

UT Date 2018-04-11 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	01:52	07:36:04.1	+31:30:34	300	90	3.0	0 Calibration	4	
0011.COMP	5	01:55	07:36:04.1	+31:30:34	300	90	3.0	0 Calibration	4	
0012-0031.FLAT	7	02:03	07:36:04.1	+31:30:34	300	90	3.0	0 Calibration	2	
0032-0041.BIAS	0	02:10	07:36:04.1	+31:30:34	300	90	3.0	0 Calibration	2	
0042.G191B2B	360	02:52	05:05:30.6	+52:49:52	300	90	3.0	#56 Spectropho	2	
0043.COMP	10	02:59	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0044.Hiltner600	90	03:03	06:45:13.4	+02:08:15	300	90	3.0	#56 Spectropho	2	
0045.COMP	10	03:05	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0046.GITau	240	03:07	04:33:34.0	+24:21:18	300	89	3.0	#12 Symbiotic	2	
0047.COMP	10	03:12	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0048.GKTau	240	03:14	04:33:34.5	+24:21:07	300	90	3.0	#12 Symbiotic	2	
0049.COMP	10	03:19	04:33:34.5	+24:21:07	300	90	3.0	0 Calibration	2	
0050.SS129	300	03:25	07:32:45.0	-26:49:16	300	78	3.0	#12 Symbiotic	2	
0051.SS129	300	03:30	07:32:45.0	-26:49:16	300	78	3.0	#12 Symbiotic	2	
0052.COMP	10	03:36	07:32:45.0	-26:49:16	300	77	3.0	0 Calibration	2	
0053.BXMon	15	03:39	07:25:23.0	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0054.BXMon	180	03:40	07:25:23.0	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0055.COMP	10	03:44	07:25:23.0	-03:35:51	300	90	3.0	0 Calibration	2	
0056.BGGem	300	03:47	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	
0057.BGGem	1200	03:52	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	

UT Date 2018-04-11 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

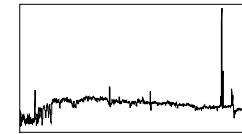
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0058.COMP	10	04:13	06:03:31.0	+27:41:50	300	91	3.0	0 Calibration	2	
0059.snAT2018gv	1800	04:15	08:05:34.6	-11:26:16	300	90	3.0	#2 SN Observat	2	great seeing
0060.COMP	10	04:46	08:05:34.6	-11:26:16	300	91	3.0	0 Calibration	2	
0061.sn2018oh	1800	04:48	09:06:39.5	+19:20:18	300	90	3.0	#2 SN Observat	2	
0062.COMP	10	05:21	09:06:39.5	+19:20:18	300	90	3.0	0 Calibration	2	
0063.J095048	900	05:24	09:50:48.4	+39:26:50	300	90	3.0	#227 Changing-	2	
0064.J095048	900	05:39	09:50:48.4	+39:26:50	300	90	3.0	#227 Changing-	2	
0065.J095048	900	05:54	09:50:48.4	+39:26:50	300	90	3.0	#227 Changing-	2	
0066.COMP	10	06:10	09:50:48.4	+39:26:50	300	90	3.0	0 Calibration	2	
0067.J115026	1200	06:13	11:50:26.5	+01:59:28	300	91	3.0	#227 Changing-	2	
0068.J115026	1200	06:33	11:50:26.5	+01:59:28	300	91	3.0	#227 Changing-	2	
0069.J115026	1200	06:53	11:50:26.5	+01:59:28	300	91	3.0	#227 Changing-	2	
0070.COMP	10	07:14	11:50:26.5	+01:59:28	300	91	3.0	0 Calibration	2	
0071.TXCVn	10	07:15	12:44:42.0	+36:45:48	300	91	3.0	#12 Symbiotic	2	
0072.TXCVn	30	07:16	12:44:42.0	+36:45:48	300	91	3.0	#12 Symbiotic	2	
0073.COMP	10	07:17	12:44:42.0	+36:45:48	300	90	3.0	0 Calibration	2	
0074.RWHya	2	07:20	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0075.RWHya	10	07:20	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0076.RWHya	20	07:20	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0077.COMP	10	07:21	13:34:18.0	-25:22:51	300	90	3.0	0 Calibration	2	

