

UT Date 2012-11-09 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	00:35	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	
0002.BIAS	0	00:35	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	start of FAST run
0003-0010.BIAS	0	00:37	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	
0011-0025.FLAT	7	00:42	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	
0026.test	5	00:43	22:37:04.1	+34:24:56	300	90	3.0	#57 Velocity S	2	
0027.COMP	10	00:44	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	
0028-0031.DARK	1200	01:47	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	
0032.DARK	1200	02:08	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	stop and go through clouds, rain
0033.ZAnd	10	04:55	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0034.ZAnd	60	04:56	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0035.ZAnd	30	04:57	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0036.COMP	10	04:58	23:33:40.0	+48:49:06	300	90	3.0	0 Calibration	2	
0037.sn2012gb	1800	05:22	22:15:42.8	+37:14:38	300	90	3.0	#2 SN Observat	2	
0038.COMP	10	05:54	22:15:42.8	+37:14:38	300	90	3.0	0 Calibration	2	
0039.EGAnd	2	07:04	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0040.EGAnd	10	07:04	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0041.EGAnd	10	07:05	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0042.EGAnd	45	07:06	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0043.COMP	10	07:07	00:44:37.0	+40:40:47	300	90	3.0	0 Calibration	2	
0044.AXPer	30	07:08	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	

UT Date 2012-11-09 Observers P BerlindColl. Focus 1350 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>
0045.AXPer	90	07:09	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0046.COMP	10	07:12	01:36:23.0	+54:15:03	300	90	3.0	0 Calibration	2	
0047.sn2012fr	316	07:17	03:33:36.0	-36:07:38	300	90	3.0	#2 SN Observat	2	phew
0048.COMP	10	07:23	03:33:36.0	-36:07:38	300	90	3.0	0 Calibration	2	clouds, rain
0049-0058.BIAS	0	09:58	03:30:00.0	-10:00:00	300	90	3.0	0 Calibration	2	
0059-0073.FLAT	7	10:04	03:30:00.0	-10:00:00	300	90	3.0	0 Calibration	2	

UT Date 2012-11-10 Observers P BerlindColl. Focus 1350 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>
0001-0010.BIAS	0	00:24	03:30:00.0	-10:00:00	300	90	3.0	0 Calibration	2	
0011.FLAT	7	00:25	03:30:00.0	-10:00:00	300	90	3.0	0 Calibration	2	clouds, rain
0012.FLAT	7	00:25	03:30:00.0	-10:00:00	300	90	3.0	0 Calibration	2	no observing
0013-0025.FLAT	7	00:30	03:30:00.0	-10:00:00	300	90	3.0	0 Calibration	2	

UT Date 2012-11-11 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0003.DARK	900	00:56	20:22:31.6	+31:27:43	300	90	3.0	0 Calibration	4	
0004-0013.BIAS	0	01:22	20:22:31.6	+31:27:43	300	90	3.0	0 Calibration	4	
0014-0033.FLAT	7	01:29	20:22:31.6	+31:27:43	300	90	3.0	0 Calibration	2	
0034-0043.BIAS	0	01:32	20:22:31.6	+31:27:43	300	90	3.0	0 Calibration	2	
0044.sn2009ip	1800	01:40	22:23:08.3	-28:56:52	300	90	3.0	#2 SN Observat	2	
0045.COMP	10	02:11	22:23:08.3	-28:56:52	300	90	3.0	0 Calibration	2	
0046.ls12fhe	1800	02:18	21:32:09.3	-05:43:34	300	90	3.0	#2 SN Observat	2	
0047.COMP	10	02:49	21:32:09.3	-05:43:34	300	90	3.0	0 Calibration	2	
0048.ls12fuk	1800	09:30	04:58:15.9	-16:17:58	300	90	3.0	#2 SN Observat	2	
0049.COMP	10	10:01	04:58:15.9	-16:17:58	300	89	3.0	0 Calibration	2	
0050.G191B2B	300	10:03	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	
0051.COMP	10	10:09	05:05:30.6	+52:49:52	300	89	3.0	0 Calibration	2	
0052.Hiltner600	90	10:12	06:45:13.4	+02:08:15	300	89	3.0	#56 Spectropho	2	
0053.COMP	10	10:15	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	
0054.GITau	240	10:19	04:33:34.0	+24:21:18	300	89	3.0	#12 Symbiotic	2	
0055.COMP	10	10:23	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0056.GKTau	240	10:24	04:33:34.5	+24:21:07	300	90	3.0	#12 Symbiotic	2	
0057.COMP	10	10:29	04:33:34.5	+24:21:07	300	90	3.0	0 Calibration	2	
0058.BGGem	300	10:32	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	
0059.COMP	10	10:37	06:03:31.0	+27:41:50	300	89	3.0	0 Calibration	2	

UT Date 2012-11-11 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0060.BXMon	20	10:39	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0061.BXMon	210	10:40	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0062.COMP	10	10:44	07:25:23.0	-03:35:51	300	90	3.0	0 Calibration	2	
0063.SS129	300	10:47	07:32:45.0	-26:49:16	300	60	3.0	#12 Symbiotic	2	
0064.SS129	300	10:52	07:32:45.0	-26:49:16	300	60	3.0	#12 Symbiotic	2	
0065.COMP	10	10:58	07:32:45.0	-26:49:16	300	60	3.0	0 Calibration	2	
0066.06101011-1025256	900	11:01	06:10:10.1	-10:25:26	300	90	3.0	#141 2Mass Red	2	
0067.COMP	10	11:17	06:10:10.1	-10:25:26	300	90	3.0	0 Calibration	2	
0068.06255191+5334574	1500	11:19	06:25:51.9	+53:34:57	300	90	3.0	#141 2Mass Red	2	
0069.COMP	10	11:45	06:25:51.9	+53:34:57	300	90	3.0	0 Calibration	2	
0070.06352757+8134183	900	11:46	06:35:27.6	+81:34:18	300	90	3.0	#141 2Mass Red	2	
0071.COMP	10	12:03	06:35:27.6	+81:34:18	300	90	3.0	0 Calibration	2	
0072.sn2010j1	1800	12:07	09:42:53.3	+09:29:42	300	90	3.0	#2 SN Observat	2	
0073.COMP	10	12:38	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	2	
0074.HD52071	10	12:40	07:00:58.2	+27:09:27	300	89	3.0	#57 Velocity S	2	
0075.COMP	10	12:42	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	2	
0076-0085.BIAS	0	12:53	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	2	
0086-0105.FLAT	7	13:02	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	2	
0106-0115.DARK	900	15:25	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	2	

