

THIS PAGE INTENTIONALLY LEFT BLANK

61

- not

- for

- dur

- so a

- type

- make final setting to red nos. decreasing
- for centre to violet, correct by increasing red nos.
- decreasing temp. causes centre to violet (i.e. $\rightarrow$ violet)
- 50 div. = 21 microns ^{DIFFERENCE BETWEEN CENTRE & EDGE OF DISK} on focus plate
 = physical movement of camera ~ 150 microns
- typical focus: 40-R (winters)
 5-R (summer)

3

Dome Temp.

Focus

Dome Temp.

Four Angle
End

Dome Temp.

Transparency Conditions

4.

[illegible]

x Bakul Jan 28-29 1972

Done Temp.

Focus

Dome Temp.

Hour Angle
End

2.40

W 2.2

W 676 12

Dome Temp. ... 100° F / 81%

Focus

Dome Temp. 80° / 89%

Transparency Conditions *clear up at 23.50*

6

[illegible]

* = Baked Jan 20/23

Date Feb 1-2/72

Observer.....cb-TA

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
35719	HD 21278	3 ^h 20.9	+40° 43	612	Ilford*	13/5		19:25	19:53	A	0055W+
35720	HD 37479	5 33.8	-2 39	"	"	"	23°F	20:02	21:30	C	0020W
35721	HD 41753	6 ^h 01.9	+14° 47	"	"	"		21:33	21:55	B	0016W+
35722	HD 42690	6 ^h 07.00	-6° 32	"	"	"		22:16	23:18	A	0138W
35722F1	Focus			"	"	13	23°F			B	in air
35722 T1	calibration step wedge for plates 35719 - 35722				Ilford			2 Feb 1972			in air

* baked Jan 28/29

Dome Temp. 4

Focus

Dome Temp. 5

Hour	Angle
End	

4^h 43^m W 1

037 W +

503E 1

Dome Temp. 1401 748014

Focus

Dome Temp. 72.76

Transparency Conditions Cloud, snow, wind etc

10

[illegible]

* balced Jan 31/Feb 1

Julian Day

[illegible]

Dome Temp. ... 8 H = 67° 40'

Focus

Dome Temp. $+1^{\circ}$ $H = 65\%$

Transparency Conditions *Clear by 03rd*

12

[illegible]

* based Jan 31/Feb 1

Dome Temp. - 1

[illegible]

Dome Temp. ... *71.7* ... *A=7170*

Transparency Conditions *mediocre*

Focus

Dome Temp. Too Cold for me; I think I'll go south now!! See you in a month.

[illegible]

Dome Temp.

80°F / 74%

Focus

Dome Temp.

Transparency Conditions

scattered clouds

16

[illegible]

* School Jan 31 - Feb 1/72.

Date Feb 9-10 1972 Wed-Th Observer cb-SI / 4u-SI 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.
35731	HD 21796	3 ^h 25 ^m 38 ^s	-5° 25'	G-12	IIab*	13/5	18°	19:10	19:34	A
35732	HD 36526	5 ^h 27.2	-1° 40'	"	"	"	18°	19:40	23:00	B
35733	HD 42690	6 ^h 07 00	-6° 32'	"	"	"		23:07	23:30	C
35734	HD 62044	7 ^h 34 04	+29° 09'	"	"	"	16°	23:35	23:51	X
35735	HD 86772	9 ^h 55.6	+29 16	"	"	13/3		00:07	01:46	B
35736	HD 100179	11 26.6	+29 52	"	"	"		01:53	03:41	C
35737	HD 102616	11 44.0	+28 41	"	"	"		03:53	05:47	A
35738	HD 154431	17 ^h 00.3	+34.56	"	"	13/5		05:55	06:28	B
35738F	FOCUS					13/5	18°		4-44	

Dome Temp. 19°F / 85°F

Focus

Dome Temp.

Transparency Conditions Excellent and - very good.

[illegible]

** Baked Feb 10/11 1972

Dome Temp

0211A

Dome Temp. 23° F / 81° F

Transparency Conditions CLEAR BUT HAZY

20

Focus

Dome Temp.

[illegible]

* Baked Feb-10/11 1972

Date Feb 12 - 13 1972 SAT-SUN Observer cb - mcz Julian Day

[illegible]

Dome Temp. $32^{\circ}/95^{\circ}$

Focus

Dome Temp.

Transparency Conditions

Transparency Conditions smog but clear

- AGAIN HAD TO REPAIR DEC. SLEW MOTOR

log Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	0 ^h 43 W	+49° 03	2"	4.9	B3V	10-10-10	MK sp std	200/103	-	POOR GUIDING FINE
52	?	02:35 W	-0° 31	2"	8.8	B9	10-070	He weak *	800/147	foggy **	VERY WEAK (GUIDING) U-SL. WK
2	-	01:08 W	+29 04	2-3"	4.3	K1 III	10-10	Binary?	200/160		
07	A	01 20 W	+29 00	2-5"	8.7	K2 III	10-20	SSV	800/112	thick haze - spectrograph dust cover shutter found stuck half-closed	VERY WEAK
		plates	35739 - 45							Closed 0210 - SOLID HAZE, NO COUNTS COMING IN AT ALL!	
			dis. 12 min @ 68° F					1/14 Feb/72		ANSON: PLEASE OVERDEVELOP	
								** ANSON - please overdevelop.			

* baked Feb 10/11/72

Dome Temp. 2
Focus
Dome Temp. 2

[illegible]

Focus
Dome Temp. 25°F $H=96\%$

Transparency Conditions overcast - some small holes

Exp. Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00	A	02 ^h 12W	+40 57	3-4	3	R3V	15-15	A/gol	40/19		FINE
14	B	02 26W	"	"	"	"	"	"	40/19		FINE
15	A	04 24W	"	"	"	"	"	"	40/20		FINE
25	B	04 37W	"	"	"	"	"	"	40/20	thru thick haze no clouds.	FINE
		03^h 36	"	4-1	R3V	10-	Sp B10 BL13	400/180			

* baked Feb 10/11/72

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

[illegible]

Dome Temp. 29°F

Dome Temp.

Transparency Conditions *overcast to broken.*

25

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
45	1	2:01 W	+40°57'	5-7	2.2- 3.47	B8V	15-15	Algol	40/20		SC-SFR
19	1	01°20	3-5	7.1	B8	10-	CB	800/			
	A						30	Light Pollution	20/	light source at secondary end of tube - on platform by dome slit.	
	B						"	"			
	C						"	"			
	A						"	"			
	P						"	"			
	C						"	"			

* = Baked Feb 10/11/72

Dome Temp. 16

Focus

Dome Temp.

Flour Angle
End

0.48W +

106 -

2524

Dome Temp. 16°F H = 70%

Focus

Dome Temp.

Transparency Conditions Excellent

28

g Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20	A	0:48W.	+40 57	3-4	^{2.2} -3.97	B8X	15-15	Algol	40/20		SL, STR
15	B	1:06	-01 19	3-4	7.0	B8	10-10-10	weak He *	800/287	** CLOUDS, ! #0? ! & !	FINE
	C	—	—	—	—	—	4-4	FOCUS	→	upper grating screw turned 1/8 turn (45°) CCW.	
										NO CENTRE comp. before focus plate taken.	
										35751, 52 — 12 " @ 68°F in MPP-2 / 17 Feb 1972	
										** ANSON - PLEASE OVERDEVELOP	

Rebaked Feb 16/72

Date Thurs-Fri Feb 17/18/72 Observer SL Julian Day

[illegible]

Dome Temp. 20 F

Focus

Dome Temp.

Transparency Conditions *Overcast*

30

[illegible]

~~IIa-06~~ baled Feb. 16/71

Date Sun-Mon Feb 20/21/72 Observer SL Julian Day

[illegible]

Dome Temp. 0°F.....

Focus

Dome Temp.

Transparency Conditions

Broken Cloud

32

[illegible]

* dated Feb 16/72.

Date Tue-Wed Feb 22/23/72 Observer S/-H/y Julian Day

[illegible]

Focus

Dome Temp.

Dome Temp. 04°F.....

Dome Temp.

Transparency Conditions

34

log Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
151	A	01 34 W	+40 49.	8-10"	2.2- 3.47	B8V	15-15	Algol	40/20		SC-SFR.
150	B	04:00W	+29 18.	5-8	7.96	KIII	10-10-10	SSV	800/295	moon very close!	SL-WK
	C		+29 35	5	9.02	K4III	10-	SSV	800/	Suddenly, clouds!	

Bulwer Feb 16

Date Feb 24/25 1972 Observer GH/Ri/Ri Julian Day 2443986.5

[illegible]

Focus
Dome Temp. 80°F 78%

35

[illegible]

37

xx Baked Feb 16
 n Baked Feb 25-26

Date Feb 26/27 1922 ^{RS} Observer S. R. / McURI 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
35765	4D19356	03 ^h 01.7	+40° 34	G-12	IIaD ^{XB}	9/.5		19:30	19:35	C	2 ^h 10
35766	"	"	"	"	IIaD B*			19:41	19:48	A	2 ^h 40
35767								19:50	19:55	B	2 ^h 55
35768								20:00	20:06	C	3 ^h 05
35769							26°F	20:08	20:12	A	3 ^h 20
35770								20:14	20:18	B	3 ^h 40
35771								20:20	20:25	C	
35772								20:27	20:38	A	3 ^h 30
35773								20:40	20:47	B	3 ^h 47
35774								20:49	20:56	C	3 ^h 55
35775								20:54	21:01	A	4 ^h 00
35776								21:03	21:07	B	4 ^h 07
35777								21:09	21:13	C	4 ^h 10
35778								21:25	21:30	A	4 ^h 30
35779	Y Per	¹⁹⁵⁰ 3 32.93	¹⁹⁵⁰ +48 17	"	IIaD	"		21:43	22:02	C	4 ^h 50
35780	HD 19356	03 00.7	+40° 34	G-12	IIaD B*	9/.5		22:09	22:13	B	5 ^h 10

Dome Temp. /

Focus

Dome Temp.

Dome Temp. 18°F 85%

Transparency Conditions Good a few clouds at night

38

Focus

Dome Temp.

ing Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
33	C	2411W	+40°58'	3	2.2- 3.47	B8V	15-15	Alsol	40/20	clouds	
48	A	2443W			"	"	15-15	"	40/18		
55	B	2455W					15-15		"		
66	A	3405W					15-15		40/16		
72	A	3412W					15-15		40/18		
88	B	3419W					15-15		40/16		
95	C						15-15		40/16		
108	A	3439W					15-15		40/18		
117	B	3447W					15-15		40/18		
156	C	3455W					15-15		40/20		
171	A	4400W					15-15		40/18		
177	B	4407W					15-15		40/18		
203	C	4414W					15-15		40/20		
30	A	4430W					15-15		40/18		
42	C	4434W	+47°14'		4.1	B	10-10+0		40/21		
3	B	5413W	+40°58'		2.2- 3.47	B8V	15-15	Alsol	40/20		

39

Date Feb 26/27 1972 comet Observer Sy Ri/McU.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
35781	HD 19356	03 01.7	1400 34	G-12	IIcOB	9/5		22:32	22:38	A	5:20W
35782	¹⁹⁷⁰ S Tau	5 35.9	+21° 08	G43	IIa0	13/5		23:21	23:26	B	3:50W
35783	"	"	"	"	"	"		23:31	23:35	C	4:06W
35784								23:37	23:40	A	4:10W
35785								23:42	23:46	B	4:17W
35786								23:48	23:52	C	4:23W
35787								23:54	23:57	A	4:28W
35788	HD 86778	09 55.6	+29° 16	G-12	IIa.0P ^x	13/3	10°F	00:12	02 17	B	02:25W
35789	HD 120421	13 44.2	+28° 22	"	"	"		02 23	04:27	C	4:27W
35790	HD 154431	17 00.3	+34° 56	"	"	13/5	15°F	04:40	06 16	B	06:39E
35790 T1					IIcOB						
T2					IIa0						

Dome Temp.

Transparency Conditions

Focus

Dome Temp. 80°F 83%

ing Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
38	F	5 ^h 39W	40°58'		2.2- 3.47	B8V	15-15	Agol	40/22		
46	B	3 ^h 56W	+21°15'		3.07	BZ	8-5	SV*	40/10		
35	L	4 ^h 06W	"				5-5		40/10		
40		4 ^h 11W					5-5		40/7		
40	B	4 ^h 17W					5-5		40/11		
40	L	4 ^h 23W					5-5		40/9		
52	L	4 ^h 28W					5-5		40/11		
Anderson, will you please take calibration plates for the above Mark has saved one baked plate from the batch with which Agol plates were taken. For the others you will need one piece from the unbaked batch. Sorry!											
17	B	02 25N	+29°00'	3"	8.70	K2III	10-10-10	SSV	800/300		
27		00' 47W	+28°06'	3-4"	8.52	K1III	10-10-10	"	800/300		SL. WIK
16	B	00 39E	+34 55	"	6.07	N5I	10-10-	H-X	40/200	curious clench	FINE

13alud Feb 26-27

Date Mar 3-4 Fri Sat 1972 Observer R. Waterloo Julian Day 171.5

[illegible]

Dome Temp. 50°F 70%

Transparency Conditions clear bad seeing

'42

[illegible]

Date Mar 5-6 1972 Sun Mon Observer Ri Julian Day 2439500

[illegible]

Dome Temp.

44

[illegible]

45

* Bakal Feb 26/27/72.

Date Wed. Thurs. Mar 8/9/72

Observer Tn - 58/De-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
35802.	δ Tau			G-12	IIa-0 ^b	9/.5		22:19	22:31	B	03:45W
35803	"			"	"	"		22:35	22:45	C	04:00W
35804	"			"	"	"		22:50	23:07	A	04:21W
35805	"			"	"	"	17°F	23:10	23:32	B	04:45W
35806	β CMi			"	"	"		23:40	23:50	A	03:16W
35807	"			"	"	"		23:54	00:10	B	03:36W
35808	HD 107 325 325	12 ^h 15 ^m 18 ^s	27° 11'	"	"	13/.3	13°F	00:43	03:55	A	02:27W
35809	HD 154431	17 ^h 00.3 ^m	+34° 56'	"	IIa-0	13/.5		04:05	05:41	B	01:30E
35810	HD 152614	16 ^h 49.3 ^m	+10° 20'	"	"	13/.5		05:51	06:05	C	00:00
35810 F1	Focus				"	13				B	00:00

Dome Temp. -10

Focus

Dome Temp. 6

Dome Temp. 10°F $H=66\%$

Focus

Dome Temp. 6°F $H=67\%$

Transparency Conditions very cloudy ⁴⁶

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01	B	03 45W	+21° 13	10"	2.9	B3	12-	5g	40/20		
05	C	04 00W	"	8"	"	"	12-12	"	40/20		
07	A	04 21W	"	"	"	"	12-12	"	40/20		
32	B	04 45W	"	"	"	"	12-12	"	40/20		
50	A	03 16W		"			12-12	"	40/14		
10	B	03 36W		"			12-12	"	40/18		
Anson will you pl take a calibration plot (blanked) for 6 Tau & 6 CMu											
55	A	02 27W	+26 51	3"-8"	6.72	gK2	8-8-8	Sp. BINARY G1001	400/450	same cl.	
41	B	00 30 ^m E	+34 52	3"-6"	6.07	A5V	8-8-8	HERX	400/200		
05	C	00	10 18	3"	4.30	B8V	12+2	sp. B. B/n	40/16		
	B	in in / out out					4/4	no filter			CENTRE TO VIOLET

Date Enl/SAT 10/11 Mar 22 Observer Gul-Tn/Bh-Tn Julian Day

[illegible]

Dome Temp.

Transparency Conditions Excellent - hazy (cirrus)⁵⁰

[illegible]

*baked Feb 26/27

Date Sun - Mon 12/13 Mar 72 Observer Sg-Tn/Hu-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	D
35821	4 Per	3 29.6	47 52	G12	IIaD	13/5		19:24	19:42	A	03 12W	14
35822	"	"	"	"	"	"	37°F	19:43	19:53	B	03 21W	
35823	"	"	"	"	"	"		19:57	20:07	A	03 32W	
35824	"	"	"	"	"	"		20:09	20:19	B	03 50W	
35825	"	"	"	"	"	"		20:20	20:34	A	04 05W	
35826	"	"	"	"	IIaD*	"	36°F	20 34	20:42	B	04 14W	
35827	"	"	"	"	IIaD	"		21:11	21:31	A	05 01W	
35828	"	"	"	"	IIaD	"		21:36	21:54	C	05 23W	
35829	AX Mon	6 25.2	+5 56	"	"	25/3		22:03	23:25	B	04 02W	1
35830	β CMi	7 21.7	8° 29	"	IIaD	9/5		23 33	23 43	C	03 24W	
35831	"	"	"	"	"	"		23 45	23 55	A	03 36W	
35832	"	"	"	"	"	"	34°F	23 57	00 09	B	03 50W	
35833	HD 120421	13 ^h 44.2 ^m	28° 22	"	"	13/3		00 18	03 46	C	01 08W	28
35833F1	Focus			"	"	13	32°F			B		

Dome Temp. ... 2

Focus

Dome Temp. ... 2

Dome Temp. 27°F H = 85%

Transparency Conditions very good

Focus

Dome Temp. 23°F H = 77%

increasing haze
to cloud

ing Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:42	A	03 12W	+48 11	2-3	4.1	B	15-15	Sy Em line	40/20		
9:53	B	03 23W	"	"	"	"	15-15		40/20		
10:07	A	03 37W	"	"	"	"	15-15		40/19		
10:19	B	03 50W	"	"	"	"	15-15		40/20		
10:34	A	04 05W	"	3-4"	"	"	15-15		40/20		
10:42	C	04 14W	"	"	"	"	15-15		40/17	Anson - Please get	
11:31	A	05:00W	"	"	"	"	15-15		40/19	cal plate for these	
11:54	C	05 23W	"	5-7"	"	"	15-15		40/14	plates - correct	
12:25	B	04 02W	+6 00	3-4"	6.8	B	5-5-5		400/113	Sonyol	
12:43	C	03 24W		2-3"	2.7	B	15-15		40/18		
12:55	A	03 36W		"	"	"	15-15		40/21		
13:09	B	03 50W		"	"	"	15-15		40/19		
13:46	C	01 08W	+28 06	2"	8.52	KI III	5-5-5 5-5-5	SSV	800/230	cloud - (overdevelop)	
	E		in in / out of				474	no filter		please	GOOD

* BAKED MAR 13/14
** BAKED MAR 17/18

** BAKED MAR 17/18

Date Sat-Sun 18/19 MAR 72 Observer TN-CB/Ph-Tn Julian Day

[illegible]

Dome Temp. ... 18°F $H = 66\%$

Focus

Dome Temp. 12°F H = 717.

