

UT Date 2013-03-12 Observers BrownColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	21:29	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	CCD warming up
0002.COMP	10	21:31	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	
0003.test	10	21:33	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	
0005.DARK	600	21:36	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	dark = 12cnts/15min, acceptable
0006.BIAS	0	21:53	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	
0007.fastfoc	10	22:07	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	x7 foc=1350 at 10C
0008.fastfoc	10	22:08	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	
0009.fastfoc	10	22:08	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	
0010.fastfoc	10	22:09	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	
0011.fastfoc	10	22:09	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	
0012.fastfoc	10	22:10	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	
0013.fastfoc	10	22:10	01:23:18.9	+31:26:26	300	90	3.0	#199 Optical n	2	
0014.BIAS	0	22:53	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	x15
0015-0028.BIAS	0	22:56	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	
0029.DARK	900	22:59	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	x10
0030-0038.DARK	900	01:17	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	
0039.COMP	5	01:39	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	setting tilt
0040.COMP	5	01:43	01:23:18.9	+31:26:26	300	90	3.0	0 Calibration	2	
0043.FLAT	7	01:51	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	x15
0044-0057.FLAT	7	01:58	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	

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0058.Hiltner600	90	02:22	06:45:13.4	+02:08:15	300	90	3.0	#56 Spectropho	2	photometric
0059.COMP	10	02:24	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0060.GITau	240	02:26	04:33:34.0	+24:21:18	300	90	3.0	#12 Symbiotic	2	
0061.COMP	10	02:30	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0062.GKTau	240	02:31	04:33:34.5	+24:21:07	300	90	3.0	#12 Symbiotic	2	
0063.COMP	10	02:35	04:33:34.5	+24:21:07	300	90	3.0	0 Calibration	2	
0064.V826Tau	600	02:38	04:32:15.8	+18:01:38	300	89	3.0	#215 Grid of W	2	
0065.COMP	10	02:48	04:32:15.8	+18:01:38	300	89	3.0	0 Calibration	2	
0066.V827Tau	600	02:49	04:32:14.6	+18:20:14	300	90	3.0	#215 Grid of W	2	
0067.COMP	10	03:00	04:32:14.6	+18:20:14	300	90	3.0	0 Calibration	2	
0068.LkCa4	600	03:01	04:16:28.1	+28:07:35	300	90	3.0	#215 Grid of W	2	
0069.COMP	10	03:12	04:16:28.1	+28:07:35	300	89	3.0	0 Calibration	2	
0070.LkCa3	300	03:13	04:14:47.9	+27:52:34	300	90	3.0	#215 Grid of W	2	
0071.COMP	10	03:18	04:14:47.9	+27:52:34	300	90	3.0	0 Calibration	2	
0072.G1174	30	03:19	04:41:18.8	+20:54:05	300	90	3.0	#215 Grid of W	2	
0073.COMP	10	03:20	04:41:18.8	+20:54:05	300	90	3.0	0 Calibration	2	
0074.GJ2035	45	03:21	04:53:04.7	+22:14:06	300	90	3.0	#215 Grid of W	2	
0075.COMP	10	03:22	04:53:04.7	+22:14:06	300	90	3.0	0 Calibration	2	
0076.V397Aur	150	03:24	04:56:02.0	+30:21:03	300	90	3.0	#215 Grid of W	2	
0077.COMP	10	03:26	04:56:02.0	+30:21:03	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0078.V397Aur	180	03:27	04:56:02.0	+30:21:03	300	90	3.0	#215 Grid of W	2	
0079.G1217	25	03:31	05:46:01.9	+37:17:04	300	90	3.0	#215 Grid of W	2	
0080.COMP	10	03:32	05:46:01.9	+37:17:04	300	90	3.0	0 Calibration	2	
0081.BGGem	300	03:33	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	
0082.COMP	10	03:38	06:03:31.0	+27:41:50	300	90	3.0	0 Calibration	2	
0083.sn2013ai	1800	03:41	06:16:18.3	-21:22:33	300	90	3.0	#2 SN Observat	2	
0084.COMP	10	04:12	06:16:18.3	-21:22:33	300	88	3.0	0 Calibration	2	
0085.psn0807	900	04:13	08:07:06.7	-28:03:10	300	88	3.0	#2 SN Observat	2	
0086.COMP	10	04:28	08:07:06.7	-28:03:10	300	88	3.0	0 Calibration	2	
0087.SS129	300	04:30	07:32:45.0	-26:49:16	300	88	3.0	#12 Symbiotic	2	
0088.COMP	10	04:35	07:32:45.0	-26:49:16	300	89	3.0	0 Calibration	2	
0089.SS129	300	04:36	07:32:45.0	-26:49:16	300	89	3.0	#12 Symbiotic	2	
0090.BXMon	180	04:44	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0091.COMP	10	04:47	07:25:23.0	-03:35:51	300	89	3.0	0 Calibration	2	
0092.BXMon	15	04:48	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0093.hbcg005	1500	04:50	08:20:44.1	+47:19:20	300	80	3.0	#210 Brightest	2	obj is faint center
0094.COMP	10	05:16	08:20:44.1	+47:19:20	300	80	3.0	0 Calibration	2	
0095.hbcg006	1500	05:17	08:25:16.9	+47:08:33	300	89	3.0	#210 Brightest	2	
0096.COMP	10	05:42	08:25:16.9	+47:08:33	300	90	3.0	0 Calibration	2	
0097.hbcg013	1500	05:44	11:12:50.1	+13:28:30	300	90	3.0	#210 Brightest	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0098.COMP	10	06:10	11:12:50.1	+13:28:30	300	89	3.0	0 Calibration	2	
0099.hbcg014	1500	06:11	11:13:00.5	+13:26:36	300	89	3.0	#210 Brightest	2	
0100.COMP	10	06:36	11:13:00.5	+13:26:36	300	89	3.0	0 Calibration	2	
0101.Feige34	180	06:38	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	
0102.COMP	10	06:41	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	
0103.Feige34	180	06:43	10:39:36.7	+43:06:09	300	89	5.0	#56 Spectropho	2	5 arcsec slit
0104.COMP	5	06:46	10:39:36.7	+43:06:09	300	89	5.0	0 Calibration	2	
0105.Feige34	180	06:47	10:39:36.7	+43:06:09	300	89	5.0	#56 Spectropho	2	
0106.FLAT	5	06:50	10:39:36.7	+43:06:09	300	89	5.0	0 Calibration	2	x5
0107-0110.FLAT	5	06:51	10:39:36.7	+43:06:09	300	89	5.0	0 Calibration	2	
0111.V419Hya	30	06:54	10:43:28.3	-29:03:51	300	89	3.0	#215 Grid of W	2	
0112.COMP	10	06:55	10:43:28.3	-29:03:51	300	89	3.0	0 Calibration	2	
0113.NGC3664	1800	06:59	11:24:24.3	+03:19:31	300	43	3.0	#199 Optical n	2	
0114.COMP	10	07:29	11:24:24.3	+03:19:31	300	43	3.0	0 Calibration	2	
0115.NGC3664	1800	07:30	11:24:24.3	+03:19:31	300	43	3.0	#199 Optical n	2	
0116.COMP	10	08:00	11:24:24.3	+03:19:31	300	43	3.0	0 Calibration	2	
0117.NGC3664	1800	08:01	11:24:24.3	+03:19:31	300	43	3.0	#199 Optical n	2	
0118.COMP	10	08:31	11:24:24.3	+03:19:31	300	42	3.0	0 Calibration	2	
0119.UGC6469	600	08:34	11:28:17.7	+02:39:14	300	110	3.0	#199 Optical n	2	
0120.UGC6469	600	08:44	11:28:17.7	+02:39:14	300	110	3.0	#199 Optical n	2	

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0121.COMP	10	08:54	11:28:17.7	+02:39:14	300	110	3.0	0 Calibration	2	
0122.UGC6469	600	08:55	11:28:17.7	+02:39:14	300	110	3.0	#199 Optical n	2	
0123.IC732_NED01	1500	09:09	11:45:59.5	+20:26:50	300	1	3.0	#199 Optical n	2	
0124.COMP	10	09:34	11:45:59.5	+20:26:50	300	0	3.0	0 Calibration	2	
0125.IC732_NED01	1500	09:35	11:45:59.5	+20:26:50	300	0	3.0	#199 Optical n	2	
0126.COMP	10	10:00	11:45:59.5	+20:26:50	300	0	3.0	0 Calibration	2	
0127.IC732_NED01	1500	10:01	11:45:59.5	+20:26:50	300	0	3.0	#199 Optical n	2	
0128.COMP	10	10:26	11:45:59.5	+20:26:50	300	-1	3.0	0 Calibration	2	
0129.sn2013aj	900	10:29	13:54:00.7	-07:55:44	300	89	3.0	#2 SN Observat	2	
0130.COMP	10	10:44	13:54:00.7	-07:55:44	300	89	3.0	0 Calibration	2	
0131.sn2013ab	1200	10:46	14:32:44.5	+09:53:12	300	89	3.0	#2 SN Observat	2	
0132.COMP	10	11:06	14:32:44.5	+09:53:12	300	89	3.0	0 Calibration	2	
0133.RWHya	2	11:08	13:34:18.0	-25:22:51	300	89	3.0	#12 Symbiotic	2	
0134.RWHya	10	11:08	13:34:18.0	-25:22:51	300	89	3.0	#12 Symbiotic	2	
0135.RWHya	20	11:09	13:34:18.0	-25:22:51	300	89	3.0	#12 Symbiotic	2	
0136.COMP	10	11:09	13:34:18.0	-25:22:51	300	89	3.0	0 Calibration	2	
0137.TXCVn	10	11:12	12:44:42.0	+36:45:48	300	89	3.0	#12 Symbiotic	2	
0138.TXCVn	30	11:12	12:44:42.0	+36:45:48	300	89	3.0	#12 Symbiotic	2	
0139.COMP	10	11:13	12:44:42.0	+36:45:48	300	89	3.0	0 Calibration	2	
0140.TCrB	15	11:15	15:59:30.0	+25:55:12	300	89	3.0	#12 Symbiotic	2	