UT Date 2012-11-12 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0009.DARK	900	00:56	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	4	
0010-0019.BIAS	0	01:13	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	4	
0020-0039.FLAT	7	01:27	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	2	
0040-0049.BIAS	0	01:30	07:00:58.2	+27:09:27	300	89	3.0	0 Calibration	2	
0050.BDp284211	120	01:32	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0051.COMP	10	01:35	21:51:11.0	+28:51:50	300	88	3.0	0 Calibration	2	
0052.BDp174708	40	01:36	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0053.COMP	10	01:37	22:11:31.4	+18:05:34	300	88	3.0	0 Calibration	2	
0054.YYHer	10	01:39	18:14:34.0	+20:59:19	300	88	3.0	#12 Symbiotic	2	
0055.YYHer	60	01:40	18:14:34.0	+20:59:19	300	88	3.0	#12 Symbiotic	2	
0056.COMP	10	01:41	18:14:34.0	+20:59:19	300	89	3.0	0 Calibration	2	
0057.DracoC1	1500	01:44	17:19:58.0	+57:50:06	300	90	3.0	#12 Symbiotic	2	
0058.COMP	10	02:10	17:19:58.0	+57:50:06	300	90	3.0	0 Calibration	2	
0059.AS338	90	02:12	19:03:47.0	+16:26:17	300	90	3.0	#12 Symbiotic	2	
0060.COMP	10	02:15	19:03:47.0	+16:26:17	300	91	3.0	0 Calibration	2	
0061.BFCyg	15	02:17	19:23:53.0	+29:40:27	300	91	3.0	#12 Symbiotic	2	
0062.BFCyg	15	02:17	19:23:53.0	+29:40:27	300	91	3.0	#12 Symbiotic	2	
0063.COMP	10	02:18	19:23:53.0	+29:40:27	300	90	3.0	0 Calibration	2	
0064.CHCyg	1	02:20	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0065.CHCyg	5	02:21	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	

UT Date 2012-11-12 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.CHCyg	30	02:21	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0067.COMP	10	02:23	19:24:33.0	+50:14:30	300	90	3.0	0 Calibration	2	
0068.AS360	60	02:26	19:45:49.0	+18:36:49	300	90	3.0	#12 Symbiotic	2	
0069.AS360	300	02:28	19:45:49.0	+18:36:49	300	90	3.0	#12 Symbiotic	2	
0070.COMP	10	02:33	19:45:49.0	+18:36:49	300	90	3.0	0 Calibration	2	
0071.CICyg	4	02:35	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0072.CICyg	15	02:35	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0073.COMP	10	02:36	19:50:12.0	+35:41:02	300	90	3.0	0 Calibration	2	
0074.PUVul	1	02:38	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0075.PUVul	10	02:38	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0076.PUVul	60	02:39	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0077.COMP	10	02:41	20:21:13.0	+21:34:21	300	90	3.0	0 Calibration	2	
0078.lsq12fhe	1800	02:43	21:32:09.3	-05:43:34	300	90	3.0	#2 SN Observat	2	
0079.COMP	10	03:14	21:32:09.3	-05:43:34	300	90	3.0	0 Calibration	2	
0080.sn2009ip	1800	03:17	22:23:08.3	-28:56:52	300	90	3.0	#2 SN Observat	2	
0081.COMP	10	03:47	22:23:08.3	-28:56:52	300	90	3.0	0 Calibration	2	
0082.lsq12gdj	2400	03:51	23:54:43.3	-25:40:34	300	90	3.0	#2 SN Observat	2	
0083.COMP	10	04:31	23:54:43.3	-25:40:34	300	90	3.0	0 Calibration	2	
0084.sn2012gb	1800	04:36	22:15:42.8	+37:14:38	300	41	3.0	#2 SN Observat	2	
0085.COMP	10	05:07	22:15:42.8	+37:14:38	300	39	3.0	0 Calibration	2	

UT Date 2012-11-12 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

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0086.lsq12fwb	1800	05:12	00:25:25.2	+06:42:26	300	60	3.0	#2 SN Observat	2	nothing there...
0087.COMP	10	05:45	00:25:25.2	+06:42:26	300	60	3.0	0 Calibration	2	
0088.RAqr	1	05:47	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0089.RAqr	5	05:47	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0090.RAqr	10	05:47	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0091.COMP	10	05:48	23:43:49.0	-15:17:05	300	90	3.0	0 Calibration	2	
0092.Group83	1800	05:54	00:24:29.7	-01:04:39	300	82	3.0	#214 SDSS Comp	2	
0093.Group83	1800	06:24	00:24:29.7	-01:04:39	300	82	3.0	#214 SDSS Comp	2	
0094.Group83	1800	06:54	00:24:29.7	-01:04:39	300	82	3.0	#214 SDSS Comp	2	
0095.COMP	10	07:25	00:24:29.7	-01:04:39	300	82	3.0	0 Calibration	2	
0096.03402770+1533113	720	07:28	03:40:27.7	+15:33:11	300	89	3.0	#141 2Mass Red	2	
0097.COMP	10	07:41	03:40:27.7	+15:33:11	300	90	3.0	0 Calibration	2	
0098.sn2012fr	720	07:44	03:33:36.0	-36:07:38	300	90	3.0	#2 SN Observat	2	
0099.COMP	10	07:56	03:33:36.0	-36:07:38	300	90	3.0	0 Calibration	2	
0100.lsq12fuk	1800	08:00	04:58:15.9	-16:17:58	300	90	3.0	#2 SN Observat	2	
0101.COMP	10	08:30	04:58:15.9	-16:17:58	300	90	3.0	0 Calibration	2	
0102-0111.FLAT	12	08:38	04:58:15.9	-16:17:58	600	90	1.5	0 Calibration	4	
0112.G191B2B	360	08:40	05:05:30.6	+52:49:52	600	90	1.5	#56 Spectropho	4	
0113.COMP	10	08:47	05:05:30.6	+52:49:52	600	88	1.5	0 Calibration	4	
0114.lmwd526	1060	08:49	07:26:59.5	+33:17:09	600	88	1.5	#178 Low Mass	4	

UT Date 2012-11-12 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

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0115.COMP	10	09:08	07:26:59.5	+33:17:09	600	88	1.5	0 Calibration	4	
0116.lmwd526	1060	09:09	07:26:59.5	+33:17:09	600	88	1.5	#178 Low Mass	4	
0117.COMP	10	09:27	07:26:59.5	+33:17:09	600	88	1.5	0 Calibration	4	
0118.lmwd526	1060	09:28	07:26:59.5	+33:17:09	600	88	1.5	#178 Low Mass	4	
0119.COMP	10	09:46	07:26:59.5	+33:17:09	600	88	1.5	0 Calibration	4	
0120.lmwd526	1060	09:47	07:26:59.5	+33:17:09	600	88	1.5	#178 Low Mass	4	
0121.COMP	10	10:05	07:26:59.5	+33:17:09	600	88	1.5	0 Calibration	4	
0122.lmwd526	1060	10:05	07:26:59.5	+33:17:09	600	88	1.5	#178 Low Mass	4	
0123.COMP	10	10:24	07:26:59.5	+33:17:09	600	88	1.5	0 Calibration	4	
0124.lmwd526	1060	10:24	07:26:59.5	+33:17:09	600	88	1.5	#178 Low Mass	4	
0125.COMP	10	10:42	07:26:59.5	+33:17:09	600	88	1.5	0 Calibration	4	
0126.lmwd526	1060	10:43	07:26:59.5	+33:17:09	600	88	1.5	#178 Low Mass	4	
0127.COMP	10	11:01	07:26:59.5	+33:17:09	600	88	1.5	0 Calibration	4	
0128.lmwd526	1060	11:02	07:26:59.5	+33:17:09	600	86	1.5	#178 Low Mass	4	
0129.COMP	10	11:20	07:26:59.5	+33:17:09	600	86	1.5	0 Calibration	4	
0130.lmwd526	1060	11:21	07:26:59.5	+33:17:09	600	86	1.5	#178 Low Mass	4	
0131.COMP	10	11:39	07:26:59.5	+33:17:09	600	86	1.5	0 Calibration	4	
0132.lmwd526	1060	11:40	07:26:59.5	+33:17:09	600	86	1.5	#178 Low Mass	4	
0133.COMP	10	11:58	07:26:59.5	+33:17:09	600	89	1.5	0 Calibration	4	
0134.COMP	5	12:02	07:26:59.5	+33:17:09	300	89	3.0	0 Calibration	4	test