Transparency Conditions *Excellent*

54

[illegible]

* BAKED MAR 13/14

~~** BAKED~~ MAR 17/18

Date Sun. Mar. 19/20 Mar. 72 Observer Tx-Cb/Hu-Tn Julian Day accident

Dome Temp. 21

Focus

Dome Temp. 4

[illegible]

Dome Temp. 22°/68%

Focus

Dome Temp. 20 73

Transparency Conditions CLEAR (Excellent)
cloud by 1:30

56

Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
07	A	03 34W	40 58	2"-3"	2.2- 3.47	B8V	15-10		40/18		SL. STRONG
44		03 46W	-1 30	1"-2"	8.2	B8V	10-10-10	He poor	800/93	overdevelop please	VERT WEAK
02	C	04 38W	+42 27	1"-2"	6.61	A0p	9-9-9	Appm	400/170		FINE
57	B	00 17E	—	1.2"	8.52	KIII	5-5-4 5-10	SSV	800/210	cloud overdevelop	SL. WK
		lamp - Ne exp. time = 4 min, emulsion IIaF, Filter G614									
		"			5 "			"		→ dev. 15 min @ 680K	
		"			3 "			"		"	
		"			2 "			"		"	
		"			5 "			"		None	Lines were double with filter in
		"			4 "			"		"	- single when not.
		"			3 "			"		"	
		"			2 "			"		"	
		"			6 "			"		G614	
		He arc			1 "			"		No filter (even neutral) filter not here	
	A						30 sec			OK	

** Balced Mar 23/24
* Balced Mar 13/14

Dome Temp. 13°
Focus
Dome Temp. 13

[illegible]

Dome Temp. 13 / 72°

Transparency Conditions clear, (hazy) but very bad seeing

58

[illegible]

59

** Baked Mar 23/24

* Balced Mar 13/14

Date Sat-Sun Mar 25-26/72 Observer T. C. B. / B. / T. S. Julian Day

[illegible]

Dome Temp. 13 / 708

60

[illegible]

* baked Mar 23/24

Dome Temp. _____
Focus _____
Dome Temp. _____

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
35865	Ax Mon	6 25.2	+5 56	G12	Ilao ^x	13/3		19:29	22:03	A	33SW +
35866	S Tau HD 37202	5 31.7	+21 05	"	"	9/5	26°F	22:07	22:15	B	
35867	"	"	"	"	"	"	"	22:17	22:27	C	45W
35868	B c Mi	7 21.7	+8 29	"	"	"		22:36	22:48	A	
35869	"	"	"	"	Ilao	"		22:52	23:02	C	33W
35870	"	"	"	"	"	"		23:05	23:15	A	350W
35871	"	"	"	"	"	"		23:16	23:26	B	
35872	"	"	"	"	"	"		23:28	23:38	C	
35873	HD 120421	13 44.2	28 22	"	Ilao ^f	13/3		23:46	02:38	B	00 SW +
35874	HD 141458	15 44.1	13 01	"	"	13/5		02:50	04:18	C	00 33W +
35875	HD 154431	17 00.3	34 56	"	"	"		04:23	4:59	A	00 03E +
35876	HD 152614	16 49.5	+10 20	"	Dao	13/5		05:02	5:12	B	10 21W +
35877	B Op h	17 38.5	+4 37	"	"	9/5	23°F	05:16	05:23	C	10 15E +
35877T1	calibration from plate				Ilao						
T2	35843 - 35877 (excluding				IlaoB						
	# 35844 & 35857) sep.										

Dome Temp. 18° 68%

Transparency Conditions Excellent

Focus

Dome Temp. 17° 70%

ing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03	A	3 35W	+6 01	3'-4'	6.8	B	10-9-10		400/130		SH W/K
15	A		+21 16	2-4	2.9	B	10-8-10	Em Line-Sy	200/80	Anson (H) got	(GUIDING) FINE
27	C	4 52W	"	"	"	"	10-20		200/80	a calibration plate	FINE
4	A		+8 29	3'-6'	2.7	B	15-15		40/19	for 1-0 baked & 2-0	FINE
02	C	3 37W	"	"	"	"	15-15		40/19	(WEAK Fe) Sony	FINE
15	A	3 50W	"	"	"	"	15-15		40/20		FINE
26	B		"	"	"	"	15-15		40/17		(GUIDING) FINE
38	C		"	"	"	"	15-15		40/18		FINE
238	B	00 52W	+28 08	2'-3'	8.52	K1 IV	5-5-5 5-5-5	S 5 V	800/310		FINE
18	C	00 33W	+12 56	1'-3'	6.80	A0	10-10-10	sp Bin-B/m	400/160		FINE
59	A	00 03E	+34 56	"	6.07	A5 V	10-10-10	Her X	400/160		FINE
12	B	00 21W	+10 19	1'-2"	4.30	R8 V	15-15	sp Bin-B/m	40/17		FINE
23	C	10 15E	+4 41	"	3.93	K2 III	15-15	std vel	40/26		FINE

$\Pi a O^*$ baked Mar 27

Dome Temp. 2

Focus

Dome Temp. _____

Hour Angle
End

4. 26W

254W 42

Dome Temp.

cloud 1 at 21:30

64

[illegible]

* Balced Mar 27/28

Date Tue-Wed Mar 28-29/1972 Observer Cb-Tn/Oc-Tn Julian Day _____

[illegible]

Dome Temp. 19° H=827.

Transparency Conditions *Excellent*

65

Telescope in rough shape tonight - ^{bad seeing} everything ^{also overexposed} (15 min)

[illegible]

Batch Mar 27 28

Dome Temp. 2
Focus
Dome Temp.

[illegible]

Dome Temp. 28°F 75%

Focus

Dome Temp.

Transparency Conditions scattered clouds and hazy

65

[illegible]

Baked Mar 27/28

Donne Temp. ..

Focus

Donne Temp.

Hour Angle
End

0435W

0740

Dome Temp. ... 28°F ...

Focus

Dome Temp.

Transparency Conditions[illegible]

Date April 2 1972 Sun Observer B/n-Ri Julian Day 2440000.5

Dome Temp. _____

Focus

Dome Temp.

[illegible]

Dome Temp.

Transparency Conditions

[illegible]

72

Dome Temp. 2

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 27° H = 60%

Focus

Dome Temp. 20°F H70%

Transparency Conditions Excellent-occasional cloud banks.

74

Obs. Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
40	A	04 ^h 18 ^m W	+35° 49'	4-6	4.04	07	10-10-10	Sp. Bin-Bln	40/16		FINE
46	B	05 ^h 16 ^m W	+40° 58'	"	^{2.2-} 3.47	B8V	15-15	"	40/16	2EV. 18 m	(GUIDING) FINE
50	C	04 ^h 08 ^m W	+06° 00'	"	6.8	Bc	10-10-10	Sp. Vari	80/176	Clouds Overdevelop Light Please turned on w/ plate un-capped	SL. WK
2:22	A	02 ^h 22 ^m W	+5° 55'	5	4.14	A0V	10-10-10	Sp. Bin-Bln	80/40		FINE
3:05	E	02 ^h 39 ^m W	+03° 35'	"	4.10	B3V	10-10-10	"	80/38		FINE
3:01	C	02 ^h 25 ^m W	+02° 33'	"	3.82	B9.5V	10-10-10	"	80/38		FINE
3:40	A	02 ^h 14 ^m W	-12° 47'	"	4.51	B8V	10-10-10	"	80/40		FINE
4:25	B	00 10 E	48 45	"	7.2	K2III	⁵⁻⁵⁻⁵ 15	Vis. bin. Hd	800/150	Clouds! overdevelop please	VERY WEAK
	B						4-4	no filter			GOOD
		15 m @ 68°F in			<u>D-76</u>						

+ Baked Mar 27/28

Dome Temp. .

Focus

Dome Temp.

Hour Angle

End

Dome Temp. 21° $14 = 64\%$

Transparency Conditions *cloud*

76

Focus

Dome Temp.

[illegible]

baked April 4/5

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

351W

458V

3244

0.054

327E

33E

Transparency Conditions *cloudy - then clear*

70

[illegible]

* baked April 9/5

Dome Temp.
Focus
Dome Temp.

[illegible]

Dome Temp. 17° H = 75%

82

[illegible]

* BAKED 4/5 APRIL

Date SUN - Mon 9/10 APRIL 1972 Observer DC-Tn Julian Day 174.5

[illegible]

Dome Temp.

Transparency Conditions

Excellent - then cloud
seeing very good as well.

[illegible]

83

Date Fri-Sat 19/15 April/72 Observer Tn-BH-Rjd Julian Day.....

[illegible]

Dome Temp. 40.0

Focus

Dome Temp.

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

Dome Temp. 33

Transparency Conditions

Focus

Dome Temp.

54

[illegible]

85

Down Temp. 3

Focus

Dome Temp.

Hour Angle
End

 $335^\circ W \div$

Dome Temp. 32° H=88%

Transparency Conditions Very Good - but haze
clouds ~ 01:45

86

[illegible]

* baked April 10/11

Dome Temp. —

Focus

Dome Temp.

Hour Angle

End

Transparency Conditions very good but have

[illegible]

* baked April 10/11

Dome Temp. 21
Focus
Dome Temp. 3

[illegible]

Dome Temp. 35° H = 81%

Transparency Conditions some cloud

lots of cloud

90

[illegible]

Baked April 10-11

Date Thu Fri April 20-21, 1972 Observer Sy-Ri / Hu-Ri Julian Day _____

[illegible]

Dome Temp. 36°F 53%

Focus

Dome Temp. 32°F 55%

Transparency Conditions good

92

9th clock's were out

ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19	A	01 ^h 16 ^m W	+03° 35'		4.10	B3I	10-10-10	Spec. Bw.	80/40		SL. STR
1:35	B		+05 55'		4.14	AOI	10-10-10	"	80/40		FINE
1:00	C	03 ^h 15 ^m W	+08° 27'		2.8	B+	15-15	Sy	40/20		SL. STR
1:12	A	03 ^h 16 ^m W			"	-	15-15		"		SL. STR FINE
1:24	B	03 ^h 38 ^m W					15-15		40/21		SL. STR
1:38	C	03 ^h 45 ^m W			"	"	15-15		40/19		FINE
1:50	A	04 ^h 05 ^m W					15-15		40/18		FINE
2:04	B	04 ^h 17 ^m W					15-15		40/18		FINE
2:35	C	02 ^h 45 ^m W	-13° 24'		5.5	B+	10-11-10	"	200/55	increase the gain w 400 next time not enough exposure for this plate	FINE
0:27	A	01 ^h 50 ^m E	-14° 03'		4.4		10-10-10		20/70		SL. STR
										9 m @ 68° F / mwp-2	
4:17	B	01 ^h 23 ^m W	+33° 57'	3"	6.9	K5II	12-6-6-12	Hd Vis Bin	400/225	Increased exposure time for comparison to 36sec - Hu	V. SL. WK
2:36	C	00 ^h 30 ^m W	+02° 50'	3"	3.79	AOI	15-15	Sp. Bin Bln	40/20	light to slit was on ahead but not a beginning	FINE

93

* Baked April 18/19

Date April 24/25 '72 mmtue

Observer Hu/Blu-Wicks 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
35933	HD 79469	9 09.2	+2 44	G12	Ilao*	9/5	41°F	20:37	20:52	A	01 40W +
35934	HD 110411	12 36.8	+10 47	"	"	"		21:22	22:20	B	00 22E +
35935	HD 130109	14 41.2	+2° 19	"	"	"		22:28	22:50	C	01 59E +
35936	HD 130841	14 49.2	-15 56	"	"	"		23:00	23:11	A	01 41E -
35937	HD 141513	15 44.4	-3 07	"	"	"		23:39	23:53	B	01 59E -
35938	HD 141458	15 44.1	+13 01	"	"	13/3		00:02	02:46	C	00 49W +
35939	HD 152614	16 49.3	+10 20	"	"	13/5	36°F	02:51	03:06	B	00 10W +
35940	HD 164284	17 55.3	+4 22	"	"	"		03:11	03:31	A	00 30E +
35941	HD 164353	17 55.6	+2 56	"	"	"		03:43	03:55	C	00 07E +
35942	HD 164577	17 56.7	+1 18	"	"	"		03:59	04:17	B	00 14W +
35943	HD 161868	17 42.9	+2 45	"	"	"		04:21	04:31	A	00 41W -
35943T1	calibration step wedge										20

Dome Temp. - 3

Focus

Dome Temp. 24

Blankety-Blank-Blank
Mirrors ! ! ! !

94

[illegible]

Date April 25/26 '72 Tue/Wed Observer Bln

Julian Day

[illegible]

Dome Temp. 28° / $4 = 60\%$

Transparency Conditions Very Good but clouds hovering in west 96

[illegible]

* baked April 25/26

Dome Temp. ... 5

Focus

Dome Temp.

[illegible]

98

[illegible]

* Baked April 25/26

Dome Temp.

Focus

Dome Temp. 4

Hour Angle
End

Dome Temp. 27° 5490

Haze



SECONDARY	ADMINISTRATIVE
APRIL 22	.

- com PARISON I S STILL A BIT WEAK

109

*baked April 25/26
 **baked April 28

Date April 28/29 '72 Fri/Sat Observer Blu-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
35960	HD 73262	08 32.4	+6 03	G-12	IIa-O	13/5	55°F	19:52	20:00	A	01 35W +
35961	HD 79469	09 09.2	+2 44	"	"	"		20:02	20:08	B	01 05W +
35962	HD 87504	10 00.3	-12 35	"	"	"		20:10	20:22	C	00 30W -
35963	HD 104451	11 56.6	+30 06	"	IIa-Ob*	25/3		20:27	21:53	A	00 04W +
35964	HD 107325	12 15.3	+27 11	"	"	13/3		21:54	00:36	B	02 30W +
35964 T1	Cal step wedge		180 sec		IIa O	For	35960-62, 65, 67, 69				
T2	Cal step wedge		"		IIa Ob*	For	35963-64				
35965	^{130 109} HD 130809	14 41.2	+02 19	"	IIa-O	13/5		00:41	00:47	A	00 15W +
35966	HD 141458	15 44.1	+13 01	"	IIa-Ob**	13/5	49°F	00:50	02:46	C	01 11W +
35967	HD 152614	16 49.3	+10 20	"	IIa-O	13/5		02:49	02:57	B	00 17W +
35968	HD 154431	17 00.3	+34 56	"	IIa-Ob**	13/5		03 00	03:30	C	00 39W -
35968 T3	Cal step wedge		180 sec		IIa-Ob**	for	35966, 68				
35969	HD 170073	18 22.5	+58 45	"	IIa-O	"		03:33	03:45	A	00 26E -
35970	HD 164577	17 56.7	+1 18	"	"	"		03:49	04:01	C	00 13W -
35971	HD 164353	17 55.6	+2 56	"	IIa-Ob**	"		04:04	04:10	B	00 23W -
35972	HD 156729	17 14.2	+37 24	"	"	"		04:13	04:19	A	01 15W -

Dome Temp. 51

Focus _____

Dome Temp. _____

Dome Temp. 37° H=602

Transparency Conditions *very good-hazy*
Brilliant Aurora from 214 - 11.30
Much Faster i.e. secondary Aluminize

102

[illegible]

* baked April 29 / 72

Julian Day

[illegible]

Dome Temp. 38° H = 44%

Transparency Conditions Very Good - Slt Haze 104

[illegible]

+ baked April 29

Dome Temp.

Focus

Dome Temp.

[illegible]

Dome Temp. 50° 52%

Transparency Conditions *Good but hope.*

cloud by 2:20

106

[illegible]

607

* baked April 29

Date May 3/4 Wed-Thurs

Observer... *De-Tn*

Julian Day

[illegible]

Dome Temp. 48° 70%

Focus

Dome Temp.

Transparency Conditions *very hazy*

108

[illegible]

* baked April 29

xx baked May 4/5

Date May 5/6 Fri - Sat

Observer *Tn-Waterloo*

Julian Day

[illegible]

Dome Temp. 38° 52%

1) Fe comp. could still be somewhat stronger (10x3?)
Transparency Conditions Excellent
2) TRY TO GET A FOCUS PLATE THE NEXT CLEAR NIGHT.

ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:50	A	00 12 E	34° 26'	2"	5.3	G8V	15-15-15	Late Type	200/140		FINE
02:26	B	01 28 W	-50 50	2"-4"	6.0	K1 p	15-15-15	"	200/180	(GUIDING)	FINE
03:40	C	03 04 W	+40 52	1"-3"	7.4	M0 III	15-15-15	Late type	200/240	Some cloud	FINE
01:02	A	00 28 W	+33 27	1"-2"	4.92	G8 III	22-22	Wide Vis Bin	40/30	(LOOKS OK)	FINE
02:03	B	01 07 W	+10 10	"	5.4	K1 p	15-15-15	Late type	200/160	check Sp(I think its A or F)	FINE
02:36	C	00 09 E	+4 14	1"-3"	4.4	K3 II	22-22	"	40/34	broke in box	FINE
	A				5.76	G8 III	15-	wide vis bin	200/-	drive stopped - Cloud too	

* baked May 4/5

Observer *Sy-T₄*

Julian Day

[illegible]

Dome Temp. 38 77%

Transparency Conditions clearing by 22nd (good) ¹¹²

[illegible]

* barked May 4/5—

Dome Temp. .

