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①

26
6
lity

Q12 FOCUS :

- MAKE FINAL SETTING W RED NOS. DECREASING
- FOR CENTRE TO VIOLET, CORRECT BY INCREASING RED NOS
- DECREASING TEMP CAUSES CENTRE TO VIOLET
- 50 DIVISIONS = 21 MICRONS (DIFF. BETWEEN CENTRE & OUTSIDE)
= PHYSICAL MOVEMENT OF CAMERA ~ 150 MICRONS

TYPICAL FOCUS : 90-R (WINTER)
5-R (SUMMER)

③

same Temp. ...

XULS

ome Temp.

our Angle	De
End	

Home Temp.

Transparency Conditions

4

Q

[illegible]

52

Dome Temp. 41.0

Focus

Dome Temp.

Hour Angle
End

0345.

6105

OCZE

324W

1024

1394

1791

4.

13

207

Dome Temp.

Q

[illegible]

baked Nov 20-21

Date 29/30 Nov 72 Wed-Thurs Observer Tn-LR Julian Day 201

[illegible]

Dome Temp. 20° 14 = 50°

Transparency Conditions *Excellent*

soon high cirrus

[illegible]

Baked No 20-21

Observer LR - RL

Julian Day

[illegible]

Dome Temp.12°F.....H 72%

Transparency Conditions

Done was frozen. It took me 1 hr. to get it turning again R.

[illegible]

Bahad Ruz

Dome Temp. _____

Focus

Dome Temp.

Hour Angle
End

02° 37' N +

03446W -

50410W +

 $10^4 \text{ } 20^m \text{ E } | \rightarrow$

* booked Dec 2

Dome Temp. 17.

Focus

Dome Temp. 43

Hour	Angle	End
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100
11	110	110
12	120	120
13	130	130
14	140	140
15	150	150
16	160	160
17	170	170
18	180	180
19	190	190
20	200	200
21	210	210
22	220	220
23	230	230
24	240	240
25	250	250
26	260	260
27	270	270
28	280	280
29	290	290
30	300	300
31	310	310
32	320	320
33	330	330
34	340	340
35	350	350
36	360	360

 $248W + 3$

windy

[illegible]

15

Dome Temp. ..

Focus

Dome Temp. - 1

Hour Angle
End

0 57W + 2

25845

03W

224352

1

00454)

Answer

AKM:

[illegible]

10

1

1

10

11

Dome Temp. 16°F 70%

Focus

Dome Temp. 120°F 77%

Transparency Conditions light haze

very hazy after 23:00
clouds from S.W. at 23:00

15

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
57	A	0 ^h 57 W	+20° 30'	4"	7.74	K0 III	17-17-17	Hd-Lin Bin	800/250		fine
2	B	2 ^h 58 W	+52° 20'	"	7.75	F4 IV	17-17-17	"	800/200		fine
47	A	1 ^h 03 W	+50° 44'	5"	5.62	B9 IV	17-17-17	Hd Sp Bin	400/100		fine
3	3	02^h 35 W 2 ^h 23 W	+71° 35'		7.86	K0 IV	17-17-17	Hd Vis Bin	800/200	U (?) start	log + scratches
		caught error - should be (2 23 W) 180 sec.									
48	A	00 ^h 45 W	+14° 16'	4	4.18	B3 I	17-17-17	DBA - Sp Bin	200/60		fine
50	B	01 ^h 58 W	+16° 10'	4	4.73	B5 I	17-17-17	"	200/63		fine
54	A	02 ^h 37 W	+20° 19'	4	4.04	B7 IV	17-17-17	"	200/61		fine
							8-8 no field			clouds	
										closed up at 4:15	

Clocks wrong by 4^h. Power failure?

Date Dec 16-17 Sat-Sun

Observer *Tn-Waf*

..Julian Day

Dome Temp. _____
Focus _____
Dome Temp. _____

Dome Temp. 40 80%

Transparency Conditions *Good*

very windy

Warm room at $64-51^{\circ}\text{F}$

28

[illegible]

Date Dec 28/29, 1973²⁷ Observer Sy - Ri Julian Day _____

[illegible]

Hour Angle
End

0 044

Dome Temp.

Good savings

70

[illegible]

21

Focus

Dome Temp. . .

Hour Angle
End

Dome Temp.

Transparency Conditions

22

[illegible]

Date Jan 5-6 1973 Observer Prt./Ahn/Tn Julian Day.....

[illegible]

Dome Temp.

Transparency Conditions *clear*

w

[illegible]

Date Jan 6-7, 1973

Observer... Pt / Abn / Tn

Julian Day

[illegible]

Dome Temp. 0°F.....

Transparency Conditions clean

26

[illegible]

Date Jan 7-8, 1973

Observer PAT/Allen/T

Julian Day

[illegible]

* baked Dec 12

Date Jan 8-9 1973

Observer *Hu-Tn/Tn-Pr* Julian Day[illegible]

Dome Temp. 27.0

Focus

Dome Temp.

Transparency Conditions *Some cloud*

30

[illegible]

to be held Dec 12

Dome Temp. *70*

Focus

Dome Temp. 4

Hour	Angle	End
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100
11	110	110
12	120	120
13	130	130
14	140	140
15	150	150
16	160	160
17	170	170
18	180	180
19	190	190
20	200	200
21	210	210
22	220	220
23	230	230
24	240	240
25	250	250
26	260	260
27	270	270
28	280	280
29	290	290
30	300	300
31	310	310
32	320	320
33	330	330
34	340	340
35	350	350
36	360	360

156W

Dome Temp. +50 14 807.

Transparency Conditions Clear with scattered cloud²⁹
by 3 AM

[illegible]

23

Start

[illegible]

Dome Temp. 7° H = 87%

Transparency Conditions *Excellent*

34-

[illegible]

25

Dome Temp. 26°
Focus _____
Dome Temp. _____

[illegible]

Dome Temp.

35

[illegible]

* baked Dec/2

Date Jan 16/17 1973

Observer.

Hu-Tn/

Julian Day

[illegible]

38

very windy

[illegible]

Dome Temp. 10°F 70%

het werd eerst half
bedrukt

40

[illegible]

41

Dome Temp. 2
Focus
Dome Temp. 2

[illegible]

Dome Temp. 20° 917.

Some cloud 2nd half
Cloud by 6 AM.

42

[illegible]

Date 24/25 Jan 73

Observer Prt/Ahn/Tn

Julian Day

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

occasional thin clouds
occasional thick banks after 0300

44

ing Time
E.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

20-

45

420

70

* baked Jan 16

Date 25/26 JAN 73 THURS-FRI Observer G.I.-Tn/ Julian Day

[illegible]

Dome Temp. (29°F / 92% H) inside - out 66°

Transparency Conditions Excellent but ground haze

46

Focus

Dome Temp.

g Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
58	A	01 ^h 05 ^m W	+60° 35'	1"-2"	2.65	Bone	38 ^{sec}	G1 Shell	40/13		fine
1	B	00 ^h 31 ^m W	+50° 35'	1"-2"	4.03	B1	19-19	"	40/12		fine
1	J	01 ^h 13 ^m E	+48° 05'	"	4.1	B5ne	19-19	"	40/14		fine
28		00 ^h 47 E	+65° 35'	"	4.78	B2	19-19	"	40/13		fine
51		00 ^h 55 E	+24° 04'	"	5.13	B8	12-12-12	"	200/70		fine
4	A	00 ^h 46 ^m E	+30° 32'	"	7.2	A0ep	12-12-12	"	200/70	haze increasing	fine
										Dev. - MWPD 9min @ 68°F	
04	B	00 ^h 15 ^m W	+29° 48'	1"	7.5	A2	12-12-12	"	400/140		fine
	A	02 ^h 45 ^m W	+41° 01'	"	8.2	B3e	12-12-12	"	800/260		fine
5		02 ^h 02 ^m W	+37° 15'	"	2.58	B9.5p	18-18	W2 *	40/12		fine
							7-7	no filter			
										* Warren - It may be con	
										sider to record information	
										about development as blason	
										used to, just so people are aware	
										of any changes in procedure	

* barked Jan 16

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

233W

1 57E 1

Dome Temp. 10 F

Focus

Dome Temp.

Transparency Conditions Scattered Cloud

50

[illegible]

Date Jan 30-31 Tues-Wed Observer Tn-Sy Julian Day

Focus

Dome Temp. = 10

[illegible]

Dome Temp. -11°F H=75%

Transparency Conditions clearing by 04 some cloud

52

[illegible]

Dome Temp.

Transparency Conditions Excellent by O/S
continuous hope after 0300

5.4

[illegible]

* bated Jan 29

Dome Temp. 2

Focus

Dome Temp.

Observer T. H. / P. J. Am. Julian Day

Hour	Angle	End
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100
11	110	110
12	120	120
13	130	130
14	140	140
15	150	150
16	160	160
17	170	170
18	180	180
19	190	190
20	200	200
21	210	210
22	220	220
23	230	230
24	240	240
25	250	250
26	260	260
27	270	270
28	280	280
29	290	290
30	300	300
31	310	310
32	320	320
33	330	330
34	340	340
35	350	350
36	360	360

208W

221W

0 42E

1

104

212

4 18

ONE

1

56

at ~ 20:00 till 20:45

Transparency Conditions *Excellent* *Some have*

Focus

Dome Temp. 16° H-7570

[illegible]

B Jan 29

Date Feb 8-9 1973 Thu Fri

Observer G-A-R

Julian Day

[illegible]

Dome Temp.

POST 8

Transparency Conditions

58

[illegible]

TAP

B Jan 29

42-2

Date Feb 9-10, 1973 Fr. Sat. Observer G1 CB-Ri/H2-R. Julian Day

Dome Temp.

Focus

Dome Temp.

[illegible]

Dome Temp. 130°F 73%

Transparency Conditions

60

Focus

Dome Temp. 100°F 80%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 ^h 52W	+24°07'	2"	5.13	R	17-12-17	G1 5 L11	200/16		fine
—	—	—	—	—	17-	—	800/171	closed 2011-CLOUDS	fine
03 ^h 50W	-0°15'	2-3"	8.6	B8	17-17	He-weak		close up 21.30	weak
					780 sec.			(Dev 9 min MWP#2 @ 68°F)	
								* WARREN'S PLEASE OVER DEVELOP	
								#36847, (Dev 12 min MWP#2 @ 68°F)	
02 ^h 20E	+32°39'	3	6.26	KUT	17-17-17	Hd-Sp/Bi.	400/200		fine
01 ^h 19E	+75°26'	3	6.84	FO	17-17-17	"	400/160	clouds at 5:15 with snow ferns	fine
								closed up at 03:15	
								clouds at 06:15	

TAP

85 90

Dome Temp. _____
Focus _____
Dome Temp. _____

[illegible]

Dome Temp. 8°F 65% Transparency Conditions *good*
 Focus
 Dome Temp. -05°F 66%

62

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 ^h 50 ^m	+10°30'	4'	5.38	B6	171717	Bh. Sp B	200/60	had phone with G16 to close to the moon	22825
00 ^h 59 ^m	+09°40'		3.66	B8p	171717	"	200/68	Box #3	22826
						1 June		Dev 9mm MWP2 @ 60°	22827
									22828
									22829
									22830
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									22895
									22896
									22897
									22898
									22899
									22900

TAP

65

long

B^x Belovd Jan 29
13⁰⁰ " Feb 11

820 7.8

Date Sun-Mon Feb 11-12 1973 Observer W. J. R. Julian Day 712.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36852	HD 23862	03 43.3	+23° 51'	G-16	IIa ^x F	13/5	120°	18:26	19:04	A	00° 18W
36853	HD 24398	03 47.8		G-12	IIa ^x B ^x	13/5		19:15	19:17	B	01° 35W
36854 36854	HD 20902	03 17.2	49° 30'	G-12	IIa ^x B ^x	13/5	120°	19:26	19:30	C	01° 25W
36855	HD 21364	03 21.7	09 23	G-12	IIa ^x B ^x	13/5		19:40	19:44	A	01° 25W
36856	HD 28363	04 23.3	15° 51'	G-12	IIa ^x B ^x	9/3		19:55	20:27	B	01° 25W
36856T1	cal. step wedge for plate 36853 - 55				IIa ^x B ^x						
36856T2	cal. step wedge for plate 36856 - 64				IIa ^x B ^x						
36857	51473	06 ^h 52.4	-01° 14'	G-12	IIa ^x B ^x	13/3		20:39	21:33	A	01° 25W
36858	HD 13729	08 ^h 34.7	+20° 33'	G-12	IIa ^x B ^x	13/3		21:40	22:50	B	00° 35E
36859	HD 81976	09 ^h 24.0	+33° 45'	G-12	IIa ^x B ^x	13/3		22:56	23:45	A	00° 35E
36860	HD 104451	11 ^h 56.6	30° 06'	G-12	IIa ^x B ^x	13/3		23:51	01:45	B	00° 05E
36861	HD 97937	11 ^h 16.7	+13° 23'	G-12	IIa ^x B ^x	13/5		01:55	03:05	A	01° 11W
36862	HD 107325	12 15.3	+27 11	G-12	IIa ^x B ^x	13/5		03:11	03:39	B	00° 10W
36863	HD 137569	15 21.7	+15° 03'	G-12	IIa ^x B ^x	13/4		03:55	04:46	A	01° 25E
36864	HD 152224	16 47.0	+32° 44'	G-12	IIa ^x B ^x	13/5		05:05	06:07	B	01° 34E
36864 F1	from 65 out with us					13	06° F			B	

Dome Temp. ~~50°F~~ 50°F 68%

Focus

Dome Temp. -02°F 65%

Transparency Conditions Excellent!

entered clouds at 02:00
clear up at 03:30

64

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00° 28W	+24° 05'	2	5.13	Bc	2-2	G1 shell	200/500	right side of Box #3	2080E
09° 35W			2.7	cBc	25-25	R.U. H.	20/7		2080E
09° 23W	21 18W		2.07	ESb	55-25	R.U. std.	20/13		2080E
01° 29W			3.75	B8p	25-25	Bk-Sp. Bc	40/12		2080E
01° 15W	+16° 08'		7.14	F8	17-17-17	B1-Sp. Bc	40/100		2080E
01° 11W					180 sec			Dev 9 min MW22 @ 65°F	2080E
					180 sec			9 min MW22 @ 65°F	2080E
00 10E	-01° 17'	2	8.7	A0	17-17-17	"	800/151		2080E
00 39E	+20° 20'	2	8.18	dA5n	17-17-17	"	800/150	fid down	2080E
00:35E	+33° 38'	2	8.1	dA7	17-17-17	"	800/150		2080E
0005E	+29° 45'	2	8.7	gF3	17-17-17	"	800/200		2080E
01001W	+13° 02'	2	6.49	A6L	17-17-17	"	800/240		2080E
00 30W	+26° 48'		6.72	K2	17-17-17	"	400/200	WARREN: PLEASE CUT	2080E
01 29E	+14° 50'		8.10	BIII	17-17-17	"	800/200	SOME MORE PLATES	2080E
01 34E	+32° 37'		6.86	K0III	17-17-17	40 Sp. Bc	400/200	I ONLY GOT 1/2 BOX LEFT	2080E
					7-2 no fields			clouds	2080E

TAP

B Feb 11

Observer Hu-Li / Huc-Ri

Julian Day

[illegible]

Dome Temp. 08°F 71%

Transparency Conditions excellent

GG

Focus

Dome Temp. 05°F 71%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 ^h 17 ^m W	+40°06'	2"	8.40	K2II	12-17-17	Hd Vis Bin	800/254		fine
01 ^h 08 ^m W	+24°07'	2	5.13	SKW	13-13-13	G-1 skwp	200/60		fine
00 ^h 02 ^m E	+11°05'	2	5.98	K2II	13-13-13	Hd Sp Bin	400/200		fine
03 ^h 33 ^m E	+27°34'	1-2"	6.59	AD	13-13-13	"	400/150		fine
00 ^h 32 ^m E	-10°35'	2"	6.38	B3	13-13-13	"	400/100		fine
00 ^h 44 ^m E	+71°45'	2"	7.52	AD	13-13-13	"	400/100		fine
					180 sec,			Des 9mm @ 68°F MWP#2	
01 ^h 50 ^m E	+27°32'		6.59	AD	13-13-13	"	400/150		fine
					7-7 m filter				

TAP

1973

→ Baked Feb 11
→ Baked Feb 13

Date Thurs Feb 13-14, 1972 Observer H.S. Ri/Ri Julian Day 715.720

[illegible]

B Feb 13

Date Fri-Sat 16-17

Observer Wi-Ri/Ri

Julian Day

[illegible]

70

[illegible]

15-2

Date Feb 17/18 1973 Observer HS-HMS-WATERLOO Julian Day

[illegible]

Dome Temp.

