

UT Date 2002-04-03 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001.DARK	900	0:06	05:42:24.0	31:30:19	300	90	3.0	none	4	
0002.DARK	900	0:22	05:57:35.0	31:30:21	300	90	3.0	none	4	
0003.DARK	900	0:37	06:12:45.0	31:30:23	300	90	3.0	none	4	
0004.DARK	900	0:52	06:27:52.0	31:30:26	300	90	3.0	none	4	
0005.DARK	900	1:07	06:43:03.0	31:30:28	300	90	3.0	none	4	
0006-0015.BIAS	0	1:23	06:44:25.0	31:30:28	300	90	3.0	none	4	
0016-0025.FLAT	6	1:26	06:47:31.0	31:30:29	300	90	3.0	none	4	
0026-0035.BIAS	0	1:29	06:49:54.0	31:30:29	300	90	3.0	none	2	
0036.FLAT	12	1:29	06:50:38.0	31:30:29	300	90	3.0	none	2	
0037-0045.FLAT	12	1:33	06:54:19.0	31:30:30	300	90	3.0	none	2	
0046-0050.sky	2	2:08	07:29:15.0	31:30:36	300	90	3.0	none	4	
0051.COMP	5	2:08	07:29:50.0	31:30:36	300	90	3.0	none	4	
0052.Hiltner600	50	2:24	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0053.Hiltner600	50	2:25	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0054.COMP	5	2:26	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0055.Hiltner600	50	2:27	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0056.Hiltner600	50	2:28	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0057.COMP	12	2:29	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0058.Hiltner600	50	2:31	06:42:37.2	02:11:25	300	24	3.0	#56 Spectropho	2	
0059.Hiltner600	50	2:32	06:42:37.2	02:11:25	300	24	3.0	#56 Spectropho	2	

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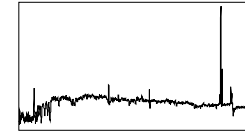
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0060.COMP	12	2:33	06:42:37.2	02:11:25	300	24	3.0	#56 Spectropho	2	
0061.BGGem	300	2:36	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0062.COMP	12	2:42	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0063.BGGem	1200	2:43	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0064.COMP	12	3:04	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0065.sn2002bv	1200	3:09	07:50:01.1	+30:01:32	300	69	3.0	#2 SN Observat	2	row=76
0066.COMP	12	3:30	07:50:01.1	+30:01:32	300	69	3.0	#2 SN Observat	2	
0067.sn2002bx	1200	3:32	09:19:54.9	+37:12:08	300	47	3.0	#2 SN Observat	2	
0068.COMP	12	3:52	09:19:54.9	+37:12:08	300	47	3.0	#2 SN Observat	2	
0069.sn2002br	1200	3:56	10:34:08.9	+19:42:20	300	-52	3.0	#2 SN Observat	2	
0070.COMP	12	4:17	10:34:08.9	+19:42:20	300	-52	3.0	#2 SN Observat	2	
0071.sn2002bo	1200	4:20	10:18:06.5	+21:49:41	300	-38	3.0	#2 SN Observat	2	row=74
0072.COMP	12	4:40	10:18:06.5	+21:49:41	300	-38	3.0	#2 SN Observat	2	
0073.sn2002bf	1200	4:47	10:15:42.3	+55:40:06	300	-5	3.0	#2 SN Observat	2	
0074.COMP	12	5:07	10:15:42.3	+55:40:06	300	-5	3.0	#2 SN Observat	2	
0075.comas_014	480	5:10	12:39:18.4	31:59:23	300	90	3.0	#64 Comas	4	
0076.COMP	5	5:19	12:39:18.4	31:59:23	300	90	3.0	#64 Comas	4	
0077.comas_015	420	5:20	12:39:18.5	28:54:15	300	90	3.0	#64 Comas	2	row=74
0078.COMP	12	5:27	12:39:18.5	28:54:15	300	90	3.0	#64 Comas	2	
0079.comas_016	480	5:28	12:41:08.8	29:32:16	300	90	3.0	#64 Comas	4	

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0080.COMP	5	5:37	12:41:08.8	29:32:16	300	90	3.0	#64 Comas	4	
0081.comas_017	1200	5:38	12:42:47.5	33:17:15	300	69	3.0	#64 Comas	4	
0082.COMP	5	5:59	12:42:47.5	33:17:15	300	69	3.0	#64 Comas	4	
0083.comas_018	270	6:00	12:42:54.0	20:59:23	300	90	3.0	#64 Comas	4	
0084.COMP	5	6:05	12:42:54.0	20:59:23	300	90	3.0	#64 Comas	4	
0085.comas_019	240	6:05	12:45:06.6	21:10:10	300	90	3.0	#64 Comas	4	
0086.COMP	5	6:10	12:45:06.6	21:10:10	300	90	3.0	#64 Comas	4	
0087.comas_020	210	6:10	12:45:11.8	23:02:10	300	90	3.0	#64 Comas	4	
0088.COMP	5	6:14	12:45:11.8	23:02:10	300	90	3.0	#64 Comas	4	
0089.comas_021	600	6:16	12:47:11.7	26:42:47	300	50	3.0	#64 Comas	4	
0090.COMP	5	6:26	12:47:11.7	26:42:47	300	50	3.0	#64 Comas	4	
0091.comas_022	420	6:27	12:48:57.8	34:52:06	300	50	3.0	#64 Comas	4	
0092.COMP	5	6:35	12:48:57.8	34:52:06	300	50	3.0	#64 Comas	4	
0093.comas_023	300	6:36	12:49:08.8	27:22:08	300	90	3.0	#64 Comas	4	
0094.COMP	5	6:41	12:49:08.8	27:22:08	300	90	3.0	#64 Comas	4	
0095.comas_024	180	6:42	12:50:08.7	33:09:32	300	90	3.0	#64 Comas	4	
0096.COMP	5	6:45	12:50:08.7	33:09:32	300	90	3.0	#64 Comas	4	
0097.comas_025	210	6:46	12:50:53.0	34:09:25	300	90	3.0	#64 Comas	4	
0098.COMP	5	6:50	12:50:53.0	34:09:25	300	90	3.0	#64 Comas	4	
0099.comas_026	480	6:51	12:51:29.5	31:48:51	300	90	3.0	#64 Comas	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0100.COMP	5	6:59	12:51:29.5	31:48:51	300	90	3.0	#64 Comas	4	
0101.comas_027	210	7:00	12:53:52.5	32:14:30	300	90	3.0	#64 Comas	4	
0102.COMP	5	7:04	12:53:52.5	32:14:30	300	90	3.0	#64 Comas	4	
0103.comas_029	300	7:05	12:57:33.9	28:28:56	300	90	3.0	#64 Comas	4	
0104.COMP	5	7:10	12:57:33.9	28:28:56	300	90	3.0	#64 Comas	4	
0105.comas_030	480	7:11	12:58:58.1	27:35:41	300	90	3.0	#64 Comas	4	
0106.COMP	5	7:20	12:58:58.1	27:35:41	300	90	3.0	#64 Comas	4	
0107.sn2002bu	1200	7:25	12:17:37.1	+45:38:47	300	-22	3.0	#2 SN Observat	2	
0108.COMP	12	7:45	12:17:37.1	+45:38:47	300	-22	3.0	#2 SN Observat	2	
0109.sn2002bs	1200	7:51	13:18:30.3	-14:36:31	300	-2	3.0	#2 SN Observat	2	
0110.COMP	12	8:11	13:18:30.3	-14:36:31	300	-2	3.0	#2 SN Observat	2	
0111.Feige34	90	8:15	10:36:41.2	43:21:50	300	92	3.0	#56 Spectropho	2	
0112.COMP	12	8:17	10:36:41.2	43:21:50	300	92	3.0	#56 Spectropho	2	
0113.sn2002bt	1200	8:21	13:36:13.2	-01:02:19	300	2	3.0	#2 SN Observat	2	stopped by clouds
0114.COMP	12	8:34	13:36:13.2	-01:02:19	300	2	3.0	#2 SN Observat	2	
0115.MRK421	300	8:48	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0116.MRK421	300	8:53	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0117.MRK421	300	8:58	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0118.COMP	12	9:04	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0119.N3227	90	9:05	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
0120.N3227	90	9:07	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0121.N3227	90	9:09	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0122.COMP	12	9:11	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0123.N4051	120	9:12	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0124.N4051	120	9:14	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0125.N4051	120	9:17	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0126.COMP	12	9:19	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0127.N4151	35	9:21	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0128.N4151	35	9:22	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0129.N4151	35	9:22	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0130.COMP	12	9:24	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0131.N5548	90	9:26	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0132.N5548	90	9:27	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0133.N5548	90	9:29	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0134.COMP	12	9:31	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0135.sn2002bt	1200	9:38	13:36:13.2	-01:02:19	300	28	3.0	#2 SN Observat	2	
0136.COMP	12	9:58	13:36:13.2	-01:02:19	300	28	3.0	#2 SN Observat	2	
0137.sn2002bt	1200	10:06	13:36:13.2	-01:02:19	300	28	3.0	#2 SN Observat	2	
0138.COMP	12	10:27	13:36:13.2	-01:02:19	300	28	3.0	#2 SN Observat	2	
0139.BDp332642	120	10:38	15:50:03	33:05:49	600	90	2.0	#122 Halo Star	4	600L, 2arsec, tilt=430

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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>
0140.COMP	10	10:40	15:50:03	33:05:49	600	90	2.0	#122 Halo Star	4	
0141.hs892	1200	10:43	13:18:46.3	29:19:45	600	90	2.0	#122 Halo Star	4	
0142.COMP	10	11:03	13:18:46.3	29:19:45	600	90	2.0	#122 Halo Star	4	
0143.hs894	1200	11:04	13:19:54.0	29:42:22	600	90	2.0	#122 Halo Star	4	
0144.COMP	10	11:24	13:19:54.0	29:42:22	600	90	2.0	#122 Halo Star	4	
0145.hs895	1200	11:29	13:21:45.8	28:51:17	600	90	2.0	#122 Halo Star	4	
0146.COMP	10	11:49	13:21:45.8	28:51:17	600	90	2.0	#122 Halo Star	4	
0147.hs896	1200	11:50	13:22:09.6	29:14:57	600	90	2.0	#122 Halo Star	4	
0148.COMP	10	12:10	13:22:09.6	29:14:57	600	90	2.0	#122 Halo Star	4	
0149-0158.FLAT	40	12:42	13:30:12.1	29:06:01	600	90	2.0	#122 Halo Star	4	
0159.BIAS	0	12:43	13:30:12.1	29:06:01	600	90	2.0	#122 Halo Star	2	
0160-0169.DARK	900	15:02	13:30:12.1	29:06:01	600	90	2.0	#122 Halo Star	2	

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0001-0010.DARK	900	0:50	13:30:12.1	29:06:01	300	90	3.0	#122 Halo Star	4	
0011-0020.BIAS	0	1:14	13:30:12.1	29:06:01	300	90	3.0	#122 Halo Star	4	
0021-0030.FLAT	6	1:16	13:30:12.1	29:06:01	300	90	3.0	#122 Halo Star	4	
0031-0040.BIAS	0	1:19	13:30:12.1	29:06:01	300	90	3.0	#122 Halo Star	2	
0041-0050.FLAT	12	1:24	13:30:12.1	29:06:01	300	90	3.0	#122 Halo Star	2	
0051-0055.sky	2	2:09	13:30:12.1	29:06:01	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:09	13:30:12.1	29:06:01	300	90	3.0	#57 Velocity S	4	
0057.Hiltner600	50	2:23	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	great seeing!
0058.Hiltner600	50	2:24	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0059.COMP	5	2:26	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0060.Hiltner600	50	2:26	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0061.Hiltner600	50	2:27	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0062.COMP	12	2:29	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0063.Hiltner600	50	2:30	06:42:37.2	02:11:25	300	24	3.0	#56 Spectropho	2	
0064.Hiltner600	50	2:31	06:42:37.2	02:11:25	300	24	3.0	#56 Spectropho	2	
0065.COMP	12	2:32	06:42:37.2	02:11:25	300	24	3.0	#56 Spectropho	2	
0066.AGK2p14783	5	2:34	07:17:47	+14:59:38	300	90	3.0	#57 Velocity S	4	
0067.COMP	5	2:34	07:17:47	+14:59:38	300	90	3.0	#57 Velocity S	4	
0068.AGK2p14783	5	2:35	07:17:47	+14:59:38	300	90	3.0	#57 Velocity S	2	
0069.COMP	12	2:36	07:17:47	+14:59:38	300	90	3.0	#57 Velocity S	2	

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0070.Akn120	180	2:37	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	row=76
0071.COMP	12	2:41	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	
0072.BGGem	300	2:42	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0073.COMP	12	2:48	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0074.BGGem	1200	2:48	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0075.COMP	12	3:09	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0076.sn2002bx	1200	3:12	09:19:54.9	+37:12:08	300	60	3.0	#2 SN Observat	2	
0077.COMP	12	3:34	09:19:54.9	+37:12:08	300	60	3.0	#2 SN Observat	2	
0078.Feige34	150	3:44	10:36:41.2	43:21:50	600	63	2.0	#10 M67 Stars	2	
0079.COMP	30	3:47	10:36:41.2	43:21:50	600	63	2.0	#10 M67 Stars	2	
0080.HD89744	3	3:51	10:19:12.6	+41:29:02	600	60	2.0	#10 M67 stars	2	
0081.COMP	30	3:51	10:19:12.6	+41:29:02	600	60	2.0	#10 M67 stars	2	
0082.HD89744	1	3:52	10:19:12.6	+41:29:02	600	60	2.0	#10 M67 stars	2	
0083.COMP	30	3:53	10:19:12.6	+41:29:02	600	60	2.0	#10 M67 stars	2	
0084.m67_5544	480	3:58	8:51:13.6	11:50:37	600	15	2.0	#10 M67 stars	2	
0085.COMP	30	4:07	8:51:13.6	11:50:37	600	15	2.0	#10 M67 stars	2	
0086.m67_5249	900	4:09	8:50:53.0	11:40:02	600	24	2.0	#10 M67 stars	2	
0087.m67_5249	900	4:24	8:50:53.0	11:40:02	600	24	2.0	#10 M67 stars	2	
0088.COMP	12	4:40	8:50:53.0	11:40:02	600	24	2.0	#10 M67 stars	2	
0089.m67_6090	480	4:42	8:51:42.6	11:46:36	600	38	2.0	#10 M67 stars	2	



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0090.COMP	30	4:51	8:51:42.6	11:46:36	600	38	2.0	#10 M67 stars	2	
0091.m67_6467	1200	4:58	8:52:16.6	11:42:29	600	42	2.0	#10 M67 stars	2	
0092.COMP	30	5:19	8:52:16.6	11:42:29	600	42	2.0	#10 M67 stars	2	
0093.m67_5124	480	5:22	8:50:41.5	11:44:30	600	48	2.0	#10 M67 stars	2	
0094.COMP	30	5:31	8:50:41.5	11:44:30	600	48	2.0	#10 M67 stars	2	
0095.m67_6134	1200	5:48	8:51:46.4	11:46:26	600	50	2.0	#10 M67 stars	2	
0096.COMP	30	6:09	8:51:46.4	11:46:26	600	50	2.0	#10 M67 stars	2	
0097.m67_6293	480	6:11	8:51:58.5	11:46:52	600	57	2.0	#10 M67 stars	2	
0098.COMP	30	6:20	8:51:58.5	11:46:52	600	57	2.0	#10 M67 stars	2	
0099.m67_5741	1200	6:23	8:51:22.9	11:49:12	600	57	2.0	#10 M67 stars	2	
0100.COMP	30	6:44	8:51:22.9	11:49:12	600	57	2.0	#10 M67 stars	2	
0101.HD111951	3	6:50	12:47:49.2	23:08:10	600	-41	2.0	#10 M67 stars	2	
0102.COMP	30	6:50	12:47:49.2	23:08:10	600	-41	2.0	#10 M67 stars	2	
0103.HD106156	3	6:53	12:12:57.5	+10:02:15	600	3	2.0	#10 M67 stars	2	
0104.COMP	30	6:54	12:12:57.5	+10:02:15	600	3	2.0	#10 M67 stars	2	
0105.HD106156	11	6:55	12:12:57.5	+10:02:15	600	3	2.0	#10 M67 stars	2	
0106.COMP	30	6:55	12:12:57.5	+10:02:15	600	3	2.0	#10 M67 stars	2	
0107-0116.FLAT	45	7:06	12:12:57.5	+10:02:15	600	90	2.0	#10 M67 stars	2	
0117.Feige34	90	7:15	10:36:41.2	43:21:50	600	90	3.0	#10 M67 stars	2	600L, 3arcsec, tilt=732
0118.COMP	20	7:17	10:36:41.2	43:21:50	600	90	3.0	#10 M67 stars	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0119.VCC1036	900	7:21	12:27:41.3	12:18:57	600	90	3.0	#10 M67 stars	2	
0120.COMP	20	7:38	12:27:41.3	12:18:57	600	90	3.0	#10 M67 stars	2	
0121.VCC1125	900	7:40	12:28:43.4	11:45:21	600	90	3.0	#10 M67 stars	2	
0122.COMP	20	7:55	12:28:43.4	11:45:21	600	90	3.0	#10 M67 stars	2	
0123.VCC1475	900	7:56	12:33:04.9	16:15:56	600	90	3.0	#10 M67 stars	2	
0124.COMP	20	8:12	12:33:04.9	16:15:56	600	90	3.0	#10 M67 stars	2	
0125.VCC1537	900	8:13	12:34:06.1	11:19:17	600	90	3.0	#10 M67 stars	2	
0126.COMP	20	8:29	12:34:06.1	11:19:17	600	90	3.0	#10 M67 stars	2	
0127-0136.FLAT	30	8:39	12:34:06.1	11:19:17	600	90	3.0	#10 M67 stars	2	
0137.sn2002bo	1200	8:44	10:18:06.5	+21:49:41	300	66	3.0	#2 SN Observat	2	Normal setup
0138.COMP	12	9:05	10:18:06.5	+21:49:41	300	66	3.0	#2 SN Observat	2	
0139.sn2002bs	1200	9:07	13:18:30.3	-14:36:31	300	20	3.0	#2 SN Observat	2	
0140.COMP	12	9:28	13:18:30.3	-14:36:31	300	20	3.0	#2 SN Observat	2	
0141.BDp332642	120	9:31	15:50:03	33:05:49	300	87	3.0	#56 Spectropho	2	
0142.COMP	12	9:34	15:50:03	33:05:49	300	87	3.0	#56 Spectropho	2	
0143.comas_042	1200	9:36	13:05:16.0	25:57:27	300	90	3.0	#64f Cluster I	2	
0144.COMP	12	9:57	13:05:16.0	25:57:27	300	90	3.0	#64f Cluster I	2	
0145.comas_043	780	9:58	13:11:48.0	30:58:20	300	90	3.0	#64f Cluster I	2	
0146.COMP	12	10:11	13:11:48.0	30:58:20	300	90	3.0	#64f Cluster I	2	
0147.comas_044	420	10:12	13:11:59.2	20:47:37	300	90	3.0	#64f Cluster I	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>
0148.COMP	12	10:20	13:11:59.2	20:47:37	300	90	3.0	#64f Cluster I	2	
0149.comas_045	300	10:21	13:12:59.2	22:25:35	300	90	3.0	#64f Cluster I	2	
0150.COMP	12	10:27	13:12:59.2	22:25:35	300	90	3.0	#64f Cluster I	2	
0151.comas_046	540	10:28	13:12:59.5	27:08:29	300	90	3.0	#64f Cluster I	2	
0152.COMP	12	10:37	13:12:59.5	27:08:29	300	90	3.0	#64f Cluster I	2	
0153.comas_047	420	10:38	13:13:45.3	24:58:56	300	90	3.0	#64f Cluster I	2	
0154.COMP	12	10:46	13:13:45.3	24:58:56	300	90	3.0	#64f Cluster I	2	
0155.comas_048	600	10:47	13:14:26.9	21:17:50	300	90	3.0	#64f Cluster I	2	
0156.COMP	12	10:57	13:14:26.9	21:17:50	300	90	3.0	#64f Cluster I	2	
0157.comas_049	660	10:59	13:16:03.6	35:02:36	300	90	3.0	#64f Cluster I	2	
0158.COMP	12	11:10	13:16:03.6	35:02:36	300	90	3.0	#64f Cluster I	2	
0159.comas_050	360	11:11	13:16:41.9	21:58:46	300	90	3.0	#64f Cluster I	2	
0160.COMP	12	11:18	13:16:41.9	21:58:46	300	90	3.0	#64f Cluster I	2	
0161.comas_051	480	11:19	13:20:35.3	34:08:22	300	90	3.0	#64f Cluster I	2	
0162.COMP	12	11:28	13:20:35.3	34:08:22	300	90	3.0	#64f Cluster I	2	
0163.comas_052	300	11:29	13:24:56.2	26:27:48	300	90	3.0	#64f Cluster I	2	
0164.COMP	12	11:34	13:24:56.2	26:27:48	300	90	3.0	#64f Cluster I	2	
0165.comas_053	240	11:35	13:11:57.4	34:21:54	300	90	3.0	#64f Cluster I	2	
0166.COMP	12	11:40	13:11:57.4	34:21:54	300	90	3.0	#64f Cluster I	2	
0167.sb2002bw	1200	11:45	17:16:35.6	-10:20:31	300	-2	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0168.COMP	12	12:05	17:16:35.6	-10:20:31	300	-2	3.0	#2 SN Observat	2	
0169.XS0057B3_003	600	12:15	14:10:24.4	+52:09:28	300	90	3.0	#129 CHAMP Sou	2	will get again
0170.COMP	12	12:26	14:10:24.4	+52:09:28	300	90	3.0	#129 CHAMP Sou	2	
0171.BDp332642	120	12:27	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0172.COMP	12	12:30	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0173-0182.BIAS	0	12:38	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0183-0192.FLAT	6	12:41	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0193-0202.BIAS	0	12:44	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0203-0212.FLAT	12	12:48	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0213-0222.DARK	900	15:06	15:50:03	33:05:49	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
0001-0010.BIAS	0	1:32	07:00:36.0	31:30:31	300	90	3.0	#56 Spectropho	4	
0011.FLAT	8	1:32	07:01:07.0	31:30:31	300	90	3.0	#56 Spectropho	4	lots of thin clouds
0012-0020.FLAT	8	1:34	07:03:21.0	31:30:31	300	90	3.0	#56 Spectropho	4	
0021-0030.BIAS	0	1:37	07:05:49.0	31:30:32	300	90	3.0	#56 Spectropho	2	
0031-0037.FLAT	16	1:40	07:09:35.0	31:30:32	300	90	3.0	#56 Spectropho	2	
0038-0040.FLAT	16	1:42	07:11:02.0	31:30:33	300	90	3.0	#56 Spectropho	2	
0041-0045.sky	3	2:00	7:28:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0046.COMP	5	2:01	7:28:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0047.2MJ0602512m234127	180	2:41	06:02:51.2	-23:41:27	300	90	3.0	#68 2MASS Reds	4	
0048.COMP	5	2:45	06:02:51.2	-23:41:27	300	90	3.0	#68 2MASS Reds	4	
0049.2MJ0600048m263341	180	2:45	06:00:04.8	-26:33:41	300	90	3.0	#68 2MASS Reds	4	
0050.COMP	5	2:49	06:00:04.8	-26:33:41	300	90	3.0	#68 2MASS Reds	4	
0051.2MJ0609080m273032	240	2:49	06:09:08.0	-27:30:32	300	90	3.0	#68 2MASS Reds	4	
0052.COMP	5	2:53	06:09:08.0	-27:30:32	300	90	3.0	#68 2MASS Reds	4	
0053.2MJ0616040m123517	210	2:54	06:16:04.0	-12:35:17	300	90	3.0	#68 2MASS Reds	4	
0054.COMP	5	2:58	06:16:04.0	-12:35:17	300	90	3.0	#68 2MASS Reds	4	
0055.align	30	3:02	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	ccd has been out of alignment
0056.align	10	3:05	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	2	
0057.align	30	3:10	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0058.align	6	3:12	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0059.COMP	5	3:13	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0060.fastfoc	5	3:15	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	and so the lines have been tilted
0061.fastfoc	5	3:15	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0062.fastfoc	5	3:15	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0063.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0064.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0065.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0066.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0067.fastfoc	5	3:17	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0068.fastfoc	5	3:17	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0069.fastfoc	5	3:17	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0070.fastfoc	5	3:18	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0071.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0072.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0073.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0074.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0075.align	30	3:23	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0076.fastfoc	5	3:27	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	and it was a pain to align
0077.fastfoc	5	3:27	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0078.fastfoc	5	3:27	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0079.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0080.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0081.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0082.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0083.fastfoc	5	3:29	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0084.fastfoc	5	3:29	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0085.fastfoc	5	3:29	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0086.fastfoc	5	3:30	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0087.grrrr	5	3:32	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0088.grrrr	5	3:32	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	normally easy during the day...
0089.startest	30	3:34	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0090.doublegrrrr	30	3:35	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0091.doublegrrrr	30	3:39	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0092.align	20	3:44	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0093.align	20	3:47	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0094.align	20	3:50	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0095.align	20	3:53	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0096.align	30	3:56	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0097.align	30	4:01	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0098.align	30	4:04	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0099.align	45	4:09	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0100.ok	5	4:12	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0101.startest	90	4:13	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0102.2MJ0639535p793755	360	4:17	06:39:53.5	+79:37:55	300	90	3.0	#68 2MASS Reds	4	beautiful
0103.COMP	5	4:23	06:39:53.5	+79:37:55	300	90	3.0	#68 2MASS Reds	4	
0104.2MJ0836109m032602EW	480	4:27	08:36:10.9	-03:26:02	300	90	3.0	#68 2MASS Reds	2	E and W galaxies
0105.COMP	10	4:36	08:36:10.9	-03:26:02	300	90	3.0	#68 2MASS Reds	2	W @ row 81, E @ row 92
0106.2MJ0906340m071427	120	4:37	09:06:34.0	-07:14:27	300	90	3.0	#68 2MASS Reds	2	
0107.COMP	10	4:40	09:06:34.0	-07:14:27	300	90	3.0	#68 2MASS Reds	2	
0108.2MJ0931123m162116	600	4:42	09:31:12.3	-16:21:16	300	90	3.0	#68 2MASS Reds	2	
0109.COMP	10	4:52	09:31:12.3	-16:21:16	300	90	3.0	#68 2MASS Reds	2	
0110.2MJ0948554m255828	660	4:53	09:48:55.4	-25:58:28	300	90	3.0	#68 2MASS Reds	4	
0111.COMP	5	5:04	09:48:55.4	-25:58:28	300	90	3.0	#68 2MASS Reds	4	
0112.Feige34	150	5:07	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0113.Feige34	150	5:09	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0114.COMP	10	5:12	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0115.sn2002bo	1200	5:15	10:18:06.5	+21:49:41	300	40	3.0	#2 SN Observat	2	
0116.COMP	10	5:35	10:18:06.5	+21:49:41	300	40	3.0	#2 SN Observat	2	
0117.2MJ1031285p194222	240	5:37	10:31:28.5	+19:42:22	300	90	3.0	#68 2MASS Reds	4	
0118.COMP	5	5:41	10:31:28.5	+19:42:22	300	90	3.0	#68 2MASS Reds	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0119.2MJ1005260m174757	900	5:45	10:05:26.0	-17:47:57	300	90	3.0	#68 2MASS Reds	4	LSB
0120.COMP	5	6:00	10:05:26.0	-17:47:57	300	90	3.0	#68 2MASS Reds	4	
0121.2MJ1101165m133337	720	6:01	11:01:16.5	-13:33:37	300	90	3.0	#68 2MASS Reds	4	
0122.COMP	5	6:14	11:01:16.5	-13:33:37	300	90	3.0	#68 2MASS Reds	4	
0123.comas_054	1200	6:15	13:10:20.1	32:28:59	300	90	3.0	#64f Cluster I	4	
0124.COMP	5	6:37	13:10:20.1	32:28:59	300	90	3.0	#64f Cluster I	4	
0125.comas_055	1200	6:38	12:42:47.2	27:16:18	300	90	3.0	#64f Cluster I	4	
0126.COMP	5	6:58	12:42:47.2	27:16:18	300	90	3.0	#64f Cluster I	4	
0127.comas_057	720	6:59	12:32:43.0	29:42:44	300	90	3.0	#64f Cluster I	4	
0128.COMP	5	7:11	12:32:43.0	29:42:44	300	90	3.0	#64f Cluster I	4	
0129.comas_058	540	7:12	12:59:12.2	35:54:35	300	90	3.0	#64f Cluster I	4	
0130.COMP	5	7:22	12:59:12.2	35:54:35	300	90	3.0	#64f Cluster I	4	
0131.2MJ1150174p881218	1200	7:31	11:50:17.4	+88:12:18	300	90	3.0	#68 2MASS Reds	4	more clouds but looks ok
0132.COMP	5	7:51	11:50:17.4	+88:12:18	300	90	3.0	#68 2MASS Reds	4	tough to find this far north
0133.sn2002ca	1200	7:56	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0134.COMP	10	8:17	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0135.sn2002ca	1200	8:18	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0136.COMP	10	8:38	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0137.sn2002bz	1200	8:41	14:24:40.5	+26:37:34	300	90	3.0	#2 SN Observat	2	
0138.COMP	10	9:02	14:24:40.5	+26:37:34	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
0139.2MJ1348518m073000	1200	9:05	13:48:51.8	-07:30:00	300	45	3.0	#68 2MASS Reds	4	
0140.COMP	5	9:26	13:48:51.8	-07:30:00	300	45	3.0	#68 2MASS Reds	4	
0141.2MJ1405419m133558NS	600	9:28	14:05:41.9	-13:35:58	300	45	3.0	#68 2MASS Reds	2	NE and SW gals, plus star
0142.COMP	10	9:38	14:05:41.9	-13:35:58	300	45	3.0	#68 2MASS Reds	2	NE gal row 87, SW gal row 76, star 64
0143.2MJ1422570m061418	240	9:40	14:22:57.0	-06:14:18	300	90	3.0	#68 2MASS Reds	2	
0144.COMP	10	9:45	14:22:57.0	-06:14:18	300	90	3.0	#68 2MASS Reds	2	
0145.2MJ1437507m213643	240	9:45	14:37:50.7	-21:36:43	300	90	3.0	#68 2MASS Reds	4	
0146.COMP	5	9:50	14:37:50.7	-21:36:43	300	90	3.0	#68 2MASS Reds	4	
0147.2MJ1514247m212948	360	9:50	15:14:24.7	-21:29:48	300	90	3.0	#68 2MASS Reds	4	
0148.COMP	5	9:57	15:14:24.7	-21:29:48	300	90	3.0	#68 2MASS Reds	4	
0149.2MJ1521153m202026	240	9:58	15:21:15.3	-20:20:26	300	90	3.0	#68 2MASS Reds	4	
0150.COMP	5	10:02	15:21:15.3	-20:20:26	300	90	3.0	#68 2MASS Reds	4	more telescope runaways
0151.2MJ1521306m203126	240	10:03	15:21:30.6	-20:31:26	300	90	3.0	#68 2MASS Reds	4	
0152.COMP	5	10:07	15:21:30.6	-20:31:26	300	90	3.0	#68 2MASS Reds	4	
0153.2MJ1524289m230631	300	10:08	15:24:28.9	-23:06:31	300	90	3.0	#68 2MASS Reds	4	
0154.COMP	5	10:13	15:24:28.9	-23:06:31	300	90	3.0	#68 2MASS Reds	4	
0155.2MJ1525120m171438	360	10:14	15:25:12.0	-17:14:38	300	90	3.0	#68 2MASS Reds	2	
0156.COMP	10	10:21	15:25:12.0	-17:14:38	300	90	3.0	#68 2MASS Reds	2	
0157.2MJ1526534m200541	300	10:22	15:26:53.4	-20:05:41	300	90	3.0	#68 2MASS Reds	4	
0158.COMP	5	10:27	15:26:53.4	-20:05:41	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0159.2MJ1526556m234534	480	10:28	15:26:55.6	-23:45:34	300	90	3.0	#68 2MASS Reds	4	
0160.COMP	5	10:36	15:26:55.6	-23:45:34	300	90	3.0	#68 2MASS Reds	4	
0161.2MJ1528496m211224	240	10:37	15:28:49.6	-21:12:24	300	90	3.0	#68 2MASS Reds	4	
0162.COMP	5	10:41	15:28:49.6	-21:12:24	300	90	3.0	#68 2MASS Reds	4	
0163.2MJ1531106m211030	480	10:42	15:31:10.6	-21:10:30	300	90	3.0	#68 2MASS Reds	4	
0164.COMP	5	10:53	15:31:10.6	-21:10:30	300	90	3.0	#68 2MASS Reds	4	stopped by clouds
0165.BDp332642	60	11:05	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0166.BDp332642	120	11:07	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0167.BDp332642	120	11:09	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0168.COMP	10	11:11	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0169.N5866	180	11:15	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0170.COMP	5	11:18	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0171.1h1426p428	900	11:29	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	stopped by clouds
0172.COMP	5	11:44	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	
0173-0182.BIAS	0	11:57	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	
0183-0192.FLAT	8	12:00	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	
0193-0202.BIAS	0	12:03	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	2	
0203-0212.FLAT	16	12:07	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	2	
0213-0222.DARK	900	14:25	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001.DARK	1200	22:13	04:05:17.0	31:30:06	300	95	3.0	#133 MRK421	2	
0002.DARK	1200	22:33	04:25:32.0	31:30:08	300	95	3.0	#133 MRK421	2	
0003.DARK	1200	22:53	04:45:48.0	31:30:10	300	95	3.0	#133 MRK421	2	
0004.DARK	1200	23:13	05:06:07.0	31:30:13	300	95	3.0	#133 MRK421	2	
0005.DARK	1200	23:34	05:26:22.0	31:30:16	300	95	3.0	#133 MRK421	2	
0006.DARK	1200	23:54	05:46:38.0	31:30:19	300	95	3.0	#133 MRK421	2	
0007.DARK	1200	0:14	06:06:53.0	31:30:22	300	95	3.0	#133 MRK421	2	
0008.DARK	1200	0:34	06:27:09.0	31:30:26	300	95	3.0	#133 MRK421	2	
0009-0020.BIAS	0	1:22	06:54:47.0	31:30:30	300	95	3.0	#133 MRK421	4	
0021.FLAT	8	1:22	06:55:34.0	31:30:30	300	95	3.0	#133 MRK421	4	heavy cirrus
0022-0030.FLAT	8	1:25	06:57:49.0	31:30:30	300	95	3.0	#133 MRK421	4	
0031-0040.BIAS	0	1:27	07:00:20.0	31:30:31	300	95	3.0	#133 MRK421	2	
0041-0044.FLAT	16	1:30	07:03:36.0	31:30:31	300	95	3.0	#133 MRK421	2	
0045-0050.FLAT	16	1:33	07:06:29.0	31:30:32	300	95	3.0	#133 MRK421	2	
0051-0055.sky	3	2:02	7:30:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:02	7:30:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.2MJ0658461p594639	300	2:38	06:58:46.1	+59:46:39	300	90	3.0	#68 2MASS Reds	4	
0058.COMP	5	2:44	06:58:46.1	+59:46:39	300	90	3.0	#68 2MASS Reds	4	
0059.2MJ0634022p585141	1020	2:45	06:34:02.2	+58:51:41	300	90	3.0	#68 2MASS Reds	4	
0060.COMP	5	3:03	06:34:02.2	+58:51:41	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0061.2MJ0615022p874251	1020	3:05	06:15:02.2	+87:42:51	300	90	3.0	#68 2MASS Reds	4	
0062.COMP	5	3:22	06:15:02.2	+87:42:51	300	90	3.0	#68 2MASS Reds	4	
0063.2MJ0648149p870218	480	3:24	06:48:14.9	+87:02:18	300	90	3.0	#68 2MASS Reds	4	
0064.COMP	5	3:32	06:48:14.9	+87:02:18	300	90	3.0	#68 2MASS Reds	4	
0065.2MJ0813063m160634	150	3:36	08:13:06.3	-16:06:34	300	90	3.0	#68 2MASS Reds	4	
0066.COMP	5	3:39	08:13:06.3	-16:06:34	300	90	3.0	#68 2MASS Reds	4	
0067.2MJ0818006m161359	300	3:39	08:18:00.6	-16:13:59	300	90	3.0	#68 2MASS Reds	4	
0068.COMP	5	3:45	08:18:00.6	-16:13:59	300	90	3.0	#68 2MASS Reds	4	clearing nicely
0069.2MJ0826192m205052	300	3:45	08:26:19.2	-20:50:52	300	90	3.0	#68 2MASS Reds	4	
0070.COMP	5	3:51	08:26:19.2	-20:50:52	300	90	3.0	#68 2MASS Reds	4	
0071.sn2002bx	1200	3:53	09:19:54.9	+37:12:08	300	90	3.0	#2 SN Observat	2	
0072.COMP	10	4:13	09:19:54.9	+37:12:08	300	90	3.0	#2 SN Observat	2	
0073.2MJ0844266m251548	300	4:15	08:44:26.6	-25:15:48	300	90	3.0	#68 2MASS Reds	4	
0074.COMP	5	4:20	08:44:26.6	-25:15:48	300	90	3.0	#68 2MASS Reds	4	
0075.2MJ0846363m252116	240	4:21	08:46:36.3	-25:21:16	300	90	3.0	#68 2MASS Reds	4	
0076.COMP	5	4:25	08:46:36.3	-25:21:16	300	90	3.0	#68 2MASS Reds	4	
0077.2MJ0851546m264235	240	4:26	08:51:54.6	-26:42:35	300	90	3.0	#68 2MASS Reds	4	
0078.COMP	5	4:30	08:51:54.6	-26:42:35	300	90	3.0	#68 2MASS Reds	4	
0079.2MJ0853274m261800	480	4:31	08:53:27.4	-26:18:00	300	90	3.0	#68 2MASS Reds	4	
0080.COMP	5	4:40	08:53:27.4	-26:18:00	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0081.2MJ0855439m263840	360	4:41	08:55:43.9	-26:38:40	300	90	3.0	#68 2MASS Reds	4	
0082.COMP	5	4:47	08:55:43.9	-26:38:40	300	90	3.0	#68 2MASS Reds	4	
0083.2MJ0856577m275640	270	4:48	08:56:57.7	-27:56:40	300	90	3.0	#68 2MASS Reds	4	
0084.COMP	5	4:53	08:56:57.7	-27:56:40	300	90	3.0	#68 2MASS Reds	4	
0085.2MJ0953144m155840	180	4:53	09:53:14.4	-15:58:40	300	90	3.0	#68 2MASS Reds	4	
0086.COMP	5	4:57	09:53:14.4	-15:58:40	300	90	3.0	#68 2MASS Reds	4	
0087.2MJ0955381m153000	300	4:57	09:55:38.1	-15:30:00	300	90	3.0	#68 2MASS Reds	4	
0088.COMP	5	5:03	09:55:38.1	-15:30:00	300	90	3.0	#68 2MASS Reds	4	
0089.Feige34	120	5:05	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0090.Feige34	120	5:07	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0091.COMP	10	5:10	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0092.sn2002bo	1200	5:11	10:18:06.5	+21:49:41	300	37	3.0	#2 SN Observat	2	
0093.COMP	10	5:32	10:18:06.5	+21:49:41	300	37	3.0	#2 SN Observat	2	
0094.2MJ0956030m271101	720	5:34	09:56:03.0	-27:11:01	300	90	3.0	#68 2MASS Reds	4	
0095.COMP	5	5:46	09:56:03.0	-27:11:01	300	90	3.0	#68 2MASS Reds	4	
0096.2MJ1004241m252247	360	5:47	10:04:24.1	-25:22:47	300	90	3.0	#68 2MASS Reds	4	
0097.COMP	5	5:53	10:04:24.1	-25:22:47	300	90	3.0	#68 2MASS Reds	4	
0098.XS00512B7_038	1200	5:55	10:56:50.1	-03:33:42	300	90	3.0	#129 CHAMP Sou	4	
0099.COMP	5	6:15	10:56:50.1	-03:33:42	300	90	3.0	#129 CHAMP Sou	4	
0100.XS00512B7_008	1200	6:16	10:56:48.9	-03:37:25	300	90	3.0	#129 CHAMP Sou	4	