UT Date 2018-04-11 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

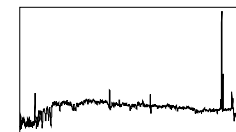
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0078.J121640	1200	07:24	12:16:40.6	+07:12:24	300	90	3.0	#227 Changing-	2	
0079.J121640	1200	07:44	12:16:40.6	+07:12:24	300	90	3.0	#227 Changing-	2	
0080.COMP	10	08:06	12:16:40.6	+07:12:24	300	90	3.0	0 Calibration	2	
0081.BDp262606	79	08:08	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0082.COMP	10	08:10	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0083.BDp332642	120	08:13	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0084.COMP	10	08:17	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0085.sn2018aoz	300	08:21	11:51:01.8	-28:44:39	300	89	3.0	#2 SN Observat	2	
0086.COMP	10	08:26	11:51:01.8	-28:44:39	300	89	3.0	0 Calibration	2	
0087.AT2018apn	2700	08:31	15:50:03.6	+42:05:18	300	89	3.0	#225	2	
0088.COMP	10	09:17	15:50:03.6	+42:05:18	300	90	3.0	0 Calibration	2	
0089.AT2018aab	1800	09:19	15:07:22.8	+38:25:00	300	90	3.0	#225	2	
0090.AT2018aab	1800	09:51	15:07:22.8	+38:25:00	300	89	3.0	#225	2	
0091.AT2018aab	1800	10:21	15:07:22.8	+38:25:00	300	89	3.0	#225	2	
0092.COMP	5	10:52	15:07:22.8	+38:25:00	300	89	3.0	0 Calibration	2	
0093.TCrB	15	10:54	15:59:30.0	+25:55:12	300	89	3.0	#12 Symbiotic	2	
0094.TCrB	60	10:55	15:59:30.0	+25:55:12	300	89	3.0	#12 Symbiotic	2	
0095.COMP	10	10:57	15:59:30.0	+25:55:12	300	89	3.0	0 Calibration	2	
0096.AGDra	2	11:00	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0097.AGDra	15	11:00	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	

UT Date 2018-04-11 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

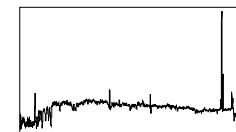
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0098.AGDra	60	11:00	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0099.COMP	10	11:02	16:01:41.0	+66:48:10	300	89	3.0	0 Calibration	2	
0100.AS210	5	11:06	16:51:20.3	-26:00:33	300	89	3.0	#12 Symbiotic	2	
0101.AS210	300	11:06	16:51:20.3	-26:00:33	300	89	3.0	#12 Symbiotic	2	
0102.COMP	10	11:11	16:51:20.3	-26:00:33	300	89	3.0	0 Calibration	2	
0103.Hen1341	12	11:13	17:08:36.0	-17:26:30	300	89	3.0	#12 Symbiotic	2	
0104.Hen1341	30	11:13	17:08:36.0	-17:26:30	300	89	3.0	#12 Symbiotic	2	
0105.Hen1341	60	11:14	17:08:36.0	-17:26:30	300	89	3.0	#12 Symbiotic	2	
0106.COMP	10	11:16	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	2	
0107.DracoC1	1200	11:18	17:19:58.0	+57:50:06	300	89	3.0	#12 Symbiotic	2	
0108.COMP	10	11:38	17:19:58.0	+57:50:06	300	88	3.0	0 Calibration	2	
0109.RSOph	10	11:41	17:50:13.0	-06:42:30	300	88	3.0	#12 Symbiotic	2	
0110.RSOph	60	11:41	17:50:13.0	-06:42:30	300	88	3.0	#12 Symbiotic	2	
0111.RSOph	150	11:42	17:50:13.0	-06:42:30	300	88	3.0	#12 Symbiotic	2	
0112.COMP	10	11:45	17:50:13.0	-06:42:30	300	89	3.0	0 Calibration	2	
0113.AS270	60	11:47	18:05:33.7	-20:20:38	300	89	3.0	#12 Symbiotic	2	
0114.AS270	300	11:48	18:05:33.7	-20:20:38	300	88	3.0	#12 Symbiotic	2	
0115.COMP	10	11:54	18:05:33.7	-20:20:38	300	89	3.0	0 Calibration	2	
0116.Hen1591	120	11:57	18:07:32.0	-25:53:43	300	89	3.0	#12 Symbiotic	2	
0117.Hen1591	300	11:59	18:07:32.0	-25:53:43	300	89	3.0	#12 Symbiotic	2	

UT Date 2018-04-11 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

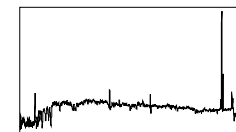
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0118.COMP	10	12:05	18:07:32.0	-25:53:43	300	89	3.0	0 Calibration	2	
0119.YYHer	10	12:07	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0120.YYHer	60	12:07	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0121.COMP	10	12:09	18:14:34.0	+20:59:19	300	89	3.0	0 Calibration	2	
0122.V443Her	5	12:10	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0123.V443Her	45	12:11	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0124.V443Her	90	12:12	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0125.COMP	10	12:14	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	
0126-0135.BIAS	0	12:17	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	
0136-0155.FLAT	7	12:23	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	
0156-0165.DARK	900	14:41	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	

