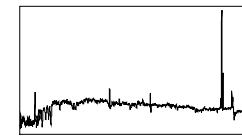


UT Date 2014-02-02 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	03:47	02:51:23.6	+31:27:05	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	04:37	02:51:23.6	+31:27:05	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	04:46	02:51:23.6	+31:27:05	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	04:50	02:51:23.6	+31:27:05	300	89	3.0	0 Calibration	2	
0051.G191B2B	360	05:26	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	
0052.COMP	10	05:33	05:05:30.6	+52:49:52	300	89	3.0	0 Calibration	2	
0053.Hiltner600	180	05:37	06:45:13.4	+02:08:15	300	89	3.0	#56 Spectropho	2	
0054.COMP	10	05:40	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	
0055.A00167.1	1200	05:43	08:38:09.8	+00:27:52	300	89	3.0	#216 Local Com	2	
0056.COMP	10	06:05	08:38:09.8	+00:27:52	300	89	3.0	0 Calibration	2	
0057.A00105.1	1500	06:07	08:38:20.6	+01:43:57	300	89	3.0	#216 Local Com	2	
0058.COMP	10	06:35	08:38:20.6	+01:43:57	300	89	3.0	0 Calibration	2	
0059.A00598.1	420	06:37	08:45:00.3	+01:40:58	300	65	3.0	#216 Local Com	2	
0060.COMP	10	06:44	08:45:00.3	+01:40:58	300	65	3.0	0 Calibration	2	
0061.A00107.2	1800	06:48	08:48:41.4	+10:30:55	300	89	3.0	#216 Local Com	2	
0062.COMP	10	07:18	08:48:41.4	+10:30:55	300	90	3.0	0 Calibration	2	
0063-0072.FLAT	30	08:03	09:55:42.1	+69:40:26	1200	89	1.1	0 Calibration	2	
0073.sn2014J	13	08:05	09:55:42.1	+69:40:26	1200	89	1.1	#2 SN Observat	2	
0074.sn2014J	13	08:06	09:55:42.1	+69:40:26	1200	89	1.1	#2 SN Observat	2	
0075.sn2014J	13	08:06	09:55:42.1	+69:40:26	1200	89	1.1	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0076.COMP	20	08:07	09:55:42.1	+69:40:26	1200	89	1.1	0 Calibration	2	
0077.sn2014J	600	08:09	09:55:42.1	+69:40:26	1200	89	1.1	#2 SN Observat	2	
0078.COMP	15	08:20	09:55:42.1	+69:40:26	1200	90	1.1	0 Calibration	2	
0079.sn2013gs	2400	08:24	09:31:08.9	+46:23:05	1200	90	1.1	#2 SN Observat	2	weak
0080.COMP	15	09:05	09:31:08.9	+46:23:05	1200	90	1.1	0 Calibration	2	
0081.sn3013ge	1800	09:07	10:34:48.5	+21:39:42	1200	90	1.1	#2 SN Observat	2	
0082.COMP	10	09:38	10:34:48.5	+21:39:42	1200	89	1.1	0 Calibration	2	
0083.sn2014J	10	09:53	09:55:42.1	+69:40:26	300	89	3.0	#2 SN Observat	2	
0084.sn2014J	10	09:54	09:55:42.1	+69:40:26	300	89	3.0	#2 SN Observat	2	
0085.sn2014J	10	09:54	09:55:42.1	+69:40:26	300	89	3.0	#2 SN Observat	2	
0086.COMP	10	09:56	09:55:42.1	+69:40:26	300	89	3.0	0 Calibration	2	
0087.sn2013gs	2400	09:58	09:31:08.9	+46:23:05	300	100	3.0	#2 SN Observat	2	
0088.COMP	10	10:38	09:31:08.9	+46:23:05	300	99	3.0	0 Calibration	2	
0089.sn3013ge	1800	10:40	10:34:48.5	+21:39:42	300	99	3.0	#2 SN Observat	2	
0090.COMP	10	11:11	10:34:48.5	+21:39:42	300	100	3.0	0 Calibration	2	
0091.sn2014L	1200	11:14	12:18:48.7	+14:24:44	300	100	3.0	#2 SN Observat	2	
0092.COMP	10	11:34	12:18:48.7	+14:24:44	300	99	3.0	0 Calibration	2	
0093.SN-14ad	1500	11:36	12:40:11.1	+18:03:33	300	91	3.0	#2 SN Observat	2	
0094.COMP	10	12:02	12:40:11.1	+18:03:33	300	91	3.0	0 Calibration	2	
0095.MS1221p2452	1800	12:05	12:24:24.2	+24:36:20	300	91	3.0	#99 Other Falc	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0095.MS1221p2452q.ms	1800	12:05	12:24:24.2	+24:36:20	300	91	3.0	#99 Other Falc	1	
0096.COMP	10	12:36	12:24:24.2	+24:36:20	300	91	3.0	0 Calibration	2	
0097.A01585.2	1800	12:37	14:42:34.2	+26:59:20	300	91	3.0	#216 Local Com	2	
0098.COMP	10	13:08	14:42:34.2	+26:59:20	300	90	3.0	0 Calibration	2	
0099.BDp332642	90	13:09	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0100.COMP	10	13:11	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0101.BDp262606	35	13:13	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0102.COMP	10	13:15	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0103-0112.BIAS	0	13:24	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0113-0132.FLAT	7	13:30	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0133-0142.DARK	900	15:50	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
comp300+600.ms	10	05:47	10:39:36.9	+43:06:11	300	90	3.0	#56 Spectropho	1	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	02:16	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	02:33	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	03:39	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	03:42	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0051.G191B2B	360	04:16	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	thru cirrus
0052.COMP	10	04:22	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0053.Hiltner600	240	04:24	06:45:13.4	+02:08:15	300	90	3.0	#56 Spectropho	2	
0054.COMP	10	04:29	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0055.GITau	360	04:37	04:33:34.0	+24:21:18	300	90	3.0	#12 Symbiotic	2	
0056.COMP	10	04:43	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0057.GKTau	600	04:44	04:33:34.5	+24:21:07	300	90	3.0	#12 Symbiotic	2	
0058.COMP	10	04:55	04:33:34.5	+24:21:07	300	90	3.0	0 Calibration	2	
0059.BGGem	1200	04:57	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	
0060.COMP	10	05:17	06:03:31.0	+27:41:50	300	89	3.0	0 Calibration	2	
0061.BXMon	20	05:19	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0062.BXMon	240	05:20	07:25:23.0	-03:35:51	300	89	3.0	#12 Symbiotic	2	
0063.COMP	10	05:25	07:25:23.0	-03:35:51	300	90	3.0	0 Calibration	2	
0064.A00107.1	1800	05:31	08:48:42.1	+10:31:34	300	90	3.0	#216 Local Com	2	clearing...
