

UT Date 2002-02-20 Observers M CalkinsColl. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0008.DARK	900	1:04	15:50:03	33:05:49	300	90	3.0	none	4	
0009-0018.BIAS	0	1:20	15:50:03	33:05:49	300	90	3.0	none	4	
0019-0028.FLAT	6	1:24	15:50:03	33:05:49	300	90	3.0	none	4	
0029-0038.BIAS	0	1:27	15:50:03	33:05:49	300	90	3.0	none	2	
0039-0048.FLAT	12	1:31	15:50:03	33:05:49	300	90	3.0	none	2	
0049-0056.sky	2	1:37	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0058.COMP	5	1:37	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0059.Hiltner600	60	1:54	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0060.Hiltner600	60	1:55	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0061.COMP	5	1:57	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0062.Hiltner600	60	1:58	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0063.Hiltner600	60	1:59	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0064.COMP	12	2:00	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	2	
0065.Hiltner600	60	2:02	06:42:37.2	02:11:25	300	31	3.0	#56 Spectropho	2	
0066.Hiltner600	60	2:04	06:42:37.2	02:11:25	300	31	3.0	#56 Spectropho	2	
0067.COMP	12	2:05	06:42:37.2	02:11:25	300	31	3.0	#56 Spectropho	2	
0068.NGC1700	240	2:07	04:56:58.1	-04:52:22	300	90	3.0	#57 Velocity S	2	
0069.COMP	12	2:12	04:56:58.1	-04:52:22	300	90	3.0	#57 Velocity S	2	
0070.sn2002ap	360	2:15	01:36:23.8	+15:45:13	300	61	3.0	#2 SN Observat	2	
0071.sn2002ap	360	2:21	01:36:23.8	+15:45:13	300	61	3.0	#2 SN Observat	2	

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0072.COMP	12	2:28	01:36:23.8	+15:45:13	300	61	3.0	#2 SN Observat	2	
0073.Akn120	180	2:30	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	
0074.COMP	12	2:34	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	
0075.BGGem	300	2:36	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0076.COMP	12	2:42	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0077.BGGem	1200	2:44	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0078.COMP	12	3:05	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0079.FSVSJ071436	1200	3:08	07:14:36.0	23:01:23	300	97	3.0	#131 FSVS	2	
0080.COMP	12	3:29	07:14:36.0	23:01:23	300	97	3.0	#131 FSVS	2	
0081.FLAT	45	3:37	07:14:36.0	23:01:23	600	90	2.0	#10 M67 stars	2	600L 2arcsec tilt=430 binby2
0082-0090.FLAT	45	3:45	07:14:36.0	23:01:23	600	90	2.0	#10 M67 stars	2	
0091.Hiltner600	120	3:50	06:42:37.2	02:11:25	600	-8	2.0	#56 Spectropho	2	
0092.COMP	30	3:53	06:42:37.2	02:11:25	600	-8	2.0	#56 Spectropho	2	
0093.m67_6488	360	3:59	8:51:23.7	11:49:49	600	-52	2.0	#10 M67 stars	2	
0094.COMP	30	4:06	8:51:23.7	11:49:49	600	-52	2.0	#10 M67 stars	2	
0095.m67_6172	600	4:09	8:51:50.6	11:36:33	600	-51	2.0	#10 M67 stars	2	
0096.m67_6172	600	4:19	8:51:50.6	11:36:33	600	-51	2.0	#10 M67 stars	2	
0097.COMP	30	4:30	8:51:50.6	11:36:33	600	-51	2.0	#10 M67 stars	2	
0098.m67_6484	360	4:33	8:51:07.8	11:48:09	600	-46	2.0	#10 M67 stars	2	
0099.COMP	30	4:39	8:51:07.8	11:48:09	600	-46	2.0	#10 M67 stars	2	

