

UT Date 2018-09-05 Observers M CalkinsColl. Focus 1320 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	02:00	16:23:51.0	+31:30:12	300	88	3.0	0 Calibration	4	
0006-0015.BIAS	0	02:24	16:23:51.0	+31:30:12	300	88	3.0	0 Calibration	4	
0016-0035.FLAT	7	02:34	16:23:51.0	+31:30:12	300	88	3.0	0 Calibration	2	
0036-0045.BIAS	0	02:36	16:23:51.0	+31:30:12	300	88	3.0	0 Calibration	2	
0046.TCrB	15	02:45	15:59:30.0	+25:55:12	300	88	3.0	#12 Symbiotic	2	
0047.TCrB	60	02:45	15:59:30.0	+25:55:12	300	88	3.0	#12 Symbiotic	2	
0048.COMP	10	02:47	15:59:30.0	+25:55:12	300	88	3.0	0 Calibration	2	
0049.AGDra	2	02:51	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0050.AGDra	15	02:51	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0051.AGDra	60	02:52	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0052.COMP	10	02:53	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0053.BDp262606	60	03:04	14:49:02.4	+25:42:09	300	88	3.0	#56 Spectropho	2	
0054.COMP	10	03:06	14:49:02.4	+25:42:09	300	88	3.0	0 Calibration	2	
0055.BDp332642	120	03:10	15:51:59.9	+32:56:54	300	88	3.0	#56 Spectropho	2	
0056.COMP	10	03:13	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0057.AS210	5	03:17	16:51:20.3	-26:00:33	300	89	3.0	#12 Symbiotic	2	
0058.AS210	300	03:22	16:51:20.3	-26:00:33	300	88	3.0	#12 Symbiotic	2	
0059.COMP	10	03:28	16:51:20.3	-26:00:33	300	88	3.0	0 Calibration	2	
0060.Hen1341	12	03:31	17:08:36.0	-17:26:30	300	88	3.0	#12 Symbiotic	2	
0061.Hen1341	30	03:32	17:08:36.0	-17:26:30	300	88	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0062.Hen1341	60	03:32	17:08:36.0	-17:26:30	300	88	3.0	#12 Symbiotic	2	
0063.COMP	10	03:34	17:08:36.0	-17:26:30	300	88	3.0	0 Calibration	2	
0064.DracoC1	1200	03:38	17:19:58.0	+57:50:06	300	88	3.0	#12 Symbiotic	2	
0065.COMP	10	03:58	17:19:58.0	+57:50:06	300	90	3.0	0 Calibration	2	
0066.Hen1591	120	04:02	18:07:32.0	-25:53:43	300	88	3.0	#12 Symbiotic	2	
0067.Hen1591	300	04:05	18:07:32.0	-25:53:43	300	88	3.0	#12 Symbiotic	2	
0068.COMP	10	04:10	18:07:32.0	-25:53:43	300	87	3.0	0 Calibration	2	
0069.M31	60	08:38	00:42:44.3	+41:16:09	300	87	3.0	#57 Velocity S	2	
0070.COMP	10	08:40	00:42:44.3	+41:16:09	300	87	3.0	0 Calibration	2	
0071.BDp284211	120	08:41	21:51:11.0	+28:51:50	300	87	3.0	#56 Spectropho	2	
0072.COMP	10	08:44	21:51:11.0	+28:51:50	300	86	3.0	0 Calibration	2	
0073.BDp174708	60	08:45	22:11:31.4	+18:05:34	300	86	3.0	#56 Spectropho	2	
0074.COMP	10	08:47	22:11:31.4	+18:05:34	300	87	3.0	0 Calibration	2	
0075.BRUTUS8366_3	1800	09:02	23:28:03.8	+09:46:13	300	90	3.0	#99 Falco	2	
0076.COMP	10	09:33	23:28:03.8	+09:46:13	300	90	3.0	0 Calibration	2	
0077.Feige110	240	09:39	23:19:58.4	-05:09:56	600	90	1.5	#56 Spectropho	4	
0078.COMP	10	09:44	23:19:58.4	-05:09:56	600	89	1.5	0 Calibration	4	
0079.j2325p20	1500	09:46	23:25:44.6	+20:31:45	600	89	1.5	#178 Low Mass	4	
0080.COMP	10	10:11	23:25:44.6	+20:31:45	600	90	1.5	0 Calibration	4	
0081.j2325p50	1600	10:14	23:25:48.6	+50:14:31	600	90	1.5	#178 Low Mass	4	

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<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>
0082.COMP	10	10:43	23:25:48.6	+50:14:31	600	90	1.5	0 Calibration	4	
0083.j2348p13	1300	10:46	23:48:57.3	+13:20:32	600	90	1.5	#178 Low Mass	4	
0084.COMP	10	11:08	23:48:57.3	+13:20:32	600	90	1.5	0 Calibration	4	
0085.j0018m06	1300	11:10	00:18:58.7	-06:28:18	600	90	1.5	#178 Low Mass	4	
0086.COMP	10	11:32	00:18:58.7	-06:28:18	600	90	1.5	0 Calibration	4	
0087.j0151m15	1700	11:34	01:51:32.5	-15:12:31	600	90	1.5	#178 Low Mass	4	
0088.COMP	10	12:03	01:51:32.5	-15:12:31	600	90	1.5	0 Calibration	4	
0089-0108.FLAT	12	12:10	01:51:32.5	-15:12:31	600	90	1.5	0 Calibration	4	
0109-0118.BIAS	0	12:16	01:51:32.5	-15:12:31	600	90	1.5	0 Calibration	4	
0119-0128.DARK	900	14:39	01:51:32.5	-15:12:31	600	90	1.5	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	01:47	01:51:32.5	-15:12:31	600	90	1.5	0 Calibration	2	
0011-0020.FLAT	12	01:51	01:51:32.5	-15:12:31	600	90	1.5	0 Calibration	4	
0021-0030.BIAS	0	01:54	01:51:32.5	-15:12:31	600	90	1.5	0 Calibration	4	
0031.BDp332642	150	02:56	15:51:59.9	+32:56:54	600	90	1.5	#56 Spectropho	4	
0032.COMP	10	02:59	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0033.gaia29	127	03:04	18:15:33.3	+22:24:51	600	90	1.5	#178 Low Mass	4	
0034.COMP	10	03:06	18:15:33.3	+22:24:51	600	90	1.5	0 Calibration	4	
0035.gaia30	150	03:10	18:15:50.1	+47:16:53	600	90	1.5	#178 Low Mass	4	
0036.COMP	10	03:14	18:15:50.1	+47:16:53	600	89	1.5	0 Calibration	4	
0037.gaia31	259	03:17	18:29:40.9	+72:59:39	600	87	1.5	#178 Low Mass	4	
0038.COMP	10	03:22	18:29:40.9	+72:59:39	600	88	1.5	0 Calibration	4	
0039.gaia32	100	03:24	18:33:47.4	+23:07:00	600	88	1.5	#178 Low Mass	4	
0040.COMP	10	03:26	18:33:47.4	+23:07:00	600	88	1.5	0 Calibration	4	
0041.gaia33	133	03:28	18:37:02.6	+57:30:23	600	88	1.5	#178 Low Mass	4	
0042.COMP	10	03:31	18:37:02.6	+57:30:23	600	83	1.5	0 Calibration	4	
0043.gaia34	261	03:32	19:13:29.6	+42:04:58	600	83	1.5	#178 Low Mass	4	
0044.COMP	10	03:37	19:13:29.6	+42:04:58	600	84	1.5	0 Calibration	4	
0045.gaia35	200	03:39	19:55:16.4	+16:25:03	600	84	1.5	#178 Low Mass	4	
0046.COMP	10	03:43	19:55:16.4	+16:25:03	600	89	1.5	0 Calibration	4	
0047.j2049p26	1066	03:53	20:49:23.0	+26:25:18	600	100	1.5	#178 Low Mass	4	