Focus

Dome Temp.

[illegible]

Hour Angle
End

h	100
1	100

143

1473

9.0

Dome Temp. $38^{\circ}F$ 48%Transparency Conditions $\checkmark$ good

114

Focus

Dome Temp.

Hour Angle E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0-6	A	3 ^h 40 ^m	+8° 28.8'	2-3"	5.7	B	15-15	Be	40/20	bright star	SL STR
0-27	B						15-15		40/20		SL STR
0-41	C						15-15		40/20		V.S.L. STR
0-50	A						30		40/18		V.S.L. STR
0-18	B	2 ^h 40 ^m	-13° 20'	"	5.5	"	11-11-11		400/115		FINIE
0-51	C				4.7	"	11-11-11		200/61		SL STR
0-21	A				"		11-11-11		200/62		STRONG
0-44	B			1-2"	"	11-11-11			200/60		SL STR
0-06	C						11-11-11		200/60		SL STR FINE
0-19	A						16-16		200/61	circus cloud at eye	SL STR FINE
0-41	B						16-16		200/60		(CAUTIONING) SL STR
1-09	C			4-5"			16-16		200/60	clouds	SL STR
1-25	A	0 ^h 38 ^m		5-6"			16-16		200/60	clear	SL STR
0-42	A	1 ^h 45 ^m		5-8"			16-18		200/70	sls; seeing v bad	FINE
0-2	C		+15° 27'	5-6"	5.8		18-		400/	clouds	SL STR
9-0		m @ 68°F				mwp-2		11	Thurs 19 72		complete

* baked Apr 28
** baked May 11

Dome Temp. 44

Focus

Dome Temp. 32

Observer *McU*

Julian Day

Hour Angle

205W r

24.74

1945-46

20¹ 42W +

Dome Temp. 36°F H = 57%

Transparency Conditions *excellent, but overcast along SW horizon. Thin cirrus intermittently from 00^h until ~ 02^h*

[illegible]

* baked May 11

Observer... Mc 24

Julian Day

[illegible]

Dome Temp. 40°F H=56%

Transparency Conditions

Hazy, thin stratus. Much cloud along SW horizon. Clear by 2230.....

PLEASE TAKE A FOCUS PLATE

[illegible]

119

* baked May 11/12

Date May 17/18 Wed: Thurs Observer Sg-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 East
36018	48 Lib	15 52.5	-13 59	G12	D ₂ O ₁ 6	13/3		00:08	00:22	A	0009E
36019	"	"	"	"	"	"		00:23	00:33	B	
36020	"	"	"	"	"	"		00:35	00:47	C	
36021	"	"	"	"	"	"	62°	00:48	00:58	B	00:29W
36022	"	"	"	"	"	"		01:00	01:15	A	00:45W
36023	"	"	"	"	"	"		01:17	01:31	B	01:00W
36023 T1	Col step wedge for plates 36018 - 36027							180sec			
36024	48 Lib	15 52.5	-13 59	G12	D ₂ O ₁ 6	13/3		01:32	01:50	C	01:20W
36025	"	"	"	"	"	"		01:51	02:11	A	01:40W
36026	"	"	"	"	"	"		02:13	02:41	B	
36027	"	"	"	"	"	"		02:48	03:10	C	
36027 F1	Focus			"	"	13	59°			B	

Dome Temp. 5Focus Dome Temp. 50

Dome Temp. 56°F H: 8/30

Transparency Conditions Clear but hazy after 0412d

Focus

Dome Temp. 50 F 89 %

[illegible]

Date May 18-19, 1972 Thurs-Fri Observer B. In-Tn Julian Day 2454980

[illegible]

Transparency Conditions Good but hazy & cloudy

122

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:28	A	0155	+129 46	2-4"	8.7	gF3	15-30	sp Bin-Bin	800/137	Intermittent cloud ~22:00 <u>← OVERDEVELOP</u>	* WEAK (GUIDING) FINE
0:31	B	0013W	+12 53	2-3"	6.80	A0	15-15-K	"	800/550		# SL. WK
2:39	C	0049E	+35 11	1-2"	9.74	BOILh	15-15-15	Sp Bin-Bin	800/340	Cyg X-1	*
-36031			180sec		Dew	D-76	/ 15 m @ 68°F			19 May / 72 20 m @ 68°F	
4:03	A	0134E	+30 07	1-2"	5.6- 5.8	A0	15-15-15	"	200/30	WEAK COMP.	FINE VERY SL. CENTR TO R.
	B		in in/out out				6/6	m filter			
S			Dew.				20 m @ 68°F	in D-76			
										* COMPARISONS LOOK SOMEWHAT OUT OF FOCUS; ALSO THE BACKS OF PLATEHOLDERS A & C WERE MIXED WITH THE OTHER HALF OF CGM. -	

- * baked May 11/12
- ** baked May 18/19 (baked May 20 after exp. sig error)

Dome Temp.

Focus

Dome Temp.

Hour	Angle	End
00	44W	
00	09E	+
02	08E	+
02	15E	+
02	02E	+
02	30E	+
01	42E	+
00	07W	+
00	00	+
02	20E	

Dome Temp. 63° $H=54\%$

Focus

Dome Temp. 56° H = 7370

Transparency Conditions *Excellent*

124

→ ALSO, FOCUS LOOKS BAD
(developed 12 min MWP2. sp. shows
weak continuous Hg lines and
a few wk sm lines from star.

[illegible]

2 baked May 18/19
44 unbaked

44 unbaked

Date Sat. May 20-21/72 Observer Tu-Hb Julian Day

[illegible]

Dome Temp. 57

$H = 7350$

Transparency Conditions

part cloud - Haze

128

Focus

Dome Temp. 530

H: 83/8

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:48	A	00 31 E	+38° 31'	4.7"	2.9	B9.5p	20-20	Var. Apt's (Hb)	40/18		FINE
00:54	B	00 22 E	+36° 10'	"	1.8	A0p	20-20	"	40/18		FINE
01:27	C	01 45 W	+26° 49'	1.3"	6.7	gk2	15-15-15	sp B.4 - B.4	400/530		FINE
03:23	A	03 25 E	+6° 14'	2.3"	5.7	B8 II	15-15-15	Bright B Bin	200/90		FINE
07:47	B	03 57 E	26 16	"	4.9	B8	20-4-15	B std vel	200/90	(GUIDING.)	FINE
00:47	C	02 50 E	+27° 27'	"	6.3	B5 II	15-15-15	Bright B Bin	200/90		FINE
							20-76 / 15 m @ 68° E				
01:19	A	03 22 E	+62° 13'	2.4"	5.6	B9 V	15-15-15	Bright B Bin	200/100	broken 2" off	FINE
01:33	C	02 34 E	—	"	4.1	K3 II	20-20	Std. Vel.	40/28		FINE
02:13	B	00 35 E	+6° 14'	2.3"	5.7	B8 II	15-15-15	Bright B Bin	200/100		FINE
03:10	C	00 27 E	+27° 28'	3.4"	6.3	B5 II	15-15-	"	200/120		FINE

* baked May 20/21
** baked May 11/12

Dome Temp. 5
Focus
Dome Temp. 5

[illegible]

Dome Temp. 56° H=5820

Transparency Conditions Scattered Cumulus at first ¹²⁸
then hazy.

[illegible]

* baked 22 May

Date ~~Mon-Tues~~ May 22/23 '72

Observer me 4 - Tr

Julian Day

[illegible]

Dome Temp. 52°F H = 57%

13c

[illegible]

131 (1)

* baked May 22/72

Date Tues-Wed May 23/24/72 Observer Sy-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
36058 ⁽⁶⁰⁾	^{NCC} Super Nova (5253)	13 34.3	-31 09	G43	H ₂ O ₂	25/3		21:08	22:32	A	00 42W
36059 ⁽⁶¹⁾	48 Lib	15 52.6	-14 00	G12	"	13/3		22:48	22:54	B	-1
36060	"	"	"	"	"	"		22:57	23:03	C	
36061	"	"	"	"	"	"	71°	23:04	23:10	A	
36062	"	"	"	"	"	"		23:14	23:19	B	
36063	"	"	"	"	"	"		23:21	23:27	C	
36064	"	"	"	"	"	"		23:29	23:35	A	
36065	"	"	"	"	"	"		23:38	23:45	B	00 31 E
36066	"	"	"	"	"	"		23:48	23:54	C	00 13 E
36067	"	"	"	"	"	"		23:56	00:04	A	
36068	"	"	"	"	II ₂ O	"		00:05	00:13	B	00 06 W
36069 ⁷¹	"	"	"	"	"	"		00:14	00:22	C	00 15 W
36070 ⁷²	"	"	"	"	"	"		00:23	00:28	A	
36071	"	"	"	"	"	"		00:30	00:42	B	00 36 W
36072	"	"	"	"	"	"		00:44	00:52	A	00 46 W
36073	"	"	"	"	"	"		00:54	1:02	C	

Dome Temp. 5

Focus

Dome Temp.

Dome Temp. 68° M=34Transparency Conditions Excellent

32

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
22:32	A	00 42W	31 26	2-3	2.9	?	5-5-5	* looked fainter than 9 mag	800/60	Anson Please overdevelop the plate maybe MWP2 15min!	WEAK
22:54	B		-14 06	3-5	4.7	Be	15-15-15	Be prog	200/52	[There is a	FINE
23:03	C		"	2-4	"	"	22-22	"	200/53	double image of	FINE
23:10	A		"	"	"	"	22-22	"	200/57	the star as if	FINE
23:19	B		"	"	"	"	22-22	"	200/54	it were a visual	FINE
23:27	C		"	"	"	"	22-22	"	200/53	binary !! Some	FINE
23:35	A		"	"	"	"	22-22	"	200/55	defect in the optical	FINE
23:45	B	00 21 E	"	"	"	"	22-22	"	200/52	system } sy: may be out of focus.	FINE
23:54	C	00 13 E	"	3" 8"	"	"	22-22	"	200/52		FINE
00:04	A		"	6-7"	"	"	22-22	"	200/53		FINE
00:13	B	00 06 W	"	"	"	"	22-22	"	200/67		FINE
00:22	C	00 15 W	"	"	"	"	22-22	"	200/66		FINE
00:28	A		"	"	"	"	22-22	"	200/65		FINE
00:42	B	00 36 W	"	"	"	"	22-22	"	200/66	broken - 2pc	FINE
00:52	A	00 46 W	"	4-6"	"	"	22-22	"	200/68	MANY smudges	FINE
01:02	C		"	"	"	"	22-22	"	200/67	Cont next page	FINE

* baked May 12

Date Tues. 23- May 24

Observer Sg-TM

Julian Day

[illegible]

+ baked may 24

Re

Dome Temp. ...

Focus

Dome Temp. .

[illegible]

Dome Temp. 56° 56%

Transparency Conditions *Very good*

136

Poor sky at first. Re, Hd, Tr spent 2 hrs experimenting with Phillips Low-light-level TV camera. Works fine at 3^m, marginally at 4^m — not good enough.

[illegible]

Dome Temp. 56° H=42%

Focus

Dome Temp. 48° H=50%Transparency Conditions Excellent

138

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:23	A		$-31^{\circ}27'$	3-4	~8(?)	SN	5-5-5	SuperNova	700/85	USE MWP-2 MAXIMUM OVERDEVELOPMENT	SC. WRK
								mwp-2/15m	@ 680F	out of focus	
3:48	B	00 02E	$+12^{\circ}53'$	4"5"	6.80	A0	15-15-15	sp 6-1/4	400/200		SC. STR
								mwp-2/9.0m	@ 680F		
0:29	C	0200E	$+6^{\circ}14'$	3-4	5.7	B8III	15-15-15	Bright BBin	200/100		SC. STR
1:18	A	0200E	$+27^{\circ}29'$	"	6.3	B5III	15-15-15	"	200/100		SC. STR
1:40	B	0242E	$+62^{\circ}12'$	"	5.6	B9V	15-15-15	"	200/100		SC. STR
1:52	C	0130E	$+26^{\circ}15'$	"	4.9	B8	22-22	B"Std Vel"	40/18		U.S.C. STR
2:02	A	0145E	————	"	4/5	K3II	22-22	Std Vel	40/30		FINE
2:39	B	0038E	$+27^{\circ}29'$	"	6.3	B5III	15-15-15	Bright BBin	200/100		SC. STR
2:59	A	0123E	$+62^{\circ}12'$	4-5	5.6	B9V	15-15-15	"	200/100		SC. STR
3:10	C	0235E	$+9^{\circ}48'$	3-4	4.0	K2II	22-22	Std Vel	40/30		FINE
3:37	A	0108W	$+6^{\circ}13'$	4-5	5.7	B8III	15-15-15	Bright BBin	200/100		SC. STR
	B							6/6 no filter			GOOD

* baked may 24
** baked may 26
*** baked may 25

Dome Temp. —

Focus

Dome Temp. 5

Hour Angle
End

00 09W

0125W

013641

37E

01 10 E1

Dome Temp. 58°F H=4470

Focus

Dome Temp. 50

527.

Transparency Conditions Excellent

140

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:40	A	00 09 W		3-4	3.55	G5 III	45	std vel	40/28	(15" @ 68°F)	FINE
22 21	B		-31° 27	2-3	78	SN	5-5-5		800/60	overdevelop please Full moon but SN very good	WEAK
64°F				- DEVELOPED 2ND & 3RD PLATES - 3rd 10171 WASNT IN ORDER							
3:43	C	01 25 W	+8 38	2-3	6.86	A9 V	15-12-18	Close Vis Bin	400/200	(2nd. 15" @ 68°F)	FINE
3:56	B	01 36 W	"	"	5.15	A0 V	15-15-15	"	200/100		FINE
	A		+38 47	2+	mag 0.1	A0	12	std for Em	40/5		STRONG
3:22	C	00 37 E	+39 47	1-2	<10	Em	5-5-5	Em Obj	800/120	Looks much brighter	FINE
	A				mag 0.1	A0	14	std for Em obj	40/6		STRONG
3:46		01 10 E		2'	4.51	B1 IV	24-20	Wide Vis Bin	40/22		STRONG

* baked May 25

Dome Temp.

Focus

Dome Temp.

Hour	Angle	End
01	54E	+
00	15E	+
02	08W	
01	56W	+

Dome Temp. 52 4170

142

[illegible]

*banded May 26

Dome Temp. 6
Focus
Dome Temp. 4

Hour	Angle	End
03	15 E	+
03	38 E	+
02	37 E	+
02	06 W	+
02	43 W	+

Dome Temp. 52..... No. 452

Transparency Conditions Good - Some Cirrus
Scattered cloud (thin) all night

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:43	A	03 15 E	+17 11	1.2"	6.1	G4	5-5-5	Std. Vel.	200/34	(WEAK COMP)	FINE
01:13	B	03 38 E	+34 26	2	7.83	G5	5-5-5	Her X	800/130 (17)	(COMP WK)	FINE
02:13	C	02 37 E	+34 28	1.2"	^{V=} 8.5	F	5-5-5	"	800/120 (18)	"	FINE
03:00	A	02 06 W	+35 02	1.3'	(9.5)		5-5-5	"	800/105	seeing got bad	FINE
3:35	C	02 43 W	+34.37	2	7.95	F0	5-5-5	"	800/120		FINE
	B		in in/outout				8/8	filtering			GOOD - EXTREMELY WK

* baked May 26

Dome Temp. 6
Focus
Dome Temp.

Hour	Angle	End
3	394	
		10
00 07N		4
00 15E		-
00 31E		4
02 00E		10
		3 00N

146

[illegible]

to Behnd May 24
xx " " 25

Dome Temp. 5
Focus
Dome Temp.

[illegible]

Dome Temp. 54°F 75%

Transparency Conditions scattered cirrus clouds
good after 21.00

148

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
23:54	A	01 ^h 00 E	+08 38'	2	5.15	A0I	15-15-15	2nd Bw	40/200		FINE
23:56	B	00 ^h 23 W	"	2	6.86	A9I	15-15-15	"	40/200		(GUIDING) S.C.WK
23:55	C	00 ^h 20 E	+37° 32'	2	4.65	F0I	15-15-15	"	200/130		FINE
23:52	A	00 ^h 13 E	+33° 59'	2	7.31	G1I	15-15-15	"	40/260		U.S.C.WK
00:03	B	00 ^h 18 W	"	2	6.20	F8I	15-15-15	"	400/260		(GUIDING) FINE
00:11	C	01 ^h 55 E	+38° 48'				23-23	STD Em	20/4		(GUIDING) FINE
00:15	A	01 ^h 15 E	+39° 49'	~10		Em	15-15-15	Em * F	800/23	clouds broken into pieces	* WK
										* WEAK COMPARISON	

2. (A)

Dome Temp. 57°

Focus

Dome Temp. 50

Observer Bln-R

..Julian Day

Hour	Angle	D
End		

51 004) - 2

Dome Temp. $56^{\circ} \text{ F} = 86\%$

156

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:16	A	01 00 W	+12° 50'	4-5	6.80	A0	15-15-15	Sp Bin-Blu	400/282	Clouds	FINE
	B				4.93	A1V		"	200/	- 1/2" FOGGED (BLUE END)	

* B May 25

Dome Temp. ... 54
Focus
Dome Temp. ... 5

[illegible]

Dome Temp. 50°F H 63%

Transparency Conditions Cirrus from SWN 2320

152

[illegible]

3 May 26

Dome Temp. 5
Focus
Dome Temp.