0065.COMP	10	06:02	08:48:42.1	+10:31:34	300	90	3.0	0 Calibration	2	
0066.A00578.1	1200	06:03	09:10:19.0	+02:11:22	300	90	3.0	#216 Local Com	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.COMP	10	06:23	09:10:19.0	+02:11:22	300	90	3.0	0 Calibration	2	
0068.A00274.1	2400	06:26	09:10:52.6	+28:12:49	300	90	3.0	#216 Local Com	2	
0069.COMP	10	07:07	09:10:52.6	+28:12:49	300	90	3.0	0 Calibration	2	
0070.A01296.1	600	07:08	09:31:11.3	+32:24:11	300	90	3.0	#216 Local Com	2	
0071.COMP	10	07:19	09:31:11.3	+32:24:11	300	90	3.0	0 Calibration	2	
0072.SS129	300	07:22	07:32:45.0	-26:49:16	300	76	3.0	#12 Symbiotic	2	
0073.SS129	300	07:27	07:32:45.0	-26:49:16	300	76	3.0	#12 Symbiotic	2	
0074.COMP	10	07:33	07:32:45.0	-26:49:16	300	75	3.0	0 Calibration	2	
0075.A00588.1	780	07:35	09:32:43.1	+35:49:21	300	90	3.0	#216 Local Com	2	
0076.COMP	10	07:49	09:32:43.1	+35:49:21	300	90	3.0	0 Calibration	2	
0077.A00150.1	720	07:52	09:34:22.7	-00:15:38	300	90	3.0	#216 Local Com	2	
0078.COMP	10	08:04	09:34:22.7	-00:15:38	300	90	3.0	0 Calibration	2	
0079.A00583.1	1200	08:06	09:49:23.1	+19:56:45	300	90	3.0	#216 Local Com	2	
0080.COMP	10	08:26	09:49:23.1	+19:56:45	300	90	3.0	0 Calibration	2	
0081.A00631.1	1800	08:29	10:26:43.7	+00:05:23	300	95	3.0	#216 Local Com	2	
0082.COMP	10	09:00	10:26:43.7	+00:05:23	300	95	3.0	0 Calibration	2	
0083.sn2014J	13	09:02	09:55:42.1	+69:40:26	300	95	3.0	#2 SN Observat	2	
0084.sn2014J	13	09:03	09:55:42.1	+69:40:26	300	95	3.0	#2 SN Observat	2	
0085.sn2014J	13	09:03	09:55:42.1	+69:40:26	300	95	3.0	#2 SN Observat	2	
0086.COMP	10	09:04	09:55:42.1	+69:40:26	300	95	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.HD86728	3	09:07	10:01:00.7	+31:55:25	300	95	3.0	#173 Small Sol	2	
0088.HD86728	1	09:08	10:01:00.7	+31:55:25	300	95	3.0	#173 Small Sol	2	
0089.COMP	10	09:09	10:01:00.7	+31:55:25	300	95	3.0	0 Calibration	2	
0090.AY28	900	09:10	10:28:39.0	+46:36:33	300	91	3.0	#173 Small Sol	2	
0091.COMP	10	09:26	10:28:39.0	+46:36:33	300	91	3.0	0 Calibration	2	
0092.TXCVn	10	09:28	12:44:42.0	+36:45:48	300	91	3.0	#12 Symbiotic	2	
0093.TXCVn	30	09:29	12:44:42.0	+36:45:48	300	91	3.0	#12 Symbiotic	2	
0094.COMP	10	09:30	12:44:42.0	+36:45:48	300	91	3.0	0 Calibration	2	
0095.T345210561	30	09:31	11:59:58.3	+47:30:53	300	91	3.0	#192 DASCH Lon	2	
0096.T345210561	100	09:32	11:59:58.3	+47:30:53	300	91	3.0	#192 DASCH Lon	2	
0097.COMP	10	09:34	11:59:58.3	+47:30:53	300	90	3.0	0 Calibration	2	
0098.T345210561	135	09:35	11:59:58.3	+47:30:53	300	90	3.0	#192 DASCH Lon	2	
0099.COMP	10	09:38	11:59:58.3	+47:30:53	300	91	3.0	0 Calibration	2	
0100.MS1221p2452	900	09:39	12:24:24.2	+24:36:20	300	91	3.0	#99 Other Falc	2	
0101.MS1221p2452	900	09:55	12:24:24.2	+24:36:20	300	91	3.0	#99 Other Falc	2	
0102.MS1221p2452	900	10:10	12:24:24.2	+24:36:20	300	91	3.0	#99 Other Falc	2	
0103.COMP	10	10:25	12:24:24.2	+24:36:20	300	91	3.0	0 Calibration	2	
0104.bcand607	1440	10:32	12:29:22.2	+09:03:23	600	91	1.5	#178 Low Mass	4	
0105.COMP	10	10:57	12:29:22.2	+09:03:23	600	90	1.5	0 Calibration	4	
0106.bcand607	1440	10:58	12:29:22.2	+09:03:23	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
0107.COMP	10	11:22	12:29:22.2	+09:03:23	600	90	1.5	0 Calibration	4	
0108.bcand607	1440	11:23	12:29:22.2	+09:03:23	600	90	1.5	#178 Low Mass	4	
0109.COMP	10	11:48	12:29:22.2	+09:03:23	600	90	1.5	0 Calibration	4	
0110.hotwd110	1370	11:50	12:48:24.7	+66:39:29	600	90	1.5	#178 Low Mass	4	
0111.COMP	10	12:14	12:48:24.7	+66:39:29	600	90	1.5	0 Calibration	4	
0112.hotwd110	1370	12:15	12:48:24.7	+66:39:29	600	90	1.5	#178 Low Mass	4	
0113.COMP	10	12:38	12:48:24.7	+66:39:29	600	90	1.5	0 Calibration	4	
0114.hotwd110	1370	12:39	12:48:24.7	+66:39:29	600	90	1.5	#178 Low Mass	4	
0115.COMP	10	13:02	12:48:24.7	+66:39:29	600	91	1.5	0 Calibration	4	
0116.Feige34	300	13:05	10:39:36.7	+43:06:09	600	91	1.5	#178 Low Mass	4	
0117.COMP	10	13:10	10:39:36.7	+43:06:09	600	91	1.5	0 Calibration	4	
0118-0127.FLAT	12	13:17	10:39:36.7	+43:06:09	600	91	1.5	0 Calibration	4	
0128-0137.BIAS	0	13:20	10:39:36.7	+43:06:09	600	91	1.5	0 Calibration	4	
0138-0147.BIAS	0	13:24	10:39:36.7	+43:06:09	600	91	1.5	0 Calibration	2	
0148-0155.DARK	900	15:25	10:39:36.7	+43:06:09	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
0001-0002.BIAS	0	19:16	21:54:25.7	+31:26:32	300	90	3.0	0 Calibration	2	
0003.COMP	10	22:50	21:54:25.7	+31:26:32	300	90	3.0	0 Calibration	2	
0004-0013.BIAS	0	22:58	21:54:25.7	+31:26:32	300	90	3.0	0 Calibration	2	
0014-0023.FLAT	7	23:08	21:54:25.7	+31:26:32	300	90	3.0	0 Calibration	2	
0024-0028.DARK	1200	00:30	21:54:25.7	+31:26:32	300	90	3.0	0 Calibration	2	
0029.BIAS	0	02:03	21:54:25.7	+31:26:32	300	90	3.0	0 Calibration	2	lots of cirrus
0030.HD19445	10	02:14	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0031.COMP	10	02:15	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	
0032.EGAnd	1	02:20	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0033.EGAnd	5	02:20	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0034.EGAnd	10	02:21	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0035.COMP	10	02:21	00:44:37.0	+40:40:47	300	90	3.0	0 Calibration	2	
0036.AXPer	4	02:23	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0037.AXPer	30	02:23	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0038.AXPer	90	02:24	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0039.COMP	10	02:26	01:36:23.0	+54:15:03	300	90	3.0	0 Calibration	2	
0040.HPbcg152	900	02:28	00:48:03.2	+20:44:56	300	91	3.0	#210 Brightest	2	seeing good
0041.COMP	10	02:44	00:48:03.2	+20:44:56	300	91	3.0	0 Calibration	2	MMT seeing 1.0
0042.HPbcg151	900	02:45	02:09:28.4	+19:46:36	300	91	3.0	#210 Brightest	2	
0043.COMP	10	03:02	02:09:28.4	+19:46:36	300	91	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0044.GITau	240	03:06	04:33:34.0	+24:21:18	300	91	3.0	#12 Symbiotic	2	
0045.GKTau	240	03:11	04:33:34.5	+24:21:07	300	91	3.0	#12 Symbiotic	2	
0046.COMP	10	03:15	04:33:34.5	+24:21:07	300	91	3.0	0 Calibration	2	
0047.05254442+1203515	1200	03:18	05:25:44.4	+12:03:52	300	91	3.0	#141 2MASS Red	2	
0048.COMP	10	03:38	05:25:44.4	+12:03:52	300	91	3.0	0 Calibration	2	
0049.03472525+4213515	800	03:47	03:47:25.2	+42:13:51	300	90	3.0	#141 2MASS Red	2	
0050.COMP	10	04:00	03:47:25.2	+42:13:51	300	90	3.0	0 Calibration	2	
0051.03475261+4210286	1200	04:01	03:47:52.6	+42:10:29	300	90	3.0	#141 2MASS Red	2	
0052.COMP	10	04:22	03:47:52.6	+42:10:29	300	90	3.0	0 Calibration	2	
0053.03522890+4507359	900	04:23	03:52:28.9	+45:07:36	300	91	3.0	#141 2MASS Red	2	weak; star to W
0054.COMP	10	04:39	03:52:28.9	+45:07:36	300	91	3.0	0 Calibration	2	
0055.03561171+4448004	1200	04:41	03:56:11.7	+44:48:00	300	91	3.0	#141 2MASS Red	2	obj to E; other objs E,W
0056.COMP	10	05:01	03:56:11.7	+44:48:00	300	91	3.0	0 Calibration	2	
0057.04061163+4443200	900	05:02	04:06:11.6	+44:43:20	300	91	3.0	#141 2MASS Red	2	
0058.COMP	10	05:18	04:06:11.6	+44:43:20	300	90	3.0	0 Calibration	2	
0059.SS129	300	05:20	07:32:45.0	-26:49:16	300	90	3.0	#12 Symbiotic	2	star to W
0060.SS129	300	05:25	07:32:45.0	-26:49:16	300	90	3.0	#12 Symbiotic	2	
0061.COMP	10	05:31	07:32:45.0	-26:49:16	300	90	3.0	0 Calibration	2	
