

UT Date 2018-12-05 Observers W.BrownColl. Focus 1320 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.COMP	5	20:37	14:54:27.5	+31:30:30	300	87	3.0	0 Calibration	2	TEST
0002.fastfoc	10	22:14	14:54:27.5	+31:30:30	600	87	1.5	#56 Spectropho	4	x7 focus=1280
0003.fastfoc	10	22:14	14:54:27.5	+31:30:30	600	87	1.5	#56 Spectropho	4	
0004.fastfoc	10	22:15	14:54:27.5	+31:30:30	600	87	1.5	#56 Spectropho	4	
0005.fastfoc	10	22:15	14:54:27.5	+31:30:30	600	87	1.5	#56 Spectropho	4	
0006.fastfoc	10	22:15	14:54:27.5	+31:30:30	600	87	1.5	#56 Spectropho	4	
0007.fastfoc	10	22:16	14:54:27.5	+31:30:30	600	87	1.5	#56 Spectropho	4	
0008.fastfoc	10	22:16	14:54:27.5	+31:30:30	600	87	1.5	#56 Spectropho	4	
0009.BIAS	0	22:19	14:54:27.5	+31:30:30	600	87	1.5	0 Calibration	4	x21
0010-0029.BIAS	0	22:20	14:54:27.5	+31:30:30	600	87	1.5	0 Calibration	4	
0031.FLAT	12	22:25	14:54:27.5	+31:30:30	600	87	1.5	0 Calibration	4	x19
0032-0049.FLAT	12	22:31	14:54:27.5	+31:30:30	600	87	1.5	0 Calibration	4	
0051.BDp284211	180	01:17	21:51:11.0	+28:51:50	600	90	1.5	#56 Spectropho	4	moderate/heavy clouds
0052.COMP	10	01:20	21:51:11.0	+28:51:50	600	90	1.5	0 Calibration	4	
0053.bb374	300	01:23	21:46:46.0	+00:42:42	600	90	1.5	#178 Low Mass	4	
0054.COMP	10	01:28	21:46:46.0	+00:42:42	600	90	1.5	0 Calibration	4	
0055.j2154m04	900	01:30	21:54:41.3	-04:18:18	600	88	1.5	#178 Low Mass	4	
0056.COMP	10	01:46	21:54:41.3	-04:18:18	600	88	1.5	0 Calibration	4	
0057.bb347	900	01:47	21:35:47.1	-11:37:54	600	87	1.5	#178 Low Mass	4	
0058.COMP	10	02:03	21:35:47.1	-11:37:54	600	87	1.5	0 Calibration	4	

UT Date 2018-12-05 Observers W.BrownColl. Focus 1320 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0059.j2308m27	1320	02:04	23:08:52.4	-27:10:29	600	86	1.5	#178 Low Mass	4	
0060.COMP	10	02:27	23:08:52.4	-27:10:29	600	86	1.5	0 Calibration	4	
0061.j0006m15	1620	02:30	00:06:22.8	-15:55:45	600	86	1.5	#178 Low Mass	4	clouds thicker
0063.COMP	10	03:00	00:06:22.8	-15:55:45	600	86	1.5	0 Calibration	4	
0064.j2156p22	1620	03:08	21:56:02.6	+22:52:02	600	87	1.5	#178 Low Mass	4	
0065.COMP	10	03:36	21:56:02.6	+22:52:02	600	87	1.5	0 Calibration	4	
0066.j2232p25	1620	03:37	22:32:30.4	+25:50:34	600	86	1.5	#178 Low Mass	4	
0067.COMP	10	04:04	22:32:30.4	+25:50:34	600	86	1.5	0 Calibration	4	
0068.j2248p12	1560	04:07	22:48:45.5	+12:20:08	600	87	1.5	#178 Low Mass	4	
0069.COMP	10	04:33	22:48:45.5	+12:20:08	600	87	1.5	0 Calibration	4	
0070.j2250p28	1620	04:36	22:50:08.1	+28:17:07	600	87	1.5	#178 Low Mass	4	
0071.COMP	10	05:03	22:50:08.1	+28:17:07	600	87	1.5	0 Calibration	4	very cloudy
0072.j2251p33	1500	05:16	22:51:35.8	+33:00:50	600	87	1.5	#178 Low Mass	4	
0073.COMP	10	05:42	22:51:35.8	+33:00:50	600	87	1.5	0 Calibration	4	very low s/n
0074.gaia36	180	05:47	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0075.COMP	10	05:51	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	
0076.gaia36	180	05:52	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0077.gaia36	180	05:55	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0078.gaia36	180	05:58	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0079.gaia36	180	06:01	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	

