

UT Date 2005-12-02 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0003.DARK	900	22:18	10:39:36.8	43:06:10	300	90	3.0	#57 Velocity S	4	
0004.DARK	900	22:42	20:16:46.7	+31:28:43	300	90	3.0	#57 Velocity S	4	
0005.DARK	900	22:57	20:31:57.7	+31:28:36	300	90	3.0	#57 Velocity S	4	
0006.DARK	900	23:12	20:47:05.1	+31:28:29	300	90	3.0	#57 Velocity S	4	
0007.DARK	900	23:27	21:02:15.9	+31:28:23	300	90	3.0	#57 Velocity S	4	
0008.DARK	900	23:42	21:17:23.2	+31:28:17	300	90	3.0	#57 Velocity S	4	
0009.DARK	900	23:58	21:32:34.0	+31:28:11	300	90	3.0	#57 Velocity S	4	
0010.DARK	900	0:13	21:47:41.3	+31:28:06	300	90	3.0	#57 Velocity S	4	
0011-0020.BIAS	0	0:32	21:52:09.5	+31:28:05	300	90	3.0	#57 Velocity S	4	
0021-0029.FLAT	8	0:36	21:56:08.2	+31:28:04	300	90	3.0	#57 Velocity S	4	
0030.FLAT	8	0:36	21:56:21.5	+31:28:03	300	90	3.0	#57 Velocity S	4	
0031-0037.BIAS	0	0:39	21:59:28.0	+31:28:03	300	90	3.0	#57 Velocity S	2	
0038-0040.BIAS	0	0:40	22:00:07.1	+31:28:02	300	90	3.0	#57 Velocity S	2	
0041-0045.FLAT	16	0:42	22:02:43.4	+31:28:02	300	90	3.0	#57 Velocity S	2	
0046-0052.FLAT	16	0:46	22:06:02.8	+31:28:01	300	90	3.0	#57 Velocity S	2	
0053-0060.FLAT	16	0:50	22:09:52.4	+31:28:00	300	90	3.0	#57 Velocity S	2	
0061.BDp284211	60	1:14	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	4	
0062.BDp284211	60	1:15	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	4	
0063.COMP	5	1:16	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	4	
0064.BDp284211	60	1:18	21:51:11.1	28:51:53	300	70	3.0	#56 Spectropho	2	

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0065.BDp284211	60	1:19	21:51:11.1	28:51:53	300	70	3.0	#56 Spectropho	2	
0066.COMP	12	1:21	21:51:11.1	28:51:53	300	70	3.0	#56 Spectropho	2	
0067.3C390.3	300	1:23	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0068.3C390.3	300	1:28	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0069.3C390.3	300	1:34	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0070.COMP	12	1:39	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0071.MRK509	180	1:42	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0072.MRK509	180	1:45	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0073.COMP	12	1:49	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0074.BDp174708	25	1:51	22:11:31.4	18:05:33	300	42	3.0	#56 Spectropho	2	
0075.BDp174708	25	1:52	22:11:31.4	18:05:33	300	42	3.0	#56 Spectropho	2	
0076.BDp174708	25	1:52	22:11:31.4	18:05:33	300	42	3.0	#56 Spectropho	2	
0077.COMP	12	1:53	22:11:31.4	18:05:33	300	42	3.0	#56 Spectropho	2	
0078.Akn564	180	1:54	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0079.Akn564	180	1:58	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0080.COMP	12	2:01	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0081.N7469	120	2:03	23:03:15.7	+08:52:27	300	70	3.0	#6 AGN Monitor	2	
0082.N7469	120	2:05	23:03:15.7	+08:52:27	300	70	3.0	#6 AGN Monitor	2	
0083.COMP	12	2:08	23:03:15.7	+08:52:27	300	70	3.0	#6 AGN Monitor	2	
0084.2M19400169+3715082	900	2:10	19:40:01.6	+37:15:08	300	89	3.0	#141 Mapping t	2	row=68

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0085.COMP	12	2:25	19:40:01.6	+37:15:08	300	89	3.0	#141 Mapping t	2	
0086.2M19401064+0000567	1200	2:30	19:40:10.6	+00:00:56	300	100	3.0	#141 Mapping t	2	row=74
0087.COMP	12	2:51	19:40:10.6	+00:00:56	300	100	3.0	#141 Mapping t	2	
0088.2M21194921+5816402	1500	2:54	21:19:49.2	+58:16:40	300	60	3.0	#141 Mapping t	2	row=69
0089.COMP	12	3:19	21:19:49.2	+58:16:40	300	60	3.0	#141 Mapping t	2	
0090.2M21200030+4100006	960	3:21	21:20:00.3	+41:00:00	300	90	3.0	#141 Mapping t	2	row=70
0091.COMP	12	3:38	21:20:00.3	+41:00:00	300	90	3.0	#141 Mapping t	2	
0092.2M21211372+4244282	1500	3:39	21:21:13.7	+42:44:28	300	70	3.0	#141 Mapping t	2	row=71
0093.COMP	12	4:05	21:21:13.7	+42:44:28	300	70	3.0	#141 Mapping t	2	
0094.2M21211765+4024212	1620	4:07	21:21:17.6	+40:24:21	300	105	3.0	#141 Mapping t	2	row=74
0095.COMP	12	4:34	21:21:17.6	+40:24:21	300	105	3.0	#141 Mapping t	2	
0096.2M22473693+5318552	900	4:36	22:47:36.9	+53:18:55	300	75	3.0	#141 Mapping t	2	
0097.COMP	12	4:53	22:47:36.9	+53:18:55	300	75	3.0	#141 Mapping t	2	
0098.2M22480924+3157114	300	4:54	22:48:09.2	+31:57:11	300	90	3.0	#141 Mapping t	2	
0099.COMP	12	5:04	22:48:09.2	+31:57:11	300	90	3.0	#141 Mapping t	2	
0100.2M22482184+5301118	720	5:07	22:48:21.8	+53:01:11	300	100	3.0	#141 Mapping t	2	row=68
0101.COMP	12	5:20	22:48:21.8	+53:01:11	300	100	3.0	#141 Mapping t	2	
0102.0076_01	780	5:25	00:37:36.2	06:23:50	300	90	3.0	#160 2MACS	2	
0103.COMP	12	5:39	00:37:36.2	06:23:50	300	90	3.0	#160 2MACS	2	
0104.0076_02	1080	5:40	00:38:23.8	07:02:24	300	90	3.0	#160 2MACS	2	

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0105.COMP	12	5:58	00:38:23.8	07:02:24	300	90	3.0	#160 2MACS	2	
0106.0076_L03	1200	6:00	00:39:5.0	06:42:46	300	90	3.0	#160 2MACS	2	
0107.COMP	12	6:21	00:39:5.0	06:42:46	300	90	3.0	#160 2MACS	2	
0108.sn2005eq	1500	6:24	3:08:49.3	-07:01:59	300	12	3.0	#2 SN Observat	2	
0109.COMP	12	6:49	3:08:49.3	-07:01:59	300	12	3.0	#2 SN Observat	2	
0110.JH6887	30	6:52	05:35:21.2	-05:09:16	300	90	3.0	#112 Orion OB1	2	
0111.COMP	12	6:54	05:35:21.2	-05:09:16	300	90	3.0	#112 Orion OB1	2	
0112.JH6907	20	6:55	05:35:25.3	-05:51:08	300	70	3.0	#112 Orion OB1	2	
0113.COMP	12	6:55	05:35:25.3	-05:51:08	300	70	3.0	#112 Orion OB1	2	
0114.JH6932	40	6:57	05:35:31.3	-05:33:08	300	90	3.0	#112 Orion OB1	2	
0115.COMP	12	6:58	05:35:31.3	-05:33:08	300	90	3.0	#112 Orion OB1	2	
0116.JH7004	45	7:00	05:35:50.4	-05:28:34	300	90	3.0	#112 Orion OB1	2	
0117.COMP	12	7:02	05:35:50.4	-05:28:34	300	90	3.0	#112 Orion OB1	2	
0118.JH7055	180	7:04	05:36:04.2	+02:39:19	300	90	3.0	#112 Orion OB1	2	
0119.COMP	12	7:07	05:36:04.2	+02:39:19	300	90	3.0	#112 Orion OB1	2	
0120.JH7109	40	7:08	05:36:21.1	-00:17:15	300	90	3.0	#112 Orion OB1	2	
0121.COMP	12	7:10	05:36:21.1	-00:17:15	300	90	3.0	#112 Orion OB1	2	
0122.JH7135	180	7:11	05:36:28.5	+00:04:45	300	90	3.0	#112 Orion OB1	2	
0123.COMP	12	7:14	05:36:28.5	+00:04:45	300	90	3.0	#112 Orion OB1	2	
0124.JH7212	70	7:15	05:36:51.2	-04:25:39	300	90	3.0	#112 Orion OB1	2	

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0125.COMP	12	7:17	05:36:51.2	-04:25:39	300	90	3.0	#112 Orion OB1	2	
0126.JH7246	210	7:18	05:37:02.3	-05:36:29	300	70	3.0	#112 Orion OB1	2	
0127.COMP	12	7:22	05:37:02.3	-05:36:29	300	70	3.0	#112 Orion OB1	2	
0128.JH7248	20	7:23	05:37:02.4	-01:37:21	300	90	3.0	#112 Orion OB1	2	
0129.COMP	12	7:24	05:37:02.4	-01:37:21	300	90	3.0	#112 Orion OB1	2	
0130.JH7351	20	7:25	05:37:36.8	-02:08:17	300	90	3.0	#112 Orion OB1	2	
0131.COMP	12	7:26	05:37:36.8	-02:08:17	300	90	3.0	#112 Orion OB1	2	
0132.JH7437	23	7:27	05:38:05.2	-01:15:21	300	90	3.0	#112 Orion OB1	2	
0133.COMP	12	7:28	05:38:05.2	-01:15:21	300	90	3.0	#112 Orion OB1	2	
0134.JH7465	20	7:29	05:38:14.5	-05:25:13	300	90	3.0	#112 Orion OB1	2	
0135.COMP	12	7:29	05:38:14.5	-05:25:13	300	90	3.0	#112 Orion OB1	2	
0136.JH8119	150	7:31	05:43:02.0	-04:54:00	300	90	3.0	#112 Orion OB1	2	
0137.COMP	12	7:34	05:43:02.0	-04:54:00	300	90	3.0	#112 Orion OB1	2	
0138.JH8127	22	7:35	05:43:05.8	+05:05:04	300	90	3.0	#112 Orion OB1	2	
0139.COMP	12	7:36	05:43:05.8	+05:05:04	300	90	3.0	#112 Orion OB1	2	
0140.JH8151	18	7:38	05:43:17.5	-03:38:19	300	90	3.0	#112 Orion OB1	2	
0141.COMP	12	7:39	05:43:17.5	-03:38:19	300	90	3.0	#112 Orion OB1	2	
0142.JH8179	180	7:40	05:43:29.2	+00:04:58	300	90	3.0	#112 Orion OB1	2	
0143.COMP	12	7:43	05:43:29.2	+00:04:58	300	90	3.0	#112 Orion OB1	2	
0144.JH8179	100	7:44	05:43:29.2	+00:04:58	300	90	3.0	#112 Orion OB1	2	

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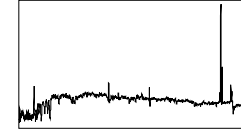
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0145.COMP	12	7:46	05:43:29.2	+00:04:58	300	90	3.0	#112 Orion OB1	2	
0146.JH8199	5	7:48	05:43:38.7	+00:45:12	300	90	3.0	#112 Orion OB1	2	
0147.COMP	12	7:48	05:43:38.7	+00:45:12	300	90	3.0	#112 Orion OB1	2	
0148.JH8199	10	7:49	05:43:38.7	+00:45:12	300	90	3.0	#112 Orion OB1	2	
0149.COMP	12	7:50	05:43:38.7	+00:45:12	300	90	3.0	#112 Orion OB1	2	
0150.JH8201	180	7:52	05:43:39.0	-05:04:02	300	90	3.0	#112 Orion OB1	2	
0151.COMP	12	7:55	05:43:39.0	-05:04:02	300	90	3.0	#112 Orion OB1	2	
0152.JH8362	40	7:57	05:44:50.5	+04:44:29	300	90	3.0	#112 Orion OB1	2	
0153.COMP	12	7:59	05:44:50.5	+04:44:29	300	90	3.0	#112 Orion OB1	2	
0154.JH8362	17	7:59	05:44:50.5	+04:44:29	300	90	3.0	#112 Orion OB1	2	
0155.COMP	12	8:00	05:44:50.5	+04:44:29	300	90	3.0	#112 Orion OB1	2	
0156.JH8585	20	8:02	05:46:43.3	+00:04:36	300	90	3.0	#112 Orion OB1	2	
0157.COMP	12	8:03	05:46:43.3	+00:04:36	300	90	3.0	#112 Orion OB1	2	
0158.JH8659	180	8:05	05:47:18.4	-02:34:55	300	90	3.0	#112 Orion OB1	2	
0159.COMP	12	8:08	05:47:18.4	-02:34:55	300	90	3.0	#112 Orion OB1	2	
0160.JH8877	27	8:09	05:48:55.5	-00:40:08	300	90	3.0	#112 Orion OB1	2	binary
0161.COMP	12	8:10	05:48:55.5	-00:40:08	300	90	3.0	#112 Orion OB1	2	
0162.JH8877	11	8:11	05:48:55.5	-00:40:08	300	90	3.0	#112 Orion OB1	2	
0163.COMP	12	8:12	05:48:55.5	-00:40:08	300	90	3.0	#112 Orion OB1	2	
0164.JH9021	150	8:14	05:50:07.1	+03:05:32	300	90	3.0	#112 Orion OB1	2	

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0165.COMP	12	8:17	05:50:07.1	+03:05:32	300	90	3.0	#112 Orion OB1	2	
0166.JH9163	9	8:18	05:51:09.7	-05:36:56	300	90	3.0	#112 Orion OB1	2	
0167.COMP	12	8:18	05:51:09.7	-05:36:56	300	90	3.0	#112 Orion OB1	2	
0168.JH9253	12	8:19	05:51:50.4	-03:38:28	300	90	3.0	#112 Orion OB1	2	
0169.JH9253	30	8:20	05:51:50.4	-03:38:28	300	90	3.0	#112 Orion OB1	2	
0170.COMP	12	8:21	05:51:50.4	-03:38:28	300	90	3.0	#112 Orion OB1	2	
0171.RedSuperGiant	10	8:29	05:23:37.5	33:31:57	300	90	3.0	#00 Sample Spe	2	
0172.COMP	12	8:30	05:23:37.5	33:31:57	300	90	3.0	#00 Sample Spe	2	
0173.hs3993	150	8:35	4:09:48.2	-8:00:46	600	90	2.0	#122 Halo Star	4	600L, 2arcsec, tilt=440
0174.COMP	10	8:38	4:09:48.2	-8:00:46	600	90	2.0	#122 Halo Star	4	
0175.hs3994	414	8:39	4:10:02.8	-6:31:02	600	90	2.0	#122 Halo Star	4	
0176.COMP	10	8:46	4:10:02.8	-6:31:02	600	90	2.0	#122 Halo Star	4	
0177.hs3995	162	8:47	4:10:04.4	-5:55:24	600	90	2.0	#122 Halo Star	4	
0178.COMP	10	8:51	4:10:04.4	-5:55:24	600	90	2.0	#122 Halo Star	4	
0179.hs3996	570	8:53	4:11:37.3	-8:37:34	600	90	2.0	#122 Halo Star	4	
0180.COMP	10	9:03	4:11:37.3	-8:37:34	600	90	2.0	#122 Halo Star	4	
0181.hs4005	540	9:04	4:15:47.1	-3:47:20	600	90	2.0	#122 Halo Star	4	
0182.COMP	10	9:13	4:15:47.1	-3:47:20	600	90	2.0	#122 Halo Star	4	
0183.hs4004	858	9:15	4:15:40.6	-8:35:38	600	90	2.0	#122 Halo Star	4	
0184.COMP	10	9:29	4:15:40.6	-8:35:38	600	90	2.0	#122 Halo Star	4	

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0185.hs4011	696	9:31	4:20:24.6	-7:46:13	600	90	2.0	#122 Halo Star	4	
0186.COMP	10	9:43	4:20:24.6	-7:46:13	600	90	2.0	#122 Halo Star	4	
0187.Hiltner600	70	9:45	06:45:13.4	02:08:14	600	90	2.0	#56 Spectropho	4	
0188.COMP	10	9:46	06:45:13.4	02:08:14	600	90	2.0	#56 Spectropho	4	
0189-0198.FLAT	24	9:52	06:45:13.4	02:08:14	600	90	2.0	#00 Sample Spe	4	
0199.sn2005el	1800	10:03	05:11:48.7	+05:11:39	300	45	3.0	#2 SN Observat	2	
0200.COMP	12	10:34	05:11:48.7	+05:11:39	300	45	3.0	#2 SN Observat	2	
0201.sn2005kf	1500	10:37	07:47:26.5	+26:55:32	300	35	3.0	#2 SN Observat	2	
0202.COMP	12	11:02	07:47:26.5	+26:55:32	300	35	3.0	#2 SN Observat	2	thin clouds....
0203.2M05292076+6038363	1200	11:05	05:29:20.7	+60:38:36	300	90	3.0	#141 Mapping t	2	
0204.COMP	12	11:26	05:29:20.7	+60:38:36	300	90	3.0	#141 Mapping t	2	
0205.2M05332744+5145018	1080	11:28	05:33:27.4	+51:45:1	300	90	3.0	#141 Mapping t	2	row=59
0206.COMP	12	11:46	05:33:27.4	+51:45:1	300	90	3.0	#141 Mapping t	2	
0207.2M05345594+1317351	1500	11:48	05:34:55.9	+13:17:34	300	81	3.0	#141 Mapping t	2	
0208.COMP	12	12:14	05:34:55.9	+13:17:34	300	81	3.0	#141 Mapping t	2	
0209.sn2005ki	1500	12:19	10:40:28.3	09:12:8	300	-20	3.0	#2 SN Observat	2	
0210.COMP	12	12:45	10:40:28.3	09:12:8	300	-20	3.0	#2 SN Observat	2	
0211.1100_08	720	12:49	10:49:46.1	22:36:25	300	90	3.0	#160 2MACS	2	clouds thickening
0212.COMP	12	13:02	10:49:46.1	22:36:25	300	90	3.0	#160 2MACS	2	
0213.Feige34	60	13:05	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	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>Bir</i>	<i>Comments</i>
0214.COMP	12	13:07	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0215.Feige34	90	13:07	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0216.COMP	12	13:09	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0217-0226.BIAS	0	13:21	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0227-0236.FLAT	8	13:27	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0237-0246.BIAS	0	13:31	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0247-0266.FLAT	16	13:43	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0267-0276.DARK	900	16:02	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	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>Bir</i>	<i>Comments</i>
0001-0010.DARK	900	0:55	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0011-0020.BIAS	0	3:18	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0021-0030.FLAT	8	3:21	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0031-0040.BIAS	0	3:24	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0041.FLAT	16	3:24	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	thick clouds...
0042-0060.FLAT	16	3:33	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0061.BDp284211	60	3:41	21:51:11.1	28:51:53	300	74	3.0	#56 Spectropho	2	
0062.BDp284211	60	3:42	21:51:11.1	28:51:53	300	74	3.0	#56 Spectropho	2	
0063.COMP	12	3:44	21:51:11.1	28:51:53	300	74	3.0	#56 Spectropho	2	
0064.BDp174708	20	3:47	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0065.BDp174708	20	3:47	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0066.BDp174708	20	3:48	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0067.COMP	12	3:49	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0068.sn2005kc	1200	3:52	22:34:07.3	+05:34:06	300	50	3.0	#2 SN Observat	2	
0069.COMP	12	4:13	22:34:07.3	+05:34:06	300	50	3.0	#2 SN Observat	2	
0070.0076_04	1200	4:18	00:39:23.2	06:35:36	300	90	3.0	#160 2MACS	2	
0071.COMP	12	4:38	00:39:23.2	06:35:36	300	90	3.0	#160 2MACS	2	
0072.0076_05	1200	4:39	00:39:26.9	06:46:42	300	90	3.0	#160 2MACS	2	
0073.COMP	12	5:00	00:39:26.9	06:46:42	300	90	3.0	#160 2MACS	2	
0074.0076_06	1200	5:01	00:39:28.7	06:43:18	300	90	3.0	#160 2MACS	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0075.COMP	12	5:21	00:39:28.7	06:43:18	300	90	3.0	#160 2MACS	2	
0076.0076_07	1200	5:22	00:39:31.8	06:41:32	300	90	3.0	#160 2MACS	2	
0077.COMP	12	5:47	00:39:31.8	06:41:32	300	90	3.0	#160 2MACS	2	
0078.0076_08	1020	5:48	00:39:38.0	07:17:45	300	90	3.0	#160 2MACS	2	
0079.COMP	12	6:05	00:39:38.0	07:17:45	300	90	3.0	#160 2MACS	2	
0080.sn2005ke	1200	6:08	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0081.COMP	12	6:29	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0082.0376_03	1020	6:33	02:45:49.4	36:59:07	300	90	3.0	#160 2MACS	2	
0083.COMP	12	6:50	02:45:49.4	36:59:07	300	90	3.0	#160 2MACS	2	
0084.0397_02	1200	6:54	02:54:6.3	15:45:39	300	100	3.0	#160 2MACS	2	clouds returning, will get again
0085.COMP	12	7:15	02:54:6.3	15:45:39	300	100	3.0	#160 2MACS	2	
0086.hs3957	360	7:26	3:39:32.3	-4:50:30	600	90	2.0	#122 Halo Star	4	2arcsec, 600L, tilt=440
0087.COMP	10	7:32	3:39:32.3	-4:50:30	600	90	2.0	#122 Halo Star	4	through clouds
0088.hs3971	480	7:36	3:51:20.1	-7:02:02	600	90	2.0	#122 Halo Star	4	
0089.COMP	10	7:44	3:51:20.1	-7:02:02	600	90	2.0	#122 Halo Star	4	
0090.hs3972	540	7:45	3:51:44.2	-7:13:21	600	90	2.0	#122 Halo Star	4	
0091.COMP	10	7:56	3:51:44.2	-7:13:21	600	90	2.0	#122 Halo Star	4	
0092.hs3973	660	7:57	3:52:48.3	-6:35:37	600	90	2.0	#122 Halo Star	4	through clouds
0093.COMP	10	8:09	3:52:48.3	-6:35:37	600	90	2.0	#122 Halo Star	4	
0094.hs3974	600	8:10	3:52:54.4	-8:45:41	600	90	2.0	#122 Halo Star	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>Bir</i>	<i>Comments</i>
0095.COMP	10	8:20	3:52:54.4	-8:45:41	600	90	2.0	#122 Halo Star	4	
0096.hs3975	600	8:21	3:53:42.6	-7:48:29	600	90	2.0	#122 Halo Star	4	
0097.COMP	10	8:31	3:53:42.6	-7:48:29	600	90	2.0	#122 Halo Star	4	
0098.hs3976	1020	8:33	3:55:35.0	-3:58:57	600	90	2.0	#122 Halo Star	4	
0099.COMP	10	8:50	3:55:35.0	-3:58:57	600	90	2.0	#122 Halo Star	4	wait out clouds...
0100.FLAT	24	9:16	4:21:12.1	-7:42:12	600	90	2.0	#160 2MACS	4	stop for clouds
0101-0109.FLAT	24	9:21	4:21:12.1	-7:42:12	600	90	2.0	#160 2MACS	4	
0110-0119.BIAS	0	13:01	12:52:15.6	27:31:52	300	90	3.0	#141 Mapping t	4	
0120-0129.FLAT	8	13:04	12:52:15.6	27:31:52	300	90	3.0	#141 Mapping t	4	
0130-0139.BIAS	0	13:10	12:52:15.6	27:31:52	300	90	3.0	#141 Mapping t	2	
0140-0159.FLAT	16	13:21	12:52:15.6	27:31:52	300	90	3.0	#141 Mapping t	2	
0160-0169.DARK	900	15:39	12:52:15.6	27:31:52	300	90	3.0	#141 Mapping t	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0006.DARK	900	23:32	12:52:15.6	27:31:52	300	90	3.0	#141 Mapping t	4	
0007.COMP	5	0:13	21:40:30.6	+31:28:09	300	90	3.0	#141 Mapping t	2	
0008-0013.BIAS	0	0:16	21:43:50.0	+31:28:08	300	90	3.0	#141 Mapping t	4	
0014-0020.BIAS	0	0:17	21:44:38.3	+31:28:07	300	90	3.0	#141 Mapping t	4	
0021-0026.FLAT	8	0:19	21:46:43.7	+31:28:07	300	90	3.0	#141 Mapping t	4	
0027-0030.FLAT	8	0:20	21:48:02.2	+31:28:06	300	90	3.0	#141 Mapping t	4	
0031.BIAS	0	0:20	21:48:19.5	+31:28:06	300	90	3.0	#141 Mapping t	2	cirrus, then clear
0032-0039.BIAS	0	0:22	21:50:03.5	+31:28:06	300	90	3.0	#141 Mapping t	2	
0040.BIAS	0	0:22	21:50:16.4	+31:28:05	300	90	3.0	#141 Mapping t	2	
0041-0045.FLAT	16	0:25	21:52:56.8	+31:28:05	300	90	3.0	#141 Mapping t	2	
0046-0052.FLAT	16	0:28	21:56:25.8	+31:28:04	300	90	3.0	#141 Mapping t	2	
0053-0058.FLAT	16	0:31	21:59:28.0	+31:28:03	300	90	3.0	#141 Mapping t	2	
0059-0061.FLAT	16	0:33	22:00:58.5	+31:28:02	300	90	3.0	#141 Mapping t	2	
0062-0066.sky	3	0:37	22:10:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0067.COMP	5	0:37	22:10:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0068.BDp174708	45	1:26	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0069.BDp174708	45	1:27	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0070.BDp174708	45	1:28	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0071.COMP	10	1:29	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0072.BDp284211	90	1:29	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0073.BDp284211	90	1:31	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0074.COMP	10	1:33	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0075.Akn564	180	1:34	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0076.Akn564	270	1:38	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0077.Akn564	270	1:42	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0078.COMP	10	1:47	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0079.N7331	240	1:48	22:34:46.9	+34:09:43	300	90	3.0	#57 Velocity S	4	
0080.COMP	5	1:56	22:34:46.9	+34:09:43	300	90	3.0	#57 Velocity S	4	
0081.MRK335	210	1:58	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0082.MRK335	210	2:02	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0083.COMP	10	2:06	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0084.2M21172198+6044000	600	2:07	21:17:21.9	+60:44:00	300	90	3.0	#141 Mapping t	4	
0085.COMP	5	2:18	21:17:21.9	+60:44:00	300	90	3.0	#141 Mapping t	4	
0086.2M21234100+3307075	300	2:19	21:23:41.0	+33:07:07	300	70	3.0	#141 Mapping t	4	
0087.COMP	5	2:25	21:23:41.0	+33:07:07	300	70	3.0	#141 Mapping t	4	
0088.2M21245306+3224024	360	2:26	21:24:53.0	+32:24:02	300	70	3.0	#141 Mapping t	4	
0089.COMP	5	2:32	21:24:53.0	+32:24:02	300	70	3.0	#141 Mapping t	4	
0090.2M21251201+3231085	540	2:33	21:25:12.0	+32:31:08	300	70	3.0	#141 Mapping t	4	
0091.COMP	5	2:42	21:25:12.0	+32:31:08	300	70	3.0	#141 Mapping t	4	
0092.2M21370325+3021218	720	2:43	21:37:03.2	+30:21:21	300	95	3.0	#141 Mapping t	4	galaxy spectrum ok

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0093.COMP	5	2:56	21:37:03.2	+30:21:21	300	95	3.0	#141 Mapping t	4	
0094.2M21362953+1249093	330	2:57	21:36:29.5	+12:49:09	300	95	3.0	#141 Mapping t	4	
0095.COMP	5	3:03	21:36:29.5	+12:49:09	300	95	3.0	#141 Mapping t	4	
0096.2M21430594+1437547	360	3:03	21:43:05.9	+14:37:54	300	95	3.0	#141 Mapping t	4	
0097.COMP	5	3:10	21:43:05.9	+14:37:54	300	95	3.0	#141 Mapping t	4	
0098.2M21445731+1534503	420	3:11	21:44:57.3	+15:34:50	300	100	3.0	#141 Mapping t	4	
0099.COMP	5	3:18	21:44:57.3	+15:34:50	300	100	3.0	#141 Mapping t	4	
0100.sn2005hk	1500	3:20	00:27:50.8	-01:11:52	300	14	3.0	#2 SN Observat	2	
0101.COMP	10	3:46	00:27:50.8	-01:11:52	300	14	3.0	#2 SN Observat	2	
0102.test	5	3:50	1:35:00	32:00:00	600	90	2.0	#2 SN Observat	4	
0103.FLAT	24	3:51	1:35:00	32:00:00	600	90	2.0	#2 SN Observat	4	600-line, 2-sec, Warren
0104-0112.FLAT	24	3:55	1:35:00	32:00:00	600	90	2.0	#2 SN Observat	4	
0113.hs3881	300	3:58	1:58:32.4	-6:50:04	600	90	2.0	#122 Halo Star	4	
0114.COMP	10	4:03	1:58:32.4	-6:50:04	600	90	2.0	#122 Halo Star	4	
0115.hs3882	480	4:04	1:58:54.9	-7:02:54	600	90	2.0	#122 Halo Star	4	
0116.COMP	10	4:12	1:58:54.9	-7:02:54	600	90	2.0	#122 Halo Star	4	
0117.hs3883	840	4:13	1:59:52.8	-2:09:51	600	90	2.0	#122 Halo Star	4	
0118.COMP	10	4:28	1:59:52.8	-2:09:51	600	90	2.0	#122 Halo Star	4	
0119.hs3884	1020	4:28	2:01:34.0	-4:58:16	600	90	2.0	#122 Halo Star	4	
0120.COMP	10	4:46	2:01:34.0	-4:58:16	600	90	2.0	#122 Halo Star	4	

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0121.hs3964	240	4:47	3:43:09.6	-2:26:42	600	90	2.0	#122 Halo Star	4	
0122.COMP	10	4:52	3:43:09.6	-2:26:42	600	90	2.0	#122 Halo Star	4	
0123.hs3963	330	4:53	3:42:32.9	-2:40:05	600	90	2.0	#122 Halo Star	4	
0124.COMP	10	4:59	3:42:32.9	-2:40:05	600	90	2.0	#122 Halo Star	4	
0125.hs3962	300	4:59	3:41:11.6	-3:07:44	600	90	2.0	#122 Halo Star	4	
0126.COMP	10	5:05	3:41:11.6	-3:07:44	600	90	2.0	#122 Halo Star	4	
0127.hs3961	900	5:05	3:41:04.1	-3:17:58	600	90	2.0	#122 Halo Star	4	
0128.COMP	10	5:20	3:41:04.1	-3:17:58	600	90	2.0	#122 Halo Star	4	
0129.hs3960	180	5:21	3:41:02.9	-8:02:32	600	90	2.0	#122 Halo Star	4	
0130.COMP	10	5:24	3:41:02.9	-8:02:32	600	90	2.0	#122 Halo Star	4	
0131.hs3959	960	5:25	3:40:10.5	-7:03:06	600	90	2.0	#122 Halo Star	4	
0132.COMP	10	5:41	3:40:10.5	-7:03:06	600	90	2.0	#122 Halo Star	4	
0133.hs3958	660	5:42	3:39:35.0	-8:57:43	600	90	2.0	#122 Halo Star	4	
0134.COMP	10	5:53	3:39:35.0	-8:57:43	600	90	2.0	#122 Halo Star	4	
0135.hs3965	240	5:55	3:43:21.7	-3:39:28	600	90	2.0	#122 Halo Star	4	
0136.COMP	10	5:59	3:43:21.7	-3:39:28	600	90	2.0	#122 Halo Star	4	
0137.hs3966	300	6:00	3:44:53.6	-7:51:59	600	90	2.0	#122 Halo Star	4	
0138.COMP	10	6:07	3:44:53.6	-7:51:59	600	90	2.0	#122 Halo Star	4	
0139.hs3967	480	6:08	3:46:23.8	-6:54:51	600	90	2.0	#122 Halo Star	4	
0140.COMP	10	6:16	3:46:23.8	-6:54:51	600	90	2.0	#122 Halo Star	4	

