

UT Date 2012-07-11 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.BIAS	0	00:05	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	
0006.DARK	1200	00:06	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	start of FAST run
0007-0010.DARK	1200	01:27	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	
0011-0020.BIAS	0	02:57	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	
0021.FLAT	7	02:57	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	300-line, 3-sec, combo
0022-0033.FLAT	7	03:01	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	
0034.FLAT	7	03:01	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	thunderstorms...
0035.FLAT	7	03:02	11:35:42.1	+31:34:39	300	90	3.0	#141 2Mass Red	2	
0037.BDp262606	75	03:58	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0038.BDp262606	120	04:00	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0039.COMP	10	04:03	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0040.AGDra	5	04:07	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0041.AGDra	30	04:08	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0042.AGDra	300	04:09	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0043.COMP	10	04:14	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0044.K4644922	180	08:10	19:15:12.1	+39:42:50	300	90	3.0	#192 DASCH Lon	2	
0045.COMP	10	08:13	19:15:12.1	+39:42:50	300	90	3.0	#192 DASCH Lon	2	
0046.BFCyg	20	08:14	19:23:53.0	+29:40:27	300	90	3.0	#12 Symbiotic	2	
0047.BFCyg	90	08:15	19:23:53.0	+29:40:27	300	90	3.0	#12 Symbiotic	2	
0048.COMP	10	08:17	19:23:53.0	+29:40:27	300	90	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0049.CICyg	5	08:19	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0050.CICyg	20	08:19	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0051.CICyg	300	08:20	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0052.COMP	10	08:26	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0053.CHCyg	5	08:27	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0054.CHCyg	60	08:27	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0055.COMP	10	08:29	19:24:33.0	+50:14:30	300	90	3.0	#12 Symbiotic	2	
0056.J2803.30+393820.5	360	08:31	20:28:03.0	+39:38:20	300	88	3.0	#183 CygX_YSOs	2	
0057.J2904.88+403003.6	420	08:38	20:29:04.0	+40:30:03	300	89	3.0	#183 CygX_YSOs	2	
0058.COMP	10	08:45	20:29:04.0	+40:30:03	300	88	3.0	#183 CygX_YSOs	2	
0059.BDp284211	120	08:46	21:51:11.0	+28:51:50	300	88	3.0	#56 Spectropho	2	
0060.COMP	10	08:49	21:51:11.0	+28:51:50	300	85	3.0	#56 Spectropho	2	
0061.J1823.77+392137.4	600	08:50	20:18:23.0	+39:21:37	300	85	3.0	#183 CygX_YSOs	2	clouds
0062.COMP	10	09:03	20:18:23.0	+39:21:37	300	89	3.0	#183 CygX_YSOs	2	
0063-0072.BIAS	0	09:40	20:18:23.0	+39:21:37	300	89	3.0	#183 CygX_YSOs	2	
0073-0087.FLAT	7	09:46	20:18:23.0	+39:21:37	300	89	3.0	#183 CygX_YSOs	2	

UT Date 2012-07-12 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	06:01	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	4	
0011-0020.BIAS	0	06:18	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	4	
0021-0040.FLAT	7	06:33	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	2	
0041-0050.BIAS	0	08:35	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	2	

UT Date 2012-07-13 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	02:50	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	4	
0011-0020.BIAS	0	03:19	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	4	
0021-0040.FLAT	10	03:40	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	2	
0041-0050.BIAS	0	05:39	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	2	
0051-0060.DARK	900	13:29	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	2	

UT Date 2012-07-14 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	01:20	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	4	
0011-0020.BIAS	0	02:53	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	4	
0021-0040.FLAT	10	03:06	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	2	
0041-0050.BIAS	0	03:15	15:38:12.8	+31:32:50	300	90	3.0	#183 CygX_YSOs	2	
0051.BDp262606	300	06:55	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0052.COMP	10	07:00	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0053.psn2023	1200	10:50	20:23:36.3	-28:16:43	300	91	3.0	#2 SN Observat	2	
0054.COMP	10	11:11	20:23:36.3	-28:16:43	300	91	3.0	#2 SN Observat	2	
0055-0064.BIAS	0	11:25	20:23:36.3	-28:16:43	300	91	3.0	#2 SN Observat	2	
0065-0084.FLAT	10	11:35	20:23:36.3	-28:16:43	300	91	3.0	#2 SN Observat	2	
0085-0094.DARK	900	13:54	20:23:36.3	-28:16:43	300	91	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	02:30	14:36:29.0	+31:33:39	300	86	3.0	#2 SN Observat	2	
0011-0024.FLAT	7	02:36	14:36:29.0	+31:33:39	300	86	3.0	#2 SN Observat	2	
0025.FLAT	7	02:36	14:36:29.0	+31:33:39	300	86	3.0	#2 SN Observat	2	clouds all night
0026-0028.DARK	900	03:21	14:36:29.0	+31:33:39	300	86	3.0	#2 SN Observat	2	
0029.BDp262606	75	03:39	14:49:02.4	+25:42:09	300	86	3.0	#56 Spectropho	2	
0030.BDp262606	75	03:41	14:49:02.4	+25:42:09	300	86	3.0	#56 Spectropho	2	
0031.COMP	10	03:42	14:49:02.4	+25:42:09	300	86	3.0	#56 Spectropho	2	
0032.sn2012cg	1200	03:44	12:27:12.8	+09:25:13	300	86	3.0	#2 SN Observat	2	
0033.COMP	10	04:04	12:27:12.8	+09:25:13	300	86	3.0	#2 SN Observat	2	
0034.sn2012da	1800	04:06	13:02:33.7	+27:26:11	300	86	3.0	#2 SN Observat	2	
0035.COMP	10	04:37	13:02:33.7	+27:26:11	300	90	3.0	#2 SN Observat	2	
0036.BDp332642	150	04:39	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0037.COMP	10	04:42	15:51:59.9	+32:56:54	300	90	3.0	#12 Symbiotic	2	
0038.TCrB	20	04:43	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0039.TCrB	90	04:44	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0040.COMP	10	04:46	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0041.AS210	60	04:48	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0042.AS210	299	04:49	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0043.COMP	10	04:55	16:51:20.3	-26:00:33	300	91	3.0	#12 Symbiotic	2	
0044.Hen1341	30	04:56	17:08:36.0	-17:26:30	300	91	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0045.Hen1341	150	04:57	17:08:36.0	-17:26:30	300	91	3.0	#12 Symbiotic	2	
0046.COMP	10	05:00	17:08:36.0	-17:26:30	300	91	3.0	#12 Symbiotic	2	
0047.RSOph	60	05:01	17:50:13.0	-06:42:30	300	91	3.0	#12 Symbiotic	2	
0048.RSOph	240	05:03	17:50:13.0	-06:42:30	300	91	3.0	#12 Symbiotic	2	
0049.COMP	10	05:08	17:50:13.0	-06:42:30	300	91	3.0	#12 Symbiotic	2	
0050.YYHer	60	05:09	18:14:34.0	+20:59:19	300	91	3.0	#12 Symbiotic	2	
0051.YYHer	300	05:11	18:14:34.0	+20:59:19	300	91	3.0	#12 Symbiotic	2	
0052.COMP	10	05:16	18:14:34.0	+20:59:19	300	91	3.0	#12 Symbiotic	2	
0053.J1823.77+392137.4	190	07:19	20:18:23.0	+39:21:37	300	86	3.0	#183 CygX_YSOs	2	
0054.J1823.77+392137.4	600	07:25	20:18:23.0	+39:21:37	300	86	3.0	#183 CygX_YSOs	2	
0055.COMP	10	07:35	20:18:23.0	+39:21:37	300	86	3.0	#183 CygX_YSOs	2	
0056.J2220.33+400652.7	420	07:36	20:22:20.0	+40:06:52	300	86	3.0	#183 CygX_YSOs	2	
0057.J1736.90+414441.8	480	07:44	20:17:36.0	+41:44:41	300	89	3.0	#183 CygX_YSOs	2	
0058.COMP	10	07:52	20:17:36.0	+41:44:41	300	89	3.0	#183 CygX_YSOs	2	
0059.J1957.98+411622.0	480	07:54	20:19:57.0	+41:16:22	300	89	3.0	#183 CygX_YSOs	2	
0060.J1831.97+404247.3	480	08:03	20:18:31.0	+40:42:47	300	88	3.0	#183 CygX_YSOs	2	
0061.COMP	10	08:11	20:18:31.0	+40:42:47	300	86	3.0	#183 CygX_YSOs	2	
0062.J4421.42+404542.0	600	08:19	20:44:21.0	+40:45:42	300	86	3.0	#183 CygX_YSOs	2	
0063.COMP	10	08:30	20:44:21.0	+40:45:42	300	90	3.0	#183 CygX_YSOs	2	
0064-0073.BIAS	0	08:59	20:44:21.0	+40:45:42	300	90	3.0	#183 CygX_YSOs	2	

