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1033-1



CORONA J FL
DATA BOOK

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12 PAGES
(NOT INCLUDING PEST)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-33

VEHICLE NO. 1638

MISSION NO. 1833-1

CAMERA NOS. 194/195

DATE 5-28-66

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SYSTEM NO. J-33
VEHICLE NO. 1630
MISSION NO. 1033-1
CAMERA NOS. 194/195

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SYSTEM NO. J-33
VEHICLE NO. 1638
MISSION NO. 1033-1
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. D84/075/102

LAUNCH DATE 05-24-66

LAUNCH TIME 02-00-33 GMT

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBIAL PARAMETERS (REV. 42)

PERIOD 88.928 MIN.

ECCENTRICITY 0.00739

PERIGEE 101.830 NM

PERIGEE LAT. 60.748 DEG. N

APOGEE 154.550 NM

INCL. ANGLE 66.032 DEG.

RECOVERY ORBIT NO. 83

RECOVERY DATE 5-28-66

SYSTEM NO. J-33
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MISSION NO. 1033-1
CAMERA NOS. 194/195

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS		CAMERA NO. 194	CAMERA NO.
PANORAMIC OPTICS SLIT WIDTH	.288	IN	.288
PANORAMIC OPTICS FILTER TYPE	WRATTEN 21		WRATTEN 21
HORIZON OPTICS EXP. TIME	1/180	SEC.	1/180
HORIZON OPTICS APERTURE	F6.3	SUPPLY	F8.0 SU
HORIZON OPTICS APERTURE	F8.0	TAKE-UP	F6.3 TAK
HORIZON OPTICS FILTER TYPE	WRATTEN 25		WRATTEN 25

STELLAR INDEX CAMERA SETTINGS

	D91/105/109		D84/075/102	
	STELLAR	INDEX	STELLAR	INDEX
EXPOSURE TIME	2.0	SEC	1/500	SEC
APERTURE SETTING	F1.0		F4.5	
FILTER TYPE	NONE		WRATTEN 21	NONE

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

FILM

PANORAMIC CAMERAS	CAMERA NO. 194	CAMERA NO. 195
TYPE	7J-48	7J-48
LENGTH	16800 FT.	16800 FT.
SPLICES	5	4
EMUL. DATA	244-3-4-6	244-3-4-6
LG. BETWEEN	2369-3982-3598-	3436-3950-3680-
SPLICES	3584-0486-1918C	3685-1249C

STELLAR/INDEX CAMERAS

	D91/105/109		D84/075/102	
	STELLAR	INDEX	STELLAR	INDEX
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	151-48-3-6	113-2-3-6	151-48-3-6	113-

SYSTEM NO. J-33
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CAMERA NOS. 194/195

LENS DATA SUMMARY MASTER CAMERA NO. 194

LENS SERIAL NO. 2882435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.682 MM

RESOLUTION

STATIC	BENCH TEST	LINES/MM	FILM TYPE	TARGET CONTR.
		262	3484	HIGH
		152	3484	LOW
DYNAMIC				
	BOSTON	187	3484	HIGH
		119	3484	LOW
	AP	182	3484	HIGH
		116	3484	LOW

NOTE BOSTON RESOLUTION OF 187 LINES/MM REPORTED IN 

DISTORTION - POSITIVE (PINCUSHION)

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

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MISSION NO. 1833-1
CAMERA NOS. 194/195

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 194)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12895	12836
OPERATIONAL FOCAL LENGTH	55.88 MM	55.88 MM
RADIAL DISTORTION		
18 DEG. OFF AXIS	0.018 MM	0.018 MM
28 DEG. OFF AXIS	0.048 MM	0.048 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.038 MM	0.015 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	18	15	28	25	27.5	38
TAKE-UP (RADIAL)	187	234	286	168	139	158	-8	81
(TANGENTIAL)	166	185	181	133	58	86	-8	62
SUPPLY (RADIAL)	209	288	286	127	159	134	-8	55
(TANGENTIAL)	187	164	181	123	83	43	-8	51

DYNAMIC (ZERO DEG)

TAKE-UP -8 LINES/MM
SUPPLY -8 LINES/MM

NOTE

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

SYSTEM NO. J-33
VEHICLE NO. 1630
MISSION NO. 1033-1
CAMERA NOS. 194/195

LENS DATA SUMMARY SLAVE CAMERA NO. 195

LENS SERIAL NO. 1962435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.682 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTRA
	BENCH TEST	250	3484	HIGH
		152	3484	LOW
DYNAMIC				
	BOSTON	192	3484	HIGH
		119	3484	LOW
	AP	169	3484	HIGH
		116	3484	LOW

NOTE BOSTON RESOLUTION OF 192 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

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

SYSTEM NO. J-33
VEHICLE NO. 1630
MISSION NO. 1033-1
CAMERA NOS. 194/195

LENS DATA SUMMARY (HORIZON CAMERAS FOR SLAVE CAMERA NO. 195)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12874	12849
OPERATIONAL FOCAL LENGTH	54.98 MM	55.88 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.020 MM	0.020 MM
20 DEG. OFF AXIS	0.070 MM	0.050 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.010 MM	0.020 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	209	186	206	202	156	95	-0	41
(TANGENTIAL)	187	164	161	155	121	109	-0	62
SUPPLY (RADIAL)	166	165	206	181	175	150	-0	57
(TANGENTIAL)	187	185	181	155	103	96	-0	62

DYNAMIC (ZERO DEG)

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

NOTE

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

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MISSION NO. 1033-1
CAMERA NOS. 194/195

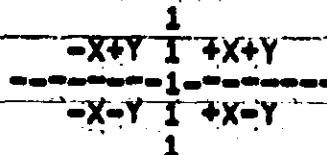
FORMAT DIMENSIONS AND CALIBRATIONS

CAMERA NO. 194

CAMERA NO. 195

A	76.020	76.850
B	355.010	355.030
C	709.710	709.330
D	56.309	56.543
E	56.457	56.527
XT	0.177	0.601
YT	-0.079	-0.380
XS	-0.599	-0.702
YS	-0.006	0.017
XVO	-0.022	0.462
YVO	1.256	1.591
DTX	0.176	0.590
DTY	-2.079	-2.380
DSX	-0.579	-0.704
DSY	-2.006	2.017
DMX	-0.074	0.496
DMY	21.256	21.591
HEIGHT	-0.000	-0.000
WIDTH	-0.000	-0.000
DIRECTION		
FLIGHT	-Y	+Y
SCAN	+X	+X

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



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CAMERA NOS. 194/195

LENS DATA SUMMARY STELLAR INDEX D91/185/189 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11359	819198
RESEAU SERIAL NO.	189	185
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.45 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	8	18	28	38	35
HIGH CONTRAST-R/T (3488 FILM)	871/71	878/85	182/84	899/43	889/3

AWAR 74 LINES/MM
READ FROM 4488 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	0.0003 INCHES/0.937 INCHES	-0.0007 INCHES/2.25 IN

SYSTEM NO. J-33
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MISSION NO. 1033-1
CAMERA NOS. 194/195

LENS DATA SUMMARY STELLAR INDEX D84/075/102 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	10727	819957
RESEAU SERIAL NO.	75	102
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.0 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.37 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	071/71	083/87	098/87	090/43	086/31

AWAR 73 LINES/MM
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	-0.0006 INCHES/.937 INCHES	0.0008 INCHES/2.25 IN

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CAMERA NOS. 194/195

CYCLE PERIOD DATA

V/H LEVEL	RAMP AMPLITUDE	SETTING RAMP-SEC	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		OR CYCLE PERIOD-SEC NO
				MASTER	SLAVE	MASTER	SLAVE	
4	8		1540	2.345	-0.000	2.340	2.330	11
4	8		2990	2.703	2.600	2.675	2.690	10
3	8		3095	2.635	2.612	2.620	2.593	32
3	8		3095	2.633	2.610	2.620	2.620	48
3	8		1642	2.229	2.220	2.200	2.230	74

NOTE

A -0 OR * INDICATE NO DATA AVAILABLE.

