

Telescope:

Frame prefix #: FR45K

Day of Week: FRI/SAT

RA offset:

Focus: 3574

Humdty: 49% Sheet #: ①

Observers: Fink Schultz
Christy

Date MST/UT: Dec 6/7

Dec offset: 3^{min} south

Tailpiece: 17

Balance: 51

Temp O/I: 34/40

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.)
✓001	Halley	5	V	10400	1:31:18	00:10:30.2	08:54:40	1E	Filled dewar 3:45 Topped off dewar 5:30
✓002	"	15	"		1:33:08				
✓003	"	45	"		1:34:42				
✓004	"	5	R	9100	1:36:49				
✓005		15	I		1:39:06				
✓006		45	"		1:40:43				
✓007		10	B	6800	1:42:50				
✓008		30	"		1:44:48	60:10:268	08:54:15	00:45E	
✓009		90			1:47:27				focus 3566
✓010		5	I	7800	1:52:13				focus set to 3524
✓011		15	"		1:54:14				
✓012		45			1:55:51				
✓013		30	5139	5155	2:04:50				set focus to 3566
✓014		180			2:07:26				
✓015		60	6185	53	2:13:04			0:17:40E	

Telescope:

Frame prefix #: F095

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 2

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.)
✓016	Holley	300	6185	2:16:41					
✓017	"	300	6250	2:23:45	10900				
✓018	"	1200	6300	2:32:14	11400			0:01:45w	I=39 H=45% U=34 center 372, 441
✓019	"	1200	6300 TLT	3:06:48	10700			0:36:40	center 370, 443
✓020	"	120	5980	3:32:09	9700			1:01:00w	
✓021	"	300	"	3:35:38					Focus 3560
✓022		180	9180	3:43:41	7000				Focus 3520
✓023		600	"	3:48:46				1:18:52	
✓024		80	8600	4:01:02	4600				
✓025		180	"	4:04:03	9700				
✓026		30	8520	4:09:26	9300			1:41	F
✓027		180	4565	4:16:51	4500			1:47:18w	FOCUS 3562
✓028		360	"	4:21:45	8300				
✓029		600	4060	4:29:31	3500				
✓030		60	6185	4:45:07	4500			2:16w	

Telescope:

Frame prefix #: FRGSK

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.)
✓031	Halley	300	6185	4:48:11				2:19:00	
✓032	"	240	6250	4:55:39				2:26:17	
✓033	"	60	5139	5:01:30	8400			2:32	
✓034		900	6300 TLT	5:04:34	6600				Temp & dewar 10:25
✓035	"	"	6300	5:28:24	5800				I=37 H=46% O=31
✓036	"	15	V	5:48:41					
✓037		"	R	5:50:20					3:21:30
✓038		30	B	5:51:43					Focus 3564
✓039		15	I	5:54:21				3:25:30	Focus 3524
✓040		180	9180	6:00:15	5800			3:31:30	
✓041		180	8600	6:04:58	8600			3:36	
✓042	Hubble	5	V	6:49:12	8800				Focus 3562
✓043		5	R	6:46:07	10200				
✓044		10	B	6:51:16	6500				Focus 3555
✓045		5	I	6:54:36					Focus 3521

Telescope:

Frame prefix #: FR65K Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: 4

Observers: Christy
Fink Schultze

Date MST/UT: Dec 6/7

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.)
✓046	Hubble	3	I	10 000	6:56:48				
✓047		30	"		6:58:37				
✓048		60	"		7:00:59				
✓049		120	"		7:04:23				
✓050		300	"		7:08:27				
✓051		600	I		7:16:04	06:38:25	08:45:47	01:41E	
✓052		300	R		7:29:51				Focus 3560
✓053		600	R		7:37:02				
✓054	FF	0.25	R	8000	c				
✓055	"	"	"						
✓056	"	"	"						
✓057		0.4	V	8100					
✓058		"	"	8					
✓059		"	"						
✓060			B	8200					

Telescope:

Frame prefix #: FR851K

Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: (5)