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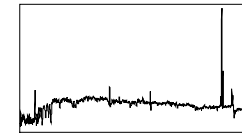
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0048.COMP	10	04:11	20:49:23.0	+26:25:18	600	100	1.5	0 Calibration	4	
0049.j2051p54	1170	04:14	20:51:00.3	+54:50:36	600	90	1.5	#178 Low Mass	4	
0050.COMP	10	04:35	20:51:00.3	+54:50:36	600	90	1.5	0 Calibration	4	
0051.j2049m00	1150	04:38	20:49:46.9	-00:49:01	600	76	1.5	#178 Low Mass	4	
0052.COMP	10	04:58	20:49:46.9	-00:49:01	600	75	1.5	0 Calibration	4	
0053.j2053m01	1500	05:07	20:53:21.5	-01:17:10	600	89	1.5	#178 Low Mass	4	
0054.COMP	10	05:33	20:53:21.5	-01:17:10	600	90	1.5	0 Calibration	4	
0055.j2053p42	911	05:36	20:53:47.1	+42:03:51	600	90	1.5	#178 Low Mass	4	
0056.COMP	10	05:52	20:53:47.1	+42:03:51	600	91	1.5	0 Calibration	4	
0057.j2055p10	1020	05:54	20:55:26.6	+10:25:37	600	91	1.5	#178 Low Mass	4	
0058.COMP	10	06:12	20:55:26.6	+10:25:37	600	90	1.5	0 Calibration	4	
0059.j2056p06	1400	06:14	20:56:50.6	+06:21:49	600	90	1.5	#178 Low Mass	4	
0060.COMP	10	06:37	20:56:50.6	+06:21:49	600	90	1.5	0 Calibration	4	
0061.j2057p09	1089	06:39	20:57:06.6	+09:53:37	600	90	1.5	#178 Low Mass	4	
0062.COMP	10	06:58	20:57:06.6	+09:53:37	600	90	1.5	0 Calibration	4	
0063.j2133p24	832	07:00	21:33:52.8	+24:27:48	600	90	1.5	#178 Low Mass	4	
0064.COMP	10	07:14	21:33:52.8	+24:27:48	600	90	1.5	0 Calibration	4	
0065.j2135p24	1316	07:16	21:35:16.9	+24:39:45	600	90	1.5	#178 Low Mass	4	
0066.COMP	10	07:39	21:35:16.9	+24:39:45	600	90	1.5	0 Calibration	4	
0067.j2135p05	1400	07:41	21:35:40.7	+05:05:13	600	90	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0068.COMP	10	08:05	21:35:40.7	+05:05:13	600	90	1.5	0 Calibration	4	
0069.j2136p07	1700	08:06	21:36:27.6	+07:40:26	600	90	1.5	#178 Low Mass	4	
0070.COMP	10	08:35	21:36:27.6	+07:40:26	600	90	1.5	0 Calibration	4	
0071.j2349m06	1500	08:37	23:49:55.6	-06:16:04	600	90	1.5	#178 Low Mass	4	
0072.COMP	10	09:02	23:49:55.6	-06:16:04	600	90	1.5	0 Calibration	4	
0073.PS16dtm	1800	09:25	01:58:04.7	-00:52:22	300	90	3.0	#225	2	
0074.PS16dtm	1800	09:55	01:58:04.7	-00:52:22	300	90	3.0	#225	2	
0075.PS16dtm	1800	10:25	01:58:04.7	-00:52:22	300	90	3.0	#225	2	
0076.COMP	10	10:56	01:58:04.7	-00:52:22	300	90	3.0	0 Calibration	2	
0077.snAT2018ftn	900	10:57	01:25:17.9	+09:39:01	300	90	3.0	#2 SN Observat	2	
0078.COMP	10	11:13	01:25:17.9	+09:39:01	300	90	3.0	0 Calibration	2	
0079.ZAnd	1	11:19	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0080.ZAnd	5	11:19	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0081.ZAnd	30	11:20	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0082.COMP	10	11:21	23:33:40.0	+48:49:06	300	90	3.0	0 Calibration	2	
0083.RAqr	1	11:23	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0084.RAqr	5	11:23	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0085.RAqr	10	11:23	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0086.COMP	10	11:24	23:43:49.0	-15:17:05	300	90	3.0	0 Calibration	2	
0087.EGAnd	1	11:26	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0088.EGAnd	5	11:26	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0089.EGAnd	10	11:27	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0090.COMP	10	11:27	00:44:37.0	+40:40:47	300	90	3.0	0 Calibration	2	
0091.AXPer	4	11:30	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0092.AXPer	30	11:31	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0093.AXPer	90	11:31	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0094.COMP	10	11:33	01:36:23.0	+54:15:03	300	90	3.0	0 Calibration	2	
0095.sn2018djd	1200	11:39	02:14:34.0	-00:45:56	300	90	3.0	#2 SN Observat	2	
0096.COMP	10	12:00	02:14:34.0	-00:45:56	300	90	3.0	0 Calibration	2	
0097.HD19445	10	12:02	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0098.COMP	10	12:02	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	
0099.G191B2B	300	12:05	05:05:30.6	+52:49:52	300	90	3.0	#56 Spectropho	2	
0100.COMP	10	12:10	05:05:30.6	+52:49:52	300	89	3.0	0 Calibration	2	
0101.NGC1700	300	12:12	04:56:56.3	-04:51:57	300	89	3.0	#57 Velocity S	2	
0102.COMP	10	12:18	04:56:56.3	-04:51:57	300	89	3.0	0 Calibration	2	
0103-0112.BIAS	0	12:23	04:56:56.3	-04:51:57	300	89	3.0	0 Calibration	2	
0113-0132.FLAT	7	12:30	04:56:56.3	-04:51:57	300	89	3.0	0 Calibration	2	
0133-0137.DARK	900	13:32	04:56:56.3	-04:51:57	300	89	3.0	0 Calibration	4	
0138-0142.DARK	900	14:48	04:56:56.3	-04:51:57	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	02:03	15:06:29.5	+55:45:48	300	89	3.0	0 Calibration	2	
0011-0025.FLAT	7	02:09	15:06:29.5	+55:45:48	300	89	3.0	0 Calibration	2	
0026.BDp332642	120	02:39	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0027.COMP	10	02:41	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0028.sn2018epf	1500	02:44	16:50:31.7	+43:03:27	300	89	3.0	#2 SN Observat	2	star no sn
0029.COMP	10	03:11	16:50:31.7	+43:03:27	300	90	3.0	0 Calibration	2	
0030.sn2018feb	746	03:13	17:10:11.2	+21:38:57	300	90	3.0	#2 SN Observat	2	
0031.COMP	10	03:40	17:10:11.2	+21:38:57	300	89	3.0	0 Calibration	2	
0032.FLAT	12	03:53	19:58:13.8	+32:33:18	600	89	1.5	0 Calibration	4	600-line, 1.5-sec, 445 blue
0033-0046.FLAT	12	03:57	19:58:13.8	+32:33:18	600	89	1.5	0 Calibration	4	
0047.j2059p23	840	04:01	20:59:04.8	+23:20:16	600	46	1.5	#178 Low Mass	4	
0048.COMP	10	04:16	20:59:04.8	+23:20:16	600	46	1.5	0 Calibration	4	
0049.j2059p25	1800	04:19	20:59:04.5	+25:23:34	600	91	1.5	#178 Low Mass	4	
0050.COMP	10	04:50	20:59:04.5	+25:23:34	600	90	1.5	0 Calibration	4	
0051.j2058p15	1800	04:51	20:58:26.2	+15:17:41	600	90	1.5	#178 Low Mass	4	
0052.COMP	10	05:23	20:58:26.2	+15:17:41	600	89	1.5	0 Calibration	4	
0053.j2100p09	1800	05:24	21:00:39.2	+09:05:38	600	89	1.5	#178 Low Mass	4	
0054.COMP	10	05:55	21:00:39.2	+09:05:38	600	89	1.5	0 Calibration	4	
0055.j2122m10	1500	05:57	21:22:32.1	-10:47:02	600	89	1.5	#178 Low Mass	4	
0056.COMP	10	06:28	21:22:32.1	-10:47:02	600	90	1.5	0 Calibration	4	