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<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0074-0088.FLAT	7	09:04	20:44:21.0	+40:45:42	300	90	3.0	#183 CygX_YSOs	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	03:24	20:44:21.0	+40:45:42	300	90	3.0	#183 CygX_YSOs	2	
0011-0025.FLAT	7	03:30	20:44:21.0	+40:45:42	300	90	3.0	#183 CygX_YSOs	2	
0026-0027.DARK	900	07:00	20:44:21.0	+40:45:42	300	90	3.0	#183 CygX_YSOs	2	
0028.V443Her	10	07:20	18:22:07.0	+23:27:20	300	90	3.0	#12 Symbiotic	2	
0029.V443Her	60	07:21	18:22:07.0	+23:27:20	300	90	3.0	#12 Symbiotic	2	
0030.V443Her	300	07:22	18:22:07.0	+23:27:20	300	90	3.0	#12 Symbiotic	2	
0031.COMP	10	07:27	18:22:07.0	+23:27:20	300	90	3.0	#12 Symbiotic	2	
0032.AS338	180	07:28	19:03:47.0	+16:26:17	300	90	3.0	#12 Symbiotic	2	
0033.AS338	900	07:32	19:03:47.0	+16:26:17	300	90	3.0	#12 Symbiotic	2	
0034.COMP	10	07:47	19:03:47.0	+16:26:17	300	91	3.0	#12 Symbiotic	2	
0035.AS360	300	07:49	19:45:49.0	+18:36:49	300	91	3.0	#12 Symbiotic	2	
0036.AS360	900	07:54	19:45:49.0	+18:36:49	300	91	3.0	#12 Symbiotic	2	
0037.COMP	10	08:10	19:45:49.0	+18:36:49	300	90	3.0	#12 Symbiotic	2	
0038.PUVu1	5	08:11	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0039.PUVu1	10	08:11	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0040.PUVu1	120	08:11	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0041.PUVu1	180	08:14	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0042.COMP	10	08:17	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0043.BDp404032	150	08:21	20:08:24.1	+41:15:04	300	90	3.0	#56 Spectropho	2	
0044.COMP	10	08:23	20:08:24.1	+41:15:04	300	90	3.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0045.J2002.03+405819.4	421	08:25	20:20:02.0	+40:58:19	300	90	3.0	#183 CygX_YSOs	2	
0046.COMP	10	08:32	20:20:02.0	+40:58:19	300	90	3.0	#183 CygX_YSOs	2	
0047.BDp284211	150	08:34	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0048.COMP	10	08:36	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0049.ZAnd	5	08:38	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0050.ZAnd	15	08:38	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0051.ZAnd	90	08:39	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0052.COMP	10	08:41	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0053.IPHAS_W3368	300	08:43	20:41:25.1	+36:29:16	300	90	3.0	#157 IPHAS	2	
0054.COMP	10	08:49	20:41:25.1	+36:29:16	300	89	3.0	#157 IPHAS	2	
0055.IPHAS_W3372	420	08:50	20:41:32.7	+45:25:42	300	89	3.0	#157 IPHAS	2	
0056.COMP	10	08:57	20:41:32.7	+45:25:42	300	90	3.0	#157 IPHAS	2	
0057.IPHAS_W3376	540	08:58	20:42:36.2	+43:41:49	300	90	3.0	#157 IPHAS	2	
0058.COMP	10	09:08	20:42:36.2	+43:41:49	300	90	3.0	#157 IPHAS	2	
0059.IPHAS_W3378	600	09:09	20:43:04.7	+38:21:58	300	90	3.0	#157 IPHAS	2	
0060.COMP	10	09:19	20:43:04.7	+38:21:58	300	90	3.0	#157 IPHAS	2	
0061.IPHAS_W3384	900	09:21	20:44:26.8	+45:26:55	300	90	3.0	#157 IPHAS	2	
0062.COMP	10	09:36	20:44:26.8	+45:26:55	300	90	3.0	#157 IPHAS	2	
0063.IPHAS_W3386	900	09:37	20:44:43.6	+46:06:57	300	90	3.0	#157 IPHAS	2	
0064.COMP	10	09:53	20:44:43.6	+46:06:57	300	90	3.0	#157 IPHAS	2	

