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①

SM = STEVEN MORRIS - MOR
W+n = MICHAEL WARKENTON

blue

broken pens

red

(2)

6

ility

3

Home Temp. _____

Focus _____

Done Temp.

Four Angle	D
End	

1

1

10

1

[illegible]

10

...

1

1

1

1

1

1

10

[illegible]

1	
---	--

10

--	--

1

100

100

10

10

10

Dome Temp.

Transparency Conditions

4

6

[illegible]

5

Dome Temp
Focus
Dome Temp

Hour	Angle	End
03	23W	
02	1E	
00	10W	
0	07W	
	019	
00	1E	
0	15E	
	019	
0	15W	

Dome Temp. 77°F

11- 728

Focus 10-R

Dome Temp. 71°F

11-8870

Transparency Conditions *Excellent as usual*

6

[illegible]

Date July 30-31 1975 Wood Glen Observer Tha - Ri Julian Day 175.5

[illegible]

Dome Temp.78°F..... 82%

Left out of Box #5

8

[illegible]

Date Jul 31 / Aug 1 1975 - Thur - Fri Observer Bert R. Julian Day 19750731.5

[illegible]

Date Aug 1-2 Fri/Sat Observer Gn - Ri Julian Day.....

[illegible]

Dome Temp. 90°F 68%Focus 30 BDome Temp. 84°F 84%Transparency Conditions hazy

12

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1	A	01 ^h 38W	-03°13'	1-2'	3.50	A0V	22-22-22	Sp Bin Bl	40/70	at right side of box	
3	B	01 ^h 44W	+32°30'		6.12	A3V	7-7-7	"	400/140		
4	C	01 ^h 15W	+40°05'		5.72	dF8	7-7-7	"	400/110		
50	A	01 ^h 40W	+14°34'		5.97	Am	7-7-7	Ecl Bin Bl	400/140		
34	B	00 ^h 51W	+35°40'		6.83	WN 4.5 +09.5	7-7-7	Sp Bin Bl	400/221	clouds	
8	C	03 ^h 16W	+58°48'		4.93	A1V	22-22-22	"	80/140	with side of Box BROKEN 4 PIECES	
	A-				6.9	04F	7	"	400/	fairly extensive cloud - capped 01:42 02:00	
		219 @ 68°F 7 min Aug 2									
										with side of Box	
54	A	01 ^h 55W	+28°50'		4.83	38V	22-22-22	Alg. 1 Std Star	800/140		

13

Date Aug 4-5 1975 Mon-Tues Observer Gn-Ri Julian Day 172.5

Dome Temp. 82°
Focus 203
Dome Temp. 74

[illegible]

Dome Temp. 740 F 80%

Transparency Conditions clears within the old clouds
coming up from the south

14.

[illegible]

Date Aug 7-8 / 75 Thurs-Fri Observer But-In Julian Day 175.5

[illegible]

Dome Temp. ... 63°F H- 8270

Transparency Conditions *Excellent*

16

Aurora low in North most of night

[illegible]

17pg #1

Date Aug 8-9/75 Fri-Sat Observer Lne-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 Est
39657	HD 149881	16 32.4	14 40	G12	IIa-Oe	13/5	75°F	20:21	21:00	A	01 14W
39658	HD 185423	19 33.8	3 09	"	"	"		21:06	21:36	B	01 11E
39659	HD 149881	16 32.4	14 40	"	"	"		21:42	22:15	C	02 29W
39659T	Cal step wedge		90sec		"						
	HD 205021	21 27.4	+70 07	G12	"	9/7		22:21	22:23	A	
39660	HD 205021	21 27.4	+70 07	G12	IIa-O-e	9/7		22:28	22:32.5	A	02 06E
39661	"	"	"	"	"	"		22:34	22:38	C	02 06E
39662	"	"	"	"	"	"		22:42	22:45	A	01 53E
39663	"	"	"	"	"	"		22:53	22:58	B	01 40E
39664	"	"	"	"	"	"		23:04	23:08.5	C	01 29E
39665	"	"	"	"	"	"		23:10	23:14	A	01 23E
39666	"	"	"	"	"	"		23:19	23:23	B	01 16E
39667	"	"	"	"	"	"		23:34	23:37	C	01 02E
39668	"	"	"	"	"	"		23:41	23:44.5	A	00 54E
39669	"	"	"	"	"	"		23:50	23:54.5	B	00 43E
39670	"	"	"	"	"	"		23:58	00:03	C	00 36E

Dome Temp. 7Focus 12Dome Temp.

Dome Temp. 76°F 11=5670Focus 12-BDome Temp. Transparency Conditions Excellent -

15

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00	A	01 14 W	14 40	1.2"	6.59	B2V	7-7-7	B Cephei	200/70		fine good
36	B	01 11 E	3 27	2"	6.36	B4	7-7-7	"	200/70	Looks nebulous to North of Star?	fine good
5	C	02 29 W	14 40	2-3"	6.59	B2V	7-7-7	"	200/60		fine
23	A		70 30		2.93	B2III	12-12	B Cep	40/19	Shattered	
32.5	A	02 06 E	70 30	2"	2.93	B2IV	12-12	B Cep	40/18		fine medium
8	C	02 00 E					12-12	"	40/18	} possible mixup	fine medium
45	A	01 53 E					12-12	"	110/20		fine medium
58	B	01 40 E					12-12	"	40/26		fine medium
08.5	C	01 29 E		1-2"			12-12	"	40/18	fouling up - may have	fine medium
4	A	01 23 E		"			12-12	"	40/18	fogged odd plate)	fine
23	B	01 16 E		"			12-12	"	40/20	Eliminated pulley system	fine
37	C	01 02 E					12-12	"	40/21	(Taking our chances)	fine
14.5	A	00 54 E	70 30	2-3"			12-12	"	40/19		fine
4.5	B	00 43 E		1			12-12	"	40/21		fine medium
03	C	00 36 E		1			12-12		40/18		fine

19
pg #2

* New Batch

Date Aug 8-9/75 Fri-Sat Observer Lne-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
39671	HD 205021	21 27.4	40 07	612	IIa-oe	9/7		00:15	00:18	A	00:26E
39672	"	"	"	"	IIa-oe*	"		00:20	00:24	B	00:15E
39673	"	"	"	"	"	"		00:27	00:30	C	00:19E
39674	"	"	"	"	"	"		00:35	00:39	A	00:0
39675	"	"	"	"	"	"		00:41	00:45	B	00:06W
39676	"	"	"	"	"	"		00:51	00:56	C	00:17W
39677	"	"	"	"	"	"		01:02	01:06	A	00:27W
39678	"	"	"	"	"	"		01:12	01:16.5	B	00:38W
39679	"	"	"	"	"	"		01:26	01:29.5	C	00:51W
39680	"	"	"	"	"	"		01:35	01:37.5	A	00:59W
39681	"	"	"	"	"	"		01:44	01:47.5	B	01:09W
39682	"	"	"	"	"	"		01:57	02:01	C	01:24W
39683	"	"	"	"	"	"		02:05	02:09	A	01:32W
39684	"	"	"	"	"	"		02:13	02:17	B	01:40W
39685	"	"	"	"	"	"		02:22	02:26.5	A	01:50W
39686	"	"	"	"	"	"		02:30	02:32	B	01:56W

Dome Temp. 6Focus Dome Temp.

Dome Temp. 64° F H=82%

Transparency Conditions Photometric

Focus

Dome Temp.

over, there's more

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3	A	00 26 E	70 30		2.93	B2 II	12-12	β Cephei	40/20		fine sun
4	B	00 15 E	"		"	"	12-12	"	40/20		"
0	C	00 9 E	"		"	"	12-12	"	40/20		"
39	A	00 0	70 30		"	"	12-12	"	40/18		fin
45	B	00 06 W	"		"	"	12-12	"	40/18	broken lpc	fine sun
56	C	00 17 W	"		"	"	12-12	"	40/18		"
6	A	00 27 W	"		"	"	12-12	"	40/19		"
16.5	E	00 38 W	"		"	"	12-12	"	40/18		"
24.5	C	00 51 W	"		"	"	12-12	"	40/18		"
37.5	A	00 59 W	"		"	"	12-12	"	40/18		"
7.5	E	0 10 9 W	"		"	"	12-12	"	40/20	broken. at one end	"
01	C	01 24 W	"		"	"	12-12	"	40/20		fin
09	A	01 32 W	"		"	"	12-12	"	40/25		fine sun
17	B	01 40 W	"		"	"	12-12	"	40/20		"
26.5	A	01 50 W	"		"	"	12-12	"	40/19		"
32	B	01 56 W	"		"	"	12-12	"	40/18		"

Date Aug 8-9/75 Fri-Sat Observer Lne-Tn Julian Day

[illegible]

22

Focus

Dome Temp.

[illegible]

2 visitor groups

Tried TV guiding.

Date Aug 9-10, 1975 Sat-Sun Observer BK-Tn (Re) Julian Day

[illegible]

Dome Temp. 77°F H = 82%

Transparency Conditions *Hazy to cloudy*

24

[illegible]

25

Date Aug 10-11, 1975 Sun/Mon Observer Fj/tn Julian Day 175

[illegible]

Dome Temp. 8
Focus 12-1
Dome Temp. 26

Dome Temp. 80° H = 90%

25

[illegible]

- * Just out of Frig
- ** new batch Do-De

Donne Temp.

Focus

Dome Temp. _____

Hour Angle
End

02^h36 w/1

0011 E4

0026W

00 52W

01 17W

01 30E +

0114E-

Dome Temp. 77°F H=7870

Focus 10-B

Dome Temp. 67°F H=8070

Transparency Conditions hazy

A Few good meteors (Perseids)

28

Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02	A	02 ^h 38 W	+14 54	2-3'	8.10	B5 II	7-10	Sp Bin Bln	800/65	clouds [*] push (at left) Heavily	
047	A	0011 E	+42 16	3-4	3.63	B6p	^{no filter} 3-4-3	Shell +	40/120	hazy - some cloud	
024	B	0026 W	"	2-3	"	"	3-4-4	"	40/135	in middle of Box	
051	C	0052 W	"	2"	3.63	B6p	22-22-22	Shell +	40/60	maybe fogged } At Far right of Box	
016	A	0117 W		2-4"	3.63	B6p	22-22-22	Shell +	40/100		
049	B	0130 E	+41 22	3-4"	6.15	F0	7-7-7	Accident	400/140	wrong star - should be HD 4622	
08	C	0114 E	-12 16	3-6'	4.85	B9 V	7-7-7	sp Bin Bln	200/70		

Dome Temp.

Saw a few *Berserids* only after 10^h

[illegible]

nl pg #1

Date August 13/14 Wed-Thurs Observer Tr Gn 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
39706	HD 116656	13 19.9	+55 27	G12	IIIa-Je	9/9	75°F	20:35	20:43	A	04°20'W
39707	HD 149881	16 32.4	+14 40	"	IIaO-E	13/5		20:52	21:36	B	52°10'W
39707T1	Cal step wedge		90sec		"	for 39707-					De
39707T2	Cal step wedge		180sec		IIIa-Je	for 39706					"
39708	HD 170000	18 22.2	+71 17	G12	IIIa-Je	9/5		21:42	22:08	C	0056W
39709	HD 214993	22 37.0	+39 43	"	IIaO-C	13/5		22:16	22:21	A	0310E
39710	"	"	"	"	"	"		22:26	22:32.5	C	0258E
39711	"	"	"	"	"	"		22:34	22:40	C	0251E
39712	"	"	"	"	"	"		22:44	22:50	A	024E
39713	"	"	"	"	"	"		22:53	22:59	B	0232E
39714	"	"	"	"	"	"		23:04	23:10	C	0221E
39715	"	"	"	"	"	"		23:14	23:19.5	A	021E
39716	"	"	"	"	"	"		23:26	23:32	B	0158E
39717	"	"	"	"	"	"		23:36	23:43	C	0147E
39718	"	"	"	"	"	"		23:48	23:54.5	A	0146E
39719	"	"	"	"	"	"		00:02	00:08	B	0122E

Dome Temp. 80°F H=8770

Focus 10-B

Dome Temp.

Transparency Conditions Hazy Lightning in South

-Excellent by 23^h 783H

Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:43	A	04 ^h 28W		2"	2.27	A2V	22-22-22	A 225*	40/100	uneven guiding?	fine guidy
1:30	B	02 ^h 10W	+14 41	2-3	6.59	B2V	7-7-7	B Cephe	400/140	* } At right of Box * } with 3 9708-19	fine
		Dec Aug 14	D19	9mi	Q68F						
		"	"	1mi	"						
2:08	C	00 56W	+71° 24'	2-3"	9.18	ApSi	22-22-22	Sp Bin-B14	40/70	some cloud in north	pl wk.
2:21	A	03 10E	+40° 10'	1-2"	5.22	B2 III	7-14	B Cephe	40/60		fine
2:32.5		02 58E	"	"			12-12	"	40/60	maybe fogged	fine guidy
2:40	C	02 ^h 51E					12-12	"	40/60		fine
2:50	A	02 41E					12-12	"	40/60		fine
2:59	B	02 32E		3"			12-12	"	40/60		fine
3:10	C	02 21E					12-12	"	40/60		fine
3:19.5		02 01E					12-12	"	40/63		fine
3:22	B	01 58E		2-3			12-12	"	40/60		fine
3:43	C	01 47E		"			12-12	"	40/60		fine
3:54.5	A	01 46E?		"			12-12		40/60		fine
4:03	B	01 22E					12-12		40/60		fine

33Pg 42

* Evacuated only for 1.3 hrs
 ** Evacuated for 3 hrs

Date.....Observer.....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
39720	HD 214993	22 37.0	+39 43	G12	Na-O [*]	13/5		00:13	00:20	A	0110E
39720T	Cal step wedge		90sec								
39721	HD 214993	22 37.0	+39 43	G12		13/5		00:23	00:29	B	0101E
39722	"							00:34	00:41	C	0049E
39723	"							00:47	00:53	B	0037E
39724	"							00:58	01:03	A	0027E
39725							72°	01:07	01:14	B	0016E
39726								01:17	01:24	C	0005E
39727								01:28	01:34	A	0009W
39728								01:47	01:53	C	0023W
39729								01:55	02:02.5	A	0033W
39730								02:05	02:12	B	0043W
39731					Na-O ^{**}			02:16	02:22	C	0053W
39732								02:25	02:31.5	A	0002W
39733								02:37	02:44	B	0014W
39734								02:47	02:54	C	0029W

Dome Temp. —

Focus —

Dome Temp. —

Dome Temp.

Transparency Conditions Excellent

Focus

Dome Temp.

ing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20	A	0110E			5.10	B2II	13-13	B Cephei	40/70	In 2nd Box	fin
			Dec Aug 14	D19	9 min @ 68°F					↓	
29	B	0101E			5.1	B2II	13-13	B Cephei	40/70		fin
4	C	0049E					13-13		40/70		fin
53	C	0037E					13-13		40/70		fin
58	A	0027E					13-14		40/70		fin
54	B	0016E					13-13		40/74		fin
24	C	0006E		2-3			13-13		40/71		fin
134	A	0004W					13-13		40/73		fin
153	C	0023W					13-13		40/70		fin
155	A	0033W					13-13		40/70		fin
12	B	0043W					13-13		40/70		fin
222	C	0053W					12-12		40/60		fin
2315	A	0002W					12-12		40/60		fin
242	B	0014W					20/3		40/60		fin
254	-	0024W					12-12		40/60		fin

Dome Temp.

36

Long Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:22	A	01 33W		2-4"	5-10	B2II	12-12	β Cephei	40/60		fine
00:28	A	01 38W		2-3	3.63	B6p	22-22-22	Shell *	40/100	*Put to left of box #1	fine guide
		Dev Aug 14 D19		9 min	66	68°F					
00:58	B	02 08W			3.63	B6p	3-3-4	Shell *	40/100		fine
		Dev Aug 14 D19		5 min	66	68°F					

Date August 15/16 Fri/Sat Observer Th. Gn Julian Day 2444710.5

[illegible]

Dome Temp.

38.

[illegible]

1991 Tour this Aug 16-17

Date Aug 17-18 Sun-Mon / 75 Observer Fgi-Tn Julian Day 2444580

[illegible]

Dome Temp. 78°F H-896Focus 10-8

Dome Temp.

Transparency Conditions foggy & some - light

40

need new battery for light

Obs. Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:23	A	01 17E	+35 49	2-3"	6.83	WN4.5 +09	8-5-5	Fp Thesis	400/235	#1	
		Dew Aug 18	D19	9mm	67°F						
2:52	R	00 13W	+35 51	3-2"	7.31	B1	6-6-6	"	400/180	#3 windy	
2:56	C	01 57W	"	3-3"	7.76	06f	6-6-6	"	400/180	#4 shattered 1pc saved	
3:2	A	4:37 W		2-4	8.84	B1	6-6-6	"	800/183	#7 broken 2pieces	
3:16	E	3:25W		3-6"	7.83	B8V	22-1222	Algol comp*	40/60		
		Dew Aug 18	D19	7mm	67°F						

41

Date Aug 18/19 Monday-Tuesday Observer Tn Gm 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.	How Angle Est
39744	HD 116656	13 ^h 19 ^m .9	+55° 27'	G 12	IIIaJ-e	9/.9	69°	19:54	19:59	A	04" 06W+
39744 T	Cal step wedge		180sec		"						Down
39745	HD 137569	15 ^h 21 ^m .7	+15° 03'	"	IIaO-e	13/.3		20:10	21:53	B	03" 5W+
39745 T	Cal step wedge		90sec		"						Down
39746	HD 212097	22 ^h 16 ^m .7	+27° 50'	G 12	IIaJ-e	9/.5		21:58	22:48	A	0202E+
39747	"	"	"	G 16	IIaF-e*	"		22:57	23:23	A	0128E
39747 T	Cal step wedge		5min		"						Down
39748	HD 212097	22 16.7	+27 50	G 16	"	9/.5		23 23	00:28	B	0622E
39748 T	Cal step wedge		5min		"						Down
39749	HD 217675	22 57.3	+41° 47'	"	"	"		00:31	00:52	A	0039E+
39750	"	"	"	G 12	IIaJ-e	9/.9	63°F	01:01	01:18	B	0013E
39751	HDE 235679	21 55.0	+54° 01'	"	IIaO-e	18/.3		01:30	04:18	A	0350W+
39752	HD 15130	2 21.1	-12° 44'	"	IIIaJ-e	13/.5		04:23	04:49	B	0005E-

Dome Temp. 6

Focus 0

Dome Temp. 6

Dome Temp. 66°F H: 6070

Transparency Conditions clear (some cloud)

Focus 0-

Dome Temp. 53°F H: 9270

ing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
59	A	04 ⁿ 06W	+55 08	2"	2.27	A2V	22-22-22	A225 *	40/100		
		Dew Aug 19 D19 7 min @ 68°F									
53	B	03 ⁿ 57W	+14 53	2-4'	8.10	B5 III	7-7-7	Sp Bin Blen	400/101	some cloud	
		Dew Aug 19 D19 9 min @ 68°F									
48	A	0202E	+28 18	2-4	4.83	B8 V	22-22-22	Algo/ Std *	40/60	maybe incorrectly labelled "45"	
23	A	0128E	"	"	"	"	no filter 3-5	"	40/30	* 51 suspicion plate maybe II40	
		Dew Aug 19 D19 5 min @ 68°F									
28	B	0022E	"	4-2'	4.83	B8 V	3-4-3	Algo/ Std	40/100	(All LtoFs at Far right of Ex Box)	
		Dew Aug 19 D19 5 min @ 68°F									
52	A	0039E	+42 17	2-3	3.63	B6p	3-3-4	Shell *	40/100		
18	B	0013E		"	"	"	22-22-22	"	40/100		
47	A	0350W	+54 28	2-4	9.21	B2.5 I66	66-22	Sp Bin Ben	800/240	Bad Fld; one drawn	
49	B	0005E	-12° 17'	"	4.85	B9 IV	12-22	"	40/40	well into dawn	

Transparency Conditions very good - thin cirrus

Dome Temp. ... 58°F ... $H = 787$ [illegible]

45
#1Date Aug 20/21 wed-Thurs Observer Luo - 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
39761	HD 170000	18 22.2	71. 17	G12	IIIa-Je	9/1.5	7000	20:05	20:34	A	01°11'E
39762	HD 195556	20 26.9	48 37	G12	IIIa-Je	9/1.5		20:49	20:58	B	01°54'E
39763	HD 149881	16 32.4	14 40	G12	IIIa-Je	13/1.5		21:09	21:56	C	02°56'W
39764	HD 199661	20 53.5	56 30	"	"	13/1.5		22:04	22:25	A	03°54'E
39765	HD 195556	20 26.9	48 37	"	"	9/1.5		22:30	22:38	B	00°11'E
39766	HD 190918	20 02.2	35 31	"	"	13/1.5		22:45	23:31	C	04°05'W
39766T1	cal stripwise in plate 39761				IIIa-J-E		1800	Dev 7 min	0 68 D19		
39766T2	cal stripwise in plate 39762-39772				IIIa-J-E		900	" 9 min	0 68 F219		
39767	HD 199661	20 53.5	56 30	"	"	13/1.5		23:37	23:56	A	05°32'W
39768	HD 195556	20 26.9	48 37	"	"	9/1.5		23:56	00:05	B	01°14'W
39769	HD 199661	20 53.5	56 30	"	"	13/1.5		00:14	00:30	C	01°11'W
39770	HD 195556	20 26.9	48 37	"	"	9/1.5		00:34.5	00:45	A	01°54'W
39771	HD 199661	20 53.5	56 30	"	"			00:50	01:09	B	01°50'
39772	HD 886	00 8.1	14 38	"	"	9/1.9		01:19	01:22	C	01°11'E
39773	"	"	"	"	"	"		01:25	01:28	A	01°26'E
39774	"	"	"	"	"	"		01:29.5	01:33	B	01°01'E

Dome Temp. 68°F 60%

Focus 0

Dome Temp.