Observers: christy
Schultz Fink

Date MST/UT: Dec 6/7

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.)
✓061	FF	2.0	B						
✓062	"	2.0	B						
✓063	"	.2	I	9400					
✓064	"	"	"						
✓065	"	"	"						
✓066	LAN 96-281	15	I	4200	8:39:16	8:20:17	14:41:24	2:04 E	1.20 L59 = 6.16
✓067	"	"	"					2:02	1.19
✓068	"	6.0	R	6700	8:42:25			1:57	FOCUS 3568 1.18
✓069	"	"	"	5400	8:43:45			1:56	1.18
✓070	"	4.0	V	6500	8:45:48			1:54	1.17
✓071	"	"	"		8:47:06			1:52	1.17
✓072	"	10.0	B	6000	8:48:34			1:50	1.16
✓073	"	"	"	6100	8:50:03			1:49	1.16
✓074	BD8-2015	2	B	9300	9:01:28	8:05	+7:37	1:34	
✓075	"	"	B		9:03:12				

Telescope:

Frame prefix #: FR85K

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 6

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.)
✓ 076	B08-205	1.8	V	8200	9:51:35	8:14:52.6	7:36:44	1:28:31	
✓ 077	"	"	"		07:16			1:27	
✓ 078	"	1.0	R	9200	9:20:22			1:06	
✓ 079	"	"	"	8500	29:54			1:04	
✓ 080		1.5	I	4800	9:30:36			1:03	
✓ 081		3.0	I	7200	33:27			1:00	
✓ 082		10	5139	10000	10:08:23			0:25	Focus 3520
✓ 083		8	"	10000	10:15			0:24	I = 38 O = 32 H = 44%
✓ 84		10	6185	9600	16:22			00:17	
✓ 85		"	"	9500	17:58			00:16	
✓ 86		20	6250	7400	10:25:05			0:09	
✓ 87		"	"	8200	10:26:39			0:07	
✓ 88		120	6300	9200	28:46			0:05	
✓ 89		11	"	9200	32:16			0:02	
✓ 90		20	9180	4300	42:57			0:09W	Focus 3460

Telescope:

Frame prefix #: FR85K Day of Week: Fri/Sat

RA offset:

Focus:

Humdty:

Sheet #: 8

Observers: Christy Fink Date MST/UT: Dec 6/17

Dec offset:

Tailpiece:

Balance:

Temp O/I:

SCHULTZ

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.)
✓106	FV	60	4565	9600					
✓107	"	11	"	9500					
✓108		7.0	5980	7500					
✓109		11	11						
✓110		0.6	6520	8400					
✓111		11	11	11					
✓112		2.5	6600	7200					
✓113		11	11	7000					
✓114		3.0	9180	7400					
✓115		11	11	11					
✓116		7.0	5139	7800					
✓117		11	11						
✓118		5.0	6185	6800					
✓119		11	11						
✓120		12	6250	7300					

Telescope:

Frame prefix #:

FRBS1C

Day of Week:

Sat/Sun

RA offset:

0

Focus:

3467

Humidity:

44%

Sheet #:

10

Observers:

Christy Fink
D. Santic

Date MST/UT:

Dec 7/8

Dec offset:

1^m 24^{sec}
South

Balance:

400

Temp O/I:

36/40

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.)
✓124	Xe	.05	0,25						
✓125	"	0.2	"						
✓126	He	.05	"						
✓127	"	0,2	"						
✓128	BS8931	1.0	"		1:49:06				Focus 3460
✓129	"	"	"		1:51:56	23:30:49.8	-4:11:57	0:04 w	
✓130	"	"	"		1:54:41				Focus 3614
✓131	"	"	"		1:56:02			0:06 w	Sec 2
✓132	Halley	300	"	2 nd slit	2:06:46			0:12 E	Hazy & cloudy L.098
✓133		"	"		2:20:28			0:09 w	Hazy L.097
✓134		600	"		2:28:19	00:02:14.3	+8:09:32	0:09 w	Halley behind occulting strip L.099
✓135		300	"		2:53:05			0:34 w	Hazy Focus 3605 L.110
✓136		"	"	2 nd slit	3:00:06			0:41:30	L.116
✓137		180			3:07:20			0:49	L.112
✓138		1200			3:13:54			0:55	Halley behind occulting dot L.139