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0065.IPHAS_W3402	600	09:54	20:46:36.8	+43:44:35	300	90	3.0	#157 IPHAS	2	
0066.COMP	10	10:04	20:46:36.8	+43:44:35	300	91	3.0	#157 IPHAS	2	
0067.IPHAS_W3405	600	10:05	20:46:44.1	+45:58:32	300	91	3.0	#157 IPHAS	2	
0068.COMP	10	10:16	20:46:44.1	+45:58:32	300	90	3.0	#157 IPHAS	2	
0069.IPHAS_W3415	600	10:17	20:47:22.1	+47:58:41	300	90	3.0	#157 IPHAS	2	
0070.COMP	10	10:28	20:47:22.1	+47:58:41	300	90	3.0	#157 IPHAS	2	
0071.IPHAS_W3438	420	10:29	20:49:07.6	+49:15:08	300	90	3.0	#157 IPHAS	2	
0072.COMP	10	10:37	20:49:07.6	+49:15:08	300	90	3.0	#157 IPHAS	2	
0073.IPHAS_W3466	420	10:38	20:51:40.7	+42:12:20	300	90	3.0	#157 IPHAS	2	
0074.COMP	10	10:45	20:51:40.7	+42:12:20	300	90	3.0	#157 IPHAS	2	
0075.IPHAS_W3467	420	10:46	20:51:51.2	+40:11:07	300	90	3.0	#157 IPHAS	2	
0076.COMP	10	10:54	20:51:51.2	+40:11:07	300	90	3.0	#157 IPHAS	2	
0077.BDp174708	75	10:56	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0078.COMP	10	10:58	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0079.N313311705	300	11:00	21:06:26.3	+17:57:07	300	90	3.0	#192 DASCH Lon	2	
0080.COMP	10	11:05	21:06:26.3	+17:57:07	300	90	3.0	#192 DASCH Lon	2	
0081.NO31322285	180	11:06	21:10:23.5	+14:04:46	300	90	3.0	#192 DASCH Lon	2	
0082.COMP	10	11:10	21:10:23.5	+14:04:46	300	90	3.0	#192 DASCH Lon	2	
0083.NO31123054	120	11:11	21:34:00.7	+17:45:00	300	90	3.0	#192 DASCH Lon	2	
0084.COMP	10	11:13	21:34:00.7	+17:45:00	300	90	3.0	#192 DASCH Lon	2	

UT Date 2012-07-16 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0085.K00987291	10	11:14	20:13:50.3	+36:37:23	300	90	3.0	#192 DASCH Lon	2	
0086.K00987291	20	11:15	20:13:50.3	+36:37:23	300	90	3.0	#192 DASCH Lon	2	
0087.COMP	10	11:16	20:13:50.3	+36:37:23	300	90	3.0	#192 DASCH Lon	2	
0088.K10047202	240	11:17	20:13:37.1	+46:54:24	300	90	3.0	#192 DASCH Lon	2	
0089.COMP	10	11:21	20:13:37.1	+46:54:24	300	91	3.0	#192 DASCH Lon	2	
0090.K09859386	20	11:22	20:05:25.7	+46:40:19	300	91	3.0	#192 DASCH Lon	2	
0091.K09859386	20	11:23	20:05:25.7	+46:40:19	300	91	3.0	#192 DASCH Lon	2	
0092.COMP	10	11:24	20:11:54.4	+40:00:30	300	91	3.0	#192 DASCH Lon	2	
0093.K04974759	120	11:25	20:11:54.4	+40:00:30	300	91	3.0	#192 DASCH Lon	2	
0094.COMP	10	11:27	20:11:54.4	+40:00:30	300	91	3.0	#192 DASCH Lon	2	
0095.K00295690	120	11:28	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	
0096.COMP	10	11:30	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	
0097-0106.BIAS	0	11:34	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	
0107-0121.FLAT	7	11:40	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	
0122-0126.DARK	900	12:44	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	22:54	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	
0006-0015.BIAS	0	01:29	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	
0016-0030.FLAT	7	01:35	20:08:04.6	+36:07:26	300	91	3.0	#192 DASCH Lon	2	
0031.BDp262606	75	03:39	14:49:02.4	+25:42:09	300	91	3.0	#56 Spectropho	2	
0032.BDp262606	75	03:40	14:49:02.4	+25:42:09	300	91	3.0	#56 Spectropho	2	
0033.COMP	10	03:42	14:49:02.4	+25:42:09	300	91	3.0	#56 Spectropho	2	
0034.BDp332642	180	03:43	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	2	
0035.COMP	10	03:47	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	2	
0036.sn2012cg	221	03:51	12:27:12.8	+09:25:13	300	91	3.0	#2 SN Observat	2	ok, clouds
0037.sn2012cg	563	03:58	12:27:12.8	+09:25:13	300	91	3.0	#2 SN Observat	2	ok, clouds
0038.COMP	10	04:08	12:27:12.8	+09:25:13	300	91	3.0	#2 SN Observat	2	
0039.test	10	04:17	17:00:00.0	+32:00:00	600	91	2.0	#2 SN Observat	2	stopped by clouds
0040.test	10	04:18	17:00:00.0	+32:00:00	600	91	2.0	#2 SN Observat	2	
0041.FLAT	10	04:23	16:04:50.8	+39:09:36	600	91	2.0	#204 M-Dwarf R	2	600-line, 2-sec, 752, red
0042-0055.FLAT	10	04:28	16:04:50.8	+39:09:36	600	91	2.0	#204 M-Dwarf R	2	
0056.G1505B	61	04:43	13:16:51.6	+17:01:00	600	71	2.0	#204 M-Dwarf R	2	
0057.G1505A	10	04:44	13:16:51.6	+17:01:00	600	71	2.0	#204 M-Dwarf R	2	
0058.COMP	10	04:45	13:16:51.6	+17:01:00	600	71	2.0	#204 M-Dwarf R	2	
0059.LSPMJ1535+6005E	180	05:36	15:35:25.7	+60:05:08	600	71	2.0	#204 M-Dwarf R	2	
0060.COMP	10	05:40	15:35:25.7	+60:05:08	600	71	2.0	#204 M-Dwarf R	2	