Transparency Conditions ... scattered clouds I find
the good

46

What happen to the flanklight

ing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
24	A	0411E	+71°23	3'	4.18	ADS	22-2222	Sp. Bin-Blu	40/70	clouds not visible Bay #2	fine
58	B	01454E	+48°55'	3	4.94	B2V	7-77	P Cephei	200/70		fine
56	C	02458W	+14°39	3	6.59	B2V	7-77	"	400/140	clouds	fine
25	M	00454E	+56°53'	3	6.23	B3	7-77	"	400/140	" BROKEN 2 pieces	
38	A	00415E	+48°58'	3	4.94	B2V	7-77	"	200/70		sun day at sky
31	C	04405W	+35°50'	3	6.83	WV4.5 +09	7-77	Egi Thesis	400/220		
										into side of Bay #2	
50	A	00432W	+56°53	3	6.23	B3	7-77	P Cephei	400/140		fine
05	B	01414W	+48°57	3	4.94	B2V	7-77	"	200/70		sun day at sky
30	C	01411W	+56°53	3	6.23	B3	7-77	"	200/70		fine
45	A	01454W	+48°57		4.94	B2V	7-77	"	200/70		sun day at sky
09	B	01450	+56°53'		6.23	B3	7-77	"	200/70		fine
22	C	01411E	15° 10		2.83	B2 IV	7-14	"	30/15		sun day at sky
28	A	01406E	"		"	"	10-10	"	20/15		"
33	B	01401E	"		"	"	11-10	"	20/15		"

47
#2

* New Batch

Date Aug 20-21 Wed-Thurs Observer Che-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
39775	HD 886	00 8.1	14 38	G12	Ilaoe	9/1.9		01:35	01:38	C	00°56E
39776	"	"	"	"	"	"		01:41	01:44	A	00°51E
39777	"	"	"	"	"	"		01:45.5	01:48	B	00°46E
39778	"	"	"	"	"	"		01:55	01:58	C	00°36E
39779	"	"	"	"	"	"		02:05	02:11.5	A	00°33E
39780	"	"	"	"	"	"		02:16	02:21	B	00°13E
39781	"	"	"	"	"	"		02:29	02:33	C	00°01E
39783	"	"	"	"	"	"		02:41	02:48	A	00°14W
3978371	cal sky wedge	for plates 39773-39783			Ilaoe						
39784	HD 886	00 8.1	14 38	* G-12	Ilaoe	9/1.9		02:52	02:56	B	00°23W
39785	"	"	"	"	"	"		03:04	03:08	C	00°35W
39786	"	"	"	"	"	"		03:12	03:17.5	A	00°44W
39787	"	"	"	"	"	"		03:20	03:23	B	00°50W
39788	"	"	"	"	"	"		03:28	03:32.5	C	00°59W
39789	"	"	"	"	"	"		03:35	03:38	A	01°05W
39790	"	"	"	"	"	"		03:43	03:47	B	01°12W

Dome Temp

Focus

Dome Temp

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:38	C	00 ^h 56E	15° 10		2.83	B2 IV	10-10	Blephai	20/15		seeing strong
1:44	A	00 ^h 51E	"		"	"	10-10	"	20/15		"
1:48	B	00 ^h 46E	"		"	"	10-10	"	20/15		"
1:53	C	00 ^h 36E	"		"	"	12-12	"	20/15	BROKEN 2 pairs	"
1:55	A	00^h23E	"		"	"	12-12	"	20/15	broken + stuck in exposed box is forced	"
1:57	B	00 ^h 13E	"		"	"	12-12	"	20/15	near in numb. in book	"
1:53	C	00 ^h 01E	"		"	"	12-12	"	20/15	times of plates should be correct.	"
1:48	A	00 ^h 14W	"		"	"	12-12	"	20/15		"
2:56	B	00 ^h 23W	"		2.83	B2 V	12-12	"	20/15	exposed Box #2	strong
3:08	C	00 ^h 35W	"		"	"	12-12	"	20/15	↓	"
3:17	A	00 ^h 44W	"		"	"	12-12	"	20/15		"
3:23	B	00 ^h 50W	"		"	"	12-12	"	20/15		"
3:25	C	00 ^h 59W	"		"	"	12-12	"	20/15		seeing strong
3:38	A	01 ^h 05W	"		"	"	12-12	"	20/15		"
3:47	B	01 ^h 13W	"		"	"	12-12	"	20/15		"

Date Aug 20-21 Wed Thurs Observer Lee-Ri Julian Day 174.5-175.5

[illegible]

50

Transparency Conditions

Dome Temp.

Log Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
54	C	01 ^h 20 W	+15° 10'		2.83	B2 IV	12-12	B Caplain	20/15		sun in sting
1401	A1	01 ^h 27 W	"		"	"	12-12	"	20/15		"
1445	B	01 ^h 40 W	"		"	"	12-	"	20/1	clouds again	"
			Dec D19	9mi	6689						

51

Date Aug. 22/23 Fri/Sat Observer Gm 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
39794	HD 116656	13 ^h 19.9	+55° 27'	G12	IIIaJ-e	9/1.9	68°F	19:52	19:59	A	04 ^h 21 ^m +
39795	HD 147835	16 19.1	+32° 34'	"	IIaO-e	13/1.5		20:08	20:33	B	01 ^h 56 ^m -
39796	HD 16132.1	17 39.7	+14° 27'	"	IIaO-e	13/1.5		20:37	21:01	B	01 01 ^m +
39797	HD 167771	18 11.6	-18° 30'	"	"	"		21:07	21:52	C	01 ^h 49 ^m -
39794T	cal step wedge				IIIaJ-e			180 sec			Dev D ^h
39797T	cal step wedge				IIaO-e			90 sec			
39798	HD 170000	18 ^h 21.0 ^s	+71° 17'	G-12	IIIaJ-E	9/1.5		21:58	22:23	A	01 ^h 41 ^m -
39799	HD 170073	18 ^h 22.5	+58° 45'	G-12	IIIaJ-E	13/1.5		22:27	23:06	B	02 28 ^m V
39800	HD 190918	20 ^h 02.2	+35° 39'	"	IIaO-L	13/1.5		23:10	00:16	C	01 ^h 56 ^m +
39801	HD 212057	22 ^h 16.7	+27° 50'	"	IIIaJ-E	9/1.5		00:22	01:07	A	00 ^h 34 ^m -
39802	"	"	"	G-16	IIaJ-e	9/1.5		01:15	02:12	C	01 ^h 38 ^m -
39803	HD 217675	22 ^h 57.3	+41° 47'	"	IIaJ-e	"		02:15	02:38	A	01 41 ^m -
39804	"	"	"	G12	IIIaJ-e	9/1.5		02:48	03:06	C	01 ^h 51 ^m -
39805	HD 212057	22 16.7	+27° 50'	"	"	9/1.9		03:15	03:52	A	02 31 ^m -
39806	HD 24710	3 ^h 51.1	+39° 43'	"	"	9/1.5		04:04	04:07	C	02 45 ^m -
39807	HD 24712	3 ^h 52.5	+35° 30'	"	"	"	60°	04:22	04:40	A	01 31 ^m -

Dome Temp. 70°

Focus 0

Dome Temp.

Dome Temp. 70°F 72°70

Focus D

Dome Temp.

Transparency Conditions thin cloud → clear

32

Timing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:37	A	04 ^h 21 W	+55° 08'		2.27	A2V	22-22-22	A 225 *	40/100	* at far right of box	fine
1:33	B	01 ^h 56 W	+32° 30'	2"-3"	6.18	A3V	7-7-7	Sp Bin Bln	400/140		fine
1:33	B	01 04 W	+14° 32'		6.07	A m	7-7-7	Ecl Bin Bln	400/140		fine
1:52	C	01 ^h 21 W	-18° 20'		6.63	07 III	7-7-7	Sp Bin Bln	400/140	broken 2 pieces	fine
		Dew Dn 7mi @	69°F							* at right of box	
2:23	A	01 ^h 47 W	+71° 24'		4.18	ApSi	22-22-22	Sp Bin - Bln	40/24		fine
3:06	B	02 28 W	+58° 51'		4.93	A1V	22-22-22	" "	40/71		fine
3:16	C	01 ^h 56 W	+35° 40'		7.60	WN 4.5 + 095 Ib	7-7-7	Sp Bin Bln	400/220		
4:07	A	00 ^h 34 W	+28-17°		4.83	B8V	22-22-22	Alcol sid Bln	40/71	* Def e by mistake	fine
4:12	B	01 ^h 38 W	+28° 17'		"	"	3-3-3 10 filter	"	40/100	middle of B.	fine
4:38	C	01 ^h 24 W	+42° 15'		3.63	B6p	3-3-3	Shell *	40/100	"	fine
4:40	C	01 ^h 51 W	"		"	"	22-22-22	"	40/100	right side weak one	fine
4:52	A	03 ^h 17 W	+28° 17'		4.83	B6V	22-22-22	Alcol sid Bln	40/100	right side	weak
4:52	C	02 ^h 04 E			2.71	B0.5V	22-44	Sp Bin Bln	40/130	right side	weak
4:52	A	01 30 E			4.04	07	22-22-22	"	40/70	right side	fine

Focus

Dome Temp. 50°F

Transparency Conditions

54

[illegible]

Date Sun. Mar. Aug. 24-25 1975 Observer Bd-R. Julian Day 172

[illegible]

Dome Temp. 76°F 98%

Transparency Conditions less

56

[illegible]

Dome Temp. 78°F 97%

Transparency Conditions *Large with clark at first*

58

[illegible]

Date Tues/Wed Aug 26/27

Observer..... Re-Ri

Julian Day

[illegible]

Dome Temp. 63°F 85%

poor sewing

60

[illegible]

Date Wed-Thurs Aug 27-28 Observer Rc-Tn Julian Day 174.5

[illegible]

Dome Temp. 60°F 82%

82

[illegible]

63 pg #1

Date Sat-Sun Aug 30-31 Observer Re-Tn Julian Day

Plate No.	Object	R.A. 1900 1975	Declination 1900 1975	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
39830	Nova Cyg 75	21 10.9	+47 58	G12	Ma-Je	9/9	64°F	20:04	20:37	A	0217E
39830 T	Cal step	wedge	180sec		Ma-Je	for	39830				
39831	Nova Cyg	21 10.9	+47 58	G16	IIa-Fe	9/9		20:45	21:04	B	0148E
39831 T	Cal step	wedge	5min		IIa-Fe	for	39831				
39832	Nova Cyg	21 10.9	+47 58	G12	IIIa-Fe	"		21:10	21:53	A	0106E
39833	"	"	"	"	"	"		21:56	23:04	C	0007W
39833 T	Cal step	wedge	180sec		"	for	39832, 33, 36, 37, 39, 41, 44				
39834	Nova Cyg	21 10.9	+47 58	G16	IIa-Fe	13/9		23:15	23:54	B	0057W
39834 T	Cal step	wedge	5min		IIa-Fe	for	39834, 35, 38, 40, 43,				
39835	2 Cyg	20 40.6	+45 11	G16	"	13/9		23:58	00:12	A	0148W
39836	"	"	"	G12	IIIa-Je	13/9	62°F	00:17	00:25	C	0201W
39837	Nova	21 10.9	+47 58	"	"	"		00:28	00:54	A	0201W
39838	"	"	"	G16	IIa-Fe	"		01:00	01:10	C	0216W
39839	Nova Cygni	"	"	G12	IIIa-Je	"		01:15	01:56	A	0302W
39840	"	"	"	G16	IIa-Fe	"		02:02	02:19	B	0325W
39841	"	"	"	G12	IIIa-Je	"		02:26	02:51	B	0357W

Dome Temp. 6

Focus 11

Dome Temp.

Dome Temp. 68°F H=9770

Focus 11-R

Dome Temp.

Transparency Conditions Bad

64

ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:37	A	02 17 E	$+48^{\circ}08'$	2-5'	~ 2	~ 6	22-22-25	Novu	40/160	Cloud from SE	
										(Dev 7 min @ 68° D-19)	
1:04	B	01 49 E	"	2-3'	~ 2	~ 6	3-3-3		40/100	" " "	
										(Dev 5 min @ 68° D-19)	
1:53	A	01 00 E	"	2-4"	~ 2	G	22-22-22		40/300	Broken 2pc saved	
3:04	C	00 07 W	48 08	2-3'	~ 2	~ 6	22-22-22		40/300	clear - (sl Fainter?) haze	
3:41, 44										(Dev 7 1/2 min @ 67°F D-19)	
3:54	B	00 57 W		3-4	22	G	3-3-3	no filter	40/100	* Altar right of Box	
										(Dev 5 1/2 min @ 67° D-19)	
01:12	A	01 48 W			1.3	A2p	3-3-3	Std	40/200	*	
1:25	C	02 01 W			1.3	"	22-22-22	"	40/100	*	
01:54	A	02 01 W		"	~ 1.5		22-22-22	Novu	40/300	*	
1:10	C	02 16 W					no filter 5-2-		40/100	* 1/2 broken off	
1:56	A	03 02 W		2-3		N	23-22-20		40/300	1" broken off	
2:19	B	03 25 W		2"			3-3-3		40/110	* maybe later #39??	
2:51	B	03 57 W			1.5		22-22-22		40/300		

Transparency Conditions

66

Dome Temp. $+62^{\circ}$ H=9470

ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality	
7:58	"	04 04 W		2"	2/15	5-K	7-14	Nov 9	40/40	*		
8:25	B	04 32 W		4"			no filter on 3-3-3	"	40/100	*		
		Dev 5 1/2 m @ 67° D-1.9									*	
1:33	C	05 10 W + 48 08	2" 4"				22-2222	Nov 9	40/200			
	A	3:62 B5							40/			

67

Date Thurs/Wed Sept 2-3, 75 Observer Fgi-Jn 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
39845	Nova Cyg	21 ^h 10.9 ^m	48° 02'	G12	IIIa J-e	13/.5	65°F	19:35	20:38	A	02 02E
39845T	Cal stop	wedge	for 39845	5055"	180 sec			Dw 7 min	063°F		05
39846	190918	20 ^h 02 ^m	35° 39'	G12	IIa Oe	18/.5		20:45	21:40	B	00 04W
39846T	Cal stop	wedge	for 39846, 39847	1'	90 sec			Dw 9 min	068°F		015
39847	Nova Cyg	21 ^h 10.9	48° 02'	"	"	13/.5		21:46	22:04	C	00 38E
39848	Nova Cyg	"	"	G16	IIa-f-e	9/.9		22:12	23:19	B	00 37W
39848T	Cal stop	wedge	for 39848		5 min			53:14	58:14		Dw 5 min
39849	Nova Cyg	21 ^h 10.9	48° 02'	G12	IIa O-e	13/.9	59°F	23:26	00:03	C	01 21W
39850	"	"	"	G12	IIIa J-e	13/.5		00:05	01:18	B	02 36W
39851	Nova Cyg	"	"	G16	IIa-f-e	13/.5		01:26	01:46	C	03 04W
39852	"	"	"	G12	IIIa J-e	"	55°F	01:54	03:03	B	04 21W
39853	"	"	"	"	"	"		03:05	04:12	C	05 31W
39854	HD 217782	22 58.0	42° 13'	"	"	13/.5		04:17	04:25	A	03 56W
39855	HD 217675	22 ^h 57.5	41° 47'	"	"	9/.5		04:28	04:54	B	04 W

Dome Temp. 62°F H=8278

Focus 11-R → 30-R

Dome Temp. 52°F H=9570

Transparency Conditions Good Windy

S 8

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
38	A	02 02E	+48 05	3-8°	4.5		22-22-22	NOVA	40/150	** At Far right of box	
39		D19								**	
40	B	00 04W	+35° 45	3-5°	6.83	WN4.5 +09.5	7-6-6	Fpi Thesis	400/220		
41		D19									
42	C	00 38E	+48° 05	2-5			7-6-7	NOVA	40/92		
43	B	00 37 W	"	"			3-3-3	"	40/100	* } in middle of box	
44		Dew 5 min 68°F D19								*	
45	C	01 21W	+48° 05				7-6-6	NOVA	40/50		
46	B	02 36 W	+48° 05	2-3			22-22-22	"	40/175	**	
47	C	03 04 W	"	2-4			3-3-3	"	40/60	*	
48	B	04 21 W	"	"			22-22-22	"	40/170	** Focus 30-R	
49	C	05 31 W	"	3-5			22-22-22	"	40/145	** TV guide removed) off broke. Dew 5 min D19 68°F	
50	A	03 56 W	+42 42	"	5	A2	22-22-22	shell *	40/18	** Seems fit) wrong star	
51	B	04	W+42 16	"	3.62	B6p	22-22-22	shell *	40/70	** right star	

Date Wed/Thurs 3/4 Sept. 1975 **Observer** B/n-Tn **Julian Day**

[illegible]

Dome Temp.

