



UT Date 2002-09-06 Observers M Calkins

Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001.DARK	900	22:19	02:32:31	03:30:51	300	2	3.0	#57 Velocity S	4	
0002.DARK	900	23:23	23:23:24	23:23:24	300	2	3.0	#57 Velocity S	4	
0003.DARK	900	23:39	23:38:31	23:38:31	300	2	3.0	#57 Velocity S	4	
0004.DARK	900	23:54	23:53:38	23:53:38	300	2	3.0	#57 Velocity S	4	
0005.DARK	900	0:09	00:08:45	00:08:45	300	2	3.0	#57 Velocity S	4	
0006.DARK	900	0:24	00:23:52	00:23:52	300	2	3.0	#57 Velocity S	4	
0007.DARK	900	0:39	00:38:59	00:38:59	300	2	3.0	#57 Velocity S	4	
0008.DARK	900	0:54	00:54:05	00:54:05	300	2	3.0	#57 Velocity S	4	
0009.DARK	900	1:09	01:09:12	01:09:12	300	2	3.0	#57 Velocity S	4	
0010.DARK	900	1:24	01:24:19	01:24:19	300	2	3.0	#57 Velocity S	4	
0011.BIAS	0	1:42	01:42:13	01:42:13	300	2	3.0	#57 Velocity S	4	
0012.BIAS	0	1:42	01:42:21	01:42:21	300	2	3.0	#57 Velocity S	4	
0013.BIAS	0	1:42	01:42:28	01:42:28	300	2	3.0	#57 Velocity S	4	
0014.BIAS	0	1:43	01:42:35	01:42:35	300	2	3.0	#57 Velocity S	4	
0015.BIAS	0	1:43	01:42:42	01:42:42	300	2	3.0	#57 Velocity S	4	
0016.BIAS	0	1:43	01:42:50	01:42:50	300	2	3.0	#57 Velocity S	4	
0017.BIAS	0	1:43	01:42:57	01:42:57	300	2	3.0	#57 Velocity S	4	
0018.BIAS	0	1:43	01:43:04	01:43:04	300	2	3.0	#57 Velocity S	4	
0019.BIAS	0	1:43	01:43:11	01:43:11	300	2	3.0	#57 Velocity S	4	
0020.BIAS	0	1:43	01:43:19	01:43:19	300	2	3.0	#57 Velocity S	4	