72

TAP

Dome Temp.

Transparency Conditions Cloudy

74

[illegible]

TAPD

Date..... Observer..... Julian Day.....

[illegible]

Dome Temp. —

Hour Angle
End

Dome Temp.

Transparency Conditions

76

[illegible]

Date..... Observer..... Julian Day.....

Hour	Angle
End	

Dome Temp. 180°F 88%

Focus

Dome Temp. 180°F 91%

Transparency Conditions

78

ing Time
E.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

down to 88%

drunk over
closed up at 00:30

TAP

B Feb 13

Date Feb 22-23 1993 Thu Fri Observer R. Sy / Sy R. Julian Day

[illegible]

Dome Temp. *180R 79%*

Transparency Conditions *hazy with cumulus clouds*

80

Focus

Dome Temp. *110°F 82% outside 95%*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00h30m	+24° 06'	4	5.13	B8	13-13-13	G1, hel	200/100	plates in box	fine
	Dev 9min @ 68°F MWP2 180 sec.							digressed to large	
04h35m	+17° 01'		6.0		2-2	8y prog.	200/200	for box	fine
					180 sec.			Dev 9min @ 68°F MWP2	
01h55m	+42° 40'		5.6	B	2 2	"	200/300		fine
01h05m	-18° 20'		4.6	B	2-2	"	200/250		fine

TAP

* baked Feb 13
** baked Feb 17

** baked Feb 17

Date Feb 24 25 1973 SAT/SUN Observer GI-LR/II-LR Julian Day 172

[illegible]

Dome Temp. 83°F.....

82

TAPC

Dome Temp. 100°F

68%

Transparency Conditions

hazy

84.

Focus

Dome Temp. -02°K

65%

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

12:40

A

02-05W

-240 07

10"

5.13

B8

13-13-13

G1 Shell

200/90

fin

12:40

B

02-05W

+110 05

10"

5.98

K2

13-13-13

Hd Sp Bin

400/200

fin

12:40

C

02-07W

+20 17

5"

4.04

B7

13-13-13

Bl Sp Bin

80/25

fin

12:40

D

00-01W

4"

6.59

A0

13-13-13

Hd Sp Bin

400/50

fin

12:40

E

00-08W

-120 51

4"

4.51

B8

13-13-13

Bl Sp Bin

80/25

fin

Dev 9min @ 68°F MW2 #2

TAP

45.

group from Mr. Master B Feb 17
 University about 30 looked at Saturn

Date Feb 27-28 1973 Tues/Wed Observer Hu-Ri/Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36900	HD 23862	03 43.3	23 51	G12	IIaOB	13/17	16°F	18:42	19:17	A	01° 41' W
36901	HD 11291	01 45.8	50 18	"	"	13/13		19:22	19:34	B	02° 54' W
36902	HD 35189	05 17.9	+16 36	"	"	11/4		19:39	20:01	A	03° 54' W
36903	HD 37171	05 31.5	+10 58	"	"	13/4		20:03	21:05	B	04° 43' W
36904	HD 53755	07 01.1	-10 30	"	"	13/4		21:23	22:12	A	01° 25' W
36904T1	at stop wedge for plates 36900-				IIaOB						03° 54' W
36905	HD 63887	07 46.1	+71 57	"	"	13/4		22:20	23:29	B	01° 47' W
36906	HD 104451	11 56.6	+30 06	"	"	13/13		23:37	00:07	A	01° 43' E
36906F1	focus test	out of focus		G-12	IIaO	13	16°F			B	
36907	HD 97937	11 10.7	+13° 23	G-12	IIaOB	13/15		01:45	02:33	A	11° 23' W
36908	HD 99946	" 24.8	+30 32	G-12	IIaOB	13/15		02:42	03:53	B	02° 40' W
36909	HD 137569	15 21.7	+15° 03	G-12	IIaOB	13/13		04:00	05:14	A	00° 03' W
36910	HD 141458	15 44.1	+13° 01	G-12	IIaOB	13/15		05:18	05:44	B	00° 15' W
								20 End			

Dome Temp. 8°F @ 71%

Transparency Conditions hazy

86

Focus

Dome Temp. 8°F @ 75%

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:17	A	01°41W	+24°06'	3"	5.13	B8	13-13-13	G1 Shell	200/90		fine
9:34	S	03°56W	+50°44'	3"	5.62	B9II	13-13-13	H Sp Bin	400/100		fine
10:01		00°45W	+16°45'	3"	6.09	A2I	13-13-13	"	400/100		fine
10:58	B	01°43W	+11°05'	3"	5.98	K2II	13-13-13	"	400/150		fine
11:02	L	01°20W	-10°35'	4"	6.88	B3	13-13-13	"	400/100		fine
		03°26W					180 sec.			Dev 9min @ 65°F MWP2	
11:29	E	01°47W	+71°49'	3"	7.52	A0	13-13-13	"	400/100		fine
11:57	A	01°40E			8.7	gF3	13-26	Bln Sp Bin	800/26	clouds at 23:50	weak
	3						7-7 no filter				
12:13	A	01°32W	+13°03'		6.47	A6-	13/13	no filter	400/120	clear up	fine
12:18	S	02°40W	+30°10'		6.84- 7.29	F0 F2	13-13-13	"	400/160		fine
12:54	I	00°03W	+14°50'	3	8.10	B5II	13/13-13	"	800/170	dark coming up to the N.W. slowly	fine
1:18	B	00°15W	+12°50'		6.8	A0	13/13-13	"	400/92	(overdeveloping) coming up	fine
										clouded in at 05:45	
										Warren overdevelops	
										plate # 36910 and 36906	

* balced Feb 17
* * boked Feb 28

Date 28 Feb / 1 March '73 Wed / Thurs Ob

Observer Blu-Ri

Julian Day.

[illegible]

Date 4/5 March Sun-Mon 1973 Observer GI-Sy Julian Day 173

[illegible]

Dome Temp. 71°/64 25°F

Focus

Dome Temp.

Transparency Conditions *gradually increasing cloud*

20

[illegible]

* baked

Don't Temp. —

Focus

Dome Temp.

Hour Angle
End

47.11

C2
3.07 W

225 N.

244N -

4 4ZW

92

Transparency Conditions *Good - some here*.....

Dome Temp. 30 907.

[illegible]

a3

Baked Feb 28

Date march 19/20 Mon-Tues Observer Hu-Tu/Tu-Sy Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36921	HD 21364	03 21.8	09 23	G12	HaOB	9/5		19:29	19:39	A	3 45W+
36922	HD 23862	03 43.3	23 51	"	"	13/7	30°	19:43	20:35	B	4 20W
36923	40 Hya	10 00.3	-12 35	"	"	9/5		20:48	21:21	A	1 10E-
36923TI	Cal step wedge		180 sec		"						
	1 Hya							21:30	24:00		
36924	¹⁹⁵⁰ 2 Crv	12 18.0	-21 56 ¹⁹⁵⁰	G16	DaF	13/13	29°	00:48	02:08	A	1 22W-2
36925	OPh	16 24.1 ⁵⁰	-18 21 ⁵⁰	"	"	13/14		02:14	03:16	C	1 35E-
36926	"	"	"	"	"	"		03:19	04:08	A	0 44E
36927	"	"	"	"	"	"		04:14	05:25	B	0 32W
36928	"	"	"	G12	DaO ^b	"		05:31	05:43	A	0 51W
36928TI	Cal step wedge		For 36924-27		DaF						Des
36928FI	Focus			G12	in air, tested			no filter		B	
26928T2	Cal step		For 36924-27		DaF	6 min					

94

[illegible]

Baked Mar 20

Date Mar 20-21 Tues-Wed Observer Ali-Taj/Sy-Taj Julian Day

[illegible]

Dome Temp. 19°F 70%

Focus

Dome Temp. 130 8070

Transparency Conditions excellent - Cloud From East
by 21^h

96

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03 25W	+09°41'	2"4"	3.66	B8p	40	Blu-SpBin	40/14		fine
03 57W	24 09	"	5.13	B8	2-2	G-I Shell	200/200	no filter * just background flg	
1 55W	71.48	2"3"	7.52	A0	13-13-13	Hd Sp Bin	800/200	cloud	fine
2 10W	+10 01	3"5"	6.58	A0	13-13-13	"	800/220		fine
								* Dev 12min MWP#2 @68°F	
								Dev 9min MWP2 @68°F	
0 58W	-12 51	3"6"	4.51	B8V	13-26	Blu Sp Bin	200/65		fine
0 12E	-21 59	"	5.2	B	2-	Be prog	200/14"	cloud again *	logged
0 13E	-18 19	2"5"	4.8	"	2-2	"	200/300	completely faded - wm	
0 48W	"	"	"	"	2-2	"	200/185	* Overdevelop please - Th	logged
Note: All overdeveloped that plates have very high background by level. An they usable? wm							Each should have 200/400 counts (These found at right side of box) ie opposite side of arrow point		

TAPC

6. Mar 20

Dome Temp.

Focus 7

Dome Temp.

Hour Angle
End

5243801

04-42-21-

0.125

250

52 17W-

2571

01.15.

52

1000000

2011

Dome Temp. 24°F 74%

Focus 75 R

Dome Temp. 21°F 90%

Transparency Conditions *excellent*

98

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:20	A	03 ^h 38 ^m W	+09°44'	4"	3.66	B8p	2 nd filter	Bin-Sp Bin	40/14		high by level
1:50	B	04 ^h 47 ^m W	+24°10'	2	5.13	B8	2-2 nd filter	G1 Hsoll	200/500	} right hand side of By #1	fin
							180 sec.	Der 9 min MWAD	668°F		
2:00	A	02 ^h 17 ^m W	42026	1-2	6.61	A0p	13-13	G1 Ap	400/140		fin
2:00	B	03 ^h 25 ^m W	+37°16'	1-2"	2.58	B.5p	40	N2 Ap	40/12		fin
2:10	A	02 17W	+29 43	1-2"	8.7	qF3	13-13-13	Bin Sp Bin	800/200		fin
2:10		00 ^h 47E	+12°53'	"	6.80	A0	13-13-13	"	400/130		fin
							180 sec.			no #41 Der MWAD 9 min @ 668°F	
2:50	A	01 06E	+32°40'		6.26	K0TH	13-13-13	Kid-Sp Bin	400/150		fin
3:10	B	00 18E	+75°30'	3-4"	6.89	F0	13-13-13	"	400/130		fin
3:15		00 ^h 02W	+77°44'		6.66	A0	13-13-13	"	400/100		fin
3:24	B	02 ^h 20W	-15°50'		2.74	A _m	20-20	Bin Sp Bin	40/13		fin
							7-7	→ filter			fin

TAPC

13. Mar 20

Date Fri-Sat Mar 23-24, 1973

Observer W. R. / B. R. Julian Day 100

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36947	HD 28363	4 ^h 23 ^m .3	+15° 57'	G-12	IIaOB	9/.3	38°F	19:10	19:45	A	03° 05' 00"
36948	HD 30869	04 46.2	+13° 29'	G-12	IIaOB	9/.3		19:48	20:19	B	03° 15' 00"
36949	E Per HD 24760	3 ^h 51 ^m 08 ^s	+39° 43'	G-12	"	9/.5		20:25	20:29	A	04° 00' 00"
36950	E Per HD 24912	3 ^h 52 ^m 28 ^s	+35° 30'	G-12		13/.7		20:34	20:41	B	04° 00' 00"
36951	HD 104451	11 ^h 56 ^m .6	+30° 06'	G-12		13/.3		20:49	23:11	A	04° 00' 00"
	Fornix Spectrometer							23:15	00:00		
36952	HD 137569	15 21.7	+15° 03'	G-12	IIaOB	13/.3		02:18	03:07	A	00° 21' 00"
36952T1	cal step wedge on plate 36947				IIaOB						
36953	Cyg X-1 HD 226868	19 54.6	+34° 56'	G-12	IIaOB	20/.3		03:15	04:27	B	02° 40' 00"
								End 17			Shoof

Dome Temp. 25° 75%

100

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:45	A	03 ^h 05 ^m W	+16°12'	2"	7.14	F8	13-13-13	Bln-Sp Bin	400/100		fine
20:19	B	03 ^h 15 ^m W	+13°42'		6.77	F5	13-13-13	"	400/		fine
20:29	A	04 ^h 21 ^m W	+40°00'		2.88	B0.5I	20-20	"	400/14		fine
20:41	B	04 ^h 31 ^m W	+35°48'		4.03	O7	13-13-13	"	400/20		fine
23:11	A	01 ^h 00 ^m E	+29°45'	4"	8.7	gF3	13-13-13	"	800/175		fine
00:30											
											fine
03:02		00 28 E	+14°53'		8.10	B5III	13-13-13	B/A-Sp Bin	800/170		fine
							180 sec.			Dev MW2 9mi @ 68°	
07:07	B	02 40 E	+35°12'		9.74	B0Ib	13-13-13	"	800/154	<u>Please Over-develop</u>	fine
		↑ should be 3 ^h 40 E.									

Date Mo Mar 26 1972 Observer Aln-Ri Julian Day 19720326

[illegible]

Dome Temp.

Dome Temp. 31°F 69%

Focus

Dome Temp.

Transparency Conditions

102.

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

TAPC

13 Mar 23

Dome Temp.

[illegible]

Dome Temp. 32°F 55%

Focus 75-R

Dome Temp. 22°F 56%

Transparency Conditions good

104

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
045	L	04 ^h 19 ^m W	+09°44'	3"-4"	3.66	B8p	20-20	Bl-Sp Bin.	40/14		Fin
008	3	04 ^h 20 ^m W	+24°10'	"	5.13	B8	13-13-13	G1 shell	200/90		Fin
019	A	03 ^h 45 ^m W	+11°05'	"	5.98	K2II	13-13-13	Hd Sp Bin	400/150		Fin
009	B	03 ^h 05 ^m W	-10°34'	"	6.38	B3	13-13-13	"	400/90	telescope near platform	Fin
025		02 ^h 55 ^m W	+9°57'		6.58	A0	13-13-13	"	400/100	tried HD 63887, could not get it fld drawn	Fin
							180 sec			Dev MWP2 9min @ 68°F	
046	B	01 ^h 42 ^m W	-12°55'	4	4.51	B8V	13-13-13	Bl-Sp Bin.	40/14		Fin
044		01 ^h 25 ^m W	-22°01'	4"-10"	5.3	B	2-2 ^{no filter}	Sy	200/200	6 exposed Box #1	Fin
035	B	01 ^h 10 ^m E	-18 19	10.4"	4.6	B	2-2	"	200/250	Warren, will you please	Fin
040	A	02 ^h 15 ^m E	"	"	"	"	2	"	200/270	develop the IAF plates	Fin
		Dev 6min MWP2 @ 68					6min			in MWP2 for 6 ^{min} at 68°F	Fin
047		00 ^h 28 ^m W	-18°19'	6"	4.6	B	2-2	Sy	200/250	Sanyal	Fin
05:33		01 ^h 05 ^m W	-18°19'	"	"	"	2-2		200/250		Fin

Dome Temp. 28°C

57%

Transparency Conditions good

106

Focus

Dome Temp. 24°F

64%

Ending Time
E.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

TAP

Dome Temp. ... 26° H = 747 62

Focus Changed From 75 $\rightarrow$ 88 id

Dome Temp.

Transparency Conditions Clear, then cloud soon after

[illegible]

* baked Mar 23

Observer Sy-Tn/

Julian Day

[illegible]

Dome Temp. 32° $H = 667$

Transparency Conditions

Clear the cloud etc

[illegible]

Sun - Mon

Dome Temp. 2

Focus

Dome Temp.

[illegible]

Dome Temp. *19° H=657*

Transparency Conditions Progressive Hazards cloud 112

[illegible]

Booked Mar 31

Tues-Wed

Date 1973 APR 10-11

Observer.....T. 4

Julian Day

[illegible]

Dome Temp. 17 78 1/6

Focus

Dome Temp. 15.....