* 70. 10th of Boy

70

[illegible]

71 41

Date 4/5 Sept. 1975 Thu/Fri Observer Blm-Th 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
39859	Nova Cygni 1975	21 ^h 10 ^m 19 ^s ⁽¹⁹⁷⁵⁾	+47° 58'	G-12	IIIa-JE	20/15		19:31	22:52	A	00:21
398597	Cal step wedge		180 sec	for	39859						
39860	Nova Cygni 1975	21 ^h 10 ^m 9 ^s ⁽¹⁹⁷⁵⁾	+47° 58'	G16	IIa-fe	20/9	63°F	23:22	00:27	B	01:05
39861	HD 212097	22 ^h 16 ^m 7 ^s	+27° 50'	G-16	IIa-FE	19/17		00:32	01:08	C	01:36
39862	Nova Cygni	21 10.9	+47 54	G-12	IIa-OE	13/7		01:17	02:33	A	04:01
39862 F1	Cal step wedge		5 min		IIa-fe	for	39860, 61, 70				
39862 T2	Cal step wedge		90 sec		IIa-OE	for	39862 - 69, 71, 72				
39863	HD 26961	04 ^h 10 ^m 7 ^s	+50° 03'	G12	IIa OE	13/5		02:37	02:42	B	02:57
39864	HD 25862	03 43.3	+23 51	G-12	IIa OE	9/5		02:47	03:05	C	02:08
39865	HD 12929	02 01.5	+22 59	n	n	13/5		03:14	03:16	B	00:15
39866	HD 26961	04 10.7	+50 03	"	"	13/9		03:20	03:28	C	02:11
39867	"	"	"	"	"	"		03:29	03:36	B	02:02
39868	HD 26961	04 10.7	+50 03	G-12	IIa OE	13/9		03:38	03:47	A	01:51
39869	"	"	"	"	"	"		03:48	03:56	B	01:42
39870	"	"	"	G16	IIa-fe	13/5		04:02	04:35	A	01:45
39871	"	"	"	G-12	IIa-OE	13/9		04:41	04:49	B	00:51

Dome Temp. 66° F. H=73%

Focus 20-R

Dome Temp. 58° F. H=99% Wet

Transparency Conditions Fair - Some cloud

72

* To Far right of Box

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:52	A	00 17W	+48° 06'	3	5.4	N	30-30-30	None	80/800	++ } To Far left of Box ++ }	Fair
2:27	B	01 55W		3	5.4	N	^{no filter} 4-4-4	None	80/300	* Forgot to uncap grating	Fair
3:08	C	01 25W	+28 47	2"-3"	4.83	B8V	^{no filter} 4-4-4	Algal Std	80/280	* wrong slit width	Fair
3:33	A	04 00W	+48 07	"	5.4	N	^{no filter} 7-7-7	None	80/140		Fair
										* Just before 62	
3:42	B	02 57E		2-3	4.57	A2V	7-7-7	Shell-G1	80/21		Fair
3:05	C	02 05E	+24 08		5.1	B8V	7-7-7	Shell-G1	80/40		Fair
3:16	B	00 12E			3.15	A2V	11-11	Std Vel	80/50		Fair
3:28	C	02 11E			4.57	A2V	7-7-7	Sp. B. - B. 10	80/50		Fair
3:36	B	02 02E	+50° 17'		"	"	7-7-7	"	80/50		Fair
3:47	A	01 51E			"	"	11-11	"	80/50		Fair
3:56	B	01 42E	+50 16		"	"	11-11	"	80/50		Fair
4:35	A	01 05E			"	"	^{no filter} 4-4-4	"	80/200	*	Fair
4:49	B	00 51E		2"			7-7-7	"	80/50	Rotated grating one screw then down (CW)	Fair

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

[illegible]

Transparency Conditions

74

Dome Temp. ...58°F... H = 997

[illegible]

75 #1

70 visitors - 1 hr

Date 6/7 Sept 75 Sat-Sun Observer Che - Th 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
39873	189687	19 56.2	36 46	612	IIa-02	13/5	64°F	21:10	21:22	A	00 08 W
39874	212076	22 16.5	11 42	"	"	"		21:28	21:41	C	01 55 E
39874T	Cal step wedge		90sec		"						
39875	Nova Cyg 75	21 10.9 ⁷⁵	+47 58 ⁷⁵	G12	"	20/5		21:51	22:45	A	00 12 W
39876	189687	19 56.2	36 46	"	"	13/5		22:52	23:06	B	01 52 W
39877	212076	22 16.5	+11 42	"	"	"		23:10	23:21	C	00 15 E
39878	Nova Cyg 75	21 10.9 ⁷⁵	+47 58 ⁷⁵	"	"	20/5		23:27	00:22	A	01 57 W
39879	189687	19 56.2	36 46	"	"	13/5		00:27	00:37	B	03 22 W
39880	16582	2 34.4	-00 06	"	"	13/5		00:46.5	00:53	C	02 45 E
39881	"	"	"	"	"	"		00:54	01:10	A	02 53 E
39882	212076	22 16.5	11 42	"	"	"		01:09.5	01:19	B	01 45 W
39883	HD 189687	19 56.2	+36 46	"	"	"		01:22.5	01:32	C	04 18 W
39884	Nova Cyg 75	21 10.9 ⁷⁵	47 58 ⁷⁵	"	"	20/5		01:36	02:37	A	04 11 W
39885	189687	19 56.2	36 46	"	"	13/5		02:40	02:58	B	05 44 W
39885T	Cal step wedge for 39875, 78		84		"	90sec					
39886	HD 212076	22 16.5	+11 42	G12	"	13/5	55°F	03:02	03:14	C	03 39 W

Dome Temp. 60°F H=9370

Focus 20-R

Dome Temp. 55°F (39886F Focus 55°F)

Transparency Conditions Good

75

! Note use July 75 new emblem III & J.

* At Far right of box

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:42	A	00 08 W	37 05	2-4	5.17	B3Ve	7-7-7	β Cephei	200/160		lin
1:41	C	01 55 E	+12 10	"	5.04	B2Ve	7-7-7	"	200/160		"
2:45	A	00 18 W		2-4	5.1	N	5-5-5	Nova	200/250	*	"
3:06	B	01 52 W	+37 05	"	5.17	B3Ve	7-7-7	β Cephei	200/70	Rotated guiding 2-cw turns ccw up)	"
3:21	C	00 15 E		2-3	5.04	B2Ve	7-7-7	"	200/85		"
3:57	A	01 57 W	+48 08	2-5"	5.9	N	5-5-5	Nova	200/251	*	"
4:37	B	03 22 W	37 05		5.17	B3Ve	7-7-7	β Cephei	200/160		"
4:53	C	02 45 E	00 17		4.07	B2IV	7-7-7	β Cephei	200/160		"
11:01	A	02 53 E	"	2-3	"	"	7-7-7	"	200/60	broken lpc saved	"
1:19	B	01 45 W	17 10		5.04	B2Ve	7-7-7	"	200/60		"
1:32	C	04 18 W	37 05		5.17	B3Ve	7-7-7	"	200/60	Hazy	"
2:37	A	04 11 W	48 08		5.9	N	5-5-5	Nova	200/240	* 2 broken off end	"
2:58	B	05 44 W	37 05		5.17	B3Ve	7-7-7	β Cephei	200/70		"
										* Jagged	
3:14	C	03 39 W	+12 13	2-4"	5.04	B2Ve	7-7-7	β Cephei	200/66	Clouds coming	(clouded over)

Date 8/9 SEPT 75 MON - TUES Observer Gl. Tn Julian Day 1

[illegible]

Dome Temp.

Transparency Conditions Scattered Cloud - Windy NW
Bad

78

[illegible]

Date 9/10 Sept 75 Tues - Wed Observer But - Th Julian Day

[illegible]

Dome Temp. 44°F H=9070 Cold

Five Aurora by 22^h
Saw 2 fast Fireballs - (meteors with tails)

80

[illegible]

Date Wed - Thurs
Sept 10/11 1975

Observer

Had - But / We - But
Julian Day

Julian Day

[illegible]

Dome Temp. 60 °F H = 1003

Transparency Conditions Good - for

82

[illegible]

83.

Date Sept 12/13 Fri/Sat 75 Observer hnc - But 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
39897	HD 218634	2304.5	8 08	12	IIa-o-e	13/5	56°F	00:12	02:30	A	02:30V
39897 T	Cal Step Wedge		90 sec		IIa-o-e						Dw A
39898	HD 16582	2 34.4	-00 06	G 12	IIa-o-e	13/5		02:35	02:43	B	00:45E
39899	"	"	"	"	"	"		02:45	02:54	C	00:51E
39900	"	"	"	"	"	"		02:55	03:05	A	00:25E
39901	"	"	"	"	"	"		03:06	03:15	B	00:14E
39902	"	"	"	"	"	"		03:18	03:27	C	00:02E
39903	"	"	"	"	"	"		03:30	03:38	A	00:08W
39904	"	"	"	"	"	"		03:44	03:51	B	00:24W
39905	"	"	"	"	"	"		03:55	04:07	C	00:36W
39906	"	"	"	"	"	"		04:09	04:20	A	00:51W
39907	HD 16582	2 34.4	-00 06	G 12	IIa-o-e	13/5		04:29	04:36	B	01:07W
39908	"	"	"	"	"	"	47°F	04:41	04:48	C	01:14W
39908 T	Cal Step Wedge		9.25 sec		IIa-o-e						

Dome Temp. 5Focus 4Dome Temp. 5

Dome Temp. 48° 99°b

84

[illegible]

Date Sept 13/14 Sat/Sun 75 Observer KK - But Julian Day

[illegible]

Dome Temp. 44°F H= 997

Transparency Conditions Good - scattered cloud

80

Landing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
12	A	02 30 W	+33 47	2-3"	5.4	F-5	8-8-8	Astron-Spec	200/155	17 Cygni A cloud	Py
11	B	03 07 W	+14 40		3.78	F5 IV	8-8-8		100/150	cloud	Py
11	C	00 59 W	+42 18	2-3	3.6	B6 p	8-8-8	Shell-Ab	100/102		Py
	A	00 40 W	+54 53	2-3"	5.81	G5 Vp	8-8-8	Hsp sp	200/205	(broken in half) cloud	Py
			Don 9m			D19	2650 F				
10	B	04 05 W	+44 00	3	9.6		7-7-7		800/174	+43°44' = Gmb 34 A thin cloud	Beck
										right hand side bar #2	

67

* New Box Evac. 6^h

Page ①

Date Sept 14/15 Sun/mornObserver Fg-Burt/Che-Burt 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
39914	Hb 190918	20 ^h 2.2	+35° 31 ^m	G12	Ilad-c	13/1.5	53 F	19.37	20:16	A	00:35
39915	BD+35° 3956	"	"	"	"	18/1.3		20:24	22 25	B	01:35
39915 T	Cal Step Wedge		90 sec		Il-a-o-e						
39916	NOVA CYG	21 10:9 ¹⁹⁷⁵	+47° 58	G12	"	20/1.5		22:36	00:09	C	02:44
39917	HD 16582	234.4	-00 06	"	"	13/1.5		00 17	00:26	A	02:58
39918	"	"	"	"	"	"		00 28	00:35	B	02:47
39919	"	"	"	"	"	"		00 37	00:42	C	02:35
39920	"	"	"	"	"	"		00:48	00:55	A	02:55
39921	"	"	"	"	"	"		01:06	01 10	B	02:55
39922	"	"	"	"	"	"		01:12	01 20	C	02:05
39923 *	"	"	"	"	"	"		01:24	01 32	A	01:49
39923 T	Cal Step Wedge		90 Sec		Il-a-o-e						
39924	HD 16582	234.4	-00 06	G12	Ilad-e	13/1.5		01 36	01 44	B	01:37
39925	"	"	"	"	"	"		01 46	01 54	C	01:23
39926	"	"	"	"	"	"		02 02	02 08	A	01:13
39927	"	"	"	"	"	"		02 17	02 22	B	00:59

Dome Temp. 55°F H=70%

Focus 40 R

Dome Temp. 50°F H=88%

Transparency Conditions Sl. Haze thin cloud

80

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:16	A	00 33E	+35 51	1.2"	6.83	W4.5 F07	7-7-7	Fgi Thesis	800/457	in Box #3	line
02:25	B	01 35W	+35 50	1.2"	8.85	B0.5V	7-3-3	"	800/200	broken - 2 pieces.	fine
			Dew 9m	D19	@ 68°F						
05:09	C	02 14W	+48 08	1"	7.2	N	5-5-5	NOVA	200/250		strong
0:24	A	02 38E	+00 22	2"	4.07	B2IV	7-7-7	β Cephei	200/60		fine
0:35	C	02 47E	"	"	"	"	7-7-7	"	200/60		fine
0:42	C	02 39E	"	"	"	"	7-7-7	"	200/60		fine
0:55	A	02 26E	"	"	"	"	7-7-7	"	200/66		fine
0:10	B	02 11E	"	"	"	"	7-7-7	"	200/60		fine
1:20	C	02 02E	"	"	"	"	7-7-7	"	200/60		fine
0:32	F	01 49	"	"	"	"	7-7-7	"	200/60		fine
			Dew 9m	D19	@ 69°F						
01:44	B	01 37	+00° 22'	"	"	"	7-7-7	"	200/60		fine
01:54	C	01 27	"	"	"	"	7-7-7	"	200/60		fine
02:08	A	01 13	"	"	"	"	7-14	"	200/64		fine
02:22	B	00 59	"	1"	"	"	7-7-7	"	200/61		fine

69 Page ②

Date Sept 14/15 Observer Lne - But 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.	How Angle End
39928	HD 16582	2 34.4	-00 06	G12	β -a-o.e	13/5		02 30	02 36	C	00 35E
39929	"	"	"	"	"	"		02 45	02 50	A	00 31E
39930	"	"	"	"	"	"		03 00	03 04	B	00 37E
39931	"	"	"	"	"	"		03 13	03 17	C	00 41E
39932	"	"	"	"	"	"		03 24	03 28	A	00 44E
39933	"	"	"	"	"	"		03 36	03 40	B	00 47E
39932T	Col Step	Wedge	90 sec		β -a-o.e						
39934	HD 16582	2 34.4	-00 06	G12	"	13/5		03 49	03 56	C	00 34W
39935	"	"	"	"	"	"		04:04	04 10	A	00 38W
39936	"	"	"	"	"	"		04:15	04 20	B	00 59W
39937	"	"	"	"	"	"		04:29	04 33	C	01 12W
39938	"	"	"	"	"	"		04:40	04 45	A	01 24W
39939	HD 16582	2 34.4	-00 06	G12	β -a-o.e	13/5	560	04:54	05 00	B	01 49W

Dome Temp. 5

Focus —

Dome Temp. 4

Dome Temp. 50°F H=88°6

Transparency Conditions Good

90

Focus

Dome Temp. 49°F H=92°6

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 26	C	00 45 E	+00 22	1"	4.07	B2V	7-7-7	β Cephei	200/60		fin
02 50	A	00 31 E	"		"	"	7-7-7	"	200/60		fin
03 04	B	00 17 E	"		"	"	7-7-7	"	200/60		fin
03 17	C	00 04 E	"		"	"	7-7-7	"	200/60		fin
03 21	A	00 06 W	"	1"	"	"	7-7-7	"	200/61	↑ in Box #3	fin
03 40	B	00 19 W	"		"	"	7-7-7	"	200/60	in Box #1 (broken 2 pc)	fin
			Dec 9 min Dig @ 68°E							↓	
03 56	C	00 34 W	+00 22		"	"	7-7-7	"	200/60	thin cloud	fin
04 10	A	00 48 W	"		"	"	7-7-7	"	200/60		fin
04 12	B	00 59 W	"		"	"	7-7-7	"	200/60		fin
04 37	C	01 12 W	"		"	"	7-7-7	"	200/60		fin
04 55	A	01 24 W	"		"	"	7-7-7	"	200/60		fin
05 07	B	01 49 W	+00 22		4.07	B2V	7-7-7	β Cephei	200/60		fin

Date Sept 17/18 Wed-Thurs Observer KA-Tg Julian Day 174.5

[illegible]

Dome Temp. 65°F H = 85%

Dome Temp. 63° F. " "

Focus 20-R - Tension nut was non tense

1) Transparency Conditions Hazy - cloudy

Dome Temp.

92

[illegible]

Date Sept 21-22, 1975 Sun-Mon Observer Fji-Tn/Lre-Tn Julian Day 197

[illegible]

Dome Temp.

24

[illegible]

Date SEPT. 24/25 Wed-Thur. 75 Observer Trv - But Julian Day

[illegible]

Dome Temp. 50°F H=77 g

Transparency Conditions Thin citrus

96

[illegible]

97 Visitors till 21:45

2 groups

Date Sept. 27/28 Sat./Sun. 75 Observer KK But Julian Day 2454510.5

[illegible]

Dome Temp. 54°F. H= 856

Transparency Conditions V. Good → cloud

98

[illegible]

09
#1.

Date Sept 28/29 Sun/Mon 75 Observer F. But/L. But Julian Day 1900

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
39951	HD 190918	20 ^h 02.2	+35° 31'	G12	I-a-o-e	13/1.5	60°F	18:57	19:36	A	00:00
39952	"	"	"	G16	I-a-F-e	"		19:50	20:52	B	00:50
39952T	Cal Step Wedge		5 min		I-a-F-e						See 5 min
39953T	Cal Step Wedge		90 sec		II-a-o-e		For	51-64			See 9 min
39953	NOVA CYANI	21 ^h 10.9	+47° 58'	G16	II-a-F-e	20/1.5		20:58	23 13	C	02:13
39954	"	"	"	G12	II-a-o-e	"		23:23	00 44	C	03:45
39954T	Cal Step Wedge		90 sec	"	I-a-o-e						See 9 min
39955	HD 22951	03 36.0	33 39	"	II-a-o-e	13/1.5		01:10	01:15	A	02:15
39956	24760	03 51.1	39 43	"	"	"		01:23	01:25	B	02:19
39957	27192	04 12.6	50 41	"	"	"		01:46	01:52	A	02:16
39958	26912	04 10	08 39	"	"	"		02:03	02:07	B	01:55
39959	HD 22951	03 36.0	33 39	"	"	"		02:15	02:19	C	01:49
39960	24760	03 51.1	39 43	"	"	"		02:25	02:28	A	01:16
39961	27192	04 12.6	50 41	"	"	"		02:35	02:41	B	01:25
39962	26912	04 10.1	08 39	"	"	"		02:49	02:52	B	01:10
39963	HD 22951	03 36.0	33 39	"	"	"		03:03	03:12	C	00:16

Dome Temp. 25

Focus 35.8

Dome Temp.

Dome Temp. 65°F H=61%

Focus 35-R

Dome Temp.

Transparency Conditions Excellent

100

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:26	A	00 27E	+35° 50'	< 1"	6.83	WN 4.5 +0.9	7-7-7	Fg. Thesis	400/220		fine
00:52	B	00 58W	"	"	"	"	3-5-4	"	400/400	* right hand side of Box #2	weak
		Dev 5 min	068°F	D19							
		Dev 9 min	068°F	D19							
01:13	C	02 13W	+48° 08'		~7	NOVA	4-4-4	NOVA	80/150	*	strong
01:41	C	03 45W	"	"	"	"	7-3-3	"	200/120	Push: Dev. same as 39948	fine
		Dev 9 min	068°F	D19						(on r.h.s. of Box #6)	
01:15	A	02 13E	+33° 58'	1-2	4.96	B0.5V	7-7-7	β Cephei	200/60		fine
01:25	B	02 19E	+40° 02'		2.88	B0.5V	7-7-7	"	200/74	39951	strong
01:52	A	02 16E	+50° 56'		5.50	B2N	7-7-7	"	200/60	53T 55	slow
02:01	B	01 56E	+08° 56'	1-2	4.28	B3V	7-7-7	"	200/60	64	fine
02:19	C	01 09E	33° 58'		4.96	B0.5V	7-7-7	"	200/60		fine
02:28	A	01 16E	40° 02'		2.88	B0.5V	7-7-7	"	200/60		fine
02:41	B	01 25E	50° 56'		5.50	B2N	7-7-7	"	200/60		slow
02:52	B	01 10E	08° 56'		4.28	B3V	7-7-7	"	200/60		fine
03:12	C	00 16E	33° 58'		4.96	B0.5V	7-7-7	"	200/60		slow

#2

Dome Temp.

FOCUS

Dome Temp.

Hour Angle
End

Fe do

Dome Temp.

201

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:20	A	0024E	40°02		2.88	B0.5V	7-7-7	β Cephei	200/60		fine
3:49	C	0017E	50°56		5.50	B2IV	7-7-7	"	200/60	399657	weak
3:31	B	0031E	08°56		4.28	B3V	7-7-7	"	200/61	! } il. h.s. of 74 } Box #6	fine
		Dew	9mm @ 68°F		D18						
4:00	B	0031W	33°58	2"	4.96	B0.5V	7-7-7	"	200/61		fine
4:07	C	0023W	40°02		2.88	B0.5V	7-7-7	"	200/60		strong
4:20	A	0013W	50°55	2-3"	5.50	B2IV	7-7-7	"	200/60		sl. w/c grain
4:29	B	0027W	08°56		4.28	B3V	7-7-7	"	200/60		fine
4:39	C	0110W	34°00		4.96	B0.5V	7-7-7	"	200/60		fine
4:47	A	0103W	40°02		2.88	B0.5V	7-7-7	"	200/60		sl. strong
4:58	B	0051W	50°55		5.50	B2IV	7-7-7	"	200/60		sl. w/c
5:09	C	0106W	08°56	2"-3"	4.28	B3V	7-7-7	"	200/60		fine

Date Sept 29-30/75 Observer Hd-Bul. Julian Day 175

[illegible]

Dome Temp. 59°F H = 887

Transparency Conditions Hazy - cloud

104

[illegible]

Dome Temp. ... 61°F ... H = 92%

Transparency Conditions Sl. Haze → Cloud.....

166

Box #2

[illegible]

new batch IIIa3 emulsion

Ad - Ri

[illegible]

Focus 30 R

Dome Temp. ...

Dome Temp.

108

[illegible]

109

#1

Date Thurs Oct 2-3 1975 Observer Lee-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
39985	HD 170000	18 22.2	+71 17	G12	Ilaje	9/1.5	46°F	18:59	19:40	A	01:45W
39986	HD 185423	19 33.8	+3 09	"	Ilaje	13/1.5		19:49	20:24	B	01:13W
39987	HD 185423	19" 33.8	+03° 09'	G-12	Ilao-E	13/1.5		20:26	21:05	C	01:54W
39988	"	"	"	"	"	"		21:07	21:45	A	02:34W
39988T1	cal slip wedge for plates 39985-				Ilaje	180μ					02:20W
39988T2	cal slip wedge for plates 39986 - 39996				Ilao-E	90μ					02:20W
39989	HD 185423	19" 33.8	+03° 09'	G-12	Ilao-E	13/1.5		21:46	22:25	B	03:15W
39990	HD 185423	19" 33.8	+03° 09'	G-12	Ilao-E	13/1.5		22:27	23:10	C	04:00W
39991	Novae 75	21 10.9	+47 58	G-12	"	20/1.5		23:16	01:26	A	04:42W
39992	HD 19374	3 1.8	117 30	G-12	"	20/1.5		01:33	01:47	B	00:52E
39993	"	"	"	"	"	"		01:50	02:03	C	00:35E
39994	"	"	"	"	"	"		02:05	02:18	A	00:21E
39995	"	"	"	"	"	"		02:19	02:32	B	00:05E
39996	"	"	"	"	"	"		02:34	02:46	C	00:58W
39997	"	"	"	"	"	"		02:48	03:00	A	01:22W
39998	"	"	"	"	"	"		03:02	03:15	B	01:36W

Dome Temp. 42° H = 71%

Focus 50R

Dome Temp.

