

UT Date 2016-07-02 Observers M CalkinsColl. Focus 1320 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0007.DARK	900	02:47	12:10:52.4	+31:35:51	300	87	3.0	0 Calibration	4	
0008-0017.BIAS	0	03:16	12:10:52.4	+31:35:51	300	87	3.0	0 Calibration	4	
0018-0037.FLAT	7	03:25	12:10:52.4	+31:35:51	300	87	3.0	0 Calibration	2	
0038-0047.BIAS	0	03:28	12:10:52.4	+31:35:51	300	87	3.0	0 Calibration	2	
0048.BDp262606	25	03:45	14:49:02.4	+25:42:09	300	87	3.0	#56 Spectropho	2	
0049.COMP	10	03:46	14:49:02.4	+25:42:09	300	87	3.0	0 Calibration	2	
0050.BDp332642	120	03:50	15:51:59.9	+32:56:54	300	87	3.0	#56 Spectropho	2	
0051.COMP	10	03:54	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	2	
0052.TCrB	15	03:55	15:59:30.0	+25:55:12	300	86	3.0	#12 Symbiotic	2	
0053.TCrB	60	03:56	15:59:30.0	+25:55:12	300	86	3.0	#12 Symbiotic	2	
0054.COMP	10	03:57	15:59:30.0	+25:55:12	300	86	3.0	0 Calibration	2	
0055.AGDra	2	04:00	16:01:41.0	+66:48:10	300	86	3.0	#12 Symbiotic	2	
0056.AGDra	15	04:00	16:01:41.0	+66:48:10	300	86	3.0	#12 Symbiotic	2	
0057.AGDra	60	04:01	16:01:41.0	+66:48:10	300	86	3.0	#12 Symbiotic	2	
0058.COMP	10	04:02	16:01:41.0	+66:48:10	300	86	3.0	0 Calibration	2	
0059.DracoC1	1500	04:05	17:19:58.0	+57:50:06	300	86	3.0	#12 Symbiotic	2	
0060.COMP	10	04:30	17:19:58.0	+57:50:06	300	87	3.0	0 Calibration	2	
0061.snASASSN-16gq	1800	04:35	14:11:36.1	-30:23:53	300	87	3.0	#220 ASASSN Tr	2	
0062.COMP	10	05:05	14:11:36.1	-30:23:53	300	87	3.0	0 Calibration	2	
0063.snASASSN-16gn	1800	05:10	12:06:57.6	+27:18:05	300	87	3.0	#220 ASASSN Tr	2	

UT Date 2016-07-02 Observers M CalkinsColl. Focus 1320 Grating/Grism 600

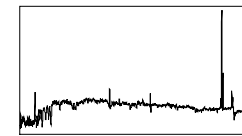
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0064.COMP	10	05:40	12:06:57.6	+27:18:05	300	88	3.0	0 Calibration	2	
0065.j1406m11	987	05:57	14:06:34.7	-11:17:02	600	88	1.5	#178 Low Mass	4	
0066.COMP	10	06:14	14:06:34.7	-11:17:02	600	88	1.5	0 Calibration	4	
0067-0076.FLAT	12	07:22	14:15:04.1	-14:10:30	600	88	1.5	0 Calibration	4	
0077.j1731p04	1500	08:32	17:31:26.7	+04:29:35	600	88	1.5	#178 Low Mass	4	
0078.COMP	10	08:58	17:31:26.7	+04:29:35	600	88	1.5	0 Calibration	4	
0079.j1957p34	1409	10:23	19:57:50.8	+34:04:04	600	88	1.5	#178 Low Mass	4	
0080.COMP	10	10:46	19:57:50.8	+34:04:04	600	87	1.5	0 Calibration	4	
0081.BDp284211	120	10:49	21:51:11.0	+28:51:50	600	87	1.5	#56 Spectropho	4	
0082.COMP	10	10:52	21:51:11.0	+28:51:50	600	87	1.5	0 Calibration	4	
0083.j1958p32	1430	10:54	19:58:13.8	+32:33:18	600	87	1.5	#178 Low Mass	4	
0084.COMP	10	11:19	19:58:13.8	+32:33:18	600	86	1.5	0 Calibration	4	

UT Date 2016-07-03 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	02:09	19:58:13.8	+32:33:18	600	86	1.5	0 Calibration	4	
0006-0010.DARK	900	03:25	19:58:13.8	+32:33:18	600	86	1.5	0 Calibration	2	
0011-0020.BIAS	0	05:14	19:58:13.8	+32:33:18	300	86	3.0	0 Calibration	4	
0021-0040.FLAT	7	05:21	19:58:13.8	+32:33:18	300	86	3.0	0 Calibration	2	
0041-0050.BIAS	0	05:23	19:58:13.8	+32:33:18	300	86	3.0	0 Calibration	2	
0051.BDp262606	40	05:25	14:49:02.4	+25:42:09	300	86	3.0	#56 Spectropho	2	
0052.COMP	10	05:26	14:49:02.4	+25:42:09	300	87	3.0	0 Calibration	2	
0053.BDp332642	120	05:29	15:51:59.9	+32:56:54	300	87	3.0	#56 Spectropho	2	
0054.COMP	10	05:32	15:51:59.9	+32:56:54	300	87	3.0	0 Calibration	2	
0055.PS16cva	1800	06:04	18:49:15.4	+41:07:16	300	87	3.0	#225 SLSNe and	2	
0056.COMP	10	06:35	18:49:15.4	+41:07:16	300	85	3.0	0 Calibration	2	
0057.PS16cvb	1800	06:38	19:08:42.2	+49:44:17	300	85	3.0	#225 SLSNe and	2	
0058.PS16cvb	1800	07:08	19:08:42.2	+49:44:17	300	85	3.0	#225 SLSNe and	2	
0059.COMP	10	07:39	19:08:42.2	+49:44:17	300	84	3.0	0 Calibration	2	
0060.PS16cvh	1800	08:14	22:40:11.8	+30:19:17	300	84	3.0	#225 SLSNe and	2	row=89
0061.PS16cvh	1800	08:44	22:40:11.8	+30:19:17	300	84	3.0	#225 SLSNe and	2	
0062.COMP	10	09:14	22:40:11.8	+30:19:17	300	78	3.0	0 Calibration	2	
0063.snAT2016cvv	1800	09:56	19:20:28.8	+54:12:31	300	84	3.0	#2 SN Observat	2	
0064.COMP	10	10:27	19:20:28.8	+54:12:31	300	86	3.0	0 Calibration	2	
0065.snASASSN-16ft	1800	10:32	23:56:13.7	-00:32:28	300	30	3.0	#220 ASASSN Tr	2	

UT Date 2016-07-03 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.COMP	10	11:02	23:56:13.7	-00:32:28	300	30	3.0	0 Calibration	2	
0067.BFCyg	15	11:05	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0068.BFCyg	15	11:06	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0069.COMP	10	11:06	19:23:53.0	+29:40:27	300	89	3.0	0 Calibration	2	
0070.CHCyg	1	11:08	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0071.CHCyg	5	11:08	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0072.CHCyg	30	11:08	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0073.COMP	10	11:10	19:24:33.0	+50:14:30	300	89	3.0	0 Calibration	2	
0074.HMSge	1	11:11	19:41:57.0	+16:44:41	300	89	3.0	#12 Symbiotic	2	
0075.HMSge	10	11:12	19:41:57.0	+16:44:41	300	89	3.0	#12 Symbiotic	2	
0076.HMSge	60	11:12	19:41:57.0	+16:44:41	300	89	3.0	#12 Symbiotic	2	
0077.COMP	10	11:13	19:41:57.0	+16:44:41	300	89	3.0	0 Calibration	2	
0078.AS360	60	11:15	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0079.AS360	300	11:16	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0080.COMP	10	11:22	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0081-0090.BIAS	0	11:26	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0091-0110.FLAT	7	11:35	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0111-0120.BIAS	0	11:39	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0121-0125.DARK	900	12:43	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	4	
0126-0130.DARK	900	14:00	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	