UT Date 2018-12-05 Observers W.BrownColl. Focus 1320 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0080.gaia36	240	06:04	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0081.COMP	10	06:10	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	
0082.gaia36	180	06:11	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0083.gaia36	210	06:14	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0084.gaia36	180	06:18	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0085.gaia36	180	06:21	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0086.gaia36	180	06:24	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0087.COMP	10	06:27	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	
0088.gaia36	210	06:28	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0089.gaia36	180	06:31	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0090.gaia36	180	06:35	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0091.gaia36	180	06:38	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0092.gaia36	180	06:41	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0093.COMP	10	06:44	05:00:51.8	-09:30:57	600	88	1.5	0 Calibration	4	
0094.gaia36	210	06:45	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0095.gaia36	180	06:49	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0096.gaia36	240	06:52	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	getting cloudier
0097.gaia36	270	06:56	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0098.gaia36	240	07:00	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0099.COMP	10	07:05	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	

UT Date 2018-12-05 Observers W.BrownColl. Focus 1320 Grating/Grism 600

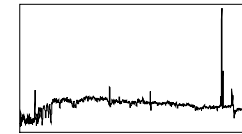
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0100.gaia36	420	07:06	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0101.gaia36	420	07:13	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0102.gaia36	480	07:20	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0103.gaia36	360	07:28	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0104.gaia36	360	07:35	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0105.COMP	10	07:41	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	
0106.gaia36	300	07:42	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0107.gaia36	300	07:47	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0108.gaia36	300	07:52	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0109.gaia36	300	07:57	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0110.gaia36	300	08:02	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0111.COMP	10	08:08	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	
0112.gaia36	300	08:09	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0113.gaia36	300	08:14	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0114.gaia36	300	08:19	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0115.gaia36	300	08:24	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0116.gaia36	300	08:29	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0117.COMP	10	08:35	05:00:51.8	-09:30:57	600	88	1.5	0 Calibration	4	
0118.gaia36	360	08:44	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0119.gaia36	360	08:54	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	

UT Date 2018-12-05 Observers W.BrownColl. Focus 1320 Grating/Grism 600

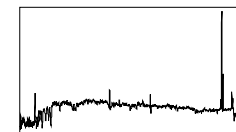
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0120.gaia36	300	09:00	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0121.gaia36	360	09:05	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	getting cloudier again
0122.gaia36	540	09:13	05:00:51.8	-09:30:57	600	88	1.5	#178 Low Mass	4	
0123.COMP	10	09:22	05:00:51.8	-09:30:57	600	88	1.5	0 Calibration	4	done for night
0124-0139.FLAT	12	11:02	05:00:51.8	-09:30:57	600	88	1.5	0 Calibration	4	
0140-0149.BIAS	0	11:09	05:00:51.8	-09:30:57	600	88	1.5	0 Calibration	4	
0150-0159.DARK	900	14:03	05:00:51.8	-09:30:57	600	88	1.5	0 Calibration	4	