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0141.hs3968	1200	6:17	3:47:23.5	-2:54:05	600	90	2.0	#122 Halo Star	4	
0142.COMP	10	6:37	3:47:23.5	-2:54:05	600	90	2.0	#122 Halo Star	4	
0143.hs3969	480	6:37	3:47:24.0	-3:54:32	600	90	2.0	#122 Halo Star	4	
0144.COMP	10	6:46	3:47:24.0	-3:54:32	600	90	2.0	#122 Halo Star	4	
0145.hs3970	300	6:46	3:47:42.6	-9:46:09	600	90	2.0	#122 Halo Star	4	
0146.COMP	10	6:52	3:47:42.6	-9:46:09	600	90	2.0	#122 Halo Star	4	
0147.hs4012	1020	6:53	4:21:12.1	-7:42:12	600	90	2.0	#122 Halo Star	4	
0148.COMP	10	7:10	4:21:12.1	-7:42:12	600	90	2.0	#122 Halo Star	4	
0149.hs4013	180	7:11	4:22:49.4	-8:37:37	600	90	2.0	#122 Halo Star	4	
0150.COMP	10	7:14	4:22:49.4	-8:37:37	600	90	2.0	#122 Halo Star	4	
0151.hs4014	420	7:15	4:24:35.5	-6:07:15	600	90	2.0	#122 Halo Star	4	
0152.COMP	10	7:22	4:24:35.5	-6:07:15	600	90	2.0	#122 Halo Star	4	
0153.hs4015	420	7:23	4:30:07.7	-8:15:21	600	90	2.0	#122 Halo Star	4	
0154.COMP	10	7:30	4:30:07.7	-8:15:21	600	90	2.0	#122 Halo Star	4	
0155.HD038145	4	7:32	5:43:42.2	4:00:15	600	90	2.0	#122 Halo Star	4	
0156.HD038145	4	7:32	5:43:42.2	4:00:15	600	90	2.0	#122 Halo Star	4	
0157.COMP	10	7:32	5:43:42.2	4:00:15	600	90	2.0	#122 Halo Star	4	
0158.HD038237	4	7:33	5:44:30.5	4:20:21	600	90	2.0	#122 Halo Star	4	
0159.HD038237	4	7:33	5:44:30.5	4:20:21	600	90	2.0	#122 Halo Star	4	
0160.COMP	10	7:34	5:44:30.5	4:20:21	600	90	2.0	#122 Halo Star	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0161.HD038309	2	7:34	5:45:01.7	4:00:29	600	90	2.0	#122 Halo Star	4	
0162.HD038309	2	7:35	5:45:01.7	4:00:29	600	90	2.0	#122 Halo Star	4	
0163.COMP	10	7:35	5:45:01.7	4:00:29	600	90	2.0	#122 Halo Star	4	
0164.HD038528	6	7:36	5:46:43.1	2:42:26	600	90	2.0	#122 Halo Star	4	
0165.HD038528	6	7:36	5:46:43.1	2:42:26	600	90	2.0	#122 Halo Star	4	
0166.COMP	10	7:36	5:46:43.1	2:42:26	600	90	2.0	#122 Halo Star	4	
0167.HD040573	6	7:37	5:59:53.6	3:59:27	600	90	2.0	#122 Halo Star	4	
0168.HD040573	6	7:38	5:59:53.6	3:59:27	600	90	2.0	#122 Halo Star	4	
0169.COMP	10	7:38	5:59:53.6	3:59:27	600	90	2.0	#122 Halo Star	4	
0170.HD041808	6	7:39	6:07:23.3	3:05:30	600	90	2.0	#122 Halo Star	4	
0171.HD041808	6	7:39	6:07:23.3	3:05:30	600	90	2.0	#122 Halo Star	4	
0172.COMP	10	7:39	6:07:23.3	3:05:30	600	90	2.0	#122 Halo Star	4	
0173.HD042092	3	7:40	6:08:59.6	2:29:47	600	90	2.0	#122 Halo Star	4	
0174.HD042092	3	7:40	6:08:59.6	2:29:47	600	90	2.0	#122 Halo Star	4	
0175.COMP	10	7:40	6:08:59.6	2:29:47	600	90	2.0	#122 Halo Star	4	
0176.HD043338	6	7:41	6:16:00.9	6:32:09	600	90	2.0	#122 Halo Star	4	
0177.HD043338	6	7:41	6:16:00.9	6:32:09	600	90	2.0	#122 Halo Star	4	
0178.COMP	10	7:42	6:16:00.9	6:32:09	600	90	2.0	#122 Halo Star	4	
0179.HD044602	4	7:43	6:22:45.2	4:12:37	600	90	2.0	#122 Halo Star	4	
0180.HD044602	4	7:43	6:22:45.2	4:12:37	600	90	2.0	#122 Halo Star	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0181.COMP	10	7:43	6:22:45.2	4:12:37	600	90	2.0	#122 Halo Star	4	
0182.HD044770	3	7:44	6:23:46.5	4:35:44	600	90	2.0	#122 Halo Star	4	
0183.HD044770	3	7:44	6:23:46.5	4:35:44	600	90	2.0	#122 Halo Star	4	
0184.HD044770	1	7:45	6:23:46.5	4:35:44	600	90	2.0	#122 Halo Star	4	
0185.HD044770	1	7:45	6:23:46.5	4:35:44	600	90	2.0	#122 Halo Star	4	
0186.HD044770northeast	4	7:45	6:23:46.5	4:35:44	600	90	2.0	#122 Halo Star	4	a close pair
0187.HD044770northeast	4	7:45	6:23:46.5	4:35:44	600	90	2.0	#122 Halo Star	4	
0188.COMP	10	7:46	6:23:46.5	4:35:44	600	90	2.0	#122 Halo Star	4	
0189.HD045196	7	7:47	6:25:58.9	-1:48:48	600	90	2.0	#122 Halo Star	4	
0190.HD045196	7	7:48	6:25:58.9	-1:48:48	600	90	2.0	#122 Halo Star	4	
0191.HD045196	15	7:48	6:25:58.9	-1:48:48	600	90	2.0	#122 Halo Star	4	
0192.HD045196	15	7:49	6:25:58.9	-1:48:48	600	90	2.0	#122 Halo Star	4	
0193.COMP	10	7:49	6:25:58.9	-1:48:48	600	90	2.0	#122 Halo Star	4	
0194.HD295354	20	7:50	6:43:32.2	-3:24:09	600	90	2.0	#122 Halo Star	4	
0195.HD295354	20	7:50	6:43:32.2	-3:24:09	600	90	2.0	#122 Halo Star	4	
0196.HD295354	60	7:51	6:43:32.2	-3:24:09	600	90	2.0	#122 Halo Star	4	
0197.COMP	10	7:52	6:43:32.2	-3:24:09	600	90	2.0	#122 Halo Star	4	
0198.Hiltner600	120	7:55	06:45:13.4	02:08:14	600	90	2.0	#122 Halo Star	4	
0199.Hiltner600	120	7:57	06:45:13.4	02:08:14	600	90	2.0	#122 Halo Star	4	
0200.COMP	10	8:00	06:45:13.4	02:08:14	600	90	2.0	#122 Halo Star	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0201.HD059473	6	8:01	7:30:27.6	7:43:09	600	90	2.0	#122 Halo Star	4	
0202.HD059473	6	8:01	7:30:27.6	7:43:09	600	90	2.0	#122 Halo Star	4	
0203.COMP	10	8:01	7:30:27.6	7:43:09	600	90	2.0	#122 Halo Star	4	
0204.HD064630	8	8:02	7:55:07.9	6:59:45	600	90	2.0	#122 Halo Star	4	
0205.HD064630	8	8:02	7:55:07.9	6:59:45	600	90	2.0	#122 Halo Star	4	
0206.COMP	10	8:03	7:55:07.9	6:59:45	600	90	2.0	#122 Halo Star	4	
0207.HD065372	4	8:04	7:58:30.3	2:56:09	600	90	2.0	#122 Halo Star	4	
0208.HD065372	4	8:04	7:58:30.3	2:56:09	600	90	2.0	#122 Halo Star	4	
0209.COMP	10	8:04	7:58:30.3	2:56:09	600	90	2.0	#122 Halo Star	4	
0210.test	5	8:12	6:0:0	32:0:0	300	90	3.0	#141 Mapping t	4	
0211.test	5	8:13	6:0:0	32:0:0	300	90	3.0	#141 Mapping t	4	
0212.Akn120	300	8:17	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	300-line, 3-sec, combo
0213.COMP	5	8:22	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	bad comp
0214.COMP	5	8:24	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0215.COMP	5	8:25	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0216.test	5	8:26	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0217.flattest	8	8:27	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0218.test	5	8:29	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0219.test	5	8:32	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0220.test	5	8:33	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0221.test	5	8:33	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0222.test	5	8:35	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0223.COMP	5	8:37	05:13:38.0	-00:12:15	300	12	3.0	#6 AGN Monitor	4	
0224.COMP	5	8:39	02:45:12.4	+14:10:29	300	12	3.0	#141 Mapping t	4	
0225.test	5	8:40	02:45:12.4	+14:10:29	300	12	3.0	#141 Mapping t	4	flaky wiring strikes again
0226.COMP	5	8:42	6:0:0	32:0:0	300	30	3.0	#141 Mapping t	4	
0227.COMP	5	8:43	6:0:0	32:0:0	300	90	3.0	#141 Mapping t	4	
0228.COMP	5	8:53	05:59:58.7	+31:59:14	300	90	3.0	#141 Mapping t	4	ok
0229.COMP	5	8:55	05:59:58.6	+31:59:14	300	90	3.0	#141 Mapping t	4	start taking comps BEFORE object
0230.COMP	5	8:57	03:15:11.7	+34:17:29	300	90	3.0	#141 Mapping t	4	
0231.2M03151175+3417293	300	8:58	03:15:11.7	+34:17:29	300	90	3.0	#141 Mapping t	4	
0232.COMP	5	9:03	03:15:35.9	+37:54:46	300	90	3.0	#141 Mapping t	4	
0233.2M03153592+3754462	330	9:04	03:15:35.9	+37:54:46	300	90	3.0	#141 Mapping t	4	
0234.COMP	5	9:10	03:17:31.6	+37:02:47	300	90	3.0	#141 Mapping t	4	
0235.2M03173160+3702465	900	9:11	03:17:31.6	+37:02:47	300	90	3.0	#141 Mapping t	4	
0236.COMP	5	9:27	03:21:52.6	+28:13:23	300	90	3.0	#141 Mapping t	4	
0237.2M03215261+2813235	720	9:32	03:21:52.6	+28:13:23	300	90	3.0	#141 Mapping t	4	
0238.COMP	5	9:46	03:23:26.9	+41:24:23	300	90	3.0	#141 Mapping t	4	
0239.2M03232697+4124235	600	9:46	03:23:26.9	+41:24:23	300	90	3.0	#141 Mapping t	4	
0240.COMP	5	9:57	03:50:10.0	+23:03:25	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0241.2M03501002+2303253	300	9:58	03:50:10.0	+23:03:25	300	90	3.0	#141 Mapping t	4	
0242.COMP	5	10:04	03:50:1.4	+35:48:9	300	90	3.0	#141 Mapping t	4	
0243.2M03500140+3548096	600	10:05	03:50:1.4	+35:48:9	300	90	3.0	#141 Mapping t	4	
0244.COMP	5	10:16	03:50:39.3	+41:02:53	300	90	3.0	#141 Mapping t	4	
0245.2M03503934+4102527	900	10:16	03:50:39.3	+41:02:53	300	90	3.0	#141 Mapping t	4	
0246.COMP	5	10:32	04:26:34.3	+25:22:2	300	90	3.0	#141 Mapping t	4	
0247.2M04263431+2522026	720	10:33	04:26:34.3	+25:22:2	300	90	3.0	#141 Mapping t	4	ignore star at row 65, big cosmic ray
0248.COMP	5	10:46	04:31:13.0	+21:48:4	300	90	3.0	#141 Mapping t	4	
0249.2M04311307+2148047	720	10:46	04:31:13.0	+21:48:4	300	90	3.0	#141 Mapping t	4	
0250.COMP	5	10:59	04:53:21.0	+24:40:4	300	90	3.0	#141 Mapping t	4	
0251.2M04532105+2440042	720	11:00	04:53:21.0	+24:40:4	300	90	3.0	#141 Mapping t	4	
0252.COMP	5	11:19	04:56:59.3	+21:52:15	300	90	3.0	#141 Mapping t	4	
0253.2M04565943+2152159	720	11:19	04:56:59.3	+21:52:15	300	90	3.0	#141 Mapping t	4	
0254.COMP	5	11:32	04:58:42.5	+21:03:46	300	90	3.0	#141 Mapping t	4	
0255.2M04584253+2103462	420	11:32	04:58:42.5	+21:03:46	300	90	3.0	#141 Mapping t	4	
0256.COMP	5	11:41	06:52:5.8	+47:04:12	300	90	3.0	#141 Mapping t	4	
0257.2M06520587+4704125	540	11:42	06:52:5.8	+47:04:12	300	90	3.0	#141 Mapping t	4	
0258.COMP	5	11:52	06:54:1.9	+53:40:59	300	90	3.0	#141 Mapping t	4	
0259.2M06540192+5340590	390	11:53	06:54:1.9	+53:40:59	300	90	3.0	#141 Mapping t	4	
0260.COMP	5	12:00	06:56:19.7	+62:59:14	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0261.2M06561971+6259146	360	12:01	06:56:19.7	+62:59:14	300	90	3.0	#141 Mapping t	4	
0262.COMP	5	12:08	07:03:45.9	+64:01:57	300	90	3.0	#141 Mapping t	4	
0263.2M07034600+6401570	270	12:09	07:03:45.9	+64:01:57	300	90	3.0	#141 Mapping t	4	
0264.COMP	5	12:14	06:56:14.9	+45:17:50	300	90	3.0	#141 Mapping t	4	
0265.2M06561495+4517503	360	12:15	06:56:14.9	+45:17:50	300	90	3.0	#141 Mapping t	4	
0266.COMP	10	12:23	12:24:35.6	+39:23:03	300	92	3.0	#2 SN Observat	2	
0267.sn2005k1	900	12:24	12:24:35.6	+39:23:03	300	92	3.0	#2 SN Observat	2	
0268.COMP	10	12:40	12:52:15.6	27:31:52	300	92	3.0	#2 SN Observat	2	
0269.sn2005la	1200	12:42	12:52:15.6	27:31:52	300	92	3.0	#2 SN Observat	2	
0270.COMP	10	13:04	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0271.Feige34	150	13:04	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0272.Feige34	150	13:07	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0273.COMP	10	13:10	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0274.N4151	30	13:12	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0275.N4151	30	13:12	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0276.N4151	60	13:13	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0277.COMP	5	13:16	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	4	
0278.TXCVn	30	13:16	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	4	
0279.TXCVn	30	13:17	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	4	
0280-0289.BIAS	0	13:20	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	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>Bir</i>	<i>Comments</i>
0290-0299.FLAT	8	13:24	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	4	
0300-0309.BIAS	0	13:26	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	2	
0310-0319.FLAT	16	13:31	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	2	
0320-0324.DARK	900	14:41	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	4	
0325-0329.DARK	900	15:57	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0005.DARK	900	23:12	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	2	
0006-0020.BIAS	0	0:04	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	4	
0021-0030.FLAT	8	0:08	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	4	
0031-0040.BIAS	0	0:10	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	2	
0041-0061.FLAT	16	0:20	12:44:42	36:45:48	300	90	3.0	#141 Mapping t	2	
0062.sky	3	0:37	22:10:00	32:00:00	300	90	3.0	#57 Velocity S	4	clear skies
0063-0066.sky	3	0:38	22:10:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0067.COMP	5	0:38	22:10:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0068.COMP	5	1:05	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0069.ZAnd	1	1:08	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0070.ZAnd	5	1:09	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0071.ZAnd	30	1:09	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0072.COMP	5	1:11	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	4	
0073.PUVul	5	1:12	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	4	
0074.PUVul	30	1:13	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	4	
0075.PUVul	60	1:14	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	4	
0076.COMP	5	1:16	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic	4	
0077.BFCyg	5	1:17	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic	4	
0078.BFCyg	30	1:17	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic	4	
0079.BFCyg	120	1:18	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0080.COMP	5	1:21	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	4	
0081.CHCyg	1	1:21	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	4	
0082.CHCyg	5	1:22	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	4	
0083.CHCyg	5	1:23	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	4	
0084.CHCyg	0	1:23	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	4	
0085.COMP	5	1:24	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	4	
0086.CICyg	5	1:25	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	4	
0087.CICyg	15	1:25	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	4	
0088.CICyg	120	1:26	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	4	
0089.COMP	10	1:31	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0090.BDp174708	45	1:32	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0091.BDp174708	45	1:33	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0092.BDp174708	45	1:33	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0093.COMP	10	1:35	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0094.BDp284211	90	1:36	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0095.BDp284211	90	1:38	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0096.COMP	10	1:41	20:44:09.8	-10:43:24	300	40	3.0	#6 AGN Monitor	2	
0097.MRK509	180	1:42	20:44:09.8	-10:43:24	300	40	3.0	#6 AGN Monitor	2	
0098.MRK509	180	1:45	20:44:09.8	-10:43:24	300	40	3.0	#6 AGN Monitor	2	
0099.COMP	10	1:49	23:03:15.7	+08:52:27	300	0	3.0	#6 AGN Monitor	2	



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0100.N7469	120	1:50	23:03:15.7	+08:52:27	300	0	3.0	#6 AGN Monitor	2	
0101.N7469	120	1:52	23:03:15.7	+08:52:27	300	0	3.0	#6 AGN Monitor	2	
0102.COMP	5	1:55	23:43:49	-15:17:05	300	0	3.0	#12 Symbiotic	4	
0103.RAqr	1	1:56	23:43:49	-15:17:05	300	0	3.0	#12 Symbiotic	4	
0104.RAqr	1	1:56	23:43:49	-15:17:05	300	0	3.0	#12 Symbiotic	4	
0105.RAqr	5	1:57	23:43:49	-15:17:05	300	0	3.0	#12 Symbiotic	4	
0106.COMP	10	2:00	22:34:07.3	+05:34:06	300	30	3.0	#2 SN Observat	2	
0107.sn2005kc	1200	2:02	22:34:07.3	+05:34:06	300	30	3.0	#2 SN Observat	2	
0108.COMP	5	2:23	21:54:22.4	+36:19:00	300	30	3.0	#141 Mapping t	4	
0109.2M21542247+3619009	480	2:25	21:54:22.4	+36:19:00	300	90	3.0	#141 Mapping t	4	
0110.COMP	5	2:34	21:54:43.8	+38:43:54	300	90	3.0	#141 Mapping t	4	
0111.2M21544380+3843547	480	2:35	21:54:43.8	+38:43:54	300	90	3.0	#141 Mapping t	4	ignore star in slit
0112.COMP	5	2:43	21:55:07.5	+21:27:25	300	90	3.0	#141 Mapping t	4	
0113.2M21550752+2127254	420	2:44	21:55:07.5	+21:27:25	300	90	3.0	#141 Mapping t	4	
0114.COMP	5	2:53	21:56:31.5	+41:14:54	300	90	3.0	#141 Mapping t	4	
0115.2M21563156+4114548	900	2:54	21:56:31.5	+41:14:54	300	80	3.0	#141 Mapping t	4	
0116.COMP	5	3:10	21:56:36.7	+47:08:21	300	80	3.0	#141 Mapping t	4	
0117.2M21563673+4708211	900	3:10	21:56:36.7	+47:08:21	300	80	3.0	#141 Mapping t	4	
0118.COMP	5	3:26	22:10:05.7	+41:01:44	300	80	3.0	#141 Mapping t	4	
0119.2M2100570+4101441	300	3:27	22:10:05.7	+41:01:44	300	80	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0120.COMP	5	3:34	22:10:07.6	+11:16:26	300	80	3.0	#141 Mapping t	4	
0121.2M22100760+1116263	330	3:35	22:10:07.6	+11:16:26	300	80	3.0	#141 Mapping t	4	
0122.COMP	5	3:41	22:10:15.3	+17:13:57	300	80	3.0	#141 Mapping t	4	
0123.2M22101536+1713573	540	3:41	22:10:15.3	+17:13:57	300	80	3.0	#141 Mapping t	4	
0124.COMP	5	3:52	22:10:57.1	+44:56:26	300	80	3.0	#141 Mapping t	4	
0125.2M22105719+4456266	600	3:53	22:10:57.1	+44:56:26	300	80	3.0	#141 Mapping t	4	
0126.COMP	5	4:03	22:12:11.4	+41:25:36	300	80	3.0	#141 Mapping t	4	
0127.2M22121149+4125364	360	4:04	22:12:11.4	+41:25:36	300	80	3.0	#141 Mapping t	4	
0128.COMP	5	4:10	22:12:28.3	+38:56:09	300	80	3.0	#141 Mapping t	4	
0129.2M22122832+3856095	540	4:11	22:12:28.3	+38:56:09	300	80	3.0	#141 Mapping t	4	
0130.COMP	5	4:21	22:13:21.2	+38:59:25	300	80	3.0	#141 Mapping t	4	
0131.2M22132129+3859251	420	4:21	22:13:21.2	+38:59:25	300	80	3.0	#141 Mapping t	4	
0132.COMP	5	4:29	22:13:27.1	+37:11:02	300	80	3.0	#141 Mapping t	4	
0133.2M22132719+3711021	900	4:30	22:13:27.1	+37:11:02	300	80	3.0	#141 Mapping t	4	
0134.COMP	5	4:46	22:13:38.0	+42:08:22	300	80	3.0	#141 Mapping t	4	
0135.2M22133807+4208227	480	4:47	22:13:38.0	+42:08:22	300	70	3.0	#141 Mapping t	4	ok
0136.COMP	5	4:57	00:40:30.2	+40:50:55	300	90	3.0	#57 Velocity S	4	
0137.158m213	240	4:57	00:40:30.2	+40:50:55	300	90	3.0	#57 Velocity S	4	
0138.COMP	5	5:02	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	4	
0139.EGAnd	1	5:02	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	4	



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Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0140.EGAnd	2	5:03	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	4	
0141.EGAnd	6	5:03	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	4	
0142.EGAnd	15	5:04	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	4	
0143.COMP	5	5:05	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	4	
0144.AXPer	15	5:06	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	4	
0145.AXPer	45	5:07	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	4	
0146.AXPer	120	5:08	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	4	
0147.COMP	5	5:11	23:58:38.9	+22:26:56	300	90	3.0	#141 Mapping t	4	
0148.2M23583893+2226562	330	5:12	23:58:38.9	+22:26:56	300	90	3.0	#141 Mapping t	4	
0149.COMP	5	5:18	23:52:02.8	+21:02:06	300	90	3.0	#141 Mapping t	4	
0150.2M23520287+2102068	360	5:19	23:52:02.8	+21:02:06	300	90	3.0	#141 Mapping t	4	
0151.COMP	10	5:28	3:08:49.3	-07:01:59	300	0	3.0	#2 SN Observat	2	
0152.sn2005eq	1800	5:30	3:08:49.3	-07:01:59	300	0	3.0	#2 SN Observat	2	
0153.COMP	10	6:01	03:35:04.3	-24:56:38	300	4	3.0	#2 SN Observat	2	
0154.sn2005ke	1200	6:03	03:35:04.3	-24:56:38	300	4	3.0	#2 SN Observat	2	
0155.COMP	5	6:26	02:35:56.1	+46:21:52	300	90	3.0	#141 Mapping t	4	
0156.2M02355619+4621527	240	6:26	02:35:56.1	+46:21:52	300	90	3.0	#141 Mapping t	4	
0157.COMP	5	6:31	02:39:31.1	+46:00:41	300	90	3.0	#141 Mapping t	4	
0158.2M02393108+4600415	240	6:31	02:39:31.1	+46:00:41	300	90	3.0	#141 Mapping t	4	
0159.COMP	5	6:36	02:40:54.1	+47:58:27	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0160. 2M02405408+4758276	240	6:36	02:40:54.1	+47:58:27	300	90	3.0	#141 Mapping t	4	
0161. COMP	5	6:42	02:48:3.1	+47:32:37	300	90	3.0	#141 Mapping t	4	
0162. 2M02480315+4732377	300	6:43	02:48:3.1	+47:32:37	300	90	3.0	#141 Mapping t	4	
0163. COMP	5	6:49	02:48:29.0	+47:59:35	300	90	3.0	#141 Mapping t	4	
0164. 2M02482906+4759353	480	6:50	02:48:29.0	+47:59:35	300	95	3.0	#141 Mapping t	4	
0165. COMP	5	6:59	02:36:51.2	+41:20:21	300	95	3.0	#141 Mapping t	4	
0166. 2M02365123+4120214	270	6:59	02:36:51.2	+41:20:21	300	95	3.0	#141 Mapping t	4	
0167. COMP	5	7:04	02:39:34.9	+40:46:37	300	95	3.0	#141 Mapping t	4	
0168. 2M02393496+4046374	270	7:05	02:39:34.9	+40:46:37	300	95	3.0	#141 Mapping t	4	
0169. COMP	5	7:10	02:42:5.9	+44:31:57	300	95	3.0	#141 Mapping t	4	
0170. 2M02420595+4431573	300	7:10	02:42:5.9	+44:31:57	300	95	3.0	#141 Mapping t	4	
0171. COMP	5	7:16	02:43:57.4	+38:48:2	300	95	3.0	#141 Mapping t	4	
0172. 2M02435741+3848026	300	7:16	02:43:57.4	+38:48:2	300	95	3.0	#141 Mapping t	4	
0173. COMP	5	7:22	02:45:22.0	+39:24:32	300	95	3.0	#141 Mapping t	4	
0174. 2M02452209+3924326	270	7:22	02:45:22.0	+39:24:32	300	95	3.0	#141 Mapping t	4	
0175. COMP	5	7:28	02:47:11.7	+38:23:52	300	95	3.0	#141 Mapping t	4	
0176. 2M02471169+3823525	240	7:28	02:47:11.7	+38:23:52	300	95	3.0	#141 Mapping t	4	
0177. COMP	5	7:33	02:48:7.1	+29:28:6	300	45	3.0	#141 Mapping t	4	
0178. 2M02480717+2928061	420	7:34	02:48:7.1	+29:28:6	300	45	3.0	#141 Mapping t	4	
0179. 2M02385870+1716084	300	7:42	02:38:58.7	+17:16:8	300	45	3.0	#141 Mapping t	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0180.COMP	5	7:48	02:38:58.7	+17:16:8	300	45	3.0	#141 Mapping t	4	comp for 179
0181.COMP	5	7:48	02:45:12.4	+14:10:29	300	45	3.0	#141 Mapping t	4	
0182.2M02451246+1410291	330	7:49	02:45:12.4	+14:10:29	300	45	3.0	#141 Mapping t	4	
0183.2M02483141+0939056	480	7:55	02:48:31.4	+09:39:5	300	45	3.0	#141 Mapping t	4	
0184.COMP	5	8:06	02:48:31.4	+09:39:5	300	45	3.0	#141 Mapping t	4	
0185.COMP	5	8:06	02:58:28.1	+11:22:15	300	45	3.0	#141 Mapping t	4	
0186.2M02582810+1122157	480	8:07	02:58:28.1	+11:22:15	300	45	3.0	#141 Mapping t	4	
0187.COMP	5	8:15	02:59:24.3	+12:34:50	300	45	3.0	#141 Mapping t	4	
0188.2M02592430+1234507	330	8:16	02:59:24.3	+12:34:50	300	45	3.0	#141 Mapping t	4	
0189.COMP	5	8:22	02:57:32.6	+15:59:5	300	45	3.0	#141 Mapping t	4	
0190.2M02573261+1559054	300	8:22	02:57:32.6	+15:59:5	300	45	3.0	#141 Mapping t	4	
0191.COMP	5	8:29	02:49:30.2	+35:23:53	300	90	3.0	#141 Mapping t	4	
0192.2M02493024+3523532	300	8:29	02:49:30.2	+35:23:53	300	90	3.0	#141 Mapping t	4	
0193.COMP	5	8:35	02:54:49.2	+36:05:40	300	90	3.0	#141 Mapping t	4	
0194.2M02544931+3605398	270	8:35	02:54:49.2	+36:05:40	300	90	3.0	#141 Mapping t	4	
0195.COMP	5	8:41	02:51:10.7	+45:09:18	300	90	3.0	#141 Mapping t	4	
0196.2M02511077+4509186	390	8:41	02:51:10.7	+45:09:18	300	90	3.0	#141 Mapping t	4	
0197.COMP	5	8:48	02:56:23.8	+45:58:7	300	90	3.0	#141 Mapping t	4	
0198.2M02562387+4558076	600	8:49	02:56:23.8	+45:58:7	300	90	3.0	#141 Mapping t	4	
0199.COMP	5	9:01	02:50:36.9	+79:59:41	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0200. 2M02503697+7959413	540	9:01	02:50:36.9	+79:59:41	300	90	3.0	#141 Mapping t	4	
0201. COMP	5	9:11	03:11:40.5	+36:04:6	300	90	3.0	#141 Mapping t	4	
0202. 2M03114054+3604064	330	9:12	03:11:40.5	+36:04:6	300	90	3.0	#141 Mapping t	4	
0203. COMP	5	9:18	03:40:55.3	+23:35:33	300	90	3.0	#141 Mapping t	4	
0204. 2M03405536+2335338	420	9:19	03:40:55.3	+23:35:33	300	90	3.0	#141 Mapping t	4	
0205. COMP	5	9:27	03:40:28.5	+40:03:47	300	90	3.0	#141 Mapping t	4	
0206. 2M03402848+4003472	300	9:27	03:40:28.5	+40:03:47	300	90	3.0	#141 Mapping t	4	
0207. COMP	5	9:33	03:41:11.7	+42:27:49	300	90	3.0	#141 Mapping t	4	
0208. 2M0341172+4227490	360	9:33	03:41:11.7	+42:27:49	300	90	3.0	#141 Mapping t	4	
0209. COMP	5	9:40	03:44:27.8	+42:08:53	300	90	3.0	#141 Mapping t	4	
0210. 2M03442780+4208531	540	9:40	03:44:27.8	+42:08:53	300	90	3.0	#141 Mapping t	4	
0211. COMP	5	9:50	03:45:40.4	+40:45:27	300	90	3.0	#141 Mapping t	4	
0212. 2M03454041+4045274	540	9:51	03:45:40.4	+40:45:27	300	90	3.0	#141 Mapping t	4	
0213. COMP	5	10:01	04:09:5.9	+70:38:44	300	90	3.0	#141 Mapping t	4	
0214. 2M04090596+7038448	720	10:02	04:09:5.9	+70:38:44	300	90	3.0	#141 Mapping t	4	
0215. COMP	5	10:14	04:26:57.5	+70:14:27	300	90	3.0	#141 Mapping t	4	
0216. 2M04265759+7014275	300	10:15	04:26:57.5	+70:14:27	300	90	3.0	#141 Mapping t	4	
0217. COMP	5	10:21	04:27:11.2	+72:40:46	300	90	3.0	#141 Mapping t	4	
0218. 2M04271129+7240465	420	10:21	04:27:11.2	+72:40:46	300	90	3.0	#141 Mapping t	4	
0219. COMP	10	10:29	04:28:51.3	+69:34:47	300	90	3.0	#141 Mapping t	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0220.2M04285125+6934469andWc	720	10:29	04:28:51.3	+69:34:47	300	90	3.0	#141 Mapping t	2	target gal at row 82 with good em
0221.COMP	5	10:43	04:34:55.7	+73:39:0	300	90	3.0	#141 Mapping t	4	brighter comp gal to W at row 53
0222.2M04345568+7338596	420	10:43	04:34:55.7	+73:39:0	300	90	3.0	#141 Mapping t	4	
0223.COMP	5	10:51	04:35:50.7	+73:08:22	300	90	3.0	#141 Mapping t	4	
0224.2M04355070+7308224	600	10:52	04:35:50.7	+73:08:22	300	90	3.0	#141 Mapping t	4	
0225.COMP	5	11:03	04:44:29.7	+69:40:36	300	90	3.0	#141 Mapping t	4	
0226.2M04442973+6940369	330	11:03	04:44:29.7	+69:40:36	300	90	3.0	#141 Mapping t	4	
0227.COMP	5	11:09	04:51:28.9	+72:19:0	300	90	3.0	#141 Mapping t	4	
0228.2M04512901+7219005	300	11:10	04:51:28.9	+72:19:0	300	90	3.0	#141 Mapping t	4	
0229.COMP	5	11:15	05:02:30.2	+69:53:38	300	90	3.0	#141 Mapping t	4	
0230.2M05023017+6953380	300	11:16	05:02:30.2	+69:53:38	300	90	3.0	#141 Mapping t	4	
0231.2M05063697+6404565	330	11:21	05:06:37.0	+64:04:56	300	90	3.0	#141 Mapping t	4	
0232.COMP	5	11:27	05:06:37.0	+64:04:56	300	90	3.0	#141 Mapping t	4	
0233.COMP	5	11:28	05:15:56.7	+64:40:47	300	90	3.0	#141 Mapping t	4	
0234.2M05155679+6440481	390	11:29	05:15:56.7	+64:40:47	300	90	3.0	#141 Mapping t	4	
0235.COMP	5	11:36	05:12:4.3	+78:53:50	300	90	3.0	#141 Mapping t	4	
0236.2M05120427+7853503	360	11:37	05:12:4.3	+78:53:50	300	90	3.0	#141 Mapping t	4	
0237.COMP	5	11:43	05:18:38.5	+82:25:47	300	90	3.0	#141 Mapping t	4	
0238.2M05183853+8225475	360	11:44	05:18:38.5	+82:25:47	300	90	3.0	#141 Mapping t	4	
0239.COMP	5	11:51	05:36:31.6	+81:44:4	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0240. 2M05363154+81444047	240	11:51	05:36:31.6	+81:44:4	300	90	3.0	#141 Mapping t	4	
0241. COMP	5	11:56	06:26:3.9	+77:52:29	300	90	3.0	#141 Mapping t	4	
0242. 2M06260402+7752298	300	11:57	06:26:3.9	+77:52:29	300	90	3.0	#141 Mapping t	4	
0243. COMP	5	12:03	07:10:36.2	+82:11:25	300	90	3.0	#141 Mapping t	4	
0244. 2M07103611+8211253	240	12:03	07:10:36.2	+82:11:25	300	90	3.0	#141 Mapping t	4	
0245. test	10	12:11	09:48:54.8	13:45:13	300	90	5.0	#56 Spectropho	2	
0246. FLAT	10	12:12	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	5-sec slit is in
0247-0255. FLAT	10	12:15	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	
0256. HD84937	10	12:17	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	
0257. HD84937	10	12:18	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	
0258. HD84937	10	12:19	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	
0259. HD84937	10	12:19	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	
0260. HD84937	10	12:20	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	
0261. HD84937	10	12:22	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	
0262. COMP	10	12:24	09:48:54.8	13:45:13	300	0	5.0	#56 Spectropho	2	seeing could be a little better
0263. Feige34	120	12:26	10:39:36.8	43:06:10	300	33	5.0	#56 Spectropho	2	
0264. Feige34	120	12:28	10:39:36.8	43:06:10	300	33	5.0	#56 Spectropho	2	
0265. Feige34	120	12:31	10:39:36.8	43:06:10	300	33	5.0	#56 Spectropho	2	
0266. Feige34	120	12:36	10:39:36.8	43:06:10	300	33	5.0	#56 Spectropho	2	
0267. COMP	10	12:38	10:39:36.8	43:06:10	300	33	5.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0268.sn20051a	1200	12:42	12:52:15.6	27:31:52	300	105	3.0	#2 SN Observat	2	3-sec slit
0269.COMP	10	13:02	12:52:15.6	27:31:52	300	105	3.0	#2 SN Observat	2	
0270-0279.BIAS	0	13:05	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	4	
0280-0289.FLAT	8	13:08	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	4	
0290-0299.BIAS	0	13:11	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	2	
0300-0316.FLAT	16	13:19	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	2	
0317-0321.DARK	900	14:23	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	4	
0322-0326.DARK	900	15:39	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	2	

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0001-0004.DARK	900	23:33	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	2	
0005-0019.BIAS	0	0:12	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	4	
0020-0029.FLAT	8	0:15	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	4	
0030-0039.BIAS	0	0:17	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	2	
0040-0060.FLAT	16	0:28	12:52:15.6	27:31:52	300	90	3.0	#2 SN Observat	2	
0061-0065.sky	3	0:37	22:11:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0066.COMP	5	0:37	22:11:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0067.BDp174708	45	1:15	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0068.BDp174708	45	1:16	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0069.BDp174708	45	1:17	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0070.COMP	10	1:18	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	2	
0071.BDp284211	120	1:20	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0072.BDp284211	120	1:23	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0073.COMP	10	1:25	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	2	
0074.2M20581682+0559587	360	1:26	20:58:16.8	+05:59:58	300	90	3.0	#141 Mapping t	4	
0075.COMP	5	1:32	20:58:16.8	+05:59:58	300	90	3.0	#141 Mapping t	4	
0076.2M20525953+0706225	300	1:33	20:52:59.5	+07:06:22	300	90	3.0	#141 Mapping t	4	
0077.COMP	5	1:38	20:52:59.5	+07:06:22	300	90	3.0	#141 Mapping t	4	
0078.2M20562064+1139489	540	1:39	20:56:20.6	+11:39:48	300	90	3.0	#141 Mapping t	4	
0079.COMP	5	1:48	20:56:20.6	+11:39:48	300	90	3.0	#141 Mapping t	4	

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0080.2M20585943+3119403	540	1:50	20:58:59.4	+31:19:40	300	90	3.0	#141 Mapping t	4	
0081.COMP	5	1:59	20:58:59.4	+31:19:40	300	90	3.0	#141 Mapping t	4	
0082.2M20590000+3124403	300	2:00	20:59:00.0	+31:24:40	300	90	3.0	#141 Mapping t	4	
0083.COMP	5	2:05	20:59:00.0	+31:24:40	300	90	3.0	#141 Mapping t	4	
0084.2M21163245+6400358	900	2:08	21:16:32.4	+64:00:35	300	90	3.0	#141 Mapping t	4	
0085.COMP	5	2:24	21:16:32.4	+64:00:35	300	90	3.0	#141 Mapping t	4	
0086.2M21181913+6048075	900	2:25	21:18:19.1	+60:48:07	300	90	3.0	#141 Mapping t	4	
0087.COMP	5	2:40	21:18:19.1	+60:48:07	300	90	3.0	#141 Mapping t	4	
0088.2M22134497+4910520	300	2:41	22:13:44.9	+49:10:52	300	90	3.0	#141 Mapping t	4	
0089.COMP	5	2:46	22:13:44.9	+49:10:52	300	90	3.0	#141 Mapping t	4	
0090.2M22173930+4913285	480	2:47	22:17:39.3	+49:13:28	300	100	3.0	#141 Mapping t	4	
0091.COMP	5	2:55	22:17:39.3	+49:13:28	300	100	3.0	#141 Mapping t	4	
0092.2M22172520+4648443	300	2:56	22:17:25.2	+46:48:44	300	80	3.0	#141 Mapping t	4	
0093.COMP	5	3:02	22:17:25.2	+46:48:44	300	80	3.0	#141 Mapping t	4	
0094.2M22175158+4018511	300	3:02	22:17:51.5	+40:18:51	300	80	3.0	#141 Mapping t	4	
0095.COMP	5	3:08	22:17:51.5	+40:18:51	300	80	3.0	#141 Mapping t	4	
0096.2M22153336+3800193	300	3:08	22:15:33.3	+38:00:19	300	80	3.0	#141 Mapping t	4	
0097.COMP	5	3:13	22:15:33.3	+38:00:19	300	80	3.0	#141 Mapping t	4	
0098.2M22151176+3713594	300	3:15	22:15:11.7	+37:13:59	300	80	3.0	#141 Mapping t	4	
0099.COMP	5	3:21	22:15:11.7	+37:13:59	300	80	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0100.2M22161979+3739477	240	3:21	22:16:19.7	+37:39:47	300	80	3.0	#141 Mapping t	4	
0101.COMP	5	3:25	22:16:19.7	+37:39:47	300	80	3.0	#141 Mapping t	4	
0102.2M22143862+3239427	240	3:29	22:14:38.6	+32:39:42	300	80	3.0	#141 Mapping t	4	
0103.COMP	5	3:33	22:14:38.6	+32:39:42	300	80	3.0	#141 Mapping t	4	
0104.2M22184339+3555599	270	3:34	22:18:43.3	+35:55:59	300	80	3.0	#141 Mapping t	4	
0105.COMP	5	3:39	22:18:43.3	+35:55:59	300	80	3.0	#141 Mapping t	4	
0106.2M22224094+3613514	240	3:40	22:22:40.9	+36:13:51	300	70	3.0	#141 Mapping t	4	
0107.COMP	5	3:44	22:22:40.9	+36:13:51	300	70	3.0	#141 Mapping t	4	
0108.2M22235753+3222007	270	3:46	22:23:57.5	+32:22:00	300	70	3.0	#141 Mapping t	4	
0109.COMP	5	3:51	22:23:57.5	+32:22:00	300	70	3.0	#141 Mapping t	4	
0110.2M22241261+2907334	270	3:52	22:24:12.6	+29:07:33	300	70	3.0	#141 Mapping t	4	
0111.COMP	5	3:57	22:24:12.6	+29:07:33	300	70	3.0	#141 Mapping t	4	
0112.2M22252208+2522456	270	3:57	22:25:22.0	+25:22:45	300	70	3.0	#141 Mapping t	4	
0113.COMP	5	4:02	22:25:22.0	+25:22:45	300	70	3.0	#141 Mapping t	4	
0114.sn2005hg	1800	4:05	01:55:41.8	+46:47:47	300	0	3.0	#2 SN Observat	2	
0115.COMP	10	4:36	01:55:41.8	+46:47:47	300	0	3.0	#2 SN Observat	2	
0116.2M23442143+3333539	360	4:38	23:44:21.4	+33:33:53	300	90	3.0	#141 Mapping t	4	
0117.COMP	5	4:44	23:44:21.4	+33:33:53	300	90	3.0	#141 Mapping t	4	
0118.2M23474629+3326366	420	4:45	23:47:46.2	+33:26:36	300	90	3.0	#141 Mapping t	4	
0119.COMP	5	4:52	23:47:46.2	+33:26:36	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0120.2M23472214+3016039	240	4:53	23:47:22.1	+30:16:03	300	90	3.0	#141 Mapping t	4	
0121.COMP	5	4:57	23:47:22.1	+30:16:03	300	90	3.0	#141 Mapping t	4	
0122.2M23495124+2854541	240	4:58	23:49:51.2	+28:54:54	300	90	3.0	#141 Mapping t	4	
0123.COMP	5	5:02	23:49:51.2	+28:54:54	300	90	3.0	#141 Mapping t	4	
0124.2M23431830+2857136	270	5:03	23:43:18.3	+28:57:13	300	90	3.0	#141 Mapping t	4	
0125.COMP	5	5:08	23:43:18.3	+28:57:13	300	90	3.0	#141 Mapping t	4	
0126.2M23522020+3918473	300	5:08	23:52:20.2	+39:18:47	300	90	3.0	#141 Mapping t	4	
0127.COMP	5	5:14	23:52:20.2	+39:18:47	300	90	3.0	#141 Mapping t	4	
0128.2M23554063+4702577	210	5:14	23:55:40.6	+47:02:57	300	90	3.0	#141 Mapping t	4	
0129.COMP	5	5:18	23:55:40.6	+47:02:57	300	90	3.0	#141 Mapping t	4	
0130.2M23522730+5019336	360	5:19	23:52:27.3	+50:19:33	300	90	3.0	#141 Mapping t	4	
0131.COMP	5	5:25	23:52:27.3	+50:19:33	300	90	3.0	#141 Mapping t	4	
0132.2M23530624+5156172	600	5:27	23:53:06.2	+51:56:17	300	85	3.0	#141 Mapping t	4	
0133.COMP	5	5:37	23:53:06.2	+51:56:17	300	85	3.0	#141 Mapping t	4	
0134.2M23560635+5203240	420	5:38	23:56:06.3	+52:03:24	300	85	3.0	#141 Mapping t	4	
0135.COMP	5	5:45	23:56:06.3	+52:03:24	300	85	3.0	#141 Mapping t	4	
0136.sn2005ke	1200	5:48	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0137.COMP	10	6:09	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0138.0160_01	660	6:11	01:11:19.8	16:01:45	300	0	3.0	#160 2MACS	4	
0139.COMP	5	6:22	01:11:19.8	16:01:45	300	0	3.0	#160 2MACS	4	