[illegible]

Dome Temp. 54°F 57%

Transparency Conditions *scattered clouds - poor*

154

Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:54	A	03403W	+09° 30'	4	3.8	BOP	23-23	BO COMP.	40/25	Broken Spun	# SL-STR
01:16	B	01415W	+10° 28'	3	4.97	AI	23-23	Spd Bi-Bh	20/100		FINE
01:25	C	00438E	+02° 04'		3.74	AOI	23-23	"	40/20		FINE
02:15	A	05416E	+38° 25'		7.97	HOI	15-30	Hd Vi. Bn.	800/58	clouded over	VERY WEAK
										NO. 38	
										NO. 38T2	
										* F2 PARTIALLY	
										CUT OFF - TOO LONG SCIT	

* Baked June 5-6

Dome Temp. 53
Focus
Dome Temp. 4

[illegible]

Dome Temp. 49°F H-68%

We saw Venus set!

156
Hered three
clouds)

[illegible]

157 ①

* baked

Date 7/8 June 72 wed/Thurs Observer Sy-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
36144	4 Her	15 52.1	+42 51	G12	IIa06 [*]	13/5	67°	20 48	21:36	A	0130E
36145	"	"	"	"	"	"	"	22:40	23:04	C	0002E
36146	"	"	"	"	"	"	"	23:06	23:38	A	01:04W
36147	"	"	"	"	"	"	65°	23:40	00:08	B	01:04W
36147 T1	Cal step wedge		180 sec		"	for	plates 36144-58				
36148	4 Her	15 52.1	+42 51	G12	"	13/5	65°	00 17	00:33	C	0128W
36149	"	"	"	"	"	"	"	00 41	01:03	A	0157W
36150	"	"	"	"	"	"	"	01 06	01:22	B	0216W
36151	B Lgr	18 49.0 ⁷²	+33 20 ⁷²	"	"	9/5	"	01 29	01:33	C	1028E
36152	"	"	"	"	"	"	"	01 35	01 37	B	1023E
36153	"	"	"	"	"	"	"	01 38	01 42	A	
36154	"	"	"	"	"	"	"	01 43	01 47	B	
36155	"	"	"	"	"	"	"	01 48	01 50	C	
36156	"	"	"	"	"	"	"	01 53	01 56	A	
36157	"	"	"	"	"	"	"	02:00	02 06	B	0006W
36158	"	"	"	"	"	"	"	02:13	02 17	C	

Dome Temp. 62

Focus _____

Dome Temp. _____

Hour Angle
End

Dome Temp. 6.3° H=406

Transparency Conditions Scat cloud.....

158.

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:36	A	01 30E	+ 42 42	1" 6"	5.5	B	15-15-15	Be prog	200/80	cloud (broken 2 pes)	U.S.C. STR
02:04	C	00 02E	"	2" 3"	"	"	15-15-15	"	200/80		STRONG
02:38	A	00 26W	"	"	"	"	15-15-15	"	200/80		SL-STR
03:08	B	01 04W	"	"	"	"	15-15-15	"	200/80	cloud	SL-STR
03:33	C	01 28W	42 43	2-3	5.5	B	15-15-15	Be prog	200/80	(GUIDING) SL-STR	
04:03	A	01 57W	"	"	"	"	15-15-15	"	200/80		SL-STR
04:22	B	02 16W	"	"	"	"	15-15-15	"	200/80		SL-STR
04:33	C	00 28E	33 22	"	3.33	Bpe	23-23	"	40/21		SL-STR
04:37	B	00 23E	"	"	"	"	23-23	"	40/18		SL-STR
04:42	A		"	"	"	"	23-23	"	40/20		SL-STR
04:47	B		"	"	"	"	23-23	"	40/20		SL-STR
04:50	C		"	"	"	"	23-23	"	40/20	(GUIDING) SL-STR	
04:56	A		"	"	"	"	23-23	"	40/18	(GUIDING) SL-STR	
05:06	B	00 06W	"	"	"	"	23-23	"	40/16		SL-STR
05:17	C		"	"	"	"	23-23	"	40/16	cont pg 2	SL-STR

159 (2)

Date _____ Observer _____ Julian Day _____

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 25	A	00 25W	33 22	2"	3.33	Rpe	23-23	Re prog	40/20		SL-STR
02 32	R						23-23	"	40/20		SL-STR
02 37	C						23-23	"	40/16		SL-STR
02 42	A						23-23	"	40/18		SL-STR
02 56	B						23-23	"	40/20		SL-STR
02 54	C						23-23	"	40/19		SL-STR
3 01	A	01 00W					23-23	"	40/19		SL-STR
	B		+12 08	2.3"	4.8	R ^v	15	"	200/	Cloud	
							9.0 m @ 68°K	in new p.		2 / 8 June 1972	

* baked June 7/8

Dome Temp. 45

Focus

Dome Temp. ...

Four Angle
End

0125E +

Dome Temp.

Transparency Conditions *Good - some cloud*

162

[illegible]

(63)

Date Jun 10/11 '72Observer Cu-Tn

Julian Day

Ch-Hrs

visitors

{65, 80}

* sensitised 9 June

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36167	HR 5681	15 11.4	+33 41	G-24	I-N*	13/5	48°F	23 15	23 43	A
36168	HR 5681	15 11.4	+33 41	"	"	"		23 45	00 11	B
36169	HR 5854	15 39.3	+06 45	"	"	"		00 16	00 32	C
36170	HR 5854	15 39.3	+06 45	"	"	"		00 33	00 47	A
36171	HR 6556	17 30.3	+12 37.6	"	"	"		00 50	01 14	C
36172	HR 6556	17 30.3	+12 37.6	"	"	"		01 17	01 41	B
36173	Jupiter	18 22.5 ⁷²	-23 07	"	"	"		01 55	01 58	C
36174	HR 7796	20 16.6	+39 57.6	"	"	"		02 16	02 26	A
36175	HR 7796	20 16.6	+39 57.6	"	"	"		02 30	02 38	B
	HR 8308	21 39.8	+09 27	"	"	"		02 43		C
	HR 8308	21 39.8	+09 27	"	"	"				
36175T1*	Cal step wedge		180 sec		"	for plates		36167-175		

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

[illegible]

* baked June 7/8

Dome Temp. 5

Focus

Dome Temp. 4

Hour Angle
End

62 25E

0336W

2202F

Dome Temp. 43° H = 73%

some cloud - lots of cloud

166

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:03	C	02 25E	+10° 13'	4-8	4.30	138V	15-15-18	Sp Bin-Blu	280/100		
2:43	A		+35° 14'	3-6	~10	?	5-5-5	Her X-1	800/22	Star #51 ^(15 min) OVERDEVELOP	
3:05	B	03 36W	+10° 15'	5	4.30	138V	17-17-17	Sp Bin-Blu	200/100		
3:40	C	00 02E	+30 08	"	5.6	A0	17-17-17	"	400/104	Overdevelop Cloud + Dawn	

* sensitised 16 June

Dome Temp. —

Focus

Dome Temp.

Hour Angle
End

01 334

~~A7-A24~~

[illegible]

02154

 $\Delta 13\text{M}$

000000

02244

A. 145

11.555

10

Dome Temp. 50° H=58%

Focus

Dome Temp. 50° H=5770

Transparency Conditions *Excellent*.....

168.

Fantastic Aurora (red, purple, green, white)
(all night)

[illegible]

* Baked JUNE 7/18
** Baked JUNE 17/18

** Baked JUNE 17/18

Dome Temp. 20.0

Focus

Dome Temp. 5

Hour Angle
End

00 22E

60035.

10221

Dome Temp. 53°.....H= 83%

Transparency Conditions *Very hazy, some cloud*
Heavy cloud ~ 2315

172

[illegible]

* Dated June 7/8

Dome Temp. 6
Focus
Dome Temp. 1

[illegible]

172

[illegible]

* baked JUNE 16/17
 * baked JUNE 7/18

ok linked JUNE 7/8

Dome Temp. 63

Focus

Dome Temp. ...

Flow Angle
End

02"454

००५३

On 5/20/19

10

01 47E

50 125

128

[illegible]

0	0.5	1

Dome Temp. 52.0 F H 83%

Transparency Conditions Very hazy, some thin cloud...
Some haze but no cloud after 22.00
Full moon, very bright sky

174

[illegible]

175

 * Baked June 16-17
 ** Baked June 7/8

 Date 27-28 June 1972 Observer Sy - B 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
36200	^{48 Lib} HD 142993	15 52.5	-13 59°	G-12	IIaOB*	13/13	68°F	20:55	21:05	A	00°45E
36201	"	"	"	"	"	"		21:08	21:19	B	00°46E
36202	"	"	"	"	"	"		21:21	21:31	C	00°49E
36203	"	"	"	"	"	"		21:32	21:41	A	00°49E
36204	"	"	"	"	"	"		21:43	21:53	B	00°49W
36205	"	"	"	"	"	"		21:57	22:15	C	00°35W
36206	"	"	"	"	"	"		22:16	22:35	A	00°46W
36207	"	"	"	"	"	"		22:37	22:52	B	01°04W
36208	"	"	"	"	"	"		22:54	23:06	C	01°17W
36209	"	"	"	"	"	"		23:08	23:28	A	01°39W
36210	"	"	"	"	"	"		23:29	23:40	B	01°50W
36210 T1	calibration step wedge				IIaOB*			for plates 36200 - 36210			
36211	^{4 HER} HD 142926	15 52.1	+42 51	G-12	IIaOB**	13/15		23:49	00:01	C	01°15W
36212	"	"	"	"	"	"		00:03	00:15	A	
36213	"	"	"	"	"	"		00:19	00:37	B	
36214	"	"	"	"	"	"		00:40	00:58	C	

Dome Temp. _____

Focus _____

Dome Temp. _____

Dome Temp. 60°F 85%

Transparency Conditions

1776

Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1.05	A	00445E	-14° 07'		4.8	Be	15-15-15	Be Prog	200/54		Fine
1.29	B	00430E	"		"	"	17-17-17	"	200/53		Fine
1.31	C	00419E	"		"	"	17-17-17	"	200/53		Fine
1.41	A	00409E	"		"	"	17-17-17	"	200/53		Fine
1.53	B	00404W	"		"	"	17-17-17	"	200/53		Fine
2.15	C	00425W	"	2-3	"	"	17-17-17	"	200/54	clouds for SW	"
2.35	A	00446W	"	2-3	"	"	17-17-17	"	200/52		"
2.52	B	01404W	"		"	"	17-17-17	"	200/53	clear up	"
3.06	C	01417W	"		"	"	17-17-17	"	200/52		"
3.28	A	01439W	"	3-4	"	"	17-17-17	"	200/53		"
3.40	B	01450W	"		"	"	17-17-17	"	200/52	broken & discarded	"
6.10											"
00:01	C	02415W	+42° 42'	2-3	5.5	B	17-17-17	"	200/54		"
00:15	A		"		"	"	17-25	"	200/67	broken, both pieces there but the no. may have been written on wrong side!	"
00:27	B						17-17-17	"	200/64		"
00:58	C						17-17-17	"	200/65		"

xx Baked on June 7/8

Date June 27/28 Tue-Wed Observer Sy-Ri Julian Day 2454910.5

[illegible]

Dome Temp. 55°F

Transparency Conditions

178

Dome Temp. 55°F 89%

[illegible]

* baked June 28

Dome Temp. 66
Focus
Dome Temp. 61

Hour Angle End	D
0031E	-1
0007E	
0026W	
0046W	-1
0105W	
0136W	
0211W	+4

18.2

[illegible]

+ baked June 28

Dome Temp. 6

Focus

Dome Temp. _____

Hour Angle
End

AC 3441

Dome Temp. 58 H-927

Transparency Conditions Hazy

182

[illegible]

183

+ baked June 28

⊕ sensitized 23 June

Date July 1/2 Set Sun Observer T. Cu Julian Day 183

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
36229	HD 124897	14 11.2	+19 42	G12	Il006 ^Y	13/5	73°F	20 51	—	A	01 00/1
36230	HD 152614	16 49.3	+10 20	"	"	"	"	21 01	21 09	B	01 21E+
36231	HD 156729	17 14.2	37 24	"	"	"	"	21 17	21 21	C	01 32E+
36232	HD 141458	15 44.1	+13 01	"	"	"	"	21 36	22 36	A	01 11/1
36233	Jupiter	(1972) 18 11-36 ^s	(1971) -22° 14' 29"	G-24	I-N [⊕]	13/5	68°F	23 02	23 10	C	00 30E
36234	HR 8316	21 40.7	+58 22	"	"	"	"	23 25	23 51	B	02 20E+
36235	HR 6707	17 54.7	+30 12	"	"	"	"	00 18	01 42	A	02 08/1
36236	HR 8297	21 37.8	+35 03	"	"	"	"	01 56	02 52	C	00 25E+
36236 T1	Cal/step wedge		180 sec		Il006 ^Y	for plates		36229 - 32			
July 2/72 {Plates (36220 - 22, 26, 36229 - 32, 36 T1) (Plates 136225, 27, 28)}											
plates 33 - 36 in D-19/15 ^m											

Dome Temp. -6

Focus

Dome Temp. -6

Hour Angle
End

01 00/1

01 21E+

01 32E+

01 11/1

00 30E

02 20E+

02 08/1

00 25E+

mwp-2

mwp-2

Cloud

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
—	A	01 00W	+19 24	2"		K2UP	47"	Std VC1	40/28		
21 09	B	01 21E	+10 16	1-2"	4.30	B8V	17-17-17	Sp Bin-Dn	200/90		
21 21	C	01 32E	+37 22	"	4.79	H2V	17-17-17	"	200/90		
22 26	A	01 11W	+12 52	2"	6.80	A0	17-34	"	400/260		bud guiding Fine
23 10	C	0038E		2"		G0	4 1/2 min	I-E spec.	40/225	Evaluating life (1st old)	BLACK
23 51	B	03 29E	+58 42	"	V-I = 3.81	M2E	90-90-90	"	40/53	" (+ 1/2 curv)	BLACK (³ BLACK tube) broken
01 42	A	02 08W	+30 15	"	0.63	F2II	90-90-90	"	40/225	cloud in a while	BLACK
02 52	C	0025E	+35 26	"	3.19V	C6,3	90-180	-	600/252	large + cloud.	BLACK
2											bud
.T1)		mwp-2	9 min @	68°F							
		mwp-2	13 min @	68°F							

185

#11

* baked July 1

32

Date July 3/4 MON-TUESObserver McU-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
36236 ^{36A} 36B	HD161096	17 32.5	+04 37	G-12	IIaOb*	13/0.5		20 49.	20 54	A	02 17 E
36237	HD141458	15 44.1	+13 01	"	"	"		20 59	22 41	B	01 30 N
36237T1	Cal step wedge		180 sec		"	plates 36236 -					
36238	HD 192182	20 08.5	+38 09	G12	"	13/4		22 47	01 31	C	00 09 E
36239 40	Algo1	03 01.7	-40 34	"	"	9/7		01 39	01 42	A	
36240	"	"	"	"	"	"		01 51	01 54	B	
36241	"	"	"	"	"	"		01 55	01 59	C	
36242	"	"	"	"	"	"		02 01	02 04	A	06 30 E
36243	"	"	"	"	"	"		02 09	02 12	B	
36244	"	"	"	"	"	"		02 14	02 16	C	06 18 E
36245	"	"	"	"	"	"		02 19	02 21	A	06 17 E
36246	"	"	"	"	"	"		02 23	02 29	B	06 05 E
36247	"	"	"	"	"	"		02 30	02 33	C	06 02 E
36248	"	"	"	"	"	"		02 35	02 39	A	05 36 E
36249	"	"	"	"	"	"		02 40	02 44	B	05 51 E
36250 51	"	"	"	"	"	"		02 46	02 49	C	

Dome Temp. 50°F H=78%

Transparency Conditions Excellent - then some cloud

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20 54	A	02 ^h 17 ^m E	+4 38'	3"5"	3.93	K2II	500000	β 0ph STDVEL	40/25		
22 41	B	01 24 W	+12 54	4"-7"	6.80	A0	17-17-17	B/h Spec Bin.	400/260		1- I NE
23 1	C	00 09 E	+38 25	4'-6"	7.97	A0II	17-17-17	Hd Vis Bin	800/250	please overdevelop!	
23 42	A		+40 54	bad	2.0	B8I	25-25	sp/ln Bin	40/20		
23 54	B		"	"	"	"	25-25	"	40/20		
23 59	C		"	"	"	"	25-25	"	40/20	marked twice with pencils	
24 04	A	06 30 E	"	"	"	"	25-25	"	40/20		
24 12	B		"	"	"	"	25-25	"	40/20		
24 16	C	06 18 E	"	3+5	"	"	25-25	"	40/20		
24 21	A	06 13 E	"	"	"	"	25-25	"	40/20		
24 29	B	06 05 E	"	"	"	"	25-25	"	40/20		
24 33	C	06 02 E	"	"	"	"	25-25	"	40/20		
24 39	A	05 56 E	"	"	"	"	25-25	"	40/21		
24 44	B	05 51 E	"	"	"	"	25-25	"	40/20		
24 49	C		"	"	"	"	25-25	"	40/20		

Dome Temp.

