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12 PAGES
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CORONA J FLIGHT DATA BOOK

SYSTEM NO. JX27
VEHICLE NO. 1621
MISSION NO. 1827-1
CAMERA NOS. 164/163
DATE 12-18-65

PAGE 1

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SYSTEM NO. JX27
VEHICLE NO. 1621
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CAMERA NOS. 164/163

TABLE OF CONTENTS

PAGE NO.

GENERAL FLIGHT DATA	3
LENS SETTINGS AND FILM TYPES	4
LENS DATA SUMMARY MASTER CAMERA	5
LENS DATA SUMMARY MASTER CAMERA HORIZON OPTICS	6
LENS DATA SUMMARY SLAVE CAMERA	7
LENS DATA SUMMARY SLAVE CAMERA HORIZON OPTICS	8
PANORAMIC CAMERA FORMAT CALIBRATION DIMENSIONS	9
LENS DATA SUMMARY STELLAR-INDEX -1	10
LENS DATA SUMMARY STELLAR-INDEX -2	11
CYCLE PERIOD DATA	12
PERFORMANCE ESTIMATE	13- UP

PAGE 2

~~SECRET~~
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SYSTEM NO. JX27
VEHICLE NO. 1621
MISSION NO. 1827-1
CAMERA NOS. 164/163

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 164

SLAVE CAMERA SERIAL NO. 163

S/I -1 SERIAL NO. D71/87/87

S/I -2 SERIAL NO. D68/74/83

LAUNCH DATE 12-09-65

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBIAL PARAMETERS (REV. 9)

PERIOD 98.778 MIN.

ECCENTRICITY 0.81998

PERIGEE 97.488 NM

PERIGEE LAT. 17.268 DEG. N

APOGEE 248.988 NM

INCL. ANGLE 88.858 DEG.

RECOVERY ORBIT NO. 17

RECOVERY DATE 12-18-65

PAGE 3

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SYSTEM NO. JX27
VEHICLE NO. 1621
MISSION NO. 1627-1
CAMERA NOS. 164/163

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS	CAMERA NO. 164	CAMERA NO. 16
PANORAMIC OPTICS SLIT WIDTH	.250 IN	.175
PANORAMIC OPTICS FILTER TYPE	WRATTEN 25	WRATTEN 21
HORIZON OPTICS EXP. TIME	1/100 SEC.	1/100 SE
HORIZON OPTICS APERTURE	F6.8 SUPPLY	F8.0 SUPP
HORIZON OPTICS APERTURE	F8.0 TAKE-UP	F6.8 TAKE-
HORIZON OPTICS FILTER TYPE	WRATTEN 25	WRATTEN 25

STELLAR INDEX CAMERA SETTINGS

	D71/87/87		D68/74/83	
	STELLAR	INDEX	STELLAR	INDEX
EXPOSURE TIME	2.0 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. 164	CAMERA NO. 163
TYPE	3484	3484
LENGTH	16000 FT.	16000 FT.
SPLICES	5	5
EMUL. DATA	226-55-9-5	226-55-9-5

STELLAR/INDEX CAMERAS

	D71/87/87		D68/74/83	
	STELLAR	INDEX	STELLAR	INDEX
TYPE	3481	3488	3481	3488
EMUL. DATA	124-35-18-5	186-14-8-5	124-35-18-5	186-1

SYSTEM NO. JX27
VEHICLE NO. 1621
MISSION NO. 1827-1
CAMERA NOS. 164/163

LENS DATA SUMMARY MASTER CAMERA NO. 164

LENS SERIAL NO. 1382435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.600 MM

RESOLUTION

STATIC	BENCH TEST	LINES/MM	FILM TYPE	TARGET CONTRA
		250	3484	HIGH
		145	3484	LOW
DYNAMIC	BOSTON	192	3484	HIGH
		131	3484	LOW
	AP	192	3484	HIGH
		119	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	0.002	0.000	0.000	0.000	0.002	0.003

SYSTEM NO. JX27
 VEHICLE NO. 1621
 MISSION NO. 1027-1
 CAMERA NOS. 164/163

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 164)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	812271	813510
OPERATIONAL FOCAL LENGTH	54.33 MM	55.28 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.011 MM	0.004 MM
20 DEG. OFF AXIS	0.018 MM	0.012 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.008 MM	0.005 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	170	132	108	82	70	68	64	-0
(TANGENTIAL)	170	125	100	84	60	64	55	-0
SUPPLY (RADIAL)	116	103	86	56	49	66	62	-0
(TANGENTIAL)	116	97	85	61	61	48	36	-0

DYNAMIC (ZERO DEG)

TAKE-UP 147 LINES/MM
 SUPPLY 147 LINES/MM

NOTE

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

SYSTEM NO. JX27
VEHICLE NO. 1621
MISSION NO. 1827-1
CAMERA NOS. 164/163

LENS DATA SUMMARY SLAVE CAMERA NO. 163

LENS SERIAL NO. 1392435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.688 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTRA
	BENCH TEST	243	3484	HIGH
		158	3484	LOW
DYNAMIC				
	BOSTON	183	3484	HIGH
		123	3484	LOW
	AP	192	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	0.005	0.003	0.001	0.000	0.000	0.001	0.003

SYSTEM NO. JX27
 VEHICLE NO. 1621
 MISSION NO. 1827-1
 CAMERA NOS. 164/163



LENS DATA SUMMARY (HORIZON CAMERAS FOR SLAVE CAMERA NO. 163)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	812386	814815
OPERATIONAL FOCAL LENGTH	55.85 MM	54.56 MM
RADIAL DISTORTION		
18 DEG. OFF AXIS	0.887 MM	0.884 MM
28 DEG. OFF AXIS	0.883 MM	0.811 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.818 MM	0.883 MM