UT Date 2018-04-12 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	01:34	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	4	
0006-0015.BIAS	0	01:54	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	4	
0016-0035.FLAT	7	02:05	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	
0036-0045.BIAS	0	02:06	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	
0046.HD84937	40	02:48	09:48:56.1	+13:44:39	300	89	3.0	#56 Spectropho	2	cnts too high, clouds, good seeing
0047.HD84937	20	02:49	09:48:56.1	+13:44:39	300	89	3.0	#56 Spectropho	2	
0048.COMP	10	02:50	09:48:56.1	+13:44:39	300	89	3.0	0 Calibration	2	
0049.Feige34	120	02:52	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	
0050.COMP	10	02:55	10:39:36.7	+43:06:09	300	85	3.0	0 Calibration	2	
0051.J095944	1800	03:32	09:59:44.1	+30:56:16	300	89	3.0	#227 Changing-	2	thick cirrus, wait till clring
0052.COMP	10	04:03	09:59:44.1	+30:56:16	300	88	3.0	0 Calibration	2	
0053.J095944	1800	04:39	09:59:44.1	+30:56:16	300	88	3.0	#227 Changing-	2	clouds finally mvd out
0054.J095944	1800	05:09	09:59:44.1	+30:56:16	300	88	3.0	#227 Changing-	2	
0055.J095944	1800	05:39	09:59:44.1	+30:56:16	300	88	3.0	#227 Changing-	2	
0056.COMP	10	06:10	09:59:44.1	+30:56:16	300	86	3.0	0 Calibration	2	
0057.sn2018aoz	300	06:13	11:51:01.8	-28:44:39	300	86	3.0	#2 SN Observat	2	
0058.COMP	10	06:19	11:51:01.8	-28:44:39	300	86	3.0	0 Calibration	2	
0059.N4853	600	06:21	12:58:35.2	+27:35:47	300	86	3.0	#57 Velocity S	2	
0060.COMP	10	06:31	12:58:35.2	+27:35:47	300	85	3.0	0 Calibration	2	
0061.snAT2018ast	1800	06:34	11:41:08.0	+24:49:11	300	85	3.0	#2 SN Observat	2	

UT Date 2018-04-12 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0062.COMP	10	07:05	11:41:08.0	+24:49:11	300	86	3.0	0 Calibration	2	
0063.sn2018aoq	600	07:07	12:10:38.2	+39:23:47	300	86	3.0	#2 SN Observat	2	
0064.COMP	10	07:18	12:10:38.2	+39:23:47	300	87	3.0	0 Calibration	2	
0065.sn2018are	1800	07:22	13:49:26.9	+26:27:43	300	1	3.0	#2 SN Observat	2	
0066.sn2018are	1800	07:52	13:49:26.9	+26:27:43	300	1	3.0	#2 SN Observat	2	
0067.sn2018are	1800	08:23	13:49:26.9	+26:27:43	300	1	3.0	#2 SN Observat	2	
0068.COMP	10	08:53	13:49:26.9	+26:27:43	300	1	3.0	0 Calibration	2	
0069.BRUTUS8218_13	1800	08:59	14:53:47.0	+72:35:50	300	90	3.0	#220 ASASSN Tr	2	
0070.COMP	10	09:29	14:53:47.0	+72:35:50	300	86	3.0	0 Calibration	2	
0071.PS17els	1800	09:33	16:20:35.0	+24:07:27	300	100	3.0	#225	2	
0072.PS17els	1800	10:03	16:20:35.0	+24:07:27	300	101	3.0	#225	2	
0073.PS17els	1800	10:34	16:20:35.0	+24:07:27	300	101	3.0	#225	2	
0074.COMP	10	11:04	16:20:35.0	+24:07:27	300	100	3.0	0 Calibration	2	
0075.snAT2018asz	1800	11:11	16:05:40.2	+15:35:31	300	90	3.0	#2 SN Observat	2	
0076.COMP	10	11:41	16:05:40.2	+15:35:31	300	90	3.0	0 Calibration	2	
0077.BDp262606	40	11:43	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0078.COMP	10	11:45	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0079.BDp332642	120	11:47	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0080.COMP	10	11:49	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0081.AS316	30	11:52	18:42:33.0	-21:17:47	300	90	3.0	#12 Symbiotic	2	

UT Date 2018-04-12 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0082.AS316	300	11:52	18:42:33.0	-21:17:47	300	90	3.0	#12 Symbiotic	2	
0083.COMP	10	11:58	18:42:33.0	-21:17:47	300	90	3.0	0 Calibration	2	
0084.AS327	30	11:59	18:53:17.0	-24:22:59	300	90	3.0	#12 Symbiotic	2	
0085.AS327	300	12:00	18:53:17.0	-24:22:59	300	90	3.0	#12 Symbiotic	2	
0086.COMP	10	12:05	18:53:17.0	-24:22:59	300	90	3.0	0 Calibration	2	
0087.V919Sgr	15	12:09	19:03:45.0	-16:59:56	300	90	3.0	#12 Symbiotic	2	
0088.V919Sgr	30	12:10	19:03:45.0	-16:59:56	300	90	3.0	#12 Symbiotic	2	
0089.V919Sgr	60	12:11	19:03:45.0	-16:59:56	300	90	3.0	#12 Symbiotic	2	
0090.COMP	10	12:12	19:03:45.0	-16:59:56	300	90	3.0	0 Calibration	2	
0091-0100.BIAS	0	12:17	19:03:45.0	-16:59:56	300	90	3.0	0 Calibration	2	
0101-0120.FLAT	7	12:24	19:03:45.0	-16:59:56	300	90	3.0	0 Calibration	2	
0121-0130.DARK	900	14:42	19:03:45.0	-16:59:56	300	90	3.0	0 Calibration	2	