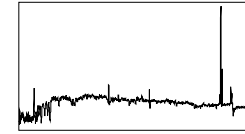
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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0101.COMP	5	6:37	10:56:48.9	-03:37:25	300	90	3.0	#129 CHAMP Sou	4	
0102.XS00363B8_006	1200	6:39	11:18:47.0	+07:54:19	300	90	3.0	#129 CHAMP Sou	4	
0103.COMP	5	6:59	11:18:47.0	+07:54:19	300	90	3.0	#129 CHAMP Sou	4	
0104.XS00363B7_021	900	7:00	11:18:09.9	+07:46:54	300	90	3.0	#129 CHAMP Sou	4	
0105.COMP	5	7:15	11:18:09.9	+07:46:54	300	90	3.0	#129 CHAMP Sou	4	
0106.XS00363B6_005	210	7:16	11:18:02.4	+07:43:25	300	90	3.0	#129 CHAMP Sou	4	
0107.COMP	5	7:20	11:18:02.4	+07:43:25	300	90	3.0	#129 CHAMP Sou	4	
0108.2MJ1231225m144031EW	480	7:21	12:31:22.5	-14:40:31	300	73	3.0	#68 2MASS Reds	2	E (bright) and W gals
0109.COMP	10	7:30	12:31:22.5	-14:40:31	300	73	3.0	#68 2MASS Reds	2	E gal @ row 91, W @ row 82
0110.2MJ1315008m131616	240	7:32	13:15:00.8	-13:16:16	300	90	3.0	#68 2MASS Reds	4	
0111.COMP	5	7:36	13:15:00.8	-13:16:16	300	90	3.0	#68 2MASS Reds	4	
0112.2MJ1317453m241910	270	7:37	13:17:45.3	-24:19:10	300	90	3.0	#68 2MASS Reds	4	
0113.COMP	5	7:42	13:17:45.3	-24:19:10	300	90	3.0	#68 2MASS Reds	4	
0114.2MJ1315393p420538	300	7:45	13:15:39.3	+42:05:38	300	90	3.0	#68 2MASS Reds	4	
0115.COMP	5	7:50	13:15:39.3	+42:05:38	300	90	3.0	#68 2MASS Reds	4	
0116.2MJ1319587p424100	300	7:51	13:19:58.7	+42:41:00	300	90	3.0	#68 2MASS Reds	4	
0117.COMP	5	7:56	13:19:58.7	+42:41:00	300	90	3.0	#68 2MASS Reds	4	
0118.MRK421	300	7:58	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	4	
0119.MRK421	300	8:03	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	4	
0120.COMP	5	8:08	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0121.N4051	150	8:09	12:03:09.7	+44:31:53	300	100	3.0	#6 AGN Monitor	4	
0122.N4051	150	8:12	12:03:09.7	+44:31:53	300	100	3.0	#6 AGN Monitor	4	
0123.COMP	5	8:15	12:03:09.7	+44:31:53	300	100	3.0	#6 AGN Monitor	4	
0124.N4151	30	8:15	12:10:32.6	+39:24:21	300	100	3.0	#6 AGN Monitor	4	
0125.N4151	30	8:16	12:10:32.6	+39:24:21	300	100	3.0	#6 AGN Monitor	4	
0126.COMP	5	8:17	12:10:32.6	+39:24:21	300	100	3.0	#6 AGN Monitor	4	
0127.sn2002bz	1200	8:18	14:24:40.5	+26:37:34	300	90	3.0	#2 SN Observat	2	
0128.COMP	10	8:39	14:24:40.5	+26:37:34	300	90	3.0	#2 SN Observat	2	
0129.N5548	180	8:39	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0130.N5548	180	8:43	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0131.COMP	10	8:46	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0132.BDp332642	60	8:49	15:50:03	33:05:49	300	92	3.0	#56 Spectropho	2	clouds...
0133.BDp332642	120	8:51	15:50:03	33:05:49	300	92	3.0	#56 Spectropho	2	
0134.COMP	10	8:53	15:50:03	33:05:49	300	92	3.0	#56 Spectropho	2	
0135-0144.FLAT	8	8:56	15:50:03	33:05:49	300	92	3.0	#56 Spectropho	4	
0145-0154.FLAT	16	9:01	15:50:03	33:05:49	300	92	3.0	#56 Spectropho	2	
0155.BIAS	0	9:02	15:50:03	33:05:49	300	92	3.0	#56 Spectropho	2	
0156.COMP	10	9:05	15:50:03	33:05:49	600	90	2.0	#56 Spectropho	2	600-line, 2-sec slit, tilt=430
0157.HD107132	5	9:07	12:19:01.4	24:50:46	600	90	2.0	#122 Halo Star	4	
0158.HD107132	15	9:07	12:19:01.4	24:50:46	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
0159.HD107132	15	9:08	12:19:01.4	24:50:46	600	90	2.0	#122 Halo Star	4	
0160.HD107132	15	9:08	12:19:01.4	24:50:46	600	90	2.0	#122 Halo Star	4	
0161.COMP	10	9:09	12:19:01.4	24:50:46	600	90	2.0	#122 Halo Star	4	
0162.HD107214	15	9:10	12:19:28.3	24:17:03	600	90	2.0	#122 Halo Star	4	
0163.HD107214	15	9:10	12:19:28.3	24:17:03	600	90	2.0	#122 Halo Star	4	
0164.HD107214	15	9:11	12:19:28.3	24:17:03	600	90	2.0	#122 Halo Star	4	
0165.COMP	10	9:11	12:19:28.3	24:17:03	600	90	2.0	#122 Halo Star	4	
0166.HD107399	20	9:12	12:20:45.5	25:45:57	600	90	2.0	#122 Halo Star	4	
0167.HD107399	20	9:13	12:20:45.5	25:45:57	600	90	2.0	#122 Halo Star	4	
0168.HD107399	20	9:13	12:20:45.5	25:45:57	600	90	2.0	#122 Halo Star	4	
0169.COMP	10	9:14	12:20:45.5	25:45:57	600	90	2.0	#122 Halo Star	4	
0170.HD107966	5	9:15	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0171.HD107966	3	9:15	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0172.HD107966	3	9:15	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0173.HD107966	3	9:15	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0174.COMP	10	9:16	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0175.HD107966	2	9:17	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0176.HD107966	2	9:18	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0177.HD107966	2	9:18	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0178.HD107966	2	9:18	12:24:18.5	26:05:55	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
0179.COMP	10	9:18	12:24:18.5	26:05:55	600	90	2.0	#122 Halo Star	4	
0180.BS16026d68	90	9:19	12:36:39.7	27:28:28	600	90	2.0	#122 Halo Star	4	
0181.BS16026d68	180	9:21	12:36:39.7	27:28:28	600	90	2.0	#122 Halo Star	4	
0182.BS16026d68	180	9:24	12:36:39.7	27:28:28	600	90	2.0	#122 Halo Star	4	
0183.COMP	10	9:27	12:36:39.7	27:28:28	600	90	2.0	#122 Halo Star	4	
0184.HD111395	5	9:28	12:48:47.0	24:50:24	600	90	2.0	#122 Halo Star	4	
0185.HD111395	5	9:28	12:48:47.0	24:50:24	600	90	2.0	#122 Halo Star	4	
0186.HD111395	5	9:29	12:48:47.0	24:50:24	600	90	2.0	#122 Halo Star	4	
0187.COMP	10	9:29	12:48:47.0	24:50:24	600	90	2.0	#122 Halo Star	4	
0188.HD111525	20	9:30	12:49:33.2	42:03:10	600	90	2.0	#122 Halo Star	4	
0189.HD111525	20	9:31	12:49:33.2	42:03:10	600	90	2.0	#122 Halo Star	4	
0190.HD111525	20	9:31	12:49:33.2	42:03:10	600	90	2.0	#122 Halo Star	4	
0191.COMP	10	9:32	12:49:33.2	42:03:10	600	90	2.0	#122 Halo Star	4	
0192.HD112299	20	9:33	12:55:28.2	25:44:17	600	90	2.0	#122 Halo Star	4	
0193.HD112299	20	9:33	12:55:28.2	25:44:17	600	90	2.0	#122 Halo Star	4	
0194.HD112299	20	9:34	12:55:28.2	25:44:17	600	90	2.0	#122 Halo Star	4	
0195.COMP	10	9:34	12:55:28.2	25:44:17	600	90	2.0	#122 Halo Star	4	
0196.BS16027d22	180	9:35	13:06:27.4	28:16:02	600	90	2.0	#122 Halo Star	4	
0197.BS16027d22	180	9:39	13:06:27.4	28:16:02	600	90	2.0	#122 Halo Star	4	
0198.BS16027d22	180	9:42	13:06:27.4	28:16:02	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
0199.COMP	10	9:45	13:06:27.4	28:16:02	600	90	2.0	#122 Halo Star	4	
0200.HD114710	2	9:46	13:11:52.3	27:52:41	600	90	2.0	#122 Halo Star	4	
0201.HD114710	1	9:46	13:11:52.3	27:52:41	600	90	2.0	#122 Halo Star	4	
0202.HD114710	1	9:47	13:11:52.3	27:52:41	600	90	2.0	#122 Halo Star	4	
0203.HD114710	1	9:47	13:11:52.3	27:52:41	600	90	2.0	#122 Halo Star	4	
0204.COMP	10	9:47	13:11:52.3	27:52:41	600	90	2.0	#122 Halo Star	4	
0205.HD115404	3	9:48	13:16:51.0	17:01:01	600	90	2.0	#122 Halo Star	4	
0206.HD115404	5	9:48	13:16:51.0	17:01:01	600	90	2.0	#122 Halo Star	4	
0207.HD115404	5	9:49	13:16:51.0	17:01:01	600	90	2.0	#122 Halo Star	4	
0208.HD115404	5	9:49	13:16:51.0	17:01:01	600	90	2.0	#122 Halo Star	4	
0209.COMP	10	9:49	13:16:51.0	17:01:01	600	90	2.0	#122 Halo Star	4	
0210.HD122563	5	9:50	14:02:31.8	9:41:09	600	90	2.0	#122 Halo Star	4	
0211.HD122563	5	9:51	14:02:31.8	9:41:09	600	90	2.0	#122 Halo Star	4	
0212.HD122563	5	9:51	14:02:31.8	9:41:09	600	90	2.0	#122 Halo Star	4	
0213.COMP	10	9:51	14:02:31.8	9:41:09	600	90	2.0	#122 Halo Star	4	
0214.HD126053	5	9:52	14:23:15.2	1:14:29	600	90	2.0	#122 Halo Star	4	
0215.HD126053	5	9:53	14:23:15.2	1:14:29	600	90	2.0	#122 Halo Star	4	
0216.HD126053	5	9:53	14:23:15.2	1:14:29	600	90	2.0	#122 Halo Star	4	
0217.COMP	10	9:53	14:23:15.2	1:14:29	600	90	2.0	#122 Halo Star	4	
0218.BDp332642	120	9:54	15:50:03	33:05:49	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
0219.BDp332642	120	9:57	15:50:03	33:05:49	600	90	2.0	#122 Halo Star	4	
0220.BDp332642	120	9:59	15:50:03	33:05:49	600	90	2.0	#122 Halo Star	4	
0221.COMP	10	10:01	15:50:03	33:05:49	600	90	2.0	#122 Halo Star	4	
0222.HD128165	10	10:02	14:33:28.8	52:54:31	600	90	2.0	#122 Halo Star	4	clouds increasing
0223.HD128165	10	10:03	14:33:28.8	52:54:31	600	90	2.0	#122 Halo Star	4	
0224.HD128165	10	10:03	14:33:28.8	52:54:31	600	90	2.0	#122 Halo Star	4	
0225.COMP	5	10:03	14:33:28.8	52:54:31	600	90	2.0	#122 Halo Star	4	
0226.HD124320	20	10:04	14:11:57.3	38:49:52	600	90	2.0	#122 Halo Star	4	
0227.HD124320	20	10:05	14:11:57.3	38:49:52	600	90	2.0	#122 Halo Star	4	
0228.HD124320	20	10:05	14:11:57.3	38:49:52	600	90	2.0	#122 Halo Star	4	
0229.COMP	10	10:06	14:11:57.3	38:49:52	600	90	2.0	#122 Halo Star	4	
0230.HD116608	30	10:07	13:23:57.0	43:35:55	600	90	2.0	#122 Halo Star	4	
0231.HD116608	30	10:08	13:23:57.0	43:35:55	600	90	2.0	#122 Halo Star	4	
0232.HD116608	30	10:08	13:23:57.0	43:35:55	600	90	2.0	#122 Halo Star	4	
0233.COMP	10	10:09	13:23:57.0	43:35:55	600	90	2.0	#122 Halo Star	4	
0234.HD122693	15	10:10	14:02:52.0	24:33:41	600	90	2.0	#122 Halo Star	4	
0235.HD122693	15	10:11	14:02:52.0	24:33:41	600	90	2.0	#122 Halo Star	4	
0236.HD122693	15	10:11	14:02:52.0	24:33:41	600	90	2.0	#122 Halo Star	4	
0237.COMP	10	10:12	14:02:52.0	24:33:41	600	90	2.0	#122 Halo Star	4	
0238.HD128167	2	10:14	14:34:40.8	29:44:42	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
0239.HD128167	1	10:14	14:34:40.8	29:44:42	600	90	2.0	#122 Halo Star	4	
0240.HD128167	1	10:14	14:34:40.8	29:44:42	600	90	2.0	#122 Halo Star	4	
0241.HD128167	1	10:15	14:34:40.8	29:44:42	600	90	2.0	#122 Halo Star	4	
0242.COMP	10	10:15	14:34:40.8	29:44:42	600	90	2.0	#122 Halo Star	4	
0243.HD130948	5	10:16	14:50:15.8	23:54:42	600	90	2.0	#122 Halo Star	4	
0244.HD130948	5	10:16	14:50:15.8	23:54:42	600	90	2.0	#122 Halo Star	4	
0245.HD130948	5	10:16	14:50:15.8	23:54:42	600	90	2.0	#122 Halo Star	4	
0246.COMP	10	10:17	14:50:15.8	23:54:42	600	90	2.0	#122 Halo Star	4	
0247.HD136202	3	10:18	15:19:18.8	1:45:55	600	90	2.0	#122 Halo Star	4	
0248.HD136202	2	10:18	15:19:18.8	1:45:55	600	90	2.0	#122 Halo Star	4	
0249.HD136202	2	10:18	15:19:18.8	1:45:55	600	90	2.0	#122 Halo Star	4	
0250.HD136202	2	10:18	15:19:18.8	1:45:55	600	90	2.0	#122 Halo Star	4	
0251.COMP	10	10:19	15:19:18.8	1:45:55	600	90	2.0	#122 Halo Star	4	
0252.HD148816	10	10:20	16:30:28.4	4:10:41	600	90	2.0	#122 Halo Star	4	
0253.HD148816	10	10:20	16:30:28.4	4:10:41	600	90	2.0	#122 Halo Star	4	
0254.HD148816	10	10:20	16:30:28.4	4:10:41	600	90	2.0	#122 Halo Star	4	
0255.COMP	10	10:21	16:30:28.4	4:10:41	600	90	2.0	#122 Halo Star	4	
0256.HD154417	5	10:22	17:05:16.8	0:42:09	600	90	2.0	#122 Halo Star	4	
0257.HD154417	5	10:22	17:05:16.8	0:42:09	600	90	2.0	#122 Halo Star	4	
0258.HD154417	5	10:22	17:05:16.8	0:42:09	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
0259.COMP	10	10:23	17:05:16.8	0:42:09	600	90	2.0	#122 Halo Star	4	
0260.HD139323	10	10:24	15:35:56.5	39:49:52	600	90	2.0	#122 Halo Star	4	
0261.HD139323	10	10:25	15:35:56.5	39:49:52	600	90	2.0	#122 Halo Star	4	
0262.HD139323	10	10:25	15:35:56.5	39:49:52	600	90	2.0	#122 Halo Star	4	
0263.COMP	10	10:26	15:35:56.5	39:49:52	600	90	2.0	#122 Halo Star	4	
0264.HD144579	6	10:27	16:04:56.7	39:09:23	600	90	2.0	#122 Halo Star	4	
0265.HD144579	6	10:29	16:04:56.7	39:09:23	600	90	2.0	#122 Halo Star	4	
0266.HD144579	6	10:30	16:04:56.7	39:09:23	600	90	2.0	#122 Halo Star	4	
0267.COMP	10	10:30	16:04:56.7	39:09:23	600	90	2.0	#122 Halo Star	4	
0268.HD149803	10	10:31	16:35:54.2	29:44:43	600	90	2.0	#122 Halo Star	4	
0269.HD149803	15	10:32	16:35:54.2	29:44:43	600	90	2.0	#122 Halo Star	4	
0270.HD149803	15	10:33	16:35:54.2	29:44:43	600	90	2.0	#122 Halo Star	4	
0271.COMP	10	10:34	16:35:54.2	29:44:43	600	90	2.0	#122 Halo Star	4	
0272.HD154345	20	10:37	17:02:36.4	47:04:54	600	90	2.0	#122 Halo Star	4	
0273.HD154345	10	10:38	17:02:36.4	47:04:54	600	90	2.0	#122 Halo Star	4	
0274.HD154345	10	10:38	17:02:36.4	47:04:54	600	90	2.0	#122 Halo Star	4	
0275.HD154345	10	10:39	17:02:36.4	47:04:54	600	90	2.0	#122 Halo Star	4	
0276.COMP	10	10:39	17:02:36.4	47:04:54	600	90	2.0	#122 Halo Star	4	
0277.HD159222	10	10:40	17:32:00.9	34:16:16	600	90	2.0	#122 Halo Star	4	
0278.HD159222	7	10:41	17:32:00.9	34:16:16	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
0279.HD159222	7	10:41	17:32:00.9	34:16:16	600	90	2.0	#122 Halo Star	4	
0280.HD159222	7	10:42	17:32:00.9	34:16:16	600	90	2.0	#122 Halo Star	4	
0281.COMP	10	10:42	17:32:00.9	34:16:16	600	90	2.0	#122 Halo Star	4	
0282.HD164922	7	10:44	18:02:30.8	26:18:46	600	90	2.0	#122 Halo Star	4	
0283.HD164922	8	10:45	18:02:30.8	26:18:46	600	90	2.0	#122 Halo Star	4	clearing
0284.HD164922	8	10:46	18:02:30.8	26:18:46	600	90	2.0	#122 Halo Star	4	
0285.COMP	10	10:47	18:02:30.8	26:18:46	600	90	2.0	#122 Halo Star	4	
0286.HD168009	6	10:48	18:15:32.4	45:12:33	600	90	2.0	#122 Halo Star	4	
0287.HD168009	6	10:48	18:15:32.4	45:12:33	600	90	2.0	#122 Halo Star	4	
0288.HD168009	6	10:48	18:15:32.4	45:12:33	600	90	2.0	#122 Halo Star	4	
0289.COMP	10	10:49	18:15:32.4	45:12:33	600	90	2.0	#122 Halo Star	4	
0290.hs899	1200	10:56	13:30:12.1	29:06:01	600	90	2.0	#122 Halo Star	4	
0291.COMP	10	11:17	13:30:12.1	29:06:01	600	90	2.0	#122 Halo Star	4	
0292.hs898	1200	11:18	13:26:30.0	29:17:29	600	90	2.0	#122 Halo Star	4	
0293.COMP	10	11:38	13:26:30.0	29:17:29	600	90	2.0	#122 Halo Star	4	
0294.HD182488	6	11:41	19:23:34.0	33:13:19	600	90	2.0	#122 Halo Star	4	
0295.HD182488	6	11:41	19:23:34.0	33:13:19	600	90	2.0	#122 Halo Star	4	
0296.HD182488	6	11:42	19:23:34.0	33:13:19	600	90	2.0	#122 Halo Star	4	
0297.COMP	10	11:42	19:23:34.0	33:13:19	600	90	2.0	#122 Halo Star	4	
0298.HD184171	1	11:43	19:31:46.3	34:27:10	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
0299.HD184171	1	11:43	19:31:46.3	34:27:10	600	90	2.0	#122 Halo Star	4	
0300.HD184171	1	11:43	19:31:46.3	34:27:10	600	90	2.0	#122 Halo Star	4	
0301.HD184171	1	11:44	19:31:46.3	34:27:10	600	90	2.0	#122 Halo Star	4	
0302.HD184171	1	11:44	19:31:46.3	34:27:10	600	90	2.0	#122 Halo Star	4	
0303.COMP	10	11:44	19:31:46.3	34:27:10	600	90	2.0	#122 Halo Star	4	
0304.HD192281	10	11:46	20:10:46.8	40:07:01	600	90	2.0	#122 Halo Star	4	
0305.HD192281	10	11:46	20:10:46.8	40:07:01	600	90	2.0	#122 Halo Star	4	
0306.HD192281	10	11:46	20:10:46.8	40:07:01	600	90	2.0	#122 Halo Star	4	
0307.COMP	10	11:47	20:10:46.8	40:07:01	600	90	2.0	#122 Halo Star	4	
0308.BDp404032	120	11:47	20:06:40	41:06:15	600	90	2.0	#122 Halo Star	4	
0309.BDp404032	120	11:50	20:06:40	41:06:15	600	90	2.0	#122 Halo Star	4	
0310.COMP	10	11:52	20:06:40	41:06:15	600	90	2.0	#122 Halo Star	4	clouds moving in again
0311-0325.FLAT	40	12:04	20:06:40	41:06:15	600	90	2.0	#122 Halo Star	4	
0326-0335.BIAS	0	12:07	20:06:40	41:06:15	600	90	2.0	#122 Halo Star	4	
0336-0340.BIAS	0	12:08	20:06:40	41:06:15	600	90	2.0	#122 Halo Star	2	
0341-0350.DARK	900	14:39	20:06:40	41:06:15	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
0001-0010.DARK	1200	0:07	20:06:40	41:06:15	600	90	2.0	#122 Halo Star	2	
0011-0020.BIAS	0	0:46	20:06:40	41:06:15	300	90	3.0	#57 Velocity S	4	
0021.FLAT	8	0:47	20:06:40	41:06:15	300	90	3.0	#57 Velocity S	4	lots of clouds
0022-0030.FLAT	8	0:49	20:06:40	41:06:15	300	90	3.0	#57 Velocity S	4	
0031-0040.BIAS	0	0:51	20:06:40	41:06:15	300	90	3.0	#57 Velocity S	2	
0041-0050.FLAT	16	0:56	20:06:40	41:06:15	300	90	3.0	#57 Velocity S	2	
0051-0055.sky	3	2:03	7:30:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:04	7:30:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.Hiltner600	90	2:35	06:42:37.2	02:11:25	300	32	3.0	#56 Spectropho	2	clearing...
0058.Hiltner600	90	2:37	06:42:37.2	02:11:25	300	32	3.0	#56 Spectropho	2	
0059.COMP	10	2:39	06:42:37.2	02:11:25	300	32	3.0	#56 Spectropho	2	
0060.Akn120	240	2:40	05:13:38.0	-00:12:15	300	50	3.0	#6 AGN Monitor	4	
0061.COMP	5	2:45	05:13:38.0	-00:12:15	300	50	3.0	#6 AGN Monitor	4	
0062.2MJ0625341m201126	300	2:47	06:25:34.1	-20:11:26	300	90	3.0	#68 2MASS Reds	4	local clouds forming
0063.COMP	5	2:52	06:25:34.1	-20:11:26	300	90	3.0	#68 2MASS Reds	4	
0064.2MJ0627142m243930	300	2:53	06:27:14.2	-24:39:30	300	90	3.0	#68 2MASS Reds	4	stopped by clouds
0065.COMP	5	2:59	06:27:14.2	-24:39:30	300	90	3.0	#68 2MASS Reds	4	
0066.BGGem	420	3:19	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0067.BGGem	1200	3:26	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0068.COMP	10	3:46	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0069.BIAS	0	3:50	9:40:00	32:00:00	600	90	2.0	#100 BGGem	4	600-line, 2-sec slit, tilt=430
0070.HD065900	4	3:51	8:01:13.8	4:52:47	600	90	2.0	#122 Halo Star	4	
0071.HD065900	2	3:51	8:01:13.8	4:52:47	600	90	2.0	#122 Halo Star	4	
0072.HD065900	2	3:51	8:01:13.8	4:52:47	600	90	2.0	#122 Halo Star	4	
0073.HD065900	2	3:52	8:01:13.8	4:52:47	600	90	2.0	#122 Halo Star	4	
0074.COMP	10	3:52	8:01:13.8	4:52:47	600	90	2.0	#122 Halo Star	4	
0075.HD066171	10	3:54	8:08:10.5	71:55:28	600	90	2.0	#122 Halo Star	4	
0076.HD066171	10	3:54	8:08:10.5	71:55:28	600	90	2.0	#122 Halo Star	4	
0077.HD066171	10	3:55	8:08:10.5	71:55:28	600	90	2.0	#122 Halo Star	4	
0078.COMP	10	3:55	8:08:10.5	71:55:28	600	90	2.0	#122 Halo Star	4	
0079.m67_5191	900	3:57	8:50:47.6	11:44:51	600	90	2.0	#10 M67 stars	2	
0080.COMP	20	4:14	8:50:47.6	11:44:51	600	90	2.0	#10 M67 stars	2	
0081.m67_5624	900	4:15	8:51:17.9	11:45:54	600	35	2.0	#10 M67 stars	2	
0082.COMP	20	4:30	8:51:17.9	11:45:54	600	35	2.0	#10 M67 stars	2	akkkk stopped by fog
0083.HD079210W	10	6:11	9:14:22.7	52:41:11	600	90	2.0	#122 Halo Star	4	clearing later...
0084.HD079210W	15	6:12	9:14:22.7	52:41:11	600	90	2.0	#122 Halo Star	4	
0085.HD079210W	15	6:12	9:14:22.7	52:41:11	600	90	2.0	#122 Halo Star	4	
0086.HD079210W	15	6:12	9:14:22.7	52:41:11	600	90	2.0	#122 Halo Star	4	
0087.HD079210E	15	6:13	9:14:22.7	52:41:11	600	90	2.0	#122 Halo Star	4	
0088.HD079210E	15	6:13	9:14:22.7	52:41:11	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
0089.HD079210E	15	6:14	9:14:22.7	52:41:11	600	90	2.0	#122 Halo Star	4	
0090.COMP	10	6:14	9:14:22.7	52:41:11	600	90	2.0	#122 Halo Star	4	
0091.Feige34	180	6:16	10:36:41.2	43:21:50	600	100	2.0	#56 Spectropho	2	
0092.Feige34	180	6:20	10:36:41.2	43:21:50	600	100	2.0	#56 Spectropho	2	
0093.COMP	20	6:24	10:36:41.2	43:21:50	600	100	2.0	#56 Spectropho	2	
0094-0103.FLAT	40	6:34	12:15:00	32:00:00	600	100	2.0	#56 Spectropho	4	
0104-0113.FLAT	70	6:47	12:15:00	32:00:00	600	100	2.0	#56 Spectropho	2	
0114.BIAS	0	6:51	12:15:00	32:00:00	300	100	3.0	#56 Spectropho	2	300-line, 3-sec slit
0115.Feige34	150	6:52	10:36:41.2	43:21:50	300	100	3.0	#56 Spectropho	2	
0116.Feige34	150	6:56	10:36:41.2	43:21:50	300	100	3.0	#56 Spectropho	2	
0117.COMP	10	6:59	10:36:41.2	43:21:50	300	100	3.0	#56 Spectropho	2	
0118.sn2002bo	1200	7:02	10:18:06.5	+21:49:41	300	65	3.0	#2 SN Observat	2	
0119.COMP	10	7:23	10:18:06.5	+21:49:41	300	65	3.0	#2 SN Observat	2	
0120.N3227	180	7:24	10:23:30.6	+19:51:54	300	65	3.0	#6 AGN Monitor	4	
0121.N3227	180	7:27	10:23:30.6	+19:51:54	300	65	3.0	#6 AGN Monitor	4	
0122.COMP	5	7:30	10:23:30.6	+19:51:54	300	65	3.0	#6 AGN Monitor	4	
0123.sn2002bs	1200	7:33	13:18:30.3	-14:36:31	300	0	3.0	#2 SN Observat	2	
0124.COMP	10	7:53	13:18:30.3	-14:36:31	300	0	3.0	#2 SN Observat	2	
0125.comas_060	420	7:56	12:41:36.3	23:25:30	300	0	3.0	#64f Cluster I	4	
0126.COMP	5	8:04	12:41:36.3	23:25:30	300	0	3.0	#64f Cluster I	4	