UT Date 2018-12-11 Observers W.BrownColl. Focus 1280 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.COMP	5	23:07	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	4	set-up
0002.COMP	5	23:09	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	4	set-up
0003.fastfoc	5	23:14	23:19:58.4	-05:09:56	300	90	3.0	#56 Spectropho	4	x7 focus=1280
0004.fastfoc	5	23:14	23:19:58.4	-05:09:56	300	90	3.0	#56 Spectropho	4	
0005.fastfoc	5	23:14	23:19:58.4	-05:09:56	300	90	3.0	#56 Spectropho	4	
0006.fastfoc	5	23:15	23:19:58.4	-05:09:56	300	90	3.0	#56 Spectropho	4	
0007.fastfoc	5	23:15	23:19:58.4	-05:09:56	300	90	3.0	#56 Spectropho	4	
0008.fastfoc	5	23:15	23:19:58.4	-05:09:56	300	90	3.0	#56 Spectropho	4	
0009.fastfoc	5	23:15	23:19:58.4	-05:09:56	300	90	3.0	#56 Spectropho	4	
0010.BIAS	0	23:18	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	2	x19
0011-0028.BIAS	0	23:21	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	2	
0029.FLAT	7	23:22	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	2	x21
0030-0049.FLAT	7	23:27	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	2	
0050.DARK	900	23:30	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	2	x4
0051-0053.DARK	900	00:16	23:19:58.4	-05:09:56	300	90	3.0	0 Calibration	2	
0054.HMSge	10	01:29	19:41:57.0	+16:44:41	300	90	3.0	#12 Symbiotic	2	extreme clouds
0055.HMSge	300	01:30	19:41:57.0	+16:44:41	300	90	3.0	#12 Symbiotic	2	
0056.COMP	5	01:35	19:41:57.0	+16:44:41	300	90	3.0	0 Calibration	2	
0057.AS360	600	01:36	19:45:49.0	+18:36:49	300	87	3.0	#12 Symbiotic	2	
0058.COMP	10	01:46	19:45:49.0	+18:36:49	300	87	3.0	0 Calibration	2	

UT Date 2018-12-11 Observers W.BrownColl. Focus 1280 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0059.BFCyg	180	01:49	19:23:53.0	+29:40:27	300	87	3.0	#12 Symbiotic	2	increasing exptime by 10x barely enough
0060.COMP	10	01:53	19:23:53.0	+29:40:27	300	87	3.0	0 Calibration	2	
0061.CHCyg	10	01:54	19:24:33.0	+50:14:30	300	87	3.0	#12 Symbiotic	2	
0062.CHCyg	360	01:54	19:24:33.0	+50:14:30	300	87	3.0	#12 Symbiotic	2	
0063.COMP	10	02:01	19:24:33.0	+50:14:30	300	87	3.0	0 Calibration	2	
0064.CICyg	60	02:08	19:50:12.0	+35:41:02	300	87	3.0	#12 Symbiotic	2	
0065.CICyg	300	02:10	19:50:12.0	+35:41:02	300	87	3.0	#12 Symbiotic	2	
0066.COMP	10	02:15	19:50:12.0	+35:41:02	300	87	3.0	0 Calibration	2	
0067.V1016Cyg	10	02:16	19:57:05.0	+39:49:37	300	87	3.0	#12 Symbiotic	2	
0068.V1016Cyg	360	02:17	19:57:05.0	+39:49:37	300	88	3.0	#12 Symbiotic	2	
0069.COMP	10	02:23	19:57:05.0	+39:49:37	300	88	3.0	0 Calibration	2	
0070.PUVul	10	02:25	20:21:13.0	+21:34:21	300	88	3.0	#12 Symbiotic	2	
0071.PUVul	360	02:25	20:21:13.0	+21:34:21	300	88	3.0	#12 Symbiotic	2	
0072.COMP	10	02:32	20:21:13.0	+21:34:21	300	88	3.0	0 Calibration	2	
0073.V1515Cyg	600	02:34	20:23:48.0	+42:12:24	300	88	3.0	#12 Symbiotic	2	
0074.COMP	10	02:44	20:23:48.0	+42:12:24	300	88	3.0	0 Calibration	2	
0075.V1329Cyg	60	02:45	20:51:01.0	+35:34:55	300	88	3.0	#12 Symbiotic	2	
0076.V1329Cyg	360	02:47	20:51:01.0	+35:34:55	300	88	3.0	#12 Symbiotic	2	
0077.COMP	10	02:53	20:51:01.0	+35:34:55	300	88	3.0	0 Calibration	2	
0078.V1057Cyg	360	02:54	20:58:54.0	+44:15:30	300	88	3.0	#12 Symbiotic	2	