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- A. 1033-1
- 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
PRE-FLT 102													
D	1	2	0	18	ON	2 51 17 158 24W	666987	691226	24	3	28	9	1654 12489
					OFF	2 48 47 155 25W	671487	695896	24	3	28	57	17 7 12537
A	2	2	1	16	ON	1 44 19 62 55E	628777	643363	24	4	39	45	851 16785
					OFF	1 46 26 64 54E	628871	642638	24	4	48	23	9 8 16823
	2	2	2	22	ON	1 53 24 73 15E	619592	642134	24	4	42	34	935 16954
					OFF	1 55 56 77 23E	628167	642731	24	4	43	26	952 17886
A	3	2	1	188	ON	1 46 58 42 45E	628279	642846	24	6	9	38	9 8 22178
					OFF	1 58 56 61 8E	621728	644358	24	6	13	33	1817 22413
A	4	2	1	119	ON	1 46 46 28 8E	628688	643188	24	7	38	38	859 27518
					OFF	1 59 51 48 45E	622543	645195	24	7	42	57	1826 27777
D	6	3	1	35	ON	2 55 34 82 32E	659132	683159	24	18	51	46	1621 39186
					OFF	2 58 58 89 18E	667228	691568	24	18	53	18	1658 39198
	6	3	2	11	ON	2 41 39 98 33E	684333	789389	24	18	56	8	1738 39368
					OFF	2 39 48 99 58E	687981	713812	24	18	56	48	1736 39488
D	7	3	1	13	ON	2 63 1 48 21E	644229	667695	24	12	17	48	1459 44268
					OFF	2 61 54 44 42E	646659	678217	24	12	18	15	1517 44295
	7	3	2	16	ON	2 58 5 55 6E	653943	677775	24	12	19	51	16 8 44391
					OFF	2 56 14 58 48E	657273	681238	24	12	28	32	1615 44432
	7	3	3	11	ON	2 46 41 71 33E	674241	698836	24	12	23	38	17 9 44618
					OFF	2 45 5 73 5E	677198	781985	24	12	24	7	1716 44647
D	8	5	1	78	ON	2 57 18 34 28E	654922	678798	24	13	49	12	16 7 49752
					OFF	2 47 9 48 33E	672723	697261	24	13	52	38	17 6 49958
D	9	5	1	44	ON	2 51 16 21 19E	664677	688913	24	15	28	13	1645 55213
					OFF	2 45 11 27 56E	675665	788314	24	15	22	6	1713 55326
A	18	5	8	28	ON	1 38 8 122 14W	622884	645549	24	16	29	59	821 59399
					OFF	1 41 3 128 6W	628835	643423	24	16	38	49	838 59449
A	15	5	1	33	ON	1 21 7 115 45E	643816	666436	24	23	58	13	733 85813
					OFF	1 26 14 118 18E	634615	657719	24	23	51	37	744 85897
	15	5	2	13	ON	1 38 5 128 18E	629372	652279	24	23	52	41	753 85961
					OFF	1 32 8 121 19E	626955	649772	24	23	53	15	758 85995
	15	5	3	58	ON	1 36 33 124 2E	622597	645251	24	23	54	38	818 86878
					OFF	1 43 32 129 16E	618881	648566	24	23	56	31	833 86191
A	16	2	1	7	ON	1 49 37 112 48E	616262	638679	25	1	27	28	858 5248
					OFF	1 58 35 113 58E	616199	638614	25	1	27	38	9 3 5258
D	16	2	8	14	ON	2 33 44 121 17W	696887	722336	25	1	48	28	1743 6588
					OFF	2 31 17 119 52W	782116	727762	25	1	49	1	1749 6541
A	18	2	1	14	ON	1 44 36 62 37E	617895	639543	25	4	23	46	834 15826
					OFF	1 46 32 64 26E	616478	638982	25	4	24	21	842 15861
	18	2	2	28	ON	1 53 37 73 1E	616859	638468	25	4	26	35	918 15995
					OFF	1 55 59 76 55E	616616	639846	25	4	27	24	935 16844
A	19	4	1	52	ON	1 47 7 42 38E	616892	638582	25	5	53	38	843 21218
					OFF	1 53 32 58 22E	615837	638238	25	5	55	32	917 21332

A	19	4	2	22	ON	1	56	42	55	43E	616663	639898	25	5	56	37	939	21397	
					OFF	1	59	1	60	48E	617753	640226	25	5	57	38	18	0	21450
D	22	4	1	11	ON	2	55	41	81	51E	654760	678622	25	10	35	30	16	2	38130
					OFF	2	54	13	84	16E	657328	681278	25	10	36	8	1613	38160	
	22	4	2	11	ON	2	41	43	98	2E	679839	704645	25	10	39	53	1712	38393	
					OFF	2	40	3	99	19E	683044	707971	25	10	40	22	1717	38422	
D	23	4	1	45	ON	2	64	57	29	8E	635534	658674	25	12	8	7	1356	43207	
					OFF	2	61	56	44	6E	642982	666402	25	12	1	57	1450	43317	
	23	4	2	16	ON	2	58	9	54	38E	658235	673927	25	12	3	34	1541	43414	
					OFF	2	56	18	58	13E	653534	677351	25	12	4	15	1557	43455	
	23	4	3	11	ON	2	51	43	65	21E	661586	685785	25	12	5	48	1627	43548	
					OFF	2	50	11	67	17E	664278	688499	25	12	6	17	1635	43577	
	23	4	4	11	ON	2	46	45	71	2E	670395	694846	25	12	7	21	1651	43641	
					OFF	2	45	9	72	34E	673303	697863	25	12	7	50	1658	43670	
D	24	3	1	119	ON	2	61	6	24	19E	644534	668012	25	13	31	19	15	8	48679
					OFF	2	47	11	48	4E	669464	693880	25	13	36	11	1648	48971	
A	31	2	1	14	ON	1	30	5	119	47E	624728	647461	25	23	36	7	735	84967	
					OFF	1	32	6	120	55E	622489	645138	25	23	36	41	748	85001	
A	32	2	1	28	ON	1	49	36	112	25E	612967	635260	26	1	10	44	840	4244	
					OFF	1	52	0	115	24E	613067	635365	26	1	11	30	853	4290	
D	32	4	0	15	ON	2	33	43	121	39W	693853	719187	26	1	31	43	1725	5503	
					OFF	2	31	16	120	14W	698959	724487	26	1	32	24	1731	5544	
A	34	2	1	15	ON	1	44	36	62	17E	613396	635705	26	4	7	5	816	14825	
					OFF	1	46	33	64	7E	612911	635202	26	4	7	40	824	14860	
	34	2	2	21	ON	1	53	39	72	44E	612990	635284	26	4	9	54	9	0	14994
					OFF	1	56	2	76	39E	613712	636034	26	4	10	43	917	15043	
	35	4	1	54	ON	1	47	9	42	12E	612550	634027	26	5	36	47	825	20207	
					OFF	1	53	33	50	3E	612749	635034	26	5	38	49	859	20329	
	35	4	2	23	ON	1	56	43	55	25E	613795	636119	26	5	39	54	921	20394	
					OFF	1	59	2	60	20E	615033	637404	26	5	40	46	942	20446	
A	36	4	1	117	ON	1	47	10	19	42E	612290	634558	26	7	5	43	824	25543	
					OFF	1	60	1	40	21E	615547	637938	26	7	10	7	951	25807	
D	38	4	1	12	ON	2	55	38	81	38E	652860	676651	26	10	18	41	1545	37121	
					OFF	2	54	10	84	3E	655395	679281	26	10	19	11	1555	37151	
	38	4	2	11	ON	2	41	38	97	47E	677531	702250	26	10	23	4	1654	37384	
					OFF	2	39	50	99	4E	680650	705487	26	10	23	33	1659	37413	
	39	4	1	46	ON	2	64	55	28	56E	633705	656776	26	11	43	16	1339	42196	
					OFF	2	61	53	44	0E	641216	664569	26	11	45	7	1441	42307	
	39	4	2	17	ON	2	58	5	54	20E	648424	672048	26	11	46	42	1524	42402	
					OFF	2	56	13	58	4E	651742	675491	26	11	47	23	1539	42443	
	39	4	3	12	ON	2	51	40	65	7E	659607	683652	26	11	48	56	16	9	42536
					OFF	2	50	7	67	4E	662302	686448	26	11	49	26	1617	42566	
	39	4	4	11	ON	2	46	40	70	49E	668333	692706	26	11	50	30	1633	42630	
					OFF	2	45	4	72	21E	671184	695665	26	11	50	59	1640	42659	
	40	3	1	119	ON	2	61	0	24	9E	642756	666168	26	13	14	25	1451	47665	
					OFF	2	47	5	47	53E	667490	691831	26	13	19	18	1630	47950	
	47	4	1	35	ON	1	21	8	115	10E	630128	653064	26	23	16	26	657	83786	
					OFF	1	26	14	117	35E	622544	645196	26	23	17	50	7	8	83870
	48	2	1	19	ON	1	49	37	112	14E	607231	629310	27	0	53	27	822	3207	
					OFF	1	51	59	115	12E	607504	629592	27	0	54	12	835	3252	
	48	4	0	15	ON	2	33	48	121	54W	689278	714440	27	1	14	25	17	6	4465