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0057.j2123m04	1800	06:31	21:23:43.0	-04:34:40	600	90	1.5	#178 Low Mass	4	
0058.COMP	10	07:01	21:23:43.0	-04:34:40	600	90	1.5	0 Calibration	4	
0059.j2127p02	1800	07:02	21:27:47.8	+02:31:06	600	90	1.5	#178 Low Mass	4	
0060.COMP	10	07:33	21:27:47.8	+02:31:06	600	89	1.5	0 Calibration	4	
0061.j2129p24	1560	07:38	21:29:36.4	+24:42:47	600	89	1.5	#178 Low Mass	4	
0062.COMP	10	08:11	21:29:36.4	+24:42:47	600	90	1.5	0 Calibration	4	
0063.j2130p24	1800	08:13	21:30:07.1	+24:38:34	600	90	1.5	#178 Low Mass	4	
0064.COMP	10	08:44	21:30:07.1	+24:38:34	600	90	1.5	0 Calibration	4	
0065.j2147p22	1800	09:14	21:47:54.7	+22:45:36	600	90	1.5	#178 Low Mass	4	
0066.COMP	10	09:45	21:47:54.7	+22:45:36	600	90	1.5	0 Calibration	4	
0067.j2225p25	1800	09:47	22:25:31.1	+25:21:48	600	90	1.5	#178 Low Mass	4	
0068.COMP	10	10:18	22:25:31.1	+25:21:48	600	89	1.5	0 Calibration	4	
0069.j2233p17	1800	10:23	22:33:54.3	+17:35:43	600	89	1.5	#178 Low Mass	4	
0070.COMP	10	10:54	22:33:54.3	+17:35:43	600	89	1.5	0 Calibration	4	
0071.j0031p27	1800	10:59	00:31:56.8	+27:44:33	600	90	1.5	#178 Low Mass	4	
0072.COMP	10	11:29	00:31:56.8	+27:44:33	600	90	1.5	0 Calibration	4	
0073.j0033p10	1800	11:31	00:33:51.0	+10:21:39	600	90	1.5	#178 Low Mass	4	
0074.COMP	10	12:02	00:33:51.0	+10:21:39	600	90	1.5	0 Calibration	4	
0075.G191B2B	240	12:04	05:05:30.6	+52:49:52	600	90	1.5	#56 Spectropho	4	
0076.COMP	10	12:09	05:05:30.6	+52:49:52	600	89	1.5	0 Calibration	4	

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<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>
0077-0086.BIAS	0	12:20	05:05:30.6	+52:49:52	600	89	1.5	0 Calibration	4	
0087-0091.DARK	900	13:22	05:05:30.6	+52:49:52	600	89	1.5	0 Calibration	2	
0092-0096.DARK	900	14:38	05:05:30.6	+52:49:52	600	89	1.5	0 Calibration	4	

UT Date 2018-09-08 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	01:56	05:05:30.6	+52:49:52	600	89	1.5	0 Calibration	4	
0011.FLAT	12	02:06	17:50:00.0	+32:00:00	600	89	1.5	0 Calibration	4	600-line
0012-0025.FLAT	12	02:10	17:50:00.0	+32:00:00	600	89	1.5	0 Calibration	4	
0026.j2103p17	660	02:36	21:03:05.4	+17:22:34	600	75	1.5	#178 Low Mass	4	
0027.COMP	10	02:48	21:03:05.4	+17:22:34	600	75	1.5	0 Calibration	4	
0028.j2111p20	660	02:52	21:11:24.1	+20:45:14	600	56	1.5	#178 Low Mass	4	
0029.COMP	10	03:04	21:11:24.1	+20:45:14	600	55	1.5	0 Calibration	4	
0030.j2130m03	1800	03:09	21:30:29.7	-03:00:54	600	55	1.5	#178 Low Mass	4	
0031.COMP	10	03:40	21:30:29.7	-03:00:54	600	55	1.5	0 Calibration	4	
0032.j2139m07	1500	03:43	21:39:58.3	-07:41:26	600	55	1.5	#178 Low Mass	4	
0033.COMP	10	04:08	21:39:58.3	-07:41:26	600	55	1.5	0 Calibration	4	
0034.j2151m05	660	04:11	21:51:43.4	-05:02:48	600	55	1.5	#178 Low Mass	4	
0035.COMP	10	04:23	21:51:43.4	-05:02:48	600	54	1.5	0 Calibration	4	
0036.j2152m06	1800	04:26	21:52:20.4	-06:12:21	600	54	1.5	#178 Low Mass	4	
0037.COMP	10	04:57	21:52:20.4	-06:12:21	600	55	1.5	0 Calibration	4	
0038.j2153m02	1800	04:59	21:53:27.5	-02:23:35	600	55	1.5	#178 Low Mass	4	
0039.COMP	10	05:29	21:53:27.5	-02:23:35	600	55	1.5	0 Calibration	4	
0040.j2158m06	1800	05:31	21:58:32.1	-06:14:16	600	55	1.5	#178 Low Mass	4	
0041.COMP	10	06:02	21:58:32.1	-06:14:16	600	55	1.5	0 Calibration	4	
0042.j2218m07	1500	06:24	22:18:51.6	-07:22:55	600	55	1.5	#178 Low Mass	4	

