

UT Date 2004-04-22 Observers W. BrownColl. Focus 1020 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	1:18	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	x10
0002-0010.BIAS	0	1:19	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0011.FLAT	24	1:21	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	x15
0012-0025.FLAT	24	1:28	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0026-0027.SKY	3	2:08	9:0:0	31:30:0	600	90	2.0	#57 Velocity S	4	
0028.SKY	4	2:08	9:0:0	31:30:0	600	90	2.0	#57 Velocity S	4	
0029.FineFoc	60	2:29	09:00:05.4	31:28:18	600	90	2.0	#56 Spectropho	1	
0030.Feige34	180	2:46	10:36:41.2	43:21:50	600	90	2.0	#56 Spectropho	4	
0031.COMP	10	2:49	10:36:41.2	43:21:50	600	90	2.0	#56 Spectropho	4	
0032.hs2020	200	2:54	11:45:49.9	31:49:27	600	90	2.0	#122 Halo Star	4	
0033.COMP	10	2:58	11:45:49.9	31:49:27	600	90	2.0	#122 Halo Star	4	
0034.hs2027	200	2:59	11:47:03.3	32:01:37	600	90	2.0	#122 Halo Star	4	
0035.COMP	10	3:03	11:47:03.3	32:01:37	600	90	2.0	#122 Halo Star	4	
0036.hs2028	246	3:03	11:47:05.2	29:33:59	600	90	2.0	#122 Halo Star	4	
0037.COMP	10	3:08	11:47:05.2	29:33:59	600	90	2.0	#122 Halo Star	4	
0038.hs2009	160	3:08	11:44:37.9	23:47:51	600	90	2.0	#122 Halo Star	4	
0039.COMP	10	3:11	11:44:37.9	23:47:51	600	90	2.0	#122 Halo Star	4	
0040.hs2015	318	3:12	11:45:10.5	25:39:03	600	90	2.0	#122 Halo Star	4	
0041.COMP	10	3:18	11:45:10.5	25:39:03	600	90	2.0	#122 Halo Star	4	
0042.hs2011	380	3:19	11:44:50.7	28:37:30	600	90	2.0	#122 Halo Star	4	

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0043.COMP	10	3:25	11:44:50.7	28:37:30	600	90	2.0	#122 Halo Star	4	
0044.hs1980	520	3:26	11:39:24.1	32:50:42	600	90	2.0	#122 Halo Star	4	
0045.COMP	10	3:35	11:39:24.1	32:50:42	600	90	2.0	#122 Halo Star	4	
0046.hs1978	420	3:36	11:39:18.3	38:53:54	600	90	2.0	#122 Halo Star	4	
0047.COMP	10	3:43	11:39:18.3	38:53:54	600	90	2.0	#122 Halo Star	4	
0048.hs1984	410	3:44	11:40:22.5	18:04:26	600	90	2.0	#122 Halo Star	4	
0049.COMP	10	3:51	11:40:22.5	18:04:26	600	90	2.0	#122 Halo Star	4	
0050.hs1989	252	3:52	11:40:55.5	18:44:11	600	90	2.0	#122 Halo Star	4	
0051.COMP	10	3:56	11:40:55.5	18:44:11	600	90	2.0	#122 Halo Star	4	
0052.hs1982	160	3:57	11:39:36.0	17:00:10	600	90	2.0	#122 Halo Star	4	
0053.COMP	10	4:00	11:39:36.0	17:00:10	600	90	2.0	#122 Halo Star	4	
0054.hs1983	150	4:00	11:39:45.8	15:47:40	600	90	2.0	#122 Halo Star	4	
0055.COMP	10	4:03	11:39:45.8	15:47:40	600	90	2.0	#122 Halo Star	4	
0056.hs1979	570	4:04	11:39:22.8	15:30:57	600	90	2.0	#122 Halo Star	4	
0057.COMP	10	4:14	11:39:22.8	15:30:57	600	90	2.0	#122 Halo Star	4	
0058.hs2002	210	4:15	11:43:07.6	8:42:53	600	90	2.0	#122 Halo Star	4	
0059.COMP	10	4:19	11:43:07.6	8:42:53	600	90	2.0	#122 Halo Star	4	
0060.hs1977	600	4:20	11:39:18.0	13:00:55	600	90	2.0	#122 Halo Star	4	
0061.COMP	10	4:30	11:39:18.0	13:00:55	600	90	2.0	#122 Halo Star	4	
0062.hs1986	410	4:31	11:40:26.9	7:29:13	600	90	2.0	#122 Halo Star	4	