A	50	5	1	97	OFF	2	31	18	120	27W	694392	719747	27	1	15	7	1713	4507	
					ON	1	44	33	62	3E	606565	628619	27	3	49	40	757	13780	
					OFF	1	55	58	76	21E	607634	629728	27	3	53	18	858	13998	
	51	4	1	53	ON	1	47	3	41	56E	606362	628400	27	5	19	19	8	7	19159
					OFF	1	53	28	49	46E	606953	629022	27	5	21	20	840	19280	
	51	4	2	23	ON	1	56	38	55	4E	608185	630300	27	5	22	26	9	2	19346
					OFF	1	58	55	59	55E	609549	631715	27	5	23	18	923	19398	
	53	4	1	19	ON	2	52	15	109	14E	654109	677947	27	8	33	20	1550	30800	
					OFF	2	49	44	112	25E	650340	682337	27	8	34	8	16	3	30848
	54	6	1	36	ON	2	55	43	81	22E	648227	671044	27	10	1	2	1526	36062	
					OFF	2	51	12	88	7E	655750	679650	27	10	2	33	1555	36153	
	54	6	2	11	ON	2	41	45	97	35E	671883	696309	27	10	5	25	1635	36325	
					OFF	2	40	4	98	53E	674895	699515	27	10	5	54	1641	36354	
	54	6	3	56	ON	2	26	24	107	7E	701729	727360	27	10	9	45	1710	36585	
					OFF	2	17	9	111	20E	722693	749117	27	10	12	17	1737	36737	
	55	6	1	105	ON	2	64	58	28	29E	629001	652726	27	11	25	33	1319	41133	
					OFF	2	56	14	57	56E	647296	678070	27	11	29	43	1521	41303	
	55	6	2	12	ON	2	51	42	64	57E	654775	678638	27	11	31	15	1551	41475	
					OFF	2	50	9	66	55E	657345	681304	27	11	31	45	1559	41505	
	55	6	3	11	ON	2	46	42	70	41E	663007	687263	27	11	32	49	1615	41569	
					OFF	2	45	6	72	13E	665791	690060	27	11	33	10	1622	41598	
	56	5	1	80	ON	2	57	8	33	44E	645763	669207	27	12	50	16	1513	46696	
					OFF	2	47	8	47	45E	662159	686300	27	13	1	33	1612	46893	
	63	3	1	35	ON	1	21	6	115	10E	624061	646769	27	22	50	17	630	82697	
					OFF	1	26	11	117	34E	617103	639551	27	22	59	40	649	82700	
	63	3	2	14	ON	1	30	3	119	34E	612059	635147	27	23	0	44	659	82844	
					OFF	1	32	6	120	43E	610975	633193	27	23	1	10	7	4	82870
	64	2	1	20	ON	1	49	36	112	14E	603959	625915	28	0	35	14	8	4	2114
					OFF	1	52	0	115	14E	604430	626404	28	0	36	0	016	2160	
	65	7	0	9	ON	1	5	35	63	51E	653381	677109	28	1	51	46	6	7	6706
					OFF	1	7	3	64	25E	649020	673503	28	1	52	10	6	9	6730
	65	7	1	72	ON	1	41	1	81	39E	604167	626130	28	2	1	31	720	7291	
					OFF	1	50	2	90	15E	603377	625311	28	2	4	13	8	5	7453
	66	5	1	97	ON	1	44	40	62	12E	602624	624529	28	3	31	24	740	12684	
					OFF	1	56	2	76	31E	604020	626016	28	3	35	1	041	12901	
	67	2	1	100	ON	1	47	1	41	58E	602274	624167	28	5	0	57	740	10057	
					OFF	1	58	58	60	6E	606506	620641	28	5	4	50	9	5	10290
	68	2	1	119	ON	1	47	2	19	30E	602072	623957	28	6	29	47	747	23307	
					OFF	1	59	58	40	10E	607256	629336	28	6	34	12	914	23652	
	69	2	1	26	ON	1	63	25	29	41E	611131	633356	28	8	4	40	10	3	29000
					OFF	1	64	53	38	15E	613991	636323	28	8	5	40	1030	29140	
	69	2	2	19	ON	2	52	15	109	19E	651100	674825	28	8	14	53	1532	29693	
					OFF	2	49	43	112	31E	655262	679143	28	8	15	42	1545	29742	
	70	4	1	11	ON	2	55	42	81	30E	645156	668657	28	9	42	32	15	0	34952
					OFF	2	54	15	83	53E	647540	671131	28	9	43	2	1510	34902	
	70	4	2	11	ON	2	41	47	97	39E	668302	692674	28	9	46	54	1617	35214	
					OFF	2	40	3	98	59E	671329	695014	28	9	47	24	1623	35244	
	71	4	1	46	ON	2	64	57	28	40E	626339	649134	28	11	7	1	13	1	40021
					OFF	2	61	55	43	53E	633796	656071	28	11	8	52	14	4	40132
	71	4	2	16	ON	2	50	10	54	11E	640732	664060	28	11	10	27	1447	40227	
					OFF	2	56	16	57	59E	643940	667404	28	11	11	9	15	3	40269

71	4	3	11	ON	2	51	44	65	1E	651481	675137	28	11	12	41	1532	48361	
				OFF	2	58	11	66	59E	653951	677783	28	11	13	11	1541	48391	
71	4	4	11	ON	2	46	44	78	45E	659614	683659	28	11	14	15	1557	48455	
				OFF	2	45	8	72	18E	662291	686436	28	11	14	44	16	3	48484
72	3	1	122	ON	2	61	8	23	59E	635131	658256	28	12	38	3	1414	45483	
				OFF	2	47	8	47	52E	658654	682662	28	12	42	57	1554	45777	
74	4	8	21	ON	1	38	12	122	48W	682788	624788	28	15	28	5	7	8	55285
				OFF	1	41	8	128	39W	681676	623546	28	15	28	55	718	55255	
79	5	1	34	ON	1	28	53	115	16E	616885	639241	28	22	39	21	628	81561	
				OFF	1	25	54	117	37E	618183	632372	28	22	40	43	631	81643	
79	5	2	14	ON	1	29	49	119	38E	686888	628115	28	22	41	48	648	81788	
				OFF	1	31	58	128	46E	684327	626296	28	22	42	22	645	81742	
79	5	3	53	ON	1	36	17	123	28E	681388	623156	28	22	43	37	657	81817	
				OFF	1	43	17	128	48E	598882	628564	28	22	45	38	728	81938	
88	2	1	28	ON	1	49	17	112	4E	598348	628886	29	8	16	14	744	974	
				OFF	1	51	47	115	8E	598926	628693	29	8	17	1	757	1821	
82	6	1	73	ON	1	38	57	57	58E	598574	628328	29	3	18	46	7	2	11446
				OFF	1	48	12	65	54E	597281	618987	29	3	13	38	737	11618	