Transparency Conditions *good moon and clear*

118

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:40	A	01 ^h 45W	+71°24'	4	4.18	AO Si	22-22-22	Sp Bin - Bl	40/74	right side of Box #3	guiding very str.
1:24	B	01 ^h 13W	+03°27'	3-4	6.36	B4	7-7-7	β Cephei	400/120		Fine
1:05	C	01 ^h 54W	+03°27'	3	6.36	B4	7-7-7	"	400/120		Fine slightly
1:45	A	02 ^h 34W			"	"	7-7-7	"	400/120		Fine
		Dew 7 min @ 68°F D19								right side of Box #3	
		Dew 9 min @ 68°F D19									
2:25	B	03 ^h 15W	+03°27'		6.36	B4	7-7-7	"	400/120		Fine
3:10	C	04 ^h 00W	03°27'		6.36	B4	7-7-7	"	400/100		Fine Gdy
1:26	A	04 ^h 43W	48°08'		2.7	NOVA	7-7-7	NOVA	400/240		
1:47	B	00 ^h 52E	+17°54'		6.06	B2 V	7-7-7	β Cephei	400/120		Fine & guiding
2:03	C	00 ^h 35E	"		"	"	7-7-7	"	400/120		Fine
2:19	A	00 ^h 21E	"		"	"	7-7-7	"	400/120		Fine
2:32	B	00 ^h 05E	"		"	"	7-7-7	"	400/120		Fine
2:46	C	00 ^h 08W	"		"	"	7-7-7	"	400/120	Broken 2 pieces many pieces	Fine?
3:00	A	00 ^h 32W	"		"	"	7-7-7	"	400/120		Fine
3:15	B	00 ^h 36W	"		"	"	7-7-7	"	400/120		Fine

* new box of plates in oven
for only 1 1/2 hr

Dome Temp.

Focus 502

Dome Temp.

Hour Angle
End

Dome Temp. 37° H=95%

Focus $50R$

Dome Temp.

Transparency Conditions *good*
clear & cold

112

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:29	C	00 ^h 50W	+17° 54'	3	6.06	B2V	7-7-7	P. Galin	400/120	Box #3	Fine
3:45	A	01 ^h 06W			"	"	7-7-7	"	400/160	Box #1 Broken 2 discarded	vs/str
3:55	A									Box #3	33
										Box #1	
4:02	B	01 ^h 24W	+17° 54'	3	6.06	B2V	7-7-7	"	400/160	Box #1	vis/str
4:11	C	01 ^h 41W	"		"	"	7-7-7	"	400/160	Box 2 pieces	Fine
4:13	A	01 ^h 56W	"		"	"	7-7-7	"	400/160		vs/strong
4:51	B	02 ^h 12W	"		"	"	7-7-7	"	400/160		Fine
5:10	C	02 ^h 31W	"		"	"	7-7-7	"	400/160		Fine

IIa FE 19095

Julian Day

Ri - Wanders

Dome Temp.
Focus 4.2
Dome Temp.

Dome Temp. 60°F 73%

Focus 40R

Dome Temp. 50°F 97%

Transparency Conditions good

114

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:02	A	00°29W	+35°50	2-3	7.60	WV45 095W	7-7-7	Sp Bw-Bz	800/440		
01:30	B	03°57W	+35°50	"	"	"	no filter 5-5-5	"	400/600	middle of Box #3	
		Dew	7 min	68"		D19				middle of Box #3	
		Dew	9 min	"		"					
		"	7 min	"		"				right side of Box #3	
01:30	C	04°42W	+49°09'	2		Noun	8-8-8	NOVA	400/240	BROKEN 2 PIECES	
02:04	A	03°34W	+42°18'	2	3.63	B6p	25-25-25	Sp Bw-Bz	40/120	right side of Box #3	
02:34	B	04°05W	"	"	"	"	no filter 5-5-5	"	40/100	middle of Box #3	
03:03	C	01°52W	+50°38	2-3	3.95	B0p	5-5-5	"	40/100	middle of Box #3	
03:37	A	02°26W	+50°38		3.95	B0p	25-25-25	"	40/120	right side of Box #3	
04:32	B	02°48W	+50°07'	3	5.44	ApSi	8-8-8	"	200/150	BROKEN 2 PIECES	
05:23	C	00°19W	-02°30		6.32	B3p	8-8-8	"	400/140	BROKEN 2 PIECES	
05:40	A	00°35W	-02°30		3.51	095W	25-25-25	"	40/70	right side of Box #3	

Παο.Ε 03105
Παο.Ε+ 05105

Observer Glenn - Li Julian Day 2454910.5[illegible]

Dome Temp. 60°F 93%

46

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:48	A	00 ^h 45 ^m 7 ^s W	+03° 31'	3-4"	6.1	A0	10-10-10	G1 Shell	400/200		
02:00	B	00 ^h 42 ^m W	+15° 55'		7.3	A2	1010-10	"	400/150	clouded in	
		Dew 9 mm @ 69°F		0.19							
00:26	C	00 ^h 33 ^m 3 ^s E	+44° 52'		6.4	B2 IV	7-7-7	β Cephei	400/91	clouded out	wk
02:10	A	00 ^h 40 ^m E	"		"	"	7-7-7	β Cephei	400/120		s/wk
02:43	B	00 ^h 09 ^m E	"		"	"	7-7-7	"	400/120		Fine but gliding
03:11	C	00 ^h 30 ^m W	"		"	"	7-7-7	"	400/120		Fine
04:09	A	01 ^h 19 ^m W	"		"	"	7-7-7	"	400/120		s/wk
04:51	A	02 ^h 00 ^m W	"		"	"	7-7-7	"	400/120		v s/wk
05:26	B	02 ^h 35 ^m W	"		"	"	7-7-7	"	400/120	new box of Plates 05105	v s/wk

Παο - 05105

Date Oct 6-7 1975 Mor Texas Observer MR-Ri Julian Day

[illegible]

Dome Temp. 44°F 86%

Transparency Conditions *very good*

118

[illegible]

II-0-05105

thru w Ddr
(correction 3ASpro)

Date Oct 7-8 1975 Tues Wed

Observer $H_d - R_i / R_i - D_r$

Julian Day

[illegible]

Dome Temp. 48°F 95%

120

[illegible]

Emulsion 05105

Date OCT. 12/13/75 Sun/Mon Observer Tnr - Tn Julian Day 174

[illegible]

Dome Temp.

Transparency Conditions

Clearing by 21' - heavy

122

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
5		03 214/	+48° 09'	2-3	8	blue	6-6-6	NOVA CYG	400/123	C's. max. by 23 ^h	Fine sky bad
257	8	03 21 E	+15° 41'	3-4	4.74	FOI	8-8-8	Tnr Hyd. Bin	200/90	broken 2" off 1/2 sec	Fine
22	C	03 04 E	+14° 55'	"	4.90	A8	8-16	"	200/20	cloud/broken 4" off	ok
										Bad Fe (dbl)	

Παο-ε 07094 08105

Dome Temp. .

Focus 20

Dome Temp.

How Angle
End

0202W

Dome Temp.

124

[illegible]

125 #1

Old batch cut 19095

* New Batch DAF 03075 17105
Evacuated only 2 hrs

Date Oct 16-17 1975 Thurs-Fri Observer Sho-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
40046	^{HD19356} Algol	03 01.7	+46.34	G16	DAFe	9/9		00 08	00 44	A	01 00 E
40046T	Cal step wedge for 40046-51				"	5 min		Dev 6 min	D19 9°F		
40047	Algol	03 01.7	+40 34	G16	"	9/9		00:45	01:05	B	00 39 E
40048 Omit →	Algol	"	"	G16	"	9/9		01:06	01:25	C	00 19 E
40049	"	"	"	"	"	"		01:26	01:43	A	00 01 E
40050	"	"	"	"	"	"		01:44	02:12	C	00 28 W
40051	"	"	"	"	"	"		02:14	02:38	A	00 54 W
40052	Algol	03 01.7	+40 34	G16	DAFe*	9/9	47°F	02:40	03:03	B	01 19 W
40052T	Cal step wedge for 40052-60				"	5 min		Dev 6 min	D15 69°F		
40053	Algol	03 01.7	+40 34	G16	"	9/9		03:04	03:19	C	01 35 W
40054	"	"	"	"	"	"		03:20	03:36	A	01 53 W
40055	"	"	"	"	"	"		03:37	03:53	B	02 09 W
40056	"	"	"	"	"	"		03:54	04:08	C	02 24 W
40057	"	"	"	"	"	"		04:09	04:24	A	02 40 W
40058	"	"	"	"	"	"		04:25	04:39	B	02 55 W
40059	"	"	"	"	"	"		04:40	04:56	A	03 12 W

17105

Dome Temp. 97°F $H=85\%$
 Focus $20\text{-R} - 50\text{-R}$ changed for 40052
 Dome Temp.

Transparency Conditions

Very cloudy with holes
 - Excellent by 24

125

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:44	A	01 00 E	+40 57	2-3	2.2- 3.3	B8V	no filter 4-4-4	Radio Star	40/200	pos focus	Fine guiding
01:05	B	00 39 E			2.2- 3.3	B8V	4-4-4	Radio Star	40/200	broken 2pc	Fine gdg
01:25	C	00 19 E			"	"	4-4-4	"	40/200	Complete Distard	Fogged
01:43	A	00 01 E			"	"	4-4-4	"	40/200		Fine
02:12	C	00 28 W			"	"	4-4-4	"	40/205		Fine
02:38	A	00 54 W			"	"	4-4-4	"	40/201	Starting from Left Box	Fine
03:03	B	01 19 W			"	"	4-4-4	"	40/215		Fine sl gdg
03:19	C	01 35 W			"	"	4-4-4	"	40/215	maybe fog?	Fine sl gdg
03:36	A	01 53 W		2	"	"	4-4-4	"	40/215		Fine sl gdg
03:53	B	02 09 W	+40 58	2	"	"	4-4-4	"	40/215		Fine sl gdg
04:08	C	02 24 W		2-3	"	"	4-4-4	"	40/223	Note An extra plate	Fine sl gdg
04:24	A	02 40 W			"	"	4-4-4	"	40/215	was in PH C	Fine sl gdg
04:39	B	02 55 W			"	"	4-4-4	"	40/211	put in this batch	Fine sl gdg
04:56	A	03 12 W			"	"	4-4-4	"	40/215		Fine

xx From Box #2 with Test Tag

Observer.

Julian Day

Hour Angle
End

Dome Temp. 40°F H = 827

Excellent

128

[illegible]

Emulsion 03075 17105

Dome Temp. ...

Focus.....50

Dome Temp. -

[illegible]

Dome Temp.

Transparency Conditions *clouds*

130

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:58	A	00 30W	+40 57	2-3	2.2- 3.3	B8V	5-5-5	Radio Star	40/205	2 pcs. small	dbl Fe
		Dec DIA	6 min		0.68° F						✓
2:44	B	01 16W	+40 57	"	2.2- 3.3	B8V	5-5-5	Radio Star	40/185	clouds	#1/4e
2:20	C	01 52W	"	"	1	"	5-5-5	"	40/209	cloud	sl gng
3:40	A	02 12W	"	"	"	"	5-8	"	40/63	(dual push* with Cal.* at Far right Box #6)	sl gng sl w/t ✓
		Dec DIA	8 min		0.68° F						

Def 03075
HAE 87094-08105

Date Wed-Thurs 22-23 1975

Observer.....J. Ri-MaG

Julian Day

[illegible]

Dome Temp. 56°F 89%

Focus 30R

Dome Temp. 56°F 90%Transparency Conditions *through clouds + haze good after 02:30**HaF plates were cut to lag
had to cut $\frac{1}{8}$ in. off all the plates*

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:12	A	00 ^h 09E	+40°57'	4	2.2 3.3	B8Z	<i>no filter</i> 5-5-5	Radio Star	40/208	right side of Box	sl gng Fine
01:35	B	00 ^h 16W	"	"	"	"	5-5-5	"	40/205	right side of Box	Fine
02:45	C	01 ^h 20W	+27°17'			B9V	Ap 10-10	Ap/HeSi	400/160		Fine
02:45										right side of Box	L
02:45		26 09 1975									
03:29	A	02 ^h 05W	27°17'				10-10-10	Ap/HeSi	400/161		Fine
04:11	B	02 ^h 46W	"				10-10-10	"	400/160		Fine
05:08	C	03 ^h 39W	"				10-10-10	"	400/136		sl wkt
05:32	A	04 ^h 12W	+40°58'		2.2 3.3	B8Z	<i>no filter</i> 5-5-5	Radio Star	40/203	right side of Box	Fine
06:01	B	04 ^h 40W	"		"	"	5-5-5	"	40/206	" - partial exp. to room light	Fine light

T53

IIaO-E-07094-08105 IIaF-E 03075-24105
IIIaJ-E July 75Date Thu Fri 23-24 1975Observer Ho-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 Est.
40073	Algol HD19356	03 ^h 01.7	+40°34	G-12	IIaO-E	9/9	65°F	18:46	18:53	A	06 ^h 25E
40074	Algol	"	"	"	IIIaJ-E	9/9		18:56	19:20	B	05 ^h 58E
40075	"	"	"	"	"	"		19:23	19:45	C	05 ^h 33E
40076	"	"	"	G-16	IIaF-E	9/9		19:52	20:19	A	04 ^h 58E
40077	"	"	"	"	"	"		20:21	20:42	B	04 ^h 34E
40077T1	cal step wedge for plates 40076-81				IIaF-E	5min		20:21	20:42		04:27
40077T2	cal step wedge for plates 40074, 75, 77-84				IIIaJ-E	180sec		" "	" "		
40077T3	cal step wedge for plates 40073 85-89				IIaO-E	90sec		D19 @ 68°F 9min			26
40078	Algol	03 ^h 01.7	+40°34	G-16	IIaF-E	9/9		20:44	21:05	C	04 ^h 12E
40079	Algol	"	"	L 0	"	"		21:07	21:26	A	03 ^h 5E
40080	"	"	"	"	"	"		21:27	21:50	B	03 ^h 27E
40081	"	"	"	"	"	"		21:51	22:11	C	03 ^h 07E
40082	"	"	"	G-12	IIIaJ-E	9/9	58°F	22:20	22:32	A	02 ^h 45E
40083	"	"	"	"	"	"		22:34	22:45	B	02 ^h 32E
40084	"	"	"	"	"	"		22:48	22:59	C	02 ^h 19E
40085	56 Ari ^{HD19832}	03 ^h 06 ^m 17 ^s	+26°53		IIaO-E	9/5		23:06	23:50	A	01 ^h 31E

Dome Temp. 6
Focus 10R
Dome Temp.

55-24105

Dome Temp. 62°F 85%

Focus 10R

Dome Temp.

Transparency Conditions good

134

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18 53	A	06°25E	+40°56'	4	2.2 3.3	B8I	10-10-10	Radio Sta	40/30		g d g
19:20	B	05°58E	"		"	"	25-25-25	"	40/120	right side of Box #6	s/wt g d g
19:45	C	05°33E	"		"	"	25-25-25	"	40/120	right side of Box #6	s/wt g d g
20:19	A	04°58E	"		"	"	5-5-5	"	40/201	middle of Box #6	s/wt g d g
20:42	B	04°34E	"		"	"	5-5-5	"	40/202	middle of Box #6	g d g
21:00		0427								middle of Box #6	✓
										right side of Box #6	✓
26 Oct 1975											
21:05	C	04°12E	+40°56'		2.2 3.3	B8I	5-5-5	Radio sta	40/203	middle of exposed Box #6	s/wt Fine
21:26	A	03°51E	"		"	"	5-5-5	"	40/200	middle of exposed Box #6	g d g splatchy
21:50	B	03°27E	"		"	"	5-5-5	"	40/206	middle of exposed Box #6	Fine
22:11	C	03°07E	"		"	"	5-5-5	"	40/213	middle of exposed Box #6	g d g
22:32	A	02°45E	"	2	"	"	25-25-25	"	40/125	right side of exposed Box #6	s/wt g d g
22:45	B	02°32E	"	2			25-25-25	"	40/124	right side of exposed Box #6	bad g d g
22:59	C	02°19E	"	2°			25-25-25	"	40/130	right side of exposed Box #6	bad g d g
23:50	A	01°31E	+37°15'		5.65	A0p	10-10-10	App/Ho Si	400/160	some focusing trouble //	Fine

136

Dome Temp. ..
Focus
Dome Temp. ..

Focus

135

Dome Temp. 60°F

98%

[illegible]

Dome Temp. 65°F 80% ITa O-E 07094-08105
 Focus 20R IIa J-E July 75
 Dome Temp. 64°F 94% IIa F-E 03075-24105

Transparency Conditions hazy with some clouds

138

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
08:17	A	05414W	+35°15'	3	9.74	09.75	888	Sp Brn-Bln	800/300	some cirrus clouds	Wk s. shut Fe
00:04	B	02456W	+42°18'		3.63	B6p	252525	Shell *	40/120	right side of exposed Box #2	sl fog gng
00:38	C	03432W	"	"	"	"	5-5-5	"	40/100	middle of exposed Box #2	Fine
01:51	A	01426W	+50°07'		5.44	ApSi	888	Ap Bln	200/160		Fine
01:52	A	0427								middle of exposed Box #2	L
01:52	A	"								right side of Box #2	L
01:52	A	"									L
03:12	B	00440W	+16°14'	3	7.14	F8	816	Sp Brn-Bln	400/58	clouds	Wk

139

IIa-O-E 07094-08105, 07094-24105
IIa-F - 03075Date Nov Oct 26-27/75 Observer HD / Sho, Ri Julian Day 175

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
40095	HD 186547	19 39.9	13 04	G-16	IIa-F	13/3	52°F	18 02	20.15	A	00°33W
40096	56 Ari	03 ^h 06.3	+26°53'	G-12	IIa-O-E	9/5		20:29	21:32	B	03°36E
40097	HD 19832	"	"	"	"	"		21:35	22:30	C	04°42E
4009771	cal step wedge for plate 40097-96				IIa-O-E	90 sec		19@ 68°F 9 min			26.0
40098	56 Ari	03 ^h 06.3	+26°53'	G-12	IIa-O-E	9/5		23:14	00:02	A	01°09E
40099	"	"	"	"	"	"		00:03	00:56	B	00°14E
40100	"	"	"	"	"	"		00:57	01:44	C	00°35W
40100T1	cal step wedge for plate 40098				IIa-O-E	90 sec		19 9 min	19@ 68°F		01.27
40100T2	cal step wedge for plate 40099-				IIa-O-E	90 sec		" "	" "		"
40101	56 Ari	03 ^h 06.3	+26°53'	G-12	IIa-O-E	9/5		01:48	02:30	A	01°20W
40102	HD 23862	03 ^h 43.3	+23°51'	G-12	IIa-O-E	9/5		02:33	03:00	B	01°2
40103	56 Ari	03 ^h 06.3	+26°53'	G-12	IIa-O-E	9/5		03:05	03:55	C	01°46W
40104	"	"	"	"	"	"		03:56	04:43	A	03°35W
40104T1	cal step wedge for plate 40095				IIa-F	5 min		19 5 min @ 68°F		09	
40105	56 Ari	03 ^h 06.3	+26°53'	G-12	IIa-O-E			04:44	05:03	B	

Dome Temp. ... 52°F 70%

Focus ... 500R

Dome Temp. ... 32°F 100%

Transparency Conditions ... excellent

140

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:15	A	00 ^h 33W	13 23	2	6.1	B9IV	no filter 5,5,5	1td SB	200/200	middle of Box #4	
01:32	B	00 ^h 36E	+27°15'		5.65	B9IV _p	10-10-10	He, Si Prog.	400/200		Fine
02:10	C	00 ^h 40E	+27°15'		"	"	10-10-10	"	400/220		Fine
02:29		26 02 19 75									L
03:02	A	01 ^h 08E	+27°15'		5.65	B9IV _p	10-10-10	He, Si prog.	400/210		Fine
03:56	B	00 ^h 14E	"		"	"	10-10-10		400/210	new box	
04:41	C	00 ^h 35W	"		"	"	10-10-10		400/210		Fine
05:00		01 27 / 75									L
05:10		"									L
06:10	A	01 ^h 20W	+27°15'		5.65	B9IV _p	10-10-10	He Si	400/210		Fine
07:30	B	01 ^h 14W	+27°10'	2	5.1	B8p	10-10-10	G1 Shell	400/210		Fine
08:55	C	02 ^h 46W	+27°15'		5.65	B9IV _p	10-10-10	He Si	400/210		Fine
09:13	A	03 ^h 35W	"		"	"	10-10-10	"	400/205		Fine
10:13										middle of Box #4	✓
11:03	B		+27°15'		5.65	B9IV _p	10-20	"	400/43	Dome dripping wet	wk FO wk too

144 Primary Aluminized Monday

Do-O-e

07094

Date WED/THU OCT. 29/30/75 Observer Tnr-Tn Julian Day 175

[illegible]

Dome Temp. 30°C H=8570

Transparency Conditions ^{NE} Very windy & cloud in west ¹⁴²

[illegible]

Па-О-е 07094

Mo-J-e 24105

Date THU/FRI OCT 30/31 '75 Observer Tnr -Tn Julian Day

[illegible]

Dome Temp. 35°F $H=70^{\circ}$

Focus $70-A$

Dome Temp. 50°F 80°

Transparency Conditions *Excellent*

1244

Ft Fuzzg Aurora 23^h

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
17:54	A	01 35 W	+32 10	3"	7.6	075 III	6-3-3	Tnr Val 08	400/70	<i>Few Strong</i>	<i>Fine</i> <i>gag</i>
18:17	B	03 48 W	+28 17	2-3"	9.0	07 I f	2-2-2	"	800/140		<i>Fine</i>
		<i>Day D</i>	<i>9 9 min</i>	<i>@ 68°F</i>		<i>Oct 31</i>					<i>✓</i>
19:39	C	05 00 W	+54 28	2-5-1"	9.21	B25 Ib	5-5-5	Sp Bin.-Bln	800/350	<i>Bad RA Oscatn at this Angle</i>	<i>Fine</i>
19:52	B	01 15 W	+18 55	2-3"	8.21	G6 V	7-7-7	<i>Hged Bin</i>	400/150		<i>Fine</i>
19:52	C	03 22 W	+16 35	3-4	7.44	F8 V	7-7-7	"	400/150		<i>Fine</i>
19:43	B	02 24 W	-02 29	"	3.51	09.5 V	25-25-20	<i>Sp Bin.-Bln</i>	40/30	<i>cloud</i>	<i>sluck</i>
		<i>Dec 017</i>	<i>7 min</i>	<i>@ 68°F</i>		<i>Oct 31</i>					

Date Fri - Sat Oct 31 / Nov 1 Observer SM - Tn Julian Day 100

[illegible]

Dome Temp. 47°F H: 77%

146

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:58	A	01 ^m 38 ^s W	+42 17	1-2	3.63	B6p	.70	Shell-B/Ln	40/104	No Fe Arc Cloud	Fine but bad gag
			Daw D19	7m	@	68°F	Nov 3			Arc put on 15 min after End	
	A		in in / out at				5/5	no filter			v sl blue
										<u>NOV. 3/75</u>	
										ARC Electrodes Cleared	
										EX. MTR. DRYER CHANGES	
										WATER IN BATT.	