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0021.FLAT	6	1:45	01:45:14	01:45:14	300	2	3.0	#57 Velocity S	4	
0022.FLAT	6	1:45	01:45:27	01:45:27	300	2	3.0	#57 Velocity S	4	
0023.FLAT	6	1:46	01:45:40	01:45:40	300	2	3.0	#57 Velocity S	4	
0024.FLAT	6	1:46	01:45:53	01:45:53	300	2	3.0	#57 Velocity S	4	
0025.FLAT	6	1:46	01:46:06	01:46:06	300	2	3.0	#57 Velocity S	4	
0026.FLAT	6	1:46	01:46:19	01:46:19	300	2	3.0	#57 Velocity S	4	
0027.FLAT	6	1:47	01:46:32	01:46:32	300	2	3.0	#57 Velocity S	4	
0028.FLAT	6	1:47	01:46:45	01:46:45	300	2	3.0	#57 Velocity S	4	
0029.FLAT	6	1:47	01:46:58	01:46:58	300	2	3.0	#57 Velocity S	4	
0030.FLAT	6	1:47	01:47:11	01:47:11	300	2	3.0	#57 Velocity S	4	
0031.BIAS	0	1:48	01:48:27	01:48:27	300	2	3.0	#57 Velocity S	2	
0032.BIAS	0	1:49	01:48:40	01:48:40	300	2	3.0	#57 Velocity S	2	
0033.BIAS	0	1:49	01:48:53	01:48:53	300	2	3.0	#57 Velocity S	2	
0034.BIAS	0	1:49	01:49:06	01:49:06	300	2	3.0	#57 Velocity S	2	
0035.BIAS	0	1:49	01:49:19	01:49:19	300	2	3.0	#57 Velocity S	2	
0036.BIAS	0	1:50	01:49:32	01:49:32	300	2	3.0	#57 Velocity S	2	
0037.BIAS	0	1:50	01:49:45	01:49:45	300	2	3.0	#57 Velocity S	2	
0038.BIAS	0	1:50	01:49:58	01:49:58	300	2	3.0	#57 Velocity S	2	
0039.BIAS	0	1:50	01:50:11	01:50:11	300	2	3.0	#57 Velocity S	2	
0040.BIAS	0	1:50	01:50:24	01:50:24	300	2	3.0	#57 Velocity S	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0041.FLAT	12	1:52	01:51:31	01:51:31	300	2	3.0	#57 Velocity S	2	
0042.FLAT	12	1:52	01:51:56	01:51:56	300	2	3.0	#57 Velocity S	2	
0043.FLAT	12	1:52	01:52:21	01:52:21	300	2	3.0	#57 Velocity S	2	
0044.FLAT	12	1:53	01:52:45	01:52:45	300	2	3.0	#57 Velocity S	2	
0045.FLAT	12	1:53	01:53:10	01:53:10	300	2	3.0	#57 Velocity S	2	
0046.FLAT	12	1:54	01:53:34	01:53:34	300	2	3.0	#57 Velocity S	2	
0047.FLAT	12	1:54	01:53:59	01:53:59	300	2	3.0	#57 Velocity S	2	
0048.FLAT	12	1:54	01:54:23	01:54:23	300	2	3.0	#57 Velocity S	2	
0049.FLAT	12	1:55	01:54:48	01:54:48	300	2	3.0	#57 Velocity S	2	
0050.FLAT	12	1:55	01:55:12	01:55:12	300	2	3.0	#57 Velocity S	2	
0051.BDp284211	180	4:47	21:48:57.1	28:37:48	300	90	3.0	#56 Spectropho	4	
0052.COMP	5	4:51	21:48:57.1	28:37:48	300	90	3.0	#56 Spectropho	4	
0053.BDp284211	240	5:35	21:48:57.1	28:37:48	300	90	3.0	#56 Spectropho	2	(engineering with Ted...)
0054.COMP	12	5:39	21:48:57.1	28:37:48	300	90	3.0	#56 Spectropho	2	
0055.BDp284211	120	6:41	21:48:57.1	28:37:48	300	62	3.0	#56 Spectropho	2	
0056.COMP	12	6:44	21:48:57.1	28:37:48	300	62	3.0	#56 Spectropho	2	
0057.sn2002et	1200	6:52	20:08:31.0	-25:27:37	300	32	3.0	#2 SN Observat	2	row=78
0058.COMP	12	7:12	20:08:31.0	-25:27:37	300	32	3.0	#2 SN Observat	2	
0059.sn2002ey	1200	7:20	23:10:12.3	7:32:59	300	-9	3.0	#2 SN Observat	2	
0060.COMP	12	7:40	23:10:12.3	7:32:59	300	-9	3.0	#2 SN Observat	2	

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0061.ZAnd	2	7:44	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0062.ZAnd	5	7:44	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0063.ZAnd	15	7:45	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0064.COMP	12	7:45	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	2	
0065.MRK509	360	7:49	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0066.MRK509	360	7:55	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0067.COMP	12	8:02	20:44:09.8	-10:43:24	300	90	3.0	#6 AGN Monitor	2	
0068.Akn564	240	8:04	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0069.Akn564	240	8:08	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0070.COMP	12	8:13	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0071.N7469	120	8:15	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	row=74
0072.N7469	120	8:17	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	
0073.COMP	12	8:19	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	
0074.MRK335	180	8:21	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0075.MRK335	180	8:24	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0076.COMP	12	8:27	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0077.0o2589	5	8:31	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0078.0o2589	5	8:32	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0079.0o2589	5	8:32	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0080.0o2589	5	8:32	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	