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0141.TCrB	60	11:15	15:59:30.0	+25:55:12	300	89	3.0	#12 Symbiotic	2	
0142.COMP	10	11:17	15:59:30.0	+25:55:12	300	89	3.0	0 Calibration	2	
0143.AGDra	2	11:19	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0144.AGDra	15	11:19	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0145.AGDra	60	11:20	16:01:41.0	+66:48:10	300	89	3.0	#12 Symbiotic	2	
0146.COMP	10	11:21	16:01:41.0	+66:48:10	300	89	3.0	0 Calibration	2	
0147.DracoC1	1200	11:23	17:19:58.0	+57:50:06	300	89	3.0	#12 Symbiotic	2	
0148.COMP	10	11:43	17:19:58.0	+57:50:06	300	90	3.0	0 Calibration	2	
0149.RSOph	10	11:45	17:50:13.0	-06:42:30	300	90	3.0	#12 Symbiotic	2	
0150.RSOph	60	11:46	17:50:13.0	-06:42:30	300	90	3.0	#12 Symbiotic	2	
0151.RSOph	150	11:47	17:50:13.0	-06:42:30	300	90	3.0	#12 Symbiotic	2	
0152.COMP	10	11:50	17:50:13.0	-06:42:30	300	90	3.0	0 Calibration	2	
0153.Hen1341	12	11:51	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0154.Hen1341	30	11:52	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0155.Hen1341	60	11:53	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0156.COMP	10	11:54	17:08:36.0	-17:26:30	300	90	3.0	0 Calibration	2	
0157.NGC5691	600	11:59	14:37:53.3	-00:23:56	300	110	3.0	#199 Optical n	2	
0158.NGC5691	600	12:09	14:37:53.3	-00:23:56	300	110	3.0	#199 Optical n	2	
0159.COMP	10	12:20	14:37:53.3	-00:23:56	300	110	3.0	0 Calibration	2	
0160.NGC5691	600	12:20	14:37:53.3	-00:23:56	300	109	3.0	#199 Optical n	2	

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0161.AS210	300	12:32	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0162.AS210	5	12:37	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0163.COMP	10	12:37	16:51:20.3	-26:00:33	300	90	3.0	0 Calibration	2	
0164.AS296	120	12:40	18:15:07.0	-00:18:52	300	90	3.0	#12 Symbiotic	2	
0165.AS296	30	12:42	18:15:07.0	-00:18:52	300	90	3.0	#12 Symbiotic	2	
0166.COMP	10	12:43	18:15:07.0	-00:18:52	300	90	3.0	0 Calibration	2	
0167.YYHer	60	12:44	18:14:34.0	+20:59:19	300	90	3.0	#12 Symbiotic	2	
0168.YYHer	10	12:46	18:14:34.0	+20:59:19	300	90	3.0	#12 Symbiotic	2	
0169.COMP	10	12:46	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	
0170.BIAS	0	12:47	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	x10
0171-0179.BIAS	0	12:49	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	
0180.BIAS	0	12:49	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	4	x10
0181-0189.BIAS	0	12:50	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	20:29	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	4	x10
0002-0010.BIAS	0	20:31	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	4	
0011.DARK	900	20:31	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	4	x7
0012-0017.DARK	900	22:21	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	4	
0018.BIAS	0	22:37	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	x10
0019-0027.BIAS	0	22:38	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	
0028.DARK	900	22:39	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	x7
0029-0034.DARK	900	00:11	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	
0035.FLAT	7	01:11	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	x15
0036-0049.FLAT	7	01:16	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	
0050.Hiltner600	90	02:22	06:45:13.4	+02:08:15	300	90	3.0	#56 Spectropho	2	photometric
0051.COMP	10	02:24	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0052.GJ1094	90	02:25	07:02:42.9	-06:47:57	300	90	3.0	#215 Grid of W	2	close to sat., doing another
0053.COMP	10	02:27	07:02:42.9	-06:47:57	300	90	3.0	0 Calibration	2	
0054.GJ1094	60	02:27	07:02:42.9	-06:47:57	300	90	3.0	#215 Grid of W	2	
0055.HD65430	30	02:30	07:59:33.9	+20:50:37	300	90	3.0	#215 Grid of W	2	
0056.COMP	10	02:31	07:59:33.9	+20:50:37	300	90	3.0	0 Calibration	2	
0057.GJ9260	90	02:32	08:18:10.7	+30:36:02	300	90	3.0	#215 Grid of W	2	
0058.COMP	10	02:34	08:18:10.7	+30:36:02	300	90	3.0	0 Calibration	2	
0059.LTT11959	45	02:35	07:01:38.5	+48:22:43	300	90	3.0	#215 Grid of W	2	



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0060.COMP	10	02:36	07:01:38.5	+48:22:43	300	90	3.0	0 Calibration	2	
0061.cvso-50873241	300	02:38	05:32:01.0	-01:59:02	300	90	3.0	#112 PMS Orion	2	
0062.COMP	10	02:44	05:32:01.0	-01:59:02	300	90	3.0	0 Calibration	2	
0063.cvso-50869203	1200	02:45	05:31:58.8	-02:52:10	300	90	3.0	#112 PMS Orion	2	
0064.COMP	10	03:05	05:31:58.8	-02:52:10	300	91	3.0	0 Calibration	2	
0065.cvso-50872939	600	03:06	05:32:00.4	-01:40:11	300	90	3.0	#112 PMS Orion	2	
0066.COMP	10	03:17	05:32:00.4	-01:40:11	300	90	3.0	0 Calibration	2	
0067.cvso-50875393	600	03:19	05:32:05.5	-01:50:30	300	90	3.0	#112 PMS Orion	2	
0068.COMP	10	03:30	05:32:05.5	-01:50:30	300	90	3.0	0 Calibration	2	
0069.lmwd034	780	03:31	07:45:11.6	+19:49:27	300	90	3.0	#178 Low Mass	2	
0070.COMP	10	03:44	07:45:11.6	+19:49:27	300	90	3.0	0 Calibration	2	
0071.Feige34	180	03:46	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0072.COMP	10	03:49	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0073.psn0807	900	03:52	08:07:06.7	-28:03:10	300	91	3.0	#2 SN Observat	2	
0074.COMP	10	04:07	08:07:06.7	-28:03:10	300	91	3.0	0 Calibration	2	
0075.lmwd034	990	04:12	07:45:11.6	+19:49:27	600	91	1.5	#178 Low Mass	4	6001
0076.COMP	10	04:29	07:45:11.6	+19:49:27	600	91	1.5	0 Calibration	4	
0077.lmwd034	990	04:30	07:45:11.6	+19:49:27	600	91	1.5	#178 Low Mass	4	
0078.COMP	10	04:47	07:45:11.6	+19:49:27	600	91	1.5	0 Calibration	4	
0079.lmwd034	990	04:47	07:45:11.6	+19:49:27	600	91	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0080.COMP	10	05:04	07:45:11.6	+19:49:27	600	91	1.5	0 Calibration	4	
0081.lmwd034	990	05:04	07:45:11.6	+19:49:27	600	91	1.5	#178 Low Mass	4	
0082.COMP	10	05:21	07:45:11.6	+19:49:27	600	91	1.5	0 Calibration	4	
0083.lmwd034	990	05:22	07:45:11.6	+19:49:27	600	91	1.5	#178 Low Mass	4	
0084.COMP	10	05:39	07:45:11.6	+19:49:27	600	90	1.5	0 Calibration	4	
0085.lmwd034	990	05:39	07:45:11.6	+19:49:27	600	90	1.5	#178 Low Mass	4	
0086.COMP	10	05:56	07:45:11.6	+19:49:27	600	90	1.5	0 Calibration	4	
0087.lmwd034	990	05:57	07:45:11.6	+19:49:27	600	90	1.5	#178 Low Mass	4	
0088.COMP	10	06:14	07:45:11.6	+19:49:27	600	90	1.5	0 Calibration	4	
0089.lmwd034	990	06:14	07:45:11.6	+19:49:27	600	90	1.5	#178 Low Mass	4	
0090.COMP	10	06:31	07:45:11.6	+19:49:27	600	90	1.5	0 Calibration	4	
0091.lmwd034	990	06:31	07:45:11.6	+19:49:27	600	90	1.5	#178 Low Mass	4	
0092.COMP	10	06:48	07:45:11.6	+19:49:27	600	90	1.5	0 Calibration	4	
0093.lmwd034	990	06:49	07:45:11.6	+19:49:27	600	90	1.5	#178 Low Mass	4	
0094.COMP	10	07:06	07:45:11.6	+19:49:27	600	90	1.5	0 Calibration	4	
0095.Feige34	180	07:07	10:39:36.7	+43:06:09	600	90	1.5	#56 Spectropho	4	
0096.COMP	10	07:10	10:39:36.7	+43:06:09	600	90	1.5	0 Calibration	4	
0097.hotwd098	1160	07:12	10:59:59.7	+78:37:40	600	90	1.5	#178 Low Mass	4	
0098.COMP	10	07:32	10:59:59.7	+78:37:40	600	90	1.5	0 Calibration	4	
0099.hotwd103	950	07:33	11:28:05.3	+59:19:58	600	90	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0100.COMP	10	07:49	11:28:05.3	+59:19:58	600	90	1.5	0 Calibration	4	
0101.hotwd100	1300	07:50	11:10:21.0	+45:18:02	600	90	1.5	#178 Low Mass	4	
0102.COMP	10	08:12	11:10:21.0	+45:18:02	600	90	1.5	0 Calibration	4	
0103.hotwd099	1210	08:14	11:02:02.5	-16:53:28	600	90	1.5	#178 Low Mass	4	
0104.COMP	10	08:35	11:02:02.5	-16:53:28	600	90	1.5	0 Calibration	4	
0105.hotwd104	1130	08:38	11:37:36.9	-05:23:17	600	90	1.5	#178 Low Mass	4	
0106.COMP	10	08:57	11:37:36.9	-05:23:17	600	90	1.5	0 Calibration	4	
0107.hotwd105	1020	08:59	11:55:59.8	+14:00:12	600	90	1.5	#178 Low Mass	4	
0108.COMP	10	09:16	11:55:59.8	+14:00:12	600	90	1.5	0 Calibration	4	
0109.hotwd106	1380	09:18	11:57:15.0	+25:46:17	600	90	1.5	#178 Low Mass	4	
0110.COMP	10	09:41	11:57:15.0	+25:46:17	600	91	1.5	0 Calibration	4	
0111.hotwd107	690	09:42	12:03:59.8	+10:59:38	600	91	1.5	#178 Low Mass	4	
0112.COMP	10	09:54	12:03:59.8	+10:59:38	600	90	1.5	0 Calibration	4	
0113.j1638	900	09:58	16:38:26.3	+35:00:12	600	90	1.5	#178 Low Mass	4	
0114.COMP	10	10:14	16:38:26.3	+35:00:12	600	90	1.5	0 Calibration	4	
0115.hotwd108	1140	10:15	12:41:11.0	+08:11:59	600	90	1.5	#178 Low Mass	4	
0116.COMP	10	10:35	12:41:11.0	+08:11:59	600	90	1.5	0 Calibration	4	
0117.hotwd109	600	10:36	12:46:08.0	-05:17:13	600	90	1.5	#178 Low Mass	4	
0118.COMP	10	10:46	12:46:08.0	-05:17:13	600	90	1.5	0 Calibration	4	
0119.hotwd111	1140	10:48	12:49:02.0	+12:16:13	600	90	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0120.COMP	10	11:08	12:49:02.0	+12:16:13	600	90	1.5	0 Calibration	4	
0121.hotwd110	1200	11:10	12:48:24.7	+66:39:29	600	90	1.5	#178 Low Mass	4	
0122.COMP	10	11:30	12:48:24.7	+66:39:29	600	90	1.5	0 Calibration	4	
0123.hotwd113	990	11:31	12:55:06.4	+60:51:52	600	90	1.5	#178 Low Mass	4	
0124.COMP	10	11:48	12:55:06.4	+60:51:52	600	90	1.5	0 Calibration	4	
0125.hotwd118	780	11:49	13:57:09.6	+33:48:03	600	90	1.5	#178 Low Mass	4	
0126.COMP	10	12:03	13:57:09.6	+33:48:03	600	90	1.5	0 Calibration	4	
0127.j1638	900	12:04	16:38:26.3	+35:00:12	600	90	1.5	#178 Low Mass	4	
0128.COMP	10	12:19	16:38:26.3	+35:00:12	600	90	1.5	0 Calibration	4	
0129.hotwd119	600	12:21	14:09:18.7	+22:15:29	600	90	1.5	#178 Low Mass	4	
0130.COMP	10	12:31	14:09:18.7	+22:15:29	600	90	1.5	0 Calibration	4	
0131.hotwd112	360	12:32	12:50:23.0	+17:22:17	600	91	1.5	#178 Low Mass	4	
0132.COMP	10	12:38	12:50:23.0	+17:22:17	600	91	1.5	0 Calibration	4	
0133.BDp332642	120	12:40	15:51:59.9	+32:56:54	600	91	1.5	#56 Spectropho	4	
0134.COMP	10	12:42	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	4	
0135.FLAT	12	12:43	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	4	x10
0136-0144.FLAT	12	12:46	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	4	
0145.BIAS	0	12:47	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	4	x10
0146-0154.BIAS	0	12:49	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	4	
0155-0164.DARK	900	15:20	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	4	