UT Date 2018-09-08 Observers P BerlindColl. Focus 1320 Grating/Grism 300

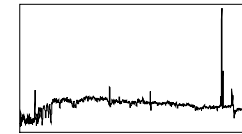
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0043.COMP	10	06:49	22:18:51.6	-07:22:55	600	56	1.5	0 Calibration	4	
0044.BDp284211	150	06:51	21:51:11.0	+28:51:50	600	56	1.5	#56 Spectropho	4	
0045.COMP	10	06:54	21:51:11.0	+28:51:50	600	56	1.5	0 Calibration	4	
0046.j2230p37	1800	06:55	22:30:52.0	+37:14:18	600	55	1.5	#178 Low Mass	4	
0047.COMP	10	07:26	22:30:52.0	+37:14:18	600	55	1.5	0 Calibration	4	
0048.j2324p10	1800	07:28	23:24:32.8	+10:08:52	600	55	1.5	#178 Low Mass	4	
0049.COMP	10	07:59	23:24:32.8	+10:08:52	600	55	1.5	0 Calibration	4	
0050.j2347m07	1800	08:03	23:47:35.7	-07:11:34	600	90	1.5	#178 Low Mass	4	
0051.COMP	10	08:34	23:47:35.7	-07:11:34	600	90	1.5	0 Calibration	4	
0052.test	10	08:40	01:00:00.0	+32:00:00	300	90	3.0	#178 Low Mass	2	
0053.test	10	08:42	01:00:00.0	+32:00:00	300	90	3.0	#178 Low Mass	2	
0058.BDp284211	150	08:57	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	300-line
0059.COMP	10	09:00	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0060.BDp174708	90	09:01	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0061.COMP	10	09:04	22:11:31.4	+18:05:34	300	90	3.0	0 Calibration	2	
0062.BRUTUS8368_3	600	09:06	01:15:10.2	-18:11:00	300	90	3.0	#99 Falco	2	
0063.BRUTUS8368_3	600	09:16	01:15:10.2	-18:11:00	300	90	3.0	#99 Falco	2	
0064.BRUTUS8368_3	600	09:26	01:15:10.2	-18:11:00	300	90	3.0	#99 Falco	2	
0065.COMP	10	09:37	01:15:10.2	-18:11:00	300	90	3.0	0 Calibration	2	
0067.sn2018eqq	1200	10:01	03:06:55.2	+41:30:33	300	90	3.0	#2 SN Observat	2	

UT Date 2018-09-08 Observers P BerlindColl. Focus 1320 Grating/Grism 300

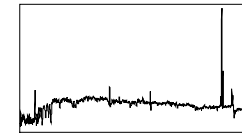
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0068.COMP	10	10:22	03:06:55.2	+41:30:33	300	90	3.0	0 Calibration	2	
0069.2M00402126+6732350	1800	10:28	00:40:21.3	+67:32:35	300	86	3.0	#141 2MASS Red	2	weak. no emission.
0070.COMP	10	10:59	00:40:21.3	+67:32:35	300	86	3.0	0 Calibration	2	
0071.BRUTUS8368_4	720	11:04	04:29:31.0	-11:01:51	300	88	3.0	#99 Falco	2	
0072.BRUTUS8368_4	720	11:35	04:29:31.0	-11:01:51	300	88	3.0	#99 Falco	2	
0073.BRUTUS8368_4	720	11:47	04:29:31.0	-11:01:51	300	88	3.0	#99 Falco	2	
0074.COMP	10	11:59	04:29:31.0	-11:01:51	300	90	3.0	0 Calibration	2	
0075-0084.BIAS	0	12:04	04:29:31.0	-11:01:51	300	90	3.0	0 Calibration	2	
0085-0099.FLAT	7	12:10	04:29:31.0	-11:01:51	300	90	3.0	0 Calibration	2	
0100-0104.DARK	900	13:13	04:29:31.0	-11:01:51	300	90	3.0	0 Calibration	2	
0105-0109.DARK	900	14:29	04:29:31.0	-11:01:51	300	90	3.0	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0003.DARK	900	02:08	17:26:28.7	+31:30:13	300	91	3.0	0 Calibration	4	
0004-0013.BIAS	0	02:26	17:26:28.7	+31:30:13	300	91	3.0	0 Calibration	4	
0014-0033.FLAT	7	02:32	17:26:28.7	+31:30:13	300	91	3.0	0 Calibration	2	
0034-0043.BIAS	0	02:34	17:26:28.7	+31:30:13	300	91	3.0	0 Calibration	2	
0044.BDp262606	25	02:40	14:49:02.4	+25:42:09	300	91	3.0	#56 Spectropho	2	
0045.COMP	10	02:41	14:49:02.4	+25:42:09	300	91	3.0	0 Calibration	2	
0046.BDp262606	90	02:42	14:49:02.4	+25:42:09	300	91	3.0	#56 Spectropho	2	
0047.COMP	10	02:44	14:49:02.4	+25:42:09	300	91	3.0	0 Calibration	2	
0048.BDp332642	120	02:45	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	2	
0049.COMP	10	02:48	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0050.AT2018fiz	1800	02:51	15:21:43.5	+33:01:25	300	89	3.0	#225	2	
0051.AT2018fiz	1800	03:21	15:21:43.5	+33:01:25	300	89	3.0	#225	2	
0052.AT2018fiz	1800	03:51	15:21:43.5	+33:01:25	300	89	3.0	#225	2	
0053.COMP	10	04:22	15:21:43.5	+33:01:25	300	90	3.0	0 Calibration	2	
0054.AT2018ZF	1200	04:27	19:27:19.5	+65:33:54	300	89	3.0	#227 Changing-	2	
0055.COMP	10	04:48	19:27:19.5	+65:33:54	300	89	3.0	0 Calibration	2	
0056.snAT2018fjy	1800	05:45	18:42:58.2	+73:42:28	300	90	3.0	#2 SN Observat	2	
0057.snAT2018fjy	1800	06:15	18:42:58.2	+73:42:28	300	90	3.0	#2 SN Observat	2	
0058.COMP	10	06:45	18:42:58.2	+73:42:28	300	90	3.0	0 Calibration	2	
0059.snAT2018fjh	1500	06:50	20:51:56.2	+26:16:20	300	90	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0060.COMP	10	07:15	20:51:56.2	+26:16:20	300	90	3.0	0 Calibration	2	
0061.BDp284211	120	07:28	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0062.COMP	10	07:31	21:51:11.0	+28:51:50	300	88	3.0	0 Calibration	2	
0063.BDp174708	25	07:32	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0064.COMP	10	07:33	22:11:31.4	+18:05:34	300	88	3.0	0 Calibration	2	
0065.snAT2018ftc	1800	07:34	23:28:04.0	+09:46:15	300	88	3.0	#2 SN Observat	2	
0066.COMP	10	08:05	23:28:04.0	+09:46:15	300	88	3.0	0 Calibration	2	
0067.2M00501956+6702517	1800	08:07	00:50:19.6	+67:02:52	300	81	3.0	#141 2MASS Red	2	
0068.COMP	10	08:38	00:50:19.6	+67:02:52	300	81	3.0	0 Calibration	2	
0069.AT2018fka	1800	08:41	01:08:53.4	+09:01:21	300	89	3.0	#225	2	
0070.AT2018fka	1800	09:11	01:08:53.4	+09:01:21	300	89	3.0	#225	2	
0071.AT2018fka	1800	09:41	01:08:53.4	+09:01:21	300	89	3.0	#225	2	
0072.COMP	10	10:11	01:08:53.4	+09:01:21	300	90	3.0	0 Calibration	2	
0073.SN2018ffj	1800	10:14	02:30:59.8	-17:20:27	300	90	3.0	#225	2	
0074.SN2018ffj	1800	10:44	02:30:59.8	-17:20:27	300	90	3.0	#225	2	
0075.SN2018ffj	1800	11:14	02:30:59.8	-17:20:27	300	90	3.0	#225	2	
0076.COMP	10	11:44	02:30:59.8	-17:20:27	300	90	3.0	0 Calibration	2	
0077.2M02590152+5318199	1500	11:49	02:59:01.5	+53:18:20	300	90	3.0	#141 2MASS Red	2	
0078.COMP	10	12:14	02:59:01.5	+53:18:20	300	90	3.0	0 Calibration	2	
0079-0088.BIAS	0	12:18	02:59:01.5	+53:18:20	300	90	3.0	0 Calibration	2	

