8	37818
126	5	1	ON	2	57	19	34	19E	632582	655528	31	11	41	55	1358	42115	
			OFF	2	47	17	48	32E	647852	678625	31	11	45	14	1459	42314	
127	2	1	ON	1	29	57	128	38E	619628	642171	31	21	44	23	546	78263	
			OFF	1	32	P	121	38E	617187	639638	31	21	44	57	551	78297	
126	2	1	ON	1	49	26	113	1E	684872	626863	31	23	18	51	658	83931	
			OFF	1	51	5P	116	8E	684385	626357	31	23	19	37	7	3	83977
128	4	8	ON	2	33	58	121	1W	664886	689846	31	23	39	58	1535	85198	
			OFF	2	31	29	119	33W	669484	693988	31	23	48	32	1542	85232	
130	6	1	ON	1	36	35	56	59E	611669	633913	1	2	12	41	6	8	7961
			OFF	1	46	36	65	1E	685265	627269	1	2	15	36	635	8136	
132	6	2	ON	1	53	37	73	32E	683673	625619	1	2	17	49	711	8269	
			OFF	1	55	59	77	26E	683698	625636	1	2	18	38	728	8318	
131	4	1	ON	1	47	3	42	59E	684628	626689	1	3	44	33	636	13473	
			OFF	1	53	27	58	48E	683323	625256	1	3	46	34	7	9	13594
131	4	2	ON	1	56	48	56	12E	683445	625382	1	3	47	41	732	13661	
			OFF	1	58	56	61	3E	683896	625858	1	3	48	33	752	13713	
132	4	1	ON	1	47	2	28	29E	684173	626137	1	5	13	21	635	18881	
			OFF	1	59	55	41	1E	683949	625985	1	5	17	45	8	1	19865
133	4	1	ON	2	52	17	118	15E	634641	657747	1	6	58	25	1419	25185	
			OFF	2	49	47	113	26E	638142	661388	1	6	59	13	1432	25153	
134	4	1	ON	2	55	42	82	29E	629975	652986	1	8	26	4	1355	38364	
			OFF	2	54	16	84	52E	631927	654931	1	8	26	34	14	5	38394
134	4	2	ON	2	41	52	98	35E	649857	673534	1	8	38	25	15	4	38625
			OFF	2	42	8	99	56E	652623	676484	1	8	38	55	1518	38655	
135	4	1	ON	2	64	57	29	39E	615659	638854	1	9	58	31	1148	35431	
			OFF	2	61	56	44	46E	621149	643758	1	9	52	22	1251	35542	
135	4	2	ON	2	58	9	55	13E	626625	649431	1	9	53	58	1334	35638	
			OFF	2	56	15	59	2E	629211	652114	1	9	54	48	1358	35688	
135	4	3	ON	2	51	44	66	2E	635398	658533	1	9	56	12	1428	35772	
			OFF	2	53	18	68	8E	637563	668779	1	9	56	42	1428	35882	
135	4	4	ON	2	46	46	71	43E	642411	665889	1	9	57	44	1444	35864	
			OFF	2	45	7	73	19E	644857	668347	1	9	58	14	1451	35894	

136	5	1	84	ON	2	57	8	34	49E	627991	658848	1	11	23	7	1342	48987	
				OFF	2	47	7	48	54E	641884	665262	1	11	26	25	1441	41185	
144	2	1	28	ON	1	49	21	113	16E	597184	618887	1	22	59	21	632	82761	
				OFF	1	51	47	116	16E	597111	618811	1	23	8	7	645	82887	
144	4	8	15	ON	2	34	5	128	44W	668782	684787	1	23	28	28	1517	84828	
				OFF	2	31	36	119	17W	665131	689383	1	23	21	2	1523	84862	
146	2	1	15	ON	1	44	26	63	22E	596852	618542	2	1	55	28	6	8	6928
				OFF	1	46	26	65	15E	596325	617995	2	1	55	56	616	6956	
146	2	2	21	ON	1	53	27	73	48E	596822	617681	2	1	58	9	652	7889	
				OFF	1	55	58	77	32E	596489	618166	2	1	58	58	7	8	7138
147	4	1	54	ON	1	46	55	43	15E	596878	617731	2	3	24	49	617	12289	
				OFF	1	53	22	51	5E	595867	617528	2	3	26	51	651	12411	
147	4	2	23	ON	1	56	34	56	25E	596555	618235	2	3	27	58	713	12478	
				OFF	1	58	52	61	16E	597434	619146	2	3	28	58	733	12538	
149	4	1	18	ON	2	52	24	118	32E	638751	653712	2	6	38	33	14	8	23913
				OFF	2	49	54	113	43E	634198	657287	2	6	39	21	1414	23961	
150	3	1	37	ON	2	55	52	82	37E	625781	648472	2	8	6	6	1336	29166	
				OFF	2	51	25	89	23E	631751	654749	2	8	7	36	14	4	29256
150	3	2	12	ON	2	42	1	98	54E	645183	668685	2	8	18	28	1445	29428	
				OFF	2	48	17	108	16E	647865	671468	2	8	18	59	1451	29459	
151	3	1	14	ON	2	63	18	48	24E	614783	637144	2	9	31	45	1213	34385	
				OFF	2	62	4	44	46E	616597	639827	2	9	32	19	1231	34339	
151	3	2	17	ON	2	58	19	55	19E	622881	644716	2	9	33	56	1315	34436	
				OFF	2	56	26	59	8E	624637	647368	2	9	34	38	1338	34478	
151	3	3	12	ON	2	47	2	71	55E	637441	668652	2	9	37	41	1425	34661	
				OFF	2	45	23	73	32E	639886	663186	2	9	38	11	1432	34691	
152	3	1	125	ON	2	61	15	25	5E	617614	648882	2	11	1	26	1241	39686	
				OFF	2	47	22	49	7E	636581	659768	2	11	6	19	1422	39979	
160	2	1	28	ON	1	49	26	114	1E	592276	613795	2	22	38	58	614	81538	
				OFF	1	51	55	117	3E	592398	613914	2	22	39	36	627	81576	
162	4	8	16	ON	2	33	58	128	4W	653741	677564	2	22	59	47	1459	82787	
				OFF	2	31	29	118	36W	657928	681988	2	23	8	29	15	5	82829
162	2	1	15	ON	1	44	25	64	8E	592864	613575	3	1	34	38	558	5678	
				OFF	1	46	22	65	58E	591762	613199	3	1	35	13	558	5713	
162	2	2	21	ON	1	53	27	74	28E	591871	613375	3	1	37	27	634	5847	
				OFF	1	55	52	78	14E	592488	614886	3	1	38	16	651	5896	
163	4	1	54	ON	1	46	57	43	57E	591224	612784	3	3	4	4	559	11844	
				OFF	1	53	21	51	43E	591484	612973	3	3	6	5	632	11165	
163	4	2	23	ON	1	56	34	57	5E	592369	613892	3	3	7	12	655	11232	
				OFF	1	58	51	61	55E	593364	614924	3	3	8	4	715	11284	
165	4	1	19	ON	2	52	31	111	3E	625385	648144	3	6	17	36	1341	22656	
				OFF	2	58	8	114	17E	628627	651588	3	6	18	25	1355	22785	
166	3	1	36	ON	2	55	58	83	18E	628662	643244	3	7	45	5	1317	27985	
				OFF	2	51	31	89	57E	626329	649123	3	7	46	35	1346	27995	
166	3	2	11	ON	2	42	12	99	38E	638817	662888	3	7	49	26	1427	28166	
				OFF	2	48	26	106	51E	641383	664659	3	7	49	56	1433	28196	
167	3	1	14	ON	2	63	13	48	54E	618222	632413	3	9	18	48	1154	33848	
				OFF	2	62	8	45	16E	611964	634228	3	9	11	14	1212	33874	
167	3	2	17	ON	2	58	23	55	51E	617284	639656	3	9	12	51	1256	33171	
				OFF	2	56	31	59	42E	619638	642174	3	9	13	33	1312	33213	
167	3	3	11	ON	2	47	7	72	34E	631698	654685	3	9	16	37	14	6	33397

			OFF 2 45 28	74 10E	633891	656968	3 9 17	7 1413	33427
168	3 1	125	ON 2 61 17	25 42E	612919	635211	3 18 48	16 1222	38416
			OFF 2 47 24	49 50E	638956	653924	3 18 45	9 14 4	38789
175	2 1	14	ON 1 29 32	122 2E	592549	614877	3 28 42	51 458	74571
			OFF 1 31 36	123 11E	598888	612263	3 28 43	25 455	74685
176	3 1	57	ON 1 26 33	98 3E	594742	616353	3 22 18	39 442	79839
			OFF 1 34 38	182 27E	587991	609349	3 22 12	51 5 2	79971
176	3 2	28	ON 1 49 4	114 26E	583749	604949	3 22 17	6 554	88226
			OFF 1 51 29	117 22E	583996	605286	3 22 17	52 6 7	88272
176	4 8	15	ON 2 34 27	119 29W	644697	668181	3 22 38	2 1439	81482
			OFF 2 31 59	118 1W	648644	672275	3 22 38	44 1446	81524

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO 194 R.2000 SLIT W/21 FILTER 3484 FILM

OPN	NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
82	6 1	75	286.3	ON 309	25.8	51.1	12.12	12.56	11.96	11.36
				OFF 315	32.9	56.6	12.15	12.66	12.86	11.46
82	6 2	3	7.9	ON 248	41.9	118.9	11.81	12.73	12.13	11.53
				OFF 248	41.3	112.2	11.81	12.73	12.13	11.53
83	4 1	4	142.2	ON 315	31.4	55.1	12.15	12.64	12.84	11.44
				OFF 316	36.8	68.8	12.16	12.69	12.89	11.49
83	4 2	22	58.2	ON 317	38.1	63.8	12.16	12.78	12.18	11.58
				OFF 316	39.7	65.6	12.16	12.72	12.12	11.52
84	4 1	117	329.5	ON 315	31.2	54.9	12.15	12.64	12.84	11.44
				OFF 316	40.3	66.7	12.16	12.72	12.12	11.52
85	4 1	19	52.3	ON 284	41.5	112.1	12.88	12.73	12.13	11.53
				OFF 281	40.2	114.7	11.99	12.72	12.12	11.52
86	4 1	11	29.1	ON 288	43.2	107.8	12.82	12.74	12.14	11.54
				OFF 286	42.6	109.6	12.81	12.73	12.13	11.53
86	4 2	11	29.1	ON 274	35.9	121.1	11.95	12.69	12.89	11.49
				OFF 273	34.8	122.3	11.94	12.68	12.88	11.48
87	4 1	45	119.8	ON 324	46.8	98.3	12.18	12.75	12.15	11.55
				OFF 298	45.5	97.9	12.87	12.74	12.14	11.54
87	4 2	16	42.3	ON 291	44.4	104.2	12.84	12.74	12.14	11.54
				OFF 289	43.6	106.8	12.83	12.74	12.14	11.54
87	4 3	11	29.1	ON 283	41.6	112.1	12.88	12.73	12.13	11.53
				OFF 281	40.8	113.7	11.99	12.72	12.12	11.52
87	4 4	11	29.1	ON 278	39.8	116.9	11.97	12.71	12.11	11.51
				OFF 277	38.1	118.3	11.97	12.78	12.18	11.58
88	3 1	121	320.8	ON 313	45.4	99.8	12.14	12.74	12.14	11.54
				OFF 294	39.4	116.3	12.85	12.71	12.11	11.51
98	3 6	22	58.2	ON 328	23.4	49.3	12.21	12.58	11.98	11.38
				OFF 329	25.7	58.5	12.22	12.55	11.95	11.35
96	2 1	22	52.9	ON 333	38.6	53.8	12.23	12.64	12.84	11.44
				OFF 334	32.7	55.4	12.24	12.66	12.86	11.46
96	2 2	15	39.7	ON 283	33.2	124.8	12.88	12.66	12.86	11.46
				OFF 281	31.5	126.2	11.99	12.64	12.84	11.44
96	2 1	15	39.7	ON 331	26.6	58.6	12.22	12.57	11.97	11.37
				OFF 332	28.2	51.6	12.23	12.68	12.88	11.48
98	2 2	22	52.9	ON 334	33.6	56.1	12.24	12.67	12.87	11.47

				OFF 335	35.4	58.1	12.24	12.68	12.88	11.48	
99	4	1	54	142.8	ON 333	28.4	51.7	12.23	12.68	12.88	11.48
				OFF 334	33.4	55.8	12.24	12.66	12.86	11.46	
99	4	2	22	58.2	ON 335	35.9	58.5	12.24	12.69	12.89	11.49
				OFF 334	37.7	68.8	12.24	12.78	12.18	11.58	
100	4	1	117	389.5	ON 333	28.2	51.4	12.23	12.68	12.88	11.48
				OFF 334	38.4	61.7	12.24	12.71	12.11	11.51	
101	4	1	19	58.3	ON 388	44.2	107.7	12.88	12.74	12.14	11.54
				OFF 297	43.1	112.6	12.87	12.73	12.13	11.53	
102	6	1	36	95.2	ON 381	45.5	102.9	12.89	12.74	12.14	11.54
				OFF 295	43.9	108.7	12.86	12.74	12.14	11.54	
102	6	2	11	29.1	ON 286	39.3	118.1	12.81	12.71	12.11	11.51
				OFF 285	38.4	119.5	12.81	12.71	12.11	11.51	
102	6	3	56	148.1	ON 274	29.6	128.2	11.95	12.62	12.82	11.42
				OFF 269	23.8	132.1	11.92	12.49	11.89	11.29	
103	6	1	124	275.1	ON 317	46.5	84.2	12.16	12.75	12.15	11.55
				OFF 302	45.9	101.7	12.89	12.75	12.15	11.55	
103	6	2	12	31.7	ON 296	44.3	107.7	12.86	12.74	12.14	11.54
				OFF 294	43.7	109.6	12.85	12.74	12.14	11.54	
103	6	3	11	29.1	ON 291	42.1	113.2	12.84	12.73	12.13	11.53
				OFF 289	41.3	114.9	12.83	12.73	12.13	11.53	
104	3	1	128	317.4	ON 318	46.9	93.3	12.13	12.75	12.15	11.55
				OFF 291	42.5	112.5	12.84	12.73	12.13	11.53	
112	2	1	20	52.9	ON 324	28.8	58.2	12.19	12.68	12.88	11.48
				OFF 326	38.1	51.6	12.28	12.63	12.83	11.43	
112	7	2	16	42.3	ON 289	36.9	122.8	12.83	12.78	12.18	11.58
				OFF 287	35.3	124.5	12.82	12.68	12.88	11.48	
114	2	1	15	39.7	ON 326	23.5	47.5	12.18	12.58	11.98	11.38
				OFF 322	25.2	48.3	12.18	12.54	11.94	11.34	
114	2	2	21	55.5	ON 327	31.1	52.2	12.21	12.64	12.84	11.44
				OFF 328	33.1	53.9	12.21	12.66	12.86	11.46	
115	4	1	53	148.2	ON 322	25.4	48.3	12.19	12.55	11.95	11.35
				OFF 327	38.8	51.9	12.21	12.64	12.84	11.44	
115	4	2	22	58.2	ON 329	33.6	54.2	12.21	12.67	12.87	11.47
				OFF 338	35.6	56.3	12.22	12.69	12.89	11.49	
117	4	1	18	53.3	ON 385	46.8	103.8	12.13	12.75	12.15	11.55
				OFF 387	46.8	106.3	12.11	12.75	12.15	11.55	
118	3	1	36	95.2	ON 314	47.7	97.6	12.15	12.75	12.15	11.55
				OFF 388	46.7	104.8	12.12	12.75	12.15	11.55	
118	3	2	11	29.1	ON 297	42.8	114.9	12.87	12.73	12.13	11.53
				OFF 295	41.9	116.5	12.86	12.73	12.13	11.53	
119	3	1	14	37.8	ON 323	47.8	83.4	12.19	12.75	12.15	11.55
				OFF 322	48.8	86.8	12.18	12.75	12.15	11.55	
119	3	2	17	45.8	ON 317	48.2	93.2	12.16	12.75	12.15	11.55
				OFF 315	48.8	96.3	12.15	12.75	12.15	11.55	
119	3	3	12	31.7	ON 322	45.3	109.2	12.89	12.74	12.14	11.54
				OFF 321	44.6	111.1	12.89	12.74	12.14	11.54	
120	5	1	64	222.2	ON 316	48.2	94.4	12.15	12.75	12.15	11.55
				OFF 382	45.6	108.5	12.18	12.74	12.14	11.54	
127	2	1	13	34.4	ON 326	6.6	41.7	12.11	11.58	10.98	10.38
				OFF 382	18.3	42.8	12.12	11.77	11.17	10.57	

