

FR248P

Telescope: 61"

Photobly Used 5, 10, 40 min

Frame prefix #: FR27F

Day of Week: Thursday

RA offset:

Focus: 503 Humdty: 72 Sheet #: 1

Observers: Fink / Levy

Date MST/UT: March 26/27

Dec offset:

Tailpiece: 197
Balance: 400 Temp O/I: 28/34

17 10-15

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.)
#1 ✓ 1	101-281	0.5	R	1070/1100	3:28:28	21:18:31.3	-0:27:32.9	1:23:15.30	277-527 412m 222-577+62 57190 -11.90
✓ 2	"	"	"	7723/1012	5:1:18			1:51:1.29	56113 -11.87 5, 10-15
✓ 3	Hally	600s	"	970/5100	3:48:59	10:08:22.3	-10:37:27.3	-1:26:1.99	154-665 4 200-711 + 62 129172 -12.72 152362 (20-60) 12.96
✓ 4	"	"	"	9100	4:10:49	29.2	2819.9	-1:09:1.43	152003 5712 -12.95
✓ 5	"	"	"	9100/510	3:21:14	479	410	-0:43:1.40	during 11 th m 146086 5746 -12.91
✓ 6	"	"	"	9200	4:47:23	980	411	-0:27:1.78	148054 5756 -12.93
#2 ✓ 7	"	"	"	9100	5:10:15	479	412	-0:14:1.57	148043 5765 -12.91
✓ 8	101-281	0.5	"	5400	19.79			-0:12:1.19	52460 1087 -11.80
✓ 9	"	0.8	"	5500	21:01			-0:18:1.19	84347 1049 -12.91
✓ 11	4162-66	20s	"	4300	38:42			-0:12:1.39	79619 1226 -12.25
#3 ✓ 10	"	20	"	6000	43:20			-0:03:1.29	92216 1222 -12.27
✓ 12	"	"	"	8600	48:11			-0:09:1.1	99993 1229 -12.70
✓ 13	"	20	"	8300	59:05			-0:14:1.1	100371 1231 -12.70
✓ 14	101 057	3.0	"	4300	6:12:11			+1:09:1.25	82553 1115 -12.29
#4 ✓ 15	"	"	"	3147	14:30			+1:11:1.26	72915 1115 -12.16

refill

Telescope: 61"

Frame prefix #: FR27F

Day of Week:

RA offset:

Focus:

Humdty: 59 Sheet #: 2

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I: 22/30

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.)
✓ 16	Halle	500	R	860/610	6:23:19	461	454	+1:09 1.44	R=5 2.5=10-90 121 164 -12.71
✓ 17	"	"	"	9060/6203	39:43	399	483	1:25 1.48	128 205 -12.73
✓ 18	"	"	"	10118/6572	6:42:09	393	484	1:40 1.53	145 557 -12.93
✓ 19	"	"	"	10696/6284	7:04:51	392	486	1:55 1.59	141 591 -12.88
✓ 20	"	"	"	11580/7235	7:25:22	390	486	2:15 05	147 180 -12.92
✓ 21	"	"	"	11916/7773	7:40:02	386	484	2:26 1.76	150 144 -12.94
✓ 22	"	500	"	10913/6700	53:38	389	487	2:39 1.86	122 005 -12.72
✓ 23	G162-16	15	"	9458/1274	8:08:33	379	411	+2:32 1.84	75 168 -12.19
✓ 24	"	"	"	12042/1274	14:03	411 → 425 433	381 494	2:55 1.86	75 128 -12.19
✓ 25	101-281	0.5	"	10900/	20:27	390 → 425 433	322 495	3:18 1.84	56 233 -11.88
✓ 26	"	"	"	10940/1120	22:10			3:20 1.86	55 212 -11.86
✓ 27	FF	0.7	"	9400	8:36		-17"	} 2:56 +2:12	clean gap and?
✓ 28	"	"	"	9000	8:37		"		
✓ 29	"	"	"	4700	8:38				refill

HALL
#5

Telescope:

Frame prefix #: FR287F

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 3

Observers: Finn/ky

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I: 23/27

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.)
✓ 030	BS 5968	1s	9100	600	9:39:11	10:14:00.0	+33 20 54	-131 1.0%	205 208 205 20-40 109005 222706 208 207. 1097
✓ 31	"	"	"	800				" "	207 242 236 695 276 895 1096
✓ 32	"	0.17	8600	~900	9:39:30			1:28 1.05	-11.8% -4.2% 228 076 247 777 258 677 1093
✓ 33	"	0.5	1100	700	9:42			" "	-11.2% -4.1% 104 376 177 372 185 000 1092
✓ 34	"	0.5	0200	800				" "	-10.8% -4.5% 87 273 93 402 97 824 1092
✓ 35	"	"	"	900				1.09	-10% -4.6% 88 379 93 607 98 103 1091
✓ 36	"	0.2	6185	5500	9:51			-1:14 "	-12.3% -5.0% 82 369 90 278 95 030 1090
✓ 37	"	0.2	"	200	9:55			1.04	-3.7% -13.6% 58 866 80 500 93 157 1088
✓ 38	"	3.0	me 6300M	5500				1.03	-12.4% -4.5% 102 905 118 475 118 848 1089
✓ 39	"	"	"	~3500	10:00				-15.2% -14.5% 76 025 104 320 117 545 1088
✓ 40	"	"	me at 6500	10500	10:01			1.03	-12.1% -7.4% 110 668 117 843 127 329 1088
✓ 41	"	"	"	5300	10:02			-1:03	-23.1% -10.2% 96 394 112 467 125 305 1089
✓ 42	"	0.2	5900	~3400	10:06			1.03	-24.4% -8.4% 65 977 79 963 87 316 1086
✓ 43	"	"	"	~11000				" "	-7.1% -3.9% 80 151 83 599 86 985 1086
✓ 44	"	0.41	5139	6200	10:10			-0.12 1.02	-10% -4.6% 68 050 72 028 75 589 1085

me at line

Telescope: 6" ¹⁴

Frame prefix #: F87F

Day of Week: Friday

RA offset:

Focus:

Humdty: 61 Sheet #: 5

Observers: Fik/leg

Date MST/UT: Nov 27/28

Dec offset:

Tailpiece:

Temp O/I: 29 / 34

R=10, 29, 40

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.)
✓ 051	101-287	0.70	R	4255 /	2:52	9 56 31.5	-02 27 36.7	1.40	For 5120 FW27 56741 1149
✓ 052	"	"	"	880 /				1.40	
✓ 053	"	"	"	920 /	2:54			2:04 1.39	59271 1104
✓ 54	Hally	5.00	R	9700 /	3:02:53	10 17 19.0 ⁴¹⁹	-10 24 53 ⁵⁷⁶	2:07 1.65	313890 5655
✓ 55	"	"	"	950 /	12:49	"	173 30 53	-12:52 1.58	90191 5862
✓ 56	2015	1.0	"	10700				0:29 1.11	58405 1203
✓ 57	"	"	"		3:08			0:31 "	
✓ 58	"	40	9120	2900	3:55			1:038 1.12	
✓ 59	"	80	"	5000	5:18			0:40 "	
✓ 60	"	40	8600	500				0:42 "	
✓ 61	"	"	"		4:05			0:47 "	
✓ 62	"	20	6200	320	4:07			0:49 1.13	
✓ 63	"	40	"	5000	4:09			"	
✓ 64	"	20	6185	8600				"	
✓ 65	"	"	"	"	4:13			0:55 "	

Handwritten circled text: 4228

Vertical handwritten notes on the right side of the table, including "Under photometer, but clouds moving in!"

Telescope:

Frame prefix #: FR87F

Day of Week: Friday

RA offset:

Focus:

Humdty: 57 Sheet #: 6

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I: 27/31

#9

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.)
✓ 66	HP 2015	10	T980	4000				+0.178 1.13	
✓ 67	"	20	"	"	4:17			0.179	cloud motion both sides station
✓ 68	Hally	000	R2	8000	4:20:17			-0.45 1.40	283 941 5643
✓ 69	"	600	"	8400	4:36:19	400	443	-0.12 1.37	320007 5433
									partly cloudy -
✓ 70	"	600	R2	10894	6:11:58	416 ^{mid W}	441	+1.02 1.43	appears clear 202541 ^{star 11.4} 7711
✓ 71	"	"	"	9800/760	7:12:20	417	442	1.39 1.53	
✓ 72	FF	0.7	R	8000	7:12				
✓ 73	"	"	"	8000	7:13				
✓ 74	"	"	"	7900	7:15				
✓ 75	"	"	"	7900	7:16				
✓ 76	Dark	"	"	1119	7:17				
✓ 77	Dark	"	"	1097	7:19				cleared up ↓
✓ 78	BS 5968	15	9180	3000	9:12			-1.99 1.09	
✓ 79	"	"	"	4000	9:14			1.08	

mind very fine
but, dark photometric

Telescope:

Frame prefix #: F287P

Day of Week: Friday

RA offset:

Focus:

Humdy:

Sheet #: 8

Observers:

Date MST/UT: Friday

Dec offset:

Tailpiece:

Temp O/I:

#11

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.)
✓ 94	R5041P	0.2	5980	530	9249	17:20:18	-22:28:79	-2129 1.17	
✓ 95	"	"	"	370	9274	"	"	"	
✓ 96	"	0.1	7139	570	9255			-2126 1.16	
✓ 97	"	"	"	370	9257				
✓ 98	"	0.4	4585	7093	9282			-2121	
✓ 99	"	1.2	4060	2120	10200			1.15	
✓ 100	"	1.0	9180	5100	10208			-2118 1.14	
✓ 101	"	"	"	415	10209			"	
✓ 102	"	0.5	8600	3000	10210			"	
✓ 103	"	"	"	320	10210			1.13	
✓ 104	"	0.5	6250	2400	10213			-2109 1.12	
✓ 105	"	"	"	4600	10214			-2105 "	
✓ 106	"	0.2	6185	7600	10215			-2106 1.12	
✓ 107	"	"	"	5200	10216			-2105 1.12	
✓ 108	Dark	"	—	1063	10218				
✓ 109	"	"	"	1059	10219				

Telescope: 61"

Frame prefix #: FRHF

Day of Week: Saturday

RA offset:

Focus: 5320

Humdty: 58

Sheet #: 9

Observers: Fink/Car

Date MST/UT: Mar 28/29

Dec offset:

Tailpiece: 147

Balance:

Temp O/I: 20/28

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.)
#2 ✓ 110	101-281	0.3s	R	690/1160	02 21 10			232 1.52	
✓ 111	"	0.5	"	920				-232P 1.50	
#3 ✓ 112	G162-66	20s	"	1100/240	212P			-3:03 2.15	
✓ 113	"	25s	"	1300/190	2132			2:12	
✓ 114	"	15		700/160	2132			2:6	Rf 10, 30, 40 7355P 1571
✓ 115	"	"	"	960/1210	2142			-2149 1.99	75480 1253
✓ 116	Halk	500	R	8070	2149:20	10:06:18.7	415 474	-10:22:22.6 -2:15 1.69	235029 4595
✓ 117	"	60	R	960	3106:16	408	475	-1:28 1.60	300.306 5244
✓ 118	"	"	"	1080	3120:27	408	475	-1:45 1.59	31128P 5211
✓ 119	"	"	"	1020	3215:7	410	475	-1:12 1.50	31587P 5253
✓ 120	"	"	"	1035	3141:15	413	475	-1:19 1.46	316552 5301
#12 ✓ 121	"	"	"	1002P	3157:19	414	475	-1:07 1.43	320247 5285
#3 ✓ 122	G162-60	15	"	920	4:12:15			-1:18 1.91	85936 1202
✓ 123	"	"	"	1120	4:14			-1:17 "	82976 1202
#1 ✓ 124	101-281	0.5	"	653	4:18			-0:36 1.21	62111 1105

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty: 59 Sheet #: 10

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I: 20/25

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.)
✓ 125	101-281	0.5	R	880	4120			-0:14 1.20	62728 1105
✓ 126	141-57	2.0	R	950	4127.02			-0:28 1.21	70294 1108
H9 ✓ 127	"	"	"	1220	4129			"	70487 1108
✓ 128	Hobby	600	R	107561	4122.17	435	474	-0:12 1.18	336940 5453
✓ 129	"	600	R	8290	44656	435	474	-0:18/1.37	329356 5604
✓ 130	"	600	R	10231	50005	441	475	-0:05/1.36	cannot read 328995 5643 => 9200
✓ 131	"	"	"	11000	5121.44	440	472	+0:07 "	322519 5724
✓ 132	"	"	"	11000	5125.34	441	471	+0:20 1.27	319803 5788
✓ 133	"	"	"	10000	38:28	443	471	0:13 1.38	316220 5752
✓ 134	G162-60	15	"	470	5218			+0:27 1.40	fill down 83393 1243
✓ 135	"	"	"	400	6100			+0:29 "	82917 1247
✓ 136	101-281	0.5	"	5200	6100			+1:09 1.25	62572 1141
✓ 137	"	"	"	6750	6107			1:12 "	62384 1142
✓ 138	101-57	3.0	"	760	6110			+1:14 1.26	
✓ 139	"	"	"	10700	6112			1.27	104405 1163

6:16:00

Telescope:

Frame prefix #: *FL*

Day of Week:

RA offset:

Focus:

Humdty: *59* Sheet #: *11*

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Temp O/I: *19 / 23*

Balance:

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.)
✓ 140	<i>Haley</i>	<i>600</i>	<i>R</i>	<i>970</i>	<i>6:16:00</i>	<i>444</i>	<i>415</i>	<i>4:11:2 1.44</i>	<i>272011 5019</i>
✓ 141	"	"	"	<i>11300</i>	<i>6:16:25</i>	<i>409</i>	<i>408</i>	<i>1:25 1.48</i>	<i>Saw 227 6169</i>
✓ 142	"	"	"	<i>11900</i>	<i>7:225</i>	<i>409</i>	<i>480</i>	<i>2:19 1.71</i>	<i>2 - m. w. the 141 412 7732</i>
✓ 143	"	"	"	<i>11800/760</i>	<i>7:21:15</i>	<i>44</i>	<i>480</i>	<i>2:56 1.83</i>	
✓ 144	"	"	"	<i>11200</i>	<i>7:18:18</i>	<i>397</i>	<i>481</i>	<i>2:51 1.95</i>	<i>8400</i>
✓ 145	<i>BS 6478</i>	<i>1.0</i>	<i>9100</i>	<i>6000</i>	<i>8:19</i>	<i>17:20:178</i>	<i>52:24:112</i>	<i>4:10 1.55</i>	<i>2240</i>
✓ 146	"	"	"	"					
✓ 147	"	<i>0.5</i>	<i>8000</i>	<i>5000</i>	<i>8:22</i>			<i>-3:17 1.75</i>	<i>40.9</i>
✓ 148	"	"	"	<i>7200</i>					
✓ 149	"	<i>0.5</i>	<i>6200</i>	<i>8500</i>	<i>8:25</i>			<i>-3:53 1.57</i>	<i>41.5</i>
✓ 150	"	"	"	<i>7100</i>				<i>-3:57 1.70</i>	<i>41.8</i>
✓ 151	"	<i>0.2</i>	<i>6185</i>	<i>7700</i>	<i>8:28</i>			<i>-3:50 1.49</i>	<i>42.0</i>
✓ 152	"	"	"		<i>8:29</i>			<i>3:49 1.49</i>	<i>42.2</i>
✓ 153	"	<i>0.2</i>	<i>5980</i>	<i>10900</i>	<i>8:32</i>				<i>1.47</i>
✓ 154	"	"	"	<i>6840</i>	<i>8:35</i>			<i>-3:45 1.46</i>	<i>43.09</i>

Telescope:

110
100µ 0.2m / 11"

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 12

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.)
✓ 115	RS 641P	0.1	5139	540	8:14			-3:43 1.46	EE 1 93.93
✓ 116	"	"	"	400	8:15			-3:42 1.45	93.6
✓ 117	"	0.9	4765	530	8:17			-3:40 1.44	93.99
✓ 118	"	"	"	570	8:18			-3:40	94.13
✓ 119	"	1.2	4060	380	8:19			-3:18 1.43	94.4
✓ 160	"	"	"	390	8:40:41			-3:37 1.42	94.66 Fov 5260
✓ 161	"	2.0	5980	590				1.09	Fov 5308 See machine
✓ 162	"	"	"	890	10:28				Direct
✓ 163	"	"	"	920	10:29				2nd camera
✓ 164	"	1.0	"	420	10:30			1.08	
✓ 165	"	1.0							
✓ 166	"	"			10:32				
✓ 117	"	0.5			10:37			-1:40 1.07	
✓ 168	"	"			10:38				

169

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 13

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.)
✓ 169	D56418	0.5	5980	3300	10:39			-1:28 1.07	
✓ 170	"	0.2	"	2200	10:40			1.07	
✓ 171	"	"	"		10:41				
✓ 172	"	"	"	2700	10:42			-1:26 1.07	
									Fans 5260
✓ 173	D56418	0.2	5980	12460	10:15			-1:22 1.05	put range < 81665 1296
✓ 174	"	"	"	900	11:09			-1: 1.04	
✓ 175	"	0.1	5139	11600	11:01			-1:16 1.04	
✓ 176	"	"	"	2	11:02			"	
✓ 177	"	0.9	4785	10800	11:09				
✓ "	"	"	"	4	11:05			-1:12 1.09	
✓ 179	"	1.2	4060	4700	11:06			"	
✓ 180	"	"	"	3380	11:07			1.03	
✓ 181	"	1.0	918	2600	11:10			-1:07 "	
✓ 182	"	"	"	2900	11:11				