RESOLUTION

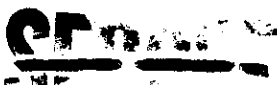
ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	82	183	188	84	62	78	62	-8
(TANGENTIAL)	73	97	188	82	61	68	41	-8
SUPPLY (RADIAL)	178	-8	132	77	85	92	77	-8
(TANGENTIAL)	178	-8	138	98	88	55	42	-8

DYNAMIC (ZERO DEG)

TAKE-UP 152 LINES/MM
 SUPPLY 153 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. JX27
 VEHICLE NO. 1621
 MISSION NO. 1827-1
 CAMERA NOS. 164/163

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FORMAT DIMENSIONS AND CALIBRATIONS

	CAMERA NO. 164	CAMERA NO. 163
A	75.997	76.848
B	354.898	355.144
C	789.581	718.187
D	56.566	56.525
E	56.458	56.485
XT	-8.384	-8.399
YT	-8.831	-8.863
XS	-8.463	-8.886
YS	8.886	-8.866
XVO	8.914	-8.942
YVO	1.987	1.891
DTX	-8.387	-8.417
DTY	2.969	1.937
DSX	-8.455	-8.828
DSY	-1.994	-3.866
DMX	8.868	-8.932
DMY	21.987	21.891
HEIGHT	54.858	55.238
WIDTH	754.589	754.942
DIRECTION		
FLIGHT	-Y	+Y
SCAN	+X	+X