UT Date 2018-12-11 Observers W.BrownColl. Focus 1280 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0079.COMP	10	03:00	20:58:54.0	+44:15:30	300	88	3.0	0 Calibration	2	
0080.AGPeg	1	03:02	21:51:02.0	+12:37:33	300	88	3.0	#12 Symbiotic	2	
0081.AGPeg	10	03:03	21:51:02.0	+12:37:33	300	88	3.0	#12 Symbiotic	2	
0082.AGPeg	100	03:03	21:51:02.0	+12:37:33	300	88	3.0	#12 Symbiotic	2	
0083.COMP	10	03:05	21:51:02.0	+12:37:33	300	88	3.0	0 Calibration	2	
0084.RAqr	1	03:06	23:43:49.0	-15:17:05	300	88	3.0	#12 Symbiotic	2	
0085.RAqr	10	03:07	23:43:49.0	-15:17:05	300	88	3.0	#12 Symbiotic	2	
0086.RAqr	100	03:07	23:43:49.0	-15:17:05	300	88	3.0	#12 Symbiotic	2	
0087.COMP	10	03:09	23:43:49.0	-15:17:05	300	88	3.0	0 Calibration	2	
0088.ZAnd	1	03:13	23:33:40.0	+48:49:06	300	88	3.0	#12 Symbiotic	2	
0089.ZAnd	10	03:13	23:33:40.0	+48:49:06	300	88	3.0	#12 Symbiotic	2	
0090.ZAnd	100	03:13	23:33:40.0	+48:49:06	300	88	3.0	#12 Symbiotic	2	
0091.COMP	10	03:16	23:33:40.0	+48:49:06	300	88	3.0	0 Calibration	2	
0092.EGAnd	1	03:17	00:44:37.0	+40:40:47	300	88	3.0	#12 Symbiotic	2	
0093.EGAnd	10	03:18	00:44:37.0	+40:40:47	300	88	3.0	#12 Symbiotic	2	
0094.EGAnd	100	03:18	00:44:37.0	+40:40:47	300	88	3.0	#12 Symbiotic	2	
0095.COMP	10	03:20	00:44:37.0	+40:40:47	300	88	3.0	0 Calibration	2	
0096.AXPer	10	03:21	01:36:23.0	+54:15:03	300	88	3.0	#12 Symbiotic	2	
0097.AXPer	100	03:22	01:36:23.0	+54:15:03	300	88	3.0	#12 Symbiotic	2	
0098.AXPer	600	03:24	01:36:23.0	+54:15:03	300	88	3.0	#12 Symbiotic	2	



UT Date 2018-12-11 Observers W.BrownColl. Focus 1280 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0099.COMP	10	03:34	01:36:23.0	+54:15:03	300	88	3.0	0 Calibration	2	
0100.GITau	900	03:36	04:33:34.0	+24:21:18	300	88	3.0	#12 Symbiotic	2	
0101.COMP	10	03:51	04:33:34.0	+24:21:18	300	88	3.0	0 Calibration	2	
0102.GKTau	600	03:52	04:33:34.5	+24:21:07	300	88	3.0	#12 Symbiotic	2	
0103.COMP	10	04:04	04:33:34.5	+24:21:07	300	88	3.0	0 Calibration	2	
0104.BGGem	900	04:29	06:03:31.0	+27:41:50	300	88	3.0	#12 Symbiotic	2	
0105.COMP	10	04:44	06:03:31.0	+27:41:50	300	88	3.0	0 Calibration	2	
0106.HD19445	60	04:46	03:08:25.6	+26:19:51	300	88	3.0	#56 Spectropho	2	NON-photometric
0107.COMP	10	04:48	03:08:25.6	+26:19:51	300	88	3.0	0 Calibration	2	
0108.HD19445	300	04:49	03:08:25.6	+26:19:51	300	88	3.0	#56 Spectropho	2	heavy clouds
0109.COMP	10	04:55	03:08:25.6	+26:19:51	300	88	3.0	0 Calibration	2	
0110.gaia36	900	05:20	05:00:51.8	-09:30:57	600	89	1.5	#178 Low Mass	4	15 min exp on 10th mag star
0111.COMP	10	05:36	05:00:51.8	-09:30:57	600	88	1.5	0 Calibration	4	
0112.gaia36	900	05:36	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0113.COMP	10	05:52	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	
0114.gaia36	900	05:53	05:00:51.8	-09:30:57	600	85	1.5	#178 Low Mass	4	
0115.COMP	10	06:08	05:00:51.8	-09:30:57	600	85	1.5	0 Calibration	4	
0116.gaia36	900	06:09	05:00:51.8	-09:30:57	600	85	1.5	#178 Low Mass	4	
0117.COMP	10	06:25	05:00:51.8	-09:30:57	600	85	1.5	0 Calibration	4	stopping
0118.FLAT	12	06:41	05:00:51.8	-09:30:57	600	85	1.5	0 Calibration	4	x22