UT Date 2016-07-04 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	02:00	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	4	
0006-0010.DARK	900	03:16	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0011-0020.BIAS	0	03:34	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	03:41	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	03:44	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0051.snASASSN-16go	1500	03:50	13:02:44.3	-26:56:27	300	1	3.0	#220 ASASSN Tr	2	
0052.COMP	10	04:16	13:02:44.3	-26:56:27	300	-1	3.0	0 Calibration	2	
0053.snASASSN-16gn	1800	04:22	12:06:57.6	+27:18:05	300	90	3.0	#220 ASASSN Tr	2	not there....?
0054.COMP	10	04:53	12:06:57.6	+27:18:05	300	88	3.0	0 Calibration	2	
0055.snASASSN-16gq	1800	04:57	14:11:36.1	-30:23:53	300	88	3.0	#220 ASASSN Tr	2	
0056.COMP	10	05:27	14:11:36.1	-30:23:53	300	88	3.0	0 Calibration	2	
0057.BDp262606	80	05:31	14:49:02.4	+25:42:09	300	88	3.0	#56 Spectropho	2	
0058.COMP	10	05:33	14:49:02.4	+25:42:09	300	88	3.0	0 Calibration	2	
0059.BDp332642	120	05:35	15:51:59.9	+32:56:54	300	88	3.0	#56 Spectropho	2	
0060.COMP	10	05:38	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0061.N5866	180	05:44	15:06:29.5	+55:45:48	300	89	3.0	#57 Velocity S	2	
0062.COMP	10	05:47	15:06:29.5	+55:45:48	300	89	3.0	0 Calibration	2	
0063.j1404p09	1280	05:55	14:04:23.7	+09:36:41	600	89	1.5	#178 Low Mass	4	
0064.COMP	10	06:17	14:04:23.7	+09:36:41	600	89	1.5	0 Calibration	4	
0065.j1559p59	1700	06:19	15:59:40.4	+59:26:34	600	89	1.5	#178 Low Mass	4	

UT Date 2016-07-04 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.COMP	10	06:48	15:59:40.4	+59:26:34	600	89	1.5	0 Calibration	4	
0067.j1601p38	518	06:50	16:01:52.2	+38:04:55	600	89	1.5	#178 Low Mass	4	
0068.COMP	10	06:59	16:01:52.2	+38:04:55	600	89	1.5	0 Calibration	4	
0069.j1604p14	792	07:01	16:04:28.8	+14:50:48	600	89	1.5	#178 Low Mass	4	
0070.COMP	10	07:15	16:04:28.8	+14:50:48	600	89	1.5	0 Calibration	4	
0071.j1608p08	1287	07:16	16:08:05.3	+08:45:10	600	89	1.5	#178 Low Mass	4	
0072.COMP	10	07:38	16:08:05.3	+08:45:10	600	90	1.5	0 Calibration	4	
0073.j1610p63	1339	07:42	16:10:23.2	+63:00:52	600	90	1.5	#178 Low Mass	4	
0074.COMP	10	08:04	16:10:23.2	+63:00:52	600	89	1.5	0 Calibration	4	
0075.BDp332642	150	08:06	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	bad....
0076.COMP	10	08:09	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0077.BDp332642	150	08:12	15:51:59.9	+32:56:54	600	90	1.5	#56 Spectropho	4	bad
0078.COMP	10	08:16	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0079.j1732p23	1532	08:19	17:32:08.8	+23:02:03	600	90	1.5	#178 Low Mass	4	adc not working?
0080.COMP	10	08:45	17:32:08.8	+23:02:03	600	90	1.5	0 Calibration	4	
0081.BDp332642	150	08:47	15:51:59.9	+32:56:54	600	90	1.5	#56 Spectropho	4	adc on
0082.COMP	10	08:50	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0083.BDp332642	150	08:54	15:51:59.9	+32:56:54	600	73	1.5	#56 Spectropho	4	bad
0084.COMP	10	08:57	15:51:59.9	+32:56:54	600	72	1.5	0 Calibration	4	
0085.BDp332642	150	08:58	15:51:59.9	+32:56:54	600	72	1.5	#56 Spectropho	4	adc off, rotated to parallactic

UT Date 2016-07-04 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0086.COMP	10	09:01	15:51:59.9	+32:56:54	600	72	1.5	0 Calibration	4	
0087.j1732p23	1532	09:04	17:32:08.8	+23:02:03	600	67	1.5	#178 Low Mass	4	bad
0088.COMP	10	09:30	17:32:08.8	+23:02:03	600	68	1.5	0 Calibration	4	
0089.j1732p23	1532	09:31	17:32:08.8	+23:02:03	600	68	1.5	#178 Low Mass	4	
0090.COMP	10	09:57	17:32:08.8	+23:02:03	600	68	1.5	0 Calibration	4	
0091.j2001p10	1306	10:00	20:01:09.7	+09:48:34	600	39	1.5	#178 Low Mass	4	bad
0092.COMP	10	10:23	20:01:09.7	+09:48:34	600	39	1.5	0 Calibration	4	
0093.j2001p10	1306	10:24	20:01:09.7	+09:48:34	600	39	1.5	#178 Low Mass	4	row=44
0094.COMP	10	10:47	20:01:09.7	+09:48:34	600	39	1.5	0 Calibration	4	
0095.BIAS	0	10:51	20:01:23.0	+10:57:18	600	52	1.5	0 Calibration	4	
0096.j2001p10	1500	10:51	20:01:23.0	+10:57:18	600	52	1.5	#178 Low Mass	4	
0097.COMP	10	11:20	20:01:23.0	+10:57:18	600	51	1.5	0 Calibration	4	
0098-0107.FLAT	12	11:39	20:01:23.0	+10:57:18	600	51	1.5	0 Calibration	4	
0108-0117.BIAS	0	11:46	20:01:23.0	+10:57:18	600	51	1.5	0 Calibration	4	
0118.COMP	5	12:00	20:01:23.0	+10:57:18	300	90	3.0	0 Calibration	4	
0119-0123.DARK	900	13:02	20:01:23.0	+10:57:18	300	90	3.0	0 Calibration	4	
0124-0128.DARK	900	14:19	20:01:23.0	+10:57:18	300	90	3.0	0 Calibration	2	

UT Date 2016-07-05 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	02:44	12:58:35.2	+27:35:47	300	90	3.0	0 Calibration	2	
0011-0023.FLAT	7	02:49	12:58:35.2	+27:35:47	300	90	3.0	0 Calibration	2	
0024.FLAT	7	02:49	12:58:35.2	+27:35:47	300	90	3.0	0 Calibration	2	ADC is off for the night
0025.FLAT	7	02:50	12:58:35.2	+27:35:47	300	90	3.0	0 Calibration	2	except for 2 files with adcon in name
0027.Feige34	180	03:19	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0028.COMP	10	03:24	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	
0029.BDp262606	90	03:26	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0030.BDp262606	90	03:29	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0031.COMP	10	03:31	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0032.BDp332642	120	03:32	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0033.COMP	10	03:35	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0034.snGaia16apd	1200	03:40	12:02:51.7	+44:15:27	300	89	3.0	#225 SLSNe and	2	
0035.snGaia16apd	1200	04:00	12:02:51.7	+44:15:27	300	89	3.0	#225 SLSNe and	2	
0036.snGaia16apd	1200	04:22	12:02:51.7	+44:15:27	300	89	3.0	#225 SLSNe and	2	
0037.COMP	10	04:42	12:02:51.7	+44:15:27	300	89	3.0	0 Calibration	2	
0038.PS16cva	1200	04:46	18:49:15.4	+41:07:16	300	86	3.0	#225 SLSNe and	2	
0039.PS16cva	1200	05:07	18:49:15.4	+41:07:16	300	86	3.0	#225 SLSNe and	2	
0040.PS16cva	1200	05:27	18:49:15.4	+41:07:16	300	86	3.0	#225 SLSNe and	2	
0041.COMP	10	05:47	18:49:15.4	+41:07:16	300	87	3.0	0 Calibration	2	
0042.BDp332642	120	05:50	15:51:59.9	+32:56:54	300	87	3.0	#56 Spectropho	2	