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

```

      1
    -X+Y 1 +X+Y
  -----1-----
    -X-Y 1 +X-Y
      1
  
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SYSTEM NO. JX27
VEHICLE NO. 1621
MISSION NO. 1827-1
CAMERA NOS. 164/163

~~SECRET~~

LENS DATA SUMMARY STELLAR INDEX D71/87/87 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	10555	817713
RESEAU SERIAL NO.	87	87
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84	MM 38.38 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	884/84	884/76	110/81	107/53	891/1

AWAR 76 LINES/MM
READ FROM 3400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	-0.0007 INCHES/.937 INCHES	-0.0005 INCHES/2.25 IN

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SYSTEM NO. JX27
 VEHICLE NO. 1621
 MISSION NO. 1827-1
 CAMERA NOS. 164/163

LENS DATA SUMMARY STELLAR INDEX D68/74/83 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	18768	817464
RESEAU SERIAL NO.	83	74
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84	MM 38.49 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	083/83	081/81	101/83	098/57	088/2

AWAR 76 LINES/MM
 READ FROM 3400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	-0.0009 INCHES/.937 INCHES	-0.0007 INCHES/2.25 IN

SYSTEM NO. JX27
VEHICLE NO. 1621
MISSION NO. 1827-1
CAMERA NOS. 164/163

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CYCLE PERIOD DATA

V/H RAMP LEVEL	SETTING AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORI CYCLE PERIOD-SEC NO.
			MASTER	SLAVE	MASTER	SLAVE	
8	2	45	5.752	5.484	5.628	5.518	8
8	2	1652	2.231	2.231	2.242	2.248	16

NOTE

A -B OR * INDICATE NO DATA AVAILABLE.

PAGE 12

~~SECRET~~

- A. 1027-1
- B. DRY
- C. FINAL PERFORMANCE ESTIMATE, PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER		164													
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM			
PRE-FLT 118															
1	4	0	13	ON	2 64 30	156 18W	800500	838197	9	22	37	5	1211	81425	
				OFF	2 62 1	154 11W	798882	819816	9	22	37	45	1221	81465	
5	1	1	157	ON	2 63 53	112 49E	794287	823434	10	4	48	28	1211	16828	
				OFF	2 37 31	124 21E	647894	671497	10	4	47	14	13	4	17234
6	1	1	90	ON	2 63 38	90 12E	789769	818743	10	6	11	19	1212	22279	
				OFF	2 48 8	98 37E	694876	720250	10	6	15	20	1249	22520	
6	1	2	152	ON	2 42 34	100 17E	667657	692004	10	6	16	45	1257	22605	
				OFF	2 19 23	104 34E	600149	621961	10	6	22	31	1320	22951	
6	1	3	07	ON	2 0 50	106 49E	607058	629129	10	6	27	4	1334	23224	
				OFF	3 9 37	100 1E	635763	658910	10	6	29	38	1341	23378	
7	1	1	15	ON	1 27 14	81 11W	1354345	1405396	10	7	20	0	155	26400	
				OFF	1 32 14	80 21W	1329824	1379894	10	7	21	21	159	26481	
7	1	2	20	ON	2 63 26	67 31E	785720	814548	10	7	42	9	1212	27729	
				OFF	2 28 5	80 26E	615047	637417	10	7	51	9	1312	28269	
8	1	1	160	ON	2 63 33	44 34E	783862	812611	10	9	12	53	1211	33173	
				OFF	2 36 20	56 3E	638926	662192	10	9	19	51	13	4	33591
8	1	2	17	ON	2 21 35	58 34E	601546	623410	10	9	23	31	1317	33811	
				OFF	2 18 58	58 56E	598424	620172	10	9	24	10	1319	33850	
9	1	0	9	ON	1 39 36	124 33W	1283038	1331240	10	10	24	50	2	6	37400
				OFF	1 42 32	123 49W	1266015	1313539	10	10	25	38	210	37530	
9	1	1	100	ON	2 60 31	24 6E	760065	788739	10	10	44	27	1220	38667	
				OFF	2 43 16	31 33E	665435	689699	10	10	48	53	1255	38933	
9	1	2	07	ON	2 31 33	34 8E	622019	644651	10	10	51	49	13	8	39109
				OFF	2 21 26	35 45E	600625	622456	10	10	54	19	1317	39259	
9	1	3	115	ON	2 5 43	37 43E	599689	621484	10	10	58	11	1329	39491	
				OFF	3 11 29	39 42E	644817	668304	10	11	2	25	1341	39745	
10	1	1	42	ON	2 54 28	4 43E	721188	747557	10	12	16	48	1235	44200	
				OFF	2 47 13	7 32E	682317	707217	10	12	18	39	1248	44319	
10	1	2	07	ON	2 29 31	11 39E	615380	637763	10	12	23	4	13	9	44504
				OFF	2 19 22	13 11E	597596	619313	10	12	25	34	1318	44734	
10	1	3	94	ON	2 12 33	14 4E	594838	616451	10	12	27	16	1323	44836	
				OFF	3 1 30	15 41E	613194	635494	10	12	30	43	1333	45043	
11	1	1	175	ON	2 29 19	11 7W	613814	636138	10	13	53	51	13	9	50031
				OFF	2 3 14	7 39W	603529	625468	10	14	0	17	1329	50417	
12	1	1	15	ON	2 61 16	44 56W	759320	787136	10	15	16	31	1216	54991	
				OFF	2 58 28	43 5W	741657	768801	10	15	17	15	1224	55035	
13	1	1	231	ON	2 5 34	53 37W	600460	622283	10	17	1	14	1326	61274	
