

UT Date 2015-02-14 Observers IrwinColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	23:05	23:48:21.0	+31:25:29	300	88	3.0	0 Calibration	2	standard setup
0002-0005.DARK	900	00:06	23:48:21.0	+31:25:29	300	88	3.0	0 Calibration	2	
0006-0015.BIAS	0	00:40	23:48:21.0	+31:25:29	300	88	3.0	0 Calibration	4	
0016-0025.FLAT	4	00:42	23:48:21.0	+31:25:29	300	88	3.0	0 Calibration	4	
0026-0035.BIAS	0	00:44	23:48:21.0	+31:25:29	300	88	3.0	0 Calibration	2	
0036-0050.FLAT	7	00:48	23:48:21.0	+31:25:29	300	88	3.0	0 Calibration	2	
0051.HD84937	30	07:17	09:48:56.1	+13:44:39	300	88	3.0	#56 Spectropho	2	thin cloud, seeing not great
0052.COMP	10	07:18	09:48:56.1	+13:44:39	300	88	3.0	0 Calibration	2	
0053.HD84937	30	07:18	09:48:56.1	+13:44:39	300	88	3.0	#56 Spectropho	2	
0054.HD84937	30	07:19	09:48:56.1	+13:44:39	300	88	3.0	#56 Spectropho	2	
0055.Feige34	180	07:21	10:39:36.7	+43:06:09	300	88	3.0	#56 Spectropho	2	
0056.COMP	10	07:25	10:39:36.7	+43:06:09	300	83	3.0	0 Calibration	2	
0057.N3115	120	07:27	10:05:14.0	-07:43:07	300	88	3.0	#57 Velocity S	2	ADC inoperative? not seeing or hearing it.
0058.COMP	10	07:29	10:05:14.0	-07:43:07	300	88	3.0	0 Calibration	2	
0059.snASASSN-15as	1800	07:34	09:39:16.6	+06:25:49	300	10	3.0	#2 SN Observat	2	
0060.COMP	10	08:04	09:39:16.6	+06:25:49	300	10	3.0	0 Calibration	2	
0061.sn2015A	1800	08:07	09:41:15.6	+35:53:17	300	60	3.0	#2 SN Observat	2	
0062.COMP	10	08:38	09:41:15.6	+35:53:17	300	60	3.0	0 Calibration	2	
0063.snASASSN-15az	1800	08:43	11:08:37.6	-10:14:58	300	0	3.0	#2 SN Observat	2	
0064.COMP	10	09:14	11:08:37.6	-10:14:58	300	0	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0065.snASASSN-15cz	1200	09:21	11:35:24.4	+57:39:00	300	0	3.0	#220 ASASSN Tr	2	not really able to see the sn, looks like one big elliptical bl
0066.COMP	10	09:41	11:35:24.4	+57:39:00	300	-3	3.0	0 Calibration	2	
0067.snASASSN-15cz	1200	09:45	11:35:24.4	+57:39:00	300	-9	3.0	#220 ASASSN Tr	2	second attempt no better than the first
0068.snASASSN-15cz	1200	10:05	11:35:24.4	+57:39:00	300	-10	3.0	#220 ASASSN Tr	2	
0069.COMP	10	10:25	11:35:24.4	+57:39:00	300	-10	3.0	0 Calibration	2	
0070.snASASSN-14lp	600	10:29	12:45:09.1	-00:27:33	300	-9	3.0	#2 SN Observat	2	
0071.COMP	10	10:40	12:45:09.1	-00:27:33	300	-9	3.0	0 Calibration	2	
0072.snASASSN-14lp	600	10:41	12:45:09.1	-00:27:33	300	-9	3.0	#2 SN Observat	2	
0073.snASASSN-14lp	600	10:51	12:45:09.1	-00:27:33	300	-10	3.0	#2 SN Observat	2	
0074.COMP	10	11:01	12:45:09.1	-00:27:33	300	-10	3.0	0 Calibration	2	
0075.SN14021678	1200	11:07	14:02:16.8	+54:26:20	300	11	3.0	#220 ASASSN Tr	2	nova? saved a couple of tele grabs
0076.COMP	10	11:27	14:02:16.8	+54:26:20	300	11	3.0	0 Calibration	2	
0077.COMP	10	11:36	12:48:15.2	+17:46:26	300	40	3.0	0 Calibration	2	
0078.snASASSN-14li	1200	11:37	12:48:15.2	+17:46:26	300	40	3.0	#2 SN Observat	2	
0079.snASASSN-14li	1200	11:57	12:48:15.2	+17:46:26	300	40	3.0	#2 SN Observat	2	
0080.COMP	10	12:17	12:48:15.2	+17:46:26	300	40	3.0	0 Calibration	2	
0081.snASASSN-15cq	1800	12:21	13:23:48.5	+43:17:59	300	110	3.0	#2 SN Observat	2	
0082.COMP	10	12:52	13:23:48.5	+43:17:59	300	110	3.0	0 Calibration	2	
0083.BDp332642	180	12:54	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0084.COMP	10	12:58	15:51:59.9	+32:56:54	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>
0085.BDp262606	90	12:59	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0086.COMP	10	13:01	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0087.BDp262606	90	13:02	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0088-0097.BIAS	0	13:07	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	4	
0098-0107.FLAT	4	13:09	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	4	
0108-0117.BIAS	0	13:12	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0118-0132.FLAT	7	13:16	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0133-0137.DARK	900	14:26	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0138-0142.DARK	900	15:42	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	4	

UT Date 2015-02-15 Observers IrwinColl. Focus 1320 Grating/Grism 300