Transparency Conditions Clear by 2nd

very gusty

114

[illegible]

115

[illegible]

Dome Temp. 20.1 85%

115

APPLE

Date Thurs Fri April 12-13 1973 Observer Sy-Ri/Hu-Ri Julian Day _____

[illegible]

Dome Temp. 21°F 54%

Focus 61 (Rd)

Dome Temp. 18°F 61%

Transparency Conditions *Clouds all over*

118

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
04:48	4	04 ¹⁵ 5W	+10° 00'		3.4	0	no filter 2-2	Sy Prog	200/275		Fin
04:48	8	04 54W	+20° 12'		4.6	B	2-2	"	200/250	exposed Box #1	Fin
05:00	A	00 50W	-22° 00'		5.3	B	2-2	"	200/164		Perf
							6 min			Dev 6 min MWPA @ 68°F	
05:01		00 28E	+15° 50'	2"	8.10	BST III	13-13-13	Blk Sp Bin	800/178		Fin
05:01		00 20W	+12° 52'	2"	6.80	AO	13-13-13	"	400/200	exposed Box #3	Fin
05:01		00 426W	+32° 39'	2"	6.26	KOTD	17-17-17	Hd Sp Bin	400/200		Fin
							180 sec			Dev MWPA 9 min @ 68°F	
							180 sec			" " " "	
05:01		01 15W	+75° 28'	3"	6.84	FO	17-17-17	Hd Sp Bin	400/150		Fin
							7-7 no filter			Centre Lined by 6 min	Cal Z r
							5.5 no filter			Reset from 6 min to 47 min	OK

B April 13

Date Fri Sat April 13-14 1973 Observer H₂S-R_i/Bl-R_i Julian Day.

[illegible]

Focus
Dome Temp. ... 180°F ... 65%

First part of 10 min of 36992 is taken in corona. Strong aurora continued all night. Wow!

120

[illegible]

Dome Temp. 29°F 70%

Transparency Conditions good some haze

122

Focus

Dome Temp. 25°F 66%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 ^h 10E	+12°52'	1-2"	6.80	A0	3-13-13	Sp BW - B/L	400/130	Possible Eclipse!	Pin
03 ^h 15W	+29°45'	2	8.7	gF3	13-13-13	"	800/170		Pin
01 ^h 54E	+18°25'	3-4	6.63	07III	13-13-13	"	400/130		Pin
					180 sec.			Dev. MW2 9min @ 68°F	
03 ^h 05E	+36°00'	2	6.29	De	13-13-13	"	400/130		Pin
02 ^h 20E	+35°45'	2	7.60	WN4.5 07.5L	13-13-13	"	800/180	field drawn WRONG STAR	Pin
02 ^h 22W	+12°50'	2	6.80	A0	13-13-13	"	400/95	Overdevelop slightly	Pin

B April 13

Dome Temp. _____
Focus 616
Dome Temp. _____

Hour Angle
End

Dome Temp. 34° F

58° %

Transparency Conditions Fair - Bar - Asful

124

Focus 61 (2d)

Dome Temp. 30° F H=66%

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:51	A	01° 25W	+28° 10'	5	2.15	K III	20-20	8d Vel.	40/16		Fin
45	B	04° 57E	+29° 45'	2-4	8.7	gF8	13-13-13	Sp. Bui - Blk	800/170		Fin
3:20	A	03° 09E	+12° 50'	3-5	6.8	A0	13-13-13	"	900/130	thick cirrus clouds ok after 23:00	Fin
3:25	A	01° 40E	+14° 50'	2-3	8.1	B5 III	13-13-13	"	800/170		Fin
4:06	A	04° 40E	+35° 45'		7.60	W04.5 09.5 I	13-13-13	"	800/200		Fin
							180 sec.			Dev MWP2 9min @ 68°	
			+12° 50'		6.8	A0	13	"	400/	Clouds, Clouds, Clouds!	

* Baked April 13
re April 15

Date Tues-Wed Apr 17-18 1973 Observer Hu-Ri/Hns Bl Julian Day 2443883

[illegible]

Dome Temp. 3.5°F @ 78%

scattered cirrus clouds until 21:30

126

[illegible]

127

Observer... *B/n-Tn*

Julian Day

[illegible]

Dome Temp. 46° H: 58%

Transparency Conditions hazy & cloudy.....

Good at dawn but scattered
(sometimes heavy) clouds all night

128

[illegible]

Date April 22/23 1973 Observer Ahern, Pickett
Thompson Julian Day

Thompson

Date April 22/23 1973

Observer

Julian Day

[illegible]

- 75%

Fair - some cloud at beginning
of night
Thick cloud ~ 2:30 a.m.

Ba

[illegible]

Baked Apr 15/73

Date April 24/25 Tues-Wed Observer Hu-Tn/Ph-Ta Julian Day

[illegible]

Dome Temp. 26° H: 867

Transparency Conditions Excellent - light clouds
last two hours

132

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:56	B	00 05W	+23 57	2-3	3.76	G0II	40	Std. Vel.	40/15		Fine
10:28	C	01 52W	+09 57	"	6.58	A0	B-13-13	Sp Bin - Hd	400/100		Fine
11:26	A	01 52W	+44 57	"	7.12	A5	13-26	"	400/110	Fld drawn ?	guiding
11:58	K	01 57E	+58 44	"	6.36	A0	13-13-B	"	400/110	Looks nebulous ???	Fine
12:15	S	03 27E	+36 45	3-4	5.1	B7K	B-26	"	400/100	Brighter of two	Fine
00:07	K	01 23E	+14 50	"	8.1	B5III	B-13-13	Sp Bin - Bln	800/225		Fine
00:44	C	02 12E	+32 38	"	6.26	K0III	B-13-13	Hd Sp Bin	800/250		Fine
01:20	A	01 42E	+35 11	"	9.74	B0I6	13-13-13	Sp. Bin - Bln	800/200		guiding
										Pro MWP2 9mi @ 60°F	
04:34	C	02 17E	+36 23		4.12	B5V	20-20	Sp. Bin - Bln	400/200		Fine
										* Warren - more plates needed now & put in oven 1st thing!	

* bated 7 hrs APR 25

Dome Temp. 38
Focus
Dome Temp. 38

[illegible]

Dome Temp. 39° H=46%Transparency Conditions *ci clouds*

134

Focus

Dome Temp. 32° H=71%

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:32		W 2 ^h 00	+ 9 58	2"	6.58	A0	13-13-13	Hd 513	400/100		guiding
21:13	A	01 45 W	44 57	1.2"	7.12	A5	13-13-13	"	400/115	fld check with 37020	guiding
21:25	C	02 16 E	+58 41	1"	6.36	A0	13-20?	"	400/120		guiding
										Deo MWP2 9min @ 68°F	
22:40		01 38 W	+29 44	1.2"	8.7	gF3	13-13-13	Sp Bin-B1/2	800/230	Fld drawn	fine
23:51	B	01 48 E	+36 46	2"-4"	5.1	B7V	13-13-13	Sp Bin-Hd	200/55		fine
01:30	A	1 55 W	+69 58	"	3.8	"	2-2	Be-prog G16	200/277		fine
01:51	A	2 16 W	"	"	"	"	2-2	"	200/291	cloud	fine
03:20	A0	25 W	+75 29	1.2"	6.84	F0	13-13-13	Sp Bin-Hd	800/240		fine
										Deo MWP2 9min @ 68°F	
04:14	P	01 05 W	77 43	2"	6.66	A0	13-13-13	Sp Bin-Hd	800/205		sl lower
04:27	C	02 20 E	+36 26	2"-4"	4.42	B5V	21-21	Sp Bin-B1/2	200/110	cloud	sl lower
			in in/out out				7/7	no fi/Hdr			fine

Date Sun-Mon Apr 29-30 Observer Abb. Tn. Prt Julian Day.....

[illegible]

Dome Temp.

Transparency Conditions *Excellent*

Cloud by 2 AM

136

[illegible]

B May 4

Dome Temp.

Focus

Dome Temp

Hour Angle
End

0155E

02 506

0.35

2151

741.1

4113-10

1917

10

Dome Temp. 40°F 61%

Transparency Conditions

138

Focus

Dome Temp. 34°F 77%

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:4	G	01°30 E	-15° 55'	5-6	2.74	Am	20-20	Bl-Sp Bi	40/22		guiding
00:13	B	02°50W	+29° 44'	4	8.7	gF3	13-13-13	"	800/170		fine
00:37	A	00°35W	+12° 50'	4	6.70	A0	13-13-13	"	400/90		fine
01:43	B	01°54 E	-18° 25'	8-10	6.63	07 III	13-13-13	"	40/130		guiding
01:52	A	01°40W	-15° 53'		2.74	Am	20-20	"	40/21		fine
							180 sec			Dev. HWP 2 9min @ 68°F	
01:50	B	01 50 E	+37 14'	3-4	9.58	04 I 11 08.97	13-13-13	"	80/200	long exp.	
04:0	A	00°25W	+42° 10'		5.51	B6 II	13-13-13	"	80/30	Broken 3 pieces	sl. heavy
04:11	B	01°56 E	+36° 23'		4.42	B5 V	20-20		40/20		sl. heavy
	B						7-7	no filter			fine

39

Date May 6-7 Sun-Mon Observer Abu-T₂-Prt Julian Day _____

[illegible]

Dome Temp. .

Focus www.wiley.com/go/focus

Dome Temp.

How Angle
End

[illegible]

Date 1973 MAY 11 Friday Observer Bln / Tn Julian Day 1

[illegible]

Dome Temp.

Transparency Conditions *semi clear for 1 hr* 142

[illegible]

Date May 15-16 Observer Ahn-Tn Julian Day 174

[illegible]

Dome Temp. 40° H = 74%

Focus

Dome Temp.

Transparency Conditions Some cloudy periods 144

[illegible]

Date May 16-17/73 ^{Wed-Thurs} Observer Tn: Julian Day

[illegible]

Dome Temp. 27° H 9277

Transparency Conditions Cloud soon after opening (from SW,

[illegible]

* baked May 4

Dome Temp. 38

Focus

Dome Temp. 58

[illegible]

Dome Temp. 30° 4: 77° 20

Transparency Conditions ^{Fair} ~~very good~~, then cloud from North ¹⁴⁸
reopened at 1 AM partially clear

[illegible]

* baked May 19

Date Sat-Sun May 19/20/73 Observer Ty-B/h Julian Day.....

[illegible]

Dome Temp. 39° H = 667.

150

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
10:36		2 40E	-15 53	3-4	2.89	A3IV	15-15-15	SpBin-B14	40/30		fine
12:01	C	1 33W	+29 44	2.1"	8.7	gF3	15-15-15	"	800/170		fine
12:49	H	1 03E	+14 49	1-2"	8.10	135III	15-15-15	"	800/180		fine
										Don't know what 068°F	
12:51	C	0 17E	-15 54	2"	2.89	A3IV	15-15-15	"	40/30		fine
1:04	H	2 00E	-18 23	2-6"	6.63	07II	15-15-15	"	400/130	moonlight? some cloud	sl. wk.
1:55		0 138W	-15 54	2-3"	2.89	A3IV	15-15-15	"	40/30		fine
12:51	C	0 151E	+37 16	1-2"	9.58	04IF +08-9Iw	15-15-15	"	900/200		quadrant
1:40		0 049E	+35 59	"	6.69	0e	15-15-15	"	400/110		quadrant
04:03		0 025E	+35 59	"	6.29	0e	15-15-15	"	400/80		fine

* baked May 19
** baked 7th Apr 26

Dome Temp. _____
Focus _____
Dome Temp. _____

[illegible]

Dome Temp. 54° $H=5370$

Focus

Dome Temp. 41° $H=7170$

Transparency Conditions 152
Good but hazy, then cloud from N,
breezy

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:41	A	2 28 E	-15 53	3-4'	2.89	A3 IV	20-20	sp Bin-B/n	40/30		fine
23:07	B	2 47 W	+29 43	2-3'	8.7	g f3	15-15-15	"	800/170	cloud	fine
										Dew 9 min MWP2 @ 68°F	
01:02	A	00 18 W	+14 48	3-4	8.1	B3 III	15-15	sp Bin-B/n	800/170		fine
2:32	C	02 04 E	+37 14	2-3"	9.58	04 IF +08.9 I	15-15-15	"	800/200	1.8	fine
3:13	F	01 11 E	+35 44	3-4	7.60	WN 4.5 +09.5 I	15-15-15	"	800/320	$\frac{.9}{2.7}$	sl streak
4:04	C	00 17 E	+35 58	"	6.29	0c	15-15-15	"	400/200		sl streak
			in in/out/out				7/7	no filter			

* barked May 19
 *** barked May 22

Dome Temp. _____
Focus _____
Dome Temp. _____

[illegible]

Dome Temp. 53° H = 46%

Focus

Dome Temp. 46° H 60%Transparency Conditions 154
Excellent - cloud from SW
by 23 hr

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:28	A	01 40W	+9 26	2"	3.71	B116	18-36	bin Search	40/20		sl strong
02:00	B	01 44W	+29 42	"	8.7	gF3	15-15-15	Sp bin Blr	800/170	ED +30 2212?	sl strong
										Dev MW22 9min @ 68°F	
02:15	C	04 00E	+02 58'	"	4.0	B5 I	15-15-15	bin Search	200/65		fine
	A				5.54	09.5 III		"	400/	capped at 19 counts, 2230 clouds. scrapped	
										Dev 9min MW20 @ 68°F	
00:09	B	03 58 E	+46 58	"	5.54	09.5 III	18-18-18	"	200/100	scattered clouds	fine
01:42	C	02 51 E	+37 41'	"	9.17	B0.7 IV	15-15-15	"	800/170		fine
02:04	B	01 30 E	+38 40'	"	9.15	09.7 Iab	15-15-15	"	800/115	low level clouds please (at far right in box)	
										Dev 12 min @ 68°F MW22	

Dome Temp. *46°F 70%*

Transparency Conditions *clear with cloudy intervals*

156

Focus

Dome Temp. *43°F 73%*

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

clear

* baked recently (June 1)

Date Sat-Sun June 2-3/73Observer LR/Tn.....

Julian Day

Dome Temp.
Focus
Dome Temp.
Hour Angle
End

12th

0208E

0117E

0149E

200

Dome Temp. 42° H=727

Transparency Conditions Hazy, some cloud

158

Leading Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
230	A	03 ^h 53 ^m E	+46 59	2"-4"	5.54	095 III	15-15-15	bin Search	200/65		guiding
141	B	0208 E	+37 42	"	9.17	80.7 IV _p	15-15-15	"	200/160	Dec 9 min MWP2 @ 68°F	fine
2'06	A	0117 E	+46 39	"	5.54	095 III	15-15-15	"	200/65		sl. strong
2:53	B	0140 E	+33° 18'	"	7.52	095 IV _p	15-15-15	"	400/111		fine
2341	A	0007 W	+35 59	2	6.29	0e	15-15-15	sp Bin-Bln	400/114	ie North of pr is brightest?	guiding
										Note - Please take a focus plate ASAP W.M.	

* baked June 1

Observer Blu-Tu

Julian Day.

[illegible]

Dome Temp.

1.60

[illegible]

* baked June 1

Dome Temp. ...

Focus

Dome Temp.

Hour Angle
End

0 33 E

Dome Temp.

Transparency Conditions Have a thin cloud

162

[illegible]

Many Visitors

Date June 9-10 Sat-Sun / 73 Observer In - Wat Julian Day

[illegible]

Focus

Dome Temp. $+49^{\circ}$ H = 80%

Transparency Conditions *Excellent*

0:40 Satellite - from S $\rightarrow$ N

Saw Skyla at 2:55 with companion ??

[illegible]

* baked June 1

Dome Temp.

Focus

Dome Temp.

[illegible]

Dome Temp. 69° H = 74

Focus

Dome Temp. 65° H = 806

Transparency Conditions

Hazy Lazy + Cloudy
but clearing around 0h

166

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03:50	A	01 30W	+14 47	1.2"	8.1	B5 III	15-15-15	Sp. Bin - Bl	800/170		Li
										Dev 9 min MWT 2 @ 68°F	
02:50	B	00 07E	+35 06	2.3	9.74	B0 I6	15-15-15	Sp. Bin - Bl	800/258	Cyg X-1	Li
03:19	C	00 34W	+35 41	3-4	7.60	WN 4.5 09.5 Ia	15-15-15	Sp. Bin - Bl	400/180	2pc 3 in off	Fine
03:47	A	00 01W	+36 21	'	4.42	B5 V	23-22	Sp. Bin - Bl	40/24		sl. strong
	B		in in/out out				6/6	10 f. 1/10	Centre to red	20 microns	

Date June 11-12 Mon-Tues Observer Abn-Ja Julian Day 172

[illegible]

Dome Temp. 78° H=60%

Focus

Dome Temp. 75° H=88%

Transparency Conditions Progressive haze 108
& cloud

Ending Time
E.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

01:30

Date June 12-13 Tues-Wed Observer Tn Julian Day 1 59 13 min

(Clock was slow
by 13 min)

[illegible]

was slow
13 min

Dome Temp. 56 H = 65%

Transparency Conditions Clearing but scattered cloud
by 2 AM ¹⁷⁰

Skylab again thru Cas at 2'20

[illegible]

Date 13-14 June 1973

Observer ALN-Prt-Ri

..Julian Day

[illegible]

Dome Temp. 54°F.....