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0127.comas_061	420	8:04	12:41:51.4	23:30:37	300	90	3.0	#64f Cluster I	4	
0128.COMP	5	8:12	12:41:51.4	23:30:37	300	90	3.0	#64f Cluster I	4	
0129.comas_059	330	8:12	13:12:10.8	22:25:15	300	90	3.0	#64f Cluster I	4	
0130.COMP	5	8:18	13:12:10.8	22:25:15	300	90	3.0	#64f Cluster I	4	
0131.comas_064	360	8:19	13:16:16.8	25:24:19	300	90	3.0	#64f Cluster I	4	
0132.COMP	5	8:25	13:16:16.8	25:24:19	300	90	3.0	#64f Cluster I	4	
0133.comas_063	270	8:26	13:15:03.5	24:37:08	300	90	3.0	#64f Cluster I	4	
0134.COMP	5	8:30	13:15:03.5	24:37:08	300	90	3.0	#64f Cluster I	4	
0135.comas_062	330	8:31	13:22:02.7	25:29:07	300	90	3.0	#64f Cluster I	4	
0136.COMP	5	8:37	13:22:02.7	25:29:07	300	90	3.0	#64f Cluster I	4	
0137.comas_056	330	8:37	13:34:54.1	26:12:22	300	90	3.0	#64f Cluster I	4	
0138.COMP	5	8:43	13:34:54.1	26:12:22	300	90	3.0	#64f Cluster I	4	
0139.sn2002bz	1200	8:45	14:24:40.5	+26:37:34	300	90	3.0	#2 SN Observat	2	
0140.COMP	10	9:06	14:24:40.5	+26:37:34	300	90	3.0	#2 SN Observat	2	
0141.2MJ1329486m180212	1200	9:07	13:29:48.6	-18:02:12	300	90	3.0	#68 2MASS Reds	4	
0142.COMP	5	9:28	13:29:48.6	-18:02:12	300	90	3.0	#68 2MASS Reds	4	
0143.2MJ1332474m233119	420	9:28	13:32:47.4	-23:31:19	300	90	3.0	#68 2MASS Reds	4	
0144.COMP	5	9:36	13:32:47.4	-23:31:19	300	90	3.0	#68 2MASS Reds	4	
0145.2MJ1404403m142656	720	9:37	14:04:40.3	-14:26:56	300	90	3.0	#68 2MASS Reds	4	
0146.COMP	5	9:49	14:04:40.3	-14:26:56	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0147.2MJ1410557p191021	720	9:51	14:10:55.7	+19:10:21	300	90	3.0	#68 2MASS Reds	4	
0148.COMP	5	10:03	14:10:55.7	+19:10:21	300	90	3.0	#68 2MASS Reds	4	
0149.2MJ1424040p074539	300	10:04	14:24:04.0	+07:45:39	300	90	3.0	#68 2MASS Reds	4	
0150.COMP	5	10:09	14:24:04.0	+07:45:39	300	90	3.0	#68 2MASS Reds	4	
0151.BDp332642	60	10:10	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0152.BDp332642	60	10:11	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0153.COMP	10	10:13	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0154.2MJ1533374m025758	900	10:14	15:33:37.4	-02:57:58	300	90	3.0	#68 2MASS Reds	4	
0155.COMP	5	10:30	15:33:37.4	-02:57:58	300	90	3.0	#68 2MASS Reds	4	
0156.2MJ1531502m214140	210	10:31	15:31:50.2	-21:41:40	300	90	3.0	#68 2MASS Reds	4	
0157.COMP	5	10:34	15:31:50.2	-21:41:40	300	90	3.0	#68 2MASS Reds	4	
0158.2MJ1532046m211907	210	10:35	15:32:04.6	-21:19:07	300	90	3.0	#68 2MASS Reds	4	
0159.COMP	5	10:39	15:32:04.6	-21:19:07	300	90	3.0	#68 2MASS Reds	4	
0160.2MJ1533504m241921	240	10:39	15:33:50.4	-24:19:21	300	90	3.0	#68 2MASS Reds	4	
0161.COMP	5	10:44	15:33:50.4	-24:19:21	300	90	3.0	#68 2MASS Reds	4	
0162.2MJ1534139m211153	210	10:45	15:34:13.9	-21:11:53	300	90	3.0	#68 2MASS Reds	4	
0163.COMP	5	10:48	15:34:13.9	-21:11:53	300	90	3.0	#68 2MASS Reds	4	
0164.2MJ1539383m235634	300	10:49	15:39:38.3	-23:56:34	300	90	3.0	#68 2MASS Reds	4	
0165.COMP	5	10:54	15:39:38.3	-23:56:34	300	90	3.0	#68 2MASS Reds	4	
0166.2MJ1534005m155517	270	10:55	15:34:00.5	-15:55:17	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0167.COMP	5	11:00	15:34:00.5	-15:55:17	300	90	3.0	#68 2MASS Reds	4	
0168.2MJ1534408m150419	210	11:01	15:34:40.8	-15:04:19	300	90	3.0	#68 2MASS Reds	4	
0169.COMP	5	11:05	15:34:40.8	-15:04:19	300	90	3.0	#68 2MASS Reds	4	
0170.2MJ1539328m113426	240	11:06	15:39:32.8	-11:34:26	300	90	3.0	#68 2MASS Reds	4	
0171.COMP	5	11:10	15:39:32.8	-11:34:26	300	90	3.0	#68 2MASS Reds	4	
0172.2MJ1543106m123426	240	11:10	15:43:10.6	-12:34:26	300	90	3.0	#68 2MASS Reds	4	
0173.COMP	5	11:15	15:43:10.6	-12:34:26	300	90	3.0	#68 2MASS Reds	4	
0174.2MJ1543233m123240	240	11:15	15:43:23.3	-12:32:40	300	90	3.0	#68 2MASS Reds	4	
0175.COMP	5	11:20	15:43:23.3	-12:32:40	300	90	3.0	#68 2MASS Reds	4	
0176.2MJ1544036m204716	240	11:21	15:44:03.6	-20:47:16	300	90	3.0	#68 2MASS Reds	4	
0177.COMP	5	11:25	15:44:03.6	-20:47:16	300	90	3.0	#68 2MASS Reds	4	
0178.2MJ1544113m063106	1200	11:26	15:44:11.3	-06:31:06	300	90	3.0	#68 2MASS Reds	4	em
0179.COMP	5	11:47	15:44:11.3	-06:31:06	300	90	3.0	#68 2MASS Reds	4	
0180.N5846	180	11:49	15:03:56.9	+01:47:53	300	90	3.0	#57 Velocity S	4	
0181.COMP	5	11:52	15:03:56.9	+01:47:53	300	90	3.0	#57 Velocity S	4	
0182.N5866	180	11:54	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	more fog @ twilight
0183.COMP	5	11:58	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0184-0193.BIAS	0	12:01	15:05:07.2	+55:57:18	300	90	3.0	#68 2MASS Reds	4	
0194-0203.FLAT	8	12:04	15:05:07.2	+55:57:18	300	90	3.0	#68 2MASS Reds	4	
0204-0213.BIAS	0	12:06	15:05:07.2	+55:57:18	300	90	3.0	#68 2MASS Reds	2	

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0214-0223.FLAT	16	12:11	15:05:07.2	+55:57:18	300	90	3.0	#68 2MASS Reds	2	
0224-0233.DARK	900	14:41	15:05:07.2	+55:57:18	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	22:35	15:05:07.2	+55:57:18	300	90	3.0	#68 2MASS Reds	4	
0011-0020.DARK	900	1:08	15:05:07.2	+55:57:18	300	90	3.0	#68 2MASS Reds	2	
0021-0024.BIAS	0	2:01	07:41:49.0	31:30:37	300	90	3.0	#68 2MASS Reds	4	
0025-0030.BIAS	0	2:02	07:42:32.0	31:30:38	300	90	3.0	#68 2MASS Reds	4	
0031-0040.FLAT	6	2:04	07:44:51.0	31:30:38	300	90	3.0	#68 2MASS Reds	4	
0041-0050.BIAS	0	2:06	07:47:19.0	31:30:38	300	90	3.0	#68 2MASS Reds	2	
0051-0060.FLAT	12	2:11	07:51:52.0	31:30:39	300	90	3.0	#68 2MASS Reds	2	
0061.Hiltner600	60	3:08	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0062.Hiltner600	60	3:09	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0063.COMP	12	3:11	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0064.Hiltner600	90	3:12	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0065.Hiltner600	90	3:13	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0066.COMP	5	3:15	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0067.BG Gem	300	3:27	6:03:31	27:41:50	300	90	3.0	#100 BG Gem	2	
0068.COMP	12	3:33	6:03:31	27:41:50	300	90	3.0	#100 BG Gem	2	
0069.BG Gem	1200	3:34	6:03:31	27:41:50	300	90	3.0	#100 BG Gem	2	
0070.COMP	12	3:54	6:03:31	27:41:50	300	90	3.0	#100 BG Gem	2	
0071.sn2002bx	1200	3:58	09:19:54.9	+37:12:08	300	-34	3.0	#2 SN Observat	2	
0072.COMP	12	4:18	09:19:54.9	+37:12:08	300	-34	3.0	#2 SN Observat	2	
0073.Feige34	120	4:21	10:36:41.2	43:21:50	300	37	3.0	#56 Spectropho	2	



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0074.COMP	12	4:23	10:36:41.2	43:21:50	300	37	3.0	#56 Spectropho	2	
0075.sn2002bo	1200	4:27	10:18:06.5	+21:49:41	300	-24	3.0	#2 SN Observat	2	
0076.COMP	12	4:47	10:18:06.5	+21:49:41	300	-24	3.0	#2 SN Observat	2	
0077.FLAT	45	4:54	10:18:06.5	+21:49:41	600	90	2.0	#10 M67 stars	2	600L, 2arcsec, tilt=430
0078-0086.FLAT	45	5:03	10:18:06.5	+21:49:41	600	90	2.0	#10 M67 stars	2	
0087.Feige34	120	5:07	10:36:41.2	43:21:50	600	-8	2.0	#10 M67 stars	2	
0088.COMP	20	5:10	10:36:41.2	43:21:50	600	-8	2.0	#10 M67 stars	2	
0089.m67_5833	900	5:19	8:51:28.1	11:49:27	600	50	2.0	#10 M67 stars	2	
0090.COMP	20	5:35	8:51:28.1	11:49:27	600	50	2.0	#10 M67 stars	2	
0091.m67_6313	900	5:37	8:51:59.6	11:52:57	600	54	2.0	#10 M67 stars	2	
0092.COMP	20	5:52	8:51:59.6	11:52:57	600	54	2.0	#10 M67 stars	2	
0093.HD87141	3	5:57	10:01:17.7	+54:08:04	600	-44	2.0	#10 M67 stars	2	
0094.COMP	20	5:57	10:01:17.7	+54:08:04	600	-44	2.0	#10 M67 stars	2	
0095.HD87141	2	5:58	10:01:17.7	+54:08:04	600	-44	2.0	#10 M67 stars	2	
0096.COMP	20	5:59	10:01:17.7	+54:08:04	600	-44	2.0	#10 M67 stars	2	
0097.m67_5688	900	6:03	8:51:20.5	11:46:16	600	56	2.0	#10 M67 stars	2	
0098.COMP	20	6:19	8:51:20.5	11:46:16	600	56	2.0	#10 M67 stars	2	
0099.HD102212	1	6:24	11:43:17.3	06:48:34	600	8	2.0	#10 M67 stars	2	
0100.COMP	20	6:25	11:43:17.3	06:48:34	600	8	2.0	#10 M67 stars	2	
0101.HD102212	0	6:26	11:43:17.3	06:48:34	600	8	2.0	#10 M67 stars	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0102.COMP	20	6:26	11:43:17.3	06:48:34	600	8	2.0	#10 M67 stars	2	
0103.HD88986	2	6:29	10:16:28.1	+28:40:57	600	75	2.0	#10 M67 stars	2	
0104.COMP	20	6:30	10:16:28.1	+28:40:57	600	75	2.0	#10 M67 stars	2	
0105.FLAT	30	6:33	10:16:28.1	+28:40:57	600	90	3.0	#10 M67 stars	2	600L, 3arcsec, tilt=732
0106-0114.FLAT	30	6:39	10:16:28.1	+28:40:57	600	90	3.0	#10 M67 stars	2	
0115.VCC165	900	6:45	12:15:53.3	13:12:57	600	90	3.0	#10 M67 stars	2	
0116.COMP	20	7:00	12:15:53.3	13:12:57	600	90	3.0	#10 M67 stars	2	
0117.N4648	900	7:02	12:41:44.4	74:25:16	600	90	3.0	#10 M67 stars	2	
0118.COMP	20	7:18	12:41:44.4	74:25:16	600	90	3.0	#10 M67 stars	2	
0119.N5500	900	7:19	14:10:15.2	48:32:46	600	90	3.0	#10 M67 stars	2	
0120.COMP	20	7:35	14:10:15.2	48:32:46	600	90	3.0	#10 M67 stars	2	
0121.A15572p48	900	7:36	15:58:40.2	48:40:57	600	90	3.0	#10 M67 stars	2	
0122.COMP	20	7:52	15:58:40.2	48:40:57	600	90	3.0	#10 M67 stars	2	
0123.BDp332642	90	7:53	15:50:03	33:05:49	600	90	3.0	#56 Spectropho	2	
0124.COMP	20	7:55	15:50:03	33:05:49	600	90	3.0	#56 Spectropho	2	
0125.MRK421	300	7:59	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	normal setup
0126.MRK421	300	8:04	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0127.MRK421	300	8:09	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0128.COMP	12	8:15	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0129.1h1426p428	900	8:17	14:28:32.6	42:40:21	300	90	3.0	#133 MRK421	2	

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0130.COMP	12	8:33	14:28:32.6	42:40:21	300	90	3.0	#133 MRK421	2	
0131.SNngc5054	1200	8:38	13:16:58	-16:37:58	300	90	3.0	#2 SN Observat	2	not an sne!
0132.COMP	12	8:58	13:16:58	-16:37:58	300	90	3.0	#2 SN Observat	2	
0133.SNmcp8m24m24	1200	9:13	13:04:23.9	47:35:53	300	110	3.0	#2 SN Observat	2	
0134.COMP	12	9:34	13:04:23.9	47:35:53	300	110	3.0	#2 SN Observat	2	
0135.sn2002bz	1200	9:36	14:24:40.5	+26:37:34	300	64	3.0	#2 SN Observat	2	
0136.COMP	12	9:57	14:24:40.5	+26:37:34	300	64	3.0	#2 SN Observat	2	
0137.BDp332642	120	9:58	15:50:03	33:05:49	300	63	3.0	#56 Spectropho	2	
0138.COMP	12	10:01	15:50:03	33:05:49	300	63	3.0	#56 Spectropho	2	
0139.FSVSJ163220	1200	10:05	16:32:20.7	21:08:34	300	90	3.0	#131 FSVS	2	
0140.COMP	12	10:26	16:32:20.7	21:08:34	300	90	3.0	#131 FSVS	2	
0141.FSVSJ163150	1200	10:27	16:31:50.8	21:24:25	300	90	3.0	#131 FSVS	2	
0142.COMP	12	10:48	16:31:50.8	21:24:25	300	90	3.0	#131 FSVS	2	
0143.FSVSJ172224	1200	10:51	17:22:24.7	27:13:02	300	90	3.0	#131 FSVS	2	
0144.COMP	12	11:11	17:22:24.7	27:13:02	300	90	3.0	#131 FSVS	2	
0145.FSVSJ172544	1200	11:13	17:25:44.1	27:24:45	300	90	3.0	#131 FSVS	2	
0146.COMP	12	11:33	17:25:44.1	27:24:45	300	90	3.0	#131 FSVS	2	
0147.FSVSJ172800	1200	11:36	17:28:00.1	27:18:06	300	90	3.0	#131 FSVS	2	
0148.COMP	12	11:56	17:28:00.1	27:18:06	300	90	3.0	#131 FSVS	2	
0149.FSVSJ172719	1200	11:57	17:27:19.9	27:33:24	300	90	3.0	#131 FSVS	2	

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0150.COMP	12	12:18	17:27:19.9	27:33:24	300	90	3.0	#131 FSVS	2	
0151.BDp332642	120	12:19	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0152.COMP	12	12:22	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0153-0157.sky	2	12:41	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0158.COMP	5	12:42	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0159-0168.BIAS	0	12:44	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0169-0178.FLAT	6	12:46	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0179-0188.BIAS	0	12:49	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0189-0198.FLAT	12	12:54	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0199-0208.DARK	900	15:12	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	