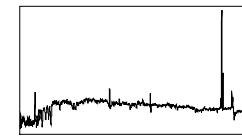
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0001.BIAS	0	23:20	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0002.COMP	10	23:21	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0003-0007.DARK	900	00:30	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0008-0017.BIAS	0	01:01	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	4	
0018-0027.FLAT	4	01:03	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	4	
0028-0037.BIAS	0	01:05	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0038-0052.FLAT	7	01:10	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0053-0057.DARK	900	11:19	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0058-0062.DARK	900	12:36	01:27:12.5	+31:25:52	300	90	3.0	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>
0001-0005.DARK	900	22:59	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0006-0010.DARK	900	00:16	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	4	
0011-0020.BIAS	0	00:49	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	4	
0021-0030.FLAT	4	00:51	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	4	
0031-0040.BIAS	0	00:53	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0041-0055.FLAT	7	00:58	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0056.COMP	10	05:35	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0057-0061.DARK	900	12:09	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0062-0066.DARK	900	13:25	01:27:12.5	+31:25:52	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
0001-0005.DARK	900	23:31	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0006-0015.BIAS	0	00:28	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	4	
0016-0025.FLAT	4	00:30	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	4	
0026-0035.BIAS	0	00:32	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0036-0050.FLAT	7	00:37	01:27:12.5	+31:25:52	300	90	3.0	0 Calibration	2	
0051.HD84937	30	08:08	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	seeing is really bad
0052.COMP	10	08:09	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0053.HD84937	30	08:10	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0054.HD84937	30	08:11	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0055.Feige34	240	08:13	10:39:36.7	+43:06:09	300	90	3.0	#56 Spectropho	2	
0056.COMP	10	08:17	10:39:36.7	+43:06:09	300	90	3.0	0 Calibration	2	
0057.N3377	240	08:19	10:47:42.4	+13:59:08	300	90	3.0	#57 Velocity S	2	
0058.COMP	10	08:23	10:47:42.4	+13:59:08	300	90	3.0	0 Calibration	2	
0059.snASASSN-15as	1200	08:27	09:39:16.6	+06:25:49	300	90	3.0	#220 ASASSN Tr	2	
0060.COMP	10	08:47	09:39:16.6	+06:25:49	300	90	3.0	0 Calibration	2	
0061.snASASSN-15as	1200	08:49	09:39:16.6	+06:25:49	300	90	3.0	#220 ASASSN Tr	2	
0062.COMP	10	09:09	09:39:16.6	+06:25:49	300	90	3.0	0 Calibration	2	
0063.snJ10234760	1200	09:12	10:23:47.6	+33:48:48	300	90	3.0	#2 SN Observat	2	tele grab saved
0064.COMP	10	09:33	10:23:47.6	+33:48:48	300	90	3.0	0 Calibration	2	
0065.snASASSN-15cz	1800	09:44	11:35:24.4	+57:39:00	300	-10	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.COMP	10	10:14	11:35:24.4	+57:39:00	300	-10	3.0	0 Calibration	2	
0067.snASASSN-14lp	600	10:18	12:45:09.1	-00:27:33	300	-10	3.0	#220 ASASSN Tr	2	
0068.snASASSN-14lp	600	10:28	12:45:09.1	-00:27:33	300	-10	3.0	#220 ASASSN Tr	2	
0069.COMP	10	10:38	12:45:09.1	-00:27:33	300	-10	3.0	0 Calibration	2	
0070.snASASSN-15cq	1200	10:42	13:23:48.5	+43:17:59	300	110	3.0	#2 SN Observat	2	oops ruined it
0071.COMP	10	11:02	13:23:48.5	+43:17:59	300	110	3.0	0 Calibration	2	
0072.snASASSN-15cq	1200	11:03	13:23:48.5	+43:17:59	300	110	3.0	#2 SN Observat	2	
0073.COMP	10	11:23	13:23:48.5	+43:17:59	300	110	3.0	0 Calibration	2	
0074.snASASSN-15ba	1500	11:27	14:04:55.1	+08:55:15	300	110	3.0	#220 ASASSN Tr	2	
0075.COMP	10	11:52	14:04:55.1	+08:55:15	300	109	3.0	0 Calibration	2	
0076.snASASSN-15bd	1500	11:57	15:54:38.3	+16:36:38	300	0	3.0	#220 ASASSN Tr	2	
0077.COMP	10	12:22	15:54:38.3	+16:36:38	300	0	3.0	0 Calibration	2	