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<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0165-0174.DARK	900	17:53	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	22:46	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	2	x10
0002-0010.BIAS	0	22:48	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	2	
0011.DARK	900	22:48	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	2	x9
0012-0019.DARK	900	00:51	15:51:59.9	+32:56:54	600	91	1.5	0 Calibration	2	
0020.COMP	5	01:10	15:51:59.9	+32:56:54	300	91	3.0	0 Calibration	2	300 line
0021.COMP	5	01:12	15:51:59.9	+32:56:54	300	91	3.0	0 Calibration	2	setting tilt
0022.fastfoc	5	01:14	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	4	x7 foc=1350
0023.fastfoc	5	01:15	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	4	
0024.fastfoc	5	01:15	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	4	
0025.fastfoc	5	01:15	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	4	
0026.fastfoc	5	01:16	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	4	
0027.fastfoc	5	01:16	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	4	
0028.fastfoc	5	01:16	15:51:59.9	+32:56:54	300	91	3.0	#56 Spectropho	4	
0030.FLAT	7	01:23	15:51:59.9	+32:56:54	300	91	3.0	0 Calibration	2	x15
0031-0044.FLAT	7	01:28	15:51:59.9	+32:56:54	300	91	3.0	0 Calibration	2	
0045.Hiltner600	90	02:23	06:45:13.4	+02:08:15	300	91	3.0	#56 Spectropho	2	photometric
0046.COMP	10	02:25	06:45:13.4	+02:08:15	300	91	3.0	0 Calibration	2	
0047.LkCa3	300	02:26	04:14:47.9	+27:52:34	300	91	3.0	#215 Grid of W	2	
0048.COMP	10	02:31	04:14:47.9	+27:52:34	300	91	3.0	0 Calibration	2	
0049.V827Tau	600	02:32	04:32:14.6	+18:20:14	300	90	3.0	#215 Grid of W	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0050.COMP	10	02:43	04:32:14.6	+18:20:14	300	90	3.0	0 Calibration	2	
0051.V826Tau	600	02:44	04:32:15.8	+18:01:38	300	91	3.0	#215 Grid of W	2	
0052.COMP	10	02:54	04:32:15.8	+18:01:38	300	91	3.0	0 Calibration	2	
0053.LkCa4	600	02:55	04:16:28.1	+28:07:35	300	91	3.0	#215 Grid of W	2	
0054.COMP	10	03:05	04:16:28.1	+28:07:35	300	90	3.0	0 Calibration	2	
0055.cvso-50871410	1200	03:06	05:32:03.4	-02:31:27	300	90	3.0	#112 PMS Orion	2	
0056.COMP	10	03:27	05:32:03.4	-02:31:27	300	90	3.0	0 Calibration	2	
0057.cvso-50877656	1200	03:28	05:32:10.1	-01:51:47	300	90	3.0	#112 PMS Orion	2	
0058.COMP	10	03:48	05:32:10.1	-01:51:47	300	90	3.0	0 Calibration	2	
0059.cvso-50876071	360	03:50	05:32:06.9	-02:09:23	300	90	3.0	#112 PMS Orion	2	
0060.COMP	10	03:56	05:32:06.9	-02:09:23	300	90	3.0	0 Calibration	2	
0061.cvso-50876068	720	03:57	05:32:13.3	-02:46:48	300	90	3.0	#112 PMS Orion	2	
0062.COMP	10	04:09	05:32:13.3	-02:46:48	300	91	3.0	0 Calibration	2	
0063.cvso-50871265	300	04:10	05:32:04.6	-00:04:37	300	90	3.0	#112 PMS Orion	2	
0064.COMP	10	04:16	05:32:10.2	-00:37:12	300	90	3.0	0 Calibration	2	
0065.cvso-50877691	270	04:17	05:32:10.2	-00:37:12	300	90	3.0	#112 PMS Orion	2	
0066.COMP	10	04:22	05:32:10.2	-00:37:12	300	91	3.0	0 Calibration	2	
0067.sn2013ak	900	04:23	08:07:06.7	-28:03:10	300	90	3.0	#2 SN Observat	2	
0068.COMP	10	04:39	08:07:06.7	-28:03:10	300	90	3.0	0 Calibration	2	
0069.sn2012ht	1800	04:41	10:53:22.8	+16:46:35	300	90	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0070.COMP	10	05:12	10:53:22.8	+16:46:35	300	90	3.0	0 Calibration	2	
0071.Feige34	180	05:17	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0072.COMP	10	05:21	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0073.NGC4150	600	05:24	12:10:33.7	+30:24:06	300	-29	3.0	#199 Optical n	2	
0074.COMP	10	05:35	12:10:33.7	+30:24:06	300	-29	3.0	0 Calibration	2	
0075.NGC4150	600	05:35	12:10:33.7	+30:24:06	300	-29	3.0	#199 Optical n	2	
0076.NGC4150	600	05:45	12:10:33.7	+30:24:06	300	-29	3.0	#199 Optical n	2	
0077.NGC4064	600	05:58	12:04:11.4	+18:26:27	300	-16	3.0	#199 Optical n	2	
0078.COMP	10	06:08	12:04:11.4	+18:26:27	300	-16	3.0	0 Calibration	2	
0079.NGC4064	600	06:09	12:04:11.4	+18:26:27	300	-16	3.0	#199 Optical n	2	
0080.NGC4064	600	06:19	12:04:11.4	+18:26:27	300	-15	3.0	#199 Optical n	2	
0081.NGC4116	1800	06:32	12:07:36.8	+02:41:32	300	-35	3.0	#199 Optical n	2	
0082.COMP	10	07:02	12:07:36.8	+02:41:32	300	-35	3.0	0 Calibration	2	
0083.NGC4116	1800	07:02	12:07:36.8	+02:41:32	300	-34	3.0	#199 Optical n	2	
0084.COMP	10	07:33	12:07:36.8	+02:41:32	300	-34	3.0	0 Calibration	2	
0085.NGC4116	1800	07:33	12:07:36.8	+02:41:32	300	-35	3.0	#199 Optical n	2	
0086.COMP	10	08:04	12:07:36.8	+02:41:32	300	-35	3.0	0 Calibration	2	
0087.V419Hya	30	08:06	10:43:28.3	-29:03:51	300	90	3.0	#215 Grid of W	2	
0088.COMP	10	08:07	10:43:28.3	-29:03:51	300	90	3.0	0 Calibration	2	
0089.dC144514p1211	1800	08:10	14:45:14.7	+12:11:52	300	90	3.0	#99 Director	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0090.COMP	10	08:40	14:45:14.7	+12:11:52	300	89	3.0	0 Calibration	2	
0091.dC144945p0126	1200	08:41	14:49:45.4	+01:26:56	300	89	3.0	#99 Director	2	
0092.COMP	10	09:01	14:49:45.4	+01:26:56	300	89	3.0	0 Calibration	2	
0093.sn2013aj	900	09:03	13:54:00.7	-07:55:44	300	89	3.0	#2 SN Observat	2	
0094.COMP	10	09:18	13:54:00.7	-07:55:44	300	90	3.0	0 Calibration	2	
0095.psn1424m0312	1500	09:20	14:24:42.6	-03:12:31	300	90	3.0	#2 SN Observat	2	
0096.COMP	10	09:45	14:24:42.6	-03:12:31	300	90	3.0	0 Calibration	2	
0097.IC3476	1800	09:48	12:32:41.6	+14:03:02	300	28	3.0	#199 Optical n	2	
0098.COMP	10	10:18	12:32:41.6	+14:03:02	300	28	3.0	0 Calibration	2	
0099.IC3476	1800	10:19	12:32:41.6	+14:03:02	300	28	3.0	#199 Optical n	2	
0100.COMP	10	10:49	12:32:41.6	+14:03:02	300	28	3.0	0 Calibration	2	
0101.IC3476	1800	10:50	12:32:41.6	+14:03:02	300	28	3.0	#199 Optical n	2	
0102.COMP	10	11:20	12:32:41.6	+14:03:02	300	28	3.0	0 Calibration	2	
0103.dC144514p1211	1800	11:22	14:45:14.7	+12:11:52	300	90	3.0	#99 Director	2	
0104.COMP	10	11:53	14:45:14.7	+12:11:52	300	90	3.0	0 Calibration	2	
0105.dC144945p0126	1200	11:54	14:49:45.4	+01:26:56	300	90	3.0	#99 Director	2	
0106.COMP	10	12:14	14:49:45.4	+01:26:56	300	91	3.0	0 Calibration	2	
0107.AS338	600	12:16	19:03:47.0	+16:26:17	300	91	3.0	#12 Symbiotic	2	
0108.AS338	90	12:26	19:03:47.0	+16:26:17	300	91	3.0	#12 Symbiotic	2	
0109.COMP	10	12:28	19:03:47.0	+16:26:17	300	88	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0110.AS289	420	12:29	18:12:22.0	-11:40:08	300	88	3.0	#12 Symbiotic	2	
0111.AS289	15	12:37	18:12:22.0	-11:40:08	300	88	3.0	#12 Symbiotic	2	
0112.COMP	10	12:37	18:12:22.0	-11:40:08	300	89	3.0	0 Calibration	2	
0113.V443Her	90	12:39	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0114.V443Her	45	12:40	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0115.V443Her	5	12:41	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0116.COMP	10	12:42	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	
0117.BDp262606	60	12:43	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0118.COMP	10	12:45	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0119.BIAS	0	12:46	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	x10
0120-0128.BIAS	0	12:47	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0129-0138.DARK	900	15:20	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	
0139-0148.DARK	900	17:53	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	22:36	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	x9
0002-0009.BIAS	0	22:37	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	
0010.DARK	900	22:38	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	x5
0011-0014.DARK	900	23:39	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	
0015.DARK	900	23:54	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	x5
0016-0019.DARK	900	00:55	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0020.BIAS	0	01:24	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	x10
0021-0029.BIAS	0	01:26	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0030.FLAT	15	01:40	14:49:02.4	+25:42:09	1200	89	2.0	0 Calibration	2	x10 1200 1/mm
0031-0039.FLAT	15	01:45	14:49:02.4	+25:42:09	1200	89	2.0	0 Calibration	2	
0040.XPer	4	02:23	03:55:23.0	+31:02:45	1200	89	2.0	#176 Be/X-ray	2	
0041.COMP	10	02:23	03:55:23.0	+31:02:45	1200	89	2.0	0 Calibration	2	
0042.A0535p262	60	02:25	05:38:54.5	+26:18:57	1200	89	2.0	#176 Be/X-ray	2	
0043.COMP	10	02:26	05:38:54.5	+26:18:57	1200	89	2.0	0 Calibration	2	
0044.HD19445	30	02:28	03:08:26.3	+26:20:29	1200	89	2.0	#176 Be/X-ray	2	
0045.COMP	10	02:29	03:08:26.3	+26:20:29	1200	89	2.0	0 Calibration	2	
0046.RXJ04409p4431	300	02:30	04:41:00.6	+44:31:50	1200	89	2.0	#176 Be/X-ray	2	
0047.COMP	10	02:35	04:41:00.6	+44:31:50	1200	90	2.0	0 Calibration	2	
0048.LSIp61303	60	02:37	02:40:31.6	+61:13:46	1200	90	2.0	#176 Be/X-ray	2	
0049.COMP	10	02:38	02:40:31.6	+61:13:46	1200	90	2.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0050.V0332p53	1800	02:40	03:34:59.8	+53:10:24	1200	90	2.0	#176 Be/X-ray	2	
0051.COMP	10	03:10	03:34:59.8	+53:10:24	1200	90	2.0	0 Calibration	2	
0052.MXB0656-072	900	03:12	06:58:17.2	-07:12:35	1200	90	2.0	#176 Be/X-ray	2	
0053.COMP	10	03:28	06:58:17.2	-07:12:35	1200	90	2.0	0 Calibration	2	
0054.IGRJ06074p2205	600	03:29	06:07:26.6	+22:05:48	1200	90	2.0	#176 Be/X-ray	2	
0055.COMP	10	03:40	06:07:26.6	+22:05:48	1200	90	2.0	0 Calibration	2	
0056.COMP	5	03:44	07:55:00.0	+31:00:00	300	90	3.0	0 Calibration	4	grating change
0057.cvso-50876966	840	03:47	05:32:15.1	-05:35:00	300	90	3.0	#112 PMS Orion	2	
0058.COMP	10	04:01	05:32:15.1	-05:35:00	300	90	3.0	0 Calibration	2	
0059.cvso-50876821	480	04:02	05:32:14.9	-05:45:23	300	90	3.0	#112 PMS Orion	2	
0060.COMP	10	04:11	05:32:14.9	-05:45:23	300	90	3.0	0 Calibration	2	
0061.cvso-50879371	720	04:12	05:32:13.9	-01:59:29	300	89	3.0	#112 PMS Orion	2	
0062.COMP	10	04:24	05:32:13.9	-01:59:29	300	89	3.0	0 Calibration	2	
0063.sn2013ak	900	04:25	08:07:06.7	-28:03:10	300	89	3.0	#2 SN Observat	2	
0064.COMP	10	04:41	08:07:06.7	-28:03:10	300	89	3.0	0 Calibration	2	
0065.HD84937	30	04:42	09:48:56.1	+13:44:39	300	89	3.0	#56 Spectropho	2	
0066.COMP	10	04:43	09:48:56.1	+13:44:39	300	89	3.0	0 Calibration	2	
0067.Feige34	180	04:45	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	
0068.COMP	10	04:49	10:39:36.7	+43:06:09	300	85	3.0	0 Calibration	2	
0069.bcg042	1200	04:50	11:39:49.6	+55:00:30	300	85	3.0	#210 Brightest	2	

