

Telescope: 61"

Camera #1

IRIS = 323

Frame prefix #: FR86I

Day of Week: Fri/Sat

RA offset:

Focus: Humdty:

Sheet #:

Observers: Schultz
Tyler

Date MST/UT: June 20/21

Dec offset:

Tailpiece: 377

Balance: 802 Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
✓265	DARXLI	N/A							Focus 4000 Filled dewar 1:25 AM.
✓266									
✓267	Flat Field	0.5	R	17300					
✓268				17400					
✓269		0.8	✓	19500					
✓270				19400					
✓271		3.5	B	17900					
✓272				17700					
✓273		0.5	I	17000					
✓274									
✓275		12	6185	17386					
✓276				17357					
✓277		28	6250	18600					
✓278				18470					
✓279	Halley	10	R	4000 1500	3:51:23			3:50 ^m	

Telescope: 61"

Frame prefix #: FR86I Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #:

Observers: Schultz, KO
Tyler, Schneider

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
280		45	R		3:55:10	10:23:29	-5:18:58	3:54	
280		45	R	12200 5200	3:59:16			4 ^h 01 ^m	good image
281		120			9:02:00	10:30:47	-5:18:53	4 ^h 4 ^m	Sat.
281		45	R	15000 6000	4:05:31	10:20:48	-5:18:52	4 ^h 07 ^m	good image
282			V	16700 8500	68:15		-5:18:50	4 ^h 10 ^m	
283			V	19900 1000	10:22		-5:18:48	4 ^h 09 ^m	
284			B		12:47		-5:18:46	4 ^h 11 ^m	bad
284			B		15:10		-5:18:45	4 ^h 10 ^m	
284			B		17:34		-5:18:43	4 ^h 19 ^m	
284			R		20:27		-5:18:40	4 ^h 22 ^m	
284	Danz	1	N/A						
285	Danz	1	N/A	685					

NOT photometric everywhere
clouds everywhere

Telescope:

Frame prefix #: FR86I Day of Week: Fri/Sat
 Observers: FINK, D'SANTIS Date MST/UT: 05/06 Sep

RA offset:
 Dec offset:

Focus: 4025
 Tailpiece: 17°
 Balance:

Humdty:
 Temp O/I:

Sheet #: (1)

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
001	Wilson	10	R	6400/3200	8:14:06	34:19:34.5	+19:15:30	2:32W	seeing ~ 2.4 parts per second
002	"	60	"	20000	19:48			:38	
003		180	"					:47	Sec Z = 1.31 (end)
004		600	"					:53	1.32 (start)
005	Field 1	1200	"	1/10000		1h 30m 00.23	+10° (9:59:56.7)	-0:54E	1.11 start; 1.09 end
6	2	1	"			1:29:30.02	10:00:00	-:28E	
7	3	"	"			1:29:00	"	-:	
8	Field 1	"	"			1:30:00	"	0h 18m W	AM 1.08 HA 18m W
9	" 2	"	"			1:29:30			
10	" 3	"	"			1:29:00			AM 1.13 HA 1:09 W
11	Dual		"	3200					
12	Dual		"	3200					
13	Coolest	1-25	"	18000		0:28:22.30	+30 19 32	2h	1.22
14	44113		"					2h 46	AM 1.23 (389, 423)

filled down 44113
 about 1:15 AM; re-filled

Telescope: 61"

Frame prefix #: FR86I

Day of Week: Sat/Sun

RA offset:

Focus:

Humdty: 41

Sheet #: 2

Observers: FINK, DiSANTIS

Date MST/UT: 06/07 Sep.

Dec offset:

Tailpiece:

Temp O/I: 60/63

Balance:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start -MST UT	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
015	BS 7037	9:15	9180	7900/320		19:19:04	-9:19:24	0h 40m W	AM 1.38
16	"	25	1940	1900/100					
17	"	0:25	860	2100				46 W	
18	"	"	"	2050	5:08			44 W	AM 1.39
19	"	4:00	620	2200					W
20	"	"	"	2380	5:09			0h 52m W	1.39
21	"	0.4	6185	19500	5:14			0h 56m W	1.40
22	"	0.4	"	2600					1.40
23	"	3	630	13300	5:21			1:04	1.42 <i>rebut</i>
24	"	3	"	1700				1:05	
25	"	3	700	16800				1:10	1.43
26	"	"	"	14600	5:27			1:09	1.43
27	"	0.4	5480	2300	5:55:25			1:17	1.45
28	"	0.4	"	2400	5:40			1:22	1.46 <i>re-center telescope</i>
29	"	0.2	5139	1300	5:42:04			1:24	1.46