0078.snASASSN-15db	600	12:24	15:46:58.7	+17:53:03	300	1	3.0	#220 ASASSN Tr	2	
0079.COMP	10	12:34	15:46:58.7	+17:53:03	300	1	3.0	0 Calibration	2	
0080.snASASSN-15db	600	12:35	15:46:58.7	+17:53:03	300	0	3.0	#220 ASASSN Tr	2	
0081.COMP	10	12:46	15:46:58.7	+17:53:03	300	0	3.0	0 Calibration	2	
0082.BDp332642	180	12:48	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0083.COMP	10	12:51	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0084.BDp262606	90	12:53	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0085.COMP	10	12:55	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	

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0086.BDp262606	90	12:56	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0087.BDp262606	90	12:58	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0088.COMP	10	12:59	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0089-0098.BIAS	0	13:05	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	4	
0099-0108.FLAT	4	13:07	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	4	
0109-0118.BIAS	0	13:09	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	2	
0119-0133.FLAT	7	13:14	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	2	
0134-0138.DARK	900	14:27	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	2	
0139-0142.DARK	900	15:28	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	4	

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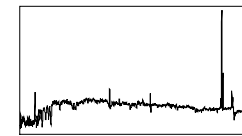
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	00:54	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	4	standard setup
0002-0010.BIAS	0	00:56	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	4	
0011-0020.FLAT	4	00:58	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	4	
0021-0030.BIAS	0	01:00	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	2	
0031-0045.FLAT	7	01:04	13:42:11.6	+28:22:38	300	90	3.0	0 Calibration	2	
0046.sky	10	01:31	04:00:00.0	+31:40:00	300	90	3.0	#57 Velocity S	2	
0047.sky	12	01:32	04:00:00.0	+31:40:00	300	90	3.0	#57 Velocity S	2	
0048.sky	14	01:32	04:00:00.0	+31:40:00	300	90	3.0	#57 Velocity S	2	
0049.COMP	10	01:33	04:00:00.0	+31:40:00	300	90	3.0	0 Calibration	2	
0050.HD19445	10	02:17	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0051.COMP	10	02:18	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	
0052.HD19445	20	02:20	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0053.HD19445	20	02:21	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0054.HD19445	20	02:21	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0055.G191B2B	300	02:24	05:05:30.6	+52:49:52	300	90	3.0	#56 Spectropho	2	
0056.COMP	10	02:29	05:05:30.6	+52:49:52	300	88	3.0	0 Calibration	2	
0057.EGAnd	1	02:32	00:44:37.0	+40:40:47	300	88	3.0	#12 Symbiotic	2	
0058.EGAnd	5	02:32	00:44:37.0	+40:40:47	300	88	3.0	#12 Symbiotic	2	
0059.EGAnd	10	02:32	00:44:37.0	+40:40:47	300	88	3.0	#12 Symbiotic	2	
0060.COMP	10	02:33	00:44:37.0	+40:40:47	300	88	3.0	0 Calibration	2	

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0061.AXPer	4	02:34	01:36:23.0	+54:15:03	300	88	3.0	#12 Symbiotic	2	
0062.AXPer	30	02:34	01:36:23.0	+54:15:03	300	88	3.0	#12 Symbiotic	2	
0063.AXPer	90	02:35	01:36:23.0	+54:15:03	300	88	3.0	#12 Symbiotic	2	
0064.COMP	10	02:37	01:36:23.0	+54:15:03	300	88	3.0	0 Calibration	2	
0065.snASASSN-15ak	900	02:42	00:12:01.6	+26:23:37	300	110	3.0	#220 ASASSN Tr	2	
0066.COMP	10	02:57	00:12:01.6	+26:23:37	300	110	3.0	0 Calibration	2	
0067.snASASSN15ar	1800	03:02	02:28:20.4	+10:23:04	300	20	3.0	#2 SN Observat	2	
0068.COMP	10	03:33	02:28:20.4	+10:23:04	300	20	3.0	0 Calibration	2	
0069.NGC1700	300	03:37	04:56:56.3	-04:51:57	300	89	3.0	#57 Velocity S	2	
0070.COMP	10	03:42	04:56:56.3	-04:51:57	300	89	3.0	0 Calibration	2	
0071.GITau	240	03:45	04:33:34.0	+24:21:18	300	58	3.0	#12 Symbiotic	2	
0072.COMP	10	03:50	04:33:34.0	+24:21:18	300	58	3.0	0 Calibration	2	
0073.GKTau	240	03:51	04:33:34.5	+24:21:07	300	58	3.0	#12 Symbiotic	2	
0074.COMP	10	03:55	04:33:34.5	+24:21:07	300	58	3.0	0 Calibration	2	
0075.BGGem	300	03:58	06:03:31.0	+27:41:50	300	-9	3.0	#12 Symbiotic	2	