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<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>
0089-0108.FLAT	7	12:23	02:59:01.5	+53:18:20	300	90	3.0	0 Calibration	2	
0109-0118.DARK	900	14:40	02:59:01.5	+53:18:20	300	90	3.0	0 Calibration	2	



UT Date 2018-09-10 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:41	02:59:01.5	+53:18:20	300	90	3.0	0 Calibration	4	
0011-0020.BIAS	0	02:15	02:59:01.5	+53:18:20	300	90	3.0	0 Calibration	4	
0021-0040.FLAT	7	03:05	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0041-0050.BIAS	0	03:06	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0051.BDp332642	120	03:08	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0052.COMP	10	03:10	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0053.BDp262606	70	03:12	14:49:02.4	+25:42:09	300	88	3.0	#56 Spectropho	2	
0054.COMP	10	03:16	14:49:02.4	+25:42:09	300	88	3.0	0 Calibration	2	
0055.2M18003399-0401443	2400	04:08	18:00:34.0	-04:01:44	300	94	3.0	#141 2MASS Red	2	good emission
0056.COMP	10	04:49	18:00:34.0	-04:01:44	300	94	3.0	0 Calibration	2	
0057.SN2018fcg	1800	04:55	21:09:36.8	+33:29:00	300	91	3.0	#225	2	
0058.SN2018fcg	1800	05:26	21:09:36.8	+33:29:00	300	91	3.0	#225	2	
0059.SN2018fcg	1800	05:56	21:09:36.8	+33:29:00	300	91	3.0	#225	2	
0060.COMP	10	06:26	21:09:36.8	+33:29:00	300	91	3.0	0 Calibration	2	
0061.BRUTUS8370_9	1200	06:32	22:48:11.9	+16:14:11	300	91	3.0	#220 ASASSN Tr	2	
0062.COMP	10	06:53	22:48:11.9	+16:14:11	300	90	3.0	0 Calibration	2	
0063.BDp284211	120	06:55	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0064.COMP	10	06:58	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0065.BDp174708	33	07:00	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0066.COMP	10	07:01	22:11:31.4	+18:05:34	300	90	3.0	0 Calibration	2	

UT Date 2018-09-10 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.2M21253828+4809267	2400	07:05	21:25:38.3	+48:09:27	300	90	3.0	#141 2MASS Red	2	
0068.COMP	10	07:50	21:25:38.3	+48:09:27	300	91	3.0	0 Calibration	2	
0069.2M21255239+4423193	2400	07:54	21:25:52.4	+44:23:19	300	91	3.0	#141 2MASS Red	2	row=83 ?
0070.COMP	10	08:35	21:25:52.4	+44:23:19	300	91	3.0	0 Calibration	2	
0071.sn2018epx	1200	08:39	23:29:53.2	+27:22:41	300	91	3.0	#2 SN Observat	2	
0072.COMP	10	08:59	23:29:53.2	+27:22:41	300	91	3.0	0 Calibration	2	
0073.snAT2018fpb	1800	09:02	23:59:42.8	+34:20:40	300	91	3.0	#2 SN Observat	2	
0074.COMP	10	09:33	23:59:42.8	+34:20:40	300	91	3.0	0 Calibration	2	
0075.2M00321813+6029565	300	09:36	00:32:18.1	+60:29:56	300	91	3.0	#141 2MASS Red	2	
0076.COMP	10	09:41	00:32:18.1	+60:29:56	300	90	3.0	0 Calibration	2	
0077.2M00532380+6128104	2400	09:44	00:53:23.8	+61:28:10	300	80	3.0	#141 2MASS Red	2	
0078.COMP	10	10:24	00:53:23.8	+61:28:10	300	80	3.0	0 Calibration	2	
0079.2M00343656+6310260	2400	10:26	00:34:36.6	+63:10:26	300	89	3.0	#141 2MASS Red	2	
0080.COMP	10	11:07	00:34:36.6	+63:10:26	300	90	3.0	0 Calibration	2	
0081.2M03132009+6224130	2400	11:11	03:13:20.1	+62:24:13	300	87	3.0	#141 2MASS Red	2	
0082.COMP	10	11:52	03:13:20.1	+62:24:13	300	87	3.0	0 Calibration	2	
0083-0092.BIAS	0	12:20	03:43:30.2	+58:25:15	300	87	3.0	0 Calibration	2	
0093-0112.FLAT	7	12:29	03:43:30.2	+58:25:15	300	87	3.0	0 Calibration	2	
0113-0122.DARK	900	14:46	03:43:30.2	+58:25:15	300	87	3.0	0 Calibration	2	

UT Date 2018-09-11 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	00:34	03:43:30.2	+58:25:15	300	87	3.0	0 Calibration	4	
0011-0020.BIAS	0	00:50	03:43:30.2	+58:25:15	300	87	3.0	0 Calibration	4	
0021-0040.FLAT	7	01:38	03:43:30.2	+58:25:15	300	87	3.0	0 Calibration	2	
0041-0050.BIAS	0	01:52	03:43:30.2	+58:25:15	300	87	3.0	0 Calibration	2	
0051.BDp262606	30	02:34	14:49:02.4	+25:42:09	300	87	3.0	#56 Spectropho	2	
0052.COMP	10	02:35	14:49:02.4	+25:42:09	300	87	3.0	0 Calibration	2	
0053.BDp262606	60	02:35	14:49:02.4	+25:42:09	300	87	3.0	#56 Spectropho	2	
0054.COMP	10	02:38	14:49:02.4	+25:42:09	300	87	3.0	0 Calibration	2	
0055.BDp332642	150	02:39	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0056.COMP	10	02:42	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0057.2M18310342-2347198	2400	02:49	18:31:03.4	-23:47:20	300	89	3.0	#141 2MASS Red	2	row=93
0058.COMP	10	03:29	18:31:03.4	-23:47:20	300	89	3.0	0 Calibration	2	
0059.2M18010993-0822352	2400	03:34	18:01:09.9	-08:22:35	300	89	3.0	#141 2MASS Red	2	
0060.COMP	10	04:14	18:01:09.9	-08:22:35	300	89	3.0	0 Calibration	2	
0061.2M21311568+4752142	2400	04:43	21:31:15.7	+47:52:14	300	89	3.0	#141 2MASS Red	2	
0062.COMP	10	05:23	21:31:15.7	+47:52:14	300	87	3.0	0 Calibration	2	
0063.j2102p16	738	05:31	21:02:38.2	+16:07:15	600	87	1.5	#178 Low Mass	4	
0064.COMP	10	05:43	21:02:38.2	+16:07:15	600	88	1.5	0 Calibration	4	
0065.j2102p07	1517	05:44	21:02:47.6	+07:02:28	600	88	1.5	#178 Low Mass	4	
0066.COMP	10	06:10	21:02:47.6	+07:02:28	600	89	1.5	0 Calibration	4	