UT Date 2016-07-05 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0043.BDp332642.ADCON	120	05:56	15:51:59.9	+32:56:54	300	87	3.0	#56 Spectropho	2	
0044.COMP	10	05:58	15:51:59.9	+32:56:54	300	87	3.0	0 Calibration	2	
0045.HZ44.ADCON	120	06:02	13:23:35.3	+36:07:59	300	87	3.0	#56 Spectropho	2	
0046.HZ44	120	06:06	13:23:35.3	+36:07:59	300	87	3.0	#56 Spectropho	2	
0047.COMP	10	06:09	13:23:35.3	+36:07:59	300	87	3.0	0 Calibration	2	
0048.FLAT	12	06:17	17:29:42.7	+25:42:57	600	87	1.5	0 Calibration	4	600-line, 1.5-sec, blue
0049-0062.FLAT	12	06:22	17:29:42.7	+25:42:57	600	87	1.5	0 Calibration	4	
0063.BDp332642	120	06:24	15:51:59.9	+32:56:54	600	84	1.5	#56 Spectropho	4	
0064.COMP	10	06:27	15:51:59.9	+32:56:54	600	84	1.5	0 Calibration	4	
0065.j1830p22	1500	06:29	18:30:12.8	+22:04:47	600	90	1.5	#178 Low Mass	4	
0066.COMP	10	06:55	18:30:12.8	+22:04:47	600	90	1.5	0 Calibration	4	
0067.j1854p19	1500	06:57	18:54:03.4	+19:24:47	600	90	1.5	#178 Low Mass	4	
0068.COMP	10	07:22	18:54:03.4	+19:24:47	600	90	1.5	0 Calibration	4	
0069.j1854p20	1800	07:24	18:54:14.7	+20:29:39	600	90	1.5	#178 Low Mass	4	
0070.COMP	10	07:55	18:54:14.7	+20:29:39	600	89	1.5	0 Calibration	4	
0071.j1940p13	1500	07:58	19:40:42.5	+13:31:17	600	0	1.5	#178 Low Mass	4	
0072.COMP	10	08:23	19:40:42.5	+13:31:17	600	0	1.5	0 Calibration	4	
0073.ec20279-1520	200	08:26	20:30:42.5	-15:10:26	600	-4	1.5	#178 Low Mass	4	
0074.COMP	10	08:30	20:30:42.5	-15:10:26	600	-5	1.5	0 Calibration	4	
0075.ec20305-1417	150	08:32	20:33:22.2	-14:07:03	600	-4	1.5	#178 Low Mass	4	

UT Date 2016-07-05 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0076.COMP	10	08:34	20:33:22.2	-14:07:03	600	-4	1.5	0 Calibration	4	
0077.ec20296-1840	900	08:36	20:32:33.2	-18:29:58	600	-4	1.5	#178 Low Mass	4	
0078.COMP	10	08:52	20:32:33.2	-18:29:58	600	-4	1.5	0 Calibration	4	
0079.ec20296-1429	1200	08:55	20:32:28.6	-14:19:02	600	-4	1.5	#178 Low Mass	4	stopped by clouds
0080.COMP	10	09:16	20:32:28.6	-14:19:02	600	-4	1.5	0 Calibration	4	
0081.test	10	10:40	20:34:04.7	-13:03:55	300	5	3.0	#178 Low Mass	2	
0082.snASASSN-16fp	600	10:44	21:59:04.1	+18:11:11	300	25	3.0	#220 ASASSN Tr	2	
0083.snASASSN-16fp	600	10:54	21:59:04.1	+18:11:11	300	25	3.0	#220 ASASSN Tr	2	
0084.snASASSN-16fp	600	11:04	21:59:04.1	+18:11:11	300	25	3.0	#220 ASASSN Tr	2	
0085.COMP	10	11:14	21:59:04.1	+18:11:11	300	24	3.0	0 Calibration	2	
0086.BDp174708	90	11:16	22:11:31.4	+18:05:34	300	24	3.0	#56 Spectropho	2	
0087.COMP	10	11:18	22:11:31.4	+18:05:34	300	24	3.0	0 Calibration	2	
0088.BDp284211	150	11:19	21:51:11.0	+28:51:50	300	76	3.0	#56 Spectropho	2	
0089.COMP	10	11:22	21:51:11.0	+28:51:50	300	76	3.0	0 Calibration	2	
0090-0099.BIAS	0	11:26	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0100-0114.FLAT	7	11:32	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0115-0124.BIAS	0	11:34	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	4	
0125-0129.DARK	900	12:39	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0130-0134.DARK	900	13:55	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	4	

UT Date 2016-07-06 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	22:34	10:04:12.5	+24:38:49	300	90	3.0	0 Calibration	4	
0011-0020.DARK	1200	01:37	10:04:12.5	+24:38:49	300	90	3.0	0 Calibration	4	
0021-0030.BIAS	0	02:45	14:38:15.8	+27:29:33	300	90	3.0	0 Calibration	2	
0031-0045.FLAT	7	02:51	14:38:15.8	+27:29:33	300	90	3.0	0 Calibration	2	
0046.test.BDp262606	90	03:22	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0047.test.BDp262606	90	03:25	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0048.test.BDp332642	120	03:28	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0049.test.BDp262606.ADCON	90	03:31	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0050.test.BDp332642.ADCON	120	03:34	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0051.COMP	10	03:37	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0052.test.Feige34.ADCON	180	03:40	10:39:36.7	+43:06:09	300	80	3.0	#56 Spectropho	2	
0053.test.Feige34	180	03:45	10:39:36.7	+43:06:09	300	80	3.0	#56 Spectropho	2	
0054.test.BDp262606.ADCON	90	03:50	14:49:02.4	+25:42:09	300	51	3.0	#56 Spectropho	2	
0055.test.BDp262606.ADCON	90	03:52	14:49:02.4	+25:42:09	300	51	3.0	#56 Spectropho	2	
0056.test.Feige34.ADCON	180	03:56	10:39:36.7	+43:06:09	300	76	3.0	#56 Spectropho	2	
0057.test.Feige66.ADCON	120	04:01	12:37:23.5	+25:04:00	300	70	3.0	#56 Spectropho	2	
0058.test.Feige66	120	04:07	12:37:23.5	+25:04:00	300	70	3.0	#56 Spectropho	2	
0059.COMP	10	04:09	12:37:23.5	+25:04:00	300	71	3.0	0 Calibration	2	
0060.snASASSN-16gu	1200	04:15	12:50:50.1	+25:31:14	300	71	3.0	#220 ASASSN Tr	2	
0061.snASASSN-16gu	1200	04:35	12:50:50.1	+25:31:14	300	71	3.0	#220 ASASSN Tr	2	