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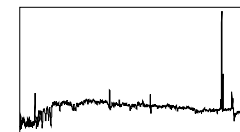
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0070.COMP	10	05:11	11:39:49.6	+55:00:30	300	89	3.0	0 Calibration	2	
0071.FLAT	7	05:11	11:39:49.6	+55:00:30	300	89	3.0	0 Calibration	2	x15 300 l/mm
0072-0085.FLAT	7	05:16	11:39:49.6	+55:00:30	300	89	3.0	0 Calibration	2	
0086.NGC4861	1800	05:21	12:59:01.6	+34:51:22	300	20	3.0	#199 Optical n	2	
0087.COMP	10	05:52	12:59:01.6	+34:51:22	300	21	3.0	0 Calibration	2	
0088.NGC4861	1800	05:52	12:59:01.6	+34:51:22	300	21	3.0	#199 Optical n	2	
0089.COMP	10	06:23	12:59:01.6	+34:51:22	300	20	3.0	0 Calibration	2	
0090.NGC4861	1800	06:23	12:59:01.6	+34:51:22	300	20	3.0	#199 Optical n	2	
0091.COMP	10	06:54	12:59:01.6	+34:51:22	300	20	3.0	0 Calibration	2	
0092.IC910	600	06:55	13:41:07.9	+23:16:55	300	58	3.0	#199 Optical n	2	
0093.COMP	10	07:06	13:41:07.9	+23:16:55	300	57	3.0	0 Calibration	2	
0094.IC910	600	07:06	13:41:07.9	+23:16:55	300	57	3.0	#199 Optical n	2	
0095.IC910	600	07:16	13:41:07.9	+23:16:55	300	58	3.0	#199 Optical n	2	
0096.V419Hya	30	07:29	10:43:28.3	-29:03:51	300	90	3.0	#215 Grid of W	2	
0097.COMP	10	07:29	10:43:28.3	-29:03:51	300	90	3.0	0 Calibration	2	
0098.Feige34	180	07:34	10:39:36.7	+43:06:09	600	90	1.5	#56 Spectropho	4	grating change
0099.COMP	10	07:37	10:39:36.7	+43:06:09	600	90	1.5	0 Calibration	4	
0100.hotwd101	900	07:39	11:17:32.7	+32:58:03	600	89	1.5	#178 Low Mass	4	
0101.COMP	10	07:55	11:17:32.7	+32:58:03	600	89	1.5	0 Calibration	4	
0102.hotwd102	450	07:56	11:26:30.0	+21:21:45	600	90	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0103.COMP	10	08:04	11:26:30.0	+21:21:45	600	90	1.5	0 Calibration	4	
0104.bcand869	840	08:05	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0105.COMP	10	08:20	13:35:52.0	+12:37:09	600	90	1.5	0 Calibration	4	
0106.bcand869	840	08:20	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0107.j1638	900	08:35	16:38:26.3	+35:00:12	600	90	1.5	#178 Low Mass	4	
0110.COMP	10	08:56	16:38:26.3	+35:00:12	600	89	1.5	0 Calibration	2	had to restart ccd server
0111.bcand869	840	08:58	13:35:52.0	+12:37:09	600	89	1.5	#178 Low Mass	2	forgot to change binning
0112.COMP	10	09:12	13:35:52.0	+12:37:09	600	89	1.5	0 Calibration	2	
0113.bcand869	840	09:14	13:35:52.0	+12:37:09	600	89	1.5	#178 Low Mass	4	
0114.bcand869	840	09:29	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0115.COMP	10	09:43	13:35:52.0	+12:37:09	600	90	1.5	0 Calibration	4	
0116.bcand869	840	09:44	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0117.j1638	900	09:59	16:38:26.3	+35:00:12	600	90	1.5	#178 Low Mass	4	
0118.COMP	10	10:14	16:38:26.3	+35:00:12	600	90	1.5	0 Calibration	4	
0119.bcand869	840	10:16	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0120.COMP	10	10:30	13:35:52.0	+12:37:09	600	90	1.5	0 Calibration	4	
0121.bcand869	840	10:31	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0122.bcand869	840	10:45	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0123.COMP	10	11:00	13:35:52.0	+12:37:09	600	90	1.5	0 Calibration	4	
0124.j1638	900	11:02	16:38:26.3	+35:00:12	600	88	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0125.COMP	10	11:17	16:38:26.3	+35:00:12	600	88	1.5	0 Calibration	4	
0126.bcand869	840	11:18	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0127.COMP	10	11:33	13:35:52.0	+12:37:09	600	90	1.5	0 Calibration	4	
0128.bcand869	840	11:33	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0129.bcand869	840	11:47	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0130.COMP	10	12:02	13:35:52.0	+12:37:09	600	90	1.5	0 Calibration	4	
0131.bcand869	840	12:02	13:35:52.0	+12:37:09	600	90	1.5	#178 Low Mass	4	
0132.j1638	900	12:17	16:38:26.3	+35:00:12	600	89	1.5	#178 Low Mass	4	
0133.COMP	10	12:33	16:38:26.3	+35:00:12	600	89	1.5	0 Calibration	4	
0134.hotwd123	571	12:34	14:24:51.1	+43:09:25	600	89	1.5	#178 Low Mass	4	twilight
0135.COMP	10	12:44	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	4	
0136.FLAT	12	12:45	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	4	x10
0137-0145.FLAT	12	12:48	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	4	
0146.BIAS	0	12:49	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	4	x10
0147-0155.BIAS	0	12:50	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	4	
0156.FLAT	24	12:51	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	2	x5
0157-0160.FLAT	24	12:53	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	2	
0161-0170.DARK	900	15:16	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	4	
0171-0180.DARK	900	17:49	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	21:43	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	2	x9
0002-0009.BIAS	0	21:45	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	2	
0010.DARK	900	21:47	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	2	x10
0011-0019.DARK	900	00:05	14:24:51.1	+43:09:25	600	90	1.5	0 Calibration	2	
0020.COMP	5	00:43	14:24:51.1	+43:09:25	300	90	3.0	0 Calibration	4	300 l/mm grating
0021.COMP	5	00:45	14:24:51.1	+43:09:25	300	90	3.0	0 Calibration	4	tilt set
0022.FLAT	7	00:46	14:24:51.1	+43:09:25	300	90	3.0	0 Calibration	2	x15
0023-0036.FLAT	7	00:51	14:24:51.1	+43:09:25	300	90	3.0	0 Calibration	2	
0037.Hiltner600	120	02:31	06:45:13.4	+02:08:15	300	90	3.0	#56 Spectropho	2	cloudy, non-photometric
0038.COMP	10	02:33	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0039.LkCa3	600	02:46	04:14:47.9	+27:52:34	300	90	3.0	#215 Grid of W	2	
0040.COMP	10	02:56	04:14:47.9	+27:52:34	300	90	3.0	0 Calibration	2	
0041.V827Tau	1200	02:57	04:32:14.5	+18:20:14	300	89	3.0	#215 Grid of W	2	lost tracking due to cloud
0042.COMP	10	03:17	04:32:14.5	+18:20:14	300	89	3.0	0 Calibration	2	
0043.V826Tau	1200	03:18	04:32:15.8	+18:01:38	300	89	3.0	#215 Grid of W	2	
0044.COMP	10	03:39	04:32:15.8	+18:01:38	300	89	3.0	0 Calibration	2	
0045.LkCa4	1200	03:41	04:16:28.1	+28:07:35	300	90	3.0	#215 Grid of W	2	heavy clouds
0046.COMP	10	04:01	04:16:28.1	+28:07:35	300	90	3.0	0 Calibration	2	
0047.sn2013ak	1800	04:05	08:07:06.7	-28:03:10	300	90	3.0	#2 SN Observat	2	
0048.COMP	10	04:36	08:07:06.7	-28:03:10	300	90	3.0	0 Calibration	2	pausing for clouds