0076.COMP	10	04:04	06:03:31.0	+27:41:50	300	-9	3.0	0 Calibration	2	
0077.snJ07285387	1200	04:06	07:28:53.9	+33:49:11	300	-10	3.0	#2 SN Observat	2	see tele grab 0006.2015.0217
0078.COMP	10	04:27	07:28:53.9	+33:49:11	300	-10	3.0	0 Calibration	2	
0079.019_WHSS074844	1200	04:31	07:48:44.9	+46:47:41	300	89	3.0	#221 Bright Hi	2	
0080.COMP	10	04:52	07:48:44.9	+46:47:41	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
0081.020_WHSS074959	1200	04:53	07:49:59.4	+26:04:44	300	89	3.0	#221 Bright Hi	2	
0082.COMP	10	05:14	07:49:59.4	+26:04:44	300	89	3.0	0 Calibration	2	
0083.SS129	300	05:18	07:32:45.0	-26:49:16	300	1	3.0	#12 Symbiotic	2	
0084.SS129	300	05:23	07:32:45.0	-26:49:16	300	0	3.0	#12 Symbiotic	2	
0085.COMP	10	05:28	07:32:45.0	-26:49:16	300	0	3.0	0 Calibration	2	
0086.BXMon	15	05:31	07:25:23.0	-03:35:51	300	0	3.0	#12 Symbiotic	2	
0087.BXMon	180	05:31	07:25:23.0	-03:35:51	300	0	3.0	#12 Symbiotic	2	
0088.COMP	10	05:35	07:25:23.0	-03:35:51	300	0	3.0	0 Calibration	2	
0089.AWI000050r	780	05:39	08:05:47.9	+52:46:28	300	0	3.0	#219 Disk Dete	2	
0090.COMP	10	05:52	08:05:47.9	+52:46:28	300	0	3.0	0 Calibration	2	
0091.021_WHSS075006	1500	05:56	07:50:07.0	+19:55:46	300	9	3.0	#221 Bright Hi	2	
0092.COMP	10	06:21	07:50:07.0	+19:55:46	300	9	3.0	0 Calibration	2	
0093.snBRUTUS7069_8	1200	06:25	10:35:29.8	+34:34:26	300	105	3.0	#2 SN Observat	2	
0094.COMP	10	06:45	10:35:29.8	+34:34:26	300	105	3.0	0 Calibration	2	
0095.snASASSN15de	1200	06:48	11:28:49.6	+29:54:53	300	74	3.0	#2 SN Observat	2	
0096.COMP	10	07:09	11:28:49.6	+29:54:53	300	74	3.0	0 Calibration	2	
0097.snASASSN15cz	1200	07:15	11:35:24.4	+57:39:00	300	-11	3.0	#2 SN Observat	2	
0098.COMP	10	07:35	11:35:24.4	+57:39:00	300	-11	3.0	0 Calibration	2	
0099.FLAT	2	07:40	11:35:24.4	+57:39:00	300	90	5.0	0 Calibration	4	throughput 5 sec binby4
0100-0113.FLAT	2	07:42	11:35:24.4	+57:39:00	300	90	5.0	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0114.HD84937	10	07:45	09:48:56.1	+13:44:39	300	90	5.0	#56 Spectropho	4	seeing got softer while I was changing slits
0115.COMP	5	07:45	09:48:56.1	+13:44:39	300	90	5.0	0 Calibration	4	
0116.HD84937	10	07:46	09:48:56.1	+13:44:39	300	90	5.0	#56 Spectropho	4	
0117.HD84937	10	07:46	09:48:56.1	+13:44:39	300	90	5.0	#56 Spectropho	4	
0118.HD84937	10	07:46	09:48:56.1	+13:44:39	300	90	5.0	#56 Spectropho	4	
0119.HD84937	10	07:47	09:48:56.1	+13:44:39	300	90	5.0	#56 Spectropho	4	
0120.Feige34	120	07:50	10:39:36.7	+43:06:09	300	90	5.0	#56 Spectropho	4	
0121.COMP	5	07:52	10:39:36.7	+43:06:09	300	90	5.0	0 Calibration	4	
0122.Feige34	120	07:53	10:39:36.7	+43:06:09	300	90	5.0	#56 Spectropho	4	
0123.Feige34	120	07:55	10:39:36.7	+43:06:09	300	90	5.0	#56 Spectropho	4	
0124.Feige34	120	07:57	10:39:36.7	+43:06:09	300	90	5.0	#56 Spectropho	4	
0125.Feige34	120	07:59	10:39:36.7	+43:06:09	300	89	5.0	#56 Spectropho	4	
0126.COMP	5	08:07	10:39:36.7	+43:06:09	600	89	1.5	0 Calibration	4	test
0127.COMP	5	08:08	10:39:36.7	+43:06:09	600	89	1.5	0 Calibration	4	test
0128.COMP	5	08:10	10:39:36.7	+43:06:09	600	89	1.5	0 Calibration	4	test
0129.COMP	5	08:11	10:39:36.7	+43:06:09	600	89	1.5	0 Calibration	4	test dang out of practice
0130.FLAT	12	08:12	10:39:36.7	+43:06:09	600	89	1.5	0 Calibration	4	brown 1.5 sec 600 tilt 445 binby4
0131-0144.FLAT	12	08:17	10:39:36.7	+43:06:09	600	89	1.5	0 Calibration	4	
0145.Feige34	300	08:19	10:39:36.7	+43:06:09	600	90	1.5	#56 Spectropho	4	
0146.COMP	10	08:25	10:39:36.7	+43:06:09	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
0147.j1131m07	720	08:28	11:31:43.5	-07:42:20	600	90	1.5	#178 Low Mass	4	
0148.COMP	10	08:40	11:31:43.5	-07:42:20	600	90	1.5	0 Calibration	4	
0149.j1131m07	720	08:41	11:31:43.5	-07:42:20	600	90	1.5	#178 Low Mass	4	
0150.COMP	10	08:53	11:31:43.5	-07:42:20	600	90	1.5	0 Calibration	4	
0151.j1131m07	720	08:54	11:31:43.5	-07:42:20	600	90	1.5	#178 Low Mass	4	
0152.COMP	10	09:07	11:31:43.5	-07:42:20	600	90	1.5	0 Calibration	4	
0153.j1131m07	720	09:09	11:31:43.5	-07:42:20	600	90	1.5	#178 Low Mass	4	
0154.COMP	10	09:21	11:31:43.5	-07:42:20	600	90	1.5	0 Calibration	4	