UT Date 2012-11-12 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

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0135.lsqa12fxd	1800	12:05	05:22:17.0	-25:35:47	300	89	3.0	#2 SN Observat	2	
0136.COMP	10	12:35	05:22:17.0	-25:35:47	300	90	3.0	0 Calibration	2	
0137.sn2010j1	1200	12:38	09:42:53.3	+09:29:42	300	89	3.0	#2 SN Observat	2	
0138.COMP	10	12:59	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	2	
0139-0148.BIAS	0	13:03	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	2	
0149-0168.FLAT	7	13:10	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	2	
0169-0178.DARK	900	15:31	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	2	

UT Date 2012-11-13 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:38	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	02:52	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	03:46	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	03:48	09:42:53.3	+09:29:42	300	89	3.0	0 Calibration	2	
0051.BDp284211	150	03:50	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0052.COMP	10	03:53	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0053.BDp174708	45	03:54	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0054.COMP	10	03:56	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	
0055.M31	60	06:17	00:42:44.3	+41:16:09	300	89	3.0	#57 Velocity S	2	
0056.COMP	10	06:18	00:42:44.3	+41:16:09	300	89	3.0	0 Calibration	2	
0057.03404644+1404321	1500	06:22	03:40:46.4	+14:04:32	300	75	3.0	#141 2Mass Red	2	
0058.COMP	10	06:48	03:40:46.4	+14:04:32	300	75	3.0	0 Calibration	2	
0059.03412887+1432116	720	06:49	03:41:28.9	+14:32:12	300	89	3.0	#141 2Mass Red	2	
0060.COMP	10	07:01	03:41:28.9	+14:32:12	300	89	3.0	0 Calibration	2	
0061.03423372+1350084	1800	07:03	03:42:33.7	+13:50:08	300	89	3.0	#141 2Mass Red	2	
0062.COMP	10	07:33	03:42:33.7	+13:50:08	300	89	3.0	0 Calibration	2	
0063.sn2012fr	720	07:36	03:33:36.0	-36:07:38	300	89	3.0	#2 SN Observat	2	
0064.COMP	10	07:48	03:33:36.0	-36:07:38	300	90	3.0	0 Calibration	2	
0065.ls12fuk	1800	07:51	04:58:15.9	-16:17:58	300	90	3.0	#2 SN Observat	2	
0066.COMP	10	08:22	04:58:15.9	-16:17:58	300	90	3.0	0 Calibration	2	

UT Date 2012-11-13 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.dC063313p8409	1200	08:30	06:33:13.2	+84:09:00	300	91	3.0	#99 Director	2	
0068.COMP	10	08:51	06:33:13.2	+84:09:00	300	90	3.0	0 Calibration	2	
0069.lmwd521	450	08:57	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0070.COMP	10	09:05	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0071.lmwd521	450	09:05	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0072.COMP	10	09:14	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0073.lmwd521	450	09:15	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0074.COMP	10	09:23	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0075.lmwd521	450	09:24	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0076.COMP	10	09:32	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0077.lmwd521	450	09:33	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0078.COMP	10	09:41	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0079.lmwd521	450	09:41	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0080.COMP	10	09:49	05:28:57.0	-06:22:51	600	89	1.5	0 Calibration	4	
0081.lmwd521	450	09:51	05:28:57.0	-06:22:51	600	89	1.5	#178 Low Mass	4	
0082.COMP	10	09:59	05:28:57.0	-06:22:51	600	89	1.5	0 Calibration	4	
0083.lmwd521	450	10:00	05:28:57.0	-06:22:51	600	89	1.5	#178 Low Mass	4	
0084.COMP	10	10:07	05:28:57.0	-06:22:51	600	89	1.5	0 Calibration	4	
0085.lmwd521	450	10:08	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0086.COMP	10	10:16	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	

UT Date 2012-11-13 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.lmwd521	450	10:17	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0088.COMP	10	10:25	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0089.lmwd521	450	10:25	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0090.COMP	10	10:33	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0091.lmwd521	450	10:34	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0092.COMP	10	10:42	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0093.lmwd521	450	10:43	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0094.COMP	10	10:51	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0095.lmwd521	450	10:51	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0096.COMP	10	10:59	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0097.lmwd521	450	11:00	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0098.COMP	10	11:08	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0099.lmwd521	450	11:09	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0100.COMP	10	11:17	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0101.lmwd521	450	11:17	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0102.COMP	10	11:25	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0103.lmwd521	450	11:26	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0104.COMP	10	11:34	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0105.lmwd521	450	11:35	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0106.COMP	10	11:43	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	

UT Date 2012-11-13 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

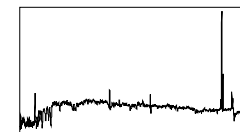
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0107.lmwd521	450	11:43	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0108.COMP	10	11:51	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0109.lmwd521	450	11:52	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0110.COMP	10	12:00	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0111.lmwd521	450	12:01	05:28:57.0	-06:22:51	600	90	1.5	#178 Low Mass	4	
0112.COMP	10	12:09	05:28:57.0	-06:22:51	600	90	1.5	0 Calibration	4	
0113.Feige34	180	12:10	10:39:36.7	+43:06:09	600	90	1.5	#56 Spectropho	4	
0114.COMP	10	12:14	10:39:36.7	+43:06:09	600	88	1.5	0 Calibration	4	
0115-0124.FLAT	12	12:18	10:39:36.7	+43:06:09	600	88	1.5	0 Calibration	4	
0125.COMP	5	12:22	10:39:36.7	+43:06:09	300	88	3.0	0 Calibration	4	test
0126.dC063313p8409	1200	12:25	06:33:13.2	+84:09:00	300	88	3.0	#99 Director	2	
0127.COMP	10	12:45	06:33:13.2	+84:09:00	300	90	3.0	0 Calibration	2	
0128.Feige34	120	12:49	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0129.COMP	10	12:51	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	
0130.HD84937	20	12:53	09:48:56.1	+13:44:39	300	89	3.0	#56 Spectropho	2	
0131.COMP	10	12:54	09:48:56.1	+13:44:39	300	89	3.0	0 Calibration	2	
0132-0141.BIAS	0	12:58	09:48:56.1	+13:44:39	300	89	3.0	0 Calibration	2	
0142-0161.FLAT	7	13:07	09:48:56.1	+13:44:39	300	89	3.0	0 Calibration	2	
0162-0171.DARK	900	15:27	09:48:56.1	+13:44:39	300	89	3.0	0 Calibration	2	