Date _____

Observer

Hd-Ts-Dr

Julian Day

Do-o-e 03094 - 31105

Dome Temp. 6
Focus 30-
Dome Temp. 5

[illegible]

Dome Temp. 54°F H = 7570

148

[illegible]

149
Pg #1

IIa-J-e 24105
(July 75 batch)

nov

* mistake
IIa-O-e 03094 - 31105
IIa-F-e 03075 - 27105

Date Wed-Thurs 5-6/75 Observer Tm-Sha 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
40125	HD 190918	20 02.2	+35 31	G12	IIa-O-e	13/5	57°F	18 00	18 56	A	01 31 W
40126	"	"	"	G16	IIa-J-e*	18/5		19 00	20 57	B	03 33 W
40126 T	Cal step wedge		90 sec		IIa-O-e						
40127	HD 19356	03 01.7	+40 34	G16	IIa-Fe	9/9		21:06	21:22	C	03 03 E
40127 T	Cal Step wedge		5 min		"						
40128	HD 19356	03 01.7	+40 34	G16	"	9/9		21:23	21:49	A	02 37 E
40129	"	"	"	"	"	"		21:50	22:08	B	02 18 E
40129 T	Cal step wedge for		40126?	180 sec	IIa-J-e						
40130	HD 19356 (Algal)	03 01.7	+40 34	G16	IIa-Fe	9/9		22:09	22 28	C	01 58 E
40131	"	"	"	"	"	"		22:30	22:46	A	01 42 E
40132	"	"	"	"	"	"		22:49	23:01	B	01 30 E
40133	"	"	"	"	"	"		23:06	23:22	C	01 14 E
40134	"	"	"	G16	IIa-Fe	9/9	55°F	23:23	23:40	A	00 45 E
40135	HD 14392 (63 And)	02 14.4	+49 42	G12	IIa-O-e	9/5		00:20	01:09	A	01 31 W
40136	"	"	"	"	"	"		01:10	01:34	B	01 55 W
40137	"	"	"	"	"	"		01:35	02:09	C	02 30 W

Dome Temp. 63°F $H=5670$

Focus $30-R$

Dome Temp.

Transparency Conditions

150
cloudy but fine seeing

* At Far Right of Ex Box 26

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18:56	A	01 31 W		$>1''$	7.6	WN45 09.5.2	7-7-7	NGC 6871	400/225	2" off one end 1pc kept	Fine
20:57	B	03 33 W	+35 51	2"	"	"	5-4-7	"	400/455	cloud * " mistake)	not much good
		Dev No 6 DIS		9 min	@ 68°E						
21:22	C	03 03 E		1"	2.2- 3.3	B8V	no filter 5-5-5	Radio Star	40/123	A1901 * At Far Right of Box	Fine but gng bad
		Dev	DIS	5 min	@ 68°E					*	
1:49	A	02 37 E			2.2- 3.3	B8V	no filter 5-5-5	Radio Star	40/146	A1901 * (min)	Fine gng
2:08	B	02 18 E			"	"	5-5-7	"	40/120	*	sl wk gng
		Dev 5 min DIS	@ 60°E							* put with Dats deliberately	
2:28	C	01 58 E	+40 58	1"	2.2- 3.3	B8V	no filter 5-6-5	Radio Star	40/120	*	v sl wk gng
2:46	A	01 42 E		"	"	"	5-5-5	"	40/130	*	sl wk gng
2:51	B	01 30 E		1"	"	"	5-5-5	"	40/124	*	v sl wk gng
2:52	C	01 14 E		"	"	"	5-5-5	"	40/137	*	Fine gng
2:40	A	00 45 E	+40 58	"	"	"	5-5-5	"	40/131	*	Fine gng
01:09	A	01 31 W	+50 08	2-3	5.44	Ap Si	7-7-7	Ap HeSi prog	200/65	thin cloud	Fine
01:34	B	01 55 W		"	"	"	7-7-7	HeSi program	200/65		Fine
02:09	C	02 30 W		"	"	"	7-7-7	"	200/65		Fine

Date Nov 5-6 175

Observer *Sho-Ta*

Julian Day

[illegible]

Dome Temp.

Transparency Conditions *hazy - s/fog*

152

[illegible]

Па-О-е 03094 - 31105

Dome Temp. 6
Focus 36
Dome Temp.

[illegible]

Dome Temp. 58°F H = 9920

154

[illegible]

155

Do-o-e 03094 -10115

Ma-Je July 75 24105 s/fog

Date Mar-June Nov 10/11 '75 Observer MR-Tm Julian Day But

Dome Temp. 4

Focus 40.

Dome Temp. 4

[illegible]

Dome Temp. 42° $H=8270$

Transparency Conditions *Very windy & fast cloud* 158
strange Aurora like glow 5:10 AM
like milky way between capellus cass 2sec
04/06/06

[illegible]

Па-0-е 03094-10115

Date Tues - Wed Nov 11-12/75 Observer Hd-Tn Julian Day 2454111.5

[illegible]

Dome Temp. 44°F H: 8870

Transparency Conditions

[illegible]

IIIaJ-E July 1975-2410S
IIaF-E
IIaO-E 03094-10115

Date Fri Sat Nov 14-15 1975 Observer Ri-Washington Julian Day 2444110
Ri-Mexico

[illegible]

Dome Temp. 32°F 96%

Transparency Conditions *governed with the odd cloud* 155

[illegible]

Date Sat-Sun Nov 15-16 1975 Observer Ri + Wotcho Julian Day

[illegible]

Dome Temp. 44°F 92%

162

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:20	A	02 ^h 55W	+39°50'	-	7.108	Em	no filter 5-10	F*	800/23	field drawn overclouds clouds middle of Box #4 on	
		Dev D19 N2 burst 4min 8 sec 10 ^{sec} interval + 1 burst							Log 22 max 2.20	the right side of the right	✓
9:50	B	00 ^h 31W	+37°35'	2	6.9	F10	7-7-7	Wide Visual Bin	400/180	through clouds at first "image" shift	fine
1:58	C	01 ^h 14W	+26°36'		7.6	K5III	7-7-7	" "	400/220		fine
2:01	A	02 ^h 04W	+39°55'		8.5	K0III	7-7-7	" "	800/340	HD 7864 (?)	fine
					8.4	K2III	7-	" "			✓
2:20	B	00 ^h 17W	+40°11'						800/	clouded out	

163

IIa-O-E 03094-10115
 IIa-F-E July 75-24105

Date Sun Mon Thu 16-17, 1975 Observer 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
40165	HD 217675	22 ^h 57 ^m 19 ^s	+41° 47'	G-12	IIIaJ-E	9/9	45°F	19:56	20:27	A	20 ^h 51 ^m 10 ^s
40166	"	"	"	G-16	IIaF-E	9/9		20:35	21:30	B	01 ^h 54 ^m
40165L	Spot Calibration				IIa-O	4			15 ^m		01 ^h 54 ^m
S2	" "				IIa-O	4			15 ^m		01 ^h 54 ^m
S3	" "				IIa-O	4			15 ^m		01 ^h 54 ^m
T1	Calibration step wedge				IIa-O				45 ^s		
T2	"	"	"		IIa-O				90 ^s		
T3	"	"	"		IIa-O				180 ^s		
40167	θ Pav HD 10516	01 ^h 37.4	+50° 11'	G-16	IIaF-E	9/9		21:35	22:18	C	02 ^h 00 ^m
40168	"	"	"	G-12	IIIaJ-E	9/9		22:25	22:55	A	02 ^h 36 ^m
40169	63 And HD 14392	02 ^h 14.4	+49° 42'	G-12	IIaO-E	9/9		23:06	23:56	B	01 ^h 00 ^m
40169T1	cal step wedge in plate 40166 + 67				IIaF-E	5mm					
40170	HD 23862	03 ^h 43.3	+23° 51'	G-12	IIaO-E	9/5		00:01	00:47	C	02 ^h 36 ^m
40171	HD 19356	03 ^h 01.7	+40° 34'	G-12	IIIaJ-E	9/9		00:53	01:18	A	01 ^h 35 ^m
40172	"	"	"	"	"	"	44°F	01:19	01:54	B	02 ^h 14 ^m
40172T1	cal step wedge in plate 40165, 68, 71-72				IIIaJ-E	180x					02 ^h 14 ^m
40172T2	40169 + 40170				IIaO-E	90x					02 ^h 14 ^m

Focus 60K
Dome Temp. 48°F 99%

Transparency Conditions *lazy*

164

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:27	A	00°51W	+42°17	2	3.63	B6p	2525-25	Shell * Bl	40/125	right side of Box #1 "mice" shift	sl weak sl guiding
01:30	B	01°54W	"	"	"	"	no filter 5-5-5	"	40/142	middle of Box #1 "mice" shift	sl weak sl guiding
		all 4016G test plates			3900A				12.5V	} 4"x5" plates	
		developed B min N ₂ burst D19			4300A				12.5V		
		Epsi 10x1 lcc burst			4810A				12.5V		
										Page 22 msc 2-73	
02:18	C	00°00	+56°38		3.95	B0p	nft 55 5	Sp Br - Bl	40/140	middle of Box #1	v. sl. weak sl guiding
02:55	A	00°36W	"	"	"	"	2525-25	"	40/180	right end of box #1	sl weak sl guiding
03:56	B	01°00W	+50°07		5.44	ApSi	7-7-2	"	200/160		Fine
		Dew 4min N ₂ Burst D19 Epsi 10+1 cc								middle of Box #1	✓
04:47	C	00°25W	+24°07		5.1	B8p	7-7-2	G1 shell	200/105		Fine
05:18	A	01°35W	+40°56		2.2 3.3	B8V	2525-25		40/140	right side of Box #1	Fine guiding
05:54	B	02°14W	"	"	"	"	2525-25		40/140	closed up tertiary ad tle done in dropping wet	sl weak ✓
		Dew N ₂ burst D19 4 min Bmi N ₂ burst D19 3 min		10+1	Bpsi	Bpsi	Sy .28				

Date 22 Nov 75 Observer lr Julian Day 2451987.5

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

166

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

3900 A

15 volts

Box 4

4300 A

"

4810 A

"

GREEN

4300 A

15 volts

"

"

"

"

Ma-J-e 24105
(July batch)

Па-о-е 03094 16115

Waterloo

Date Sat-Sun Nov 22-23 1975 Observer Tn-C Martin Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Clearing by 04*

* At Far right of Box #1

168

[illegible]

more Wa-1 put in vac

Mo-J-e - (with test tag) OK.

Date Sun-Mon - Nov 23-24/75 Observer Sho-Tn

Julian Day

[illegible]

H-9570

75-R

cloudy mainly

知

[illegible]

Da-o-e 03094-16115

Dome Temp. —
Focus — 7
Dome Temp. —

[illegible]

Dome Temp.

172

[illegible]

Wa-J-e J416utch-24105 51 Fog
 Wa-F-e
 Wa-O-e 03099-16115

Dome Temp. 3
 Focus 7
 Dome Temp.

Hour	Angle Elev.			
00	01 E			
00	58 W			
		Dew cond.		
		Dew cond.		
02	03 W +			
00	14 W			
02	12 W			

Dome Temp.

Transparency Conditions

✓ at Far Left Box #2

Very hoza

middle of Box

* At Far Right of Box #2

174

[illegible]

175

Dome Temp. 30
Focus 80
Dome Temp. 25

[illegible]

Dome Temp. 20°F H= 756

Transparency Conditions *Good* *but Gusty*

170

[illegible]

17a0-e 03094-16115

Date Thurs-Wed Dec 2-3/75 Observer Hol-Tn Julian Day

[illegible]

Dome Temp.

178

[illegible]

MaV-E 7-24115
MaF-E

Dome Temp. ...
Focus ... 80R
Dome Temp. ...

Hour	Angle	End
0040	5W	
0143	2W	
0246	1W	
0350	E	
0448	E	
0548		

Dome Temp.

Transparency Conditions

Transparency Conditions *leg with some circus claud around* 180

[illegible]

Doc. F-F 03075-03125

III-J-E ? - 24115

Π.Ο.-Ε 03094-16115 Π.Ο.-Ε 03094-01125

Date Dec 4-5 1975 9th Fri

Observer RR Ri / R1 - Ri Julian Day[illegible]

Dome Temp. 30°F 92%

Focus 90R

Dome Temp. 30°F 100%

Transparency Conditions fair

102

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18.31	R	00 ^h 45W	+28° 18'		4.83	B8I	^{n film} 5-5-5	Agd. Del Bl	40/80	RHS of Box #2	sl. weak
19.22	R	01 43W	"		"	"	^{n film} 5-5-5	"	40/56	LHS of Box OVERDEVELOP	sl. weak
		Dew 4 min @ 68°F		D19	N2 burst		15 sec	int. 7 dur.	8 psi	LHS of Box #2	/
		"	"	"	"	"	"	"	"	RHS of Box #2	
21.53	C	00 ^h 09W	+50° 05'	4	5.44	ApSi	7-7-7	Ap Bl	200/160	exposed Box #3	fine
22.45	R	01 ^h 01W	"		"	"	7-7-7	"	200/160		fine
23.30	R	01 44W	"	3-4	"	"	7-7-7	"	200/160		fine
00.02	R	00 ^h 39E	+33 49	1-2	5.82 6.49	Ap	7-7-7	Ecl. Bin Bl	200/80		fine
00.56	R	01 ^h 20W	+22° 28'		6.11	B8	8-8-8	Ap-MR	400/180		fine
01.00	R	02 ^h 50W	+18° 18'	3-4	6.74	AO	8-8-8	Ap-MR	400/180	new box of plates	sl. weak
		Dew 8 min @ 68°F		D19	N2 burst		15 sec	int. 7 dur.	8 psi		
		"	"	"	"	"	"	"	"		
04.10	C	01 44W	+42° 25'	6-8	6.61	AO	8-8-8	Ap MR	400/180	closed up because of frost on the inside of the shutters and the end of the tube	sl. weak

ИАО-Е 03094-01125

Date DEC 6/7 SAT FAWN Observer CM/Ki Julian Day 244

[illegible]

Dome Temp. 30°F 75%

Focus 20R

Dome Temp. 18°F 86%

Transparency Conditions

excellent
plates in Box #3

104

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
8:31	L	00 ^h 31W	+40°45'	4-5	6.1	KOTII	7/7-7	Kakos Wide Vis. Bin	400/220		Fine
9:27	B	01 ^h 02W	+46°22'		6.7	KSTII	7/7-7	" " "	400/220		Fine
1	C	01 ^h 40W	+46°55'	3-4	7.7	KOTII	7/7-7	" " "	800/460	HD 3531 ??	Fine guiding
2:18	L	00 ^h 31W	+25°14'		6.3	F3TV	7/7-7	" " "	400/200		Fine
3:59	B	01 ^h 02W	+32°58'		7.2	F5V	7/7-7	" " "	400/200		Fine guiding sl.
4	C	02 ^h 14W	+34°50'		7.0	KOTII	7-7-7	" " "	400/200	HD 23922 ??	Fine
5	H	00 ^h 48W	+21°00'		5.02	B9	7-7-7	Close Vis Bin	400/160		Fine
6:45	B	01 ^h 27W	+51°38'		6.44	A5	7-7-7	" " "	400/160		Fine
7		00 ^h 30W	+24°43'	4-5	7.18	A3	7-7-7	" " "	400/160		Fine sl. guiding
8:15	A	00 ^h 24W	+06°37'		3.12	B3	7-7-7	" " "	400/200		Fine
9:23	L	00 ^h 01E	+31°48'		6.6	F5	7-7-7	" " "	400/200		Fine
10:01	C	00 ^h 20E	+45°19'		6.9	G50	7-7-7	" " "	400/200		Fine guiding

~~HAJ-E~~ P 24115
HAF-E 03075-03125

Observer Sho-ri

Julian Day

[illegible]

Dome Temp.

188

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1.05	A	04 ^h 16E	+40°56'		2.2 3.3	887	56.6 no fill	Radio Star	40/123	LHS of Box #2	Fine guiding
1.46	B	03 ^h 35E	"		"	"	66.6 no fill	"	40/121	clouds LHS of Box #2	Fine
2.10	C	03 ^h 11E	"		"	"	66.6 no fill	"	40/122	LHS of Box #2	Fine guiding
2.45	A	02 ^h 34E	"		"	"	66.6 no fill	"	40/121	LHS of Box #2	Fine guiding
3.23	B	01 ^h 56E	"				5-55 no fill	"	40/74	clouded out RHS Box #2	weak
		Dw S. in P19 N2	67°E				15 sec. 0.7 int.			RHS of Box #2	
		"	"				"			LHS of Box #2	

Ma-J-e ? -24115
Ig-O-e 0309A-01125

Da-0-e 0309A-01125

Date Fri-Sat Dec 12-13 / 1975

Observer T. J. Steves Moon / Julian Day

Julian Day

[illegible]

Dome Temp. 20°F H = 72%

Transparency Conditions

Hazy

188.

* At Left of Box #3

[illegible]

IIa-O-e 03094-01125
IIIa-J-e ? -24115
** IIa-O-e -12125

Date 17/18 December 1975 Wed/Thurs **Observer** Bln - Tu - McG **Julian Day**

[illegible]

Dome Temp.

Transparency Conditions *Semi clear* → *Excellent* ¹⁹⁰

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:28	A	0134W	+50 02	4-10'	5.44	Ap 51	8-8-8	Ap - Bl _n	400/265	cloud by end * At Far right of Box	1 Fine
3:4	B	0036E		2-4	3.51	⁹ 09.51 N. Filter 4-6-5		Sp. Bin - Bl _n	200/320	clearing again	Fe str Strong
01:01	C	0050W	-2° 34'	"	6.32	132p	7-7-7	Bp - Bl _n	400/140		Fine
01:44	B	0155W	+33 44	2-3'	5.8- 6.5	Ap	7-7-7	Ap - Bl _n	400/140	broken 2pc saved *	Fine
03:30	C	0200W	+42 23	2-3	6.61	A0	8-9-7	Ap - MR	400/140	cloud by 3 AM snow	2" broken on off v sl wk Fine

$\widehat{W}_{a-1,e} \quad ? \quad -2411.5$

Dome Temp. 1
Focus 110
Dome Temp.