128	2	1	19	58.3	ON	324	25.1	46.7	12.19	12.54	11.94	11.34
					OFF	326	27.3	47.8	12.20	12.58	11.98	11.38
128	4	6	16	42.3	ON	291	48.8	128.4	12.04	12.72	12.12	11.52
					OFF	290	39.3	122.4	12.83	12.71	12.11	11.51
130	6	1	75	198.4	ON	315	9.6	48.3	12.15	11.69	11.89	10.49
					OFF	324	17.4	58.6	12.19	12.28	11.68	11.88
130	6	2	21	55.5	ON	330	23.1	53.3	12.22	12.49	11.89	11.29
					OFF	331	25.1	54.6	12.22	12.54	11.94	11.34
131	4	1	53	148.2	ON	325	17.6	56.5	12.20	12.29	11.69	11.89
					OFF	329	22.8	53.8	12.22	12.48	11.88	11.28
131	4	2	23	68.8	ON	331	25.5	54.8	12.22	12.55	11.95	11.35
					OFF	332	27.5	56.3	12.23	12.59	11.99	11.39
132	4	1	116	386.8	ON	325	17.4	58.3	12.20	12.28	11.68	11.88
					OFF	333	28.3	56.7	12.23	12.60	12.80	11.40
133	4	1	19	56.3	ON	312	43.2	92.7	12.14	12.74	12.14	11.54
					OFF	389	43.8	95.7	12.12	12.73	12.13	11.53
134	4	1	12	31.7	ON	316	43.3	88.8	12.16	12.74	12.14	11.54
					OFF	315	43.4	89.9	12.15	12.74	12.14	11.54
134	4	2	12	31.7	ON	299	41.5	104.1	12.08	12.73	12.13	11.53
					OFF	297	41.8	105.9	12.07	12.72	12.12	11.52
135	4	1	47	124.3	ON	329	48.8	72.3	12.21	12.72	12.12	11.52
					OFF	324	42.1	78.5	12.19	12.73	12.13	11.53
135	4	2	17	45.8	ON	319	43.1	84.3	12.17	12.74	12.14	11.54
					OFF	317	43.4	86.9	12.16	12.74	12.14	11.54
135	4	3	12	31.7	ON	311	43.5	92.8	12.13	12.74	12.14	11.54
					OFF	389	43.3	94.7	12.13	12.74	12.14	11.54
135	4	4	12	31.7	ON	365	42.9	98.6	12.11	12.73	12.13	11.53
					OFF	383	42.5	108.5	12.10	12.73	12.13	11.53
136	5	1	83	219.5	ON	312	43.4	85.4	12.14	12.74	12.14	11.54
					OFF	368	43.1	98.8	12.08	12.73	12.13	11.53
144	2	1	28	52.9	ON	337	17.2	46.4	12.25	12.27	11.67	11.87
					OFF	337	19.3	49.2	12.25	12.37	11.77	11.17
144	4	8	15	39.7	ON	287	41.2	109.7	12.02	12.72	12.12	11.52
					OFF	285	48.2	112.8	12.01	12.72	12.12	11.52
146	2	1	15	39.7	ON	335	12.7	46.7	12.24	11.98	11.38	10.78
					OFF	336	14.4	47.1	12.24	12.10	11.58	10.98
146	2	2	21	55.5	ON	338	20.5	49.4	12.25	12.41	11.81	11.21
					OFF	338	22.7	50.4	12.25	12.48	11.88	11.28
147	4	1	54	142.8	ON	336	14.6	47.8	12.24	12.12	11.52	10.92
					OFF	338	28.3	49.1	12.25	12.40	11.80	11.20
147	4	2	23	62.8	ON	338	23.2	58.6	12.25	12.50	11.90	11.30
					OFF	338	25.5	51.9	12.25	12.55	11.95	11.35
149	4	1	19	58.3	ON	384	45.5	87.4	12.10	12.74	12.14	11.54
					OFF	321	45.6	98.7	12.09	12.74	12.14	11.54
150	3	1	37	97.9	ON	388	45.1	82.3	12.12	12.74	12.14	11.54
					OFF	383	45.7	88.4	12.09	12.75	12.15	11.55
150	3	2	12	31.7	ON	294	44.9	108.1	12.05	12.74	12.14	11.54
					OFF	292	44.5	102.1	12.04	12.74	12.14	11.54
151	3	1	14	37.8	ON	322	42.1	78.5	12.17	12.73	12.13	11.53
					OFF	318	42.8	72.5	12.17	12.73	12.13	11.53
151	3	2	17	45.8	ON	312	44.6	78.4	12.14	12.74	12.14	11.54

					OFF 389	45.1	81.1	12.13	12.74	12.14	11.54
151	3	3	12	31.7	ON 298	45.8	93.7	12.87	12.75	12.15	11.55
					OFF 297	45.6	95.8	12.87	12.74	12.14	11.54
152	3	1	125	338.6	ON 317	43.4	73.5	12.16	12.74	12.14	11.54
					OFF 299	46.8	93.8	12.88	12.75	12.15	11.55
160	2	1	28	52.9	ON 337	14.6	44.8	12.25	12.12	11.52	10.92
					OFF 337	16.9	45.5	12.25	12.25	11.65	11.85
162	4	8	16	42.3	ON 287	45.8	187.8	12.82	12.74	12.14	11.54
					OFF 286	44.1	189.6	12.81	12.74	12.14	11.54
162	2	1	15	39.7	ON 335	9.7	43.4	12.24	11.71	11.11	10.51
					OFF 336	11.5	43.7	12.24	11.88	11.28	10.68
162	2	2	21	55.5	ON 338	18.1	45.6	12.25	12.31	11.71	11.11
					OFF 338	28.4	46.5	12.25	12.41	11.81	11.21
163	4	1	54	142.8	ON 342	11.8	43.6	12.26	11.91	11.31	10.71
					OFF 342	17.8	45.3	12.27	12.38	11.78	11.18
163	4	2	23	62.8	ON 342	21.8	46.5	12.27	12.43	11.83	11.23
					OFF 342	23.4	47.6	12.27	12.58	11.98	11.38
164	4	1	117	389.5	ON 342	11.6	43.4	12.26	11.89	11.29	10.69
					OFF 342	24.4	47.9	12.27	12.52	11.92	11.32
165	4	1	19	52.3	ON 388	47.6	81.7	12.12	12.75	12.15	11.55
					OFF 385	48.8	85.3	12.18	12.75	12.15	11.55
166	3	1	36	95.2	ON 312	46.7	76.3	12.14	12.75	12.15	11.55
					OFF 387	47.9	82.8	12.11	12.75	12.15	11.55
166	3	2	11	29.1	ON 298	48.2	95.7	12.87	12.75	12.15	11.55
					OFF 296	47.9	97.9	12.86	12.75	12.15	11.55
167	3	1	14	37.8	ON 324	42.4	64.6	12.19	12.73	12.13	11.53
					OFF 322	43.4	66.5	12.18	12.74	12.14	11.54
167	3	2	17	45.2	ON 316	45.8	72.4	12.16	12.75	12.15	11.55
					OFF 313	46.6	75.1	12.14	12.75	12.15	11.55
167	3	3	11	29.1	ON 322	48.5	88.6	12.89	12.75	12.15	11.55
					OFF 321	48.6	92.9	12.88	12.75	12.15	11.55
168	3	1	125	338.6	ON 321	44.1	67.5	12.18	12.74	12.14	11.54
					OFF 323	48.7	87.9	12.89	12.75	12.15	11.55
175	2	1	14	37.7	ON 329	-5.9	48.5	12.21	8.88	8.88	8.88
					OFF 334	-4.1	48.4	12.22	8.88	8.88	8.88
176	3	1	27	158.8	ON 326	-8.7	48.6	12.28	8.88	8.88	8.88
					OFF 333	-1.8	48.1	12.23	8.88	8.88	8.88
176	3	2	23	52.9	ON 341	11.6	41.2	12.27	11.88	11.28	10.68
					OFF 342	13.9	41.7	12.27	12.87	11.47	10.87
176	4	2	16	42.3	ON 291	48.9	183.2	12.84	12.75	12.15	11.55
					OFF 289	48.2	186.3	12.83	12.75	12.15	11.55

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 195 P.2288				SLIT W/21		FILTER	3484 FILM			
GPS NO	FPA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRY	
82	2	21	55.5	ON 319	37.6	61.4	12.17	12.78	12.18	11.58
				OFF 319	39.1	63.6	12.17	12.71	12.11	11.51
82	2	3	7.9	ON 248	42.8	189.8	11.81	12.73	12.13	11.53
				OFF 248	41.4	111.2	11.81	12.73	12.13	11.53
83	4	54	142.8	ON 317	31.3	54.5	12.16	12.64	12.84	11.44

					OFF 319	35.9	59.1	12.17	12.69	12.89	11.49
83	4	2	23	68.8	ON 319	38.1	61.9	12.17	12.78	12.18	11.58
					OFF 318	39.7	64.4	12.17	12.72	12.12	11.52
84	4	1	118	312.1	ON 317	31.2	54.3	12.16	12.64	12.84	11.44
					OFF 318	48.3	65.4	12.17	12.72	12.12	11.52
85	4	1	19	58.3	ON 285	41.6	111.1	12.88	12.73	12.13	11.53
					OFF 282	48.3	113.9	11.99	12.72	12.12	11.52
86	4	1	12	31.7	ON 289	43.3	186.7	12.83	12.74	12.14	11.54
					OFF 287	42.7	128.5	12.82	12.73	12.13	11.53
86	4	2	11	29.1	ON 275	36.8	128.5	11.95	12.69	12.89	11.49
					OFF 273	34.9	121.8	11.95	12.68	12.88	11.48
87	4	1	46	121.7	ON 305	46.8	88.2	12.11	12.75	12.15	11.55
					OFF 299	45.6	96.2	12.88	12.74	12.14	11.54
87	4	2	16	42.3	ON 293	44.4	182.8	12.85	12.74	12.14	11.54
					OFF 298	43.7	185.6	12.83	12.74	12.14	11.54
87	4	3	11	29.1	ON 284	41.7	111.2	12.88	12.73	12.13	11.53
					OFF 282	42.9	112.8	11.99	12.72	12.12	11.52
87	4	4	11	29.1	ON 279	39.1	116.2	11.98	12.71	12.11	11.51
					OFF 278	38.2	117.6	11.97	12.71	12.11	11.51
88	3	1	122	322.7	ON 314	45.5	97.4	12.15	12.74	12.14	11.54
					OFF 295	39.5	115.5	12.86	12.71	12.11	11.51
92	3	2	22	58.2	ON 329	23.3	48.9	12.21	12.58	11.98	11.38
					OFF 331	25.6	58.1	12.22	12.55	11.95	11.35
96	2	1	28	52.9	ON 335	38.8	53.1	12.24	12.64	12.84	11.44
					OFF 336	32.7	54.6	12.24	12.66	12.86	11.46
96	2	2	15	39.7	ON 283	33.3	124.4	12.88	12.66	12.86	11.46
					OFF 281	31.7	125.8	11.99	12.65	12.85	11.45
98	2	1	15	39.7	ON 333	26.6	58.8	12.23	12.57	11.97	11.37
					OFF 334	28.1	51.8	12.24	12.68	12.88	11.48
98	2	2	22	52.9	ON 336	33.6	55.3	12.24	12.67	12.87	11.47
					OFF 336	35.4	57.1	12.25	12.68	12.88	11.48
99	4	1	54	142.8	ON 334	28.3	51.8	12.24	12.68	12.88	11.48
					OFF 336	33.4	54.9	12.24	12.66	12.86	11.46
99	4	2	23	68.8	ON 336	35.8	57.4	12.25	12.69	12.89	11.49
					OFF 336	37.6	59.6	12.24	12.78	12.18	11.58
100	4	1	118	312.1	ON 334	26.1	58.8	12.24	12.68	12.88	11.48
					OFF 336	38.3	68.4	12.24	12.71	12.11	11.51
101	4	1	19	58.3	ON 302	44.3	186.7	12.88	12.74	12.14	11.54
					OFF 297	43.2	189.7	12.87	12.74	12.14	11.54
102	6	1	38	95.2	ON 302	45.6	181.7	12.89	12.74	12.14	11.54
					OFF 296	44.8	187.7	12.86	12.74	12.14	11.54
102	6	2	11	29.1	ON 287	39.5	117.5	12.82	12.71	12.11	11.51
					OFF 285	38.5	118.9	12.81	12.71	12.11	11.51
102	6	3	58	148.1	ON 274	29.8	127.9	11.95	12.62	12.82	11.42
					OFF 268	23.2	131.9	11.92	12.49	11.89	11.29
103	6	1	125	277.7	ON 319	46.5	82.2	12.17	12.75	12.15	11.55
					OFF 323	45.9	188.5	12.18	12.75	12.15	11.55
103	6	2	12	31.7	ON 296	44.4	186.8	12.86	12.74	12.14	11.54
					OFF 295	43.8	188.7	12.86	12.74	12.14	11.54
103	6	3	11	29.1	ON 291	42.2	112.5	12.84	12.73	12.13	11.53
					OFF 296	41.4	114.1	12.83	12.73	12.13	11.53