0062.BXMon	15	05:32	07:25:23.0	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0063.BXMon	180	05:33	07:25:23.0	-03:35:51	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
0064.COMP	10	05:36	07:25:23.0	-03:35:51	300	90	3.0	0 Calibration	2	
0065.BGGem	300	05:38	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	
0066.COMP	10	05:43	06:03:31.0	+27:41:50	300	90	3.0	0 Calibration	2	
0067.HPbcg101	1200	05:45	07:26:50.0	+31:02:04	300	90	3.0	#210 Brightest	2	
0068.COMP	10	06:05	07:26:50.0	+31:02:04	300	90	3.0	0 Calibration	2	
0069.HPbcg060	1200	06:08	08:31:13.7	+82:22:30	300	90	3.0	#210 Brightest	2	
0070.COMP	10	06:28	08:31:13.7	+82:22:30	300	90	3.0	0 Calibration	2	
0071.HPbcg118	1200	06:32	08:20:22.6	+82:10:49	300	90	3.0	#210 Brightest	2	
0072.COMP	10	06:53	08:20:22.6	+82:10:49	300	90	3.0	0 Calibration	2	
0073.HPbcg119	1200	06:53	08:22:39.5	+82:29:25	300	91	3.0	#210 Brightest	2	
0074.COMP	10	07:14	08:22:39.5	+82:29:25	300	91	3.0	0 Calibration	2	
0075.sn2014J	600	07:17	09:55:42.1	+69:40:26	300	91	3.0	#2 SN Observat	2	
0076.COMP	10	07:27	09:55:42.1	+69:40:26	300	91	3.0	0 Calibration	2	
0077.HPbcg061	1200	07:31	10:15:58.4	+33:36:05	300	91	3.0	#210 Brightest	2	
0078.COMP	10	07:52	10:15:58.4	+33:36:05	300	91	3.0	0 Calibration	2	
0079.A01372.1	900	07:55	08:45:07.9	+51:02:53	300	91	3.0	#216 Local Com	2	
0080.COMP	10	08:10	08:45:07.9	+51:02:53	300	91	3.0	0 Calibration	2	
0081.A00078.1	420	08:11	09:34:47.3	+51:35:50	300	91	3.0	#216 Local Com	2	
0082.COMP	10	08:19	09:34:47.3	+51:35:50	300	91	3.0	0 Calibration	2	
0083.A01437.1	420	08:20	08:45:20.1	+41:32:32	300	91	3.0	#216 Local Com	2	

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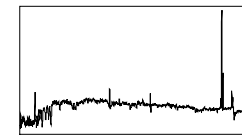
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0084.COMP	10	08:28	08:45:20.1	+41:32:32	300	91	3.0	0 Calibration	2	
0085.A01690.1	600	08:30	09:26:31.8	+27:29:12	300	91	3.0	#216 Local Com	2	
0086.COMP	10	08:40	09:26:31.8	+27:29:12	300	91	3.0	0 Calibration	2	
0087.A00267.2	720	08:42	08:56:49.8	+21:49:50	300	91	3.0	#216 Local Com	2	big gxy to E
0088.COMP	10	08:54	08:56:49.8	+21:49:50	300	90	3.0	0 Calibration	2	
0089.A00866.1	720	08:56	08:58:41.7	+03:44:23	300	90	3.0	#216 Local Com	2	
0090.COMP	10	09:08	08:58:41.7	+03:44:23	300	90	3.0	0 Calibration	2	
0091.A00151.2	720	09:10	09:17:39.2	+15:22:45	300	90	3.0	#216 Local Com	2	
0092.COMP	10	09:23	09:17:39.2	+15:22:45	300	90	3.0	0 Calibration	2	
0093.A00035.2	720	09:25	09:24:09.0	+13:13:08	300	90	3.0	#216 Local Com	2	
0094.COMP	10	09:37	09:24:09.0	+13:13:08	300	90	3.0	0 Calibration	2	
0095.A00348.1	600	09:39	09:42:59.5	+06:13:04	300	90	3.0	#216 Local Com	2	
0096.COMP	10	09:49	09:42:59.5	+06:13:04	300	90	3.0	0 Calibration	2	
0097.A00110.2	360	09:57	09:48:44.2	+25:29:47	300	90	3.0	#216 Local Com	2	
0098.COMP	10	10:04	09:48:44.2	+25:29:47	300	90	3.0	0 Calibration	2	
0099.A01390.1	480	10:07	10:15:11.9	+60:09:54	300	90	3.0	#216 Local Com	2	
0100.COMP	10	10:15	10:15:11.9	+60:09:54	300	90	3.0	0 Calibration	2	
0101.A00438.1	1200	10:22	10:07:37.3	+48:23:52	300	-4	3.0	#216 Local Com	2	rot=-5,A00438.1=row80,A00438.2=row94
0102.COMP	10	10:42	10:07:37.3	+48:23:52	300	-4	3.0	0 Calibration	2	
0103.A02283.1	720	10:46	13:26:38.2	+42:14:50	300	89	3.0	#216 Local Com	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0104.COMP	10	10:59	13:26:38.2	+42:14:50	300	89	3.0	0 Calibration	2	
0105.A01977.1	600	11:01	11:55:33.8	+39:16:34	300	89	3.0	#216 Local Com	2	
0106.COMP	10	11:11	11:55:33.8	+39:16:34	300	89	3.0	0 Calibration	2	
0107.A00729.1	600	11:14	11:56:22.3	+11:30:35	300	90	3.0	#216 Local Com	2	
0108.COMP	10	11:25	11:56:22.3	+11:30:35	300	90	3.0	0 Calibration	2	
0109.sn2014L	1800	11:26	12:18:48.7	+14:24:44	300	90	3.0	#2 SN Observat	2	
0110.COMP	10	11:56	12:18:48.7	+14:24:44	300	90	3.0	0 Calibration	2	
0111.A02155.1	720	12:01	14:53:03.3	+20:05:55	300	90	3.0	#216 Local Com	2	
0112.COMP	10	12:13	14:53:03.3	+20:05:55	300	90	3.0	0 Calibration	2	
0113.PS1-14mj	1800	12:18	16:40:55.2	+61:17:22	300	90	3.0	#2 SN Observat	2	
0114.COMP	10	12:48	16:40:55.2	+61:17:22	300	88	3.0	0 Calibration	2	
0115.Pbcg100	720	12:51	13:48:52.5	+26:35:35	300	88	3.0	#210 Brightest	2	
0116.COMP	10	13:03	13:48:52.5	+26:35:35	300	88	3.0	0 Calibration	2	
0117.BDp332642	120	13:05	15:51:59.9	+32:56:54	300	88	3.0	#56 Spectropho	2	
0118.COMP	10	13:08	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0119.TXCVn	10	13:09	12:44:42.0	+36:45:48	300	88	3.0	#12 Symbiotic	2	
0120.TXCVn	30	13:10	12:44:42.0	+36:45:48	300	88	3.0	#12 Symbiotic	2	
0121.COMP	10	13:11	12:44:42.0	+36:45:48	300	88	3.0	0 Calibration	2	
0122.TCrB	15	13:12	15:59:30.0	+25:55:12	300	88	3.0	#12 Symbiotic	2	
0123.TCrB	60	13:13	15:59:30.0	+25:55:12	300	88	3.0	#12 Symbiotic	2	

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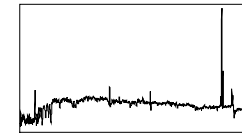
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0124.COMP	10	13:14	15:59:30.0	+25:55:12	300	88	3.0	0 Calibration	2	
0125.AGDra	2	13:16	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0126.AGDra	15	13:16	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0127.AGDra	60	13:17	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0128.COMP	10	13:18	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0129-0138.BIAS	0	13:30	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0139-0153.FLAT	7	13:35	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0154-0158.DARK	900	14:39	16:01:41.0	+66:48:10	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
0001.BIAS	0	23:29	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	clouds
0002-0010.BIAS	0	23:31	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0011-0025.FLAT	7	23:36	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0026-0030.DARK	900	00:40	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0031-0032.DARK	1800	02:05	16:01:41.0	+66:48:10	300	88	3.0	0 Calibration	2	
0033.05062657+3031474	900	02:59	05:06:26.6	+30:31:47	300	88	3.0	#141 2MASS Red	2	hunting thru clouds
0034.COMP	10	03:15	05:06:26.6	+30:31:47	300	88	3.0	0 Calibration	2	
0035.05150775+5206599	900	03:17	05:15:07.8	+52:07:00	300	88	3.0	#141 2MASS Red	2	
0036.COMP	10	03:33	05:15:07.8	+52:07:00	300	82	3.0	0 Calibration	2	
0037.05182902+5040578	287	03:37	05:18:29.0	+50:40:58	300	89	3.0	#141 2MASS Red	2	rack lost power
0038.COMP	10	03:42	05:18:29.0	+50:40:58	300	89	3.0	0 Calibration	2	
0039.05182902+5040578	900	03:57	05:18:29.0	+50:40:58	300	85	3.0	#141 2MASS Red	2	very weak (clouds)
0040.COMP	10	04:12	05:18:29.0	+50:40:58	300	85	3.0	0 Calibration	2	
0041.Hiltner600	300	04:15	06:45:13.4	+02:08:15	300	85	3.0	#56 Spectropho	2	
0042.COMP	10	04:20	06:45:13.4	+02:08:15	300	85	3.0	0 Calibration	2	
0043.06330049+2222008	1200	04:27	06:33:00.5	+22:22:01	300	85	3.0	#141 2MASS Red	2	
0044.COMP	10	04:47	06:33:00.5	+22:22:01	300	85	3.0	0 Calibration	2	
0045.back08	600	04:51	08:44:38.0	+01:44:07	300	85	3.0	#216 Local Com	2	
0046.COMP	10	05:01	08:44:38.0	+01:44:07	300	85	3.0	0 Calibration	2	