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 195

OPN NO	FRA	θ	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
PRE-FLT 188																		
1	2	8	18	ON	2	51	24	158	37W	668858	692412	24	3	28	21	1653	12581	
				OFF	2	48	54	155	36W	672686	697148	24	3	29	9	17	6	12549
2	2	1	16	ON	1	44	16	62	49E	628518	643894	24	4	39	57	851	16797	
				OFF	1	46	23	64	47E	619899	642452	24	4	48	35	859	16835	
2	2	2	22	ON	1	53	28	73	7E	619691	642236	24	4	42	46	935	16966	
				OFF	1	55	53	77	14E	628368	642931	24	4	43	38	952	17818	
3	2	1	189	ON	1	46	47	42	38E	628121	642682	24	6	9	42	9	8	22182
				OFF	1	58	53	68	58E	622828	644661	24	6	13	45	1816	22425	
4	2	1	128	ON	1	46	42	28	2E	628445	643819	24	7	38	42	858	27522	
				OFF	1	59	48	48	35E	622875	645548	24	7	43	9	1825	27789	
6	3	1	35	ON	2	55	39	82	19E	668173	684239	24	18	51	58	1621	39118	
				OFF	2	51	5	89	6E	668378	692745	24	18	53	38	1649	39218	
6	3	2	11	ON	2	41	47	98	23E	685689	718716	24	18	56	28	1729	39388	
				OFF	2	39	57	99	47E	689381	714464	24	18	56	52	1735	39412	
7	3	1	13	ON	2	63	4	48	5E	645881	668588	24	12	17	52	1458	44272	
				OFF	2	61	57	44	27E	647545	671136	24	12	18	27	1516	44387	
7	3	2	16	ON	2	58	18	54	52E	654926	678794	24	12	28	3	1559	44483	
				OFF	2	56	19	58	35E	658297	682293	24	12	28	44	1614	44444	
7	3	3	11	ON	2	46	49	71	22E	675488	788122	24	12	23	58	17	9	44638
				OFF	2	45	13	72	54E	678474	783229	24	12	24	19	1715	44659	
8	5	1	66	ON	2	55	48	36	58E	658548	682553	24	13	49	55	1617	49795	
				OFF	2	47	17	48	22E	673958	698534	24	13	52	41	17	5	49961
18	5	8	28	ON	1	38	4	122	28W	622335	644979	24	16	38	11	828	59411	
				OFF	1	41	8	128	12W	628414	642986	24	16	31	1	838	59461	
15	5	1	33	ON	1	21	1	115	39E	641677	665846	24	23	58	25	732	85825	
				OFF	1	26	9	118	4E	633526	656589	24	23	51	49	743	85989	
15	5	2	14	ON	1	38	8	128	4E	628469	651343	24	23	52	53	753	85973	

		OFF	1	32	3	121	13E	626149	648936	24	23	53	27	758	86887			
15	5	3	58	ON	1	36	38	123	56E	621997	644628	24	23	54	42	818	86882	
		OFF	1	43	28	129	9E	617785	648259	24	23	56	43	833	86283			
16	2	1	19	ON	1	49	34	112	41E	616214	638629	25	1	27	32	858	5252	
		OFF	1	51	57	115	39E	616251	638667	25	1	28	17	918	5297			
16	2	8	15	ON	2	33	54	121	27W	698432	723948	25	1	48	32	1742	6512	
		OFF	2	31	28	128	2W	783722	729429	25	1	49	13	1748	6553			
18	2	1	14	ON	1	44	33	62	31E	616858	639289	25	4	23	58	833	15838	
		OFF	1	46	28	64	28E	616311	638729	25	4	24	33	841	15873			
18	2	2	21	ON	1	53	34	72	53E	616165	638578	25	4	26	47	918	16887	
		OFF	1	55	57	76	47E	616889	639247	25	4	27	36	934	16856			
19	4	1	53	ON	1	47	4	42	24E	615952	638357	25	5	53	42	843	21222	
		OFF	1	53	29	58	15E	615944	638349	25	5	55	44	916	21344			
19	4	2	23	ON	1	56	39	55	34E	616886	639326	25	5	56	49	938	21489	
		OFF	1	58	59	68	31E	618868	648544	25	5	57	42	959	21462			
28	4	1	116	ON	1	47	3	19	51E	615719	638115	25	7	22	48	841	26568	
		OFF	1	59	59	48	31E	618542	641845	25	7	27	5	18	8	26825		
22	4	1	11	ON	2	55	46	81	38E	655792	679694	25	18	35	42	16	2	38142
		OFF	2	54	19	84	4E	658384	682383	25	18	36	12	1612	38172			
22	4	2	18	ON	2	41	51	97	52E	681179	786836	25	18	48	5	1711	38485	
		OFF	2	48	11	99	9E	684424	789483	25	18	48	34	1717	38434			
23	4	1	45	ON	2	64	59	28	44E	636317	659487	25	12	8	19	1355	43219	
		OFF	2	61	59	43	51E	643868	667322	25	12	2	9	1457	43329			
23	4	2	16	ON	2	58	13	54	17E	651213	674942	25	12	3	46	1548	43426	
		OFF	2	56	23	58	8E	654553	678488	25	12	4	27	1556	43467			
23	4	3	11	ON	2	51	49	65	9E	662783	686864	25	12	6	8	1626	43568	
		OFF	2	58	17	67	5E	665429	689693	25	12	6	29	1634	43589			
23	4	4	11	ON	2	46	52	78	51E	671628	696117	25	12	7	33	1658	43653	
		OFF	2	45	16	72	24E	674564	699171	25	12	8	2	1657	43682			
24	3	1	119	ON	2	61	18	24	4E	645442	668954	25	13	31	31	15	7	48691
		OFF	2	47	18	47	53E	678678	695139	25	13	36	23	1647	48983			
31	2	1	14	ON	1	38	8	119	42E	623881	646582	25	23	36	19	734	84979	
		OFF	1	32	2	128	58E	621737	644359	25	23	36	53	748	85813			
32	2	1	7	ON	1	49	33	112	18E	612961	635254	26	1	18	56	839	4256	
		OFF	1	58	33	113	29E	612999	635294	26	1	11	15	845	4275			
32	4	8	15	ON	2	33	53	121	49W	695359	728758	26	1	31	55	1724	5515	
		OFF	2	31	26	128	23W	788524	726111	26	1	32	36	1738	5556			
34	2	1	15	ON	1	44	33	62	11E	613288	635582	26	4	7	17	815	14837	
		OFF	1	46	38	64	1E	612793	635888	26	4	7	52	823	14872			
34	2	2	21	ON	1	53	36	72	36E	613138	635438	26	4	18	6	9	8	15886
		OFF	1	56	8	76	31E	613945	636275	26	4	18	55	916	15855			
35	4	1	54	ON	1	47	6	42	5E	612458	634732	26	5	36	59	825	28219	
		OFF	1	53	38	49	56E	612897	635187	26	5	39	1	858	28341			
35	4	2	23	ON	1	56	41	55	17E	614855	636389	26	5	48	6	921	28486	
		OFF	1	58	59	68	12E	615374	637758	26	5	48	58	941	28458			
36	4	1	118	ON	1	47	7	19	36E	612284	634468	26	7	5	55	824	25555	
		OFF	1	59	59	48	12E	615926	638331	26	7	18	19	958	25819			
38	4	1	12	ON	2	55	43	81	25E	653882	677711	26	18	18	53	1544	37133	
		OFF	2	54	16	83	51E	656446	688372	26	18	19	23	1554	37163			
38	4	2	11	ON	2	41	46	97	37E	678842	783611	26	18	23	16	1653	37396	
		OFF	2	48	7	98	54E	681998	786885	26	18	23	45	1659	37425			