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0140.0160_02	1020	6:25	01:11:33.9	16:01:10	300	90	3.0	#160 2MACS	4	
0141.COMP	5	6:42	01:11:33.9	16:01:10	300	90	3.0	#160 2MACS	4	
0142.0160_03	720	6:42	01:12:17.7	14:58:33	300	90	3.0	#160 2MACS	4	
0143.COMP	5	6:55	01:12:17.7	14:58:33	300	90	3.0	#160 2MACS	4	
0144.0160_04	900	6:56	01:13:29.4	16:05:45	300	90	3.0	#160 2MACS	4	
0145.COMP	5	7:11	01:13:29.4	16:05:45	300	90	3.0	#160 2MACS	4	
0146.0160_05	600	7:12	01:13:51.9	16:00:23	300	90	3.0	#160 2MACS	4	
0147.COMP	5	7:22	01:13:51.9	16:00:23	300	90	3.0	#160 2MACS	4	
0148.0160_06	720	7:22	01:14:20.8	15:58:18	300	90	3.0	#160 2MACS	4	
0149.COMP	5	7:35	01:14:20.8	15:58:18	300	90	3.0	#160 2MACS	4	
0150.2M03223250+1447239	300	7:36	03:22:32.5	+14:47:24	300	90	3.0	#141 Mapping t	4	
0151.COMP	5	7:41	03:22:32.5	+14:47:24	300	90	3.0	#141 Mapping t	4	
0152.2M03234600+1213593	540	7:42	03:23:46.0	+12:13:59	300	90	3.0	#141 Mapping t	4	
0153.COMP	5	7:51	03:23:46.0	+12:13:59	300	90	3.0	#141 Mapping t	4	
0154.2M03270164+1036261	480	7:51	03:27:1.6	+10:36:26	300	90	3.0	#141 Mapping t	4	
0155.COMP	5	8:00	03:27:1.6	+10:36:26	300	90	3.0	#141 Mapping t	4	
0156.2M03280628+1308283	480	8:00	03:28:6.2	+13:08:28	300	90	3.0	#141 Mapping t	4	
0157.COMP	5	8:09	03:28:6.2	+13:08:28	300	90	3.0	#141 Mapping t	4	
0158.2M03361080+0953160	420	8:09	03:36:10.8	+09:53:15	300	90	3.0	#141 Mapping t	4	
0159.COMP	5	8:16	03:36:10.8	+09:53:15	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0160.2M03473213+1118444	360	8:17	03:47:32.1	+11:18:44	300	90	3.0	#141 Mapping t	4	
0161.COMP	5	8:23	03:47:32.1	+11:18:44	300	90	3.0	#141 Mapping t	4	
0162.2M03462977+0043081	240	8:24	03:46:29.7	+00:43:7	300	90	3.0	#141 Mapping t	4	
0163.COMP	5	8:28	03:46:29.7	+00:43:7	300	90	3.0	#141 Mapping t	4	
0164.2M03494086-0740110	240	8:29	03:49:40.8	-07:40:11	300	90	3.0	#141 Mapping t	4	
0165.COMP	5	8:33	03:49:40.8	-07:40:11	300	90	3.0	#141 Mapping t	4	
0166.2M03495084-0337408	270	8:34	03:49:50.8	-03:37:40	300	90	3.0	#141 Mapping t	4	
0167.COMP	5	8:38	03:49:50.8	-03:37:40	300	90	3.0	#141 Mapping t	4	
0168.2M03500035-0127578	360	8:39	03:50:0.3	-01:27:57	300	90	3.0	#141 Mapping t	4	
0169.COMP	5	8:45	03:50:0.3	-01:27:57	300	90	3.0	#141 Mapping t	4	
0170.2M03505721-0826216	240	8:46	03:50:57.2	-08:26:21	300	90	3.0	#141 Mapping t	4	
0171.COMP	5	8:50	03:50:57.2	-08:26:21	300	90	3.0	#141 Mapping t	4	
0172.2M03534978-0808151	270	8:51	03:53:49.7	-08:08:15	300	90	3.0	#141 Mapping t	4	
0173.COMP	5	8:56	03:53:49.7	-08:08:15	300	90	3.0	#141 Mapping t	4	
0174.2M04253347-0903010	540	8:56	04:25:33.4	-09:03:1	300	90	3.0	#141 Mapping t	4	
0175.COMP	5	9:06	04:25:33.4	-09:03:1	300	90	3.0	#141 Mapping t	4	
0176.2M04255161-0822099	480	9:06	04:25:51.6	-08:22:10	300	90	3.0	#141 Mapping t	4	
0177.COMP	5	9:14	04:25:51.6	-08:22:10	300	90	3.0	#141 Mapping t	4	
0178.2M04300106-0641471	270	9:15	04:30:1.0	-06:41:47	300	90	3.0	#141 Mapping t	4	
0179.COMP	5	9:20	04:30:1.0	-06:41:47	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0180.2M04321238-0522397	180	9:20	04:32:12.4	-05:22:39	300	90	3.0	#141 Mapping t	4	
0181.COMP	5	9:24	04:32:12.4	-05:22:39	300	90	3.0	#141 Mapping t	4	
0182.2M04414215-0842159	420	9:25	04:41:42.1	-08:42:16	300	90	3.0	#141 Mapping t	4	
0183.COMP	5	9:32	04:41:42.1	-08:42:16	300	90	3.0	#141 Mapping t	4	
0184.2M04472813-0653178	450	9:32	04:47:28.1	-06:53:17	300	90	3.0	#141 Mapping t	4	
0185.COMP	5	9:40	04:47:28.1	-06:53:17	300	90	3.0	#141 Mapping t	4	
0186.2M04532461-0447334	210	9:41	04:53:24.6	-04:47:33	300	90	3.0	#141 Mapping t	4	
0187.COMP	5	9:45	04:53:24.6	-04:47:33	300	90	3.0	#141 Mapping t	4	
0188.2M04515593-0355475	180	9:45	04:51:55.9	-03:55:47	300	90	3.0	#141 Mapping t	4	
0189.COMP	5	9:49	04:51:55.9	-03:55:47	300	90	3.0	#141 Mapping t	4	
0190.2M04495256-0324245	180	9:49	04:49:52.5	-03:24:24	300	90	3.0	#141 Mapping t	4	
0191.COMP	5	9:52	04:49:52.5	-03:24:24	300	90	3.0	#141 Mapping t	4	
0192.2M04472949-0112478	210	9:53	04:47:29.5	-01:12:48	300	90	3.0	#141 Mapping t	4	
0193.COMP	5	9:57	04:47:29.5	-01:12:48	300	90	3.0	#141 Mapping t	4	
0194.2M04455381-0055111	210	9:58	04:45:53.8	-00:55:11	300	90	3.0	#141 Mapping t	4	
0195.COMP	5	10:01	04:45:53.8	-00:55:11	300	90	3.0	#141 Mapping t	4	
0196.2M04363592-0218140	210	10:02	04:36:35.9	-02:18:13	300	90	3.0	#141 Mapping t	4	
0197.COMP	5	10:06	04:36:35.9	-02:18:13	300	90	3.0	#141 Mapping t	4	
0198.2M04372088-0214303	210	10:06	04:37:20.9	-02:14:30	300	90	3.0	#141 Mapping t	4	
0199.COMP	5	10:10	04:37:20.9	-02:14:30	300	90	3.0	#141 Mapping t	4	

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0200.2M04522939+0032308	210	10:11	04:52:29.3	+00:32:30	300	90	3.0	#141 Mapping t	4	
0201.COMP	5	10:15	04:52:29.3	+00:32:30	300	90	3.0	#141 Mapping t	4	
0202.2M04561517+0150568	210	10:15	04:56:15.1	+01:50:56	300	90	3.0	#141 Mapping t	4	
0203.COMP	5	10:19	04:56:15.1	+01:50:56	300	90	3.0	#141 Mapping t	4	
0204.2M04575928+0256059	210	10:20	04:57:59.2	+02:56:6	300	90	3.0	#141 Mapping t	4	
0205.COMP	5	10:24	04:57:59.2	+02:56:6	300	90	3.0	#141 Mapping t	4	
0206.2M05053470+0301444	300	10:24	05:05:34.7	+03:01:44	300	90	3.0	#141 Mapping t	4	
0207.COMP	5	10:29	05:05:34.7	+03:01:44	300	90	3.0	#141 Mapping t	4	
0208.2M05063732+0434314	540	10:30	05:06:37.3	+04:34:31	300	90	3.0	#141 Mapping t	4	
0209.COMP	5	10:40	05:06:37.3	+04:34:31	300	90	3.0	#141 Mapping t	4	
0210.2M05233817+0534105	420	10:40	05:23:38.1	+05:34:10	300	90	3.0	#141 Mapping t	4	
0211.COMP	5	10:47	05:23:38.1	+05:34:10	300	90	3.0	#141 Mapping t	4	
0212.2M05220532+0835502	900	10:48	05:22:5.3	+08:35:50	300	90	3.0	#141 Mapping t	4	
0213.COMP	5	11:03	05:22:5.3	+08:35:50	300	90	3.0	#141 Mapping t	4	
0214.2M05282613+1609044	1200	11:05	05:28:26.1	+16:09:4	300	90	3.0	#141 Mapping t	2	LSB, 500cnts cont, also good em lines
0215.COMP	10	11:25	05:28:26.1	+16:09:4	300	90	3.0	#141 Mapping t	2	
0216.2M05082121+1722083	660	11:26	05:08:21.2	+17:22:8	300	90	3.0	#141 Mapping t	2	
0217.COMP	10	11:37	05:08:21.2	+17:22:8	300	90	3.0	#141 Mapping t	2	
0218.2M07221500+3534076	300	11:39	07:22:14.9	+35:34:7	300	90	3.0	#141 Mapping t	4	
0219.COMP	5	11:44	07:22:14.9	+35:34:7	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0220.2M09561016-0923505	300	11:45	09:56:10.1	-09:23:50	300	90	3.0	#141 Mapping t	4	
0221.COMP	5	11:51	09:56:10.1	-09:23:50	300	90	3.0	#141 Mapping t	4	
0222.2M11094848-0830154	60	11:52	11:09:48.5	-08:30:15	300	90	3.0	#141 Mapping t	4	
0223.COMP	5	11:53	11:09:48.5	-08:30:15	300	90	3.0	#141 Mapping t	4	
0224.2M11003419-0731508	210	11:54	11:00:34.2	-07:31:51	300	90	3.0	#141 Mapping t	4	
0225.COMP	5	11:57	11:00:34.2	-07:31:51	300	90	3.0	#141 Mapping t	4	
0226.2M11011197-0639406	600	11:58	11:01:11.9	-06:39:40	300	90	3.0	#141 Mapping t	4	
0227.COMP	5	12:09	11:01:11.9	-06:39:40	300	90	3.0	#141 Mapping t	4	
0228.2M11075412-0643460	210	12:09	11:07:54.1	-06:43:46	300	90	3.0	#141 Mapping t	4	
0229.COMP	5	12:13	11:07:54.1	-06:43:46	300	90	3.0	#141 Mapping t	4	
0230.2M11020386-0932053	180	12:14	11:02:3.8	-09:32:5	300	90	3.0	#141 Mapping t	4	
0231.COMP	5	12:17	11:02:3.8	-09:32:5	300	90	3.0	#141 Mapping t	4	
0232.sn20051a	1500	12:21	12:52:15.6	27:31:52	300	107	3.0	#2 SN Observat	2	
0233.COMP	10	12:47	12:52:15.6	27:31:52	300	107	3.0	#2 SN Observat	2	
0234.N3379	120	12:49	10:45:11.4	+12:50:48	300	90	3.0	#57 Velocity S	4	
0235.COMP	5	12:51	10:45:11.4	+12:50:48	300	90	3.0	#57 Velocity S	4	
0236.MRK421	300	12:52	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	4	
0237.MRK421	300	12:57	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	4	
0238.COMP	5	13:03	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	4	
0239.N4151	30	13:03	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	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>Bir</i>	<i>Comments</i>
0240.N4151	30	13:04	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	4	
0241.N4151	60	13:05	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	4	
0242.COMP	5	13:06	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	4	
0243.Feige34	120	13:07	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0244.COMP	10	13:09	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0245.HD84937	10	13:11	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	2	
0246.HD84937	10	13:11	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	2	
0247.HD84937	10	13:11	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	2	
0248.COMP	10	13:12	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	2	
0249-0258.BIAS	0	13:14	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	4	
0259-0268.FLAT	8	13:18	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	4	
0269-0278.BIAS	0	13:20	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	2	
0279.FLAT	16	13:20	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	2	plus darks to follow owned by Mike
0280-0288.FLAT	16	13:25	09:48:54.8	13:45:13	300	90	3.0	#56 Spectropho	2	
0289.DARK	900	13:32	11:24:45.1	+31:31:56	300	90	3.0	#56 Spectropho	4	
0290.DARK	900	13:47	11:40:00.7	+31:31:57	300	90	3.0	#56 Spectropho	4	
0291.DARK	900	14:02	11:55:12.8	+31:31:58	300	90	3.0	#56 Spectropho	4	
0292.DARK	900	14:17	12:10:24.8	+31:31:59	300	90	3.0	#56 Spectropho	4	
0293.DARK	900	14:33	12:25:40.3	+31:31:58	300	90	3.0	#56 Spectropho	4	
0294.DARK	900	14:48	12:40:57.0	+31:31:57	300	90	3.0	#56 Spectropho	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>Bir</i>	<i>Comments</i>
0295.DARK	900	15:03	12:56:16.9	+31:31:56	300	90	3.0	#56 Spectropho	2	
0296.DARK	900	15:18	13:11:33.4	+31:31:54	300	90	3.0	#56 Spectropho	2	
0297.DARK	900	15:34	13:26:50.0	+31:31:51	300	90	3.0	#56 Spectropho	2	
0298.DARK	900	15:49	13:42:10.4	+31:31:48	300	90	3.0	#56 Spectropho	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>Bir</i>	<i>Comments</i>
0001.DARK	900	21:26	19:19:58.8	+31:29:12	300	90	3.0	#56 Spectropho	4	
0002.DARK	900	21:41	19:35:06.0	+31:29:04	300	90	3.0	#56 Spectropho	4	
0003.DARK	900	21:56	19:50:16.8	+31:28:56	300	90	3.0	#56 Spectropho	4	
0004.DARK	900	22:11	20:05:24.3	+31:28:49	300	90	3.0	#56 Spectropho	4	
0005.DARK	900	22:26	20:20:34.9	+31:28:42	300	90	3.0	#56 Spectropho	4	
0006.DARK	900	22:41	20:35:45.5	+31:28:35	300	90	3.0	#56 Spectropho	4	
0007.DARK	900	22:56	20:50:52.7	+31:28:28	300	90	3.0	#56 Spectropho	4	
0008.DARK	900	23:11	21:05:59.8	+31:28:22	300	90	3.0	#56 Spectropho	4	
0009.DARK	900	23:27	21:21:10.5	+31:28:16	300	90	3.0	#56 Spectropho	4	
0010.DARK	900	23:42	21:36:17.8	+31:28:10	300	90	3.0	#56 Spectropho	4	
0011-0020.BIAS	0	0:54	22:34:05.2	+31:27:54	300	90	3.0	#56 Spectropho	4	
0021.FLAT	8	0:55	22:34:35.4	+31:27:54	300	90	3.0	#56 Spectropho	4	
0022-0030.FLAT	8	0:57	22:36:49.6	+31:27:53	300	90	3.0	#56 Spectropho	4	
0031-0036.BIAS	0	0:59	22:38:55.6	+31:27:53	300	90	3.0	#56 Spectropho	2	
0037-0040.BIAS	0	1:00	22:39:47.4	+31:27:52	300	90	3.0	#56 Spectropho	2	
0041-0048.FLAT	16	1:04	22:43:37.5	+31:27:52	300	90	3.0	#56 Spectropho	2	
0049-0058.FLAT	16	1:08	22:48:23.4	+31:27:51	300	90	3.0	#56 Spectropho	2	
0059-0060.FLAT	16	1:09	22:49:19.7	+31:27:50	300	90	3.0	#56 Spectropho	2	
0061.BDp284211	50	1:18	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0062.BDp284211	50	1:19	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0063.COMP	5	1:20	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0064.BDp284211	60	1:20	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0065.BDp284211	60	1:22	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0066.COMP	12	1:24	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0067.BDp174708	20	1:27	22:11:31.4	18:05:33	300	40	3.0	#56 Spectropho	2	
0068.BDp174708	20	1:27	22:11:31.4	18:05:33	300	40	3.0	#56 Spectropho	2	
0069.BDp174708	20	1:28	22:11:31.4	18:05:33	300	40	3.0	#56 Spectropho	2	
0070.COMP	12	1:30	22:11:31.4	18:05:33	300	40	3.0	#56 Spectropho	2	
0071.3C390.3	300	1:33	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0072.3C390.3	300	1:38	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0073.3C390.3	300	1:43	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0074.COMP	12	1:49	18:42:09.0	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0075.MRK509	180	1:53	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0076.MRK509	180	1:57	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0077.COMP	12	2:00	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0078.Akn564	180	2:03	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0079.Akn564	180	2:06	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0080.COMP	12	2:09	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0081.N7469	120	2:11	23:03:15.7	+08:52:27	300	100	3.0	#6 AGN Monitor	2	
0082.N7469	120	2:13	23:03:15.7	+08:52:27	300	100	3.0	#6 AGN Monitor	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0083.COMP	12	2:16	23:03:15.7	+08:52:27	300	100	3.0	#6 AGN Monitor	2	
0084.MRK335	150	2:18	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0085.MRK335	150	2:21	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0086.COMP	12	2:24	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0087.2M20473231+2229276	780	2:26	20:47:32.3	+22:29:27	300	90	3.0	#141 Mapping t	2	
0088.COMP	12	2:40	20:47:32.3	+22:29:27	300	90	3.0	#141 Mapping t	2	
0089.2M20482269+2713043	900	2:42	20:48:22.6	+27:13:04	300	90	3.0	#141 Mapping t	2	
0090.COMP	12	2:57	20:48:22.6	+27:13:04	300	90	3.0	#141 Mapping t	2	
0091.2M20483420+5701370	1500	3:00	20:48:34.2	+57:01:37	300	70	3.0	#141 Mapping t	2	
0092.COMP	12	3:25	20:48:34.2	+57:01:37	300	70	3.0	#141 Mapping t	2	
0093.2M20483678+2503145	720	3:28	20:48:36.7	+25:03:14	300	110	3.0	#141 Mapping t	2	row=72
0094.COMP	12	3:40	20:48:36.7	+25:03:14	300	110	3.0	#141 Mapping t	2	
0095.2M22141774+0617013	900	3:42	22:14:17.7	+06:17:01	300	90	3.0	#141 Mapping t	2	
0096.COMP	12	3:58	22:14:17.7	+06:17:01	300	90	3.0	#141 Mapping t	2	
0097.2M22150060+0518105	780	3:59	22:15:00.6	+05:18:10	300	90	3.0	#141 Mapping t	2	
0098.COMP	12	4:12	22:15:00.6	+05:18:10	300	90	3.0	#141 Mapping t	2	
0099.2M22163763+0812456	1020	4:14	22:16:37.6	+08:12:45	300	90	3.0	#141 Mapping t	2	
0100.COMP	12	4:31	22:16:37.6	+08:12:45	300	90	3.0	#141 Mapping t	2	
0101.2M03264055+3636434	1020	4:36	03:26:40.5	+36:36:43	300	90	3.0	#141 Mapping t	2	
0102.COMP	12	4:53	03:26:40.5	+36:36:43	300	90	3.0	#141 Mapping t	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0103.2M03281878+4144567	540	4:54	03:28:18.7	+41:44:56	300	90	3.0	#141 Mapping t	2	
0104.COMP	12	5:04	03:28:18.7	+41:44:56	300	90	3.0	#141 Mapping t	2	
0105.2M03300915+4257115	1200	5:09	03:30:9.1	+42:57:11	300	90	3.0	#141 Mapping t	2	
0106.COMP	12	5:29	03:30:9.1	+42:57:11	300	90	3.0	#141 Mapping t	2	
0107.2M03323474+4307078	840	5:33	03:32:34.7	+43:07:8	300	81	3.0	#141 Mapping t	2	
0108.COMP	12	5:47	03:32:34.7	+43:07:8	300	81	3.0	#141 Mapping t	2	
0109.2M03332267+4021247	420	5:49	03:33:22.6	+40:21:25	300	90	3.0	#141 Mapping t	2	
0110.COMP	12	5:56	03:33:22.6	+40:21:25	300	90	3.0	#141 Mapping t	2	
0111.2M03353030+3816593	720	5:57	03:35:30.3	+38:16:59	300	90	3.0	#141 Mapping t	2	
0112.COMP	12	6:10	03:35:30.3	+38:16:59	300	90	3.0	#141 Mapping t	2	
0113.2M03372034+1940413	420	6:12	03:37:20.3	+19:40:41	300	90	3.0	#141 Mapping t	2	
0114.COMP	12	6:19	03:37:20.3	+19:40:41	300	90	3.0	#141 Mapping t	2	
0115.2M03372681+0336579	1800	6:21	03:37:26.8	+03:36:57	300	90	3.0	#141 Mapping t	2	too faint for a redo...
0116.COMP	12	6:51	03:37:26.8	+03:36:57	300	90	3.0	#141 Mapping t	2	
0117.0397_02	1500	6:54	02:54:6.3	15:45:39	300	100	3.0	#160 2MACS	2	
0118.COMP	12	7:19	02:54:6.3	15:45:39	300	100	3.0	#160 2MACS	2	
0119.0397_03	660	7:21	02:54:27.5	16:04:12	300	90	3.0	#160 2MACS	2	
0120.COMP	12	7:34	02:54:27.5	16:04:12	300	90	3.0	#160 2MACS	2	
0121.0397_04	1200	7:35	02:54:45.8	15:58:14	300	90	3.0	#160 2MACS	2	
0122.COMP	12	7:55	02:54:45.8	15:58:14	300	90	3.0	#160 2MACS	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0123.0397_05	1800	7:57	02:55:13.1	15:36:54	300	100	3.0	#160 2MACS	2	
0124.COMP	12	8:28	02:55:13.1	15:36:54	300	100	3.0	#160 2MACS	2	
0125.0397_06	1200	8:29	02:55:20.7	15:42:49	300	90	3.0	#160 2MACS	2	
0126.COMP	12	8:51	02:55:20.7	15:42:49	300	90	3.0	#160 2MACS	2	
0127.0397_07	1500	8:52	02:55:41.5	15:52:49	300	90	3.0	#160 2MACS	2	
0128.COMP	12	9:18	02:55:41.5	15:52:49	300	90	3.0	#160 2MACS	2	
0129.sn2005kf	1500	9:21	07:47:26.5	+26:55:32	300	110	3.0	#2 SN Observat	2	
0130.COMP	12	9:46	07:47:26.5	+26:55:32	300	110	3.0	#2 SN Observat	2	
0131.bcand350	840	9:53	7:19:41.8	41:20:55	600	90	2.0	#166 Hyper Vel	4	600L, 2arcsec, tilt=440
0132.COMP	10	10:08	7:19:41.8	41:20:55	600	90	2.0	#166 Hyper Vel	4	
0133.bcand351	600	10:10	7:26:39.2	40:16:32	600	90	2.0	#166 Hyper Vel	4	
0134.COMP	10	10:20	7:26:39.2	40:16:32	600	90	2.0	#166 Hyper Vel	4	
0135.bcand352	1260	10:21	7:30:18.3	41:13:20	600	90	2.0	#166 Hyper Vel	4	
0136.COMP	10	10:42	7:30:18.3	41:13:20	600	90	2.0	#166 Hyper Vel	4	
0137.bcand353	1140	10:43	7:32:37.8	42:04:54	600	90	2.0	#166 Hyper Vel	4	
0138.COMP	10	11:03	7:32:37.8	42:04:54	600	90	2.0	#166 Hyper Vel	4	
0139.bcand354	1500	11:04	7:36:36.2	26:22:15	600	90	2.0	#166 Hyper Vel	4	
0140.COMP	10	11:29	7:36:36.2	26:22:15	600	90	2.0	#166 Hyper Vel	4	
0141.bcand355	660	11:30	7:39:12.5	22:53:11	600	90	2.0	#166 Hyper Vel	4	
0142.COMP	10	11:42	7:39:12.5	22:53:11	600	90	2.0	#166 Hyper Vel	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0143.bcand356	1620	11:43	7:39:18.8	15:50:35	600	90	2.0	#166 Hyper Vel	4	
0144.COMP	10	12:10	7:39:18.8	15:50:35	600	90	2.0	#166 Hyper Vel	4	
0145.Feige34	60	12:14	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0146.COMP	10	12:16	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0147-0156.FLAT	24	12:21	10:39:36.8	43:06:10	600	90	2.0	#166 Hyper Vel	4	
0157.COMP	5	12:27	10:39:36.8	43:06:10	600	90	2.0	#166 Hyper Vel	4	
0158.sn2005la	1200	12:30	12:52:15.6	27:31:52	300	107	3.0	#2 SN Observat	2	combo setup
0159.COMP	12	12:51	12:52:15.6	27:31:52	300	107	3.0	#2 SN Observat	2	
0160.sn2005kl	1200	12:53	12:24:35.6	+39:23:03	300	75	3.0	#2 SN Observat	2	
0161.COMP	12	13:13	12:24:35.6	+39:23:03	300	75	3.0	#2 SN Observat	2	
0162.Feige34	60	13:15	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0163.COMP	12	13:17	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0164-0173.BIAS	0	13:20	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	4	
0174-0183.FLAT	8	13:25	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	4	
0184-0193.BIAS	0	13:28	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	2	
0194-0213.FLAT	16	13:39	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	2	
0214.DARK	900	13:47	11:43:34.2	+31:31:58	300	90	3.0	#2 SN Observat	2	
0215-0216.DARK	900	14:17	12:14:06.2	+31:31:59	300	90	3.0	#2 SN Observat	2	
0217.DARK	900	14:32	12:29:22.1	+31:31:58	300	90	3.0	#2 SN Observat	2	
0218.DARK	900	14:48	12:44:34.8	+31:31:57	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>Bir</i>	<i>Comments</i>
0219.DARK	900	15:03	12:59:50.8	+31:31:56	300	90	3.0	#2 SN Observat	2	
0220.DARK	900	15:18	13:15:06.9	+31:31:54	300	90	3.0	#2 SN Observat	2	
0221.DARK	900	15:33	13:30:22.5	+31:31:51	300	90	3.0	#2 SN Observat	2	
0222.DARK	900	15:48	13:45:38.8	+31:31:48	300	90	3.0	#2 SN Observat	2	
0223.DARK	900	16:04	14:00:51.6	+31:31:44	300	90	3.0	#2 SN Observat	2	

UT Date 2005-12-08 Observers M CalkinsColl. Focus 980 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>Bir</i>	<i>Comments</i>
0001.DARK	900	21:58	19:56:25.5	+31:28:54	300	90	3.0	#2 SN Observat	4	
0002.DARK	900	22:13	20:11:32.8	+31:28:46	300	90	3.0	#2 SN Observat	4	
0003.DARK	900	22:28	20:26:43.8	+31:28:39	300	90	3.0	#2 SN Observat	4	
0004.DARK	900	22:43	20:41:51.3	+31:28:32	300	90	3.0	#2 SN Observat	4	
0005.DARK	900	22:59	20:57:02.1	+31:28:26	300	90	3.0	#2 SN Observat	4	
0006.DARK	900	23:14	21:12:09.6	+31:28:19	300	90	3.0	#2 SN Observat	4	
0007.DARK	900	23:29	21:27:20.4	+31:28:14	300	90	3.0	#2 SN Observat	4	
0008.DARK	900	23:44	21:42:27.9	+31:28:08	300	90	3.0	#2 SN Observat	4	
0009.DARK	900	23:59	21:57:38.8	+31:28:04	300	90	3.0	#2 SN Observat	4	
0010.DARK	900	0:14	22:12:45.9	+31:27:59	300	90	3.0	#2 SN Observat	4	
0011-0020.BIAS	0	0:45	22:29:07.4	+31:27:55	300	90	3.0	#2 SN Observat	4	
0021-0030.FLAT	8	0:50	22:33:23.4	+31:27:54	300	90	3.0	#2 SN Observat	4	
0031-0035.BIAS	0	0:52	22:35:16.1	+31:27:54	300	90	3.0	#2 SN Observat	2	
0036-0040.BIAS	0	0:53	22:36:20.9	+31:27:53	300	90	3.0	#2 SN Observat	2	
0041-0044.FLAT	16	0:56	22:39:36.3	+31:27:53	300	90	3.0	#2 SN Observat	2	
0045-0054.FLAT	16	1:00	22:44:22.3	+31:27:52	300	90	3.0	#2 SN Observat	2	
0055-0060.FLAT	16	1:03	22:47:11.8	+31:27:51	300	90	3.0	#2 SN Observat	2	
0061.BDp284211	60	1:24	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0062.BDp284211	60	1:25	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0063.COMP	5	1:26	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	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>Bir</i>	<i>Comments</i>
0064.BDp284211	60	1:27	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0065.BDp284211	60	1:28	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0066.COMP	12	1:30	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0067.BDp174708	25	1:33	22:11:31.4	18:05:33	300	44	3.0	#56 Spectropho	2	
0068.BDp174708	25	1:34	22:11:31.4	18:05:33	300	44	3.0	#56 Spectropho	2	
0069.BDp174708	25	1:35	22:11:31.4	18:05:33	300	44	3.0	#56 Spectropho	2	
0070.COMP	12	1:35	22:11:31.4	18:05:33	300	44	3.0	#56 Spectropho	2	
0071.YYHer	1	1:41	18:14:34	20:59:19	300	90	3.0	#12 Symbiotic	2	
0072.YYHer	10	1:41	18:14:34	20:59:19	300	90	3.0	#12 Symbiotic	2	
0073.YYHer	60	1:42	18:14:34	20:59:19	300	90	3.0	#12 Symbiotic	2	
0074.COMP	12	1:44	18:14:34	20:59:19	300	90	3.0	#12 Symbiotic	2	
0075.V443Her	5	1:46	18:22:07	23:27:20	300	90	3.0	#12 Symbiotic	2	
0076.V443Her	45	1:47	18:22:07	23:27:20	300	90	3.0	#12 Symbiotic	2	
0077.V443Her	90	1:48	18:22:07	23:27:20	300	90	3.0	#12 Symbiotic	2	
0078.COMP	12	1:50	18:22:07	23:27:20	300	90	3.0	#12 Symbiotic	2	
0079.BFCyg	1	1:53	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic	2	
0080.BFCyg	60	1:53	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic	2	
0081.COMP	12	1:55	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic	2	
0082.CHCyg	1	1:57	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	2	
0083.CHCyg	5	1:57	19:24:33	50:14:30	300	90	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>Bir</i>	<i>Comments</i>
0084.CHCyg	30	1:58	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	2	
0085.CHCyg	0	2:00	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	2	
0086.COMP	12	2:01	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic	2	
0087.CICyg	2	2:03	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	2	
0088.CICyg	20	2:04	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	2	
0089.CICyg	60	2:06	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	2	
0090.COMP	12	2:07	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic	2	
0091.ZAnd	2	2:10	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0092.ZAnd	10	2:10	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0093.ZAnd	60	2:10	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0094.COMP	12	2:12	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0095.RAqr	0	2:15	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0096.RAqr	1	2:15	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0097.RAqr	5	2:15	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0098.RAqr	10	2:16	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0099.COMP	12	2:17	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0100.PUVu1	1	2:21	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	
0101.PUVu1	10	2:22	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	
0102.PUVu1	60	2:23	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	
0103.COMP	12	2:25	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0104.EGAnd	1	2:27	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0105.EGAnd	5	2:28	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0106.EGAnd	10	2:29	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0107.COMP	12	2:30	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0108.AXPer	4	2:32	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0109.AXPer	30	2:32	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0110.AXPer	90	2:33	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0111.COMP	12	2:36	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0112.M31	60	2:38	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	2	
0113.COMP	12	2:40	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	2	
0114.sn2005hk	1200	2:47	00:27:50.8	-01:11:52	300	0	3.0	#2 SN Observat	2	
0115.COMP	12	3:07	00:27:50.8	-01:11:52	300	0	3.0	#2 SN Observat	2	
0116.2M21542247+3619009	1200	3:16	21:54:22.4	+36:19:00	300	90	3.0	#141 Mapping t	2	redo
0117.COMP	12	3:37	21:54:22.4	+36:19:00	300	90	3.0	#141 Mapping t	2	
0118.0076_09	720	3:38	00:39:53.4	06:46:47	300	90	3.0	#160 2MACS	2	
0119.COMP	12	3:51	00:39:53.4	06:46:47	300	90	3.0	#160 2MACS	2	
0120.0076_10	540	3:52	00:40:7.0	06:55:11	300	90	3.0	#160 2MACS	2	
0121.COMP	12	4:01	00:40:7.0	06:55:11	300	90	3.0	#160 2MACS	2	
0122.0076_11	1800	4:03	00:40:19.7	06:47:03	300	90	3.0	#160 2MACS	2	
0123.COMP	12	4:33	00:40:19.7	06:47:03	300	90	3.0	#160 2MACS	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0124.0076_12	1200	4:35	00:40:21.5	06:50:41	300	90	3.0	#160 2MACS	2	
0125.COMP	12	4:56	00:40:21.5	06:50:41	300	90	3.0	#160 2MACS	2	
0126.0076_13	720	4:59	00:40:26.5	06:44:48	300	90	3.0	#160 2MACS	2	
0127.COMP	12	5:12	00:40:26.5	06:44:48	300	90	3.0	#160 2MACS	2	
0128.0076_14	780	5:14	00:40:55.0	07:10:21	300	90	3.0	#160 2MACS	2	thin clouds... get again?
0129.COMP	12	5:27	00:40:55.0	07:10:21	300	90	3.0	#160 2MACS	2	
0130.0397_07	1200	5:32	02:55:41.5	15:52:49	300	90	3.0	#160 2MACS	2	
0131.COMP	12	5:52	02:55:41.5	15:52:49	300	90	3.0	#160 2MACS	2	
0132.sn2005ke	1200	5:56	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0133.COMP	12	6:16	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0134.GITau	240	6:20	4:33:34	24:21:18	300	90	3.0	#12 Symbiotic	2	
0135.COMP	12	6:24	4:33:34	24:21:18	300	90	3.0	#12 Symbiotic	2	
0136.GKTau	210	6:25	4:33:34.5	24:21:07	300	90	3.0	#12 Symbiotic	2	
0137.COMP	12	6:29	4:33:34.5	24:21:07	300	90	3.0	#12 Symbiotic	2	
0138.2M04185486+1746345	1500	6:32	04:18:54.8	+17:46:34	300	0	3.0	#141 Mapping t	2	redo, try again...
0139.COMP	12	6:58	04:18:54.8	+17:46:34	300	0	3.0	#141 Mapping t	2	
0140.2M04185486+1746345	1800	6:59	04:18:54.8	+17:46:34	300	0	3.0	#141 Mapping t	2	
0141.COMP	12	7:30	04:18:54.8	+17:46:34	300	0	3.0	#141 Mapping t	2	
0142.2M03380238+4201191	600	7:33	03:38:2.3	+42:01:19	300	85	3.0	#141 Mapping t	2	
0143.COMP	12	7:43	03:38:2.3	+42:01:19	300	85	3.0	#141 Mapping t	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0144.2M03381210+3239118	1020	7:57	03:38:12.1	+32:39:12	300	90	3.0	#141 Mapping t	2	
0145.COMP	12	8:15	03:38:12.1	+32:39:12	300	90	3.0	#141 Mapping t	2	
0146.2M03382441+3914089	330	8:16	03:38:24.4	+39:14:9	300	90	3.0	#141 Mapping t	2	
0147.COMP	12	8:22	03:38:24.4	+39:14:9	300	90	3.0	#141 Mapping t	2	
0148.2M03385469+4217005	660	8:24	03:38:54.6	+42:17:0	300	100	3.0	#141 Mapping t	2	
0149.COMP	12	8:35	03:38:54.6	+42:17:0	300	100	3.0	#141 Mapping t	2	
0150.2M03385996+3919396	360	8:37	03:39:0.0	+39:19:39	300	90	3.0	#141 Mapping t	2	
0151.COMP	12	8:43	03:39:0.0	+39:19:39	300	90	3.0	#141 Mapping t	2	
0152.2M03390042+4138276	840	8:45	03:39:0.4	+41:38:27	300	70	3.0	#141 Mapping t	2	
0153.COMP	12	9:00	03:39:0.4	+41:38:27	300	70	3.0	#141 Mapping t	2	
0154.2M05402477-0714431	2400	9:05	05:40:24.7	-07:14:43	300	90	3.0	#141 Mapping t	2	
0155.COMP	12	9:46	05:40:24.7	-07:14:43	300	90	3.0	#141 Mapping t	2	
0156.BGGem	300	9:48	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	row=81
0157.COMP	12	9:54	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0158.BGGem	1200	9:56	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0159.COMP	12	10:16	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0160.bcand357	1800	10:23	7:40:13.2	48:10:36	600	90	2.0	#166 Hyper Vel	4	thin clouds, 2arcsec, 600L, tilt=440
0161.COMP	10	10:57	7:40:13.2	48:10:36	600	90	2.0	#166 Hyper Vel	4	wait out clouds
0162.bcand358	1800	11:06	7:41:22.2	15:39:19	600	81	2.0	#166 Hyper Vel	4	
0163.COMP	10	11:37	7:41:22.2	15:39:19	600	81	2.0	#166 Hyper Vel	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>Bir</i>	<i>Comments</i>
0164.Feige34	70	11:45	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0165.COMP	10	11:46	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0166-0175.FLAT	24	11:53	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0176.sn20051a	1800	12:00	12:52:15.6	27:31:52	300	108	3.0	#2 SN Observat	2	
0177.COMP	12	12:31	12:52:15.6	27:31:52	300	108	3.0	#2 SN Observat	2	
0178.1100_09	1020	12:36	10:49:46.5	22:40:10	300	90	3.0	#160 2MACS	2	
0179.COMP	12	12:54	10:49:46.5	22:40:10	300	90	3.0	#160 2MACS	2	
0180.1100_10	900	12:55	10:49:51.8	22:10:20	300	90	3.0	#160 2MACS	2	
0181.COMP	12	13:10	10:49:51.8	22:10:20	300	90	3.0	#160 2MACS	2	
0182.BXMon	15	13:12	7:25:23	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0183.BXMon	180	13:13	7:25:23	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0184.COMP	12	13:16	7:25:23	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0185.TXCVn	10	13:19	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	2	
0186.TXCVn	30	13:19	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	2	
0187.COMP	12	13:20	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	2	
0188.Feige34	70	13:22	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0189.COMP	12	13:23	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0190-0194.sky	2	13:55	10:39:36.8	43:06:10	300	90	3.0	#57 Velocity S	4	
0195.COMP	5	13:55	10:39:36.8	43:06:10	300	90	3.0	#57 Velocity S	4	
0196-0205.BIAS	0	13:57	10:39:36.8	43:06:10	300	90	3.0	#57 Velocity S	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>
0206-0215.FLAT	8	14:01	10:39:36.8	43:06:10	300	90	3.0	#57 Velocity S	4	
0216-0225.BIAS	0	14:04	10:39:36.8	43:06:10	300	90	3.0	#57 Velocity S	2	
0226-0245.FLAT	16	14:14	10:39:36.8	43:06:10	300	90	3.0	#57 Velocity S	2	
0246-0247.DARK	900	14:32	12:32:42.2	+31:31:59	300	90	3.0	#57 Velocity S	2	
0248.DARK	900	14:47	12:47:58.3	+31:31:57	300	90	3.0	#57 Velocity S	2	
0249.DARK	900	15:02	13:03:14.2	+31:31:56	300	90	3.0	#57 Velocity S	2	
0250.DARK	900	15:17	13:18:30.1	+31:31:54	300	90	3.0	#57 Velocity S	2	
0251.DARK	900	15:33	13:33:42.8	+31:31:51	300	90	3.0	#57 Velocity S	2	
0252.DARK	900	15:48	13:48:59.0	+31:31:48	300	90	3.0	#57 Velocity S	2	
0253.DARK	900	16:03	14:04:15.0	+31:31:44	300	90	3.0	#57 Velocity S	2	
0254.DARK	900	16:18	14:19:31.3	+31:31:39	300	90	3.0	#57 Velocity S	2	
0255.DARK	900	16:33	14:34:47.1	+31:31:35	300	90	3.0	#57 Velocity S	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0004.BIAS	0	1:08	22:55:32.3	+31:27:50	300	90	3.0	#57 Velocity S	4	
0005-0010.BIAS	0	1:09	22:56:15.6	+31:27:49	300	90	3.0	#57 Velocity S	4	
0011-0020.FLAT	8	1:12	22:59:35.9	+31:27:49	300	90	3.0	#57 Velocity S	4	
0021-0025.BIAS	0	1:13	23:01:07.0	+31:27:49	300	90	3.0	#57 Velocity S	2	
0026-0030.BIAS	0	1:15	23:02:12.1	+31:27:48	300	90	3.0	#57 Velocity S	2	
0031-0033.FLAT	16	1:19	23:07:10.8	+31:27:48	300	90	3.0	#57 Velocity S	2	
0034-0048.FLAT	16	1:26	23:14:19.8	+31:27:47	300	90	3.0	#57 Velocity S	2	
0049-0050.FLAT	16	1:27	23:15:16.2	+31:27:46	300	90	3.0	#57 Velocity S	2	
0051.BDp284211	70	1:38	21:51:11.1	28:51:53	300	110	3.0	#56 Spectropho	2	through clouds
0052.BDp284211	70	1:39	21:51:11.1	28:51:53	300	110	3.0	#56 Spectropho	2	
0053.COMP	12	1:41	21:51:11.1	28:51:53	300	110	3.0	#56 Spectropho	2	
0054.BDp174708	20	1:43	22:11:31.4	18:05:33	300	49	3.0	#56 Spectropho	2	
0055.BDp174708	20	1:43	22:11:31.4	18:05:33	300	49	3.0	#56 Spectropho	2	
0056.BDp174708	20	1:44	22:11:31.4	18:05:33	300	49	3.0	#56 Spectropho	2	
0057.COMP	12	1:45	22:11:31.4	18:05:33	300	49	3.0	#56 Spectropho	2	
0058.sn2005kc	1500	1:48	22:34:07.3	+05:34:06	300	-12	3.0	#2 SN Observat	2	
0059.COMP	12	2:13	22:34:07.3	+05:34:06	300	-12	3.0	#2 SN Observat	2	
0060.2M20372983+6100169	1500	2:21	20:37:29.8	+61:00:16	300	50	3.0	#141 Mapping t	2	
0061.COMP	12	2:47	20:37:29.8	+61:00:16	300	50	3.0	#141 Mapping t	2	
0062.N7469	300	3:01	23:03:15.7	+08:52:27	300	103	3.0	#6 AGN Monitor	2	