0047.BIAS	0	05:08	08:44:38.0	+01:44:07	600	85	3.0	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0048.COMP	10	05:11	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	600line, tilt445, 1.5 slit
0049.lamost131	300	05:12	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0050.COMP	10	05:18	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0051.lamost131	300	05:19	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0052.COMP	10	05:24	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0053.lamost131	300	05:25	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0054.COMP	10	05:30	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0055.lamost131	300	05:31	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0056.COMP	10	05:37	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0057.lamost131	300	05:38	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0058.COMP	10	05:43	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0059.lamost131	300	05:44	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0060.COMP	10	05:49	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0061.lamost131	300	05:50	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0062.COMP	10	05:56	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0063.lamost131	300	05:56	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0064.COMP	10	06:02	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0065.lamost131	189	06:04	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0066.COMP	10	06:07	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0067.lamost131	300	06:08	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0068.COMP	10	06:14	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0069.lamost131	300	06:15	06:47:55.2	+11:34:05	600	85	3.0	#178 Low Mass	4	
0070.COMP	10	06:20	06:47:55.2	+11:34:05	600	85	3.0	0 Calibration	4	
0071.lamost164	300	06:22	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	
0072.COMP	10	06:27	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0073.lamost164	300	06:28	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	
0074.COMP	10	06:33	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0075.lamost164	300	06:34	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	
0076.COMP	10	06:40	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0077.lamost164	300	06:40	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	
0078.COMP	10	06:46	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0079.lamost164	277	06:47	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	rack lost power; partial exposure
0080.COMP	10	06:52	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0081.lamost164	300	06:56	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	
0082.COMP	10	07:01	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0083.lamost164	300	07:01	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	
0084.COMP	10	07:07	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0085.lamost164	247	07:08	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	rack lost power again
0086.COMP	10	07:13	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0087.lamost164	300	07:16	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0088.COMP	10	07:21	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0089.lamost164	300	07:22	06:47:19.9	+43:25:43	600	85	3.0	#178 Low Mass	4	
0090.COMP	10	07:27	06:47:19.9	+43:25:43	600	85	3.0	0 Calibration	4	
0091.hotwd079	900	07:30	08:01:15.1	+10:20:45	600	90	3.0	#178 Low Mass	4	star to W
0092.COMP	10	07:45	08:01:15.1	+10:20:45	600	90	3.0	0 Calibration	4	
0093.hotwd079	900	07:46	08:01:15.1	+10:20:45	600	90	3.0	#178 Low Mass	4	
0094.COMP	10	08:01	08:01:15.1	+10:20:45	600	90	3.0	0 Calibration	4	
0095.hotwd079	900	08:02	08:01:15.1	+10:20:45	600	90	3.0	#178 Low Mass	4	
0096.COMP	10	08:17	08:01:15.1	+10:20:45	600	90	3.0	0 Calibration	4	
0097.hotwd079	900	08:18	08:01:15.1	+10:20:45	600	90	3.0	#178 Low Mass	4	clouds
0098.COMP	10	08:33	08:01:15.1	+10:20:45	600	90	3.0	0 Calibration	4	
0099.Feige34	360	08:36	10:39:36.7	+43:06:09	600	90	3.0	#56 Spectropho	4	
0100.COMP	10	08:43	10:39:36.7	+43:06:09	600	90	3.0	0 Calibration	4	
0101-0110.BIAS	0	08:47	13:36:33.7	+06:46:27	600	90	3.0	0 Calibration	4	
0111-0125.FLAT	12	09:00	13:36:33.7	+06:46:27	600	90	3.0	0 Calibration	4	
0126.hotwd116	900	09:21	13:36:33.7	+06:46:27	600	90	3.0	#178 Low Mass	4	thru clouds
0126.hotwd116q.ms	900	09:21	13:36:33.7	+06:46:27	600	90	3.0	#178 Low Mass	1	
0127.COMP	10	09:37	13:36:33.7	+06:46:27	600	90	3.0	0 Calibration	4	
0128.hotwd116	900	09:37	13:36:33.7	+06:46:27	600	90	3.0	#178 Low Mass	4	
0128.hotwd116q.ms	900	09:37	13:36:33.7	+06:46:27	600	90	3.0	#178 Low Mass	1	

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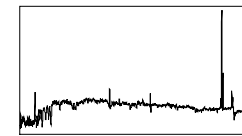
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0129.COMP	10	09:53	13:36:33.7	+06:46:27	600	90	3.0	0 Calibration	4	
0130.hotwd116	900	09:54	13:36:33.7	+06:46:27	600	90	3.0	#178 Low Mass	4	no signal
0131.COMP	10	10:09	13:36:33.7	+06:46:27	600	90	3.0	0 Calibration	4	
0132.hotwd116	900	10:10	13:36:33.7	+06:46:27	600	90	3.0	#178 Low Mass	4	
0133.COMP	10	10:26	13:36:33.7	+06:46:27	600	90	3.0	0 Calibration	4	
0134.hotwd116	900	10:27	13:36:33.7	+06:46:27	600	90	3.0	#178 Low Mass	4	
0135.COMP	10	10:42	13:36:33.7	+06:46:27	600	90	3.0	0 Calibration	4	
0136.BIAS	0	10:49	13:36:33.7	+06:46:27	300	90	3.0	0 Calibration	4	
0137.COMP	10	10:51	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0138.COMP	10	10:53	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0139.COMP	10	10:59	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0140.COMP	10	11:02	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	300line,3.0 slit
0141.RWHya	10	11:10	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0142.RWHya	60	11:11	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0143.COMP	10	11:12	13:34:18.0	-25:22:51	300	90	3.0	0 Calibration	2	
0144.RWHya	300	11:13	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0145.sn2014J	176	11:22	09:55:42.1	+69:40:26	300	90	3.0	#2 SN Observat	2	
0146.COMP	10	11:25	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0147.sn2014J	296	11:26	09:55:42.1	+69:40:26	300	90	3.0	#2 SN Observat	2	
0148.sn2014J	699	11:34	09:55:42.1	+69:40:26	300	90	3.0	#2 SN Observat	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>
0149.COMP	10	11:46	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0150.sn2014J	74	11:47	09:55:42.1	+69:40:26	300	90	3.0	#2 SN Observat	2	
0151.sn2014J	314	11:55	09:55:42.1	+69:40:26	300	90	3.0	#2 SN Observat	2	
0152.COMP	10	12:01	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0153-0162.BIAS	0	12:10	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0163-0178.FLAT	7	12:15	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0179-0188.DARK	1200	15:30	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
comp600+440.ms	5	08:44	11:13:04.3	+11:23:36	600	90	2.0	#166 Hyper Vel	1	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	23:09	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	thick clouds