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0063.COMP	10	4:38	11:40:26.9	7:29:13	600	90	2.0	#122 Halo Star	4	
0064.hs1981	522	4:38	11:39:24.2	4:26:17	600	90	2.0	#122 Halo Star	4	
0065.COMP	10	4:48	11:39:24.2	4:26:17	600	90	2.0	#122 Halo Star	4	
0066.hs1987	210	4:49	11:40:32.8	4:38:51	600	90	2.0	#122 Halo Star	4	
0067.COMP	10	4:53	11:40:32.8	4:38:51	600	90	2.0	#122 Halo Star	4	
0068.hs1995	264	4:54	11:41:32.7	2:39:07	600	90	2.0	#122 Halo Star	4	
0069.COMP	10	4:59	11:41:32.7	2:39:07	600	90	2.0	#122 Halo Star	4	
0070.hs2007	396	4:59	11:44:06.9	3:44:50	600	90	2.0	#122 Halo Star	4	
0071.COMP	10	5:06	11:44:06.9	3:44:50	600	90	2.0	#122 Halo Star	4	
0072.hs2012	216	5:07	11:44:54.5	3:15:50	600	90	2.0	#122 Halo Star	4	
0073.COMP	10	5:11	11:44:54.5	3:15:50	600	90	2.0	#122 Halo Star	4	
0074.hs2030	444	5:11	11:47:17.5	4:47:46	600	90	2.0	#122 Halo Star	4	
0075.COMP	10	5:19	11:47:17.5	4:47:46	600	90	2.0	#122 Halo Star	4	
0076.hs2036	312	5:20	11:48:12.9	1:33:13	600	90	2.0	#122 Halo Star	4	
0077.COMP	10	5:25	11:48:12.9	1:33:13	600	90	2.0	#122 Halo Star	4	
0078.hs2016	384	5:26	11:45:12.2	7:51:13	600	90	2.0	#122 Halo Star	4	
0079.COMP	10	5:33	11:45:12.2	7:51:13	600	90	2.0	#122 Halo Star	4	
0080.hs2043	282	5:34	11:49:32.4	2:37:08	600	90	2.0	#122 Halo Star	4	
0081.COMP	10	5:39	11:49:32.4	2:37:08	600	90	2.0	#122 Halo Star	4	
0082.hs2050	160	5:39	11:51:13.0	4:24:49	600	90	2.0	#122 Halo Star	4	