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Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0063.N7469	300	3:06	23:03:15.7	+08:52:27	300	103	3.0	#6 AGN Monitor	2	
0064.COMP	12	3:11	23:03:15.7	+08:52:27	300	103	3.0	#6 AGN Monitor	2	
0065.M32	60	3:13	00:39:58	+40:35:30	300	103	3.0	#57 Velocity S	2	
0066.M32	60	3:14	00:39:58	+40:35:30	300	103	3.0	#57 Velocity S	2	
0067.COMP	12	3:16	00:39:58	+40:35:30	300	103	3.0	#57 Velocity S	2	
0068.M31	90	3:22	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	2	
0069.M31	90	3:23	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	2	
0070.COMP	12	3:25	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	2	
0071.2M23015572+5209513	1800	4:02	23:01:55.7	+52:09:51	300	90	3.0	#141 Mapping t	2	
0072.COMP	12	4:33	23:01:55.7	+52:09:51	300	90	3.0	#141 Mapping t	2	
0073.sn2005kf	2400	9:13	07:47:26.5	+26:55:32	300	109	3.0	#2 SN Observat	2	
0074.COMP	12	9:53	07:47:26.5	+26:55:32	300	109	3.0	#2 SN Observat	2	
0075-0084.BIAS	0	12:16	10:49:52.2	22:39:16	300	80	3.0	#166 Hyper Vel	2	
0085-0104.FLAT	16	12:26	10:49:52.2	22:39:16	300	90	3.0	#166 Hyper Vel	2	
0105-0114.DARK	900	14:44	10:49:52.2	22:39:16	300	90	3.0	#166 Hyper Vel	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001.DARK	900	22:56	21:46:07.9	+31:28:09	300	90	3.0	#166 Hyper Vel	4	
0002.DARK	900	23:11	22:01:15.1	+31:28:04	300	90	3.0	#166 Hyper Vel	4	
0003.DARK	900	23:26	22:16:25.9	+31:28:00	300	90	3.0	#166 Hyper Vel	4	
0004.DARK	900	23:41	22:31:33.1	+31:27:56	300	90	3.0	#166 Hyper Vel	4	
0005.DARK	900	23:56	22:46:43.9	+31:27:52	300	90	3.0	#166 Hyper Vel	4	
0006.DARK	900	0:11	23:01:50.6	+31:27:49	300	90	3.0	#166 Hyper Vel	4	
0007.DARK	900	0:27	23:17:01.3	+31:27:47	300	90	3.0	#166 Hyper Vel	4	
0008-0017.BIAS	0	0:50	23:25:55.6	+31:27:46	300	90	3.0	#166 Hyper Vel	4	
0018-0020.FLAT	8	0:52	23:27:30.7	+31:27:46	300	90	3.0	#166 Hyper Vel	4	
0021-0027.FLAT	8	0:54	23:29:11.0	+31:27:45	300	90	3.0	#166 Hyper Vel	4	
0028-0037.BIAS	0	0:56	23:31:33.9	+31:27:45	300	90	3.0	#166 Hyper Vel	2	
0038-0048.FLAT	16	1:02	23:37:21.2	+31:27:45	300	90	3.0	#166 Hyper Vel	2	
0049-0057.FLAT	16	1:06	23:41:37.3	+31:27:44	300	90	3.0	#166 Hyper Vel	2	
0058.BDp284211	60	1:22	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	4	
0059.BDp284211	60	1:24	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	4	
0060.COMP	5	1:25	21:51:11.1	28:51:53	300	90	3.0	#56 Spectropho	4	
0061.BDp284211	50	1:26	21:51:11.1	28:51:53	300	76	3.0	#56 Spectropho	2	
0062.BDp284211	50	1:27	21:51:11.1	28:51:53	300	76	3.0	#56 Spectropho	2	
0063.COMP	12	1:28	21:51:11.1	28:51:53	300	76	3.0	#56 Spectropho	2	
0064.BDp174708	25	1:31	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG

UT Date 2005-12-21

Observers M Calkins

Coll. Focus 986

Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0065.BDp174708	25	1:31	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	4	
0066.BDp174708	25	1:32	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	4	
0067.COMP	5	1:33	22:11:31.4	18:05:33	300	90	3.0	#56 Spectropho	4	
0068.BDp174708	23	1:34	22:11:31.4	18:05:33	300	57	3.0	#56 Spectropho	2	
0069.BDp174708	23	1:34	22:11:31.4	18:05:33	300	57	3.0	#56 Spectropho	2	
0070.BDp174708	23	1:35	22:11:31.4	18:05:33	300	57	3.0	#56 Spectropho	2	
0071.COMP	12	1:36	22:11:31.4	18:05:33	300	57	3.0	#56 Spectropho	2	
0072.Akn564	180	1:38	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0073.Akn564	180	1:42	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0074.COMP	12	1:46	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0075.N7469	120	1:49	23:03:15.7	+08:52:27	300	100	3.0	#6 AGN Monitor	2	
0076.N7469	120	1:51	23:03:15.7	+08:52:27	300	100	3.0	#6 AGN Monitor	2	
0077.COMP	12	1:55	23:03:15.7	+08:52:27	300	100	3.0	#6 AGN Monitor	2	
0078.2M21281039+6538416	1080	2:00	21:28:10.3	+65:38:41	300	95	3.0	#141 Mapping t	2	try again, see next file
0079.COMP	12	2:19	21:28:10.3	+65:38:41	300	95	3.0	#141 Mapping t	2	
0080.2M21281039+6538416	1800	2:20	21:28:10.3	+65:38:41	300	97	3.0	#141 Mapping t	2	
0081.COMP	12	2:50	21:28:10.3	+65:38:41	300	97	3.0	#141 Mapping t	2	
0082.PUVu1	1	2:52	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	
0083.PUVu1	10	2:53	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	
0084.PUVu1	5	2:53	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	



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Coll. Focus 986 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0085.PUVul	90	2:54	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	
0086.COMP	12	2:56	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic	2	
0087.2M21284307+6236080	1800	2:59	21:28:43.0	+62:36:08	300	50	3.0	#141 Mapping t	2	
0088.COMP	12	3:29	21:28:43.0	+62:36:08	300	50	3.0	#141 Mapping t	2	
0089.RAqr	0	3:33	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0090.RAqr	1	3:33	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0091.RAqr	5	3:34	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0092.RAqr	10	3:34	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0093.COMP	12	3:35	23:43:49	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0094.ZAnd	1	3:37	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0095.ZAnd	5	3:38	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0096.ZAnd	30	3:38	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0097.COMP	12	3:39	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0098.2M23020858+3930005	300	3:42	23:02:08.5	+39:30:00	300	80	3.0	#141 Mapping t	2	
0099.COMP	12	3:48	23:02:08.5	+39:30:00	300	80	3.0	#141 Mapping t	2	
0100.2M23015572+5209513	720	3:50	23:01:55.7	+52:09:51	300	90	3.0	#141 Mapping t	2	
0101.COMP	12	4:02	23:01:55.7	+52:09:51	300	90	3.0	#141 Mapping t	2	
0102.2M23022644+4506405	780	4:04	23:02:26.4	+45:06:40	300	70	3.0	#141 Mapping t	2	
0103.COMP	12	4:17	23:02:26.4	+45:06:40	300	70	3.0	#141 Mapping t	2	
0104.2M23022726+3231375	360	4:19	23:02:27.2	+32:31:37	300	90	3.0	#141 Mapping t	2	



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Observers M Calkins

Coll. Focus 986

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0105.COMP	12	4:25	23:02:27.2	+32:31:37	300	90	3.0	#141 Mapping t	2	
0106.2M23025652+0834475	900	4:27	23:02:56.5	+08:34:47	300	90	3.0	#141 Mapping t	2	
0107.COMP	12	4:42	23:02:56.5	+08:34:47	300	90	3.0	#141 Mapping t	2	
0108.EGAnd	1	4:44	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0109.EGAnd	5	4:44	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0110.EGAnd	10	4:45	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0111.EGAnd	0	4:45	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0112.COMP	12	4:46	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic	2	
0113.AXPer	4	4:47	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0114.AXPer	30	4:48	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0115.AXPer	90	4:48	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0116.COMP	12	4:50	1:36:23	54:15:03	300	90	3.0	#12 Symbiotic	2	
0117.sn20051s	1200	4:56	02:54:15.9	42:43:29	300	-35	3.0	#2 SN Observat	2	
0118.COMP	12	5:19	02:54:15.9	42:43:29	300	-35	3.0	#2 SN Observat	2	
0119.sn2005ke	900	5:25	03:35:04.3	-24:56:38	300	6	3.0	#2 SN Observat	2	
0120.COMP	12	5:41	03:35:04.3	-24:56:38	300	6	3.0	#2 SN Observat	2	
0121.0397_08	1020	5:45	02:56:27.4	15:53:56	300	90	3.0	#160 2MACS	2	
0122.COMP	12	6:02	02:56:27.4	15:53:56	300	90	3.0	#160 2MACS	2	
0123.0397_09	1200	6:03	02:56:39.8	15:49:47	300	90	3.0	#160 2MACS	2	
0124.COMP	12	6:24	02:56:39.8	15:49:47	300	90	3.0	#160 2MACS	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0125.0397_10	1500	6:25	02:57:9.9	15:32:22	300	90	3.0	#160 2MACS	2	
0126.COMP	12	6:50	02:57:9.9	15:32:22	300	90	3.0	#160 2MACS	2	
0127.0397_11	1320	6:51	02:57:12.1	16:14:25	300	90	3.0	#160 2MACS	2	
0128.COMP	12	7:15	02:57:12.1	16:14:25	300	90	3.0	#160 2MACS	2	
0129.0397_12	1200	7:17	02:57:41.1	15:54:55	300	90	3.0	#160 2MACS	2	
0130.COMP	12	7:38	02:57:41.1	15:54:55	300	90	3.0	#160 2MACS	2	
0131.0407_07	1500	7:40	03:01:49.8	35:44:34	300	90	3.0	#160 2MACS	2	
0132.COMP	12	8:06	03:01:49.8	35:44:34	300	90	3.0	#160 2MACS	2	
0133.GITau	240	8:09	4:33:34	24:21:18	300	90	3.0	#12 Symbiotic	2	
0134.COMP	12	8:13	4:33:34	24:21:18	300	90	3.0	#12 Symbiotic	2	
0135.GKTau	240	8:14	4:33:34.5	24:21:07	300	90	3.0	#12 Symbiotic	2	
0136.COMP	12	8:19	4:33:34.5	24:21:07	300	90	3.0	#12 Symbiotic	2	
0137.cvso-009830	300	8:20	04:58:29.2	+02:02:16	300	80	3.0	#112 Orion PMS	2	
0138.COMP	12	8:26	04:58:29.2	+02:02:16	300	80	3.0	#112 Orion PMS	2	
0139.cvso-010091	420	8:27	04:58:47.0	+02:15:02	300	90	3.0	#112 Orion PMS	2	
0140.COMP	12	8:35	04:58:47.0	+02:15:02	300	90	3.0	#112 Orion PMS	2	
0141.cvso-010259	420	8:35	04:58:56.1	+01:54:43	300	90	3.0	#112 Orion PMS	2	
0142.COMP	12	8:43	04:58:56.1	+01:54:43	300	90	3.0	#112 Orion PMS	2	
0143.cvso-011240	540	8:44	05:00:11.6	+01:51:08	300	90	3.0	#112 Orion PMS	2	
0144.COMP	12	8:54	05:00:11.6	+01:51:08	300	90	3.0	#112 Orion PMS	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0145.cvso-012675	1200	8:55	05:00:37.7	+02:24:08	300	90	3.0	#112 Orion PMS	2	
0146.COMP	12	9:16	05:00:37.7	+02:24:08	300	90	3.0	#112 Orion PMS	2	
0147.BGgem	300	9:17	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0148.COMP	12	9:23	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0149.BGgem	1200	9:24	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0150.COMP	12	9:44	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0151.BXMon	15	9:46	7:25:23	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0152.BXMon	180	9:46	7:25:23	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0153.COMP	12	9:50	7:25:23	-03:35:51	300	90	3.0	#12 Symbiotic	2	
0154.bcand359	1320	9:59	7:43:54.2	45:36:53	600	90	2.0	#166 Hyper Vel	4	600L, 2arcsec, tilt=440
0155.COMP	10	10:21	7:43:54.2	45:36:53	600	90	2.0	#166 Hyper Vel	4	
0156.bcand360	1680	10:23	7:44:10.5	27:19:20	600	90	2.0	#166 Hyper Vel	4	
0157.COMP	10	10:52	7:44:10.5	27:19:20	600	90	2.0	#166 Hyper Vel	4	
0158.bcand361	1320	10:54	7:46:33.0	35:10:22	600	90	2.0	#166 Hyper Vel	4	
0159.COMP	10	11:16	7:46:33.0	35:10:22	600	90	2.0	#166 Hyper Vel	4	
0160.bcand469	1140	11:18	9:40:10.8	49:57:53	600	90	2.0	#166 Hyper Vel	4	
0161.COMP	10	11:37	9:40:10.8	49:57:53	600	90	2.0	#166 Hyper Vel	4	
0162.bcand470	660	11:39	9:41:16.5	34:51:01	600	105	2.0	#166 Hyper Vel	4	
0163.COMP	10	11:50	9:41:16.5	34:51:01	600	105	2.0	#166 Hyper Vel	4	
0164.bcand471	1320	11:52	9:41:43.5	53:58:33	600	90	2.0	#166 Hyper Vel	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0165.COMP	10	12:14	9:41:43.5	53:58:33	600	90	2.0	#166 Hyper Vel	4	
0166.Feige34	70	12:16	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0167.COMP	10	12:18	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0168-0177.FLAT	24	12:23	10:39:36.8	43:06:10	600	90	2.0	#166 Hyper Vel	4	
0178.Feige34	60	12:35	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	combo setup
0179.COMP	12	12:36	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0180.sn2005k1	900	12:39	12:24:35.6	+39:23:03	300	67	3.0	#2 SN Observat	2	
0181.COMP	12	12:55	12:24:35.6	+39:23:03	300	67	3.0	#2 SN Observat	2	
0182.MRK421	300	13:07	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0183.MRK421	300	13:12	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0184.MRK421	300	13:18	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0185.COMP	12	13:23	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0186.N3227	150	13:25	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0187.N3227	150	13:28	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0188.COMP	12	13:32	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0189-0198.BIAS	0	13:37	10:23:30.6	+19:51:54	300	90	3.0	#2 SN Observat	4	
0199-0208.FLAT	8	13:40	10:23:30.6	+19:51:54	300	90	3.0	#2 SN Observat	4	
0209-0218.BIAS	0	13:43	10:23:30.6	+19:51:54	300	90	3.0	#2 SN Observat	2	
0219-0238.FLAT	16	13:54	10:23:30.6	+19:51:54	300	90	3.0	#2 SN Observat	2	
0239-0245.DARK	900	15:26	10:23:30.6	+19:51:54	300	90	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.BIAS	0	23:48	22:26:52.3	+31:27:57	300	90	3.0	#2 SN Observat	4	
0011.FLAT	8	23:48	22:27:13.9	+31:27:57	300	90	3.0	#2 SN Observat	4	
0012-0020.FLAT	8	23:51	22:30:16.1	+31:27:56	300	90	3.0	#2 SN Observat	4	
0021-0025.BIAS	0	23:53	22:31:25.2	+31:27:56	300	90	3.0	#2 SN Observat	2	
0026-0030.BIAS	0	23:54	22:32:30.1	+31:27:55	300	90	3.0	#2 SN Observat	2	
0031-0036.FLAT	16	23:57	22:35:37.0	+31:27:55	300	90	3.0	#2 SN Observat	2	
0037-0045.FLAT	16	0:01	22:40:10.2	+31:27:54	300	90	3.0	#2 SN Observat	2	
0046-0050.FLAT	16	0:04	22:42:42.1	+31:27:53	300	90	3.0	#2 SN Observat	2	
0051-0055.sky	3	0:43	23:22:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	0:46	23:22:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.BDp284211	120	1:21	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropho	2	cirrus all over
0058.BDp284211	120	1:23	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropho	2	
0059.COMP	10	1:26	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropho	2	
0060.BDp174708	60	1:28	22:11:31.4	18:05:33	300	58	3.0	#56 Spectropho	2	
0061.BDp174708	120	1:29	22:11:31.4	18:05:33	300	58	3.0	#56 Spectropho	2	
0062.BDp174708	120	1:32	22:11:31.4	18:05:33	300	58	3.0	#56 Spectropho	2	
0063.COMP	10	1:35	22:11:31.4	18:05:33	300	58	3.0	#56 Spectropho	2	
0064.N7331	240	1:36	22:34:46.9	+34:09:43	300	90	3.0	#57 Velocity S	4	
0065.COMP	5	1:40	22:34:46.9	+34:09:43	300	90	3.0	#57 Velocity S	4	
0066.2M23013448+0831098	900	1:43	23:01:34.4	+08:31:09	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0067.COMP	5	1:58	23:01:34.4	+08:31:09	300	90	3.0	#141 Mapping t	4	hammer big band of clouds
0068.2M23015433+0729385	420	2:19	23:01:54.3	+07:29:38	300	90	3.0	#141 Mapping t	4	
0069.COMP	5	2:26	23:01:54.3	+07:29:38	300	90	3.0	#141 Mapping t	4	
0070.2M23053260+0845507	600	2:27	23:05:32.6	+08:45:50	300	90	3.0	#141 Mapping t	4	
0071.COMP	5	2:37	23:05:32.6	+08:45:50	300	90	3.0	#141 Mapping t	4	
0072.2M23065617+0555057	480	2:38	23:06:56.1	+05:55:05	300	90	3.0	#141 Mapping t	4	
0073.COMP	5	2:47	23:06:56.1	+05:55:05	300	90	3.0	#141 Mapping t	4	
0074.2M23080365+1059026	300	2:47	23:08:03.6	+10:59:02	300	90	3.0	#141 Mapping t	4	
0075.COMP	5	2:53	23:08:03.6	+10:59:02	300	90	3.0	#141 Mapping t	4	
0076.2M23094066+0929454	420	2:53	23:09:40.6	+09:29:45	300	90	3.0	#141 Mapping t	4	
0077.COMP	5	3:00	23:09:40.6	+09:29:45	300	90	3.0	#141 Mapping t	4	
0078.2M23114554+0907107	330	3:01	23:11:45.5	+09:07:10	300	90	3.0	#141 Mapping t	4	
0079.COMP	5	3:07	23:11:45.5	+09:07:10	300	90	3.0	#141 Mapping t	4	
0080.2M23141274+1057271	480	3:08	23:14:12.7	+10:57:27	300	90	3.0	#141 Mapping t	4	
0081.COMP	5	3:16	23:14:12.7	+10:57:27	300	90	3.0	#141 Mapping t	4	
0082.2M23142026+1013531	330	3:17	23:14:20.2	+10:13:53	300	90	3.0	#141 Mapping t	4	
0083.COMP	5	3:22	23:14:20.2	+10:13:53	300	90	3.0	#141 Mapping t	4	
0084.2M23154751+1006489	300	3:24	23:15:47.5	+10:06:48	300	90	3.0	#141 Mapping t	4	
0085.COMP	5	3:29	23:15:47.5	+10:06:48	300	90	3.0	#141 Mapping t	4	
0086.2M23184352+0923190	330	3:30	23:18:43.5	+09:23:19	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0087.COMP	5	3:35	23:18:43.5	+09:23:19	300	90	3.0	#141 Mapping t	4	
0088.2M23551621-0125234	270	3:36	23:55:16.2	-01:25:23	300	90	3.0	#141 Mapping t	4	
0089.COMP	5	3:41	23:55:16.2	-01:25:23	300	90	3.0	#141 Mapping t	4	
0090.2M23592217+0152330	270	3:42	23:59:22.1	+01:52:33	300	90	3.0	#141 Mapping t	4	
0091.COMP	5	3:46	23:59:22.1	+01:52:33	300	90	3.0	#141 Mapping t	4	
0092.2M23571821+0537375	420	3:47	23:57:18.2	+05:37:37	300	90	3.0	#141 Mapping t	4	
0093.COMP	5	3:54	23:57:18.2	+05:37:37	300	90	3.0	#141 Mapping t	4	
0094.2M23442248+0248515	600	3:55	23:44:22.4	+02:48:51	300	90	3.0	#141 Mapping t	4	
0095.COMP	5	4:05	23:44:22.4	+02:48:51	300	90	3.0	#141 Mapping t	4	
0096.2M23590655+0652231	420	4:06	23:59:06.5	+06:52:23	300	90	3.0	#141 Mapping t	4	
0097.COMP	5	4:13	23:59:06.5	+06:52:23	300	90	3.0	#141 Mapping t	4	
0098.2M23501693+0606231	420	4:14	23:50:16.9	+06:06:23	300	90	3.0	#141 Mapping t	4	
0099.COMP	5	4:21	23:50:16.9	+06:06:23	300	90	3.0	#141 Mapping t	4	
0100.2M23493765+0625103	450	4:22	23:49:37.6	+06:25:10	300	90	3.0	#141 Mapping t	4	
0101.COMP	5	4:29	23:49:37.6	+06:25:10	300	90	3.0	#141 Mapping t	4	
0102.2M23554260+1120355	600	4:30	23:55:42.6	+11:20:35	300	90	3.0	#141 Mapping t	4	
0103.COMP	5	4:41	23:55:42.6	+11:20:35	300	90	3.0	#141 Mapping t	4	
0104.2M03392505+3850474	300	4:42	03:39:25.0	+38:50:47	300	90	3.0	#141 Mapping t	4	
0105.COMP	5	4:49	03:39:25.0	+38:50:47	300	90	3.0	#141 Mapping t	4	
0106.sn20051s	1200	4:51	02:54:15.9	42:43:29	300	0	3.0	#2 SN Observat	2	



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0107.COMP	10	5:11	02:54:15.9	42:43:29	300	0	3.0	#2 SN Observat	2	
0108.2M03394459+1548035	360	5:13	03:39:44.6	+15:48:3	300	90	3.0	#141 Mapping t	4	
0109.COMP	5	5:19	03:39:44.6	+15:48:3	300	90	3.0	#141 Mapping t	4	
0110.2M03542323+1522409	900	5:20	03:54:23.2	+15:22:41	300	90	3.0	#141 Mapping t	4	
0111.COMP	5	5:36	03:54:23.2	+15:22:41	300	90	3.0	#141 Mapping t	4	
0112.2M03562202+3352292	20	5:37	03:56:22.0	+33:52:29	300	90	3.0	#141 Mapping t	4	northern clump PN
0113.2M03562202+3352292	20	5:37	03:56:22.0	+33:52:29	300	90	3.0	#141 Mapping t	4	southern clump PN
0114.COMP	5	5:38	03:56:22.0	+33:52:29	300	90	3.0	#141 Mapping t	4	not a gal
0115.2M03583338+3708375	1200	5:39	03:58:33.3	+37:08:37	300	90	3.0	#141 Mapping t	2	
0116.COMP	10	6:00	03:58:33.3	+37:08:37	300	90	3.0	#141 Mapping t	2	
0117.cvso-012890south	210	6:01	05:00:53.0	+02:22:49	300	90	3.0	#112 Orion PMS	4	
0118.cvso-012890north	210	6:05	05:00:53.0	+02:22:49	300	90	3.0	#112 Orion PMS	4	
0119.COMP	5	6:09	05:00:53.0	+02:22:49	300	90	3.0	#112 Orion PMS	4	
0120.cvso-011918	180	6:09	05:01:04.8	+01:56:34	300	90	3.0	#112 Orion PMS	4	
0121.COMP	5	6:13	05:01:04.8	+01:56:34	300	90	3.0	#112 Orion PMS	4	
0122.cvso-011773	240	6:13	05:00:54.2	+02:05:32	300	90	3.0	#112 Orion PMS	4	
0123.COMP	5	6:18	05:00:54.2	+02:05:32	300	90	3.0	#112 Orion PMS	4	
0124.cvso-013168	420	6:18	05:01:03.9	+03:38:31	300	90	3.0	#112 Orion PMS	4	
0125.COMP	5	6:26	05:01:03.9	+03:38:31	300	90	3.0	#112 Orion PMS	4	
0126.cvso-014371	240	6:27	05:03:56.7	+02:09:30	300	90	3.0	#112 Orion PMS	4	



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0127.COMP	5	6:31	05:03:56.7	+02:09:30	300	90	3.0	#112 Orion PMS	4	
0128.cvso-015349	180	6:32	05:05:01.0	+01:55:26	300	90	3.0	#112 Orion PMS	4	
0129.COMP	5	6:35	05:05:01.0	+01:55:26	300	90	3.0	#112 Orion PMS	4	
0130.cvso-015543	360	6:36	05:05:13.0	+02:07:54	300	90	3.0	#112 Orion PMS	4	
0131.COMP	5	6:42	05:05:13.0	+02:07:54	300	90	3.0	#112 Orion PMS	4	
0132.cvso-016121	180	6:43	05:05:50.4	+02:07:21	300	90	3.0	#112 Orion PMS	4	
0133.COMP	5	6:46	05:05:50.4	+02:07:21	300	90	3.0	#112 Orion PMS	4	
0134.cvso-016308north	420	6:47	05:06:04.8	+02:15:18	300	90	3.0	#112 Orion PMS	4	
0135.cvso-016308south	540	6:54	05:06:04.8	+02:15:18	300	90	3.0	#112 Orion PMS	4	
0136.COMP	5	7:03	05:06:04.8	+02:15:18	300	90	3.0	#112 Orion PMS	4	
0137.cvso-017342	540	7:04	05:05:39.4	+02:39:06	300	90	3.0	#112 Orion PMS	4	
0138.COMP	5	7:14	05:05:39.4	+02:39:06	300	90	3.0	#112 Orion PMS	4	
0139.cvso-019324	60	7:14	05:09:26.4	+01:46:15	300	90	3.0	#112 Orion PMS	4	
0140.COMP	5	7:15	05:09:26.4	+01:46:15	300	90	3.0	#112 Orion PMS	4	
0141.cvso-019374	240	7:16	05:09:32.6	+02:12:47	300	90	3.0	#112 Orion PMS	4	
0142.COMP	5	7:20	05:09:32.6	+02:12:47	300	90	3.0	#112 Orion PMS	4	
0143.cvso-020348	660	7:21	05:08:50.6	+02:43:20	300	90	3.0	#112 Orion PMS	4	
0144.COMP	5	7:32	05:08:50.6	+02:43:20	300	90	3.0	#112 Orion PMS	4	
0145.cvso-020419south	360	7:33	05:08:28.7	+03:46:44	300	90	3.0	#112 Orion PMS	4	
0146.cvso-020419north	480	7:39	05:08:28.7	+03:46:44	300	90	3.0	#112 Orion PMS	4	



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0147.COMP	5	7:48	05:08:28.7	+03:46:44	300	90	3.0	#112 Orion PMS	4	
0148.cvso-020843	600	7:48	05:08:51.0	+04:01:35	300	90	3.0	#112 Orion PMS	4	
0149.COMP	5	7:59	05:08:51.0	+04:01:35	300	90	3.0	#112 Orion PMS	4	
0150.cvso-021379	360	7:59	05:09:51.2	+02:39:55	300	90	3.0	#112 Orion PMS	4	
0151.COMP	5	8:05	05:09:51.2	+02:39:55	300	90	3.0	#112 Orion PMS	4	
0152.cvso-021498	240	8:06	05:11:51.4	+01:53:32	300	90	3.0	#112 Orion PMS	4	
0153.COMP	5	8:11	05:11:51.4	+01:53:32	300	90	3.0	#112 Orion PMS	4	
0154.cvso-021623	240	8:11	05:09:36.0	+03:43:42	300	90	3.0	#112 Orion PMS	4	
0155.COMP	5	8:15	05:09:36.0	+03:43:42	300	90	3.0	#112 Orion PMS	4	
0156.cvso-021916	240	8:16	05:12:17.1	+02:00:57	300	90	3.0	#112 Orion PMS	4	
0157.COMP	5	8:20	05:12:17.1	+02:00:57	300	90	3.0	#112 Orion PMS	4	
0158.cvso-022569	240	8:21	05:11:01.8	+02:51:37	300	90	3.0	#112 Orion PMS	4	
0159.COMP	5	8:25	05:11:01.8	+02:51:37	300	90	3.0	#112 Orion PMS	4	
0160.cvso-022854	240	8:26	05:13:12.0	+01:53:23	300	90	3.0	#112 Orion PMS	4	
0161.COMP	5	8:30	05:13:12.0	+01:53:23	300	90	3.0	#112 Orion PMS	4	
0162.cvso-023710	240	8:31	05:13:57.2	+01:53:34	300	90	3.0	#112 Orion PMS	4	
0163.COMP	5	8:35	05:13:57.2	+01:53:34	300	90	3.0	#112 Orion PMS	4	
0164.cvso-024247	240	8:36	05:12:07.8	+03:53:11	300	90	3.0	#112 Orion PMS	4	
0165.COMP	5	8:40	05:12:07.8	+03:53:11	300	90	3.0	#112 Orion PMS	4	
0166.cvso-026631	540	8:41	05:14:22.4	+04:05:56	300	90	3.0	#112 Orion PMS	4	