UT Date 2018-09-11 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.j2104p06	1600	06:12	21:04:02.2	+06:18:33	600	89	1.5	#178 Low Mass	4	
0068.COMP	10	06:39	21:04:02.2	+06:18:33	600	89	1.5	0 Calibration	4	
0069.j2104p07	1636	06:40	21:04:17.4	+06:34:08	600	89	1.5	#178 Low Mass	4	
0070.COMP	10	07:08	21:04:17.4	+06:34:08	600	88	1.5	0 Calibration	4	
0071.j2111p02	1072	07:09	21:11:40.5	+02:24:52	600	88	1.5	#178 Low Mass	4	
0072.COMP	10	07:27	21:11:40.5	+02:24:52	600	89	1.5	0 Calibration	4	
0073.j2112p06	1062	07:28	21:12:58.2	+06:22:20	600	89	1.5	#178 Low Mass	4	
0074.COMP	10	07:47	21:12:58.2	+06:22:20	600	89	1.5	0 Calibration	4	
0075.j2212p08	1637	07:48	22:12:32.2	+08:32:11	600	89	1.5	#178 Low Mass	4	
0076.COMP	10	08:16	22:12:32.2	+08:32:11	600	89	1.5	0 Calibration	4	
0077.j2215p01	1300	08:18	22:15:50.9	+01:36:06	600	89	1.5	#178 Low Mass	4	
0078.COMP	10	08:40	22:15:50.9	+01:36:06	600	89	1.5	0 Calibration	4	
0079.j2217p05	1637	08:42	22:17:11.8	+05:34:35	600	89	1.5	#178 Low Mass	4	
0080.COMP	10	09:09	22:17:11.8	+05:34:35	600	89	1.5	0 Calibration	4	
0081.Feige110	210	09:11	23:19:58.4	-05:09:56	600	89	1.5	#56 Spectropho	4	
0082.COMP	10	09:16	23:19:58.4	-05:09:56	600	89	1.5	0 Calibration	4	
0083.j2349p10	1200	09:19	23:49:29.6	+10:22:55	600	89	1.5	#178 Low Mass	4	
0084.COMP	10	09:39	23:49:29.6	+10:22:55	600	89	1.5	0 Calibration	4	
0085.j2355p17	1097	09:41	23:55:15.5	+17:08:31	600	89	1.5	#178 Low Mass	4	
0086.COMP	10	10:00	23:55:15.5	+17:08:31	600	89	1.5	0 Calibration	4	