UT Date 2016-07-06 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0062.COMP	10	04:56	12:50:50.1	+25:31:14	300	71	3.0	0 Calibration	2	
0063.BDp332642	120	05:00	15:51:59.9	+32:56:54	300	71	3.0	#56 Spectropho	2	
0064.test.BDp332642.ADCON	120	05:04	15:51:59.9	+32:56:54	300	71	3.0	#56 Spectropho	2	
0065.COMP	10	05:07	15:51:59.9	+32:56:54	300	71	3.0	0 Calibration	2	
0066.test.Feige66.ADCON	120	05:08	12:37:23.5	+25:04:00	300	71	3.0	#56 Spectropho	2	
0067.test.Feige66	120	05:12	12:37:23.5	+25:04:00	300	71	3.0	#56 Spectropho	2	
0068.COMP	10	05:15	12:37:23.5	+25:04:00	300	71	3.0	0 Calibration	2	
0069.test.BDp404032.ADCON	120	05:18	20:08:24.1	+41:15:04	300	89	3.0	#56 Spectropho	2	
0070.test.BDp404032	120	05:30	20:08:24.1	+41:15:04	300	89	3.0	#56 Spectropho	2	
0071.COMP	10	05:33	20:08:24.1	+41:15:04	300	89	3.0	0 Calibration	2	
0072-0086.FLAT	12	05:42	17:29:42.7	+25:42:57	600	89	1.5	0 Calibration	4	
0087.BDp332642	120	05:44	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	
0088.COMP	10	05:46	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	
0089.j1630p26	1600	05:48	16:30:41.8	+26:39:59	600	89	1.5	#178 Low Mass	4	
0090.COMP	10	06:15	16:30:41.8	+26:39:59	600	89	1.5	0 Calibration	4	
0091.j1635p13	1600	06:18	16:35:37.9	+13:44:00	600	45	1.5	#178 Low Mass	4	
0092.COMP	10	06:45	16:35:37.9	+13:44:00	600	45	1.5	0 Calibration	4	
0093.j1647p17	1800	06:47	16:47:34.6	+17:11:37	600	45	1.5	#178 Low Mass	4	
0094.COMP	10	07:18	16:47:34.6	+17:11:37	600	45	1.5	0 Calibration	4	
0095.j1717p09	1800	07:20	17:17:20.6	+09:41:32	600	45	1.5	#178 Low Mass	4	

UT Date 2016-07-06 Observers P BerlindColl. Focus 1320 Grating/Grism 300

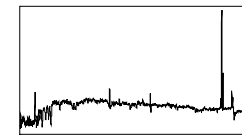
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0096.COMP	10	07:51	17:17:20.6	+09:41:32	600	45	1.5	0 Calibration	4	
0097.j1821p13	1800	07:53	18:21:16.9	+13:11:53	600	35	1.5	#178 Low Mass	4	
0098.COMP	10	08:24	18:21:16.9	+13:11:53	600	35	1.5	0 Calibration	4	
0099.ec20313-1314	1020	08:28	20:34:04.7	-13:03:55	600	0	1.5	#178 Low Mass	4	
0100.COMP	10	08:45	20:34:04.7	-13:03:55	600	0	1.5	0 Calibration	4	
0101.ec20318-2214	1020	08:46	20:34:47.7	-22:03:50	600	0	1.5	#178 Low Mass	4	
0102.COMP	10	09:04	20:34:47.7	-22:03:50	600	0	1.5	0 Calibration	4	
0103.ec20344-2055	900	09:05	20:37:18.7	-20:45:18	600	0	1.5	#178 Low Mass	4	
0104.COMP	10	09:21	20:37:18.7	-20:45:18	600	0	1.5	0 Calibration	4	
0105.test	10	10:03	22:30:00.0	+32:00:00	300	90	3.0	#178 Low Mass	2	
0106.PS16cvh	1200	10:08	22:40:11.8	+30:19:17	300	90	3.0	#225 SLSNe and	2	
0107.PS16cvh	1200	10:28	22:40:11.8	+30:19:17	300	90	3.0	#225 SLSNe and	2	
0108.PS16cvh	1200	10:48	22:40:11.8	+30:19:17	300	90	3.0	#225 SLSNe and	2	
0109.COMP	10	11:08	22:40:11.8	+30:19:17	300	89	3.0	0 Calibration	2	
0110.BDp284211	150	11:10	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0111.COMP	10	11:13	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0112.BDp174708	90	11:14	22:11:31.4	+18:05:34	300	33	3.0	#56 Spectropho	2	
0113.COMP	10	11:16	22:11:31.4	+18:05:34	300	33	3.0	0 Calibration	2	
0114.BDp174708	90	11:17	22:11:31.4	+18:05:34	300	33	3.0	#56 Spectropho	2	
0115-0124.BIAS	0	11:29	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	

UT Date 2016-07-06 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>
0125-0139.FLAT	7	11:35	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	
0140-0144.DARK	1200	12:57	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	

UT Date 2016-07-07 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	03:08	13:23:35.3	+36:07:59	300	89	3.0	0 Calibration	2	
0006-0010.DARK	900	04:25	13:23:35.3	+36:07:59	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	06:05	13:23:35.3	+36:07:59	300	89	3.0	0 Calibration	2	
0021-0035.FLAT	7	06:10	13:23:35.3	+36:07:59	300	89	3.0	0 Calibration	2	
0036.RSOph	60	06:16	17:50:13.0	-06:42:30	300	0	3.0	#12 Symbiotic	2	
0037.RSOph	150	06:17	17:50:13.0	-06:42:30	300	0	3.0	#12 Symbiotic	2	
0038.COMP	10	06:20	17:50:13.0	-06:42:30	300	0	3.0	0 Calibration	2	
0039.AS270	60	06:21	18:05:33.7	-20:20:38	300	0	3.0	#12 Symbiotic	2	
0040.AS270	353	06:23	18:05:33.7	-20:20:38	300	0	3.0	#12 Symbiotic	2	
0041.COMP	10	06:29	18:05:33.7	-20:20:38	300	0	3.0	0 Calibration	2	
0042.Hen1591	120	06:31	18:07:32.0	-25:53:43	300	0	3.0	#12 Symbiotic	2	
0043.Hen1591	720	06:34	18:07:32.0	-25:53:43	300	0	3.0	#12 Symbiotic	2	
0044.COMP	10	06:46	18:07:32.0	-25:53:43	300	0	3.0	0 Calibration	2	
0045.AS281	120	06:47	18:10:44.0	-27:57:51	300	0	3.0	#12 Symbiotic	2	corrupted image. slit vignetted
0046.COMP	10	06:51	18:10:44.0	-27:57:51	300	0	3.0	0 Calibration	2	
0047.AS281	720	06:51	18:10:44.0	-27:57:51	300	0	3.0	#12 Symbiotic	2	
0048.COMP	10	07:04	18:10:44.0	-27:57:51	300	1	3.0	0 Calibration	2	
0049.Hen1674	120	07:08	18:20:19.1	-26:22:46	300	1	3.0	#12 Symbiotic	2	
0050.Hen1674	900	07:10	18:20:19.1	-26:22:46	300	1	3.0	#12 Symbiotic	2	
0051.COMP	10	07:26	18:20:19.1	-26:22:46	300	0	3.0	0 Calibration	2	