				OFF	3 30 46	48 54W	752172	779714	10	17	10	12	1354	61812	
14	1	1	17	ON	2 39 56	81 47W	645826	669351	10	18	23	30	1256	66210	
				OFF	2 37 16	81 11W	635953	659100	10	18	24	10	1259	66250	
14	1	2	01	ON	2 29 28	79 41W	612871	635160	10	18	26	6	13	7	66366

		OFF	2	26	16	79	18W	686821	628854	18	18	26	53	1318	66413			
14	1	3	152	ON	2	6	32	76	34W	599431	621216	18	18	31	46	1325	66786	
		OFF	3	16	37	73	51W	671548	696841	18	18	37	28	1342	67848			
15	1	1	17	ON	2	48	26	184	45W	647832	678683	18	19	54	8	1255	71648	
		OFF	2	37	46	184	8W	637884	668281	18	19	54	48	1258	71688			
16	1	8	15	ON	2	33	8	126	2W	621598	644214	18	21	26	43	13	2	77283
		OFF	2	38	41	125	35W	614985	637353	18	21	27	28	13	4	77248		

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER		163																	
OPN NO	FRA	G	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM							
PRE-FLT 121																			
1	4	8	13	ON	2	65	35	157	28W	888588	838197	9	22	37	5	12	7	81425	
		OFF	2	63	6	155	7W	798882	819816	9	22	37	45	1217	81465				
5	1	1	155	ON	2	64	57	111	44E	794287	823434	18	4	48	28	12	7	16828	
		OFF	2	38	27	124	5E	647894	671497	18	4	47	14	13	3	17234			
6	1	1	89	ON	2	64	42	89	8E	789769	818743	18	6	11	19	12	7	22279	
		OFF	2	49	7	98	13E	694876	728258	18	6	15	28	1248	22528				
6	1	2	149	ON	2	43	32	99	58E	667657	692884	18	6	16	45	1256	22685		
		OFF	2	28	15	184	24E	688149	621961	18	6	22	31	1328	22951				
6	1	3	66	ON	2	1	42	186	39E	687858	629129	18	6	27	4	1333	23224		
		OFF	3	8	42	187	51E	635763	658918	18	6	29	38	1341	23378				
7	1	1	15	ON	1	25	16	81	37W	1354345	1485396	18	7	28	8	153	26488		
		OFF	1	38	19	88	49W	1329824	1379894	18	7	21	21	158	26481				
7	1	2	218	ON	2	64	38	66	29E	785728	814548	18	7	42	9	12	8	27729	
		OFF	2	28	58	88	14E	615847	637417	18	7	51	9	1312	28269				
8	1	1	158	ON	2	64	37	43	31E	783862	812611	18	9	12	53	12	7	33173	
		OFF	2	37	15	55	48E	638926	662192	18	9	19	51	13	3	33591			
8	1	2	17	ON	2	22	27	58	23E	681546	623418	18	9	23	31	1317	33811		
		OFF	2	19	58	58	45E	598424	628172	18	9	24	18	1319	33858				
9	1	8	9	ON	1	37	45	125	5W	1283838	1331248	18	18	24	58	2	4	37498	
		OFF	1	48	43	124	24W	1266815	1313539	18	18	25	38	2	8	37538			
9	1	1	99	ON	2	61	34	23	16E	768865	788739	18	18	44	27	1217	38667		
		OFF	2	44	13	31	14E	665435	689699	18	18	48	53	1253	38933				
9	1	2	66	ON	2	32	26	33	55E	622819	644651	18	18	51	49	13	7	39189	
		OFF	2	22	19	35	34E	688625	622456	18	18	54	19	1316	39259				
9	1	3	113	ON	2	6	35	37	33E	599689	621484	18	18	58	11	1328	39491		
		OFF	3	18	33	39	31E	644817	668384	18	11	2	25	1348	39745				
10	1	1	41	ON	2	55	28	4	9E	721188	747557	18	12	16	48	1233	44288		
		OFF	2	48	12	7	9E	682317	787217	18	12	18	39	1247	44319				
10	1	2	66	ON	2	38	24	11	27E	615388	637763	18	12	23	4	13	8	44584	
		OFF	2	28	14	13	1E	597596	619313	18	12	25	34	1317	44734				
10	1	3	92	ON	2	13	25	13	54E	594838	616451	18	12	27	16	1322	44836		
		OFF	3	8	37	15	32E	613194	635494	18	12	38	43	1332	45843				
11	1	1	172	ON	2	38	12	11	28W	613814	636138	18	13	53	51	13	8	58831	
		OFF	2	4	6	7	49W	683529	625468	18	14	8	17	1329	58417				
12	1	1	15	ON	2	62	18	45	48W	759328	787136	18	15	16	31	1213	54991		
		OFF	2	59	38	43	47W	741657	768881	18	15	17	15	1222	55835				
13	1	1	248	ON	2	6	26	53	46W	688468	622283	18	17	1	14	1326	61274		

		OFF	3	29	41	49	9W	752172	779714	18	17	18	12	1353	61812			
14	1	1	16	ON	2	48	51	82	4W	645826	669351	18	18	23	38	1255	66218	
		OFF	2	38	18	81	26W	635953	659188	18	18	24	18	1258	66258			
14	1	2	21	ON	2	38	21	79	53W	612871	635168	18	18	26	6	13	6	66366
		OFF	2	27	9	79	21W	686821	628854	18	18	26	53	13	9	66413		
14	1	3	15B	ON	2	7	24	76	44W	599431	621216	18	18	31	46	1324	66786	
		OFF	3	15	39	74	2W	671548	696841	18	18	37	28	1341	67848			
15	1	1	16	ON	2	41	21	185	2W	647832	678683	18	19	54	8	1253	71648	
		OFF	2	38	41	184	24W	637884	668281	18	19	54	48	1257	71688			
16	1	8	15	ON	2	34	2	126	16W	621598	644214	18	21	26	43	13	1	77283
		OFF	2	31	34	125	48W	614985	637353	18	21	27	28	13	4	77248		

PHOTOGRAPHIC SUMMARY

FWD PAN	CAMERA NO	164	8.2588	SLIT	W/25	FILTER	3484	FILM			
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
PRE-FLT	118	312.1									
1	4	8	13	34.4	ON 211	2.5	28.7	11.57	18.85	9.45	8.85