39	4	1	47	ON	2	64	57	28	48E	634499	657688	26	11	43	28	1337	42288
				OFF	2	61	56	43	45E	642183	665498	26	11	45	19	1448	42319
39	4	2	17	ON	2	58	18	54	7E	649395	673856	26	11	46	54	1523	42414
				OFF	2	56	18	57	52E	652751	676538	26	11	47	35	1538	42455
39	4	3	12	ON	2	51	46	64	55E	668787	684793	26	11	49	8	16	8
				OFF	2	58	13	66	53E	663434	687622	26	11	49	38	1616	42578
39	4	4	11	ON	2	46	47	78	39E	669534	693952	26	11	58	42	1633	42642
				OFF	2	45	11	72	11E	672428	696946	26	11	51	11	1639	42671
48	3	1	119	ON	2	61	7	23	54E	643663	667189	26	13	14	37	1458	47677
				OFF	2	47	12	47	43E	668682	693868	26	13	19	38	1638	47978
47	4	1	35	ON	1	21	3	115	5E	628986	651795	26	23	16	38	656	83798
				OFF	1	26	18	117	29E	621578	644185	26	23	18	2	7	7
48	2	1	19	ON	1	49	34	112	8E	687273	629353	27	8	53	39	821	3219
				OFF	1	51	57	115	5E	687632	629726	27	8	54	24	834	3264
48	4	8	15	ON	2	33	58	122	4W	698756	715974	27	1	14	37	17	6
				OFF	2	31	28	128	36W	695928	721348	27	1	15	19	1712	4519
58	5	1	98	ON	1	44	31	61	58E	686415	628463	27	3	49	52	757	13792
				OFF	1	55	56	76	14E	687985	638889	27	3	53	38	858	14818
51	4	1	53	ON	1	47	1	41	51E	686313	628357	27	5	19	31	8	6
				OFF	1	53	25	49	39E	687139	629214	27	5	21	32	839	19292
51	4	2	23	ON	1	56	35	54	57E	688479	638685	27	5	22	38	9	2
				OFF	1	58	53	59	47E	689928	632188	27	5	23	38	922	19418
53	4	1	19	ON	2	52	21	189	2E	655167	679845	27	8	33	32	1549	38812
				OFF	2	49	58	112	14E	659446	683484	27	8	34	28	16	3
54	6	1	37	ON	2	55	47	81	18E	649211	672865	27	18	1	14	1525	36874
				OFF	2	51	17	87	56E	656818	688758	27	18	2	45	1554	36165
54	6	2	11	ON	2	41	52	97	25E	673136	697698	27	18	5	37	1635	36337
				OFF	2	48	12	98	43E	676184	788853	27	18	6	6	1648	36366
54	6	3	56	ON	2	26	35	186	57E	783327	729819	27	18	9	57	1717	36597
				OFF	2	17	22	111	11E	724587	751888	27	18	12	29	1737	36749
55	6	1	186	ON	2	64	59	28	14E	638572	653526	27	11	25	45	1318	41145
				OFF	2	56	19	57	44E	648262	671888	27	11	29	55	1528	41395
55	6	2	12	ON	2	51	48	64	46E	655823	679725	27	11	31	27	1558	41487
				OFF	2	58	15	66	44E	658421	682421	27	11	31	57	1558	41517
55	6	3	11	ON	2	46	49	78	31E	664229	688448	27	11	33	1	1614	41581
				OFF	2	45	13	72	3E	666965	691286	27	11	33	38	1621	41618
56	5	1	81	ON	2	57	12	33	31E	646783	678263	27	12	58	28	1512	46788
				OFF	2	47	15	47	34E	663281	687464	27	13	1	45	1611	46985
63	3	1	35	ON	1	21	2	115	5E	622928	645593	27	22	58	29	638	82789
				OFF	1	26	7	117	29E	616213	638627	27	22	59	52	649	82792
63	3	2	14	ON	1	38	8	119	29E	612149	634411	27	23	8	56	658	82856
				OFF	1	32	3	128	38E	618358	632553	27	23	1	38	7	3
64	2	1	28	ON	1	49	33	112	8E	684855	626814	28	8	35	26	8	3
				OFF	1	51	57	115	8E	684688	626589	28	8	36	12	816	2172
65	7	8	9	ON	1	5	28	63	45E	651517	675256	28	1	51	58	6	6
				OFF	1	6	56	64	19E	648832	671648	28	1	52	22	6	9
65	7	1	72	ON	1	48	59	81	34E	683943	625898	28	2	1	43	727	7383
				OFF	1	58	8	98	18E	683494	625433	28	2	4	25	8	4
66	5	1	98	ON	1	44	38	62	7E	682548	624451	28	3	31	36	739	12696
				OFF	1	55	59	76	24E	685151	627152	28	3	35	13	848	12913
67	2	1	189	ON	1	46	59	41	53E	682298	624184	28	5	1	9	748	18869

		OFF	1	58	56	59	59E	687884	629874	28	5	5	18	9	4	18318		
69	2	1	27	ON	1	63	24	29	31E	611694	633948	28	8	4	52	18	2	29892
		OFF	1	64	52	38	4E	614613	636968	28	8	5	52	18	37	29152		
69	2	2	19	ON	2	52	28	189	8E	652137	675981	28	8	15	5	1531	29785	
		OFF	2	49	49	112	28E	656343	688264	28	8	15	54	15	45	29754		
70	4	1	11	ON	2	55	46	81	18E	646132	669678	28	9	42	44	15	7	34964
		OFF	2	54	28	83	42E	648548	672169	28	9	43	14	15	17	34994		
70	4	2	11	ON	2	41	54	97	38E	669525	693942	28	9	47	6	1616	35226	
		OFF	2	48	11	98	58E	672586	697118	28	9	47	36	16	22	35256		
71	4	1	46	ON	2	64	59	28	26E	627129	649954	28	11	7	13	13	8	48833
		OFF	2	61	58	43	39E	634662	657778	28	11	9	4	14	3	48144		
71	4	2	16	ON	2	58	13	53	59E	641665	665835	28	11	18	39	14	46	48239
		OFF	2	56	21	57	47E	644913	668485	28	11	11	21	15	2	48281		
71	4	3	11	ON	2	51	58	64	58E	652448	676215	28	11	12	53	15	32	48373
		OFF	2	58	17	66	49E	655817	678889	28	11	13	23	15	48	48483		
71	4	4	11	ON	2	46	51	78	35E	668748	684828	28	11	14	27	15	56	48467
		OFF	2	45	15	72	8E	663446	687635	28	11	14	56	16	3	48496		
72	3	1	122	ON	2	61	11	23	46E	636818	659168	28	12	38	15	14	13	45495
		OFF	2	47	15	47	41E	659769	683828	28	12	43	9	15	53	45789		
74	4	8	21	ON	1	38	9	122	53W	682471	624371	28	15	28	17	7	8	55217
		OFF	1	41	5	128	43W	681479	623342	28	15	21	7	7	17	55267		
79	5	1	35	ON	1	28	49	115	11E	615711	638186	28	22	39	33	6	28	81573
		OFF	1	25	51	117	32E	689329	631485	28	22	48	55	6	38	81655		
79	5	2	14	ON	1	29	47	119	34E	685488	627417	28	22	42	8	6	48	81728
		OFF	1	31	48	128	41E	683746	625694	28	22	42	34	6	45	81754		
79	5	3	53	ON	1	36	15	123	24E	688914	622756	28	22	43	49	6	57	81829
		OFF	1	43	15	128	35E	598788	628459	28	22	45	58	7	19	81958		
80	2	1	28	ON	1	49	15	111	59E	598468	628218	29	8	16	26	7	44	986
		OFF	1	51	45	115	3E	599131	628987	29	8	17	13	7	57	1833		
82	6	1	78	ON	1	38	55	57	46E	598387	628851	29	3	18	58	7	1	11458
		OFF	1	48	46	66	29E	597467	619188	29	3	13	53	7	39	11633		
82	6	2	16	ON	1	55	38	75	59E	688844	621854	29	3	16	7	8	19	11767
		OFF	1	57	28	79	11E	681158	623881	29	3	16	44	8	33	11884		