UT Date 2018-04-13 Observers P BerlindColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	02:16	08:10:00.0	+32:00:00	300	90	3.0	0 Calibration	2	
0011-0016.FLAT	7	02:19	08:10:00.0	+32:00:00	300	90	3.0	0 Calibration	2	
0017.FLAT	7	02:19	08:10:00.0	+32:00:00	300	90	3.0	0 Calibration	2	tomorrow is Warrens night
0018.FLAT	7	02:19	08:10:00.0	+32:00:00	300	90	3.0	0 Calibration	2	2nd half when his targets are up
0019-0025.FLAT	7	02:22	08:10:00.0	+32:00:00	300	90	3.0	0 Calibration	2	
0026.AT2018ahn	30	02:48	08:24:09.4	+57:17:13	300	90	3.0	#225	2	
0027.AT2018ahn	1800	02:50	08:24:09.4	+57:17:13	300	90	3.0	#225	2	
0028.AT2018ahn	1800	03:20	08:24:09.4	+57:17:13	300	90	3.0	#225	2	
0029.COMP	10	03:52	08:24:09.4	+57:17:13	300	89	3.0	0 Calibration	2	
0030.HD84937	30	03:54	09:48:56.1	+13:44:39	300	89	3.0	#56 Spectropho	2	
0031.COMP	10	03:55	09:48:56.1	+13:44:39	300	89	3.0	0 Calibration	2	
0032.Feige34	180	03:57	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	
0033.COMP	10	04:03	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	
0034.J115026	1200	04:07	11:50:26.5	+01:59:28	300	89	3.0	#227 Changing-	2	
0035.J115026	1200	04:27	11:50:26.5	+01:59:28	300	89	3.0	#227 Changing-	2	
0036.J115026	1200	04:48	11:50:26.5	+01:59:28	300	89	3.0	#227 Changing-	2	
0037.COMP	10	05:09	11:50:26.5	+01:59:28	300	89	3.0	0 Calibration	2	
0038.sn2018aoq	1500	05:12	12:10:38.2	+39:23:47	300	89	3.0	#2 SN Observat	2	clouds
0039.COMP	10	05:54	12:10:38.2	+39:23:47	300	90	3.0	0 Calibration	2	
0040.sn2018aoz	361	05:56	11:51:01.8	-28:44:39	300	90	3.0	#2 SN Observat	2	

UT Date 2018-04-13 Observers P BerlindColl. Focus 1310 Grating/Grism 300

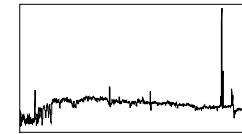
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0041.COMP	10	06:02	11:51:01.8	-28:44:39	300	90	3.0	0 Calibration	2	
0042.BRUTUS8218_13	900	10:33	14:53:47.0	+72:35:50	300	90	3.0	#220 ASASSN Tr	2	
0043.BRUTUS8218_13	900	10:49	14:53:47.0	+72:35:50	300	90	3.0	#220 ASASSN Tr	2	
0044.BRUTUS8218_13	900	11:04	14:53:47.0	+72:35:50	300	90	3.0	#220 ASASSN Tr	2	
0045.COMP	10	11:20	14:53:47.0	+72:35:50	300	90	3.0	0 Calibration	2	
0046.J161742	600	11:23	16:17:42.5	+32:22:34	300	90	3.0	#227 Changing-	2	redo this one with a redder tilt to get Halpha
0047.J161742	600	11:33	16:17:42.5	+32:22:34	300	90	3.0	#227 Changing-	2	
0048.J161742	600	11:43	16:17:42.5	+32:22:34	300	90	3.0	#227 Changing-	2	
0049.COMP	10	11:54	16:17:42.5	+32:22:34	300	90	3.0	0 Calibration	2	
0050.CHCyg	2	11:56	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0051.CHCyg	5	11:56	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0052.CHCyg	5	11:57	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0053.COMP	10	11:57	19:24:33.0	+50:14:30	300	90	3.0	0 Calibration	2	
0054.CICyg	5	11:59	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0055.CICyg	30	11:59	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0056.CICyg	90	12:00	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0057.COMP	10	12:02	19:50:12.0	+35:41:02	300	90	3.0	0 Calibration	2	
0058.BFCyg	30	12:04	19:23:53.0	+29:40:27	300	90	3.0	#12 Symbiotic	2	
0059.BFCyg	60	12:05	19:23:53.0	+29:40:27	300	90	3.0	#12 Symbiotic	2	
0060.COMP	10	12:06	19:23:53.0	+29:40:27	300	90	3.0	0 Calibration	2	

UT Date 2018-04-13 Observers P BerlindColl. Focus 1310 Grating/Grism 300

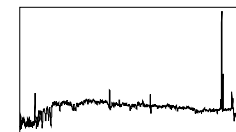
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0061-0070.BIAS	0	12:11	19:23:53.0	+29:40:27	300	90	3.0	0 Calibration	2	
0071-0085.FLAT	7	12:17	19:23:53.0	+29:40:27	300	90	3.0	0 Calibration	2	
0086-0089.DARK	1200	13:19	19:23:53.0	+29:40:27	300	90	3.0	0 Calibration	2	