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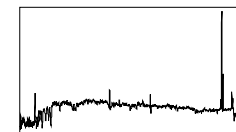
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0087.j0025p19	1238	10:02	00:25:30.2	+19:38:06	600	89	1.5	#178 Low Mass	4	
0088.COMP	10	10:23	00:25:30.2	+19:38:06	600	89	1.5	0 Calibration	4	
0089.j0029p36	1071	10:24	00:29:59.0	+36:48:35	600	89	1.5	#178 Low Mass	4	
0090.COMP	10	10:43	00:29:59.0	+36:48:35	600	89	1.5	0 Calibration	4	
0091.j0031p12	1200	10:44	00:31:51.3	+12:39:46	600	89	1.5	#178 Low Mass	4	
0092.COMP	10	11:05	00:31:51.3	+12:39:46	600	89	1.5	0 Calibration	4	
0093.j0036p19	1200	11:06	00:36:43.6	+19:01:29	600	89	1.5	#178 Low Mass	4	
0094.COMP	10	11:28	00:36:43.6	+19:01:29	600	89	1.5	0 Calibration	4	
0095.j0152m01	1600	11:30	01:52:16.9	-01:29:04	600	89	1.5	#178 Low Mass	4	
0096.COMP	10	11:58	01:52:16.9	-01:29:04	600	89	1.5	0 Calibration	4	
0097-0106.FLAT	12	12:02	01:52:16.9	-01:29:04	600	89	1.5	0 Calibration	4	
0107-0116.BIAS	0	12:12	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	
0117-0126.DARK	900	14:30	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:02	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	01:25	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	02:49	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	02:51	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	
0051.BDp262606	80	02:58	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0052.COMP	10	03:00	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0053.AT2018fiz	1800	03:03	15:21:43.5	+33:01:25	300	89	3.0	#225	2	row=90
0054.AT2018fiz	1800	03:34	15:21:43.5	+33:01:25	300	89	3.0	#225	2	
0055.COMP	10	04:19	15:21:43.5	+33:01:25	300	89	3.0	0 Calibration	2	
0056.BDp332642	120	04:20	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0057.COMP	10	04:22	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0058.RSOph	10	04:25	17:50:13.0	-06:42:30	300	89	3.0	#12 Symbiotic	2	
0059.RSOph	60	04:25	17:50:13.0	-06:42:30	300	89	3.0	#12 Symbiotic	2	
0060.RSOph	150	04:27	17:50:13.0	-06:42:30	300	89	3.0	#12 Symbiotic	2	
0061.COMP	10	04:29	17:50:13.0	-06:42:30	300	88	3.0	0 Calibration	2	
0062.AS270	60	04:32	18:05:33.7	-20:20:38	300	88	3.0	#12 Symbiotic	2	
0063.AS270	300	04:33	18:05:33.7	-20:20:38	300	88	3.0	#12 Symbiotic	2	
0064.COMP	10	04:39	18:05:33.7	-20:20:38	300	89	3.0	0 Calibration	2	
0065.AS281	60	04:40	18:10:44.0	-27:57:51	300	89	3.0	#12 Symbiotic	2	
0066.AS281	360	04:42	18:10:44.0	-27:57:51	300	89	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.COMP	10	04:48	18:10:44.0	-27:57:51	300	89	3.0	0 Calibration	2	
0068.Hen1674	120	04:50	18:20:19.1	-26:22:46	300	89	3.0	#12 Symbiotic	2	
0069.Hen1674	600	04:56	18:20:19.1	-26:22:46	300	90	3.0	#12 Symbiotic	2	
0070.COMP	10	05:07	18:20:19.1	-26:22:46	300	89	3.0	0 Calibration	2	
0071.AS327	30	05:09	18:53:17.0	-24:22:59	300	89	3.0	#12 Symbiotic	2	
0072.AS327	300	05:09	18:53:17.0	-24:22:59	300	89	3.0	#12 Symbiotic	2	
0073.COMP	10	05:15	18:53:17.0	-24:22:59	300	89	3.0	0 Calibration	2	
0074.AS289	15	05:17	18:12:22.0	-11:40:08	300	89	3.0	#12 Symbiotic	2	
0075.AS289	420	05:17	18:12:22.0	-11:40:08	300	89	3.0	#12 Symbiotic	2	
0076.COMP	10	05:25	18:12:22.0	-11:40:08	300	88	3.0	0 Calibration	2	
0077.YYHer	10	05:27	18:14:34.0	+20:59:19	300	88	3.0	#12 Symbiotic	2	
0078.YYHer	60	05:28	18:14:34.0	+20:59:19	300	88	3.0	#12 Symbiotic	2	
0079.COMP	10	05:30	18:14:34.0	+20:59:19	300	89	3.0	0 Calibration	2	
0080.AS296	30	05:32	18:15:07.0	-00:18:52	300	89	3.0	#12 Symbiotic	2	
0081.AS296	120	05:33	18:15:07.0	-00:18:52	300	89	3.0	#12 Symbiotic	2	
0082.COMP	10	05:35	18:15:07.0	-00:18:52	300	89	3.0	0 Calibration	2	
0083.V443Her	5	05:37	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0084.V443Her	45	05:37	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0085.V443Her	90	05:38	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0086.COMP	10	05:40	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.AS316	30	05:44	18:42:33.0	-21:17:47	300	89	3.0	#12 Symbiotic	2	
0088.AS316	300	05:45	18:42:33.0	-21:17:47	300	88	3.0	#12 Symbiotic	2	
0089.COMP	10	05:50	18:42:33.0	-21:17:47	300	88	3.0	0 Calibration	2	
0090.V919Sgr	15	05:51	19:03:45.0	-16:59:56	300	88	3.0	#12 Symbiotic	2	
0091.V919Sgr	30	05:52	19:03:45.0	-16:59:56	300	88	3.0	#12 Symbiotic	2	
0092.COMP	10	05:53	19:03:45.0	-16:59:56	300	89	3.0	0 Calibration	2	
0093.AS338	90	05:56	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0094.AS338	600	05:58	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0095.COMP	10	06:08	19:03:47.0	+16:26:17	300	89	3.0	0 Calibration	2	
0096.BFCyg	15	06:15	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0097.BFCyg	15	06:15	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0098.COMP	10	06:16	19:23:53.0	+29:40:27	300	89	3.0	0 Calibration	2	
0099.CHCyg	1	06:23	19:24:33.0	+50:14:30	300	87	3.0	#12 Symbiotic	2	
0100.CHCyg	5	06:23	19:24:33.0	+50:14:30	300	87	3.0	#12 Symbiotic	2	
0101.CHCyg	30	06:24	19:24:33.0	+50:14:30	300	87	3.0	#12 Symbiotic	2	
0102.COMP	10	06:25	19:24:33.0	+50:14:30	300	87	3.0	0 Calibration	2	
0103.HMSge	1	06:28	19:41:57.0	+16:44:41	300	87	3.0	#12 Symbiotic	2	
0104.HMSge	10	06:28	19:41:57.0	+16:44:41	300	87	3.0	#12 Symbiotic	2	
0105.HMSge	60	06:28	19:41:57.0	+16:44:41	300	87	3.0	#12 Symbiotic	2	
0106.COMP	10	06:30	19:41:57.0	+16:44:41	300	88	3.0	0 Calibration	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0107.AS360	60	06:31	19:45:49.0	+18:36:49	300	88	3.0	#12 Symbiotic	2	
0108.AS360	300	06:32	19:45:49.0	+18:36:49	300	88	3.0	#12 Symbiotic	2	
0109.COMP	10	06:38	19:45:49.0	+18:36:49	300	88	3.0	0 Calibration	2	
0110.CICyg	4	06:39	19:50:12.0	+35:41:02	300	88	3.0	#12 Symbiotic	2	
0111.CICyg	15	06:39	19:50:12.0	+35:41:02	300	88	3.0	#12 Symbiotic	2	
0112.COMP	10	06:40	19:50:12.0	+35:41:02	300	88	3.0	0 Calibration	2	
0113.V1016Cyg	1	06:41	19:57:05.0	+39:49:37	300	88	3.0	#12 Symbiotic	2	
0114.V1016Cyg	10	06:41	19:57:05.0	+39:49:37	300	88	3.0	#12 Symbiotic	2	
0115.V1016Cyg	60	06:42	19:57:05.0	+39:49:37	300	88	3.0	#12 Symbiotic	2	
0116.COMP	10	06:43	19:57:05.0	+39:49:37	300	88	3.0	0 Calibration	2	
0117.PUVu1	1	06:47	20:21:13.0	+21:34:21	300	88	3.0	#12 Symbiotic	2	
0118.PUVu1	10	06:47	20:21:13.0	+21:34:21	300	88	3.0	#12 Symbiotic	2	
0119.PUVu1	60	06:47	20:21:13.0	+21:34:21	300	88	3.0	#12 Symbiotic	2	
0120.COMP	10	06:50	20:21:13.0	+21:34:21	300	88	3.0	0 Calibration	2	
0121.V1515Cyg	600	06:52	20:23:48.0	+42:12:24	300	88	3.0	#12 Symbiotic	2	
0122.COMP	10	07:02	20:23:48.0	+42:12:24	300	88	3.0	0 Calibration	2	
0123.V1329Cyg	20	07:04	20:51:01.0	+35:34:55	300	88	3.0	#12 Symbiotic	2	
0124.V1329Cyg	120	07:05	20:51:01.0	+35:34:55	300	88	3.0	#12 Symbiotic	2	
0125.COMP	10	07:08	20:51:01.0	+35:34:55	300	88	3.0	0 Calibration	2	
0126.V1057Cyg	360	07:09	20:58:54.0	+44:15:30	300	88	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0127.COMP	10	07:15	20:58:54.0	+44:15:30	300	85	3.0	0 Calibration	2	
0128.AGPeg	1	07:17	21:51:02.0	+12:37:33	300	85	3.0	#12 Symbiotic	2	
0129.AGPeg	10	07:18	21:51:02.0	+12:37:33	300	85	3.0	#12 Symbiotic	2	
0130.AGPeg	30	07:18	21:51:02.0	+12:37:33	300	85	3.0	#12 Symbiotic	2	
0131.COMP	10	07:19	21:51:02.0	+12:37:33	300	85	3.0	0 Calibration	2	
0132.2M21263514+4541569	1800	07:22	21:26:35.1	+45:41:57	300	97	3.0	#141 2MASS Red	2	
0133.COMP	10	07:52	21:26:35.1	+45:41:57	300	97	3.0	0 Calibration	2	
0134.2M21464183+5427064	2400	08:00	21:46:41.8	+54:27:06	300	81	3.0	#141 2MASS Red	2	
0135.COMP	10	08:40	21:46:41.8	+54:27:06	300	80	3.0	0 Calibration	2	
0136.2M22333889+5110463	900	08:44	22:33:38.9	+51:10:46	300	85	3.0	#141 2MASS Red	2	
0137.COMP	10	08:59	22:33:38.9	+51:10:46	300	85	3.0	0 Calibration	2	
0138.snAT2018cdc	1800	09:04	00:51:05.2	-07:03:47	300	-30	3.0	#2 SN Observat	2	
0139.COMP	10	09:35	00:51:05.2	-07:03:47	300	-30	3.0	0 Calibration	2	
0140.TUC180912	1200	10:07	01:59:57.0	+70:00:27	300	87	3.0	#99 Falco	2	
0141.COMP	10	10:27	01:59:57.0	+70:00:27	300	89	3.0	0 Calibration	2	
0142.2M01010569+5804266	2400	10:31	01:01:05.7	+58:04:27	300	89	3.0	#141 2MASS Red	2	
0143.COMP	10	11:11	01:01:05.7	+58:04:27	300	89	3.0	0 Calibration	2	
0144.2M02471213+5528163	1500	11:13	02:47:12.1	+55:28:16	300	89	3.0	#141 2MASS Red	2	
0145.COMP	10	11:38	02:47:12.1	+55:28:16	300	89	3.0	0 Calibration	2	
0146.BRUTUS8372_7	1800	11:43	07:09:53.4	+54:58:07	300	-21	3.0	#220 ASASSN Tr	2	