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO	194	0.2888	SLIT W/21	FILTER	3484	FILM						
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
PRE-FLT	182	269.8										
1	2	8	18	47.6	ON	385	25.6	132.6	12.18	12.55	11.95	11.35
					OFF	383	23.4	133.7	12.18	12.58	11.98	11.38
2	2	1	16	42.3	ON	328	45.2	72.1	12.21	12.74	12.14	11.54
					OFF	329	46.8	74.7	12.21	12.75	12.15	11.55
2	2	2	22	58.2	ON	329	47.7	84.3	12.21	12.75	12.15	11.55
					OFF	328	47.9	88.3	12.21	12.75	12.15	11.55
3	2	1	188	285.7	ON	329	45.9	74.9	12.21	12.75	12.15	11.55
					OFF	328	47.8	93.1	12.21	12.75	12.15	11.55
4	2	1	119	314.8	ON	329	45.7	74.5	12.21	12.75	12.15	11.55
					OFF	327	47.7	94.4	12.21	12.75	12.15	11.55
6	3	1	35	92.6	ON	294	38.3	129.2	12.85	12.63	12.83	11.43
					OFF	288	26.2	131.7	12.82	12.56	11.96	11.36

6	3	2	11	29.1	ON 278	18.3	135.8	11.97	12.32	11.72	11.12
					OFF 276	16.8	135.5	11.96	12.25	11.65	11.85
7	3	1	13	34.4	ON 385	37.7	122.2	12.18	12.78	12.18	11.58
					OFF 383	36.5	123.7	12.18	12.69	12.89	11.49
7	3	2	16	42.3	ON 297	32.7	127.2	12.87	12.66	12.86	11.46
					OFF 295	31.8	128.6	12.86	12.64	12.84	11.44
7	3	3	11	29.1	ON 282	22.8	133.2	11.99	12.48	11.88	11.28
					OFF 281	21.4	133.8	11.99	12.44	11.84	11.24
8	5	1	78	286.3	ON 296	32.8	127.7	12.86	12.65	12.85	11.45
					OFF 283	23.4	132.9	12.88	12.58	11.98	11.38
9	5	1	44	116.4	ON 288	27.1	138.9	12.82	12.58	11.98	11.38
					OFF 281	21.9	133.4	11.99	12.46	11.86	11.26
10	5	8	28	52.9	ON 389	48.7	63.8	12.12	12.72	12.12	11.52
					OFF 311	42.2	66.6	12.13	12.73	12.13	11.53
15	5	1	33	87.3	ON 292	29.8	51.5	12.84	12.61	12.81	11.41
					OFF 297	32.5	54.2	12.87	12.65	12.85	11.45
15	5	2	13	34.4	ON 381	35.8	56.6	12.89	12.68	12.88	11.48
					OFF 383	36.2	58.8	12.18	12.69	12.89	11.49
15	5	3	58	132.3	ON 388	38.8	61.5	12.12	12.71	12.11	11.51
					OFF 313	42.4	67.9	12.14	12.73	12.13	11.53
16	2	1	7	18.5	ON 317	44.7	74.5	12.16	12.74	12.14	11.54
					OFF 317	45.8	75.7	12.16	12.74	12.14	11.54
16	2	8	14	37.8	ON 273	14.2	135.5	11.95	12.89	11.49	18.89
					OFF 271	12.1	135.8	11.94	11.93	11.33	18.73
18	2	1	14	37.8	ON 314	42.4	68.1	12.15	12.73	12.13	11.53
					OFF 315	43.1	78.3	12.15	12.73	12.13	11.53
18	2	2	28	52.9	ON 319	45.7	79.8	12.17	12.75	12.15	11.55
					OFF 319	46.2	82.6	12.17	12.75	12.15	11.55
19	4	1	52	137.5	ON 316	43.3	78.5	12.15	12.74	12.14	11.54
					OFF 319	45.4	78.7	12.17	12.74	12.14	11.54
19	4	2	22	58.2	ON 328	46.3	83.2	12.17	12.75	12.15	11.55
					OFF 328	46.5	87.2	12.17	12.75	12.15	11.55
22	4	1	11	29.1	ON 296	33.2	125.4	12.86	12.66	12.86	11.46
					OFF 295	31.9	126.3	12.86	12.65	12.85	11.45
22	4	2	11	29.1	ON 288	22.8	132.5	11.98	12.46	11.86	11.26
					OFF 279	28.5	132.9	11.97	12.41	11.81	11.21
23	4	1	45	119.8	ON 311	42.8	113.4	12.13	12.73	12.13	11.53
					OFF 386	38.6	118.9	12.11	12.71	12.11	11.51
23	4	2	16	42.3	ON 388	35.4	123.1	12.88	12.68	12.88	11.48
					OFF 297	33.7	124.5	12.87	12.67	12.87	11.47
23	4	3	11	29.1	ON 291	38.2	127.8	12.84	12.63	12.83	11.43
					OFF 289	28.8	128.5	12.83	12.61	12.81	11.41
23	4	4	11	29.1	ON 285	26.2	138.3	12.81	12.56	11.96	11.36
					OFF 283	24.8	138.9	12.88	12.53	11.93	11.33
24	3	1	119	314.8	ON 384	38.1	119.7	12.18	12.78	12.18	11.58
					OFF 285	26.6	129.8	12.81	12.57	11.97	11.37
31	2	1	14	37.8	ON 319	31.2	54.3	12.17	12.64	12.84	11.44
					OFF 321	32.4	55.6	12.18	12.65	12.85	11.45
32	2	1	28	52.9	ON 331	42.1	69.7	12.22	12.73	12.13	11.53
					OFF 332	43.1	72.6	12.23	12.73	12.13	11.53
32	4	8	15	39.7	ON 288	18.8	133.5	11.98	12.31	11.71	11.11