UT Date 2018-04-14 Observers P BerlindColl. Focus 1310 Grating/Grism 300

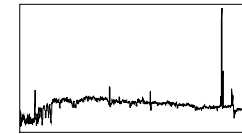
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	01:39	19:23:53.0	+29:40:27	300	90	3.0	0 Calibration	2	
0011-0025.FLAT	7	01:45	19:23:53.0	+29:40:27	300	90	3.0	0 Calibration	2	
0026.sky	4	02:00	08:00:00.0	+31:40:00	300	90	3.0	#57 Velocity S	2	clear
0027.sky	4	02:00	08:00:00.0	+31:40:00	300	90	3.0	#57 Velocity S	2	
0028-0030.sky	5	02:02	08:00:00.0	+31:40:00	300	90	3.0	#57 Velocity S	2	
0031.COMP	10	02:03	08:00:00.0	+31:40:00	300	90	3.0	0 Calibration	2	
0032.HD52071	3	02:46	07:00:58.2	+27:09:27	300	90	3.0	#57 Velocity S	2	
0033.HD52071	12	02:47	07:00:58.2	+27:09:27	300	90	3.0	#57 Velocity S	2	
0034.HD52071	12	02:48	07:00:58.2	+27:09:27	300	90	3.0	#57 Velocity S	2	
0035.COMP	10	02:48	07:00:58.2	+27:09:27	300	90	3.0	0 Calibration	2	
0036.HD84937	30	02:53	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0037.COMP	10	02:53	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0038.J072611.39+251845.6	900	02:58	07:26:11.4	+25:18:46	300	45	3.0	99 Blueberry g	2	
0039.J072611.39+251845.6	900	03:13	07:26:11.4	+25:18:46	300	45	3.0	99 Blueberry g	2	
0040.J072611.39+251845.6	900	03:28	07:26:11.4	+25:18:46	300	45	3.0	99 Blueberry g	2	
0041.COMP	10	03:44	07:26:11.4	+25:18:46	300	45	3.0	0 Calibration	2	
0042.J092705.12-013850.1	900	03:56	09:27:05.1	-01:38:50	300	38	3.0	99 Blueberry g	2	
0043.J092705.12-013850.1	900	04:11	09:27:05.1	-01:38:50	300	38	3.0	99 Blueberry g	2	
0044.J092705.12-013850.1	900	04:27	09:27:05.1	-01:38:50	300	38	3.0	99 Blueberry g	2	
0045.COMP	10	04:42	09:27:05.1	-01:38:50	300	38	3.0	0 Calibration	2	

UT Date 2018-04-14 Observers P BerlindColl. Focus 1310 Grating/Grism 300

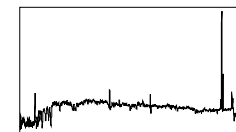
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0046.Feige34	180	04:46	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0047.COMP	10	04:50	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0048.BRUTUS8222_10	600	04:53	10:56:48.2	+05:51:42	300	90	3.0	#220 ASASSN Tr	2	no sn
0049.BRUTUS8222_10	600	05:03	10:56:48.2	+05:51:42	300	89	3.0	#220 ASASSN Tr	2	
0050.COMP	10	05:14	10:56:48.2	+05:51:42	300	89	3.0	0 Calibration	2	
0051.sn2018aoz	300	05:16	11:51:01.8	-28:44:39	300	89	3.0	#2 SN Observat	2	
0052.COMP	10	05:21	11:51:01.8	-28:44:39	300	89	3.0	0 Calibration	2	600-line
0053.COMP	10	05:26	11:52:43.1	+08:06:01	600	89	1.5	0 Calibration	4	
0054.bb915	240	05:28	12:04:18.8	-04:21:45	600	89	1.5	#178 Low Mass	4	
0055.COMP	10	05:33	12:04:18.8	-04:21:45	600	91	1.5	0 Calibration	4	
0056.bb925	60	05:34	12:15:05.6	-19:13:33	600	91	1.5	#178 Low Mass	4	
0057.COMP	10	05:35	12:15:05.6	-19:13:33	600	91	1.5	0 Calibration	4	
0058.bb928	300	05:36	12:21:11.5	-24:11:48	600	91	1.5	#178 Low Mass	4	
0059.COMP	10	05:42	12:21:11.5	-24:11:48	600	89	1.5	0 Calibration	4	
0060.bb930	1500	05:42	12:23:05.0	-25:41:01	600	89	1.5	#178 Low Mass	4	
0061.COMP	10	06:08	12:23:05.0	-25:41:01	600	89	1.5	0 Calibration	4	
0062.bb932	240	06:09	12:25:11.6	-29:57:19	600	89	1.5	#178 Low Mass	4	
0063.COMP	10	06:14	12:25:11.6	-29:57:19	600	89	1.5	0 Calibration	4	
0064.bb952	840	06:16	12:58:38.1	-25:26:09	600	89	1.5	#178 Low Mass	4	
0065.COMP	10	06:31	12:58:38.1	-25:26:09	600	89	1.5	0 Calibration	4	