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0167.COMP	5	8:50	05:14:22.4	+04:05:56	300	90	3.0	#112 Orion PMS	4	
0168.cvso-061950	600	8:53	05:45:06.5	+01:46:43	300	90	3.0	#112 Orion PMS	4	
0169.COMP	5	9:03	05:45:06.5	+01:46:43	300	90	3.0	#112 Orion PMS	4	
0170.cvso-061394	210	9:04	05:44:41.3	+01:57:36	300	90	3.0	#112 Orion PMS	4	
0171.COMP	5	9:08	05:44:41.3	+01:57:36	300	90	3.0	#112 Orion PMS	4	
0172.cvso-061978	480	9:08	05:43:07.5	+02:46:14	300	90	3.0	#112 Orion PMS	4	
0173.COMP	5	9:16	05:43:07.5	+02:46:14	300	90	3.0	#112 Orion PMS	4	
0174.cvso-061996	360	9:17	05:41:07.4	+03:46:14	300	90	3.0	#112 Orion PMS	4	
0175.COMP	5	9:23	05:41:07.4	+03:46:14	300	90	3.0	#112 Orion PMS	4	
0176.cvso-062142	360	9:24	05:41:13.8	+04:02:30	300	90	3.0	#112 Orion PMS	4	
0177.COMP	5	9:30	05:41:13.8	+04:02:30	300	90	3.0	#112 Orion PMS	4	
0178.cvso-062333	660	9:31	05:43:23.0	+02:33:49	300	90	3.0	#112 Orion PMS	4	
0179.COMP	5	9:42	05:43:23.0	+02:33:49	300	90	3.0	#112 Orion PMS	4	
0180.cvso-062394	300	9:43	05:45:26.1	+01:55:17	300	90	3.0	#112 Orion PMS	4	
0181.COMP	5	9:48	05:45:26.1	+01:55:17	300	90	3.0	#112 Orion PMS	4	
0182.cvso-062580	420	9:49	05:43:35.0	+02:48:26	300	90	3.0	#112 Orion PMS	2	
0183.COMP	10	9:56	05:43:35.0	+02:48:26	300	90	3.0	#112 Orion PMS	2	
0184.cvso-062628	240	9:57	05:45:38.0	+01:54:06	300	90	3.0	#112 Orion PMS	4	
0185.COMP	5	10:01	05:45:38.0	+01:54:06	300	90	3.0	#112 Orion PMS	4	
0186.cvso-062755	240	10:01	05:45:44.1	+02:10:38	300	90	3.0	#112 Orion PMS	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0187.COMP	5	10:06	05:45:44.1	+02:10:38	300	90	3.0	#112 Orion PMS	4	
0188.cvso-063216	300	10:06	05:42:02.9	+03:35:44	300	90	3.0	#112 Orion PMS	4	
0189.COMP	5	10:12	05:42:02.9	+03:35:44	300	90	3.0	#112 Orion PMS	4	
0190.cvso-063559	600	10:13	05:44:18.8	+02:48:27	300	90	3.0	#112 Orion PMS	4	
0191.COMP	5	10:23	05:44:18.8	+02:48:27	300	90	3.0	#112 Orion PMS	4	
0192.cvso-063839	240	10:23	05:46:33.2	+02:13:28	300	90	3.0	#112 Orion PMS	4	
0193.COMP	5	10:28	05:46:33.2	+02:13:28	300	90	3.0	#112 Orion PMS	4	
0194.cvso-064277	480	10:28	05:44:51.5	+02:33:36	300	90	3.0	#112 Orion PMS	4	
0195.COMP	5	10:37	05:44:51.5	+02:33:36	300	90	3.0	#112 Orion PMS	4	
0196.cvso-097943	300	10:37	06:11:02.9	+02:05:30	300	90	3.0	#112 Orion PMS	4	
0197.COMP	5	10:43	06:11:02.9	+02:05:30	300	90	3.0	#112 Orion PMS	4	
0198.cvso-097992	330	10:43	06:11:04.5	+01:55:42	300	90	3.0	#112 Orion PMS	4	
0199.COMP	5	10:49	06:11:04.5	+01:55:42	300	90	3.0	#112 Orion PMS	4	
0200.cvso-098511	450	10:49	06:11:19.8	+01:54:47	300	90	3.0	#112 Orion PMS	4	
0201.COMP	5	10:57	06:11:19.8	+01:54:47	300	90	3.0	#112 Orion PMS	4	
0202.cvso-098638	360	10:58	06:11:23.3	+02:12:34	300	90	3.0	#112 Orion PMS	4	
0203.COMP	5	11:04	06:11:23.3	+02:12:34	300	90	3.0	#112 Orion PMS	4	
0204.2M11363076+4749015	330	11:06	11:36:30.7	+47:49:1	300	90	3.0	#141 Mapping t	4	
0205.COMP	5	11:12	11:36:30.7	+47:49:1	300	90	3.0	#141 Mapping t	4	
0206.2M11403248+3536277	330	11:13	11:40:32.4	+35:36:27	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0207.COMP	5	11:19	11:40:32.4	+35:36:27	300	90	3.0	#141 Mapping t	4	
0208.2M11461969+3500131	300	11:20	11:46:19.7	+35:00:13	300	90	3.0	#141 Mapping t	4	
0209.COMP	5	11:25	11:46:19.7	+35:00:13	300	90	3.0	#141 Mapping t	4	
0210.2M11463995+3546070	300	11:25	11:46:39.9	+35:46:7	300	90	3.0	#141 Mapping t	4	
0211.COMP	5	11:31	11:46:39.9	+35:46:7	300	90	3.0	#141 Mapping t	4	
0212.2M11464770+3455540	300	11:31	11:46:47.7	+34:55:54	300	90	3.0	#141 Mapping t	4	
0213.COMP	5	11:37	11:46:47.7	+34:55:54	300	90	3.0	#141 Mapping t	4	
0214.2M11523462+3748019	330	11:38	11:52:34.6	+37:48:2	300	90	3.0	#141 Mapping t	4	
0215.COMP	5	11:44	11:52:34.6	+37:48:2	300	90	3.0	#141 Mapping t	4	
0216.2M11544305+3332132	450	11:44	11:54:43.0	+33:32:13	300	90	3.0	#141 Mapping t	4	
0217.COMP	5	11:52	11:54:43.0	+33:32:13	300	90	3.0	#141 Mapping t	4	
0218.2M11552834+3457576	420	11:53	11:55:28.3	+34:57:57	300	90	3.0	#141 Mapping t	4	
0219.COMP	5	12:00	11:55:28.3	+34:57:57	300	90	3.0	#141 Mapping t	4	
0220.2M11555783+3605335	300	12:01	11:55:57.8	+36:05:33	300	90	3.0	#141 Mapping t	4	
0221.COMP	5	12:06	11:55:57.8	+36:05:33	300	90	3.0	#141 Mapping t	4	
0222.2M12003687+4327337	300	12:07	12:00:36.8	+43:27:33	300	90	3.0	#141 Mapping t	4	
0223.COMP	5	12:12	12:00:36.8	+43:27:33	300	90	3.0	#141 Mapping t	4	
0224.2M11562516+4951552	450	12:13	11:56:25.1	+49:51:55	300	90	3.0	#141 Mapping t	4	
0225.COMP	5	12:21	11:56:25.1	+49:51:55	300	90	3.0	#141 Mapping t	4	
0226.2M11553622+5040330	330	12:21	11:55:36.2	+50:40:33	300	90	3.0	#141 Mapping t	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG

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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0227.COMP	5	12:27	11:55:36.2	+50:40:33	300	90	3.0	#141 Mapping t	4	
0228.2M12011905+5634126	300	12:28	12:01:19.0	+56:34:12	300	90	3.0	#141 Mapping t	4	
0229.COMP	5	12:33	12:01:19.0	+56:34:12	300	90	3.0	#141 Mapping t	4	
0230.2M12000438+5836210	420	12:34	12:00:4.3	+58:36:21	300	90	3.0	#141 Mapping t	4	
0231.COMP	5	12:41	12:00:4.3	+58:36:21	300	90	3.0	#141 Mapping t	4	
0232.2M12192807+6055517	270	12:44	12:19:28.0	+60:55:51	300	90	3.0	#141 Mapping t	4	
0233.COMP	5	12:50	12:19:28.0	+60:55:51	300	90	3.0	#141 Mapping t	4	
0234.2M12252475+4838400	360	12:50	12:25:24.7	+48:38:40	300	90	3.0	#141 Mapping t	4	
0235.COMP	5	12:57	12:25:24.7	+48:38:40	300	90	3.0	#141 Mapping t	4	
0236.2M12253369+4604018	270	12:57	12:25:33.6	+46:04:1	300	90	3.0	#141 Mapping t	4	
0237.COMP	5	13:02	12:25:33.6	+46:04:1	300	90	3.0	#141 Mapping t	4	
0238.N4051	150	13:03	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0239.N4051	150	13:06	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0240.COMP	10	13:09	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0241.N5548	180	13:10	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0242.N5548	180	13:13	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0243.COMP	10	13:16	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0244.N4151	30	13:17	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0245.N4151	30	13:18	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0246.COMP	10	13:19	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	



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Coll. Focus 1000 _____ Grating/Grism 300 _____

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0247.Feige66	60	13:19	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0248.Feige66	60	13:21	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0249.Feige66	60	13:22	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0250.COMP	10	13:23	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0251.N4853	180	13:24	12:58:35.1	+27:35:47	300	90	3.0	#57 Velocity S	4	
0252.COMP	5	13:28	12:58:35.1	+27:35:47	300	90	3.0	#57 Velocity S	4	
0253-0262.BIAS	0	13:30	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	4	
0263-0272.FLAT	8	13:33	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	4	
0273-0282.BIAS	0	13:36	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	2	
0283-0292.FLAT	16	13:41	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	2	
0293-0297.DARK	900	14:50	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	4	
0298-0302.DARK	900	16:06	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	2	



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Coll. Focus 1000 _____ Grating/Grism 300 _____

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.BIAS	0	0:00	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	4	
0011-0020.FLAT	8	0:03	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	4	
0021-0030.BIAS	0	0:05	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	2	
0031-0050.FLAT	16	0:15	12:58:35.1	+27:35:47	300	90	3.0	#112 Orion PMS	2	
0051-0055.sky	3	0:43	23:25:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	0:44	23:25:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.BDp174708	45	1:27	22:11:31.4	18:05:33	300	58	3.0	#56 Spectropro	2	
0058.BDp174708	45	1:28	22:11:31.4	18:05:33	300	58	3.0	#56 Spectropro	2	
0059.COMP	10	1:29	22:11:31.4	18:05:33	300	58	3.0	#56 Spectropro	2	
0060.BDp284211	100	1:31	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropro	2	
0061.BDp284211	100	1:32	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropro	2	
0062.COMP	10	1:35	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropro	2	
0063.HD189733	4	1:37	20:00:43.7	+22:42:39	300	90	3.0	#99 Other	2	
0064.HD189733	4	1:37	20:00:43.7	+22:42:39	300	90	3.0	#99 Other	2	
0065.HD189733B	30	1:38	20:00:42.9	+22:42:34	300	90	3.0	#99 Other	2	for Dave Latham
0066.HD189733B	120	1:39	20:00:42.9	+22:42:34	300	110	3.0	#99 Other	2	
0067.HD189733B	120	1:42	20:00:42.9	+22:42:34	300	110	3.0	#99 Other	2	
0068.COMP	10	1:44	20:00:42.9	+22:42:34	300	110	3.0	#99 Other	2	
0069.sn2005kc	1200	1:48	22:34:07.3	+05:34:06	300	47	3.0	#2 SN Observat	2	
0070.COMP	10	2:08	22:34:07.3	+05:34:06	300	47	3.0	#2 SN Observat	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0071.2M23123955+0244529	330	2:10	23:12:39.5	+02:44:52	300	47	3.0	#141 Mapping t	4	
0072.COMP	5	2:16	23:12:39.5	+02:44:52	300	47	3.0	#141 Mapping t	4	
0073.2M23154275+0855391	480	2:17	23:15:42.7	+08:55:39	300	47	3.0	#141 Mapping t	4	
0074.COMP	5	2:25	23:15:42.7	+08:55:39	300	47	3.0	#141 Mapping t	4	
0075.2M22492578-0344494	600	2:27	22:49:25.7	-03:44:49	300	90	3.0	#141 Mapping t	4	
0076.COMP	5	2:37	22:49:25.7	-03:44:49	300	90	3.0	#141 Mapping t	4	
0077.2M22550285-0309103	330	2:38	22:55:02.8	-03:09:10	300	90	3.0	#141 Mapping t	4	
0078.COMP	5	2:44	22:55:02.8	-03:09:10	300	90	3.0	#141 Mapping t	4	
0079.2M22553195+0355046	330	2:44	22:55:31.9	+03:55:04	300	90	3.0	#141 Mapping t	4	
0080.COMP	5	2:50	22:55:31.9	+03:55:04	300	90	3.0	#141 Mapping t	4	
0081.2M22575541+0351400	420	2:51	22:57:55.4	+03:51:40	300	90	3.0	#141 Mapping t	4	
0082.COMP	5	2:59	22:57:55.4	+03:51:40	300	90	3.0	#141 Mapping t	4	
0083.2M22531943+0516443	360	2:59	22:53:19.4	+05:16:44	300	90	3.0	#141 Mapping t	4	
0084.COMP	5	3:05	22:53:19.4	+05:16:44	300	90	3.0	#141 Mapping t	4	
0085.2M22532626+0518423	300	3:06	22:53:26.2	+05:18:42	300	90	3.0	#141 Mapping t	4	
0086.COMP	5	3:11	22:53:26.2	+05:18:42	300	90	3.0	#141 Mapping t	4	
0087.2M22512807+1137552	300	3:12	22:51:28.0	+11:37:55	300	90	3.0	#141 Mapping t	4	
0088.COMP	5	3:17	22:51:28.0	+11:37:55	300	90	3.0	#141 Mapping t	4	
0089.2M23241975+0126293	300	3:18	23:24:19.7	+01:26:29	300	90	3.0	#141 Mapping t	4	
0090.COMP	5	3:23	23:24:19.7	+01:26:29	300	90	3.0	#141 Mapping t	4	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0091.2M23321034+0312286	300	3:24	23:32:10.3	+03:12:28	300	90	3.0	#141 Mapping t	4	
0092.COMP	5	3:29	23:32:10.3	+03:12:28	300	90	3.0	#141 Mapping t	4	
0093.2M23254631+0627130	330	3:30	23:25:46.3	+06:27:13	300	90	3.0	#141 Mapping t	4	
0094.COMP	5	3:35	23:25:46.3	+06:27:13	300	90	3.0	#141 Mapping t	4	
0095.sn20051u	1200	3:40	02:36:03.7	-17:15:50	300	0	3.0	#2 SN Observat	2	
0096.COMP	10	4:00	02:36:03.7	-17:15:50	300	0	3.0	#2 SN Observat	2	
0097.2M23274259+0845298	300	4:02	23:27:42.5	+08:45:29	300	0	3.0	#141 Mapping t	4	
0098.COMP	5	4:08	23:27:42.5	+08:45:29	300	0	3.0	#141 Mapping t	4	
0099.2M23292445+0947040	300	4:09	23:29:24.4	+09:47:04	300	0	3.0	#141 Mapping t	4	
0100.COMP	5	4:14	23:29:24.4	+09:47:04	300	0	3.0	#141 Mapping t	4	
0101.sn20051y	1500	4:16	01:23:28.8	+30:46:45	300	81	3.0	#2 SN Observat	2	
0102.COMP	10	4:42	01:23:28.8	+30:46:45	300	81	3.0	#2 SN Observat	2	
0103.sn2005ke	900	4:44	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0104.COMP	10	5:00	03:35:04.3	-24:56:38	300	0	3.0	#2 SN Observat	2	
0105.2M23573027+4319399	390	5:03	23:57:30.2	+43:19:39	300	90	3.0	#141 Mapping t	4	
0106.COMP	5	5:10	23:57:30.2	+43:19:39	300	90	3.0	#141 Mapping t	4	
0107.2M23573296+3245329	270	5:10	23:57:32.9	+32:45:32	300	90	3.0	#141 Mapping t	4	
0108.COMP	5	5:15	23:57:32.9	+32:45:32	300	90	3.0	#141 Mapping t	4	
0109.2M23580996+3343262	240	5:16	23:58:09.9	+33:43:26	300	90	3.0	#141 Mapping t	4	
0110.COMP	5	5:20	23:58:09.9	+33:43:26	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0111.2M03593753+4149135	420	5:21	23:59:37.5	+41:49:13	300	90	3.0	#141 Mapping t	4	
0112.COMP	5	5:28	23:59:37.5	+41:49:13	300	90	3.0	#141 Mapping t	4	
0113.2M03594102+4650344	240	5:30	23:59:41.0	+46:50:34	300	90	3.0	#141 Mapping t	4	
0114.COMP	5	5:34	23:59:41.0	+46:50:34	300	90	3.0	#141 Mapping t	4	
0115.NGC1700	180	5:38	04:56:58.1	-04:52:23	300	90	3.0	#57 Velocity S	4	
0116.COMP	5	5:41	04:56:58.1	-04:52:23	300	90	3.0	#57 Velocity S	4	
0117.2M04294332+0055553	300	5:42	04:29:43.3	+00:55:55	300	90	3.0	#141 Mapping t	4	
0118.COMP	5	5:48	04:29:43.3	+00:55:55	300	90	3.0	#141 Mapping t	4	
0119.2M04311207+0240415	600	5:48	04:31:12.0	+02:40:41	300	90	3.0	#141 Mapping t	4	
0120.COMP	5	5:58	04:31:12.0	+02:40:41	300	90	3.0	#141 Mapping t	4	
0121.2M04325095+0143032	240	5:59	04:32:50.9	+01:43:3	300	90	3.0	#141 Mapping t	4	
0122.COMP	5	6:04	04:32:50.9	+01:43:3	300	90	3.0	#141 Mapping t	4	
0123.2M04343200+0140568	330	6:04	04:34:31.9	+01:40:56	300	90	3.0	#141 Mapping t	4	
0124.COMP	5	6:10	04:34:31.9	+01:40:56	300	90	3.0	#141 Mapping t	4	
0125.2M04345248+1000142	420	6:11	04:34:52.4	+10:00:14	300	90	3.0	#141 Mapping t	4	
0126.COMP	5	6:18	04:34:52.4	+10:00:14	300	90	3.0	#141 Mapping t	4	
0127.2M04311613+1155577	720	6:19	04:31:16.1	+11:55:57	300	90	3.0	#141 Mapping t	4	
0128.COMP	5	6:31	04:31:16.1	+11:55:57	300	90	3.0	#141 Mapping t	4	
0129.2M04250102+1250102	900	6:32	04:25:1.0	+12:50:10	300	90	3.0	#141 Mapping t	4	
0130.COMP	5	6:47	04:25:1.0	+12:50:10	300	90	3.0	#141 Mapping t	4	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0131.2M04270122+0412131	900	6:48	04:27:1.2	+04:12:13	300	90	3.0	#141 Mapping t	2	target gal at row 84
0132.COMP	10	7:03	04:27:1.2	+04:12:13	300	90	3.0	#141 Mapping t	2	Please also extract little friend to east at row 102
0133.2M04380542+0853211	600	7:04	04:38:5.4	+08:53:21	300	90	3.0	#141 Mapping t	4	
0134.COMP	5	7:14	04:38:5.4	+08:53:21	300	90	3.0	#141 Mapping t	4	
0135.2M04381440+0840071	360	7:15	04:38:14.4	+08:40:7	300	90	3.0	#141 Mapping t	4	
0136.COMP	5	7:21	04:38:14.4	+08:40:7	300	90	3.0	#141 Mapping t	4	
0137.Akn120	330	7:22	05:13:38.0	-00:12:15	300	23	3.0	#6 AGN Monitor	2	moon and increasing clouds
0138.COMP	10	7:28	05:13:38.0	-00:12:15	300	23	3.0	#6 AGN Monitor	2	
0139.cvso-024390	300	7:30	05:14:34.5	+02:13:17	300	90	3.0	#112 Orion PMS	4	
0140.COMP	5	7:36	05:14:34.5	+02:13:17	300	90	3.0	#112 Orion PMS	4	
0141.cvso-024695	270	7:36	05:14:52.5	+01:54:47	300	90	3.0	#112 Orion PMS	4	
0142.COMP	5	7:41	05:14:52.5	+01:54:47	300	90	3.0	#112 Orion PMS	4	stopped by clouds
0143.2M11003697+4405509	360	10:02	11:00:36.9	+44:05:51	300	90	3.0	#141 Mapping t	4	
0144.COMP	5	10:09	11:00:36.9	+44:05:51	300	90	3.0	#141 Mapping t	4	
0145.2M11081188+4207111	360	10:09	11:08:11.9	+42:07:10	300	90	3.0	#141 Mapping t	4	sucker hole
0146.COMP	5	10:16	11:08:11.9	+42:07:10	300	90	3.0	#141 Mapping t	4	
0147.2M11151879+3830269	360	11:39	11:15:18.7	+38:30:27	300	90	3.0	#141 Mapping t	4	
0148.COMP	5	11:46	11:15:18.7	+38:30:27	300	90	3.0	#141 Mapping t	4	
0149.2M12323250+4828199	300	12:03	12:32:32.5	+48:28:20	300	90	3.0	#141 Mapping t	4	
0150.COMP	5	12:08	12:32:32.5	+48:28:20	300	90	3.0	#141 Mapping t	4	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0151.2M12363854+4745260	360	12:09	12:35:38.5	+47:45:26	300	90	3.0	#141 Mapping t	4	
0152.COMP	5	12:16	12:35:38.5	+47:45:26	300	90	3.0	#141 Mapping t	4	
0153.2M12363373+4832466	240	12:16	12:36:33.7	+48:32:46	300	90	3.0	#141 Mapping t	4	
0154.COMP	5	12:21	12:36:33.7	+48:32:46	300	90	3.0	#141 Mapping t	4	
0155.2M12423897+4832092	240	12:21	12:42:38.9	+48:32:9	300	90	3.0	#141 Mapping t	4	
0156.COMP	5	12:26	12:42:38.9	+48:32:9	300	90	3.0	#141 Mapping t	4	
0157.2M12364528+4338367	300	12:27	12:36:45.2	+43:38:36	300	90	3.0	#141 Mapping t	2	c1ouds
0158.COMP	10	12:32	12:36:45.2	+43:38:36	300	90	3.0	#141 Mapping t	2	
0159-0168.BIAS	0	12:38	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	4	
0169-0178.FLAT	8	12:41	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	4	
0179-0188.BIAS	0	12:44	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	2	
0189-0198.FLAT	16	12:49	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	2	
0199-0203.DARK	900	13:58	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	4	
0204-0208.DARK	900	15:14	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.BIAS	0	23:31	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	4	
0011-0020.FLAT	8	23:35	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	4	
0021-0030.BIAS	0	23:37	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	2	
0031-0050.FLAT	16	23:47	12:37:35.5	+44:48:3	300	90	3.0	#57 Velocity S	2	
0051-0055.sky	3	0:44	23:30:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	0:44	23:30:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.BDp174708	90	1:21	22:11:31.4	18:05:33	300	58	3.0	#56 Spectro	2	
0058.BDp174708	90	1:22	22:11:31.4	18:05:33	300	58	3.0	#56 Spectro	2	
0059.BDp174708	90	1:24	22:11:31.4	18:05:33	300	58	3.0	#56 Spectro	2	
0060.COMP	10	1:26	22:11:31.4	18:05:33	300	58	3.0	#56 Spectro	2	
0061.BDp284211	150	1:27	21:51:11.1	28:51:53	300	77	3.0	#56 Spectro	2	
0062.BDp284211	150	1:30	21:51:11.1	28:51:53	300	77	3.0	#56 Spectro	2	
0063.COMP	10	1:33	21:51:11.1	28:51:53	300	77	3.0	#56 Spectro	2	
0064.ZAnd	5	1:35	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0065.ZAnd	15	1:36	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0066.ZAnd	60	1:36	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0067.COMP	5	1:38	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0068.2M23183386+4253089	720	1:49	23:18:33.8	+42:53:08	300	90	3.0	#141 Mapping t	4	a lot of clouds
0069.COMP	5	2:01	23:18:33.8	+42:53:08	300	90	3.0	#141 Mapping t	4	
0070.2M23191385+3331570	480	2:03	23:19:13.8	+33:31:57	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0071.COMP	5	2:11	23:19:13.8	+33:31:57	300	90	3.0	#141 Mapping t	4	
0072.2M23192668+4255300	330	2:12	23:19:26.6	+42:55:30	300	90	3.0	#141 Mapping t	4	
0073.COMP	5	2:18	23:19:26.6	+42:55:30	300	90	3.0	#141 Mapping t	4	
0074.2M23334702+1604443	360	2:19	23:23:47.0	+16:04:44	300	90	3.0	#141 Mapping t	4	this is the northern clump
0075.COMP	5	2:26	23:23:47.0	+16:04:44	300	90	3.0	#141 Mapping t	4	
0076.2M23280071+1612025	600	2:26	23:28:00.7	+16:12:02	300	90	3.0	#141 Mapping t	4	
0077.COMP	5	2:37	23:28:00.7	+16:12:02	300	90	3.0	#141 Mapping t	4	
0078.2M23214826+1012149	300	2:39	23:21:48.2	+10:12:14	300	90	3.0	#141 Mapping t	4	
0079.COMP	5	2:44	23:21:48.2	+10:12:14	300	90	3.0	#141 Mapping t	4	
0080.2M23230533+1037035	270	2:45	23:23:05.3	+10:37:03	300	90	3.0	#141 Mapping t	4	
0081.COMP	5	2:50	23:23:05.3	+10:37:03	300	90	3.0	#141 Mapping t	4	
0082.2M23341514+0950208	480	2:51	23:34:15.1	+09:50:20	300	90	3.0	#141 Mapping t	4	
0083.COMP	5	2:59	23:34:15.1	+09:50:20	300	90	3.0	#141 Mapping t	4	
0084.2M23355099+1005479	270	3:00	23:35:50.9	+10:05:47	300	90	3.0	#141 Mapping t	4	
0085.COMP	5	3:05	23:35:50.9	+10:05:47	300	90	3.0	#141 Mapping t	4	
0086.2M23345130+1210540	270	3:05	23:34:51.3	+12:10:54	300	90	3.0	#141 Mapping t	4	
0087.COMP	5	3:11	23:34:51.3	+12:10:54	300	90	3.0	#141 Mapping t	4	
0088.2M23354918+1649287	300	3:12	23:35:49.1	+16:49:28	300	90	3.0	#141 Mapping t	4	just a little thin cirrus coming and going
0089.COMP	5	3:17	23:35:49.1	+16:49:28	300	90	3.0	#141 Mapping t	4	
0090.sn2005hk	1800	3:20	00:27:50.8	-01:11:52	300	37	3.0	#2 SN Observat	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0091.COMP	10	3:50	00:27:50.8	-01:11:52	300	37	3.0	#2 SN Observat	2	
0092.2M23335563+1208213	300	3:53	23:33:55.6	+12:08:21	300	37	3.0	#141 Mapping t	4	
0093.COMP	5	3:58	23:33:55.6	+12:08:21	300	37	3.0	#141 Mapping t	4	
0094.2M23363711+0954274	600	3:59	23:36:37.1	+09:54:27	300	37	3.0	#141 Mapping t	4	
0095.COMP	5	4:09	23:36:37.1	+09:54:27	300	37	3.0	#141 Mapping t	4	
0096.2M23373772+0909572	330	4:10	23:37:37.7	+09:09:57	300	37	3.0	#141 Mapping t	4	
0097.COMP	5	4:16	23:37:37.7	+09:09:57	300	37	3.0	#141 Mapping t	4	
0098.2M23424525+0829064	300	4:16	23:42:45.2	+08:29:06	300	37	3.0	#141 Mapping t	4	
0099.COMP	5	4:22	23:42:45.2	+08:29:06	300	37	3.0	#141 Mapping t	4	
0100.2M23474901+0726349	300	4:23	23:47:49.0	+07:26:34	300	50	3.0	#141 Mapping t	4	
0101.COMP	5	4:28	23:47:49.0	+07:26:34	300	50	3.0	#141 Mapping t	4	
0102.2M23481565+0903115	300	4:28	23:48:15.6	+09:03:11	300	50	3.0	#141 Mapping t	4	
0103.COMP	5	4:34	23:48:15.6	+09:03:11	300	50	3.0	#141 Mapping t	4	
0104.2M23492148+0940201	300	4:35	23:49:21.4	+09:40:20	300	50	3.0	#141 Mapping t	4	
0105.COMP	5	4:40	23:49:21.4	+09:40:20	300	50	3.0	#141 Mapping t	4	
0106.sn20051s	1200	4:42	02:54:15.9	42:43:29	300	90	3.0	#2 SN Observat	2	
0107.COMP	10	5:02	02:54:15.9	42:43:29	300	90	3.0	#2 SN Observat	2	
0108.225m280	240	5:07	00:41:45.1	+41:05:12	300	90	3.0	#57 Velocity S	4	
0109.COMP	5	5:11	00:41:45.1	+41:05:12	300	90	3.0	#57 Velocity S	4	
0110.cvso-025861	240	5:13	05:16:04.4	+02:14:41	300	90	3.0	#112 Orion PMS	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0111.COMP	5	5:18	05:16:04.4	+02:14:41	300	90	3.0	#112 Orion PMS	4	
0112.cvso-026181	210	5:18	05:16:20.8	+02:14:00	300	90	3.0	#112 Orion PMS	4	
0113.COMP	5	5:22	05:16:20.8	+02:14:00	300	90	3.0	#112 Orion PMS	4	
0114.cvso-026529	180	5:22	05:16:40.9	+01:59:44	300	90	3.0	#112 Orion PMS	4	
0115.COMP	5	5:26	05:16:40.9	+01:59:44	300	90	3.0	#112 Orion PMS	4	
0116.cvso-027333	360	5:26	05:15:01.5	+03:46:03	300	90	3.0	#112 Orion PMS	4	
0117.COMP	5	5:33	05:15:01.5	+03:46:03	300	90	3.0	#112 Orion PMS	4	
0118.cvso-027411	150	5:33	05:17:29.3	+02:13:08	300	90	3.0	#112 Orion PMS	4	
0119.COMP	5	5:36	05:17:29.3	+02:13:08	300	90	3.0	#112 Orion PMS	4	
0120.cvso-027415	120	5:37	05:17:29.4	+02:06:59	300	90	3.0	#112 Orion PMS	2	
0121.COMP	10	5:39	05:17:29.4	+02:06:59	300	90	3.0	#112 Orion PMS	2	
0122.cvso-027502	240	5:41	05:17:34.4	+02:11:03	300	90	3.0	#112 Orion PMS	4	
0123.COMP	5	5:45	05:17:34.4	+02:11:03	300	90	3.0	#112 Orion PMS	4	
0124.cvso-027533	330	5:46	05:15:11.4	+03:37:14	300	90	3.0	#112 Orion PMS	4	
0125.COMP	5	5:52	05:15:11.4	+03:37:14	300	90	3.0	#112 Orion PMS	4	
0126.cvso-027533	360	5:52	05:15:11.4	+03:37:14	300	90	3.0	#112 Orion PMS	4	
0127.COMP	5	5:58	05:15:11.4	+03:37:14	300	90	3.0	#112 Orion PMS	4	
0128.cvso-028217	270	5:59	05:15:42.4	+03:56:29	300	90	3.0	#112 Orion PMS	4	
0129.COMP	5	6:04	05:15:42.4	+03:56:29	300	90	3.0	#112 Orion PMS	4	
0130.cvso-028457	270	6:05	05:18:25.8	+02:08:08	300	90	3.0	#112 Orion PMS	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0131.COMP	5	6:10	05:18:25.8	+02:08:08	300	90	3.0	#112 Orion PMS	4	
0132.cvso-028714	180	6:11	05:18:39.6	+01:51:37	300	90	3.0	#112 Orion PMS	4	
0133.COMP	5	6:14	05:18:39.6	+01:51:37	300	90	3.0	#112 Orion PMS	4	
0134.cvso-029134	120	6:15	05:19:01.5	+01:55:21	300	90	3.0	#112 Orion PMS	4	
0135.COMP	5	6:17	05:19:01.5	+01:55:21	300	90	3.0	#112 Orion PMS	4	
0136.cvso-029725	330	6:17	05:19:32.4	+02:07:59	300	90	3.0	#112 Orion PMS	4	
0137.COMP	5	6:23	05:19:32.4	+02:07:59	300	90	3.0	#112 Orion PMS	4	
0138.cvso-029726	390	6:24	05:19:32.3	+02:05:10	300	90	3.0	#112 Orion PMS	4	
0139.COMP	5	6:31	05:19:32.3	+02:05:10	300	90	3.0	#112 Orion PMS	4	
0140.cvso-030153	120	6:31	05:19:54.0	+02:13:11	300	90	3.0	#112 Orion PMS	4	
0141.COMP	5	6:33	05:19:54.0	+02:13:11	300	90	3.0	#112 Orion PMS	4	
0142.cvso-030781	330	6:34	05:20:32.0	+02:09:45	300	90	3.0	#112 Orion PMS	4	
0143.COMP	5	6:40	05:20:32.0	+02:09:45	300	90	3.0	#112 Orion PMS	4	
0144.cvso-030883	120	6:40	05:20:37.4	+01:58:45	300	90	3.0	#112 Orion PMS	4	
0145.COMP	5	6:42	05:20:37.4	+01:58:45	300	90	3.0	#112 Orion PMS	4	
0146.cvso-031112	420	6:43	05:19:11.6	+02:46:23	300	90	3.0	#112 Orion PMS	4	
0147.COMP	5	6:50	05:19:11.6	+02:46:23	300	90	3.0	#112 Orion PMS	4	
0148.cvso-031153	120	6:51	05:20:53.6	+02:07:45	300	60	3.0	#112 Orion PMS	4	
0149.COMP	5	6:54	05:20:53.6	+02:07:45	300	60	3.0	#112 Orion PMS	4	
0150.cvso-032307	300	6:54	05:21:54.2	+01:55:02	300	90	3.0	#112 Orion PMS	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0151.COMP	5	7:01	05:21:54.2	+01:55:02	300	90	3.0	#112 Orion PMS	4	
0152.cvso-032484	240	7:01	05:22:03.9	+01:53:29	300	90	3.0	#112 Orion PMS	4	
0153.COMP	5	7:08	05:22:03.9	+01:53:29	300	90	3.0	#112 Orion PMS	4	
0154.cvso-032562	480	7:09	05:20:25.7	+02:49:26	300	90	3.0	#112 Orion PMS	4	
0155.COMP	5	7:17	05:20:25.7	+02:49:26	300	90	3.0	#112 Orion PMS	4	
0156.cvso-032779	240	7:18	05:22:19.5	+02:11:44	300	90	3.0	#112 Orion PMS	4	
0157.COMP	5	7:22	05:22:19.5	+02:11:44	300	90	3.0	#112 Orion PMS	4	
0158.cvso-032934	240	7:22	05:22:29.6	+02:08:06	300	90	3.0	#112 Orion PMS	4	
0159.COMP	5	7:27	05:22:29.6	+02:08:06	300	90	3.0	#112 Orion PMS	4	
0160.cvso-033078	300	7:27	05:22:38.0	+01:54:26	300	90	3.0	#112 Orion PMS	4	
0161.COMP	5	7:33	05:22:38.0	+01:54:26	300	90	3.0	#112 Orion PMS	4	
0162.cvso-033586	300	7:33	05:23:08.3	+01:56:21	300	90	3.0	#112 Orion PMS	4	
0163.COMP	5	7:39	05:23:08.3	+01:56:21	300	90	3.0	#112 Orion PMS	4	
0164.cvso-033664	240	7:39	05:21:21.0	+02:35:03	300	90	3.0	#112 Orion PMS	4	
0165.COMP	5	7:44	05:21:21.0	+02:35:03	300	90	3.0	#112 Orion PMS	4	
0166.cvso-033680	420	7:45	05:23:12.8	+01:46:50	300	90	3.0	#112 Orion PMS	4	
0167.COMP	5	7:52	05:23:12.8	+01:46:50	300	90	3.0	#112 Orion PMS	4	
0168.cvso-033866	600	7:53	05:23:21.8	+01:58:35	300	90	3.0	#112 Orion PMS	4	
0169.COMP	5	8:03	05:23:21.8	+01:58:35	300	90	3.0	#112 Orion PMS	4	
0170.cvso-034033	420	8:04	05:23:30.8	+01:51:19	300	90	3.0	#112 Orion PMS	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0171.COMP	5	8:11	05:23:30.8	+01:51:19	300	90	3.0	#112 Orion PMS	4	
0172.cvso-034042	420	8:12	05:23:30.8	+01:45:49	300	90	3.0	#112 Orion PMS	4	
0173.COMP	5	8:20	05:23:30.8	+01:45:49	300	90	3.0	#112 Orion PMS	4	
0174.cvso-034283	240	8:21	05:23:43.5	+01:54:44	300	90	3.0	#112 Orion PMS	4	
0175.COMP	5	8:26	05:23:43.5	+01:54:44	300	90	3.0	#112 Orion PMS	4	
0176.cvso-034355	240	8:26	05:23:46.5	+01:45:16	300	90	3.0	#112 Orion PMS	4	
0177.COMP	5	8:31	05:23:46.5	+01:45:16	300	90	3.0	#112 Orion PMS	4	
0178.cvso-034355	150	8:31	05:23:46.5	+01:45:16	300	90	3.0	#112 Orion PMS	4	
0179.COMP	5	8:34	05:23:46.5	+01:45:16	300	90	3.0	#112 Orion PMS	4	
0180.cvso-035126	240	8:35	05:22:38.6	+02:45:50	300	90	3.0	#112 Orion PMS	4	
0181.COMP	5	8:40	05:22:38.6	+02:45:50	300	90	3.0	#112 Orion PMS	4	
0182.cvso-035285	120	8:41	05:24:31.6	+01:57:06	300	90	3.0	#112 Orion PMS	4	
0183.COMP	5	8:43	05:24:31.6	+01:57:06	300	90	3.0	#112 Orion PMS	4	
0184.cvso-035590	210	8:44	05:24:44.9	+01:59:46	300	90	3.0	#112 Orion PMS	4	
0185.COMP	5	8:48	05:24:44.9	+01:59:46	300	90	3.0	#112 Orion PMS	4	
0186.cvso-036163	360	8:49	05:25:11.0	+02:13:34	300	90	3.0	#112 Orion PMS	2	
0187.COMP	10	8:55	05:25:11.0	+02:13:34	300	90	3.0	#112 Orion PMS	2	
0188.cvso-036237south	240	8:56	05:25:15.4	+02:09:05	300	90	3.0	#112 Orion PMS	4	
0189.cvso-036237north	360	9:00	05:25:15.4	+02:09:05	300	90	3.0	#112 Orion PMS	4	
0190.COMP	5	9:06	05:25:15.4	+02:09:05	300	90	3.0	#112 Orion PMS	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0191.cvso-036440	330	9:07	05:23:46.4	+02:24:03	300	90	3.0	#112 Orion PMS	4	
0192.COMP	5	9:13	05:23:46.4	+02:24:03	300	90	3.0	#112 Orion PMS	4	
0193.cvso-036662	420	9:13	05:25:34.3	+01:52:20	300	90	3.0	#112 Orion PMS	4	
0194.COMP	5	9:21	05:25:34.3	+01:52:20	300	90	3.0	#112 Orion PMS	4	
0195.cvso-036752	150	9:21	05:25:37.9	+02:12:22	300	90	3.0	#112 Orion PMS	4	
0196.COMP	5	9:24	05:25:37.9	+02:12:22	300	90	3.0	#112 Orion PMS	4	
0197.cvso-03692south	270	9:25	05:24:10.6	+02:50:51	300	90	3.0	#112 Orion PMS	4	
0198.cvso-03692north	270	9:29	05:24:10.6	+02:50:51	300	90	3.0	#112 Orion PMS	4	
0199.COMP	5	9:34	05:24:10.6	+02:50:51	300	90	3.0	#112 Orion PMS	4	
0200.cvso-037606	390	9:35	05:24:41.5	+02:31:36	300	90	3.0	#112 Orion PMS	4	
0201.COMP	5	9:42	05:24:41.5	+02:31:36	300	90	3.0	#112 Orion PMS	4	
0202.cvso-061287	210	9:46	05:44:36.2	+01:56:20	300	55	3.0	#112 Orion PMS	4	
0203.COMP	5	9:50	05:44:36.2	+01:56:20	300	55	3.0	#112 Orion PMS	4	
0204.cvso-061303	300	9:51	05:44:37.3	+01:55:44	300	55	3.0	#112 Orion PMS	4	
0205.COMP	5	9:56	05:44:37.3	+01:55:44	300	55	3.0	#112 Orion PMS	4	
0206.cvso-065673	480	9:57	05:43:53.6	+03:47:01	300	55	3.0	#112 Orion PMS	4	
0207.COMP	5	10:05	05:43:53.6	+03:47:01	300	55	3.0	#112 Orion PMS	4	
0208.cvso-064375	540	10:05	05:44:55.5	+02:50:47	300	55	3.0	#112 Orion PMS	4	
0209.COMP	5	10:15	05:44:55.5	+02:50:47	300	55	3.0	#112 Orion PMS	4	
0210.cvso-064721	720	10:16	05:45:10.9	+02:35:21	300	55	3.0	#112 Orion PMS	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0211.COMP	5	10:28	05:45:10.9	+02:35:21	300	55	3.0	#112 Orion PMS	4	
0212.cvso-098938	420	10:29	06:11:31.9	+01:55:22	300	55	3.0	#112 Orion PMS	4	
0213.COMP	5	10:36	06:11:31.9	+01:55:22	300	55	3.0	#112 Orion PMS	4	
0214.cvso-099039	720	10:37	06:11:35.0	+01:51:38	300	55	3.0	#112 Orion PMS	4	
0215.COMP	5	10:49	06:11:35.0	+01:51:38	300	55	3.0	#112 Orion PMS	4	
0216.2M1203411+4649281	300	10:52	11:20:34.1	+46:49:28	300	90	3.0	#141 Mapping t	4	
0217.COMP	5	10:57	11:20:34.1	+46:49:28	300	90	3.0	#141 Mapping t	4	
0218.2M1230133+4703088	240	10:58	11:23:1.3	+47:03:8	300	90	3.0	#141 Mapping t	4	
0219.COMP	5	11:02	11:23:1.3	+47:03:8	300	90	3.0	#141 Mapping t	4	
0220.2M1245864+4708363	360	11:03	11:24:58.6	+47:08:36	300	90	3.0	#141 Mapping t	4	
0221.COMP	5	11:09	11:24:58.6	+47:08:36	300	90	3.0	#141 Mapping t	4	
0222.2M1234895+3705107	300	11:10	11:23:48.9	+37:05:10	300	90	3.0	#141 Mapping t	4	
0223.COMP	5	11:15	11:23:48.9	+37:05:10	300	90	3.0	#141 Mapping t	4	
0224.2M1282422+3337397	300	11:15	11:28:24.2	+33:37:39	300	90	3.0	#141 Mapping t	4	
0225.COMP	5	11:21	11:28:24.2	+33:37:39	300	90	3.0	#141 Mapping t	4	
0226.2M12250026+4009264	360	11:21	12:25:0.2	+40:09:26	300	90	3.0	#141 Mapping t	4	
0227.COMP	5	11:28	12:25:0.2	+40:09:26	300	90	3.0	#141 Mapping t	4	
0228.2M12373554+4448034	300	11:28	12:37:35.5	+44:48:3	300	90	3.0	#141 Mapping t	4	
0229.COMP	5	11:34	12:37:35.5	+44:48:3	300	90	3.0	#141 Mapping t	4	
0230.2M12413465+4429293	300	11:35	12:41:34.6	+44:29:29	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0231.COMP	5	11:40	12:41:34.6	+44:29:29	300	90	3.0	#141 Mapping t	4	
0232.2M12382172+4212196	240	11:40	12:38:21.7	+42:12:19	300	90	3.0	#141 Mapping t	4	
0233.COMP	5	11:45	12:38:21.7	+42:12:19	300	90	3.0	#141 Mapping t	4	
0234.sn2005k1	900	11:47	12:24:35.6	+39:23:03	300	77	3.0	#2 SN Observat	2	
0235.COMP	10	12:02	12:24:35.6	+39:23:03	300	77	3.0	#2 SN Observat	2	
0236.2M12492846+3713488	270	12:04	12:49:28.4	+37:13:48	300	90	3.0	#141 Mapping t	4	
0237.COMP	5	12:09	12:49:28.4	+37:13:48	300	90	3.0	#141 Mapping t	4	
0238.2M12523956+4006110	270	12:09	12:52:39.5	+40:06:11	300	70	3.0	#141 Mapping t	4	
0239.COMP	5	12:14	12:52:39.5	+40:06:11	300	70	3.0	#141 Mapping t	4	
0240.2M12484657+4139162	270	12:15	12:48:46.5	+41:39:16	300	90	3.0	#141 Mapping t	4	
0241.COMP	5	12:20	12:48:46.5	+41:39:16	300	90	3.0	#141 Mapping t	4	
0242.2M12482869+4217513	270	12:20	12:48:28.7	+42:17:51	300	90	3.0	#141 Mapping t	4	
0243.COMP	5	12:25	12:48:28.7	+42:17:51	300	90	3.0	#141 Mapping t	4	
0244.2M12544003+4352121	240	12:26	12:54:40.0	+43:52:12	300	90	3.0	#141 Mapping t	4	
0245.COMP	5	12:30	12:54:40.0	+43:52:12	300	90	3.0	#141 Mapping t	4	
0246.2M12544891+4409201	360	12:31	12:54:48.9	+44:09:20	300	90	3.0	#141 Mapping t	4	
0247.COMP	5	12:37	12:54:48.9	+44:09:20	300	90	3.0	#141 Mapping t	4	
0248.2M12505475+4745521	300	12:39	12:50:54.7	+47:45:52	300	90	3.0	#141 Mapping t	4	
0249.COMP	5	12:44	12:50:54.7	+47:45:52	300	90	3.0	#141 Mapping t	4	
0250.2M13043546+4736411	210	12:45	13:04:35.4	+47:36:41	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0251.COMP	5	12:49	13:04:35.4	+47:36:41	300	90	3.0	#141 Mapping t	4	
0252.2M12594200+4345114	300	12:50	12:59:42.0	+43:45:11	300	90	3.0	#141 Mapping t	4	
0253.COMP	5	12:56	12:59:42.0	+43:45:11	300	90	3.0	#141 Mapping t	4	
0254.2M13024938+4312535	270	12:56	13:02:49.3	+43:12:53	300	90	3.0	#141 Mapping t	4	
0255.COMP	5	13:01	13:02:49.3	+43:12:53	300	90	3.0	#141 Mapping t	4	
0256.2M13023155+3828423	240	13:02	13:02:31.5	+38:28:42	300	90	3.0	#141 Mapping t	4	
0257.COMP	5	13:07	13:02:31.5	+38:28:42	300	90	3.0	#141 Mapping t	4	
0258.2M13041516+3524553	270	13:07	13:04:15.1	+35:24:55	300	90	3.0	#141 Mapping t	4	
0259.COMP	5	13:12	13:04:15.1	+35:24:55	300	90	3.0	#141 Mapping t	4	
0260.TXCvH	30	13:13	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	4	
0261.TXCvH	30	13:13	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	4	
0262.COMP	5	13:14	12:44:42	36:45:48	300	90	3.0	#12 Symbiotic	4	
0263.Feige66	60	13:16	12:37:23.4	25:04:01	300	90	3.0	#56 Spectrophoto	2	
0264.Feige66	60	13:18	12:37:23.4	25:04:01	300	90	3.0	#56 Spectrophoto	2	
0265.COMP	10	13:19	12:37:23.4	25:04:01	300	90	3.0	#56 Spectrophoto	2	
0266-0275.BIAS	0	13:22	12:37:23.4	25:04:01	300	90	3.0	#112 Orion PMS	4	
0276-0285.FLAT	8	13:25	12:37:23.4	25:04:01	300	90	3.0	#112 Orion PMS	4	
0286-0295.BIAS	0	13:27	12:37:23.4	25:04:01	300	90	3.0	#112 Orion PMS	2	
0296-0305.FLAT	16	13:32	12:37:23.4	25:04:01	300	90	3.0	#112 Orion PMS	2	
0306-0310.DARK	900	14:41	12:37:23.4	25:04:01	300	90	3.0	#112 Orion PMS	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0311-0315.DARK	900	15:58	12:37:23.4	25:04:01	300	90	3.0	#112 Orion PMS	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001.DARK	900	0:31	23:36:25.0	+31:27:45	300	90	3.0	#112 Orion PMS	4	
0002.DARK	900	0:46	23:51:35.1	+31:27:44	300	90	3.0	#112 Orion PMS	4	
0003-0004.DARK	900	1:16	00:21:53.0	+31:27:43	300	90	3.0	#112 Orion PMS	4	
0005-0014.BIAS	0	1:32	00:23:06.5	+31:27:43	300	90	3.0	#112 Orion PMS	4	
0015-0024.FLAT	8	1:36	00:26:39.1	+31:27:43	300	90	3.0	#112 Orion PMS	4	
0025-0034.BIAS	0	1:39	00:29:46.1	+31:27:43	300	90	3.0	#112 Orion PMS	2	
0035-0050.FLAT	16	1:46	00:37:34.5	+31:27:43	300	90	3.0	#112 Orion PMS	2	
0051-0054.FLAT	16	1:48	00:39:27.6	+31:27:44	300	90	3.0	#112 Orion PMS	2	
0055.BDp284211	60	1:52	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0056.BDp284211	60	1:53	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0057.COMP	5	1:56	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0058.BDp284211	50	1:57	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0059.BDp284211	50	1:58	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0060.COMP	12	2:00	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0061.BDp174708	20	2:01	22:11:31.4	18:05:33	300	62	3.0	#56 Spectropho	2	
0062.BDp174708	20	2:02	22:11:31.4	18:05:33	300	62	3.0	#56 Spectropho	2	
0063.BDp174708	20	2:03	22:11:31.4	18:05:33	300	62	3.0	#56 Spectropho	2	
0064.COMP	12	2:04	22:11:31.4	18:05:33	300	62	3.0	#56 Spectropho	2	
0065.M31	60	2:06	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	4	
0066.COMP	5	2:08	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0067.M31	60	2:08	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	2	
0068.COMP	12	2:10	00:40:00.0	+40:59:42	300	90	3.0	#57 Velocity S	2	
0069.2M22171627+0946355	540	2:12	22:17:16.2	+09:46:35	300	90	3.0	#141 Mapping t	2	
0070.COMP	12	2:22	22:17:16.2	+09:46:35	300	90	3.0	#141 Mapping t	2	
0071.2M22202024+0452119	480	2:23	22:20:20.2	+04:52:11	300	90	3.0	#141 Mapping t	2	
0072.COMP	12	2:32	22:20:20.2	+04:52:11	300	90	3.0	#141 Mapping t	2	
0073.2M22244972-0154323	900	2:33	22:24:49.7	-01:54:32	300	90	3.0	#141 Mapping t	2	
0074.COMP	12	2:48	22:24:49.7	-01:54:32	300	90	3.0	#141 Mapping t	2	
0075.2M22250678+0422150	720	2:50	22:25:06.7	+04:22:15	300	90	3.0	#141 Mapping t	2	
0076.COMP	12	3:02	22:25:06.7	+04:22:15	300	90	3.0	#141 Mapping t	2	
0077.2M22251067+4243072	420	3:04	22:25:10.6	+42:43:07	300	90	3.0	#141 Mapping t	2	
0078.COMP	12	3:12	22:25:10.6	+42:43:07	300	90	3.0	#141 Mapping t	2	
0079.2M22254771+3834140	420	3:14	22:25:47.7	+38:34:14	300	90	3.0	#141 Mapping t	2	
0080.COMP	12	3:22	22:25:47.7	+38:34:14	300	90	3.0	#141 Mapping t	2	
0081.2M22260345+5054514	720	3:24	22:26:03.4	+50:54:51	300	90	3.0	#141 Mapping t	2	
0082.COMP	12	3:36	22:26:03.4	+50:54:51	300	90	3.0	#141 Mapping t	2	
0083.2M22262386+3924503	540	3:38	22:26:23.8	+39:24:50	300	90	3.0	#141 Mapping t	2	
0084.COMP	12	3:48	22:26:23.8	+39:24:50	300	90	3.0	#141 Mapping t	2	
0085.sn20051u	1200	3:52	02:36:03.7	-17:15:50	300	10	3.0	#2 SN Observat	2	
0086.COMP	12	4:12	02:36:03.7	-17:15:50	300	10	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0087.sn20051x	1500	4:19	02:22:39.0	28:15:07	300	68	3.0	#2 SN Observat	2	row=73
0088.COMP	12	4:44	02:22:39.0	28:15:07	300	68	3.0	#2 SN Observat	2	
0089.0147_01	300	4:46	01:07:18.3	02:02:13	300	90	3.0	#160 2MACS	2	
0090.COMP	12	4:52	01:07:18.3	02:02:13	300	90	3.0	#160 2MACS	2	
0091.0147_02	1080	4:54	01:07:34.6	02:24:10	300	90	3.0	#160 2MACS	2	
0092.COMP	12	5:12	01:07:34.6	02:24:10	300	90	3.0	#160 2MACS	2	
0093.0147_03	1020	5:13	01:07:38.3	02:15:27	300	90	3.0	#160 2MACS	2	
0094.COMP	12	5:30	01:07:38.3	02:15:27	300	90	3.0	#160 2MACS	2	
0095.0147_04	1500	5:31	01:07:59.2	01:55:58	300	90	3.0	#160 2MACS	2	
0096.COMP	12	5:57	01:07:59.2	01:55:58	300	90	3.0	#160 2MACS	2	
0097.0147_05	1020	5:58	01:08:5.5	02:12:17	300	90	3.0	#160 2MACS	2	
0098.COMP	12	6:15	01:08:5.5	02:12:17	300	90	3.0	#160 2MACS	2	
0099.0397_13	1800	6:18	02:57:52.7	15:55:55	300	70	3.0	#160 2MACS	2	
0100.COMP	12	6:48	02:57:52.7	15:55:55	300	70	3.0	#160 2MACS	2	
0101.0397_14	1200	6:49	02:58:6.8	16:36:51	300	90	3.0	#160 2MACS	2	
0102.COMP	12	7:10	02:58:6.8	16:36:51	300	90	3.0	#160 2MACS	2	
0103.0397_15	1500	7:12	02:58:16.8	16:21:27	300	100	3.0	#160 2MACS	2	
0104.COMP	12	7:37	02:58:16.8	16:21:27	300	100	3.0	#160 2MACS	2	
0105.0407_08	900	7:39	03:01:52.1	35:51:20	300	100	3.0	#160 2MACS	2	
0106.COMP	12	7:55	03:01:52.1	35:51:20	300	100	3.0	#160 2MACS	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0107.0407_09	1500	7:56	03:02:26.4	35:30:55	300	80	3.0	#160 2MACS	2	
0108.COMP	12	8:22	03:02:26.4	35:30:55	300	80	3.0	#160 2MACS	2	
0109.bcand362	1740	8:28	7:46:42.6	18:00:22	600	90	2.0	#166 Hyper Vel	4	600L, 2arcsec, tilt=440
0110.COMP	10	8:58	7:46:42.6	18:00:22	600	90	2.0	#166 Hyper Vel	4	
0111.bcand363	1320	8:59	7:49:56.0	35:56:31	600	90	2.0	#166 Hyper Vel	4	
0112.COMP	10	9:21	7:49:56.0	35:56:31	600	90	2.0	#166 Hyper Vel	4	
0113.bcand364	1140	9:23	7:50:55.2	47:28:22	600	80	2.0	#166 Hyper Vel	4	
0114.COMP	10	9:44	7:50:55.2	47:28:22	600	80	2.0	#166 Hyper Vel	4	
0115.bcand365	960	9:46	7:52:09.5	28:57:06	600	90	2.0	#166 Hyper Vel	4	
0116.COMP	10	10:03	7:52:09.5	28:57:06	600	90	2.0	#166 Hyper Vel	4	
0117.bcand366	1620	10:07	7:52:39.8	25:35:50	600	0	2.0	#166 Hyper Vel	4	
0118.COMP	10	10:34	7:52:39.8	25:35:50	600	0	2.0	#166 Hyper Vel	4	
0119.bcand367	1680	10:36	7:53:20.4	49:40:05	600	90	2.0	#166 Hyper Vel	4	
0120.COMP	10	11:04	7:53:20.4	49:40:05	600	90	2.0	#166 Hyper Vel	4	
0121.bcand368	1440	11:06	7:54:27.7	18:56:24	600	90	2.0	#166 Hyper Vel	4	
0122.COMP	10	11:31	7:54:27.7	18:56:24	600	90	2.0	#166 Hyper Vel	4	
0123.bcand369	1440	11:33	7:55:07.4	23:43:16	600	70	2.0	#166 Hyper Vel	4	
0124.COMP	10	11:57	7:55:07.4	23:43:16	600	70	2.0	#166 Hyper Vel	4	
0125.bcand479	1260	11:59	10:01:40.9	38:35:55	600	70	2.0	#166 Hyper Vel	4	
0126.COMP	10	12:20	10:01:40.9	38:35:55	600	70	2.0	#166 Hyper Vel	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0127.Feige34	50	12:21	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0128.COMP	10	12:22	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0129-0138.FLAT	24	12:28	10:39:36.8	43:06:10	600	90	2.0	#166 Hyper Vel	4	
0139.sn2005cs	1800	12:36	13:29:53.3	+47:10:28	300	67	3.0	#2 SN Observat	2	combo setup, row=74
0140.COMP	12	13:07	13:29:53.3	+47:10:28	300	67	3.0	#2 SN Observat	2	
0141.N3227	150	13:10	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0142.N3227	150	13:12	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0143.COMP	12	13:16	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0144.Feige34	50	13:18	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0145.COMP	12	13:20	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0146-0155.BIAS	0	13:23	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	4	
0156-0165.FLAT	8	13:27	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	4	
0166-0175.BIAS	0	13:30	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	2	
0176-0195.FLAT	16	13:41	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	2	
0196-0205.DARK	900	15:59	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	2	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	0:56	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	4	
0011-0020.BIAS	0	1:13	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	4	
0021-0030.FLAT	8	1:15	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	4	
0031-0040.BIAS	0	1:19	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	2	
0041-0060.FLAT	16	1:29	10:39:36.8	43:06:10	300	90	3.0	#2 SN Observat	2	
0061.BDp284211	70	1:32	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0062.BDp284211	70	1:33	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0063.COMP	5	1:35	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0064.BDp284211	70	1:35	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0065.BDp284211	70	1:37	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0066.BDp284211	70	1:38	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0067.COMP	12	1:40	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0068.BDp174708	27	1:51	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0069.BDp174708	27	1:52	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0070.BDp174708	27	1:52	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0071.COMP	12	1:53	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0072.BDp284211	60	1:55	21:51:11.1	28:51:53	300	74	3.0	#56 Spectropho	2	
0073.BDp284211	60	1:56	21:51:11.1	28:51:53	300	74	3.0	#56 Spectropho	2	
0074.BDp284211	60	1:57	21:51:11.1	28:51:53	300	74	3.0	#56 Spectropho	2	
0075.COMP	12	1:59	21:51:11.1	28:51:53	300	74	3.0	#56 Spectropho	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0076.2M22262854+4009573	1200	2:01	22:26:28.5	+40:09:57	300	90	3.0	#141 Mapping t	2	
0077.COMP	12	2:21	22:26:28.5	+40:09:57	300	90	3.0	#141 Mapping t	2	
0078.2M22263359+4038503	360	2:24	22:26:33.5	+40:38:50	300	90	3.0	#141 Mapping t	2	
0079.COMP	12	2:30	22:26:33.5	+40:38:50	300	90	3.0	#141 Mapping t	2	
0080.2M22270840+3912397	360	2:32	22:27:08.4	+39:12:39	300	90	3.0	#141 Mapping t	2	
0081.COMP	12	2:38	22:27:08.4	+39:12:39	300	90	3.0	#141 Mapping t	2	
0082.2M22271899+4005508	900	2:40	22:27:18.9	+40:05:50	300	90	3.0	#141 Mapping t	2	
0083.COMP	12	2:55	22:27:18.9	+40:05:50	300	90	3.0	#141 Mapping t	2	
0084.2M22272832+3931547	1200	2:58	22:27:28.3	+39:31:54	300	105	3.0	#141 Mapping t	2	
0085.COMP	12	3:18	22:27:28.3	+39:31:54	300	105	3.0	#141 Mapping t	2	
0086.2M22282288+5049351	1260	3:21	22:28:22.8	+50:49:35	300	70	3.0	#141 Mapping t	2	row=75
0087.COMP	12	3:43	22:28:22.8	+50:49:35	300	70	3.0	#141 Mapping t	2	
0088.2M22282411+3509123	720	3:45	22:28:24.1	+35:09:12	300	90	3.0	#141 Mapping t	2	
0089.COMP	12	3:58	22:28:24.1	+35:09:12	300	90	3.0	#141 Mapping t	2	
0090.2M22495193+5306490	1200	4:01	22:49:51.9	+53:06:49	300	100	3.0	#141 Mapping t	2	
0091.COMP	12	4:21	22:49:51.9	+53:06:49	300	100	3.0	#141 Mapping t	2	
0092.0147_06	1500	4:23	01:08:7.2	02:23:36	300	100	3.0	#160 2MACS	2	
0093.COMP	12	4:49	01:08:7.2	02:23:36	300	100	3.0	#160 2MACS	2	
0094.sn2005ke	900	4:52	03:35:04.3	-24:56:38	300	3	3.0	#2 SN Observat	2	
0095.COMP	12	5:08	03:35:04.3	-24:56:38	300	3	3.0	#2 SN Observat	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0096.0397_16	1260	5:11	02:58:18.6	16:13:36	300	90	3.0	#160 2MACS	2	clouds coming in...
0097.COMP	12	5:32	02:58:18.6	16:13:36	300	90	3.0	#160 2MACS	2	
0098.0407_01	1500	5:36	02:58:45.3	35:55:23	300	90	3.0	#160 2MACS	2	
0099.COMP	12	6:01	02:58:45.3	35:55:23	300	90	3.0	#160 2MACS	2	
0100.0407_02	1800	6:02	02:59:0.0	35:52:31	300	90	3.0	#160 2MACS	2	
0101.COMP	12	6:33	02:59:0.0	35:52:31	300	90	3.0	#160 2MACS	2	
0102.cvso-036764	180	6:38	05:25:38.8	+02:01:30	300	90	3.0	#112 Orion PMS	2	
0103.COMP	12	6:41	05:25:38.8	+02:01:30	300	90	3.0	#112 Orion PMS	2	
0104.cvso-036822	180	6:42	05:25:41.4	+01:58:03	300	90	3.0	#112 Orion PMS	2	
0105.COMP	12	6:46	05:25:41.4	+01:58:03	300	90	3.0	#112 Orion PMS	2	
0106.cvso-036845	180	6:47	05:25:43.0	+02:12:44	300	90	3.0	#112 Orion PMS	2	
0107.COMP	12	6:50	05:25:43.0	+02:12:44	300	90	3.0	#112 Orion PMS	2	
0108.cvso-036908	180	6:53	05:25:45.8	+01:45:50	300	90	3.0	#112 Orion PMS	2	
0109.COMP	12	6:56	05:25:45.8	+01:45:50	300	90	3.0	#112 Orion PMS	2	
0110.cvso-036934	180	6:57	05:25:46.5	+01:54:43	300	90	3.0	#112 Orion PMS	2	
0111.COMP	12	7:00	05:25:46.5	+01:54:43	300	90	3.0	#112 Orion PMS	2	
0112.cvso-037031	720	7:01	05:25:51.7	+01:47:36	300	90	3.0	#112 Orion PMS	2	
0113.COMP	12	7:14	05:25:51.7	+01:47:36	300	90	3.0	#112 Orion PMS	2	
0114.cvso-037641	600	7:15	05:26:20.5	+01:53:18	300	90	3.0	#112 Orion PMS	2	
0115.COMP	12	7:26	05:26:20.5	+01:53:18	300	90	3.0	#112 Orion PMS	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0116.cvso-037776	720	7:27	05:26:27.9	+02:09:29	300	90	3.0	#112 Orion PMS	2	
0117.COMP	12	7:39	05:26:27.9	+02:09:29	300	90	3.0	#112 Orion PMS	2	
0118.cvso-041969	480	7:43	05:26:30.9	+03:36:56	300	90	3.0	#112 Orion PMS	2	
0119.COMP	12	7:52	05:26:30.9	+03:36:56	300	90	3.0	#112 Orion PMS	2	
0120.cvso-039989	780	7:53	05:26:32.1	+02:52:04	300	90	3.0	#112 Orion PMS	2	
0121.COMP	12	8:06	05:26:32.1	+02:52:04	300	90	3.0	#112 Orion PMS	2	
0122.sn2005xx	2100	8:13	06:47:19.1	33:34:24	300	107	3.0	#2 SN Observat	2	row=71
0123.COMP	12	8:48	06:47:19.1	33:34:24	300	107	3.0	#2 SN Observat	2	
0124.cvso-040094	360	8:51	05:26:38.3	+02:22:10	300	90	3.0	#112 Orion PMS	2	
0125.COMP	12	8:58	05:26:38.3	+02:22:10	300	90	3.0	#112 Orion PMS	2	
0126.cvso-040304	300	8:58	05:26:46.8	+02:26:04	300	90	3.0	#112 Orion PMS	2	clearing...
0127.COMP	12	9:04	05:26:46.8	+02:26:04	300	90	3.0	#112 Orion PMS	2	
0128.cvso-038208	720	9:05	05:26:50.4	+01:55:04	300	90	3.0	#112 Orion PMS	2	
0129.COMP	12	9:17	05:26:50.4	+01:55:04	300	90	3.0	#112 Orion PMS	2	
0130.bcand370	1020	9:23	7:55:19.4	48:00:34	600	90	2.0	#166 Hyper Vel	4	600L, 2arcsec, tilt=440
0131.COMP	10	9:41	7:55:19.4	48:00:34	600	90	2.0	#166 Hyper Vel	4	
0132.bcand371	780	9:42	7:57:12.9	51:29:38	600	90	2.0	#166 Hyper Vel	4	
0133.COMP	10	9:55	7:57:12.9	51:29:38	600	90	2.0	#166 Hyper Vel	4	
0134.bcand372	660	9:56	7:57:33.6	52:06:58	600	90	2.0	#166 Hyper Vel	4	
0135.COMP	10	10:08	7:57:33.6	52:06:58	600	90	2.0	#166 Hyper Vel	4	