				OFF 279	15.9	133.8	11.98	12.28	11.68	11.88
34	2	1	15	ON 332	39.7	64.8	12.23	12.71	12.11	11.51
				OFF 333	48.2	66.2	12.23	12.72	12.12	11.52
34	2	2	21	ON 335	55.5	73.8	12.24	12.74	12.14	11.54
				OFF 335	44.3	77.3	12.24	12.74	12.14	11.54
35	4	1	54	ON 334	142.8	66.2	12.23	12.72	12.12	11.52
				OFF 335	43.2	73.6	12.24	12.74	12.14	11.54
35	4	2	23	ON 335	68.8	77.6	12.24	12.74	12.14	11.54
				OFF 335	45.1	81.5	12.24	12.74	12.14	11.54
36	4	1	117	ON 334	389.5	65.9	12.23	12.72	12.12	11.52
				OFF 335	45.2	82.8	12.24	12.74	12.14	11.54
38	4	1	12	ON 385	31.7	121.5	12.18	12.69	12.89	11.49
				OFF 383	34.6	122.5	12.18	12.68	12.88	11.48
38	4	2	11	ON 298	29.1	138.8	12.83	12.55	11.95	11.35
				OFF 288	24.8	138.4	12.82	12.51	11.91	11.31
39	4	1	46	ON 321	121.7	188.8	12.18	12.74	12.14	11.54
				OFF 315	48.4	114.1	12.15	12.72	12.12	11.52
39	4	2	17	ON 388	45.8	118.9	12.12	12.78	12.18	11.58
				OFF 386	36.2	128.5	12.11	12.69	12.89	11.49
39	4	3	12	ON 299	31.7	124.3	12.88	12.66	12.86	11.46
				OFF 298	31.8	125.1	12.87	12.65	12.85	11.45
39	4	4	11	ON 294	29.1	127.4	12.85	12.62	12.82	11.42
				OFF 293	28.8	127.9	12.85	12.68	12.88	11.48
48	3	1	119	ON 313	314.8	115.1	12.14	12.72	12.12	11.52
				OFF 295	29.7	126.7	12.86	12.62	12.82	11.42
47	4	1	35	ON 314	92.6	48.4	12.14	12.43	11.83	11.23
				OFF 318	24.6	58.7	12.17	12.53	11.93	11.33
48	2	1	19	ON 334	58.3	65.2	12.24	12.71	12.11	11.51
				OFF 335	48.6	68.8	12.24	12.72	12.12	11.52
48	4	8	15	ON 283	39.7	131.4	12.88	12.46	11.86	11.26
				OFF 281	19.8	131.9	11.99	12.38	11.78	11.18
58	5	1	97	ON 336	256.6	68.3	12.24	12.69	12.89	11.49
				OFF 339	42.2	72.1	12.26	12.73	12.13	11.53
51	4	1	53	ON 337	148.2	62.1	12.25	12.78	12.18	11.58
				OFF 338	48.9	68.8	12.25	12.72	12.12	11.52
51	4	2	23	ON 339	68.8	72.3	12.26	12.73	12.13	11.53
				OFF 338	43.4	75.8	12.25	12.74	12.14	11.54
53	4	1	19	ON 383	58.3	128.5	12.89	12.69	12.89	11.49
				OFF 388	34.2	122.3	12.88	12.67	12.87	11.47
54	6	1	36	ON 388	95.2	117.2	12.12	12.71	12.11	11.51
				OFF 382	35.3	128.9	12.89	12.68	12.88	11.48
54	6	2	11	ON 293	29.1	127.2	12.85	12.61	12.81	11.41
				OFF 291	27.6	127.8	12.84	12.59	11.99	11.39
54	6	3	56	ON 288	148.1	132.9	11.98	12.29	11.69	11.89
				OFF 275	18.4	134.5	11.95	11.78	11.18	18.58
55	6	1	185	ON 324	277.7	182.1	12.19	12.74	12.14	11.54
				OFF 389	38.8	116.2	12.12	12.71	12.11	11.51
55	6	2	12	ON 382	31.7	128.5	12.89	12.69	12.89	11.49
				OFF 381	34.8	121.5	12.88	12.68	12.88	11.48
55	6	3	11	ON 297	29.1	124.1	12.87	12.66	12.86	11.46
				OFF 296	31.4	124.9	12.86	12.64	12.84	11.44

56	5	1	88	211.6	ON 318	39.8	115.1	12.13	12.72	12.12	11.52
					OFF 298	33.8	123.4	12.07	12.66	12.86	11.46
63	3	1	35	92.6	ON 316	16.9	47.8	12.16	12.25	11.65	11.85
					OFF 321	28.6	48.8	12.18	12.42	11.82	11.22
63	3	2	14	37.8	ON 325	23.6	49.9	12.28	12.58	11.98	11.38
					OFF 327	25.8	51.8	12.28	12.54	11.94	11.34
64	2	1	28	52.9	ON 338	36.8	61.1	12.25	12.69	12.89	11.49
					OFF 338	38.8	63.6	12.25	12.78	12.18	11.58
65	7	8	9	23.8	ON 296	4.4	44.5	12.86	11.82	18.42	9.82
					OFF 297	5.6	45.8	12.87	11.19	18.59	9.99
65	7	1	72	198.4	ON 338	38.9	54.8	12.22	12.64	12.84	11.44
					OFF 334	36.7	61.6	12.23	12.69	12.89	11.49
66	5	1	97	256.6	ON 332	33.2	56.9	12.23	12.66	12.86	11.46
					OFF 335	48.1	67.3	12.24	12.72	12.12	11.52
67	2	1	188	285.7	ON 333	34.6	58.4	12.23	12.68	12.88	11.48
					OFF 334	41.6	78.7	12.24	12.73	12.13	11.53
68	2	1	119	314.8	ON 333	34.4	58.2	12.23	12.67	12.87	11.47
					OFF 334	42.1	71.8	12.24	12.73	12.13	11.53
69	2	1	26	68.8	ON 332	44.1	77.6	12.23	12.74	12.14	11.54
					OFF 331	44.7	81.8	12.22	12.74	12.14	11.54
69	2	2	19	58.3	ON 388	39.8	116.6	12.88	12.71	12.11	11.51
					OFF 297	37.2	118.6	12.87	12.78	12.18	11.58
78	4	1	11	29.1	ON 384	41.1	112.7	12.18	12.72	12.12	11.52
					OFF 383	48.8	114.1	12.89	12.72	12.12	11.52
78	4	2	11	29.1	ON 289	32.6	124.4	12.83	12.66	12.86	11.46
					OFF 288	31.2	125.1	12.82	12.64	12.84	11.44
71	4	1	46	121.7	ON 321	45.5	96.3	12.18	12.74	12.14	11.54
					OFF 314	44.8	103.6	12.15	12.74	12.14	11.54
71	4	2	16	42.3	ON 388	42.5	189.4	12.12	12.73	12.13	11.53
					OFF 385	41.2	111.6	12.11	12.73	12.13	11.53
71	4	3	11	29.1	ON 299	39.8	116.5	12.88	12.71	12.11	11.51
					OFF 297	37.8	117.7	12.87	12.78	12.18	11.58
71	4	4	11	29.1	ON 294	36.8	128.8	12.85	12.69	12.89	11.49
					OFF 293	34.7	121.7	12.85	12.68	12.88	11.48
72	3	1	122	322.7	ON 313	44.1	184.7	12.14	12.74	12.14	11.54
					OFF 294	36.2	128.8	12.85	12.69	12.89	11.49
74	4	8	21	55.5	ON 328	27.8	51.7	12.21	12.58	11.98	11.38
					OFF 338	29.8	53.5	12.22	12.61	12.81	11.41
79	5	1	34	89.9	ON 313	12.7	45.6	12.14	11.98	11.38	18.78
					OFF 318	16.5	47.8	12.16	12.23	11.63	11.83
79	5	2	14	37.8	ON 321	19.6	47.7	12.18	12.38	11.78	11.18
					OFF 323	21.1	48.7	12.19	12.43	11.83	11.23
79	5	3	53	148.2	ON 327	24.5	58.8	12.28	12.53	11.93	11.33
					OFF 331	29.5	53.7	12.22	12.62	12.82	11.42
88	2	1	28	52.9	ON 334	33.7	57.8	12.23	12.67	12.87	11.47
					OFF 334	35.3	59.3	12.24	12.68	12.88	11.48
82	6	1	73	193.1	ON 327	25.8	58.7	12.28	12.56	11.96	11.36
					OFF 332	32.4	56.1	12.23	12.65	12.85	11.45