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0049.Feige34	360	04:46	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	cloudy
0050.COMP	10	04:53	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0051.NGC5001	1200	06:42	13:09:33.1	+53:29:39	300	-29	3.0	#199 Optical n	2	clearing
0052.COMP	10	07:03	13:09:33.1	+53:29:39	300	-29	3.0	0 Calibration	2	
0053.NGC5001	1200	07:03	13:09:33.1	+53:29:39	300	-27	3.0	#199 Optical n	2	
0054.COMP	10	07:24	13:09:33.1	+53:29:39	300	-29	3.0	0 Calibration	2	
0055.NGC5001	1200	07:24	13:09:33.1	+53:29:39	300	-29	3.0	#199 Optical n	2	
0056.COMP	10	07:45	13:09:33.1	+53:29:39	300	-29	3.0	0 Calibration	2	
0057.dC144514p1211	1800	07:51	14:45:14.7	+12:11:52	300	90	3.0	#99 Director	2	
0058.COMP	10	08:21	14:45:14.7	+12:11:52	300	90	3.0	0 Calibration	2	
0059.dC144945p0126	1500	08:48	14:49:45.4	+01:26:56	300	89	3.0	#99 Director	2	clouds moving back in
0060.COMP	10	09:13	14:49:45.4	+01:26:56	300	89	3.0	0 Calibration	2	
0061.sn2013aj	1500	09:14	13:54:00.7	-07:55:44	300	90	3.0	#2 SN Observat	2	
0062.COMP	10	09:40	13:54:00.7	-07:55:44	300	90	3.0	0 Calibration	2	
0063.12504917-2301490	1200	09:41	12:50:49.2	-23:01:49	300	90	3.0	#141 2Mass Red	2	clearing out
0064.COMP	10	10:02	12:50:49.2	-23:01:49	300	90	3.0	0 Calibration	2	
0065.UGC10273_NED01	1500	10:08	16:12:44.7	+28:17:10	300	-25	3.0	#199 Optical n	2	
0066.COMP	10	10:33	16:12:44.7	+28:17:10	300	-26	3.0	0 Calibration	2	
0067.UGC10273_NED01	1500	10:34	16:12:44.7	+28:17:10	300	-26	3.0	#199 Optical n	2	
0068.COMP	10	10:59	16:12:44.7	+28:17:10	300	-26	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0069.UGC10273_NED01	1500	11:00	16:12:44.7	+28:17:10	300	-26	3.0	#199 Optical n	2	
0070.COMP	10	11:25	16:12:44.7	+28:17:10	300	-26	3.0	0 Calibration	2	
0071.dC144514p1211	1800	11:27	14:45:14.7	+12:11:52	300	90	3.0	#99 Director	2	
0072.COMP	10	11:58	14:45:14.7	+12:11:52	300	90	3.0	0 Calibration	2	
0073.dC144945p0126	1200	11:59	14:49:45.4	+01:26:56	300	90	3.0	#99 Director	2	
0074.COMP	10	12:19	14:49:45.4	+01:26:56	300	90	3.0	0 Calibration	2	
0075.BDp262606	60	12:21	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	clear and photometric
0076.COMP	10	12:22	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0077.BDp332642	120	12:23	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0078.COMP	10	12:26	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0079.N5866	180	12:27	15:06:29.5	+55:45:48	300	90	3.0	#57 Velocity S	2	
0080.COMP	10	12:30	15:06:29.5	+55:45:48	300	90	3.0	0 Calibration	2	
0081.BIAS	0	12:31	15:06:29.5	+55:45:48	300	90	3.0	0 Calibration	2	x10
0082-0090.BIAS	0	12:33	15:06:29.5	+55:45:48	300	90	3.0	0 Calibration	2	
0091-0100.DARK	900	15:13	15:06:29.5	+55:45:48	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	02:14	05:27:39.6	+31:30:00	300	87	3.0	0 Calibration	4	
0006-0015.BIAS	0	02:32	05:27:39.6	+31:30:00	300	87	3.0	0 Calibration	4	
0016-0035.FLAT	7	02:38	05:27:39.6	+31:30:00	300	87	3.0	0 Calibration	2	
0036-0045.BIAS	0	02:40	05:27:39.6	+31:30:00	300	87	3.0	0 Calibration	2	
0046.G191B2B	360	02:43	05:05:30.6	+52:49:52	300	87	3.0	#56 Spectropho	2	
0047.COMP	10	02:49	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0048.cvso-50877730	480	02:53	05:32:16.7	-05:57:50	300	90	3.0	#112 PMS Orion	2	
0049.COMP	10	03:01	05:32:16.7	-05:57:50	300	89	3.0	0 Calibration	2	
0050.cvso-50877777	720	03:03	05:32:16.8	-05:31:15	300	89	3.0	#112 PMS Orion	2	
0051.COMP	10	03:16	05:32:16.8	-05:31:15	300	89	3.0	0 Calibration	2	
0052.cvso-50877515	1020	03:17	05:32:17.8	-00:15:08	300	89	3.0	#112 PMS Orion	2	
0053.COMP	10	03:35	05:32:17.8	-00:15:08	300	89	3.0	0 Calibration	2	
0054.cvso-50878630	1080	03:36	05:32:20.1	-04:29:59	300	89	3.0	#112 PMS Orion	2	
0055.COMP	10	03:55	05:32:20.1	-04:29:59	300	90	3.0	0 Calibration	2	
0056.cvso-50882720	600	03:57	05:32:20.8	-02:26:34	300	90	3.0	#112 PMS Orion	2	
0057.COMP	10	04:08	05:32:20.8	-02:26:34	300	90	3.0	0 Calibration	2	
0058.sn2013ak	1200	04:11	08:07:06.7	-28:03:10	300	90	3.0	#2 SN Observat	2	
0059.COMP	10	04:31	08:07:06.7	-28:03:10	300	90	3.0	0 Calibration	2	
0060.cvso-50879968	420	04:35	05:32:23.0	-00:29:32	300	90	3.0	#112 PMS Orion	2	
0061.COMP	10	04:43	05:32:23.0	-00:29:32	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0062.07231000+0246223	600	04:46	07:23:10.0	+02:46:22	300	89	3.0	#141 2Mass Red	2	
0063.COMP	10	04:57	07:23:10.0	+02:46:22	300	90	3.0	0 Calibration	2	
0064.07464588-1041200	720	04:59	07:46:45.9	-10:41:20	300	90	3.0	#141 2Mass Red	2	
0065.COMP	10	05:11	07:46:45.9	-10:41:20	300	89	3.0	0 Calibration	2	
0066.07475774-1528425	900	05:13	07:47:57.7	-15:28:43	300	89	3.0	#141 2Mass Red	2	
0067.COMP	10	05:29	07:47:57.7	-15:28:43	300	90	3.0	0 Calibration	2	
0068.07480882-1430025	720	05:32	07:48:08.8	-14:30:03	300	90	3.0	#141 2Mass Red	2	
0069.COMP	10	05:44	07:48:08.8	-14:30:03	300	90	3.0	0 Calibration	2	
0070.07481984-1339438	1200	05:46	07:48:19.8	-13:39:44	300	90	3.0	#141 2Mass Red	2	
0071.COMP	10	06:07	07:48:19.8	-13:39:44	300	90	3.0	0 Calibration	2	
0072.07500033-1451582	600	06:08	07:50:00.3	-14:51:58	300	90	3.0	#141 2Mass Red	2	
0073.COMP	10	06:19	07:50:00.3	-14:51:58	300	90	3.0	0 Calibration	2	
0074.07552442-1115591	720	06:20	07:55:24.4	-11:15:59	300	90	3.0	#141 2Mass Red	2	
0075.COMP	10	06:33	07:55:24.4	-11:15:59	300	90	3.0	0 Calibration	2	
0076.HD84937	20	06:35	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0077.COMP	10	06:36	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0078.Feige34	150	06:38	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0079.COMP	10	06:41	10:39:36.7	+43:06:09	300	88	3.0	0 Calibration	2	
0080.N3377	180	06:43	10:47:42.4	+13:59:08	300	88	3.0	#57 Velocity S	2	
0081.COMP	10	06:51	10:47:42.4	+13:59:08	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0082.NGC4234	1800	06:53	12:17:09.1	+03:40:59	300	89	3.0	#199 Optical n	2	
0083.NGC4234	1800	07:23	12:17:09.1	+03:40:59	300	89	3.0	#199 Optical n	2	
0084.NGC4234	1800	07:53	12:17:09.1	+03:40:59	300	89	3.0	#199 Optical n	2	
0085.COMP	10	08:24	12:17:09.1	+03:40:59	300	89	3.0	0 Calibration	2	
0086.lmwd542	1440	08:31	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0087.COMP	10	08:55	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0088.lmwd542	1440	08:56	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0089.COMP	10	09:23	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0090.lmwd542	1440	09:23	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0091.COMP	10	09:48	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0092.lmwd542	1440	09:48	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0093.COMP	10	10:13	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0094.lmwd542	1440	10:14	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0095.COMP	10	10:38	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0096.lmwd542	1440	10:39	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0097.COMP	10	11:03	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0098.lmwd542	1440	11:04	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0099.COMP	10	11:28	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0100.lmwd542	1440	11:29	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0101.COMP	10	11:54	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	