0155.j1131m07	720	09:22	11:31:43.5	-07:42:20	600	90	1.5	#178 Low Mass	4	
0156.COMP	10	09:34	11:31:43.5	-07:42:20	600	90	1.5	0 Calibration	4	
0157.bcand537	1200	09:44	11:30:56.6	+12:49:51	600	50	1.5	#178 Low Mass	4	
0158.COMP	10	10:04	11:30:56.6	+12:49:51	600	50	1.5	0 Calibration	4	
0159.bcand537	1200	10:05	11:30:56.6	+12:49:51	600	50	1.5	#178 Low Mass	4	
0160.COMP	10	10:25	11:30:56.6	+12:49:51	600	50	1.5	0 Calibration	4	
0161.bcand537	1200	10:26	11:30:56.6	+12:49:51	600	50	1.5	#178 Low Mass	4	
0162.COMP	10	10:46	11:30:56.6	+12:49:51	600	50	1.5	0 Calibration	4	
0163.bcand537	1200	10:47	11:30:56.6	+12:49:51	600	50	1.5	#178 Low Mass	4	
0164.COMP	10	11:08	11:30:56.6	+12:49:51	600	50	1.5	0 Calibration	4	
0165.COMP	5	11:13	11:30:56.6	+12:49:51	300	90	3.0	0 Calibration	2	test
0166.COMP	5	11:14	11:30:56.6	+12:49:51	300	90	3.0	0 Calibration	2	test

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0167.RWHya	2	11:18	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	standard setup
0168.RWHya	10	11:18	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0169.RWHya	20	11:19	13:34:18.0	-25:22:51	300	90	3.0	#12 Symbiotic	2	
0170.COMP	10	11:19	13:34:18.0	-25:22:51	300	90	3.0	0 Calibration	2	
0171.TXCVn	10	11:22	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0172.TXCVn	30	11:22	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0173.COMP	10	11:23	12:44:42.0	+36:45:48	300	90	3.0	0 Calibration	2	
0174.snASASSN15dd	1200	11:26	15:43:59.1	+19:12:41	300	1	3.0	#2 SN Observat	2	
0175.COMP	10	11:46	15:43:59.1	+19:12:41	300	1	3.0	0 Calibration	2	
0176.snASASSN-15db	1200	11:48	15:46:58.7	+17:53:03	300	1	3.0	#220 ASASSN Tr	2	
0177.COMP	10	12:09	15:46:58.7	+17:53:03	300	1	3.0	0 Calibration	2	
0178.snASASSN15dc	1200	12:11	15:01:30.8	-00:32:24	300	1	3.0	#2 SN Observat	2	
0179.COMP	10	12:31	15:01:30.8	-00:32:24	300	1	3.0	0 Calibration	2	
0180.TCrB	15	12:35	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0181.TCrB	60	12:35	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0182.COMP	10	12:37	15:59:30.0	+25:55:12	300	90	3.0	0 Calibration	2	
0183.AGDra	2	12:42	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0184.AGDra	15	12:42	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0185.AGDra	60	12:42	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0186.COMP	10	12:44	16:01:41.0	+66:48:10	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>
0187.N5846	150	12:46	15:06:29.3	+01:36:20	300	90	3.0	#57 Velocity S	2	
0188.COMP	10	12:49	15:06:29.3	+01:36:20	300	90	3.0	0 Calibration	2	
0189.BDp332642	150	12:52	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0190.COMP	10	12:55	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0191.BDp262606	90	12:56	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0192.COMP	10	12:58	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0193.BDp262606	90	12:59	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0194-0203.BIAS	0	13:05	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	4	
0204-0213.FLAT	4	13:07	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	4	
0214-0223.BIAS	0	13:09	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0224-0238.FLAT	7	13:13	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0239-0243.DARK	900	14:23	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0244-0247.DARK	900	15:24	14:49:02.4	+25:42:09	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
0002-0003.BIAS	0	00:13	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0004.fastfoc	10	00:15	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	standard setup