104	3	1	121	328.8	ON	311	46.9	91.8	12.13	12.75	12.15	11.55
					OFF	292	42.6	111.8	12.84	12.73	12.13	11.53
112	2	1	27	52.9	ON	326	28.8	49.5	12.28	12.59	11.99	11.39
					OFF	328	38.8	58.8	12.21	12.63	12.83	11.43
112	7	8	16	42.3	ON	290	37.8	122.3	12.83	12.78	12.18	11.58
					OFF	286	35.4	124.1	12.82	12.68	12.88	11.48
114	2	1	15	39.7	ON	322	23.5	46.9	12.18	12.58	11.98	11.38
					OFF	323	25.1	47.7	12.19	12.54	11.94	11.34
114	2	2	21	55.5	ON	329	31.8	51.3	12.21	12.64	12.84	11.44
					OFF	338	33.1	52.9	12.22	12.66	12.86	11.46
115	4	1	53	148.2	ON	324	25.4	47.7	12.19	12.55	11.95	11.35
					OFF	329	38.8	51.8	12.21	12.63	12.83	11.43
115	4	2	23	68.8	ON	331	33.5	53.1	12.22	12.67	12.87	11.47
					OFF	332	35.6	55.8	12.23	12.68	12.88	11.48
116	4	1	117	389.5	ON	324	25.2	47.5	12.19	12.54	11.94	11.34
					OFF	332	36.4	55.7	12.23	12.69	12.89	11.49
117	4	1	19	58.3	ON	311	46.8	182.8	12.13	12.75	12.15	11.55
					OFF	388	46.8	185.4	12.12	12.75	12.15	11.55
118	3	1	35	95.2	ON	315	47.8	96.4	12.15	12.75	12.15	11.55
					OFF	389	46.7	183.8	12.13	12.75	12.15	11.55
118	3	2	11	29.1	ON	297	42.9	114.2	12.87	12.73	12.13	11.53
					OFF	296	42.8	115.9	12.86	12.73	12.13	11.53
119	3	1	14	37.8	ON	325	47.8	81.7	12.28	12.75	12.15	11.55
					OFF	323	48.8	84.3	12.19	12.75	12.15	11.55
119	3	2	17	45.8	ON	318	48.2	91.8	12.17	12.75	12.15	11.55
					OFF	316	46.8	95.1	12.16	12.75	12.15	11.55
119	3	3	12	31.7	ON	384	45.3	188.4	12.18	12.74	12.14	11.54
					OFF	382	44.7	118.4	12.89	12.74	12.14	11.54
120	5	1	84	222.2	ON	317	48.2	93.2	12.16	12.75	12.15	11.55
					OFF	384	45.7	187.7	12.18	12.74	12.14	11.54
127	2	1	13	34.4	ON	387	6.5	41.4	12.11	11.57	18.97	18.37
					OFF	339	18.2	41.7	12.12	11.76	11.16	18.56
128	2	1	19	58.3	ON	326	25.8	46.8	12.28	12.54	11.94	11.34
					OFF	329	27.2	47.8	12.21	12.58	11.98	11.38
128	4	8	15	42.3	ON	291	48.9	119.9	12.84	12.72	12.12	11.52
					OFF	289	39.5	122.8	12.83	12.71	12.11	11.51
132	6	1	76	281.8	ON	315	9.5	47.9	12.15	11.68	11.88	18.48
					OFF	325	17.3	58.8	12.19	12.27	11.67	11.87
132	6	2	21	55.5	ON	338	23.8	52.5	12.22	12.49	11.89	11.29
					OFF	331	25.8	53.6	12.22	12.54	11.94	11.34
131	4	1	53	148.2	ON	325	17.5	49.9	12.28	12.28	11.68	11.88
					OFF	338	22.7	52.1	12.22	12.48	11.88	11.28
131	4	2	23	68.8	ON	332	25.5	53.7	12.23	12.55	11.95	11.35
					OFF	333	27.5	55.8	12.23	12.59	11.99	11.39
132	4	1	117	389.5	ON	325	17.3	49.7	12.28	12.27	11.67	11.87
					OFF	333	28.3	55.4	12.23	12.68	12.88	11.48
133	4	1	19	58.3	ON	312	43.2	91.8	12.14	12.74	12.14	11.54
					OFF	389	43.8	94.9	12.12	12.73	12.13	11.53
134	4	1	12	31.7	ON	316	43.3	86.9	12.16	12.74	12.14	11.54
					OFF	314	43.4	88.9	12.15	12.74	12.14	11.54
134	4	2	11	29.1	ON	299	41.6	183.5	12.87	12.73	12.13	11.53

					OFF 297	41.1	185.3	12.86	12.72	12.12	11.52
135	4	1	47	124.3	ON 329	48.8	78.4	12.21	12.72	12.12	11.52
					OFF 324	42.1	76.9	12.19	12.73	12.13	11.53
135	4	2	17	45.8	ON 319	43.1	83.8	12.17	12.74	12.14	11.54
					OFF 317	43.4	85.8	12.16	12.74	12.14	11.54
135	4	3	12	31.7	ON 311	43.5	91.9	12.13	12.74	12.14	11.54
					OFF 309	43.4	93.8	12.12	12.74	12.14	11.54
135	4	4	12	31.7	ON 305	42.9	97.9	12.18	12.73	12.13	11.53
					OFF 303	42.6	99.8	12.89	12.73	12.13	11.53
136	5	1	84	222.2	ON 312	43.4	84.2	12.14	12.74	12.14	11.54
					OFF 300	43.2	97.2	12.88	12.74	12.14	11.54
144	2	1	28	52.9	ON 337	17.2	47.7	12.25	12.27	11.67	11.87
					OFF 338	19.3	48.4	12.25	12.36	11.76	11.16
144	4	8	15	39.7	ON 286	41.3	189.3	12.81	12.73	12.13	11.53
					OFF 284	48.3	111.6	12.88	12.72	12.12	11.52
146	2	1	15	39.7	ON 335	12.7	46.1	12.24	11.97	11.37	10.77
					OFF 336	14.3	46.5	12.24	12.18	11.58	10.98
146	2	2	21	55.5	ON 338	28.4	48.5	12.25	12.41	11.81	11.21
					OFF 338	22.6	49.5	12.25	12.48	11.88	11.28
147	4	1	54	142.8	ON 336	14.6	46.4	12.25	12.11	11.51	10.91
					OFF 335	28.2	48.2	12.25	12.48	11.88	11.28
147	4	2	23	68.8	ON 338	23.2	49.5	12.25	12.49	11.89	11.29
					OFF 338	25.4	58.7	12.25	12.55	11.95	11.35
149	4	1	19	58.3	ON 323	45.5	86.5	12.18	12.74	12.14	11.54
					OFF 322	45.6	89.8	12.88	12.74	12.14	11.54
152	3	1	37	97.9	ON 308	45.1	81.2	12.12	12.74	12.14	11.54
					OFF 302	45.7	87.5	12.89	12.75	12.15	11.55
152	3	2	12	31.7	ON 293	45.8	99.5	12.85	12.74	12.14	11.54
					OFF 292	44.6	181.5	12.84	12.74	12.14	11.54
151	3	1	14	37.8	ON 322	42.8	68.8	12.17	12.73	12.13	11.53
					OFF 312	42.8	78.9	12.17	12.73	12.13	11.53
151	3	2	17	45.8	ON 312	44.6	77.1	12.14	12.74	12.14	11.54
					OFF 309	45.1	88.8	12.12	12.74	12.14	11.54
151	3	3	12	31.7	ON 297	45.8	93.8	12.87	12.75	12.15	11.55
					OFF 296	45.7	95.1	12.86	12.74	12.14	11.54
152	3	1	125	338.6	ON 316	43.4	72.8	12.16	12.74	12.14	11.54
					OFF 298	46.8	92.3	12.87	12.75	12.15	11.55
162	2	1	28	52.9	ON 337	14.6	44.2	12.25	12.11	11.51	10.91
					OFF 338	16.8	44.7	12.25	12.25	11.65	11.85
162	4	8	16	42.3	ON 286	45.8	186.5	12.81	12.74	12.14	11.54
					OFF 284	44.2	189.2	12.88	12.74	12.14	11.54
162	2	1	15	39.7	ON 335	9.7	42.9	12.24	11.78	11.18	10.58
					OFF 336	11.4	43.2	12.24	11.87	11.27	10.67
162	2	2	21	55.5	ON 338	18.8	44.7	12.25	12.31	11.71	11.11
					OFF 338	28.4	45.5	12.25	12.41	11.81	11.21
163	4	1	54	142.8	ON 339	11.8	43.8	12.26	11.98	11.38	10.78
					OFF 341	17.7	44.4	12.26	12.29	11.69	11.89
163	4	2	23	68.8	ON 341	21.8	45.5	12.27	12.43	11.83	11.23
					OFF 341	23.4	46.5	12.26	12.58	11.98	11.38
165	4	1	19	58.3	ON 326	47.6	88.7	12.11	12.75	12.15	11.55
					OFF 303	48.8	84.4	12.89	12.75	12.15	11.55

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166	3	1	36	95.2	ON	311	46.7	75.2	12.13	12.75	12.15	11.55
					OFF	385	47.9	81.9	12.18	12.75	12.15	11.55
166	3	2	11	29.1	ON	295	48.2	95.8	12.86	12.75	12.15	11.55
					OFF	294	48.8	97.3	12.85	12.75	12.15	11.55
167	3	1	14	37.8	ON	323	42.4	62.8	12.19	12.73	12.13	11.53
					OFF	321	43.4	64.9	12.18	12.74	12.14	11.54
167	3	2	17	45.8	ON	314	45.8	71.1	12.15	12.75	12.15	11.55
					OFF	312	46.6	74.8	12.14	12.75	12.15	11.55
167	3	3	11	29.1	ON	300	48.6	87.9	12.88	12.75	12.15	11.55
					OFF	298	48.6	90.2	12.87	12.75	12.15	11.55
168	3	1	125	338.6	ON	319	44.1	66.8	12.17	12.74	12.14	11.54
					OFF	300	48.7	87.1	12.88	12.75	12.15	11.55
175	2	1	14	37.8	ON	327	-5.9	48.2	12.21	8.88	8.88	8.88
					OFF	329	-4.1	48.1	12.21	8.88	8.88	8.88
176	3	1	57	156.8	ON	324	-8.7	48.4	12.19	8.88	8.88	8.88
					OFF	331	-1.8	39.8	12.22	8.88	8.88	8.88
176	3	2	28	52.9	ON	348	11.5	48.6	12.26	11.88	11.28	18.68
					OFF	348	13.9	41.8	12.26	12.67	11.47	18.87
176	4	8	15	39.7	ON	289	49.8	182.7	12.83	12.75	12.15	11.55
					OFF	287	48.3	185.9	12.82	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILT FILTER GRID ASSEMBLY NO D84
 STELLAR 2.8 3421 NONE 75
 INDEX 1/50F 3482 W/21 182
 PERFORMANCE SUMMARY

OPN	NO	FR	STEL	INDX	H	M	S	Q	LAT	LONG	Q	LAT	LONG	SEC
82	6	1	1.89	2.18	3	16	43	1	39	57E	1	48	66E	175
83	4	1	8.79	1.58	4	41	58	1	47	42E	1	53	58E	123
83	4	2	8.48	8.79	4	44	59	1	56	55E	1	58	68E	51
84	4	1	1.68	3.37	6	18	38	1	47	19E	1	59	48E	264
85	4	1	8.38	8.59	7	55	46	2	52	189E	2	49	112E	49
86	4	1	8.28	8.48	9	23	16	2	55	81E	2	54	84E	38
86	4	2	8.18	8.22	9	27	37	2	41	97E	2	48	99E	38
87	4	1	8.69	1.39	18	47	41	2	64	28E	2	61	44E	111
87	4	2	8.32	8.59	14	51	9	2	58	54E	2	56	58E	42
87	4	3	8.28	8.48	18	53	22	2	51	65E	2	52	67E	38
87	4	4	8.18	8.28	12	54	56	2	46	78E	2	45	72E	29
88	3	1	1.78	3.55	12	18	41	2	61	24E	2	47	48E	293
92	3	8	8.38	8.59	15	8	39	1	38	122W	1	41	128W	51
96	2	1	8.48	8.79	23	56	31	1	49	112E	1	51	115E	47
96	2	2	8.28	8.48	2	17	29	2	33	121W	2	31	119W	42
98	2	1	8.28	8.48	2	52	28	1	44	62E	1	46	64E	36
98	2	2	8.48	8.79	2	55	17	1	53	73E	1	55	76E	48
99	4	1	8.79	1.58	4	21	57	1	47	42E	1	53	58E	122
99	4	2	8.38	8.59	4	25	5	1	56	55E	1	58	68E	51
184	4	1	1.68	3.37	5	52	41	1	47	28E	1	59	48E	264
181	4	1	8.38	8.59	7	35	48	2	52	118E	2	49	113E	48
182	6	1	7.58	8.99	9	3	15	2	55	82E	2	51	88E	98