UT Date 2018-04-14 Observers P BerlindColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.bb919	1800	06:32	12:08:24.6	-25:08:36	600	89	1.5	#178 Low Mass	4	
0067.COMP	10	07:03	12:08:24.6	-25:08:36	600	90	1.5	0 Calibration	4	
0068.bb981	900	07:05	13:23:12.3	-07:27:31	600	90	1.5	#178 Low Mass	4	
0069.COMP	10	07:21	13:23:12.3	-07:27:31	600	90	1.5	0 Calibration	4	
0070.bb986	900	07:22	13:29:49.4	-20:30:53	600	89	1.5	#178 Low Mass	4	
0071.COMP	10	07:38	13:29:49.4	-20:30:53	600	89	1.5	0 Calibration	4	
0072.bb1020	1800	07:40	14:06:00.6	-19:56:17	600	89	1.5	#178 Low Mass	4	
0073.COMP	10	08:10	14:06:00.6	-19:56:17	600	89	1.5	0 Calibration	4	
0074.bb1024	1200	08:12	14:08:56.8	-09:27:10	600	89	1.5	#178 Low Mass	4	
0075.COMP	10	08:33	14:08:56.8	-09:27:10	600	89	1.5	0 Calibration	4	
0076.bb1034	1500	08:35	14:16:05.0	-22:57:29	600	90	1.5	#178 Low Mass	4	
0077.COMP	10	09:00	14:16:05.0	-22:57:29	600	89	1.5	0 Calibration	4	
0078.bb1035	1800	09:02	14:16:15.1	-23:55:00	600	89	1.5	#178 Low Mass	4	
0079.COMP	10	09:33	14:16:15.1	-23:55:00	600	90	1.5	0 Calibration	4	
0080.bb1038	1500	09:35	14:22:03.9	-09:10:38	600	90	1.5	#178 Low Mass	4	
0081.COMP	10	10:00	14:22:03.9	-09:10:38	600	90	1.5	0 Calibration	4	
0082.bb1041	1200	10:02	14:28:36.7	-13:10:27	600	90	1.5	#178 Low Mass	4	
0083.COMP	10	10:22	14:28:36.7	-13:10:27	600	90	1.5	0 Calibration	4	
0084.bb1050	1440	10:24	14:43:29.2	-03:50:35	600	90	1.5	#178 Low Mass	4	
0085.COMP	10	10:49	14:43:29.2	-03:50:35	600	89	1.5	0 Calibration	4	

UT Date 2018-04-14 Observers P BerlindColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0086.bb1057	1800	10:50	15:03:13.6	-02:09:03	600	89	1.5	#178 Low Mass	4	
0087.COMP	10	11:21	15:03:13.6	-02:09:03	600	90	1.5	0 Calibration	4	
0088.bb1059	540	11:22	15:08:46.2	-01:55:14	600	90	1.5	#178 Low Mass	4	
0089.COMP	10	11:32	15:08:46.2	-01:55:14	600	90	1.5	0 Calibration	4	
0090.BDp332642	120	11:35	15:51:59.9	+32:56:54	600	90	1.5	#56 Spectropho	4	
0091.COMP	10	11:37	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0092-0106.FLAT	14	11:46	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0107-0116.BIAS	0	11:47	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0117.test	10	11:52	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0118.test	10	11:53	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0119-0123.DARK	900	12:58	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0124-0128.DARK	900	14:14	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	4	

UT Date 2018-04-15 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

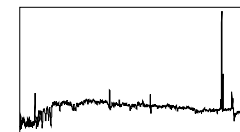
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0003.DARK	900	02:06	07:44:08.1	+31:30:34	300	90	3.0	0 Calibration	4	
0004-0013.BIAS	0	02:22	07:44:08.1	+31:30:34	300	90	3.0	0 Calibration	4	
0014-0033.FLAT	7	02:33	07:44:08.1	+31:30:34	300	90	3.0	0 Calibration	2	
0034-0043.BIAS	0	02:35	07:44:08.1	+31:30:34	300	90	3.0	0 Calibration	2	
0044.HD84937	20	02:44	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0045.COMP	10	02:45	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0046.Feige34	120	02:47	10:39:36.7	+43:06:09	300	88	3.0	#56 Spectropho	2	
0047.COMP	10	02:50	10:39:36.7	+43:06:09	300	88	3.0	0 Calibration	2	
0048.GITau	240	02:53	04:33:34.0	+24:21:18	300	89	3.0	#12 Symbiotic	2	
0049.COMP	10	02:57	04:33:34.0	+24:21:18	300	89	3.0	0 Calibration	2	
0050.GKTau	240	02:58	04:33:34.5	+24:21:07	300	89	3.0	#12 Symbiotic	2	
0051.COMP	10	03:03	04:33:34.5	+24:21:07	300	89	3.0	0 Calibration	2	
0052.J095942.88+002506.2	1800	03:16	09:59:42.9	+00:25:06	300	-29	3.0	99 Blueberry g	2	
0053.J095942.88+002506.2	1800	03:46	09:59:42.9	+00:25:06	300	-29	3.0	99 Blueberry g	2	
0054.J095942.88+002506.2	1800	04:16	09:59:42.9	+00:25:06	300	-29	3.0	99 Blueberry g	2	
0055.COMP	10	04:47	09:59:42.9	+00:25:06	300	-30	3.0	0 Calibration	2	
0056.J110509.28+044916.8	1800	04:53	11:05:09.3	+04:49:17	300	109	3.0	99 Blueberry g	2	
0057.J110509.28+044916.8	1800	05:24	11:05:09.3	+04:49:17	300	109	3.0	99 Blueberry g	2	
0058.J110509.28+044916.8	1800	05:54	11:05:09.3	+04:49:17	300	109	3.0	99 Blueberry g	2	
0059.COMP	10	06:25	11:05:09.3	+04:49:17	300	110	3.0	0 Calibration	2	