Hour	Angle	End
00	46 W	4
01	01 S	1

Dome Temp.

192

then Late effect cloud 18:20

[illegible]

По-О-е 03094 - 01125

working on TV system

Date 20-21 Dec 75/Sat-Sun Observer Tn-Rc Julian Day.....

[illegible]

Dome Temp. 10°F H = 907
Focus 110-R or 90 block
Dome Temp. 0°F H = 908

Transparency Conditions *very good by 22nd*

194

TU guided (Fino)

[illegible]

195

TV system really works wow!

Ma-J-e ? - 24115

Ma-F-e 03075 - 03125

Ma-O-e 03095 - 12125

Date 21-22 Dec 75 / Sun-Mon Observer 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.
40234	HD 217675	22 57.3	+41.47	G16	Ma-F-e	9/5	11°F	17 26	18:02	A
40235	"	"	"	"	"	9/9		18 03	19:06	B
40235T	Cal for 40234, 35			5min	"					
40236	HD 217675	22 57.3	+41.47	G12	Ma-J-e	9/9	10°F	19:11	20:03	C
40236T	Cal for 40236-37, 40, 45			180sec	"					
40237	HD 23862	03 43.3	+23 51	G12	"	13/5		20 09	23 11	A
40238	"	"	"	"	Ma-O-e	9/5		23 12	23 32	B
40239	HD 37479	05 33.7	-2 39	"	"	13/5		23 40	00:44	C
40239T	Cal for 40238-39, 41-44			91sec	"					
40240	HD 37468	05 33.7	-2 39	G12	Ma-J-e	13/5		00 45	01:07	A
40241	HD 34364	05 16.7	+33 44	"	Ma-O-e	"		01:11	01:40	B
40242	HD 51418	06 52.2	+40 26	"	"	9/5		01:48	03:03	C
40243	HD 100054	11 25.7	+60 15	"	"	13/5		03:12	05:03	A
40244	HD 101906	11 38.6	+24 33	"	"	13/3		05:12	06:59	B
40245	HD 116656	13 19.9	+55 27	"	Ma-J-e	9/9		07:06	07:17	C

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

00 43 W

01 47 W

4 1/2 m

02 44 W

4 1/2 m

01 04 W

01 25 W

0 50 W

0 28 m

1 13 W

2 06 W

1 48 W

0 44 E

0 58 W

0 22 E

Dome Temp. $+12^{\circ}\text{F}$ H-85%

Focus 90-B

Dome Temp. $+10^{\circ}\text{F}$ H=100%

Transparency Conditions

Excellent

196

*Birdal called
about Imperial lights*

slight low haze

* At middle of Box #3

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18:02	A	00 43 W	+42 43	2-3	3.63	B6p	no filter 3-5-5	Shell-B/L	40/80	TV used *	Fine
19:06	B	01 47 W		"	"	"	5-5-5	"	40/160	" *	Fine
		4 1/2 min @ $67\frac{1}{2}^{\circ}\text{F}$ N ₂ burst		10 sec	.7 sec		Dec 26/75			*	
20:03	C	02 44 W		2"	3.63	B6p	no filter 5-5-5	Shell-B/L	40/140	1975 CAP OV 42.1 * 50 3x **	Fine
		4 1/2 min @ $67\frac{1}{2}^{\circ}\text{F}$ N ₂ burst		10 sec	.7 sec		Dec 26/75			**	
23:11	A	01 04 W		2-3"	5.1	B8p	no filter 4-4-4	Shell-G1	200/610	** Far right Box #3 **	Fine
23:32	B	01 25 W		"	"	"	8-8-8	"	200/105		Fine
00:44	C	0 50 W		3-4	6.32	B3p	7-7-7	Bp-B/L	400/140		Fine
		Dec 8 min @ 68°F N ₂ burst		10 sec	.7 sec		Dec 26/75				
01:07	A	1 13 W		2-3	3.51	09.5V	no filter 4-4-4	SpBin-B/L	40/270	**	Fine w. sl. guiding
01:40	B	2 06 W	+33 44	1-2'	5.8- 6.5	Ap	7-7-7	Ec/Bin-B/L	400/140	HR Aur	Fine
03:03	C	1 48 W	+42.22	1"	6.61	A0	8-8-8	Ap - MR	400/180	(Good TV guiding at 2 frames)	Fine
05:03	A	0 44 E	+59 48	1-2'	8.0	A1	8-8-8	Am - MR	400/200	close vis bin	Fine VSL guiding
06:59	B	0 58 W	+24 09	2"	8.24	G2V	7-7-7	S SV-Hd	800/250	fld checks	Fine
07:17	C	0 22 E		1"	2.27	A2V	4-8	A225	40/110	** fainter one H.D. 100054f	Fine

Wx
*Note

IIa-o-e 03095-12125

Date Tuesday Dec 23-24/5 Observer Wm / Dr - 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.
40245	HD 201540	21 24.2	25 31	G12	IIa-o-e	13/3		17 35		A
Archie →	RA Clamp not working - probably ice crystals on contact									
Extra	IIa-J from Box #2 Labelled "old IIa-J" put in Exposed Box									
40246	HD 37956	05 37.1	+29 10	G12	IIa-o-e	13/3		23 27	2 42	A
40247	HD 67402	08 02.7	27 47	"	"	"		2 47	6 04	B
40248	Cal for 40246-48			90sec	"			-	-	
40248	HD 112014	12 48.3	+83 58	G12	"	13/5		6 12	7 09	C

Dome Temp.

Focus 96

Dome Temp.

Hour Angle

End

15!

to

2/51 W

3 50 W

8m 66

0 10 W

Dome Temp. 10°F H=80%

Focus 90-B

Dome Temp. 50°F H=80%

Transparency Conditions

Clear again by 23¹
very good

198

Something like
a Fire ball reported
17:15 in NNE bright white

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
			8.44	K2117-				Clouds + over	
ts!	Tn								
to test for fog.								Test old (discard)	1 Fog
2/51 W	+29 12	3-5"	K1m	7.96	7-7-7	SSV-Hd	800/260	FH Drawn	Fine
3/50W	+27 34	"	K0111	8.17	7-7-7	"	800/246		Fine
8min @ 68°F N2 burst 1000, 7 min Du26/75									
0 10W	+83 33	4-5"	A0	5.84	7-7-7	SpBin-Blk	200/60	Not pair	Fine
								TV system not as good as other night.	
								→ Eliminated Sec. Converter for last Exp.	

IIAF E - 03075-03125
IIAO-E - 03094-12125
IIAJ-E - 03075-22123

Dome Temp.
Focus142
Dome Temp.

Hour	Angle	End
02 ⁴	02 ⁴	02 ⁴
03 ⁷	03 ⁷	03 ⁷
04 ¹²	04 ¹²	04 ¹²
04 ¹⁵	04 ¹⁵	04 ¹⁵
4 ¹	4 ¹	4 ¹
8 ^{mm}	8 ^{mm}	8 ^{mm}

Mo-J-e 03075-22125

IIa-o-e 28115-22125

Date Sun-Mon Jan 4-5 1976 Observer Tor-Ta Julian Day 174.5

[illegible]

Dome Temp. $+10^{\circ}\text{F}$ H=9270

Transparency Conditions *Very good photometric*

202

[illegible]

Ma-J-e 03075-22125

II 9-0-e 28115-22125

Date Mon-Tues Jan 5-6 1976 Observer MR-Tn/But-Tn Julian Day _____

[illegible]

Dome Temp. 16°F H=72

Focus 90-B

Dome Temp.

Transparency Conditions Very Good

→ hazy

204

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
8 05	A	01 44 W	+42 14	1.2"	3.63	B6p	^{no filter} 5-5-5	Shell-B1n	40/70	* At right of box *	Strong
		Dew N2 burnt D19 4 1/2 min @ 68°F									
9 36	B	01 55 E		1.3"	6.11	B8	^{filter in} 8-8-8	Ap-MR	400/140	easily seen with TV alone	Fine
10 02	C	00 29 E		"	"	"	8-8-8	"	400/140		Fine
	A	Dew N2 burnt D19 8 min @ 68°F									
3 07	A	02 09 W			6.87	B-9	7-7-7	"	400/153		Fine
10 42	B	03 13 W		1.2"	6.11	B8	8-8-8	"	400/140		Fine
10 31	C	09 24 W	+44 02	2"	7.51	A1	7-7-7	Am-MR	400/147	slow - no TV	
10 52	A	05 38 W		"	6.61	A0	7-7-7	Ap MR	400/90	int of TV slightly working	
11 30	C	00 10 E	+55 03	"	2.27	A2V	^{no filter} 5-5-5	A 225*	40/132	Cloud by 9 AM	sdg sl wtk sl gng Strong
		Telescope started oscillating at							A 40W	* for 20 min	

Da-O-C 28115 -22125

Dome Temp.

[illegible]

Dome Temp.

206

[illegible]

IIIc-J-e 03075-22125

Date Fri-Sat Jan 9/10 1976 Observer Tn-Mor/Tn-W+M Julian Day

[illegible]

Dome Temp. 10°F H 98%

208

[illegible]

Παο,Σ 28115-22125

ИАО Е* 28115 - 07016

Date Wed Thn Jan 14-15 1976 Observer Bur-R Julian Day 2443880.5

[illegible]

Dome Temp. 20°F 85%

210

[illegible]

211

IIaOE 28115-07016
 IIIaJ-E 03095-09016

Date Fri - Sat Jan 16-17 1976 Observer W.H. - R. // R. - Moe 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.
40283	HD 217675	22 ^h 57 ^m 19 ^s	+41° 42'	G-12	IIIaJ-E	9/9	28°F	17:52	19:00	A
40283T1	cal step wedge for plate 40283				IIIaJ-E	180 sec				
40284	HD 14392	02 ^h 14 ^m 24 ^s	+49° 42'		IIa-OB	9/9		20:52	23:04	B
40285	HD 34364	05 ^h 11 ^m 48 ^s	+33° 39'		IIa-OE	13/5		23:10	00:24	C
40286	HD 37479	05 ^h 33 ^m 42 ^s	-02° 39'		IIa-OE	13/5		00:30	01:42	A
40287	HD 86590	09 ^h 54 ^m 24 ^s	+25° 02'		IIa-OE	20/3		01:51	04:30	B
40287T1	cal step wedge for plates 40284-88				IIaO-E	90 sec				
40288	HD 112014	12 ^h 48 ^m 16 ^s	+83° 58'		IIaO-E	13/5		04:49	05:54	C
40289	HD 116656	13 ^h 19.9	+55° 27'		IIaJ-E	9/9		06:02	06:25	A
40289T1	cal step wedge for plates 40289-90				IIaJ-E					
40290	HD 130109	14 ^h 41.2	+02° 19'		IIIaJ-E	13/5	4°F	06:35	07:05	B
40290T1 ✓	comparative target	normal			IIIaJ-E	9.5				C
40290T2 ✓	"	2x			IIIaJ-E	9.5				A
40290T3	"	4x			IIIaJ-E	9.5				B
40290T4	"	8x			IIIaJ-E	9.5				C
40290T5	"	normal			IIIaJ-E	9.9				A
40290T6	"	2x			IIIaJ-E	9.9				B
40290T2	"	4x			IIIaJ-E	9.9				C
40290T8	"	8x			IIIaJ-E	9.9				A

Dome Temp.

Focus 0

Dome Temp.

Hour Angle
East

Dome Temp. -20°F 73%

Focus 0

Dome Temp. +03°F 86%

Transparency Conditions windy & foggy

212

T.V. system worked fine

to overexpose

exposed Box #1

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:00	A	03°28W	+42°13'	3-4	3.63	B6p	5.5 ^{no filter}	slu *	40/80	R.H.S. of Box windy star oscillating in dec. R.H.S. of Box clouds & snow	grinding sl weak
		Dw D19	8min 068°F	N ₂ burst	.7 dm	10 int					
9:04	B	04°10W	+50°05'	4-5	5.44	Ap si	7.7.7	Ap Blu	40/320		fine
					5.82						
9:24	C	02°32W	+33°45'		6.49	Ap	7.7.7	Fcl. Bin/Blu	400/160		fine
9:42	A	03°30W	-02°32'		6.32	B3p	7.7.7	Bp Blu	400/50	with 9.4	sl weak
9:43	B	01°57W	+24°42'	4	7.91	d65	7-7-7	Sp. Bin-Blu	800/200		sl weak
		Dw D19	8min 068°F	N ₂ burst	.7 dm	10 int					
9:54	C	00°30W	+83°34'		5.81	A0	7.7.7	Sp Bin-Blu	400/160		Fine
9:57	A	00°29W	+55°02'		2.27	A0I	5-5-5 ^{no filter}	A025*	40/110	R.H.S. of Box	fine
		Dw D19	4 1/2 min 668°F	N ₂ burst	.7 dm	10 int				R.H.S. of Box	
9:01	B	00°13E	+02°03'		3.74	A0II	5-5-5	Sp Bin-Blu	40/50	R.H.S. of Box	Fine
	C						15 sec ✓				
	A						30 sec ✓	R.H.S. of Box		R.H.S.	
	B						60 sec ✓	" "			
	C						120 sec ✓	" "		exposed Box Lid was	
	A						15 sec ✓	" "		up on one side for	
	B						30 sec ✓	" "			
	C						60 sec ✓	" "		a second or two with the	
	A						120 sec ✓	" "		lid on	

IIaD-E 28115-07016
IIIaJ-E 03075-09016

Dome Temp. 54
Focus 503
Dome Temp. 71

[illegible]

Dome Temp. -10°F 75%

Transparency Conditions *swelling + cold*
with pen sears
** R.H.S. of Box ~~#~~ 1*

214

Ending Time EST.	P.R.	Hour Angle End.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:55	A	03 ^h 16 ^m W	+28° 28'	3	7.50	G9 ^{III}	7-7-7	^{Link 2} S.S.V. Hd	800/240	Hd SSU Link 2 Lt. at 40	sl. quaking fine
22:38	B	W 3 40	+29 48"	3	8.32	G5 ^{III}	7-7-7	"	800/180	Lt. at 49	sl. quaking sl. weak
20:45	C	00 ^h 59 ^m W	+26° 46'	3	7.70	G7 ^{IV}	7-7-7	"	800/240	good image Lt at 40	fine
		Dw D19 8 mi Q68°E		W. burst	7 den	10 int					
23:20	A	02 ^h 44 ^m W	+27° 35'	3	8.17	K0 ^{III}	7-7-7	^{Link 2} S.S.V. Hd	800/240	? good image Lt at 45	Fine
06:15	B	03 ^h 45 ^m W	+24° 42'	3-5	7.91	d65	7-7-7	Sp 13u-13lu	800/800	no TV, the indent	sl. weak
07:10	C	00 ^h 45 ^m W	+18° 33'	5	3.28	G0 ^{IV}	^{fill} 5-5-5	Br. Delta Ray	40/130 *	? to the prism is longer	fine
		Dw D19 4 1/2 mi Q68°E		W. burst	7 den	10 int no fill 3-3				in place so you can't position it	sl to Blue

Dome Temp.

215

~~exp~~ approx Bar^T 3

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
8 19	A	02°50W	+42°13'	2"	3.63	B6p	^{w filter} 5-5-5	Sleeve	40/90	RHS. f2 good image ltr at 13	sl guiding fine
9 12	B	00°44E	+16°09'	2"	7.12	F8	7-7-7	Hyaads Bin Prog. Trn	400/140	good image ltr at 45	sl strong
11 39	C	00°20W	+13°38'	2"	6.77	F5	7-7-7	"	400/140	good image ltr at 45	sl strong
13 14	A	02°27W	+16°27'		7.44	F8V	7-7-7	"	400/140	good image ltr at 45	fine
15 44	B	03°24W	+13°39'		6.77	F5	7-7-7	"	400/140	" " "	sl strong
	E				7.91	dG5	7	sp. bin 36	800/	" " " 65"	
		Dew 4 1/2 mm	- D19 068°F	Neb mist						clouded out	
5		Dew 8 mm	"	"	"	"	"	"			
B	B										altered
	A						2 min			These plates show	
J	B						2 min			weak comp lines in star	
Y	C						2 min			window and beyond	
	A						2 min			outer tips of strongest	
	B						2 min			& I lines, origin unknown	
Window	A	HEAD with filter					2 min			- scattering or diffraction inside spectrograph	
										This is not new, since note that test plates May 9/69 + 35842Tg also show the effect	

Date Wed - Thur Jan 21/22 76 Observer Bert - Tr Julian Day 172.5

[illegible]

Dome Temp.

Transparency Conditions

218

[illegible]

IIa-0-e 28115 - 18016 From new Mi Box
* IIa-1-e - 20016 only evacuated
For Tests

Date Sat-Sun Jan 24-25 76 Observer TJ - Winter/ao ^{later} Julian Day

[illegible]

Dome Temp.

then cloud by 0:30

* Push - at Far Left of Exp Box.

226

[illegible]

* 03075-00000

Observer: B. In

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

222

[illegible]

Fri - Sat

II a-0-e 03094-25016
III a-j-e -20016

Date 30-31 JAN - 1976 Observer Tn-Nytn / Tn-Mor Julian Day 173.5

[illegible]

Dome Temp. 14°F 86%

Focus 90-B

Dome Temp.

Transparency Conditions

Very good - sl haze

229

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:05	A	02 58 W	+16 10	3-5	7.14	F8	6-6-6	Sp Bin - Bln	400/110		vsl wtk
		Dew 8mm	No Burt	D19	.7	data	10 sec int				
3:52	B	02 11 W		2-4	5.16	B2 IV	6-6-6	shell star	200/70		st gng Fine
2:52	C	01 13 W		2-3	7.91	dG5	6-6-6	Sp Bin - Bln	800/160	some cloud	vsl wtk
		due to 20 min screw up at the begin (not many counts 1st 20 mins)									
4:32	A	00 03 W	+83 33	2-3	5.81	A0	6-6-6	Sp Bin - Bln	200/70	North Star of pair	sl strong
5:15	B	00 45 W		"	5.3	A2	6-6-6		200/70	South Star Cloud	sl Strong
5:55	C	00 53 W		"	2.27	A2 V	5-5-5	A225	40/110	thru cloud * At Right	sl Strong
	A	Dew 4 1/2 mm	D19 No Burt	.7	data	10 sec int				"	*
6:30	A	01 29 W		2"	3.8	A2	6-5-7		40/24	cloud & smog	Fine

03094-25016

Julian Day.

[illegible]

Dome Temp. $+5^{\circ}\text{F}$ $H=90\%$

Transparency Conditions *Some thin cloud* *High winds* ²²⁵

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	TV Frames	Quality
0 02	A	0 22W	+ 22 24	3'	6.1	B8	7-7-7	Ap-MR	400/120	cloud & snow	2x	Fine
0 05	A	1 38 W	+42 22	2-3	6.61	A0	7-7-7	ApMR	400/175		2x	Fine
2 35	B	1:08 W	+24 42	"	7.91	165	5-5-5	Sp Bin-Bln	400/105		4x	Fine
5:05	C	0:14 E	+42 19	2"	6.69	A1	6-6-6	Am MR	400/90	cloud	2x7	gung sl wR
										Tel want stay in Dec c wind has calmed down some. !??		