					OFF 216	4.9	28.7	11.61	18.45	9.85	9.25
5	1	1	157	415.3	ON 213	3.1	28.1	11.59	18.16	9.56	8.96
					OFF 261	27.2	31.4	11.88	11.93	11.33	18.73
6	1	1	98	238.8	ON 285	3.4	27.9	11.53	18.28	9.68	9.88
					OFF 238	17.8	29.8	11.75	11.65	11.85	18.45
6	1	2	152	482.8	ON 248	22.8	38.8	11.81	11.83	11.23	18.63
					OFF 271	42.5	38.6	11.93	12.88	11.48	18.88
6	1	3	67	177.2	ON 265	55.7	54.6	11.98	12.18	11.58	18.98
					OFF 253	68.7	69.8	11.84	12.18	11.58	18.98
7	1	1	15	39.7	ON 184	-61.9	76.9	18.56	8.88	8.88	8.88
					OFF 184	-68.3	68.1	18.56	8.88	8.88	8.88
7	1	2	228	581.9	ON 199	3.6	27.8	11.49	18.23	9.63	9.83
					OFF 272	35.4	34.2	11.94	12.83	11.43	18.83
8	1	1	168	423.2	ON 199	3.4	27.6	11.49	18.21	9.61	9.81
					OFF 261	28.4	31.2	11.88	11.95	11.35	18.75
8	1	2	17	45.8	ON 279	48.9	37.8	11.98	12.87	11.47	18.87
					OFF 288	43.8	38.5	11.98	12.88	11.48	18.88
9	1	8	9	23.8	ON 153	-57.1	56.9	11.11	8.88	8.88	8.88
					OFF 153	-55.3	53.2	11.11	8.88	8.88	8.88
9	1	1	188	264.5	ON 288	6.4	27.5	11.55	18.65	18.85	9.45
					OFF 248	22.3	29.4	11.81	11.82	11.22	18.62
9	1	2	67	177.2	ON 269	32.6	32.6	11.92	12.81	11.41	18.81
					OFF 279	41.1	36.9	11.98	12.87	11.47	18.87
9	1	3	115	384.2	ON 282	52.9	48.6	11.99	12.18	11.58	18.98
					OFF 265	61.7	72.7	11.98	12.18	11.58	18.98
18	1	1	42	111.1	ON 221	12.1	27.7	11.64	11.27	18.67	18.87
					OFF 238	18.7	28.6	11.75	11.69	11.89	18.49
18	1	2	67	177.2	ON 269	34.4	33.1	11.92	12.82	11.42	18.82
					OFF 277	42.8	37.9	11.97	12.88	11.48	18.88
18	1	3	94	248.6	ON 288	48.1	42.4	11.98	12.18	11.58	18.98
					OFF 274	57.5	56.8	11.95	12.18	11.58	18.98
11	1	1	175	462.9	ON 269	34.6	33.8	11.92	12.83	11.43	18.83

				OFF 277	54.7	58.9	11.97	12.18	11.58	18.98
12	1	1	15	39.7 ON 284	5.7	27.8	11.53	18.56	9.96	9.36
				OFF 211	8.3	27.1	11.58	18.98	18.38	9.78
13	1	1	231	611.8 ON 278	53.4	48.8	11.97	12.18	11.58	18.98
				OFF 223	61.8	118.2	11.66	12.18	11.58	18.98
14	1	1	17	45.8 ON 254	25.4	29.4	11.84	11.98	11.38	18.78
				OFF 258	27.8	38.8	11.86	11.94	11.34	18.74
14	1	2	21	55.5 ON 269	34.6	32.5	11.93	12.83	11.43	18.83
				OFF 273	37.3	33.8	11.94	12.85	11.45	18.85
14	1	3	152	482.8 ON 278	52.8	46.9	11.97	12.18	11.58	18.98
				OFF 252	63.6	82.1	11.83	12.18	11.58	18.98
15	1	1	17	45.8 ON 253	25.8	29.1	11.84	11.89	11.29	18.69
				OFF 258	27.4	29.7	11.86	11.93	11.33	18.73
16	1	8	15	39.7 ON 265	31.5	38.9	11.98	11.99	11.39	18.79
				OFF 268	33.6	31.7	11.92	12.82	11.42	18.82

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 163 0.1750 SLIT W/21				FILTER			3484 FILM				
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
PRE-FLT	121	328.8									
1	4	8	13	34.4	ON 299	1.5	27.6	12.87	18.51	9.91	9.31
					OFF 386	3.9	27.7	12.11	18.93	18.33	9.73
5	1	1	155	418.8	ON 382	2.1	27.8	12.89	18.62	18.82	9.42
					OFF 365	26.4	38.9	12.37	12.57	11.97	11.37
6	1	1	89	235.4	ON 291	2.3	26.9	12.84	18.67	18.87	9.47
					OFF 335	16.9	28.5	12.24	12.25	11.65	11.85
6	1	2	149	394.1	ON 349	22.8	29.6	12.38	12.46	11.86	11.26
					OFF '79	41.9	38.8	12.42	12.73	12.13	11.53
6	1	3	66	174.6	ON 372	55.2	53.5	12.39	12.75	12.15	11.55
					OFF 356	68.4	68.2	12.33	12.75	12.15	11.55
7	1	1	15	39.7	ON 154	-62.4	88.4	11.12	8.88	8.88	8.88
					OFF 154	-61.1	71.1	11.12	8.88	8.88	8.88
7	1	2	218	576.6	ON 283	2.5	26.8	12.88	18.78	18.18	9.58
					OFF 382	34.7	33.7	12.43	12.68	12.88	11.48
8	1	1	158	417.9	ON 283	2.4	26.6	12.88	18.68	18.88	9.48
					OFF 367	27.6	38.8	12.37	12.59	11.99	11.39
8	1	2	17	45.8	ON 391	48.2	36.5	12.46	12.72	12.12	11.52
					OFF 394	42.3	37.9	12.47	12.73	12.13	11.53
9	1	8	9	23.8	ON 228	-58.2	58.9	11.63	8.88	8.88	8.88
					OFF 228	-56.5	54.9	11.63	8.88	8.88	8.88
9	1	1	99	261.9	ON 295	5.4	26.7	12.86	11.16	18.56	9.96
					OFF 358	21.4	29.8	12.38	12.44	11.84	11.24
9	1	2	66	174.6	ON 377	31.8	32.1	12.41	12.65	12.85	11.45
					OFF 392	48.4	36.4	12.46	12.72	12.12	11.52
9	1	3	113	298.9	ON 395	52.3	47.7	12.48	12.75	12.15	11.55
					OFF 373	61.5	71.8	12.39	12.75	12.15	11.55
18	1	1	41	188.4	ON 314	11.1	27.1	12.15	11.84	11.24	18.64
					OFF 336	17.8	28.1	12.25	12.38	11.78	11.18
18	1	2	66	174.6	ON 378	33.6	32.6	12.42	12.67	12.87	11.47

10	1	3	92	243.3	OFF 398	42.1	37.3	12.46	12.73	12.13	11.53
					ON 393	47.5	41.7	12.47	12.75	12.15	11.55