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0083.COMP	10	5:42	11:51:13.0	4:24:49	600	90	2.0	#122 Halo Star	4	
0084.hs2055	528	5:43	11:51:45.4	3:44:01	600	90	2.0	#122 Halo Star	4	
0085.COMP	10	5:52	11:51:45.4	3:44:01	600	90	2.0	#122 Halo Star	4	
0086.hs2059	170	5:53	11:52:29.8	4:30:44	600	90	2.0	#122 Halo Star	4	
0087.COMP	10	5:56	11:52:29.8	4:30:44	600	90	2.0	#122 Halo Star	4	
0088.hs2013	366	5:56	11:45:00.2	9:35:29	600	90	2.0	#122 Halo Star	4	
0089.COMP	10	6:03	11:45:00.2	9:35:29	600	90	2.0	#122 Halo Star	4	
0090.hs2010	318	6:04	11:44:40.0	12:14:20	600	90	2.0	#122 Halo Star	4	
0091.COMP	10	6:09	11:44:40.0	12:14:20	600	90	2.0	#122 Halo Star	4	
0092.hs1992	210	6:10	11:41:12.0	15:10:41	600	90	2.0	#122 Halo Star	4	
0093.COMP	10	6:14	11:41:12.0	15:10:41	600	90	2.0	#122 Halo Star	4	
0094.hs2017	354	6:14	11:45:41.6	22:12:43	600	90	2.0	#122 Halo Star	4	
0095.COMP	10	6:21	11:45:41.6	22:12:43	600	90	2.0	#122 Halo Star	4	
0096.hs2023	600	6:22	11:46:31.4	46:46:32	600	90	2.0	#122 Halo Star	4	
0097.COMP	10	6:33	11:46:31.4	46:46:32	600	90	2.0	#122 Halo Star	4	
0098.hs2021	576	6:33	11:46:09.5	42:44:43	600	90	2.0	#122 Halo Star	4	
0099.COMP	10	6:43	11:46:09.5	42:44:43	600	90	2.0	#122 Halo Star	4	
0100.hs1988	468	6:44	11:40:49.9	39:51:06	600	90	2.0	#122 Halo Star	4	
0101.COMP	10	6:52	11:40:49.9	39:51:06	600	90	2.0	#122 Halo Star	4	
0102.hs2022	504	6:53	11:46:18.0	40:54:11	600	90	2.0	#122 Halo Star	4	

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0103.COMP	10	7:02	11:46:18.0	40:54:11	600	90	2.0	#122 Halo Star	4	
0104.hs2033	258	7:03	11:47:45.1	9:34:34	600	90	2.0	#122 Halo Star	4	
0105.COMP	10	7:08	11:47:45.1	9:34:34	600	90	2.0	#122 Halo Star	4	
0106.hs2032	300	7:08	11:47:30.6	14:41:16	600	90	2.0	#122 Halo Star	4	
0107.COMP	10	7:14	11:47:30.6	14:41:16	600	90	2.0	#122 Halo Star	4	
0108.hs2031	384	7:14	11:47:29.4	18:29:41	600	90	2.0	#122 Halo Star	4	
0109.COMP	10	7:21	11:47:29.4	18:29:41	600	90	2.0	#122 Halo Star	4	
0110.hs2034	234	7:22	11:47:54.6	15:51:22	600	90	2.0	#122 Halo Star	4	
0111.COMP	10	7:26	11:47:54.6	15:51:22	600	90	2.0	#122 Halo Star	4	
0112.hs2025	330	7:27	11:46:45.5	38:42:14	600	90	2.0	#122 Halo Star	4	
0113.COMP	10	7:33	11:46:45.5	38:42:14	600	90	2.0	#122 Halo Star	4	
0114.sn2004as	1200	7:42	11:25:39.1	+22:49:49	300	67	3.0	#2 SN Observat	2	now 3001, tilt 619, 3 slit, binby2
0115.COMP	10	8:02	11:25:39.1	+22:49:49	300	67	3.0	#2 SN Observat	2	seeing is 3; this sn was tough
0116.sn2004aw	1200	8:03	11:57:50.2	+25:15:55	300	67	3.0	#2 SN Observat	2	
0117.COMP	10	8:24	11:57:50.2	+25:15:55	300	67	3.0	#2 SN Observat	2	
0118.sn2004bd	1200	8:27	11:39:42.1	+31:54:31	300	76	3.0	#2 SN Observat	2	
0119.COMP	10	8:48	11:39:42.1	+31:54:31	300	76	3.0	#2 SN Observat	2	
0120.BDp262606	40	8:49	14:49:02.3	+25:42:09	300	76	3.0	#56 Spectropho	2	
0121.COMP	10	8:50	14:49:02.3	+25:42:09	300	76	3.0	#56 Spectropho	2	
0122.BDp332642	60	8:52	15:50:03.0	33:05:49	300	76	3.0	#56 Spectropho	2	