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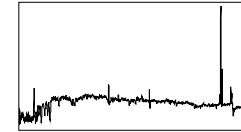
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	1:51	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0011-0020.BIAS	0	2:09	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0021-0030.FLAT	6	2:12	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0031-0040.BIAS	0	2:15	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0041-0050.FLAT	12	2:19	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0051.Hiltner600	50	2:34	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0052.Hiltner600	50	2:35	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0053.COMP	5	2:36	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0054.Hiltner600	50	2:37	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0055.Hiltner600	50	2:38	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0056.COMP	12	2:40	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0057.Hiltner600	50	2:41	06:42:37.2	02:11:25	300	35	3.0	#56 Spectropho	2	
0058.Hiltner600	50	2:42	06:42:37.2	02:11:25	300	35	3.0	#56 Spectropho	2	
0059.COMP	12	2:45	06:42:37.2	02:11:25	300	35	3.0	#56 Spectropho	2	
0060.vso21360	720	2:50	05:00:58.7	00:42:18	300	90	3.0	#112 Orion PMS	2	
0061.COMP	12	3:03	05:00:58.7	00:42:18	300	90	3.0	#112 Orion PMS	2	
0062.vso24391	900	3:04	05:04:55.5	00:20:18	300	90	3.0	#112 Orion PMS	2	
0063.COMP	12	3:20	05:04:55.5	00:20:18	300	90	3.0	#112 Orion PMS	2	
0064.vso24723	960	3:21	05:05:21.4	00:41:23	300	90	3.0	#112 Orion PMS	2	
0065.COMP	12	3:37	05:05:21.4	00:41:23	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
0066.vso25318	960	3:39	05:06:05.5	00:39:08	300	90	3.0	#112 Orion PMS	2	
0067.COMP	12	3:55	05:06:05.5	00:39:08	300	90	3.0	#112 Orion PMS	2	
0068.BGGem	300	4:06	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0069.COMP	12	4:12	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0070.BGGem	1200	4:13	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0071.COMP	12	4:33	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0072.sn2002bo	1200	4:38	10:18:06.5	+21:49:41	300	3	3.0	#2 SN Observat	2	
0073.COMP	12	4:58	10:18:06.5	+21:49:41	300	3	3.0	#2 SN Observat	2	
0074.FLAT	120	5:34	10:18:06.5	+21:49:41	1200	1000	2.0	#132 FGS Refer	2	1200L, 2arcsec, tilt=167
0075-0083.FLAT	120	5:54	10:18:06.5	+21:49:41	1200	1000	2.0	#132 FGS Refer	2	
0084.AMCVN	1200	5:58	12:34:54.5	+37:37:43	1200	1000	2.0	#132 HSTFGS Re	2	row=113
0085.COMP	90	6:18	12:34:54.5	+37:37:43	1200	1000	2.0	#132 HSTFGS Re	2	clouds passing through
0086.Feige34	300	6:21	10:36:41.2	43:21:50	1200	1000	2.0	#56 Spectropho	2	
0087.COMP	90	6:27	10:36:41.2	43:21:50	1200	1000	2.0	#56 Spectropho	2	
0088.AMREF-1	1200	6:30	12:34:42.9	+37:36:28	1200	1000	2.0	#132 HSTFGS Re	2	
0089.AMREF-1	1200	6:50	12:34:42.9	+37:36:28	1200	1000	2.0	#132 HSTFGS Re	2	clearing
0090.COMP	90	7:11	12:34:42.9	+37:36:28	1200	1000	2.0	#132 HSTFGS Re	2	
0091.AMREF-2	900	7:13	12:34:58.3	+37:33:52	1200	1000	2.0	#132 HSTFGS Re	2	
0092.AMREF-2	900	7:28	12:34:58.3	+37:33:52	1200	1000	2.0	#132 HSTFGS Re	2	
0093.COMP	90	7:44	12:34:58.3	+37:33:52	1200	1000	2.0	#132 HSTFGS Re	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0094.sn2002bs	1200	7:58	13:18:30.3	-14:36:31	300	6	3.0	#2 SN Observat	2	normal setup
0095.COMP	12	8:19	13:18:30.3	-14:36:31	300	6	3.0	#2 SN Observat	2	
0096.sn2002bz	1200	8:22	14:24:40.5	+26:37:34	300	-33	3.0	#2 SN Observat	2	row=74
0097.COMP	12	8:43	14:24:40.5	+26:37:34	300	-33	3.0	#2 SN Observat	2	
0098.BDp332642	90	8:47	15:50:03	33:05:49	300	91	3.0	#56 Spectropho	2	
0099.COMP	12	8:49	15:50:03	33:05:49	300	91	3.0	#56 Spectropho	2	
0100.a2199s_001	780	8:53	16:12:12.8	38:54:23	300	91	3.0	#64 Cluster In	2	
0101.COMP	12	9:07	16:12:12.8	38:54:23	300	91	3.0	#64 Cluster In	2	
0102.a2199s_002	480	9:08	16:18:12.3	41:28:29	300	91	3.0	#64 Cluster In	2	
0103.COMP	12	9:17	16:18:12.3	41:28:29	300	91	3.0	#64 Cluster In	2	
0104.a2199s_003	780	9:18	16:02:42.5	41:11:50	300	91	3.0	#64 Cluster In	2	
0105.COMP	12	9:31	16:02:42.5	41:11:50	300	91	3.0	#64 Cluster In	2	
0106.a2199s_004	720	9:33	16:02:44.7	41:11:59	300	91	3.0	#64 Cluster In	2	
0107.COMP	12	9:45	16:02:44.7	41:11:59	300	91	3.0	#64 Cluster In	2	
0108.a2199s_005	480	9:46	16:03:01.3	39:38:43	300	91	3.0	#64 Cluster In	2	
0109.COMP	12	9:54	16:03:01.3	39:38:43	300	91	3.0	#64 Cluster In	2	
0110.a2199s_006	210	9:55	16:03:52.1	39:59:03	300	91	3.0	#64 Cluster In	2	
0111.COMP	12	9:59	16:03:52.1	39:59:03	300	91	3.0	#64 Cluster In	2	
0112.a2199s_008	780	10:02	16:05:46.9	41:19:05	300	91	3.0	#64 Cluster In	2	
0113.COMP	12	10:16	16:05:46.9	41:19:05	300	91	3.0	#64 Cluster In	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0114.a2199s_009	780	10:17	16:07:17.6	41:24:13	300	91	3.0	#64 Cluster In	2	
0115.COMP	12	10:30	16:07:17.6	41:24:13	300	91	3.0	#64 Cluster In	2	
0116.a2199s_010	660	10:31	16:07:34.2	36:29:02	300	91	3.0	#64 Cluster In	2	
0117.COMP	12	10:43	16:07:34.2	36:29:02	300	91	3.0	#64 Cluster In	2	
0118.a2199s_011	420	10:44	16:07:47.9	39:11:40	300	91	3.0	#64 Cluster In	2	
0119.COMP	12	10:51	16:07:47.9	39:11:40	300	91	3.0	#64 Cluster In	2	
0120.a2199s_012	840	10:52	16:09:00.6	35:47:37	300	91	3.0	#64 Cluster In	2	
0121.COMP	12	11:07	16:09:00.6	35:47:37	300	91	3.0	#64 Cluster In	2	
0122.a2199s_013	480	11:08	16:09:48.3	42:20:02	300	91	3.0	#64 Cluster In	2	
0123.COMP	12	11:17	16:09:48.3	42:20:02	300	91	3.0	#64 Cluster In	2	
0124.2MJ1544400m240056	210	11:20	15:44:40.0	-24:00:56	300	91	3.0	#68 2MASS Reds	2	get again
0125.COMP	12	11:25	15:44:40.0	-24:00:56	300	91	3.0	#68 2MASS Reds	2	
0126.2MJ1544400m240056	360	11:26	15:44:40.0	-24:00:56	300	91	3.0	#68 2MASS Reds	2	
0127.COMP	12	11:32	15:44:40.0	-24:00:56	300	91	3.0	#68 2MASS Reds	2	
0128.XTE1751	1200	11:44	17:51:16.1	-30:38:00	300	-5	3.0	#65 X-Ray Nova	2	
0129.COMP	12	12:04	17:51:16.1	-30:38:00	300	-5	3.0	#65 X-Ray Nova	2	
0130.XTE1751	600	12:05	17:51:16.1	-30:38:00	300	-5	3.0	#65 X-Ray Nova	2	
0131.COMP	12	12:16	17:51:16.1	-30:38:00	300	-5	3.0	#65 X-Ray Nova	2	
0132.BDp332642	120	12:19	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0133.COMP	12	12:22	15:50:03	33:05:49	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>
0134-0138.sky	2	12:53	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0139.COMP	12	12:53	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0140-0149.BIAS	0	12:55	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0150-0159.FLAT	6	12:59	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0160-0169.BIAS	0	13:04	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0170-0179.FLAT	12	13:10	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0180-0189.DARK	900	15:28	15:50:03	33:05:49	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.DARK	900	1:01	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0011-0020.BIAS	0	1:18	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0021-0030.FLAT	6	1:20	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0031-0040.BIAS	0	1:23	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0041-0050.FLAT	12	1:27	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0051-0055.sky	2	2:12	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:12	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	clouds overhead
0057.Hiltner600	90	2:49	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0058.COMP	5	2:50	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0059.Hiltner600	120	2:51	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0060.COMP	12	2:54	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0061.Hiltner600	180	2:55	06:42:37.2	02:11:25	300	39	3.0	#56 Spectropho	2	
0062.COMP	12	2:59	06:42:37.2	02:11:25	300	39	3.0	#56 Spectropho	2	
0063.BGGem	600	3:09	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0064.COMP	12	3:20	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0065.BGGem	1200	3:20	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0066.BGGem	1200	3:41	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0067.COMP	12	4:01	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0068.sn2002cc	1200	4:10	08:34:01.9	+55:39:12	300	-39	3.0	#2 SN Observat	2	
0069.sn2002cc	1200	4:34	08:34:01.9	+55:39:12	300	-39	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0070.COMP	12	4:55	08:34:01.9	+55:39:12	300	-39	3.0	#2 SN Observat	2	
0071.sn02ccHost	1200	4:58	08:34:01.9	+55:39:12	300	90	3.0	#2 SN Observat	2	
0072.COMP	12	5:19	08:34:01.9	+55:39:12	300	90	3.0	#2 SN Observat	2	
0073.sn02ccHost	1200	5:24	08:34:01.9	+55:39:12	300	90	3.0	#2 SN Observat	2	
0074.COMP	12	5:44	08:34:01.9	+55:39:12	300	90	3.0	#2 SN Observat	2	
0075.sn2002bo	1200	6:17	10:18:06.5	+21:49:41	300	61	3.0	#2 SN Observat	2	clearing out
0076.COMP	12	6:38	10:18:06.5	+21:49:41	300	61	3.0	#2 SN Observat	2	
0077.MRK421	300	6:39	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0078.MRK421	300	6:44	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0079.MRK421	300	6:49	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0080.COMP	12	6:55	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0081.2MJ1100059p154628	240	6:57	11:00:05.9	+15:46:28	300	90	3.0	#68 2MASS Reds	2	get again for counts
0082.COMP	12	7:01	11:00:05.9	+15:46:28	300	90	3.0	#68 2MASS Reds	2	
0083.2MJ1100059p154628	480	7:02	11:00:05.9	+15:46:28	300	90	3.0	#68 2MASS Reds	2	
0084.COMP	12	7:10	11:00:05.9	+15:46:28	300	90	3.0	#68 2MASS Reds	2	
0085.2MJ1100112p093533	300	7:11	11:00:11.2	+09:35:33	300	90	3.0	#68 2MASS Reds	2	
0086.COMP	12	7:17	11:00:11.2	+09:35:33	300	90	3.0	#68 2MASS Reds	2	
0087.2MJ1100183p072132	540	7:18	11:00:18.3	+07:21:32	300	90	3.0	#68 2MASS Reds	2	
0088.COMP	12	7:28	11:00:18.3	+07:21:32	300	90	3.0	#68 2MASS Reds	2	
0089.2MJ1100202p073514	540	7:29	11:00:20.2	+07:35:14	300	90	3.0	#68 2MASS Reds	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0090.COMP	12	7:38	11:00:20.2	+07:35:14	300	90	3.0	#68 2MASS Reds	2	
0091.2MJ1100234p164428	480	7:40	11:00:23.4	+16:44:28	300	90	3.0	#68 2MASS Reds	2	
0092.COMP	12	7:48	11:00:23.4	+16:44:28	300	90	3.0	#68 2MASS Reds	2	
0093.2MJ1101022p184448	420	7:49	11:01:02.2	+18:44:48	300	90	3.0	#68 2MASS Reds	2	
0094.COMP	12	7:57	11:01:02.2	+18:44:48	300	90	3.0	#68 2MASS Reds	2	
0095.2MJ1101182p091712	270	7:58	11:01:18.2	+09:17:12	300	90	3.0	#68 2MASS Reds	2	
0096.COMP	12	8:03	11:01:18.2	+09:17:12	300	90	3.0	#68 2MASS Reds	2	
0097.2MJ1101223p091826	600	8:05	11:01:22.3	+09:18:26	300	90	3.0	#68 2MASS Reds	2	
0098.COMP	12	8:15	11:01:22.3	+09:18:26	300	90	3.0	#68 2MASS Reds	2	
0099.2MJ1101306p120748	360	8:16	11:01:30.6	+12:07:48	300	90	3.0	#68 2MASS Reds	2	
0100.COMP	12	8:23	11:01:30.6	+12:07:48	300	90	3.0	#68 2MASS Reds	2	
0101.2MJ1101420p054428	480	8:24	11:01:42.0	+05:44:28	300	90	3.0	#68 2MASS Reds	2	
0102.COMP	12	8:32	11:01:42.0	+05:44:28	300	90	3.0	#68 2MASS Reds	2	
0103.2MJ1544204m112610	360	8:34	15:44:20.4	-11:26:10	300	90	3.0	#68 2MASS Reds	2	
0104.COMP	12	8:41	15:44:20.4	-11:26:10	300	90	3.0	#68 2MASS Reds	2	
0105.2MJ1553345m091722	480	8:43	15:53:34.5	-09:17:22	300	75	3.0	#68 2MASS Reds	2	
0106.COMP	12	8:51	15:53:34.5	-09:17:22	300	75	3.0	#68 2MASS Reds	2	
0107.2MJ1554273m075112	420	8:52	15:54:27.3	-07:51:12	300	90	3.0	#68 2MASS Reds	2	
0108.COMP	12	9:00	15:54:27.3	-07:51:12	300	90	3.0	#68 2MASS Reds	2	
0109.2MJ1556575m090105	480	9:01	15:56:57.5	-09:01:05	300	90	3.0	#68 2MASS Reds	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0110.COMP	12	9:09	15:56:57.5	-09:01:05	300	90	3.0	#68 2MASS Reds	2	
0111.XS0057B3_003	1200	9:11	14:10:24.4	+52:09:28	300	90	3.0	#129 CHAMP Sou	2	
0112.COMP	12	9:32	14:10:24.4	+52:09:28	300	90	3.0	#129 CHAMP Sou	2	
0113.XS00541B1_013	1020	9:34	14:17:01.3	+44:39:30	300	96	3.0	#129 CHAMP Sou	2	
0114.COMP	12	9:52	14:17:01.3	+44:39:30	300	96	3.0	#129 CHAMP Sou	2	
0115.a2199s_014	660	9:54	16:09:55.4	43:07:44	300	90	3.0	#64 Cluster In	2	
0116.COMP	12	10:06	16:09:55.4	43:07:44	300	90	3.0	#64 Cluster In	2	
0117.a2199s_015	240	10:08	16:10:20.4	41:51:17	300	90	3.0	#64 Cluster In	2	
0118.COMP	12	10:12	16:10:20.4	41:51:17	300	90	3.0	#64 Cluster In	2	
0119.a2199s_016	270	10:14	16:10:43.7	41:08:55	300	90	3.0	#64 Cluster In	2	
0120.COMP	12	10:19	16:10:43.7	41:08:55	300	90	3.0	#64 Cluster In	2	
0121.a2199s_017	240	10:19	16:10:52.1	41:53:09	300	90	3.0	#64 Cluster In	2	
0122.COMP	12	10:24	16:10:52.1	41:53:09	300	90	3.0	#64 Cluster In	2	
0123.a2199s_018	270	10:25	16:10:56.8	35:59:10	300	90	3.0	#64 Cluster In	2	
0124.COMP	12	10:30	16:10:56.8	35:59:10	300	90	3.0	#64 Cluster In	2	
0125.a2199s_019	360	10:31	16:11:12.5	35:56:21	300	90	3.0	#64 Cluster In	2	
0126.COMP	12	10:37	16:11:12.5	35:56:21	300	90	3.0	#64 Cluster In	2	
0127.a2199s_020	270	10:38	16:13:49.2	38:09:06	300	90	3.0	#64 Cluster In	2	
0128.COMP	12	10:43	16:13:49.2	38:09:06	300	90	3.0	#64 Cluster In	2	
0129.a2199s_022	300	10:45	16:15:47.9	36:31:38	300	90	3.0	#64 Cluster In	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0130.COMP	12	10:50	16:15:47.9	36:31:38	300	90	3.0	#64 Cluster In	2	
0131.a2199s_023	240	10:51	16:15:52.6	36:59:50	300	90	3.0	#64 Cluster In	2	
0132.COMP	12	10:56	16:15:52.6	36:59:50	300	90	3.0	#64 Cluster In	2	
0133.FSVSJ172719	1200	11:00	17:27:19.9	27:33:24	300	90	3.0	#131 FSVS	2	
0134.COMP	12	11:22	17:27:19.9	27:33:24	300	90	3.0	#131 FSVS	2	
0135.FSVSJ172651	900	11:24	17:26:51.6	26:54:42	300	90	3.0	#131 FSVS	2	
0136.COMP	12	11:39	17:26:51.6	26:54:42	300	90	3.0	#131 FSVS	2	
0137.sn2002cd	1200	11:43	20:23:34.4	+58:20:47	300	66	3.0	#2 SN Observat	2	
0138.COMP	12	12:03	20:23:34.4	+58:20:47	300	66	3.0	#2 SN Observat	2	
0139.N5548	90	12:07	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0140.N5548	90	12:09	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0141.N5548	90	12:11	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0142.COMP	12	12:13	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0143.BDp332642	60	12:15	15:50:03	33:05:49	300	83	3.0	#56 Spectropho	2	
0144.BDp332642	60	12:16	15:50:03	33:05:49	300	83	3.0	#56 Spectropho	2	
0145.COMP	12	12:18	15:50:03	33:05:49	300	83	3.0	#56 Spectropho	2	
0146.BDp332642	60	12:18	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0147.BDp332642	60	12:19	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0148.COMP	12	12:21	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0149-0158.BIAS	0	12:28	15:50:03	33:05:49	300	90	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>Bin</i>	<i>Comments</i>
0159-0168.FLAT	6	12:31	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0169-0178.BIAS	0	12:34	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0179-0188.FLAT	12	12:38	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0189-0198.DARK	900	14:56	15:50:03	33:05:49	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.DARK	900	22:25	04:32:15.0	31:30:09	300	90	3.0	#56 Spectropho	4	
0002.DARK	900	22:40	04:47:26.0	31:30:11	300	90	3.0	#56 Spectropho	4	
0003.DARK	900	22:55	05:02:33.0	31:30:13	300	90	3.0	#56 Spectropho	4	
0004.DARK	900	23:10	05:17:45.0	31:30:15	300	90	3.0	#56 Spectropho	4	
0005.DARK	900	23:25	05:32:52.0	31:30:17	300	90	3.0	#56 Spectropho	4	
0006.DARK	900	23:41	05:48:02.0	31:30:19	300	90	3.0	#56 Spectropho	4	
0007.DARK	900	23:56	06:03:10.0	31:30:22	300	90	3.0	#56 Spectropho	4	
0008.DARK	900	0:11	06:18:20.0	31:30:24	300	90	3.0	#56 Spectropho	4	
0009.DARK	900	0:26	06:33:31.0	31:30:26	300	90	3.0	#56 Spectropho	4	
0010.DARK	900	0:41	06:48:38.0	31:30:29	300	90	3.0	#56 Spectropho	4	
0011.BIAS	0	1:51	07:43:35.0	31:30:37	300	90	3.0	#56 Spectropho	4	solid clouds
0012-0020.BIAS	0	1:52	07:44:41.0	31:30:38	300	90	3.0	#56 Spectropho	4	
0021-0030.FLAT	8	1:55	07:47:30.0	31:30:38	300	90	3.0	#56 Spectropho	4	
0031-0040.BIAS	0	1:57	07:49:40.0	31:30:38	300	90	3.0	#56 Spectropho	2	
0041-0050.FLAT	16	2:02	07:54:35.0	31:30:39	300	90	3.0	#56 Spectropho	2	
0051-0055.sky	5	2:05	8:00:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:05	8:00:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.vso79184	600	2:53	05:59:47.7	00:46:04	300	90	3.0	#112 Orion PMS	4	
0058.COMP	5	3:03	05:59:47.7	00:46:04	300	90	3.0	#112 Orion PMS	4	
0059.vso79073	1200	3:04	05:59:42.8	00:52:20	300	90	3.0	#112 Orion PMS	4	target star @ row41



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0060.COMP	5	3:25	05:59:42.8	00:52:20	300	90	3.0	#112 Orion PMS	4	
0061.BGGem	1200	3:28	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	clearing nicely
0062.BGGem	360	3:48	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0063.COMP	10	3:55	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0064.MRK110	480	3:57	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	4	
0065.COMP	5	4:05	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	4	
0066.N3227	180	4:07	10:23:30.6	+19:51:54	300	-10	3.0	#6 AGN Monitor	4	
0067.N3227	180	4:10	10:23:30.6	+19:51:54	300	-10	3.0	#6 AGN Monitor	4	
0068.N3227	180	4:14	10:23:30.6	+19:51:54	300	-10	3.0	#6 AGN Monitor	4	
0069.COMP	5	4:17	10:23:30.6	+19:51:54	300	-10	3.0	#6 AGN Monitor	4	
0070.sn2002bo	1200	4:18	10:18:06.5	+21:49:41	300	0	3.0	#2 SN Observat	2	
0071.COMP	10	4:39	10:18:06.5	+21:49:41	300	0	3.0	#2 SN Observat	2	
0072.Feige34	150	4:40	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0073.Feige34	150	4:42	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0074.COMP	10	4:45	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0075.MRK421	300	4:46	11:04:27.4	+38:12:32	300	0	3.0	#133 MRK421	4	
0076.MRK421	300	4:51	11:04:27.4	+38:12:32	300	0	3.0	#133 MRK421	4	
0077.COMP	5	4:56	11:04:27.4	+38:12:32	300	0	3.0	#133 MRK421	4	
0078.N4051	150	4:58	12:03:09.7	+44:31:53	300	50	3.0	#6 AGN Monitor	4	
0079.N4051	150	5:00	12:03:09.7	+44:31:53	300	50	3.0	#6 AGN Monitor	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0080.COMP	5	5:03	12:03:09.7	+44:31:53	300	50	3.0	#6 AGN Monitor	4	
0081.N4151	30	5:05	12:10:32.6	+39:24:21	300	70	3.0	#6 AGN Monitor	4	
0082.N4151	30	5:06	12:10:32.6	+39:24:21	300	70	3.0	#6 AGN Monitor	4	
0083.N4151	30	5:07	12:10:32.6	+39:24:21	300	70	3.0	#6 AGN Monitor	4	
0084.COMP	5	5:07	12:10:32.6	+39:24:21	300	70	3.0	#6 AGN Monitor	4	
0085.MF7127.sn	900	5:22	12:02:57.8	04:50:45	300	90	3.0	#2 SN Observat	2	for 48inch
0086.COMP	10	5:37	12:02:57.8	04:50:45	300	90	3.0	#2 SN Observat	2	
0087.BIAS	0	5:39	12:02:57.8	04:50:45	300	90	3.0	#2 SN Observat	4	300-line, 5-sec slit
0088.Feige34	150	5:44	10:39:36.7	43:06:09	300	130	5.0	#132 HSTFGS Re	2	
0089.Feige34	150	5:47	10:39:36.7	43:06:09	300	130	5.0	#132 HSTFGS Re	2	
0090.Feige34	150	5:49	10:39:36.7	43:06:09	300	130	5.0	#132 HSTFGS Re	2	
0091.Feige34	150	5:52	10:39:36.7	43:06:09	300	130	5.0	#132 HSTFGS Re	2	
0092.COMP	10	5:55	10:39:36.7	43:06:09	300	130	5.0	#132 HSTFGS Re	2	
0093.HD84937	10	5:59	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	
0094.HD84937	10	6:00	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	
0095.HD84937	10	6:00	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	
0096.HD84937	10	6:00	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	
0097.HD84937	10	6:01	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	
0098.HD84937	10	6:01	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	
0099.HD84937	10	6:02	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0100.COMP	10	6:02	09:48:56.1	13:44:39	300	53	5.0	#132 HSTFGS Re	2	
0101.AMCVN	360	6:05	12:34:54.5	+37:37:43	300	90	5.0	#132 HSTFGS Re	2	
0102.AMCVN	360	6:11	12:34:54.5	+37:37:43	300	90	5.0	#132 HSTFGS Re	2	
0103.AMCVN	360	6:18	12:34:54.5	+37:37:43	300	90	5.0	#132 HSTFGS Re	2	
0104.COMP	10	6:25	12:34:54.5	+37:37:43	300	90	5.0	#132 HSTFGS Re	2	
0105.AMREF1	420	6:28	12:34:42.9	+37:36:28	300	90	5.0	#132 HSTFGS Re	2	
0106.AMREF1	420	6:35	12:34:42.9	+37:36:28	300	90	5.0	#132 HSTFGS Re	2	
0107.COMP	10	6:43	12:34:42.9	+37:36:28	300	90	5.0	#132 HSTFGS Re	2	
0108.AMREF4	300	6:45	12:34:54.9	+37:35:56	300	90	5.0	#132 HSTFGS Re	2	
0109.AMREF4	300	6:50	12:34:54.9	+37:35:56	300	90	5.0	#132 HSTFGS Re	2	
0110.AMREF4	300	6:56	12:34:54.9	+37:35:56	300	90	5.0	#132 HSTFGS Re	2	
0111.COMP	10	7:01	12:34:54.9	+37:35:56	300	90	5.0	#132 HSTFGS Re	2	
0112.AMREF3	480	7:03	12:34:50.2	+37:36:15	300	90	5.0	#132 HSTFGS Re	2	
0113.AMREF3	480	7:11	12:34:50.2	+37:36:15	300	90	5.0	#132 HSTFGS Re	2	
0114.COMP	10	7:20	12:34:50.2	+37:36:15	300	90	5.0	#132 HSTFGS Re	2	
0115-0134.FLAT	9	7:31	13:30:00	32:00:00	300	90	5.0	#132 HSTFGS Re	2	
0135.test	30	7:34	13:30:00	32:00:00	1200	90	2.0	#132 HSTFGS Re	4	1200-line, 2-sec slit, tilt=155
0136.Feige34	180	7:55	10:39:36.7	43:06:09	1200	91	2.0	#132 HSTFGS Re	2	blue 3900-4900A
0137.Feige34	240	7:58	10:39:36.7	43:06:09	1200	91	2.0	#132 HSTFGS Re	2	
0138.COMP	30	8:03	10:39:36.7	43:06:09	1200	91	2.0	#132 HSTFGS Re	2	

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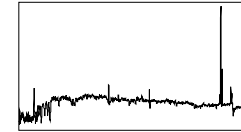
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0139.HD89449	5	8:04	10:19:45	19:28:26	1200	91	2.0	#132 HSTFGS Re	2	test star
0140.COMP	30	8:05	10:19:45	19:28:26	1200	91	2.0	#132 HSTFGS Re	2	
0141.AMREF4	900	8:07	12:34:54.9	+37:35:56	1200	91	2.0	#132 HSTFGS Re	2	
0142.COMP	30	8:22	12:34:54.9	+37:35:56	1200	91	2.0	#132 HSTFGS Re	2	
0143.AMREF3	1500	8:23	12:34:50.2	+37:36:15	1200	91	2.0	#132 HSTFGS Re	2	
0144.COMP	30	8:49	12:34:50.2	+37:36:15	1200	91	2.0	#132 HSTFGS Re	2	
0145.CRBOO	900	8:51	13:48:55.3	+07:57:35	1200	30	2.0	#132 HSTFGS Re	2	
0146.COMP	30	9:06	13:48:55.3	+07:57:35	1200	30	2.0	#132 HSTFGS Re	2	
0147.HPLIB	1200	9:09	15:35:53.1	-14:13:11	1200	0	2.0	#132 HSTFGS Re	2	
0148.COMP	30	9:29	15:35:53.1	-14:13:11	1200	0	2.0	#132 HSTFGS Re	2	
0149.HPREF1	900	9:30	15:35:48.2	-14:11:45	1200	0	2.0	#132 HSTFGS Re	2	
0150.COMP	30	9:46	15:35:48.2	-14:11:45	1200	0	2.0	#132 HSTFGS Re	2	
0151.HPREF3	1200	9:47	15:35:51.2	-14:14:24	1200	0	2.0	#132 HSTFGS Re	2	
0152.COMP	30	10:08	15:35:51.2	-14:14:24	1200	0	2.0	#132 HSTFGS Re	2	
0153.HPREF4	900	10:09	15:35:52.5	-14:14:06	1200	10	2.0	#132 HSTFGS Re	2	
0154.COMP	30	10:25	15:35:52.5	-14:14:06	1200	10	2.0	#132 HSTFGS Re	2	
0155.BDp332642	90	10:27	15:50:03	33:05:49	1200	100	2.0	#132 HSTFGS Re	2	
0156.BDp332642	240	10:29	15:50:03	33:05:49	1200	100	2.0	#132 HSTFGS Re	2	
0157.COMP	30	10:34	15:50:03	33:05:49	1200	100	2.0	#132 HSTFGS Re	2	
0158-0167.FLAT	120	10:55	17:00:00	25:00:00	1200	100	2.0	#132 HSTFGS Re	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0168.BIAS	0	11:00	17:00:00	25:00:00	300	100	3.0	#132 HSTFGS Re	2	
0169.BDp332642	60	11:01	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	300-line, 3-sec slit, combo
0170.BDp332642	60	11:03	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0171.COMP	10	11:04	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0172.sn2002bz	1200	11:06	14:24:40.5	+26:37:34	300	73	3.0	#2 SN Observat	2	
0173.COMP	10	11:26	14:24:40.5	+26:37:34	300	73	3.0	#2 SN Observat	2	
0174.sn2002cd	1200	11:29	20:23:34.4	+58:20:47	300	66	3.0	#2 SN Observat	2	
0175.COMP	10	11:49	20:23:34.4	+58:20:47	300	66	3.0	#2 SN Observat	2	
0176.com02.e2.snydermura	60	11:53	19:22:00	+34:25:00	300	90	3.0	#99 Other	4	
0177.com02.e2.snydermura	300	11:54	19:22:00	+34:25:00	300	90	3.0	#99 Other	4	
0178.COMP	5	11:59	19:22:00	+34:25:00	300	90	3.0	#99 Other	4	
0179.com00.wm1.lin	60	12:00	19:01:30	+10:20:00	300	90	3.0	#99 Other	4	
0180.com00.wm1.lin	240	12:02	19:01:30	+10:20:00	300	90	3.0	#99 Other	4	
0181.COMP	5	12:06	19:01:30	+10:20:00	300	90	3.0	#99 Other	4	
0182.N5866	120	12:07	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0183.COMP	5	12:10	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0184.BIAS	0	12:11	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	4	clear @ dawn
0185-0193.BIAS	0	12:12	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	4	
0194-0203.FLAT	8	12:16	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	4	
0204-0213.BIAS	0	12:19	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	2	

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<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0214-0223.FLAT	16	12:23	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	2	
0224-0233.DARK	1200	15:26	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	2	