					OFF 386	57.8	55.6	12.44	12.75	12.15	11.55
11	1	1	172	454.9	ON 379	33.8	32.6	12.42	12.67	12.87	11.47
					OFF 398	54.2	49.9	12.46	12.75	12.15	11.55
12	1	1	15	39.7	ON 291	4.7	26.2	12.84	11.86	18.46	9.86
					OFF 388	7.3	26.4	12.88	11.43	18.83	18.23
13	1	1	228	683.1	ON 392	52.8	47.1	12.46	12.75	12.15	11.55
					OFF 317	62.2	188.4	12.16	12.75	12.15	11.55
14	1	1	16	42.3	ON 358	24.6	28.9	12.34	12.53	11.93	11.33
					OFF 364	27.8	29.6	12.36	12.58	11.98	11.38
14	1	2	21	55.5	ON 388	33.9	32.8	12.42	12.67	12.87	11.47
					OFF 384	36.6	33.2	12.44	12.69	12.89	11.49
14	1	3	158	396.8	ON 392	52.2	46.8	12.47	12.75	12.15	11.55
					OFF 356	63.5	88.2	12.33	12.75	12.15	11.55
15	1	1	16	42.3	ON 358	24.1	28.6	12.33	12.52	11.92	11.32
					OFF 363	26.5	29.3	12.36	12.57	11.97	11.37
16	1	8	15	39.7	ON 374	38.7	38.4	12.48	12.63	12.83	11.43
					OFF 378	32.9	31.2	12.41	12.66	12.86	11.46

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D71
STELLAR	2.8	3481	NONE	87		
INDEX	1/588	3488	W/21	87		

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	Q	OFF LAT	OFF LONG	SEC DUR		
PRE-FLT	16	1.58	3.17												
1	4	8	2	0.20	8.48	22	37	5	2	64	156W	2	62	154W	48
5	1	1	23	2.28	4.55	4	48	28	2	63	112E	2	37	124E	486
6	1	1	13	1.29	2.57	6	11	19	2	63	98E	2	48	98E	241
6	1	2	21	2.88	4.16	6	16	45	2	42	188E	2	19	184E	346
6	1	3	18	8.99	1.98	6	27	4	2	8	186E	3	9	188E	154
7	1	1	2	8.20	8.48	7	28	8	1	27	81W	1	32	88W	81
7	1	2	31	3.87	6.14	7	42	9	2	63	67E	2	28	88E	548
8	1	1	23	2.28	4.55	9	12	53	2	63	44E	2	36	56E	418
8	1	2	2	8.20	8.48	9	23	31	2	21	58E	2	18	58E	39
9	1	8	1	8.18	8.28	18	24	58	1	39	124W	1	42	123W	48
9	1	1	15	1.48	2.97	18	44	27	2	68	24E	2	43	31E	266
9	1	2	9	8.89	1.78	18	51	49	2	31	34E	2	21	35E	158
9	1	3	17	1.68	3.37	18	58	11	2	5	37E	3	11	39E	254
10	1	1	6	8.59	1.19	12	16	48	2	54	4E	2	47	7E	111
10	1	2	18	8.99	1.98	12	23	4	2	29	11E	2	19	13E	158
10	1	3	13	1.29	2.57	12	27	16	2	12	14E	3	1	15E	287
11	1	1	25	2.47	4.95	13	53	51	2	29	11W	2	3	7W	386
12	1	1	3	8.38	8.59	15	16	31	2	61	44W	2	58	43W	44
13	1	1	33	3.27	6.53	17	1	14	2	5	53W	3	38	48W	538
14	1	1	2	8.28	8.48	18	23	38	2	39	81W	2	37	81W	48

14	1	2	3	8.38	8.59	18	26	6	2	29	79W	2	26	79W	47
14	1	3	22	2.18	4.36	18	31	46	2	6	76W	3	16	73W	342
15	1	1	2	8.28	8.48	19	54	8	2	48	184W	2	37	184W	48
16	1	8	2	8.28	8.48	21	26	43	2	33	126W	2	38	125W	37

NOTE - QUALITY OF ABOVE PERFORMANCE DATA IS QUESTIONABLE
DUE TO LOSS OF VEHICLE ATTITUDE CONTROL GAS

A. 1827-1
 B. DRY
 C. FINAL PERFORMANCE ESTIMATE, PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 164

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD	
1	4	0	13	8	3 ON 1223	0.3584	0.02957	2.202	52.84	-1.0	5.2
					OFF 40	0.3594	0.03032	2.258	54.19	-1.0	5.3
5	1	1	157	8	3 ON 1240	0.3544	0.02991	2.227	53.45	-1.0	4.4
					OFF 406	0.4327	0.03651	2.719	65.25	-1.0	2.7
6	1	1	90	8	3 ON 1184	0.3488	0.02875	2.141	51.39	-1.0	-8.8
					OFF 241	0.3957	0.03339	2.486	59.67	-1.0	1.2
6	1	2	152	8	3 ON 1510	0.4124	0.03480	2.591	62.19	-1.0	1.1
					OFF 346	0.4497	0.03794	2.826	67.81	-1.0	-1.5
6	1	3	07	8	3 ON 2130	0.4483	0.03715	2.767	66.48	-1.0	-2.4
					OFF 154	0.4286	0.03549	2.643	63.43	-1.0	-2.8
7	1	1	15	8	2 ON 0	0.1733	0.01463	1.089	26.14	-0.9	2.4
					OFF 81	0.1733	0.01463	1.089	26.14	-0.9	2.3
7	1	2	220	8	2 ON 1126	0.3385	0.02789	2.076	49.84	0.1	-3.7
					OFF 540	0.4521	0.03814	2.840	68.17	0.1	1.6
8	1	1	100	8	2 ON 1129	0.3314	0.02797	2.083	49.98	0.1	-3.6
					OFF 410	0.4333	0.03656	2.722	65.34	0.1	1.4
8	1	2	17	8	2 ON 1767	0.4633	0.03989	2.911	69.86	0.1	1.7
					OFF 39	0.4658	0.03938	2.927	70.24	0.1	1.7
9	1	0	9	8	2 ON 0	0.2547	0.02149	1.600	38.40	-0.9	2.4
					OFF 48	0.2547	0.02149	1.600	38.40	-0.9	2.3
9	1	1	100	8	2 ON 1180	0.3456	0.02916	2.172	52.12	0.1	-2.6
					OFF 266	0.4125	0.03481	2.592	62.21	0.1	0.8
9	1	2	07	8	2 ON 1621	0.4462	0.03765	2.804	67.29	0.1	1.5
					OFF 150	0.4634	0.03910	2.911	69.87	0.1	1.6
9	1	3	115	8	2 ON 2004	0.4676	0.03945	2.938	70.51	0.1	2.3
					OFF 254	0.4484	0.03716	2.767	66.41	0.1	4.0
10	1	1	42	8	2 ON 1277	0.3679	0.03104	2.311	55.47	-1.0	-2.1
					OFF 111	0.3948	0.03331	2.481	59.54	-1.0	-0.9
10	1	2	07	8	2 ON 1654	0.4460	0.03763	2.802	67.25	-1.0	0.3
					OFF 150	0.4606	0.03887	2.894	69.46	-1.0	0.5