UT Date 2018-04-15 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0060.J132253.08-032801.1	1800	06:28	13:22:53.1	-03:28:01	300	42	3.0	99 Blueberry g	2	
0061.J132253.08-032801.1	1800	06:58	13:22:53.1	-03:28:01	300	42	3.0	99 Blueberry g	2	
0062.COMP	10	07:29	13:22:53.1	-03:28:01	300	42	3.0	0 Calibration	2	
0063.BRUTUS8223_3	1800	07:33	12:44:38.6	+06:18:04	300	89	3.0	#220 ASASSN Tr	2	
0064.COMP	10	08:03	12:44:38.6	+06:18:04	300	89	3.0	0 Calibration	2	
0065.BRUTUS8221_4	1200	08:06	13:27:57.5	-24:29:45	300	89	3.0	#220 ASASSN Tr	2	
0066.BRUTUS8221_4	1200	08:26	13:27:57.5	-24:29:45	300	89	3.0	#220 ASASSN Tr	2	
0067.BRUTUS8221_4	1200	08:46	13:27:57.5	-24:29:45	300	89	3.0	#220 ASASSN Tr	2	
0068.COMP	10	09:07	13:27:57.5	-24:29:45	300	89	3.0	0 Calibration	2	
0069.J130947	900	09:10	13:09:47.0	+08:19:48	300	90	3.0	#227 Changing-	2	
0070.J130947	900	09:25	13:09:47.0	+08:19:48	300	90	3.0	#227 Changing-	2	
0071.COMP	10	09:41	13:09:47.0	+08:19:48	300	89	3.0	0 Calibration	2	
0072.snAT2018auj	1800	09:46	14:53:47.0	+72:35:53	300	89	3.0	#2 SN Observat	2	
0073.COMP	10	10:16	14:53:47.0	+72:35:53	300	88	3.0	0 Calibration	2	
0074.J171902	900	10:20	17:19:02.3	+59:37:16	300	88	3.0	#227 Changing-	2	
0075.J171902	900	10:35	17:19:02.3	+59:37:16	300	88	3.0	#227 Changing-	2	
0076.J171902	900	10:50	17:19:02.3	+59:37:16	300	88	3.0	#227 Changing-	2	
0077.COMP	10	11:05	17:19:02.3	+59:37:16	300	89	3.0	0 Calibration	2	
0078.J161742	900	11:09	16:17:42.5	+32:22:34	300	89	3.0	#227 Changing-	2	red tilt for H-alpha
0079.J161742	900	11:24	16:17:42.5	+32:22:34	300	89	3.0	#227 Changing-	2	

UT Date 2018-04-15 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0080.J161742	900	11:39	16:17:42.5	+32:22:34	300	89	3.0	#227 Changing-	2	
0081.COMP	10	11:58	16:17:42.5	+32:22:34	300	88	3.0	0 Calibration	2	
0082.BDp262606	60	11:59	14:49:02.4	+25:42:09	300	88	3.0	#56 Spectropho	2	
0083.COMP	10	12:01	14:49:02.4	+25:42:09	300	88	3.0	0 Calibration	2	
0084.BDp332642	120	12:02	15:51:59.9	+32:56:54	300	88	3.0	#56 Spectropho	2	
0085.COMP	10	12:05	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0086-0105.FLAT	7	12:12	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0106-0115.BIAS	0	12:13	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0116-0125.DARK	900	14:33	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	

UT Date 2018-04-16 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:11	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	4	
0011-0020.BIAS	0	01:39	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	4	
0021-0040.FLAT	7	01:51	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0041-0050.BIAS	0	01:53	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0051.Feige34	150	02:46	10:39:36.7	+43:06:09	300	88	3.0	#56 Spectropho	2	
0052.COMP	10	02:49	10:39:36.7	+43:06:09	300	88	3.0	0 Calibration	2	
0053.HD84937	24	02:52	09:48:56.1	+13:44:39	300	88	3.0	#56 Spectropho	2	
0054.COMP	10	02:53	09:48:56.1	+13:44:39	300	88	3.0	0 Calibration	2	
0055.N3377	300	02:55	10:47:42.4	+13:59:08	300	88	3.0	#57 Velocity S	2	
0056.COMP	10	03:00	10:47:42.4	+13:59:08	300	89	3.0	0 Calibration	2	
0057.snAT2018gv	1800	03:03	08:05:34.6	-11:26:16	300	89	3.0	#2 SN Observat	2	
0058.COMP	10	03:33	08:05:34.6	-11:26:16	300	89	3.0	0 Calibration	2	
0059.sn2018oh	1800	03:36	09:06:39.5	+19:20:18	300	89	3.0	#2 SN Observat	2	
0060.COMP	10	04:06	09:06:39.5	+19:20:18	300	89	3.0	0 Calibration	2	
0061.J115026	1500	04:11	11:50:26.5	+01:59:28	300	89	3.0	#227 Changing-	2	
0062.J115026	1500	04:36	11:50:26.5	+01:59:28	300	89	3.0	#227 Changing-	2	
0063.J115026	1500	05:01	11:50:26.5	+01:59:28	300	89	3.0	#227 Changing-	2	
0064.COMP	10	05:27	11:50:26.5	+01:59:28	300	90	3.0	0 Calibration	2	
0065.bb896	950	05:35	11:47:24.1	-24:13:17	600	90	1.5	#178 Low Mass	4	
0066.COMP	10	05:52	11:47:24.1	-24:13:17	600	89	1.5	0 Calibration	4	