UT Date 2016-07-07 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0052.AS316	60	07:28	18:42:33.0	-21:17:47	300	0	3.0	#12 Symbiotic	2	corrupted image
0053.AS316	60	07:29	18:42:33.0	-21:17:47	300	0	3.0	#12 Symbiotic	2	good image
0054.AS316	600	07:31	18:42:33.0	-21:17:47	300	0	3.0	#12 Symbiotic	2	corrupted image
0055.COMP	10	07:42	18:42:33.0	-21:17:47	300	0	3.0	0 Calibration	2	good image
0056.AS316	600	07:43	18:42:33.0	-21:17:47	300	0	3.0	#12 Symbiotic	2	
0057.AS327	60	07:54	18:53:17.0	-24:22:59	300	1	3.0	#12 Symbiotic	2	
0058.AS327	600	07:56	18:53:17.0	-24:22:59	300	1	3.0	#12 Symbiotic	2	
0059.COMP	10	08:06	18:53:17.0	-24:22:59	300	1	3.0	0 Calibration	2	
0060.YYHer	30	08:10	18:14:34.0	+20:59:19	300	55	3.0	#12 Symbiotic	2	corrupted image
0061.YYHer	30	08:11	18:14:34.0	+20:59:19	300	55	3.0	#12 Symbiotic	2	
0062.YYHer	90	08:25	18:14:34.0	+20:59:19	300	55	3.0	#12 Symbiotic	2	
0063.YYHer	360	08:27	18:14:34.0	+20:59:19	300	55	3.0	#12 Symbiotic	2	
0064.COMP	10	08:34	18:14:34.0	+20:59:19	300	55	3.0	0 Calibration	2	
0065.AS296	10	08:36	18:15:07.0	-00:18:52	300	55	3.0	#12 Symbiotic	2	
0066.AS296	45	08:36	18:15:07.0	-00:18:52	300	55	3.0	#12 Symbiotic	2	
0067.AS296	180	08:37	18:15:07.0	-00:18:52	300	55	3.0	#12 Symbiotic	2	
0068.COMP	10	08:41	18:15:07.0	-00:18:52	300	55	3.0	0 Calibration	2	
0069.V443Her	10	08:43	18:22:07.0	+23:27:20	300	55	3.0	#12 Symbiotic	2	
0070.V443Her	120	08:43	18:22:07.0	+23:27:20	300	55	3.0	#12 Symbiotic	2	
0071.COMP	10	08:46	18:22:07.0	+23:27:20	300	55	3.0	0 Calibration	2	



UT Date 2016-07-07 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0072.V919Sgr	120	08:50	19:03:45.0	-16:59:56	300	55	3.0	#12 Symbiotic	2	
0073.V919Sgr	900	08:52	19:03:45.0	-16:59:56	300	55	3.0	#12 Symbiotic	2	
0074.COMP	10	09:08	19:03:45.0	-16:59:56	300	55	3.0	0 Calibration	2	
0075.BDp284211	300	09:13	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0076.COMP	10	09:19	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0077.BDp174708	120	09:20	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0078.COMP	10	09:22	22:11:31.4	+18:05:34	300	90	3.0	0 Calibration	2	
0079.snASASSN-16fp	900	09:25	21:59:04.1	+18:11:11	300	0	3.0	#220 ASASSN Tr	2	
0080.snASASSN-16fp	900	09:40	21:59:04.1	+18:11:11	300	0	3.0	#220 ASASSN Tr	2	
0081.snASASSN-16fp	900	09:55	21:59:04.1	+18:11:11	300	0	3.0	#220 ASASSN Tr	2	
0082.COMP	10	10:10	21:59:04.1	+18:11:11	300	0	3.0	0 Calibration	2	
0083-0092.BIAS	0	10:17	21:59:04.1	+18:11:11	300	89	3.0	0 Calibration	2	
0093-0107.FLAT	7	10:23	21:59:04.1	+18:11:11	300	89	3.0	0 Calibration	2	

UT Date 2016-07-08 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0004.DARK	900	03:01	13:51:26.3	+31:35:09	300	90	3.0	0 Calibration	4	
0005-0014.BIAS	0	03:18	13:51:26.3	+31:35:09	300	90	3.0	0 Calibration	4	
0015-0034.FLAT	7	03:25	13:51:26.3	+31:35:09	300	90	3.0	0 Calibration	2	
0035-0044.BIAS	0	03:28	13:51:26.3	+31:35:09	300	90	3.0	0 Calibration	2	
0045.Feige34	120	03:39	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	ADC on, airmass 1.75
0046.COMP	10	03:42	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	
0047.Feige34	120	03:48	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	shutter failure
0048.COMP	10	03:50	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	
0049.Feige34	120	03:51	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	shutter failure
0050.COMP	10	03:54	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	shutter failure
0051.Feige34	120	03:55	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	adc off, airmass 1.95
0052.COMP	10	03:57	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	shutter failure
0053.COMP	10	03:58	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0054.Feige34	120	04:01	10:39:36.7	+43:06:09	300	74	3.0	#56 Spectropho	2	shutter failure
0055.Feige34	120	04:04	10:39:36.7	+43:06:09	300	74	3.0	#56 Spectropho	2	adc off, roatated to 74, airmass = 2
0056.COMP	10	04:07	10:39:36.7	+43:06:09	300	74	3.0	0 Calibration	2	shutter failure
0057.COMP	10	04:08	10:39:36.7	+43:06:09	300	74	3.0	0 Calibration	2	
0058.COMP	10	04:13	15:54:01.8	+31:33:09	300	74	3.0	0 Calibration	2	shutter failure
0059.COMP	10	04:26	16:07:30.3	+31:32:53	300	89	3.0	0 Calibration	2	
0060.COMP	10	04:28	16:07:30.3	+31:32:53	300	89	3.0	0 Calibration	2	

UT Date 2016-07-08 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

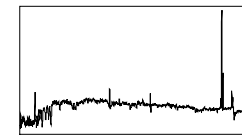
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0061.BDp332642	120	04:30	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0062.COMP	10	04:33	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0063.BDp262606	35	04:35	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0064.COMP	10	04:36	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0065.AGDra	2	04:41	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0066.AGDra	15	04:41	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0067.AGDra	60	04:42	16:01:41.0	+66:48:10	300	87	3.0	#12 Symbiotic	2	
0068.COMP	10	04:44	16:01:41.0	+66:48:10	300	87	3.0	0 Calibration	2	
0069.AS210	5	04:49	16:51:20.3	-26:00:33	300	87	3.0	#12 Symbiotic	2	
0070.AS210	300	04:49	16:51:20.3	-26:00:33	300	87	3.0	#12 Symbiotic	2	
0071.COMP	10	04:55	16:51:20.3	-26:00:33	300	90	3.0	0 Calibration	2	
0072.Hen1341	12	04:57	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0073.Hen1341	30	04:59	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0074.Hen1341	60	05:01	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0075.COMP	10	05:03	17:08:36.0	-17:26:30	300	90	3.0	0 Calibration	2	
0076.snASASSN-16hc	1800	05:07	13:59:04.5	+33:08:20	300	109	3.0	#220 ASASSN Tr	2	
0077.COMP	10	05:37	13:59:04.5	+33:08:20	300	109	3.0	0 Calibration	2	
0078.PS16cvb	1800	05:45	19:08:42.2	+49:44:17	300	90	3.0	#225 SLSNe and	2	
0079.COMP	10	06:16	19:08:42.2	+49:44:17	300	84	3.0	0 Calibration	2	
0080.PS16cva	1800	06:19	18:49:15.4	+41:07:16	300	84	3.0	#225 SLSNe and	2	