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182	6	2	2	0.22	0.48	9	7	36	2	41	98E	2	48	99E	38
182	6	3	9	0.89	1.78	9	11	56	2	26	107E	2	17	112E	152
183	6	1	15	1.48	2.97	12	27	36	2	64	29E	2	56	58E	249
183	6	2	2	0.20	0.48	10	33	17	2	51	65E	2	58	67E	38
183	6	3	2	0.20	0.48	10	34	50	2	46	71E	2	45	73E	29
184	3	1	17	1.68	3.37	11	58	32	2	61	24E	2	47	48E	293
112	2	1	3	0.38	0.59	23	36	57	1	49	113E	1	52	116E	47
112	7	0	3	0.30	0.59	23	57	57	2	33	120W	2	31	119W	42
114	2	1	2	0.20	0.48	2	33	12	1	44	63E	1	46	64E	36
114	2	2	3	0.38	0.59	2	36	2	1	53	73E	1	55	77E	48
115	4	1	6	0.79	1.58	4	2	58	1	47	42E	1	53	50E	122
115	4	2	4	0.48	0.79	4	5	58	1	56	56E	1	58	61E	52
117	4	1	3	0.38	0.59	7	16	51	2	52	110E	2	49	113E	49
118	3	1	5	0.50	0.99	8	44	32	2	55	82E	2	51	89E	98
118	3	2	2	0.26	0.48	8	48	54	2	41	98E	2	48	99E	38
119	3	1	3	0.38	0.59	18	18	19	2	63	48E	2	62	44E	35
119	3	2	2	0.20	0.48	10	12	38	2	58	54E	2	56	58E	42
119	3	3	2	0.28	0.48	10	16	16	2	46	71E	2	45	73E	38
122	5	1	13	1.29	2.57	11	41	43	2	57	34E	2	47	48E	199
127	2	1	2	0.26	0.48	21	44	11	1	38	128E	1	32	121E	34
128	2	1	3	0.38	0.59	23	18	39	1	49	113E	1	51	116E	46
128	4	0	2	0.26	0.48	23	39	36	2	33	128W	2	31	119W	42
130	6	1	11	1.89	2.18	2	12	29	1	36	57E	1	46	65E	175
130	6	2	4	0.48	0.79	2	17	37	1	53	73E	1	56	77E	49
131	4	1	7	0.69	1.39	5	44	21	1	47	43E	1	53	50E	121
131	4	2	4	0.48	0.79	3	47	29	1	56	56E	1	58	61E	52
132	4	1	17	1.68	3.37	5	13	9	1	47	28E	1	59	41E	264
133	4	1	3	0.38	0.59	6	58	13	2	52	110E	2	49	113E	48
134	4	1	2	0.20	0.48	8	25	52	2	55	82E	2	54	85E	38
134	4	2	2	0.28	0.48	8	32	13	2	41	98E	2	48	100E	38
135	4	1	7	0.69	1.39	9	58	19	2	64	29E	2	61	44E	111
135	4	2	3	0.38	0.59	9	53	46	2	58	55E	2	56	59E	42
135	4	3	2	0.20	0.48	9	56	8	2	51	66E	2	58	68E	38
135	4	4	2	0.20	0.48	9	57	32	2	46	71E	2	45	73E	38
136	5	1	12	1.19	2.38	11	22	55	2	57	34E	2	47	49E	198
144	2	1	3	0.38	0.59	22	59	9	1	49	113E	1	51	116E	46
144	4	0	2	0.28	0.48	23	20	8	2	33	120W	2	31	119W	42
146	2	1	3	0.38	0.59	1	55	8	1	44	63E	1	46	65E	36
146	2	2	3	0.38	0.59	1	57	57	1	53	73E	1	55	77E	49
147	4	1	6	0.79	1.58	3	24	37	1	46	43E	1	53	51E	122
147	4	2	4	0.48	0.79	3	27	46	1	56	56E	1	58	61E	52
149	4	1	3	0.38	0.59	6	38	21	2	52	110E	2	49	113E	48
150	3	1	5	0.50	0.99	8	5	54	2	55	82E	2	51	89E	98
150	3	2	2	0.20	0.48	6	18	16	2	41	99E	2	48	100E	31
151	3	1	2	0.20	0.48	9	31	33	2	63	48E	2	62	44E	34
151	3	2	3	0.38	0.59	9	33	44	2	58	55E	2	56	59E	42
151	3	3	2	0.28	0.48	9	37	29	2	46	72E	2	45	73E	38
152	3	1	18	1.78	3.56	11	1	14	2	61	25E	2	47	49E	293
162	2	1	3	0.38	0.59	22	38	38	1	49	114E	1	51	117E	46
162	4	0	3	0.38	0.59	22	59	35	2	33	119W	2	31	118W	42
162	2	1	2	0.28	0.48	1	34	26	1	44	64E	1	46	65E	35

~~TOP SECRET~~

162	2	2	4	0.48	0.79	1	37	15	1	53	74E	1	55	78E	49
163	4	1	8	0.79	1.58	3	3	52	1	46	44E	1	53	51E	121
163	4	2	3	0.38	0.59	3	7	8	1	56	57E	1	58	62E	52
164	4	1	17	1.68	3.37	4	32	31	1	46	21E	1	59	41E	263
165	4	1	3	0.38	0.59	6	17	24	2	52	111E	2	49	114E	49
166	3	1	6	0.59	1.19	7	44	53	2	55	83E	2	51	98E	98
166	3	2	2	0.28	0.48	7	49	14	2	42	99E	2	48	188E	38
167	3	1	2	0.28	0.48	9	18	28	2	63	41E	2	62	45E	34
167	3	2	3	0.38	0.59	9	12	39	2	58	56E	2	56	59E	42
167	3	3	1	0.18	0.28	9	16	25	2	47	72E	2	45	74E	38
168	3	1	19	1.88	3.76	12	48	4	2	61	25E	2	47	49E	293
175	2	1	2	0.28	0.48	28	42	39	1	29	122E	1	31	123E	34
176	3	1	8	0.79	1.58	22	12	27	1	26	98E	1	34	182E	132
176	3	2	3	0.38	0.59	22	16	54	1	49	114E	1	51	117E	46
176	4	2	3	0.38	0.59	22	37	58	2	34	119W	2	31	117W	42

NOTE - ONLY THE LAST SIX FRAMES FOR OPERATION 882-86-1 ON THE F&C PAN CAMERA AND THE LAST SIX FRAMES FOR OPERATION 182-86-2 ON THE AFT PAN CAMERA ARE CONTAINED IN THE MISSION RECOVERY CAPSULE.

NOTE - OPERATION 882-88-2 IS THE CUT AND WRAP OPERATION WHICH OCCURRED AT THE TIME OF A MISSION RECOVERY.

NOTE - T/M DATA INDICATE NOMINAL SYSTEM PERFORMANCE.

NOTE - T/M DATA INDICATED THAT BOTH PANORAMIC CAMERAS RAN OUT OF FILM PRIOR TO OPERATION 176-4-2.

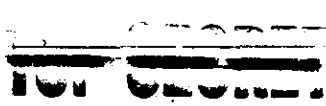
A. 1033-2

B. DRY

C. PERFORMANCE ESTIMATE PART TWO

RATE ESTIMATE
FWD PAN CAMERA NUMBER 194

OPN NO	FR	R	A	TUR/ DUF	INST CPS	INST ANG VEL	SCAN RATE R/SEC	RATE I/SEC	PCT CALIB	RATE REQD
82	6	1	78	3	8 ON 1566	0.4106	0.03465	2.580	61.92	-7.0 -8.6
					OFF 175	0.4179	0.03526	2.626	63.01	-7.0 -7.0
82	8	0	3	3	8 ON 0	0.3295	0.02780	2.070	49.68	-7.0 -25.4
					OFF 23	0.3295	0.02780	2.070	49.68	-7.0 -25.1
83	4	1	54	3	8 ON 1749	0.4182	0.03529	2.628	63.06	-7.0 -7.0
					OFF 123	0.4204	0.03547	2.641	63.39	-7.0 -6.1
83	4	2	22	3	8 ON 1937	0.4206	0.03549	2.643	63.42	-7.0 -5.8
					OFF 51	0.4202	0.03546	2.640	63.37	-7.0 -5.6
84	4	1	117	3	8 ON 1749	0.4182	0.03529	2.628	63.06	-7.0 -7.0
					OFF 264	0.4199	0.03543	2.639	63.32	-7.0 -5.5
85	4	1	19	3	8 ON 2723	0.3767	0.03178	2.367	56.80	-7.0 -9.3
					OFF 49	0.3733	0.03150	2.345	56.29	-7.0 -9.5
86	4	1	11	3	8 ON 2654	0.3827	0.03229	2.404	57.71	-7.0 -8.6
					OFF 30	0.3604	0.03209	2.390	57.36	-7.0 -8.8
86	4	2	11	3	8 ON 2915	0.3639	0.03070	2.286	54.87	-7.0 -10.1
					OFF 30	0.3622	0.03056	2.276	54.61	-7.0 -10.1
87	4	1	45	3	8 ON 2393	0.4032	0.03402	2.534	60.81	-7.0 -6.3
					OFF 111	0.3953	0.03335	2.484	59.61	-7.0 -7.1
87	4	2	16	3	8 ON 2600	0.3973	0.03268	2.433	58.40	-7.0 -8.0
					OFF 42	0.3940	0.03240	2.413	57.90	-7.0 -8.4
87	4	3	11	3	8 ON 2734	0.3758	0.03171	2.361	56.67	-7.0 -9.4
					OFF 30	0.3739	0.03155	2.349	56.38	-7.0 -9.6
87	4	4	11	3	8 ON 2827	0.3695	0.03118	2.322	55.72	-7.0 -9.9
					OFF 29	0.3670	0.03104	2.311	55.47	-7.0 -9.9
88	3	1	121	3	8 ON 2526	0.4156	0.03506	2.611	62.67	-1.0 -1.6
					OFF 293	0.3912	0.03301	2.458	58.99	-1.0 -3.9
90	3	2	22	3	8 ON 1592	0.4352	0.03672	2.735	65.63	-1.0 -2.9
					OFF 51	0.4376	0.03693	2.750	66.00	-1.0 -2.5
96	2	1	2	3	8 ON 1793	0.4430	0.03738	2.783	66.80	-1.0 -1.7
					OFF 47	0.4438	0.03744	2.788	66.92	-1.0 -1.3
96	2	0	15	3	8 ON 3051	0.3756	0.03170	2.360	56.64	-1.0 -4.9
					OFF 42	0.3733	0.03149	2.345	56.28	-1.0 -4.8
96	2	1	15	3	8 ON 1702	0.4403	0.03715	2.766	66.39	-1.0 -2.5
					OFF 36	0.4414	0.03724	2.773	66.56	-1.0 -2.2
98	2	2	20	3	8 ON 1872	0.4442	0.03748	2.791	66.90	-1.0 -1.2
					OFF 48	0.4444	0.03749	2.792	67.01	-1.0 -1.0
99	4	1	54	3	8 ON 1740	0.4410	0.03728	2.776	66.62	-1.0 -2.2
					OFF 122	0.4441	0.03747	2.791	66.97	-1.0 -1.3
99	4	2	22	3	8 ON 1936	0.4443	0.03749	2.792	67.00	-1.0 -0.9
					OFF 51	0.4440	0.03746	2.790	66.95	-1.0 -0.7
100	4	1	117	3	8 ON 1740	0.4410	0.03728	2.776	66.62	-1.0 -2.2
					OFF 264	0.4437	0.03744	2.788	66.90	-1.0 -0.6



101	4	1	19	3	8 ON	2723	0.3980	0.03358	2.501	60.02	-1.8	-4.2
					OFF	48	0.3944	0.03328	2.478	59.48	-1.8	-4.4
102	6	1	36	3	8 ON	2653	0.4001	0.03376	2.514	60.33	-2.8	-4.6
					OFF	90	0.3922	0.03310	2.465	59.15	-2.8	-5.4
102	6	2	11	3	8 ON	2914	0.3884	0.03210	2.390	57.37	-2.8	-6.1
					OFF	30	0.3787	0.03195	2.379	57.10	-2.8	-6.2
102	6	3	56	3	8 ON	3174	0.3644	0.03075	2.290	54.95	-2.8	-6.2
					OFF	152	0.3568	0.03011	2.242	53.81	-2.8	-5.3
103	6	1	124	3	8 ON	2392	0.4216	0.03557	2.649	63.57	-2.8	-2.4
					OFF	249	0.4214	0.03387	2.522	60.54	-2.8	-4.4
103	6	2	12	3	8 ON	2733	0.3929	0.03315	2.468	59.24	-2.8	-5.5
					OFF	30	0.3988	0.03298	2.456	58.93	-2.8	-5.6
103	6	3	11	3	8 ON	2826	0.3863	0.03259	2.427	58.25	-2.8	-5.9
					OFF	29	0.3845	0.03244	2.416	57.98	-2.8	-6.0
104	3	1	120	3	8 ON	2525	0.4112	0.03470	2.584	62.01	-2.8	-3.4
					OFF	293	0.3871	0.03266	2.432	58.37	-2.8	-5.8
112	2	1	20	3	8 ON	1597	0.4309	0.03636	2.707	64.98	-2.8	-1.3
					OFF	47	0.4331	0.03654	2.721	65.31	-2.8	-0.9
112	7	0	16	3	8 ON	2856	0.3642	0.03242	2.414	57.93	-2.8	-3.5
					OFF	42	0.3815	0.03219	2.397	57.54	-2.8	-3.4
114	2	1	15	3	8 ON	1526	0.4255	0.03590	2.674	64.17	-2.8	-2.2
					OFF	36	0.4276	0.03608	2.686	64.48	-2.8	-1.9
114	2	2	21	3	8 ON	1675	0.4346	0.03667	2.730	65.53	-2.8	-0.7
					OFF	48	0.4362	0.03681	2.741	65.70	-2.8	-0.3
115	4	1	53	3	8 ON	1552	0.4284	0.03615	2.692	64.60	-2.8	-1.9
					OFF	122	0.4344	0.03665	2.729	65.50	-2.8	-0.9
115	4	2	22	3	8 ON	1742	0.4369	0.03686	2.745	65.80	-2.8	-0.3
					OFF	52	0.4382	0.03697	2.753	66.07	-2.8	-0.0
117	4	1	10	3	8 ON	2527	0.4110	0.03468	2.583	61.98	-2.8	-1.6
					OFF	49	0.4072	0.03436	2.558	61.40	-2.8	-1.9
118	3	1	36	3	8 ON	2457	0.4167	0.03516	2.618	62.03	-2.8	-1.1
					OFF	90	0.4096	0.03456	2.574	61.77	-2.8	-1.0
118	3	2	11	3	8 ON	2719	0.3941	0.03325	2.476	59.43	-2.8	-3.3
					OFF	30	0.3917	0.03305	2.461	59.07	-2.8	-3.5
119	3	1	14	3	8 ON	2272	0.4292	0.03622	2.697	64.73	-2.8	-0.0
					OFF	35	0.4274	0.03606	2.685	64.45	-2.8	-0.2
119	3	2	17	3	8 ON	2473	0.4207	0.03550	2.643	63.44	-2.8	-0.0
					OFF	42	0.4178	0.03526	2.625	63.01	-2.8	-1.0
119	3	3	12	3	8 ON	2632	0.4022	0.03393	2.527	60.65	-2.8	-2.6
					OFF	30	0.3996	0.03373	2.512	60.28	-2.8	-2.8
120	5	1	04	3	8 ON	2425	0.4191	0.03537	2.634	63.21	-2.8	-1.0
					OFF	199	0.4030	0.03401	2.532	60.77	-2.8	-2.6
127	2	1	13	3	8 ON	1259	0.4065	0.03430	2.554	61.30	-2.8	-6.1
					OFF	34	0.4091	0.03452	2.571	61.70	-2.8	-5.8
120	2	1	10	3	8 ON	1596	0.4309	0.03635	2.707	64.97	-2.8	-2.9
					OFF	46	0.4330	0.03653	2.720	65.29	-2.8	-2.5
128	4	0	16	3	8 ON	2855	0.3873	0.03268	2.433	58.40	-2.1	-3.7
					OFF	42	0.3846	0.03246	2.417	58.00	-2.1	-3.6
130	6	1	75	3	8 ON	1367	0.4167	0.03533	2.631	63.13	-2.1	-4.5
					OFF	175	0.4309	0.03635	2.707	64.97	-2.1	-2.8
130	6	2	21	3	8 ON	1675	0.4378	0.03694	2.751	66.03	-2.1	-1.5

