SECRET

[redacted]

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CORONA

FLIGHT

1037-

1037-1

SECRET

SECRET

12 PAGES
(NOT INCLUDING PEST)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-38

VEHICLE NO. 1632

MISSION NO. 1037-1

CAMERA NOS. 198/199

DATE 11-12-66

SECRET

SECRET

SYSTEM NO. J-38
VEHICLE NO. 1632
MISSION NO. 1037-1
CAMERA NOS. 198/199

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SYSTEM NO. J-38
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GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 198

SLAVE CAMERA SERIAL NO. 199

S/I -1 SERIAL NO. D101/128/124

S/I -2 SERIAL NO. D106/136/134

LAUNCH DATE 11-08-66

LAUNCH TIME 19-57-00 GMT

REACTIVATION DATE

REACTIVATION ORBIT NO.

ORBIAL PARAMETERS (REV. 32)

PERIOD 89.378 MIN. ECCENTRICITY 0.01112

PERIGEE 91.785 NM PERIGEE LAT. 14.534 DEG. N

APOGEE 171.300 NM INCL. ANGLE 100.074 DEG.

RECOVERY ORBIT NO. 66

RECOVERY DATE 11-12-66

SYSTEM NO. J-38
VEHICLE NO. 1632
MISSION NO. 1037-1
CAMERA NOS. 198/199

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS	CAMERA NO. 198	CAMERA NO. 19
PANORAMIC OPTICS SLIT WIDTH	.225 IN	.175
PANORAMIC OPTICS FILTER TYPE	WRATTEN 23A	WRATTEN 21
HORIZON OPTICS EXP. TIME	1/100 SEC.	1/100 SE
HORIZON OPTICS APERTURE	F6.3 SUPPLY	F8.0 SUPP
HORIZON OPTICS APERTURE	F8.0 TAKE-UP	F6.3 TAKE-
HORIZON OPTICS FILTER TYPE	WRATTEN 25	WRATTEN 25

STELLAR INDEX CAMERA SETTINGS

	D101/128/124 STELLAR	D101/128/124 INDEX	D106/136/134 STELLAR	D106/136/134 INDEX
EXPOSURE TIME	1.0 SEC	1/500 SEC	2.0 SEC	1/500
APERTURE SETTING	F1.8	F4.5	F1.8	F4.5
FILTER TYPE	NONE	WRATTEN 21	NONE	WRATT

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

FILM

PANORAMIC CAMERAS	CAMERA NO. 198	CAMERA NO. 199
TYPE	7J-40	7J-40
LENGTH	16000 FT.	16000 FT.
SPLICES	3	4
EMUL. DATA	264-5-9-6	264-5-9-6
L6. BETWEEN SPLICES	2000-5470-5935-2595C	3289-5911-5383-1117-0300C

STELLAR/INDEX CAMERAS

	D101/128/124 STELLAR	D101/128/124 INDEX	D106/136/134 STELLAR	D106/136/134 INDEX
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	151-48-4-6	116-8-5-6	151-48-4-6	116-8

SYSTEM NO. J-38
VEHICLE NO. 1632
MISSION NO. 1037-1
CAMERA NOS. 198/199

LENS DATA SUMMARY MASTER CAMERA NO. 198

LENS SERIAL NO. 2112435
EQUIVALENT OPERATIONAL FOCAL LENGTH 609.628 MM

RESOLUTION

		LINES/MM	FILM TYPE	TARGET CONTRAST
STATIC	BENCH TEST	234	3404	HIGH
		130	3404	LOW
DYNAMIC				
	BOSTON	184	3404	HIGH
		121	3404	LOW
	AP	-0	3404	HIGH
		110	3404	LOW

NOTE BOSTON RESOLUTION OF 184 LINES/MM REPORTED IN [redacted]

DISTORTION - POSITIVE (PINCUSHION)

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

SYSTEM NO. J-38
VEHICLE NO. 1632
MISSION NO. 1837-1
CAMERA NOS. 198/199

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 198)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12834	12855
OPERATIONAL FOCAL LENGTH	55.00 MM	54.96 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.010 MM	0.020 MM
20 DEG. OFF AXIS	0.030 MM	0.060 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.015 MM	0.015 MM

RESOLUTION

ANGLE OFF AXIS-DEG.		0	5	10	15	20	25	27.5	30
TAKE-UP	(RADIAL)	209	208	184	168	139	169	-0	91
	(TANGENTIAL)	187	185	114	78	73	77	-0	70
SUPPLY	(RADIAL)	209	186	184	181	156	134	-0	57
	(TANGENTIAL)	209	185	181	155	116	109	-0	70

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

NOTE

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