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #

(11)

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.)
✓139	Halley	1200	.25		3:39:12			1:20	Halley behind occulting ribbon 1.179
✓140		180	11		4:02:17			1:44	1.213
✓141	BS 8931	0.7	"		12:46			2:26w	
✓142		1.0	11		4:18:05			2:31	
✓143		1.0	11		4:19:18			2:	
✓144	Halley	1200	11		4:31:42			2:141	good exposure, 1.330
✓145	"	1800	11		57.38			2 ^h 40 ^m W	1.403
✓146	BS 506	1.0	11		5:11:24			1:11w	
✓147	"	1.0	11		5:12:44			1:12	
✓148	"	11	11		5:13:41				
✓149	BS 718	0.1	1.0		18:38	2:27:22.9	8:22:03		Sta, 1.51
✓150	"	0.2	11		19:52			3:04w	1.52
✓151	"	11	11		5:22:15				hazy 1.53
✓152	FE	15	0.25	10400					
✓153	"	11	11	11					

New
tape →

Telescope: 61"

Frame prefix #: FEESK

Day of Week: Sat/Sun

RA offset:

Focus: 3560

Humdty: 44 Sheet #: 12

Observers: Christy DiSanti
Marcellis Schutte

Date MST/UT: Dec 17/8

Dec offset:

Tailpiece:

Balance:

Temp O/I: 34/37

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.)
✓ 154	FF	15	0.25						
✓ 155	"	15	"						exposure \approx 125 sec
✓ 156	Hubble RMON	300	"		6:17:46				position angle = 17 Topped off dewar
✓ 157	"	300	"		6:32:12	6:38:24.0	+8:43:47		10:45
✓ 158	" JUX NEB	295			6:44:13	6:38:24.1	+8:44:17		RMON OFF SLIT 5" EAST
✓ 159	"	3600			6:54:45				airmass \approx 1.174
✓ 160	Darg	1.0		691					S.D = 14.3
✓ 161	SAO 026424	15		?	8:44:52			1:06.6	Focus 3551
✓ 162	"	5.0		?	9:02:43			0:52.6	airmass \approx 1.1
✓ 163	"	5.0		?	9:09:41			0:41.6	
✓ 164	"	500		3600	9:12:34				Seeing worse
✓ 165	MKN 9	600	0.25	5000 Hz	9:50:47			0:00	1.1163
✓ 166	"	900	"		10:07:59				1.1194
✓ 167	"	600	"		10:33:43			0:43 W	1.1282
✓ 168	"	600	"	500 Hz	10:48:54			0:58 W	1.1370

Telescope: 61"

13

Frame prefix #: FR95K Day of Week: SAT(Sun)

RA offset:

Focus: 3550

Humdty: 43 Sheet #:

Observers: D. SANTI,
MARCIALIS KARKOSHIKA

Date MST/UT: 7/8 DEC 85

Dec offset:

Tailpiece:

Balance:

Temp O/I: 32/37

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	MKN 9	600	0.25	2370	11:02:01 ⁷	7:35:50	58:47:29	1:11 W	1.1467
✓ 170	SAO 026424	5.0	"	4700	11:26:00				
✓ 171	"	5.0	"	4400	11:34:09				50° 40" E of MKN 9
✓ 172	"	5.0	"	7700	11:31:13	7:35:52.6	57:44:09		
✓ 173	BS 3314	0.1	1.0 mm	6950	11:48:52	8:24:51	-3:54:15	1:09 W	1.30
✓ 174	"	0.1	"		11:51:50				1.31
✓ 175	"	0.1	"	8080	11:52:27				1.31
✓ 176	SAO 027692	10.0	0.25	7344	12:10:30	10:33:24.3	+52:12:23	0:32 E	
✓ 177	"	10.0	"		12:12:40			0:34 E	
✓ 178	"	10.0	"	6146	12:14:17			0:36 E	
✓ 179	MKN 142	600	"	2200 ¹⁰⁰	12:38:08	10:24:39.6	+51:44:03	0:00	
✓ 180	"	600	"	1500 ¹⁰⁰	12:50:39			0:11 W	
✓ 181	"	600	"	1476	13:05:32				
✓ 182	DARK	0	"		13:21:00				
✓ 183	DARK	0	"		13:22:00				