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						OFF	49	0.4396	0.03709	2.762	66.28	-2.1	-1.1
131	4	1	53	3	8	ON	1550	0.4315	0.03641	2.711	65.87	-2.1	-2.7
						OFF	121	0.4376	0.03692	2.749	65.98	-2.1	-1.6
131	4	2	23	3	8	ON	1738	0.4401	0.03714	2.765	66.37	-2.1	-1.8
						OFF	52	0.4414	0.03725	2.774	66.57	-2.1	-0.6
132	4	1	116	3	8	ON	1550	0.4315	0.03641	2.711	65.87	-2.1	-2.8
						OFF	264	0.4419	0.03729	2.777	66.64	-2.1	-0.5
133	4	1	19	3	8	ON	2526	0.4142	0.03495	2.683	62.46	-2.1	-1.8
						OFF	48	0.4184	0.03463	2.578	61.88	-2.1	-2.2
134	4	1	12	3	8	ON	2456	0.4199	0.03543	2.638	63.32	-2.1	-1.2
						OFF	30	0.4178	0.03525	2.625	63.00	-2.1	-1.4
134	4	2	12	3	8	ON	2717	0.3973	0.03353	2.496	59.92	-2.1	-3.5
						OFF	30	0.3949	0.03332	2.481	59.55	-2.1	-3.7
135	4	1	47	3	8	ON	2195	0.4365	0.03683	2.743	65.82	-2.1	0.2
						OFF	111	0.4307	0.03634	2.786	64.95	-2.1	-0.2
135	4	2	17	3	8	ON	2402	0.4240	0.03578	2.664	63.94	-2.1	-0.8
						OFF	42	0.4211	0.03553	2.646	63.50	-2.1	-1.1
135	4	3	12	3	8	ON	2536	0.4134	0.03488	2.598	62.34	-2.1	-1.9
						OFF	30	0.4111	0.03469	2.583	62.00	-2.1	-2.1
135	4	4	12	3	8	ON	2629	0.4053	0.03420	2.547	61.12	-2.1	-2.7
						OFF	30	0.4029	0.03399	2.531	60.75	-2.1	-2.9
136	5	1	03	3	8	ON	2423	0.4144	0.03496	2.604	62.49	-3.9	-2.9
						OFF	190	0.3985	0.03363	2.504	60.09	-3.9	-4.6
144	2	1	2	2	8	ON	1794	0.4475	0.03776	2.812	67.48	-3.9	-0.4
						OFF	46	0.4482	0.03782	2.816	67.59	-3.9	-0.2
144	4	0	15	2	8	ON	3052	0.3815	0.03219	2.397	57.54	-3.9	-5.9
						OFF	42	0.3792	0.03200	2.383	57.19	-3.9	-5.8
146	2	1	15	2	8	ON	1703	0.4449	0.03754	2.795	67.08	-3.9	-1.0
						OFF	36	0.4460	0.03763	2.802	67.25	-3.9	-0.8
146	2	2	21	2	8	ON	1872	0.4486	0.03785	2.819	67.65	-3.9	-0.4
						OFF	49	0.4480	0.03787	2.820	67.68	-3.9	-0.3
147	4	1	54	2	8	ON	1747	0.4463	0.03766	2.804	67.30	-3.9	-0.8
						OFF	122	0.4486	0.03785	2.818	67.64	-3.9	-0.4
147	4	2	23	2	8	ON	1935	0.4468	0.03787	2.820	67.68	-3.9	-0.3
						OFF	52	0.4485	0.03784	2.818	67.63	-3.9	-0.2
149	4	1	19	2	8	ON	2723	0.4035	0.03404	2.535	60.84	-3.9	-5.2
						OFF	40	0.4000	0.03375	2.513	60.32	-3.9	-5.5
150	3	1	37	2	8	ON	2652	0.4090	0.03458	2.575	61.80	-3.9	-4.5
						OFF	90	0.4020	0.03392	2.526	60.63	-3.9	-5.4
150	3	2	12	2	8	ON	2914	0.3903	0.03293	2.452	58.86	-3.9	-6.2
						OFF	31	0.3885	0.03278	2.441	58.59	-3.9	-6.2
151	3	1	14	2	8	ON	2468	0.4253	0.03588	2.672	64.13	-3.9	-2.6
						OFF	34	0.4228	0.03567	2.657	63.76	-3.9	-2.8
151	3	2	17	2	8	ON	2599	0.4145	0.03497	2.604	62.50	-3.9	-3.9
						OFF	42	0.4111	0.03469	2.583	61.99	-3.9	-4.3
151	3	3	12	2	8	ON	2825	0.3962	0.03343	2.489	59.74	-3.9	-5.9
						OFF	30	0.3944	0.03328	2.476	59.47	-3.9	-6.0
152	3	1	125	2	8	ON	2525	0.4287	0.03550	2.643	63.44	-3.9	-3.2
						OFF	293	0.3969	0.03349	2.494	59.85	-3.9	-5.9
160	2	1	20	2	8	ON	1792	0.4474	0.03775	2.811	67.47	-3.9	-1.3
						OFF	46	0.4482	0.03782	2.816	67.59	-3.9	-1.1

160	4	0	16	2	8	ON	3050	0.3817	0.03221	2.398	57.56	-3.9	-7.0
						OFF	42	0.3794	0.03281	2.384	57.21	-3.9	-7.0
162	2	1	15	2	8	ON	1700	0.4448	0.03753	2.795	67.07	-3.9	-1.9
						OFF	35	0.4458	0.03762	2.801	67.23	-3.9	-1.7
162	2	2	21	2	8	ON	1869	0.4486	0.03785	2.819	67.65	-3.9	-1.1
						OFF	49	0.4488	0.03787	2.820	67.68	-3.9	-1.0
163	4	1	54	2	8	ON	1746	0.4518	0.03812	2.839	68.13	-2.7	-0.4
						OFF	121	0.4541	0.03832	2.853	68.48	-2.7	0.1
163	4	2	23	2	8	ON	1934	0.4544	0.03834	2.855	68.52	-2.7	0.3
						OFF	52	0.4541	0.03831	2.853	68.47	-2.7	0.3
164	4	1	117	2	8	ON	1747	0.4518	0.03812	2.839	68.13	-2.7	-0.5
						OFF	263	0.4537	0.03829	2.851	68.42	-2.7	0.3
165	4	1	19	2	8	ON	2721	0.4087	0.03449	2.568	61.63	-2.7	-4.8
						OFF	49	0.4051	0.03418	2.545	61.09	-2.7	-5.1
166	3	1	36	2	8	ON	2650	0.4151	0.03503	2.608	62.60	-2.7	-4.0
						OFF	90	0.4073	0.03436	2.559	61.41	-2.7	-5.0
166	3	2	11	2	8	ON	2911	0.3953	0.03336	2.484	59.62	-2.7	-5.9
						OFF	30	0.3936	0.03321	2.473	59.35	-2.7	-5.9
167	3	1	14	2	8	ON	2466	0.4307	0.03634	2.706	64.95	-2.7	-2.0
						OFF	34	0.4282	0.03613	2.691	64.58	-2.7	-2.3
167	3	2	17	2	8	ON	2597	0.4198	0.03542	2.638	63.30	-2.7	-3.4
						OFF	42	0.4164	0.03513	2.616	62.79	-2.7	-3.9
167	3	3	11	2	8	ON	2823	0.4213	0.03386	2.521	60.51	-2.7	-5.6
						OFF	30	0.3994	0.03370	2.510	60.23	-2.7	-5.7
168	3	1	12	2	8	ON	2523	0.4261	0.03595	2.677	64.26	-2.7	-2.7
						OFF	293	0.4219	0.03391	2.525	60.61	-2.7	-5.5
175	2	1	14	2	8	ON	1454	0.4368	0.03686	2.744	65.87	-2.7	-3.5
						OFF	34	0.4389	0.03704	2.758	66.19	-2.7	-3.3
176	3	1	57	2	8	ON	1404	0.4332	0.03655	2.722	65.32	-2.7	-3.9
						OFF	132	0.4420	0.03730	2.777	66.66	-2.7	-3.1
176	3	2	2	2	8	ON	1791	0.4532	0.03822	2.846	68.31	-2.7	-1.5
						OFF	46	0.4538	0.03829	2.851	68.43	-2.7	-1.3
176	4	0	16	2	8	ON	3048	0.3866	0.03262	2.429	58.29	-2.7	-7.2
						OFF	42	0.3842	0.03242	2.414	57.94	-2.7	-7.2

RATE ESTIMATE

AFT PAN CAMERA NUMBER 195

OP.	NO	FR	R	A	TUR/	INST	INST	SCAN	RATE	PCT	RATE		
					DUP	CPS	ANG	VEL	R/SEC	I/SEC	CALIB	REQD	
82	6	2	21	3	8	ON	1887	0.4233	0.03572	2.660	63.83	-7.6	-5.1
						OFF	48	0.4235	0.03573	2.661	63.85	-7.6	-4.8
82	0	0	3	3	8	ON	12	0.3292	0.02778	2.068	49.64	-7.6	-25.3
						OFF	23	0.3292	0.02778	2.068	49.64	-7.6	-25.0
83	4	1	54	3	8	ON	1751	0.4210	0.03552	2.645	63.48	-7.6	-6.2
						OFF	123	0.4232	0.03571	2.659	63.82	-7.6	-5.4
83	4	2	23	3	8	ON	1949	0.4234	0.03573	2.660	63.85	-7.6	-5.0
						OFF	51	0.4231	0.03570	2.658	63.80	-7.6	-4.8
84	4	1	11	3	8	ON	1761	0.4210	0.03552	2.645	63.48	-7.6	-6.3
						OFF	264	0.4228	0.03567	2.656	63.75	-7.6	-4.7
85	4	1	19	3	8	ON	2735	0.3700	0.03190	2.375	57.00	-7.6	-8.7

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						OFF	49	0.3745	0.03168	2.353	56.48	-7.6	-9.8
86	4	1	12	3	8	ON	2666	0.3842	0.03242	2.414	57.94	-7.6	-8.8
						OFF	30	0.3818	0.03222	2.399	57.58	-7.6	-8.2
86	4	2	11	3	8	ON	2927	0.3648	0.03078	2.292	55.81	-7.6	-9.6
						OFF	30	0.3630	0.03063	2.281	54.74	-7.6	-9.6
87	4	1	46	3	8	ON	2485	0.4055	0.03421	2.548	61.15	-7.6	-5.5
						OFF	111	0.3973	0.03352	2.496	59.91	-7.6	-6.4
87	4	2	16	3	8	ON	2612	0.3898	0.03282	2.444	58.66	-7.6	-7.4
						OFF	42	0.3856	0.03254	2.423	58.15	-7.6	-7.8
87	4	3	11	3	8	ON	2746	0.3771	0.03182	2.369	56.87	-7.6	-8.9
						OFF	30	0.3751	0.03165	2.357	56.56	-7.6	-9.8
87	4	4	11	3	8	ON	2839	0.3706	0.03127	2.329	55.89	-7.6	-9.3
						OFF	29	0.3689	0.03113	2.318	55.63	-7.6	-9.4
88	3	1	122	3	8	ON	2538	0.4169	0.03518	2.619	62.87	-2.5	-1.1
						OFF	293	0.3917	0.03305	2.461	59.87	-2.5	-3.6
90	3	0	22	3	8	ON	1604	0.4372	0.03689	2.747	65.93	-2.5	-2.5
						OFF	51	0.4397	0.03718	2.763	66.30	-2.5	-2.1
96	2	1	20	3	8	ON	1825	0.4452	0.03756	2.797	67.13	-2.5	-1.1
						OFF	47	0.4460	0.03763	2.802	67.26	-2.5	-0.8
96	2	0	15	3	8	ON	3063	0.3757	0.03170	2.360	56.65	-2.5	-4.7
						OFF	42	0.3732	0.03149	2.345	56.28	-2.5	-4.6
98	2	1	15	3	8	ON	1714	0.4424	0.03733	2.780	66.71	-2.5	-2.0
						OFF	36	0.4436	0.03743	2.787	66.89	-2.5	-1.7
98	2	2	2	3	8	ON	1884	0.4464	0.03767	2.805	67.32	-2.5	-0.7
						OFF	40	0.4466	0.03769	2.806	67.35	-2.5	-0.4
99	4	1	54	3	8	ON	1760	0.4440	0.03746	2.790	66.95	-2.5	-1.7
						OFF	122	0.4464	0.03766	2.805	67.31	-2.5	-0.7
99	4	2	23	3	8	ON	1940	0.4466	0.03768	2.806	67.35	-2.5	-0.3
						OFF	51	0.4463	0.03765	2.804	67.29	-2.5	-0.1
100	4	1	110	3	8	ON	1760	0.4440	0.03746	2.790	66.95	-2.5	-1.7
						OFF	264	0.4459	0.03763	2.802	67.24	-2.5	-0.1
101	4	1	10	3	8	ON	2735	0.3988	0.03365	2.505	60.13	-2.5	-3.8
						OFF	40	0.3951	0.03334	2.482	59.58	-2.5	-4.1
102	6	1	30	3	8	ON	2665	0.4012	0.03386	2.521	60.51	-3.5	-4.1
						OFF	90	0.3931	0.03317	2.470	59.20	-3.5	-5.0
102	6	2	11	3	8	ON	2926	0.3809	0.03214	2.393	57.44	-3.5	-5.8
						OFF	30	0.3791	0.03199	2.382	57.17	-3.5	-5.8
102	6	3	56	3	8	ON	3106	0.3644	0.03075	2.289	54.95	-3.5	-5.9
						OFF	152	0.3566	0.03009	2.240	53.77	-3.5	-5.2
103	6	1	100	3	8	ON	2404	0.4234	0.03573	2.660	63.85	-3.5	-1.8
						OFF	249	0.4226	0.03397	2.530	60.72	-3.5	-4.0
103	6	2	12	3	8	ON	2745	0.3938	0.03323	2.474	59.30	-3.5	-5.0
						OFF	30	0.3917	0.03305	2.461	59.06	-3.5	-5.2
103	6	3	11	3	8	ON	2836	0.3070	0.03265	2.432	58.36	-3.5	-5.5
						OFF	29	0.3052	0.03250	2.420	58.08	-3.5	-5.6
104	3	1	121	3	8	ON	2537	0.4127	0.03483	2.593	62.24	-3.5	-2.9
						OFF	293	0.3870	0.03272	2.437	58.48	-3.5	-5.5
112	2	1	20	3	8	ON	1609	0.4331	0.03654	2.721	65.31	-3.5	-0.8
						OFF	47	0.4353	0.03673	2.735	65.64	-3.5	-0.4
112	7	0	10	3	8	ON	2870	0.3848	0.03247	2.418	58.03	-3.5	-3.1
						OFF	42	0.3821	0.03224	2.401	57.62	-3.5	-3.0