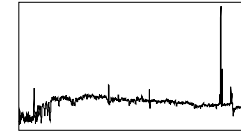
UT Date 2002-04-12 Observers P BerlindColl. Focus 940 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	23:50	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	4	
0011-0020.BIAS	0	0:47	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	4	
0021-0030.FLAT	8	0:51	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	4	
0031-0040.BIAS	0	0:54	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	2	
0041-0050.FLAT	16	0:59	15:05:07.2	+55:57:18	300	90	3.0	#99 Other	2	
0051.sky	3	2:04	7:55:00	32:00:00	300	90	3.0	#57 Velocity S	4	lots of thin cirrus
0052-0055.sky	3	2:04	7:55:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:05	7:55:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.2MJ0621324m153928	300	2:47	06:21:32.4	-15:39:28	300	90	3.0	#68 2MASS Reds	4	
0058.COMP	5	2:52	06:21:32.4	-15:39:28	300	90	3.0	#68 2MASS Reds	4	
0059.2MJ0606130m120449	270	2:53	06:06:13.0	-12:04:49	300	90	3.0	#68 2MASS Reds	4	
0060.COMP	5	2:58	06:06:13.0	-12:04:49	300	90	3.0	#68 2MASS Reds	4	
0061.2MJ0614350m121230	330	2:59	06:14:35.0	-12:12:30	300	90	3.0	#68 2MASS Reds	2	
0062.COMP	10	3:04	06:14:35.0	-12:12:30	300	90	3.0	#68 2MASS Reds	2	
0063.2MJ0609013m104251	150	3:05	06:09:01.3	-10:42:51	300	90	3.0	#68 2MASS Reds	2	star w/ faint neb, no gal
0064.COMP	5	3:08	06:09:01.3	-10:42:51	300	90	3.0	#68 2MASS Reds	2	
0065.2MJ0616151m133641	330	3:09	06:16:15.1	-13:36:41	300	90	3.0	#68 2MASS Reds	4	
0066.COMP	5	3:15	06:16:15.1	-13:36:41	300	90	3.0	#68 2MASS Reds	4	
0067.2MJ0622013m135326	360	3:16	06:22:01.3	-13:53:26	300	90	3.0	#68 2MASS Reds	4	
0068.COMP	5	3:22	06:22:01.3	-13:53:26	300	90	3.0	#68 2MASS Reds	4	

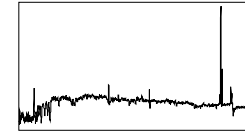
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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0069.BGGem	1200	3:24	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0070.BGGem	360	3:44	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0071.COMP	10	3:50	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0072.2MJ0842089p224505	1200	3:52	08:42:08.9	+22:45:05	300	90	3.0	#68 2MASS Reds	4	
0073.COMP	5	4:12	08:42:08.9	+22:45:05	300	90	3.0	#68 2MASS Reds	4	
0074.snn2604	1200	4:15	08:33:42.2	+29:32:00	300	79	3.0	#2 SN Observat	2	
0075.COMP	10	4:37	08:33:42.2	+29:32:00	300	79	3.0	#2 SN Observat	2	
0076.Feige34	150	4:38	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0077.Feige34	150	4:41	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0078.COMP	10	4:44	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0079.2MJ0919411p802135	1200	4:47	09:19:41.1	+80:21:35	300	90	3.0	#68 2MASS Reds	4	
0080.COMP	5	5:08	09:19:41.1	+80:21:35	300	90	3.0	#68 2MASS Reds	4	
0081.2MJ0919411p802135	1200	5:08	09:19:41.1	+80:21:35	300	90	3.0	#2 SN Observat	4	more telescope runaways
0082.COMP	5	5:29	09:19:41.1	+80:21:35	300	90	3.0	#2 SN Observat	4	
0083.sn2002bo	1200	5:31	10:18:06.5	+21:49:41	300	60	3.0	#2 SN Observat	2	
0084.COMP	10	5:51	10:18:06.5	+21:49:41	300	60	3.0	#2 SN Observat	2	
0085.BIAS	0	5:55	12:00:00	32:00:00	600	90	2.0	#2 SN Observat	4	
0086.HD086801	5	5:56	10:01:34.3	28:34:00	600	90	2.0	#122 Halo Star	4	600-line, 2-sec slit, tilt=430
0087.HD086801	10	5:56	10:01:34.3	28:34:00	600	90	2.0	#122 Halo Star	4	
0088.HD086801	10	5:57	10:01:34.3	28:34:00	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
0089.HD086801	10	5:57	10:01:34.3	28:34:00	600	90	2.0	#122 Halo Star	4	
0090.COMP	10	5:58	10:01:34.3	28:34:00	600	90	2.0	#122 Halo Star	4	
0091.HD237822	45	5:59	9:36:49.5	57:54:41	600	90	2.0	#122 Halo Star	4	
0092.HD237822	45	6:00	9:36:49.5	57:54:41	600	90	2.0	#122 Halo Star	4	
0093.HD237822	45	6:01	9:36:49.5	57:54:41	600	90	2.0	#122 Halo Star	4	
0094.COMP	10	6:02	9:36:49.5	57:54:41	600	90	2.0	#122 Halo Star	4	
0095.Feige34	150	6:07	10:36:41.2	43:21:50	600	100	2.0	#122 Halo Star	4	more runaways, redo
0096.Feige34	150	6:10	10:36:41.2	43:21:50	600	100	2.0	#122 Halo Star	4	
0097.COMP	10	6:13	10:36:41.2	43:21:50	600	100	2.0	#122 Halo Star	4	
0098.Feige34	150	6:14	10:36:41.2	43:21:50	600	100	2.0	#122 Halo Star	4	
0099.Feige34	150	6:17	10:36:41.2	43:21:50	600	100	2.0	#122 Halo Star	4	
0100.COMP	10	6:20	10:36:41.2	43:21:50	600	100	2.0	#122 Halo Star	4	
0101.hs773	1200	6:22	10:37:41.9	29:18:22	600	100	2.0	#122 Halo Star	4	
0102.COMP	10	6:43	10:37:41.9	29:18:22	600	100	2.0	#122 Halo Star	4	
0103.hs774	1200	6:43	10:38:35.0	28:53:51	600	100	2.0	#122 Halo Star	4	
0104.COMP	10	7:04	10:38:35.0	28:53:51	600	100	2.0	#122 Halo Star	4	
0105.hs788	1200	7:05	10:54:02.0	29:13:07	600	100	2.0	#122 Halo Star	4	
0106.COMP	10	7:25	10:54:02.0	29:13:07	600	100	2.0	#122 Halo Star	4	
0107.hs800	1200	7:26	11:06:50.4	29:35:32	600	100	2.0	#122 Halo Star	4	
0108.COMP	10	7:46	11:06:50.4	29:35:32	600	100	2.0	#122 Halo Star	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0109.hs812	1200	7:47	11:23:31.6	29:18:00	600	100	2.0	#122 Halo Star	4	
0110.COMP	10	8:07	11:23:31.6	29:18:00	600	100	2.0	#122 Halo Star	4	
0111.BS15621d52	360	8:08	10:17:33.3	22:58:31	600	100	2.0	#122 Halo Star	4	
0112.COMP	10	8:15	10:17:33.3	22:58:31	600	100	2.0	#122 Halo Star	4	
0113.HD089449	1	8:16	10:19:44.1	19:28:15	600	100	2.0	#122 Halo Star	4	
0114.HD089449	1	8:16	10:19:44.1	19:28:15	600	100	2.0	#122 Halo Star	4	
0115.HD089449	1	8:16	10:19:44.1	19:28:15	600	100	2.0	#122 Halo Star	4	
0116.COMP	10	8:17	10:19:44.1	19:28:15	600	100	2.0	#122 Halo Star	4	
0117.HD090839	1	8:18	10:30:37.5	55:58:49	600	100	2.0	#122 Halo Star	4	
0118.HD090839	1	8:18	10:30:37.5	55:58:49	600	100	2.0	#122 Halo Star	4	
0119.HD090839	1	8:19	10:30:37.5	55:58:49	600	100	2.0	#122 Halo Star	4	
0120.COMP	10	8:19	10:30:37.5	55:58:49	600	100	2.0	#122 Halo Star	4	
0121.HD094028	10	8:20	10:51:28.1	20:16:39	600	100	2.0	#122 Halo Star	4	
0122.HD094028	10	8:21	10:51:28.1	20:16:39	600	100	2.0	#122 Halo Star	4	
0123.HD094028	10	8:21	10:51:28.1	20:16:39	600	100	2.0	#122 Halo Star	4	
0124.COMP	10	8:21	10:51:28.1	20:16:39	600	100	2.0	#122 Halo Star	4	
0125.FEIGE41	120	8:23	11:25:54.0	6:30:00	600	100	2.0	#122 Halo Star	4	
0126.FEIGE41	120	8:25	11:25:54.0	6:30:00	600	100	2.0	#122 Halo Star	4	
0127.COMP	10	8:27	11:25:54.0	6:30:00	600	100	2.0	#122 Halo Star	4	
0128.FEIGE40	120	8:28	11:21:29.3	11:19:17	600	100	2.0	#122 Halo Star	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0129.FEIGE40	120	8:30	11:21:29.3	11:19:17	600	100	2.0	#122 Halo Star	4	
0130.COMP	10	8:33	11:21:29.3	11:19:17	600	100	2.0	#122 Halo Star	4	
0131.HD101177	5	8:34	11:38:44.9	45:06:30	600	100	2.0	#122 Halo Star	4	
0132.HD101177	5	8:34	11:38:44.9	45:06:30	600	100	2.0	#122 Halo Star	4	
0133.HD101177	5	8:35	11:38:44.9	45:06:30	600	100	2.0	#122 Halo Star	4	
0134.COMP	10	8:35	11:38:44.9	45:06:30	600	100	2.0	#122 Halo Star	4	
0135.BS15625d26	120	8:36	11:51:50.0	26:21:55	600	100	2.0	#122 Halo Star	4	
0136.BS15625d26	120	8:38	11:51:50.0	26:21:55	600	100	2.0	#122 Halo Star	4	
0137.COMP	10	8:41	11:51:50.0	26:21:55	600	100	2.0	#122 Halo Star	4	
0138.BS16026d11	360	8:42	12:16:50.0	28:56:03	600	100	2.0	#122 Halo Star	4	
0139.COMP	10	8:48	12:16:50.0	28:56:03	600	100	2.0	#122 Halo Star	4	
0140.BS16026d06	600	8:49	12:16:57.5	30:42:44	600	100	2.0	#122 Halo Star	4	
0141.COMP	10	8:59	12:16:57.5	30:42:44	600	100	2.0	#122 Halo Star	4	
0142.BDp332642	60	9:01	15:50:03	33:05:49	600	86	2.0	#122 Halo Star	4	
0143.BDp332642	60	9:03	15:50:03	33:05:49	600	86	2.0	#122 Halo Star	4	
0144.BDp332642	60	9:04	15:50:03	33:05:49	600	86	2.0	#122 Halo Star	4	
0145.COMP	10	9:05	15:50:03	33:05:49	600	86	2.0	#122 Halo Star	4	
0146-0165.FLAT	40	9:21	15:50:03	33:05:49	600	86	2.0	#122 Halo Star	4	
0166.BIAS	0	9:25	15:50:03	33:05:49	600	86	2.0	#122 Halo Star	4	300-line, 3-sec slit
0167.BDp332642	60	9:26	15:50:03	33:05:49	300	80	3.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0168.BDp332642	60	9:27	15:50:03	33:05:49	300	80	3.0	#56 Spectropho	2	
0169.COMP	10	9:29	15:50:03	33:05:49	300	80	3.0	#56 Spectropho	2	
0170.2MJ1547224m233405	240	9:31	15:47:22.4	-23:34:05	300	80	3.0	#68 2MASS Reds	4	
0171.COMP	5	9:35	15:47:22.4	-23:34:05	300	80	3.0	#68 2MASS Reds	4	
0172.2MJ1548133m245309	330	9:36	15:48:13.3	-24:53:09	300	80	3.0	#68 2MASS Reds	4	
0173.COMP	5	9:42	15:48:13.3	-24:53:09	300	80	3.0	#68 2MASS Reds	4	
0174.2MJ1549325m193911	150	9:43	15:49:32.5	-19:39:11	300	80	3.0	#68 2MASS Reds	4	
0175.COMP	5	9:45	15:49:32.5	-19:39:11	300	80	3.0	#68 2MASS Reds	4	
0176.2MJ1549408m243458	180	9:46	15:49:40.8	-24:34:58	300	80	3.0	#68 2MASS Reds	4	
0177.COMP	5	9:49	15:49:40.8	-24:34:58	300	80	3.0	#68 2MASS Reds	4	
0178.2MJ1550589m260336	480	9:50	15:50:58.9	-26:03:36	300	80	3.0	#68 2MASS Reds	4	
0179.COMP	5	9:58	15:50:58.9	-26:03:36	300	80	3.0	#68 2MASS Reds	4	
0180.2MJ1557235m153838	180	9:59	15:57:23.5	-15:38:38	300	80	3.0	#68 2MASS Reds	4	
0181.COMP	5	10:02	15:57:23.5	-15:38:38	300	80	3.0	#68 2MASS Reds	4	
0182.2MJ1603467m224408	360	10:03	16:03:46.7	-22:44:08	300	80	3.0	#68 2MASS Reds	4	
0183.COMP	5	10:09	16:03:46.7	-22:44:08	300	80	3.0	#68 2MASS Reds	4	
0184.2MJ1603121m131937	360	10:10	16:03:12.1	-13:19:37	300	80	3.0	#68 2MASS Reds	4	
0185.COMP	5	10:17	16:03:12.1	-13:19:37	300	80	3.0	#68 2MASS Reds	4	
0186.2MJ1604463m121918	360	10:17	16:04:46.3	-12:19:18	300	80	3.0	#68 2MASS Reds	4	
0187.COMP	5	10:24	16:04:46.3	-12:19:18	300	80	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0188.2MJ1605267m015618	210	10:25	16:05:26.7	-01:56:18	300	80	3.0	#68 2MASS Reds	4	
0189.COMP	5	10:28	16:05:26.7	-01:56:18	300	80	3.0	#68 2MASS Reds	4	
0190.2MJ1606473m010605	210	10:29	16:06:47.3	-01:06:05	300	80	3.0	#68 2MASS Reds	4	
0191.COMP	5	10:33	16:06:47.3	-01:06:05	300	80	3.0	#68 2MASS Reds	4	
0192.2MJ1607021p010619	240	10:34	16:07:02.1	+01:06:19	300	80	3.0	#68 2MASS Reds	2	fainter star to west
0193.COMP	10	10:38	16:07:02.1	+01:06:19	300	80	3.0	#68 2MASS Reds	2	
0194.2MJ1601575p471227	1200	10:40	16:01:57.5	+47:12:27	300	80	3.0	#68 2MASS Reds	4	
0195.COMP	5	11:00	16:01:57.5	+47:12:27	300	80	3.0	#68 2MASS Reds	4	
0196.FSVSJ162530	1200	11:02	16:25:30.7	27:05:46	300	80	3.0	#131 FSVS	4	beauty qso
0197.COMP	5	11:23	16:25:30.7	27:05:46	300	80	3.0	#131 FSVS	4	
0198.N5548	180	11:24	14:17:59.6	+25:08:12	300	180	3.0	#6 AGN Monitor	4	
0199.N5548	180	11:27	14:17:59.6	+25:08:12	300	180	3.0	#6 AGN Monitor	4	
0200.COMP	5	11:30	14:17:59.6	+25:08:12	300	180	3.0	#6 AGN Monitor	4	
0201.sn2002cd	1200	11:33	20:23:34.4	+58:20:47	300	60	3.0	#2 SN Observat	2	
0202.COMP	10	11:54	20:23:34.4	+58:20:47	300	60	3.0	#2 SN Observat	2	
0203.MRK501	180	11:55	16:53:52.1	39:45:36	300	90	3.0	#6 AGN Monitor	4	mostly clear @ dawn
0204.MRK501	180	11:59	16:53:52.1	39:45:36	300	90	3.0	#6 AGN Monitor	4	
0205.COMP	5	12:02	16:53:52.1	39:45:36	300	90	3.0	#6 AGN Monitor	4	
0206.N5866	150	12:03	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0207.COMP	5	12:06	15:05:07.2	+55:57:18	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>
0208-0217.BIAS	0	12:09	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	4	
0218-0227.FLAT	8	12:11	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	4	
0228-0237.BIAS	0	12:13	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	2	
0238-0247.FLAT	16	12:18	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	2	
0248-0257.DARK	1200	15:32	15:05:07.2	+55:57:18	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
0001-0010.DARK	900	22:51	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	4	
0011-0020.BIAS	0	1:05	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	4	
0021-0030.FLAT	8	1:07	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	4	
0031.BIAS	0	1:08	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	2	lots of clouds
0032-0040.BIAS	0	1:10	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	2	
0041-0050.FLAT	16	1:15	15:05:07.2	+55:57:18	300	90	3.0	#6 AGN Monitor	2	
0051-0055.sky	3	2:06	8:00:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:06	8:00:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.HD52971	5	2:50	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	4	
0058.HD52971	5	2:51	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	4	
0059.HD52971	5	2:51	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	4	
0060.COMP	5	2:51	06:57:51	+27:13:42	300	90	3.0	#57 Velocity S	4	
0061.2MJ0630057m265014	240	2:53	06:30:05.7	-26:50:14	300	90	3.0	#68 2MASS Reds	4	
0062.COMP	5	2:57	06:30:05.7	-26:50:14	300	90	3.0	#68 2MASS Reds	4	
0063.2MJ0632520m254320	300	2:58	06:32:52.0	-25:43:20	300	90	3.0	#68 2MASS Reds	4	
0064.COMP	5	3:03	06:32:52.0	-25:43:20	300	90	3.0	#68 2MASS Reds	4	
0065.2MJ0638000m241202	360	3:04	06:38:00.0	-24:12:02	300	90	3.0	#68 2MASS Reds	4	
0066.COMP	5	3:10	06:38:00.0	-24:12:02	300	90	3.0	#68 2MASS Reds	4	
0067.2MJ0642415m272733	150	3:11	06:42:41.5	-27:27:33	300	90	3.0	#68 2MASS Reds	4	
0068.COMP	5	3:14	06:42:41.5	-27:27:33	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0069.2MJ0617578m203014	330	3:15	06:17:57.8	-20:30:14	300	90	3.0	#68 2MASS Reds	4	
0070.COMP	5	3:20	06:17:57.8	-20:30:14	300	90	3.0	#68 2MASS Reds	4	
0071.2MJ0627007m171138	720	3:22	06:27:00.7	-17:11:38	300	90	3.0	#68 2MASS Reds	4	more clouds
0072.COMP	5	3:34	06:27:00.7	-17:11:38	300	90	3.0	#68 2MASS Reds	4	
0073.BGGem	1200	3:35	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0074.BGGem	360	3:56	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0075.COMP	10	4:02	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0076.N3227	180	4:04	10:23:30.6	+19:51:54	300	0	3.0	#6 AGN Monitor	4	
0077.N3227	180	4:08	10:23:30.6	+19:51:54	300	0	3.0	#6 AGN Monitor	4	
0078.COMP	5	4:11	10:23:30.6	+19:51:54	300	0	3.0	#6 AGN Monitor	4	
0079.sn2002bo	1200	4:12	10:18:06.5	+21:49:41	300	0	3.0	#2 SN Observat	2	
0080.COMP	10	4:32	10:18:06.5	+21:49:41	300	0	3.0	#2 SN Observat	2	
0081.Feige34	150	4:34	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0082.Feige34	150	4:36	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0083.COMP	10	4:39	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0084.MRK421	300	4:40	11:04:27.4	+38:12:32	300	0	3.0	#133 MRK421	2	
0085.MRK421	300	4:45	11:04:27.4	+38:12:32	300	0	3.0	#133 MRK421	2	
0086.COMP	10	4:51	11:04:27.4	+38:12:32	300	0	3.0	#133 MRK421	2	
0087.N4051	150	4:52	12:03:09.7	+44:31:53	300	0	3.0	#6 AGN Monitor	4	
0088.N4051	150	4:54	12:03:09.7	+44:31:53	300	0	3.0	#6 AGN Monitor	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0089.COMP	5	4:57	12:03:09.7	+44:31:53	300	0	3.0	#6 AGN Monitor	4	
0090.N4151	30	4:58	12:10:32.6	+39:24:21	300	0	3.0	#6 AGN Monitor	4	
0091.N4151	30	4:59	12:10:32.6	+39:24:21	300	0	3.0	#6 AGN Monitor	4	
0092.N4151	60	5:00	12:10:32.6	+39:24:21	300	0	3.0	#6 AGN Monitor	4	
0093.N4151	60	5:01	12:10:32.6	+39:24:21	300	0	3.0	#6 AGN Monitor	4	
0094.COMP	5	5:03	12:10:32.6	+39:24:21	300	0	3.0	#6 AGN Monitor	4	
0095.2MJ1101569p183520	360	5:04	11:01:56.9	+18:35:20	300	0	3.0	#68 2MASS Reds	4	
0096.COMP	5	5:10	11:01:56.9	+18:35:20	300	0	3.0	#68 2MASS Reds	4	
0097.2MJ1102073p014547	300	5:12	11:02:07.3	+01:45:47	300	0	3.0	#68 2MASS Reds	4	
0098.COMP	5	5:17	11:02:07.3	+01:45:47	300	0	3.0	#68 2MASS Reds	4	
0099.2MJ1102228p080309	330	5:19	11:02:22.8	+08:03:09	300	0	3.0	#68 2MASS Reds	4	
0100.COMP	5	5:25	11:02:22.8	+08:03:09	300	0	3.0	#68 2MASS Reds	4	
0101.2MJ1103158p191411	300	5:28	11:03:15.8	+19:14:11	300	0	3.0	#68 2MASS Reds	4	
0102.COMP	5	5:33	11:03:15.8	+19:14:11	300	0	3.0	#68 2MASS Reds	4	
0103.2MJ1103163p190650	240	5:33	11:03:16.3	+19:06:50	300	0	3.0	#68 2MASS Reds	4	
0104.COMP	5	5:38	11:03:16.3	+19:06:50	300	0	3.0	#68 2MASS Reds	4	
0105.2MJ1103204p073046	300	5:39	11:03:20.4	+07:30:46	300	0	3.0	#68 2MASS Reds	4	
0106.COMP	5	5:44	11:03:20.4	+07:30:46	300	0	3.0	#68 2MASS Reds	4	
0107.2MJ1103297p162212	270	5:45	11:03:29.7	+16:22:12	300	0	3.0	#68 2MASS Reds	4	
0108.COMP	5	5:49	11:03:29.7	+16:22:12	300	0	3.0	#68 2MASS Reds	4	

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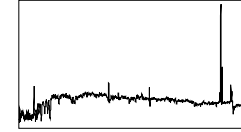
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0109.sn2002bs	1200	5:53	13:18:30.3	-14:36:31	300	-21	3.0	#2 SN Observat	2	
0110.COMP	10	6:13	13:18:30.3	-14:36:31	300	-21	3.0	#2 SN Observat	2	
0111.BIAS	0	6:18	12:25:00	32:00:00	1200	90	2.0	#2 SN Observat	2	1200-line, 2sec, tilt=153
0112.COMP	30	6:19	10:39:36.7	43:06:09	1200	90	2.0	#132 HSTFGS Re	2	
0113.Feige34	240	6:20	10:39:36.7	43:06:09	1200	100	2.0	#132 HSTFGS Re	2	
0114.Feige34	240	6:25	10:39:36.7	43:06:09	1200	100	2.0	#132 HSTFGS Re	2	
0115.COMP	30	6:29	10:39:36.7	43:06:09	1200	100	2.0	#132 HSTFGS Re	2	
0116.GPCOM	1200	6:32	13:05:43.4	+18:01:02	1200	100	2.0	#132 HSTFGS Re	2	
0117.COMP	30	6:53	13:05:43.4	+18:01:02	1200	100	2.0	#132 HSTFGS Re	2	
0118.GPCOM	1200	6:54	13:05:43.4	+18:01:02	1200	100	2.0	#132 HSTFGS Re	2	
0119.COMP	30	7:14	13:05:43.4	+18:01:02	1200	100	2.0	#132 HSTFGS Re	2	
0120.GPREF1and4	1200	7:20	13:05:36.2	+18:01:09	1200	-56	2.0	#132 HSTFGS Re	2	star 1 @ row 83, star 4 @ row 104
0121.COMP	30	7:40	13:05:36.2	+18:01:09	1200	-56	2.0	#132 HSTFGS Re	2	star 4 is the brighter star
0122.GPREF1and4	1200	7:42	13:05:36.2	+18:01:09	1200	-56	2.0	#132 HSTFGS Re	2	
0123.COMP	30	8:02	13:05:36.2	+18:01:09	1200	-56	2.0	#132 HSTFGS Re	2	
0124.CRREF2	900	8:06	13:49:11.5	+07:57:51	1200	0	2.0	#132 HSTFGS Re	2	
0125.COMP	30	8:22	13:49:11.5	+07:57:51	1200	0	2.0	#132 HSTFGS Re	2	
0126.CRREF6	1200	8:24	13:48:38.4	+07:57:03	1200	25	2.0	#132 HSTFGS Re	2	
0127.COMP	30	8:45	13:48:38.4	+07:57:03	1200	25	2.0	#132 HSTFGS Re	2	
0128.CRREF6	1200	8:46	13:48:38.4	+07:57:03	1200	25	2.0	#132 HSTFGS Re	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0129.COMP	30	9:06	13:48:38.4	+07:57:03	1200	25	2.0	#132 HSTFGS Re	2	
0130.CRREF6	1200	9:07	13:48:38.4	+07:57:03	1200	25	2.0	#132 HSTFGS Re	2	
0131.COMP	30	9:28	13:48:38.4	+07:57:03	1200	25	2.0	#132 HSTFGS Re	2	
0132.CRREF5	30	9:29	13:48:34.7	+07:57:36	1200	42	2.0	#132 HSTFGS Re	2	
0133.CRREF5	30	9:30	13:48:34.7	+07:57:36	1200	42	2.0	#132 HSTFGS Re	2	
0134.CRREF5	30	9:31	13:48:34.7	+07:57:36	1200	42	2.0	#132 HSTFGS Re	2	
0135.COMP	30	9:32	13:48:34.7	+07:57:36	1200	42	2.0	#132 HSTFGS Re	2	
0136.BDp262606	120	9:34	14:49:02	25:42:09	1200	60	2.0	#132 HSTFGS Re	2	
0137.BDp262606	120	9:36	14:49:02	25:42:09	1200	60	2.0	#132 HSTFGS Re	2	
0138.COMP	30	9:39	14:49:02	25:42:09	1200	60	2.0	#132 HSTFGS Re	2	
0139.HPREF2	1200	9:43	15:35:36.7	-14:11:54	1200	5	2.0	#132 HSTFGS Re	2	
0140.COMP	20	10:03	15:35:36.7	-14:11:54	1200	5	2.0	#132 HSTFGS Re	2	
0141.HPREF2	1200	10:04	15:35:36.7	-14:11:54	1200	10	2.0	#132 HSTFGS Re	2	
0142.COMP	30	10:24	15:35:36.7	-14:11:54	1200	10	2.0	#132 HSTFGS Re	2	
0143-0152.FLAT	120	10:47	17:00:00	32:00:00	1200	10	2.0	#132 HSTFGS Re	2	
0153.BIAS	0	10:52	17:00:00	32:00:00	300	90	3.0	#132 HSTFGS Re	4	300-line, 3-sec slit, combo
0154.2MJ1607476m024217	240	10:54	16:07:47.6	-02:42:17	300	90	3.0	#68 2MASS Reds	4	
0155.COMP	5	10:58	16:07:47.6	-02:42:17	300	90	3.0	#68 2MASS Reds	4	
0156.2MJ1608208m053003	360	10:59	16:08:20.8	-05:30:03	300	90	3.0	#68 2MASS Reds	4	
0157.COMP	5	11:05	16:08:20.8	-05:30:03	300	90	3.0	#68 2MASS Reds	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0158.2MJ1608242m053944	540	11:06	16:08:24.2	-05:39:44	300	90	3.0	#68 2MASS Reds	4	
0159.COMP	5	11:15	16:08:24.2	-05:39:44	300	90	3.0	#68 2MASS Reds	4	
0160.2MJ1609098m043534	270	11:16	16:09:09.8	-04:35:34	300	90	3.0	#68 2MASS Reds	4	
0161.COMP	5	11:21	16:09:09.8	-04:35:34	300	90	3.0	#68 2MASS Reds	4	
0162.sn2002cd	1200	11:24	20:23:34.4	+58:20:47	300	65	3.0	#2 SN Observat	2	
0163.COMP	10	11:45	20:23:34.4	+58:20:47	300	65	3.0	#2 SN Observat	2	
0164.HD192281	5	11:46	20:10:46.8	40:07:01	300	95	3.0	#56 Spectropho	2	
0165.HD192281	5	11:47	20:10:46.8	40:07:01	300	95	3.0	#56 Spectropho	2	
0166.HD192281	5	11:47	20:10:46.8	40:07:01	300	95	3.0	#56 Spectropho	2	
0167.COMP	10	11:47	20:10:46.8	40:07:01	300	95	3.0	#56 Spectropho	2	
0168.BDp404032	60	11:48	20:06:40	41:06:15	300	95	3.0	#56 Spectropho	2	hi Susan!!
0169.BDp404032	60	11:49	20:06:40	41:06:15	300	95	3.0	#56 Spectropho	2	
0170.COMP	10	11:51	20:06:40	41:06:15	300	95	3.0	#56 Spectropho	2	
0171.BDp332642	60	11:52	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	2	
0172.BDp332642	60	11:53	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	2	
0173.COMP	10	11:55	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	2	
0174.BIAS	0	11:56	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	4	finally clearing @ dawn???
0175-0183.BIAS	0	11:58	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	4	
0184-0193.FLAT	8	12:00	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	4	
0194-0203.BIAS	0	12:02	15:50:03	33:05:49	300	85	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>Bin</i>	<i>Comments</i>
0204-0213.FLAT	16	12:07	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	2	
0214-0223.DARK	900	14:38	15:50:03	33:05:49	300	85	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.DARK	900	21:10	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	4	
0011-0020.DARK	900	23:43	15:50:03	33:05:49	300	85	3.0	#56 Spectropho	2	
0021-0030.BIAS	0	0:48	06:52:40.0	31:30:29	300	85	3.0	#56 Spectropho	4	
0031-0040.FLAT	6	0:51	06:55:29.0	31:30:30	300	85	3.0	#56 Spectropho	4	
0041-0050.BIAS	0	0:54	06:58:01.0	31:30:30	300	85	3.0	#56 Spectropho	2	
0051.FLAT	12	0:55	06:59:28.0	31:30:30	300	85	3.0	#56 Spectropho	2	
0052-0060.FLAT	12	0:59	07:03:09.0	31:30:31	300	85	3.0	#56 Spectropho	2	
0061.Hiltner600	60	2:38	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0062.Hiltner600	60	2:39	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0063.COMP	5	2:40	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0064.Hiltner600	60	2:41	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0065.Hiltner600	60	2:42	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0066.COMP	12	2:44	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0067.Hiltner600	60	2:45	06:42:37.2	02:11:25	300	41	3.0	#56 Spectropho	2	
0068.Hiltner600	60	2:46	06:42:37.2	02:11:25	300	41	3.0	#56 Spectropho	2	
0069.COMP	12	2:48	06:42:37.2	02:11:25	300	41	3.0	#56 Spectropho	2	
0070.vso25433	480	2:50	05:06:12.8	00:44:18	300	90	3.0	#112 Orion PMS	2	
0071.COMP	12	2:58	05:06:12.8	00:44:18	300	90	3.0	#112 Orion PMS	2	
0072.vso26077	720	2:59	05:07:02.3	00:30:02	300	90	3.0	#112 Orion PMS	2	
0073.COMP	12	3:12	05:07:02.3	00:30:02	300	90	3.0	#112 Orion PMS	2	