PHOTOGRAPHIC SUMMARY

SECRET

AFT PAN	CAMERA NO	195	8.2000	SLIT W/21	FILTER	3484 FILM			
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
PRE-FLT	188	264.5							
1 2 0	18	47.6	ON 384	25.7	131.7	12.10	12.55	11.95	11.35
			OFF 382	23.5	132.9	12.89	12.58	11.98	11.38
2 2 1	16	42.3	ON 329	45.1	71.5	12.21	12.74	12.14	11.54
			OFF 329	45.9	74.8	12.22	12.75	12.15	11.55
2 2 2	22	58.2	ON 329	47.6	83.3	12.22	12.75	12.15	11.55
			OFF 329	47.9	87.1	12.21	12.75	12.15	11.55
3 2 1	109	288.3	ON 329	45.9	74.2	12.22	12.75	12.15	11.55
			OFF 328	47.8	91.7	12.21	12.75	12.15	11.55
4 2 1	128	317.4	ON 329	45.7	73.8	12.22	12.74	12.14	11.54
			OFF 328	47.7	93.8	12.21	12.75	12.15	11.55
6 3 1	35	92.6	ON 294	38.4	128.1	12.85	12.63	12.83	11.43
			OFF 288	26.4	138.8	12.82	12.57	11.97	11.37
6 3 2	11	29.1	ON 277	18.5	134.4	11.97	12.33	11.73	11.13
			OFF 275	17.8	134.9	11.96	12.26	11.66	11.86
7 3 1	13	34.4	ON 385	37.8	128.4	12.18	12.78	12.18	11.58
			OFF 383	36.6	122.8	12.18	12.69	12.89	11.49
7 3 2	16	42.3	ON 297	32.8	125.9	12.87	12.66	12.86	11.46
			OFF 295	31.1	127.4	12.86	12.64	12.84	11.44
7 3 3	11	29.1	ON 282	22.9	132.5	11.99	12.49	11.89	11.29
			OFF 288	21.6	133.1	11.98	12.45	11.85	11.25
8 5 1	66	174.6	ON 294	38.8	127.5	12.85	12.64	12.84	11.44
			OFF 283	23.5	132.2	11.99	12.58	11.98	11.38
10 5 8	28	52.9	ON 312	48.7	63.3	12.14	12.72	12.12	11.52
			OFF 314	42.1	66.8	12.15	12.73	12.13	11.53
15 5 1	33	87.3	ON 294	28.9	51.3	12.85	12.61	12.81	11.41
			OFF 388	32.4	54.8	12.88	12.65	12.85	11.45
15 5 2	14	37.8	ON 384	34.9	56.3	12.18	12.68	12.88	11.48
			OFF 386	36.1	57.7	12.11	12.69	12.89	11.49
15 5 3	58	132.3	ON 318	38.7	61.8	12.13	12.71	12.11	11.51
			OFF 316	42.3	67.3	12.16	12.73	12.13	11.53
16 2 1	19	58.3	ON 328	44.7	73.5	12.18	12.74	12.14	11.54
			OFF 321	45.4	76.7	12.18	12.74	12.14	11.54
16 2 8	15	39.7	ON 275	14.4	135.1	11.95	12.18	11.58	18.98
			OFF 273	12.3	135.4	11.94	11.94	11.34	18.74
18 2 1	14	37.8	ON 317	42.3	67.4	12.16	12.73	12.13	11.53
			OFF 318	43.1	69.7	12.17	12.73	12.13	11.53
18 2 2	21	55.5	ON 322	45.7	78.8	12.18	12.75	12.15	11.55
			OFF 323	46.1	81.5	12.19	12.75	12.15	11.55
19 4 1	53	148.2	ON 319	43.2	69.8	12.17	12.74	12.14	11.54
			OFF 322	45.4	77.7	12.18	12.74	12.14	11.54
19 4 2	23	68.8	ON 323	46.3	82.1	12.19	12.75	12.15	11.55
			OFF 323	46.5	85.9	12.19	12.75	12.15	11.55
28 4 1	116	386.8	ON 319	43.1	69.5	12.17	12.73	12.13	11.53
			OFF 323	46.5	87.2	12.19	12.75	12.15	11.55
22 4 1	11	29.1	ON 299	33.3	124.2	12.88	12.66	12.86	11.46
			OFF 297	32.8	125.2	12.87	12.65	12.85	11.45
22 4 2	18	26.5	ON 282	22.1	131.9	11.99	12.46	11.86	11.26
			OFF 288	28.7	132.4	11.98	12.42	11.82	11.22

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23	4	1	45	119.0	ON 314	42.0	111.3	12.15	12.73	12.13	11.53
					OFF 308	38.6	117.2	12.12	12.71	12.11	11.51
23	4	2	16	42.3	ON 302	35.5	121.8	12.09	12.68	12.08	11.48
					OFF 300	33.8	123.4	12.08	12.67	12.07	11.47
23	4	3	11	29.1	ON 293	30.3	126.8	12.05	12.63	12.03	11.43
					OFF 291	28.9	127.6	12.04	12.61	12.01	11.41
23	4	4	11	29.1	ON 287	26.3	129.6	12.02	12.57	11.97	11.37
					OFF 285	24.9	130.2	12.01	12.54	11.94	11.34
24	3	1	119	314.8	ON 307	38.2	118.2	12.11	12.71	12.11	11.51
					OFF 287	26.7	129.8	12.02	12.57	11.97	11.37
31	2	1	14	37.8	ON 322	31.1	53.9	12.18	12.64	12.04	11.44
					OFF 324	32.4	55.3	12.19	12.65	12.05	11.45
32	2	1	7	18.5	ON 335	42.2	68.8	12.24	12.73	12.13	11.53
					OFF 335	42.4	70.2	12.24	12.73	12.13	11.53
32	4	0	15	39.7	ON 282	18.2	133.1	11.99	12.32	11.72	11.12
					OFF 280	16.1	133.5	11.98	12.21	11.61	11.01
34	2	1	15	39.7	ON 334	39.3	63.4	12.24	12.71	12.11	11.51
					OFF 335	40.2	65.6	12.24	12.72	12.12	11.52
34	2	2	21	55.5	ON 337	43.6	72.8	12.25	12.74	12.14	11.54
					OFF 337	44.2	76.2	12.25	12.74	12.14	11.54
35	4	1	54	142.8	ON 336	40.5	65.5	12.24	12.72	12.12	11.52
					OFF 337	43.2	72.7	12.25	12.74	12.14	11.54
35	4	2	23	60.8	ON 337	44.6	76.5	12.25	12.74	12.14	11.54
					OFF 337	45.0	80.2	12.25	12.74	12.14	11.54
36	4	1	118	312.1	ON 336	40.3	65.3	12.24	12.72	12.12	11.52
					OFF 337	45.2	81.4	12.25	12.74	12.14	11.54
38	4	1	12	31.7	ON 306	36.0	120.3	12.11	12.69	12.09	11.49
					OFF 304	34.7	121.4	12.10	12.68	12.08	11.48
38	4	2	11	29.1	ON 298	25.6	129.4	12.03	12.55	11.95	11.35
					OFF 289	24.1	129.8	12.03	12.52	11.92	11.32
39	4	1	47	124.3	ON 323	43.4	105.9	12.19	12.74	12.14	11.54
					OFF 316	40.5	112.4	12.16	12.72	12.12	11.52
39	4	2	17	45.0	ON 310	38.0	117.6	12.13	12.70	12.10	11.50
					OFF 307	36.3	119.3	12.11	12.69	12.09	11.49
39	4	3	12	31.7	ON 300	33.3	123.4	12.08	12.66	12.06	11.46
					OFF 299	31.9	124.2	12.07	12.65	12.05	11.45
39	4	4	11	29.1	ON 295	29.6	126.6	12.06	12.62	12.02	11.42
					OFF 294	28.2	127.3	12.05	12.60	12.00	11.40
40	3	1	119	314.8	ON 315	40.3	113.5	12.15	12.72	12.12	11.52
					OFF 296	29.9	125.9	12.06	12.62	12.02	11.42
47	4	1	35	92.6	ON 315	20.8	48.3	12.15	12.42	11.82	11.22
					OFF 320	24.5	50.4	12.17	12.53	11.93	11.33
48	2	1	19	50.3	ON 336	39.5	64.5	12.25	12.71	12.11	11.51
					OFF 337	40.5	67.2	12.25	12.72	12.12	11.52
48	4	0	15	39.7	ON 284	22.0	131.0	12.00	12.45	11.86	11.26
					OFF 282	19.9	131.6	11.99	12.39	11.79	11.19
50	5	1	98	259.2	ON 338	36.2	59.7	12.25	12.69	12.09	11.49
					OFF 341	42.2	71.0	12.27	12.73	12.13	11.53
51	4	1	53	140.2	ON 339	37.5	61.5	12.26	12.70	12.10	11.50
					OFF 341	40.8	67.8	12.27	12.72	12.12	11.52
51	4	2	23	60.8	ON 341	42.6	71.2	12.27	12.73	12.13	11.53

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