IIa-O-e 03094 - 25016
IIa-J-e - 20016

Date 45 Feb 1976 Wed-Thurs Observer Sho-Tn Julian Day 175

[illegible]

Dome Temp. 20°F H=6570

Focus 9.5-R

Dome Temp. 15°F H=8570

Transparency Conditions very good

228

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:49	A	2 07 W		2-4	5.44	Ap. Si	7-6-7	He Si	200/135	6.3 And	Fine
20:14	B	0 17 W	-2 32	"	6.32	B 3p	6-6-6	He Si	200/58	8.0 rre - cloud	Fine
	C	Dec 8 1/2 min DIA W2 burst... 7 dm ... 15' int. = 68°F									
21:30	C	0 33 W			3.51	095 V	7-7	75p Bin-B/L	20/60	cloud	Fine
21:38	A	0 25 E			-1.6	A0	9-10		40/23	(26. 44.1 8-16 41) 1976	quadriz
21:53	B	0 11 E			"	"	6-9 no filter		40/99		Fine
22:15	C	1 57 W	+25 41				8-8 70 filter		40/170		sl. str.
		Dec 4 1/2 min DIA W2 burst... 7 dm ... 68°F									
22:50	A	0 32 W					7-7-7		40/25		Fine
00:01	A	4 23 W		3"	5.8- 6.5	Ap.	6-12	Ec/Bin-Sho	400/65	cloud again	quadriz weab

Hav-E 03094-25016
 WASTE - 20016

Dome Temp. 24
Focus 103
Dome Temp. 11

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

12.4

Dome Temp. 24°F 74%

Transparency Conditions

Dome Temp. 120°F 86%

- * R.H.S. of Box overdevelops

exposed Bar #1

230

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:47	A	05°35W	+42°15'	3	3.63	B6p	no filter 5-5-5	Steel YBl	40/68*	* clouds, clear, clouds	Fine
22:47	B	02°17W	+33°38'	3	5.92- 6.49	A p	7-7-7	Ecl. Bin-Bln	400/160	clouds Broken 3 pieces dew by hand D19 068°F	Fine
00:43	C	00°52W	+19°44'		6.38	A m	7-7-7		400/160	* clouds & snowflurries	Fine
			Dew 8 min D19 @ 68°F			N2 burnt	.7 dm 10 int				
			" "			" "	" "				
03:05	A	00°58E	+83°34'		5.81	A O	7-7-7	Sp Bin-Bln	400/148	north	slight guiding
03:37	B	00°25E			5.3	A2	7-7-7	Sp bin-Bly	400/150	south new box of Platin	sl weak
04:00	C	00°35E	+55°06'		2.27	A2U	5-5 no filter A225*		40/110*	RHS.	sl guiding Fine
05:44	A	00°49W	-15°32'	5"	6.15	A O	7-7-7	Sp Bin-Bln.	400/140	the top of P.H cane loose	2 plates in black
06:45	B	01°15E	-15°34'		6.19	A3	7-7-7	Ecl. Bin-Bln	400/110		sl weak
			Dew 8 min D19 @ 68°F			N2 burnt					

Date 8/9 FEB. 1976 Observer Tnr / Ri Julian Day 172.5

[illegible]

Dome Temp. 28°F

NO T.V System for the first half of the night

Transparency Conditions *lazy*

232

[illegible]

IIaJ-E 20016
IIaO-E 28115-08026

Dome Temp. 3
Focus 2 R
Dome Temp. 3

Hour	Angle	End
09 ⁴⁵	25E	+
01 ¹⁵	55E	
02 ³⁰	5E	
04 ¹⁵	15W	
06 ⁵³		

Dome Temp.

Transparency Conditions

234

[illegible]

235

IIa-Fe 03075-19026

IIaOE 18016-05026

IIaOE* 28115-08026

Date Sat/Sun Feb 14/15 1976 Observer CM - B. J.

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.
40340	HD 32092	A ^h 55.6	+12 32'	G-12	IIaOE	13/.5	32°F	19 16.	22 51	A
40340 T	Cal Step Wedge		90 sec		"	for 40340				
40341	HD 74874	B 41.5	+6° 41'	G-12	IIaOE*	"	30°F	22:59	23:27	B
40342	HD 79469	A ^h 09.2	+2° 44'	G-12	IIaOE*	9/.5		23:38		C
40341 T1	Cal Step Wedge		90 sec		IIaOE*	for 40341		(labelled 42T)		
40341 S1-1	Spot Calibration		exposed 20/2/76	IIa-Fe	3		15 ^h	10 ^m		
S1-2	"	"	"	"	"	"		"		
S1-3	"	"	"	"	"	"		"		
S2-1	"	"	"	"	"	2		"		
S2-2	"	"	"	"	"	"		"		
S2-3	"	"	"	"	"	"		"		
40341 T2	Cal. step wedge		5 ^m		"					
T3					"					
T4					"					
T5	Cal. step wedge		150 ^s		"					
T6					"					
T7					"					

-05621
-08026

Dome Temp. 35°F 73%

Focus 70-R

Dome Temp.

Transparency Conditions VERY HAZY - THIN CLOUD

23C

NO T.V.
-Not integrating

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
22 51	A	3 ^h 10 ^m W	+26 42	5"/3"	7.28	F5	7-7-7	Close Obj Bin (broken)	800/500	Cloud	Fine
22 57	B	00 00	+06 34	3 1/4"	3.98	F8	7-7-7	"	400/202	thick haze	Fine
	C				3.82 3.5	B9.5 7-		bin bright spec. binary		about 10° from full moon	
23 1										Cloud!! Closed 00:10	
							Hx		15 V	Dew D19 4 1/2 am @ 65°F	
							"		"	No band	
							"		"		
							"		"		
							"		"		
							"		"		
							"		"		
										Warren	
										Box #6	
										Plates 28115-08026 are	
										slightly too long - barely	
										fit in plateholders.	

II-a-F-E 03075 03/25
II-a-O-E 28115 - 08026

Dome Temp. $\frac{1}{2}$ 100
Focus $\frac{1}{2}$ 100
Dome Temp. $\frac{1}{2}$ 100

[illegible]

Dome Temp. 85.3

238

TV is working

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	VOLT/INT	REMARKS	Quality
10:09	A	0 ^h 37 ^m 43 ^s	+34 46	5"	5.82 -6.49	Ap	7-7-7	Ecl. Bin-Bin	200/68	42/16	RHS BOX-1	sl guiding Fine
		Dew D19 8 min		26.3°F		by hand						
3:42	B	02 57 ^m 42 ^s	+20 15	5"	4.04	B7IVe	5-5-5	Sp. Bin-Bin	40/45	30/12		comparson a little stars Fine
10:28	C	03 40 ^m 40 ^s		"	"	"	5-	"	40/34	"	High Humidity	box 1 Fine
		Dew D19 4 1/2 min		26.5°F		by 1/2 hand						

239

IIa-Fe 03075-03125

IIIaJ-E

IIaO-E 28115-08026

Date 22/23 FEB 1976 SUN/MON Observer Bla-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
40345	HD 47105	06 31.9	+16°29'	G16	IIa-Fe	13/5	28°F	19:16	21:35	A	01°50' +
40346	HD 47105	06 31.9	+16°29'	G16	IIa-Fe	13/5		21:36	21:49	B	01°03' +
40347	HD 47105	06 31.9	+16°29'	G16	IIa-Fe	13/5		21:50	22:33	C	01°49' +
40347T1	cal step wedge for plates 40345-40348				IIa-Fe	5 min					Dis 4/6
40348	HD 47105	06 31.9	+16°29'	G-16	IIa-Fe	13/5		22:34	22:53	A	01°08' -
40348T1	cal step wedge for plates 40345-40348				IIaO-E	G16 grating tilted down				B	max
40349	HD 80495 L Lync 8 UMa	09°14'58"	+34°49'	G12	IIaO-E	9/9		23:35	00:31	C	01°02' -
40350	HD 82328 YUMA	09°26'10"	+52°08'		IIIaJ-E	9/9		00:36	02:17	A	01°27' +
40351	HD 103287 8 UMa	11°48'34"	+54°15'		IIIaJ-E	9/9		02:21	03:03	B	01°02' -
40352	HD 106591 L DRA	12°10'29"	+57°35'	G-12	IIIaJ-E	9/9		03:09	04:35	C	01°12' +
40353	HD 137759 P Sco	15°22'42"	+59°19'	G-12	IIaO-E	9/9		04:41	05:30	A	01°03' +
40354	HD 144217	15°59'37"	-19°32'	G-12	IIIaJ-E	9/9	160°F	05:42	06:32	B	01°02' -
40354T1	cal step wedge				IIIaJ-E		180°C				Dis 4/6
40354T2	cal step wedge				IIaO-E		90°C				Dis 3/6

Dome Temp. 20° 81%

Focus 85R

Dome Temp. 100° F 81%

Transparency Conditions good but poor seeing....

240

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	VOLT/INT.	REMARKS	Quality
1:35	A	00 ^h 50W	+16° 27'	4-5	1.93	A0IV	^{no filter} 5-5-5	std. star	40/400	2.2/4	clouds	R.H.S. plate upside down
1:49	B	01 ^h 03W	+16° 27'		1.93	A0IV	5-5-5	std. star	40/50	3.6/6		R.H.S. Fine
2:33	C	01 ^h 49W	+16° 27'		1.93	A0IV	5-5-5	std. star	40/200	3.6/6		R.H.S. Fine
		Dec 4 1/2 in DIA 265°F										R.H.S. Fine
2:53	A	02 ^h 08W	+16° 27'		1.93	A0IV	5-5-5	std. star	40/100	4.6/20		R.H.S. Fine
	B	maximum amount					20 sec					
3:31	C	01 ^h 02W	+34° 31'	5-8	4.71	M0III	^{no filter} 7-7-7	Bug Star Prog	40/45			Fine
3:17	A	02 ^h 27W	+51° 50'		3.65	F6IV	5-5-5	Bug Star Prog	40/130		middle of Box	Fine
3:03	B	01 ^h 02W	+54° 52'		2.44	A0I	5-5-5	" " "	40/107		middle of Box	Fine
3:35	C	02 ^h 13W	+57° 12'	8	3.37	A3V	5-5-5	" " "	40/105		middle of Box	Fine
3:30	A	00 ^h 03E	+59° 04'		4.46	K2III	7-7-7	" " "	80/75			Fine
3:32	B	00 ^h 20W	-19° 39'	5-8	2.56	B0.5V	^{no filter} 5-5-5	" " "	40/95		middle of Box	sl weak
		Dec 4 1/2 in DIA 265°F									middle of Box	
		Dec 3 in DIA 265°F					by hand					

241

Dome Temp.

Focus

Dome Temp. _____

Hour Angle
End

D 49 W

Transparency Conditions

242
poor - clouds at first.

Dome Temp.

[illegible]

FLC D. E 28115-02026

Dome Temp. 44
Focus 60
Dome Temp.

[illegible]

Dome Temp.

244

[illegible]

Dome Temp.

245

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
								Ap 5th		No Such Plate	
			exposed 28/2/76				Hx		10 ^v	Dev 67°F D19 N26	
			"				"		"	4 1/2 min .7 dur 10 int	
			"				"		"	8 pin	
			"				"		"		
			"				"		"		
			"				"		"		

247

Date FEB 28/29 SAT/SUN

Observer

Waterloo

Cal / Hu

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
40357	HD 38670	5 ^h 42 ^m 4	+20° 50'	G12	IIaO-E	13/5		19:07	21:03	A	(19) 1
40357 ¹	Calibration	Star Wedge			IIaO-E			90 sec			
40359 ⁸	HD 74874 AB	8 ^h 41 ^m 5	+6° 47'	G12	IIa-OE	B/5		22:58	23:16	B	0.48
40359 ⁵⁹	HD 87822	10 ^h 02 ^m 5	+32° 06'	G12	IIaO-E		32	23:29	01:03	C	1:25 11
								Approx D	<u>01 24</u>		
								-1 21			

100% H at end

Transparency Conditions

hazy, intermittent
cloud.

248

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2/28	A	1:30 W	+20 55		5.02	B9	77-6	Close Vis Bin (Bakos)	400/107	clouded out (over developed) plotted	* Fine
						Dev	8mi	219 N ₂ burst 68°F			1200
23/6	B	0.48 W	+6 35	1-2	13.0	F8	77-7	Close Vis Bin (Bakos)	400/200	clearing	slatrons
4/28	C	1.25 W	31 45	2-3	16.6	F5	77-4	"	400/119	field drawn - haziness moving in <u>cloud</u> !!	* Fine
7/24								Dev DR 12mi N ₂ burst 68°F		← over develop ↑ both at right end of box	

244

Date Mar 4 1976Observer 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.
40389 T1	grating told test			G-12	IIaFe	13				A
40359 T2	"				IIaFe					B
T3	"				IIaFe					C
T4	"				IIaF					A
T5	"				IIaF					B
T6	"				IIaFe					C
T7	"				IIaF					A
T8	"				IIaF					B
T9	"				IIaF					C
T10	"				IIaF					A
T11	"				IIaF					B
T12	"				IIaF					C
T13	"				IIaF					A
T14	"				IIaF					B
T15	"				IIaF					C

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.

Transparency Conditions

250

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A						<i>no film</i> 15 sec	0.000 B			
	B						15 sec	0.100 B			
	C						"	0.200 B			
	A						"	0.300 B			
	B						"	0.400 B			
	C						"	0.500 B			
	A						"	0.600 B			
	B						"	0.700 B			
	C						"	0.800 B			
	A						"	0.875 B		<i>limit of grating tilt</i>	
	B						"	0.475 B			
	C						"	0.450 B			
	A						"	0.425 B			
	B						"	0.375 B			
	C						"	0.350 B			

251

28115-20026

Date Mar 6-7/76 Sat-Sun Observer Tn Julian Day 171.5

[illegible]

Dome Temp.

Transparency Conditions Semi clear, then solid cloud 252

[illegible]

253

Dome Temp. ...
Focus 90
Dome Temp. ...

Hour	Angle	End
2	13W	
0	30E	
Du	6	
	12	

Dome Temp. 22°F

254

[illegible]

255

Dome Temp. _____
Focus 90
Dome Temp. _____

Hour	Angle	End
2	23 W	
	Dw 8	
1	27 W	
	1 20 W	
2	15 W	
1	9 W	

Dome Temp. 20°.....

Transparency Conditions

clear with cld. f. very

SAW comet West-
very long tail 5°

25B

[illegible]

Em 28115-20026

Dome Temp. 5

Focus 91

Dome Temp. _____

Hour Angle
End

2/6

Dome Temp.

Transparency Conditions Cloud by 20h from South

[illegible]

Πο-Fe Em 03075-04036

Dome Temp. 38.

Focus 107

Dome Temp.

[illegible]

Dome Temp.

Transparency Conditions *H929*

260

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1 31	A	2 57 E	+29 14	2.4	3.66	F _p	^{no filter} 4-6-5	A _p + Shd	200/690	some cloud from N	Fine
2 27	B	2 01 E	24	2.4	1	"	^{no filter} 5-5-5	"	200/400	Gr set .55B * At Far right	Fine
										Prob underexposed - note Ep meter badly unbalanced * box # 3	
	B						3/3			21975 12 29.6 / 5 +24 47	

По-Ос Em 28115-08036

Dome Temp.

Date Thurs 11/12 MAR 1976 Observer B/L-Tg Julian Day 173

[illegible]

Dome Temp.

Comet West looks good still
Long tail = 5°

[illegible]

* Em 28/15-20026
** Em 28/15-08036

*** Em 28/15-08036

Dome Temp. 1

Focus 20

Dome Temp.

[illegible]

Dome Temp.

Transparency Conditions *Very good*

254

[illegible]

265

IIa-O-e Em 28115-08036
 IIa-F-e Em 03075-14036

Date Mon-Tues Mar 15-16 Observer MR-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.	How Angle End
40389	HD27295	4 13.5	+20 54'	G12	IIa-O-e	13/5	30°F	18 56	19 20	B	220 W+
40390	HD26571	4 7.0	+22 09	"	"	9/5		19:22	20:52	C	359 W+
40390T	Cal for 40389-90			90sec	"						
40390T1	Past Zero	5 & 3/25	Turns	G16	IIa-F-e	13/5	27°F			A	Bottom-
T2	Zero	0								B	Zero
T3		4	Turns							C	
T4										A	
T5										C	
T6										A	
T7										B	
T8										C	
T9										A	
T10										B	
T11										C	

~~G16~~ HB on 7/8 inch from blue.

Dome Temp.

Focus 90

Dome Temp.

Dome Temp. 25°F

288

400?

[illegible]

✓ 267

Dome Temp. 2

Focus *20*

Dome Temp.

Date Tues-Wed Mar 16-17/76 Observer Tn

Julian Day

[illegible]

Dome Temp.

Transparency Conditions Clear by 20:30 but snow blowing in 268

[illegible]

IIa OF 28115-08036
~~IIa J-2~~ 03075-05026

Dome Temp. ...

Focus

Dome Temp.

Hour Angle
End

2646

• 5

Dome Temp. 180F 68%

Focus 20 R

Dome Temp. 180F 90%

Transparency Conditions clean first half

scattered clouds second half

TV system working well exposed Box #1

270

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
10:59	A	02 ^h 47 ^m W	-020 301	4"	6.32	B3P	7-7-7	He Si	400/125		sl weak
11:49	B	03 ^h 37 ^m W		4"			7-14	He Si	400/65		weak
11:45	C	02 ^h 07 ^m W	-120 50		4.51	B3V	^{no filter} 5-5.5	Bin Blu	40/83	RHS <u>clouds</u>	Fine
11:30	A	03 ^h 02 ^m E	+290 47		5.02	A0IIp	7-7-7	Ap Sho	200/80		Fine
	B						7	"	200/	total cloud	
		Des 4 1/2 mi Dis 668°F				N2 band					
		" 8 mi				"					

Date Sun 21 March
Mon 22 1975

Date _____

Mon 22 1975

Observer

R.

Julian Day

IIOP 28115-17036
HJF 0375-05026

[illegible]

Dome Temp. 15°F 84%

Transparency Conditions *lazy and very poor seeing*

272

TU system works OK

[illegible]

IIaO-E 28115-17036
IIaJ, E 63075-05026

Date Mar - June 1976 Mar 22-23 Observer MR - Ri / BG - R Julian Day 2442860

[illegible]

Dome Temp. 300°F 95%

Transparency Conditions good

274

COMET WEST: 2-3" tail ~ 4th

[illegible]

Date ^{Wed} ~~Thurs~~ Mon Mar 23/24/1975 Observer R. Tamm Julian Day

[illegible]

Dome Temp.

Transparency Conditions *1034*

276

Focus *822*Dome Temp. *40°F 88%**T.V. system ok for bright stars*

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:33	A	01°55W	+28°50'	3-4	8.36	K2III	777	S.S.U. Hd	800/290	star too faint of TV	Fine
01:55	B	00°15E			8.74	F8II	7-14	"	800/50	hazy, get to check	wk
03:14	C	01°03W	+49°40'		6.8	M2	7-77	Star V.I.	400/162	29/4.0	Fine
05:05	A	01°10W	+28°44'		8.81	G0II	777	S.S.U. Hd	800/100	curious clouds again at 05:00	wk
Dew Rem. @ 68°F & 19 N ₂ burst.											
										Warren push the right plates	

Д-0-е 28115 - 23036
Ш-1-е 03075 - 23036

Dome Temp. _____
Focus 50
Dome Temp. 3

Hour	Angle	End
1	44°W	-2
	Dec	Dec
3	23°W	-2
		Lo
5	0°W	+12
	1	+8
	1	Br
10	51°W	+8
	1	22°E
		+10
10	21°W	-15

Dome Temp. 50°F H=6570Focus 50-R Dome Temp. 37°F Transparency Conditions Very good sl haze 278Corona Extreme 3^hBrt Aurora 20°
Corona $\rightarrow$ 1:30 very bright

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:29	A	144 W	-2 27	3.5"	3.51	095 V	5-5-5	Sp Bin-Bln	40/55	3 At Far right of Box ^{to}	wk
		Dev Di9 4 1/2 min @ 68°F Ne Point									
21:04	B	3:23 W	-2 26	2.4"	6.32	B3p	7-7-7	He 8i	200/70		gng
21:30		Looked at Saturn Ast 100 Tour Dev Di9 8 min @ 68°F Ne Point									
23:11	C	5 0 W	+23 17	2.4"	5.98	B25 66-6-6		Hu Comp	200/120	cloud	Fine sl gng
23:26	B	+83 39	2-3	5.28	A2	7-7-7	Sp Bin-Bln	200/70	cloud + aurora		
01:00	B	00 59 W	+83 39	2-3	5.81	A0	7-7-7	Sp Bin-Bln	200/60	more cloud & aurora	vis/wk
04:23	C	1 22 E	+14 34	"	6.07	Am	777	Sp Bin-Bln	400/140	cloud "	vis/wk
05:11	A	00 21 W	-15 26	3"	6.19	A3	6-6-6	Sp Bin-Bln	400/150		Fine
										Comet West still visible easily thru aurora with binoculars (tail too)	

Πα-Ο-ε 28115 - 23036

Dome Temp.

302W+

Dome Temp.

288

[illegible]

Em Ша-1-е 03075-23036
Па-0-е 28115-23036

Date Sun-Mon Mar 28-29/76 Observer T.N.

Julian Day

[illegible]

Dome Temp. 34°F H=90%

Transparency Conditions

[illegible]

IIIa-J-e 03075-23036

ΠΟ-Οε 28115-23036

Date Fri-Sat Apr 2-3/76.