UT Date 2012-07-17 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0061.LSPMJ1604+3909W	420	05:43	16:04:50.8	+39:09:36	600	71	2.0	#204 M-Dwarf R	2	
0062.COMP	10	05:50	16:04:50.8	+39:09:36	600	71	2.0	#204 M-Dwarf R	2	
0063.LSPMJ1800+2933	150	05:52	18:00:45.4	+29:33:57	600	90	2.0	#204 M-Dwarf R	2	
0064.COMP	5	05:55	18:00:45.4	+29:33:57	600	90	2.0	#204 M-Dwarf R	2	
0065.G1768.1B	300	05:57	19:51:00.7	+10:24:40	600	90	2.0	#204 M-Dwarf R	2	
0066.COMP	5	06:03	19:51:00.7	+10:24:40	600	89	2.0	#204 M-Dwarf R	2	
0067.lspm3857	720	06:04	20:25:00.0	+02:25:57	600	89	2.0	#204 M-Dwarf R	2	
0068.COMP	5	06:16	20:25:00.0	+02:25:57	600	90	2.0	#204 M-Dwarf R	2	
0069.lspm3776	1800	06:18	19:25:30.9	+09:38:23	600	90	2.0	#204 M-Dwarf R	2	faint target, at row 78
0070.COMP	5	06:48	19:25:30.9	+09:38:23	600	90	2.0	#204 M-Dwarf R	2	
0071.LSPMJ2003+2951	300	06:50	20:03:26.6	+29:52:00	600	90	2.0	#204 M-Dwarf R	2	
0072.COMP	5	06:55	20:03:26.6	+29:52:00	600	90	2.0	#204 M-Dwarf R	2	
0073.LSPMJ2040+1954	90	06:57	20:40:44.5	+19:54:03	600	90	2.0	#204 M-Dwarf R	2	
0074.COMP	5	06:58	20:40:44.5	+19:54:03	600	90	2.0	#204 M-Dwarf R	2	
0075.lspm3875	720	07:01	20:40:26.9	+65:00:27	600	90	2.0	#204 M-Dwarf R	2	
0076.COMP	5	07:13	20:40:26.9	+65:00:27	600	88	2.0	#204 M-Dwarf R	2	
0077.lspm1557	600	07:15	22:24:55.9	+52:00:19	600	88	2.0	#204 M-Dwarf R	2	
0078.COMP	5	07:25	22:24:55.9	+52:00:19	600	90	2.0	#204 M-Dwarf R	2	
0079.BDp404032	180	07:27	20:08:24.1	+41:15:04	600	90	2.0	#204 M-Dwarf R	2	
0080.COMP	5	07:30	20:08:24.1	+41:15:04	600	90	2.0	#204 M-Dwarf R	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0081.HD192281	20	07:31	20:12:33.1	+40:16:05	600	90	2.0	#204 M-Dwarf R	2	
0082.COMP	5	07:32	20:12:33.1	+40:16:05	600	90	2.0	#204 M-Dwarf R	2	
0083.test	10	07:35	20:30:00.0	+32:00:00	300	90	3.0	#204 M-Dwarf R	2	
0084.test	10	07:36	20:30:00.0	+32:00:00	300	90	3.0	#204 M-Dwarf R	2	
0085.V919Sgr	20	07:39	19:03:45.0	-16:59:56	300	90	3.0	#12 Symbiotic	2	
0086.V919Sgr	90	07:40	19:03:45.0	-16:59:56	300	90	3.0	#12 Symbiotic	2	
0087.COMP	10	07:41	19:03:45.0	-16:59:56	300	90	3.0	#12 Symbiotic	2	
0088.sn2012dn	886	07:42	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	
0088.sn2012dnq.ms	886	07:42	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	1	
0089.COMP	10	07:58	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	
0090-0099.BIAS	0	10:14	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	
0100-0114.FLAT	7	10:20	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	02:17	14:35:29.6	+31:33:40	300	89	3.0	#2 SN Observat	4	
0011-0030.FLAT	10	02:34	14:46:09.6	+31:33:32	300	89	3.0	#2 SN Observat	2	
0031-0040.BIAS	0	03:02	14:46:09.6	+31:33:32	300	89	3.0	#2 SN Observat	2	
0041.BDp262606	60	03:25	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0042.COMP	10	03:26	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0043.BDp332642	120	03:28	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0044.COMP	10	03:31	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0045.sn2012cg	1200	03:34	12:27:12.8	+09:25:13	300	104	3.0	#2 SN Observat	2	
0046.COMP	10	03:54	12:27:12.8	+09:25:13	300	104	3.0	#2 SN Observat	2	
0047.sn2012cu	1800	03:57	12:53:29.3	+02:09:39	300	91	3.0	#2 SN Observat	2	
0048.COMP	10	04:27	12:53:29.3	+02:09:39	300	91	3.0	#2 SN Observat	2	
0049.sn2012da	1800	05:02	13:02:33.7	+27:26:11	300	91	3.0	#2 SN Observat	2	
0050.COMP	10	05:33	13:02:33.7	+27:26:11	300	90	3.0	#2 SN Observat	2	
0051.17484228-0310584	1800	06:21	17:48:42.3	-03:10:58	300	70	3.0	#141 2Mass Red	2	
0052.17484228-0310584	1800	06:51	17:48:42.3	-03:10:58	300	70	3.0	#141 2Mass Red	2	
0053.COMP	10	07:21	17:48:42.3	-03:10:58	300	70	3.0	#141 2Mass Red	2	
0054.sn2012dn	1200	07:24	20:23:36.3	-28:16:43	300	90	3.0	#2 SN Observat	2	
0055.COMP	10	07:45	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	
0056.TCrB	15	07:48	15:59:30.0	+25:55:12	300	89	3.0	#12 Symbiotic	2	
0057.TCrB	60	07:49	15:59:30.0	+25:55:12	300	89	3.0	#12 Symbiotic	2	