114	2	1	15	3	8	ON	1518	0.4275	0.03687	2.686	64.47	-3.5	-1.8
						OFF	36	0.4296	0.03625	2.699	64.79	-3.5	-1.5
114	2	2	21	3	8	ON	1687	0.4368	0.03686	2.745	65.87	-3.5	-0.2
						OFF	48	0.4386	0.03701	2.756	66.14	-3.5	0.2
115	4	1	53	3	8	ON	1564	0.4385	0.03632	2.705	64.91	-3.5	-1.5
						OFF	122	0.4366	0.03684	2.743	65.84	-3.5	-0.4
115	4	2	23	3	8	ON	1752	0.4392	0.03706	2.760	66.24	-3.5	0.2
						OFF	52	0.4406	0.03717	2.768	66.44	-3.5	0.6
116	4	1	117	3	8	ON	1553	0.4304	0.03632	2.704	64.91	-3.5	-1.6
						OFF	264	0.4411	0.03721	2.771	66.51	-3.5	0.6
117	4	1	19	3	8	ON	2539	0.4126	0.03481	2.592	62.21	-3.5	-1.1
						OFF	49	0.4086	0.03448	2.567	61.61	-3.5	-1.4
118	3	1	36	3	8	ON	2469	0.4184	0.03530	2.629	63.09	-3.5	-0.6
						OFF	90	0.4111	0.03469	2.583	61.99	-3.5	-1.3
118	3	2	11	3	8	ON	2731	0.3951	0.03334	2.482	59.58	-3.5	-2.9
						OFF	30	0.3926	0.03313	2.467	59.21	-3.5	-3.0
119	3	1	14	3	8	ON	2284	0.4313	0.03648	2.710	65.05	-3.5	0.6
						OFF	35	0.4294	0.03624	2.698	64.76	-3.5	0.4
119	3	2	17	3	8	ON	2415	0.4226	0.03565	2.655	63.72	-3.5	-0.2
						OFF	42	0.4196	0.03540	2.636	63.27	-3.5	-0.5
119	3	3	12	3	8	ON	2642	0.4034	0.03404	2.535	60.83	-3.5	-2.1
						OFF	30	0.4009	0.03383	2.519	60.46	-3.5	-2.3
120	5	1	84	3	8	ON	2437	0.4209	0.03552	2.645	63.47	-3.5	-0.5
						OFF	199	0.4043	0.03411	2.540	60.96	-3.5	-2.1
127	2	1	13	3	8	ON	1271	0.4079	0.03441	2.563	61.50	-3.5	-5.9
						OFF	34	0.4106	0.03465	2.580	61.92	-3.5	-5.6
128	2	1	19	3	8	ON	1606	0.4330	0.03654	2.721	65.30	-3.5	-2.4
						OFF	46	0.4352	0.03672	2.735	65.63	-3.5	-2.0
128	4	2	16	3	8	ON	2867	0.3862	0.03259	2.427	58.24	-3.2	-3.7
						OFF	42	0.3835	0.03236	2.410	57.83	-3.2	-3.7
130	6	1	76	3	8	ON	1379	0.4185	0.03531	2.630	63.11	-3.2	-4.6
						OFF	175	0.4310	0.03637	2.708	65.00	-3.2	-2.8
130	6	2	21	3	8	ON	1687	0.4382	0.03698	2.754	66.08	-3.2	-1.4
						OFF	49	0.4400	0.03713	2.765	66.35	-3.2	-1.0
131	4	1	53	3	8	ON	1562	0.4317	0.03643	2.713	65.11	-3.2	-2.7
						OFF	121	0.4300	0.03695	2.752	66.04	-3.2	-1.5
131	4	2	23	3	8	ON	1752	0.4406	0.03718	2.768	66.44	-3.2	-0.9
						OFF	52	0.4419	0.03729	2.777	66.64	-3.2	-0.5
132	4	1	117	3	8	ON	1562	0.4317	0.03643	2.713	65.10	-3.2	-2.8
						OFF	264	0.4424	0.03733	2.780	66.72	-3.2	-0.4
133	4	1	19	3	8	ON	2539	0.4139	0.03493	2.601	62.42	-3.2	-1.8
						OFF	48	0.4100	0.03459	2.576	61.82	-3.2	-2.1
134	4	1	12	3	8	ON	2466	0.4198	0.03542	2.638	63.31	-3.2	-1.1
						OFF	30	0.4176	0.03524	2.624	62.98	-3.2	-1.3
134	4	2	11	3	8	ON	2729	0.3966	0.03346	2.492	59.88	-3.2	-3.5
						OFF	30	0.3940	0.03325	2.476	59.42	-3.2	-3.7
135	4	1	47	3	8	ON	2207	0.4368	0.03686	2.745	65.88	-3.2	0.4
						OFF	111	0.4309	0.03636	2.708	64.98	-3.2	-0.0
135	4	2	17	3	8	ON	2414	0.4240	0.03578	2.664	63.94	-3.2	-0.7
						OFF	42	0.4210	0.03553	2.645	63.49	-3.2	-1.0
135	4	3	12	3	8	ON	2548	0.4131	0.03486	2.596	62.30	-3.2	-1.8

SECRET

					OFF	38	0.4188	0.83466	2.581	61.94	-3.2	-2.8
135	4	4	12	3	8 ON	2641	0.4848	0.83415	2.543	61.84	-3.2	-2.7
					OFF	38	0.4823	0.83394	2.528	60.66	-3.2	-2.9
136	5	1	84	3	8 ON	2435	0.4142	0.83495	2.683	62.46	-5.1	-2.8
					OFF	198	0.3979	0.83357	2.588	60.88	-5.1	-4.6
144	2	1	22	2	8 ON	1886	0.4479	0.83788	2.815	67.55	-5.1	-8.3
					OFF	46	0.4487	0.83786	2.819	67.67	-5.1	-8.1
144	4	8	15	2	8 ON	3864	0.3882	0.83288	2.389	57.33	-5.1	-6.1
					OFF	42	0.3778	0.83188	2.374	56.97	-5.1	-6.8
146	2	1	15	2	8 ON	1715	0.4453	0.83757	2.798	67.14	-5.1	-8.9
					OFF	36	0.4464	0.83767	2.885	67.31	-5.1	-8.8
146	2	2	21	2	8 ON	1884	0.4491	0.83798	2.822	67.73	-5.1	-8.2
					OFF	49	0.4493	0.83791	2.823	67.76	-5.1	-8.1
147	4	1	54	2	8 ON	1759	0.4467	0.83769	2.887	67.37	-5.1	-8.7
					OFF	122	0.4491	0.83789	2.822	67.72	-5.1	-8.3
147	4	2	23	2	8 ON	1947	0.4493	0.83791	2.823	67.75	-5.1	-8.1
					OFF	52	0.4498	0.83788	2.821	67.78	-5.1	-8.8
149	4	1	19	2	8 ON	2735	0.4827	0.83398	2.538	68.72	-5.1	-5.3
					OFF	48	0.3991	0.83368	2.588	68.19	-5.1	-5.6
150	3	1	37	2	8 ON	2664	0.4292	0.83453	2.571	61.71	-5.1	-4.5
					OFF	98	0.4212	0.83386	2.521	60.58	-5.1	-5.5
150	3	2	12	2	8 ON	2926	0.3892	0.83284	2.445	58.69	-5.1	-6.3
					OFF	31	0.3873	0.83268	2.434	58.41	-5.1	-6.3
151	3	1	14	2	8 ON	2482	0.4251	0.83587	2.671	64.18	-5.1	-2.5
					OFF	34	0.4226	0.83566	2.655	63.72	-5.1	-2.8
151	3	2	17	2	8 ON	2611	0.4148	0.83493	2.681	62.43	-5.1	-3.9
					OFF	42	0.4185	0.83464	2.579	61.91	-5.1	-4.3
151	3	3	12	2	8 ON	2837	0.3952	0.83335	2.483	59.68	-5.1	-6.8
					OFF	38	0.3934	0.83319	2.472	59.32	-5.1	-6.1
152	3	1	125	2	8 ON	2537	0.4284	0.83547	2.642	63.48	-5.1	-3.1
					OFF	293	0.3959	0.83341	2.488	59.78	-5.1	-6.8
162	2	1	29	2	8 ON	1824	0.4479	0.83779	2.814	67.54	-5.1	-1.2
					OFF	46	0.4487	0.83786	2.819	67.66	-5.1	-1.8
162	4	8	16	2	8 ON	3862	0.3883	0.83289	2.398	57.35	-5.1	-7.2
					OFF	42	0.3779	0.83189	2.375	56.99	-5.1	-7.1
162	2	1	15	2	8 ON	1712	0.4452	0.83756	2.797	67.13	-5.1	-1.8
					OFF	35	0.4463	0.83766	2.884	67.38	-5.1	-1.6
162	2	2	21	2	8 ON	1881	0.4491	0.83789	2.822	67.72	-5.1	-1.8
					OFF	49	0.4493	0.83791	2.823	67.76	-5.1	-8.8
163	4	1	54	2	8 ON	1758	0.4581	0.83798	2.828	67.88	-4.4	-8.8
					OFF	121	0.4525	0.83818	2.843	68.23	-4.4	-8.3
163	4	2	23	2	8 ON	1946	0.4528	0.83828	2.845	68.27	-4.4	-8.1
					OFF	52	0.4524	0.83817	2.843	68.22	-4.4	8.8
165	4	1	19	2	8 ON	2733	0.4868	0.83426	2.551	61.23	-4.4	-5.3
					OFF	49	0.4823	0.83395	2.528	60.67	-4.4	-5.7
166	3	1	36	2	8 ON	2662	0.4126	0.83481	2.592	62.21	-4.4	-4.5
					OFF	98	0.4145	0.83413	2.542	61.88	-4.4	-5.5
166	3	2	11	2	8 ON	2923	0.3923	0.83311	2.465	59.16	-4.4	-6.5
					OFF	38	0.3985	0.83295	2.454	58.89	-4.4	-6.6
167	3	1	14	2	8 ON	2478	0.4285	0.83616	2.692	64.62	-4.4	-2.5
					OFF	34	0.4268	0.83594	2.677	64.24	-4.4	-2.7

167	3	2	17	2	8	ON	2609	0.4174	0.83522	2.622	62.94	-4.4	-3.9
						OFF	42	0.4139	0.83492	2.688	62.41	-4.4	-4.4
167	3	3	11	2	8	ON	2835	0.3984	0.83361	2.583	68.87	-4.4	-6.2
						OFF	38	0.3965	0.83346	2.491	59.79	-4.4	-6.3
168	3	1	125	2	8	ON	2535	0.4238	0.83576	2.663	63.91	-4.4	-3.1
						OFF	293	0.3991	0.83367	2.587	68.18	-4.4	-6.1
175	2	1	14	2	8	ON	1466	0.4347	0.83668	2.732	65.56	-4.4	-4.1
						OFF	34	0.4369	0.83687	2.745	65.89	-4.4	-3.9
176	3	1	57	2	8	ON	1416	0.4318	0.83637	2.788	65.88	-4.4	-4.6
						OFF	132	0.4481	0.83714	2.765	66.37	-4.4	-3.7
176	3	2	22	2	8	ON	1803	0.4513	0.83888	2.836	68.86	-4.4	-1.9
						OFF	46	0.4521	0.83815	2.841	68.18	-4.4	-1.7
176	4	8	15	2	8	ON	3068	0.3833	0.83235	2.489	57.81	-4.4	-7.9
						OFF	42	0.3818	0.83214	2.394	57.45	-4.4	-7.9

RAMP PROFILE

R= 3 A= 8 PERIOD) 3840

R) 2.4233 A) 0.0498

TUR	PER	CPS	ANG V
-2	2.222	0.3543	0.83284
100	2.216	0.3548	0.83289
200	2.227	0.3563	0.83223
300	2.287	0.3586	0.83245
400	2.262	0.3621	0.83275
500	2.231	0.3663	0.83313
600	2.693	0.3713	0.83358
700	2.653	0.3769	0.83489
800	2.618	0.3831	0.83465
900	2.566	0.3897	0.83524
1000	2.522	0.3965	0.83586
1100	2.478	0.4036	0.83658
1200	2.422	0.4129	0.83734
1300	2.371	0.4218	0.83815
1400	2.325	0.4301	0.83892
1500	2.286	0.4374	0.83956
1600	2.255	0.4434	0.84011
1700	2.232	0.4468	0.84052
1800	2.217	0.4512	0.84079
1900	2.211	0.4523	0.84091
2000	2.214	0.4517	0.84086
2100	2.225	0.4494	0.84065
2200	2.245	0.4455	0.84029
2300	2.273	0.4406	0.83979
2400	2.309	0.4331	0.83917
2500	2.352	0.4252	0.83846
2600	2.401	0.4165	0.83767
2700	2.455	0.4073	0.83684
2800	2.504	0.3993	0.83611
2900	2.549	0.3924	0.83549
3000	2.593	0.3857	0.83488

3100	2.636	0.3793	0.03431
3200	2.678	0.3735	0.03378
3300	2.716	0.3682	0.03330
3400	2.749	0.3637	0.03290
3500	2.778	0.3600	0.03256
3600	2.800	0.3572	0.03230
3700	2.815	0.3553	0.03213
3800	2.822	0.3544	0.03205

RAMP PROFILE

R= 2 A= B PERIOD) 3840

R) 0.4182 A) 0.0498

TUR	PER	CPS	ANG V
-0	2.709	0.3692	0.03339
100	2.705	0.3697	0.03344
200	2.694	0.3712	0.03357
300	2.676	0.3737	0.03379
400	2.652	0.3770	0.03410
500	2.623	0.3812	0.03448
600	2.589	0.3862	0.03493
700	2.552	0.3918	0.03544
800	2.513	0.3980	0.03600
900	2.472	0.4046	0.03659
1000	2.431	0.4114	0.03721
1100	2.390	0.4185	0.03785
1200	2.338	0.4270	0.03869
1300	2.290	0.4367	0.03950
1400	2.247	0.4450	0.04025
1500	2.211	0.4523	0.04091
1600	2.182	0.4583	0.04145
1700	2.150	0.4629	0.04187
1800	2.146	0.4659	0.04214
1900	2.141	0.4672	0.04225
2000	2.143	0.4666	0.04220
2100	2.154	0.4643	0.04200
2200	2.172	0.4604	0.04164
2300	2.190	0.4549	0.04114
2400	2.232	0.4480	0.04052
2500	2.272	0.4401	0.03981
2600	2.310	0.4314	0.03902
2700	2.359	0.4222	0.03819
2800	2.414	0.4142	0.03746
2900	2.455	0.4073	0.03684
3000	2.496	0.4006	0.03623
3100	2.537	0.3942	0.03566
3200	2.575	0.3884	0.03513
3300	2.610	0.3831	0.03465
3400	2.641	0.3786	0.03424
3500	2.667	0.3749	0.03391
3600	2.688	0.3721	0.03365
3700	2.701	0.3702	0.03348