UT Date 2018-04-16 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.bb905	1044	05:53	11:56:00.4	-29:29:00	600	89	1.5	#178 Low Mass	4	
0068.COMP	10	06:11	11:56:00.4	-29:29:00	600	90	1.5	0 Calibration	4	
0069.bb906	1375	06:12	11:56:12.1	-29:31:55	600	90	1.5	#178 Low Mass	4	
0070.COMP	10	06:36	11:56:12.1	-29:31:55	600	89	1.5	0 Calibration	4	
0071.bb908	1103	06:37	11:56:18.4	-29:19:32	600	89	1.5	#178 Low Mass	4	
0072.COMP	10	06:56	11:56:18.4	-29:19:32	600	89	1.5	0 Calibration	4	
0073.bb910	1200	07:00	11:56:36.9	-16:50:11	600	89	1.5	#178 Low Mass	4	
0074.COMP	10	07:38	11:56:36.9	-16:50:11	600	90	1.5	0 Calibration	4	
0075.bb955	1230	08:00	13:02:37.2	-10:15:54	600	80	1.5	#178 Low Mass	4	
0076.COMP	10	08:21	13:02:37.2	-10:15:54	600	80	1.5	0 Calibration	4	
0077.bb960	480	08:22	13:07:14.6	-13:23:45	600	80	1.5	#178 Low Mass	4	
0078.COMP	10	08:31	13:07:14.6	-13:23:45	600	80	1.5	0 Calibration	4	
0079.bb961	207	08:33	13:09:08.8	-12:39:40	600	90	1.5	#178 Low Mass	4	
0080.COMP	10	08:37	13:09:08.8	-12:39:40	600	89	1.5	0 Calibration	4	
0081.bb962	781	08:50	13:11:44.2	-29:48:25	600	89	1.5	#178 Low Mass	4	
0082.COMP	10	09:03	13:11:44.2	-29:48:25	600	89	1.5	0 Calibration	4	
0083.bb988	429	09:07	13:32:05.0	-20:03:19	600	89	1.5	#178 Low Mass	4	
0084.COMP	10	09:18	13:32:05.0	-20:03:19	600	90	1.5	0 Calibration	4	
0085.bb989	250	09:32	13:33:16.6	-27:41:12	600	90	1.5	#178 Low Mass	4	
0086.COMP	10	09:36	13:33:16.6	-27:41:12	600	90	1.5	0 Calibration	4	

UT Date 2018-04-16 Observers M CalkinsColl. Focus 1310 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.COMP	10	09:44	15:57:44.3	+31:30:39	600	89	1.5	0 Calibration	4	test
0088.j1648m09	1063	09:49	16:48:30.5	-09:18:21	600	89	1.5	#178 Low Mass	4	
0089.COMP	10	10:07	16:48:30.5	-09:18:21	600	89	1.5	0 Calibration	4	
0090.j1654m08	1200	10:09	16:54:11.9	-08:53:05	600	89	1.5	#178 Low Mass	4	
0091.COMP	10	10:30	16:54:11.9	-08:53:05	600	90	1.5	0 Calibration	4	
0092.j1650p52	900	10:33	16:50:39.6	+52:07:34	600	90	1.5	#178 Low Mass	4	
0093.COMP	10	10:49	16:50:39.6	+52:07:34	600	85	1.5	0 Calibration	4	
0094.BDp332642	150	10:50	15:51:59.9	+32:56:54	600	85	1.5	#56 Spectropho	4	
0095.COMP	10	10:53	15:51:59.9	+32:56:54	600	87	1.5	0 Calibration	4	
0096.j1700p27	744	11:01	17:00:14.1	+27:12:37	600	90	1.5	#178 Low Mass	4	
0097.COMP	10	11:14	17:00:14.1	+27:12:37	600	90	1.5	0 Calibration	4	
0098.j1702m02	1601	11:17	17:02:39.1	-02:58:51	600	90	1.5	#178 Low Mass	4	
0099.COMP	10	11:44	17:02:39.1	-02:58:51	600	90	1.5	0 Calibration	4	
0100.j1812p12	800	11:46	18:12:21.6	+12:26:51	600	90	1.5	#178 Low Mass	4	
0101.COMP	10	12:01	18:12:21.6	+12:26:51	600	90	1.5	0 Calibration	4	
0102-0111.BIAS	0	12:05	18:12:21.6	+12:26:51	600	90	1.5	0 Calibration	4	
0112-0131.FLAT	12	12:13	18:12:21.6	+12:26:51	600	90	1.5	0 Calibration	4	
0132-0141.BIAS	0	12:34	18:12:21.6	+12:26:51	300	90	3.0	0 Calibration	2	
0142-0151.DARK	900	14:53	18:12:21.6	+12:26:51	300	90	3.0	0 Calibration	2	