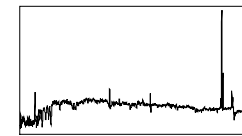


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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0058.COMP	10	07:50	15:59:30.0	+25:55:12	300	89	3.0	#12 Symbiotic	2	
0059.AGDra	2	07:54	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0060.AGDra	60	07:55	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0061.COMP	10	07:57	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0062.YYHer	60	08:02	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0063.YYHer	300	08:03	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0064.COMP	10	08:09	18:14:34.0	+20:59:19	300	90	3.0	#12 Symbiotic	2	
0065.AS296	30	08:10	18:15:07.0	-00:18:52	300	90	3.0	#12 Symbiotic	2	
0066.AS296	120	08:11	18:15:07.0	-00:18:52	300	90	3.0	#12 Symbiotic	2	
0067.COMP	10	08:14	18:15:07.0	-00:18:52	300	90	3.0	#12 Symbiotic	2	
0068.19560725+0139030	1800	08:26	19:56:07.3	+01:39:03	300	90	3.0	#141 2Mass Red	2	in & out of clouds
0069.COMP	10	08:56	19:56:07.3	+01:39:03	300	89	3.0	#141 2Mass Red	2	
0070.19582858+0215463	420	08:58	19:58:28.6	+02:15:46	300	89	3.0	#141 2Mass Red	2	row=87
0071.COMP	10	09:05	19:58:28.6	+02:15:46	300	90	3.0	#141 2Mass Red	2	
0072.19560973+7137544	480	09:08	19:56:09.7	+71:37:54	300	90	3.0	#141 2Mass Red	2	
0073.COMP	10	09:17	19:56:09.7	+71:37:54	300	89	3.0	#141 2Mass Red	2	
0074.19581342+7758344	600	09:18	19:58:13.4	+77:58:34	300	89	3.0	#141 2Mass Red	2	
0075.COMP	10	09:29	19:58:13.4	+77:58:34	300	89	3.0	#141 2Mass Red	2	
0076.20142578+0324034	300	09:31	20:14:25.8	+03:24:03	300	89	3.0	#141 2Mass Red	2	
0077.COMP	10	09:37	20:14:25.8	+03:24:03	300	89	3.0	#141 2Mass Red	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0078.20164015+0212569	240	09:39	20:16:40.1	+02:12:57	300	89	3.0	#141 2Mass Red	2	
0079.COMP	10	09:43	20:16:40.1	+02:12:57	300	89	3.0	#141 2Mass Red	2	
0080.20180163+7035042	480	09:46	20:18:01.6	+70:35:04	300	89	3.0	#141 2Mass Red	2	
0081.COMP	10	09:54	20:18:01.6	+70:35:04	300	89	3.0	#141 2Mass Red	2	
0082.20200788+0408065	600	09:57	20:20:07.9	+04:08:07	300	89	3.0	#141 2Mass Red	2	
0083.COMP	10	10:08	20:20:07.9	+04:08:07	300	89	3.0	#141 2Mass Red	2	
0084.20212649+0716194	300	10:09	20:21:26.5	+07:16:19	300	89	3.0	#141 2Mass Red	2	
0085.COMP	10	10:15	20:21:26.5	+07:16:19	300	89	3.0	#141 2Mass Red	2	
0086.20224280+0258137	420	10:16	20:22:42.8	+02:58:14	300	89	3.0	#141 2Mass Red	2	
0087.COMP	10	10:24	20:22:42.8	+02:58:14	300	90	3.0	#141 2Mass Red	2	
0088.20230163+0252228	240	10:25	20:23:01.6	+02:52:23	300	90	3.0	#141 2Mass Red	2	
0089.COMP	10	10:30	20:23:01.6	+02:52:23	300	90	3.0	#141 2Mass Red	2	
0090.20242566-0703537	240	10:31	20:24:25.7	-07:03:54	300	90	3.0	#141 2Mass Red	2	
0091.COMP	10	10:36	20:24:25.7	-07:03:54	300	89	3.0	#141 2Mass Red	2	
0092.J2550.08+400340.3	300	10:38	20:25:50.0	+40:03:40	300	89	3.0	#183 CygX_YSOs	2	
0093.COMP	10	10:44	20:25:50.0	+40:03:40	300	89	3.0	#183 CygX_YSOs	2	
0094.J2222.16+411311.2	180	10:45	20:22:22.0	+41:13:11	300	89	3.0	#183 CygX_YSOs	2	
0095.COMP	10	10:48	20:22:22.0	+41:13:11	300	89	3.0	#183 CygX_YSOs	2	
0096.K4644922	300	10:50	19:15:12.1	+39:42:50	300	89	3.0	#192 DASCH Lon	2	
0097.COMP	10	10:55	19:15:12.1	+39:42:50	300	90	3.0	#192 DASCH Lon	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0098.RAqr	1	10:58	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0099.RAqr	5	10:59	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0100.RAqr	10	10:59	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0101.COMP	10	11:00	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0102.EGAnd	1	11:02	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0103.EGAnd	5	11:02	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0104.EGAnd	10	11:03	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0105.COMP	10	11:03	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0106.AXPer	4	11:05	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0107.AXPer	30	11:05	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0108.AXPer	90	11:06	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0109.COMP	10	11:09	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0110.BDp284211	120	11:10	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0111.COMP	10	11:13	21:51:11.0	+28:51:50	300	88	3.0	#56 Spectropho	2	
0112.BDp174708	25	11:14	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0113.COMP	10	11:15	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0114.M31	60	11:17	00:42:44.3	+41:16:09	300	88	3.0	#57 Velocity S	2	
0115.COMP	10	11:19	00:42:44.3	+41:16:09	300	88	3.0	#57 Velocity S	2	
0116.02482508+4758003	360	11:22	02:48:25.1	+47:58:00	300	88	3.0	#141 2Mass Red	2	
0117.COMP	10	11:28	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	2	

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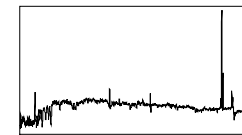
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0118-0127.BIAS	0	11:38	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	2	
0128-0147.FLAT	10	11:46	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	2	
0148-0157.DARK	900	14:06	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	2	

UT Date 2012-07-19 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	21:58	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	4	
0011-0020.BIAS	0	01:12	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	4	
0021-0040.FLAT	10	01:21	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	2	
0041-0050.BIAS	0	01:25	02:48:25.1	+47:58:00	300	89	3.0	#141 2Mass Red	2	
0051.BDp332642	150	03:36	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0052.COMP	10	03:39	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0053.BDp262606	80	03:41	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	clouds coming in
0054.COMP	10	03:43	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0055.AS270	90	06:53	18:05:33.7	-20:20:38	300	89	3.0	#12 Symbiotic	2	
0056.AS270	480	06:55	18:05:33.7	-20:20:38	300	89	3.0	#12 Symbiotic	2	
0057.COMP	10	07:03	18:05:33.7	-20:20:38	300	90	3.0	#12 Symbiotic	2	
0058.DracoC1	1500	07:07	17:19:58.0	+57:50:06	300	90	3.0	#12 Symbiotic	2	
0059.COMP	10	07:33	17:19:58.0	+57:50:06	300	89	3.0	#12 Symbiotic	2	
0060.Hen1674	120	07:56	18:20:19.1	-26:22:46	300	90	3.0	#12 Symbiotic	2	
0061.Hen1674	600	08:00	18:20:19.1	-26:22:46	300	90	3.0	#12 Symbiotic	2	
0062.COMP	10	08:11	18:20:19.1	-26:22:46	300	89	3.0	#12 Symbiotic	2	
0063.AS316	30	08:13	18:42:33.0	-21:17:47	300	89	3.0	#12 Symbiotic	2	
0064.AS316	300	08:14	18:42:33.0	-21:17:47	300	89	3.0	#12 Symbiotic	2	
0065.COMP	10	08:19	18:42:33.0	-21:17:47	300	89	3.0	#12 Symbiotic	2	
0066.sn2012dn	1800	08:25	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	