CLOCK SUMMARY

ORDER FIT 1

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.594591630 05	0.2814487210 06	0.5945916980 05	-0.0068	18	
0.656485880 04	0.3149544270 06	0.6564870620 04	-0.0126	16	
0.584769420 05	0.3668665160 06	0.5847695160 05	-0.0116	26	
0.556763800 04	0.4003572250 06	0.5567655440 04	-0.0174	32	
0.574574780 05	0.4522470520 06	0.5745747440 05	0.0036	42	
0.452987820 04	0.4857194390 06	0.4529856280 04	0.0217	48	
0.563891130 05	0.7077890000 03	0.5638911030 05	0.0027	58	
0.338817120 04	0.3410682500 05	0.3388141120 04	0.0299	64	
0.554429350 05	0.8576162700 05	0.5504293520 05	-0.0002	74	
0.207594820 04	0.1191946420 06	0.2075944990 04	0.0030	80	
0.548996560 05	0.1712185490 06	0.5489984480 05	0.0120	90	
0.111350980 04	0.2046322240 06	0.1113513810 04	-0.0048	96	
0.520330580 05	0.2563517760 06	0.5283305780 05	0.0002	106	
0.863417530 05	0.2898604620 06	0.8634173870 05	0.0143	112	
0.517953620 05	0.3417141060 06	0.5179537470 05	-0.0067	122	
0.852426120 05	0.3751613600 06	0.8524262350 05	-0.0115	128	
0.506566980 05	0.4269753450 06	0.5065660050 05	-0.0025	138	
0.848724700 05	0.4603912230 06	0.8487247340 05	-0.0034	144	
0.494459720 05	0.5121647370 06	0.4944597940 05	-0.0064	154	
0.827906780 05	0.8638543000 04	0.8279069220 05	-0.0142	160	
0.481696380 05	0.6041747960 05	0.4816962020 05	0.0178	170	
0.813137530 05	0.9356162400 05	0.8131376010 05	-0.0071	176	
A2) -0.22198957780 06 A1) 0.9999998457250 00					
SIGMA) 0.21182 NO. POINTS) 22					
RATIO OF CLOCK TIME TO SYS TIME) 0.1000000154280 01					

ORDER FIT 2

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.594591630 05	0.2814487210 06	0.5945916160 05	0.0014	18	
0.656485880 04	0.3149544270 06	0.6564864300 04	-0.0063	16	
0.584769420 05	0.3668665160 06	0.5847694790 05	-0.0079	26	
0.556763800 04	0.4003572250 06	0.5567653300 04	-0.0153	32	
0.574574780 05	0.4522470520 06	0.5745747440 05	0.0036	42	
0.452987820 04	0.4857194390 06	0.4529857340 04	0.0207	48	
0.563891130 05	0.7077890000 03	0.5638911280 05	0.0002	58	
0.338817120 04	0.3410682500 05	0.3388144420 04	0.0266	64	
0.554429350 05	0.8576162700 05	0.5504293930 05	-0.0043	74	
0.207594820 04	0.1191946420 06	0.2075949550 04	-0.0015	80	
0.548996560 05	0.1712185490 06	0.5489984880 05	0.0072	90	
0.111350980 04	0.2046322240 06	0.1113518660 04	-0.0097	96	
0.520330580 05	0.2563517760 06	0.5283306240 05	-0.0044	106	
0.863417530 05	0.2898604620 06	0.8634174280 05	0.0102	112	
0.517953620 05	0.3417141060 06	0.5179537800 05	-0.0100	122	
0.852426120 05	0.3751613600 06	0.8524262680 05	-0.0140	128	
0.506566980 05	0.4269753450 06	0.5065660160 05	-0.0036	138	

0.846724720 05	0.4603912230 06	0.8487247330 05	-0.0033	144
0.494459730 05	0.5121647370 06	0.4944597720 05	-0.0042	154
0.827926780 05	0.8638543000 04	0.8279068860 05	-0.0106	168
0.481696380 05	0.6041747900 05	0.4816961390 05	0.0241	178
0.813137530 05	0.9356162400 05	0.8131375190 05	0.0011	176

A0)-R.2219895379D 06 A1) 0.999999942385D 00
A2)-E.6670305312681D-13
SIGMA)0.01104 NO. POINTS) 22

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 194

OPN NO	FR		H	M	S	DEC	BINARY		
82	6	1	78	ON	3	12	43	128562	00111101010011011001101010000
				OFF	3	13	39	128737	001111010110000101111011101000
82	2	0	3	ON	3	28	41	129640	00111101110100010011001000000
				OFF	3	29	4	129663	0011110111010100000000000011000
83	4	1	54	ON	4	41	50	134029	00111111111010001111011001000
				OFF	4	43	53	134152	00111111111101111111101000000
83	4	2	22	ON	4	44	59	134217	001111111111111111110100101000
				OFF	4	45	50	134260	01000000000001100010001100000
84	4	1	117	ON	6	12	38	139357	0100001001110011010101001000
				OFF	6	15	2	139621	01000010100100111001010001000
85	4	1	19	ON	7	55	40	145658	01000101011101001000010010000
				OFF	7	56	29	145707	010001010111101001111111111000
86	4	1	11	ON	9	23	16	150915	01000111111101100011110111000
				OFF	9	23	46	150945	01000111111110011110011101000
86	4	2	11	ON	9	27	37	151176	01001000000101100001101000000
				OFF	9	28	7	151206	01001000000110011100001110000
87	4	1	45	ON	10	47	41	155900	01001010011000001000011100000
				OFF	10	49	32	156091	01001010011011100001001111000
87	4	2	10	ON	10	51	9	156187	01001010011110011100101111000
				OFF	10	51	51	156229	01001010011111101110110001000
87	4	3	11	ON	10	53	22	156321	01001010100010100010011101000
				OFF	10	53	52	156351	01001010100011011101000011000
87	4	4	11	ON	10	54	56	156414	010010101001010101000000110000
				OFF	10	55	25	156443	010010101001100100000101111000
88	3	1	121	ON	12	18	41	161439	01001100111110101110100011000
				OFF	12	23	34	161732	01001101000111101010110100000
90	3	0	22	ON	15	0	39	171158	01010001100111010100111110000
				OFF	15	1	30	171209	01010001101000111000100101000
96	2	1	27	ON	23	56	31	203309	011000001111000111111111001000
				OFF	23	57	10	203356	011000001111011111011101100000
96	2	0	15	ON	0	17	29	204567	0110000110001011000111011000
				OFF	0	18	11	204609	01100001100100001010111101000
98	2	1	15	ON	2	52	20	213066	01100101111110101011000010000
				OFF	2	53	4	213002	01100101111111110001010110000
98	2	2	27	ON	2	55	17	214036	01100110000011110111000100000
				OFF	2	56	5	214084	01100110000101010100110100000
99	4	1	54	ON	4	21	57	219236	01101000100010100010101000000
				OFF	4	23	50	219350	01101000100110010001100110000

99	4	2	22	ON	4	25	5	219424	01101000101000010010100000000
				OFF	4	25	56	219475	01101000101001110110000111000
100	4	1	117	ON	5	50	41	224560	01101011000101000001110000000
				OFF	5	55	5	224824	01101011001101000101011000000
101	4	1	19	ON	7	35	42	230859	011011100001010100000111111000
				OFF	7	36	28	230907	01101110000110101110001111000
102	6	1	36	ON	9	3	15	236113	01110000100101100110001101000
				OFF	9	4	45	236203	01110000101000010101111111000
102	6	2	11	ON	9	7	36	236374	01110000101011000111111110000
				OFF	9	8	6	236404	01110000101110011110100100000
102	6	3	56	ON	9	11	56	236634	01110000110101011111110010000
				OFF	9	14	28	236786	01110000111010001000101010000
103	6	1	104	ON	10	27	36	241174	011100110000000000010111110000
				OFF	10	31	45	241423	01110011000111101001010011000
103	6	2	12	ON	10	33	17	241515	01110011001010011100111111000
				OFF	10	33	47	241545	01110011001011010111100101000
103	6	3	11	ON	10	34	50	241609	01110011001010101001001010000
				OFF	10	35	19	241630	01110011001110001101001110000
104	3	1	120	ON	11	50	32	246631	01110101100110100101001011000
				OFF	12	3	25	246924	01110101101111100001011100000
112	2	1	27	ON	23	36	57	208535	10001001100101011000111011000
				OFF	23	37	44	208582	10001001100110110100101110000
112	7	0	10	ON	23	57	57	209796	10001010001011110111110100000
				OFF	23	50	39	209838	10001010001101001001110110000
114	2	1	17	ON	2	33	12	299110	10001110101000000111001110000
				OFF	2	33	40	299146	10001110101001001101100010000
114	2	2	21	ON	2	36	2	299200	10001110101101010011010000000
				OFF	2	36	50	299320	10001110101110110001000000000
115	4	1	53	ON	4	2	50	304400	10010001001100001110010000000
				OFF	4	4	52	304610	10010001001111111101011010000
115	4	2	22	ON	4	5	50	304677	1001000101001000000000010001000
				OFF	4	6	50	304729	10010001010011100101110101000
117	4	1	10	ON	7	16	51	316130	10010110101111100001011010000
				OFF	7	17	40	316179	10010110110001000001000111000
118	3	1	30	ON	8	44	32	321391	10011001010000000100110011000
				OFF	8	46	2	321481	10011001010010101010010010100
118	3	2	11	ON	8	48	54	321653	10011001011000000100100001000
				OFF	8	49	24	321603	10011001011000111111000111000
119	3	1	14	ON	10	10	19	325537	10011011101101000111100101000
				OFF	10	10	54	325572	10011011101110001011111100000
119	3	2	17	ON	10	12	30	326660	10011011110001000111011100000
				OFF	10	13	12	326710	100110111100100100100101110000
119	3	3	12	ON	10	16	16	326095	10011011111000000101100110000
				OFF	10	16	46	326925	10011011111000111101011001000
120	5	1	04	ON	11	41	43	332022	10011110010101000000111100000
				OFF	11	45	2	332221	10011110011010100101010010000
127	2	1	13	ON	21	44	11	360172	10101111100011101010000010000
				OFF	21	44	45	360204	10101111100100101100011100000
120	2	1	10	ON	23	10	39	373037	10110010010000100110011001000
				OFF	23	19	25	373063	10110010010010000000011110000
120	4	0	10	ON	23	39	30	375096	10110010110111000001011000000

				OFF	23	40	20	375138	10110010111000010011011010000
130	6	1	75	ON	2	12	29	384268	1011011100111011011011100000
				OFF	2	15	24	384443	10110111010100010001001111000
130	6	2	21	ON	2	17	37	384576	101101110110000010101000000000
				OFF	2	18	26	384625	101101110110011101000101101000
131	4	1	53	ON	3	44	21	389780	10111001110111001001000100000
				OFF	3	46	22	389921	101110011110101101010101001000
131	4	2	23	ON	3	47	29	389968	101110011111001110000100000000
				OFF	3	48	21	392020	101110011111100111011101000000
132	4	1	116	ON	5	13	9	395108	10111100011001101111010100000
				OFF	5	17	33	395372	10111100100001110010111100000
133	4	1	19	ON	6	58	13	401412	10111111011010000111110100000
				OFF	6	59	1	401460	10111111011011100101100100000
134	4	1	12	ON	8	25	52	406670	11000001111010100101010110000
				OFF	8	26	22	406700	11000001111011011111111100000
134	4	2	12	ON	6	30	13	406931	11000010000010100011000111000
				OFF	6	30	43	406961	1100001000001011101101101000
135	4	1	47	ON	9	50	19	411737	11000100010101001101110101000
				OFF	9	52	10	411848	11000100011000100110101000000
135	4	2	17	ON	9	53	46	411944	11000100011011100010001000000
				OFF	9	54	28	411986	11000100011100110100001010000
135	4	3	12	ON	9	56	0	412078	11000100011111100111110110000
				OFF	9	56	30	412108	11000100100000100010011100000
135	4	4	12	ON	9	57	32	412171	11000100100010011101011111000
				OFF	9	58	2	412201	11000100100011011000000101000
136	5	1	23	ON	11	22	55	417294	11000110111110110011010110000
				OFF	11	26	13	417492	1100011000100110110000100000
144	2	1	2	ON	22	59	9	459068	1101010111001101001001100000
				OFF	22	59	55	459114	1101010111011000011000010000
144	4	0	15	ON	23	20	8	460326	11010111000000000010001110000
				OFF	23	20	50	460360	1101011100001010100010000000
146	2	1	15	ON	1	55	8	469627	1101111111011111000001111000
				OFF	1	55	44	469663	110111111110011110100011000
146	2	2	21	ON	1	57	57	469795	11100000000001000000010111000
				OFF	1	58	46	469844	111000000001010000000100000
147	4	1	54	ON	3	24	37	474996	11100010011111101110100100000
				OFF	3	26	39	475110	11100010100011011100110110000
147	4	2	23	ON	3	27	46	475184	11100010100101011101110000000
				OFF	3	28	38	475236	11100010100111000011010100000
149	4	1	19	ON	6	36	21	486620	11101000000010011101101100000
				OFF	6	39	9	486668	1110100000001111011011100000
150	3	1	37	ON	8	5	54	491872	1110101010001010111100000000
				OFF	8	7	24	491962	1110101010010101111010010000
150	3	2	12	ON	8	18	16	492134	11101010101010101111001110000
				OFF	8	10	47	492165	1110101010101110101110001000
151	3	1	14	ON	9	31	33	497011	11101100111111100100100111000
				OFF	9	32	7	497045	11101101000000100111000001000
151	3	2	17	ON	9	33	44	497142	11101101000011100100011110000
				OFF	9	34	26	497184	11101101000100110110100000000
151	3	3	12	ON	9	37	29	497368	111011010010100011101111000000
				OFF	9	37	59	497398	11101101001011011000011110000