Observer *mor-Jh*

Julian Day

[illegible]

Transparency Conditions Very good - scattered cloud then

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:22	A	1.54 W	+45 05	2"	1.93	A2V	^{no filter} 6-7-7	Brt Star	40/120	B Aur ** } AT Right box #5 XX }	Fine mag
		Dev 05046	D19	69°F	± 5 min	N ² burst	17 dur 10 sec int				
2:02	C	0 32 W	+24 49	1-3	7.91	dG5	7-6-5	Sp Bin-Bk	800/160	some cloud * } Push	is/wk
3:22	A	1.52 W	"	2-3	7.91	dG5	5-5-5	"	800/92	real cloud * }	sl/wk
		Dev 05046	D19	69°F	± 8.5 min	N ² burst	17 dur 10 sec int			Labelled 3541 (on 5-1)	

285

Dome Temp. _____
Focus 7
Dome Temp. _____

Hour	Angle	End
5	12	W
4	10	W
	Dev	OS
1	01	W
2	17	W
0	42	W
3	23	W
3	30	W

Dome Temp. 39°F 57% H

Focus 70-R

Dome Temp. 34°F 75-80

Transparency Conditions *Photometric*.....

Brt Aurora radiating from WNW
23^h →

286

[illegible]

* IIa-0-e 28115-23036
IIa-0-e* 28115-05046

MR

Date Mon - Tues APR 5-6 / 1976 Observer Gl-Tn/But-Tn Julian Day 174.5

[illegible]

Dome Temp.

Transparency Conditions *very good scattered cloud* 288

[illegible]

Ил-0-е 28115-05046

Date Tues-Wed Apr 6/7 1976 Observer Jen / Tam-T4 Julian Day

Dome Temp. _____
Focus _____ 60 _____
Dome Temp. _____

Dome Temp. 35°F H=9070

290

[illegible]

IIAO-E 28115-05046

Date Wed-Thur Apr 7/8 76 Observer ^{But} GI Ri / But-Ri Julian Day 100

[illegible]

Dome Temp. 32°F 94%

Transparency Conditions Thin Cirrus

292

[illegible]

293

IIaOE 28115-08046
IIaFE 03075 14036Date April 8/9 1976 Thurs Fri Observer Bl-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
40457	HD 38771	05 ^h 43.0	-09°42'	G-12	IIaO-E	9/1.9	36°F	19:26	19:30	A	02°35'
40458	HD 37742	05 ^h 35.7	-02°00'	"	"	"	"	19:34	19:37	B	02°49'
40459	HD 37128	05 ^h 31.1	-1°16'	"	"	"	"	19:39	19:42	C	03°03'
40460	HD 86590	09 ^h 54.4	+25°02'	"	"	20/3	"	19:52	21:46	A	00°39'
40461	HD 112014	12 ^h 48 ^m 16 ^s	+83°58'	"	"	13/5	"	21:57	22:30	B	01°49'
40462	HD 112028	"	"	"	IIaOE	13/5	"	22:35	23:03	C	02°56'
40463	HD 112014	12 ^h 48 ^m 16 ^s	+83°58'	"	"	"	"	23:06	23:33	A	02°45'
40464	HD 130841	14 ^h 45.4	-15°38'	G-16	IIaF-E	13/5	"	23:47	00:18	B	01°38'
40465	HD 135681	15 ^h 11 ^m 18 ^s	-12°40'	G-12	IIaO-E	20/3	"	00:27	01:27	C	02°59'
40466	HD 135681	"	"	"	"	"	"	01:28	02:30	A	00°07'
40467	HD 135681	"	"	"	"	"	"	02:31	03:44	B	02°22'
40468	HD 167771	18 ^h 11 ^m 6 ^s	-18°30'	"	"	20/5	"	03:49	04:55	C	00°27'
40468T1	cal step wedge for plate 40464				IIaF-E	5 mil					
40468T2	cal step wedge for plates 40467-40469				IIaO-E	90 mic					
40469	HD 170000	18 22.2	+77 17	"	"	13/9	32°F	05 01	05 11	A	00 17'

Dome Temp. 33°F = H = 69%

Focus 75R

Dome Temp. 29°F 77%

Transparency Conditions Excellent

294

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:30	A	02°35W	-09°30'		2.86	B0.5I ₂	7-14	Spectra 8Ed	40/28		Fine
9:37	B	02°49W	-01°47'		2.05	69.7I ₆	#2-12	"	40/29		Fine slightly
9:42	C	03°00W	-01°05'		1.51	B0I ₂	12 12	"	40/27		Fine
9:46	A	00°39W	+29°48'		7.91	dG5	7-77	Sp Bin-Bln	800/200		Fine
9:50	B	01°29E	+83°39'		5.81	A0	7-7-2	"	400/150	W pair 6 pair Bunker 3 pairs	Fine
9:53	C	00°56E	+83°38'		5.2	Shell	7-7-7	Bin-Shell	200/85	S 6 pair	Fine
9:53	A	00°25E	+83°39'		5.81	A0	7-7-2	Sp Bin-Bln	400/141		Fine
9:58	B	01°38E	-15°46'		2.89	Am	5-55 no filter	"	40/70	R.H.S. of Box	Fine
1:02	C	00°58E	-12°47'		7.94	A2	7-7-7	Ed Bin-Bln	400/90		Fine
1:02	A	00 07W	"		"	"	7-7-2	"	400/90		Fine
1:03	B	07 22W	"		"	"	7-7-7	"	400/89		Fine
1:05	C	00 27E	-18°18'		6.63	07E	7-7-7	Sp Bin-Bln	400/160		Fine
		April 9 1976	DA @ 68°F	4 1/2 min		N ² burst	7 at 10 sec interval			R.H.S. of Box	
		April 9 1976	DA @ 67°F	8 min			7 at 10 sec interval				
5:11	A	00 17E	+71 25'		4.18	Ap5	7-14	Sp Bin-Bln	40/35		not observed properly at one end

~~Ma~~-E 2815-09046

Date. APRIL 9-10 1976

Observer MOR-Ri / Wt. Ri Julian Day[illegible]

Dome Temp. 38°F 75%

Transparency Conditions

Good second half

295

[illegible]

MADE - 28115-09046

Dome Temp. 44.0

Focus 90

Dome Temp.

Hour Angle
End

0302

01* 074

03'00

6/12/52

10/11

Dome Temp. 22°F 68%

Transparency Conditions *good*

TV system does not work for beans

296

[illegible]

Dome Temp.

Transparency Conditions

300

[illegible]

ITAO-E 28115-09046

Date Turn in 13-14/76

Observer

14d / Ri / Ri Team

Julian Day

[illegible]

Dome Temp. 45°F 70%

Transparency Conditions *Venus Poon*

302
10⁴.2348

Good after midnight.

[illegible]

Πα-Ο-ε 28115-13046

Il-Fe 03075-A036

Date Fri. April 16-17/76 Observer Mor/Tn Julian Day.....

[illegible]

Dome Temp. 80°F H=70% outside

Focus 10 B - 0

Dome Temp. 75°F H=80%

Transparency Conditions Hazy Lazy

304

* Push Lot Far Right of Box #5

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21:37	A	1	2W +24 48	1"-2"	7.91	IG5	6-6-4	Sp. Bin. - Bln	800/165	* Broken ↓ RA reading jump by 5 min East 9:58.6 - 9:59.1	
23:33	B	3	0W +24 50	1'-3'	"	"	5-5-5	"	800/120	* haze - cloud	wk
										*	
1:51	A	0	26W -15 46	2'-5"	2.89	Hm	no Filter 5-5-5	"	200/320	cloud } in middle Box #5	Fine
0:06	B	1	44 W +12 55	1'-3"	6.8	AO	Filter 7-7-5	"	800/165	* Focus To O-r	slwk
	A				6.07	Am	Filter 7-	"			

305

Dome Temp. 7
Focus 10
Dome Temp. 6

Hour	Angle	End
3	27W	
0359W	-	
4	27W	-
0645W	+	
0	32E	+
0212E	+	
0115E		
0	25E	
0	33W	
0	29W	
0230W		

Dome Temp. 79°F $H=608$ Transparency Conditions $\text{Hazy} - \text{Fair}$ Focus $10-B$ Dome Temp. 68°F $H=752$

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:46	A	3 27W		1-2	1.86	BaSiC	11-8	Sp. Std.	40*/23	Tel reversed	Fine sl 917
20:07	B	03 59 W	$-1^{\circ}15'$	1-2	1.51	BO Ia	7-13	Sp. Std.	40*/22	* Gain may have been	Fine 717
20:38	C	4 27 W	$-1^{\circ}59'$	2-3	2.05	O9.7 Ib	12-12	Sp. Std.	40*/12	haze	Fine
22:03	A	06 46 W	$+66^{\circ}15'$	1-3	4.33	MaSiC	12-12	Sp. Std.	40*/290	cloud	vs/wk
22:51	B	0 32 E	$+83^{\circ}37'$	1-2	5.81	A0	7-7-7	Sp Bin - Blw	400/145		Fine
23:08	A	02 12 E	$+12^{\circ}56'$	1-3	6.80	A0	7-7-7	"	400/90	more cloud	Fine
23:15	B	01 15 E	"	"	"	"	7-7-7	"	400/90		"
23:55	C	0 25 E	"	1-2	"	"	7-7-7	"	400/93		"
24:53	A	0 33 W	$+12^{\circ}57'$	2	"	"	7-7-7	"	400/95		"
25:47	B	0 129 W	"	1-2	"	"	7-7-7	"	400/90		"
26:48	C	0 2 30 W	"	1-2	"	"	7-7-7	"	400/90		Fine

Доб-е* 28115-18046 Да-о-е 28115-13046
IIa-f-e 03075-14036

no-f-e 03075-14036

Date Sun Apr 18-19/76 Observer ^{NTD}T2/T2 Julian Day 174

[illegible]

2078

Transparency Conditions some haze/clouds 20.00 - 308

* These to be pushed, at far right of Box 5

Dome Temp. 67°F H: 81%

[illegible]

II-0-c 28115-18046

Dome Temp. 7
Focus 10-8
Dome Temp. .

Hour Angle
End

3.58

310

Transparency Conditions *Hazy - cloudy*.....

* Push Develop - (in Box #6) Far 17/9/44

[illegible]

Πα-Ο-ε 28115-18046

Dome Temp. 51
Focus 20-
Dome Temp.

Hour	Angle	End
218	W+	
037	W+	
052	W+	
147	W+	

Waterloo

Dome Temp. 58°F H=69%

Focus 20-R

Dome Temp.

Transparency Conditions

scattered cloud & haze

* Push (At Far right of Box #6)

These plates in Box #6

312
sl/clear

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:46	A	218 W	+51 52	2-3	4.18	Am	7-7-7	Am Std	200/90	haze	Fine
2:10	B	0:37 W	+77 53	2-4"	5.1	Am	7-7-7	Am Std	200/70	cloud	Fine
1:45	C	0:52 W	+43 15	"	6.88	AZ	7-7-8	Am-MR	400/175	clear/haze	Fine
3:50	A	1:47 W	+28 42	2-3"	8.81	GOV	7-5-5	SSV LixI	800/54	RA reading went kupa * Push	wt
										mistake doing last star - cloud did come	wt

II 46e 28115 - 18046

Douse Temp. 5

Focus.....95-

Dome Temp. .

Hour Angle
End

02:35 ✓

Dev 12

Dome Temp.

Transparency Conditions H924

314

[illegible]

227

316

Using Box #6 From last night

Dome Temp.

[illegible]

IIAF-E

Date Thu Fr. April 28/30 1976 Observer Be-Ri Julian Day 8.6

[illegible]

C12
Q7B

Transparency Conditions

320

Dome Temp. 42°F 66%

[illegible]

Dome Temp. 60 °F 608

Focus 40-R

Dome Temp. 76.7

Transparency Conditions cloudy

322

✓ Put in box with broken plate of Apr-16-17

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:02	A	05 45W		3-10	193	AOLR	no filter 5-13	-8h	200/??	X meter no worky $\approx$ 3 and 1/2 min cloud	u.v. weak
		Dew	D 19 @ 68°F	5 mi		Webcast					
										I noticed massive Aurora between clouds Sunday night 11 PM May 2	

Date Mon - Tues 1976 May 3-4 Observer MR-Ri Julian Day 173.5

[illegible]

Dome Temp. 38°F.....

Transparency Conditions *cloudy*

324

exposed #6

[illegible]

Waterloo

Dome Temp. 50°F 67%

Focus 60R

Dome Temp. 50°F 80%

Transparency Conditions

Lazy

328

exposure # 6

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:00	A	3 45 W	28 44	2	9.48	G 0V	777	SSU Lin I	800/102		slweak
02:28	B	024 05 W	+27° 18'	2	9.03	K 0 III	7-77	"	800/200		Fine
		Dev 68°F D19 12m Na ₂ SO ₄									
01:12	C	01 20 E	+35° 45'	2	7.60	WN 4.5 09.5 I	777	Sp Bri - Bl	800/155	wrong star at first so change the plateholder lazy getting thicker during the exposure then clank	weak
										Warner: overdevelop the right plates	

Em Maie 03075-05046
Doze 28115-19046

Dome Temp.

Focus

Dome Temp.

[illegible]

Dome Temp. 40° H = 9170

Transparency Conditions *cloudy but clearing ??* 328

* At Right Box

[illegible]

28115-19046

Dome Temp.

0.43 M

Dome Temp.

Transparency Conditions *climbing in*

33c

[illegible]

* 28115-08056
IIIa J-e 03075-05046

Date 9/10 May 1976 Sun 14m Observer Bh-Tg Julian Day 175

[illegible]

Dome Temp. 61°F $H=71\%$

Focus $35-R$

Dome Temp. 53° $H.83\%$

Transparency Conditions Excellent

332

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:40	A	01 17E	$+83^{\circ} 34'$	2	5.81	A0	7-7-7	Sp. Bin-Bin	200/68	good Fe	slut
01:06	B	00 50E	"	1-2	5.2	B8	7-7-7	Shell Bin	200/80	give more Fe	u sl gny Fine
02:42	C	01:02 W	$-5^{\circ} 56'$	2"	7.90	B8?	6-7-5	Sp. Bin-Bin	800/320	slst Fe	vislut
		Dev DIS 8min @ 68°F 12. burst.									
01:37	A	0 42 W	$-15^{\circ} 50'$	1-2	2.89	Am	7-7-7	Sp. Bin Bin	80/400	* At Far right box 3 x	Fine
		Dev DIS 4 1/2 min @ 63°F Ne burst									
02:14	B	1 07E	$-18^{\circ} 20'$	2"	6.63	07 III	6-6-6	Sp. Bin-Bin	400/160	good Fe	gny v slut
03:30	C	01 40 E	$+35^{\circ} 49'$	2"	7.6	WV4.5 09.5	6-6-6	"	800/480	slut Fe	gny slut
03:37	A	0 4.E		1-2	0.1	A0	7-14	Sp. Std.	40/70	*	sl gny Fine
03:47	B	0 06W		"	"	"		"	40/282	x	STRONG
04:16	C	00 50 W	$+71^{\circ} 23'$	2"	4.18	Ap	5-5-5	Sp. Bin-Bin	40/60	slut Fe	Fine

№ 0-с 28115-08056

Date 12/13 May 1976 Wed-Thurs Observer But-Th

Julian Day

[illegible]

Dome Temp. 94° H= 8270

334

[illegible]

Dome Temp. 47°F H=807

cloudy mainly
skillfully jumped to holes

336

[illegible]

337

Hd
mcw
Tr

[illegible]

Dome Temp. 43 N-9870

338

[illegible]

339

Mag

[illegible]

Dome Temp. 152° $H=703$

Good Aurora

340

[illegible]

HOOF 28115-17056
WOLF 03075-05046

Dome Temp. _____
Focus 300
Dome Temp. _____

Date 20/21 May 1976 Thu/Fri Observer Ri Julian Day 175.5

[illegible]

Focus *2012*
Dome Temp. *55°F* *78%*

342

[illegible]

FOE 2P115-17056

Date Fri May 21-22/76

Observer

144

...Ri...

Julian Day.

[illegible]

Dome Temp. 46 F 76%

Focus 402

Dome Temp.

Transparency Conditions

344

[illegible]

ITAE 28115-17056

Waterloo

[illegible]

Waterloo

Dome Temp. 54°F 78%

Focus 40R

Dome Temp.

Transparency Conditions excellent

346

opened Box mark the F

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2311	1	02 ^h 38W	+38° 03'	1	7.8	KOII	7-77	Wide Vis 8th Pikes	800/400		Fine
0021	3	03 ^h 00W	+48° 41'	"	8.7	K2III	7-77	"	800/230	Great Fe	vs/wk
0328	1	00 ^h 55W	+14° 33'	"	7.6	KOIII	7-14	"	350/105	clouded in - overdeveloped	s/wk
										8 min @ 68°F D-19 N ₂ burst, 7 at 10 sec interval	
										Dev 12 min 69°F D19 N ₂ burst, 7 at 10 sec interval	middle of Box

IIa OF - 28115-17056

TTA J-E-03075-05046

BB

Date 23/24 May 1976 Sun/Mon Observer Blu - Ri - Balasing ^{BB} Julian Day

[illegible]

[illegible]

Doc 28115-17056

Dome Temp. ...
Focus 30
Dome Temp. ...

Hour Angle End	Hour Angle Start	Altitude	Declination	Time
20 ^h 50 ^m	19 ^h 50 ^m	10°	01° 53' W	Dec 1951
19 ^h 53 ^m	18 ^h 53 ^m	10°	1° 44' W	Dec 1951
18 ^h 53 ^m	17 ^h 53 ^m	10°	01° 00' W	Dec 1951

352

[illegible]

III a J-e 03075-26056
II a O-e 28115-29056

Д.О-е 28115-29056

Date 27/28 MAY 1976 Thurs-Fri Observer MOR-TN Julian Day 175.5

[illegible]

"Waterloo"

Dome Temp. 70°F H=70%

Focus 15 R

Dome Temp. 60°F H=85%

Transparency Conditions Some haze

352

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21:48	B	0 56 E	-15 53	2"	2.89	A _m	7-7-7	Sp. Bin - Bl _n	40/124	✓ RHS box #2 ?? Prob at least 150 counts	sl wk c gng sl
		Der 4 1/2 min		D19		N ₂ burnt	7 cut 10			Exp meter partially in use out fault!	
3:49	C	0 07 W	+12 51	1"	6.8	AO	10-5-10	Sp Bin - Bl _n	400/150		Fine
		Der 8 min		D19		N ₂ burnt	Q 6 3 F				
0:14	A	5 26 E	+49 13	2"	4.08	B2.5 III	6-6-6	H ₄ - Comp	40/30		Fine
1:50	B	2 09 E	+35 44	1"	7.6	WN 4.5+ 29.5 I ₄	6-6-6	Sp Bin - Bl _n	400/300	sl wk Fe	Fine
2:02	C	3 38 E		1"	4.08	B2.5 III	6-6-6	H ₄ Comp	40/30		Fine
2:02	A	1 14 26	+14 26	1"	6.07	A_m	7-	Sp Bin - Bl_n	400/	cloud coming!	
2:32	B	0 02 W	+38 46	1"	0.1	AO	6-12	Sp Std	40/150	Vega RHS	Fine gng
2:35	C	0 05 W	+38 46	1"	"	"	9-9	"	40/40	" RHS	wk/gng
2:58	A	2 42 E	+49 12	2"	4.08	B2.5 III	6-6-6	H ₄ - Comp	40/30		Fine
	B	in 10 sec					3/3	no filter			
3:18	A	2 22 E		1-2"	4.08	B2.5 III	6-6-6	H ₄ Comp	40/30	Some cloud	Fine sl gng
3:54	C	3 01 E	+42 13	1"	3.63	B6 P	no filter 6-7-7	Shell *, Bl _n	40/60	RHS more cloud	v wk

File 03075-26056

Dome Temp. 6
Focus 10R
Dome Temp.

Hour	Angle	End
3	06N	
4	55E	
4	50E	

Dome Temp. 67°F H=70%

Focus 10 R

Dome Temp.

Transparency Conditions

Hazy $\rightarrow$ clouds

354

[illegible]

Risks "Waterloo"

3.58

3.56

Ending Time
EST.

357

En
BB
Bl
Fg
Bu
F
Ch
Dr
Gl
Gr
Ir
Hd
Mc
SM=Mo
Mc
MP
Lne
kk

BK = Gus Bakos "Waterloo"

BB = B Baldwin

Bl = Tom Bolton

Fgi = Dot Fraquelli

But = Stewart Button

F = Pim Fitzgerald

CM = Cathy Martin "Waterloo"

Dr = Brian Demander

Gl = Austin Gulliver

Gn = Nancy Gefkan

Ir = Alan Irwin

Hd = Dr J Heard

McW = MacWatters

SM = Mor = Steve Morris

McG = Rick McGonegal

MR = Dr D MacRae

Lne = Mary Lane

KK = Karl Kamper

Re = René Racine

Ri = Archie Ridder

~~Sh~~ Sho = Steve Shore

Taam = Assistant to Hd

Tn = Jim Thomson

Tnr = Dave Turner

Wtn = M. G Warkentin

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