UT Date 2012-07-19 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>
0067.COMP	10	08:56	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	
0068-0087.FLAT	10	11:23	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	
0088-0097.BIAS	0	11:25	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	
0098-0107.DARK	900	13:49	20:23:36.3	-28:16:43	300	89	3.0	#2 SN Observat	2	

UT Date 2012-07-20 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	23:39	11:50:47.6	+31:34:41	300	88	3.0	0 Calibration	2	
0002-0006.DARK	900	00:49	12:13:56.3	+32:56:31	300	88	3.0	0 Calibration	2	
0007-0016.BIAS	0	02:06	12:13:56.3	+32:56:31	300	88	3.0	0 Calibration	2	
0017-0031.FLAT	7	02:12	12:13:56.3	+32:56:31	300	88	3.0	0 Calibration	2	
0032.N300020224	90	04:40	18:29:07.0	+48:01:49	300	88	3.0	#192 DASCH Lon	2	
0033.COMP	10	04:43	18:29:07.0	+48:01:49	300	88	3.0	0 Calibration	2	
0034.K07869590	300	04:44	18:47:06.3	+43:40:34	300	88	3.0	#192 DASCH Lon	2	
0035.COMP	10	04:49	18:47:06.3	+43:40:34	300	88	3.0	0 Calibration	2	
0036.K05630212	180	04:52	19:39:10.0	+40:52:15	300	88	3.0	#192 DASCH Lon	2	
0037.COMP	10	04:55	19:39:10.0	+40:52:15	300	88	3.0	0 Calibration	2	
0038.K11913071	45	04:56	19:24:14.7	+50:15:20	300	88	3.0	#192 DASCH Lon	2	
0039.COMP	10	04:57	19:24:14.7	+50:15:20	300	88	3.0	0 Calibration	2	
0040.K05471548	420	04:59	19:50:43.7	+40:40:44	300	88	3.0	#192 DASCH Lon	2	
0041.COMP	10	05:06	19:50:43.7	+40:40:44	300	89	3.0	0 Calibration	2	
0042.K09859386	20	05:07	20:05:25.7	+46:40:19	300	89	3.0	#192 DASCH Lon	2	
0043.COMP	10	05:08	20:05:25.7	+46:40:19	300	89	3.0	0 Calibration	2	
0044.IPHAS_W3025	504	06:28	20:06:43.8	+36:48:00	300	88	3.0	#157 IPHAS	2	
0045.COMP	10	06:37	20:06:43.8	+36:48:00	300	88	3.0	0 Calibration	2	
0046.sn2012dn	702	07:54	20:23:36.3	-28:16:43	300	90	3.0	#2 SN Observat	2	
0047.COMP	10	08:06	20:23:36.3	-28:16:43	300	90	3.0	0 Calibration	2	

UT Date 2012-07-20 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0048.sn2012dn	1425	08:07	20:23:36.3	-28:16:43	300	90	3.0	#2 SN Observat	2	
0049.COMP	10	08:31	20:23:36.3	-28:16:43	300	90	3.0	0 Calibration	2	
0050.IPHAS_W3026	411	08:34	20:06:47.1	+32:51:56	300	90	3.0	#157 IPHAS	2	
0051.COMP	10	08:41	20:06:47.1	+32:51:56	300	90	3.0	0 Calibration	2	
0052.BDp284211	180	08:43	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0053.BDp284211	240	08:47	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0054.COMP	10	08:52	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0055.IPHAS_W3048	470	08:55	20:07:44.6	+35:22:49	300	90	3.0	#157 IPHAS	2	
0056.COMP	10	09:03	20:07:44.6	+35:22:49	300	89	3.0	0 Calibration	2	
0057.IPHAS_W3292	480	09:04	20:25:44.3	+46:07:25	300	89	3.0	#157 IPHAS	2	
0058.COMP	10	09:13	20:25:44.3	+46:07:25	300	88	3.0	0 Calibration	2	
0059.BDp174708	120	09:34	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0060.COMP	10	09:36	22:11:31.4	+18:05:34	300	88	3.0	0 Calibration	2	stop and go through clouds
0061.22522047+1619037	896	09:47	22:52:20.5	+16:19:04	300	88	3.0	#141 2Mass Red	2	
0062.COMP	10	10:02	22:52:20.5	+16:19:04	300	88	3.0	0 Calibration	2	
0063.22273645-1058485	600	10:04	22:27:36.4	-10:58:49	300	88	3.0	#141 2Mass Red	2	
0064.COMP	10	10:14	22:27:36.4	-10:58:49	300	88	3.0	0 Calibration	2	
0065.21513240+2111461	721	10:26	21:51:32.4	+21:11:46	300	88	3.0	#141 2Mass Red	2	
0066.COMP	10	10:39	21:51:32.4	+21:11:46	300	88	3.0	0 Calibration	2	
0067.22211891-1217110	721	10:40	22:21:18.9	-12:17:11	300	85	3.0	#141 2Mass Red	2	comp gal to east also in slit at row 72



UT Date 2012-07-20 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>
0068.COMP	10	10:53	22:21:18.9	-12:17:11	300	85	3.0	0 Calibration	2	
0069.22421431+0707549	567	10:55	22:42:14.3	+07:07:55	300	85	3.0	#141 2Mass Red	2	clouds
0070.COMP	10	11:06	22:42:14.3	+07:07:55	300	85	3.0	0 Calibration	2	
0071.AXPer	60	11:08	01:36:23.0	+54:15:03	300	85	3.0	#12 Symbiotic	2	
0072.AXPer	360	11:10	01:36:23.0	+54:15:03	300	85	3.0	#12 Symbiotic	2	
0073.AXPer	360	11:19	01:36:23.0	+54:15:03	300	85	3.0	#12 Symbiotic	2	
0074.COMP	10	11:25	01:36:23.0	+54:15:03	300	85	3.0	0 Calibration	2	
0075-0084.BIAS	0	11:29	01:36:23.0	+54:15:03	300	85	3.0	0 Calibration	2	
0085-0099.FLAT	7	11:34	01:36:23.0	+54:15:03	300	85	3.0	0 Calibration	2	