UT Date 2016-07-08 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0081.COMP	10	06:50	18:49:15.4	+41:07:16	300	84	3.0	0 Calibration	2	
0082.snPS16cvc	1800	07:00	21:12:23.4	+14:46:45	300	84	3.0	#2 SN Observat	2	
0083.COMP	10	07:32	21:12:23.4	+14:46:45	300	89	3.0	0 Calibration	2	
0084.snASASSN-16gs	1800	07:36	20:17:27.5	-16:33:07	300	89	3.0	#220 ASASSN Tr	2	
0085.COMP	10	08:06	20:17:27.5	-16:33:07	300	89	3.0	0 Calibration	2	
0086.snAT2016cvw	2100	08:14	22:46:12.8	+10:33:33	300	89	3.0	#2 SN Observat	2	
0087.COMP	10	08:49	22:46:12.8	+10:33:33	300	90	3.0	0 Calibration	2	
0088.ec20406-2203	772	09:00	20:43:35.2	-21:52:27	600	90	1.5	#178 Low Mass	4	
0089.COMP	10	09:13	20:43:35.2	-21:52:27	600	89	1.5	0 Calibration	4	
0090.BDp284211	120	09:16	21:51:11.0	+28:51:50	600	89	1.5	#56 Spectropho	4	
0091.COMP	10	09:19	21:51:11.0	+28:51:50	600	89	1.5	0 Calibration	4	
0092.BDp284211	120	09:22	21:51:11.0	+28:51:50	600	109	1.5	#56 Spectropho	4	
0093.COMP	10	09:24	21:51:11.0	+28:51:50	600	109	1.5	0 Calibration	4	
0094.ec20419-1529	118	09:31	20:44:41.9	-15:18:16	600	90	1.5	#178 Low Mass	4	
0095.COMP	10	09:38	20:44:41.9	-15:18:16	600	90	1.5	0 Calibration	4	
0096.ec20422-1556	53	09:39	20:45:05.2	-15:45:33	600	90	1.5	#178 Low Mass	4	
0097.COMP	10	09:40	20:45:05.2	-15:45:33	600	90	1.5	0 Calibration	4	
0098.ec20449-1730	613	09:42	20:47:44.8	-17:19:05	600	90	1.5	#178 Low Mass	4	
0099.COMP	10	09:53	20:47:44.8	-17:19:05	600	90	1.5	0 Calibration	4	
0100.ec20464-1630	424	09:54	20:49:17.3	-16:19:26	600	90	1.5	#178 Low Mass	4	

UT Date 2016-07-08 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0101.COMP	10	10:01	20:49:17.3	-16:19:26	600	90	1.5	0 Calibration	4	
0102.ec20536-2157	1500	10:04	20:56:33.4	-21:46:24	600	90	1.5	#178 Low Mass	4	
0103.COMP	10	10:29	20:56:33.4	-21:46:24	600	91	1.5	0 Calibration	4	
0104.ec21069-1553	1033	10:31	21:09:43.4	-15:41:33	600	91	1.5	#178 Low Mass	4	
0105.COMP	10	10:49	21:09:43.4	-15:41:33	600	90	1.5	0 Calibration	4	
0106.ec21191-1605	1404	10:50	21:21:56.8	-15:52:33	600	90	1.5	#178 Low Mass	4	
0107.COMP	10	11:14	21:21:56.8	-15:52:33	600	90	1.5	0 Calibration	4	
0108-0117.FLAT	12	11:19	21:21:56.8	-15:52:33	600	90	1.5	0 Calibration	4	
0118.COMP	10	11:22	21:21:56.8	-15:52:33	300	90	3.0	0 Calibration	2	
0119.COMP	10	11:24	21:21:56.8	-15:52:33	300	90	3.0	0 Calibration	2	
0120.COMP	10	11:25	21:21:56.8	-15:52:33	300	90	3.0	0 Calibration	2	
0121.snASASSN-16gy	300	11:28	02:21:22.8	+16:33:55	300	90	3.0	#220 ASASSN Tr	2	
0122.COMP	10	11:33	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	2	
0123-0132.BIAS	0	11:39	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	2	
0133-0142.FLAT	7	11:42	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	2	
0143-0147.DARK	900	12:47	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	4	
0148-0152.DARK	900	14:03	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	2	

UT Date 2016-07-09 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	03:30	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	4	
0011-0020.BIAS	0	03:51	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	4	
0021-0040.FLAT	7	03:58	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	2	
0041-0050.BIAS	0	04:14	02:21:22.8	+16:33:55	300	90	3.0	0 Calibration	2	
0051.BDp332642	120	06:45	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	adc on, airmass = 1.2
0052.COMP	10	06:48	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0053.BDp262606	30	06:50	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	adc on, airmass = 1.54
0054.COMP	10	06:52	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0055.BDp332642	120	06:56	15:51:59.9	+32:56:54	300	80	3.0	#56 Spectropho	2	adc off, airmass = 1.23, rotator = 80
0056.COMP	10	06:59	15:51:59.9	+32:56:54	300	80	3.0	0 Calibration	2	
0057.BDp262606	30	07:02	14:49:02.4	+25:42:09	300	70	3.0	#56 Spectropho	2	
0058.COMP	10	07:02	14:49:02.4	+25:42:09	300	70	3.0	0 Calibration	2	
0059.j1610m03	679	07:14	16:10:37.7	-03:00:40	600	46	1.5	#178 Low Mass	4	
0060.COMP	10	07:26	16:10:37.7	-03:00:40	600	45	1.5	0 Calibration	4	
0061.j1611p45	1600	07:30	16:11:00.7	+45:02:31	600	94	1.5	#178 Low Mass	4	bad
0062.COMP	10	07:58	16:11:00.7	+45:02:31	600	93	1.5	0 Calibration	4	
0063.j1611p45	1600	07:59	16:11:00.7	+45:02:31	600	93	1.5	#178 Low Mass	4	
0064.COMP	10	08:26	16:11:00.7	+45:02:31	600	93	1.5	0 Calibration	4	
0065.j1611m00	832	08:30	16:11:16.3	-00:24:39	600	54	1.5	#178 Low Mass	4	
0066.COMP	10	08:44	16:11:16.3	-00:24:39	600	54	1.5	0 Calibration	4	

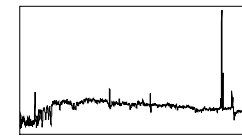
UT Date 2016-07-09 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.BDp332642	120	08:47	15:51:59.9	+32:56:54	600	69	1.5	#56 Spectropho	4	bad
0068.BDp332642	120	08:49	15:51:59.9	+32:56:54	600	70	1.5	#56 Spectropho	4	adc off, rotator=70, airmass=1.97
0069.COMP	10	08:53	15:51:59.9	+32:56:54	600	69	1.5	0 Calibration	4	bad
0070.COMP	10	08:54	15:51:59.9	+32:56:54	600	69	1.5	0 Calibration	4	
0071.BDp332642	120	08:59	15:51:59.9	+32:56:54	600	90	1.5	#56 Spectropho	4	adc on, airmass=2.07, rotator=90
0072.COMP	10	09:01	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	
0073.j1734p07	1200	09:08	17:34:52.8	+07:02:46	600	56	1.5	#178 Low Mass	4	bad
0074.j1734p07	1200	09:31	17:34:52.8	+07:02:46	600	55	1.5	#178 Low Mass	4	
0075.COMP	10	09:51	17:34:52.8	+07:02:46	600	55	1.5	0 Calibration	4	
0076.j1735p53	1200	10:00	17:35:35.4	+53:46:13	600	89	1.5	#178 Low Mass	4	
0077.COMP	10	10:21	17:35:35.4	+53:46:13	600	90	1.5	0 Calibration	4	
0078-0087.FLAT	12	10:26	17:35:35.4	+53:46:13	600	90	1.5	0 Calibration	4	
0088.COMP	5	10:29	17:35:35.4	+53:46:13	300	90	3.0	0 Calibration	4	
0089.snASASSN-16hd	1800	10:35	01:50:51.7	+22:34:00	300	109	3.0	#220 ASASSN Tr	2	
0090.COMP	10	11:06	01:50:51.7	+22:34:00	300	110	3.0	0 Calibration	2	
0091.snASASSN-16gy	900	11:15	02:21:22.8	+16:33:55	300	110	3.0	#220 ASASSN Tr	2	
0092.COMP	10	11:30	02:21:22.8	+16:33:55	300	110	3.0	0 Calibration	2	
0093-0102.BIAS	0	11:37	02:21:22.8	+16:33:55	300	110	3.0	0 Calibration	2	
0103-0122.FLAT	7	11:47	02:21:22.8	+16:33:55	300	91	3.0	0 Calibration	2	
0123-0132.DARK	900	14:06	02:21:22.8	+16:33:55	300	91	3.0	0 Calibration	2	