10	1	3	94	8	2 ON 1905	0.4643	0.03917	2.917	70.01	-1.0	0.8
					OFF 207	0.4549	0.03838	2.858	68.59	-1.0	2.0
11	1	1	175	8	2 ON 1657	0.4464	0.03766	2.805	67.31	-1.0	0.2
					OFF 386	0.4685	0.03886	2.894	69.45	-1.0	1.5
12	1	1	15	8	2 ON 1172	0.3398	0.02867	2.135	51.23	-1.0	-4.6
					OFF 44	0.3509	0.02961	2.205	52.92	-1.0	-3.9
13	1	1	231	8	2 ON 2014	0.4620	0.03898	2.903	69.66	-1.0	1.3
					OFF 538	0.3712	0.03132	2.332	55.97	-1.0	3.3
14	1	1	17	8	2 ON 1500	0.4217	0.03558	2.650	63.59	-1.0	-0.2
					OFF 40	0.4287	0.03617	2.694	64.65	-1.0	-0.1
14	1	2	21	8	2 ON 1665	0.4474	0.03775	2.811	67.47	-1.0	0.2

CFMOT

				OFF	47	0.4527	0.83820	2.845	68.27	-1.8	0.2	
14	1	3	152	8	2 ON	2084	0.4624	0.83982	2.986	69.73	-1.8	1.2
					OFF	342	0.4193	0.83538	2.635	63.23	-1.8	3.4
15	1	1	17	8	2 ON	1584	0.4288	0.83551	2.644	63.46	-1.8	-0.2
					OFF	48	0.4278	0.83618	2.688	64.52	-1.8	-0.2
16	1	0	15	8	2 ON	1616	0.4486	0.83718	2.769	66.44	-1.8	0.2
					OFF	37	0.4455	0.83759	2.799	67.17	-1.8	0.2

RATE ESTIMATE

AFT PAN CAMERA NUMBER 163

OPN NO	FR	R	A	TUR/DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC	RATE I/SEC	PCT CALIB	RATE REQD		
1	4	0	13	8	3 ON	1223	0.3472	0.82929	2.181	52.35	-2.3	4.3
					OFF	48	0.3556	0.83080	2.234	53.62	-2.3	4.3
5	1	1	155	8	3 ON	1240	0.3589	0.82961	2.285	52.92	-2.3	3.5
					OFF	486	0.4246	0.83583	2.668	64.83	-2.3	0.9
6	1	1	09	8	3 ON	1184	0.3381	0.82853	2.124	58.98	-2.3	-0.8
					OFF	241	0.3898	0.83289	2.449	58.77	-2.3	-0.3
6	1	2	149	8	3 ON	1518	0.4855	0.83422	2.548	61.15	-2.3	-0.6
					OFF	346	0.4486	0.83718	2.768	66.44	-2.3	-3.6
6	1	3	06	8	3 ON	2138	0.4318	0.83643	2.713	65.11	-2.3	-4.4
					OFF	154	0.4132	0.83487	2.596	62.31	-2.3	-3.9
7	1	1	15	8	2 ON	0	0.1789	0.81518	1.124	26.98	-2.3	0.0
					OFF	81	0.1789	0.81518	1.124	26.98	-2.3	-0.0
7	1	2	218	8	2 ON	1126	0.3285	0.82772	2.864	49.54	-1.3	-4.3
					OFF	548	0.4442	0.83748	2.791	66.98	-1.3	-0.1
8	1	1	153	8	2 ON	1129	0.3294	0.82788	2.878	49.67	-1.3	-4.3
					OFF	418	0.4263	0.83597	2.679	64.29	-1.3	-0.2
8	1	2	17	8	2 ON	1767	0.4549	0.83838	2.858	68.59	-1.3	-0.1
					OFF	39	0.4573	0.83859	2.873	68.96	-1.3	-0.1
9	1	0	9	8	2 ON	0	0.2558	0.82159	1.687	38.58	-2.3	0.0
					OFF	48	0.2558	0.82159	1.687	38.58	-2.3	-0.4
9	1	1	99	8	2 ON	1188	0.3429	0.82893	2.155	51.71	-1.3	-3.4
					OFF	266	0.4866	0.83431	2.555	61.31	-1.3	-0.6
9	1	2	06	8	2 ON	1621	0.4387	0.83781	2.756	66.15	-1.3	-0.2
					OFF	158	0.4558	0.83839	2.859	68.61	-1.3	-0.2
9	1	3	113	8	2 ON	2884	0.4598	0.83873	2.884	69.21	-1.3	0.5
					OFF	254	0.4331	0.83654	2.721	65.31	-1.3	2.4
10	1	1	41	8	2 ON	1277	0.3651	0.83881	2.294	55.86	-2.1	-2.9
					OFF	111	0.3988	0.83298	2.456	58.93	-2.1	-1.9
10	1	2	06	8	2 ON	1654	0.4397	0.83718	2.763	66.38	-2.1	-1.1
					OFF	158	0.4537	0.83828	2.858	68.41	-2.1	-1.1
10	1	3	92	8	2 ON	1985	0.4571	0.83857	2.872	68.94	-2.1	-0.8
					OFF	287	0.4482	0.83782	2.816	67.58	-2.1	0.5
11	1	1	172	8	2 ON	1657	0.4481	0.83713	2.765	66.36	-2.1	-1.3
					OFF	386	0.4536	0.83827	2.858	68.48	-2.1	0.0
12	1	1	15	8	2 ON	1172	0.3383	0.82854	2.125	51.81	-2.1	-5.1
					OFF	44	0.3489	0.82944	2.193	52.62	-2.1	-4.5
13	1	1	228	8	2 ON	2814	0.4549	0.83839	2.858	68.68	-2.1	-0.2

				OFF	538	0.3683	0.03107	2.314	55.53	-2.1	2.6	
14	1	1	16	8	2 ON	1588	0.4165	0.03514	2.617	62.81	-2.1	-1.4
				OFF	48	0.4232	0.03571	2.659	63.82	-2.1	-1.4	
14	1	2	21	8	2 ON	1665	0.4411	0.03722	2.771	66.51	-2.1	-1.2
				OFF	47	0.4461	0.03764	2.803	67.27	-2.1	-1.3	
14	1	3	158	8	2 ON	2884	0.4554	0.03843	2.861	68.67	-2.1	-8.3
				OFF	342	0.4142	0.03495	2.683	62.46	-2.1	2.2	
15	1	1	16	8	2 ON	1584	0.4156	0.03587	2.612	62.68	-2.1	-1.4
				OFF	48	0.4224	0.03564	2.654	63.69	-2.1	-1.5	
16	1	0	15	8	2 ON	1616	0.4346	0.03667	2.738	65.53	-2.1	-1.2
				OFF	37	0.4392	0.03786	2.759	66.23	-2.1	-1.3	

RAMP PROFILE

R- 8 A- 3 PERIOD= 3840

R= 0.3220 A= 0.1332

TUR	PER	CPS	ANG V
-0	5.297	0.1888	0.01708
100	5.259	0.1902	0.01720
200	5.149	0.1942	0.01757
300	4.976	0.2009	0.01817
400	4.761	0.2101	0.01900
500	4.515	0.2215	0.02003
600	4.255	0.2350	0.02125
700	3.990	0.2503	0.02264
800	3.745	0.2670	0.02415
900	3.510	0.2849	0.02577
1000	3.295	0.3035	0.02745
1100	3.099	0.3227	0.02919
1200	2.874	0.3408	0.03147
1300	2.680	0.3723	0.03367