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<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0102.lmwd542	1440	11:55	14:06:31.0	+34:38:42	600	89	1.5	#178 Low Mass	4	
0103.COMP	10	12:19	14:06:31.0	+34:38:42	600	89	1.5	0 Calibration	4	
0104.BDp332642	150	12:21	15:51:59.9	+32:56:54	600	89	1.5	#178 Low Mass	4	
0105.COMP	10	12:24	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	
0106.hotwd145	990	12:26	15:58:27.2	+20:31:35	600	89	1.5	#178 Low Mass	4	
0107.COMP	10	12:43	15:58:27.2	+20:31:35	600	90	1.5	0 Calibration	4	
0108-0117.BIAS	0	12:48	15:58:27.2	+20:31:35	600	90	1.5	0 Calibration	4	
0118-0127.FLAT	12	12:53	15:58:27.2	+20:31:35	600	90	1.5	0 Calibration	4	
0128-0137.BIAS	0	12:56	15:58:27.2	+20:31:35	600	90	1.5	0 Calibration	2	
0138-0147.DARK	900	15:17	15:58:27.2	+20:31:35	600	90	1.5	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:29	15:58:27.2	+20:31:35	600	90	1.5	0 Calibration	4	
0011-0020.BIAS	0	01:54	15:58:27.2	+20:31:35	300	90	3.0	0 Calibration	4	
0021-0040.FLAT	7	02:02	15:58:27.2	+20:31:35	300	90	3.0	0 Calibration	2	
0041-0050.BIAS	0	02:05	15:58:27.2	+20:31:35	300	90	3.0	0 Calibration	2	
0051.G191B2B	300	02:44	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	
0052.COMP	10	02:49	05:05:30.6	+52:49:52	300	87	3.0	0 Calibration	2	
0053.Hiltner600	150	02:54	06:45:13.4	+02:08:15	300	90	3.0	#56 Spectropho	2	
0054.COMP	10	02:57	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0055.cvso-50879968	720	02:59	05:32:23.0	-00:29:32	300	90	3.0	#112 PMS Orion	2	
0056.COMP	10	03:11	05:32:23.0	-00:29:32	300	90	3.0	0 Calibration	2	
0057.cvso-50880913	1020	03:13	05:32:23.4	-02:47:57	300	90	3.0	#112 PMS Orion	2	
0058.COMP	10	03:30	05:32:23.4	-02:47:57	300	90	3.0	0 Calibration	2	
0059.cvso-50881168	420	03:32	05:32:24.0	-05:05:22	300	90	3.0	#112 PMS Orion	2	
0060.COMP	10	03:39	05:32:24.0	-05:05:22	300	90	3.0	0 Calibration	2	
0061.GITau	240	03:41	04:33:34.0	+24:21:18	300	90	3.0	#12 Symbiotic	2	
0062.COMP	10	03:45	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0063.GKTau	240	03:46	04:33:34.5	+24:21:07	300	90	3.0	#12 Symbiotic	2	
0064.COMP	10	03:51	04:33:34.5	+24:21:07	300	90	3.0	0 Calibration	2	
0065.SS129	300	03:53	07:32:45.0	-26:49:16	300	81	3.0	#12 Symbiotic	2	
0066.SS129	300	03:59	07:32:45.0	-26:49:16	300	81	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.COMP	10	04:04	07:32:45.0	-26:49:16	300	80	3.0	0 Calibration	2	
0068.BXMon	15	04:06	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0069.BXMon	180	04:07	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0070.COMP	10	04:11	07:25:23.0	-03:35:51	300	89	3.0	0 Calibration	2	
0071.sn2013ak	1200	04:12	08:07:06.7	-28:03:10	300	89	3.0	#2 SN Observat	2	
0072.COMP	10	04:33	08:07:06.7	-28:03:10	300	90	3.0	0 Calibration	2	
0073.cvso-50881436	420	04:35	05:32:24.5	-04:41:50	300	90	3.0	#112 PMS Orion	2	
0074.COMP	10	04:43	05:32:24.5	-04:41:50	300	90	3.0	0 Calibration	2	
0075.N3377	180	04:44	10:47:42.4	+13:59:08	300	90	3.0	#57 Velocity S	2	
0076.COMP	10	04:48	10:47:42.4	+13:59:08	300	88	3.0	0 Calibration	2	
0077.dC110747p1542	2700	04:51	11:07:47.0	+15:42:20	300	88	3.0	#99 Director	2	
0078.COMP	10	05:37	11:07:47.0	+15:42:20	300	88	3.0	0 Calibration	2	
0079.07581208-1010502	900	05:42	07:58:12.1	-10:10:50	300	88	3.0	#141 2Mass Red	2	
0080.COMP	10	05:59	07:58:12.1	-10:10:50	300	90	3.0	0 Calibration	2	
0081.08025883-1803043	720	06:01	08:02:58.8	-18:03:04	300	80	3.0	#141 2Mass Red	2	
0082.COMP	10	06:14	08:02:58.8	-18:03:04	300	80	3.0	0 Calibration	2	
0083.08052295-1252376	900	06:15	08:05:23.0	-12:52:38	300	90	3.0	#141 2Mass Red	2	
0084.COMP	10	06:31	08:05:23.0	-12:52:38	300	89	3.0	0 Calibration	2	
0085.08060702-2234402	900	06:32	08:06:07.0	-22:34:40	300	89	3.0	#141 2Mass Red	2	
0086.COMP	10	06:48	08:06:07.0	-22:34:40	300	90	3.0	0 Calibration	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.08084644-1958506	600	06:50	08:08:46.4	-19:58:51	300	90	3.0	#141 2Mass Red	2	
0088.COMP	10	07:00	08:08:46.4	-19:58:51	300	90	3.0	0 Calibration	2	
0089.NGC4314	600	07:30	12:22:32.0	+29:53:44	300	-34	3.0	#199 Optical n	2	
0090.NGC4314	600	07:40	12:22:32.0	+29:53:44	300	-34	3.0	#199 Optical n	2	
0091.NGC4314	600	07:50	12:22:32.0	+29:53:44	300	-34	3.0	#199 Optical n	2	
0092.COMP	10	08:01	12:22:32.0	+29:53:44	300	-35	3.0	0 Calibration	2	
0093.dC110747p1542	2700	08:05	11:07:47.0	+15:42:20	300	89	3.0	#99 Director	2	
0094.COMP	10	08:50	11:07:47.0	+15:42:20	300	89	3.0	0 Calibration	2	
0095.NGC5526_NED02	1800	08:56	14:13:53.8	+57:46:17	300	-40	3.0	#199 Optical n	2	
0096.NGC5526_NED02	1800	09:26	14:13:53.8	+57:46:17	300	-40	3.0	#199 Optical n	2	
0097.NGC5526_NED02	1800	09:56	14:13:53.8	+57:46:17	300	-40	3.0	#199 Optical n	2	
0098.COMP	10	10:27	14:13:53.8	+57:46:17	300	-40	3.0	0 Calibration	2	
0099.UGC9618_NED02	1800	10:30	14:57:00.7	+24:37:02	300	0	3.0	#199 Optical n	2	
0100.UGC9618_NED02	1800	11:00	14:57:00.7	+24:37:02	300	0	3.0	#199 Optical n	2	
0101.UGC9618_NED02	1800	11:30	14:57:00.7	+24:37:02	300	0	3.0	#199 Optical n	2	
0102.COMP	10	12:01	14:57:00.7	+24:37:02	300	0	3.0	0 Calibration	2	
0103.4U1907p09	1500	12:09	19:09:38.0	+09:49:47	1200	88	2.0	#176 Be/X-ray	2	
0104.COMP	10	12:34	19:09:38.0	+09:49:47	1200	89	2.0	0 Calibration	2	
0105.BDp262606	70	12:36	14:49:02.4	+25:42:09	1200	89	2.0	#56 Spectropho	2	
0106.COMP	10	12:38	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	2	

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<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0107-0121.FLAT	15	12:48	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	2	
0122-0131.BIAS	0	12:55	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	2	
0132-0141.DARK	900	15:14	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	2	