W
 10 plates
 shifted

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: (3)

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
30	B37637	0.25	5131	1500	5:41			1:27	1.47 ^{A7}
31	"	1.0	4765	1750	5:10			1:32	1.49
32	"	"	"	1900	5:51:42			1:33	"
33	"	3.0	4060	1900	5:10			1:31	1.10
34	"	"	"	1900	5:57:10			1:39	1.51
35	dark								600x10
36	"								3300 4x12.5
37	B58131	2.0	9180	1400	6:24:54	23 30 50.8	-0409 18.3	1:29'E	1.34 ^{A4}
38	"	"	"		26:10			1:23	"
39	"	0.7	800	1700	27:49			1:21	1.33
40	"	"	"	1900	28:19			1:21	"
41	"	1.0	620	1200	6:30:13			1:18	"
42	"	"	"	1470					
43	"	0.5	6185	1900	6:34:06			1:15G	1.32
44	"	"	"	22300	35:19			1:12	"

Telescope:

Frame prefix #: FR86I

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 4

Observers: FINK, DiSANTO

Date MST/UT:

Dec offset:

Tailpiece:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)	
045	DS 8931	5.0	G30	9900	6:39:09			1:10E	1.31	
46	"	5.0	"	1800						
47	"	5.0	tiltu	1540	6:43:19			1:20E	1.30	
48	"	4	"		44:51			1:25	"	
49	traced Field 4	1200	R		6:59:07	23:10:10	+10:20:20	24E	1.09	rings
50	traced Field 5	1200	R	1080	7:22:29	23:10:30	"	03W	1.08	traced
51	traced 6	"	"	11000	45:02	23 01 00.00 01 00.37	0.0 0.8	0 26 W	1.09	15.0309 0.0012
52	good rings	7	"		8:28:06	23 01 30.00 139	1.0 2.7	1:05W	1.12	rings 10x 5 9 rings traced: 15.0326 Bias = 0.020 ✓
53	traced 4	"	"		9:10:18	23:10:03 05.37		1:45W	1.20	15.0321 0.0012
54	traced 5	"	"		9:27:30	23:10 34.0 59.23		2:07W	1.25	15.0326 0.0012
55	traced 6	"	"		9:38:04	23:14 05.4 11.9		2:32W	1.34	15.0328 Bias = 0.0012
56	traced 7	"	"	13600	10:16:17	23 01 30.00 55.45		2:18W	1.45	15.0318 - 0.0020
57	traced 1	"	"	11700	10:47:22	1 30.10 1.6	10:10 0	2:10	1.11	white drawn 15.0327 10.0006
58	good rings 2	"	"	11900	11:15:00	1 29 30.00 0.02	"	1:24	1.16	"
59	good rings 3	"	"	1400	10:37:45	1 29 0.00 0.5	11 5.1	1:51	1.21	"

total: 2.9 = 0.002W
1200

15.0309
0.02 2.013 = 15.0

360 x 360 = 129600
15.0411
0.0079
0.387

1.26
09.09 = 86169.09

Balance number to ~ 300

Telescope: 61"

Frame prefix #: FR86 I

Day of Week: Su/Ma

RA offset: -

Focus: 4020

Humdty: 65

Sheet #: 6

Observers: DiSant & Fil

Date MST/UT:

Dec offset:

Tailpiece: 17

Balance: 570

Temp O/I: 70/18

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
065	Field 8	1200	R	10200/360	01:05:16	23 33 00.0	-40 21 32	0 41 E	1.02 -15.0301 -0.002
066	9	11	"	1200	29:15	23 33 30.0	"	19E	1.01 -15.0301 -0.000
067	10	11	"	1100	54:20	23 32 30	11 31.3	07W	1.01 " "
068	11	11	"	11500	2:18:41	23 33.0	-40 21 58	0 31 W	1.02 -15.0360 +0.0004
069	12	11	"	1800	43:01	1 30	"	14W	1.03 <u>cloud</u> 15.0389 +0.0007
070	FF	1000	"	1460	8:44:19	21 38:01	"	2:09E	1.19 Test for transmittance in FF
071	dark FF	0.6	"	17500	9:14				} test - transmittance
072	dark	11	"	17200	9:14:15				
073	11	11	"	18600	11:15:18				
074	Dark	11	"	3431					Std dev. 12.1

9:120 - 1000 - 300