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0074.vso26964	900	3:13	05:08:07.6	00:32:35	300	90	3.0	#112 Orion PMS	2	
0075.COMP	12	3:29	05:08:07.6	00:32:35	300	90	3.0	#112 Orion PMS	2	
0076.vso27003	600	3:30	05:08:09.9	00:21:32	300	90	3.0	#112 Orion PMS	2	
0077.COMP	12	3:40	05:08:09.9	00:21:32	300	90	3.0	#112 Orion PMS	2	
0078.sn2002bo	1200	3:45	10:18:06.5	+21:49:41	300	-33	3.0	#2 SN Observat	2	row=78
0079.COMP	12	4:05	10:18:06.5	+21:49:41	300	-33	3.0	#2 SN Observat	2	
0080.MRK421	300	4:07	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0081.MRK421	300	4:13	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0082.MRK421	300	4:18	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0083.COMP	12	4:23	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0084.2MJ1103325p144339	1200	4:27	11:03:32.5	+14:43:39	300	90	3.0	#68 2MASS Reds	2	
0085.COMP	12	4:47	11:03:32.5	+14:43:39	300	90	3.0	#68 2MASS Reds	2	
0086.2MJ1103459p184515	480	4:49	11:03:45.9	+18:45:15	300	90	3.0	#68 2MASS Reds	2	
0087.COMP	12	4:57	11:03:45.9	+18:45:15	300	90	3.0	#68 2MASS Reds	2	
0088.2MJ1103514p090759	360	4:59	11:03:51.4	+09:07:59	300	90	3.0	#68 2MASS Reds	2	
0089.COMP	12	5:05	11:03:51.4	+09:07:59	300	90	3.0	#68 2MASS Reds	2	
0090.2MJ1103541p142524	240	5:06	11:03:54.1	+14:25:24	300	90	3.0	#68 2MASS Reds	2	
0091.COMP	12	5:11	11:03:54.1	+14:25:24	300	90	3.0	#68 2MASS Reds	2	
0092.2MJ1104184p021847	900	5:12	11:04:18.4	+02:18:47	300	90	3.0	#68 2MASS Reds	2	
0093.COMP	12	5:27	11:04:18.4	+02:18:47	300	90	3.0	#68 2MASS Reds	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0094.2MJ1104534p074021	480	5:29	11:04:53.4	+07:40:21	300	90	3.0	#68 2MASS Reds	2	
0095.COMP	12	5:37	11:04:53.4	+07:40:21	300	90	3.0	#68 2MASS Reds	2	
0096.2MJ1104542p022149	240	5:38	11:04:54.2	+02:21:49	300	90	3.0	#68 2MASS Reds	2	
0097.COMP	12	5:43	11:04:54.2	+02:21:49	300	90	3.0	#68 2MASS Reds	2	
0098.2MJ1105081p101653	240	5:44	11:05:08.1	+10:16:53	300	90	3.0	#68 2MASS Reds	2	
0099.COMP	12	5:48	11:05:08.1	+10:16:53	300	90	3.0	#68 2MASS Reds	2	
0100.2MJ1105193p220601	180	5:50	11:05:19.3	+22:06:01	300	90	3.0	#68 2MASS Reds	2	
0101.COMP	12	5:53	11:05:19.3	+22:06:01	300	90	3.0	#68 2MASS Reds	2	
0102.2MJ1105280p023344	300	5:54	11:05:28.0	+02:33:44	300	90	3.0	#68 2MASS Reds	2	
0103.COMP	12	6:00	11:05:28.0	+02:33:44	300	90	3.0	#68 2MASS Reds	2	
0104.2MJ1105458p194702	420	6:01	11:05:45.8	+19:47:02	300	90	3.0	#68 2MASS Reds	2	
0105.COMP	12	6:09	11:05:45.8	+19:47:02	300	90	3.0	#68 2MASS Reds	2	
0106.2MJ1105540p110429	270	6:10	11:05:54.0	+11:04:29	300	90	3.0	#68 2MASS Reds	2	
0107.COMP	12	6:15	11:05:54.0	+11:04:29	300	90	3.0	#68 2MASS Reds	2	
0108.2MJ1106265p025154	300	6:16	11:06:26.5	+02:51:54	300	90	3.0	#68 2MASS Reds	2	
0109.COMP	12	6:21	11:06:26.5	+02:51:54	300	90	3.0	#68 2MASS Reds	2	
0110.2MJ1106265p142150	600	6:22	11:06:26.5	+14:21:50	300	90	3.0	#68 2MASS Reds	2	
0111.COMP	12	6:33	11:06:26.5	+14:21:50	300	90	3.0	#68 2MASS Reds	2	
0112.2MJ1106302p130846	420	6:34	11:06:30.2	+13:08:46	300	90	3.0	#68 2MASS Reds	2	
0113.COMP	12	6:41	11:06:30.2	+13:08:46	300	90	3.0	#68 2MASS Reds	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0114.2MJ1106316p224639	240	6:42	11:06:31.6	+22:46:39	300	90	3.0	#68 2MASS Reds	2	
0115.COMP	12	6:47	11:06:31.6	+22:46:39	300	90	3.0	#68 2MASS Reds	2	
0116.2MJ1106333p001648	240	6:48	11:06:33.3	+00:16:48	300	90	3.0	#68 2MASS Reds	2	
0117.COMP	12	6:53	11:06:33.3	+00:16:48	300	90	3.0	#68 2MASS Reds	2	
0118.2MJ1106366p131942	600	6:54	11:06:36.6	+13:19:42	300	90	3.0	#68 2MASS Reds	2	
0119.COMP	12	7:05	11:06:36.6	+13:19:42	300	90	3.0	#68 2MASS Reds	2	
0120.sn2002bz	1200	7:08	14:24:40.5	+26:37:34	300	110	3.0	#2 SN Observat	2	
0121.COMP	12	7:28	14:24:40.5	+26:37:34	300	110	3.0	#2 SN Observat	2	
0122.FSVSJ103755	1200	7:32	10:37:55.9	04:44:38	300	90	3.0	#131 FSVS	2	
0123.COMP	12	7:53	10:37:55.9	04:44:38	300	90	3.0	#131 FSVS	2	
0124.FLAT	40	7:58	10:37:55.9	04:44:38	600	90	2.0	#122 Halo Star	4	600L, 2arcsec, tilt=430
0125-0133.FLAT	40	8:05	10:37:55.9	04:44:38	600	90	2.0	#122 Halo Star	4	
0134.hs1000	1020	8:08	13:30:16.3	29:47:37	600	90	2.0	#122 Halo Star	4	
0135.COMP	10	8:25	13:30:16.3	29:47:37	600	90	2.0	#122 Halo Star	4	
0136.BDp332642	120	8:27	15:50:03	33:05:49	600	90	2.0	#56 Spectropho	4	
0137.COMP	10	8:29	15:50:03	33:05:49	600	90	2.0	#56 Spectropho	4	
0138.hs1001	540	8:31	13:31:53.9	30:00:10	600	90	2.0	#122 Halo Star	4	
0139.COMP	10	8:40	13:31:53.9	30:00:10	600	90	2.0	#122 Halo Star	4	
0140.hs1002	420	8:41	13:40:25.8	30:07:17	600	90	2.0	#122 Halo Star	4	
0141.COMP	10	8:48	13:40:25.8	30:07:17	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
0142.hs1003	150	8:49	13:45:03.4	29:18:52	600	90	2.0	#122 Halo Star	4	
0143.COMP	10	8:52	13:45:03.4	29:18:52	600	90	2.0	#122 Halo Star	4	
0144.hs1004	900	8:54	13:53:03.9	29:53:54	600	90	2.0	#122 Halo Star	4	
0145.COMP	10	9:09	13:53:03.9	29:53:54	600	90	2.0	#122 Halo Star	4	
0146.hs1005	900	9:10	13:57:22.8	29:54:15	600	90	2.0	#122 Halo Star	4	
0147.COMP	10	9:26	13:57:22.8	29:54:15	600	90	2.0	#122 Halo Star	4	
0148.hs1005	900	9:26	13:57:22.8	29:54:15	600	90	2.0	#122 Halo Star	4	
0149.COMP	10	9:42	13:57:22.8	29:54:15	600	90	2.0	#122 Halo Star	4	
0150.hs1006	720	9:43	13:59:03.4	29:04:31	600	90	2.0	#122 Halo Star	4	
0151.COMP	12	9:55	13:59:03.4	29:04:31	600	90	2.0	#122 Halo Star	4	
0152.hs1007	1200	9:56	14:00:21.2	29:25:05	600	90	2.0	#122 Halo Star	4	
0153.COMP	10	10:16	14:00:21.2	29:25:05	600	90	2.0	#122 Halo Star	4	
0154.hs1008	360	10:19	14:01:08.0	28:40:40	600	90	2.0	#122 Halo Star	4	
0155.COMP	10	10:25	14:01:08.0	28:40:40	600	90	2.0	#122 Halo Star	4	
0156.hs1009	360	10:26	14:01:13.9	30:36:53	600	90	2.0	#122 Halo Star	4	
0157.COMP	10	10:33	14:01:13.9	30:36:53	600	90	2.0	#122 Halo Star	4	
0158.hs1010	1200	10:34	14:01:25.7	28:21:07	600	90	2.0	#122 Halo Star	4	
0159.COMP	10	10:55	14:01:25.7	28:21:07	600	90	2.0	#122 Halo Star	4	
0160.FSVSJ172645	1200	11:01	17:26:45.5	26:42:28	300	90	3.0	#131 FSVS	4	normal setup
0161.COMP	5	11:21	17:26:45.5	26:42:28	300	90	3.0	#131 FSVS	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0162.FSVSJ183006	1020	11:24	18:30:06.2	35:51:59	300	90	3.0	#131 FSVS	4	
0163.COMP	5	11:41	18:30:06.2	35:51:59	300	90	3.0	#131 FSVS	4	
0164.sn2002cd	1200	11:43	20:23:34.4	+58:20:47	300	62	3.0	#2 SN Observat	2	
0165.COMP	12	12:04	20:23:34.4	+58:20:47	300	62	3.0	#2 SN Observat	2	
0166.BDp332642	45	12:06	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0167.BDp332642	45	12:07	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0168.COMP	12	12:08	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0169.BDp332642	45	12:09	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0170.BDp332642	45	12:10	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0171.COMP	5	12:12	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0172-0176.sky	2	12:35	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0177.COMP	5	12:36	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0178-0187.BIAS	0	12:39	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0188-0197.FLAT	6	12:42	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0198-0207.BIAS	0	12:44	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0208-0217.FLAT	12	12:48	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0218-0227.DARK	900	15:06	15:50:03	33:05:49	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.DARK	900	1:50	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0011-0020.BIAS	0	2:07	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0021-0030.FLAT	6	2:09	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0031-0040.BIAS	0	2:12	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0041-0050.FLAT	12	2:16	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0051.Feige34	120	2:45	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0052.COMP	5	2:47	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0053.Feige34	120	2:48	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0054.COMP	12	2:50	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0055.Feige34	120	2:51	10:36:41.2	43:21:50	300	70	3.0	#56 Spectropho	2	
0056.COMP	12	2:54	10:36:41.2	43:21:50	300	70	3.0	#56 Spectropho	2	
0057.vso29259	720	2:58	05:10:43.9	00:21:36	300	90	3.0	#112 Orion PMS	2	
0058.COMP	12	3:10	05:10:43.9	00:21:36	300	90	3.0	#112 Orion PMS	2	
0059.vso30062	720	3:11	05:11:38.6	00:51:28	300	90	3.0	#112 Orion PMS	2	
0060.COMP	12	3:24	05:11:38.6	00:51:28	300	90	3.0	#112 Orion PMS	2	
0061.vso30667	900	3:25	05:12:17.6	00:39:37	300	90	3.0	#112 Orion PMS	2	
0062.COMP	12	3:40	05:12:17.6	00:39:37	300	90	3.0	#112 Orion PMS	2	
0063.BGGem	300	3:42	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0064.COMP	12	3:47	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0065.BGGem	1200	3:48	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0066.COMP	12	4:09	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0067.MRK421	300	4:11	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0068.MRK421	300	4:16	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0069.MRK421	300	4:21	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0070.COMP	12	4:27	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0071.2MJ1106507p142723	180	4:29	11:06:50.7	+14:27:23	300	90	3.0	#68 2MASS Reds	2	
0072.COMP	12	4:33	11:06:50.7	+14:27:23	300	90	3.0	#68 2MASS Reds	2	
0073.2MJ1106509p135458	1200	4:35	11:06:50.9	+13:54:58	300	90	3.0	#68 2MASS Reds	2	
0074.COMP	12	4:55	11:06:50.9	+13:54:58	300	90	3.0	#68 2MASS Reds	2	
0075.2MJ1107177p080435	360	4:57	11:07:17.7	+08:04:35	300	90	3.0	#68 2MASS Reds	2	
0076.COMP	12	5:03	11:07:17.7	+08:04:35	300	90	3.0	#68 2MASS Reds	2	
0077.2MJ1107228p044201	480	5:05	11:07:22.8	+04:42:01	300	90	3.0	#68 2MASS Reds	2	
0078.COMP	12	5:13	11:07:22.8	+04:42:01	300	90	3.0	#68 2MASS Reds	2	
0079.2MJ1107547p130620	900	5:27	11:07:54.7	+13:06:20	300	90	3.0	#68 2MASS Reds	2	
0080.COMP	12	5:32	11:07:54.7	+13:06:20	300	90	3.0	#68 2MASS Reds	2	
0081.2MJ1108164p085531	360	5:33	11:08:16.4	+08:55:31	300	90	3.0	#68 2MASS Reds	2	row=75
0082.COMP	12	5:40	11:08:16.4	+08:55:31	300	90	3.0	#68 2MASS Reds	2	
0083.2MJ1108314p211013	360	5:41	11:08:31.4	+21:10:13	300	90	3.0	#68 2MASS Reds	2	
0084.COMP	12	5:48	11:08:31.4	+21:10:13	300	90	3.0	#68 2MASS Reds	2	
0085.2MJ1108338p025129	360	5:49	11:08:33.8	+02:51:29	300	90	3.0	#68 2MASS Reds	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0086.COMP	12	5:56	11:08:33.8	+02:51:29	300	90	3.0	#68 2MASS Reds	2	
0087.2MJ1108410p032511	240	5:57	11:08:41.0	+03:25:11	300	90	3.0	#68 2MASS Reds	2	
0088.COMP	12	6:01	11:08:41.0	+03:25:11	300	90	3.0	#68 2MASS Reds	2	
0089.2MJ1108486p070021	300	6:02	11:08:48.6	+07:00:21	300	90	3.0	#68 2MASS Reds	2	
0090.COMP	12	6:08	11:08:48.6	+07:00:21	300	90	3.0	#68 2MASS Reds	2	
0091.2MJ1108519p231746	240	6:10	11:08:51.9	+23:17:46	300	90	3.0	#68 2MASS Reds	2	
0092.COMP	12	6:14	11:08:51.9	+23:17:46	300	90	3.0	#68 2MASS Reds	2	
0093.2MJ1109274p151648	300	6:16	11:09:27.4	+15:16:48	300	90	3.0	#68 2MASS Reds	2	
0094.COMP	12	6:21	11:09:27.4	+15:16:48	300	90	3.0	#68 2MASS Reds	2	
0095.2MJ1109293p104115	270	6:23	11:09:29.3	+10:41:15	300	90	3.0	#68 2MASS Reds	2	
0096.COMP	12	6:28	11:09:29.3	+10:41:15	300	90	3.0	#68 2MASS Reds	2	
0097.2MJ1109463p004849	420	6:29	11:09:46.3	+00:48:49	300	90	3.0	#68 2MASS Reds	2	
0098.COMP	12	6:36	11:09:46.3	+00:48:49	300	90	3.0	#68 2MASS Reds	2	
0099.2MJ1110022p215855	240	6:38	11:10:02.2	+21:58:55	300	90	3.0	#68 2MASS Reds	2	
0100.COMP	12	6:42	11:10:02.2	+21:58:55	300	90	3.0	#68 2MASS Reds	2	
0101.2MJ1110085p043158	540	6:43	11:10:08.5	+04:31:58	300	90	3.0	#68 2MASS Reds	2	
0102.COMP	12	6:53	11:10:08.5	+04:31:58	300	90	3.0	#68 2MASS Reds	2	
0103.snn4786	1200	6:57	12:54:31.3	-06:51:24	300	2	3.0	#2 SN Observat	2	
0104.COMP	12	7:17	12:54:31.3	-06:51:24	300	2	3.0	#2 SN Observat	2	wait out some clouds....
0105.snu10415	1200	8:36	16:29:00.4	41:17:00	300	73	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0106.COMP	12	8:56	16:29:00.4	41:17:00	300	73	3.0	#2 SN Observat	2	
0107.a2199s_026	780	8:58	16:18:11.8	40:05:41	300	90	3.0	#64 Cluster In	2	
0108.COMP	12	9:12	16:18:11.8	40:05:41	300	90	3.0	#64 Cluster In	2	
0109.a2199s_028	360	9:15	16:19:18.1	37:05:42	300	90	3.0	#64 Cluster In	2	
0110.COMP	12	9:21	16:19:18.1	37:05:42	300	90	3.0	#64 Cluster In	2	
0111.a2199s_029	360	9:22	16:19:41.5	36:05:17	300	90	3.0	#64 Cluster In	2	
0112.COMP	12	9:29	16:19:41.5	36:05:17	300	90	3.0	#64 Cluster In	2	
0113.a2199s_030	1200	9:30	16:19:52.9	35:52:21	300	90	3.0	#64 Cluster In	2	
0114.COMP	12	9:50	16:19:52.9	35:52:21	300	90	3.0	#64 Cluster In	2	
0115.a2199s_031	360	9:54	16:20:53.8	40:06:14	300	90	3.0	#64 Cluster In	2	
0116.COMP	12	10:01	16:20:53.8	40:06:14	300	90	3.0	#64 Cluster In	2	
0117.a2199s_032	780	10:01	16:21:05.0	39:55:02	300	90	3.0	#64 Cluster In	2	
0118.COMP	12	10:15	16:21:05.0	39:55:02	300	90	3.0	#64 Cluster In	2	
0119.a2199s_033	480	10:16	16:21:11.0	36:04:06	300	90	3.0	#64 Cluster In	2	
0120.COMP	12	10:24	16:21:11.0	36:04:06	300	90	3.0	#64 Cluster In	2	
0121.a2199s_034	240	10:25	16:21:27.9	36:22:35	300	90	3.0	#64 Cluster In	2	
0122.COMP	12	10:30	16:21:27.9	36:22:35	300	90	3.0	#64 Cluster In	2	
0123.a2199s_035	240	10:31	16:21:43.3	37:59:45	300	90	3.0	#64 Cluster In	2	
0124.COMP	12	10:36	16:21:43.3	37:59:45	300	90	3.0	#64 Cluster In	2	
0125.a2199s_036	780	10:37	16:22:00.2	40:26:52	300	90	3.0	#64 Cluster In	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0126.COMP	12	10:50	16:22:00.2	40:26:52	300	90	3.0	#64 Cluster In	2	
0127.N5548	90	10:52	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0128.N5548	90	10:54	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0129.N5548	90	10:55	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0130.COMP	12	10:57	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0131.FSVSJ183243	1200	10:59	18:32:43.4	35:45:18	300	90	3.0	#131 FSVS	2	
0132.COMP	12	11:20	18:32:43.4	35:45:18	300	90	3.0	#131 FSVS	2	
0133.FSVSJ183245	1020	11:22	18:32:45.9	36:25:17	300	90	3.0	#131 FSVS	2	row=70
0134.COMP	12	11:40	18:32:45.9	36:25:17	300	90	3.0	#131 FSVS	2	
0135.sn2002cd	1200	11:43	20:23:34.4	+58:20:47	300	60	3.0	#2 SN Observat	2	
0136.COMP	12	12:03	20:23:34.4	+58:20:47	300	60	3.0	#2 SN Observat	2	
0137.N5866	180	12:06	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0138.COMP	12	12:09	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0139.BDp332642	60	12:11	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0140.BDp332642	60	12:12	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0141.COMP	12	12:14	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0142.BDp332642	60	12:15	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0143.BDp332642	60	12:16	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0144.COMP	12	12:17	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0145.BDp332642	60	12:18	15:50:03	33:05:49	300	90	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>
0146.BDp332642	60	12:19	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0147.COMP	5	12:21	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0148-0152.sky	2	12:34	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0153.COMP	5	12:34	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0154-0163.BIAS	0	12:36	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0164-0173.FLAT	6	12:39	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0174-0183.BIAS	0	12:42	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0184-0193.FLAT	12	12:47	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0194-0203.DARK	900	15:10	15:50:03	33:05:49	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.DARK	900	1:25	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0011-0020.BIAS	0	1:41	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0021-0030.FLAT	6	1:43	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0031-0040.BIAS	0	1:46	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0041-0050.FLAT	12	1:51	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0051-0055.sky	2	2:15	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:15	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	clouds at sunset
0057.Feige34	120	5:48	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0058.COMP	5	5:50	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0059.Feige34	120	7:11	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	high humidity
0060.COMP	12	7:14	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0061.Feige34	120	7:15	10:36:41.2	43:21:50	300	95	3.0	#56 Spectropho	2	terrible seeing
0062.COMP	12	7:17	10:36:41.2	43:21:50	300	95	3.0	#56 Spectropho	2	
0063.sn2002bo	1200	7:22	10:18:06.5	+21:49:41	300	66	3.0	#2 SN Observat	2	
0064.COMP	12	7:42	10:18:06.5	+21:49:41	300	66	3.0	#2 SN Observat	2	
0065.MRK421	360	7:44	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0066.MRK421	360	7:50	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0067.MRK421	360	7:56	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0068.COMP	12	8:03	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0069.N4051	120	8:04	12:03:09.7	+44:31:53	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
0070.N4051	120	8:06	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0071.N4051	120	8:08	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0072.COMP	12	8:11	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0073.N4151	30	8:12	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0074.N4151	30	8:13	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0075.N4151	30	8:14	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0076.COMP	12	8:15	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0077.2MJ1609230m084121	420	8:17	16:09:23.0	-08:41:21	300	90	3.0	#68 2MASS Reds	2	
0078.COMP	12	8:25	16:09:23.0	-08:41:21	300	90	3.0	#68 2MASS Reds	2	
0079.2MJ1609258m042921	480	8:28	16:09:25.8	-04:29:21	300	90	3.0	#68 2MASS Reds	2	
0080.COMP	12	8:36	16:09:25.8	-04:29:21	300	90	3.0	#68 2MASS Reds	2	
0081.2MJ1612288m055753	420	8:37	16:12:28.8	-05:57:53	300	90	3.0	#68 2MASS Reds	2	
0082.COMP	12	8:45	16:12:28.8	-05:57:53	300	90	3.0	#68 2MASS Reds	2	
0083.2MJ1616087m063321	420	8:47	16:16:08.7	-06:33:21	300	90	3.0	#68 2MASS Reds	2	
0084.COMP	12	8:55	16:16:08.7	-06:33:21	300	90	3.0	#68 2MASS Reds	2	
0085.2MJ1616382m064902	480	8:56	16:16:38.2	-06:49:02	300	90	3.0	#68 2MASS Reds	2	
0086.COMP	12	9:04	16:16:38.2	-06:49:02	300	90	3.0	#68 2MASS Reds	2	
0087.2MJ1617450m064934	900	9:05	16:17:45.0	-06:49:34	300	90	3.0	#68 2MASS Reds	2	
0088.COMP	12	9:21	16:17:45.0	-06:49:34	300	90	3.0	#68 2MASS Reds	2	
0089.2MJ1618345m151739	420	9:22	16:18:34.5	-15:17:39	300	90	3.0	#68 2MASS Reds	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>
0090.COMP	12	9:30	16:18:34.5	-15:17:39	300	90	3.0	#68 2MASS Reds	2	
0091.2MJ1619083m030431	780	9:32	16:19:08.3	-03:04:31	300	90	3.0	#68 2MASS Reds	2	
0092.COMP	12	9:45	16:19:08.3	-03:04:31	300	90	3.0	#68 2MASS Reds	2	
0093.BIAS	0	11:02	16:20:41.2	-10:13:06	300	90	3.0	#133 MRK421	2	thick fog
0094-0102.BIAS	0	11:04	16:20:41.2	-10:13:06	300	90	3.0	#133 MRK421	2	
0103-0112.FLAT	12	11:09	16:20:41.2	-10:13:06	300	90	3.0	#133 MRK421	2	
0113-0122.BIAS	0	11:11	16:20:41.2	-10:13:06	300	90	3.0	#133 MRK421	4	
0123-0132.FLAT	6	11:14	16:20:41.2	-10:13:06	300	90	3.0	#133 MRK421	4	
0133-0142.DARK	900	13:35	16:20:41.2	-10:13:06	300	90	3.0	#133 MRK421	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	22:29	04:59:41.0	31:30:13	300	90	3.0	#133 MRK421	4	massfunc is all binby2
0002.DARK	900	22:44	05:14:52.0	31:30:15	300	90	3.0	#133 MRK421	4	
0003.DARK	900	22:59	05:29:59.0	31:30:17	300	90	3.0	#133 MRK421	4	
0004.DARK	900	23:14	05:45:10.0	31:30:19	300	90	3.0	#133 MRK421	4	
0005.DARK	900	23:29	06:00:17.0	31:30:22	300	90	3.0	#133 MRK421	4	
0006.DARK	900	23:44	06:15:28.0	31:30:24	300	90	3.0	#133 MRK421	4	
0007.DARK	900	23:59	06:30:35.0	31:30:26	300	90	3.0	#133 MRK421	4	
0008.DARK	900	0:15	06:45:46.0	31:30:29	300	90	3.0	#133 MRK421	4	
0009.DARK	900	0:30	07:00:53.0	31:30:31	300	90	3.0	#133 MRK421	4	
0010.DARK	900	0:45	07:16:04.0	31:30:33	300	90	3.0	#133 MRK421	4	
0011-0020.BIAS	0	1:43	07:59:38.0	31:30:40	600	90	2.0	#133 MRK421	2	
0021.FLAT	55	1:44	08:01:27.0	31:30:40	600	90	2.0	#133 MRK421	2	clearing??
0022.FLAT	55	1:45	08:02:36.0	31:30:40	600	90	2.0	#133 MRK421	2	
0023-0028.FLAT	55	1:52	08:09:20.0	31:30:41	600	90	2.0	#133 MRK421	2	
0029-0030.FLAT	55	1:54	08:11:34.0	31:30:42	600	90	2.0	#133 MRK421	2	
0031.HD100006	30	2:40	11:30:29.0	18:24:35	600	90	2.0	#57 Radial Vel	2	
0032.HD100006	30	2:41	11:30:29.0	18:24:35	600	90	2.0	#57 Radial Vel	2	
0033.COMP	20	2:42	11:30:29.0	18:24:35	600	90	2.0	#57 Radial Vel	2	
0034.Feige34	150	2:45	10:36:41.2	43:21:50	600	90	2.0	#57 Radial Vel	2	
0035.Feige34	150	2:48	10:36:41.2	43:21:50	600	90	2.0	#57 Radial Vel	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0036.Feige34	150	2:51	10:36:41.2	43:21:50	600	90	2.0	#57 Radial Vel	2	
0037.COMP	20	2:54	10:36:41.2	43:21:50	600	90	2.0	#57 Radial Vel	2	
0038.COMP	20	2:56	12:09:43.5	13:29:05	600	90	2.0	#88f Mass Func	2	
0039.NGC4168	300	2:56	12:09:43.5	13:29:05	600	90	2.0	#88f Mass Func	2	
0040.NGC4168	300	3:02	12:09:43.5	13:29:05	600	90	2.0	#88f Mass Func	2	
0041.COMP	20	3:08	12:09:43.5	13:29:05	600	90	2.0	#88f Mass Func	2	
0042.NGC4278	300	3:09	12:17:36.1	29:33:29	600	90	2.0	#88f Mass Func	2	local mtn clouds
0043.NGC4278	300	3:14	12:17:36.1	29:33:29	600	90	2.0	#88f Mass Func	2	
0044.COMP	20	3:19	12:17:36.1	29:33:29	600	90	2.0	#88f Mass Func	2	cold, high humidity
0045.NGC4365	240	3:22	12:21:54.9	07:35:42	600	40	2.0	#88f Mass Func	2	
0046.NGC4365	240	3:26	12:21:54.9	07:35:42	600	40	2.0	#88f Mass Func	2	
0047.COMP	20	3:31	12:21:54.9	07:35:42	600	40	2.0	#88f Mass Func	2	
0048.NGC4382	240	3:33	12:22:52.8	18:28:00	600	57	2.0	#88f Mass Func	2	
0049.NGC4382	240	3:37	12:22:52.8	18:28:00	600	57	2.0	#88f Mass Func	2	
0050.COMP	20	3:43	12:22:52.8	18:28:00	600	57	2.0	#88f Mass Func	2	
0051.MF4057	600	4:00	12:15:55.1	+23:35:44	600	70	2.0	#88f Mass Func	2	
0052.MF4057	600	4:10	12:15:55.1	+23:35:44	600	70	2.0	#88f Mass Func	2	
0053.COMP	20	4:20	12:15:55.1	+23:35:44	600	70	2.0	#88f Mass Func	2	
0054.COMP	20	5:02	12:12:49.6	+65:48:53	600	60	2.0	#88f Mass Func	2	
0055.MF4062	720	5:02	12:12:49.6	+65:48:53	600	60	2.0	#88f Mass Func	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0056.MF4062	720	5:15	12:12:49.6	+65:48:53	600	60	2.0	#88f Mass Func	2	
0057.MF4062	720	5:27	12:12:49.6	+65:48:53	600	60	2.0	#88f Mass Func	2	
0058.COMP	20	5:39	12:12:49.6	+65:48:53	600	60	2.0	#88f Mass Func	2	
0059.COMP	20	6:01	12:58:57.7	31:15:25	600	60	2.0	#88f Mass Func	2	
0060.MF0036	1200	6:02	12:58:57.7	31:15:25	600	90	2.0	#88f Mass Func	2	
0061.MF0036	1200	6:22	12:58:57.7	31:15:25	600	90	2.0	#88f Mass Func	2	
0062.MF0036	1200	6:42	12:58:57.7	31:15:25	600	90	2.0	#88f Mass Func	2	
0063.COMP	20	7:03	12:58:57.7	31:15:25	600	90	2.0	#88f Mass Func	2	
0064.COMP	20	7:05	11:36:20.0	+20:31:18	600	45	2.0	#88f Mass Func	2	
0065.MF4048	900	7:06	11:36:20.0	+20:31:18	600	45	2.0	#88f Mass Func	2	mmt in fog
0066.MF4048	900	7:21	11:36:20.0	+20:31:18	600	45	2.0	#88f Mass Func	2	
0067.MF4048	900	7:36	11:36:20.0	+20:31:18	600	45	2.0	#88f Mass Func	2	
0068.COMP	20	7:52	11:36:20.0	+20:31:18	600	45	2.0	#88f Mass Func	2	
0069.MF4064	600	7:56	12:55:25.0	+27:47:53	600	45	2.0	#88f Mass Func	2	
0070.MF4064	600	8:06	12:55:25.0	+27:47:53	600	-25	2.0	#88f Mass Func	2	
0071.COMP	20	8:16	12:55:25.0	+27:47:53	600	-25	2.0	#88f Mass Func	2	stopped by high humidity, dome closing
0072.MF7067	720	9:28	13:01:43.3	+29:02:40	600	85	2.0	#88 Mass Funct	2	
0073.MF7067	720	9:40	13:01:43.3	+29:02:40	600	85	2.0	#88 Mass Funct	2	
0074.COMP	20	9:53	13:01:43.3	+29:02:40	600	85	2.0	#88 Mass Funct	2	
0075.BDp332642	150	9:55	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0076.BDp332642	150	9:58	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	
0077.BDp332642	150	10:00	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	
0078.COMP	20	10:03	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	
0079.HD133582	40	10:05	15:04:26.7	26:56:51	600	90	2.0	#57 Radial Vel	2	
0080.HD133582	40	10:06	15:04:26.7	26:56:51	600	90	2.0	#57 Radial Vel	2	
0081.COMP	20	10:08	15:04:26.7	26:56:51	600	90	2.0	#57 Radial Vel	2	
0082.HD145457	40	10:09	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	stopped by fog
0083.COMP	20	10:12	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	
0084-0093.BIAS	0	10:36	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	
0094-0103.FLAT	55	10:46	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	
0104-0113.DARK	900	13:05	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	23:46	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	
0011-0020.BIAS	0	1:00	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	
0021.FLAT	55	1:00	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	thin clouds
0022-0040.FLAT	55	1:22	16:10:03.9	26:44:33	600	90	2.0	#57 Radial Vel	2	
0041.HD100006	45	2:45	11:30:29.0	18:24:35	600	90	2.0	#57 Radial Vel	2	
0042.HD100006	45	2:48	11:30:29.0	18:24:35	600	90	2.0	#57 Radial Vel	2	
0043.COMP	20	2:49	11:30:29.0	18:24:35	600	90	2.0	#57 Radial Vel	2	
0044.Feige34	150	2:50	10:36:41.2	43:21:50	600	100	2.0	#57 Radial Vel	2	
0045.Feige34	150	2:53	10:36:41.2	43:21:50	600	100	2.0	#57 Radial Vel	2	
0046.COMP	20	2:56	10:36:41.2	43:21:50	600	100	2.0	#57 Radial Vel	2	
0047.NGC4278	300	2:57	12:17:36.1	29:33:29	600	90	2.0	#88f Mass Func	2	
0048.NGC4278	300	3:03	12:17:36.1	29:33:29	600	90	2.0	#88f Mass Func	2	
0049.COMP	20	3:08	12:17:36.1	29:33:29	600	90	2.0	#88f Mass Func	2	
0050.COMP	20	3:11	10:18:54.4	+16:9:20	600	-15	2.0	#88f Mass Func	2	
0051.MF4038	1200	3:12	10:18:54.4	+16:9:20	600	-15	2.0	#88f Mass Func	2	
0052.MF4038	1200	3:32	10:18:54.4	+16:9:20	600	-15	2.0	#88f Mass Func	2	
0053.MF4038	1200	3:52	10:18:54.4	+16:9:20	600	-15	2.0	#88f Mass Func	2	
0054.COMP	20	4:13	10:18:54.4	+16:9:20	600	-15	2.0	#88f Mass Func	2	
0055.COMP	20	4:15	11:48:27.5	12:43:38	600	-70	2.0	#88f Mass Func	2	
0056.MF0021	1200	4:16	11:48:27.5	12:43:38	600	-70	2.0	#88f Mass Func	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0057.MF0021	1200	4:37	11:48:27.5	12:43:38	600	-70	2.0	#88f Mass Func	2	
0058.MF0021	1200	4:59	11:48:27.5	12:43:38	600	-70	2.0	#88f Mass Func	2	
0059.COMP	20	5:19	11:48:27.5	12:43:38	600	-70	2.0	#88f Mass Func	2	
0060.MF7067	600	5:21	13:01:43.3	+29:02:40	600	85	2.0	#88 Mass Funct	2	
0061.MF7067	600	5:31	13:01:43.3	+29:02:40	600	85	2.0	#88 Mass Funct	2	
0062.COMP	20	5:41	13:01:43.3	+29:02:40	600	85	2.0	#88 Mass Funct	2	
0063.COMP	20	5:43	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0064.MF4058	900	5:43	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0065.MF4058	900	5:59	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0066.MF4058	900	6:14	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0067.COMP	20	6:29	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0068.MF7103	600	6:31	14:27:42.0	+69:41:39	600	105	2.0	#88 Mass Funct	2	
0069.MF7103	600	6:42	14:27:42.0	+69:41:39	600	105	2.0	#88 Mass Funct	2	
0070.COMP	20	6:52	14:27:42.0	+69:41:39	600	105	2.0	#88 Mass Funct	2	
0071.COMP	20	6:55	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0072.MF7041	720	6:55	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0073.MF7041	720	7:07	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0074.MF7041	720	7:20	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0075.COMP	20	7:32	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0076.NGC4473	240	7:34	12:27:17.1	13:42:20	600	100	2.0	#88f Mass Func	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0077.NGC4473	240	7:38	12:27:17.1	13:42:20	600	100	2.0	#88f Mass Func	2	
0078.COMP	20	7:43	12:27:17.1	13:42:20	600	100	2.0	#88f Mass Func	2	
0079.COMP	20	7:45	12:15:12.5	+14:25:58	600	-10	2.0	#88 Mass Func	2	
0080.MF7046	1200	7:46	12:15:12.5	+14:25:58	600	-10	2.0	#88 Mass Func	2	
0081.MF7046	1200	8:07	12:15:12.5	+14:25:58	600	-10	2.0	#88 Mass Func	2	
0082.MF7046	1200	8:27	12:15:12.5	+14:25:58	600	-10	2.0	#88 Mass Func	2	
0083.COMP	20	8:47	12:15:12.5	+14:25:58	600	-10	2.0	#88 Mass Func	2	
0084.MF4072	540	8:49	13:02:04.2	+29:15:12	600	-20	2.0	#88 Mass Func	2	
0085.MF4072	540	8:58	13:02:04.2	+29:15:12	600	-20	2.0	#88 Mass Func	2	
0086.COMP	20	9:08	13:02:04.2	+29:15:12	600	-20	2.0	#88 Mass Func	2	
0087.NGC4839	360	9:11	12:54:59.0	27:46:00	600	65	2.0	#88f Mass Func	2	
0088.NGC4839	360	9:17	12:54:59.0	27:46:00	600	65	2.0	#88f Mass Func	2	
0089.COMP	20	9:23	12:54:59.0	27:46:00	600	65	2.0	#88f Mass Func	2	
0090.BDp332642	90	9:25	15:50:03	33:05:49	600	65	2.0	#57 Radial Vel	2	
0091.BDp332642	90	9:27	15:50:03	33:05:49	600	65	2.0	#57 Radial Vel	2	
0092.BDp332642	90	9:28	15:50:03	33:05:49	600	65	2.0	#57 Radial Vel	2	
0093.COMP	20	9:30	15:50:03	33:05:49	600	65	2.0	#57 Radial Vel	2	
0094.MF7043	600	9:32	14:16:36.9	+24:30:9	600	55	2.0	#88 Mass Func	2	
0095.MF7043	600	9:43	14:16:36.9	+24:30:9	600	55	2.0	#88 Mass Func	2	
0096.MF7043	600	9:53	14:16:36.9	+24:30:9	600	55	2.0	#88 Mass Func	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0097.COMP	20	10:06	14:16:36.9	+24:30:9	600	55	2.0	#88 Mass Funct	2	
0098.MF7075	720	10:09	14:14:20.8	+07:30:57	600	90	2.0	#88 Mass Funct	2	
0099.MF7075	720	10:22	14:14:20.8	+07:30:57	600	90	2.0	#88 Mass Funct	2	
0100.COMP	20	10:34	14:14:20.8	+07:30:57	600	90	2.0	#88 Mass Funct	2	
0101.COMP	20	10:36	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	high humidity
0102.MF7121	900	10:37	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	
0103.MF7121	900	10:52	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	
0104.MF7121	900	11:07	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	
0105.COMP	20	11:23	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	
0106.HD147677	60	11:32	16:22:05.8	30:53:31	600	-65	2.0	#57 Radial Vel	2	
0107.HD147677	60	11:33	16:22:05.8	30:53:31	600	-65	2.0	#57 Radial Vel	2	
0108.COMP	20	11:35	16:22:05.8	30:53:31	600	-65	2.0	#57 Radial Vel	2	
0109.HD152224	40	11:37	16:50:43.1	32:33:13	600	-65	2.0	#57 Radial Vel	2	
0110.HD152224	40	11:38	16:50:43.1	32:33:13	600	-65	2.0	#57 Radial Vel	2	
0111.COMP	20	11:39	16:50:43.1	32:33:13	600	-65	2.0	#57 Radial Vel	2	
0112.HD154084	40	11:40	17:02:18.7	25:30:20	600	-65	2.0	#57 Radial Vel	2	
0113.HD154084	40	11:41	17:02:18.7	25:30:20	600	-65	2.0	#57 Radial Vel	2	
0114.COMP	20	11:42	17:02:18.7	25:30:20	600	-65	2.0	#57 Radial Vel	2	
0115.HD162211	40	11:43	17:48:49.1	25:37:22	600	-65	2.0	#57 Radial Vel	2	
0116.HD162211	40	11:44	17:48:49.1	25:37:22	600	-65	2.0	#57 Radial Vel	2	