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0123.COMP	10	8:53	15:50:03.0	33:05:49	300	76	3.0	#56 Spectropho	2	
0124.BDp332642	45	8:54	15:50:03.0	33:05:49	300	76	3.0	#56 Spectropho	4	now binby4
0125.COMP	5	8:55	15:50:03.0	33:05:49	300	76	3.0	#56 Spectropho	4	
0126.131830p09140_a	720	8:57	13:20:59.6	8:58:42	300	27	3.0	#113 Interacti	4	
0127.COMP	5	9:10	13:20:59.6	8:58:42	300	27	3.0	#113 Interacti	4	
0128.162354p13170_a	1080	9:13	16:26:17.5	13:11:29	300	-20	3.0	#113 Interacti	4	
0129.COMP	5	9:31	16:26:17.5	13:11:29	300	-20	3.0	#113 Interacti	4	
0130.141324p36270_b	1500	9:34	14:15:48.2	36:13:2	300	-20	3.0	#113 Interacti	4	
0131.COMP	5	9:59	14:15:48.2	36:13:2	300	-20	3.0	#113 Interacti	4	
0132.142954p36310_c	1200	10:04	14:32:17.1	36:20:30	300	16	3.0	#113 Interacti	4	
0133.COMP	5	10:24	14:32:17.1	36:20:30	300	16	3.0	#113 Interacti	4	
0134.142954p36310_c	1200	10:24	14:32:17.1	36:20:30	300	16	3.0	#113 Interacti	4	
0135.COMP	5	10:45	14:32:17.1	36:20:30	300	16	3.0	#113 Interacti	4	
0136.160048p05470_a	1080	10:48	16:3:16.2	5:38:27	300	80	3.0	#113 Interacti	4	
0137.COMP	5	11:07	16:3:16.2	5:38:27	300	80	3.0	#113 Interacti	4	
0138.MRK279	180	11:10	13:51:53.6	69:33:13	300	90	3.0	#6 AGN Monitor	4	
0139.MRK279	180	11:13	13:51:53.6	69:33:13	300	90	3.0	#6 AGN Monitor	4	
0140.COMP	5	11:16	13:51:53.6	69:33:13	300	90	3.0	#6 AGN Monitor	4	
0141.3C390.3	360	11:18	18:42:09.1	79:46:17	300	90	3.0	#6 AGN Monitor	4	
0142.3C390.3	360	11:24	18:42:09.1	79:46:17	300	90	3.0	#6 AGN Monitor	4	

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0143.COMP	5	11:31	18:42:09.1	79:46:17	300	90	3.0	#6 AGN Monitor	4	
0144.N5548	240	11:32	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	4	
0145.N5548	240	11:36	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	4	
0146.COMP	5	11:41	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	4	
0147.N5866	30	11:43	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0148.COMP	5	11:44	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0149.BDp404032	70	11:47	20:06:40.0	41:06:15	300	90	3.0	#56 Spectropho	4	
0150.COMP	5	11:48	20:06:40.0	41:06:15	300	90	3.0	#56 Spectropho	4	
0151.BDp404032	140	11:49	20:06:40.0	41:06:15	300	90	3.0	#56 Spectropho	2	binby2
0152.COMP	10	11:52	20:06:40.0	41:06:15	300	90	3.0	#56 Spectropho	2	
0153.FLAT	16	11:55	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	2	x10
0154-0162.FLAT	16	11:59	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	2	
0163.BIAS	0	12:00	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	2	x10
0164-0172.BIAS	0	12:01	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	2	
0173.FLAT	8	12:03	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	4	x10 binby4
0174-0182.FLAT	8	12:05	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	4	
0183.BIAS	0	12:06	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	4	x10
0184-0192.BIAS	0	12:07	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	4	
0193-0202.DARK	900	14:24	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	4	
0203-0212.DARK	900	16:56	20:06:40.0	41:06:15	300	90	3.0	#113 Interacti	2	