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0136.bcand373	720	10:09	7:58:27.9	35:53:59	600	80	2.0	#166 Hyper Vel	4	
0137.COMP	10	10:22	7:58:27.9	35:53:59	600	80	2.0	#166 Hyper Vel	4	
0138.bcand374	1020	10:23	7:59:33.6	51:26:36	600	90	2.0	#166 Hyper Vel	4	
0139.COMP	10	10:40	7:59:33.6	51:26:36	600	90	2.0	#166 Hyper Vel	4	
0140.bcand375	660	10:42	7:59:56.0	19:52:48	600	90	2.0	#166 Hyper Vel	4	
0141.COMP	10	10:53	7:59:56.0	19:52:48	600	90	2.0	#166 Hyper Vel	4	
0142.bcand376	1800	10:54	8:00:55.6	33:52:00	600	90	2.0	#166 Hyper Vel	4	
0143.COMP	10	11:24	8:00:55.6	33:52:00	600	90	2.0	#166 Hyper Vel	4	
0144.bcand377	1020	11:26	8:02:25.1	30:37:27	600	90	2.0	#166 Hyper Vel	4	
0145.COMP	10	11:43	8:02:25.1	30:37:27	600	90	2.0	#166 Hyper Vel	4	
0146.bcand378	840	11:44	8:02:35.5	21:20:02	600	90	2.0	#166 Hyper Vel	4	
0147.COMP	10	11:59	8:02:35.5	21:20:02	600	90	2.0	#166 Hyper Vel	4	
0148.Feige34	60	12:00	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0149.COMP	10	12:02	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0150-0159.FLAT	24	12:07	10:39:36.8	43:06:10	600	90	2.0	#112 Orion PMS	4	
0160.Feige34	60	12:16	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	combo setup, clouds returning
0161.COMP	12	12:18	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0162.sn2005k1	1260	12:20	12:24:35.6	+39:23:03	300	58	3.0	#2 SN Observat	2	
0163.COMP	12	12:41	12:24:35.6	+39:23:03	300	58	3.0	#2 SN Observat	2	
0164.MRK421	300	12:43	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	clouds building...