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<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>
0147.COMP	10	12:14	07:09:53.4	+54:58:07	300	-20	3.0	0 Calibration	2	
0148-0157.BIAS	0	12:20	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	
0158-0177.FLAT	7	12:26	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	
0178-0187.DARK	900	14:47	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	00:43	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	01:21	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	01:56	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	01:59	07:09:53.4	+54:58:07	300	89	3.0	0 Calibration	2	
0051.BDp262606	120	02:28	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0052.COMP	10	02:31	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0053.BDp332642	150	02:33	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0054.COMP	10	02:37	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0055.sn2018feb	1800	02:39	17:10:11.2	+21:38:57	300	89	3.0	#2 SN Observat	2	
0056.COMP	10	03:09	17:10:11.2	+21:38:57	300	90	3.0	0 Calibration	2	
0057.snAT2018fjy	1800	03:13	18:42:58.2	+73:42:28	300	90	3.0	#2 SN Observat	2	
0058.COMP	10	03:43	18:42:58.2	+73:42:28	300	85	3.0	0 Calibration	2	
0059.2M18203316-0121387	2400	03:52	18:20:33.2	-01:21:39	300	85	3.0	#141 2MASS Red	2	
0060.COMP	10	04:33	18:20:33.2	-01:21:39	300	90	3.0	0 Calibration	2	
0061.2M19315025+2543597	1800	04:41	19:31:50.3	+25:44:00	300	80	3.0	#141 2MASS Red	2	
0062.COMP	10	05:12	19:31:50.3	+25:44:00	300	80	3.0	0 Calibration	2	
0063.2M21155845+4655229	1500	05:15	21:15:58.5	+46:55:23	300	90	3.0	#141 2MASS Red	2	
0064.COMP	10	05:40	21:15:58.5	+46:55:23	300	90	3.0	0 Calibration	2	
0065.2M21355259+4734217	1200	05:43	21:35:52.6	+47:34:22	300	60	3.0	#141 2MASS Red	2	
0066.COMP	10	06:03	21:35:52.6	+47:34:22	300	61	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.TUC180912	1200	06:07	01:59:57.0	+70:00:27	300	88	3.0	#99 Falco	2	
0068.COMP	10	06:27	01:59:57.0	+70:00:27	300	91	3.0	0 Calibration	2	
0069.BDp284211	120	06:33	21:51:11.0	+28:51:50	300	91	3.0	#56 Spectropho	2	
0070.COMP	10	06:36	21:51:11.0	+28:51:50	300	91	3.0	0 Calibration	2	
0071.BDp174708	25	06:38	22:11:31.4	+18:05:34	300	91	3.0	#56 Spectropho	2	
0072.COMP	10	06:39	22:11:31.4	+18:05:34	300	91	3.0	0 Calibration	2	
0073.snAT2018ftc	1800	06:43	23:28:04.0	+09:46:15	300	91	3.0	#2 SN Observat	2	
0074.COMP	10	07:13	23:28:04.0	+09:46:15	300	91	3.0	0 Calibration	2	
0075.snAT2018fpb	1800	07:20	23:59:42.8	+34:20:40	300	91	3.0	#2 SN Observat	2	
0076.COMP	10	07:50	23:59:42.8	+34:20:40	300	90	3.0	0 Calibration	2	
0077.sn2018epx	1800	07:54	23:29:53.2	+27:22:41	300	99	3.0	#2 SN Observat	2	
0078.COMP	10	08:24	23:29:53.2	+27:22:41	300	100	3.0	0 Calibration	2	
0079.BRUTUS8374_5	1800	08:28	00:58:53.9	-24:11:47	300	90	3.0	#220 ASASSN Tr	2	
0080.COMP	10	08:59	00:58:53.9	-24:11:47	300	90	3.0	0 Calibration	2	
0081.snAT2018ftn	1800	09:02	01:25:17.9	+09:39:01	300	90	3.0	#2 SN Observat	2	
0082.COMP	10	09:32	01:25:17.9	+09:39:01	300	90	3.0	0 Calibration	2	
0083.TUC180912	1200	09:38	01:59:57.0	+70:00:27	300	90	3.0	#99 Falco	2	
0084.COMP	10	09:58	01:59:57.0	+70:00:27	300	88	3.0	0 Calibration	2	
0085.sn2018djd	1200	10:01	02:14:34.0	-00:45:56	300	88	3.0	#2 SN Observat	2	
0086.COMP	10	10:22	02:14:34.0	-00:45:56	300	90	3.0	0 Calibration	2	

UT Date 2018-09-13 Observers M CalkinsColl. Focus 1320 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>
0087.sn2018eqq	1200	10:24	03:06:55.2	+41:30:33	300	90	3.0	#2 SN Observat	2	
0088.COMP	10	10:45	03:06:55.2	+41:30:33	300	84	3.0	0 Calibration	2	
0089.2M03162208+5215460	1500	10:47	03:16:22.1	+52:15:46	300	71	3.0	#141 2MASS Red	2	
0090.COMP	10	11:13	03:16:22.1	+52:15:46	300	70	3.0	0 Calibration	2	
0091.GITau	240	11:16	04:33:34.0	+24:21:18	300	70	3.0	#12 Symbiotic	2	
0092.COMP	10	11:20	04:33:34.0	+24:21:18	300	70	3.0	0 Calibration	2	
0093.GKTau	240	11:21	04:33:34.5	+24:21:07	300	70	3.0	#12 Symbiotic	2	
0094.COMP	10	11:25	04:33:34.5	+24:21:07	300	70	3.0	0 Calibration	2	
0095-0104.BIAS	0	12:25	04:30:58.4	-26:46:54	300	89	3.0	0 Calibration	2	
0105-0124.FLAT	7	12:32	04:30:58.4	-26:46:54	300	89	3.0	0 Calibration	2	
0125-0134.DARK	900	14:49	04:30:58.4	-26:46:54	300	89	3.0	0 Calibration	2	