36229

Transparency Conditions

excellent

179

Focus

Dome Temp. 48°F

[illegible]

Date June 14-15 1973 Thu Fri Observer Ahn-Ri Julian Day 2444110.5

[illegible]

Dome Temp. 53° F 56%

Focus

Dome Temp. 50%

Transparency Conditions *good with the odd clouds*

174

[illegible]

13 June 1

Dome Temp. .
Focus47
Dome Temp.

Hour Angle End	Hour Angle Begin	Altitude	Declination	Time	Observer	Remarks
0°34E						
0°440W						
00°03W						

Dome Temp. 43°F 77%

Transparency Conditions Fair - Good Sctd. v. 176
cloud at end 176 clouds

[illegible]

Date JUNE 16-17 1973 Observer FRW-Ri Julian Day 2443880.5

[illegible]

Dome Temp. 44°F 79%

178

[illegible]

Date June 21-22 Thurs - Fri / 73 Observer Ahn-Tn Julian Day

[illegible]

Dome Temp. ... $6.8^{\circ} F$... H = 5570

Focus

Dome Temp.

Transparency Conditions Hazy & some cloud

180

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21:50										UFO ?? 21:45	
			cloud							faint elliptical image moving about 90° from zenith to west	
								Just for fun		A 1/2 moon diameter	
			put in box with plates					37088-T1, F1		Lasted 2-3 sec	nothing showed
										Like searchlight on low cloud but seen in cloud & very clear sky.	up on the plate!
										- Later noticed bright searchlight from T.O. that could be source in right conditions	

181

4 baked June 16

Date 1973 JUNE 22/23 FRI/SAT Observer McU-Tn Julian Day

[illegible]

Dome Temp. 60°F H=69%

Transparency Conditions Excellent. then cloud by 224

Focus

Dome Temp. 58° H=86%

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:57	A	0 04E	-15 50	2-3	2.39	Am	15-15-15	Bm-Spec. Bin	40/35		Line
23:09	B	01 30W	+14 52	"	8.1	B5III	15-15-15	"	400/85	cloud then clear	Line
										Dev 9mm MWD2 - 60°F	
22:32	C	0 57E	+58 49	3-4	4.93	A1V	15-15-15	"	200/75	cloud	Line
22:54	A	0 33E	+42 "	"	5.51	B6V?	15-15-15	"	200/65		Line
20:2	C	1 23E	+35 46	"	7.60	WN4.5 +09.524	15-15-15	"	400/83	dense cloud - closed dark flap at 0052 (11 224)*	Guiding
								Dev. MWD2 12 min		@ 68°F	
	B						7/7	no filter		* over develop	
										please	
										both at for right	

* baked June 16

Dome Temp. —

Focus

Dome Temp.

[illegible]

Dome Temp. 58°F H=6770

Transparency Conditions 184
Excellent - but passing cloud

Focus

Dome Temp. 53° H=877.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:35			std							cloud by 23 hr	
2-	A						15-30	for fun	400/40		
3:29	C	01:38E	+24 27	2'-3"	7.54	F5	15-15-15	Accident	200/70	F/d	Wrong
								Dev MWP2 9min @	68°F		fine
		min/out out					7/7	no fill/g			

Date 1973 June 25-26 Mon-Tues Observer McH-Tn Julian Day 2433.5

[illegible]

186

Timing Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20 58	A	00 08W	-15 50	3-4	2.89	Am	15-15-15	Sp Bin-Rh	40/35	cleaned slit jaws after exposure	fine
3 32	B	05 31W!	+29 47	5"-6"	8.7	F3 III	18-15-7	"	800/210	some fog	fine
	C				6.63	07 III		Sp Bin-Rh		Too wet & fog	
	B		in air / out air				7/7	no filter		WATER RUNNING DOWN DOME, RAINSTORM UNDER SHUTTERS. TUBE BEGINNING TO DAMPEN	
		error - should be 0 03 W									

* baked June 17

Observer...McU-In.

Julian Day

[illegible]

Dome Temp. ... 62°F H=76%

37107
36229

Transparency Conditions ... Good but hazy

188

Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:44	A	0 43W	—	2-3	1.29	K2III	45	std vel	40/23		fine
20:58	B	0 23W	-15 51	"	2.9	Am	22-22	sp Bin - Pl	40/36		fine
22:17	A	1 08W	+14 53	1-2	8.1	B5III	15-15-15	"	400/35		fine
										Dev 9 min MWP2 @ 68°F	
01:13	B	0 28E	+39 48	2"	~10.8	Em	3-3-3	Waterloo Em. Obj.	800/52	Fld drawn	very light
2:57	A	07 03E	+50 19	3'-5'	4.57	A2	15-15-15	Bin Spec. Bin	800/375	some fog, scattered cloud	sl. weak
3:43	C	06 17E	"	"	"	"	no filter 2-2	"	400/175	* overdevelop	very weak
										Dev 6 min MWP2 @ 68°F	
	B		in in / out out				6/6	no filter		* (at far right of box)	

Date 1933 July 1-2 Sun-Mon Observer Pct-Ta-Abs Julian Day 2455111.5

[illegible]

$$H = 907.$$

Transparency Conditions

Excellent - photometric
hazing out

198

[illegible]

* baked June 17

Date 1973 July 3-4 Tues.-Wed. Observer LR-Th

Julian Day

[illegible]

Dome Temp. 71° H=662

Focus

Transparency Conditions *Very good*

192

Dome Temp. 62° H=802*Ex meter funny*

ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:54	A	01 10W		3"-5"	1.29	K2IIp	45	std vel	40/24		fine
01:25	C	03 54E	$47^{\circ}02'$	"	5.54	09.15II	15-15-15	Bin Search	200/58	(broken 2 even pos)	fine
02:05	B	02 46E	$+38^{\circ}52'$	2-3	9.15	09.7IIa	13-13-13	"	800/160		fine
03:23	C	01 58E	$+47^{\circ}02'$	"	5.54	09.57II	13-13-20	"	200/55		fine
										Dew. 9 min MWP2 @ 68F	
01:20	B	00 27E	$+37^{\circ}44'$	3"-4"	9.17	80.7IIp	14-15-13	"	800/155		fine
03:25	C	00 00	$+54^{\circ}24'$	"	9.21	82.5IIb	13-13-13	"	800/160		good
03:31	A	02 20W	$+47^{\circ}02'$	1"-2"	5.54	09.57II	15-15	"	200/55		sl. strong
	B		in in	100 at	7.7			no filter			

Date July 4-5 1973

Observer. Ahn-P.T.

Julian Day

[illegible]

Dome Temp.

excellent transparency, poor seeing.
Humidity cleared quickly

194

[illegible]

* baled 17 June

** new box - baked more recently?

Date July 5-6

Observer.....LR

Julian Day

[illegible]

Dome Temp. 49

Transparency Conditions *V. good*

176

[illegible]

* baked 4 July

Dome Temp. 72°
Focus
Dome Temp. 64°

Dome Temp.	Hour Angle	End
00 52W +		
01 55W +		
01 35W -		
02 09E +		
+ 02 24W +		

Dome Temp. 72°F $H=67\%$

Focus

Dome Temp. 64°F $H=78\%$

Transparency Conditions $\text{Hazy, scattered light cloud}$ 198
 Light-Moderate cloud from 00:30 on.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20 52 A	00 52W	$+2^{\circ} 06'$	2	3.74	A0V	30-30	Exp. Test	40/20	} Warren Note Nancy guiding " "	} Ill + J Prob. Faded Cloud 23:00
21 07 A	01 05W	$+2 06$	2	3.74	A0V	30-30	"	40/40		
21 37 B	01 35W	$+2 06$	2	3.74	A0V	30-30-30	"	40/80		
21 45 C	02 09E	$+35^{\circ} 13'$	1-2	9.74	09.7Iab	17-30	Sp. Bin-Bin	800/95	Cyg X-1 Cloud 23:00 Overdeveloped Maximum	Broken
									+ Overexposed	
23 36 C	02 24W	$+35^{\circ} 13'$	1-3	9.74	09.7Iab	15-15-15	Sp. Bin-Bin	800/258	Cyg X-1 EXP MTR ERRATIC Dew 9mi MWP2 66.8°F	Pin

* baked 4 July

Julian Day

[illegible]

Focus

Transparency Conditions ... Hazy - light cirrus

200

[illegible]

* baked July 4

Julian Day

[illegible]

Dome Temp. 55°F H=92%

Transparency Conditions Strange - Changing very rapidly from opaque to photonic and back

202

[illegible]

* baked July 10

Julian Day

Dome Temp. 3

Focus

Dome Temp. 3

Hour Angle
End

31.4 31

01 28W +

3/ 04/13 -

02 07W *

10⁵ Visitors 1st Half

✓ baked July 19

July 12, primary mirror washed, L.

Date July 14-15 Sat-Sun

Observer... BK-Tm

Julian Day

[illegible]

Dome Temp. 58° H: 7770

Transparency Conditions Clearing but haze
+ thin cloud

206

[illegible]

* baked 10 July

Dome Temp. 6
Focus 35
Dome Temp. 5

Hour Angle
End

Dome Temp. 55°F H=80%

25% of primary mirror covered
all night! Blah!!!

[illegible]

* baked July 10

Dome Temp. -

Focus

Dome Temp.

Hour Angle
End

10 C4F

0.44W

1111

2. 151

11241

4215

10

1

12/24

Dome Temp.

210

[illegible]

* Unfortunate use of LiAF plates
mistakenly baked for 16 hrs

Dome Temp. 6

Focus

Dome Temp. 5

Hour	Angle	End
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100
11	110	110
12	120	120
13	130	130
14	140	140
15	150	150
16	160	160
17	170	170
18	180	180
19	190	190
20	200	200
21	210	210
22	220	220
23	230	230
24	240	240
25	250	250
26	260	260
27	270	270
28	280	280
29	290	290
30	300	300
31	310	310
32	320	320
33	330	330
34	340	340
35	350	350
36	360	360

03h

0745E

0224E

6045.

40.1111

1

0 1 2 3

1

1

1

1

1

F p/2 05
16h13

212

Dome Temp. 69° H: 4790

Transparency Conditions *Thin cloud but very good*

Focus

Dome Temp. 63° H: 5172

Ending Time
EST.

P.R.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03 ^h 05 ^m E	+39 09	~1"	4.3	BSI	end. 50	std. velocity	40/18	RA 19 ^h 13.3	Fin
02 45E	+47 00	~1"	5.54	095 III	15-15	bin. search	200/100		Fin
02 26E	"	"	"	"	20-20-20	"	200/93	weak arc	Fin
00 46E	+37 43	"	9.17	80.7 IV	20-23-23	"	800/235	"	Fin
00 11W	+33° 23	1-3	7.52	09 IV	23-23-23	"	400/185	"	Fin
Dev 9mm @ 68°F MW 2									
01 19W	+54 25	1"	9.21	B 2.5 IV	23-23-23	bin search	800/243		
					6/6	ng filter			

* baked July 18

Dome Temp. 6

Focus

Dome Temp. 6

Hour Angle
End

0.41W

125W

33144

17 2502

Dome Temp. 62° $H=8666$

Transparency Conditions Very hazy

214

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:02	A	0 41W	+47 00	3"-5"	5.54	09.5 ^{III}	17-17-17	Bin Search	200/62		Line
03:01	B	1 25W	+33 22	1"-3"	7.52	09.5 ^{II}	17-17-17	Bin Search	800/250		Point
03:13	C	3 31W		"	4.3	09.5 ^{II}	25-25	std. Vel.	200/65	weak line	Line
03:43	A	03 23W	+47 03	"	5.54	09.5 ^{III}	17-17-17	Bin Search	200/61		Line
	P						7/7	no filter			

Date 1973 July 19/20 Thu/Fri Observer Blu-Geffken-Tn Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Very cloudy*

216

[illegible]

217 Spectrograph Collimator Realuminized 20/7/73
L.

Date Observer T_n Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
37165 T1				G12	D _{ao} O	6/1.5				A
T2				"	"	13/1.5				B
T3				"	"	20/1.5				C
T4				"	"	13/1.5				A
T5				"	"	13/1.9				B
T6				"	"	13/1.2				C
T7				G12	D _o F	13/1.5				A
T8				G16	"	13/1.5				B
T9				"	"	13/1.5				C
T10				"	"	13/1.5				A
T11				"	"	13/1.5				B
T12				"	"	13/1.5				C
T13				G12	D _{ao} O	13/1.5				A
T14				"		13/1.5				C
37165 F				"		13	73°			B.

Dome Temp. —

Focus —

Dome Temp. —

Hour Angle
End

218

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	1					1 min				
	B	2					"				
	C	3					"				
	A						2 min				
	B						2 min				
	C						"				
	A						5 sec			no filter	
	B						5 sec			"	
	C						10 sec			"	
	A						20 sec			"	
	B						10 sec			Arc centered (no filter)	
	C						5 sec			" no filter	
	A						30 sec			" Filter put in	
	C						1 min			" "	
	B		in in / out out				7/7	no filter		" (5/ to red)	

220

Focus

Dome Temp.

Transparency Conditions some cloud -

more cloud by 1:30

[illegible]

* Baked July 19

Dome Temp. —

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 59° H = 59%

Transparency Conditions cloudy - then very clear ²³²

[illegible]

* Baked July 23

Date July 23-24 Mon-Tues Observer Giffen-Tim Julian Day 173-174

[illegible]

Dome Temp. 65° H=5090

Transparency Conditions Very Good - some thin cirrus

Focus

Dome Temp. 59° H=6970

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:38	A	2 14 W	+19 23	2	1.18	K2 IIIp	60	std vel	20/17?		fine
1:55	B	1 55 W	-15 52	2-3	2.89	Am	17-17-17	sp bin-bl	200/75		fine
2:20	C	2 13 W	135 11	1-2	9.74	B076	17-17-17	"	800/500	length between 4 & 5	fine
										Dev 9mi @ 68° WWP2	
2:47	A	1 36 E	+8 46	2-3	6.15	H95	17-17-17	sp bin-bl	200/55		fine
3:15	B	1 08 E	"	2-3	"	"	17-17-17	"	200/55		fine
3:43	A	0 40 E	"	"	"	"	17-17-17	"	200/55		fine
4:05	B	0 18 E	"	"	"	"	17-17-17	"	200/55		fine
	B		in in / out out				7/7	not filter		Cent to red 19 mins	

* baked July 23

Julian Day

Dome Temp. 62
Focus
Dome Temp. 62

Dome Temp. 61° $H=80\%$

Transparency Conditions Poor - Excellent - Poor

220

[illegible]

* baked 23 July
~~xx~~ baked 18 July

Dome Temp. 68
Focus
Dome Temp. 60

[illegible]

Dome Temp. 60°F $H = 76\%$

Scattered light to medium clouds after 22:00

228

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:35	A	02 04W	+2° 05'	1-2	3.74	AOV	25-25	Sp. Bin-Bin	40/20		
21:15	B	01 30W	+35° 12'	1-2	9.74	09.74	15-15-15	"	800/300	Cyg X-1, Intermittent Cloud	
21:49	C	02 10E	+8° 45'	2	6.15	A9s	15-15-15	"	200/50		
22:13	A	01:46E	+8° 45'	1	6.15	A9s	15-15-15	Sp. Bin-Bin	200/50		
22:36	B	01:24E	"	1	"	"	15-15-15	"	200/50		
22:59	C	00:59E	"	1	"	"	15-15-15	"	200/60		
23:28	A	00:31E	"	1	"	"	15-15-15	"	200/60		
23:47	B	00:12E	"	1	"	"	15-15-15	"	200/60		
03:56	C	03:15 E	+9° 43'		3.66	B8p	25-25	"	40/23		
										Note: Unfortunately all these plates were lost due to overly warm wash water. WM. Warren you are a fink	

* baked July 30

Donne Temp.

Focus

Dome Temp.

Hour Angle
End

0 722

422W

Dome Temp. 60 H 96 }

Transparency Conditions *Cloudy mainly*

230

[illegible]

* baked July 30
* * baked Aug 3 vacuum

Dome Temp. _____
Focus _____
Dome Temp. _____

How Angle
End

232

[illegible]

* baked Aug 3 (vacuum).