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Coll. Focus 980 Grating/Grism 600

<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>
0117.COMP	20	11:45	17:48:49.1	25:37:22	600	-65	2.0	#57 Radial Vel	2	
0118-0127.BIAS	0	11:50	17:48:49.1	25:37:22	600	-65	2.0	#88 Mass Funct	2	
0128-0137.FLAT	55	12:00	17:48:49.1	25:37:22	600	-65	2.0	#88 Mass Funct	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	0:11	17:48:49.1	25:37:22	600	-65	2.0	#88 Mass Funct	2	
0011.BIAS	0	1:19	17:48:49.1	25:37:22	600	90	2.0	#88 Mass Funct	2	lots of thin clouds
0012-0020.BIAS	0	1:21	17:48:49.1	25:37:22	600	90	2.0	#88 Mass Funct	2	
0021.FLAT	30	1:21	17:48:49.1	25:37:22	600	90	2.0	#88 Mass Funct	2	600-line, 2-sec slit
0022-0040.FLAT	30	1:35	17:48:49.1	25:37:22	600	90	2.0	#88 Mass Funct	2	
0041.Feige34	180	2:43	10:36:41.2	43:21:50	600	100	2.0	#57 Radial Vel	2	tilt=744
0042.Feige34	180	2:46	10:36:41.2	43:21:50	600	100	2.0	#57 Radial Vel	2	
0043.Feige34	180	2:49	10:36:41.2	43:21:50	600	100	2.0	#57 Radial Vel	2	
0044.COMP	10	2:52	10:36:41.2	43:21:50	600	100	2.0	#57 Radial Vel	2	
0045.MF2736	900	2:57	07:34:11.1	+23:57:59	600	43	2.0	#88f Mass Func	2	
0046.MF2736	900	3:12	07:34:11.1	+23:57:59	600	43	2.0	#88f Mass Func	2	
0047.COMP	10	3:28	07:34:11.1	+23:57:59	600	43	2.0	#88f Mass Func	2	
0048.MF7085	1200	3:32	08:40:03.6	+11:00:38	600	43	2.0	#88 Mass Funct	2	pa=20
0049.COMP	10	3:52	08:40:03.6	+11:00:38	600	43	2.0	#88 Mass Funct	2	
0050.MF7085	1200	3:53	08:40:03.6	+11:00:38	600	43	2.0	#88 Mass Funct	2	pa=20
0051.MF7085	1200	4:13	08:40:03.6	+11:00:38	600	43	2.0	#88 Mass Funct	2	
0052.COMP	10	4:33	08:40:03.6	+11:00:38	600	43	2.0	#88 Mass Funct	2	
0053.COMP	10	4:35	09:52:04.0	+40:51:29	600	10	2.0	#88 Mass Funct	2	
0054.MF7131	900	4:36	09:52:04.0	+40:51:29	600	10	2.0	#88 Mass Funct	2	
0055.MF7131	900	4:51	09:52:04.0	+40:51:29	600	10	2.0	#88 Mass Funct	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0056.COMP	10	5:06	09:52:04.0	+40:51:29	600	10	2.0	#88 Mass Funct	2	
0057.MF4038	720	5:08	10:18:54.4	+16:09:20	600	10	2.0	#88 Mass Funct	2	pa=-15
0058.MF4038	720	5:20	10:18:54.4	+16:09:20	600	10	2.0	#88 Mass Funct	2	
0059.COMP	10	5:33	10:18:54.4	+16:09:20	600	10	2.0	#88 Mass Funct	2	
0060.MF7041	480	5:35	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0061.MF7041	480	5:43	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0062.COMP	10	5:52	13:01:31.7	+27:50:50	600	55	2.0	#88 Mass Funct	2	
0063.MF0036	480	5:53	12:58:57.7	31:15:25	600	90	2.0	#88f Mass Func	2	
0064.MF0036	480	6:01	12:58:57.7	31:15:25	600	90	2.0	#88f Mass Func	2	
0065.COMP	10	6:10	12:58:57.7	31:15:25	600	90	2.0	#88f Mass Func	2	
0066.MF4058	480	6:11	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0067.MF4058	480	6:19	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0068.COMP	10	6:28	12:53:52.5	+32:14:30	600	75	2.0	#88f Mass Func	2	
0069.MF7078	480	6:30	11:37:54.7	+47:27:58	600	60	2.0	#88 Mass Funct	2	
0070.MF7078	480	6:38	11:37:54.7	+47:27:58	600	60	2.0	#88 Mass Funct	2	
0071.COMP	10	6:46	11:37:54.7	+47:27:58	600	60	2.0	#88 Mass Funct	2	
0072.COMP	10	6:48	11:37:04.2	+24:05:47	600	85	2.0	#88 Mass Funct	2	
0073.MF7013	900	6:49	11:37:04.2	+24:05:47	600	85	2.0	#88 Mass Funct	2	
0074.MF7013	900	7:05	11:37:04.2	+24:05:47	600	85	2.0	#88 Mass Funct	2	
0075.COMP	10	7:20	11:37:04.2	+24:05:47	600	85	2.0	#88 Mass Funct	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0076.COMP	10	7:24	13:27:27.4	+08:42:47	600	-50	2.0	#88 Mass Funct	2	
0077.MF7047	900	7:25	13:27:27.4	+08:42:47	600	-50	2.0	#88 Mass Funct	2	
0078.MF7047	900	7:40	13:27:27.4	+08:42:47	600	-50	2.0	#88 Mass Funct	2	
0079.MF7047	900	7:56	13:27:27.4	+08:42:47	600	-50	2.0	#88 Mass Funct	2	
0080.COMP	10	8:14	13:27:27.4	+08:42:47	600	-50	2.0	#88 Mass Funct	2	
0081.COMP	10	8:16	13:21:59.1	+26:44:1	600	0	2.0	#88 Mass Funct	2	
0082.MF4067	900	8:17	13:21:59.1	+26:44:1	600	0	2.0	#88 Mass Funct	2	
0083.MF4067	900	8:32	13:21:59.1	+26:44:1	600	0	2.0	#88 Mass Funct	2	
0084.MF4067	900	8:47	13:21:59.1	+26:44:1	600	0	2.0	#88 Mass Funct	2	
0085.COMP	10	9:03	13:21:59.1	+26:44:1	600	0	2.0	#88 Mass Funct	2	
0086.MF7121	480	9:05	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	
0087.MF7121	480	9:13	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	
0088.COMP	10	9:22	14:34:41.7	+47:56:15	600	-65	2.0	#88 Mass Funct	2	
0089.BDp332642	90	9:23	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	
0090.BDp332642	90	9:25	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	
0091.BDp332642	90	9:27	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	
0092.COMP	10	9:29	15:50:03	33:05:49	600	90	2.0	#57 Radial Vel	2	
0093.MF7053	480	9:30	13:56:19.1	+28:32:11	600	45	2.0	#88 Mass Funct	2	the massfunc object selector says
0094.MF7053	480	9:39	13:56:19.1	+28:32:11	600	45	2.0	#88 Mass Funct	2	
0095.COMP	10	9:47	13:56:19.1	+28:32:11	600	45	2.0	#88 Mass Funct	2	No objects are observable. Go to bed.



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0096-0105.FLAT	30	10:06	16:30:00	32:00:00	600	45	2.0	#88 Mass Funct	2	
0106.BIAS	0	10:08	16:30:00	32:00:00	300	90	3.0	#88 Mass Funct	2	300-line, 3-sec slit, combo
0107.COMP	5	10:12	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0108.BDp332642	90	10:16	15:50:03	33:05:49	300	95	3.0	#56 Spectropho	2	
0109.BDp332642	90	10:17	15:50:03	33:05:49	300	95	3.0	#56 Spectropho	2	
0110.COMP	10	10:19	15:50:03	33:05:49	300	95	3.0	#56 Spectropho	2	
0111.N5548	180	10:21	14:17:59.6	+25:08:12	300	71	3.0	#6 AGN Monitor	2	
0112.N5548	180	10:24	14:17:59.6	+25:08:12	300	71	3.0	#6 AGN Monitor	2	
0113.COMP	10	10:27	14:17:59.6	+25:08:12	300	71	3.0	#6 AGN Monitor	2	
0114.N5846	240	10:29	15:03:56.9	+01:47:53	300	71	3.0	#57 Velocity S	4	
0115.COMP	5	10:33	15:03:56.9	+01:47:53	300	71	3.0	#57 Velocity S	4	
0116.2MJ1620412m101306	300	10:34	16:20:41.2	-10:13:06	300	71	3.0	#68 2MASS Reds	4	
0117.COMP	5	10:39	16:20:41.2	-10:13:06	300	71	3.0	#68 2MASS Reds	4	
0118.2MJ1621040m165021	240	10:40	16:21:04.0	-16:50:21	300	71	3.0	#68 2MASS Reds	4	
0119.COMP	5	10:44	16:21:04.0	-16:50:21	300	71	3.0	#68 2MASS Reds	4	
0120.2MJ1625169m091052	240	10:45	16:25:16.9	-09:10:52	300	71	3.0	#68 2MASS Reds	4	
0121.COMP	5	10:49	16:25:16.9	-09:10:52	300	71	3.0	#68 2MASS Reds	4	
0122.2MJ1625489m093941	240	10:50	16:25:48.9	-09:39:41	300	71	3.0	#68 2MASS Reds	4	
0123.COMP	5	10:55	16:25:48.9	-09:39:41	300	71	3.0	#68 2MASS Reds	4	
0124.2MJ1627343m093710	300	10:56	16:27:34.3	-09:37:10	300	71	3.0	#68 2MASS Reds	4	

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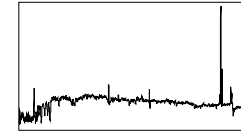
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0125.COMP	5	11:01	16:27:34.3	-09:37:10	300	71	3.0	#68 2MASS Reds	4	
0126.2MJ1628451m090843	720	11:02	16:28:45.1	-09:08:43	300	71	3.0	#68 2MASS Reds	4	
0127.COMP	5	11:14	16:28:45.1	-09:08:43	300	71	3.0	#68 2MASS Reds	4	
0128.sn2002cd	1200	11:18	20:23:34.4	+58:20:47	300	57	3.0	#2 SN Observat	2	
0129.COMP	10	11:38	20:23:34.4	+58:20:47	300	57	3.0	#2 SN Observat	2	
0130.BDp404032	120	11:41	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	2	
0131.BDp404032	60	11:43	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	2	
0132.COMP	10	11:45	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	2	
0133.BIAS	0	11:47	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	2	clear @ dawn
0134-0142.BIAS	0	11:49	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	2	
0143-0152.FLAT	16	11:54	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	2	
0153-0162.BIAS	0	11:56	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	4	
0163-0172.FLAT	8	11:59	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	4	
0173-0182.DARK	900	14:17	20:06:40	41:06:15	300	80	3.0	#56 Spectropho	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001.DARK	900	20:31	03:13:05.0	31:30:02	300	80	3.0	#56 Spectropho	4	
0002.DARK	900	20:46	03:28:16.0	31:30:03	300	80	3.0	#56 Spectropho	4	
0003.DARK	900	21:01	03:43:27.0	31:30:04	300	80	3.0	#56 Spectropho	4	
0004.DARK	900	21:16	03:58:34.0	31:30:06	300	80	3.0	#56 Spectropho	4	
0005.DARK	900	21:31	04:13:45.0	31:30:08	300	80	3.0	#56 Spectropho	4	
0006.DARK	900	21:46	04:28:52.0	31:30:09	300	80	3.0	#56 Spectropho	4	
0007.DARK	900	22:01	04:44:03.0	31:30:11	300	80	3.0	#56 Spectropho	4	
0008.DARK	900	22:16	04:59:10.0	31:30:13	300	80	3.0	#56 Spectropho	4	
0009.DARK	900	1:51	08:34:39.0	31:30:45	300	80	3.0	#56 Spectropho	4	
0010.DARK	900	2:07	08:49:50.0	31:30:47	300	80	3.0	#56 Spectropho	4	
0011-0020.BIAS	0	2:23	08:51:09.0	31:30:47	300	80	3.0	#56 Spectropho	4	
0021-0022.FLAT	6	2:24	08:52:05.0	31:30:47	300	80	3.0	#56 Spectropho	4	
0023-0030.FLAT	6	2:25	08:53:49.0	31:30:48	300	80	3.0	#56 Spectropho	4	
0031-0040.BIAS	0	2:29	08:57:17.0	31:30:48	300	90	3.0	#56 Spectropho	2	
0041-0050.FLAT	12	2:35	09:03:08.0	31:30:49	300	90	3.0	#56 Spectropho	2	
0051.Feige34	120	2:46	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0052.COMP	5	2:48	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0053.Feige34	120	2:49	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0054.COMP	12	2:52	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0055.Feige34	120	2:53	10:36:41.2	43:21:50	300	62	3.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0056.COMP	12	2:56	10:36:41.2	43:21:50	300	62	3.0	#56 Spectropho	2	
0057.BGGem	300	2:59	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0058.COMP	12	3:05	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0059.BGGem	1200	3:05	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0060.COMP	12	3:26	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0061.sn2002bx	1200	3:32	09:19:54.9	+37:12:08	300	-55	3.0	#2 SN Observat	2	
0062.COMP	12	3:52	09:19:54.9	+37:12:08	300	-55	3.0	#2 SN Observat	2	
0063.sn2002bo	1200	3:55	10:18:06.5	+21:49:41	300	5	3.0	#2 SN Observat	2	
0064.COMP	12	4:15	10:18:06.5	+21:49:41	300	5	3.0	#2 SN Observat	2	
0065.MRK421	300	4:17	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0066.MRK421	300	4:22	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0067.MRK421	300	4:28	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0068.COMP	12	4:33	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0069.MRK110	600	4:35	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	2	
0070.COMP	12	4:46	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	2	
0071.N3227	90	4:48	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0072.N3227	90	4:49	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0073.N3227	90	4:51	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0074.COMP	12	4:53	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0075.N4051	120	4:55	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	

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0076.N4051	120	4:57	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0077.N4051	120	4:59	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0078.COMP	12	5:02	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0079.N4151	30	5:03	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0080.N4151	30	5:03	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0081.N4151	30	5:04	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0082.COMP	12	5:05	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0083.FLAT	40	5:11	12:10:32.6	+39:24:21	600	90	2.0	#122 Star Stre	4	600L, 2 arcsec, tilt=430
0084-0092.FLAT	40	5:19	12:10:32.6	+39:24:21	600	90	2.0	#122 Star Stre	4	
0093.Feige34	120	5:22	10:36:41.2	43:21:50	600	90	2.0	#56 Spectropho	4	
0094.COMP	10	5:24	10:36:41.2	43:21:50	600	90	2.0	#56 Spectropho	4	
0095.hs1010	900	5:28	14:01:25.7	28:21:07	600	90	2.0	#122 Halo Star	4	
0096.COMP	10	5:43	14:01:25.7	28:21:07	600	90	2.0	#122 Halo Star	4	
0097.hs1012	1200	5:45	14:02:31.2	30:40:14	600	90	2.0	#122 Halo Star	4	
0098.COMP	10	6:05	14:02:31.2	30:40:14	600	90	2.0	#122 Halo Star	4	
0099.hs1010	1200	6:07	14:01:25.7	28:21:07	600	90	2.0	#122 Halo Star	4	2nd attempt....
0100.COMP	10	6:27	14:01:25.7	28:21:07	600	90	2.0	#122 Halo Star	4	
0101.hs1013	480	6:30	14:03:15.0	27:46:35	600	90	2.0	#122 Halo Star	4	
0102.COMP	10	6:39	14:03:15.0	27:46:35	600	90	2.0	#122 Halo Star	4	
0103.hs1011	900	6:40	14:01:47.7	28:57:00	600	90	2.0	#122 Halo Star	4	