0002-0010.BIAS	0	23:11	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0011-0025.FLAT	7	23:16	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0026-0030.DARK	900	00:20	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0031-0035.DARK	1800	03:19	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0036.DARK	1800	05:40	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	4	
0037.HD84937	30	06:18	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0038.COMP	10	06:18	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0039.Feige34	180	06:21	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0040.COMP	10	06:24	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0041.sn2014J	1200	06:25	09:55:42.1	+69:40:26	300	90	3.0	#2 SN Observat	2	thru clouds
0042.COMP	10	06:46	09:55:42.1	+69:40:26	300	90	3.0	0 Calibration	2	
0043.A00080.1	600	06:48	08:35:28.1	+39:54:58	300	90	3.0	#216 Local Com	2	
0044.COMP	10	06:59	08:35:28.1	+39:54:58	300	90	3.0	0 Calibration	2	
0045.A00499.1	600	07:24	09:44:01.1	-02:37:58	300	90	3.0	#216 Local Com	2	no
0046.A00499.1	900	07:35	09:44:01.1	-02:37:58	300	90	3.0	#216 Local Com	2	
0047.COMP	10	07:50	09:44:01.1	-02:37:58	300	90	3.0	0 Calibration	2	
0048.A00499.4	805	07:53	09:43:55.9	-02:37:36	300	87	3.0	#216 Local Com	2	499.4=row143,499.3=row56
0049.COMP	10	08:06	09:43:55.9	-02:37:36	300	87	3.0	0 Calibration	2	
0050.A00499.2	600	08:21	09:43:56.2	-02:36:32	300	87	3.0	#216 Local Com	2	very weak

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0051-0052.DARK	1800	10:07	09:43:56.2	-02:36:32	300	87	3.0	0 Calibration	4	
0053.BIAS	0	10:56	14:23:37.0	+25:49:28	300	87	3.0	0 Calibration	2	
0054.BIAS	360	10:56	14:23:37.0	+25:49:28	300	87	3.0	0 Calibration	2	object is Pbcg123, star to E
0055.COMP	10	11:03	14:23:37.0	+25:49:28	300	87	3.0	0 Calibration	2	
0056.Pbcg109	240	11:04	14:00:00.9	+28:30:00	300	87	3.0	#210 Brightest	2	
0057.COMP	10	11:08	14:00:00.9	+28:30:00	300	87	3.0	0 Calibration	2	
0058.Pbcg110	360	11:09	14:01:19.3	+28:31:08	300	87	3.0	#210 Brightest	2	
0059.COMP	10	11:15	14:01:19.3	+28:31:08	300	87	3.0	0 Calibration	2	
0060.Pbcg111	420	11:17	14:02:03.0	+26:53:44	300	87	3.0	#210 Brightest	2	
0061.COMP	10	11:24	14:02:03.0	+26:53:44	300	87	3.0	0 Calibration	2	
0062.Pbcg112	420	11:25	14:05:17.5	+26:37:43	300	87	3.0	#210 Brightest	2	
0063.COMP	10	11:33	14:05:17.5	+26:37:43	300	87	3.0	0 Calibration	2	
0064.A00163.1	720	11:35	13:47:52.6	+21:15:07	300	87	3.0	#216 Local Com	2	
0065.COMP	10	11:47	13:47:52.6	+21:15:07	300	87	3.0	0 Calibration	2	
0066.A00835.1	900	11:49	14:02:45.6	+27:51:31	300	87	3.0	#216 Local Com	2	
0067.COMP	10	12:04	14:02:45.6	+27:51:31	300	88	3.0	0 Calibration	2	
0068.A00276.2	720	12:07	14:23:39.2	+06:13:40	300	88	3.0	#216 Local Com	2	
0069.COMP	10	12:19	14:23:39.2	+06:13:40	300	88	3.0	0 Calibration	2	
0070.A00184.1	720	12:20	15:08:32.5	+05:50:35	300	88	3.0	#216 Local Com	2	
0071.COMP	10	12:33	15:08:32.5	+05:50:35	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
0072.a14back33	720	12:40	16:11:30.1	+52:45:03	300	88	3.0	#216 Local Com	2	
0073.COMP	10	12:52	16:11:30.1	+52:45:03	300	88	3.0	0 Calibration	2	
0074.Hen1341	12	13:00	17:08:36.0	-17:26:30	300	88	3.0	#12 Symbiotic	2	
0075.Hen1341	30	13:00	17:08:36.0	-17:26:30	300	88	3.0	#12 Symbiotic	2	
0076.Hen1341	60	13:01	17:08:36.0	-17:26:30	300	88	3.0	#12 Symbiotic	2	
0077.COMP	10	13:02	17:08:36.0	-17:26:30	300	88	3.0	0 Calibration	2	
0078.RSOph	10	13:05	17:50:13.0	-06:42:30	300	88	3.0	#12 Symbiotic	2	WRONG STAR
0079.RSOph	10	13:07	17:50:13.0	-06:42:30	300	88	3.0	#12 Symbiotic	2	correct star
0080.RSOph	60	13:07	17:50:13.0	-06:42:30	300	88	3.0	#12 Symbiotic	2	
0081.RSOph	150	13:08	17:50:13.0	-06:42:30	300	88	3.0	#12 Symbiotic	2	
0082.COMP	10	13:11	17:50:13.0	-06:42:30	300	88	3.0	0 Calibration	2	
0083-0092.BIAS	0	13:21	17:50:13.0	-06:42:30	300	88	3.0	0 Calibration	2	
0093-0107.FLAT	7	13:26	17:50:13.0	-06:42:30	300	88	3.0	0 Calibration	2	
0108-0112.DARK	900	14:31	17:50:13.0	-06:42:30	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
0001.fastfoc	10	23:25	17:50:13.0	-06:42:30	600	89	1.5	#12 Symbiotic	4	x6 foc=1330 for 6001
0002.fastfoc	10	23:25	17:50:13.0	-06:42:30	600	89	1.5	#12 Symbiotic	4	
0003.fastfoc	10	23:25	17:50:13.0	-06:42:30	600	89	1.5	#12 Symbiotic	4	
0004.fastfoc	10	23:26	17:50:13.0	-06:42:30	600	89	1.5	#12 Symbiotic	4	
0005.fastfoc	10	23:26	17:50:13.0	-06:42:30	600	89	1.5	#12 Symbiotic	4	
0006.fastfoc	10	23:27	17:50:13.0	-06:42:30	600	89	1.5	#12 Symbiotic	4	
0007.BIAS	0	23:33	17:50:13.0	-06:42:30	600	89	1.5	0 Calibration	4	x13
0008-0019.BIAS	0	23:34	17:50:13.0	-06:42:30	600	89	1.5	0 Calibration	4	
0020.FLAT	12	23:35	17:50:13.0	-06:42:30	600	89	1.5	0 Calibration	4	x10
0021-0029.FLAT	12	23:39	17:50:13.0	-06:42:30	600	89	1.5	0 Calibration	4	
0030.DARK	900	00:03	17:50:13.0	-06:42:30	600	89	1.5	0 Calibration	4	x5
0031-0034.DARK	900	01:05	17:50:13.0	-06:42:30	600	89	1.5	0 Calibration	4	
0035.G191B2B	300	02:15	05:05:30.6	+52:49:52	600	81	1.5	#56 Spectropho	4	variable clouds; non-photometric
0036.COMP	10	02:20	05:05:30.6	+52:49:52	600	81	1.5	0 Calibration	4	
0037.lamost007	420	02:23	02:53:02.5	+55:28:15	600	81	1.5	#178 Low Mass	4	
0038.COMP	10	02:30	02:53:02.5	+55:28:15	600	89	1.5	0 Calibration	4	
0039.lamost007	600	02:31	02:53:02.5	+55:28:15	600	89	1.5	#178 Low Mass	4	
0040.COMP	10	02:41	02:53:02.5	+55:28:15	600	90	1.5	0 Calibration	4	
0041.lamost007	600	02:42	02:53:02.5	+55:28:15	600	89	1.5	#178 Low Mass	4	increasing clouds
0042.COMP	10	02:53	02:53:02.5	+55:28:15	600	89	1.5	0 Calibration	4	

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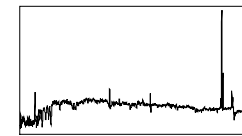
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0043.lamost007	720	02:56	02:53:02.5	+55:28:15	600	89	1.5	#178 Low Mass	4	
0044.COMP	10	03:09	02:53:02.5	+55:28:15	600	89	1.5	0 Calibration	4	
0045.lamost007	900	03:32	02:53:02.5	+55:28:15	600	89	1.5	#178 Low Mass	4	
0046.COMP	10	03:47	02:53:02.5	+55:28:15	600	89	1.5	0 Calibration	4	
0047.lamost041	780	03:50	03:14:10.3	+51:55:50	600	90	1.5	#178 Low Mass	4	
0048.COMP	10	04:03	03:14:10.3	+51:55:50	600	90	1.5	0 Calibration	4	
0049.lamost041	780	04:04	03:14:10.3	+51:55:50	600	89	1.5	#178 Low Mass	4	
0050.COMP	10	04:17	03:14:10.3	+51:55:50	600	89	1.5	0 Calibration	4	
0051.lamost041	780	04:18	03:14:10.3	+51:55:50	600	89	1.5	#178 Low Mass	4	
0052.COMP	10	04:31	03:14:10.3	+51:55:50	600	89	1.5	0 Calibration	4	
0053.lamost041	900	04:32	03:14:10.3	+51:55:50	600	90	1.5	#178 Low Mass	4	
0054.COMP	10	04:48	03:14:10.3	+51:55:50	600	90	1.5	0 Calibration	4	
0055.lamost020	600	04:49	03:49:05.1	+52:36:11	600	90	1.5	#178 Low Mass	4	
0056.COMP	10	05:00	03:49:05.1	+52:36:11	600	90	1.5	0 Calibration	4	
0057.lamost020	720	05:00	03:49:05.1	+52:36:11	600	89	1.5	#178 Low Mass	4	
0058.COMP	10	05:13	03:49:05.1	+52:36:11	600	89	1.5	0 Calibration	4	
0059.lamost020	840	05:13	03:49:05.1	+52:36:11	600	89	1.5	#178 Low Mass	4	network down; file 59 written but 0060.COMP failed, use 0058.CO
0060.BIAS	0	06:24	07:26:59.5	+33:17:09	600	89	1.5	0 Calibration	4	testing...network fixed
0061.lmwd526	1080	06:25	07:26:59.5	+33:17:09	600	89	1.5	#178 Low Mass	4	