1400	2.533	0.3948	0.03571
1500	2.412	0.4146	0.03750
1600	2.320	0.4311	0.03899
1700	2.254	0.4436	0.04012
1800	2.214	0.4517	0.04086
1900	2.197	0.4551	0.04116
2000	2.204	0.4536	0.04103
2100	2.235	0.4474	0.04047
2200	2.290	0.4366	0.03949
2300	2.372	0.4217	0.03814
2400	2.481	0.4031	0.03646
2500	2.621	0.3816	0.03451
2600	2.794	0.3579	0.03237
2700	3.004	0.3329	0.03011
2800	3.211	0.3111	0.02814
2900	3.421	0.2923	0.02644
3000	3.649	0.2741	0.02479
3100	3.894	0.2568	0.02323
3200	4.151	0.2409	0.02179
3300	4.412	0.2267	0.02050

3400	4.665	0.2144	0.01939
3500	4.895	0.2043	0.01848
3600	5.087	0.1966	0.01778
3700	5.223	0.1915	0.01732
3800	5.298	0.1898	0.01718

R= 8 A= 2 PERIOD= 3840

R= 0.3220 A= 0.1470

TUR	PER	CPS	ANG V
-0	5.714	0.1750	0.01583
100	5.666	0.1765	0.01596
200	5.525	0.1810	0.01637
300	5.389	0.1884	0.01704
400	5.039	0.1985	0.01795
500	4.737	0.2111	0.01909
600	4.425	0.2268	0.02044
700	4.118	0.2428	0.02196
800	3.827	0.2613	0.02364
900	3.556	0.2811	0.02542
1000	3.315	0.3016	0.02728
1100	3.096	0.3228	0.02920
1200	2.852	0.3507	0.03172
1300	2.649	0.3775	0.03414
1400	2.480	0.4023	0.03639
1500	2.357	0.4242	0.03837
1600	2.260	0.4424	0.04001
1700	2.192	0.4562	0.04126
1800	2.150	0.4652	0.04207
1900	2.133	0.4689	0.04241
2000	2.140	0.4673	0.04226
2100	2.172	0.4604	0.04164
2200	2.230	0.4485	0.04056
2300	2.315	0.4320	0.03907
2400	2.430	0.4115	0.03722
2500	2.579	0.3877	0.03507
2600	2.760	0.3616	0.03270
2700	2.994	0.3340	0.03021
2800	3.220	0.3100	0.02804
2900	3.456	0.2892	0.02616
3000	3.716	0.2691	0.02434
3100	3.999	0.2501	0.02262
3200	4.301	0.2325	0.02103
3300	4.613	0.2168	0.01961
3400	4.921	0.2032	0.01838
3500	5.200	0.1921	0.01737
3600	5.447	0.1836	0.01661
3700	5.620	0.1779	0.01609
3800	5.700	0.1752	0.01585

CLOCK SUMMARY

ORDER FIT 1

SYS TIME I/P CL TIME I/P COMP SYS TM DELTA ST REV STA

0.37507598D 05 0.270060523D 06 0.375075980D 05 -0.0000 9 [REDACTED]

0.77257928D 05 0.309818856D 06 0.772579280D 05 -0.0000 16 [REDACTED]

A0=-0.2325529046D 06 A1= 0.999999924532D 00

SIGMA=0.00000 NO. POINTS= 2

RATIO OF CLOCK TIME TO SYS TIME= 0.100000007547D 01

CLOCK OPERATIONS

OPN NO	FR		H	M	S	DEC	BINARY
1 4 0	13	ON	22	37	5	227578	01101100100001001000010010000
		OFF	22	37	45	227618	01101100100010010110011010000
5 1 1	157	ON	4	40	28	249381	011101101110101000000010001000
		OFF	4	47	14	249787	011101110000110111001001111000
6 1 1	90	ON	6	11	19	254032	01110011000000110110110000000
		OFF	6	15	20	255073	01110011010000001101011101000
6 1 2	102	ON	6	16	45	255157	011100110101010110001100001000
		OFF	6	22	31	255503	011100111010101010101010011000
6 1 3	07	ON	6	27	4	255777	0111001111101101100011101000
		OFF	6	29	38	255931	0111010000010011001001111000
7 1 1	15	ON	7	20	0	258953	0111011011110100111100101000
		OFF	7	21	21	259034	0111011100001000101110010000
7 1 2	200	ON	7	42	9	260281	011111000000111001001010101000
		OFF	7	51	9	260821	01111100010111101000000001000
8 1 1	100	ON	9	12	53	265726	011111010110101010100000110000
		OFF	9	19	51	266144	0111110111010000100100000000
8 1 2	17	ON	9	23	31	266364	01111110000000110010001100000
		OFF	9	24	10	266403	01111111000000111110010111000
9 1 0	9	ON	10	24	50	270043	10000000110001000011101111000
		OFF	10	25	38	270091	10000000110010100001011111000
9 1 1	100	ON	10	44	27	271220	1000000101010011111010010000
		OFF	10	48	53	271486	10000001011101000110000110000
9 1 2	07	ON	10	51	49	271662	10000001100010011101110110000
		OFF	10	54	19	271812	10000001100111000010110100000
9 1 3	115	ON	10	58	11	272044	10000001101110000111111100000
		OFF	11	2	25	272298	10000001110101111000000010000
10 1 1	42	ON	12	16	48	276761	1000001111110000100110101000
		OFF	12	18	39	276872	10000100000001011101101000000
10 1 2	07	ON	12	23	4	277137	10000100001001100011001101000
		OFF	12	25	34	277287	10000100001110001000001011000
10 1 3	04	ON	12	27	16	277389	10000100010001001111011001000
		OFF	12	30	43	277596	10000100010111100011101100000
11 1 1	175	ON	13	53	51	282584	10000110101111110001111000000
		OFF	14	0	17	282970	10000110111011100011110010000
12 1 1	15	ON	15	16	31	287544	10001001000111001001011000000
		OFF	15	17	15	287588	10001001001000011111010100000
13 1 1	231	ON	17	1	14	293827	10001100000110111000110111000