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0104.COMP	10	6:56	14:01:47.7	28:57:00	600	90	2.0	#122 Halo Star	4	
0105.hs1014	1200	6:57	14:04:03.2	29:54:15	600	90	2.0	#122 Halo Star	4	
0106.COMP	12	7:17	14:04:03.2	29:54:15	600	90	2.0	#122 Halo Star	4	
0107.hs1015	900	7:18	14:06:20.3	28:17:46	600	90	2.0	#122 Halo Star	4	
0108.COMP	10	7:34	14:06:20.3	28:17:46	600	90	2.0	#122 Halo Star	4	
0109.hs1016	1200	7:36	14:09:25.9	30:40:44	600	90	2.0	#122 Halo Star	4	
0110.COMP	10	7:56	14:09:25.9	30:40:44	600	90	2.0	#122 Halo Star	4	
0111.hs1017	1200	7:57	14:09:53.7	30:01:15	600	90	2.0	#122 Halo Star	4	
0112.COMP	10	8:17	14:09:53.7	30:01:15	600	90	2.0	#122 Halo Star	4	
0113.hs1018	780	8:18	14:12:37.7	29:12:44	600	90	2.0	#122 Halo Star	4	
0114.COMP	10	8:32	14:12:37.7	29:12:44	600	90	2.0	#122 Halo Star	4	
0115.hs1019	1200	8:41	14:13:36.0	28:14:18	600	90	2.0	#122 Halo Star	4	
0116.hs1019	1200	9:01	14:13:36.0	28:14:18	600	90	2.0	#122 Halo Star	4	
0117.COMP	10	9:21	14:13:36.0	28:14:18	600	90	2.0	#122 Halo Star	4	
0118.hs1020	420	9:23	14:15:01.1	29:51:07	600	90	2.0	#122 Halo Star	4	
0119.COMP	10	9:30	14:15:01.1	29:51:07	600	90	2.0	#122 Halo Star	4	
0120.hs1021	420	9:31	14:18:14.2	27:46:30	600	90	2.0	#122 Halo Star	4	
0121.COMP	10	9:39	14:18:14.2	27:46:30	600	90	2.0	#122 Halo Star	4	
0122.sn2002bz	1200	9:46	14:24:40.5	+26:37:34	300	71	3.0	#2 SN Observat	2	normal setup
0123.COMP	12	10:06	14:24:40.5	+26:37:34	300	71	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0124.BDp332642	90	10:09	15:50:03	33:05:49	300	95	3.0	#56 Spectropho	2	
0125.COMP	12	10:11	15:50:03	33:05:49	300	95	3.0	#56 Spectropho	2	
0126.FSVSJ183351	1200	10:14	18:33:51.9	36:23:37	300	90	3.0	#131 FSVS	2	
0127.COMP	12	10:35	18:33:51.9	36:23:37	300	90	3.0	#131 FSVS	2	
0128.FSVSJ183120	1200	10:40	18:31:20.6	35:19:48	300	90	3.0	#131 FSVS	2	
0129.COMP	12	11:01	18:31:20.6	35:19:48	300	90	3.0	#131 FSVS	2	
0130.a2199s_037	420	11:04	16:22:29.3	35:39:20	300	90	3.0	#64 Cluster In	2	
0131.COMP	12	11:11	16:22:29.3	35:39:20	300	90	3.0	#64 Cluster In	2	
0132.a2199s_038	480	11:13	16:22:34.9	38:22:01	300	90	3.0	#64 Cluster In	2	
0133.COMP	12	11:21	16:22:34.9	38:22:01	300	90	3.0	#64 Cluster In	2	
0134.a2199s_039	210	11:22	16:22:38.8	43:27:52	300	90	3.0	#64 Cluster In	2	
0135.COMP	12	11:26	16:22:38.8	43:27:52	300	90	3.0	#64 Cluster In	2	
0136.a2199s_040	720	11:27	16:22:47.1	37:33:16	300	90	3.0	#64 Cluster In	2	
0137.COMP	10	11:40	16:22:47.1	37:33:16	300	90	3.0	#64 Cluster In	2	
0138.a2199s_041	480	11:41	16:22:55.5	39:47:30	300	90	3.0	#64 Cluster In	2	
0139.COMP	12	11:49	16:22:55.5	39:47:30	300	90	3.0	#64 Cluster In	2	
0140.a2199s_042	240	11:52	16:23:07.9	35:50:16	300	90	3.0	#64 Cluster In	2	
0141.COMP	12	11:56	16:23:07.9	35:50:16	300	90	3.0	#64 Cluster In	2	
0142.BDp332642	90	11:59	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0143.COMP	12	12:01	15:50:03	33:05:49	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>
0144.BDp332642	90	12:02	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0145.COMP	5	12:04	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0146.N5866	240	12:07	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0147.COMP	5	12:12	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0148-0152.sky	2	12:27	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0153.COMP	5	12:27	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0154-0163.BIAS	0	12:30	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0164-0173.FLAT	6	12:32	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0174-0183.BIAS	0	12:34	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0184-0193.FLAT	12	12:39	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0194-0203.DARK	900	14:57	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	



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0001-0010.DARK	900	1:32	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0011-0020.BIAS	0	1:51	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0021-0030.FLAT	6	1:54	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0031-0040.BIAS	0	1:56	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0041-0050.FLAT	12	2:00	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0051-0055.sky	2	2:19	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:20	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0057.Feige34	90	2:37	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0058.Feige34	90	2:38	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0059.COMP	5	2:40	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0060.Feige34	90	2:41	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0061.Feige34	90	2:43	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0062.COMP	12	2:45	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0063.Feige34	90	2:46	10:36:41.2	43:21:50	300	61	3.0	#56 Spectropho	2	
0064.Feige34	90	2:48	10:36:41.2	43:21:50	300	61	3.0	#56 Spectropho	2	
0065.COMP	12	2:50	10:36:41.2	43:21:50	300	61	3.0	#56 Spectropho	2	
0066.sn2002bo	1200	2:56	10:18:06.5	+21:49:41	300	-46	3.0	#2 SN Observat	2	
0067.COMP	12	3:17	10:18:06.5	+21:49:41	300	-46	3.0	#2 SN Observat	2	
0068.BGGem	300	3:21	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0069.COMP	12	3:26	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	

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0070.BGGem	780	3:49	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	rash of telescope runaways...
0071.COMP	12	4:03	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0072.MRK421	300	4:05	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0073.MRK421	300	4:10	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0074.MRK421	300	4:15	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0075.COMP	12	4:21	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0076.FLAT	9	4:27	11:04:27.4	+38:12:32	300	90	5.0	#132 HST FGS R	2	300L, 5 arcsec, tilt=610
0077-0085.FLAT	9	4:30	11:04:27.4	+38:12:32	300	90	5.0	#132 HST FGS R	2	
0086.Feige34	150	4:33	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0087.Feige34	150	4:36	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0088.Feige34	150	4:38	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0089.COMP	9	4:42	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0090.Feige34	90	4:42	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0091.Feige34	90	4:44	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0092.Feige34	90	4:46	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0093.COMP	9	4:48	10:36:41.2	43:21:50	300	90	5.0	#56 Spectropho	2	
0094.AMREF2	480	4:52	12:34:58.3	+37:33:52	300	90	5.0	#132 HSTFGS Re	2	
0095.AMREF2	480	5:00	12:34:58.3	+37:33:52	300	90	5.0	#132 HSTFGS Re	2	
0096.COMP	9	5:09	12:34:58.3	+37:33:52	300	90	5.0	#132 HSTFGS Re	2	
0097.CRBOO	300	5:11	13:48:55.3	+07:57:35	300	90	5.0	#132 HSTFGS Re	2	

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0098.CRBOO	300	5:16	13:48:55.3	+07:57:35	300	90	5.0	#132 HSTFGS Re	2	
0099.CRBOO	300	5:21	13:48:55.3	+07:57:35	300	90	5.0	#132 HSTFGS Re	2	
0100.COMP	9	5:27	13:48:55.3	+07:57:35	300	90	5.0	#132 HSTFGS Re	2	
0101.CRREF1	600	5:28	13:49:07.9	+07:58:35	300	90	5.0	#132 HSTFGS Re	2	
0102.CRREF1	600	5:38	13:49:07.9	+07:58:35	300	90	5.0	#132 HSTFGS Re	2	
0103.COMP	9	5:49	13:49:07.9	+07:58:35	300	90	5.0	#132 HSTFGS Re	2	
0104.CRREF2	90	5:50	13:49:11.5	+07:57:51	300	90	5.0	#132 HSTFGS Re	2	
0105.CRREF2	90	5:51	13:49:11.5	+07:57:51	300	90	5.0	#132 HSTFGS Re	2	
0106.CRREF2	90	5:53	13:49:11.5	+07:57:51	300	90	5.0	#132 HSTFGS Re	2	
0107.COMP	9	5:55	13:49:11.5	+07:57:51	300	90	5.0	#132 HSTFGS Re	2	
0108.CRREF3	900	5:57	13:48:53.4	+07:56:47	300	90	5.0	#132 HSTFGS Re	2	
0109.CRREF3	900	6:12	13:48:53.4	+07:56:47	300	90	5.0	#132 HSTFGS Re	2	
0110.COMP	9	6:28	13:48:53.4	+07:56:47	300	90	5.0	#132 HSTFGS Re	2	
0111.CRREF4	900	6:30	13:48:49.5	+07:57:43	300	100	5.0	#132 HSTFGS Re	2	
0112.CRREF4	900	6:45	13:48:49.5	+07:57:43	300	100	5.0	#132 HSTFGS Re	2	
0113.COMP	9	7:01	13:48:49.5	+07:57:43	300	100	5.0	#132 HSTFGS Re	2	
0114.CRREF5	3	7:02	13:48:34.7	+07:57:36	300	90	5.0	#132 HSTFGS Re	2	
0115.COMP	9	7:03	13:48:34.7	+07:57:36	300	90	5.0	#132 HSTFGS Re	2	
0116.CRREF5	2	7:04	13:48:34.7	+07:57:36	300	90	5.0	#132 HSTFGS Re	2	
0117.CRREF5	2	7:04	13:48:34.7	+07:57:36	300	90	5.0	#132 HSTFGS Re	2	

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0118.CRREF5	2	7:04	13:48:34.7	+07:57:36	300	90	5.0	#132 HSTFGS Re	2	
0119.COMP	9	7:05	13:48:34.7	+07:57:36	300	90	5.0	#132 HSTFGS Re	2	
0120.CRREF6	300	7:08	13:48:38.4	+07:57:03	300	90	5.0	#132 HSTFGS Re	2	
0121.CRREF6	300	7:13	13:48:38.4	+07:57:03	300	90	5.0	#132 HSTFGS Re	2	
0122.CRREF6	300	7:18	13:48:38.4	+07:57:03	300	90	5.0	#132 HSTFGS Re	2	
0123.COMP	9	7:24	13:48:38.4	+07:57:03	300	90	5.0	#132 HSTFGS Re	2	
0124.CRREF7	150	7:26	13:48:25.8	+07:57:04	300	90	5.0	#132 HSTFGS Re	2	
0125.CRREF7	150	7:29	13:48:25.8	+07:57:04	300	90	5.0	#132 HSTFGS Re	2	
0126.CRREF7	150	7:31	13:48:25.8	+07:57:04	300	90	5.0	#132 HSTFGS Re	2	
0127.COMP	9	7:34	13:48:25.8	+07:57:04	300	90	5.0	#132 HSTFGS Re	2	
0128.GPCOM	600	7:37	13:05:43.4	+18:01:02	300	90	5.0	#132 HSTFGS Re	2	
0129.GPCOM	600	7:47	13:05:43.4	+18:01:02	300	90	5.0	#132 HSTFGS Re	2	
0130.COMP	9	7:58	13:05:43.4	+18:01:02	300	90	5.0	#132 HSTFGS Re	2	
0131.GPREF1and4	360	8:17	13:05:36.2	+18:01:09	300	90	5.0	#132 HSTFGS Re	2	1 is on row 63
0132.GPREF1and4	360	8:24	13:05:36.2	+18:01:09	300	90	5.0	#132 HSTFGS Re	2	4 is on row 85
0133.GPREF1and4	360	8:30	13:05:36.2	+18:01:09	300	-56	5.0	#132 HSTFGS Re	2	
0134.COMP	9	8:36	13:05:36.2	+18:01:09	300	-56	5.0	#132 HSTFGS Re	2	
0135.GPREF2	300	8:39	13:05:34.0	+18:00:15	300	90	5.0	#132 HSTFGS Re	2	
0136.GPREF2	300	8:44	13:05:34.0	+18:00:15	300	90	5.0	#132 HSTFGS Re	2	
0137.GPREF2	300	8:50	13:05:34.0	+18:00:15	300	90	5.0	#132 HSTFGS Re	2	

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0138.COMP	9	8:55	13:05:34.0	+18:00:15	300	90	5.0	#132 HSTFGS Re	2	
0139.GPREF3	300	8:56	13:05:39.4	+18:02:44	300	90	5.0	#132 HSTFGS Re	2	
0140.GPREF3	300	9:01	13:05:39.4	+18:02:44	300	90	5.0	#132 HSTFGS Re	2	
0141.GPREF3	300	9:07	13:05:39.4	+18:02:44	300	90	5.0	#132 HSTFGS Re	2	
0142.COMP	9	9:12	13:05:39.4	+18:02:44	300	90	5.0	#132 HSTFGS Re	2	
0143.GPREF5	480	9:13	13:05:45.8	+17:58:48	300	90	5.0	#132 HSTFGS Re	2	
0144.GPREF5	480	9:22	13:05:45.8	+17:58:48	300	90	5.0	#132 HSTFGS Re	2	
0145.COMP	9	9:31	13:05:45.8	+17:58:48	300	90	5.0	#132 HSTFGS Re	2	
0146.BDp332642	120	9:33	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0147.BDp332642	120	9:35	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0148.BDp332642	120	9:37	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0149.COMP	9	9:40	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0150.BDp332642	60	9:41	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0151.BDp332642	60	9:42	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0152.BDp332642	60	9:43	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0153.COMP	9	9:45	15:50:03	33:05:49	300	90	5.0	#132 HSTFGS Re	2	
0154.BDp332642	90	9:48	15:50:03	33:05:49	300	100	3.0	#132 HSTFGS Re	2	normal setup
0155.BDp332642	90	9:50	15:50:03	33:05:49	300	100	3.0	#132 HSTFGS Re	2	
0156.COMP	12	9:52	15:50:03	33:05:49	300	100	3.0	#132 HSTFGS Re	2	
0157.snu10301	1200	9:54	16:15:37.9	31:19:17	300	79	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0158.COMP	12	10:15	16:15:37.9	31:19:17	300	79	3.0	#2 SN Observat	2	
0159.a2199s_043	300	10:18	16:23:16.5	39:55:11	300	90	3.0	#64 Cluster In	2	
0160.COMP	12	10:24	16:23:16.5	39:55:11	300	90	3.0	#64 Cluster In	2	
0161.a2199s_044	480	10:25	16:23:21.0	37:15:30	300	90	3.0	#64 Cluster In	2	
0162.COMP	12	10:33	16:23:21.0	37:15:30	300	90	3.0	#64 Cluster In	2	
0163.a2199s_045	540	10:34	16:23:22.8	41:39:04	300	90	3.0	#64 Cluster In	2	
0164.COMP	12	10:44	16:23:22.8	41:39:04	300	90	3.0	#64 Cluster In	2	
0165.a2199s_046	240	10:45	16:23:27.7	41:42:22	300	90	3.0	#64 Cluster In	2	
0166.COMP	12	10:49	16:23:27.7	41:42:22	300	90	3.0	#64 Cluster In	2	
0167.a2199s_047	360	10:51	16:23:32.7	39:07:15	300	90	3.0	#64 Cluster In	2	row=72
0168.COMP	12	10:58	16:23:32.7	39:07:15	300	90	3.0	#64 Cluster In	2	
0169.a2199s_048	1020	11:00	16:23:37.9	39:12:12	300	90	3.0	#64 Cluster In	2	
0170.COMP	12	11:18	16:23:37.9	39:12:12	300	90	3.0	#64 Cluster In	2	
0171.a2199s_049	300	11:19	16:23:38.6	35:00:40	300	90	3.0	#64 Cluster In	2	
0172.COMP	12	11:25	16:23:38.6	35:00:40	300	90	3.0	#64 Cluster In	2	
0173.a2199s_052	270	11:26	16:25:26.0	39:52:14	300	90	3.0	#64 Cluster In	2	
0174.COMP	12	11:31	16:25:26.0	39:52:14	300	90	3.0	#64 Cluster In	2	
0175.sn2002cd	1200	11:37	20:23:34.4	+58:20:47	300	54	3.0	#2 SN Observat	2	
0176.COMP	12	11:58	20:23:34.4	+58:20:47	300	54	3.0	#2 SN Observat	2	
0177.BDp332642	90	12:01	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	



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0178.COMP	12	12:03	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0179-0188.BIAS	0	12:08	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0189-0198.FLAT	6	12:10	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0199-0208.BIAS	0	12:13	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0209-0218.FLAT	12	12:17	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0219-0228.DARK	900	14:37	15:50:03	33:05:49	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.DARK	900	1:11	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0011-0020.BIAS	0	2:06	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0021-0030.FLAT	6	2:09	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0031-0040.BIAS	0	2:14	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0041-0050.FLAT	12	2:18	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0051-0055.sky	2	2:22	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:23	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0057.Hiltner600	50	2:53	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0058.Hiltner600	50	2:54	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0059.COMP	5	2:55	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0060.Hiltner600	50	2:56	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0061.Hiltner600	50	2:57	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0062.COMP	12	2:58	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0063.Hiltner600	50	3:01	06:42:37.2	02:11:25	300	49	3.0	#56 Spectropho	2	
0064.Hiltner600	50	3:02	06:42:37.2	02:11:25	300	49	3.0	#56 Spectropho	2	
0065.COMP	12	3:03	06:42:37.2	02:11:25	300	49	3.0	#56 Spectropho	2	
0066.Akn120	180	3:05	05:13:38.0	-00:12:15	300	49	3.0	#6 AGN Monitor	2	
0067.COMP	12	3:09	05:13:38.0	-00:12:15	300	49	3.0	#6 AGN Monitor	2	
0068.BGGem	300	3:10	6:03:31	27:41:50	300	49	3.0	#100 BGGem	2	
0069.COMP	12	3:16	6:03:31	27:41:50	300	49	3.0	#100 BGGem	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0070.BGGem	1200	3:16	6:03:31	27:41:50	300	49	3.0	#100 BGGem	2	
0071.COMP	12	3:37	6:03:31	27:41:50	300	49	3.0	#100 BGGem	2	
0072.sn2002bx	1200	3:40	09:19:54.9	+37:12:08	300	110	3.0	#2 SN Observat	2	
0073.COMP	12	4:01	09:19:54.9	+37:12:08	300	110	3.0	#2 SN Observat	2	
0074.sn2002bo	1200	4:06	10:18:06.5	+21:49:41	300	23	3.0	#2 SN Observat	2	
0075.COMP	12	4:26	10:18:06.5	+21:49:41	300	23	3.0	#2 SN Observat	2	
0076.MRK421	360	4:28	11:04:27.4	+38:12:32	300	23	3.0	#133 MRK421	2	
0077.MRK421	360	4:34	11:04:27.4	+38:12:32	300	23	3.0	#133 MRK421	2	
0078.MRK421	360	4:41	11:04:27.4	+38:12:32	300	23	3.0	#133 MRK421	2	
0079.COMP	12	4:47	11:04:27.4	+38:12:32	300	23	3.0	#133 MRK421	2	
0080.N5548	120	4:57	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0081.N5548	120	4:59	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0082.N5548	120	5:01	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0083.N5548	120	5:03	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0084.COMP	12	5:06	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	wait out some clouds
0085.N5548	90	7:14	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0086.N5548	90	7:15	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0087.N5548	90	7:17	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0088.COMP	12	7:19	14:17:59.6	+25:08:12	300	23	3.0	#6 AGN Monitor	2	
0089.N4051	120	7:20	12:03:09.7	+44:31:53	300	23	3.0	#6 AGN Monitor	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0090.N4051	120	7:23	12:03:09.7	+44:31:53	300	23	3.0	#6 AGN Monitor	2	
0091.N4051	120	7:25	12:03:09.7	+44:31:53	300	23	3.0	#6 AGN Monitor	2	
0092.COMP	12	7:27	12:03:09.7	+44:31:53	300	23	3.0	#6 AGN Monitor	2	
0093.N4151	30	7:28	12:10:32.6	+39:24:21	300	23	3.0	#6 AGN Monitor	2	
0094.N4151	30	7:29	12:10:32.6	+39:24:21	300	23	3.0	#6 AGN Monitor	2	
0095.N4151	30	7:30	12:10:32.6	+39:24:21	300	23	3.0	#6 AGN Monitor	2	
0096.COMP	12	7:31	12:10:32.6	+39:24:21	300	23	3.0	#6 AGN Monitor	2	
0097.FLAT	40	7:58	12:23	50.0	39:1	600	90	2.0	#122	Star Stre
0098-0106.FLAT	40	8:05	12:23	50.0	39:1	600	90	2.0	#122	Star Stre
0107.BDp332642	120	8:08	15:50:03	33:05:49	600	90	2.0	#122 Halo Star	4	
0108.COMP	10	8:11	15:50:03	33:05:49	600	90	2.0	#122 Halo Star	4	
0109.hs1022	1200	8:16	14:18:19.7	29:37:52	600	90	2.0	#122 Halo Star	4	too faint
0110.COMP	10	8:37	14:18:19.7	29:37:52	600	90	2.0	#122 Halo Star	4	
0111.hs1023	480	8:38	14:18:44.2	30:23:03	600	90	2.0	#122 Halo Star	4	
0112.COMP	10	8:46	14:18:44.2	30:23:03	600	90	2.0	#122 Halo Star	4	
0113.hs1024	840	8:47	14:20:30.9	28:01:41	600	90	2.0	#122 Halo Star	4	
0114.COMP	12	9:02	14:20:30.9	28:01:41	600	90	2.0	#122 Halo Star	4	
0115.hs1025	840	9:02	14:21:07.6	28:15:03	600	90	2.0	#122 Halo Star	4	
0116.hs1025	840	9:17	14:21:07.6	28:15:03	600	90	2.0	#122 Halo Star	4	
0117.COMP	10	9:32	14:21:07.6	28:15:03	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
0118.hs1026	1200	9:33	14:22:32.9	29:58:46	600	90	2.0	#122 Halo Star	4	
0119.COMP	10	9:53	14:22:32.9	29:58:46	600	90	2.0	#122 Halo Star	4	
0120.hs1027	600	9:54	14:24:02.3	30:38:26	600	90	2.0	#122 Halo Star	4	
0121.COMP	10	10:05	14:24:02.3	30:38:26	600	90	2.0	#122 Halo Star	4	
0122.hs1028	720	10:06	14:24:21.4	29:26:29	600	90	2.0	#122 Halo Star	4	
0123.COMP	10	10:18	14:24:21.4	29:26:29	600	90	2.0	#122 Halo Star	4	
0124.hs1029	360	10:20	14:26:36.2	28:22:46	600	90	2.0	#122 Halo Star	4	
0125.COMP	10	10:27	14:26:36.2	28:22:46	600	90	2.0	#122 Halo Star	4	
0126.hs1030	1200	10:27	14:26:53.6	28:53:29	600	90	2.0	#122 Halo Star	4	
0127.COMP	10	10:48	14:26:53.6	28:53:29	600	90	2.0	#122 Halo Star	4	
0128.hs1031	1200	10:50	14:29:57.4	29:29:48	600	90	2.0	#122 Halo Star	4	
0129.COMP	10	11:10	14:29:57.4	29:29:48	600	90	2.0	#122 Halo Star	4	
0130.HDp283402	3	11:14	19:35:00.3	29:05:14	600	90	2.0	#122 Halo Star	4	
0131.HDp283402	5	11:15	19:35:00.3	29:05:14	600	90	2.0	#122 Halo Star	4	
0132.HDp283402	5	11:15	19:35:00.3	29:05:14	600	90	2.0	#122 Halo Star	4	
0133.HDp283402	5	11:15	19:35:00.3	29:05:14	600	90	2.0	#122 Halo Star	4	
0134.COMP	10	11:16	19:35:00.3	29:05:14	600	90	2.0	#122 Halo Star	4	
0135.HD186293	3	11:17	19:43:05.4	9:29:21	600	90	2.0	#122 Halo Star	4	
0136.HD186293	3	11:17	19:43:05.4	9:29:21	600	90	2.0	#122 Halo Star	4	
0137.HD186293	3	11:17	19:43:05.4	9:29:21	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
0138.COMP	10	11:18	19:43:05.4	9:29:21	600	90	2.0	#122 Halo Star	4	
0139.HD186568	2	11:19	19:43:51.4	34:09:45	600	90	2.0	#122 Halo Star	4	
0140.HD186568	2	11:19	19:43:51.4	34:09:45	600	90	2.0	#122 Halo Star	4	
0141.HD186568	2	11:19	19:43:51.4	34:09:45	600	90	2.0	#122 Halo Star	4	
0142.COMP	10	11:20	19:43:51.4	34:09:45	600	90	2.0	#122 Halo Star	4	
0143.HD332757	10	11:21	19:46:58.3	28:02:42	600	90	2.0	#122 Halo Star	4	
0144.HD332757	10	11:21	19:46:58.3	28:02:42	600	90	2.0	#122 Halo Star	4	
0145.HD332757	10	11:21	19:46:58.3	28:02:42	600	90	2.0	#122 Halo Star	4	
0146.COMP	10	11:22	19:46:58.3	28:02:42	600	90	2.0	#122 Halo Star	4	
0147.HD187299	7	11:23	19:48:21.5	25:00:34	600	90	2.0	#122 Halo Star	4	
0148.HD187299	7	11:23	19:48:21.5	25:00:34	600	90	2.0	#122 Halo Star	4	
0149.HD187299	7	11:23	19:48:21.5	25:00:34	600	90	2.0	#122 Halo Star	4	
0150.COMP	10	11:24	19:48:21.5	25:00:34	600	90	2.0	#122 Halo Star	4	
0151.HD187428	8	11:25	19:49:11.6	19:47:41	600	90	2.0	#122 Halo Star	4	
0152.HD187428	8	11:25	19:49:11.6	19:47:41	600	90	2.0	#122 Halo Star	4	
0153.HD187428	8	11:25	19:49:11.6	19:47:41	600	90	2.0	#122 Halo Star	4	
0154.COMP	10	11:26	19:49:11.6	19:47:41	600	90	2.0	#122 Halo Star	4	
0155.HD187691	1	11:27	19:51:01.6	10:24:56	600	90	2.0	#122 Halo Star	4	
0156.HD187691	1	11:27	19:51:01.6	10:24:56	600	90	2.0	#122 Halo Star	4	
0157.HD187691	1	11:27	19:51:01.6	10:24:56	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
0158.COMP	10	11:27	19:51:01.6	10:24:56	600	90	2.0	#122 Halo Star	4	
0159.HD190007	7	11:28	20:02:47.0	3:19:34	600	90	2.0	#122 Halo Star	4	
0160.HD190007	7	11:29	20:02:47.0	3:19:34	600	90	2.0	#122 Halo Star	4	
0161.HD190007	7	11:29	20:02:47.0	3:19:34	600	90	2.0	#122 Halo Star	4	
0162.COMP	10	11:29	20:02:47.0	3:19:34	600	90	2.0	#122 Halo Star	4	
0163.HD190360	2	11:31	20:03:37.4	29:53:48	600	90	2.0	#122 Halo Star	4	
0164.HD190360	2	11:31	20:03:37.4	29:53:48	600	90	2.0	#122 Halo Star	4	
0165.HD190360	2	11:31	20:03:37.4	29:53:48	600	90	2.0	#122 Halo Star	4	
0166.COMP	10	11:32	20:03:37.4	29:53:48	600	90	2.0	#122 Halo Star	4	
0167.HD190404	5	11:33	20:03:52.1	23:20:26	600	90	2.0	#122 Halo Star	4	
0168.HD190404	5	11:33	20:03:52.1	23:20:26	600	90	2.0	#122 Halo Star	4	
0169.HD190404	5	11:33	20:03:52.1	23:20:26	600	90	2.0	#122 Halo Star	4	
0170.COMP	10	11:33	20:03:52.1	23:20:26	600	90	2.0	#122 Halo Star	4	
0171.sn2002cd	1200	11:39	20:23:34.4	+58:20:47	300	52	3.0	#2 SN Observat	2	normal setup
0172.COMP	12	12:00	20:23:34.4	+58:20:47	300	52	3.0	#2 SN Observat	2	
0173.BDp332642	60	12:02	15:50:03	33:05:49	300	80	3.0	#56 Spectropho	2	
0174.BDp332642	60	12:03	15:50:03	33:05:49	300	80	3.0	#56 Spectropho	2	
0175.COMP	12	12:05	15:50:03	33:05:49	300	80	3.0	#56 Spectropho	2	
0176-0185.BIAS	0	12:17	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0186-0195.FLAT	6	12:20	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	

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0196-0205.BIAS	0	12:23	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0206-0215.FLAT	12	12:27	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0216-0225.DARK	900	14:49	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	