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0165.MRK421	300	12:49	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0166.MRK421	300	12:54	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0167.COMP	12	12:59	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	clouds win...
0168-0177.BIAS	0	13:03	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	4	
0178-0187.FLAT	8	13:05	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	4	
0188-0197.BIAS	0	13:08	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	2	
0198-0217.FLAT	16	13:17	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	2	
0218-0227.DARK	900	15:35	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	0:43	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	4	
0011-0020.BIAS	0	1:00	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	4	
0021-0030.FLAT	8	1:07	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	4	
0031-0040.BIAS	0	1:10	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	2	
0041-0060.FLAT	16	1:20	11:04:27.4	+38:12:32	300	90	3.0	#2 SN Observat	2	
0061.BDp284211	60	1:34	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0062.BDp284211	60	1:35	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0063.COMP	5	1:37	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	4	
0064.BDp284211	60	1:37	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0065.BDp284211	60	1:38	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0066.COMP	12	1:40	21:51:11.1	28:51:53	300	75	3.0	#56 Spectropho	2	
0067.sn2005kc	1500	1:43	22:34:07.3	+05:34:06	300	45	3.0	#2 SN Observat	2	
0068.COMP	12	2:09	22:34:07.3	+05:34:06	300	45	3.0	#2 SN Observat	2	
0069.2M22273041-0220202	450	2:12	22:27:30.4	-02:20:20	300	80	3.0	#141 Mapping t	2	
0070.COMP	12	2:20	22:27:30.4	-02:20:20	300	80	3.0	#141 Mapping t	2	
0071.2M22275273-0828435	900	2:21	22:27:52.7	-08:28:43	300	90	3.0	#141 Mapping t	2	
0072.COMP	12	2:40	22:27:52.7	-08:28:43	300	90	3.0	#141 Mapping t	2	
0073.2M22290299+0155492	1500	2:42	22:29:02.9	+01:55:49	300	90	3.0	#141 Mapping t	2	
0074.COMP	12	3:08	22:29:02.9	+01:55:49	300	90	3.0	#141 Mapping t	2	
0075.2M22315111+0231245	1080	3:11	22:31:51.1	+02:31:24	300	90	3.0	#141 Mapping t	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0076.COMP	12	3:29	22:31:51.1	+02:31:24	300	90	3.0	#141 Mapping t	2	
0077.2M22283239+5051441	780	3:33	22:28:32.3	+50:51:44	300	60	3.0	#141 Mapping t	2	row=70
0078.COMP	12	3:47	22:28:32.3	+50:51:44	300	60	3.0	#141 Mapping t	2	
0079.2M22291824+3536498	660	3:50	22:29:18.2	+35:36:49	300	90	3.0	#141 Mapping t	2	
0080.COMP	12	4:02	22:29:18.2	+35:36:49	300	90	3.0	#141 Mapping t	2	
0081.BDp174708	25	4:04	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0082.BDp174708	25	4:04	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0083.BDp174708	25	4:05	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0084.COMP	12	4:06	22:11:31.4	18:05:33	300	63	3.0	#56 Spectropho	2	
0085.sn20051u	1200	4:10	02:36:03.7	-17:15:50	300	9	3.0	#2 SN Observat	2	
0086.COMP	12	4:30	02:36:03.7	-17:15:50	300	9	3.0	#2 SN Observat	2	
0087.sn20051s	1200	4:34	02:54:15.9	42:43:29	300	-37	3.0	#2 SN Observat	2	
0088.COMP	12	4:55	02:54:15.9	42:43:29	300	-37	3.0	#2 SN Observat	2	
0089.0147_07	1260	4:58	01:08:24.2	02:13:03	300	90	3.0	#160 2MACS	2	
0090.COMP	12	5:19	01:08:24.2	02:13:03	300	90	3.0	#160 2MACS	2	wait out clouds
0091.cvso-038336	300	6:04	05:26:56.9	+01:56:27	300	90	3.0	#112 Orion PMS	2	
0092.COMP	12	6:10	05:26:56.9	+01:56:27	300	90	3.0	#112 Orion PMS	2	
0093.cvso-042647	600	6:11	05:26:59.0	+03:40:02	300	90	3.0	#112 Orion PMS	2	
0094.COMP	12	6:23	05:26:59.0	+03:40:02	300	90	3.0	#112 Orion PMS	2	
0095.cvso-040585	600	6:26	05:26:59.5	+02:46:57	300	90	3.0	#112 Orion PMS	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0096.COMP	12	6:36	05:26:59.5	+02:46:57	300	90	3.0	#112 Orion PMS	2	clearing
0097.sn20051z	1500	6:39	02:10:49.7	34:58:58	300	79	3.0	#2 SN Observat	2	
0098.COMP	12	7:04	02:10:49.7	34:58:58	300	79	3.0	#2 SN Observat	2	
0099.sn2005ma	1200	7:08	04:49:53.9	-10:45:23	300	35	3.0	#2 SN Observat	2	
0100.COMP	12	7:29	04:49:53.9	-10:45:23	300	35	3.0	#2 SN Observat	2	
0101.cvso-057947	240	7:33	05:42:03.8	+02:13:43	300	90	3.0	#112 Orion PMS	2	
0102.COMP	12	7:38	05:42:03.8	+02:13:43	300	90	3.0	#112 Orion PMS	2	
0103.cvso-058319	150	7:39	05:42:21.3	+02:09:44	300	90	3.0	#112 Orion PMS	2	
0104.COMP	12	7:42	05:42:21.3	+02:09:44	300	90	3.0	#112 Orion PMS	2	
0105.cvso-061000	300	7:43	05:42:24.1	+02:53:01	300	90	3.0	#112 Orion PMS	2	
0106.COMP	12	7:49	05:42:24.1	+02:53:01	300	90	3.0	#112 Orion PMS	2	
0107.cvso-059263	120	7:50	05:43:00.9	+02:06:39	300	90	3.0	#112 Orion PMS	2	
0108.COMP	12	7:53	05:43:00.9	+02:06:39	300	90	3.0	#112 Orion PMS	2	
0109.cvso-066286	270	7:54	05:44:23.0	+03:52:46	300	90	3.0	#112 Orion PMS	2	
0110.COMP	12	7:59	05:44:23.0	+03:52:46	300	90	3.0	#112 Orion PMS	2	
0111.cvso-066510	300	8:00	05:44:34.1	+04:02:52	300	90	3.0	#112 Orion PMS	2	
0112.COMP	12	8:05	05:44:34.1	+04:02:52	300	90	3.0	#112 Orion PMS	2	
0113.cvso-066712	240	8:07	05:44:44.8	+03:58:17	300	90	3.0	#112 Orion PMS	2	
0114.COMP	12	8:12	05:44:44.8	+03:58:17	300	90	3.0	#112 Orion PMS	2	
0115.cvso-065847	300	8:13	05:46:07.0	+02:44:41	300	90	3.0	#112 Orion PMS	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0116.COMP	12	8:18	05:46:07.0	+02:44:41	300	90	3.0	#112 Orion PMS	2	
0117.cvso-066936	540	8:21	05:46:58.7	+02:36:43	300	90	3.0	#112 Orion PMS	2	
0118.COMP	12	8:30	05:46:58.7	+02:36:43	300	90	3.0	#112 Orion PMS	2	
0119.sn2005mc	1500	8:39	08:27:06.3	21:38:45	300	-30	3.0	#2 SN Observat	2	
0120.COMP	12	9:04	08:27:06.3	21:38:45	300	-30	3.0	#2 SN Observat	2	
0121.bcand379	1260	9:33	8:07:11.7	55:52:30	600	90	2.0	#166 Hyper Vel	4	600L, 2arcsec, tilt=440
0122.COMP	10	9:54	8:07:11.7	55:52:30	600	90	2.0	#166 Hyper Vel	4	
0123.bcand380	660	9:56	8:07:14.8	33:22:50	600	90	2.0	#166 Hyper Vel	4	
0124.COMP	10	10:07	8:07:14.8	33:22:50	600	90	2.0	#166 Hyper Vel	4	
0125.bcand381	1020	10:08	8:07:26.7	30:35:01	600	90	2.0	#166 Hyper Vel	4	
0126.COMP	10	10:25	8:07:26.7	30:35:01	600	90	2.0	#166 Hyper Vel	4	
0127.bcand382	1200	10:26	8:09:16.5	18:52:29	600	90	2.0	#166 Hyper Vel	4	
0128.COMP	10	10:50	8:09:16.5	18:52:29	600	90	2.0	#166 Hyper Vel	4	
0129.bcand383	900	10:51	8:12:35.6	44:24:45	600	90	2.0	#166 Hyper Vel	4	
0130.COMP	10	11:07	8:12:35.6	44:24:45	600	90	2.0	#166 Hyper Vel	4	
0131.bcand384	840	11:08	8:13:42.2	23:20:24	600	90	2.0	#166 Hyper Vel	4	
0132.COMP	10	11:22	8:13:42.2	23:20:24	600	90	2.0	#166 Hyper Vel	4	
0133.bcand385	1680	11:24	8:13:55.6	33:16:54	600	90	2.0	#166 Hyper Vel	4	
0134.COMP	10	11:52	8:13:55.6	33:16:54	600	90	2.0	#166 Hyper Vel	4	
0135.bcand386	1380	11:53	8:13:58.0	32:19:22	600	90	2.0	#166 Hyper Vel	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0136.COMP	10	12:16	8:13:58.0	32:19:22	600	90	2.0	#166 Hyper Vel	4	
0137.bcand390	660	12:17	8:19:02.0	30:02:31	600	90	2.0	#166 Hyper Vel	4	
0138.COMP	10	12:29	8:19:02.0	30:02:31	600	90	2.0	#166 Hyper Vel	4	
0139.Feige34	70	12:30	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0140.COMP	10	12:32	10:39:36.8	43:06:10	600	90	2.0	#56 Spectropho	4	
0141-0150.FLAT	24	12:37	10:39:36.8	43:06:10	600	90	2.0	#166 Hyper Vel	4	
0151.1314_01	900	12:50	11:39:26.4	48:57:14	300	60	3.0	#160 2MACS	2	Emission line, combo setup
0152.COMP	12	13:06	11:39:26.4	48:57:14	300	60	3.0	#160 2MACS	2	
0153.N3227	150	13:07	10:23:30.6	+19:51:54	300	60	3.0	#6 AGN Monitor	2	
0154.N3227	150	13:10	10:23:30.6	+19:51:54	300	60	3.0	#6 AGN Monitor	2	
0155.COMP	12	13:13	10:23:30.6	+19:51:54	300	60	3.0	#6 AGN Monitor	2	
0156.N4051	150	13:15	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0157.N4051	150	13:17	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0158.COMP	12	13:20	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0159.Feige34	50	13:21	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0160.COMP	12	13:23	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0161-0170.BIAS	0	13:26	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0171-0180.FLAT	8	13:28	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0181-0190.BIAS	0	13:31	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0191-0210.FLAT	16	13:40	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0211-0220.DARK	900	15:59	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.BIAS	0	0:25	23:27:28.5	+31:27:46	300	90	3.0	#56 Spectropho	4	
0011-0020.FLAT	8	0:28	23:30:52.6	+31:27:46	300	90	3.0	#56 Spectropho	4	
0021-0024.BIAS	0	0:29	23:31:45.2	+31:27:46	300	90	3.0	#56 Spectropho	2	
0025-0030.BIAS	0	0:31	23:33:03.0	+31:27:45	300	90	3.0	#56 Spectropho	2	
0031-0048.FLAT	16	0:40	23:42:14.0	+31:27:45	300	90	3.0	#56 Spectropho	2	
0049-0050.FLAT	16	0:41	23:43:18.4	+31:27:44	300	90	3.0	#56 Spectropho	2	
0051.sky	3	0:44	23:45:00	32:00:00	300	90	3.0	#57 Velocity S	4	thin clouds all right long, and some thick
0052-0055.sky	3	0:45	23:45:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	0:46	23:45:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.BDp174708	50	1:19	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0058.BDp174708	50	1:20	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0059.BDp174708	50	1:21	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0060.COMP	10	1:24	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0061.BDp284211	150	1:27	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropho	2	
0062.BDp284211	150	1:30	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropho	2	
0063.COMP	10	1:33	21:51:11.1	28:51:53	300	77	3.0	#56 Spectropho	2	
0064.N7331	180	1:36	22:34:46.9	+34:09:43	300	77	3.0	#57 Velocity S	4	
0065.COMP	5	1:40	22:34:46.9	+34:09:43	300	77	3.0	#57 Velocity S	4	
0066.ZAnd	5	1:41	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0067.ZAnd	30	1:42	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0068.ZAnd	1	1:43	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0069.ZAnd	45	1:43	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0070.COMP	5	1:45	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0071.Akn564	180	1:46	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0072.Akn564	180	1:49	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0073.COMP	10	1:52	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0074.N7469	150	1:53	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	
0075.N7469	150	1:56	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	
0076.COMP	10	1:59	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	
0077.2M22495926+5308400	600	2:01	22:49:59.2	+53:08:40	300	90	3.0	#141 Mapping t	4	
0078.COMP	5	2:11	22:49:59.2	+53:08:40	300	90	3.0	#141 Mapping t	4	
0079.2M22502088+4100210	540	2:13	22:50:20.8	+41:00:21	300	90	3.0	#141 Mapping t	4	
0080.COMP	5	2:22	22:50:20.8	+41:00:21	300	90	3.0	#141 Mapping t	4	
0081.2M23203733+4353582	660	3:05	23:20:37.3	+43:53:58	300	90	3.0	#141 Mapping t	4	delay, clouds
0082.COMP	5	3:16	23:20:37.3	+43:53:58	300	90	3.0	#141 Mapping t	4	
0083.2M23203887+4251552	300	3:17	23:20:38.8	+42:51:55	300	90	3.0	#141 Mapping t	4	
0084.COMP	5	3:22	23:20:38.8	+42:51:55	300	90	3.0	#141 Mapping t	4	
0085.2M23205763+4246189	420	3:23	23:20:57.6	+42:46:18	300	90	3.0	#141 Mapping t	4	
0086.COMP	5	3:30	23:20:57.6	+42:46:18	300	90	3.0	#141 Mapping t	4	
0087.2M23231274+5217336	480	3:31	23:23:12.7	+52:17:33	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0088.COMP	5	3:40	23:23:12.7	+52:17:33	300	90	3.0	#141 Mapping t	4	
0089.2M23363938+4717251	330	3:41	23:36:39.3	+47:17:25	300	90	3.0	#141 Mapping t	4	
0090.COMP	5	3:47	23:36:39.3	+47:17:25	300	90	3.0	#141 Mapping t	4	
0091.2M23411036+4748205	420	3:47	23:41:10.3	+47:48:20	300	90	3.0	#141 Mapping t	4	
0092.COMP	5	3:56	23:41:10.3	+47:48:20	300	90	3.0	#141 Mapping t	4	
0093.2M23382499+5347115	540	3:57	23:38:24.9	+53:47:11	300	90	3.0	#141 Mapping t	4	
0094.COMP	5	4:06	23:38:24.9	+53:47:11	300	90	3.0	#141 Mapping t	4	
0095.MRK335	150	4:08	00:06:19.6	+20:12:11	300	65	3.0	#6 AGN Monitor	2	
0096.MRK335	150	4:11	00:06:19.6	+20:12:11	300	65	3.0	#6 AGN Monitor	2	
0097.COMP	10	4:14	00:06:19.6	+20:12:11	300	65	3.0	#6 AGN Monitor	2	
0098.0147_08	900	4:15	01:09:32.6	02:09:05	300	65	3.0	#160 2MACS	2	
0099.COMP	10	4:30	01:09:32.6	02:09:05	300	65	3.0	#160 2MACS	2	
0100.0147_09	900	4:31	01:09:36.8	02:06:10	300	65	3.0	#160 2MACS	2	
0101.COMP	10	4:47	01:09:36.8	02:06:10	300	65	3.0	#160 2MACS	2	
0102.L95-S180	180	4:49	03:53:27.9	+00:06:01	300	0	3.0	#99 Other	2	
0103.COMP	10	4:52	03:53:27.9	+00:06:01	300	0	3.0	#99 Other	2	
0104.0407_03	720	4:55	03:00:13.7	35:25:48	300	90	3.0	#160 2MACS	2	
0105.COMP	10	5:08	03:00:13.7	35:25:48	300	90	3.0	#160 2MACS	2	
0106.0407_04	900	5:09	03:01:34.8	35:53:29	300	90	3.0	#160 2MACS	2	
0107.COMP	10	5:24	03:01:34.8	35:53:29	300	90	3.0	#160 2MACS	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0108.sn2005mg	900	5:26	00:16:44.2	+07:04:19	300	58	3.0	#2 SN Observat	2	late request, pec
0109.COMP	10	5:41	00:16:44.2	+07:04:19	300	58	3.0	#2 SN Observat	2	
0110.0407_05	1200	5:43	03:01:42.6	35:55:11	300	58	3.0	#160 2MACS	2	
0111.COMP	10	6:03	03:01:42.6	35:55:11	300	58	3.0	#160 2MACS	2	
0112.0407_06	900	6:04	03:01:45.1	35:46:46	300	0	3.0	#160 2MACS	2	
0113.COMP	10	6:20	03:01:45.1	35:46:46	300	0	3.0	#160 2MACS	2	
0114.0407_10	1200	6:21	03:03:37.2	35:36:46	300	0	3.0	#160 2MACS	2	
0115.COMP	10	6:41	03:03:37.2	35:36:46	300	0	3.0	#160 2MACS	2	
0116.0407_11	1200	6:43	03:04:17.7	35:47:32	300	0	3.0	#160 2MACS	2	ok good em
0117.COMP	10	7:03	03:04:17.7	35:47:32	300	0	3.0	#160 2MACS	2	
0118.sn2005md	1800	7:07	06:47:19.1	33:34:24	300	90	3.0	#2 SN Observat	2	v faint
0119.COMP	10	7:38	06:47:19.1	33:34:24	300	90	3.0	#2 SN Observat	2	
0120.2M06064233+6115231	600	7:40	06:06:42.3	+61:15:23	300	90	3.0	#141 Mapping t	2	ok lines
0121.COMP	10	7:50	06:06:42.3	+61:15:23	300	90	3.0	#141 Mapping t	2	
0122.2M06142020+6618147	600	7:51	06:14:20.1	+66:18:14	300	90	3.0	#141 Mapping t	2	
0123.COMP	10	8:02	06:14:20.1	+66:18:14	300	90	3.0	#141 Mapping t	2	
0124.2M06200273+6545046	300	8:02	06:20:2.7	+65:45:4	300	90	3.0	#141 Mapping t	4	
0125.COMP	5	8:08	06:20:2.7	+65:45:4	300	90	3.0	#141 Mapping t	4	
0126.2M06482204+6447143	300	8:08	06:48:22.0	+64:47:14	300	90	3.0	#141 Mapping t	4	
0127.COMP	5	8:14	06:48:22.0	+64:47:14	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0128. 2M06404775+5330158	300	8:15	06:40:47.7	+53:30:15	300	80	3.0	#141 Mapping t	4	
0129. COMP	5	8:20	06:40:47.7	+53:30:15	300	80	3.0	#141 Mapping t	4	
0130. 2M06482258+5255275	300	8:20	06:48:22.5	+52:55:27	300	80	3.0	#141 Mapping t	4	
0131. COMP	5	8:26	06:48:22.5	+52:55:27	300	80	3.0	#141 Mapping t	4	
0132. 2M06565680+4744463	300	8:27	06:56:56.7	+47:44:46	300	90	3.0	#141 Mapping t	4	
0133. COMP	5	8:32	06:56:56.7	+47:44:46	300	90	3.0	#141 Mapping t	4	
0134. 2M07061163+4334378	300	8:32	07:06:11.6	+43:34:37	300	90	3.0	#141 Mapping t	4	
0135. COMP	5	8:38	07:06:11.6	+43:34:37	300	90	3.0	#141 Mapping t	4	
0136. 2M06595604+3400099	240	8:39	06:59:56.0	+34:00:10	300	70	3.0	#141 Mapping t	4	
0137. COMP	5	8:44	06:59:56.0	+34:00:10	300	70	3.0	#141 Mapping t	4	
0138. 2M07001150+0921579	300	8:47	07:00:11.5	09:21:58	300	90	3.0	#141 Mapping t	4	
0139. COMP	5	8:52	07:00:11.5	09:21:58	300	90	3.0	#141 Mapping t	4	
0140. 2M07004958+0542246	360	8:53	07:00:49.5	05:42:24	300	90	3.0	#141 Mapping t	4	
0141. COMP	5	8:59	07:00:49.5	05:42:24	300	90	3.0	#141 Mapping t	4	
0142. 2M07050755+0340356	720	9:00	07:05:7.5	03:40:35	300	90	3.0	#141 Mapping t	4	
0143. COMP	5	9:13	07:05:7.5	03:40:35	300	90	3.0	#141 Mapping t	4	
0144. 2M07014867+1358201	300	9:14	07:01:48.6	13:58:19	300	90	3.0	#141 Mapping t	4	
0145. COMP	5	9:20	07:01:48.6	13:58:19	300	90	3.0	#141 Mapping t	4	
0146. 2M07054005+1021493	300	9:20	07:05:40.0	10:21:49	300	90	3.0	#141 Mapping t	4	
0147. COMP	5	9:26	07:05:40.0	10:21:49	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0148.sn2005mf	1200	9:29	09:08:42.3	+44:48:51	300	24	3.0	#2 SN Observat	2	
0149.COMP	10	9:50	09:08:42.3	+44:48:51	300	24	3.0	#2 SN Observat	2	
0150.2M07155031+0213419	300	9:53	07:15:50.3	02:13:41	300	90	3.0	#141 Mapping t	4	
0151.COMP	5	9:58	07:15:50.3	02:13:41	300	90	3.0	#141 Mapping t	4	
0152.2M07162493+0959007	300	10:01	07:16:24.9	09:59:0	300	90	3.0	#141 Mapping t	4	
0153.COMP	5	10:06	07:16:24.9	09:59:0	300	90	3.0	#141 Mapping t	4	
0154.2M07173942+0420594	420	10:07	07:17:39.4	04:20:59	300	90	3.0	#141 Mapping t	4	good em lines, pix 2240
0155.COMP	5	10:14	07:17:39.4	04:20:59	300	90	3.0	#141 Mapping t	4	
0156.2M07174050+0305174	300	10:15	07:17:40.4	03:05:17	300	90	3.0	#141 Mapping t	4	
0157.COMP	5	10:20	07:17:40.4	03:05:17	300	90	3.0	#141 Mapping t	4	
0158.2M07184506+0412345	300	10:21	07:18:45.0	04:12:34	300	90	3.0	#141 Mapping t	4	
0159.COMP	5	10:26	07:18:45.0	04:12:34	300	90	3.0	#141 Mapping t	4	
0160.2M07194473+0516572	300	10:27	07:19:44.7	05:16:57	300	90	3.0	#141 Mapping t	4	
0161.COMP	5	10:32	07:19:44.7	05:16:57	300	90	3.0	#141 Mapping t	4	
0162.2M07203706+1008545	300	10:33	07:20:37.0	10:08:54	300	90	3.0	#141 Mapping t	4	
0163.COMP	5	10:38	07:20:37.0	10:08:54	300	90	3.0	#141 Mapping t	4	
0164.2M07212245+0458322	300	10:39	07:21:22.4	+04:58:32	300	90	3.0	#141 Mapping t	4	
0165.COMP	5	10:44	07:21:22.4	+04:58:32	300	90	3.0	#141 Mapping t	4	
0166.2M07215123+0232196	300	10:45	07:21:51.2	02:32:19	300	90	3.0	#141 Mapping t	4	
0167.COMP	5	10:50	07:21:51.2	02:32:19	300	90	3.0	#141 Mapping t	4	



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0168. 2M07160231+1932242	450	10:51	07:16:2.3	19:32:24	300	90	3.0	#141 Mapping t	4	
0169. COMP	5	10:59	07:16:2.3	19:32:24	300	90	3.0	#141 Mapping t	4	
0170. 2M07193868+2156340	300	11:00	07:19:38.6	21:56:34	300	90	3.0	#141 Mapping t	4	
0171. COMP	5	11:05	07:19:38.6	21:56:34	300	90	3.0	#141 Mapping t	4	
0172. 2M07201034+2319546	480	11:06	07:20:10.3	23:19:54	300	90	3.0	#141 Mapping t	4	
0173. COMP	5	11:14	07:20:10.3	23:19:54	300	90	3.0	#141 Mapping t	4	
0174. 2M07220681+2109507	240	11:15	07:22:6.8	21:09:50	300	90	3.0	#141 Mapping t	4	
0175. COMP	5	11:19	07:22:6.8	21:09:50	300	90	3.0	#141 Mapping t	4	
0176. 2M10171994-0219458	240	11:21	10:17:19.9	-02:19:45	300	90	3.0	#141 Mapping t	4	
0177. COMP	5	11:25	10:17:19.9	-02:19:45	300	90	3.0	#141 Mapping t	4	
0178. 2M10050164-0632509	330	11:26	10:05:1.6	-06:32:51	300	90	3.0	#141 Mapping t	4	
0179. COMP	5	11:32	10:05:1.6	-06:32:51	300	90	3.0	#141 Mapping t	4	
0180. 2M10201033-0854295	300	11:32	10:20:10.3	-08:54:29	300	90	3.0	#141 Mapping t	4	
0181. COMP	5	11:38	10:20:10.3	-08:54:29	300	90	3.0	#141 Mapping t	4	
0182. 2M10235033-0853389	300	11:38	10:23:50.3	-08:53:38	300	90	3.0	#141 Mapping t	4	
0183. COMP	5	11:43	10:23:50.3	-08:53:38	300	90	3.0	#141 Mapping t	4	
0184. 2M10313270-0917504	600	11:44	10:31:32.6	-09:17:50	300	90	3.0	#141 Mapping t	4	
0185. COMP	5	11:54	10:31:32.6	-09:17:50	300	90	3.0	#141 Mapping t	4	
0186. 2M10342069-0738463	300	11:55	10:34:20.6	-07:38:46	300	90	3.0	#141 Mapping t	4	
0187. COMP	5	12:00	10:34:20.6	-07:38:46	300	90	3.0	#141 Mapping t	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0188.2M10354354-0640177	300	12:01	10:35:43.5	-06:40:17	300	90	3.0	#141 Mapping t	4	
0189.COMP	5	12:06	10:35:43.5	-06:40:17	300	90	3.0	#141 Mapping t	4	
0190.2M10355358-0655360	300	12:07	10:35:53.5	-06:55:36	300	90	3.0	#141 Mapping t	4	
0191.COMP	5	12:12	10:35:53.5	-06:55:36	300	90	3.0	#141 Mapping t	4	
0192.2M10423971-0726439	480	12:12	10:42:39.7	-07:26:43	300	90	3.0	#141 Mapping t	4	
0193.COMP	5	12:21	10:42:39.7	-07:26:43	300	90	3.0	#141 Mapping t	4	
0194.1100.11	540	12:22	10:49:52.2	22:39:16	300	70	3.0	#160 2MACS	4	finishes off the list
0195.COMP	5	12:31	10:49:52.2	22:39:16	300	70	3.0	#160 2MACS	4	
0196.2M10575051-0215059	300	12:33	10:57:50.5	-02:15:5	300	90	3.0	#141 Mapping t	4	
0197.COMP	5	12:38	10:57:50.5	-02:15:5	300	90	3.0	#141 Mapping t	4	
0198.2M10582171-0826094	300	12:39	10:58:21.7	-08:26:9	300	90	3.0	#141 Mapping t	4	
0199.COMP	5	12:44	10:58:21.7	-08:26:9	300	90	3.0	#141 Mapping t	4	
0200.2M10592193-0659420	330	12:45	10:59:21.9	-06:59:42	300	90	3.0	#141 Mapping t	4	
0201.COMP	5	12:50	10:59:21.9	-06:59:42	300	90	3.0	#141 Mapping t	4	
0202.2M10592576-0641070	270	12:51	10:59:25.7	-06:41:7	300	90	3.0	#141 Mapping t	4	
0203.COMP	5	12:56	10:59:25.7	-06:41:7	300	90	3.0	#141 Mapping t	4	
0204.2M10563888+0004301	240	12:56	10:56:38.8	+00:04:30	300	90	3.0	#141 Mapping t	4	
0205.COMP	5	13:01	10:56:38.8	+00:04:30	300	90	3.0	#141 Mapping t	4	
0206.2M10581302+0136248	300	13:01	10:58:13.0	+01:36:24	300	90	3.0	#141 Mapping t	4	
0207.COMP	5	13:07	10:58:13.0	+01:36:24	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0208.2M11142559-0715429	240	13:07	11:14:25.6	-07:15:42	300	90	3.0	#141 Mapping t	4	
0209.COMP	5	13:11	11:14:25.6	-07:15:42	300	90	3.0	#141 Mapping t	4	
0210.2M11180808-0425480	240	13:12	11:18:8.0	-04:25:48	300	90	3.0	#141 Mapping t	4	
0211.COMP	5	13:16	11:18:8.0	-04:25:48	300	90	3.0	#141 Mapping t	4	
0212.N4151	30	13:18	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0213.N4151	30	13:19	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0214.N4151	60	13:19	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0215.COMP	10	13:21	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0216.Feige66	60	13:22	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0217.Feige66	60	13:23	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0218.COMP	10	13:24	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0219-0228.BIAS	0	13:27	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	4	
0229-0238.FLAT	8	13:30	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	4	
0239-0248.BIAS	0	13:33	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0249-0258.FLAT	16	13:38	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0259-0263.DARK	900	14:46	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	4	
0264-0268.DARK	900	16:03	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0003.BIAS	0	23:42	22:48:37.6	+31:27:53	300	90	3.0	#56 Spectropho	4	
0004-0010.BIAS	0	23:43	22:49:29.5	+31:27:52	300	90	3.0	#56 Spectropho	4	
0011-0020.FLAT	8	23:46	22:52:53.4	+31:27:52	300	90	3.0	#56 Spectropho	4	
0021-0022.BIAS	0	23:47	22:53:19.9	+31:27:52	300	90	3.0	#56 Spectropho	2	
0023-0030.BIAS	0	23:49	22:55:03.7	+31:27:51	300	90	3.0	#56 Spectropho	2	
0031-0036.FLAT	16	23:52	22:58:14.4	+31:27:51	300	90	3.0	#56 Spectropho	2	
0037-0047.FLAT	16	23:57	23:03:48.2	+31:27:50	300	90	3.0	#56 Spectropho	2	
0048-0050.FLAT	16	23:59	23:05:19.1	+31:27:49	300	90	3.0	#56 Spectropho	2	
0051.sky	3	0:44	23:50:00	32:00:00	300	90	3.0	#57 Velocity S	4	crystal clear photometric skies
0052-0055.sky	3	0:44	23:50:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	0:45	23:50:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.BDp174708	45	1:23	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0058.BDp174708	45	1:23	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0059.BDp174708	45	1:24	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0060.BDp174708	45	1:25	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0061.COMP	10	1:27	22:11:31.4	18:05:33	300	60	3.0	#56 Spectropho	2	
0062.BDp284211	90	1:28	21:51:11.1	28:51:53	300	76	3.0	#56 Spectropho	2	
0063.BDp284211	90	1:30	21:51:11.1	28:51:53	300	76	3.0	#56 Spectropho	2	
0064.BDp284211	90	1:32	21:51:11.1	28:51:53	300	76	3.0	#56 Spectropho	2	
0065.COMP	10	1:34	21:51:11.1	28:51:53	300	76	3.0	#56 Spectropho	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0066.Feige110	150	1:36	23:19:58.3	-05:09:55	300	27	3.0	#56 Spectropho	2	
0067.Feige110	150	1:38	23:19:58.3	-05:09:55	300	27	3.0	#56 Spectropho	2	
0068.Feige110	150	1:41	23:19:58.3	-05:09:55	300	27	3.0	#56 Spectropho	2	
0069.CDMP	10	1:44	23:19:58.3	-05:09:55	300	27	3.0	#56 Spectropho	2	
0070.PG2130p099	600	1:46	21:32:27.9	+10:08:19	300	58	3.0	#147 AGN Solut	2	
0071.PG2130p099	600	1:57	21:32:27.9	+10:08:19	300	58	3.0	#147 AGN Solut	2	
0072.CDMP	10	2:07	21:32:27.9	+10:08:19	300	58	3.0	#147 AGN Solut	2	
0073.NGC7469	210	2:09	23:03:15.6	+08:52:26	300	51	3.0	#147 AGN Solut	2	
0074.NGC7469	210	2:13	23:03:15.6	+08:52:26	300	51	3.0	#147 AGN Solut	2	
0075.NGC7469	210	2:16	23:03:15.6	+08:52:26	300	51	3.0	#147 AGN Solut	2	
0076.CDMP	10	2:20	23:03:15.6	+08:52:26	300	51	3.0	#147 AGN Solut	2	
0077.Mrk335	300	2:22	00:06:19.5	+20:12:11	300	55	3.0	#147 AGN Solut	2	
0078.Mrk335	300	2:28	00:06:19.5	+20:12:11	300	55	3.0	#147 AGN Solut	2	
0079.Mrk335	300	2:33	00:06:19.5	+20:12:11	300	55	3.0	#147 AGN Solut	2	
0080.CDMP	10	2:38	00:06:19.5	+20:12:11	300	55	3.0	#147 AGN Solut	2	
0081.sn2005mg	1200	2:40	00:16:44.2	+07:04:19	300	40	3.0	#2 SN Observat	2	
0082.CDMP	10	3:01	00:16:44.2	+07:04:19	300	40	3.0	#2 SN Observat	2	
0083.Mrk590	300	3:03	02:14:33.6	-00:46:00	300	0	3.0	#147 AGN Solut	2	
0084.Mrk590	720	3:10	02:14:33.6	-00:46:00	300	5	3.0	#147 AGN Solut	2	
0085.Mrk590	720	3:22	02:14:33.6	-00:46:00	300	5	3.0	#147 AGN Solut	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0086.COMP	10	3:34	02:14:33.6	-00:46:00	300	5	3.0	#147 AGN Solut	2	
0087.Feige24	120	3:38	02:35:07.3	03:43:55	300	5	3.0	#56 Spectropho	2	
0088.Feige24	120	3:40	02:35:07.3	03:43:55	300	5	3.0	#56 Spectropho	2	
0089.Feige24	120	3:43	02:35:07.3	03:43:55	300	5	3.0	#56 Spectropho	2	
0090.COMP	10	3:45	02:35:07.3	03:43:55	300	5	3.0	#56 Spectropho	2	
0091.Feige25	120	3:46	02:38:37.7	05:28:11	300	8	3.0	#56 Spectropho	2	
0092.Feige25	120	3:48	02:38:37.7	05:28:11	300	8	3.0	#56 Spectropho	2	
0093.Feige25	120	3:50	02:38:37.7	05:28:11	300	8	3.0	#56 Spectropho	2	
0094.COMP	10	3:53	02:38:37.7	05:28:11	300	8	3.0	#56 Spectropho	2	
0095.HD19445	10	3:57	03:08:26.2	26:20:28	300	0	3.0	#56 Spectropho	2	
0096.HD19445	10	3:56	03:08:26.2	26:20:28	300	0	3.0	#56 Spectropho	2	
0097.HD19445	10	3:58	03:08:26.2	26:20:28	300	0	3.0	#56 Spectropho	2	
0098.HD19445	10	3:59	03:08:26.2	26:20:28	300	0	3.0	#56 Spectropho	2	
0099.COMP	10	3:59	03:08:26.2	26:20:28	300	0	3.0	#56 Spectropho	2	
0100.sn20051x	1500	4:03	02:22:39.0	28:15:07	300	69	3.0	#2 SN Observat	2	band of clouds moving into far western Arizona
0101.COMP	10	4:29	02:22:39.0	28:15:07	300	69	3.0	#2 SN Observat	2	
0102.2M03392344+3244237	1200	4:32	03:39:23.4	+32:44:24	300	90	3.0	#141 Mapping t	2	good H-alpha emission at pixel 2304
0103.COMP	10	4:53	03:39:23.4	+32:44:24	300	90	3.0	#141 Mapping t	2	
0104.2M03461106+3308492	900	4:56	03:46:11.0	+33:08:49	300	70	3.0	#141 Mapping t	2	ok
0105.COMP	10	5:11	03:46:11.0	+33:08:49	300	70	3.0	#141 Mapping t	2	



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0106.2M03482527+3838176	900	5:13	03:48:25.2	+38:38:17	300	70	3.0	#141 Mapping t	2	ok
0107.COMP	10	5:28	03:48:25.2	+38:38:17	300	70	3.0	#141 Mapping t	2	
0108.2M03575068+3823079	960	5:29	03:57:50.6	+38:23:7	300	70	3.0	#141 Mapping t	2	ok
0109.COMP	10	5:45	03:57:50.6	+38:23:7	300	70	3.0	#141 Mapping t	2	
0110.2M04073179+3810455	1200	5:47	04:07:31.8	+38:10:45	300	55	3.0	#141 Mapping t	2	ok
0111.COMP	10	6:07	04:07:31.8	+38:10:45	300	55	3.0	#141 Mapping t	2	
0112.Akn120	480	6:11	05:16:11.4	-00:08:59	300	7	3.0	#147 AGN Solut	2	
0113.Akn120	480	6:19	05:16:11.4	-00:08:59	300	7	3.0	#147 AGN Solut	2	
0114.Akn120	480	6:27	05:16:11.4	-00:08:59	300	7	3.0	#147 AGN Solut	2	
0115.COMP	10	6:36	05:16:11.4	-00:08:59	300	7	3.0	#147 AGN Solut	2	
0116.2M03473049+6855370	1200	6:39	03:47:30.4	+68:55:36	300	90	3.0	#141 Mapping t	2	ok
0117.COMP	10	7:00	03:47:30.4	+68:55:36	300	90	3.0	#141 Mapping t	2	
0118.2M03474251+7040063	1200	7:01	03:47:42.5	+70:40:6	300	90	3.0	#141 Mapping t	2	
0119.COMP	10	7:21	03:47:42.5	+70:40:6	300	90	3.0	#141 Mapping t	2	
0120.HD52071	5	7:23	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	2	
0121.HD52071	5	7:23	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	2	
0122.HD52071	5	7:24	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	2	
0123.COMP	10	7:24	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	2	
0124.Hiltner600	60	7:27	06:45:13.4	02:08:14	300	-4	3.0	#56 Spectropho	2	
0125.Hiltner600	60	7:28	06:45:13.4	02:08:14	300	-4	3.0	#56 Spectropho	2	