0062.COMP	10	06:44	07:26:59.5	+33:17:09	600	89	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0063.lmwd526	1080	06:44	07:26:59.5	+33:17:09	600	89	1.5	#178 Low Mass	4	
0064.COMP	10	07:03	07:26:59.5	+33:17:09	600	89	1.5	0 Calibration	4	
0065.lmwd526	1080	07:03	07:26:59.5	+33:17:09	600	89	1.5	#178 Low Mass	4	
0066.COMP	10	07:22	07:26:59.5	+33:17:09	600	89	1.5	0 Calibration	4	
0067.lmwd037	1080	07:24	07:56:10.7	+67:04:25	600	89	1.5	#178 Low Mass	4	clouds back
0068.COMP	10	07:42	07:56:10.7	+67:04:25	600	89	1.5	0 Calibration	4	
0069.lmwd037	1200	07:43	07:56:10.7	+67:04:25	600	90	1.5	#178 Low Mass	4	
0070.COMP	10	08:03	07:56:10.7	+67:04:25	600	89	1.5	0 Calibration	4	
0071.lmwd037	1200	08:04	07:56:10.7	+67:04:25	600	89	1.5	#178 Low Mass	4	heavy cloud cover
0072.COMP	10	08:25	07:56:10.7	+67:04:25	600	89	1.5	0 Calibration	4	
0073-0079.DARK	900	10:48	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	
0080.BIAS	0	11:08	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	x10
0081-0089.BIAS	0	11:09	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	
0090.FLAT	12	11:10	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	x10
0091-0099.FLAT	12	11:13	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.fastfoc	10	23:24	10:06:42.4	+69:41:50	600	90	1.5	#178 Low Mass	4	x6 foc=1350 for 600line
0002.fastfoc	10	23:25	10:06:42.4	+69:41:50	600	90	1.5	#178 Low Mass	4	
0003.fastfoc	10	23:25	10:06:42.4	+69:41:50	600	90	1.5	#178 Low Mass	4	
0004.fastfoc	10	23:25	10:06:42.4	+69:41:50	600	90	1.5	#178 Low Mass	4	
0005.fastfoc	10	23:26	10:06:42.4	+69:41:50	600	90	1.5	#178 Low Mass	4	
0006.fastfoc	10	23:26	10:06:42.4	+69:41:50	600	90	1.5	#178 Low Mass	4	
0007.BIAS	0	23:30	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	x13
0008-0019.BIAS	0	23:31	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	
0020.FLAT	12	23:32	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	x10
0021-0029.FLAT	12	23:37	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	
0030.DARK	900	23:39	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	x5
0031-0034.DARK	900	00:41	10:06:42.4	+69:41:50	600	90	1.5	0 Calibration	4	
0035.Feige34	300	07:34	10:39:36.7	+43:06:09	600	90	1.5	#178 Low Mass	4	clouds clearing; seeing poor 2
0036.COMP	10	07:40	10:39:36.7	+43:06:09	600	90	1.5	0 Calibration	4	
0037.bcand853	1080	07:42	10:06:42.4	+69:41:50	600	89	1.5	#178 Low Mass	4	
0038.COMP	10	08:00	10:06:42.4	+69:41:50	600	89	1.5	0 Calibration	4	
0039.bcand853	1080	08:01	10:06:42.4	+69:41:50	600	89	1.5	#178 Low Mass	4	
0040.COMP	10	08:19	10:06:42.4	+69:41:50	600	89	1.5	0 Calibration	4	
0041.bcand853	1080	08:19	10:06:42.4	+69:41:50	600	89	1.5	#178 Low Mass	4	
0042.COMP	10	08:38	10:06:42.4	+69:41:50	600	89	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0043.bcand510	1500	08:42	10:24:48.9	+08:56:20	600	89	1.5	#178 Low Mass	4	
0044.COMP	10	09:07	10:24:48.9	+08:56:20	600	89	1.5	0 Calibration	4	
0045.bcand510	1500	09:07	10:24:48.9	+08:56:20	600	90	1.5	#178 Low Mass	4	
0046.COMP	10	09:33	10:24:48.9	+08:56:20	600	90	1.5	0 Calibration	4	
0047.COMP	5	09:36	12:40:00.0	+30:00:00	300	90	3.0	0 Calibration	4	GRATING CHANGE
0048.sn3013ge	1800	09:39	10:34:48.5	+21:39:42	300	89	3.0	#2 SN Observat	2	
0049.COMP	10	10:09	10:34:48.5	+21:39:42	300	89	3.0	0 Calibration	2	
0050.SA102m370	240	10:11	10:56:33.8	-01:10:41	300	89	3.0	#173 Small Sol	2	
0051.COMP	10	10:16	10:56:33.8	-01:10:41	300	89	3.0	0 Calibration	2	
0052.Asteroid.Erigone.163	180	10:17	10:23:45.0	+09:16:35	300	89	3.0	#173 Small Sol	2	
0053.Asteroid.Erigone.163	180	10:20	10:23:45.0	+09:16:35	300	89	3.0	#173 Small Sol	2	
0054.Asteroid.Erigone.163	180	10:23	10:23:45.0	+09:16:35	300	89	3.0	#173 Small Sol	2	
0055.COMP	10	10:27	10:23:45.0	+09:16:35	300	89	3.0	0 Calibration	2	
0056.sn2014J	600	10:29	09:55:42.1	+69:40:26	300	89	3.0	#2 SN Observat	2	
0057.COMP	10	10:40	09:55:42.1	+69:40:26	300	89	3.0	0 Calibration	2	
0058.Asteroid.495.Eulalia	600	10:44	13:05:30.0	-07:05:53	300	89	3.0	#173 Small Sol	2	
0059.COMP	10	10:54	13:05:30.0	-07:05:53	300	89	3.0	0 Calibration	2	
0060.Asteroid.495.Eulalia	600	10:55	13:05:30.0	-07:05:53	300	89	3.0	#173 Small Sol	2	
0061.COMP	10	11:05	13:05:30.0	-07:05:53	300	89	3.0	0 Calibration	2	
0062.Asteroid.495.Eulalia	600	11:06	13:05:30.0	-07:05:53	300	89	3.0	#173 Small Sol	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0063.COMP	10	11:16	13:05:30.0	-07:05:53	300	89	3.0	0 Calibration	2	
0064.HD117860	60	11:17	13:33:11.3	-08:26:36	300	89	3.0	#173 Small Sol	2	saturated, will do again
0065.COMP	10	11:19	13:33:11.3	-08:26:36	300	89	3.0	0 Calibration	2	
0066.HD117860	15	11:19	13:33:11.3	-08:26:36	300	89	3.0	#173 Small Sol	2	
0067.sn2014L	1800	11:21	12:18:48.7	+14:24:44	300	89	3.0	#2 SN Observat	2	
0068.COMP	10	11:52	12:18:48.7	+14:24:44	300	89	3.0	0 Calibration	2	
0069.A00365.2	1020	11:55	14:45:32.0	-02:44:36	300	76	3.0	#216 Local Com	2	
0070.COMP	10	12:12	14:45:32.0	-02:44:36	300	75	3.0	0 Calibration	2	
0071.DracoC1	1200	12:15	17:19:58.0	+57:50:06	300	88	3.0	#12 Symbiotic	2	
0072.COMP	10	12:35	17:19:58.0	+57:50:06	300	88	3.0	0 Calibration	2	
0073.AS296	30	12:38	18:15:07.0	-00:18:52	300	88	3.0	#12 Symbiotic	2	
0074.AS296	120	12:39	18:15:07.0	-00:18:52	300	88	3.0	#12 Symbiotic	2	
0075.COMP	10	12:41	18:15:07.0	-00:18:52	300	88	3.0	0 Calibration	2	
0076.AS338	540	12:44	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0077.AS338	90	12:53	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0078.COMP	10	12:55	19:03:47.0	+16:26:17	300	89	3.0	0 Calibration	2	
0079.V443Her	90	12:56	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0080.V443Her	45	12:58	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0081.V443Her	5	12:59	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0082.COMP	10	12:59	18:22:07.0	+23:27:20	300	89	3.0	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>
0083.YYHer	60	13:00	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0084.YYHer	10	13:01	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0085.COMP	10	13:02	18:14:34.0	+20:59:19	300	89	3.0	0 Calibration	2	
0086.BDp262606	60	13:03	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0087.COMP	10	13:05	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0088.BDp332642	120	13:06	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0089.COMP	10	13:08	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0090-0104.FLAT	7	13:13	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0105-0114.BIAS	0	13:15	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0115-0124.DARK	900	15:39	15:51:59.9	+32:56:54	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	00:42	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	4	x10
0002-0010.BIAS	0	00:43	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	4	
0011.BIAS	0	00:43	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	x10
0012-0020.BIAS	0	00:45	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0021.FLAT	7	00:45	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	x15
0022-0035.FLAT	7	00:50	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0036.fastfoc	5	01:02	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	4	x6 foc=1345 300line