Transparency Conditions *Excellent*

188

[illegible]

189

Date 1972 July 4/5 Tue/Wed Observer B. L. n. - T. n. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	D
^{53A} 36253 55	HD130841	14 45.4	-15 38	G-12	IIa-D	9/5	61°F	20:50	21:12	A	00 58W	1
36254	Algol	3 01.7	+40 34	"	"	9/9		00:07	00:25	B	07 06E	+
36255	"	"	"	"	"	"		00:31	00:45	C	07 45E	
36256	"	"	"	"	"	"		00:48	00:57	A	07 33E	
36257	"	"	"	"	"	"		01:00	01:12	B		
36257T1	Cal step	wedge	180 sec		"							
36258	Algol	3 01.7	40 34	G-12	"	9/9		01:16	01:24	C	07 07E	
36259	"	"	"	"	"	"		01 26	01:30	A		
36260	"	"	"	"	"	"		01 32	01:38	B		
36261	"	"	"	"	"	"		01 41	01:45	C		
36262	"	"	"	"	"	"		01 51	01:55	A	06 35E	
36263	"	"	"	"	"	"		02 02	02 05	B	06 25E	
36264	"	"	"	"	"	"		02 14	02 18	C	06 13E	
36265	"	"	"	"	"	"		02 23	02 26	A	06 04E	
36266	"	"	"	"	"	"		02 28	02 31	B	05 59E	
36267	"	"	"	"	"	"		02 33	02 37	C	05 54E	

Dome Temp. ...53°..... H=4870

Focus

Dome Temp.

Transparency Conditions *very good - cloud in South*

190

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1.12	A	00 58W	+15 51	6"	2.89	A7 III	15-1515	Sp. Bin - Blu	40/18	cloud	
0.35	A	08 06E	+40 52	8	2.0- 3.2	B8 II	24-24	"	200/162		
0.45	C	07 45E	"	"	"	4	22-22	"	200/161		
0.51	A	07 33E	"	"	"	4	22-22	"	40/32		
1.02	B		"	"	"	11	22-22	"	40/32		
1.24	C	07 07E	40 52	6"	"	11	22-22	sp. Bin - Blu	200/160	(maybe fogged)	
1.31	A		"	"	"	4	22-22	"	40/33	(dome lights on for sec)	
1.38	B		"	"	"	11	22-22	"	40/32		
1.45	C			4"	"	11	22-22	"	40/34		*
1.55	A	06 36E	40.55	"	"	11	22-22	"	40/32		*
2.05	A	06 25E	"	"	"	11	25-25	"	40/32	* SCITZ FOR LONG	*
2.18	C	06 13E	"	"	"	11	25-25	"	40/32		*
2.26	A	06 04E	"	"	"	11	25-25	"	40/32		*
2.31	B	05 59E	"	"	"	11	25-25	"	40/32		
2.37	C	05 54E	"	"	"	11	25-25	"	40/32		

Date July 5, '72

Observer Blm - Tm

Julian Day

[illegible]

Dome Temp. 45°.....

192

[illegible]

193

* baked July 6

Note: due to number mix up, Let us outlaw numbers 36274, 75, T_4 (600)

Date July 6-7 Thurs-Fri Observer Bla-Tn Julian Day 173.5

[illegible]

Dome Temp. 60° H=42%

Focus 40-R

Dome Temp. 53° H=68%

Transparency Conditions scattered cloud but good

194

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:40	A	00 42W	+2 05	2"	3.74	A0V	50	sp Bin-B/L	40/20		FINE
1:03	B	02 39E	+58 49	1"	4.93	A1V	25-25	"	40/20		FINE
3:45	C	02 32W	+35 09	1-2"	9.74	B0Ib	17-17/17	"	800/396	OVERDEVELOP (MAXIMUM)	FINE
									→	15" m @ 68°F	
									→	9.0 m @ 65°F / mwp-2	
2:59	A		+28 14	1-2	4.93	B8V	18-18-18	Algol Std.	40/19		FINE
4:10	B	00 48W	-13 55	3	4.18	B8V	25-25	sp Bin-B/L	40/19		FINE
			in in / out out				8/8	no filter			VERT SC. CENTRATOR

195

* bated July 6

Date July 7-8 Fri-Sat

Observer B/a-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
36281	HD130109	14 41.2	+2 19	G-12	Tla-Ob*	13/15		20 39	20 43	A	0 45V+
36282	HD152614	16 49.3	+10 20	"	"	13/15		20:45	20:49	B	0116E+
36283	HD141458	15 44.1	+13 01	"	"	13/15	68°F	21:53	22:03	C	0102W+
36283T1	Cal step wedge	180sec			"	for plates 36281-83, 85-					
36284	BD+40°4214	20 28.7	+40 36	G12	"	25/13		22:10	02:30	A	0046U-
36285	Algol	03 01.7	+40 34	"	"	9/9		02:38	02:50	C	0529E+
36285T1	Cal step wedge	for 36284			"						
36286	Algol	03 01.7	40 34	G12	"	9/9		02:52	03 02	B	
36287	"	"	"	"	"	"		03 05	03 15	A	0503E
36288	"	"	"	"	"	"		03 17	03 27	B	0451E
36289	"	"	"	"	"	"		03 30	03 38	C	0440E
36290	30 Peg	22 16.7	+27.50	"	"	9/15		03 43	03 57	A	0025V+2

Dome Temp. 6°

Focus 40

Dome Temp. 51°

Dome Temp. 64 40%

Focus 40-12

Dome Temp. 51° H=81%

Transparency Conditions Hazy

196

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 43	A	0 45 W	+2 04	1"-2	3.74	A0V	25-25	Sp. Bin-Blw	40/17		(GUIDING) FINE
01 49	B	01 16 E	+10 17	1"-2	9.30	B8V	25-25	"	40/17		(GUIDING) FINE
02 03	C	01 02 W	+12 53	2"-3"	6.80	A0	17-17	"	400/240		(GUIDING) FINE
02 30	A	00 46 W	+49 05	2"	9.8	A?	17-17	Cyg X-3	800/225	OVERDEVELOP (MAXIMUM)	(GUIDING) SL. WK
02 50	C	05 29 E	+40 55	2"	2.2- 3.47	B8V	25-25	Radio Flux	40/29	MIL Eclipse @ 03:50	FINE
03 02	B		+40 55	2"	2.2- 3.47	B8V	25-25	Rad Flux	40/28		(GUIDING) FINE
03 15	A	05 03 E	"	"	"	"	25-25	"	40/28		FINE
03 27	B	04 51 E	"	"	"	"	30-30	"	40/28		FINE
03 38	C	04 40 E	"	"	"	"	30-30	"	40/28		FINE
03 57	A	00 25 W	+28 13	1"	4.83	B8V	25-25	"	40/15		FINE

197

* balced July 6

Date July 8/9 '72 Sat/sun Observer Blm-Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36291	HD 152614	16 49.3	+ 10 20	G-12	IIa-0	9/5		22:20	22:44	A	00 42W
36292	HD 164284	17 55.3	+ 4 22	"	"	9/5		22:47	23:31	B	00 23W
36293	HD 161096	17 38.5	+ 4 37	"	"	13/5		23:33	23 43	C	00 53W
36294	HD 187459	19 45.0	+ 33 11	"	IIa-0*	13/5		23:47	01 41	A	00 44W
36294T1	Ca/step wedge		180sec		IIa-0*	for plate 36294					
36294T2	Cu/step wedge		"		IIa-0	for plates 36291-93, 36295-					
36295	HD 180163	19 10.4	+ 38 54	G12	"	13/5		01 48	01 58	B	01 37W
36296	32 Peg	22 16.7	+ 27 50	"	"	9/5		02 02	02 36	C	00 52E
36297	Algol	03 01.7	+ 40 34	"	"	9/9		02 41	02 53	A	05 22E
36298	"	"	"	"	"	"		02 56	03 06	B	
36299	"	"	"	"	"	"		03 09	03 18	C	
36300	"	"	"	"	"	"		03 20	03 28	A	04 48E
36301	"	"	"	"	"	"		03 29	03 37	B	04 38E

Dome Temp. 5

Focus 40

Dome Temp. 5

Dome Temp. 52° H: 85%

Transparency Conditions Very Hazy!

198

[illegible]

* baked July 6

Dome Temp. ...

Focus 40

Dome Temp. —

[illegible]

Dome Temp. 57° 80%

Transparency Conditions Clear by 1 but hazy

[illegible]

Dome Temp. ... 6.2 H=8020

some cloud

202

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21:24	A	00 30W	-14 08	3-4"	4.7	Be	17-17-17	Be program	200/65		FINE
22:06	B	01 11W	"	3-8"	"	"	17-17-17	"	200/65		FINE
23:07	C	02 12W	"	2-3	"	"	17-17-18	"	200/65		J.S.C. WK
03:40	A	02 50W	+42 41	"	5.5	"	18-17-18	"	200/70		FINE
05:30	B	03 40W	+42 41	5-3	5.5	Be	18-18-18	Be Prog	200/70		FINE
1:02	C	04 10W	"	"	"	"	18-17-17	"	200/26	Cloud Anson - Please remove plates from oven (put in 1 AM, Wed)	J.C. WK

* baked June 28

Dome Temp.

Focus 4

Dome Temp.

[illegible]

Dome Temp. 66° H = 81%

Transparency Conditions *Very Low*

204

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
12:32	A	0° 56 E	+38° 48'		0.0	A0 II	26-26	B ₁ - Std. V ₁	20/11		(Guiding) SL. STR
13:52	B	0° 35 W	+58° 50'	3"	4.93	A1 II	17-17-17	B ₁ - Std. B ₁	400/200		FINE
14:05	C	01° 00 W	+39° 08'		4.3	B5	17-17-17	Std. V ₁ B ₁ - B ₁ type	400/200		1.56. STR
14:20	A	01° 23 W	+10° 35'		4.15	A3 II	17-17-17	B ₁ - Std. V ₁	400/240	clouds	SL. WK
	3							8-8 no filter			SL. CENTRE TO RED

dated 1972 July 12 (14 hrs)

Dome Temp. 61

FOCUS 48

Dense Temp. 6

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

01445E

02 14E +

AME 1

Dome Temp. 62° 90%

206

[illegible]

* baked July 12 (4 hrs)

Dome Temp.
Focus 20
Dome Temp.

Hour	Angle	End
0416E		
0425E		
0435E		
0452W		
0500-50		
71 19N		
0500-50		

Dome Temp. 60°F 88°F

Transparency Conditions

[illegible]

Date July 20-21 Thurs-Fri Observer LR-TA Julian Day 174-175

[illegible]

Transparency Conditions Very hazy, cloud

210

[illegible]

* baked July 21

Dome Temp. 7
Focus 20
Dome Temp.

[illegible]

Dome Temp.

Transparency Conditions *very good*

212

(Pigeon with foot tag 6571 CU 72)

Ex-mtr very bad - needs drying chems)

[illegible]

Dome Temp. 67.....

$$H = 75\%$$

$A = 873$

Transparency Conditions Very good

214

[illegible]

* baked 1972 July 21

Dome Temp. 71
Focus 20
Dome Temp. 71

How Angle End	
13'	
0 25'	
00 25'	
01 25' / 4	
0 3 W	
0 4 W	
0 4 W	

Dome Temp. 63° H = 83%

Some sea anemones

216

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21:32	A	0139W	+12 52	3"	6.80	A0	17-17-17	Bin Spec Bin	200/130		FINE
23:44	B	0114E	+50 05	3" 7"	8.1	M3II ^{1/2}	17-17-17	Hd Vis Bin	400/270		SL. WK
23:59	C	0021E	+77 40	4" 6"	4.40	B9III	25-25	V389 Cyg Prog	40/26		FINE
2:04	A	0125W	+3 23	4 "6"	7.9	K2III	17-17-17	Hd Vis Bin	400/240		SL. WK
2:46	S	0130W	+30 10	3-4	5.6-5.8	B9V	17-17-17	V389 Cyg Prog	200/120		FINE
3:47	C	0108W	+52 19	3" 5"	7.4	G8II	17-17-17	Hd Vis Bin	40/260	slit 15 width	SL. WK
3:59	A		+5 33	3"	4.64	F7V	25-25	std vel	40/23		FINE
	B		in air / out				B/K	hott 4 cl			SL. CENTRAL TO RED
4:18	C	0041W			4.24	B5	25-25	sp Bin - R/h	40/17		FINE

* baked July 24

Dome Temp. ...
Focus ... 2 ...
Dome Temp. ...

Hour	Angle	End
00	215	+
01	214	+
02	211	-
03	208	+
04	205	+

Dome Temp. ...61° N= 6920

Transparency Conditions Scattered cloud

good Aurora thru cloud
Excellent most time

218

[illegible]

Dome Temp. *60°* *H = 80%*

Focus *32-R*

Dome Temp.

Transparency Conditions *scattered clouds haze*

very windy

220

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

A

00 465

33 21

2.4"

7.5

B

17-19-K

Bin. Search

400/118?

exp. time > 1/12 due to slow lens

FINE

* baked July 24.

Dome Temp. 5
Focus 20
Dome Temp.

[illegible]

Dome Temp.

Transparency Conditions *Cloudy*

222

[illegible]

* baked July 27

Dome Temp.
Focus
Dome Temp.

Hour	Angle	End
01	19E	
02	21E	
03	22E	
04	28E	
05	30E	
06	30E	
07	30E	
08	30E	
09	30E	
10	30E	
11	30E	
12	30E	
13	30E	
14	30E	
15	30E	
16	30E	
17	30E	
18	30E	
19	30E	
20	30E	
21	30E	
22	30E	
23	30E	
24	30E	

Dome Temp. 60° H: 6070Transparency Conditions Excellent

224

Focus

Dome Temp. 52° H: 8970

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:35	A	01 19E	+3 00	1.2"	4.0	B5	25-25	Std. vel.	40/17		STRONG
02:50	B	01 17E	+38 54	"	9.15	B	15-19-17	Bin Search	800/260		FINE
01:05	C	00 52W	+37 44'	"	9.17	B _p	17-15-17	"	800/265		FINE
02:31	A	00 28E	+58 08	"	8.61	B3	17-17-17	"	800/260	Fld drawn	FINE
01:52	B	02:21E	+57 02	2.3"	8.4	B	17-17-17	Bin-Search	800/160		FINE
04:03	C	00:21E	62 48	2"	4.3	B0	25-25	"	40/17		(GUIDING) STRONG
			in in	out out			8/8	no filter			GOOD
							slates	36346 - 56	dev.	9.0 m @ 68°F / 2 f. July	

225 #1

* baked July 27
** baked July 24

Date July 28-29 1972 Observer Sy-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
36357	4 Her	15 52.14	+42 51.4	G12	IIaO ^{b*}	13/3		20:37	20:51	A	1 06W
36358	"	"	"	"	"	"		20:53	21:05	B	
36359	"	"	"	"	"	"		21:07	21:19	C	1 34W
36360	"	"	"	"	"	"	67F	21:20	21:32	A	
36361	"	"	"	"	"	"		21:34	21:46	B	2 00W
36362	"	"	"	"	"	"		21:48	22 —	C	2 15W
36362 II	Cal step wedge		180 sec		"						
	4 Her	15 52.1	+42 51	G12	IIaO^{b*}					B	
36363	MWC 347	20 27.2	+43 59	G12	IIoO ^{b*}	13/3		22:09	23:25	A	00 55E
36364	"	"	"	"	"	"		23:25	01 01	C	00 40W
36365	"	"	"	"	IIaO ^{b*}	"	64°	01:01	02 43	B	02 24W
36365 I	Cal step wedge		180 sec		"	for	36365				
36366	α Cyg	20 38.0	44 55	G12	IIoO	9/5		02 54 ³⁰	02 56 ⁰⁰	A	02 26W
36367	"	"	"	"	"	"		2 57 ⁴⁵	02 59 ⁵⁰	C	
36368	"	"	"	"	"	"		3 02 ³⁰	3 04 ⁴⁵	B	
36369	"	"	"	"	"	"		3 06 ⁰⁰	3 08 ⁰⁰	A	2 38W

Dome Temp. 54° F 4%Transparency Conditions clear clouds

226

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:51	A	1 06 W	43 42	1-2"	5.5	B	25-25	Be	200/68		SC. STR
1:05	B		"	3-4"	"	"	17-17-17	"	200/65		U.S.C. STR
1:19	C	1 34 W	"	2-3"	"	"	17-17-17	"	200/65		U.S.C. STR
1:32	A		"	2"	"	"	17-17-17	"	200/65		U.S.C. STR
1:46	B	2 00 W	"	"	"	"	17-17-17	"	200/65		SC. STR
2-	C	2 15 W	"	"	"	"	17-17-17	"	200/68		U.S.C. STR
					5.5	B		Be prog	200/		
23:25	A	00 55 E	+44 16	1-2"	8.0	CO	17-17-17	Be prog	800/400		FINE
01:01	C	00 40 W	"	"	"	"	17-17-17	"	800/400		
2:43	B	02 24 W	"	"	"	"	17-17-17	"	800/400		FINE
25:00	A	02 26 W	—	2"	1.4	CA	45	Be prog	40/20	{ NO NUMBERS	
29:00	C			"	"	"	45	"	40/20		
3:04	B			"	"	"	45	"	40/20		SC. STR
7:08	A	2 38 W		"	"	"	45	"	40/20	end	SC. STR

Dome Temp.

Transparency Conditions

228

[illegible]

4 sent 4/20/04 July 28

Date 29-30 July 1972 Observer Cu Tn Julian Day 243

[illegible]

Dome Temp. 52 657

Transparency Conditions

23c

[illegible]

*x baked July 12

Donne Temp. 6

∞ 27E

232

Dome Temp. 60°F, H = 70%

Transparency Conditions *Hazy but good*

Focus

Dome Temp. 60° H = 79%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 59 W	+12 54	2-3"	6.80	A0	17-17-17	Bln Spec Bin	400/260	Lost 15" - ^{broken 2pc} burned out drive fuse	FINE
00 50 E	-12 50	2-3"	4.84	B9 I	17-17-17	1389 Cygni Comp	200/130		FINE
00 21 E	+77 41	"	4.40	B9 II	25-25	"	40/26		FINE
00 27 E	+30 07	"	5.6- 5.8	B9 II	17-17-17	"	200/130		
								Extra plate, somewhere in here, unexposed	
00 16 W	+33 37'	2-3	7.74	F8 V	17-17-27	Vis Bin - Hd	800/450	broken 2pc.	
00 45 W	+52 18	1-3"	7.75	F4 III	17-17-17	"	800/450	fld drawn	
00 54 W	+5 34	2-3"	4.64	F7 V	25-25	std vel	40/25		
	in in / out out				8/8	no filter			GOOD
								Anson - Please cut plates & put in oven / box I'm incapable of cutting in	

Baked July 31

Date Thurs Fri Aug 3-4 1972 Observer LR - Ri Julian Day 174.5

[illegible]

Dome Temp. 50°F 70%

Transparency Conditions *clean up 21:30*

some clouds after 00.00
very bright aurora

234

[illegible]

* July 31

Dome Temp. ... 5
Focus ...
Dome Temp. ...