UT Date 2018-12-11 Observers W.BrownColl. Focus 1280 Grating/Grism 600

<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>
0119-0139.FLAT	12	06:48	05:00:51.8	-09:30:57	600	85	1.5	0 Calibration	4	
0140.BIAS	0	06:49	05:00:51.8	-09:30:57	600	85	1.5	0 Calibration	4	x20
0141-0159.BIAS	0	06:50	05:00:51.8	-09:30:57	600	85	1.5	0 Calibration	4	
0160.gaia36	900	08:04	05:00:51.8	-09:30:57	600	87	1.5	#178 Low Mass	4	
0161.COMP	10	08:21	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	
0163.gaia36	1200	08:52	05:00:51.8	-09:30:57	600	85	1.5	#178 Low Mass	4	
0164.COMP	10	09:12	05:00:51.8	-09:30:57	600	87	1.5	0 Calibration	4	deleting 162, 165, 166 no counts
0168-0172.DARK	900	13:43	10:39:36.7	+43:06:09	600	88	1.5	0 Calibration	4	

UT Date 2018-12-12 Observers CalkinsColl. Focus 1285 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	22:55	10:39:36.7	+43:06:09	600	88	1.5	0 Calibration	4	
0002-0006.DARK	900	23:57	10:39:36.7	+43:06:09	600	88	1.5	0 Calibration	2	
0007-0011.DARK	900	01:13	10:39:36.7	+43:06:09	600	88	1.5	0 Calibration	4	
0023.fastfoc	5	03:56	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0024.fastfoc	5	03:56	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0025.fastfoc	5	03:56	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0026.fastfoc	5	03:56	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0027.fastfoc	5	03:57	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0028.fastfoc	5	03:57	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0029.fastfoc	5	03:57	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0030.fastfoc	5	03:58	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0031.fastfoc	5	03:58	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0032.fastfoc	5	03:58	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0033.fastfoc	5	03:59	10:39:36.7	+43:06:09	300	88	1.5	#56 Spectropho	2	
0035.G191B2B	300	05:05	05:05:30.6	+52:49:52	300	88	1.5	#56 Spectropho	2	
0036.COMP	5	05:10	05:05:30.6	+52:49:52	300	88	1.5	0 Calibration	2	
0037.HD19445	10	05:29	03:08:25.6	+26:19:51	300	88	1.5	#56 Spectropho	2	
0038.HD19445	10	05:29	03:08:25.6	+26:19:51	300	88	1.5	#56 Spectropho	2	
0039.HD19445	10	05:30	03:08:25.6	+26:19:51	300	88	1.5	#56 Spectropho	2	
0040.COMP	5	05:30	03:08:25.6	+26:19:51	300	88	1.5	0 Calibration	2	