UT Date 2012-07-21 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	20:54	01:36:23.0	+54:15:03	300	85	3.0	0 Calibration	2	
0002-0006.DARK	900	21:56	01:36:23.0	+54:15:03	300	85	3.0	0 Calibration	2	
0007-0016.BIAS	0	02:52	01:36:23.0	+54:15:03	300	85	3.0	0 Calibration	2	
0017-0031.FLAT	7	02:58	01:36:23.0	+54:15:03	300	85	3.0	0 Calibration	2	
0032.AS289	30	05:02	18:12:22.0	-11:40:08	300	85	3.0	#12 Symbiotic	2	
0033.AS289	219	05:03	18:12:22.0	-11:40:08	300	85	3.0	#12 Symbiotic	2	
0034.AS289	120	05:07	18:12:22.0	-11:40:08	300	85	3.0	#12 Symbiotic	2	
0035.COMP	10	05:10	18:12:22.0	-11:40:08	300	85	3.0	0 Calibration	2	
0036.17205608-0103093	480	05:11	17:20:56.1	-01:03:09	300	85	3.0	#141 2Mass Red	2	
0037.COMP	10	05:20	17:20:56.1	-01:03:09	300	85	3.0	0 Calibration	2	
0038.17414588-0359581	900	05:21	17:41:45.9	-03:59:58	300	85	3.0	#141 2Mass Red	2	
0039.COMP	10	05:37	17:41:45.9	-03:59:58	300	85	3.0	0 Calibration	2	
0040.14583228+4829040	600	05:39	14:58:32.3	+48:29:04	300	85	3.0	#141 2Mass Red	2	
0041.COMP	10	05:49	14:58:32.3	+48:29:04	300	85	3.0	0 Calibration	2	
0042.J2256.01+392821.9	360	06:17	20:22:56.0	+39:28:21	300	85	3.0	#183 CygX_YSOs	2	
0043.J2128.77+390224.9	301	06:24	20:21:28.0	+39:02:24	300	82	3.0	#183 CygX_YSOs	2	
0044.J4202.52+393325.5	360	06:30	20:42:02.0	+39:33:25	300	82	3.0	#183 CygX_YSOs	2	
0045.COMP	10	06:36	20:42:02.0	+39:33:25	300	83	3.0	0 Calibration	2	
0046.20261182+0346470	480	06:38	20:26:11.8	+03:46:47	300	83	3.0	#141 2Mass Red	2	
0047.COMP	10	06:47	20:26:11.8	+03:46:47	300	85	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0048.20280695+0102119	781	06:48	20:28:06.9	+01:02:12	300	84	3.0	#141 2Mass Red	2	
0049.COMP	10	07:01	20:28:06.9	+01:02:12	300	84	3.0	0 Calibration	2	
0050.20281636+0203009	600	07:02	20:28:16.4	+02:03:01	300	84	3.0	#141 2Mass Red	2	
0051.COMP	10	07:12	20:28:16.4	+02:03:01	300	85	3.0	0 Calibration	2	
0052.sn2012dn	1800	07:15	20:23:36.3	-28:16:43	300	90	3.0	#2 SN Observat	2	
0053.COMP	10	07:45	20:23:36.3	-28:16:43	300	89	3.0	0 Calibration	2	
0054.20262334-1109469	480	07:47	20:26:23.3	-11:09:47	300	89	3.0	#141 2Mass Red	2	
0055.COMP	10	07:55	20:26:23.3	-11:09:47	300	91	3.0	0 Calibration	2	
0056.20291553-0800056	900	07:57	20:29:15.5	-08:00:06	300	91	3.0	#141 2Mass Red	2	
0057.COMP	10	08:12	20:29:15.5	-08:00:06	300	90	3.0	0 Calibration	2	
0058.20333908+0240597	480	08:13	20:33:39.1	+02:41:00	300	90	3.0	#141 2Mass Red	2	
0059.COMP	10	08:22	20:33:39.1	+02:41:00	300	90	3.0	0 Calibration	2	
0060.BDp284211	240	08:23	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0061.COMP	10	08:27	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0062.21380590+2706556	600	08:29	21:38:05.9	+27:06:56	300	90	3.0	#141 2Mass Red	2	
0063.COMP	10	08:39	21:38:05.9	+27:06:56	300	91	3.0	0 Calibration	2	
0064.21391992+3354285	600	09:32	21:39:19.9	+33:54:28	300	95	3.0	#141 2Mass Red	2	
0065.COMP	10	09:42	21:39:19.9	+33:54:28	300	95	3.0	0 Calibration	2	
0066.22340262+3349070	300	09:45	22:34:02.6	+33:49:07	300	90	3.0	#141 2Mass Red	2	
0067.COMP	10	09:50	22:34:02.6	+33:49:07	300	90	3.0	0 Calibration	2	

UT Date 2012-07-21 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0068.22291992+4207079	480	09:51	22:29:19.9	+42:07:08	300	90	3.0	#141 2Mass Red	2	
0069.COMP	10	10:00	22:29:19.9	+42:07:08	300	90	3.0	0 Calibration	2	
0070.22342224+4132129	435	10:01	22:34:22.2	+41:32:13	300	90	3.0	#141 2Mass Red	2	clouds, em
0071.COMP	10	10:08	22:34:22.2	+41:32:13	300	90	3.0	0 Calibration	2	
0072.21192561+6538307	1200	10:10	21:19:25.6	+65:38:31	300	90	3.0	#141 2Mass Red	2	
0073.COMP	10	10:31	21:19:25.6	+65:38:31	300	91	3.0	0 Calibration	2	
0074.AXPer	120	10:36	01:36:23.0	+54:15:03	300	91	3.0	#12 Symbiotic	2	
0075.AXPer	300	10:38	01:36:23.0	+54:15:03	300	91	3.0	#12 Symbiotic	2	
0076.COMP	10	10:44	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0077-0086.BIAS	0	10:56	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0087-0101.FLAT	7	11:01	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	

UT Date 2012-07-22 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.BIAS	0	21:05	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0002-0006.DARK	900	22:06	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0007-0016.BIAS	0	01:08	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0017-0031.FLAT	7	01:14	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0032.15161963-2032089	1087	03:55	15:16:19.6	-20:32:09	300	90	3.0	#141 2Mass Red	2	weak, clouds, 200cnts
0033.COMP	10	04:14	15:16:19.6	-20:32:09	300	90	3.0	0 Calibration	2	
0034.BIAS	0	10:11	13:38:12.1	+52:25:46	300	90	3.0	0 Calibration	2	