~~TOP SECRET~~

152	3	1	125	ON	11	1	14	502392	111011111000111100100110000000
				OFF	11	6	7	502685	11101111101100101110101001000
160	2	1	28	CN	22	38	38	7365	00000011100000110000110001000
				OFF	22	39	24	7411	00000011100010001010100111000
160	4	0	16	CN	22	59	35	8623	00000100000111001001110011000
				OFF	23	0	17	8665	00000100001000011011110101000
162	2	1	15	CN	1	34	26	17914	00001000100010101100010010000
				OFF	1	35	1	17949	00001000100011110000101001000
162	2	2	21	ON	1	37	15	18083	00001000100111110110010111000
				OFF	1	38	4	18132	00001000101001010110000100000
163	4	1	54	ON	3	3	52	23279	00001011000110011010110011000
				OFF	3	5	53	23400	00001011001010000111001000000
163	4	2	23	ON	3	7	8	23467	00001011001100001001111111000
				OFF	3	7	52	23519	000010110011011011111100011000
164	4	1	117	CN	4	32	31	26599	00001101101000110001011011000
				OFF	4	36	54	28862	00001101110000110011000110000
165	4	1	12	ON	6	17	24	34892	00010000101000110100011100000
				OFF	6	18	13	34941	00010000101010010100001001000
166	3	1	36	ON	7	44	53	40141	000100110010010000000011001000
				OFF	7	46	23	40231	00010011001011110000001011000
166	3	2	11	ON	7	49	14	40422	00010011010000111110001010000
				OFF	7	49	44	40432	00010011010001111000110000000
167	3	1	14	ON	9	12	28	45276	00010101100101101101101100000
				OFF	9	11	2	45310	00010101100110110000000110000
167	3	2	17	ON	9	12	39	45406	00010101101001101011100110000
				OFF	9	13	21	45448	00010101101010111101101000000
167	3	3	11	ON	9	16	25	45632	00010101110000100101000000000
				OFF	9	16	55	45662	00010101110001011111100110000
168	3	1	125	CN	10	40	4	50652	00011000010011100011011000000
				OFF	10	44	57	50945	0001100001001010101101111101000
175	2	1	14	CN	20	42	39	65806	00101001011001000110111110000
				OFF	20	43	13	66840	00101001011010001001011000000
176	3	1	57	ON	22	12	27	92074	00101011111001111000000010000
				OFF	22	12	39	92206	001010111111011111001110110000
176	3	2	21	ON	22	16	54	92461	00101100000101101011111001000
				OFF	22	17	40	92507	00101100000111000101101111000
176	4	0	16	ON	22	37	50	93710	00101100101100000010111110000
				OFF	22	38	32	93760	001011001011010101010100000000

CLOCK OPERATIONS

AFT	P.N	CAMERA	NUMBER	195					BINARY
OPR	NO	FR		H	M	S	DEC		
82	6	2	21	CN	3	16	4	129583	00111101011101001100100111000
				OFF	3	16	52	128931	00111101011110101010010111000
82	8	0	3	CN	3	28	53	129652	00111101101001010101001000000
				OFF	3	29	16	129675	00111101110101010111011111000
83	4	1	54	ON	4	42	2	134041	00111111111010100110110101000
				OFF	4	44	5	134164	00111111111100101110001000000
83	4	2	23	CN	4	45	11	134229	01000000000000101100000010000
				OFF	4	46	2	134222	01000000000001111001101000000

84	4	1	118	ON	6	18	58	139369	01000010011101001101000101000
				OFF	6	15	14	139633	01000010100101010000101101000
85	4	1	19	ON	7	55	52	145671	01000101011101100001101011000
				OFF	7	56	41	145720	01000101011111000001011000000
86	4	1	12	ON	9	23	28	150927	01000111111101111010100110000
				OFF	9	23	58	150957	01000111111111010101111001000
86	4	2	11	ON	9	27	49	151188	01001000000101111001000100000
				OFF	9	28	19	151218	01001000000110110011101010000
87	4	1	46	ON	10	47	53	155992	01001010011000011111110000000
				OFF	10	49	44	156103	01001010011011111000101011000
87	4	2	16	ON	10	51	21	156199	01001010011110101000010110000
				OFF	10	52	3	156241	01001010100000000110001101000
87	4	3	11	ON	10	53	34	156333	01001010100010111001111001000
				OFF	10	54	4	156363	01001010100011110100011111000
87	4	4	11	ON	10	55	8	156427	01001010100101110001011111000
				OFF	10	55	37	156456	01001010100110101010001000000
88	3	1	122	ON	12	18	53	161452	01001100111111000111111100000
				OFF	12	23	46	161745	0100110100100000010001101000
99	3	0	22	ON	15	0	51	171170	01010001100111101100011010000
				OFF	15	1	42	171221	01010001101001010000000001000
96	2	1	2	ON	23	56	43	203322	01100000111100111001010010000
				OFF	23	57	30	203369	01100000111110010101000101000
96	2	0	15	ON	0	17	41	204580	01100001100011010010010100000
				OFF	0	18	23	204622	01100001100100100100010110000
98	2	1	15	ON	2	52	42	213879	01100101111111000100011011000
				OFF	2	53	16	213915	01100110000000001010101111000
98	2	2	2	ON	2	55	29	214048	01100110000100001110100000000
				OFF	2	56	17	214096	011001100001011011000100000000
99	4	1	54	ON	4	22	9	219248	01101000100010111010110000000
				OFF	4	24	11	219370	01101000100110101001000010000
99	4	2	23	ON	4	25	17	219436	01101000101000101001111100000
				OFF	4	26	8	219487	01101000101010001101100011000
100	4	1	110	ON	5	50	53	224572	01101011000101011001001100000
				OFF	5	55	17	224836	01101011001101011100110100000
101	4	1	19	ON	7	35	52	230871	01101110000101001111111011000
				OFF	7	36	40	232919	01101110000111000101101011000
102	6	1	30	ON	9	3	27	236126	01110000100101111111100110000
				OFF	9	4	57	236216	01110000101000101111011000000
102	6	2	11	ON	9	7	48	236336	01110000101101110110110100000
				OFF	9	8	18	236416	0111000010110110110110000000000
102	6	3	56	ON	9	12	8	236647	01110000110101111001001011000
				OFF	9	14	40	236799	011100001110101000100000011000
103	6	1	100	ON	10	27	48	241187	01110011000000011100010111000
				OFF	10	31	57	241436	01110011001000000010101100000
103	6	2	12	ON	10	33	29	241528	01110011001010110110011000000
				OFF	10	33	59	241558	01110011001011110000111110000
103	6	3	11	ON	10	35	2	241621	011100110011011011000000001000
				OFF	10	35	31	241650	01110011001110100100101010000
104	3	1	121	ON	11	58	44	246643	01110101100110111100100111000
				OFF	12	3	37	246936	01110101101111111000111000000
112	2	1	2	ON	23	37	9	200547	10001001100101110000010111000

			OFF	23	37	56	288594	10001001100111001100001010000
112	7	0	ON	23	58	9	289808	10001010001100001111010000000
			OFF	23	58	51	289850	10001010001101100001010010000
114	2	1	ON	2	33	24	299123	10001110101000100000100111000
			OFF	2	34	0	299159	100011101010001100110111011000
114	2	2	ON	2	36	14	299292	10001110101101101010101100000
			OFF	2	37	2	299340	10001110101111001000011100000
115	4	1	ON	4	3	2	304501	10010001001100101000100001000
			OFF	4	5	4	304623	10010001010000010110110011000
115	4	2	ON	4	6	10	304689	1001000101001001001011110110100
			OFF	4	7	2	304741	10010001010011111101010001000
116	4	1	ON	5	31	55	309834	10010011101111011000100010000
			OFF	5	36	19	310098	10010011110111011100001010000
117	4	1	ON	7	17	3	316142	10010110101111111000101100000
			OFF	7	17	52	316191	10010110110001011000100011000
118	3	1	ON	8	44	44	321403	10011001010000011100001111000
			OFF	8	46	14	321403	10011001010011001100000001000
118	3	2	ON	8	49	6	321665	10011001011000011011111101000
			OFF	8	49	36	321695	10011001011001010110100011000
119	3	1	ON	10	12	31	326550	1001101110110110100000111110000
			OFF	10	11	6	326505	10011011101110101010101010100
119	3	2	ON	10	12	42	326601	100110111100011000001010101000
			OFF	10	13	24	326723	100110111100101100101011011000
119	3	3	ON	10	16	20	326907	100110111110000110100011111000
			OFF	10	16	50	326937	10011011111001010100110101000
120	5	1	ON	11	41	55	332034	100111100101001101111111010000
			OFF	11	45	14	332233	10011110011010111100100101000
127	2	1	ON	21	44	23	368102	10101111100100000010111100000
			OFF	21	44	57	368216	10101111100101000011111000000
128	2	1	ON	23	18	51	373050	10110010010000111111110010000
			OFF	23	19	37	373096	10110010010010011001101000000
128	4	0	ON	23	39	50	375100	10110010110111011000110100000
			OFF	23	42	32	375150	101100101110001010101010101000
130	6	1	ON	2	12	41	384200	10110111001111010010111000000
			OFF	2	15	36	384455	10110111010100101000101011000
130	6	2	ON	2	17	49	384500	10110111011000101100011100000
			OFF	2	18	38	384637	10110111011010001100001001000
131	4	1	ON	3	44	33	389792	101110011101111100000100000000
			OFF	3	46	34	389913	10111001111011001100101010100
131	4	2	ON	3	47	41	389900	10111001111101001111101100000
			OFF	3	48	33	390032	10111001111110110101010100000
132	4	1	ON	5	13	21	395120	10111100011010000110110000000
			OFF	5	17	45	395304	10111100100010001010011000000
133	4	1	ON	6	50	25	401424	10111110110100111110100000000
			OFF	6	59	13	401472	10111110110111111101000000000
134	4	1	ON	6	26	4	406603	1100000111101011111010111000
			OFF	6	26	34	406713	11000001111011111001010101000
134	4	2	ON	6	30	25	406943	11000010000010111010100011000
			OFF	6	32	55	406973	11000010000011110101001001000
135	4	1	ON	9	50	31	411749	11000100010101100101010001000
			OFF	9	52	22	411860	11000100011000111110000100000

135	4	2	17	ON	9	53	58	411956	11000100011011111001100100000
				OFF	9	54	40	411998	11000100011101001011100110000
135	4	3	12	ON	9	56	12	412090	11000100011111111111010010000
				OFF	9	56	42	412120	11000100100000111001111000000
135	4	4	12	ON	9	57	44	412103	11000100100010110100111011000
				OFF	9	58	14	412213	11000100100011101111100001000
136	5	1	84	ON	11	23	7	417306	11000110111111001010110010000
				OFF	11	26	25	417504	1100011000101001101100000000
144	2	1	20	ON	22	59	21	459000	11011010111010000000101000000
				OFF	23	0	7	459126	11011010111011011010011110000
144	4	0	15	ON	23	20	20	460338	110110111000000011001101010000
				OFF	23	21	2	460380	1101101110000101011101100000
146	2	1	15	ON	1	55	20	469639	11011111111100001111101011000
				OFF	1	55	56	469675	11011111111101010101111111000
146	2	2	21	ON	1	50	9	469808	111000000000001011001110000000
				OFF	1	50	50	469857	111000000000010111001011101000
147	4	1	54	ON	3	24	49	475000	11100010100000000110000000000
				OFF	3	26	51	475130	11100010100011110100010010000
147	4	2	23	ON	3	27	50	475197	11100010100101110111001001000
				OFF	3	28	50	475249	11100010100111011100101101000
149	4	1	10	ON	6	30	33	406632	111010000000010110101001000000
				OFF	6	39	21	406600	11101000000100010010111000000
150	3	1	37	ON	8	6	6	491805	11101010100011001000111001000
				OFF	8	7	36	491975	11101010100101111000101011000
150	3	2	12	ON	8	12	20	492146	111010101010110001101010101000
				OFF	8	10	59	492177	11101010101100000011001101000
151	3	1	10	ON	9	31	45	497024	11101100111111111110000000000
				OFF	9	32	19	497050	11101101000001000000011010000
151	3	2	17	ON	9	33	50	497154	11101101000011111011111010000
				OFF	9	34	30	497196	11101101000101001101111100000
151	3	3	12	ON	9	37	41	497300	11101101001010110101010100000
				OFF	9	38	11	497410	11101101001011101111111010000
152	3	1	125	ON	11	1	26	502404	11101111100100001001110100000
				OFF	11	6	19	502697	11101111101101000110000101000
160	2	1	20	ON	22	30	50	7378	00000011100001001010001010000
				OFF	22	39	36	7424	00000011100010100100000000000
160	4	0	10	ON	22	59	47	0635	00000100000111100001001111000
				OFF	23	0	29	3677	00000100001000110011010001000
162	2	1	15	ON	1	34	30	17926	00001000100011000011101110000
				OFF	1	35	13	17961	00001000100100001000000101000
162	2	2	21	ON	1	37	27	18095	00001000101000001101110011000
				OFF	1	36	16	18144	00001000101001101101100000000
163	4	1	54	ON	3	4	4	23292	00001011000110110100001100000
				OFF	3	6	5	23413	00001011001010100000100001000
163	4	2	23	ON	3	7	12	23400	00001011001100100011011000000
				OFF	3	8	4	23532	00001011001110001000111100000
165	4	1	10	ON	6	17	30	34974	00010000101001001011110000000
				OFF	6	18	25	34953	00010000101010101011100101000
166	3	1	30	ON	7	45	5	40153	00010011001001010111110101000
				OFF	7	46	35	40243	00010011001100000111100111000
166	3	2	11	ON	7	49	26	40414	00010011010001010101100110000

			OFF	7	49	56	42444	00010011010010010000001100000	
167	3	1	14	ON	9	10	40	45288	00010101100110000101001000000
			OFF	9	11	14	45322	00010101100111000111100010000	
167	3	2	17	ON	9	12	51	45419	00010101101010000100111111000
			OFF	9	13	33	45461	00010101101011010111000001000	
167	3	3	11	ON	9	16	37	45645	00010101110000111110011001000
			OFF	9	17	7	45675	00010101110001111000111111000	
168	3	1	125	ON	10	40	16	50664	00011000001010001001001000000
			OFF	10	45	9	50957	00011000010011000101011001000	
175	2	1	14	ON	20	42	51	86819	00101001011001100000010111000
			OFF	20	43	25	86853	00101001011010100010110001000	
176	3	1	57	ON	22	10	39	92087	00101011111010010001011011000
			OFF	22	12	51	92219	00101011111100100110011111000	
176	3	2	20	ON	22	17	6	92474	00101100000110000101010010000
			OFF	22	17	52	92520	00101100000111011111001000000	
176	4	0	15	ON	22	38	2	93730	00101100101100011010011010000
			OFF	22	38	44	93772	00101100101101101100011100000	

- NOTE - TLM DATA INDICATED THAT BOTH PANORAMIC CAMERAS RAN OUT OF FILM PRIOR TO OPERATION 176-4-0.
- NOTE - ONLY THE LAST SIX FRAMES FOR OPERATION 082-26-1 ON THE FWD PAN CAMERA AND THE LAST SIX FRAMES FOR OPERATION 082-26-2 ON THE AFT PAN CAMERA ARE CONTAINED IN THE MISSION RECOVERY CAPSULE.
- NOTE - OPERATION 082-20-0 IS THE CUT AND WRAP OPERATION WHICH OCCURRED AT THE TIME OF A MISSION RECOVERY.
- NOTE - T/M DATA INDICATE NOMINAL SYSTEM PERFORMANCE.
- NOTE - TLM DATA INDICATED THAT BOTH PANORAMIC CAMERAS RAN OUT OF FILM PRIOR TO OPERATION 176-4-0.