UT Date 2012-11-14 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	00:42	20:00:21.9	+32:11:23	1200	90	2.0	0 Calibration	2	
0011.test	8	00:42	20:00:21.9	+32:11:23	1200	90	2.0	#176 Be/X-ray	2	
0012.test	10	00:43	20:00:21.9	+32:11:23	1200	90	2.0	#176 Be/X-ray	2	
0013.FLAT	15	00:44	20:00:21.9	+32:11:23	1200	90	2.0	0 Calibration	2	1200-line, 2-sec, GG495, red 850
0014-0027.FLAT	15	00:50	20:00:21.9	+32:11:23	1200	90	2.0	0 Calibration	2	
0028.BDp174708	90	01:18	22:11:31.5	+18:05:34	1200	90	2.0	#176 Be/X-ray	2	
0029.COMP	10	01:21	22:11:31.5	+18:05:34	1200	90	2.0	0 Calibration	2	
0030.4U2204p543	120	01:22	22:07:57.0	+54:31:06	1200	90	2.0	#176 Be/X-ray	2	
0031.COMP	10	01:25	22:07:57.0	+54:31:06	1200	90	2.0	0 Calibration	2	
0032.IGRJ2000	1800	01:26	20:00:21.9	+32:11:23	1200	90	2.0	#176 Be/X-ray	2	
0033.COMP	10	01:57	20:00:21.9	+32:11:23	1200	89	2.0	0 Calibration	2	
0034.SAXJ21035p4545	1200	01:58	21:03:35.7	+45:45:05	1200	89	2.0	#176 Be/X-ray	2	
0035.COMP	10	02:18	21:03:35.7	+45:45:05	1200	89	2.0	0 Calibration	2	
0036.IGRJ2134.2p4738	1200	02:19	21:34:20.4	+47:38:00	1200	89	2.0	#176 Be/X-ray	2	
0037.COMP	10	02:40	21:34:20.4	+47:38:00	1200	89	2.0	0 Calibration	2	
0038.test	10	02:43	23:20:00.0	+32:00:00	300	89	3.0	#176 Be/X-ray	2	
0039.test	10	02:44	23:20:00.0	+32:00:00	300	89	3.0	#176 Be/X-ray	2	
0040.BDp174708	90	02:48	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	300-line, 3-sec, combo
0041.BDp174708	90	02:50	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	
0042.COMP	10	02:52	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	

UT Date 2012-11-14 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0043.BDp284211	180	02:53	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0044.COMP	10	02:56	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0045.sn2009ip	1800	02:59	22:23:08.3	-28:56:52	300	90	3.0	#2 SN Observat	2	
0046.COMP	10	03:29	22:23:08.3	-28:56:52	300	89	3.0	0 Calibration	2	
0047.ls12gdj	1800	03:31	23:54:43.3	-25:40:34	300	89	3.0	#2 SN Observat	2	
0048.COMP	10	04:02	23:54:43.3	-25:40:34	300	89	3.0	0 Calibration	2	
0049.dC012321m0045	1800	04:05	01:23:21.1	-00:45:50	300	89	3.0	#99 Director	2	
0050.COMP	10	04:36	01:23:21.1	-00:45:50	300	89	3.0	0 Calibration	2	
0051.dC013007p0026	1800	04:38	01:30:07.1	+00:26:35	300	75	3.0	#99 Director	2	
0052.COMP	10	05:09	01:30:07.1	+00:26:35	300	75	3.0	0 Calibration	2	
0053-0062.FLAT	7	05:13	01:55:00.0	+32:00:00	300	90	3.0	0 Calibration	2	
0063.test	10	05:16	01:55:00.0	+32:00:00	1200	90	2.0	#99 Director	2	
0064.RXJ01469p6121	240	05:18	01:47:00.0	+61:21:23	1200	90	2.0	#176 Be/X-ray	2	1200-line, 2-sec, red again
0065.COMP	10	05:23	01:47:00.0	+61:21:23	1200	89	2.0	0 Calibration	2	
0066.4U0115p634	1800	05:25	01:18:32.0	+63:44:33	1200	89	2.0	#176 Be/X-ray	2	
0067.COMP	10	05:55	01:18:32.0	+63:44:33	1200	90	2.0	0 Calibration	2	
0068.IGRJ01363p6610	900	05:57	01:35:49.8	+66:12:43	1200	90	2.0	#176 Be/X-ray	2	
0069.COMP	10	06:12	01:35:49.8	+66:12:43	1200	90	2.0	0 Calibration	2	
0070.IGRJ01583p6713	1800	06:13	01:58:18.2	+67:13:26	1200	90	2.0	#176 Be/X-ray	2	
0071.COMP	10	06:44	01:58:18.2	+67:13:26	1200	90	2.0	0 Calibration	2	

UT Date 2012-11-14 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0072.XPer	4	06:45	03:55:23.0	+31:02:45	1200	90	2.0	#176 Be/X-ray	2	
0073.XPer	4	06:46	03:55:23.0	+31:02:45	1200	90	2.0	#176 Be/X-ray	2	
0074.XPer	4	06:46	03:55:23.0	+31:02:45	1200	90	2.0	#176 Be/X-ray	2	
0075.COMP	10	06:46	03:55:23.0	+31:02:45	1200	90	2.0	0 Calibration	2	
0076.RXJ04409p4431	300	06:48	04:41:00.6	+44:31:50	1200	90	2.0	#176 Be/X-ray	2	
0077.COMP	10	06:53	04:41:00.6	+44:31:50	1200	90	2.0	0 Calibration	2	
0078.A0535p262	60	06:54	05:38:54.5	+26:18:57	1200	90	2.0	#176 Be/X-ray	2	
0079.COMP	10	06:56	05:38:54.5	+26:18:57	1200	90	2.0	0 Calibration	2	
0080.HD19445	30	06:57	03:08:26.3	+26:20:29	1200	90	2.0	#176 Be/X-ray	2	
0081.COMP	10	06:58	03:08:26.3	+26:20:29	1200	90	2.0	0 Calibration	2	
0082-0091.FLAT	15	07:03	03:40:00.0	+32:00:00	1200	90	2.0	0 Calibration	2	
0092-0094.BIAS	0	07:04	03:40:00.0	+32:00:00	1200	90	2.0	0 Calibration	2	
0095.test	10	07:17	03:30:00.0	+32:00:00	300	89	3.0	#2 SN Observat	2	
0096.sn2012fr	900	07:20	03:33:36.0	-36:07:38	300	90	3.0	#2 SN Observat	2	300-line, 3-sec, combo
0097.COMP	10	07:35	03:33:36.0	-36:07:38	300	90	3.0	0 Calibration	2	
0098.dC012321m0045	1800	07:39	01:23:21.1	-00:45:50	300	90	3.0	#99 Director	2	clouds
0099.COMP	10	08:10	01:23:21.1	-00:45:50	300	89	3.0	0 Calibration	2	
0100.dC013007p0026	1800	08:12	01:30:07.1	+00:26:35	300	75	3.0	#99 Director	2	
0101.COMP	10	08:42	01:30:07.1	+00:26:35	300	75	3.0	0 Calibration	2	
0102.dC063313p8409	1200	08:47	06:33:13.2	+84:09:00	300	90	3.0	#99 Director	2	