Dome Temp. _____
Focus _____
Dome Temp. _____

How Angle	End
2	35 W
2	40W
1	33W
2	13W
1	35W
0	31W
0	24W
0	20E
0	02N
0	20W
3	37E
2	35E

Dome Temp. 60° H = 7376

234

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20.27	A	2 ⁴⁷ 36W		2"	1.3	K20p	30	std vel	40/11		slwk
20.47	B	2 40W	+2 06	1-2	3.74	A0 I	15-15	sp Bin - Bln	40/15		Fine
20.54	C	1 33W	+35 12	"	9.74	B016	10-10-16	"	800/400		Fine
21.4	B	2 13W	+35 37	"	7.60	^{WN4.5+} 09.5I	12-12-12	"	400/230	* Accident / also 2" off (broken)	I strong
										Dew MWP2 @ 68°F 9m	
2.06	C	1 35W	+30 11	2"	5.6	A0	12-12-12	McU *	200/65		Fine
2.25	A	0 31W	+29 28	1.2"	6.28	A5	12-12-12	sp Bin - Bln	400/105		guiding slowing fine
3.51	C	0 24W	+24 35	2"	7.01	A0	12-12-12	sp. Bin. Bln	400/115		sl strong guiding fine
3.11	A	0 20E	+8 44	3-4	6.15	A9s	18-12-6	sp. Bin Bln	200/100		guiding fine
3.34	B	0 02W	"	"	"	"	18-18	"	200/75		fine
3.52	C	0 20W	"	1-3	"	"	18-18	"	200/70		guiding strong
4.03	A	3 37 ⁵		"	4.57	A2	18-18	"	40/19		Fine
4.14	C	2 35E	+9 43	"	3.66	B8p	18-18	"	40/18		sl strong
										MWP2 9m @ 68°F	

* baked Aug 3

Mon-Tues Observer T_g - Geffken

Julian Day

[illegible]

23C

[illegible]

* baked Aug 7 20hrs

Observer.

Tn

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

[illegible]

Dome Temp. 68° H = 9860

248

de Fogel & Shipman 1982

[illegible]

Vigilance 1/2 half

Waterloo

* baked Aug 7

Date Aug. 11-12/73 Sat-Sun Observer TN - Bole Julian Day

Rasbura

[illegible]

Dome Temp. - 7

Focus

Dome Temp.

How Angle
End

014/W:

012N

0124

0149

62204

443

* baked August 12 (16 hr)

Date 12/13 August 1973 sun/moon Observer Bla-Tu

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37219	HD 130 109	14 ^h 41 ^m .2	+2° 19'	G-12	IIa-D ^b *	9/1.7	74°F	20:07	20:11	A	02 33W
37220	HDE 226 868	19 ^h 54 ^m .6	+34° 56'	"	"	20/15		20:16	00:10	B	01 20W
37220 T1	Ca/step	wedge	90sec		"						
37221	UU Psc	00 ^h 09 ^m .8	+8° 16'	G-12	IIa-D ^b *	13/1.5		00:14	00:39	C	02 21E
37222	"	"	"	"	"	13/3		00:40	00:59	A	02 06E
37223	"	"	"	"	"	"	67°	01:01	01:15	B	01 50E
37224	"	"	"	"	"	"		01:16	01:30	C	01 35E
37225	"	"	"	"	"	"		01:31	01:43	A	0 2:5
37226	"	"	"	"	"	"		01:44	01:57	B	
37227	"	"	"	"	"	"		01:59	02:13	C	00 52E
37228	"	"	"	"	"	"		02:14	02:25	B	00 44E
37229	"	"	"	"	"	13/1.5		02:26	02:49	A	00 16E
	"	"	"	"	"	13/1.3		03:00		C	
37229 F1	Focus	Test			"	13	66°F			B	

Dome Temp. 60°F $H = 93\%$

cloud coming up @ 01:15

244

[illegible]

Dome Temp.

246

[illegible]

Aug 14. Cas. Secondary aluminized. L.

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

[illegible]

248

[illegible]

xx Baked Aug 12
x Baked Aug 15

* Baked Aug 15

Observer LR-RV

Julian Day

[illegible]

250

[illegible]

B Aug 15

Observer WEST-RIDDER

Julian Day 2,441,913.6 π 913.8

[illegible]

252

[illegible]

B Aug 15

Dome Temp. —

Focus

Dome Temp. ...

Hour	Angle	End
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100
11	110	110
12	120	120
13	130	130
14	140	140
15	150	150
16	160	160
17	170	170
18	180	180
19	190	190
20	200	200
21	210	210
22	220	220
23	230	230
24	240	240
25	250	250
26	260	260
27	270	270
28	280	280
29	290	290
30	300	300
31	310	310
32	320	320
33	330	330
34	340	340
35	350	350
36	360	360

A452F

1

09-22-11

01433F

10

7.751

23 094.

1

1

nr. 050

100

1

024278

527

1

1

10

1

1

10

Dome Temp. 60°F 73%

Transparency Conditions

254

Focus

Dome Temp. 55°F 94%

5-9182

Timing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:23	A	01 ^h 52 E	+10° 25'		5.2	dF8	10-10-10	Went	200/71		
01:25	B	02 ^h 20 E	+10° 17'		6.75	F7V	10-10-10	Went	400/150		
02:23	C	01 ^h 03 E	+10° 17'		6.75	F7V	10-10-10	"	400/150		
03:49	A	03 ^h 15 E	+05° 34'		4.3	F8	15-15	"	200/75		Dark
03:51	B	00 ^h 09 W	+10° 17'		6.75	F7V	10-10-10	"	400/151		
04:19	C	01 ^h 05 W	+10° 17'		6.75	F7V	10-10-10	"	400/150		
05:05	A	00 ^h 58 ^E	+05° 34'		4.3	F8	10-10-10	"	200/75		
05:27	B	02 ^h 42 W	+10° 17'		6.75	F7V	10-10-10	"	400/150		
05:35	C	03 ^h 40 W	"		"	"	10-20	"	400/49	overdevelop 12 min fog and dome slipping unit	

25-5

B Aug 15 -20 (24hr)

Date Trans - Wind May 21-22 1973 Observer Goffken - Ri Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37252	UU Psc	00 09.8	+8 16	G12	IIaOB	13/.3	64°F	22:39	23:00	A	2 30 E
37253	"	"	"	"	"	"	"	23:01	23:25	B	2 05 E
37254	"	"	"	"	"	"	"	23:26	23:48	C	2 42 E
37255	"	"	"	"	"	"	"	23:49	00:06	A	2 25 E
37256	"	"	"	"	"	"	"	00:08	00:27	B	03 04 E
37257	"	"	"	"	"	"	"	00:28	00:44	C	1 45 E
37257T1	cal step wedge for plates 37252-37262				IIaOB						
37258	UU Psc	00 09.8	+08 16	G-12	IIaOB	13/.3		00:45	01:00	A	01 30 E
37259	"	"	"	"	"	"		01:01	01:17	B	1 12 E
37260	"	"	"	"	"	"		01:18	01:34	C	0 56 E
37261	"	"	"	"	"	"		01:35	01:49	A	0 40 E
37262	"	"	"	"	"	"		01:50	02:04	B	0 25 E
37263	"	"	"	"	"	"		02:05	02:18	C	0 07 E
37264	"	"	"	"	"	"		02:20	02:33	A	0 04 W
37265	"	"	"	"	"	"		02:35	02:50	B	0 00 W
37266	"	"	"	"	"	"		02:52	03:02	C	0 32 W

Dome Temp. 50°F 68°F

Transparency Conditions clear

250

Focus

Dome Temp.

ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:00	A	3 30 E	+08° 45'	3-4	6.15	A95	10-10-10	Sp Bin Blm	400/90		fine
3:25	B	3 05 E	"	"	"	"	10-10-10	"	400/90		fine
3:42	C	2 42 E	"	"	"	"	10-10-10	"	400/80		guiding
3:56	A	2 23 E	"	"	"	"	10-10-10	"	400/80		fine
4:27	3	02 40 E	"	"	"	"	10-10-10	"	400/80		guiding
4:44	C	1 45 E	"	"	"	"	10-10-10	"	400/80		guiding
							90° 10-10-10			Dev MWP2 9min @ 68°F	
01:00	A	01 30 E	"		6.15	A95	10-10-10	"	400/80		guiding
01:17	B	1 12 E	"	2-3	"	"	10-10-10	"	400/80		fine
01:34	C	0 56 E	"	"	"	"	10-10-10	"	400/80		fine
01:49	A	0 40 E	"	"	"	"	10-10-10	"	400/80		fine
02:04	B	0 25 E	"	"	"	"	10-10-10	"	400/80		fine
02:18	C	00 11 E	"	"	"	"	10-10-10	"	400/80		fine
02:33	A	00 10 W	"	"	"	"	10-10-10	"	400/80		fine
02:50	B	00 21 W	"	"	"	"	10-10-10	"	400/80		fine
03:02	C	00 32 W	"	"	"	"	10-10-10	"	400/80	BROKEN + "no end"	fine

✓ baked Aug 19-20 (24 hr)

Dome Temp. —

Focus

Dome Temp.

Hour Angle
End

Transparency Conditions clear.....

258

Dome Temp. 44.0 F

78%

[illegible]

* baked Aug 22

Dome Temp. 5
Focus
Dome Temp. 5

[illegible]

Dome Temp. 57° H=71%Transparency Conditions *Some high cirrus*

260

Focus

Dome Temp. 52° H=72%*cloud by dawn*

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:59	A	2 05E	+46 59	2-3"	5.54	095II	10-10-10	LR-Bin Search	200/72		Fine
10:46	B	2 33E	+33 20	2-4"	7.52	09.Vp	10-10-10	"	800/275	2" broken off	guiding
11:05	A	1 05E	+54 22	2-3"	9.21	825Ib	10-10-10	"	800/250	cloud then clear	Fine
12:25	B	0 51E	+58 06	2-3"	8.61	09III	10-10-10	LR Bin Search	800/210		Fine
1:22	A	3 01E	+57 02	"	8.4	B2Ibp	10-20	"	800/210		"
1:59	B	2 35E	+41 23	"	7.26	08V	10-10-10	"	400/125		guiding bad
3:39	C	0 35E	+55 31	2"	8.88	09V	10-10-10	"	800/240		guiding
3:49	B	1 06W	+62 49		4.30	B0I	15-15	"	20/12		guiding strong
4:23	C	1 36E	+29 06	"	5.1	B8p	10-20	GL Shell	40/28	cloud	Fine
4:46	A	0 51E	+9 42	"	3.66	B8p	15-	Sp Bin Blm	40/17	cloud (v. thick!)	"
	B		in in front out				1/4	no filter			

761

* baked 23/24 August (24^{hrs} in Vacuum ~53°C)
 ** baked Aug 22

Date 24/25 August 1973. Fri/Sat. Observer Bla-Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37284	HD193432	20 ^h 15 ^m .1	-13° 04'	G-12	IIIa-Jb [*]	9/.7		19:53	20:25	A	2 00E
37285	"	"	"	"	"	"	69°F	20:30	21:04	C	01 19E
37286	HD 201433	21 ^h 04 ^m .4	+29° 48'	"	"	"		21:12	21:47	A	01 25E
37287	"	"	"	"	"	"		21:50	22:36	C	03 37E
37286 71	Cal/step	wedge	180sec		"					.	
37288	UU Psc	00 09.8	+8 16	"	IIa 0-6 ^{**}	13/13		22:39	22:54	A	3 25E
37289	"	"	"	"	"	"		22:55	23:07	B	03 12E
37290	"	"	"	"	"	"		23:08	23:19	A	03 05E
37291	"	"	"	"	"	13/15		23:20	23:38	C	02 43E
37292	"	"	"	"	"	13/15		23:41	23:58	A	02 20E
37293	"	"	"	"	"	"		00:02	00:18	B	02 00E
37294	"	"	"	"	"	"		00:20	00:37	C	01 41E
37295	"	"	"	"	"	"		00:42	01:02	B	01 16E
37296	"	"	"	"	"	"		01:03	01:22	A	00 56E
37297	"	"	"	"	"	"		01:25	01:43	B	00 35E
37298	"	"	"	"	"	"		01:44	02:03	C	00 15E

Dome Temp. Focus Dome Temp.

Dome Temp. 6.5° H=80%

Transparency Conditions Hazy

262

Focus

Dome Temp.

big night for satellites - from SW-NE
(4 observed) one was tumbling, fluctuating

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:25	A	2 00 E	-12° 46'	2"-3"	4.70	B9	15-15-15	Abund. Std.	80/42		overexposed
21:04	C	01 19 E	"	"	"	"	20-20-20	"	80/56		"
21:47	A	01 25 E	+30° 10'	1"-2"	5.6	A0	20-20-20	Sp. Bin - Blw	200/144		"
22:36	C	0 37 E	"	"	"	"	30-30-30	"	200/210		"
										Dev MWP2 9min @ 63°F	
22:54	A	3 25 E	+8 44	2"-3"	6.15	H95	10-10-10	"	400/80		fine
23:07	B	03 12 E	"	"	"	"	10-10-10	"	400/80	maybe fog	fine
23:19	A	03 00 E	"	"	"	"	10-10-10	"	400/80		fine
23:30	C	02 40 E	"	"	"	"	10-10-10	"	400/130		fine
23:44	A	02 20 E	"				10-10-10	"	400/130		fine
00:18	B	02 00 E	"				10-10-10	"	400/130	prob fogged	fine
00:37	C	01 41 E	"	"	"	"	10-10-10	"	400/130		fine
01:00	B	01 16 E	"	"	"	"	10-10-10	"	400/130		fine
01:22	A	00 56 E	"	"	"	"	10-10-10	"	400/130		fine
01:43	B	00 35 E	"	"	"	"	10-10-10	"	400/130		fine
02:03	C	00 15 E	"	"	"	"	10-10-10	"	400/130		fine

Julian Day

Hour Angle
End

Dome Temp. 60° H = 98% & wet

Transparency Conditions fog

264

[illegible]

965

Date Aug. 25/26 Sat-Sun Observer Tn - Geffken Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37302	HD 201433	21 ^m 04. ^s 24	+29° 48'	G12	IIaOb*	9/1.7		22:18	23:02	A	0 07E
3730271	cut stop wedge		90 sec		"						
37303	HD 213534	22 26.56	+29 02	G12	IIaOb*	13/1.5		23:12	23:42	B	0 49E
37304	UU Bsc	0 09 50	+8 16	"	"	13/1.3		23:44	00:14	C	2 00E
37305	"	"	"	"	"	"	71°	00:15	00:42	A	1 31E
37306	"	"	"	"	"	"		00:43	01:06	C	1 07E
37307	"	"	"	"	"	"		01:08	01:32	A	0 42E
37308	"	"	"	"	"	"		01:33	02:01	C	0 12E
37309	"	"	"	"	"	"		02:02	02:30	A	0 15W
37310	"	"	"	"	"	"		02:31	03:01	C	0 42W
37311	HD 21364	3 21.7	+9 23	"	"	9/1.5		03:06	03:18	B	2 06E
37312	HD 26961	4 10.7	+50 3	"	"	9/1.7		03:28	03:42	A	2 35E
37313	HD 23862	3 43.3	123 51	"	"	"				B	

Dome Temp. Focus Dome Temp.