0005.fastfoc	10	00:15	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0006.fastfoc	10	00:16	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0007.fastfoc	10	00:16	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0008.fastfoc	10	00:17	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0009.fastfoc	10	00:17	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0010.fastfoc	10	00:18	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0011.fastfoc	10	00:18	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0012.fastfoc	10	00:19	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0013.fastfoc	10	00:19	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0014.fastfoc	10	00:20	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0015.fastfoc	10	00:20	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0016.fastfoc	10	00:20	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0017.fastfoc	10	00:21	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0018.fastfoc	10	00:21	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	best foc 1325
0019.COMP	5	00:31	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	2	test
0020.COMP	5	00:33	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	2	test
0021.COMP	5	00:34	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	2	test
0022.fastfoc	10	00:38	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	newton 2 sec 600 tilt 752 binby2

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0023.fastfoc	10	00:38	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0024.fastfoc	10	00:39	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0025.fastfoc	10	00:39	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0026.fastfoc	10	00:40	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0027.fastfoc	10	00:40	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0028.fastfoc	10	00:40	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0029.fastfoc	10	00:41	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0030.fastfoc	10	00:41	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0031.fastfoc	10	00:42	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0032.fastfoc	10	00:42	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0033.fastfoc	10	00:43	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0034.fastfoc	10	00:43	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0035.fastfoc	10	00:44	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	
0036.fastfoc	10	00:44	14:49:02.4	+25:42:09	600	90	2.0	#56 Spectropho	2	best foc 1360, set
0037-0051.BIAS	0	00:56	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	4	
0052-0066.BIAS	0	01:00	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	2	
0067-0079.FLAT	12	01:06	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	2	
0080.FLAT	12	01:07	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	2	opened late
0081.FLAT	12	01:07	14:49:02.4	+25:42:09	600	90	2.0	0 Calibration	2	conditions really losy
0082.Hiltner600	150	05:21	06:45:13.4	+02:08:15	600	95	2.0	#56 Spectropho	2	weak

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0083.COMP	10	05:24	06:45:13.4	+02:08:15	600	95	2.0	0 Calibration	2	
0084.Hiltner600	449	05:25	06:45:13.4	+02:08:15	600	95	2.0	#56 Spectropho	2	
0085.LSPMJ0605+6049	420	05:37	06:05:29.4	+60:49:23	600	0	2.0	222 M dwarfs	2	
0086.COMP	10	05:44	06:05:29.4	+60:49:23	600	0	2.0	0 Calibration	2	
0087.LSPMJ0619+6605	1598	05:47	06:19:50.5	+66:05:31	600	0	2.0	222 M dwarfs	2	junk very cloudy
0088.COMP	10	06:14	06:19:50.5	+66:05:31	600	0	2.0	0 Calibration	2	
0089.LSPMJ0857+1924	450	06:35	08:57:15.4	+19:24:18	600	90	2.0	222 M dwarfs	2	
0090.COMP	10	06:43	08:57:15.4	+19:24:18	600	90	2.0	0 Calibration	2	
0091.COMP	5	07:30	09:09:38.7	+08:26:16	300	90	3.0	0 Calibration	2	test
0092.COMP	5	07:32	09:09:38.7	+08:26:16	300	90	3.0	0 Calibration	2	test
0093.HD84937	30	07:35	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	standard setup
0094.COMP	10	07:36	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0095.HD84937	30	07:37	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0096.HD84937	30	07:37	09:48:56.1	+13:44:39	300	90	3.0	#56 Spectropho	2	
0097.COMP	10	07:38	09:48:56.1	+13:44:39	300	90	3.0	0 Calibration	2	
0098.Feige34	300	07:40	10:39:36.7	+43:06:09	300	89	3.0	#56 Spectropho	2	
0099.COMP	10	07:46	10:39:36.7	+43:06:09	300	89	3.0	0 Calibration	2	
0100.N3377	300	07:48	10:47:42.4	+13:59:08	300	89	3.0	#57 Velocity S	2	
0101.COMP	10	07:53	10:47:42.4	+13:59:08	300	89	3.0	0 Calibration	2	