Hour	Angle	End
00	40E	+0
01	50W	+3
01	00E	+0
01	20W	+0
01	57W	+0

Transparency Conditions good
an aura of integrity

236

[illegible]

* July 31

Dome Temp. 5.

Focus

Dome Temp. 5

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

42 E 4

01495E +3

03410 11 + 3

60 2000

1

Dome Temp. 55°F 69%

Focus

Dome Temp. 51°F 74%

Transparency Conditions excellent with some thin cirrus
cirrus again tonight

238

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:33 A 00 ^h 28E	+04°37'	2	2.77	t2W	25-25	std-Bln	40/32		FINE
00:50 B 01 ^h 05E	+33°30'	2	5.4	B9	17-17-19	B-std-Bln	40/20		FINE
01:25 C 03 ^h 10W	+35°10'	2	9.74	B00b	17-17-17	CygX-1	80/411	clock face blow some thin cirrus - 23:30	FLEXURE?
		12 min @ 68°F / mwp-2						overdevelop - right side beyond box	
01:05 A 00 ^h 26W	+08°44'	2	6.15	A9s	17-34	UUPsc	400/35	clouds overdevelop	WEAK
		9.0 min @ 68°F / mwp-2							

* baked Aug 5-6

Donne Temp.

Focus

Dome Temp. ...

Hour Angle
End

2028

4 10W+

154W+

1.25E'

232E +

0 19W +

0526

220 w/

1

Dome Temp. 54° 6690

Focus

Dome Temp. 46° 897Transparency Conditions *Excellent - some cloud**slight Aurora again*

240

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 44 A	3 ^h 28 ^m W	19° 25'	3"	1.29	K2 III P	50	Standard Vel	40/25	FINE
3:01 B	4 10W +12 53	3"-5"	6.80	A0	17-17-17	sp B in - B in	400/250	2nd Pri	(GUIDING) FINE
3:19 C	1 54W +58 50	3'	4.93	A1 V	17-17-17	"	200/93	"	FINE
0:07 A	1 25E +29 27	3"-5"	6.28	A5	17-17-17	"	400/200	"	(GUIDING) FINE
0:43 B	2 33E +8 43	"	6.15	A9s	17-17-17	"	200/60	1st priority	FINE
								Dome dripping	
1:48 C	0 19W +24 35	"	7.01	A0	17-17-17	sp B in - B in	400/181	2nd Pri. Fld down	(Tom, you should check this Fld) FINE
2:22 A	0 53E +8 44	"	6.15	A9s	17-17-17	"	200/65		FINE
2:42 B	2 38W +46 07	"	4.7	B2	17-17-17	B std vel	200/90		(GUIDING) FINE
					8/8	no filter			ST. CENTRE TO RED

* Baked Aug 5-6 / 72

Dome Temp.
Focus
Dome Temp.

Hour	Angle	End
2	02E	+
2	15E	
00	15W	+

Dome Temp.

Transparency Conditions *Very cloudy*.....

2.42

[illegible]

* baked Aug 5-6

Dome Temp. 64
Focus
Dome Temp.

Hour	Angle	Dev
	End	
00	47E	3
02	44W	38
02	7E	41
03	41E	12
00	30W	+8
01	4W	-
01	03E	

Dome Temp.

Transparency Conditions *very good but hazy* ²⁴⁴

[illegible]

* baked Aug 11/12

Dome Temp. 56°

Focus

Dome Temp.

Hour Angle
End

104W1+

041W

0100

01 5747

1221

01122

Dome Temp.

some cloud later

Good Aurora again - 02^h

2.48

[illegible]

247

* bated on Aug 10/11

Tues - wed

Date Aug 15 - 16

Observer Sy - Tr

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
36430	55 Cyg	20 45.53	+45.446	G-12	Ilao ^{6*}	13/5		20 22	20 34	A	
36431	"	"	"	"	"	"		20 36	20:48	B	239E
36432	"	"	"	"	"	"		20 51	21:01	C	
36433	"	"	"	"	"	"		21 04	21:14	A	
36434	"	"	"	"	"	"		21:16	21:25	B	
36435	"	"	"	"	"	"		21:27	21:35	C	
36436					"	"	65°	21:36	21:50	A	134E
36436 T1	Col/step	wedge	180sec		"	platin	36430 - 36441				
36437	MWC 381	21 52.9	+64 50.7	"	"	13/3		22-50	23:04	C	130E-60
36438	"	"	"	"	"	"		23:13	23:29	A	
36439	"	"	"	"	"	"		23:32	23:51	B	
36440	"	"	"	"	"	"		23:53	00:07	C	
36441	"	"	"	"	"	"	63°	00:08	00 20	A	015E
36442	MWC 376	21 39.28	57 16.7	"	Ilao	"		00 30	01:08	B	
36443	N Dec 67	^{0.1970} 20 41	+19 1.8	"	"	22/3		01 30	03:40	A	421W
36444 T1 (new star?)	Col/step										
36444 A	λ Psc	23 36.9	4 1° 14'	"	"	22/3		03 46	03 52	B	133W

Dome Temp. 58° H=5070Transparency Conditions *Fair - cirrus cloud* 248

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:24	A	A	46 03	2"	5.2	B ⁺	17-30	Be	200/100	Gering	(GUIDING) SL-STR
00:48	B	2 38E		"	"	"	25-25	"	200/100	The automatic	(GUIDING) SL-STR
01:01	C						25-25	"	200/100	guides does not work	SL-STR
01:14	A						25-25	"	200/100	properly, The magnetic	SL-STR
01:21	B			2-3			25-25	"	200/100	catch seems to work	SL-STR
01:33	C		cleaned window after	1st			25-25	"	200/96	only intermittently:	(GUIDING) SL-STR
01:50	A	1 36E		"			25-25	"	200/85	(cloud) saved	SL-STR
03:04	C	1 30E + 65° 15'		2-3	5.8	B ⁺	17-17-17	"	200/70	(slips) Fld drawn) slit length uncorrected	SL-STRONG
03:29	A						17-17-17	"	200/71		STRONG
03:51	B						17-17-17	"	200/74		STRONG
04:07	C			1-2"			17-17-17	"	200/70		(GUIDING) SL-STR
04:20	A	0 15E		1-3"			17-17-17	"	200/70		SL-STR
04:08	B		57° 41'	2-3"	7.1	B ⁺	17-17-17	"	400/140		(GUIDING) FINE
04:40	A	4 21W	19 07	2"	9.5		17-17-17	nova Per	800/61	} Among, please over develop plates 43, 43 T1 & 44 together: MWP 2 15" (at far right of exp box)	VERY WK 43 T1 & 44
04:52	B	1 33W	+ 1 44	"		A5	22-22		200/57		

Date Fri-Sat Aug 18-19 Observer Tn-Wat Julian Day 2454310.5

[illegible]

Dome Temp. 65

Transparency Conditions

250

Focus

Dome Temp.60.....

[illegible]

* baked Aug 18/19

Observer LR-Tn

Julian Day

Hour	Angle	End
2	10W	+
3	34W	100
4	10W	+
5	8W	+
6		
7		
8		
9		
10		
11		
12		

Dome Temp. 60° 76°

Transparency Conditions *Excellent*

252

[illegible]

* baked Aug 18/19

Dome Temp. ... 6
Focus ...
Dome Temp. ...

Hour Angle
End

Dome Temp. 60 50 L

254

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
051	A	00 22 E	+02:58	1"-2"	4.0	B55G	25-25	Std. Vel	200/90		STRONG
252	B	02 11 W	38:55	"	9.15	B	17-17-17	Bin. Search	800/265		D.SL. STR
280	A	02 14 W	54:24	"	9.21	B2	17-11-12	"	800/275	out of balance (exp. mtr.)	SL. STR
444	B	03 22 W	58:09	"	8.61	B3	17-17-17	"	800/250		(GUIDING) SL. STR
	B						8/8	no filter			CENTRE TO VIOLET

255

*baked Aug 18/19

Date Aug 21-22 Mon-Tues Observer LR-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
36455	HD 201345	21 03.9	33 00	G-12	IIaD [*]	13/13		20:16	22 12	A	01 10 E
36456	HD 194280	20 19.7	38 37	"	"	18/13	73°F	22:20	01 08	B	02 30 W
36457	HD 218195	23 01.0	57 43	"	"	13/13		01:14	04 40	C	03 20 W
36457T1	Cal step wedge		180 sec		"						
36458	20 Tau	03 39.9	+24 04	G12	"	13/15		04:43	04:51	A	01 07 E
Aug 25/72 Test of new 1200 g/min grating for photo.											
36458T1				G16	IIaF	13				C	Graph
" T2				"	"	"				B	
T3				"	"	"				B	
T4				"	"	"				B	
T5				"	"	"					
T6				"	"	"					
T7				"	"	"					

Dome Temp. 63° $H=7670$

2TG

Starting Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 12	A	01 10E	+33 21	1"-2"	7.52	B0	17-17-17	Bin Search	800/275	min (930-40) drive off - blew fuse	SL. STR.
1 08	B	02 30W	+38 55	<1"	9.15	B	17-17-17	"	800/265	*Extremely good seeing	FINE
4 40	C	03 20W	+58 07	"	8.61	B3	17-17-17	"	800/260		FINE
4 51	A	01 07E	24 21	2"	3.8	B9	25-25	std vel	40/17	Flt drawn	FINE
Photo		graphical region				Hd-Bln					
C							Fl 1m	C bottom - B top (error)		} 2nd order shows at red end (3740 gap) + we miss the 4900 group / 2nd order at other end	
B							"				
B							Ne 30	} forgot to take out neutral filter - nothing on.		} so we tilted the grating counterclockwise by loosening the top screw two whole turns	
B							Ne m 2				
				no filter.			Ne 30 S	} no filter			
				"			m 2m				
							7c 1m	with filter.			

Aug 21-22

Julian Day.....[illegible]

Dome Temp. 65°F 76%

Focus

Dome Temp. 60°F 88°F

Transparency Conditions

very hazy

cloud
light haze

258

clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
						9 sec with G-12 filter			
			9.43		3-	G 4-cluster			
01 ^h 02 ^m W	+04°58'	3-4	6.53	(B)	3-3-3	G 4-cluster	400/50		
01 ^h 28 ^m W	+05°18'		7.15		3-3-3	"	400/50		
			7.81		3-	"	800/15	clouds!	
00 ^h 47 ^m E	+08°45'		6.1	A9s	17-17-17		200/68		
00 ^h 12 ^m E	+08°45'		"	"	17-17-17		200/65		
00 ^h 41 ^m W	+08°45'		6.1	A9s	17-17-17		200/65	thin cirrus from S.W.	
00 ^h 56 ^m W	"		"	"	17-17-17		200/65		
					8-8 w filter			cloud up because of clouds and dome dripping with	

259

* bailed Aug 21/22
** bailed Aug 18/19

Date 1972 August 28/29 Mon/Tu Observer B1 - R 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
36465	HD161096	17 38.5	+04 27	G-12	IIa-06*	13/5		19:32	19:35	A	+00°10'
36466	HD180163	19 10.4	+38 58	"	"	"		19:44	19:49	B	01:12E
36467	^{Cyg X-1} HD15226868	19 54.6	+34 56	"	"	20/3		19:52	00:20	C	03°35W
36468	UU Psc	00 09.8	+8 16	"	"	13/3		00:25	01:00	B	01°0'E
36469	"	"	"	"	"	"		01:02	01:27	A	00°35E
36469TI	calibration step wedge				IIa0B*	for plate	#3	36465-36474			
36470	UU Psc	00 09.8	+08°16	G-12	IIa0B*	13/3		01:29	02:03	B	00°12W
36471	"	"	"	"	"	"		02:04	03:15	C	01°16W
36472	HD24760	03 51.1	+39 43	"	"	13/5		03:21	03:25	A	02°17E
36473	HD24912	03 52.5	+35°30	"	"	"		03:30	03:38	B	00°06E
36474	HD26961	04 10.7	+50°03	"	"	13/9		03:43	03:59	C	02°05E
36475	HD14951	02 29.3	+10 09	"	IIa-06*	13/5		04:04	04:26	A	00°16W
36476	HD 21364	03 21.8	+9 23	"	"	"		04:29	04:34	B	02°39E
36476TI	calibration step wedge				IIa0B**	for plates		36475+	36476		

Dome Temp. 65°

Focus

Dome Temp. 55°

Dome Temp. 55°F 74%

Transparency Conditions Excellent - increasing haze 260

[illegible]

261 OPEN HOUSE TONIGHT
FOR IAU SYMPOSIUM
HONORING DR. HOGG

* Baked Aug 29

Date 1972 Aug 29/30 1972 Observer B/n - R: 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 Ecl
36477	HD 189178	19 53.7	+40° 06'	G-12	IIa0B*	13/5		20:33	20:48	A	0°53E
36478	HD 206844	21 39.9	+28° 20'	G-12	IIa0B*	13/3		20:53	21:37	B	1°53E
36479	HD 213534	22 26.9	+29 02	"	"	13/5		21:41	22:12	C	0°03E
36480	uu (Psc) HD 1061	00 09.8	+08° 16'	"	"	13/3		22:15	22:45	A	0°45E
36481	"	"	"	"	"	"		22:46	23:16	B	0°45E
36482	"	"	"	"	"	"		23:19	23:47	C	0°45E
36483	"	"	"	"	"	"		23:48	00:11	A	01°45E
36484	"	"	"	"	"	"		00:13	00:33	B	01°45E
36485	"	11	"	"	"	"		00:35	00:53	C	01°45E
36486	"	"	"	"	"	"	62°E	00:54	01:11	A	00°45E
3648671	calibration	steps	wedge		IIa0B*	for	plates 36477-36487				
36487	uu Psc HD 1061	00 09.8	+08° 16'	G-12	IIa0B*	13/3		01:12	01:42	B	00°15E
36488	"	"	"	"	"	"		01:43	02:05	C	00°15W
36489	"	"	"	"	"	"		02:06	02:25	A	00°15W
36490	"	"	"	"	"	"		02:26	02:43	B	02°45W
36491	"	"	"	"	"	"		02:44	03:07	C	01°11W

Dome Temp. *60°F 68%*

Focus

Dome Temp.

Transparency Conditions *good*

bank of thin cirrus from N. 01:20

262

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:48	A	0453E	+40° 20'		5.41	B5Vp?	17-17-17	Sp. Bw - Blu	80/34	BROKEN $\frac{1}{8}$ " missing	FINE
1:37	B	1450E	+28° 42'	4.6"	6.90	A9+A9	17-17-17	"	400/120		FINE
2:12	C	00403E	+29° 28'		6.28	A5	17-17-17	"	400/180		FINE
3:45	A	03414E	+08° 44'		6.15	A9s	17-17-17	"	400/120		FINE
3:16	B	00440E	"		"	"	17-17-17	"	400/120		FINE
3:47	C	00411E	"		"	"	17-17-17	"	400/120		FINE
4:11	A	01447E	"		"	"	17-17-17	"	400/120		FINE
5:33	B	01424E	"		"	"	17-17-17	"	400/120		FINE
6:53	C	01404E	"		"	"	17-17-17	"	400/120		FINE
8:11	A	00445E	"		"	"	17-17-17	"	400/120		FINE
9:27							180 sec.				
10:42	B	00415E	+08° 44'		6.15	A9s	17-17-17	"	400/120		FINE
12:05	C	00407W	"		"	"	17-17-17	"	400/120		FINE
13:25	A	00428W	"		"	"	17-17-17	"	400/120		FINE
14:43	B	00447W	"		"	"	17-17-17	"	400/120		FINE
15:07	C	01411W	"		"	"	17-17-17	"	400/120		FINE

PG 2

Date 1972 Aug 29/30 Tue/Wed Observer Bln-R Julian Day

[illegible]

Dome Temp. -

How Angle
End

Dome Temp. 56°H=82%

Transparency Conditions Clouds increasing
last 2 hours

254

[illegible]

985

* Added Aug 30

Wed-Thurs

Date 1972 AUGUST 30/31 ~~30/31~~ Observer Blm - Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36494	HD 161096	17 ^h 38 ^m .5	+4° 37'	G-12	Il-06*	13/5		19:28	19:30	A	00 07W
36495	HD 180163	19 10.4	+38 58	"	"	"		19:35	19:37	B	01 2E
36496	HD 189178	19 53.8	+40 06	"	"	"		19:41	19:47	C	01 50E
36497	HD 167771	18 11.6	-18 30	"	"	"	71°F	19 57	20:53	A	00 55W
36498	HD 213534	22 26.9	+29 02	"	"	"		20:58	21:22	B	02 40E
36499	HD 206874	21 39.9	+28 20	"	"	13/3		21:26	21:50	C	01 20E
36500	HD 187459	19 45.0	+33 11	"	"	13/5		21:53	22:15	A	02 40W
36500T1	Col step	wedge	180 sec		"						
36501	HD 190429B	19 59.8	+35 45	G12	"	13/5		22:20	23:16	B	0 33W
36502	HD 190429A	"	"	"	"	"		23:16	23:40	C	01 59W
36503	MM Psc	00 09.8	+8 16	"	"	13/3		23 45	00:01	A	01 53E
36504	"	"	"	"	"	"		00 06	00:22	B	
36505	"	"	"	"	"	"		00 25	00:39	C	01 4E
36506	"	"	"	"	"	"		00 42	00 56	A	00 57E
36507	"	"	"	"	"	"		00 57	01 11	B	
36508	"	"	"	"	"	"	67°F	01 13	01 29	C	00 25E

Dome Temp. 70°F H=46%

Focus

Dome Temp.