UT Date 2012-11-14 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0103.COMP	10	09:07	06:33:13.2	+84:09:00	300	89	3.0	0 Calibration	2	
0104.lsq12fuk	1800	09:11	04:58:15.9	-16:17:58	300	89	3.0	#2 SN Observat	2	
0105.COMP	10	09:41	04:58:15.9	-16:17:58	300	90	3.0	0 Calibration	2	
0106.lsq12fxd	1800	09:43	05:22:17.0	-25:35:47	300	90	3.0	#2 SN Observat	2	
0107.COMP	10	10:13	05:22:17.0	-25:35:47	300	90	3.0	0 Calibration	2	
0108.Hiltner600	90	10:15	06:45:13.4	+02:08:15	300	90	3.0	#56 Spectropho	2	
0109.COMP	10	10:17	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0110.06135924+3236467	1800	10:20	06:13:59.2	+32:36:47	300	90	3.0	#141 2Mass Red	2	
0111.COMP	10	10:51	06:13:59.2	+32:36:47	300	90	3.0	0 Calibration	2	
0112.06135924+3236467	1800	10:52	06:13:59.2	+32:36:47	300	90	3.0	#141 2Mass Red	2	
0113.COMP	10	11:22	06:13:59.2	+32:36:47	300	90	3.0	0 Calibration	2	
0114.sn2010j1	1800	11:28	09:42:53.3	+09:29:42	300	90	3.0	#2 SN Observat	2	
0115.COMP	10	11:58	09:42:53.3	+09:29:42	300	90	3.0	0 Calibration	2	
0116.dC063313p8409	1200	12:01	06:33:13.2	+84:09:00	300	90	3.0	#99 Director	2	
0117.COMP	10	12:21	06:33:13.2	+84:09:00	300	90	3.0	0 Calibration	2	
0118-0127.BIAS	0	12:29	06:35:00.0	+55:00:00	300	90	3.0	0 Calibration	2	
0128-0142.FLAT	7	12:35	06:35:00.0	+55:00:00	300	90	3.0	0 Calibration	2	
0143-0147.DARK	1200	14:04	06:35:00.0	+55:00:00	300	90	3.0	0 Calibration	2	

UT Date 2012-11-15 Observers P BerlindColl. Focus 1350 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	1200	23:50	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	
0006-0015.BIAS	0	00:13	22:37:04.1	+34:24:56	300	90	3.0	0 Calibration	2	
0017-0026.BIAS	0	00:19	21:39:07.4	+22:27:09	600	90	1.5	0 Calibration	4	
0027.FLAT	12	00:21	21:39:07.4	+22:27:09	600	90	1.5	0 Calibration	4	600-line, 1.5-sec, blue
0028-0041.FLAT	12	00:25	21:39:07.4	+22:27:09	600	90	1.5	0 Calibration	4	
0042.BDp284211	120	01:11	21:51:11.0	+28:51:50	600	90	1.5	#178 Low Mass	4	
0043.COMP	10	01:13	21:51:11.0	+28:51:50	600	90	1.5	0 Calibration	4	
0044.hotwd043	1200	01:16	21:18:32.6	+21:06:20	600	90	1.5	#178 Low Mass	4	
0045.COMP	10	01:36	21:18:32.6	+21:06:20	600	89	1.5	0 Calibration	4	
0046.hotwd042	1500	01:38	21:12:50.3	-08:06:54	600	89	1.5	#178 Low Mass	4	
0047.COMP	10	02:03	21:12:50.3	-08:06:54	600	90	1.5	0 Calibration	4	
0048.hotwd044	1200	02:06	21:26:23.3	+00:26:39	600	90	1.5	#178 Low Mass	4	
0049.COMP	10	02:26	21:26:23.3	+00:26:39	600	90	1.5	0 Calibration	4	
0050.hotwd041	1260	02:28	21:08:20.1	+09:55:16	600	90	1.5	#178 Low Mass	4	
0051.COMP	10	02:50	21:08:20.1	+09:55:16	600	90	1.5	0 Calibration	4	
0052.hotwd045	1500	02:51	21:29:46.1	+12:17:24	600	90	1.5	#178 Low Mass	4	
0053.COMP	10	03:17	21:29:46.1	+12:17:24	600	89	1.5	0 Calibration	4	
0054.hotwd055	1500	03:20	22:26:22.2	-08:44:58	600	89	1.5	#178 Low Mass	4	
0055.COMP	10	03:46	22:26:22.2	-08:44:58	600	89	1.5	0 Calibration	4	
0056.hotwd049	1800	03:47	21:50:29.1	+05:50:35	600	89	1.5	#178 Low Mass	4	

UT Date 2012-11-15 Observers P BerlindColl. Focus 1350 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0057.COMP	10	04:17	21:50:29.1	+05:50:35	600	89	1.5	0 Calibration	4	
0058.hotwd052	1500	04:19	22:16:18.0	+13:51:21	600	70	1.5	#178 Low Mass	4	
0059.COMP	10	04:44	22:16:18.0	+13:51:21	600	70	1.5	0 Calibration	4	
0061.BIAS	0	04:59	01:39:27.9	+32:00:05	300	90	3.0	0 Calibration	2	rtssystem failure, ccd computer problems
0062.COMP	10	05:00	01:39:27.9	+32:00:05	300	90	3.0	0 Calibration	2	
0063.test	10	05:02	01:39:27.9	+32:00:05	300	90	3.0	#2 SN Observat	2	
0064.dC012321m0045	1800	05:09	01:23:21.1	-00:45:50	300	90	3.0	#99 Director	2	
0065.COMP	10	05:40	01:23:21.1	-00:45:50	300	89	3.0	0 Calibration	2	
0066.dC013007p0026	1800	05:41	01:30:07.1	+00:26:35	300	76	3.0	#99 Director	2	
0067.COMP	10	06:12	01:30:07.1	+00:26:35	300	75	3.0	0 Calibration	2	
0068.psn0123	1800	06:14	01:23:24.4	+09:25:54	300	90	3.0	#2 SN Observat	2	
0069.COMP	10	06:44	01:23:24.4	+09:25:54	300	90	3.0	0 Calibration	2	
0070.03423372+1350084	1800	06:47	03:42:33.7	+13:50:08	300	90	3.0	#141 2Mass Red	2	
0071.COMP	10	07:18	03:42:33.7	+13:50:08	300	90	3.0	0 Calibration	2	
0072.sn2012fr	720	07:20	03:33:36.0	-36:07:38	300	90	3.0	#2 SN Observat	2	
0073.COMP	10	07:32	03:33:36.0	-36:07:38	300	90	3.0	0 Calibration	2	
0074.03432662+1221331	900	07:35	03:43:26.6	+12:21:33	300	90	3.0	#141 2Mass Red	2	
0075.COMP	10	07:51	03:43:26.6	+12:21:33	300	90	3.0	0 Calibration	2	
0076.dC012321m0045	1800	07:53	01:23:21.1	-00:45:50	300	90	3.0	#99 Director	2	weak
0077.COMP	10	08:24	01:23:21.1	-00:45:50	300	90	3.0	0 Calibration	2	stopped by clouds

UT Date 2012-11-15 Observers P BerlindColl. Focus 1350 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0078.HD19445	15	08:52	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	2	
0079.HD19445	15	08:52	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	2	
0080.COMP	10	08:53	03:08:25.6	+26:19:51	300	89	3.0	0 Calibration	2	
0081.G191B2B	360	08:54	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	
0082.COMP	10	09:01	05:05:30.6	+52:49:52	300	89	3.0	0 Calibration	2	
0083.lsq12fxd	1800	09:05	05:22:17.0	-25:35:47	300	89	3.0	#2 SN Observat	2	
0084.COMP	10	09:35	05:22:17.0	-25:35:47	300	89	3.0	0 Calibration	2	
0085-0094.FLAT	7	09:41	06:30:00.0	+32:00:00	300	89	3.0	0 Calibration	2	
0095.COMP	10	09:46	06:08:40.3	+65:12:35	600	89	1.5	0 Calibration	4	
0096.hotwd074	1500	09:47	06:08:40.3	+65:12:35	600	89	1.5	#178 Low Mass	4	
0097.COMP	10	10:13	06:08:40.3	+65:12:35	600	89	1.5	0 Calibration	4	
0098.hotwd079	1800	10:16	08:01:15.1	+10:20:45	600	94	1.5	#178 Low Mass	4	
0099.COMP	10	10:46	08:01:15.1	+10:20:45	600	94	1.5	0 Calibration	4	
0100.hotwd083	1800	10:49	09:03:16.8	+04:12:00	600	94	1.5	#178 Low Mass	4	
0101.COMP	10	11:19	09:03:16.8	+04:12:00	600	94	1.5	0 Calibration	4	
0102.hotwd087	1800	11:22	09:43:14.4	+11:16:11	600	91	1.5	#178 Low Mass	4	
0103.COMP	10	11:53	09:43:14.4	+11:16:11	600	90	1.5	0 Calibration	4	
0104.hotwd086	1200	11:54	09:39:35.5	+13:56:51	600	90	1.5	#178 Low Mass	4	
0105.COMP	10	12:14	09:39:35.5	+13:56:51	600	90	1.5	0 Calibration	4	
0106.hotwd090	1200	12:15	09:46:31.6	+13:47:36	600	90	1.5	#178 Low Mass	4	