UT Date 2016-07-10 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0009.DARK	900	03:04	02:21:22.8	+16:33:55	300	91	3.0	0 Calibration	4	
0010-0019.BIAS	0	03:29	02:21:22.8	+16:33:55	300	91	3.0	0 Calibration	4	
0020-0039.FLAT	7	03:36	02:21:22.8	+16:33:55	300	91	3.0	0 Calibration	2	
0040-0049.BIAS	0	03:38	02:21:22.8	+16:33:55	300	91	3.0	0 Calibration	2	
0050.BDp332642	120	03:43	15:51:59.9	+32:56:54	300	75	3.0	#56 Spectropho	2	
0051.COMP	10	03:45	15:51:59.9	+32:56:54	300	75	3.0	0 Calibration	2	
0052.BDp262606	30	03:47	14:49:02.4	+25:42:09	300	58	3.0	#56 Spectropho	2	
0053.COMP	10	03:49	14:49:02.4	+25:42:09	300	58	3.0	0 Calibration	2	
0054.snASASSN-16hc	2300	03:52	13:59:04.5	+33:08:20	300	86	3.0	#220 ASASSN Tr	2	
0055.COMP	10	04:31	13:59:04.5	+33:08:20	300	87	3.0	0 Calibration	2	
0056.snGaia16apd	1800	04:36	12:02:51.7	+44:15:27	300	87	3.0	#2 SN Observat	2	
0057.COMP	10	05:06	12:02:51.7	+44:15:27	300	87	3.0	0 Calibration	2	
0058.j1427p21	1800	05:14	14:27:45.1	+21:51:25	600	87	1.5	#178 Low Mass	4	bad
0059.COMP	10	05:44	14:27:45.1	+21:51:25	600	86	1.5	0 Calibration	4	
0060.j1427p21	1800	05:46	14:27:45.1	+21:51:25	600	68	1.5	#178 Low Mass	4	
0061.COMP	10	06:17	14:27:45.1	+21:51:25	600	68	1.5	0 Calibration	4	
0062.j1613p11	307	06:19	16:13:19.6	+11:20:16	600	48	1.5	#178 Low Mass	4	bad
0063.j1613p11	307	06:25	16:13:19.6	+11:20:16	600	48	1.5	#178 Low Mass	4	
0064.COMP	10	06:31	16:13:19.6	+11:20:16	600	48	1.5	0 Calibration	4	
0065.j1614p42	205	06:35	16:14:46.9	+42:27:36	600	101	1.5	#178 Low Mass	4	



UT Date 2016-07-10 Observers M CalkinsColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.COMP	10	06:39	16:14:46.9	+42:27:36	600	101	1.5	0 Calibration	4	
0067.j1619m00	1500	06:43	16:19:27.9	-00:25:12	600	42	1.5	#178 Low Mass	4	
0068.COMP	10	07:08	16:19:27.9	-00:25:12	600	41	1.5	0 Calibration	4	
0069.j1621p77	1400	07:14	16:21:02.4	+77:36:51	600	47	1.5	#178 Low Mass	4	bad
0070.j1621p77	1400	07:38	16:21:02.4	+77:36:51	600	47	1.5	#178 Low Mass	4	
0071.COMP	10	08:03	16:21:02.4	+77:36:51	600	47	1.5	0 Calibration	4	
0072.j1621p52	1600	08:05	16:21:27.1	+52:30:37	600	97	1.5	#178 Low Mass	4	
0073.COMP	10	08:32	16:21:27.1	+52:30:37	600	97	1.5	0 Calibration	4	
0074.j1743p23	423	08:35	17:43:52.9	+23:06:40	600	68	1.5	#178 Low Mass	4	
0075.COMP	10	08:42	17:43:52.9	+23:06:40	600	68	1.5	0 Calibration	4	
0076.j1748p06	621	08:46	17:48:13.5	+06:45:51	600	52	1.5	#178 Low Mass	4	bad
0077.j1748p06	621	08:58	17:48:13.5	+06:45:51	600	53	1.5	#178 Low Mass	4	
0078.COMP	10	09:09	17:48:13.5	+06:45:51	600	53	1.5	0 Calibration	4	
0079.j1751p38	415	09:12	17:51:45.7	+38:20:16	600	84	1.5	#178 Low Mass	4	bad
0080.j1751p38	415	09:19	17:51:45.7	+38:20:16	600	84	1.5	#178 Low Mass	4	
0081.COMP	10	09:27	17:51:45.7	+38:20:16	600	85	1.5	0 Calibration	4	
0082.BDp284211	120	09:30	21:51:11.0	+28:51:50	600	110	1.5	#56 Spectropho	4	
0083.COMP	10	09:33	21:51:11.0	+28:51:50	600	110	1.5	0 Calibration	4	
0084-0093.FLAT	12	09:38	21:51:11.0	+28:51:50	600	90	1.5	0 Calibration	4	
0094.COMP	5	09:45	21:34:26.1	+31:26:08	600	90	1.5	0 Calibration	2	

UT Date 2016-07-10 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>
0095.COMP	5	09:47	21:34:26.1	+31:26:08	600	90	1.5	0 Calibration	2	
0096.COMP	5	09:48	21:34:26.1	+31:26:08	600	90	1.5	0 Calibration	2	
0098.COMP	10	10:08	21:59:04.1	+18:11:11	600	-16	1.5	0 Calibration	2	
0099.snASASSN-16fp	900	10:12	21:59:04.1	+18:11:11	300	0	3.0	#220 ASASSN Tr	2	
0100.COMP	10	10:28	21:59:04.1	+18:11:11	300	0	3.0	0 Calibration	2	
0101.snAT2016cyt	1200	10:31	21:09:35.8	+15:07:32	300	42	3.0	#2 SN Observat	2	
0102.COMP	10	10:52	21:09:35.8	+15:07:32	300	42	3.0	0 Calibration	2	
0103.snPS16cvc	1800	10:57	21:12:23.4	+14:46:45	300	48	3.0	#2 SN Observat	2	
0104.COMP	10	11:28	21:12:23.4	+14:46:45	300	49	3.0	0 Calibration	2	
0105-0114.BIAS	0	11:35	21:12:23.4	+14:46:45	300	90	3.0	0 Calibration	2	
0115-0134.FLAT	7	11:43	21:12:23.4	+14:46:45	300	90	3.0	0 Calibration	2	
0135-0144.DARK	900	14:02	21:12:23.4	+14:46:45	300	90	3.0	0 Calibration	2	