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0081.0o2589	5	8:32	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0082.COMP	12	8:33	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0083.sb97	1200	8:38	22:28:25.8	+30:17:33	300	110	3.0	#135 Starburst	2	
0084.COMP	12	8:58	22:28:25.8	+30:17:33	300	110	3.0	#135 Starburst	2	
0085.sb102	600	9:00	22:55:32.4	+19:17:33	300	90	3.0	#135 Starburst	2	row=76
0086.COMP	12	9:11	22:55:32.4	+19:17:33	300	90	3.0	#135 Starburst	2	
0087.sb100	1020	9:13	22:44:12.2	+34:21:05	300	90	3.0	#135 Starburst	2	
0088.COMP	12	9:30	22:44:12.2	+34:21:05	300	90	3.0	#135 Starburst	2	
0089.sb103a	240	9:34	22:57:35	+19:46:56	300	90	3.0	#135 Starburst	2	row=76
0090.COMP	12	9:38	22:57:35	+19:46:56	300	90	3.0	#135 Starburst	2	
0091.sb101	480	9:40	22:52:34.7	+24:43:49	300	110	3.0	#135 Starburst	2	
0092.COMP	12	9:48	22:52:34.7	+24:43:49	300	110	3.0	#135 Starburst	2	
0093.sb106	480	9:50	23:14:51.7	+33:01:22	300	110	3.0	#135 Starburst	2	
0094.COMP	12	9:58	23:14:51.7	+33:01:22	300	110	3.0	#135 Starburst	2	
0095.sb107	300	10:00	23:27:41.2	+23:35:21	300	90	3.0	#135 Starburst	2	
0096.COMP	12	10:05	23:27:41.2	+23:35:21	300	90	3.0	#135 Starburst	2	
0097.sb105	1020	10:07	23:04:56.6	+19:33:07	300	110	3.0	#135 Starburst	2	
0098.COMP	12	10:25	23:04:56.6	+19:33:07	300	110	3.0	#135 Starburst	2	
0099.sb104	1020	10:26	23:00:32.3	+13:02:04	300	110	3.0	#135 Starburst	2	
0100.COMP	12	10:43	23:00:32.3	+13:02:04	300	110	3.0	#135 Starburst	2	

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0101.sb110	480	10:45	23:37:39.6	+30:07:47	300	90	3.0	#135 Starburst	2	
0102.COMP	12	10:54	23:37:39.6	+30:07:47	300	90	3.0	#135 Starburst	2	
0103.sb108	420	11:08	23:28:06.3	+23:31:53	300	90	3.0	#135 Starburst	2	
0104.COMP	12	11:16	23:28:06.3	+23:31:53	300	90	3.0	#135 Starburst	2	
0105.sb111	780	11:17	23:38:49.7	+04:25:43	300	90	3.0	#135 Starburst	2	
0106.COMP	12	11:31	23:38:49.7	+04:25:43	300	90	3.0	#135 Starburst	2	
0107.sn2002es	1200	11:35	03:23:47.2	40:33:53	300	17	3.0	#2 SN Observat	2	
0108.COMP	12	11:56	03:23:47.2	40:33:53	300	17	3.0	#2 SN Observat	2	
0109.BGGem	300	11:58	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0110.BGGem	900	12:04	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0111.COMP	12	12:20	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0112.Feige24	180	12:23	02:32:31	03:30:51	300	33	3.0	#56 Spectropho	2	
0113.COMP	12	12:26	02:32:31	03:30:51	300	33	3.0	#56 Spectropho	2	
0114-0118.sky	2	12:41	02:32:31	03:30:51	300	33	3.0	#57 Velocity S	4	
0119.COMP	5	12:42	02:32:31	03:30:51	300	33	3.0	#57 Velocity S	4	
0120-0129.BIAS	0	12:44	02:32:31	03:30:51	300	33	3.0	#57 Velocity S	4	
0130-0139.FLAT	6	12:47	02:32:31	03:30:51	300	33	3.0	#57 Velocity S	4	
0140-0149.BIAS	0	12:51	02:32:31	03:30:51	300	33	3.0	#57 Velocity S	2	
0150-0159.FLAT	12	12:58	02:32:31	03:30:51	300	33	3.0	#57 Velocity S	2	
0160-0169.DARK	900	15:28	02:32:31	03:30:51	300	90	3.0	#57 Velocity S	2	