UT Date 2013-03-19 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	01:55	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	4	
0011-0020.BIAS	0	02:12	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	4	
0021-0030.FLAT	15	02:17	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	2	
0031-0040.BIAS	0	02:20	14:49:02.4	+25:42:09	1200	90	2.0	0 Calibration	2	
0041.HD19445	30	02:28	03:08:25.6	+26:19:51	1200	90	2.0	#56 Spectropho	2	
0042.COMP	10	02:29	03:08:25.6	+26:19:51	1200	90	2.0	0 Calibration	2	
0043.HD19445	30	02:31	03:08:25.6	+26:19:51	1200	90	2.0	#56 Spectropho	2	
0044.COMP	10	02:32	03:08:25.6	+26:19:51	1200	90	2.0	0 Calibration	2	
0045.HD19445	30	02:34	03:08:25.6	+26:19:51	1200	90	2.0	#56 Spectropho	2	
0046.COMP	10	02:35	03:08:25.6	+26:19:51	1200	90	2.0	0 Calibration	2	
0047.IGRJ01583p6713	1500	02:37	01:58:18.2	+67:13:26	1200	90	2.0	#176 Be/X-ray	2	lots of clouds
0048.COMP	10	03:03	01:58:18.2	+67:13:26	1200	90	2.0	0 Calibration	2	
0049.LSIp61303	90	03:04	02:40:31.6	+61:13:46	1200	90	2.0	#176 Be/X-ray	2	
0050.COMP	10	03:06	02:40:31.6	+61:13:46	1200	90	2.0	0 Calibration	2	
0051.XPer	7	03:27	03:55:23.0	+31:02:45	1200	90	2.0	#176 Be/X-ray	2	
0052.COMP	10	03:28	03:55:23.0	+31:02:45	1200	90	2.0	0 Calibration	2	
0053.RXJ04409p4431	600	03:30	04:41:00.6	+44:31:50	1200	90	2.0	#176 Be/X-ray	2	
0054.COMP	10	03:41	04:41:00.6	+44:31:50	1200	90	2.0	0 Calibration	2	
0055.A0535p262	100	03:46	05:38:54.5	+26:18:57	1200	90	2.0	#176 Be/X-ray	2	
0056.COMP	10	03:48	05:38:54.5	+26:18:57	1200	90	2.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0057.IGRJ06074p2205	600	03:53	06:07:26.6	+22:05:48	1200	91	2.0	#176 Be/X-ray	2	
0058.COMP	10	04:04	06:07:26.6	+22:05:48	1200	90	2.0	0 Calibration	2	
0059.MXB0656-072	900	04:06	06:58:17.2	-07:12:35	1200	90	2.0	#176 Be/X-ray	2	
0060.COMP	10	04:22	06:58:17.2	-07:12:35	1200	89	2.0	0 Calibration	2	
0061.sn2013ak	1500	04:34	08:07:06.7	-28:03:10	300	89	3.0	#2 SN Observat	2	
0062.COMP	10	04:59	08:07:06.7	-28:03:10	300	90	3.0	0 Calibration	2	close for clouds
0063.TXCVn	15	07:26	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0064.TXCVn	30	07:29	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0065.COMP	10	07:31	12:44:42.0	+36:45:48	300	88	3.0	0 Calibration	2	
0066.dc110747p1542	1800	07:34	11:07:47.0	+15:42:20	300	88	3.0	#99 Director	2	
0067.COMP	10	08:06	11:07:47.0	+15:42:20	300	90	3.0	0 Calibration	2	
0068.IC3721	600	08:23	12:44:53.1	+18:45:19	300	-46	3.0	#199 Optical n	2	
0069.IC3721	600	08:41	12:44:53.1	+18:45:19	300	-46	3.0	#199 Optical n	2	thru clouds, repeat...
0070.IC3721	600	09:13	12:44:53.1	+18:45:19	300	-46	3.0	#199 Optical n	2	
0071.IC3721	600	09:23	12:44:53.1	+18:45:19	300	-46	3.0	#199 Optical n	2	
0072.COMP	10	09:34	12:44:53.1	+18:45:19	300	-46	3.0	0 Calibration	2	
0073.NGC5147	1200	09:39	13:26:19.7	+02:06:03	300	100	3.0	#199 Optical n	2	
0074.NGC5147	1200	09:59	13:26:19.7	+02:06:03	300	100	3.0	#199 Optical n	2	
0075.NGC5147	1200	10:20	13:26:19.7	+02:06:03	300	100	3.0	#199 Optical n	2	
0076.COMP	10	10:40	13:26:19.7	+02:06:03	300	101	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0077.BDp262606	45	10:43	14:49:02.4	+25:42:09	300	91	3.0	#56 Spectropho	2	
0078.COMP	10	10:44	14:49:02.4	+25:42:09	300	91	3.0	0 Calibration	2	
0079.BDp332642	150	10:46	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0080.COMP	10	10:49	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0081.N4853	420	10:51	12:58:35.2	+27:35:47	300	90	3.0	#57 Velocity S	2	
0082.COMP	10	10:58	12:58:35.2	+27:35:47	300	90	3.0	0 Calibration	2	
0083.dC110747p1542	2400	11:00	11:07:47.0	+15:42:20	300	90	3.0	#99 Director	2	
0084.COMP	10	11:41	11:07:47.0	+15:42:20	300	90	3.0	0 Calibration	2	
0085.TCrB	15	11:44	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0086.TCrB	60	11:44	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0087.COMP	10	11:46	15:59:30.0	+25:55:12	300	90	3.0	0 Calibration	2	
0088.RWHya	2	11:48	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0089.RWHya	10	11:48	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0090.RWHya	20	11:49	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0091.COMP	10	11:50	13:34:18.0	-25:22:51	300	90	3.0	0 Calibration	2	
0092.AGDra	15	11:53	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0093.AGDra	2	11:53	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0094.AGDra	60	11:54	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0095.COMP	10	11:56	16:01:41.0	+66:48:10	300	90	3.0	0 Calibration	2	
0096.AS210	5	12:00	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	

UT Date 2013-03-19 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>
0097.AS210	300	12:00	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0098.COMP	10	12:06	16:51:20.3	-26:00:33	300	90	3.0	0 Calibration	2	
0099.Hen1341	12	12:07	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0100.Hen1341	30	12:08	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0101.Hen1341	60	12:09	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0102.COMP	10	12:10	17:08:36.0	-17:26:30	300	90	3.0	0 Calibration	2	
0103.DracoC1	1200	12:13	17:19:58.0	+57:50:06	300	90	3.0	#12 Symbiotic	2	clouds moved in at end..
0104.COMP	10	12:34	17:19:58.0	+57:50:06	300	89	3.0	0 Calibration	2	
0105-0114.BIAS	0	12:39	17:19:58.0	+57:50:06	300	89	3.0	0 Calibration	2	
0115-0134.FLAT	7	12:46	17:19:58.0	+57:50:06	300	89	3.0	0 Calibration	2	
0135-0144.DARK	900	15:05	17:19:58.0	+57:50:06	300	89	3.0	0 Calibration	2	

UT Date 2013-03-20 Observers M CalkinsColl. Focus 1250 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	00:40	01:04:43.2	+31:26:21	300	90	3.0	0 Calibration	2	
0011-0020.BIAS	0	02:17	01:04:43.2	+31:26:21	300	90	3.0	0 Calibration	2	
0021-0040.FLAT	7	02:29	01:04:43.2	+31:26:21	300	90	3.0	0 Calibration	2	
0041.fastfoc	12	02:36	01:04:43.2	+31:26:21	300	90	3.0	#12 Symbiotic	2	
0042.fastfoc	12	02:37	01:04:43.2	+31:26:21	300	90	3.0	#12 Symbiotic	2	
0043.fastfoc	12	02:37	01:04:43.2	+31:26:21	300	90	3.0	#12 Symbiotic	2	
0044.fastfoc	12	02:38	01:04:43.2	+31:26:21	300	90	3.0	#12 Symbiotic	2	
0045.fastfoc	12	02:38	01:04:43.2	+31:26:21	300	90	3.0	#12 Symbiotic	2	
0047.BIAS	0	02:59	07:17:10.3	+31:32:08	300	89	3.0	0 Calibration	2	
0048.COMP	10	03:02	07:17:10.3	+31:32:08	300	89	3.0	0 Calibration	2	
0049.Hiltner600	90	03:34	06:45:13.4	+02:08:15	300	89	3.0	#56 Spectropho	2	
0050.COMP	10	03:40	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0051.DXCnc.M6V	60	03:57	08:29:49.0	+26:46:34	300	90	3.0	#56 Spectropho	2	
0052.DXCnc.M6V	180	03:59	08:29:49.0	+26:46:34	300	90	3.0	#56 Spectropho	2	
0053.COMP	10	04:06	08:29:49.0	+26:46:34	300	90	3.0	0 Calibration	2	
0054.SWUMa	210	04:16	08:36:43.0	+53:28:37	300	90	3.0	#56 Spectropho	2	
0055.COMP	10	04:22	08:36:43.0	+53:28:37	300	90	3.0	0 Calibration	2	
0056.SN2013ak	1800	04:37	08:07:06.7	-28:03:10	300	90	3.0	#56 Spectropho	2	
0057.COMP	10	05:11	08:07:06.7	-28:03:10	300	90	3.0	0 Calibration	2	
0058.HD84801	30	05:17	09:48:20.0	+28:31:21	300	90	3.0	#56 Spectropho	2	

UT Date 2013-03-20 Observers M CalkinsColl. Focus 1250 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0059.HD84801	5	05:19	09:48:20.0	+28:31:21	300	90	3.0	#56 Spectropho	2	
0060.COMP	10	05:20	09:48:20.0	+28:31:21	300	90	3.0	0 Calibration	2	
0061.CWLeo	300	05:27	09:47:57.0	+13:16:44	300	90	3.0	#56 Spectropho	2	
0062.COMP	10	05:35	09:47:57.0	+13:16:44	300	89	3.0	0 Calibration	2	
0063.SNBen	1800	05:47	10:53:22.8	+16:46:35	300	89	3.0	#56 Spectropho	2	
0064.COMP	10	06:20	10:53:22.8	+16:46:35	300	89	3.0	0 Calibration	2	
0065.HD86612	3	06:27	09:59:06.0	-23:57:02	300	89	3.0	#56 Spectropho	2	
0066.COMP	10	06:30	09:59:06.0	-23:57:02	300	89	3.0	0 Calibration	2	
0067.NGC3526	1800	06:52	11:06:56.6	+07:10:26	300	53	3.0	#56 Spectropho	2	
0068.COMP	10	07:29	11:06:56.6	+07:10:26	300	53	3.0	0 Calibration	2	
0069.NGC_3938	600	07:36	11:52:49.4	+44:07:15	300	89	3.0	#56 Spectropho	2	
0070.NGC_3938	600	07:49	11:52:49.4	+44:07:15	300	89	3.0	#56 Spectropho	2	
0071.COMP	10	08:00	11:52:49.4	+44:07:15	300	87	3.0	0 Calibration	2	
0072.HR4662	1	08:14	12:15:48.4	-17:32:31	300	87	3.0	#56 Spectropho	2	
0073.COMP	10	08:16	12:15:48.4	-17:32:31	300	87	3.0	0 Calibration	2	
0074.HR4775	1	08:21	12:32:04.2	-16:11:46	300	87	3.0	#56 Spectropho	2	
0075.HR4775	5	08:25	12:32:04.2	-16:11:46	300	87	3.0	#56 Spectropho	2	
0076.HR4775	1	08:27	12:32:04.2	-16:11:46	300	87	3.0	#56 Spectropho	2	
0077.COMP	10	08:29	12:32:04.2	-16:11:46	300	87	3.0	0 Calibration	2	
0078.NGC5631	600	08:34	14:26:33.3	+56:34:57	300	87	3.0	#56 Spectropho	2	