0037.fastfoc	5	01:03	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	4	
0038.fastfoc	5	01:03	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	4	
0039.fastfoc	5	01:03	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	4	
0040.fastfoc	5	01:04	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	4	
0041.fastfoc	5	01:04	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	4	
0042.HD19445	20	02:12	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	4	ignore, wrong binning
0043.HD19445	20	02:13	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	2	variable clouds; non-photometric
0044.COMP	10	02:13	03:08:25.6	+26:19:51	300	89	3.0	0 Calibration	2	
0045.EGAnd	1	02:16	00:44:37.0	+40:40:47	300	89	3.0	#12 Symbiotic	2	
0046.EGAnd	5	02:16	00:44:37.0	+40:40:47	300	89	3.0	#12 Symbiotic	2	
0047.EGAnd	10	02:16	00:44:37.0	+40:40:47	300	89	3.0	#12 Symbiotic	2	
0048.COMP	10	02:17	00:44:37.0	+40:40:47	300	89	3.0	0 Calibration	2	
0049.AXPer	5	02:18	01:36:23.0	+54:15:03	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
0050.AXPer	45	02:19	01:36:23.0	+54:15:03	300	89	3.0	#12 Symbiotic	2	
0051.AXPer	180	02:20	01:36:23.0	+54:15:03	300	89	3.0	#12 Symbiotic	2	
0052.COMP	10	02:23	01:36:23.0	+54:15:03	300	89	3.0	0 Calibration	2	
0053.GITau	360	02:25	04:33:34.0	+24:21:18	300	90	3.0	#12 Symbiotic	2	
0054.COMP	10	02:31	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0055.GKTau	360	02:32	04:33:34.5	+24:21:07	300	89	3.0	#12 Symbiotic	2	
0056.COMP	10	02:38	04:33:34.5	+24:21:07	300	89	3.0	0 Calibration	2	
0057.BGGem	600	02:40	06:03:31.0	+27:41:50	300	90	3.0	#12 Symbiotic	2	
0058.COMP	10	02:50	06:03:31.0	+27:41:50	300	90	3.0	0 Calibration	2	
0059.BXMon	180	02:52	07:25:23.0	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0060.BXMon	15	02:55	07:25:23.0	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0061.COMP	10	02:56	07:25:23.0	-03:35:51	300	90	3.0	0 Calibration	2	
0062.lamost039	720	03:02	03:06:26.9	+50:23:06	600	89	1.5	#178 Low Mass	4	600line grating
0063.COMP	10	03:14	03:06:26.9	+50:23:06	600	90	1.5	0 Calibration	4	
0064.lamost039	720	03:15	03:06:26.9	+50:23:06	600	89	1.5	#178 Low Mass	4	
0065.COMP	10	03:27	03:06:26.9	+50:23:06	600	89	1.5	0 Calibration	4	
0066.lamost039	720	03:27	03:06:26.9	+50:23:06	600	89	1.5	#178 Low Mass	4	
0067.COMP	10	03:40	03:06:26.9	+50:23:06	600	90	1.5	0 Calibration	4	
0068.lamost039	840	03:40	03:06:26.9	+50:23:06	600	90	1.5	#178 Low Mass	4	
0069.COMP	10	03:55	03:06:26.9	+50:23:06	600	90	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0070.lamost025	360	03:56	03:41:50.9	+52:23:22	600	90	1.5	#178 Low Mass	4	
0071.COMP	10	04:02	03:41:50.9	+52:23:22	600	90	1.5	0 Calibration	4	
0072.lamost025	420	04:03	03:41:50.9	+52:23:22	600	90	1.5	#178 Low Mass	4	
0073.COMP	10	04:10	03:41:50.9	+52:23:22	600	90	1.5	0 Calibration	4	
0074.lamost025	480	04:11	03:41:50.9	+52:23:22	600	90	1.5	#178 Low Mass	4	
0075.COMP	10	04:19	03:41:50.9	+52:23:22	600	90	1.5	0 Calibration	4	
0076.lamost025	480	04:20	03:41:50.9	+52:23:22	600	90	1.5	#178 Low Mass	4	
0077.COMP	10	04:28	03:41:50.9	+52:23:22	600	89	1.5	0 Calibration	4	
0078.lamost025	480	04:29	03:41:50.9	+52:23:22	600	89	1.5	#178 Low Mass	4	
0079.COMP	10	04:37	03:41:50.9	+52:23:22	600	89	1.5	0 Calibration	4	
0080.lamost082	1200	04:39	05:59:05.7	+29:31:33	600	89	1.5	#178 Low Mass	4	
0081.COMP	10	04:59	05:59:05.7	+29:31:33	600	90	1.5	0 Calibration	4	
0082.lamost082	1200	05:00	05:59:05.7	+29:31:33	600	90	1.5	#178 Low Mass	4	
0083.COMP	10	05:20	05:59:05.7	+29:31:33	600	90	1.5	0 Calibration	4	
0084.lamost082	1200	05:21	05:59:05.7	+29:31:33	600	90	1.5	#178 Low Mass	4	
0085.COMP	10	05:41	05:59:05.7	+29:31:33	600	90	1.5	0 Calibration	4	
0086.lamost062	780	05:51	07:15:40.3	+27:30:56	600	89	1.5	#178 Low Mass	4	
0087.COMP	10	06:05	07:15:40.3	+27:30:56	600	89	1.5	0 Calibration	4	
0088.lamost062	780	06:05	07:15:40.3	+27:30:56	600	89	1.5	#178 Low Mass	4	
0089.COMP	10	06:18	07:15:40.3	+27:30:56	600	90	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0090.lamost062	780	06:19	07:15:40.3	+27:30:56	600	90	1.5	#178 Low Mass	4	
0091.COMP	10	06:32	07:15:40.3	+27:30:56	600	90	1.5	0 Calibration	4	
0092.lamost062	780	06:33	07:15:40.3	+27:30:56	600	89	1.5	#178 Low Mass	4	
0093.COMP	10	06:46	07:15:40.3	+27:30:56	600	90	1.5	0 Calibration	4	
0094.bcand510	1500	06:48	10:24:48.9	+08:56:20	600	89	1.5	#178 Low Mass	4	
0095.COMP	10	07:13	10:24:48.9	+08:56:20	600	89	1.5	0 Calibration	4	
0096.Feige34	180	07:15	10:39:36.7	+43:06:09	600	89	1.5	#178 Low Mass	4	
0097.COMP	10	07:18	10:39:36.7	+43:06:09	600	89	1.5	0 Calibration	4	
0098.bhvs060	1260	07:21	11:09:15.0	+03:18:09	600	89	1.5	#178 Low Mass	4	
0099.COMP	10	07:42	11:09:15.0	+03:18:09	600	89	1.5	0 Calibration	4	
0100.bhvs060	1260	07:43	11:09:15.0	+03:18:09	600	89	1.5	#178 Low Mass	4	
0101.COMP	10	08:04	11:09:15.0	+03:18:09	600	89	1.5	0 Calibration	4	
0102.bhvs060	1260	08:05	11:09:15.0	+03:18:09	600	89	1.5	#178 Low Mass	4	
0103.COMP	10	08:26	11:09:15.0	+03:18:09	600	89	1.5	0 Calibration	4	
0104.bcand865	1200	08:28	12:55:26.3	+47:57:19	600	88	1.5	#178 Low Mass	4	
0105.COMP	10	08:48	12:55:26.3	+47:57:19	600	88	1.5	0 Calibration	4	
0106.bcand865	1200	08:49	12:55:26.3	+47:57:19	600	89	1.5	#178 Low Mass	4	
0107.COMP	10	09:09	12:55:26.3	+47:57:19	600	89	1.5	0 Calibration	4	
0108.bcand865	1200	09:10	12:55:26.3	+47:57:19	600	89	1.5	#178 Low Mass	4	
0109.COMP	10	09:30	12:55:26.3	+47:57:19	600	89	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0110.lmwd541	960	09:32	13:55:12.3	+19:56:45	600	89	1.5	#178 Low Mass	4	
0111.COMP	10	09:48	13:55:12.3	+19:56:45	600	89	1.5	0 Calibration	4	
0112.lmwd541	960	09:49	13:55:12.3	+19:56:45	600	83	1.5	#178 Low Mass	4	
0113.COMP	10	10:05	13:55:12.3	+19:56:45	600	83	1.5	0 Calibration	4	
0114.lmwd541	960	10:06	13:55:12.3	+19:56:45	600	85	1.5	#178 Low Mass	4	
0115.COMP	10	10:22	13:55:12.3	+19:56:45	600	87	1.5	0 Calibration	4	
0116.lmwd541	757	10:23	13:55:12.3	+19:56:45	600	87	1.5	#178 Low Mass	4	drive power failed; cut exposure short
0117.COMP	10	10:36	13:55:12.3	+19:56:45	600	90	1.5	0 Calibration	4	
0118.bcand899	900	10:42	15:55:02.0	+24:44:22	600	86	1.5	#178 Low Mass	4	
0119.COMP	10	10:58	15:55:02.0	+24:44:22	600	87	1.5	0 Calibration	4	
0120.bcand899	799	10:58	15:55:02.0	+24:44:22	600	87	1.5	#178 Low Mass	4	drive power failed; cut exposure short
0121.COMP	10	11:12	15:55:02.0	+24:44:22	600	87	1.5	0 Calibration	4	
0122.bcand899	900	11:14	15:55:02.0	+24:44:22	600	87	1.5	#178 Low Mass	4	
0123.COMP	10	11:30	15:55:02.0	+24:44:22	600	86	1.5	0 Calibration	4	
0124.bcand899	900	11:30	15:55:02.0	+24:44:22	600	88	1.5	#178 Low Mass	4	
0125.COMP	10	11:46	15:55:02.0	+24:44:22	600	88	1.5	0 Calibration	4	
0126.FLAT	12	11:48	15:10:00.0	+30:00:00	600	88	1.5	0 Calibration	4	x10
0127-0135.FLAT	12	11:51	15:10:00.0	+30:00:00	600	88	1.5	0 Calibration	4	
0136.TEST	5	11:54	15:10:00.0	+30:00:00	300	88	3.0	#178 Low Mass	4	GRATING CHANGE
0137.TEST2	5	11:55	15:10:00.0	+30:00:00	300	88	3.0	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0138.psnj1235	960	11:58	12:35:52.2	+27:55:56	300	88	3.0	#2 SN Observat	2	drive power failed again; image cut short