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0100.HD87141	2	4:42	10:01:17.7	+54:08:04	600	70	2.0	#10 M67 stars	2	
0101.HD87141	2	4:43	10:01:17.7	+54:08:04	600	70	2.0	#10 M67 stars	2	
0102.HD87141	2	4:43	10:01:17.7	+54:08:04	600	70	2.0	#10 M67 stars	2	
0103.COMP	30	4:43	10:01:17.7	+54:08:04	600	70	2.0	#10 M67 stars	2	
0104.m67_6134	600	4:48	8:51:46.4	11:46:26	600	-43	2.0	#10 M67 stars	2	
0105.m67_6134	600	4:58	8:51:46.4	11:46:26	600	-43	2.0	#10 M67 stars	2	
0106.COMP	30	5:08	8:51:46.4	11:46:26	600	-43	2.0	#10 M67 stars	2	
0107.m67_6484	360	5:12	8:51:07.8	11:48:09	600	-33	2.0	#10 M67 stars	2	
0108.COMP	30	5:18	8:51:07.8	11:48:09	600	-33	2.0	#10 M67 stars	2	
0109.m67_5741	600	5:23	8:51:22.9	11:49:12	600	-24	2.0	#10 M67 stars	2	
0110.m67_5741	600	5:33	8:51:22.9	11:49:12	600	-24	2.0	#10 M67 stars	2	
0111.COMP	30	5:43	8:51:22.9	11:49:12	600	-24	2.0	#10 M67 stars	2	
0112.m67_6502	360	5:47	8:51:42.3	11:50:07	600	-16	2.0	#10 M67 stars	2	
0113.COMP	30	5:53	8:51:42.3	11:50:07	600	-16	2.0	#10 M67 stars	2	
0114.m67_5795	600	6:00	8:51:25.5	11:52:38	600	-9	2.0	#10 M67 stars	2	
0115.m67_5795	600	6:10	8:51:25.5	11:52:38	600	-9	2.0	#10 M67 stars	2	
0116.COMP	30	6:21	8:51:25.5	11:52:38	600	-9	2.0	#10 M67 stars	2	
0117.HD89010	2	6:24	10:13:46.3	+23:45:46	600	-61	2.0	#10 M67 stars	2	
0118.HD89010	2	6:24	10:13:46.3	+23:45:46	600	-61	2.0	#10 M67 stars	2	
0119.HD89010	2	6:24	10:13:46.3	+23:45:46	600	-61	2.0	#10 M67 stars	2	

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0120.COMP	30	6:25	10:13:46.3	+23:45:46	600	-61	2.0	#10 M67 stars	2	
0121.m67_6477	480	6:28	8:50:55.7	11:52:14	600	7	2.0	#10 M67 stars	2	
0122.COMP	30	6:36	8:50:55.7	11:52:14	600	7	2.0	#10 M67 stars	2	
0123.m67_5342	600	6:38	8:50:59.2	11:56:36	600	14	2.0	#10 M67 stars	2	
0124.m67_5342	600	6:48	8:50:59.2	11:56:36	600	14	2.0	#10 M67 stars	2	
0125.COMP	30	6:59	8:50:59.2	11:56:36	600	14	2.0	#10 M67 stars	2	
0126.m67_5877	480	7:01	8:51:30.4	11:48:57	600	26	2.0	#10 M67 stars	2	
0127.COMP	30	7:10	8:51:30.4	11:48:57	600	26	2.0	#10 M67 stars	2	
0128.Feige34	240	7:12	10:36:41.2	43:21:50	600	46	2.0	#56 Spectropho	2	
0129.COMP	30	7:17	10:36:41.2	43:21:50	600	46	2.0	#56 Spectropho	2	
0130.FLAT	40	7:20	10:36:41.2	43:21:50	600	90	2.0	#122 Halo Star	4	binby4
0131-0139.FLAT	40	7:27	10:36:41.2	43:21:50	600	90	2.0	#122 Halo Star	4	
0140.Feige34	120	7:30	10:36:41.2	43:21:50	600	90	2.0	#122 Halo Star	4	
0141.COMP	10	7:32	10:36:41.2	43:21:50	600	90	2.0	#122 Halo Star	4	
0142.hs756	1200	7:33	10:23:17.6	29:36:54	600	90	2.0	#122 Halo Star	4	try again....
0143.COMP	10	7:57	10:23:17.6	29:36:54	600	90	2.0	#122 Halo Star	4	
0144.hs756	1200	7:58	10:23:17.6	29:36:54	600	90	2.0	#122 Halo Star	4	
0145.COMP	30	8:19	10:23:17.6	29:36:54	600	90	2.0	#122 Halo Star	4	
0146.hs757	1200	8:20	10:23:59.8	29:10:19	600	90	2.0	#122 Halo Star	4	
0147.COMP	10	8:40	10:23:59.8	29:10:19	600	90	2.0	#122 Halo Star	4	