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0126.Hiltner600	60	7:29	06:45:13.4	02:08:14	300	-4	3.0	#56 Spectropho	2	
0127.Hiltner600	60	7:31	06:45:13.4	02:08:14	300	-4	3.0	#56 Spectropho	2	
0128.COMP	10	7:33	06:45:13.4	02:08:14	300	-4	3.0	#56 Spectropho	2	
0129.Mrk79	720	7:36	07:42:32.8	+49:48:35	300	28	3.0	#147 AGN Solut	2	
0130.Mrk79	720	7:48	07:42:32.8	+49:48:35	300	28	3.0	#147 AGN Solut	2	
0131.Mrk79	720	8:00	07:42:32.8	+49:48:35	300	28	3.0	#147 AGN Solut	2	
0132.COMP	10	8:12	07:42:32.8	+49:48:35	300	28	3.0	#147 AGN Solut	2	
0133.PG0844+349	480	8:15	08:47:42.4	+34:45:04	300	80	3.0	#147 AGN Solut	2	
0134.PG0844+349	480	8:23	08:47:42.4	+34:45:04	300	80	3.0	#147 AGN Solut	2	
0135.PG0844+349	480	8:32	08:47:42.4	+34:45:04	300	80	3.0	#147 AGN Solut	2	
0136.PG0844+349	480	8:40	08:47:42.4	+34:45:04	300	80	3.0	#147 AGN Solut	2	
0137.COMP	10	8:48	08:47:42.4	+34:45:04	300	80	3.0	#147 AGN Solut	2	
0138.sn2005mf	1800	8:57	09:08:42.3	+44:48:51	300	37	3.0	#2 SN Observat	2	the night has been photometric up to this point
0139.COMP	10	9:28	09:08:42.3	+44:48:51	300	37	3.0	#2 SN Observat	2	
0140.2M065018+125055	420	9:31	06:50:18.1	11:25:5	300	90	3.0	#141 Mapping t	2	
0141.COMP	10	9:39	06:50:18.1	11:25:5	300	90	3.0	#141 Mapping t	2	
0142.2M065345+1122363	600	9:39	06:53:45.4	11:22:36	300	90	3.0	#141 Mapping t	4	the band of clouds is now moving through
0143.COMP	5	9:50	06:53:45.4	11:22:36	300	90	3.0	#141 Mapping t	4	
0144.2M065339+1636432	600	9:51	06:53:39.8	16:36:43	300	90	3.0	#141 Mapping t	4	
0145.COMP	5	10:01	06:53:39.8	16:36:43	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0146. 2M06542223+1459340	600	10:02	06:54:22.2	14:59:34	300	90	3.0	#141 Mapping t	4	
0147. COMP	5	10:12	06:54:22.2	14:59:34	300	90	3.0	#141 Mapping t	4	
0148. 2M06563659+0843286	540	10:13	06:56:36.6	08:43:28	300	90	3.0	#141 Mapping t	4	wind really picking up
0149. COMP	5	10:22	06:56:36.6	08:43:28	300	90	3.0	#141 Mapping t	4	
0150. 2M06585254+0906089	300	10:23	06:58:52.5	09:06:9	300	90	3.0	#141 Mapping t	4	
0151. COMP	5	10:28	06:58:52.5	09:06:9	300	90	3.0	#141 Mapping t	4	
0152. 2M06580082+1235367	300	10:29	06:58:0.8	12:35:36	300	90	3.0	#141 Mapping t	4	
0153. COMP	5	10:34	06:58:0.8	12:35:36	300	90	3.0	#141 Mapping t	4	
0154. 2M06570952+1217254	720	10:36	06:57:9.5	12:17:25	300	90	3.0	#141 Mapping t	4	sup star just to the north of here
0155. COMP	5	10:48	06:57:9.5	12:17:25	300	90	3.0	#141 Mapping t	4	
0156. 2M06570790+1247124	360	10:49	06:57:7.9	12:47:12	300	90	3.0	#141 Mapping t	4	
0157. COMP	5	10:55	06:57:7.9	12:47:12	300	90	3.0	#141 Mapping t	4	
0158. 2M11033799+2830565	390	10:56	11:03:37.9	28:30:56	300	90	3.0	#141 Mapping t	4	
0159. COMP	5	11:03	11:03:37.9	28:30:56	300	90	3.0	#141 Mapping t	4	
0160. 2M11033952+3151291	300	11:05	11:03:39.5	+31:51:29	300	90	3.0	#141 Mapping t	4	big trouble with FAST tv cutting out
0161. COMP	5	11:11	11:03:39.5	+31:51:29	300	90	3.0	#141 Mapping t	4	
0162. 2M11050157+2448464	330	11:11	11:05:1.5	+24:48:46	300	90	3.0	#141 Mapping t	4	
0163. COMP	5	11:17	11:05:1.5	+24:48:46	300	90	3.0	#141 Mapping t	4	
0164. 2M11231067+2408140	330	11:24	11:23:10.6	24:08:13	300	90	3.0	#141 Mapping t	4	300 cts, Na, Mg, Ca, weak em, ok
0165. COMP	5	11:30	11:23:10.6	24:08:13	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0166.2M11193566+1204361	270	11:31	11:19:35.6	+12:04:35	300	90	3.0	#141 Mapping t	4	
0167.COMP	5	11:35	11:19:35.6	+12:04:35	300	90	3.0	#141 Mapping t	4	
0168.2M11194398+1357503	330	11:36	11:19:43.9	+13:57:50	300	90	3.0	#141 Mapping t	2	
0169.COMP	10	11:42	11:19:43.9	+13:57:50	300	90	3.0	#141 Mapping t	2	
0170.2M11302132-0657408	240	11:43	11:30:21.3	-06:57:40	300	90	3.0	#141 Mapping t	4	
0171.COMP	5	11:47	11:30:21.3	-06:57:40	300	90	3.0	#141 Mapping t	4	
0172.2M11303200-0802318	240	11:48	11:30:31.9	-08:02:31	300	90	3.0	#141 Mapping t	4	
0173.COMP	5	11:52	11:30:31.9	-08:02:31	300	90	3.0	#141 Mapping t	4	
0174.2M11312568-0938451	210	11:53	11:31:25.6	-09:38:45	300	90	3.0	#141 Mapping t	4	
0175.COMP	5	11:57	11:31:25.6	-09:38:45	300	90	3.0	#141 Mapping t	4	
0176.2M11305262-0852345	300	11:57	11:30:52.6	-08:52:34	300	90	3.0	#141 Mapping t	4	another band of clouds moving in
0177.COMP	5	12:03	11:30:52.6	-08:52:34	300	90	3.0	#141 Mapping t	4	
0178.2M11444194-0712566	420	12:03	11:44:41.9	-07:12:56	300	90	3.0	#141 Mapping t	4	
0179.COMP	5	12:10	11:44:41.9	-07:12:56	300	90	3.0	#141 Mapping t	4	
0180.2M11424241-0606538	480	12:15	11:42:42.4	-06:06:53	300	90	3.0	#141 Mapping t	4	
0181.COMP	5	12:24	11:42:42.4	-06:06:53	300	90	3.0	#141 Mapping t	4	
0182.MRK421	360	12:26	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0183.MRK421	360	12:32	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0184.COMP	10	12:38	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0185.N3227	240	12:39	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0186.N3227	240	12:44	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0187.COMP	10	12:48	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0188.N4051	240	12:49	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0189.N4051	360	12:54	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0190.COMP	10	13:00	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0191.N4486B	540	13:02	12:30:32	+12:29:25	300	90	3.0	#57 Velocity S	4	
0192.COMP	5	13:11	12:30:32	+12:29:25	300	90	3.0	#57 Velocity S	4	
0193-0202.BIAS	0	13:14	12:30:32	+12:29:25	300	90	3.0	#6 AGN Monitor	4	
0203-0212.FLAT	8	13:17	12:30:32	+12:29:25	300	90	3.0	#6 AGN Monitor	4	
0213-0222.BIAS	0	13:20	12:30:32	+12:29:25	300	90	3.0	#6 AGN Monitor	2	
0223-0232.FLAT	16	13:25	12:30:32	+12:29:25	300	90	3.0	#6 AGN Monitor	2	
0233-0237.DARK	900	14:33	12:30:32	+12:29:25	300	90	3.0	#6 AGN Monitor	2	
0238-0242.DARK	900	15:49	12:30:32	+12:29:25	300	90	3.0	#6 AGN Monitor	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.BIAS	0	23:09	22:18:41.6	+31:28:00	300	90	3.0	#6 AGN Monitor	4	
0011-0014.FLAT	8	23:10	22:20:04.2	+31:28:00	300	90	3.0	#6 AGN Monitor	4	
0015-0020.FLAT	8	23:12	22:22:05.6	+31:27:59	300	90	3.0	#6 AGN Monitor	4	
0021-0028.BIAS	0	23:14	22:23:53.8	+31:27:59	300	90	3.0	#6 AGN Monitor	2	
0029-0030.BIAS	0	23:14	22:24:16.3	+31:27:58	300	90	3.0	#6 AGN Monitor	2	
0031-0036.FLAT	16	23:17	22:27:26.9	+31:27:58	300	90	3.0	#6 AGN Monitor	2	
0037-0050.FLAT	16	23:24	22:30:02.2	+31:27:57	300	90	3.0	#6 AGN Monitor	2	
0051-0053.DARK	900	23:56	22:30:02.2	+31:27:57	300	90	3.0	#6 AGN Monitor	2	
0054.sky	3	0:45	23:55:00	32:00:00	300	90	3.0	#57 Velocity S	4	lots of clouds
0055-0058.sky	3	0:46	23:55:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0059.COMP	5	0:46	23:55:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0060.158m213	360	3:02	00:40:30.2	+40:50:55	300	90	3.0	#57 Velocity S	4	ok clearing nicely
0061.COMP	5	3:08	00:40:30.2	+40:50:55	300	90	3.0	#57 Velocity S	4	
0062.2M22553912+4412309	300	3:09	22:55:39.1	+44:12:30	300	90	3.0	#141 Mapping t	4	
0063.COMP	5	3:15	22:55:39.1	+44:12:30	300	90	3.0	#141 Mapping t	4	
0064.2M22564821+4311318	480	3:15	22:56:48.2	+43:11:31	300	90	3.0	#141 Mapping t	4	
0065.COMP	5	3:24	22:56:48.2	+43:11:31	300	90	3.0	#141 Mapping t	4	
0066.2M22572699+4540438	330	3:24	22:57:26.9	+45:40:43	300	90	3.0	#141 Mapping t	2	
0067.COMP	10	3:30	22:57:26.9	+45:40:43	300	90	3.0	#141 Mapping t	2	
0068.2M23041898+4632117	300	3:31	23:04:18.9	+46:32:11	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0069.COMP	5	3:36	23:04:18.9	+46:32:11	300	90	3.0	#141 Mapping t	4	
0070.2M23044211+4432374	420	3:37	23:04:42.1	+44:32:37	300	90	3.0	#141 Mapping t	4	
0071.COMP	5	3:44	23:04:42.1	+44:32:37	300	90	3.0	#141 Mapping t	4	
0072.2M2580022+3640094	360	3:45	22:58:00.2	+36:40:09	300	90	3.0	#141 Mapping t	4	
0073.COMP	5	3:51	22:58:00.2	+36:40:09	300	90	3.0	#141 Mapping t	4	
0074.2M23072159+3356313	330	3:52	23:07:21.5	+33:56:31	300	90	3.0	#141 Mapping t	4	
0075.COMP	5	3:58	23:07:21.5	+33:56:31	300	90	3.0	#141 Mapping t	4	
0076.2M23071897+4212044	300	3:58	23:07:18.9	+42:12:04	300	90	3.0	#141 Mapping t	2	
0077.COMP	10	4:04	23:07:18.9	+42:12:04	300	90	3.0	#141 Mapping t	2	
0078.2M23203937+4823260	330	4:04	23:20:39.3	+48:23:26	300	90	3.0	#141 Mapping t	2	
0079.COMP	10	4:10	23:20:39.3	+48:23:26	300	90	3.0	#141 Mapping t	2	
0080.2M23202242+5138450	420	4:11	23:20:22.4	+51:38:45	300	90	3.0	#141 Mapping t	2	blend
0081.COMP	10	4:19	23:20:22.4	+51:38:45	300	90	3.0	#141 Mapping t	2	
0082.2M23355214+5215387	360	4:20	23:35:52.1	+52:15:38	300	90	3.0	#141 Mapping t	4	
0083.COMP	5	4:26	23:35:52.1	+52:15:38	300	90	3.0	#141 Mapping t	4	
0084.2M23344228+4730001	300	4:27	23:34:42.2	+47:30:00	300	90	3.0	#141 Mapping t	4	
0085.COMP	5	4:32	23:34:42.2	+47:30:00	300	90	3.0	#141 Mapping t	4	
0086.2M23354257+4644518	300	4:32	23:35:42.5	+46:44:51	300	90	3.0	#141 Mapping t	4	
0087.COMP	5	4:38	23:35:42.5	+46:44:51	300	90	3.0	#141 Mapping t	4	
0088.2M23360257+4407525	360	4:38	23:36:02.5	+44:07:52	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0089.COMP	5	4:45	23:36:02.5	+44:07:52	300	90	3.0	#141 Mapping t	4	
0090.2M0442048+4322492	420	4:45	23:34:20.4	+43:22:49	300	90	3.0	#141 Mapping t	2	
0091.COMP	10	4:53	23:34:20.4	+43:22:49	300	90	3.0	#141 Mapping t	2	
0092.2M0442048+3922477	300	4:53	23:33:29.6	+39:22:47	300	90	3.0	#141 Mapping t	4	
0093.COMP	5	4:59	23:33:29.6	+39:22:47	300	90	3.0	#141 Mapping t	4	
0094.2M04421948+2126235	360	5:07	04:42:19.5	+21:26:23	300	90	3.0	#141 Mapping t	4	
0095.COMP	5	5:04	04:42:19.5	+21:26:23	300	90	3.0	#141 Mapping t	4	
0096.2M04421948+2126235	360	5:07	04:42:19.5	+21:26:23	300	90	3.0	#141 Mapping t	4	
0097.COMP	5	5:13	04:42:19.5	+21:26:23	300	90	3.0	#141 Mapping t	4	
0098.2M04483247+2202565	900	5:14	04:48:32.4	+22:02:56	300	90	3.0	#141 Mapping t	4	
0099.COMP	5	5:29	04:48:32.4	+22:02:56	300	90	3.0	#141 Mapping t	4	
0100.2M04414559+2418011	600	5:30	04:41:45.5	+24:18:11	300	90	3.0	#141 Mapping t	4	
0101.COMP	5	5:40	04:41:45.5	+24:18:11	300	90	3.0	#141 Mapping t	4	
0102.2M04470397+2800276	900	5:41	04:47:3.9	+28:00:27	300	90	3.0	#141 Mapping t	2	
0103.COMP	10	5:57	04:47:3.9	+28:00:27	300	90	3.0	#141 Mapping t	2	
0104.2M04383187+2800044	900	5:58	04:38:31.8	+28:00:4	300	90	3.0	#141 Mapping t	2	
0105.COMP	10	6:13	04:38:31.8	+28:00:4	300	90	3.0	#141 Mapping t	2	
0106.2M04530901+1029523	900	6:14	04:53:9.0	+10:29:52	300	90	3.0	#141 Mapping t	2	
0107.COMP	10	6:30	04:53:9.0	+10:29:52	300	90	3.0	#141 Mapping t	2	
0108.2M04161747+1358503	1200	6:31	04:16:17.4	+13:58:50	300	90	3.0	#141 Mapping t	2	



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0109.COMP	10	6:51	04:16:17.4	+13:58:50	300	90	3.0	#141 Mapping t	2	
0110.2M04153772+1721413	1080	6:52	04:15:37.7	+17:21:41	300	90	3.0	#141 Mapping t	2	
0111.COMP	10	7:10	04:15:37.7	+17:21:41	300	90	3.0	#141 Mapping t	2	
0112.2M05051922+1856240	1200	7:11	05:05:19.2	+18:56:23	300	90	3.0	#141 Mapping t	2	
0113.COMP	10	7:31	05:05:19.2	+18:56:23	300	90	3.0	#141 Mapping t	2	
0114.2M05022547+2422276	900	7:32	05:02:25.4	+24:22:27	300	90	3.0	#141 Mapping t	2	
0115.COMP	10	7:48	05:02:25.4	+24:22:27	300	90	3.0	#141 Mapping t	2	
0116.2M04004942+6840100	1020	7:50	04:00:49.4	+68:40:10	300	90	3.0	#141 Mapping t	2	
0117.COMP	10	8:07	04:00:49.4	+68:40:10	300	90	3.0	#141 Mapping t	2	
0118.2M06013233+6437068	270	8:08	06:01:32.3	+64:37:7	300	90	3.0	#141 Mapping t	4	
0119.COMP	5	8:13	06:01:32.3	+64:37:7	300	90	3.0	#141 Mapping t	4	
0120.2M06020595+6308542	360	8:14	06:02:5.9	63:08:54	300	90	3.0	#141 Mapping t	4	
0121.COMP	5	8:20	06:02:5.9	63:08:54	300	90	3.0	#141 Mapping t	4	
0122.2M06004940+5333128	420	8:21	06:00:49.3	+53:33:13	300	90	3.0	#141 Mapping t	4	
0123.COMP	5	8:28	06:00:49.3	+53:33:13	300	90	3.0	#141 Mapping t	4	
0124.2M06000964+5445565	360	8:29	06:00:9.6	54:45:56	300	90	3.0	#141 Mapping t	4	
0125.COMP	5	8:35	06:00:9.6	54:45:56	300	90	3.0	#141 Mapping t	4	
0126.2M06004855+5146199	360	8:36	06:00:48.5	51:46:19	300	90	3.0	#141 Mapping t	4	
0127.COMP	5	8:42	06:00:48.5	51:46:19	300	90	3.0	#141 Mapping t	4	
0128.2M06022925+5043102	720	8:43	06:02:29.2	50:43:10	300	90	3.0	#141 Mapping t	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0129.COMP	5	8:55	06:02:29.2	50:43:10	300	90	3.0	#141 Mapping t	4	
0130.2M06023452+4936113	450	8:56	06:02:34.5	49:36:11	300	90	3.0	#141 Mapping t	2	
0131.COMP	10	9:04	06:02:34.5	49:36:11	300	90	3.0	#141 Mapping t	2	
0132.sn2005mc	1200	9:08	08:27:06.3	21:38:45	300	0	3.0	#2 SN Observat	2	
0133.COMP	10	9:28	08:27:06.3	21:38:45	300	0	3.0	#2 SN Observat	2	
0134.sn2005ms	1200	9:30	08:49:14.3	+36:07:47	300	0	3.0	#2 SN Observat	2	
0135.COMP	10	9:51	08:49:14.3	+36:07:47	300	0	3.0	#2 SN Observat	2	
0136.sn2005mf	1500	9:53	09:08:42.3	+44:48:51	300	-5	3.0	#2 SN Observat	2	
0137.COMP	10	10:18	09:08:42.3	+44:48:51	300	-5	3.0	#2 SN Observat	2	
0138.HD84937	10	10:21	09:48:54.8	13:45:13	300	-9	3.0	#56 Spectrophoto	2	
0139.HD84937	10	10:21	09:48:54.8	13:45:13	300	-9	3.0	#56 Spectrophoto	2	
0140.HD84937	10	10:22	09:48:54.8	13:45:13	300	-9	3.0	#56 Spectrophoto	2	
0141.COMP	10	10:23	09:48:54.8	13:45:13	300	-9	3.0	#56 Spectrophoto	2	
0142.2M06485493+1151582	480	10:25	06:48:54.9	11:51:58	300	90	3.0	#141 Mapping t	4	
0143.COMP	5	10:34	06:48:54.9	11:51:58	300	90	3.0	#141 Mapping t	4	
0144.2M06485858+1659338	300	10:34	06:48:58.5	16:59:33	300	90	3.0	#141 Mapping t	4	
0145.COMP	5	10:40	06:48:58.5	16:59:33	300	90	3.0	#141 Mapping t	4	
0146.2M06492545+1920195	420	10:40	06:49:25.4	19:20:19	300	90	3.0	#141 Mapping t	4	
0147.COMP	5	10:48	06:49:25.4	19:20:19	300	90	3.0	#141 Mapping t	4	
0148.2M06544386+2244308	300	10:48	06:54:43.8	22:44:30	300	90	3.0	#141 Mapping t	4	



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0149.COMP	5	10:54	06:54:43.8	22:44:30	300	90	3.0	#141 Mapping t	4	
0150.2M06571566+2501596	300	10:54	06:57:15.6	25:01:59	300	90	3.0	#141 Mapping t	4	
0151.COMP	5	10:59	06:57:15.6	25:01:59	300	90	3.0	#141 Mapping t	4	
0152.2M06523888+2813211	330	11:00	06:52:38.8	28:13:21	300	90	3.0	#141 Mapping t	4	
0153.COMP	5	11:06	06:52:38.8	28:13:21	300	90	3.0	#141 Mapping t	4	
0154.2M06521466+3255381	240	11:06	06:52:14.6	32:55:37	300	90	3.0	#141 Mapping t	4	
0155.COMP	5	11:11	06:52:14.6	32:55:37	300	90	3.0	#141 Mapping t	4	
0156.2M06514892+3236549	360	11:11	06:51:48.9	32:36:54	300	90	3.0	#141 Mapping t	4	
0157.COMP	5	11:18	06:51:48.9	32:36:54	300	90	3.0	#141 Mapping t	4	
0158.2M07060329+4201379	300	11:18	07:06:3.2	42:01:37	300	90	3.0	#141 Mapping t	4	
0159.COMP	5	11:24	07:06:3.2	42:01:37	300	90	3.0	#141 Mapping t	4	
0160.2M07162757+4343399	300	11:24	07:16:27.5	43:43:39	300	90	3.0	#141 Mapping t	4	
0161.COMP	5	11:29	07:16:27.5	43:43:39	300	90	3.0	#141 Mapping t	4	
0162.2M07174944+4323552	300	11:30	07:17:49.4	43:23:55	300	90	3.0	#141 Mapping t	4	
0163.COMP	5	11:35	07:17:49.4	43:23:55	300	90	3.0	#141 Mapping t	4	
0164.2M07195750+4600583	210	11:36	07:19:57.5	46:00:58	300	90	3.0	#141 Mapping t	4	
0165.COMP	5	11:40	07:19:57.5	46:00:58	300	90	3.0	#141 Mapping t	4	
0166.2M07202524+4242425	300	11:40	07:20:25.2	42:42:42	300	90	3.0	#141 Mapping t	2	
0167.COMP	10	11:46	07:20:25.2	42:42:42	300	90	3.0	#141 Mapping t	2	
0168.2M07215017+3846106	360	11:46	07:21:50.1	38:46:10	300	90	3.0	#141 Mapping t	4	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0169.COMP	5	11:53	07:21:50.1	38:46:10	300	90	3.0	#141 Mapping t	4	
0170.Feige34	120	11:54	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0171.Feige34	120	11:56	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0172.COMP	10	11:59	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0173.2M10100617+1304527	330	12:00	10:10:06.1	13:04:52	300	90	3.0	#141 Mapping t	4	
0174.COMP	5	12:06	10:10:06.1	13:04:52	300	90	3.0	#141 Mapping t	4	
0175.2M10174864+1459479	210	12:06	10:17:48.6	14:59:47	300	90	3.0	#141 Mapping t	4	
0176.COMP	5	12:10	10:17:48.6	14:59:47	300	90	3.0	#141 Mapping t	4	
0177.2M10190969+1606423	420	12:11	10:19:09.7	+16:06:42	300	90	3.0	#141 Mapping t	4	
0178.COMP	5	12:18	10:19:09.7	+16:06:42	300	90	3.0	#141 Mapping t	4	
0179.2M10215030+1542530	240	12:18	10:21:50.3	+15:42:52	300	90	3.0	#141 Mapping t	4	
0180.COMP	5	12:23	10:21:50.3	+15:42:52	300	90	3.0	#141 Mapping t	4	
0181.2M10222853+1545135	240	12:23	10:22:28.5	15:45:13	300	90	3.0	#141 Mapping t	4	
0182.COMP	5	12:27	10:22:28.5	15:45:13	300	90	3.0	#141 Mapping t	4	
0183.2M10213884+1318460	330	12:28	10:21:38.8	13:18:46	300	90	3.0	#141 Mapping t	4	
0184.COMP	5	12:34	10:21:38.8	13:18:46	300	90	3.0	#141 Mapping t	4	
0185.2M10214973+1326500	240	12:34	10:21:49.7	+13:26:49	300	90	3.0	#141 Mapping t	4	
0186.COMP	5	12:39	10:21:49.7	+13:26:49	300	90	3.0	#141 Mapping t	4	
0187.2M10230955+1214225	300	12:39	10:23:09.5	12:14:22	300	90	3.0	#141 Mapping t	4	
0188.COMP	5	12:44	10:23:09.5	12:14:22	300	90	3.0	#141 Mapping t	4	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0189.2M10225359+2436225	240	12:45	10:22:53.5	24:36:22	300	90	3.0	#141 Mapping t	4	
0190.COMP	5	12:49	10:22:53.5	24:36:22	300	90	3.0	#141 Mapping t	4	
0191.2M10182708+2427126	210	12:50	10:18:27.0	+24:27:12	300	90	3.0	#141 Mapping t	4	
0192.COMP	5	12:54	10:18:27.0	+24:27:12	300	90	3.0	#141 Mapping t	4	
0193.2M10190242+3822289	300	12:55	10:19:2.4	+38:22:28	300	90	3.0	#141 Mapping t	4	
0194.COMP	5	13:00	10:19:2.4	+38:22:28	300	90	3.0	#141 Mapping t	4	
0195.2M10575396+3732312	240	13:01	10:57:53.9	37:32:31	300	90	3.0	#141 Mapping t	4	
0196.COMP	5	13:05	10:57:53.9	37:32:31	300	90	3.0	#141 Mapping t	4	
0197.2M10575931+4049406	180	13:05	10:57:59.3	+40:49:40	300	90	3.0	#141 Mapping t	4	
0198.COMP	5	13:09	10:57:59.3	+40:49:40	300	90	3.0	#141 Mapping t	4	
0199.N5548	240	13:10	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0200.N5548	240	13:14	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0201.COMP	10	13:18	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0202.N4151	30	13:19	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0203.N4151	30	13:20	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0204.N4151	60	13:21	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0205.COMP	10	13:22	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0206.Feige66	60	13:23	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0207.Feige66	60	13:24	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	
0208.COMP	10	13:26	12:37:23.4	25:04:01	300	90	3.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0209-0218.BIAS	0	13:28	12:37:23.4	25:04:01	300	90	3.0	#141 Mapping t	4	
0219-0228.FLAT	8	13:32	12:37:23.4	25:04:01	300	90	3.0	#141 Mapping t	4	
0229-0238.BIAS	0	13:34	12:37:23.4	25:04:01	300	90	3.0	#141 Mapping t	2	
0239-0248.FLAT	16	13:39	12:37:23.4	25:04:01	300	90	3.0	#141 Mapping t	2	
0249-0253.DARK	900	14:48	12:37:23.4	25:04:01	300	90	3.0	#141 Mapping t	2	
0254-0258.DARK	900	16:04	12:37:23.4	25:04:01	300	90	3.0	#141 Mapping t	4	



WHIPPLE OBSERVATORY

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Observers M Calkins

Coll. Focus 1000

Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001.DARK	900	0:30	23:59:00.6	+31:27:44	300	90	3.0	#141 Mapping t	4	
0002-0003.DARK	900	1:00	00:29:14.2	+31:27:43	300	90	3.0	#141 Mapping t	4	
0004.DARK	900	1:15	00:44:24.8	+31:27:44	300	90	3.0	#141 Mapping t	4	
0005.DARK	900	1:30	00:59:32.0	+31:27:45	300	90	3.0	#141 Mapping t	4	
0006.DARK	900	1:45	01:14:42.6	+31:27:47	300	90	3.0	#141 Mapping t	4	
0007-0016.BIAS	0	2:06	01:20:21.4	+31:27:48	300	90	3.0	#141 Mapping t	4	
0017-0024.FLAT	8	2:09	01:23:14.9	+31:27:48	300	90	3.0	#141 Mapping t	4	
0025-0026.FLAT	8	2:09	01:23:44.9	+31:27:49	300	90	3.0	#141 Mapping t	4	
0027-0036.BIAS	0	2:12	01:26:52.0	+31:27:49	300	90	3.0	#141 Mapping t	2	
0037-0048.FLAT	16	2:20	01:34:31.4	+31:27:50	300	90	3.0	#141 Mapping t	2	
0049-0056.FLAT	16	2:24	01:38:20.9	+31:27:51	300	90	3.0	#141 Mapping t	2	
0057.BDp284211	60	2:27	21:51:11.1	28:51:53	300	72	3.0	#56 Spectropho	2	
0058.BDp284211	60	2:28	21:51:11.1	28:51:53	300	72	3.0	#56 Spectropho	2	
0059.COMP	12	2:30	21:51:11.1	28:51:53	300	72	3.0	#56 Spectropho	2	
0060.2M3213266+8300409	420	2:34	23:21:32.6	+83:00:40	300	90	3.0	#141 Mapping t	2	
0061.COMP	12	2:42	23:21:32.6	+83:00:40	300	90	3.0	#141 Mapping t	2	
0062.BDp174708	25	2:45	22:11:31.4	18:05:33	300	64	3.0	#56 Spectropho	2	
0063.BDp174708	25	2:45	22:11:31.4	18:05:33	300	64	3.0	#56 Spectropho	2	
0064.BDp174708	25	2:46	22:11:31.4	18:05:33	300	64	3.0	#56 Spectropho	2	
0065.COMP	12	2:47	22:11:31.4	18:05:33	300	64	3.0	#56 Spectropho	2	



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Observers M Calkins

Coll. Focus 1000

Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0066.2M23243380+5449577	1200	2:50	23:24:33.8	+54:49:57	300	95	3.0	#141 Mapping t	2	
0067.COMP	12	3:10	23:24:33.8	+54:49:57	300	95	3.0	#141 Mapping t	2	
0068.2M23244834+4407564	1200	3:14	23:24:48.3	+44:07:56	300	90	3.0	#141 Mapping t	2	
0069.COMP	12	3:35	23:24:48.3	+44:07:56	300	90	3.0	#141 Mapping t	2	
0070.2M23245075+3611408	1080	3:37	23:24:50.7	+36:11:40	300	90	3.0	#141 Mapping t	2	
0071.COMP	12	3:55	23:24:50.7	+36:11:40	300	90	3.0	#141 Mapping t	2	
0072.2M23251209+2259335	900	3:58	23:25:12.0	+22:59:33	300	90	3.0	#141 Mapping t	2	
0073.COMP	12	4:14	23:25:12.0	+22:59:33	300	90	3.0	#141 Mapping t	2	
0074.2M23254346+7010535	1200	4:18	23:25:43.4	+70:10:53	300	55	3.0	#141 Mapping t	2	try again...
0075.COMP	12	4:38	23:25:43.4	+70:10:53	300	55	3.0	#141 Mapping t	2	
0076.2M23254346+7010535	1800	4:39	23:25:43.4	+70:10:53	300	55	3.0	#141 Mapping t	2	
0077.COMP	12	5:10	23:25:43.4	+70:10:53	300	55	3.0	#141 Mapping t	2	
0078.sn20051z	1200	5:14	02:10:49.7	+34:58:58	300	87	3.0	#2 SN Observat	2	
0079.COMP	12	5:35	02:10:49.7	+34:58:58	300	87	3.0	#2 SN Observat	2	
0080.cvso-038456	540	5:37	05:27:02.5	+01:55:35	300	87	3.0	#112 Orion PMS	2	
0081.COMP	12	5:46	05:27:02.5	+01:55:35	300	87	3.0	#112 Orion PMS	2	
0082.cvso-043024	720	5:47	05:27:13.8	+03:46:41	300	95	3.0	#112 Orion PMS	2	
0083.COMP	12	6:00	05:27:13.8	+03:46:41	300	90	3.0	#112 Orion PMS	2	
0084.cvso-038796	720	6:01	05:27:19.0	+02:08:39	300	90	3.0	#112 Orion PMS	2	
0085.COMP	12	6:14	05:27:19.0	+02:08:39	300	90	3.0	#112 Orion PMS	2	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG

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Observers M Calkins

Coll. Focus 1000

Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0086.cvso-043479	390	6:16	05:27:33.0	+03:41:49	300	83	3.0	#112 Orion PMS	2	
0087.COMP	12	6:22	05:27:33.0	+03:41:49	300	83	3.0	#112 Orion PMS	2	
0088.cvso-043532	540	6:24	05:27:34.8	+03:57:00	300	90	3.0	#112 Orion PMS	2	
0089.COMP	12	6:35	05:27:34.8	+03:57:00	300	90	3.0	#112 Orion PMS	2	
0090.cvso-039293	720	6:37	05:27:42.5	+01:53:28	300	110	3.0	#112 Orion PMS	2	
0091.COMP	12	6:50	05:27:42.5	+01:53:28	300	110	3.0	#112 Orion PMS	2	
0092.cvso-039448	240	6:51	05:27:49.9	+02:11:36	300	90	3.0	#112 Orion PMS	2	
0093.COMP	12	6:56	05:27:49.9	+02:11:36	300	90	3.0	#112 Orion PMS	2	
0094.cvso-041710	720	6:56	05:27:50.0	+02:34:11	300	90	3.0	#112 Orion PMS	2	
0095.COMP	12	7:09	05:27:50.0	+02:34:11	300	90	3.0	#112 Orion PMS	2	
0096.cvso-041950	420	7:12	05:28:00.5	+02:42:46	300	90	3.0	#112 Orion PMS	2	
0097.COMP	12	7:19	05:28:00.5	+02:42:46	300	90	3.0	#112 Orion PMS	2	
0098.cvso-039752	780	7:21	05:28:02.7	+02:06:49	300	90	3.0	#112 Orion PMS	2	
0099.COMP	12	7:35	05:28:02.7	+02:06:49	300	90	3.0	#112 Orion PMS	2	
0100.cvso-042250	420	7:36	05:28:14.9	+02:35:38	300	90	3.0	#112 Orion PMS	2	
0101.COMP	12	7:43	05:28:14.9	+02:35:38	300	90	3.0	#112 Orion PMS	2	
0102.cvso-042459	600	7:44	05:28:23.9	+02:33:01	300	90	3.0	#112 Orion PMS	2	
0103.COMP	12	7:55	05:28:23.9	+02:33:01	300	90	3.0	#112 Orion PMS	2	
0104.cvso-042806	780	7:56	05:28:40.6	+02:23:59	300	80	3.0	#112 Orion PMS	2	
0105.COMP	12	8:10	05:28:40.6	+02:23:59	300	80	3.0	#112 Orion PMS	2	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG

UT Date 2005-12-31

Observers M Calkins

Coll. Focus 1000

Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0106.sn2005mf	1500	8:13	09:08:42.3	+44:48:51	300	65	3.0	#2 SN Observat	2	
0107.COMP	12	8:38	09:08:42.3	+44:48:51	300	65	3.0	#2 SN Observat	2	clouds coming in...
0108.2M06002777+0933380	1500	9:05	06:00:27.7	09:33:38	300	110	3.0	#141 Mapping t	2	
0109.COMP	12	9:30	06:00:27.7	09:33:38	300	110	3.0	#141 Mapping t	2	
0110.2M06011882-0709598	360	9:32	06:01:18.8	-07:09:59	300	90	3.0	#141 Mapping t	2	will get again
0111.COMP	12	9:39	06:01:18.8	-07:09:59	300	90	3.0	#141 Mapping t	2	
0112.2M10512991+4644415	360	9:59	10:51:29.9	+46:44:41	300	100	3.0	#141 Mapping t	2	try, try, again
0113.COMP	12	10:05	10:51:29.9	+46:44:41	300	100	3.0	#141 Mapping t	2	
0114.2M10512991+4644415	900	10:06	10:51:29.9	+46:44:41	300	100	3.0	#141 Mapping t	2	
0115.COMP	12	10:22	10:51:29.9	+46:44:41	300	100	3.0	#141 Mapping t	2	
0116.2M10515013+7734192	1200	11:23	10:51:50.1	+77:34:19	300	90	3.0	#141 Mapping t	2	
0117.COMP	12	11:44	10:51:50.1	+77:34:19	300	90	3.0	#141 Mapping t	2	
0118.2M10515169+6951040	360	11:46	10:51:51.7	69:51:4	300	90	3.0	#141 Mapping t	2	
0119.COMP	12	11:52	10:51:51.7	69:51:4	300	90	3.0	#141 Mapping t	2	
0120.2M10515367+1005576	1200	11:55	10:51:53.6	10:05:57	300	90	3.0	#141 Mapping t	2	
0121.COMP	12	12:15	10:51:53.6	10:05:57	300	90	3.0	#141 Mapping t	2	
0122.2M10520881+2056336	300	12:17	10:52:8.8	20:56:33	300	90	3.0	#141 Mapping t	2	
0123.COMP	12	12:23	10:52:8.8	20:56:33	300	90	3.0	#141 Mapping t	2	
0124.2M10520903+2058046	330	12:24	10:52:9.0	20:58:4	300	90	3.0	#141 Mapping t	2	
0125.COMP	12	12:30	10:52:9.0	20:58:4	300	90	3.0	#141 Mapping t	2	



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Observers M Calkins

Coll. Focus 1000

Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0126.sn2005k1	1020	12:32	12:24:35.6	+39:23:03	300	40	3.0	#2 SN Observat	2	
0127.COMP	12	12:50	12:24:35.6	+39:23:03	300	40	3.0	#2 SN Observat	2	
0128.2M10524271+4819464	720	12:52	10:52:42.7	48:19:46	300	90	3.0	#141 Mapping t	2	
0129.COMP	12	13:05	10:52:42.7	48:19:46	300	90	3.0	#141 Mapping t	2	
0130.2M10525975+1049517	240	13:06	10:52:59.7	+10:49:51	300	90	3.0	#141 Mapping t	2	
0131.COMP	12	13:11	10:52:59.7	+10:49:51	300	90	3.0	#141 Mapping t	2	
0132.Feige34	60	13:15	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0133.COMP	12	13:16	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0134-0143.BIAS	0	13:21	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0144-0153.FLAT	8	13:24	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0154-0163.BIAS	0	13:32	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0164-0183.FLAT	16	13:43	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0184-0193.DARK	900	16:02	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	1:08	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0011-0020.BIAS	0	2:15	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0021-0030.FLAT	8	2:18	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	4	
0031-0040.BIAS	0	2:22	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0041-0060.FLAT	16	2:38	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0061.Feige34	120	9:05	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	through clouds
0062.CDMP	12	9:08	10:39:36.8	43:06:10	300	90	3.0	#56 Spectropho	2	
0063.cvso-042830	1800	9:12	05:28:41.8	+02:27:32	300	90	3.0	#112 Orion PMS	2	
0064.CDMP	12	9:44	05:28:41.8	+02:27:32	300	90	3.0	#112 Orion PMS	2	
0065.cvso-042934	1080	9:46	05:28:45.5	+02:22:02	300	90	3.0	#112 Orion PMS	2	
0066.CDMP	12	10:05	05:28:45.5	+02:22:02	300	90	3.0	#112 Orion PMS	2	
0067.cvso-042981	720	10:06	05:28:47.0	+02:52:15	300	90	3.0	#112 Orion PMS	2	
0068.CDMP	12	10:19	05:28:47.0	+02:52:15	300	90	3.0	#112 Orion PMS	2	
0069.sn2005mc	1500	10:22	08:27:06.3	21:38:45	300	20	3.0	#2 SN Observat	2	
0070.CDMP	12	10:48	08:27:06.3	21:38:45	300	20	3.0	#2 SN Observat	2	
0071.Feige34	50	10:50	10:39:36.8	43:06:10	300	30	3.0	#56 Spectropho	2	
0072.CDMP	12	10:51	10:39:36.8	43:06:10	300	30	3.0	#56 Spectropho	2	
0073.HD84937	7	10:54	09:48:54.8	13:45:13	300	16	3.0	#56 Spectropho	2	
0074.HD84937	7	10:54	09:48:54.8	13:45:13	300	16	3.0	#56 Spectropho	2	
0075.HD84937	7	10:54	09:48:54.8	13:45:13	300	16	3.0	#56 Spectropho	2	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG

UT Date 2006-01-01

Observers M Calkins

Coll. Focus 1000

Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0076.COMP	12	10:55	09:48:54.8	13:45:13	300	16	3.0	#56 Spectropho	2	
0077.2M10531555+7204563	480	11:00	10:53:15.5	72:04:56	300	90	3.0	#141 Mapping t	2	
0078.COMP	12	11:08	10:53:15.5	72:04:56	300	90	3.0	#141 Mapping t	2	
0079.2M10034862+7653285	360	11:11	10:03:48.6	76:53:28	300	90	3.0	#141 Mapping t	2	
0080.COMP	12	11:17	10:03:48.6	76:53:28	300	90	3.0	#141 Mapping t	2	
0081.2M10045767+3508399	480	11:19	10:04:57.6	35:08:39	300	90	3.0	#141 Mapping t	2	
0082.COMP	12	11:27	10:04:57.6	35:08:39	300	90	3.0	#141 Mapping t	2	
0083.2M10071289+4740290	360	11:29	10:07:12.8	+47:40:28	300	90	3.0	#141 Mapping t	2	
0084.COMP	12	11:36	10:07:12.8	+47:40:28	300	90	3.0	#141 Mapping t	2	
0085.2M10071573+5707555	480	11:39	10:07:15.7	57:07:55	300	90	3.0	#141 Mapping t	2	
0086.COMP	12	11:47	10:07:15.7	57:07:55	300	90	3.0	#141 Mapping t	2	
0087.2M10084207+6705598	480	11:49	10:08:42.0	+67:05:59	300	90	3.0	#141 Mapping t	2	
0088.COMP	12	12:02	10:08:42.0	+67:05:59	300	90	3.0	#141 Mapping t	2	
0089.2M10105756+8044142	360	12:05	10:10:57.5	80:44:14	300	90	3.0	#141 Mapping t	2	
0090.COMP	12	12:12	10:10:57.5	80:44:14	300	90	3.0	#141 Mapping t	2	
0091.2M10141606+7683119	480	12:13	10:14:16.0	76:33:11	300	90	3.0	#141 Mapping t	2	
0092.COMP	12	12:21	10:14:16.0	76:33:11	300	90	3.0	#141 Mapping t	2	
0093.2M10135050+3822316	300	12:23	10:13:50.5	38:22:31	300	90	3.0	#141 Mapping t	2	
0094.COMP	12	12:29	10:13:50.5	38:22:31	300	90	3.0	#141 Mapping t	2	
0095.sn2005mf	1500	12:32	09:08:42.3	+44:48:51	300	99	3.0	#2 SN Observat	2	



UT Date 2006-01-01 Observers M Calkins

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0096.COMP	12	12:57	09:08:42.3	+44:48:51	300	99	3.0	#2 SN Observat	2	
0097.N3227	150	12:59	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0098.N3227	150	13:02	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0099.COMP	12	13:05	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0100.MRK421	300	13:06	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0101.MRK421	300	13:11	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0102.COMP	12	13:17	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0103.N4051	150	13:18	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0104.N4051	150	13:20	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0105.COMP	12	13:24	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0106.N4151	30	13:25	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0107.N4151	30	13:26	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0108.COMP	12	13:28	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0109-0118.BIAS	0	13:34	12:10:32.6	+39:24:21	300	90	3.0	#2 SN Observat	4	
0119-0128.FLAT	8	13:37	12:10:32.6	+39:24:21	300	90	3.0	#2 SN Observat	4	
0129-0138.BIAS	0	13:39	12:10:32.6	+39:24:21	300	90	3.0	#2 SN Observat	2	
0139-0158.FLAT	16	13:52	12:10:32.6	+39:24:21	300	90	3.0	#2 SN Observat	2	
0159-0168.DARK	900	16:13	12:10:32.6	+39:24:21	300	90	3.0	#2 SN Observat	2	