UT Date 2012-11-15 Observers P BerlindColl. Focus 1350 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>
0107.COMP	10	12:35	09:46:31.6	+13:47:36	600	90	1.5	0 Calibration	4	
0108.Feige34	120	12:38	10:39:36.7	+43:06:09	600	90	1.5	#178 Low Mass	4	
0109.COMP	10	12:41	10:39:36.7	+43:06:09	600	90	1.5	0 Calibration	4	
0110.hotwd093	660	12:42	10:05:45.4	-02:25:19	600	90	1.5	#178 Low Mass	4	
0111.COMP	10	12:54	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	
0112-0121.FLAT	12	12:58	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	
0122-0131.BIAS	0	13:01	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	
0132-0136.DARK	1200	14:27	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	

UT Date 2012-11-16 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	00:19	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	
0011-0020.FLAT	12	00:24	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	
0021.BIAS	0	00:29	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	
0022-0026.DARK	1200	01:50	10:05:45.4	-02:25:19	600	90	1.5	0 Calibration	4	
0027.hotwd060	1800	04:31	23:43:33.6	+46:49:13	600	90	1.5	#178 Low Mass	4	
0028.COMP	10	05:02	23:43:33.6	+46:49:13	600	90	1.5	0 Calibration	4	
0029.hotwd059	1746	05:04	23:31:23.2	+47:16:56	600	90	1.5	#178 Low Mass	4	
0030.COMP	10	05:33	23:31:23.2	+47:16:56	600	90	1.5	0 Calibration	4	
0031.HD19445	60	05:36	03:08:25.6	+26:19:51	600	91	1.5	#178 Low Mass	4	
0032.COMP	10	05:38	03:08:25.6	+26:19:51	600	91	1.5	0 Calibration	4	
0033.hotwd058	1288	05:50	23:31:06.9	+51:10:01	600	91	1.5	#178 Low Mass	4	
0034.COMP	10	06:12	23:31:06.9	+51:10:01	600	91	1.5	0 Calibration	4	
0035.test	10	06:18	03:00:00.0	+32:00:00	300	91	3.0	#2 SN Observat	2	
0036.test	10	06:19	03:00:00.0	+32:00:00	300	91	3.0	#2 SN Observat	2	
0037-0046.BIAS	0	06:22	03:00:00.0	+32:00:00	300	91	3.0	0 Calibration	2	
0047-0061.FLAT	7	06:27	03:00:00.0	+32:00:00	300	91	3.0	0 Calibration	2	

UT Date 2012-11-17 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	01:37	21:56:22.7	+31:26:31	300	90	3.0	0 Calibration	4	
0011-0030.FLAT	7	01:43	21:56:22.7	+31:26:31	300	90	3.0	0 Calibration	2	
0031-0040.BIAS	0	01:45	21:56:22.7	+31:26:31	300	90	3.0	0 Calibration	2	
0041.BDp284211	150	01:47	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0042.COMP	10	01:50	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0043.BDp174708	45	01:51	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	
0044.COMP	10	01:52	22:11:31.4	+18:05:34	300	90	3.0	0 Calibration	2	
0045.sn2009ip	1800	01:54	22:23:08.3	-28:56:52	300	90	3.0	#2 SN Observat	2	
0046.COMP	10	02:25	22:23:08.3	-28:56:52	300	90	3.0	0 Calibration	2	
0047.lsq12fhe	1800	02:27	21:32:09.3	-05:43:34	300	90	3.0	#2 SN Observat	2	
0048.COMP	10	02:58	21:32:09.3	-05:43:34	300	90	3.0	0 Calibration	2	
0049.sn2012gb	1800	03:03	22:15:42.8	+37:14:38	300	41	3.0	#2 SN Observat	2	
0050.COMP	10	03:34	22:15:42.8	+37:14:38	300	40	3.0	0 Calibration	2	
0051.Group1402	1800	03:37	00:36:23.8	-09:01:58	300	101	3.0	#214 SDSS Comp	2	
0052.Group1402	1800	04:07	00:36:23.8	-09:01:58	300	101	3.0	#214 SDSS Comp	2	
0053.Group1402	1800	04:37	00:36:23.8	-09:01:58	300	101	3.0	#214 SDSS Comp	2	
0054.COMP	10	05:08	00:36:23.8	-09:01:58	300	101	3.0	0 Calibration	2	clouds coming in
0055.03425727+3815274	1800	05:39	03:42:57.3	+38:15:27	300	91	3.0	#141 2Mass Red	2	
0056.COMP	10	06:09	03:42:57.3	+38:15:27	300	89	3.0	0 Calibration	2	
0057.03432662+1221331	1800	06:28	03:43:26.6	+12:21:33	300	80	3.0	#141 2Mass Red	2	blah... no good

UT Date 2012-11-17 Observers M CalkinsColl. Focus 1350 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>
0058.COMP	10	06:58	03:43:26.6	+12:21:33	300	81	3.0	0 Calibration	2	
0059-0068.BIAS	0	11:30	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	
0069-0088.FLAT	7	11:41	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	
0089-0098.DARK	900	14:04	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	

UT Date 2012-11-18 Observers M CalkinsColl. Focus 1350 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>
0001-0010.DARK	900	00:53	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	01:52	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	02:01	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	02:05	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	
0051-0060.DARK	900	13:45	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	

UT Date 2012-11-19 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

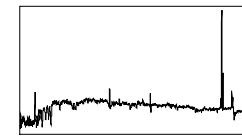
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:41	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	02:40	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	02:56	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	03:00	03:33:36.0	-36:07:38	300	89	3.0	0 Calibration	2	
0051.sn2009ip	1800	03:39	22:23:08.3	-28:56:52	300	89	3.0	#2 SN Observat	2	
0052.COMP	10	04:11	22:23:08.3	-28:56:52	300	89	3.0	0 Calibration	2	
0053.PUVu1	2	04:37	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0054.PUVu1	15	04:38	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0055.PUVu1	80	04:39	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0056.COMP	10	04:41	20:21:13.0	+21:34:21	300	89	3.0	0 Calibration	2	
0057.ZAnd	1	04:44	23:33:40.0	+48:49:06	300	89	3.0	#12 Symbiotic	2	
0058.ZAnd	5	04:46	23:33:40.0	+48:49:06	300	89	3.0	#12 Symbiotic	2	
0059.ZAnd	30	04:47	23:33:40.0	+48:49:06	300	89	3.0	#12 Symbiotic	2	
0060.COMP	10	04:48	23:33:40.0	+48:49:06	300	90	3.0	0 Calibration	2	
0061.RAqr	1	04:51	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0062.RAqr	5	04:52	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	through clouds
0063.RAqr	10	04:53	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0064.COMP	10	04:54	23:43:49.0	-15:17:05	300	90	3.0	0 Calibration	2	
0065.EGAnd	1	04:57	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0066.EGAnd	5	04:57	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	