- end night -

Telescope:

Frame prefix #: FR85K Day of Week: Sun/Mon

RA offset:

Focus: 3557

Humdty: 49

Sheet #: 14

Observers: Disante
Marcialis Karkoschka Schultz

Date MST/UT: Dec 8/9

Dec offset:

Tailpiece: 949

Balance:

Temp O/I: 32/39

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.)
✓ 184	BS 8931	1.0	0.25	4000	1:24:12	23:30:46.0	-4:12:03	0:19 E	Filled dewar #1 4:10
✓ 185	"	2.0	"	11000	1:27:16				Filled dewar #2 4:20
✓ 186	"	1.5	"	6000	1:29:43				Topped off Dewar #1 6:00
✓ 187	"	1.5	"	9600	1:36:22				
✓ 188	Halley	300	"		1:57:52	23:54:49.3	7:27:31	0:09 E	1.10
✓ 189	"	60			2:09:43			0:00	
✓ 190	"	1200			2:24:37	23:54:42.9	7:26:35	0:17 W	good exposure 1.11
✓ 191	BS 8931	1.5			2:52:21			1:09 W	
✓ 192	"	"			2:53:43				
✓ 193	"	"			2:54:44				
✓ 194	Halley	300			3:07:57	23:54:28.0	7:25:34	1:01 W	1.14
✓ 195	"	1200			3:19:04			1:12 W	1.17
✓ 196	BS 8931	1.5			3:49:17			2:05	
✓ 197	"	2.0			49:55				
✓ 198	"	2.0			3:51:19	23:30:44.6	-4:11:55		

Telescope: 61"

Frame prefix #: FBSSK

Day of Week: Sun/Mon

RA offset:

Focus: 3504

Humdty:

Sheet #: 15

Observers: Disanti

Date MST/UT: Dec 8/9

Dec offset:

Tailpiece:

Balance:

Temp O/I:

Marcialis Schultz

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.)
✓ 199	BS 508	1.0	0.25	5200	4:13:23	1:44:07.3	19:58:59	0:17W	
✓ 200	"	1.5	"		4:14:58				
✓ 201	"	"	"		4:16:11			0:19W	
✓ 202	Danz	1.5			4:20:00				
✓ 203	Danz	1.5			4:21:00				
✓ 204	Hallen	30	V	27000	5:24:19			3:18W	Hazy
new 205 ✓	"	5	"	14000	5:29:32				windy
✓ 206		5	R	15000	5:31:18			3:25W	
✓ 207		30	"	27000	5:32:52			3:27W	
✓ 208		30	B	20000	5:34:58			3:29W	
✓ 209		10		9500	5:36:53			3:31W	
✓ 210		5	I	12700	5:40:09			3:34W	focus 3504
✓ 211		30	"	28000	5:42:01			3:36	
✓ 212		60	6250		5:49:02			3:43	
✓ 213		600	"	10000	5:51:39	23:53:41	19:22:04	3:46	cloudy - closed

Telescope: 61"

Frame prefix #: FR65K

Day of Week: SUN/MON

RA offset:

Focus: 3507

Humdty: 50

Sheet #: (16)

Observers: DISANTI SCHULTE Date MST/UT: 8/9 DEC 85

Dec offset:

Tailpiece:

Balance:

Temp O/I: 32/28

MARCIALLIS KARKOSZKA

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.)
✓ 214	FLATFIELD	15.0	6250R	11800	6:26:00				
✓ 215	"	"	6250R	11700	6:29:00				
✓ 216	"	2.0	B	10,500	6:39:00				Headerd any FILTER WAS "B"
✓ 217	"	"	B	10,600	6:40:00				filter = 6250R FILTER WAS "B"
✓ 218	"	0.5	V	12,500	6:42:00				
✓ 219	"	0.5	V	12,470	6:44:00				
✓ 220	"	0.3	R	11,200	6:48:00				
✓ 221	"	0.3	R	11,200	6:50:00				
✓ 222	"	0.2	I	12,000	6:53:00				
✓ 223	"	0.2	I	12,200	6:55:00				
✓ 224	DARK	0.0	-	163±14	6:57:06				
✓ 225	"	0.0	-	162±14	6:59:00				
✓ 226	FF	15	.25	1000					
✓ 227	"	"							
✓ 228	"	"							

Telescope:

Frame prefix #: ~~FB88K~~ Day of Week: Sun/Mon

RA offset:

Focus: 3500 Humdty:

Sheet #: 17

Observers: Karl corschka Date MST/UT: Dec 8/9

Dec offset:

Tailpiece: 17

Balance: Temp O/I:

DISANTI MARCIALIS SCHULTZ

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.)
✓ 229	FF	15	.25						
✓ 230	FF	11	11						
✓ 231	Dark	11	11						
✓ 232	SAD 26424	5	11	8100	9:35:51	7:35:51.7	57:34:24	0:11E	Focus 3496
✓ 233	11	4	11	6400	9:42:25				
✓ 234		11		7200	9:43:47				
✓ 235	MKN 9	600	11		9:59:35	7:35:50.3	58:47:34	0:12W	
✓ 236	11	1200	11		10:16:35			0:19W	lost 10 seconds (dark) (shut off)
✓ 237	11	11	11		10:43:23			0:56W	He penk 305
✓ 238	SAD 26424	5		6400	11:28:55	7:35:53.1	57:34:12	1:42W	
✓ 239	11	9		9000	11:33:44				
✓ 240	11	11		7000	11:34:56	7:35:52.5	57:34:12	1:48W	
✓ 241	BS 3314	0.1	1.0	6200	11:50:01	8:24:55.0	-3:53:09	1:14W	
✓ 242	11	11	11	11	11:51:19				
✓ 243	11	11	11	5500	11:52:32				

New
tape

Telescope:

TRC

Frame prefix #: FR85K

Day of Week: Tu/Wed

RA offset:

Focus:

Humdty:

Sheet #: 101

Observers: Willis/Schmidt

Date MST/UT: 10/11

Dec offset:

Tailpiece: 668

Balance:

Temp O/I:

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.)
253	Halley	600.0	EQ 0.350		2:16:18			31" W	Picker fully full Halley
254	TH-AR	200.0	EQ 0.390						Picker fully full don't need all this anyway
255	Halley	1800.0	EQ 390		2:40:30			53" W	
256	TH-AR	200.0	EQ 0.390						
257	Halley	1800.0	EQ 0.390		3:19:10		readout	1 ^h 34" W	started with 12:07 ^m left
258							Danted		
259	TH-AR	200	"		3:42				
260	Halley	1800	"		3:48:20	23:40:21.2	—	2 ^h 03 W	
261	TH-AR	200	"						
262	Dark	1.0	"						
263	Dark	1.0	"						
264	TH-AR	200	OF 100 0.390		cal = 0.150				cal changed to 0.150
265	TH-AR	200	"		cal 0.004	0.175			
266	TH-AR	120.0 120.0	"			0.110	0.002	4805	
267	Hot Halley	600.0	"		3:04:33			3 ^h 26 ^m W	

distant

Telescope: _____
 Frame prefix #: FT851<
 Observers: wells/acharya
 Day of Week: _____
 Date MST/UT: Dec 16/11
 RA offset: _____
 Dec offset: _____
 Focus: _____
 Tailpiece: _____
 Balance: _____
 Humdty: _____
 Sheet #: _____
 Temp O/I: _____