UT Date 2013-03-20 Observers M CalkinsColl. Focus 1250 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0079.NGC5631	600	08:45	14:26:33.3	+56:34:57	300	87	3.0	#56 Spectropho	2	
0080.COMP	10	08:57	14:26:33.3	+56:34:57	300	87	3.0	0 Calibration	2	
0081.HZ44	120	09:04	13:23:35.3	+36:07:59	300	87	3.0	#56 Spectropho	2	
0082.HZ44	300	09:08	13:23:35.3	+36:07:59	300	87	3.0	#56 Spectropho	2	
0083.COMP	10	09:14	13:23:35.3	+36:07:59	300	88	3.0	0 Calibration	2	
0084.SN2013ab	900	09:25	14:32:44.5	+09:53:12	300	88	3.0	#56 Spectropho	2	
0085.SN2013ab	900	09:42	14:32:44.5	+09:53:12	300	88	3.0	#56 Spectropho	2	
0086.COMP	10	09:58	14:32:44.5	+09:53:12	300	88	3.0	0 Calibration	2	
0087.SBS1425p606	1800	10:06	14:26:56.0	+60:25:50	300	88	3.0	#56 Spectropho	2	
0088.COMP	10	10:40	14:26:56.0	+60:25:50	300	88	3.0	0 Calibration	2	
0089.NGC5907	1800	10:55	15:15:53.8	+56:19:44	300	-24	3.0	#56 Spectropho	2	
0090.NGC5907	1800	11:28	15:15:53.8	+56:19:44	300	-24	3.0	#56 Spectropho	2	
0091.COMP	10	11:58	15:15:53.8	+56:19:44	300	-25	3.0	0 Calibration	2	
0092.HD157857	15	12:07	17:26:17.0	-11:00:14	300	88	3.0	#56 Spectropho	2	
0093.COMP	10	12:09	17:26:17.0	-11:00:14	300	88	3.0	0 Calibration	2	
0094.HR5868	3	12:14	15:46:26.6	+07:21:11	300	88	3.0	#56 Spectropho	2	
0095.HR5868	1	12:14	15:46:26.6	+07:21:11	300	88	3.0	#56 Spectropho	2	
0096.COMP	10	12:15	15:46:26.6	+07:21:11	300	88	3.0	0 Calibration	2	

UT Date 2013-03-21 Observers M CalkinsColl. Focus 1250 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	00:28	15:46:26.6	+07:21:11	300	88	3.0	0 Calibration	2	
0011-0020.BIAS	0	01:44	15:46:26.6	+07:21:11	300	88	3.0	0 Calibration	2	
0021-0040.FLAT	7	01:51	15:46:26.6	+07:21:11	300	88	3.0	0 Calibration	2	
0041.COMP	10	01:53	15:46:26.6	+07:21:11	300	88	3.0	0 Calibration	2	
0042.moon	1	02:37	07:06:00.0	+17:58:29	300	88	3.0	#57 Velocity S	2	
0043.moon	30	02:39	07:06:00.0	+17:58:29	300	88	3.0	#57 Velocity S	2	
0044.moon	120	02:41	07:06:00.0	+17:58:29	300	88	3.0	#57 Velocity S	2	
0045.moon	120	02:47	07:06:00.0	+17:58:29	300	88	3.0	#57 Velocity S	2	
0046.moon	300	02:53	07:06:00.0	+17:58:29	300	88	3.0	#57 Velocity S	2	
0047.moon	347	03:04	07:06:00.0	+17:58:29	300	88	3.0	#57 Velocity S	2	
0048.moon	5	03:21	07:06:46.6	+17:55:12	300	88	3.0	#57 Velocity S	2	
0049.moon	30	03:22	07:06:46.6	+17:55:12	300	88	3.0	#57 Velocity S	2	
0050.moon	60	03:23	07:06:46.6	+17:55:12	300	88	3.0	#57 Velocity S	2	
0051.moon	60	03:24	07:06:46.6	+17:55:12	300	88	3.0	#57 Velocity S	2	
0052.moon	60	03:26	07:06:46.6	+17:55:12	300	88	3.0	#57 Velocity S	2	
0053.moon	60	03:27	07:06:46.6	+17:55:12	300	88	3.0	#57 Velocity S	2	
0054.COMP	10	03:30	07:06:46.6	+17:55:12	300	88	3.0	0 Calibration	2	
0055.jupiter	15	03:46	04:34:25.0	+21:33:00	300	88	3.0	#57 Velocity S	2	
0056.jupiter	60	03:48	04:34:25.0	+21:33:00	300	88	3.0	#57 Velocity S	2	
0057.jupiter	60	03:57	04:34:25.0	+21:33:00	300	88	3.0	#57 Velocity S	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0058.COMP	10	03:59	04:34:25.0	+21:33:00	300	88	3.0	0 Calibration	2	
0059.HD56925	30	04:45	07:18:29.0	-13:13:03	300	88	3.0	#57 Velocity S	2	
0060.HD56925	30	04:49	07:18:29.0	-13:13:03	300	88	3.0	#57 Velocity S	2	
0061.COMP	10	04:50	07:18:29.0	-13:13:03	300	89	3.0	0 Calibration	2	
0062.G191B2B	120	05:05	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	
0063.G191B2B	300	05:08	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	
0064.COMP	10	05:14	05:05:30.6	+52:49:52	300	88	3.0	0 Calibration	2	
0065.HD42543	5	05:21	06:12:19.0	+22:54:31	300	88	3.0	#56 Spectropho	2	
0066.HD42543	2	05:21	06:12:19.0	+22:54:31	300	88	3.0	#56 Spectropho	2	
0067.COMP	10	05:24	06:12:19.0	+22:54:31	300	88	3.0	0 Calibration	2	
0068.HD49099	1	05:31	06:41:59.0	+06:20:43	300	88	3.0	#56 Spectropho	2	
0069.HD49099	2	05:32	06:41:59.0	+06:20:43	300	88	3.0	#56 Spectropho	2	
0070.COMP	10	05:34	06:41:59.0	+06:20:43	300	88	3.0	0 Calibration	2	
0071.HD56216	5	05:40	07:16:10.0	+09:59:48	300	88	3.0	#56 Spectropho	2	
0072.HD56216	5	05:41	07:16:10.0	+09:59:48	300	88	3.0	#56 Spectropho	2	
0073.COMP	10	05:44	07:16:10.0	+09:59:48	300	88	3.0	0 Calibration	2	
0074.HD76221	1	05:48	08:55:23.0	+17:14:00	300	88	3.0	#56 Spectropho	2	
0075.HD76221	1	05:49	08:55:23.0	+17:14:00	300	88	3.0	#56 Spectropho	2	
0076.COMP	10	05:51	08:55:23.0	+17:14:00	300	88	3.0	0 Calibration	2	
0077.NGC3184	600	06:01	10:18:16.8	+41:25:27	300	88	3.0	#56 Spectropho	2	

UT Date 2013-03-21 Observers M CalkinsColl. Focus 1250 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0078.NGC3184	600	06:13	10:18:16.8	+41:25:27	300	88	3.0	#56 Spectropho	2	
0079.COMP	10	06:24	10:18:16.8	+41:25:27	300	88	3.0	0 Calibration	2	
0080.NGC3184_HII	900	06:29	10:18:16.8	+41:25:27	300	88	3.0	#56 Spectropho	2	
0081.COMP	10	06:48	10:18:16.8	+41:25:27	300	88	3.0	0 Calibration	2	
0082.NGC4348	1402	07:00	12:23:54.0	-03:26:35	300	37	3.0	#56 Spectropho	2	
0083.COMP	10	07:28	12:23:54.0	-03:26:35	300	37	3.0	0 Calibration	2	
0084.NGC4348	1800	07:35	12:23:54.0	-03:26:35	300	37	3.0	#56 Spectropho	2	
0085.SN2013aj	1800	08:13	13:54:00.7	-07:55:44	300	89	3.0	#56 Spectropho	2	
0086.COMP	10	08:48	13:54:00.7	-07:55:44	300	90	3.0	0 Calibration	2	
0087.SN2013aj	1324	08:57	14:26:56.0	+60:25:50	300	90	3.0	#56 Spectropho	2	
0088.COMP	10	09:41	14:26:56.0	+60:25:50	300	89	3.0	0 Calibration	2	
0089.HD143454	5	09:56	15:59:30.0	+25:55:12	300	89	3.0	#56 Spectropho	2	
0090.HD143454	30	09:57	15:59:30.0	+25:55:12	300	89	3.0	#56 Spectropho	2	
0091.COMP	10	10:00	15:59:30.0	+25:55:12	300	88	3.0	0 Calibration	2	
0092.HD142926	2	10:05	15:55:30.0	+42:33:57	300	88	3.0	#56 Spectropho	2	
0093.COMP	10	10:06	15:55:30.0	+42:33:57	300	88	3.0	0 Calibration	2	
0094.HD142926_nw	5	10:10	15:55:30.0	+42:33:57	300	88	3.0	#56 Spectropho	2	
0095.HD142926_nw	20	10:11	15:55:30.0	+42:33:57	300	88	3.0	#56 Spectropho	2	
0096.PSNJ18501129	1800	10:35	18:50:11.3	+30:20:59	300	89	3.0	#56 Spectropho	2	
0097.PSNJ18501129	1800	11:06	18:50:11.3	+30:20:59	300	89	3.0	#56 Spectropho	2	

UT Date 2013-03-21 Observers M CalkinsColl. Focus 1250 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>
0098.COMP	10	11:37	18:50:11.3	+30:20:59	300	89	3.0	0 Calibration	2	
0099.IRCp10420	15	11:45	19:26:48.1	+11:21:17	300	89	3.0	#56 Spectropho	2	
0100.IRCp10420	120	11:46	19:26:48.1	+11:21:17	300	89	3.0	#56 Spectropho	2	
0101.IRCp10420	180	11:50	19:26:48.1	+11:21:17	300	89	3.0	#56 Spectropho	2	
0102.COMP	10	11:55	19:26:48.1	+11:21:17	300	89	3.0	0 Calibration	2	
0103.BDp262606	60	12:02	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0104.COMP	10	12:14	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0105.HD148184	1	12:18	16:27:01.0	-18:27:21	300	89	3.0	#56 Spectropho	2	
0106.COMP	10	12:19	16:27:01.0	-18:27:21	300	89	3.0	0 Calibration	2	
0107.HD168607	1	12:26	18:21:14.9	-16:22:32	300	89	3.0	#56 Spectropho	2	
0108.HD168607	10	12:26	18:21:14.9	-16:22:32	300	89	3.0	#56 Spectropho	2	
0109.COMP	10	12:28	18:21:14.9	-16:22:32	300	89	3.0	0 Calibration	2	