UT Date 2012-11-19 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.EGAnd	10	04:58	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0068.COMP	10	04:59	00:44:37.0	+40:40:47	300	90	3.0	0 Calibration	2	
0069.AXPer	4	05:01	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0070.AXPer	30	05:01	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0071.AXPer	90	05:03	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0072.COMP	10	05:05	01:36:23.0	+54:15:03	300	89	3.0	0 Calibration	2	
0073.lsq12gdj	1800	05:08	23:54:43.3	-25:40:34	300	100	3.0	#2 SN Observat	2	
0074.COMP	10	05:38	23:54:43.3	-25:40:34	300	99	3.0	0 Calibration	2	
0075.psn0123	1800	06:25	01:23:24.4	+09:25:54	300	80	3.0	#2 SN Observat	2	
0076.COMP	10	06:56	01:23:24.4	+09:25:54	300	80	3.0	0 Calibration	2	
0077.GITau	300	06:58	04:33:34.0	+24:21:18	300	89	3.0	#12 Symbiotic	2	
0078.COMP	10	07:05	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0079.GKTau	300	07:06	04:33:34.5	+24:21:07	300	90	3.0	#12 Symbiotic	2	
0080.COMP	10	07:11	04:33:34.5	+24:21:07	300	90	3.0	0 Calibration	2	
0081.sn2012fr	1200	07:14	03:33:36.0	-36:07:38	300	90	3.0	#2 SN Observat	2	
0082.COMP	10	07:34	03:33:36.0	-36:07:38	300	90	3.0	0 Calibration	2	
0083.HD19445	8	07:37	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0084.COMP	10	07:38	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	
0085.HD19445	20	07:38	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0086.COMP	10	07:39	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	

UT Date 2012-11-19 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.lsq12fuk	2400	07:42	04:58:15.9	-16:17:58	300	90	3.0	#2 SN Observat	2	
0088.COMP	10	08:22	04:58:15.9	-16:17:58	300	90	3.0	0 Calibration	2	
0089.BGGem	360	08:27	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	
0090.COMP	10	08:34	06:03:31.0	+27:41:50	300	90	3.0	0 Calibration	2	
0091.G191B2B	300	08:36	05:05:30.6	+52:49:52	300	85	3.0	#56 Spectropho	2	
0092.COMP	10	08:41	05:05:30.6	+52:49:52	300	88	3.0	0 Calibration	2	
0093.lsq12fxd	2400	08:44	05:22:17.0	-25:35:47	300	88	3.0	#2 SN Observat	2	
0094.COMP	10	09:32	05:22:17.0	-25:35:47	300	89	3.0	0 Calibration	2	
0095.BXMon	25	10:56	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0096.BXMon	240	10:57	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0097.COMP	10	11:02	07:25:23.0	-03:35:51	300	90	3.0	0 Calibration	2	
0098.SS129	420	11:04	07:32:45.0	-26:49:16	300	70	3.0	#12 Symbiotic	2	
0099.SS129	420	11:12	07:32:45.0	-26:49:16	300	70	3.0	#12 Symbiotic	2	
0100.COMP	10	11:19	07:32:45.0	-26:49:16	300	71	3.0	0 Calibration	2	
0101-0110.BIAS	0	12:34	10:43:34.0	+24:53:29	300	89	3.0	0 Calibration	2	
0111-0130.FLAT	7	12:42	10:43:34.0	+24:53:29	300	89	3.0	0 Calibration	2	
0131-0140.DARK	900	15:01	10:43:34.0	+24:53:29	300	89	3.0	0 Calibration	2	

UT Date 2012-11-20 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	00:37	01:30:00.0	+32:00:00	300	90	3.0	0 Calibration	2	
0011-0015.BIAS	0	00:42	19:20:00.0	+32:00:00	1200	90	2.0	0 Calibration	2	
0016.test	10	00:45	19:20:00.0	+32:00:00	1200	90	2.0	#176 Be/X-ray	2	
0017.FLAT	15	00:46	19:20:00.0	+32:00:00	1200	90	2.0	0 Calibration	2	1200-line, 2-sec, gg495, red
0018-0031.FLAT	15	00:52	19:20:00.0	+32:00:00	1200	90	2.0	0 Calibration	2	
0032.BDp174708	120	01:28	22:11:31.5	+18:05:34	1200	90	2.0	#176 Be/X-ray	2	
0033.COMP	10	01:30	22:11:31.5	+18:05:34	1200	90	2.0	0 Calibration	2	
0034.4U1907p09	1500	01:32	19:09:38.0	+09:49:47	1200	90	2.0	#176 Be/X-ray	2	
0035.COMP	10	01:58	19:09:38.0	+09:49:47	1200	90	2.0	0 Calibration	2	
0036.XTEJ1946p274	1800	01:59	19:45:39.3	+27:21:55	1200	90	2.0	#176 Be/X-ray	2	
0037.COMP	10	02:30	19:45:39.3	+27:21:55	1200	90	2.0	0 Calibration	2	
0038.KS1947p300	1500	02:31	19:49:35.5	+30:12:32	1200	90	2.0	#176 Be/X-ray	2	
0039.COMP	10	02:56	19:49:35.5	+30:12:32	1200	89	2.0	0 Calibration	2	
0040.GROJ2058p42	1500	02:58	20:58:47.5	+41:46:37	1200	89	2.0	#176 Be/X-ray	2	
0041.COMP	10	03:23	20:58:47.5	+41:46:37	1200	90	2.0	0 Calibration	2	
0042.IGRJ2134.2p4738	1200	03:25	21:34:20.4	+47:38:00	1200	89	2.0	#176 Be/X-ray	2	
0043.COMP	10	03:46	21:34:20.4	+47:38:00	1200	89	2.0	0 Calibration	2	
0044.4U2204p543	120	03:47	22:07:57.0	+54:31:06	1200	89	2.0	#176 Be/X-ray	2	
0045.COMP	10	03:49	22:07:57.0	+54:31:06	1200	89	2.0	0 Calibration	2	
0046.RXJ01469p6121	300	03:51	01:47:00.0	+61:21:23	1200	89	2.0	#176 Be/X-ray	2	