Transparency Conditions Excellent!!

255

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:30	A	00 07 W	+04° 39'	2	3.93	K2 III	50	Std. Vel.	40/28		FINE
9:37	R	01 16 E	+39 09	1-2	4.3	B5 V	25-25	B. Std. Vel.	40/15		(GUIDING) SL. STR
9:47	C	01 50 E	+40 21	"	5.35	B5 V _p	25-25	Sp. B's - Blu	40/17	PHC has loose clip	(SL. GUIDING) FINE
10:53	A	00 55 W	-18 24	2-3"	6.64	07 III	17-17-17	"	400/180	maybe fog; number broken off	FINE
11:22	B	02 49 E	+29 27	"	6.28	A5	17-17-17	"	200/90		(GUIDING) FINE
11:50	C	01 34 E	+28 43	1-2"	6.90	A9+A9	17-17-17	"	400/130		(GUIDING) FINE
12:15	A	00 48 W	+33 26	"	6.66	B0.5 I _b	17-17-17	"	400/195		STRONG FINE
12:16	B	01 33 W	+36 01	1-2"	6.69	0e	17-17-17	"	400/170	Seems fth. than 6.69 Very close w/ area dbl.	FINE
12:40	C	01 59 W	"	"	6.29	0e	17-17-17	"	400/165		(GUIDING) FINE
12:01	A	01 53 E	+8 43	2	6.15	A9s	17-17-17	"	400/130		FINE
12:22	B	"	"	"	"	"	17-17-17	"	400/125		FINE
12:37	C	01 14 E	"	"	"	"	17-17-17	"	400/130		FINE
12:56	A	00 57 E	"	1-2	"	"	17-17-17	"	400/130		FINE
1:11	B	"	"	1-2	"	"	17-17-17	"	400/130		FINE
1:29	C	00 25 E	"	"	"	"	17-17-17	"	400/130		FINE

257 Pg #2

* baked Aug 30

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

[illegible]

Transparency Conditions

Anson; we need ^(many) more plate scattering night Algo run

268

[illegible]

* bated Aug 30/31

Dome Temp.

Focus

Dome Temp.

Hour Angle
EndHour Angle
End

Dome Temp. 65 H 937₆

Transparency Conditions Very hazy.....

fog

270

Exposure Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9.48	A	00 12W	+3 01.	2-3"	4.0	B5	15	std vel	40/4-5		SL-STR
2.02	B	1 48W	+5 18	2-3	9.43	(12)	4-4-4	GH cl.	800/140		WEAK
01	C	2 50W	+5 20	2"	7.86	(B)	44-4	GH cl	400/60		FINE
										Sorry about lost plates last night. I don't know how 'did it. But other plates from that night are in other box I labelled.	—
										PLATES ARE ALL ACCOUNTED ← FOR, NOW.	
										Th	
										RE PLATES FOR WEEK END: 3 OF 4 EXPOSED BOXES ARE FULL OF UNUSED PLATES; 1 BOX (END OF OLD PLATE BATCH) PARTIALLY FULL; NEW PLATE BATCH SUITABLY LABELLED - DIFFERENT EMULSION NUMBERS WILL REQUIRE SEPARATE CALIBRATIONS (OLD: 240 C1D2; NEW: 240 C1F2)	

Date Sept 1/2 Fri-Sat Observer Bln-Tg Julian Day 2454910.5

[illegible]

Dome Temp. 68° H=90%

Focus

Dome Temp. 60 H=92%

Transparency Conditions Hazy & fog

Very Poor

272

ading Time
E.S.T.

P.H.

3:48

A

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Program

Exp. Mtr.

REMARKS

Quality

4 51 E

40 49

5-6

2.2-
3.47

B8V

25-25

Flare *

80/70

some cloud

WEAK

3:48

B

64 02 E

11

11

11

11

25-25

11

80/70

Cloud No Good

SL
1

WEAK

11

11

25

11

80/

Cloud No Good

* baked Aug 30/31

Dome Temp.
Focus
Dome Temp.

Hour	Angle	End
1	06W	
3	11W	
0	02E	
1	30W	
2	24E	
2	22E	
2	22E	
2	16E	
1	04E	
0	20E	

Dome Temp. 50°

Transparency Conditions *part 6, closely*

clear by 2:30

274

[illegible]

275

* baked Aug 30/31

Date Sept 4/5 Mon-Tues Observer Tn-W 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.
36533	B Oph	17 38.5	+4 37	G12	DaO-b*	13/5	62°F	19:31	19:35	A
36534	HD 167771	18 11.6	-18 30	"	"	"		19:44	20:44	B
36535	HDE 235679	21 55.0	54 01	"	"	18/3		20:58	23:30	C
36536	HD 213534	22 26.9	29° 02	"	DaO	13/5	59°F	00:06	00:36	B
36536 T1	Cal step wedge 180 sec				DaO-b*					
36536 T2	" "	"	"		DaO					
36537	HD 218154	23 00.6	+24 07	G12	"	13/5		00:43	01:37	C
36538	24 Ari	02 19.3	+10 09	"	"	"		01:43	02:05	A
36539	2 Tau	03 21.8	+9 23	"	"	"		02:07	02:15	B
36540	46 Per	03 52.5	+35 30	"	"	13/7		02:20	02:24	A
36541	HD 26961 6 Per	04 10.7	+50° 3'	"	"	9/7		02:36	02:50	B
36542	1 Cam	04 24.1	53 42	"	"	9/5		02:55	03 39	A
36543	HD 28363	04 23.3	+15 57	"	DaO-b*	"		03:45	05 03	C
36543 F	Focus Test			"	DaO	9	55°			B

Dome Temp. 48° H=7070

Transparency Conditions *Excellent*

276

checked out faint stars in C99 x-3 area. All normal brightness of 0^h

[illegible]

* bated Sept 4-5

Dome Temp. 6
Focus
Dome Temp. 6

Hour	Angle
	End
0	12 ⁰⁰ E
0	1 ⁰⁵ W
0	40W
0	25E
0	40W

* Baked Sept 4-5

Dome Temp. 5
Focus
Dome Temp. 5

Hour	Angle	End
3:52	W	
3:52	W	
0:07	E	
0:19	W	
1:00	W	
1:48	W	
2:31	W	
0:36	E	
0:06	E	

Dome Temp. 54° 11-956

high wind

280

[illegible]

281 2 Visitor tours 1st half

* baked Sept 1-5

Date Sept 9-10 Sat-Sun

Observer MC 4-TL

Julian Day

[illegible]

Dome Temp. ... 45° ... 90%

Transparency Conditions *Excellent*

282

[illegible]

* baked Sept 9-10

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

Hour	Angle	
End		
0201	E	+
0147	E	
0123		+
0104	W	+

Dome Temp. 60° $H=42^{\circ}$ Transparency Conditions $cloudy - excellent seeing$

284

Focus

Dome Temp. 54° $H=60^{\circ}$

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	B		<i>in in/out out</i>				8/8	<i>no filter</i>			GOOD
20 05	A	02 01 E	+30 08	1.2"	56-58	B9V	26-26	V389 Cyg	200/85		FINE
20 17	B	01 47 E	"	"	"	"	26-26	"	200/85		SL. STR
21 22	A	01 28 W	+62 23	2"	7.4	G8III	17.17-17	Hd Vis Bcn	400/235		FINE
22 06	B	00 04 W	+30 08	2"-3"	56-58	B9V	17-35	V389 Cyg	200/95	cloud	(GUIDING) FINE
	A	13 08	13 08	1.2"	56-58	B9V		V389 Cyg	400/	cloud gave up	

* baked Sept 7-10

Dome Temp. 6
Focus
Dome Temp. 6

[illegible]

Dome Temp. 63° H=80%Transparency Conditions *very hazy*

286

Focus

Dome Temp. 60 90%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:14 W	+5424	1.2	9.21	32	17/30	Bin. Search	800/60	(cloud too) overdevelop plate	VERY WK
with	36574					15" m @ 64° in m WP-2			
Sept 12/72. Tilted the I-12 grating counterclockwise by loosening by 2 whole turns the top screws. If the G-12 spectrum is still reasonably well centered we will leave it like this so that for the G-16 grating we will not need to have change the tilt. (See Aug 25/72).									
in in/out out	No filter	8/8						Position of spectrum is OK	
	No filter	Fe 10 ⁵							
	"	He 2 ^m							
	"	He 2 ^m							
	"	Fe 3 ⁵							
	"	Fe 3 ⁵							

287

* Baked 9-10 Sept.
xx 11 14 11

Date SEPT 14-15 Thu-Fri. Observer WEST-Ri. Julian Day 2,441,575.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36575	HD 187691	19 ^h 46 ^m 2	+10° 10'	G-12	IIaOB ^x	13/1.5	65°F	19 ^h 13 ^m	19: 46	A
36576	ADS 14893	21 ^h 16.5	+09° 55'	G-12	IIaOB	13/1.5		19: 55	21: 44	B
36577	ADS 14893	21 ^h 16.5	+09° 55'	G-12	IIaOB	13/1.5		21: 45	23: 19	C
36578	HD 222368	23 ^h 34 ^m 9	+05° 05'	G-12	IIaOB	13/1.5		23: 25	23: 35	A
36579	ADS 14893	21 ^h 16.5	+09° 55'	G-12	IIaOB	13/1.5		23: 45	01: 13	B
36579+1	calibration slip wedge				IIaOB ^x	for plates		36575-	36581	
36580	HD 222368	23 ^h 34.9	+05° 05'	G-12	IIaOB ^x	13/1.5		01: 19	01: 33	C
36581	BD+27° 943	05 ^h 53.8	+27° 16'	G-12	IIaOB ^x	13/1.5		01: 52	04: 02	A
36581+1	calibration slip wedge				IIaOB ^x	for plates		36582-	36585	
36582	1 GEM	05 ^h 58.0	+23° 16'	G-12	IIaOB ^x	13/1.5	54°F	04: 10	04: 25	B
36583	1 GEM	05 58.0	+23° 16'	G-12	IIaOB ^x	13/1.5		04: 26	04: 41	C
36584	β GEM	07 39.3	+28° 07'	G-12	IIaOB ^x	13/1.5		04: 47	04: 51	A
36585	β GEM	07 39.3	+28° 07'	G-12	IIaOB ^x	13/1.5		04: 54	04: 56	C
36585F1	focus test and out/in			G-12	IIaOB ^x	13	53°F			B

Dome Temp. 54°F H 57%

Transparency Conditions *good seeing poor*

280

Focus

Dome Temp. 45°F H 73%

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:46	A	00°44'E	+10°26'	4'	5.2	df8	17-17-17	2nd 2nd Prog.	200/130		V.S.C. WK
01:44	B	00°418'E	+10°18'		6.75	F7V	17-17-17	"	400/260		FINE
03:19	C	01°418'W	+10°18'	"	6.75	F2V	17-17-17	"	400/260		SL. WK
03:35	A	00°38'E	+05°33'		4.3	F8V	17-17-17	"	200/130		FINE
01:13	B	03°13'W	+10°18'		6.75	F7V	17-17-17	"	400/260		SL. WK
05:01							180 sec.				
01:33	C	01°15'W	+05°33'		4.3	F8V	17-17-17	"	200/130		FINE
04:02	A	02°35'W	+27°20'	2.3	6.8	K0W	17-17-17	"	400/320		WEAK
06:58							180 sec.				
04:05	B	02°418'E	+23°20'	3	4.5	K0	17-17-17	"	80/64		V.S.C. WK
04:41	C	02°403'E	+23°20'		4.5	K0	17-17-17	"	80/64		FINE
05:01	A	03°34'E	+28°09'		1.2	K0W	26-26		40/32		FINE
05:56	C	03°28'E	+28°09'		1.2	K0W	26-26		40/32		FINE
	B						8-8 no filter				CENTRE COMP ONLY

Bated Sep 9 14

Date SEPT 15-16 Fri-Sat Observer WEST-Ri Julian Day 244,576.5-576.9

[illegible]

Dome Temp. 54°F 74%

Transparency Conditions clear with clouds in W. W. and light wind 290.

Focus

Dome Temp. 50°F 88°F

lazy toward morning

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01402 E	+10° 25'	2	5.2	dF8	17-17-17	West Pros.	200/130	some clouds	
00435 E	+10° 19'		6.7	F7V	17-17-17	"	400/260	" "	
01402 W	+10° 19'	3	6.7	F7V	17-17-17	"	400/260	cleared up at 21:00	
0055 E	+05° 34'		4.3	F8V	17-17-17	"	200/130		
03423 W	+10° 18'		6.7	F7V	17-17-17	"	400/260		
01423 W	+05° 34'		4.3	F8V	17-17-17	"	200/130		
01423 W	+08° 43'	3	6.15	A9s	17-17-17	180 sec. Bl - Spot-Bi.	400/120		
03421 E	+23° 20'		4.5	K0I	17-17-17	West Pros	200/160	clouds	
03402 E	+23° 20'		4.5	K0I	17-17-17	"	200/160		
01424 E	+27° 21'		6.8	K0III	17-17-17	"	400/320		
03400 E	+28° 10'		1.2	K0III	26-26	"	40/32		

Balred Sept. 14

Observer Hu-Ri

Julian Day

[illegible]

Dome Temp. 59

FOCUS

Dome Temp.

Hour Angle
End

20' 10w)

Dome Temp. 59°F 90%

Transparency Conditions *Kazuo*

292

Focus

Dome Temp.

[illegible]

x Banded Sept 14

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.

294

[illegible]

295

~ Baked Sept 16

Ri

Date Tues Sep 19-20 1972 Observer Had - Hn 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
36600.	β Lyr	¹⁹⁷⁰ 18 49.0	33 20	G-16	IIaF	13/4		19 10	19 16	A	0°20'
36601	"	"	"	"	"	"		19 17	19 29	B	0°20'
36602	γ Aql	¹⁹⁷⁰ 19 44.8	+10 32	"	"	"		19 41	19 57	C	1°55'
36603	"	"	"	"	"	"		19 59	20 05	A	0°02'E
36604	χ Cyg	¹⁹⁷⁰ 20 21.1	+40 09	"	"	"	65°F	20 08	20 10	B	0°32'
36605	"	"	"	"	"	"		20 12	20 18	C	0°25'
36606	HD 196929	20 35.3	+03° 05'	G-12	IIa08	13/5		20 32	22 44	A	01°45'W
36607	HD 212212	22 17.5	+40 10	"	"	"		22 49	00:59	B	00°16'W
36608	δ Cas	¹⁹⁷⁰ 0 54.9	¹⁹⁷⁰ +60 53	G-16	IIaF	13/4		01:10	01:14	C	00°02'E
36609	^{HD 70516} ϕ Per	¹⁹⁷⁰ 01 41.7	¹⁹⁷⁰ +50 33	G-16	IIaF	13/4		01:17	01:35	A	00°26'E
36610	ϕ Per	"	"	G-12	IIa0B	13/4	56°F	01:44	01:49	B	00°52'E
36610T1	Calibration	chip wedge			IIa0B	for plates		36606;	36607, 36610		36612
36611	HD 7864	01 13.2	+39 25	G-12	IIa0B	13/5		01 53	04:37	C	03°05'W
36612	HD 28446	04 24.1	+53° 42'	G-12	IIa0B	13/5		04:47	05:12	A	00°30'W
36612F1	focused	at end of row		G-12	IIa0B	13	52°F			B	

Dome Temp. 54°F 65%

Transparency Conditions Excellent

296

Focus

Dome Temp. 43°F 73%

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19 16	A	0402W	+33°24'	2"	3.4	Bpe	no filter 3	Test	20/30		
4 29	B	0419W	+33°24'	2"	"	"	3	og	20/52	broken 1/2" missing	
9 57	C	0105E	+16 28	2"	2.7	K3II	3	G16	20/40		
0 05	A	002E	+10 28	2"			3	hd.	20/20		
20 10	B	031E	+40 14	2"	2.2	F-8Ib	3		20/20		
20 18	C	025E	+40 14	2"	"	"	3		20/40		
22 44	A	0145W	+03 25	4"	7.94	K0III	17-17-17	Ha-Vis Bin	400/225		
0 59	B	02416W	+40 36		7.79	K2III	17-17-17	"	400/225	HaOB in middle of	
1:14	C	00401E	+60°37'		2.13	B0Ipe	no filter 3		20/50	exposed Box #3	
1:35	A	00426E	+50°36'		4.06	B0pe	no filter 3		20/50	HaFw exposed Box #1	
1:49	B	00415E	"		"	"	26-26		20/10		
607, 36610		-36612					180 sec				
4:37	C	03405W	+39°40'	5	8.26	K0III	17-17-17	Ha vis Bin	400/225		
5:12	A	00421W	+53°52'		5.22	B0II	17-17-12	Bln-Spec/Bin	200/100		
							8-8 no filter				

16 H ← * baked Sept 20 (test plates kept dry)
24 H ← ** baked Sept 16

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

Hour Angle	End
00 03 W	
00 35 W	
00 16 E	
00 19 E	
00 08 E	
00 03 W	
00 15 W	
00 55 E	
00 07 E	

Dome Temp. 48° H= 9376

Transparency Conditions *very good - thin cirrus*
very bad seeing

298.