UT Date 2012-07-23 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	22:50	13:38:12.1	+52:25:46	300	90	3.0	0 Calibration	2	
0002-0006.DARK	900	23:52	13:38:12.1	+52:25:46	300	90	3.0	0 Calibration	2	
0007-0016.BIAS	0	01:07	13:38:12.1	+52:25:46	300	90	3.0	0 Calibration	2	
0017-0031.FLAT	7	01:12	13:38:12.1	+52:25:46	300	90	3.0	0 Calibration	2	
0032.13381212+5225459	551	04:04	13:38:12.1	+52:25:46	300	90	3.0	#141 2Mass Red	2	Halp ha em pix 2358
0033.COMP	10	04:14	13:38:12.1	+52:25:46	300	90	3.0	0 Calibration	2	
0034.Hen1591	120	07:10	18:07:32.0	-25:53:43	300	90	3.0	#12 Symbiotic	2	
0035.Hen1591	600	07:12	18:07:32.0	-25:53:43	300	91	3.0	#12 Symbiotic	2	
0036.COMP	10	07:23	18:07:32.0	-25:53:43	300	91	3.0	0 Calibration	2	
0037.AS327	45	07:23	18:53:17.0	-24:22:59	300	91	3.0	#12 Symbiotic	2	
0038.AS327	600	07:25	18:53:17.0	-24:22:59	300	91	3.0	#12 Symbiotic	2	
0039.COMP	10	07:35	18:53:17.0	-24:22:59	300	90	3.0	0 Calibration	2	
0040.RSOph	120	07:38	17:50:13.0	-06:42:30	300	90	3.0	#12 Symbiotic	2	
0041.RSOph	60	07:40	17:50:13.0	-06:42:30	300	90	3.0	#12 Symbiotic	2	
0042.COMP	10	07:42	17:50:13.0	-06:42:30	300	90	3.0	0 Calibration	2	
0043.XX0ph	5	07:43	17:43:56.0	-06:16:08	300	90	3.0	#12 Symbiotic	2	
0044.XX0ph	20	07:43	17:43:56.0	-06:16:08	300	90	3.0	#12 Symbiotic	2	
0045.COMP	10	07:44	17:43:56.0	-06:16:08	300	90	3.0	0 Calibration	2	
0046.K4644922	240	07:46	19:15:12.1	+39:42:50	300	90	3.0	#192 DASCH Lon	2	
0047.COMP	10	07:50	19:15:12.1	+39:42:50	300	90	3.0	0 Calibration	2	

UT Date 2012-07-23 Observers P BerlindColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0048.K10614158	600	07:52	19:47:54.1	+47:53:12	300	90	3.0	#192 DASCH Lon	2	correct ID
0049.COMP	10	08:02	19:47:54.1	+47:53:12	300	90	3.0	0 Calibration	2	
0050.BDp284211	240	08:07	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0051.COMP	10	08:11	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0052.22362167+3816428	900	08:13	22:36:21.7	+38:16:43	300	90	3.0	#141 2Mass Red	2	
0053.COMP	10	08:28	22:36:21.7	+38:16:43	300	90	3.0	0 Calibration	2	
0054.22393210+3651136	598	08:29	22:39:32.1	+36:51:14	300	90	3.0	#141 2Mass Red	2	
0055.22393210+3651136	900	08:39	22:39:32.1	+36:51:14	300	90	3.0	#141 2Mass Red	2	
0056.COMP	10	08:55	22:39:32.1	+36:51:14	300	90	3.0	0 Calibration	2	
0057.22431140+3729111	900	08:56	22:43:11.4	+37:29:11	300	90	3.0	#141 2Mass Red	2	
0058.COMP	10	09:12	22:43:11.4	+37:29:11	300	90	3.0	0 Calibration	2	
0059.22434865+4247254	360	09:13	22:43:48.6	+42:47:25	300	90	3.0	#141 2Mass Red	2	
0060.COMP	10	09:19	22:43:48.6	+42:47:25	300	89	3.0	0 Calibration	2	
0061.22471598+4437459	1200	09:21	22:47:16.0	+44:37:46	300	89	3.0	#141 2Mass Red	2	
0062.COMP	10	09:41	22:47:16.0	+44:37:46	300	90	3.0	0 Calibration	2	
0063.22461635+3956070	600	09:42	22:46:16.4	+39:56:07	300	90	3.0	#141 2Mass Red	2	
0064.COMP	10	09:53	22:46:16.4	+39:56:07	300	90	3.0	0 Calibration	2	
0065.22520937+3741024	511	09:54	22:52:09.4	+37:41:02	300	61	3.0	#141 2Mass Red	2	
0066.COMP	10	10:03	22:52:09.4	+37:41:02	300	61	3.0	0 Calibration	2	
0067.22532771+3339069	1200	10:05	22:53:27.7	+33:39:07	300	90	3.0	#141 2Mass Red	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0068.COMP	10	10:25	22:53:27.7	+33:39:07	300	89	3.0	0 Calibration	2	
0069.23585539-0333164	900	10:27	23:58:55.4	-03:33:16	300	89	3.0	#141 2Mass Red	2	bright star off to west, some stray light
0070.COMP	10	10:42	23:58:55.4	-03:33:16	300	90	3.0	0 Calibration	2	
0071.00051594+4151166	600	10:45	00:05:15.9	+41:51:17	300	90	3.0	#141 2Mass Red	2	
0072.COMP	10	10:55	00:05:15.9	+41:51:17	300	90	3.0	0 Calibration	2	
0073.00294581+3729300	300	10:56	00:29:45.8	+37:29:30	300	90	3.0	#141 2Mass Red	2	
0074.COMP	10	11:02	00:29:45.8	+37:29:30	300	90	3.0	0 Calibration	2	
0075.00580323+4614433	720	11:03	00:58:03.2	+46:14:43	300	89	3.0	#141 2Mass Red	2	
0076.COMP	10	11:15	00:58:03.2	+46:14:43	300	89	3.0	0 Calibration	2	
0077.01004332+4316240	300	11:16	01:00:43.3	+43:16:24	300	89	3.0	#141 2Mass Red	2	
0078.COMP	10	11:22	01:00:43.3	+43:16:24	300	90	3.0	0 Calibration	2	
0079.225m280	300	11:23	00:44:29.8	+41:21:25	300	90	3.0	#57 Velocity S	2	
0080.COMP	10	11:28	00:44:29.8	+41:21:25	300	91	3.0	0 Calibration	2	
0081.AXPer	90	11:30	01:36:23.0	+54:15:03	300	91	3.0	#12 Symbiotic	2	
0082.AXPer	30	11:32	01:36:23.0	+54:15:03	300	91	3.0	#12 Symbiotic	2	
0083.AXPer	12	11:34	01:36:23.0	+54:15:03	300	91	3.0	#12 Symbiotic	2	
0084.COMP	10	11:34	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0085-0094.BIAS	0	11:38	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0095-0108.FLAT	7	11:43	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	
0109.FLAT	7	11:43	01:36:23.0	+54:15:03	300	91	3.0	0 Calibration	2	end of FAST run