0139.COMP	10	12:15	12:35:52.2	+27:55:56	300	90	3.0	0 Calibration	2	
0140.RWHya	20	12:25	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0141.RWHya	10	12:26	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0142.RWHya	2	12:26	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0143.COMP	10	12:27	13:34:18.0	-25:22:51	300	90	3.0	0 Calibration	2	
0144.TXCVn	30	12:29	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0145.TXCVn	10	12:30	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0146.COMP	10	12:31	12:44:42.0	+36:45:48	300	90	3.0	0 Calibration	2	
0147.AGDra	60	12:37	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0148.AGDra	15	12:39	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0149.AGDra	2	12:39	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0150.COMP	10	12:40	16:01:41.0	+66:48:10	300	90	3.0	0 Calibration	2	
0151.BDp262606	60	12:51	14:49:02.4	+25:42:09	300	86	3.0	#56 Spectropho	2	
0152.COMP	10	12:52	14:49:02.4	+25:42:09	300	86	3.0	0 Calibration	2	
0153.BDp332642	120	12:55	15:51:59.9	+32:56:54	300	86	3.0	#56 Spectropho	2	
0154.COMP	10	12:58	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	2	
0155.BIAS	0	12:59	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	4	x10
0156-0164.BIAS	0	13:01	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	4	
0165.BIAS	0	13:01	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	2	x10



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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>
0166-0174.BIAS	0	13:02	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	2	
0175.FLAT	7	13:03	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	2	x15
0176-0189.FLAT	7	13:07	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	2	
0190-0194.DARK	900	14:14	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	4	
0195-0198.DARK	900	15:15	15:51:59.9	+32:56:54	300	86	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.fastfoc	10	23:38	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	x6 foc=1330 for 600line
0002.fastfoc	10	23:39	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	
0003.fastfoc	10	23:39	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	
0004.fastfoc	10	23:40	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	
0005.fastfoc	10	23:40	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	
0006.fastfoc	10	23:41	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	
0007.BIAS	0	23:42	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	x13
0008-0019.BIAS	0	23:44	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	
0020.FLAT	12	23:44	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	x10
0021-0029.FLAT	13	23:48	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	
0030.DARK	900	23:49	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	x5
0031-0034.DARK	900	00:50	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	
0035.G191B2B	240	02:20	05:05:30.6	+52:49:52	600	89	1.5	#56 Spectropho	4	
0036.COMP	10	02:24	05:05:30.6	+52:49:52	600	89	1.5	0 Calibration	4	
0037.lamost091	480	02:28	02:44:03.2	+53:05:52	600	90	1.5	#178 Low Mass	4	
0038.COMP	10	02:36	02:44:03.2	+53:05:52	600	90	1.5	0 Calibration	4	
0039.lamost091	480	02:37	02:44:03.2	+53:05:52	600	89	1.5	#178 Low Mass	4	
0040.COMP	10	02:45	02:44:03.2	+53:05:52	600	89	1.5	0 Calibration	4	
0041.lamost091	480	02:46	02:44:03.2	+53:05:52	600	90	1.5	#178 Low Mass	4	
0042.COMP	10	02:54	02:44:03.2	+53:05:52	600	90	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0043.lamost091	480	02:54	02:44:03.2	+53:05:52	600	89	1.5	#178 Low Mass	4	
0044.COMP	10	03:03	02:44:03.2	+53:05:52	600	89	1.5	0 Calibration	4	
0045.lamost091	480	03:03	02:44:03.2	+53:05:52	600	89	1.5	#178 Low Mass	4	
0046.COMP	10	03:12	02:44:03.2	+53:05:52	600	89	1.5	0 Calibration	4	
0047.lamost109	840	03:13	03:08:18.2	+51:40:12	600	89	1.5	#178 Low Mass	4	
0048.COMP	10	03:28	03:08:18.2	+51:40:12	600	89	1.5	0 Calibration	4	
0049.lamost109	840	03:28	03:08:18.2	+51:40:12	600	90	1.5	#178 Low Mass	4	
0050.COMP	10	03:42	03:08:18.2	+51:40:12	600	90	1.5	0 Calibration	4	
0051.lamost109	840	03:43	03:08:18.2	+51:40:12	600	90	1.5	#178 Low Mass	4	
0052.COMP	10	03:57	03:08:18.2	+51:40:12	600	89	1.5	0 Calibration	4	
0053.lamost109	840	03:58	03:08:18.2	+51:40:12	600	89	1.5	#178 Low Mass	4	
0054.COMP	10	04:12	03:08:18.2	+51:40:12	600	89	1.5	0 Calibration	4	
0055.lmwd526	1200	04:18	07:26:59.5	+33:17:09	600	89	1.5	#178 Low Mass	4	
0056.COMP	10	04:38	07:26:59.5	+33:17:09	600	89	1.5	0 Calibration	4	
0057.lmwd526	1200	04:39	07:26:59.5	+33:17:09	600	89	1.5	#178 Low Mass	4	
0058.COMP	10	04:59	07:26:59.5	+33:17:09	600	89	1.5	0 Calibration	4	
0059.lmwd526	1200	05:00	07:26:59.5	+33:17:09	600	90	1.5	#178 Low Mass	4	clouds moving in
0060.COMP	10	05:20	07:26:59.5	+33:17:09	600	90	1.5	0 Calibration	4	
0061.lmwd037	1620	05:23	07:56:10.7	+67:04:25	600	88	1.5	#178 Low Mass	4	clouds heavy, closing
0062.COMP	10	05:51	07:56:10.7	+67:04:25	600	88	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0063.DARK	900	05:58	07:56:10.7	+67:04:25	600	88	1.5	0 Calibration	4x5	
0064-0067.DARK	900	07:12	07:56:10.7	+67:04:25	600	88	1.5	0 Calibration	4	
0068.DARK	900	07:27	07:56:10.7	+67:04:25	600	88	1.5	0 Calibration	2	
0069.TEST	5	08:00	07:56:10.7	+67:04:25	300	88	3.0	#178 Low Mass	4	GRATING CHANGE
0070.TEST	5	08:01	07:56:10.7	+67:04:25	300	88	3.0	#178 Low Mass	4	
0071.TEST	5	08:02	07:56:10.7	+67:04:25	300	88	3.0	#178 Low Mass	4	opening
0072.Feige34	240	08:06	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	clouds lighter
0073.COMP	10	08:11	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0074.HD84937	40	08:13	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0075.COMP	10	08:14	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0076.A01700.1	1500	08:24	10:37:56.5	+22:25:04	300	90	3.0	#216 Local Com	2	
0077.COMP	10	08:49	10:37:56.5	+22:25:04	300	90	3.0	0 Calibration	2	
0078.A00799.1	900	08:51	10:36:25.0	+30:47:50	300	90	3.0	#216 Local Com	2	
0079.COMP	10	09:06	10:36:25.0	+30:47:50	300	90	3.0	0 Calibration	2	
0080.A01735.1	1080	09:08	10:50:55.8	+29:51:41	300	89	3.0	#216 Local Com	2	
0081.COMP	10	09:26	10:50:55.8	+29:51:41	300	89	3.0	0 Calibration	2	
0082.A00214.2	900	09:29	10:53:58.0	+23:07:43	300	109	3.0	#216 Local Com	2	
0083.COMP	10	09:45	10:53:58.0	+23:07:43	300	111	3.0	0 Calibration	2	
0084.A00223.1	1500	10:30	11:38:08.4	+20:34:33	300	90	3.0	#216 Local Com	2	
0085.COMP	10	10:56	11:38:08.4	+20:34:33	300	90	3.0	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>
0086.A01911.1	1500	10:58	14:22:42.9	+63:02:55	300	90	3.0	#216 Local Com	2	
0087.COMP	10	11:24	14:22:42.9	+63:02:55	300	90	3.0	0 Calibration	2	clouds heavy; closing
0088.FLAT	7	11:27	14:22:42.9	+63:02:55	300	90	3.0	0 Calibration	2	x15
0089-0102.FLAT	7	11:32	14:22:42.9	+63:02:55	300	90	3.0	0 Calibration	2	
0103.BIAS	0	11:34	14:22:42.9	+63:02:55	300	90	3.0	0 Calibration	2	x10
0104-0112.BIAS	0	11:36	14:22:42.9	+63:02:55	300	90	3.0	0 Calibration	2	
0113-0122.DARK	900	14:35	14:22:42.9	+63:02:55	300	90	3.0	0 Calibration	2	