UT Date 2018-12-12 Observers CalkinsColl. Focus 1285 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0041.BRUTUS8464_4	1200	05:36	02:40:08.7	+07:17:23	300	88	1.5	#220 ASASSN Tr	2	
0042.COMP	5	05:57	02:40:08.7	+07:17:23	300	87	1.5	0 Calibration	2	
0043.BRUTUS8464_4	1800	06:02	02:40:08.7	+07:17:23	300	87	1.5	#220 ASASSN Tr	2	
0044.COMP	5	06:33	02:40:08.7	+07:17:23	300	87	1.5	0 Calibration	2	
0045.test	180	06:40	04:08:00.4	+25:02:42	300	86	1.5	#220 ASASSN Tr	2	
0046.COMP	5	06:43	04:08:00.4	+25:02:42	300	86	1.5	0 Calibration	2	
0047.GITau	240	06:46	04:33:34.0	+24:21:18	300	86	1.5	#12 Symbiotic	2	
0048.COMP	5	06:50	04:33:34.0	+24:21:18	300	86	1.5	0 Calibration	2	
0049.GKTau	240	06:52	04:33:34.5	+24:21:07	300	86	1.5	#12 Symbiotic	2	
0050.COMP	5	06:58	04:33:34.5	+24:21:07	300	86	1.5	0 Calibration	2	
0051-0060.FLAT	14	07:15	04:33:34.5	+24:21:07	300	86	1.5	0 Calibration	2	
0061-0070.BIAS	0	07:26	04:33:34.5	+24:21:07	300	86	1.5	0 Calibration	2	
0071.COMP	10	07:29	04:33:34.5	+24:21:07	300	86	3.0	0 Calibration	2	
0072.COMP	10	07:32	04:33:34.5	+24:21:07	300	86	3.0	0 Calibration	2	
0073.COMP	10	07:42	05:37:49.9	+31:30:40	300	86	3.0	0 Calibration	2	
0074.COMP	10	07:46	05:37:49.9	+31:30:40	300	86	3.0	0 Calibration	2	
0075.COMP	10	07:49	05:37:49.9	+31:30:40	300	86	3.0	0 Calibration	2	
0076.HD19445	10	07:59	03:08:25.6	+26:19:51	300	86	3.0	#56 Spectropho	2	
0077.COMP	10	08:00	03:08:25.6	+26:19:51	300	86	3.0	0 Calibration	2	
0078.Hiltner600	90	08:03	06:45:13.4	+02:08:15	300	86	3.0	#56 Spectropho	2	

UT Date 2018-12-12 Observers CalkinsColl. Focus 1285 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0079.COMP	10	08:05	06:45:13.4	+02:08:15	300	86	3.0	0 Calibration	2	
0080.BGGem	300	10:47	06:03:31.0	+27:41:50	300	86	3.0	#12 Symbiotic	2	
0081.COMP	10	10:53	06:03:31.0	+27:41:50	300	85	3.0	0 Calibration	2	
0082.BXMon	15	10:57	07:25:23.0	-03:35:51	300	85	3.0	#12 Symbiotic	2	
0083.BXMon	180	10:58	07:25:23.0	-03:35:51	300	85	3.0	#12 Symbiotic	2	
0084.COMP	10	11:02	07:25:23.0	-03:35:51	300	86	3.0	0 Calibration	2	
0085.Mkn110	400	11:06	09:25:12.9	+52:17:10	300	86	3.0	#227 Changing-	2	
0086.Mkn110	400	11:13	09:25:12.9	+52:17:10	300	86	3.0	#227 Changing-	2	
0087.Mkn110	400	11:19	09:25:12.9	+52:17:10	300	86	3.0	#227 Changing-	2	
0088.COMP	10	11:26	09:25:12.9	+52:17:10	300	86	3.0	0 Calibration	2	
0089.HD84937	25	11:28	09:48:56.1	+13:44:39	300	86	3.0	#56 Spectropho	2	
0090.COMP	10	11:29	09:48:56.1	+13:44:39	300	86	3.0	0 Calibration	2	
0091.Feige34	120	11:31	10:39:36.7	+43:06:09	300	86	3.0	#56 Spectropho	2	
0092.COMP	10	11:34	10:39:36.7	+43:06:09	300	86	3.0	0 Calibration	2	
0093.AT2018hyz	1800	11:36	10:06:50.7	+01:41:34	300	86	3.0	#225	2	
0094.COMP	10	12:20	10:06:50.7	+01:41:34	300	86	3.0	0 Calibration	2	
0095-0104.BIAS	0	12:49	10:06:50.7	+01:41:34	300	86	3.0	0 Calibration	2	
0105-0124.FLAT	7	12:56	10:06:50.7	+01:41:34	300	86	3.0	0 Calibration	2	
0125-0134.DARK	900	15:15	10:06:50.7	+01:41:34	300	86	3.0	0 Calibration	2	
comp300+600.ms	10	05:47	10:39:36.9	+43:06:11	300	90	3.0	#56 Spectropho	1	