[illegible]

Dome Temp. 92° H = 75%

Transparency Conditions

Transparency Conditions ³⁰⁰Partly cloudy..... but very clear
High Winds - fast Cumulus clouds N.W.

ie very bad

[illegible]

* baked Sept 21-22
** baked Sept 20

Date Sept 22/23 Fri-Sat Observer To-Wat Julian Day _____

[illegible]

Dome Temp. 40° H = 90%

Transparency Conditions *Excellent*

302

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19:14	A	00 24W	-9 01	3-4	5.08	F3 IV	17-17-17	Wide Vis Bin	200/120		SL-STR
2:17	B	02 12W	+39 46	2-3	2.10	Em	17-17-17	Em object	800/90		FINE
2:21	C	03 46W	+38 47	5	0	A0 V	25-25	Em std	40/15		VERY STRONG
2:52	B	01 43W	+47 27	2-3	7.51	B1 IV	25-25	Wide Vis Bin	200/97	} H=7970' outside plate tests	VERY STRONG
3:02	C				"	"	25-25	"	200/45		WEAK FE SL-STR
3:11	A	02 03W			"	"	25-25	"	200/72		STRONG
4:46	C	00 02E	49 14	2"	7.08	K7 III	17-17-17	"	400/360		WEAK FE FINE
3:29	A	00 09W	48 01	1-3"	8.5	G5	17-17-17	sp Bin	800/375		FINE
4:21	B	01 44W	37 14	1-2"	7.1	K3 IV	17-17-17	Wide Vis Bin	400/320		FINE
4:51	A	00 28W	-7 37	2"-3"	4.4	K6 V	17-17-17	LATE TYPE STAR	40/28		FINE
5:26	C	00 59W ^x	14. 43	2"-3"	5.0?	K3 J6	25-25	"	200/80	much fainter than 514	SL. WK
										PLATES ALL FOGGED	
										~ 1" AT RED END	

* baled Sept 16
** baled Sept 27-28

Date 1972 SEPT 27/28 WED/THUR Observer B/n-Cb/Tn-LR Julian Day 19720927.5

[illegible]

Dome Temp. 37° H=877

bad seeing though
saw 3 meteors tonight

304

[illegible]

* baked Sept 27-28

Dome Temp. 5
Focus _____
Dome Temp. _____

[illegible]

Transparency Conditions Excellent & then have soon

308

[illegible]

Dome Temp. 39°F H=80%

Focus

Dome Temp.

Transparency Conditions *Excellent*

300

Very S/low Sat. from S $\rightarrow$ N 20 min from Peg to Big Dipper
Good meteors again

[illegible]

* baled Sept 27/28

Dome Temp. ...

Focus

Dome Temp. —

Hour Angle
End

00 45E-

310

[illegible]

311

* Baked Sept 20-21
 ** Baked Sept 22-23
 *** Baked Sept 27-28

Date 1972 Oct 4/5 Wed/Thurs. Observer Bln-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.	How Angle End
36646	Algol	03 01.7	+40° 37'	G-12	IIa-06 [*]	9/1.9		19:06	19:32	A	06° 56'E
36647	"	03 01.7	+40° 37'	"	IIa-08 [*]	"		19:33	20:33	B	03° 54'E
36647T1	calibration step wedge				for plate 36646 and 36647			IIa-08 [*]			
36647T2	calibration step wedge				for plate 36648 and 36649			IIa-08 ^{**}			
36648	Algol	03 01.7	+40° 37'	G-12	IIa-08 ^{**}	9/1.9		23:49	00:08	C	00° 22'E
36649	"	"	"	"	IIa-08 ^{***}	"	58°F	00:10	00:20	A	00° 05'E
36650	"	"	"	"	IIa-08 ^{***}	"		00:21	00:45	B	01° 45'E
36650T1	calibration step wedge				for plate 36650-66			IIa-08 ^{***}			
36651	Algol	03 01.7	+40° 37'	G-12	IIa-08 ^{***}	9/1.5		00:46	01:00	C	01° 29'E
36652	"	"	"	"	"	9/1.7		01:02	01:19	A	01° 10'E
36653	"	"	"	"	"	9/1.9		01:20	01:29	B	01° 55'E
36654	"	"	"	"	"	"		01:30	01:37	C	00° 52'E
36655	"	"	"	"	"	"		01:38	01:51	A	00° 33'E ^x
36656	"	"	"	"	"	"		01:52	02:12	B	00° 16'E
36657	"	"	"	"	"	"		02:13	02:19	C	00° 09'E
36658	"	"	"	"	"	"		02:20	02:26	A	00° 01'E

Dome Temp. $52^{\circ} \text{H} = 86\%$

Transparency Conditions *scattered clouds*

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:32	A	06 56 E	$+40^{\circ} 56'$	3	2.2 3.32	B8V	25-25	Sp. Bih-Bih	40/50		
1:33	B	03 54 E	"	3	"	"	25-25	"	40/45	clouds	
							180 sec.				
							180 sec.				
1:08	C	02 20 E	$+40^{\circ} 55'$	2	2.2 3.32	B8V	25-25	Sp. Bih-Bih	40/33		
1:20	A	02 08 E	"		"	"	25-25	"	40/33		
1:45	B	01 44 E	"		"	"	25-25	"	40/25	clouds at 100:30	
							180 sec.	"			
1:00	C	01 29 E	"		2.2 3.12	B8V	25-25	"	80/28	clouds (Mid-Eclipse)	
1:19	A	01 10 E	"		"	"	25-25	"	80/34		
1:29	B	01 00 E	"		"	"	25-25	"	80/50		
1:37	C	00 52 E	"		"	"	25-25	"	80/52		
1:51	A	00 33 E ^x	"		"	"	25-25	"	80/50		
2:12	B	00 16 E	"	2	"	"	25-25	"	80/51		
2:19	C	00 09 E	"		"	"	25-25	"	80/51		
2:26	A	00 01 E	"		"	"	25-25	"	80/50		

xxx Baked Sept 27-28

Dome Temp. —

Focus

Dome Temp. 64

Hour Angle
End

Dome Temp. 49° H=92%

Transparency Conditions

Very Poor - Good

Closed because of high humidity.

Bessie got her nose wet

314

[illegible]

215

Date 1972 Oct 5/6 Thu Fri. Observer Blm-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.	How Angle Est.
36669	Algol	03 01.7	+40° 37	G-12	Ilao	6/1.9	c	21:59	22:04	A	01°22'E
36670	"	"	"	"	"	"		22:05	22:10	B	01°41'E
36671	"	"	"	"	"	"		22:13	22:18	C	01°01'E
36672	"	"	"	"	"	4/1.9		22:20	22:27	A	03°59'E
36673	"	"	"	"	"	"		22:28	22:36	B	03°50'E
36674	"	"	"	"	"	"		22:37	22:46	C	03°40'E
36675	"	"	"	"	"	"		22:47	22:55	A	01°30'E
36676	"	"	"	"	"	"		22:56	23:04	B	03°01'E
36677	"	"	"	"	"	"		23:05	23:12	C	03°41'E
36678	"	"	"	"	"	"	60°F	23:15	23:23	A	03°02'E
36679	"	"	"	"	"	"		23:25	23:35	B	02°50'E
36679T1	calibration strip	wedge for plates 36669-36679				Ilao					
36680	Algol	03 01.7	+40° 37	G-12	Ilao	4/1.9		23:37	23:55	C	02°30'E
36681	"	"	"	"	"	"		00:46	00:53	A	01°30'E
36682	"	"	"	"	"	"		00:54	01:00	B	01°35'E
36683	"	"	"	"	"	"	60°F	01:02	01:08	C	01°17'E

Dome Temp. 3

Focus 2.0

Dome Temp.

Dome Temp. 52°F 90%

Focus 20-R

Dome Temp.

Transparency Conditions

316

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:04	A	04°22E	+40°55'	2	2.2 3.12	B8V	35-35	Sp. B _w -B _{1w}	40/32		
2:10	B	04° ¹⁶ 14E	"		"	"	35-35	"	40/32		
2:18	C	04°08E	"		"	"	35-35	"	40/32		
2:24	A	03°59E	"		"	"	45-45	"	40/32		
2:36	B	03°50E	"	2	"	"	45-45	"	40/32		
2:46	C	03°40E	"	1"	"	"	45-45	"	40/32		
2:55	A	03°30E	"	"	"	"	45-45	"	40/32		
3:04	B	03°21E	"	"	"	"	45-45	"	40/32		
3:12	C	03°14E	"	"	"	"	45-45	"	40/32		
3:23	A	03°02E	"	"	"	"	50-60	"	40/32		
3:35	B	02°50E	"	"	"	"	60-60	"	40/32		
							180 dec				
3:55	C	02°30E	"	1	2.2 3.12	B8V	60-60	"	40/11	clouds	
4:03	A	01°32E	"		"	"	60-60	"	40/32		
4:00	B	01°25E	"		"	"	60-60	"	40/32		
4:09	C	01°17E	"	1	"	"	60-60	"	40/32		

Date Fri 086 1972 Cret Observer Bl-Ri Julian Day 175

Dome Temp. —
 Focus 20
 Dome Temp. 50

[illegible]

Dome Temp. 50° $14 = 95\%$

Transparency Conditions

Great between
-scattered clouds.
Quit because of humidity
and approaching cloud bank.

318

[illegible]

* Baked OAL
(kept in plastic box)

Observer... LR-R:

Julian Day

[illegible]

Focus 20 - K
Dome Temp. 35°F 90%

Transparency Conditions *lazy*

320

[illegible]

* Bakul 0.96

Dome Temp.
Focus 20
Dome Temp.

[illegible]

80%

322

[illegible]

Baked on 6 (16 hr)

Date Mon-Tues Oct 9-10, 1972 Observer Hu-Ri Julian Day 2443880.5

[illegible]

Dome Temp. 27° F 63%

Transparency Conditions *good, scattered clouds, first half*

324

[illegible]

* Baked 0916 16 hr.
xx " 0910 "

xx n 09/0 "

Date Tues Oct 10 - 9/72

Observer.....^{Mr}_{Re}

Julian Day

[illegible]

Dome Temp. 30 °F

328

[illegible]

Dome Temp. 38° H= 90%

Transparency Conditions scattered clouds & windy

Sudden rain

[illegible]

* baked Oct 10

Dome Temp. 31°
Focus 20-
Dome Temp. 23°

[illegible]

Dome Temp. 23° $14 = 75^{\circ}$

Transparency Conditions *Excellent (some cloud)*

330

[illegible]

* Oct 10 Baked

Dome Temp. -29°
Focus 20
Dome Temp. 22

[illegible]

Dome Temp. 22 90%

Transparency Conditions clear - Aurora all night

332

PLEASE GET A FOCUS
PLATE

[illegible]

Ast 100 class, looked at m2

Dome Temp. 33
Focus 70 - R
Dome Temp. 20

Dome Temp. - 20

[illegible]

Dome Temp. 20° H = 8170

334

[illegible]

29°F H: 8370 inside

336

Dome Temp. 40° H: 4570 outside

Transparency Conditions *Excellent but haze soon*
some thin cloud

Focus 75-R

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18:14	A	0 42W	39 09	1"	4.3	B5	45	R std vel	40/12		SL. STR
18:26	C	0 21W	10 38	1.2"	4.15	K3 II	20-25	std vel	40/20		FINE
20:03	C	0 00	28 43	1"	6.9	A9-A9	15-15-15	Sp. in - Bl	200/70		FINE
20:03	A	1 47W	36 28	1"	4.42	B5V	15-15-15	"	200/70	some cloud	STRONG
21:14	C	1 58W	41 07	"	3.96	A0V	15-15-15	"	200/70		SL. STR
23:34	C	1 44W	29 26	1"	6.28	A5	17-17-17	Sp. in - Bl	400/200		(GUIDING) FINE
3:16	A	0 11W	24 11	1.2"	5.18	H1 II	^{no filter} 3-3	Cap En	200/150		FINE
3:46	B	0 43W	"	"	5.18	K1 II	^{no filter} 3--	"	200/032	cloud	VERY WEAK
							23 sec / 72	9.0 m @ 68°		in new p-2	

Date _____

616 in

Observer

Julian Day

[illegible]

Dome Temp.

Focus

Dome Temp.

Hour Angle

1. **E**

Dome Temp.

Focus 75-R

Dome Temp.

Transparency Conditions

[illegible]

* baked Oct 20-22

Dome Temp. ... 32
Focus 75
Dome Temp.

Hour	Angle	Eod
0 ^h	45° W	+
0 ^h	40° W	+
0 ^h	35° W	+
0 ^h	28° W	+
0 ^h	20° W	+
0 ^h	15° W	+
0 ^h	10° W	+

Dome Temp.

Transparency Conditions

340

[illegible]

Baked on 21-22

26

Date... 26/7 OCT 72

Observer LR RL/Hu-Ri Julian Day 2454910.5[illegible]

Dome Temp. 35°F 95%

342

[illegible]

* booked Oct 26

Observer Hu-Tn /

Julian Day.

Dome Temp. _____
Focus _____
Dome Temp. _____

Hour Angle
End

00 42E
00 57W
↑
10.10
10.50

Dome Temp. 36° 93%

Transparency Conditions *Haze, the cloud*.....

344

[illegible]

Band 00 26

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

Hour	Angle	End
2h	32° W	
1h	35° W	
0h	25° W	
9.0		

Dome Temp. 22°F 80%

346

[illegible]

Boxed 0226

Dome Temp. ...
Focus
Dome Temp.

[illegible]

Dome Temp. 28. 80 %

Transparency Conditions

3.48

[illegible]

349

B = 0926

Date Mon - Tues Nov 20-21, 1972 Observer Hu-Ri / Bu-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
36753	HD 198624	20 46.5	+49° 45'	G-12	IIcOB	13/3	35°F	17:40	18:40	A	0° 35' W
36754	HD 11926	01 52.0	+40 54	"	"	"		22:41	23:51	B	1° 32' W
36755	HD 11291	01 45.8	+50 18	"	"	"		23:53	00:03	A	0° 55' W
36755T1	calib step wedge for plates 36754-55				IIcOB					9mm	2 MW-26
36756	UU Psc	00 09.8	+8 16	"	IIcO	"		00:06	00:47	B	0° 18' W
36757	63 And	02 14.4	+49 42	"	"	9/5		00:52	01:20	C	0° 12' W
36758	X Per	03 49.1	+30° 45'	"	"	13/5		01:28	02:00	A	0° 50' W
36759	C Per	03 51.2	+39° 43'	"	"	9/5		02:03	02:06	B	0° 12' W
36760	ξ Per	03 52.5	+35 30	"	"	9/5		02:09	02:15	C	0° 12' W
36761	ξ Tau	03 21.8	+09° 23"	"	"	9/5		02:17	02:20	A	1° 10' W
36762	HD 28052 71 Tau	04 20.6	+15' 23"	"	"	9/5		02:27	02:43	B	1° 38' W
36763	HD 28363	04 23.5	+15° 57'	"	"	9/3		02:47	04:47	C	1° 02' W
36763T1	cal step wedge for plates 36756-36767									9mm in.	4 WP-26
36764	HD 74280	08 38.0	+3 45	"	"	9/5		04:50	04:56	A	0° 02' E
36765	HD 77309	08 56.7	+54 41	"	"	"		05:01	05:35	B	0° 10' W
36766	HD 73262	08 32.7	+6 03	"	"	"		05:39	05:57	C	0° 59' W

Dome Temp. $27^{\circ}\text{F} - 76\%$ Focus 75-R

Dome Temp.

Transparency Conditions good
clouds from 18:30 - 22:30

350

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9:40	A	01435W	+50°05'	3"	8.13	MIII	15-15-15	Md-Vii Bw.	500/50	overexposed 12 min. clouds BROKEN	BROKEN SL WEAK
9:51	B	01432W	+41°20'	"	8.22	G6V	15-15-15	"	800/200	clouds again by 23:00 clear 00:00	FINE
10:03	"	01455W	+50°14'		5.62	B9III	15-15-15	"	200/50		FINE
10:47	3	MWP-2 @ 68°F Nov 21 1972 180 sec									
10:47	3	04418W	+08°45'	6-8	6.15	A9s	17-17-17	Sp. Bin - Bln	200/65		FINE
10:50	"	02448W	+50°05'	4-6	5.44	ApSi	20-20-20	"	200/100		FINE
10:50	"	01450W	+31°00'		6.0- 6.6	Ope	17-17-17	X-ray Source	400/180		FINE
10:50	"	01454W	+40°00'		2.71	B0ST	20-40	Sp Bw - Bln	40/15		SL. STR.
10:55	"	02402W	+35°47'		4.04	OZ	30-30	"	40/15		FINE
10:55	"	02442W	+09°04'		3.66	B8p	30-30	"	40/18		FINE
10:55	"	02038W	+15°40'		4.63	F0II	30-30	"	40/25		FINE
10:57	"	0402W	+16°11'		7.14	F8	20-20-20	"	40/15/1		FINE
10:57	"	MWP-2 @ 68°F Nov 21 1972 180 sec.									
10:57	"	0002E	+03°34'	6-10	4.10	B3V	20-40	"	40/16		FINE
10:57	"	00416W	+54°25'	"	5.64	A2u	20-20-20	"	200/100		FINE
10:57	"	00459W	+05°52'		4.14	A0V	30-30	"	200/100		FINE

Date Tues. Nov 21 1922 (Cont) Observer Bln-Ri Julian Day 2455111.5

[illegible]

Dome Temp.

Transparency Conditions Excellent - Clouds coming @ dawn. 352

[illegible]

* boxed Nov 20/21

Dome Temp. 41
Focus 2
Dome Temp.

Hour	Angle
End	

Dome Temp. 19° H=68%

Focus 75-12

Dome Temp.

Transparency Conditions good but some clouds snow

35.4

[illegible]

~~22~~
355

[illegible]

356

Ending Time
EST.

357

358

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