0102.snASASSN15df	1800	07:58	10:35:29.8	+34:34:26	300	104	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0103.COMP	10	08:28	10:35:29.8	+34:34:26	300	104	3.0	0 Calibration	2	
0104.snASASSN15de	1200	08:31	11:28:49.6	+29:54:53	300	75	3.0	#2 SN Observat	2	
0105.COMP	10	08:51	11:28:49.6	+29:54:53	300	75	3.0	0 Calibration	2	
0106.snASASSN15de	1200	08:52	11:28:49.6	+29:54:53	300	75	3.0	#2 SN Observat	2	
0107.COMP	10	09:12	11:28:49.6	+29:54:53	300	75	3.0	0 Calibration	2	
0108.AWI0005dm9	12	09:14	09:33:57.9	+45:17:11	300	75	3.0	#219 Disk Dete	2	
0109.COMP	10	09:15	09:33:57.9	+45:17:11	300	75	3.0	0 Calibration	2	
0110.AWI0005dm9	30	09:15	09:33:57.9	+45:17:11	300	75	3.0	#219 Disk Dete	2	
0111.AWI0005dlh	120	09:18	09:00:45.5	+38:16:23	300	75	3.0	#219 Disk Dete	2	
0112.COMP	10	09:20	09:00:45.5	+38:16:23	300	75	3.0	0 Calibration	2	
0113-0122.BIAS	0	11:59	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	4	
0123-0132.FLAT	4	12:01	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	4	
0133-0142.BIAS	0	12:03	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	2	
0143-0157.FLAT	7	12:08	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	2	
0158-0162.DARK	900	13:31	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	2	
0163-0167.DARK	900	14:47	09:00:45.5	+38:16:23	300	89	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	00:47	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	4	standard setup
0002-0010.BIAS	0	00:48	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	4	
0011-0020.FLAT	4	00:50	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	4	
0021-0030.BIAS	0	00:52	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	2	
0031-0045.FLAT	7	00:57	09:00:45.5	+38:16:23	300	89	3.0	0 Calibration	2	
0046.HD19445	10	02:20	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	2	
0047.COMP	10	02:20	03:08:25.6	+26:19:51	300	89	3.0	0 Calibration	2	
0048.HD19445	25	02:21	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	2	
0049.HD19445	25	02:22	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	2	
0050.HD19445	25	02:23	03:08:25.6	+26:19:51	300	89	3.0	#56 Spectropho	2	
0051.AWI00055sg	120	02:28	00:13:56.6	+75:24:10	300	90	3.0	#219 Disk Dete	2	
0052.COMP	10	02:30	00:13:56.6	+75:24:10	300	90	3.0	0 Calibration	2	
0053.AWI0005mrj	900	02:37	00:19:59.4	+52:34:54	300	90	3.0	#219 Disk Dete	2	
0054.COMP	10	02:53	00:19:59.4	+52:34:54	300	90	3.0	0 Calibration	2	
0055.AWI0005w5f	240	02:56	00:29:30.2	+43:14:16	300	90	3.0	#219 Disk Dete	2	
0056.COMP	10	03:00	00:29:30.2	+43:14:16	300	90	3.0	0 Calibration	2	
0057.AWI0000x96	362	03:02	00:42:02.6	+63:32:06	300	90	3.0	#219 Disk Dete	2	
0058.COMP	10	03:09	00:42:02.6	+63:32:06	300	90	3.0	0 Calibration	2	
0059.AWI0005yix	720	03:11	01:03:36.7	+39:56:14	300	90	3.0	#219 Disk Dete	2	
0060.AWI0005yix	10	03:24	01:03:36.7	+39:56:14	300	90	3.0	#219 Disk Dete	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0061.AWI0005w5z	60	03:26	01:03:41.3	+44:03:59	300	90	3.0	#219 Disk Dete	2	
0062.COMP	10	03:27	01:03:41.3	+44:03:59	300	90	3.0	0 Calibration	2	
0063.AWI0005w5z	240	03:28	01:03:41.3	+44:03:59	300	90	3.0	#219 Disk Dete	2	
0064.AWI0005yj7	454	03:34	01:32:22.9	+40:15:20	300	90	3.0	#219 Disk Dete	2	
0065.COMP	10	03:42	01:32:22.9	+40:15:20	300	90	3.0	0 Calibration	2	
0066.AWI0004ne7	60	03:44	01:39:30.3	+57:09:36	300	90	3.0	#219 Disk Dete	2	
0067.COMP	10	03:45	01:39:30.3	+57:09:36	300	90	3.0	0 Calibration	2	
0068.NGC1700	300	03:54	04:56:56.3	-04:51:57	300	90	3.0	#57 Velocity S	2	
0069.COMP	10	03:59	04:56:56.3	-04:51:57	300	90	3.0	0 Calibration	2	
0070.G191B2B	450	04:02	05:05:30.6	+52:49:52	300	90	3.0	#56 Spectropho	2	
0071.COMP	10	04:10	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0072.snJ07285387	1246	04:15	07:28:53.9	+33:49:11	300	-10	3.0	#2 SN Observat	2	psf nasty coma tail along slit
0073.COMP	10	04:36	07:28:53.9	+33:49:11	300	-10	3.0	0 Calibration	2	
0074.BIAS	0	04:46	07:28:53.9	+33:49:11	300	-10	3.0	0 Calibration	2	
0075.snJ07285387	1200	04:47	07:28:53.9	+33:49:11	300	-10	3.0	#2 SN Observat	2	
0076.COMP	10	05:08	07:28:53.9	+33:49:11	300	-10	3.0	0 Calibration	2	