Dome Temp. 68° H=77%

Transparency Conditions *questionable - highly questionable*

268

Focus

Dome Temp. 63° H=92%

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
23:02	L	0 07 E	+30 09	1-2	5.6	A0	10-10-10	McU	400/165		fine
										Dev 9min MWP2 @68°F	
23:42	B	0 49 E	+29 28	1.2"	6.28	A5	10-10-10	Sp Bin Bin	400/100		guiding
00:14	C	2 00 E	+8 44	"	6.15	A9s	10-10-10	Sp Bin Bin	400/80		fine
00:42	A	1 31 E	"	2"	"	"	10-10-10	"	400/80		fine
01:06	C	1 07 E	"	"	"	"	10-10-10	"	400/80		fine
01:32	A	0 42 E	"	"	"	"	10-10-10	"	400/80		fine
02:01	C	0 12 E	"	"	"	"	10-10-10	"	400/80	some cloud	fine
02:23	A	0 15 W	"	2.4"	"	"	10-10-10	"	400/80	cloud	fine
03:01	C	0 48 W	"	2	"	"	10-10-10	"	400/80	fired	fine
03:18	C	2 06 E	+9 42	2"	3.66	B8p	15-15	"	200/50		fine
03:42	A	2 35 E	+50 16	"	4.57	A2	10-10-10	"	200/70		guiding
	B				5.1	B8p		GI-shell	200/	cloud	

267

** baked 23/24 August (Vacuum @ 53°C)

Date 28/29 August '73 Tue/Wed Observer Blh-Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37313	68 Oph	17 ^h 56 ^m .7	+1° 18'	G-12	IIa-Ob*	13/.7		19:46	19:55	A	0 05W
37314	HDE 226868	19 ^h 54 ^m .6	+34° 56'	"	"	20/.3		19:59	22:14	B	0 27W
37314 T1	Col step	wedge	90 sec		"						
37315	HD 201433	21 ^h 04 ^m .4	+29° 48'	"	IIIa-Jb**	9/.7		22:17	22:57	C	00 21W
37316	HD 201433	"	"	"	"	"	80°F	22:59	00:05	A	01 08W
37317	HD 219615	23 ^h 12 ^m .0	+2° 44'	B16	IIa-F	"		00:12	00:42	B	00 22E
37318	HD 216489	22 ^h 48 ^m .2	+16° 19'	"	"	9/.5		00:46	03:46	C	53 52W
37318 T1	Col step wedge	for 37317, 18			"	5 min + 10 sec					
37318 T2	" " "	for 37315, 16			IIIa-Jb**	180 sec					
37318 F1	Focus Test			G12							
37319	HD 21364	03 ^h 21 ^m .8	+9° 23'	"	IIa-Ob	9/.5	76°	04 00	04:05	B	01 09E
37320	HD 23862	03 ^h 43 ^m .3	+23° 51'	"	"	9/.7		04 09	04:28	C	01 08E
37321	b Per	04 ^h 10 ^m .7	+50° 03'	"	"	"		04 30	04:40	B	01 24E
37322	HD 24760	03 ^h 51 ^m .1	+39° 43'	"	"	"		04 43	04:46	A	00 59E
37323	HD 24912	03 ^h 52 ^m .5	+35° 30'	"	"	"		04:48	04 52	C	00 53E

Dome Temp. 73° H~~58~~6%

Fireball seen N-75 at 20:15, by someone who phoned.
Another " " at 20:55,

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:55	A	0 05W	+1° 21'	2-3	4.46	A1V	10-10-10	Sp. Bin-Bln	40/14		fine
2:14	B	0.27W	+35° 11'	2"	9.74	09.74L	10-10-10	"	800/280		guiding during
								Dev 9mm @ 68°F			
2:57	C	00 01W	+30° 07'	3-4	5.6	A0	20-20-20	Sp. Bin-Bln	200/143		dev by
3:05	A	01 08W	"	"	"	"	30-30-30	"	200/280		dev by
3:42	B	00 22E	+3° 13'	"	V=3.69	G7III	3-3-3	Li Std	40/56		fine
3:46	C	03 07W	+16 46	3'-4'	V=5.69	K0III	3-6-2	Li Search	200/194	cloud	guiding
								Dev 7mm @ 68°F			
								Dev 7mm @ 68°F			
								in on/outlet 6-6 no filter			
4:05	B	01 09E	+9 42		3.66	B8p	10-20	Sp. Bin-Bln	40/11		fine
4:21	C	01 08E	+24 07	2-3	5.1	B8p	10-10-10	G1 Shell	200/70		fine
4:40	B	01 24E	+50° 16'	4-5	4.57	A2	10-10-10	Sp. Bin-Bln	200/70		fine
4:46	A	00 59E	+39 56	2-3	2.71	B0.5	10-10-10	"	40/16		shiny
4:52	C	00 53E	+35° 44'		4.04	07	15-15	"	40/14		shiny
								(*) Urgent		more plates need cutting	

* baked 23/24 Aug
xv baked Aug 29

Dome Temp. .

Focus

Dome Temp.

Hour Angle
End

01 45E

61 22E

10 4/2

6150E

BS 20 W

0033 N

60 24 E

Dome Temp. 74° H = 847.

Transparency Conditions Very good but getting hazy

Exposure meter unpredictable

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:53	A	01 45E	+47 01	1-2"	5.54	09.5 II	20-20-20	Bin Search	200/125	NOTICE IIIaJ?	dev fog
1:30	B	01 22E	+33 20	"	7.52	09.5 p	20-20-40	"	800/600	" "	"
								Dev 7 min @ 68°F MWP2		" "	"
								" 9 min @ 68°F MWP2			
2:31	A	00 49W	+54° 24	2-3	9.21	B25 Ib	10-10-10	Bin Search	800/240		sl. strong
2:14	B	01 50E	+56 03	"	8.4	B2I6p	10-10-10	"	800/210		sl. strong
09:05	A	00 20 W	+55 31	2"	8.88	09.5	10-10-10	"	800/240		quiescent
3:44	B	00 38 W	+41° 25	3-4	7.26	08.5	10-10-10	"	800/240		quiescent
4:58	A	00 34 E	+24 06	2"	5.1	B8p	10-10-10	Shell prog	200/70		sl. strong
	B							2 min / 1-2 sec / 100 f / 1 hr	5/5		
										Satellite ?? moving very slowly from Cyg to NE 00:05 - 00:30	

* baked Aug 30 Box #3

Dome Temp. ...

Focus *K.*

Dome Temp. .

Hour Angle
End

1136E

0142E

0135E

02 REF

Dome Temp. 77° $H = 83 \frac{5}{8}$

Transparency Conditions *hazy, some cloud*

272

focus changed R-46 to R-25

[illegible]

Date Sept 1 Sat 173 Observer B/n-Tn Julian Day 173

Dome Temp.

274

No 90

[illegible]

228

Dome Temp. 78
Focus
Dome Temp. 79

[illegible]

Focus

Dome Temp. 77° 95 70

Transparency Conditions *very hazy*

276

[illegible]

* baked Aug 30 Box #3

Dome Temp. 8

Focus

Donne Temp. ...

[illegible]

Dome Temp. 84°F H=728

Focus

Dome Temp. 75°F H=8170

Transparency Conditions

haze & some thin cloud

Sat in Cyg at 00:15. going NE.

Times corrected

278

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
22:24	A	0 58W	+35 11	1"	9.74	B016	10-10-10 ¹⁰	Sp Bin - Bl	800/450		Good
										Dev 7 1/2 min @ 75°F MWP2	
22:58	B	2 45E	+8 44	3	6.15	A93	10-10-10	Sp Bin - Bl	200/65		Fin
23:20	C	02 23E	"	"	"	"	10-10-10	"	200/65		Fin
23:44	A	01 59E	"	2	"	"	10-10-10	"	200/65		Fin
00:05	C	01 37E	"	"	"	"	10-10-10	"	200/65		Fin
00:31	A	01 11E	"	2-5"	"	"	10-10-10	"	200/65		Fin
01:02	C	00 40E	"	"	"	"	10-10-10	"	200/65		Fin
04:30	B	04 32W	+49 15	2-3"	V=6.42	K1 III	3-3-3 ^{no filter}	Li Search	400/480	some cloud (a lot of cloud)	Fin
										Dev 4 min @ 75°F MWP2	
04:50	C	01 52W	+15 18		V=6.82	G8 III	3-3-3	Li Std	40/48		Fin
25:00	A	00 07W	+9 42		3.66	Bsp	10-10-10	sp Bin - Bl	40/10		sl slung

27th
pg 1

* baked Sept 2

Date Mon-Tues Sept 3/4/73 Observer G1-Tn/Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37349	HD 179343	19 07.0	+2 27	G12	D ₄₀ -b*	13/15		19:30	20:09	A	00 27E
37350	HD 183056	19 25.6	+3 14	G12	D ₄₀ -b*	13/15		20:13	20:28	B	00 27E
37350 TI	Cal step	wedge	90 sec		"						
37351	HD 192954	20 12.6	+15 34	G12	"	13/15		20:32	21:10	C	00 32E
37352	HD 193182	20 13.8	+39 17	"	"	"		21:14	21:34	B	00 32E
37353	HD 195407	20 26.0	+36 39	"	"	"	83°F	21:37	22:22	C	00 32E
37354	HD 195325	20 25.5	+10 34	"	"	"		22:29	22:50	A	00 56W
37355	HD 205637	21 31.5	-19 54	"	"	"		22:55	23:10	B	00 59W
37356	HD 218393	23 02.6	+49 40	"	"	"		23:16	23:43	C	01 49E
37357	UU Pec	00 09.8	+18 16	"	"	"		23:57	00:15	B	01 24E
37358	"	"	"	"	"	9/15		00:16	00:41	C	00 58E
37359	"	"	"	"	"	"		00:42	01:08	A	00 31E
37360	HD 219615	23 12.0	+2 44	G16	D ₄₀ F	"		01:16	01:37	B	00 56W
37361	HD 216489	22 48.2	+16 19	"	"	"		01:39	03:16	C	03 00W
37361 TI	Cal step	typo	5 min		"						
37362	HD 222107	23 32.7	+45 55	G16	"	9/15		03:19	03:32	B	02 31W

Dome Temp. 85° $H=65\%$

Focus ^{sat at 00:20}

Transparency Conditions Very Good - some haze

00:29 Set in Cyg at 00:20

Dome Temp. 75° $H=85\%$

clock was 2.5 min slow - & reset

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:09	A	00 27E	+02° 39'	2"	7.1	B9	10-12-10	Shell-G1	400/150		sl. strong
00:28	F	00 27E	+03 28	"	6.1	A0	10-10-10	A1-Shell	400/130		sl. strong
										Dev 7 1/2 min @ 44°F MWP2	
01:10	C	00 32E	+15° 53'	2"	7.3	B9	10-10-10	G1-Shell	400/130	1" broken on line #51	
01:34	B	00 09E	+39 32	2 1/2"	6.4	A0	10-10-10	"	200/65		sl. strong
01:22	C	00 28W	+36 56	1 1/2"	8.1	B3	10-10-10	"	400/100+?		sl. strong
02:50	A	00 56W	+10 52	2"	5.92	A0	10-10-10	"	400/130		sl. strong
03:10	B	00 09W	-19 30	3-4"	4.6	B3	10-10-10	"	200/65		fine
03:45	C	00 49E	+50 05	1-2"	6.99	A5p	10-10-10	"	400/130		guiding
00:15	B	01 24E	+08 45	2"	6.15	A9s	10-20	Sp Bin - B16	200/65		fine
00:41	C	00 58E	"	1 1/2"	"	"	10-10-10	"	200/65		guiding
01:08	A	00 31E	"	2 1/2"	"	"	10-10-10	"	200/65		guiding
01:37	B	00 56W	+3 13	1 1/2"	$\sqrt{3.69}$	G7 III	3-3-3	Li std	200/250	$w_{\lambda} = 5.56$	fine
03:16	C	03 00 W	+16 47	"	$\sqrt{5.69}$	K0 III	3-3-3	Li search	200/240		fine
										Dev 4 min @ 75°F MWP2	
03:32	B	02 31W	+46 23	1 1/2"	$\sqrt{3.75}$	G8 IV	3-3-3	Li search	40/50	cont.	fine

* baked Sept 2

Date Tues Wed Sept 4/5 73 Observer Hu-Tn Julian Day

[illegible]

Dome Temp. 71° 84%

Sat 0:24
 0:28
Transparenc

Transparency Conditions

clouding in haze

282

[illegible]

285

[illegible]

Dome Temp. 55°F 57%

Focus $S-R$

Dome Temp. 45°F 73%

Transparency Conditions

286

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19.39	A	04410W	+19°24'	10-20	$V=0.06$	K2IIIp	3 6	Li Std	40/50		slight
20.04	B	01442W	+50°25'	4-5	$V=5.87$	K1III	3-3-3	Li Search	400/550		
01.56	C	02440W	+47°08'		$V=6.75$	K0III	3-3-3	Li Search	400/550		good
							5mm			Dev 6mm @ 68°F MWP2	
	F	+16°47'			$V=5.69$	K0III	3	Li Search	400/	clouds at 02:45	
	B						5-5 mm filter			Warmer: develop the focus plate	

Date Fri/Sat 7/8 Sept. '73 Observer Bl.-Gl.-R. Julian Day

[illegible]

Dome Temp. 450 F

Transparency Conditions

288

[illegible]

Date 9/10 SEPT '73 Sun/Mon Observer Bln-Ri Julian Day 2443850.5

[illegible]

Dome Temp. $45^{\circ} / t = 85\%$

Transparency Conditions Superb! Oh yeah!! 290

[illegible]

291

Baked Sept 10 (16 hr dry bake) Box #5

Date Mon-Tues Sep 10-11/1975 Observer G/-Ri / Hu-Ri Julian Day 2443980.5

[illegible]

Dome Temp. 50°F 50%

Focus

Dome Temp. 50°F 82%

x00131 (satellite)

Transparency Conditions

292

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20 20	A	00 ^h 41W	-15°50'		8.3	Bpe	10-20	G1 Shell	800/80	clouds overdevelop please!	sl. strong
21 46	B	00 ^h 31W	+39°34'	2	6.4	Ape	10-10-10	G1 Shell	400/130		sl. strong
22 53	C	01 ^h 27W	+36°56'	2-3	8.1	B3e	10-10-10	G1 Shell	800/260	BROKEN 3 pieces	fine
23 08	A	00 ^h 35W	-19°30'		4.60	B3Ie	10-10-10	G1 Shell	200/65		sl. strong
23 55	B	00 ^h 08 ^E W	+50°05'	2-3	6.99	A5D	10-10-10	G1 Shell	400/130		sl. strong
00 52	F	01 ^h 15W	+44°54'		7.12	A2	10-10-10	Hd Sp. Bw	400/130		sl. strong
							180 sec			Dev 9 min MWP2 @ 68°15'	
01 15	B	01 ^h 33E	+50°42'		5.62	B9III	10-10-10	Hd Sp Bw	400/130		sl. strong
					7.50	A2			800/	clouds clouds	
	A						5-5 min fwh			closed up 0215	ok

Baked Sept 10 Box[#] 5

Dome Temp. - 5

Focus

Dome Temp. ...

[illegible]

Dome Temp. 50°F 56%

Transparency Conditions good & clear

294

Focus

Dome Temp. 45°F 65%

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:39	A	00°45'58"E	+14°20'		6.1	B8IV	10-10-10	Hd Sp Bin	400/130		sl. strong
20:58	B	00°4'00"	+15°30'		6.34	M2III	10-10-10	"	400/250		fine
21:08	C	01°4'30"E	+44°55'	4"	7.12	A2	10-10-10	"	400/130		fine
23:02	A	01°4'55"E	+73°04'		7.52	A2	10-10-10	"	400/130		fine
23:15	B	01°4'44"E	+61°10'		5.9	B7III	10-10-10	"	400/130		sl. strong
23:32	C	03°4'13"E	+50°41'		5.62	B9III	10-10-10	"	400/130		sl. strong
00:02	A	02°4'32"E	+60°55'		5.58	B7II	10-10-10	"	400/130		fine
							180 sec.			Dev 9 min @ 68° MWP2	
00:50	B	01°4'53"E	+47°18'		7.14	B8	10-10-10	"	400/130		quadrant
	C	01°4'32"E	+67°68'		7.7	F2II	10-10-10	"	400/98	clouds overdeveloped plane cloud up at 03:10	quadrant
										Warren: Moe IIa 0 plates please	

N^o 41
Pg 41

* baked Sept 12

Date Wed Thurs Sept 12-13 1973 Observer Hu-Tn / Bln-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37411	HD 161096	17 38.5	+4 37	G12	IIaOB*	13/5	63°	19:12	19:14	A	00 41W
37412	HD 186547	19 39.9	+13 04	"	"	"		19:18	19:31	B	01 03E
37413	HD 190658	20 00.9	+15 13	"	"	"		19:35	20:35	C	02 20E
37414	HD 214946	22 36.7	+44 29	"	"	"		20:41	21:13	B	02 17E
37414T1	Cal step	wedge	90 sec		"						
37415	HD 216494	22 48.2	-12 09	G12	"	13/5		21:17	21:34	C	02 08E
37416	HD 225093	23 58.3	+72 36	"	"	"	60°	21:40	22:24	B	02 28E
37417	HD 225289	23 59.9	+60 45	"	"	"		22:28	22:38	C	02 15E
37418	HD 11291	01 45.8	+50 18	"	"	"		22:52	23:00	B	03 40E
37419	HD 10260	01 35.3	+60 32	"	"	"		23:03	23:21	C	03 10E
37420	HD 11188	01 44.9	+46 58	"	"	"		23:26	23:56	A	02 42E
37421	HD 213389	22 25.9	+48 51	G16	IIaF	9/5		00:08	02:17	A	02 59W
37422	HD 219615	23 12.0	+2 41	"	"	"		02:21	02:37	B	02 32W
37423	HD 6805	01 03.6	-10 43	"	"	"		02:41	03:01	C	01 04W
37424	HD 27371	04 14.1	+15 23	"	"	"		03:04	03:16	A	01 52E
37425	HD 62044	07 37.1	+29° 08'	"	"	"	55°F	03:21	03:46	B	04 45E

Dome Temp. 47°F @ 58%

Transparency Conditions Excellent

296

Focus

Dome Temp.

x 00:33

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:14	A	00 ^h 41 ^m W	+4 38	2"	3.93	K2 III	30	Std Vel	40/15		fine
19:31	B	01 03 E	+13 17	2-3"	6.1	B8 IV	10-10-10	Hd Sp Bin	400/130		fine
20:35	C	00 20 E	+15 30	2-4"	6.34	M2 III	10-10-10	"	400/275		fine
21:13	P	02 17 E	+44 55	2-3	7.12	A2	10-10-10	"	400/130		fine
										Dev 9min @ 68°F MWP2	
21:34	C	02 08 E	-11 41	4-8"	5.9	B9 V	10-10-10	Hd Sp Bin	200/65		fine
22:24	B	02 28 E	+73 04	2-3	7.52	A2	10-10-10	"	400/130		guiding
22:38	C	02 15 E	+61 13	"	5.9	B7 III	10-10-10	"	200/65		fine
23:00	S	03 40 E	+50 41	"	5.62	B9 III	10-10-10	"	200/65	started on wrong star	fine
23:21	C	03 10 E	+60 56	"	5.58	B7 V	10-10-10	"	200/65	clock o.k. Eclipse? Seems too faint??	fine
23:56	A	02 42 E	+45 19	"	7.14	B8	10-10-10	"	200/65	(Moon at 23 ^h 46 ^m)	guiding
21:17	A	02 59 W	+49 16	"	V=6.42	K1 III	3-3-3	Li Search	400/550	5 25+4°	fine
23:37	B	02 32 W	+3 13	"	V=3.69	67 III	3-3-3	Li Std	80/110	-log w/λ = 5.56	fine
23:01	C	01 04 W	-10 16	3	V=2.44	K3 II	3-3-3	"	80/110	-log w/λ = 4.80	fine
23:16	A	01 52 E	+15° 37'	3	V=3.66	K0 III	3-3-3	"	80/110	-log w/λ = 5.36	fine
23:46	B	04 45 E	+29 00		V=4.28	K1 III	3-3-3	Li Search	80/110	cont →	fine

Transparency Conditions

Dome Temp. 45.....