UT Date 2012-11-20 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0047.COMP	10	03:57	01:47:00.0	+61:21:23	1200	90	2.0	0 Calibration	2	
0048.LSIp61303	90	03:58	02:40:31.6	+61:13:46	1200	90	2.0	#176 Be/X-ray	2	
0049.COMP	10	04:00	02:40:31.6	+61:13:46	1200	90	2.0	0 Calibration	2	
0050.V0332p53	1500	04:01	03:34:59.8	+53:10:24	1200	90	2.0	#176 Be/X-ray	2	
0051.COMP	10	04:27	03:34:59.8	+53:10:24	1200	90	2.0	0 Calibration	2	
0052.XPer	4	04:29	03:55:23.0	+31:02:45	1200	90	2.0	#176 Be/X-ray	2	
0053.XPer	4	04:29	03:55:23.0	+31:02:45	1200	90	2.0	#176 Be/X-ray	2	
0054.COMP	10	04:30	03:55:23.0	+31:02:45	1200	90	2.0	0 Calibration	2	
0055.HD19445	30	04:31	03:08:26.3	+26:20:29	1200	90	2.0	#176 Be/X-ray	2	
0056.COMP	10	04:32	03:08:26.3	+26:20:29	1200	90	2.0	0 Calibration	2	
0057.test	10	04:35	02:00:00.0	+32:00:00	300	90	3.0	#176 Be/X-ray	2	
0058.225m280	360	04:37	00:44:29.8	+41:21:25	300	90	3.0	#57 Velocity S	2	300-line, 3-sec
0059.COMP	10	04:44	00:44:29.8	+41:21:25	300	89	3.0	0 Calibration	2	
0060.psn2317	1800	04:46	23:17:37.0	+14:00:09	300	89	3.0	#2 SN Observat	2	
0061.COMP	10	05:16	23:17:37.0	+14:00:09	300	90	3.0	0 Calibration	2	
0062.dC012321m0045	1800	05:19	01:23:21.1	-00:45:50	300	90	3.0	#99 Director	2	
0063.COMP	10	05:49	01:23:21.1	-00:45:50	300	90	3.0	0 Calibration	2	
0064.dC013007p0026	1800	05:51	01:30:07.1	+00:26:35	300	76	3.0	#99 Director	2	
0065.COMP	10	06:21	01:30:07.1	+00:26:35	300	75	3.0	0 Calibration	2	
0066.03432662+1221331	600	06:25	03:43:26.6	+12:21:33	300	89	3.0	#141 2Mass Red	2	

UT Date 2012-11-20 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.COMP	10	06:35	03:43:26.6	+12:21:33	300	89	3.0	0 Calibration	2	
0068.03432972+1538181	600	06:37	03:43:29.7	+15:38:18	300	99	3.0	#141 2Mass Red	2	
0069.COMP	10	06:47	03:43:29.7	+15:38:18	300	100	3.0	0 Calibration	2	
0070.03563152+1817111	360	06:48	03:56:31.5	+18:17:11	300	91	3.0	#141 2Mass Red	2	
0071.COMP	10	06:55	03:56:31.5	+18:17:11	300	90	3.0	0 Calibration	2	
0072.HD19445	15	06:57	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0073.COMP	10	06:57	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	
0074.sn2012fr	900	07:00	03:33:36.0	-36:07:38	300	90	3.0	#2 SN Observat	2	
0075.COMP	10	07:16	03:33:36.0	-36:07:38	300	90	3.0	0 Calibration	2	
0076.04033382+0103402	900	07:18	04:03:33.8	+01:03:40	300	90	3.0	#141 2Mass Red	2	
0077.COMP	10	07:34	04:03:33.8	+01:03:40	300	90	3.0	0 Calibration	2	
0078.04040597+1317031	720	07:35	04:04:06.0	+13:17:03	300	90	3.0	#141 2Mass Red	2	
0079.COMP	10	07:48	04:04:06.0	+13:17:03	300	90	3.0	0 Calibration	2	
0080.04084243+1642539	1200	07:49	04:08:42.4	+16:42:54	300	90	3.0	#141 2Mass Red	2	
0081.COMP	10	08:09	04:08:42.4	+16:42:54	300	90	3.0	0 Calibration	2	
0082.lsq12fxd	1800	08:33	05:22:17.0	-25:35:47	300	90	3.0	#2 SN Observat	2	
0083.COMP	10	09:03	05:22:17.0	-25:35:47	300	90	3.0	0 Calibration	2	
0084.G191B2B	300	09:06	05:05:30.6	+52:49:52	300	90	3.0	#56 Spectropho	2	
0085.COMP	10	09:12	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0086-0095.FLAT	8	09:16	06:30:00.0	+32:00:00	300	90	3.0	0 Calibration	2	

UT Date 2012-11-20 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0096.COMP	10	09:21	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0097.bcand416	1200	09:21	08:23:30.4	+08:17:03	600	90	1.5	#178 Low Mass	4	600-line, 1.5-sec, blue
0098.COMP	10	09:42	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0099.bcand416	1200	09:43	08:23:30.4	+08:17:03	600	89	1.5	#178 Low Mass	4	
0100.COMP	10	10:03	08:23:30.4	+08:17:03	600	89	1.5	0 Calibration	4	
0101.bcand416	1200	10:04	08:23:30.4	+08:17:03	600	90	1.5	#178 Low Mass	4	
0102.COMP	10	10:24	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0103.bcand416	1200	10:25	08:23:30.4	+08:17:03	600	89	1.5	#178 Low Mass	4	
0104.COMP	10	10:45	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0105.bcand416	1200	10:46	08:23:30.4	+08:17:03	600	90	1.5	#178 Low Mass	4	
0106.COMP	10	11:07	08:23:30.4	+08:17:03	600	88	1.5	0 Calibration	4	
0107.bcand416	1200	11:07	08:23:30.4	+08:17:03	600	90	1.5	#178 Low Mass	4	
0108.COMP	10	11:28	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0109.bcand416	1200	11:28	08:23:30.4	+08:17:03	600	90	1.5	#178 Low Mass	4	
0110.COMP	10	11:49	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0111.bcand416	1200	11:50	08:23:30.4	+08:17:03	600	90	1.5	#178 Low Mass	4	
0112.COMP	10	12:10	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0113.bcand416	1200	12:11	08:23:30.4	+08:17:03	600	90	1.5	#178 Low Mass	4	
0114.COMP	10	12:31	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	
0115-0124.FLAT	12	12:35	08:23:30.4	+08:17:03	600	90	1.5	0 Calibration	4	

UT Date 2012-11-20 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0125.Feige34	120	12:37	10:39:36.7	+43:06:09	600	90	1.5	#178 Low Mass	4	
0126.COMP	10	12:39	10:39:36.7	+43:06:09	600	90	1.5	0 Calibration	4	
0128.Feige34	120	12:45	10:39:36.7	+43:06:09	300	90	5.0	#56 Spectropho	2	300-line, 5-sec
0129.Feige34	120	12:47	10:39:36.7	+43:06:09	300	90	5.0	#56 Spectropho	2	
0130.Feige34	120	12:49	10:39:36.7	+43:06:09	300	90	5.0	#56 Spectropho	2	
0131.Feige34	120	12:55	10:39:36.7	+43:06:09	300	89	5.0	#56 Spectropho	2	
0132.Feige34	120	12:58	10:39:36.7	+43:06:09	300	87	5.0	#56 Spectropho	2	
0133.Feige34	120	13:00	10:39:36.7	+43:06:09	300	87	5.0	#56 Spectropho	2	a few clouds moving in
0134.COMP	5	13:02	10:39:36.7	+43:06:09	300	87	5.0	0 Calibration	2	
0136-0145.FLAT	4	13:07	10:39:36.7	+43:06:09	300	86	5.0	0 Calibration	2	
0146.BIAS	0	13:10	10:39:36.7	+43:06:09	300	86	3.0	0 Calibration	2	
0147.BIAS	0	13:10	10:39:36.7	+43:06:09	300	86	3.0	0 Calibration	2	end of FAST run
0148-0150.BIAS	0	13:11	10:39:36.7	+43:06:09	300	86	3.0	0 Calibration	2	
0151-0160.BIAS	0	13:14	10:39:36.7	+43:06:09	300	86	3.0	0 Calibration	4	