0077.sn2015A	1800	05:15	09:41:15.6	+35:53:17	300	59	3.0	#2 SN Observat	2	
0078.COMP	10	05:46	09:41:15.6	+35:53:17	300	59	3.0	0 Calibration	2	
0079.snASASSN15df	1800	05:50	10:35:29.8	+34:34:26	300	104	3.0	#2 SN Observat	2	
0080.COMP	10	06:20	10:35:29.8	+34:34:26	300	104	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0081.snASASSN15de	1800	06:24	11:28:49.6	+29:54:53	300	75	3.0	#2 SN Observat	2	
0082.COMP	10	06:54	11:28:49.6	+29:54:53	300	75	3.0	0 Calibration	2	
0083.snj12350637	1200	06:59	12:35:06.4	+31:14:35	300	109	3.0	#2 SN Observat	2	
0084.COMP	10	07:20	12:35:06.4	+31:14:35	300	109	3.0	0 Calibration	2	
0085.snj12350637	1200	07:20	12:35:06.4	+31:14:35	300	108	3.0	#2 SN Observat	2	
0086.COMP	10	07:41	12:35:06.4	+31:14:35	300	108	3.0	0 Calibration	2	
0087.snASASSN15cq	1800	10:37	13:23:48.5	+43:17:59	300	110	3.0	#2 SN Observat	2	
0088.COMP	10	11:07	13:23:48.5	+43:17:59	300	110	3.0	0 Calibration	2	
0089.snASASSN15dd	1800	11:13	15:43:59.1	+19:12:41	300	0	3.0	#2 SN Observat	2	
0090.COMP	10	11:43	15:43:59.1	+19:12:41	300	0	3.0	0 Calibration	2	
0091.snASASSN15bd	1446	11:45	15:54:38.3	+16:36:38	300	0	3.0	#2 SN Observat	2	cut short by clouds but seems ok
0092.COMP	10	12:10	15:54:38.3	+16:36:38	300	0	3.0	0 Calibration	2	
0093.snASASSN15db	1200	12:24	15:46:58.7	+17:53:03	300	0	3.0	#2 SN Observat	2	
0094.COMP	10	12:45	15:46:58.7	+17:53:03	300	0	3.0	0 Calibration	2	
0095-0104.BIAS	0	12:51	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	4	
0105-0114.FLAT	4	12:53	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	4	
0115-0124.BIAS	0	12:55	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	2	
0125-0139.FLAT	7	12:59	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	2	
0140-0144.DARK	900	14:08	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	2	
0145-0149.DARK	900	15:25	15:46:58.7	+17:53:03	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	00:47	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	4	standard setup
0002-0010.BIAS	0	00:48	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	4	
0011-0020.FLAT	4	00:50	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	4	
0021-0030.BIAS	0	00:53	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	2	
0031-0045.FLAT	7	00:57	15:46:58.7	+17:53:03	300	90	3.0	0 Calibration	2	
0046.snASASSN14lp	1200	10:32	12:45:09.1	-00:27:33	300	-11	3.0	#2 SN Observat	2	
0047.COMP	10	10:52	12:45:09.1	-00:27:33	300	-11	3.0	0 Calibration	2	
0048.snj12350637	1500	10:56	12:35:06.4	+31:14:35	300	-11	3.0	#2 SN Observat	2	
0049.COMP	10	11:21	12:35:06.4	+31:14:35	300	-10	3.0	0 Calibration	2	
0050.N4853	300	11:22	12:58:35.2	+27:35:47	300	-10	3.0	#57 Velocity S	2	weak
0051.COMP	10	11:28	12:58:35.2	+27:35:47	300	-10	3.0	0 Calibration	2	
0052.snASASSN15cq	1200	11:32	13:23:48.5	+43:17:59	300	110	3.0	#2 SN Observat	2	
0053.COMP	10	11:52	13:23:48.5	+43:17:59	300	110	3.0	0 Calibration	2	
0054.snASASSN15db	1200	11:56	15:46:58.7	+17:53:03	300	0	3.0	#2 SN Observat	2	
0055.COMP	10	12:17	15:46:58.7	+17:53:03	300	0	3.0	0 Calibration	2	
0056.snASASSN15dd	1200	12:19	15:43:59.1	+19:12:41	300	0	3.0	#2 SN Observat	2	
0057.COMP	10	12:39	15:43:59.1	+19:12:41	300	0	3.0	0 Calibration	2	
0058.N5846	242	12:42	15:06:29.3	+01:36:20	300	90	3.0	#57 Velocity S	2	
0059.COMP	10	12:46	15:06:29.3	+01:36:20	300	90	3.0	0 Calibration	2	
0060.BDp332642	180	12:48	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0061.COMP	10	12:51	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0062.BDp262606	90	12:53	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0063.COMP	10	12:55	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0064-0073.BIAS	0	13:00	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	
0074-0083.FLAT	4	13:02	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	
0084-0093.BIAS	0	13:04	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0094-0108.FLAT	7	13:09	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0109-0113.DARK	900	14:20	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0114-0118.DARK	900	15:36	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	4	