852

208

[illegible]

Date Fri-Sat Sept 14-15 1973 Observer G.I.-Tn / B.L.-Tn Julian Day 2445150

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37429	HD 179343	19 ^h 07 ^m .0	+2° 27'	G12	IIa-O.	13/5	64°F	19:26	20:18	C	10 25W +
37430	HD 183656	19 ^h 25 ^m .6	+3° 14'	G12	IIa-O	13/5		20:21	20:48	A	00 36W +
37431	HD 192954	20 ^h 12 ^m .6	+15° 34'	G12	IIa-O	13/5		20:50	21:56	B	00 58W +
37431 T1	cal stop wedge		180 sec		"						
37432	HD 193182	20 ^h 13 ^m .8	+39 17"	G12	IIa-O	13/5		22:00	22:31	C	01 31W +
37433	HD 195325	20 25.5	+10 34'	G12	IIa-O	13/5		22:33	23:05	B	0 54W -
37434	HD 218393	23 02.6	+49 40	G12	IIa-O	13/5		23:08	23:54	C	00 06W +
37435	HD 206267	21 35.9	+57 02	G12	IIa-O	13/7		23:58	00:25	B	02 05W +
37436	b Per	04 10.7	+50 03	G12	IIa-O	13/7		00:30	00:39	C	04 26E +
37437	HD 213534	22 26.9	+29 02	"	"	13/5		00:45	01:18	B	02 06W -
37438	HD 218154	23 00.6	+29 07	"	"	"		01:21	02:17	C	02 31W -
37439	b Per	04 10.7	+50 03	"	"	13/7	58°F	02:23	02:31	A	02 27E +
37440	HD 28363	04 23.3	+15 57	"	"	9/13		02:40	03:35	C	01 34E +
37441	HD 30869	04 46.2	+13 29	"	"	"		03:38	04:19	B	12E +
37442	HD 28052	04 20.7	+15 23	"	"	9/5		04:20	04:36	C	00 30E +
37443	HD 21364	03 21.8	+9 23	"	"	9/5		04:38	04:41	A	00 35W +

Dome Temp. 50°F - 79%

Transparency Conditions *Some Haze*

300

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:18	C	00 25W	+2 38	1-3"	7.1	B9	17-17-17	G1 Shell	400/200		Fin
20:48	A	00 36W	+3 28	"	6.1	A0	17-17-17	"	200/100		Fin
21:56	B	00 58W	+15° 53'	"	7.3	B9	17-17-17	"	400/200		Fin
										Dev 9mi @ 68°F mwp2	
2:31	C	01 31W	+39 34	1-3"	6.4	A0	17-17-17	G1 Shell	400/200		Fin
2:05	B	01 54W	+10 52	"	5.92	A0e	17-17-17	"	200/100		Fin
3:54	C	00 06W	+50 07	2-4"	6.99	A5p	17-17-17	"	400/200		Fin
0:25	B	02 05W	+55 27	"	5.83	06	17-17-17	Sp. Bin-Bln	200/160		sl shes
0:39	C	04 20E	+50 17	3-4	4.57	A2	17-17-17	"	80/57		Fin
1:18	B	02 06W	+29 27	"	6.28	A5	17-17-17	"	400/200		Fin
2:17	C	02 31W	+24 35	"	7.01	A0	17-17-17	"	400/200		Fin
2:31	A	02 27E	+ 11		4.57	A2	25-25	"	80/56		Fin
3:35	C	01 34E	+16 08	2-4"	7.14	F8	17-17-17	Sp Bin-Bln	400/160		Fin
4:19	B	01 12E	+13 39	1-3'	6.70	F5	17-17-17	"	400/160		Fin
4:36	C	00 30E	+15 37	"	4.73	F0V	17-17-17	"	40/30		sl shes
4:41	A	00 35W	+9 43	"	3.66	B8p	25-25	"	40/16		Fin

Dome Temp.

Transparency Conditions *Excellent*

302

[illegible]

263

* balced sept 15

Date 1973 Sept 16/17 Sun/Mon Observer Bln-Tu/LR-Ja Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37447	HD 206267	21 ^h 35 ^m .9	+57° 02'	G-12	IIa-06*	13/7	57°F	19:04	19:23	A	02:50E +
37448	HD 190658	20 00.9	+15 13	G-12	IIa-06*	13/5		19:29	21:11	C	03:22W +
37448T	Cal step	wedge	90 soc		"						
37449	HD 214946	22 ^h 36 ^m .7	+44° 29'	G-12	IIa-06*	13/5		21:14	22:10	A	01:05E +
37450	HD 225093	23 58.3	+72 36	"	"	"		22:15	23:05	C	01:32E +
37451	HD 206267	21 35.9	+57 02	"	"	13/7		23:10	23:28	A	01:51W +
37452	HD 26961	04 ^h 10 ^m .7	+50° 03'	G-12	IIa-06*	13/7		23:33	23:39	B	05:12E +
37453	2 Tau	03 21.8	+9 23	"	"	13/5		23:44	23:47	C	04:13E +
37454	HD 24912	03 ^h 52 ^m .5	+35° 30'	"	"	13/7		23:50	23:54	A	04:37E +
37455	HD 24760	03 ^h 51 ^m .1	+39° 45'	"	"	"		23:57	23:59	C	04:30E +
37456	HD 14633	02 ^h 16 ^m .7	+41° 02'	"	"	13/5		00:07	00:48	B	02:47E +
37457	HD 12323	01 ^h 55.8	+55 08'	"	"	13/3		00:54	03:23	C	04:50W +
37458	HD 14443	02 14.9	+56° 42'	"	"	13/3		03:27	04:59	B	02:05W +
37459	b Per...	04 10.7	+50° 03'	"	"	13/7		05:03	05:10	C	04:22W +
37459FI	Focus Test			"		13	46°			B	

Dome Temp. 47° H=78%Transparency Conditions *Very Good*

304

Focus

Dome Temp. 38° 84

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:23	A	02 50 E	$+57^{\circ} 25'$	7	5.83	06	10-10-10	Sp. Bin-Bln	200/85		fine
10:11	C	00 32 W	$+15^{\circ} 31'$	3"-6"	6.34	M2 III	10-10-10	Sp. Bin-HL	400/230		sl. weak
										Dew 9 mi @ 68° F MWP2	
12:10	A	01 05 E	$+44^{\circ} 55'$	3"-5"	7.12	A2	10-10-10	Sp. Bin-Hd	400/120		fine
12:05	C	01 32 E	$+73^{\circ} 04'$	"	7.52	A2	10-10-10	"	400/100		fine
12:28	A	01 15 W	$+57^{\circ} 23'$	"	5.83	06	10-10-10	Sp. Bin-Bln	200/80		sl strong
12:39	B	05 12 E	$+50^{\circ} 16'$		4.57	A2	10-10-10	Sp. Bin-Bln	80/28		fine
13:47	C	04 13 E			3.66	B8p	25-25	"	40/10		fine
13:54	A	04 37 E	$+35^{\circ} 46'$	5"	1.04	07	10-20	"	40/15		guiding
13:59	C	04 30 E	$+39^{\circ} 59'$	5"	2.71	B0.5V	15-15	Sp. Bin-Bln	40/14		guiding
14:49	B	02 07 E	$+41^{\circ} 24'$	"	7.26	08V	10-10-10	Bin-Search	800/240		sl strong
13:23	C	00 50 W	$+55^{\circ} 33'$	2-3	8.88	09V	10-10-10	"	800/190		sl strong
14:59	B	02 05 W	$+57^{\circ} 03'$	"	8.4	B2I6p	10-10-10	"	800/200		fine
15:10	C	00 22 W	$+50^{\circ} 16'$	"	4.57	A2	10-10-10	Sp. Bin-Bln	80/53		fine
	B1		in in 100 ft				5/5	no filter			ok

*baked Sept 15

Donne Temp.

Focus

Dome Temp.

Hour Angle
End

01 57W

02 24w1

75 09E

60 40W

0128E1-

22E

18 Nov

10

Dome Temp. 54° H = 64%.

$$H = 647.$$
Transparency Conditions *Photometric*

Photometric

B. Dipper

Focus

Dome Temp. 45

45

802

0192

x 504 0138

x 01:07
504

[illegible]

* baked Sept 19
* baked Sept 20 (for Fishs)

Dome Temp. ... 4.
Focus
Dome Temp. ... 3

Hour Angle End	
01 05E +	
00 45E +	
00 17E +	
02 14W -	
00 02W -	
01 34W +	
12 ^h 10W +	

Dome Temp. 43° H=62%Transparency Conditions Excellent - Photometric

308

Focus

Dome Temp. 37° H=78

Sat X 00:40

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:00	A	01 05E	+10 39	3"-4"	4.15	K3 II	50	std vel	40/28		fine
19:26	F	00 45E	+47 01	2"-4"	5.54	095 II	17-17-17	Bin-Search	200/90		sl strong
21:09	C	00 17E	+33 20	2"-4"	7.52	095 II	17-17-17	"	400/200		sl strong
20:30	B	02 14W	+54 24	"	9.21	B25 Ib.	10-10-10	"	800/200		fine
02:27	C	00 08W	+55 32	"	8.88	095 II	10-12-10	"	800/175		sl strong
04:12	B	01 34W	+57 04	"	8.4	B2 Top	12-12-12	"	800/200		fine
										Dew 9 min 068°F MWP2	
										" "	
										" "	
04:46	C	02 ^h 10W	+41 26	1"-2"	7.26	08 II	12-12-12	"	400/125	possibly double on slit - see obs card.	sl strong
			in in / out at				5/5	no filter			
										Tried to spot Kouches comet	

* taken Sept 20 7.5415

Dome Temp.
Focus
Dome Temp.

Hour	Angle
End	
02	05 E.
00	57 E
	E
00	15 W 17

Dome Temp. 48° H=6170

Transparency Conditions Fair and deteriorating.

310

Focus

Dome Temp. 37° H=70%

Warren Note

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18:57	A	02 05E	+36 27	1"-2"	4.42	B5V	15-17	Sp. Bin-Bln	40/17		guiding
19:06	B	00 54E	+35 12	"	9.74	B0Ib	12-12-12	"	800/161	cloud } overdevelop	fine
								Dev 12 min @ 67°	MWP2	} please	
								Dev 9 min @ 69°	MWP2		
21:37	C	00 15W	+57° 25'	2"-6"	5.83	06	12-12-12	Sp. Bin-Bln	200/84		
			+8° 44'		6.15	A95	12-12-12	Sp. Bin-Bln	400/	Cloud	

221

Dome Temp. 50°
Focus
Dome Temp. 50°

How Angle End
00° 30' W
02° 15' E
01° 23' E
01 25 E
01 48 W
00 28 E
29
21 4 W

Dome Temp. 52° 9778

312

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:02	A	00 ^H 30 ^M W	+58° 48'	2"-4"	4.93	A1V	12-12-12	Sp. Bin-Bln	80/34		Fin
9:30	B	02 ^H 15 ^M E	+57° 25'	4	5.83	06	12-12-12	Sp. Bin-Bln	200/110		sl. drag
9:32	C	01 ^H 23 ^M E	+28° 40'	4	6.90	A9+ A9	12-12-12	Sp. Bin-Bln	400/150		Fin
11:13	A	01 25 E	+29° 25'	2"-4"	6.28	A5	12-12-12	Sp. Bin-Bln	200/75		Fin
12:00	B	01 48 W	+35 46	"	7.60	WN4.5 109.5%	12-12-12	"	400/135		sl. drag
12:42	A	00 28 E	+24 34	"	7.01	A0	12-12-12	"	400/120		guiding
12:48	C	01 ²⁹ 19 W	+57° 25'	"	5.83	06	12-24	Sp. Bin-Bln	200/34	OVERDEVELOP	guiding
12:52										Dev 9 min @ 68°F MWD	

* baked Sept 24

Dome Temp. 44°

Focus

Dome Temp.

[illegible]

Transparency Conditions

Clouded in from East

1304

[illegible]

* baked Sept 24 (no vaccum for past 24 hrs)
but in dry box

Dome Temp. 6
Focus
Dome Temp.

[illegible]

Dome Temp.

316

[illegible]

Sept 24

Dome Temp. —
Focus 25
Dome Temp. —

Flour Angle
End

Dome Temp.

318

[illegible]

Sept 24

Dome Temp. 3
Focus
Dome Temp. 4

[illegible]

Dome Temp. ...45°F... 93%

320

[illegible]

B²² Sep 28

Date 50th Sep 29-30 1973 Observer R. - Watling Julian Day 2444730

[illegible]

Dome Temp. 45°F 68%

Focus 05 R

Dome Temp. 38°F 63%

Transparency Conditions *excellent*

322

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0345W	+39°45'	3-4'	3.11	Em	12-12-12	Waterloo Prg	800/35		very weak
01432W	+37°33'	5'	6.8	F1 IV	12-12-12	Sp 13 in Waterloo	400/160		fine
								Dev 9mi @ 68°F MWP2	
02405W	+66°54'	4-5	7.08	AO	12-12-12	Vis Bw - Waterloo	400/120		fine
01429W	+57°25'		7.0	B2 III	12-12-12	Sp Bw "	400/160		fine
01425W	+55°50'		5.41	K3 Ib	12-12-12	Vis Bw "	200/100		fl weak
00440W	-07°50'		5.14	10 V	12-12-12	" "	200/100		fine
								Dev 9mi @ 68°F MWP2	
01417E	-23°20'	6	4.08	B5 V	12-12-12	" "	200/60		fine
00409E	+20°55'		5.02	B9	12-12-12	" "	200/60		fine
						6/6 in field			

* baked 28 Sept

Date 30 SEPT/OCT 1 '73 Sun/Mon Observer Blu-Ri McFadden Julian Day 2454111.5
LR-Ri

[illegible]

Focus ... 051K
Dome Temp. ... 40°F 83%

.....excellent

324

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19.13	A	02 ^h 04E	+57°25'		5.83	06	12-12-12	Sp. Bin-Bln	200/100		sl strong
00:16	B	04 ^h 40W	+35°08'	2	9.74	09.72	12-12-12	" "	800/450		sl strong
01:35	C	00 ^h 02E	+55°32'	1-2"	8.88	09.1	12 12 12	LR Bin-Search	800/170	changed focus to 30-R	sl strong
02.30	A	00 ^h 31W	+41°23'	2-3	7.26	08.1	12 12 12	" "	400/125		sl strong
03:48	B	01 ^h 50W	+57°05'		8.4	32.56	12-12-12	" "	800/200		fine
04:54	C	01 ^h 25E	+01°48'	2-5"	8.08	08.1	12-12-12	" "	800/150		fine
05:15	A	<u>02^h51W</u>	+24°08'	2-3	5.1	38p	12 12 12	G1 shell	200/90		fine
05:21	B	02 ^h 18W	+09°44'	"	3.66	88p	12 12 12	Sp Bin - Bln	40/12		fine
05:32	C	01 ^h 43W	+50°16'	"	4.57	A2	18-18	" "	40/17		fine
	B						6-6	no filter			ok.