UT Date 2016-07-11 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	02:42	12:58:35.2	+27:35:47	600	90	1.5	0 Calibration	4	
0011-0020.BIAS	0	02:47	12:58:35.2	+27:35:47	600	90	1.5	0 Calibration	2	
0021-0030.FLAT	7	02:51	12:58:35.2	+27:35:47	300	90	3.0	0 Calibration	2	
0031-0035.FLAT	7	02:53	12:58:35.2	+27:35:47	600	90	1.5	0 Calibration	2	
0036.FLAT	12	03:12	15:07:48.6	+29:31:28	600	90	1.5	0 Calibration	4	600-line, 1.5-sec, blue
0037-0050.FLAT	12	03:17	15:07:48.6	+29:31:28	600	90	1.5	0 Calibration	4	
0051.BDp332642	120	03:27	15:51:59.9	+32:56:54	600	90	1.5	#56 Spectropho	4	
0052.COMP	10	03:29	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	
0053.j1324p28	600	03:33	13:24:34.9	+28:18:03	600	90	1.5	#178 Low Mass	4	
0054.COMP	10	03:44	13:24:34.9	+28:18:03	600	89	1.5	0 Calibration	4	
0055.j1446p48	760	03:45	14:46:01.0	+48:30:58	600	90	1.5	#178 Low Mass	4	
0056.COMP	10	03:59	14:46:01.0	+48:30:58	600	90	1.5	0 Calibration	4	
0057.j1622p25	760	04:07	16:22:34.5	+25:55:17	600	90	1.5	#178 Low Mass	4	
0058.COMP	10	04:20	16:22:34.5	+25:55:17	600	90	1.5	0 Calibration	4	
0059.j1623p24	900	04:22	16:23:29.8	+24:45:41	600	90	1.5	#178 Low Mass	4	
0060.COMP	10	04:38	16:23:29.8	+24:45:41	600	90	1.5	0 Calibration	4	
0061.j1642p11	1200	04:40	16:42:54.7	+11:16:42	600	90	1.5	#178 Low Mass	4	
0062.COMP	10	05:01	16:42:54.7	+11:16:42	600	90	1.5	0 Calibration	4	
0063.j1657p15	1800	05:03	16:57:43.2	+15:37:30	600	90	1.5	#178 Low Mass	4	
0064.COMP	10	05:34	16:57:43.2	+15:37:30	600	90	1.5	0 Calibration	4	

UT Date 2016-07-11 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0065.j1706p13	1800	05:35	17:06:30.3	+13:41:43	600	90	1.5	#178 Low Mass	4	
0066.COMP	10	06:06	17:06:30.3	+13:41:43	600	90	1.5	0 Calibration	4	
0067.j1709p10	1800	06:07	17:09:21.7	+10:10:27	600	90	1.5	#178 Low Mass	4	
0068.COMP	10	06:38	17:09:21.7	+10:10:27	600	90	1.5	0 Calibration	4	
0069.j1718p25	1800	06:41	17:18:40.6	+25:24:32	600	90	1.5	#178 Low Mass	4	
0070.COMP	10	07:11	17:18:40.6	+25:24:32	600	90	1.5	0 Calibration	4	
0071.j1845p20	1500	07:15	18:45:26.9	+20:08:23	600	90	1.5	#178 Low Mass	4	
0072.COMP	10	07:41	18:45:26.9	+20:08:23	600	90	1.5	0 Calibration	4	
0073.j1900p19	1800	07:43	19:00:24.6	+19:17:43	600	90	1.5	#178 Low Mass	4	
0074.COMP	10	08:13	19:00:24.6	+19:17:43	600	90	1.5	0 Calibration	4	
0075.ec20538-1821	480	08:18	20:56:39.2	-18:09:48	600	1	1.5	#178 Low Mass	4	
0076.COMP	10	08:26	20:56:39.2	-18:09:48	600	0	1.5	0 Calibration	4	
0077.ec21032-1845	200	08:28	21:06:05.8	-18:33:09	600	0	1.5	#178 Low Mass	4	
0078.COMP	10	08:32	21:06:05.8	-18:33:09	600	0	1.5	0 Calibration	4	
0079.ec21096-1936	900	08:33	21:12:30.4	-19:24:19	600	0	1.5	#178 Low Mass	4	
0080.COMP	10	08:49	21:12:30.4	-19:24:19	600	0	1.5	0 Calibration	4	
0081.ec21263-1411	1500	08:51	21:29:02.6	-13:57:59	600	0	1.5	#178 Low Mass	4	shutter failed to open junk
0082.COMP	10	09:16	21:29:02.6	-13:57:59	600	1	1.5	0 Calibration	4	
0083.ec21291-1732	120	09:19	21:31:55.9	-17:19:30	600	1	1.5	#178 Low Mass	4	
0084.COMP	10	09:22	21:31:55.9	-17:19:30	600	1	1.5	0 Calibration	4	

UT Date 2016-07-11 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0085.ec21442-2021	120	09:23	21:47:00.0	-20:07:59	600	1	1.5	#178 Low Mass	4	
0086.COMP	10	09:25	21:47:00.0	-20:07:59	600	1	1.5	0 Calibration	4	
0087.ec22010-1445	200	09:27	22:03:46.4	-14:30:46	600	1	1.5	#178 Low Mass	4	
0088.COMP	10	09:30	22:03:46.4	-14:30:46	600	1	1.5	0 Calibration	4	
0089.test	10	09:34	22:20:00.0	+32:00:00	600	1	1.5	#178 Low Mass	2	
0090.test	10	09:36	22:20:00.0	+32:00:00	600	1	1.5	#178 Low Mass	2	
0091.BDp174708	90	09:38	22:11:31.4	+18:05:34	300	1	3.0	#56 Spectropho	2	
0092.COMP	10	09:40	22:11:31.4	+18:05:34	300	1	3.0	0 Calibration	2	
0093.BDp284211	150	09:41	21:51:11.0	+28:51:50	300	1	3.0	#56 Spectropho	2	
0094.COMP	10	09:44	21:51:11.0	+28:51:50	300	1	3.0	0 Calibration	2	
0095.snAT2016cvw	1800	09:47	22:46:12.8	+10:33:33	300	1	3.0	#2 SN Observat	2	
0096.COMP	10	10:18	22:46:12.8	+10:33:33	300	0	3.0	0 Calibration	2	
0097.snASASSN-16gy	900	10:25	02:21:22.8	+16:33:55	300	-30	3.0	#220 ASASSN Tr	2	
0098.snASASSN-16gy	900	10:40	02:21:22.8	+16:33:55	300	-30	3.0	#220 ASASSN Tr	2	
0099.snASASSN-16gy	900	10:55	02:21:22.8	+16:33:55	300	-30	3.0	#220 ASASSN Tr	2	
0100.COMP	10	11:16	02:21:22.8	+16:33:55	300	0	3.0	0 Calibration	2	
0101.ZAnd	6	11:18	23:33:40.0	+48:49:06	300	0	3.0	#12 Symbiotic	2	
0102.ZAnd	15	11:18	23:33:40.0	+48:49:06	300	0	3.0	#12 Symbiotic	2	
0103.ZAnd	60	11:19	23:33:40.0	+48:49:06	300	0	3.0	#12 Symbiotic	2	
0104.COMP	10	11:21	23:33:40.0	+48:49:06	300	0	3.0	0 Calibration	2	

UT Date 2016-07-11 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>
0105.AXPer	5	11:22	01:36:23.0	+54:15:03	300	0	3.0	#12 Symbiotic	2	
0106.AXPer	15	11:23	01:36:23.0	+54:15:03	300	0	3.0	#12 Symbiotic	2	
0107.AXPer	150	11:24	01:36:23.0	+54:15:03	300	0	3.0	#12 Symbiotic	2	
0108.COMP	10	11:27	01:36:23.0	+54:15:03	300	0	3.0	0 Calibration	2	
0109.EGAnd	2	11:28	00:44:37.0	+40:40:47	300	0	3.0	#12 Symbiotic	2	
0110.EGAnd	10	11:29	00:44:37.0	+40:40:47	300	0	3.0	#12 Symbiotic	2	
0111.EGAnd	10	11:30	00:44:37.0	+40:40:47	300	0	3.0	#12 Symbiotic	2	
0112.COMP	10	11:30	00:44:37.0	+40:40:47	300	0	3.0	0 Calibration	2	
0113-0123.BIAS	0	11:51	02:08:03.5	+13:36:24	300	89	3.0	0 Calibration	2	
0124-0138.FLAT	7	11:57	02:08:03.5	+13:36:24	300	89	3.0	0 Calibration	2	
0139-0143.DARK	900	13:00	02:08:03.5	+13:36:24	300	89	3.0	0 Calibration	2	
0144-0145.DARK	900	13:30	02:08:03.5	+13:36:24	300	89	3.0	0 Calibration	4	