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.)
268	TH-AR TH-AR	60.00	VFH ₂₀						
269	H ₂₀ Nelly	1800.00	"		5:21:50			3 ^h 37 ^m 10 ^s	
270	TH-AR	60.00	"						
271	DARK	1.00	"						
272	DARK	1.00	"						
273	FF	200.00	"						
274	FF	200.00	OI(40)		6:44				
275	FF	100.00	EQ		6:56	crank 1050			
		THU 12	17:43	UT					
✓ 276	Mercury	120.00	Dub		17:43	tailpiece 260			
✓ 277	"	"	"		17:48				
✓ 278	TH-AR	120.00	"			tailpiece now 236		looking through some dust 1025	
✓ 279	Mercury	180.00	"					yellow fog	
✓ 280	Mercury	120.00	"						
✓ 281	"	120.00	"						

W

Telescope: _____
 Frame prefix #: _____ Day of Week: _____ RA offset: _____ Focus: _____ Humdty: _____ Sheet #: _____
 Observers: _____ Date MST/UT: _____ Dec offset: _____ Tailpiece: _____ Balance: _____ Temp O/I: _____

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.)
✓ 252	TH-AR	300	D4 0.390						
				Move to tailpiece	326				
✓ 283	TH-AR	1200	D4 0.390						↓
✓ 284	Mercury	120	11		18:18:00				Some clouds
✓ 285	"	11	11		18:21				11 & mostly large
✓ 286	"	120	11						Hour ^{EAST} west
✓ 287	TH-AR	120	11						
✓ 288	Mercury	120	11		18:35				
✓ 289	"	1200	11		18:38			0 ^h 45 ^m W	No image!
✓ 290	Star	1200	11						
✓ 291	Mercury	1200	11		18:43			0 ^h 51 ^m W	
✓ 292	Star	1200	11		18:46:30				
✓ 293	TH-AR	300	11						
					Back to 236				
✓ 294	TH-AR	12000	11						

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #:

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I:

W4

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.)
✓ 245 243	Mercury	120.0	DC C.310						North cloudy
✓ 246	TH-112	60.0	JH N375						
✓ 247	Sky	120.	JH 375						
✓ 248	"	"	JH C.390	Blank	2750				
			Note: all Mercury were C.317 NOT 0.390!						
✓ 249	Mercury	120.0	JH C.397		20:11				some clouds
✓ 300	TH-AR Mercury	120.2	"						some light clouds
✓ 301	Mercury	120.0	"		20:19			hr & out Recess 04	
✓ 302	Moon	"	"		20:24				"
✓ 303	TH-AR	300.0	"						
✓ 304	Park	100	"						
MM ✓ 305	"	"	"						
✓ 306	"	"	"						
✓ 307	"	"	"						

Telescope: _____
 Frame prefix #: _____ Day of Week: _____ RA offset: _____ Focus: _____ Humdty: _____ Sheet #: _____
 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.)
✓ 308	FF	180s	Jφ	crank 2750					
✓ 309	FF	200s	Jφ						
✓ 310	FF	200s	Jφ	crank 4650					
✓ 311	FF	300s	DY						
✓ 312		300s	Pφ						
✓ 313	Xe cal	180s	CN filter 0.383	crank = 2200					exp of same as before x 0-800
✓ 314	TH-AR	120s	Eφ 0.383	crank - 6050					
✓ 315	CN	600s	CN filter 0.383	5					Not sure what this is
✓ 316	Halley CN	600s			1:46 UT start				
✓ 317	micrometer	30s							
✓ 318	Halley CN	1800s			2:01 UT start				
✓ 319	Halley CN	1800s							crank 2600 Go Back to 92x52 104 new 390 inches of cut previous 390 New 383
✓ 320	TH-AR	120s	Eφ 0.383						found shutter was wire pulled out & read CN
✓ 321	ex moon Halley	300s	CN 0.383						

Telescope:

206

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #:

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Temp O/I:

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.)
✓ 322	Hally CN	1800.0	EN 0.378						mark
Not out 2-312	323	1200 180.0	EC 0.385						
✓	324	"	0.397						
✓	325	Hally OI 600.0	ED 0.390		4:42				"perat" slit
✓	326	Hally OI 1800.0	ED 0.390		5:08				
✓	327	"	ED 0.390		5:40				they not be film comp bracket
	328	Hally THAR	ED						Count taken over spec too long
					90 to H ₂				mark 4650
✓ 328	329	H ₂ (THAR) 1800.0	A7 0.390						Col of camera Micro same as above
✓	329	H ₂ Hally N ₂ 300.0	A7 0.390		8:01:04	6:35:24.0	+8:45:06	0:33E	
✓	330	"	"		8:11:25			0:23E	
✓	331	"	"		28:20			0:06E	slit 0.195
✓	332	TH-AR 180.0							

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #:

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.)
✓ 333	Hubble	10.0	R	1100	10:45:15				
✓ 334		30	I		46:49	6:36:25.7	+8:47:24	2:15W	
✓ 335		120			10:50:59				
✓ 336		10	V	6500	10:54:28				
✓ 337		30	I		56:07				
✓ 338		20	B	3000	57:45			2:24	
✓ 339		60		10000	6:59:40				Focus 3480
✓ 340		10	I	11500	11:02:36				Focus 3454
✓ 341		10	I	12500	11:12:39				Focus 3462
✓ 342		30			14:21			2:40W	
✓ 343		120			11:16:00				
✓ 344	LAW	60	I	13400	29:07	8:27:17	14:47:48	1:13W	
✓ 345					30:57				
✓ 346		4.0	R	7600	34:07				Focus 3480
✓ 347					35:26				

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: *W7*

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.)
<i>✓346</i>	<i>LAV</i>	<i>4.0</i>	<i>✓</i>	<i>11:36:28</i>	<i>8600</i>				
<i>✓347</i>	<i> </i>	<i> </i>		<i>37:50</i>					
<i>✓350</i>	<i> </i>	<i>8</i>	<i>B</i>	<i>39:07</i>	<i>5700</i>				
<i>✓351</i>		<i> </i>		<i>40:36</i>					
<i>✓352</i>	<i>Dwarf</i>	<i>4.0</i>		<i>2</i>	<i>227</i>				<i>← run out of tape</i>
<i>✓353</i>	<i> </i>	<i> </i>			<i>186</i>				
<i>✓354</i>	<i>AV</i>	<i>120</i>							
<i>✓355</i>	<i>Mars</i>	<i>120s</i>	<i>Dφ</i> <i>0.247</i>		<i>12:39:31</i>				
<i>✓356</i>	<i>TH-AR</i>	<i>120s</i>	<i>0.247</i> <i> </i>						
<i>✓357</i>	<i>Mars</i>	<i>600s</i>	<i>Dφ</i> <i>0.347</i>		<i>12:47:45</i>				
<i>✓358</i>	<i> </i>	<i>600s</i>	<i>Dφ</i> <i>0.347</i>						
<i>✓359</i>	<i>TH-AR</i>	<i>120s</i>	<i> </i>						
<i>Mercury ✓360</i>	<i>TH-AR</i>	<i>120s</i>	<i> </i>						
<i>✓361</i>	<i>Mercury</i>	<i>240s</i>	<i> </i>		<i>13:31:30</i>				<i>) polar</i>
<i>✓362</i>	<i> </i>	<i>480</i>	<i> </i>		<i>13:37:34</i>				

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 608

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I:

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.)
✓ 363	Mercury	240s	70 0.397		13:52:13		equatorial	slit	OPIC Caprus South Crank East
✓ 364	TH-AR	120s	11						
✓ 365	Mercury	240s	11		14:20:12				
✓ 366	"	240s	11		14:05:23		south offset		7.2 arc dia
✓ 367	"	240s	11		14:10:		North		7.2 arc dia
✓ 368	TH-AR	120s	11						
✓ 369	Mercury	240s	11						pole or overexposed
✓ 370	"	240s	11		14:33				
✓ 371	"	11	11		14:38				
✓ 372	TH-AR	11	11						
374	TH-AR	120s	11		14:47				
✓ 373	Sky	240s	11		14:47				
✓ 374	Mercury	11	11						
✓ 375	Mercury	11	11						
✓ 376	TH-AR	120s	11						