ms
pg #1

* baked Sep 28
** baked Oct 5

Date Oct 5-6 Fri-Sat 1973

Observer Rak-Tn-Bla

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37509	HD 206267	21 35.9	+57 02	G12	Da0-b*	13/5		18:30	18:44	A	0212E
37510	HD 206874	21 39.9	+28 20	"	"	"	60°	18:59	19:48	C	0115E
37512	b Per	4 10.7	+50 03	"	"	9/7		20:01	20:20	B	0748E
37511	HD 213534	22 26.9	+29 02	"	"	13/5		20:38	21:05	C	1045E
37513	b Per	4 10.7	+50 03	"	IIIaJ	9/7		21:18	21:44	B	0550E
37514	HD 218154	23 00.6	+24 07	"	Da0-b*	13/5		21:54	22:35	A	0013W
37515	HD 198183	20 43.5	+36 07	"	"	13/7		22:38	22:44	C	0240W
37516	HD 206267	21 35.9	+57 02	"	"	9/7		23:00	23:22	A	0225W
37517	b Per	04 10.7	+50 03	"	IIIaJ	"		23:28	23:49	B	0346E
37518	HD 24760	03 51.1	+39 43	"	Da0-b*	"		23:57	23:59	C	0314E
37519	x Per	03 49.1	+30 45	"	Da0-b*	13/5		00:10	00:42	A	0230E
37520	HD 21364	03 21.8	+9 23	"	"	9/5		00:52	00:59	B	0145E
37521	HD 28363	04 23.3	+15 57	"	"	9/3		01:05	02:00	C	0146E
37521T	Cal step wedge		90 sec		Da0-b*	for all Da0-b plates					
37522	b Per	04 10.7	+50 03	G12	IIIaJ	9/7		02:08	02:21	B	0112E
37522T	Cal step wedge		270 sec		"	for IIIaJ plates					

Dome Temp. 54° H=560

Transparency Conditions Excellent

320

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0212E	+57 24	1"2"	5.83	06	10-10-16	Sp Bin-Bln	200/60		Fin
0115E	+28 43	2"3"	6.90	A9/A9	12-12-12	"	400/152		Fin
07 ¹⁴ 08E		3"8"	4.57	A2	12-24	"	200/110		Fin
0045E	+29 27	2-3	6.28	A5	12-12-12	"	200/60		Fin
0550E	+50 16	3"4"	4.57	A2	30-30-30	"	40/45		very weak
0013W	+24 32	"	7.01	A0	12-12-12	"	400/130		sun in Fin
0240W	+36 27	"	4.42	B5E	18-18	"	40/18		Fin
0225W		3"5"	5.83	06	12-12-12	"	200/90		Fin
0346E	+50 16	"	4.57	A2	30-30-30	"	40/40		very weak
0314E		"	2.71	B0-5E	18-18	"	40/15		sl. strong
0230E	+31 01	"	6.0- 6.6	Op	12-12-12	X-10g-Bln	200/70		Fin
0146E	+9 42	2"3"	3.66	B8p	18-16	Sp Bin-Ph	40/12		Fin
0146E	+16 11	3"4"	7.14	F8	12-12-12	"	400/110		Fin
								Dev 9 mi @ 69°F MW 22	
0112E	+50 17	1"2"	4.57	A2	30-30-30	"	40/40		very weak
								Dev 9 mi @ 69°F MW 22	

250

328

Dome Temp.

Transparency Conditions *Excellent*

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00	36E	+35 46	2"	4.04	07	12-24	SP Bin-B _{1/2}	40/19	"prob bad grid"	good strong
00	31E	+35 46	"	"	"	18-18	"	90/15		fine
00	40E	+15 38	"	9.73	FOU	18-18	"	40/25		fine
00	23E	+13 41	2"3'	7.10	F5	12-12-12	"	400/130		fine
01	09W	+9 43	"	3.66	B8p	18-18	"	40/12		fine
00	38W	+50 17	"	4.57	A2	25-25-25	"	40/35	uncertain if uncapped?	
00	56W	"	"	"	"	25-50	"	40/35	Dev 9 min C 684F MW P2	fine
00	14E	+48 17		6.51	B0	12-12-12	"	200/70	approx ending time	fine
									Looked for comet	1/11 5:30
									"no luck"	
									Last 2 plates in separate box,	

baked Oct 5

Dome Temp.
Focus
Dome Temp.

[illegible]

Dome Temp. 50° $17-98\%$

Transparency Conditions *Some cloud*

330

[illegible]

* baked Oct 5

Observer T. H. M. N. S. W. Julian Day 100[illegible]

Dome Temp. 50° N 985

Transparency Conditions *Good - Hazy*

332

[illegible]

* baked Oct 5

Dome Temp. _____
Focus _____
Dome Temp. _____

[illegible]

Dome Temp. *45°*..... *99%*

Transparency Conditions Hazy - then fast low cloud

from East
just like last night

[illegible]

Visitors' Night

Date 1973 Oct 3-14 Sat-Sun Observer Tn-McF Julian Day 2455470.5

[illegible]

336

[illegible]

937
pg #1

* 11 Oct
** evacuated

Date 1973 OCT 14/15 SUN/MON Observer Bla-Tn/Tr-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
37546	HD 213534	22 ^h 26 ^m .9	+29° 02'	G12	IIa-06*	13/.5	58°F	18:23	18:32	A	1242E
37547	HD 190918	20 ^h 02 ^m .2	+35° 31'	"	"	"		18:36	18:46	B	1201E
37548	HDE 339766 IDR Val	20 ^h 40 ^m .7	+26° 30'	"	"	"		18:53	20:54	C	1158W
37549	HD 206267	21:35.9	+57° 02'	"	"	9/.9		20:58	21:22	B	1100W
37550	b Per	04 10.7	+50 03	"	IIIa-J**	9/.7		21:27	22:03	C	1455E
37551	HD 218154	23 00.6	+24 07	"	IIa-06*	9/.5		22:16	22:50	B	103W
37552	HD 28363	04 23.3	+15 57	"	"	9/.3		22:57	23:28	A	1342E
37553	HD 21364	03 21.8	+9 23	"	IIa-J**	9/.9		23:32	23:51	B	1216E
37554	HD 24760	03 51.1	+39 43	"	IIa-06*	9/.7		23:54	23:56	A	1246E
37555	HD 24760	03 51.1	+39 43	"	IIIa-J**	9/.7		23:59	00:05	B	1239E
37556	HD 3651	00:34.2	+20 43	"	IIa-06*	6/.9	56°F	00:21	01:57	A	1237W
37556T	Cal step	wedge	for bated	IIa-0	"	90sec					
37557	HD 27371	04 14.1	+15 23	G12	IIIa-J**	6/.9		02:06	03:45	B	1045W
37557T	Cal step	wedge	for evacuated	IIIa-J**	10min			38 35			
37558	HD 27371	"	"	G12	"	13/.9		03:46	04:30	C	1130W
37559	"	"	"	"	"	18/.9		04:31	05:00	B	1200W

Dome Temp. 57°F H=58%

Focus

Dome Temp.

Transparency Conditions

338
Excellent - some fast cloud
slight rain from small clouds
very strong weather

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 42E	+29 27	3-4"	6.28	A5	12-12-12	Sp. Bin-Bln	200/60	scintillation	fine
00 01E	+35 47	2	7.60	WN 4.5 09.5 Ia	12-12-12	Sp. Bin-Bln	400/130		fine
01 58W	+26 46	2-4"	6.5 4.3	65 BY	12-12-12	Sp. Bin-Bln	800/280	some cloud	WRONG STAR, Sh
01 00W	+57 25	2"	5.83	06	12-12-12	"	200/130	broken 1/2" off J end	whole are weak are fine
04 55E	+50 16	2-4"	4.57	A2	10-20-70	"	40/120	Looked @ R Agr V29.1	whole are cl. weak
01 03W	+24 35	3-4	7.01	A0	12-12-12	"	400/120		fine
03 42E	+16 10	4-5	7.14	F8	12-12-12	"	400/110	close to D	cl. weak weak are cl. weak
02 16E	+9 42	3-4'	3.66	88p	60-60-60	"	40/144		cl. weak
02 46E	+40 00	2-3	2.71	80.5 V	18-18	"	40/16		guiding
02 39E	+40 00	"	2.71	80.5 V	60-60-60	"	40/90+		fine
02 37W	+21 11	"	6.7	100 V	12-12-12	Giant - Ir	200/180		fine
00 45W	+15 39	"	4.65	10-110	90-90	"	40/225	Dw 9min 68°F mwp2 very close to D	whole are weak
01 30W	"	"	"	"	90-90	"	40/225	Dw 9min 68°F mwp2	weak are cl. weak
02 00W	"	"	"	"	90-90	"	40/225		weak

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

[illegible]

Visitors - Ast 200 class looked at ring nebula

* baked Oct 11/73

Date 1973 Oct 15/16 Mon-Tues Observer Hu-Tn Julian Day 2455111.5

[illegible]

Dome Temp. 50° F H=50%

Focus 30-R

Dome Temp. 35 H=80

Transparency Conditions Excellent

cloud by 21^h

342

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18:31	A	03 56W	+42° 42'	4"	5.6	Be	12-12-12	Hd Sp Bin	400/140		Line
19:43	R	01 00W	+15 33	"	6.34	M2II	12-12-12	"	400/300		Line
20:53	R	00 23E	+44 56	2"-4"	7.12	A2	12-12-12	"	400/140		fine
21:34	C	00 04W	-11 38	3'-6"	5.9	B9V	12-12-12	"	200/70	- clouds	fine
										Dev 9min @ 68°F MWR2	
							5/5	no filter			
	A						25 sec	no filter			plate by
22:46	A	00 05W	+73 05	3'-6"	7.52	A2	12-12-12	Hd Sp Bin	400/130	then clear - then clouds	guiding
23:00	B	00 17W	+61 12	2"-4"	5.9	B7V	12-12-12	"	200/70		fine
00:12	A	00 01W	+60 56	3'-4"	5.58	B7V	60-120-120	"	200/400	this was meant to be Ø Per! An unfortunate mixup	plate by fine
00:31	B	01 33E	+09 40		3.66	B8p	12-24	Bin Sp Bin	40/21		guiding
00:40	C	00 17W	+50 42	3"	5.62	B9V	12-24	Hd Sp Bin	200/70		fine
00:51	L	00 56W	+67 58	3'-4"	7.7	F2II	12-12-12	"	400/160	cloud.	fine
										Dev 9min @ 68°F MWR2	plate by

* baked Oct 16

Date 1973 Oct 16/17 Tues-Wed Observer Hu-Tn Julian Day 2455110.5

[illegible]

Transparency Conditions *excellent,
some cloud*

344

[illegible]

13 09 16

Dome Temp. 3

Focus

Dome Temp. 3

Hour Angle
End

148W

Dome Temp. 38° F 75%

Focus

Dome Temp. 38°F 80%

Transparency Conditions *some clads*

346

[illegible]

309 16

Dome Temp. 3
Focus
Dome Temp. 3

Hour Angle End		
09 ^h 54 ^m	+	
10 ^h 20 ^m E		
02 ^h 07 ^m E	+	
03 ^h 19 ^m	+	
11 ^h 43 ^m	+	
01 ^h 09 ^m E	+	
07 ^h 25 ^m E	-	
10 ^h 20 ^m	+	
00 ^h 02 ^m	+	
03 ^h 45 ^m E	+	
12 ^h 57 ^m E	-	
- looked		

Focus 20 K
Dome Temp. 30°F 50%

the good with the
odd card

348

[illegible]

B 0919

Date Sun 09/21 Observer BK -R: Julian Day 2454900.5

[illegible]

Dome Temp. 340F 77%

350

[illegible]

13 Oct 19
evated

Dome Temp. 45
Focus
Dome Temp. 4

[illegible]

352

Dome Temp. 49°F H=18%

Transparency Conditions

Focus

Dome Temp. 40°F 98%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
04 ^h 28 ^m W	+40° 44'	1	5.6	Bc	12-12-12	Hd Lp Bw	200/140		sl. strong
01 ^h 20 ^m E	+57° 25'	<1	5.83	06	12-12-12	Sp Bw Blu	200/140		sl. strong
01 ^h 20 ^m W	+57° 25'	<1	5.83	06	12-12-12	Sp Bw Blu	200/140		sl. strong
02 ^h 00 ^m E	+29° 25'	1	6.28	A5	12-12-12	Sp. B. in Blu	200/60		sl. strong
00 ^h 20 ^m E	-15° 22'		5.8 11.5	gm7cp	3	Redu Don. Blu	800/150		sl. strong
02 ^h 05 ^m W	"		5.8 11.5	gm7cp	3-3-3	"	800/111		sl. strong
02 ^h 06 ^m W	+30° 46'	2	7.52	k3III	none	Quant 7R	20/2.29		sl. strong
00 ^h 54 ^m W	+24° 54'		3.15	k2IIIab	"	"	20/216		sl. strong
01 ^h 36 ^m W	"		"	"	"	"	20/884		sl. strong
						Dev 9mi @ 68°F	mwps	cloudy for fog	
						"	"		

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b 0919
B 0022

Date 1973 Oct 22/23 Mon-Tues Observer Hu-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
37602	HD 142926	15 52.1	+42 51	G12	IIa06*	13/.9	54°F	18:04	18:19	A
37603	"	"	"	"	"	"		18:20	18:34	B
37604	"	"	"	"	"	"		18:35	18:47	C
37605	"	"	"	"	"	"		18:48	19:03	A
37606	HD 190658	20 00.9	+15 13	"	"	13/.5		19:07	20:18	B
37607	HD 216494	22 48.2	-12 09	"	"	"		20:22	20:39	C
37608	HD 214946	22 36.7	+44 29	"	"	"		20:45	21:08	A
37609	HD 225093	23 58.3	+72 36	"	"	"		21:13	21:35	B
37610	HD 11291	01 45.8	+50 18	"	"	"		21:39	21:44	C
37611	HD 15472	02 24.4	+70 30	"	IIa0B	"		21:50	22:25	A
37611 T1	cal step wedge for plates 37602 - 37610				IIa0b	108 sec				
37611 T2	cal step wedge for plates 37611 - 37616				IIa0B	108 sec				
37612	HD 16066	02 29.8	+67 38	G12	"	13/.5		22:30	23:34	B
37613	HD 21364	03 21.8	+09 23	"	"	9/.9		23:42	23:53	C
37614	HD 16440	02 33.2	+68 03	"	"	13/.5		00:00	00:54	A
37615	HD 23838	03 43.1	+44 40			"		00:58	01:11	B

Dome Temp. 56°F 63%Focus 30 Red

Dome Temp.

Transparency Conditions Excellent, then hazy....

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19 A 14 ^h 12W	+42° 41'	1	5.6	Be	12-12-12	Hd Sp Bin	200/140		fine
8:34 B 4 ^h 28W	"	"	"	"	12-12-12	"	200/140		fine
8:47 C 14 ^h 40W	"	"	"	"	12-12-12	"	200/140		fine
9:03 A 14 ^h 56W	"	"	"	"	12-12-12	"	200/140		fine
10:19 B 22 ^h 01W	+15° 30'	3	6.34	M2III	12-12-12	"	200/150		excellent
10:39 C 20 ^h 24E	-11° 40'	2-3	5.9	B9II	12-12-12	"	200/75		fine
11:01 A 00 ^h 17W	+44 55	2"	7.12	A2	12-12-12	"	400/150		fine
11:35 B 00 ^h 39E	+73° 04'	2-3	7.52	A2	12-12-12	"	400/150		fine
11:44 C 02 ^h 19E	+50° 41	1-2	5.62	B9III	12-24	"	200/75		fine
12:25 A 22 17E	+70° 52'	1"-2"	8.0	B4e	12-12-12	"	400/150		good fine
								Dec 9 ^{mi} 668° = MW20	
								" " " "	
1:34 B 21 ^h 15E	+67° 59'	1-2	7.7	F2II	12-12-12	Hd Sp Bin	400/175	haze developing	fine
1:53 C 14 ^h 4E	+09° 13'	1-2	3.66	B8 _p	12-12-12	Bin Sp Bin	200/105		fine
1:54 A 10 ^h 2W	+68° 24	1-2	8.0	B7III	12-12-12	Hd Sp Bin	400/150		good fine
2:00 A 49E	+24 55	1-2	5.79	g6-5	12-12-12	"	200/90	continues next book	fine

355

Date..... Observer..... Julian Day.....

[illegible]

356

Ending Time
E.S.T.

357

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358

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