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0148.hs758	1200	8:41	10:24:07.1	28:52:00	600	90	2.0	#122 Halo Star	4	
0149.COMP	10	9:01	10:24:07.1	28:52:00	600	90	2.0	#122 Halo Star	4	
0150.hs759	830	9:03	10:24:09.3	29:26:59	600	90	2.0	#122 Halo Star	4	
0151.COMP	10	9:17	10:24:09.3	29:26:59	600	90	2.0	#122 Halo Star	4	
0152.hs760	150	9:18	10:24:27.9	28:21:32	600	90	2.0	#122 Halo Star	4	
0153.COMP	10	9:21	10:24:27.9	28:21:32	600	90	2.0	#122 Halo Star	4	
0154.hs761	830	9:22	10:25:21.0	28:35:39	600	90	2.0	#122 Halo Star	4	
0155.COMP	10	9:36	10:25:21.0	28:35:39	600	90	2.0	#122 Halo Star	4	
0156.hs762	480	9:37	10:25:33.6	29:23:33	600	90	2.0	#122 Halo Star	4	
0157.COMP	10	9:45	10:25:33.6	29:23:33	600	90	2.0	#122 Halo Star	4	
0158.hs763	830	9:46	10:26:25.2	27:45:18	600	90	2.0	#122 Halo Star	4	
0159.COMP	10	10:00	10:26:25.2	27:45:18	600	90	2.0	#122 Halo Star	4	
0160.hs764	90	10:01	10:27:38.1	27:48:04	600	90	2.0	#122 Halo Star	4	
0161.COMP	10	10:03	10:27:38.1	27:48:04	600	90	2.0	#122 Halo Star	4	
0162.hs765	1200	10:04	10:28:23.5	29:23:22	600	90	2.0	#122 Halo Star	4	
0163.COMP	10	10:24	10:28:23.5	29:23:22	600	90	2.0	#122 Halo Star	4	
0164.hs766	1200	10:25	10:31:50.8	29:15:11	600	97	2.0	#122 Halo Star	4	rotate to isolate
0165.COMP	10	10:46	10:31:50.8	29:15:11	600	97	2.0	#122 Halo Star	4	
0166.hs767	1200	10:47	10:33:09.6	29:03:15	600	85	2.0	#122 Halo Star	4	
0167.COMP	10	11:07	10:33:09.6	29:03:15	600	85	2.0	#122 Halo Star	4	

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0168.hs768	720	11:08	10:33:30.5	28:19:09	600	90	2.0	#122 Halo Star	4	
0169.COMP	10	11:21	10:33:30.5	28:19:09	600	90	2.0	#122 Halo Star	4	
0170.hs769	600	11:22	10:33:48.4	28:09:01	600	90	2.0	#122 Halo Star	4	
0171.COMP	10	11:32	10:33:48.4	28:09:01	600	90	2.0	#122 Halo Star	4	
0172.hs770	1200	11:33	10:35:17.2	29:20:08	600	90	2.0	#122 Halo Star	4	
0173.COMP	10	11:54	10:35:17.2	29:20:08	600	90	2.0	#122 Halo Star	4	
0174.HZ44	240	11:55	13:21:19.0	36:23:39	600	90	2.0	#122 Halo Star	4	
0175.COMP	10	12:00	13:21:19.0	36:23:39	600	90	2.0	#122 Halo Star	4	
0176.MRK421	300	12:04	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	4	normal setup
0177.MRK421	300	12:09	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	4	
0178.MRK421	300	12:14	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	4	
0179.COMP	5	12:20	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	4	
0180.sn2002aw	1200	12:22	16:37:29.0	+40:52:50	300	72	3.0	#2 SN Observat	2	
0181.COMP	12	12:43	16:37:29.0	+40:52:50	300	72	3.0	#2 SN Observat	2	
0182.2MJ1637292p405248	360	12:44	16:37:29.0	+40:52:50	300	72	3.0	#68 2MASS	2	
0183.COMP	12	12:50	16:37:29.0	+40:52:50	300	72	3.0	#68 2MASS	2	
0184.FSVSJ162548	900	12:53	16:25:48.8	26:46:59	300	90	3.0	#131 FSVS	2	
0185.COMP	12	13:08	16:25:48.8	26:46:59	300	90	3.0	#131 FSVS	2	
0186.BDp332642	60	13:10	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0187.BDp332642	60	13:11	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	

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0188.COMP	12	13:12	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0189.BDp332642	60	13:14	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	2	
0190.BDp332642	60	13:15	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	2	
0191.COMP	12	13:16	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	2	
0192-0201.BIAS	0	13:22	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	4	
0202-0211.FLAT	6	13:25	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	4	
0212-0221.BIAS	0	13:27	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	2	
0222-0231.FLAT	12	13:39	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	2	
0232-0241.DARK	900	15:58	15:50:03	33:05:49	300	20	3.0	#56 Spectropho	2	