

UT Date 2004-04-21 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	1:26	18:01:32.4	+44:04:20	600	90	2.0	#0 Calibration	4	x10 binby4
0002-0010.BIAS	0	1:27	18:01:32.4	+44:04:20	600	90	2.0	#0 Calibration	4	
0011.FLAT	24	1:28	18:01:32.4	+44:04:20	600	90	2.0	#0 Calibration	4	x10
0012-0020.FLAT	24	1:32	18:01:32.4	+44:04:20	600	90	2.0	#0 Calibration	4	
0021.SKY	2	2:06	6:30:0	31:30:0	600	90	2.0	#57 Velocity S	4	clear
0022.SKY	2	2:06	6:30:0	31:30:0	600	90	2.0	#57 Velocity S	4	though cirrus on SW and N horizons
0023.SKY	2	2:06	6:30:0	31:30:0	600	90	2.0	#57 Velocity S	4	
0024.FineFoc	60	2:32	09:00:05.4	31:28:18	600	90	2.0	#57 Velocity S	1	seeing 1.6 arcsec
0025.Feige34	160	2:48	10:36:41.2	43:21:50	600	90	2.0	#56 Spectropho	4	600l, 2 slit, tilt 440
0026.COMP	10	2:51	10:36:41.2	43:21:50	600	90	2.0	#56 Spectropho	4	
0027.hs1956	240	2:56	11:35:25.8	30:43:18	600	90	2.0	#122 Halo Star	4	
0028.COMP	10	3:01	11:35:25.8	30:43:18	600	90	2.0	#122 Halo Star	4	
0029.hs1965	192	3:02	11:37:05.1	29:47:58	600	90	2.0	#122 Halo Star	4	
0030.COMP	10	3:05	11:37:05.1	29:47:58	600	90	2.0	#122 Halo Star	4	
0031.hs1975	170	3:06	11:38:59.1	25:39:56	600	90	2.0	#122 Halo Star	4	
0032.COMP	10	3:09	11:38:59.1	25:39:56	600	90	2.0	#122 Halo Star	4	
0033.hs1976	330	3:10	11:39:03.0	32:01:02	600	90	1.5	#122 Halo Star	4	
0034.COMP	10	3:16	11:39:03.0	32:01:02	600	90	1.5	#122 Halo Star	4	
0035.hs1962	216	3:17	11:36:24.3	39:29:33	600	90	1.5	#122 Halo Star	4	
0036.COMP	10	3:21	11:36:24.3	39:29:33	600	90	1.5	#122 Halo Star	4	

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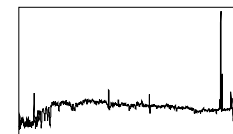
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0037.hs1952	504	3:22	11:34:25.0	30:12:05	600	90	1.5	#122 Halo Star	4	
0038.COMP	10	3:31	11:34:25.0	30:12:05	600	90	1.5	#122 Halo Star	4	
0039.hs1967	546	3:32	11:37:29.6	30:57:42	600	90	1.5	#122 Halo Star	4	
0040.COMP	10	3:41	11:37:29.6	30:57:42	600	90	1.5	#122 Halo Star	4	
0041.hs1969	546	3:42	11:38:06.9	30:14:55	600	90	1.5	#122 Halo Star	4	
0042.COMP	10	3:51	11:38:06.9	30:14:55	600	90	1.5	#122 Halo Star	4	
0043.hs1961	474	3:52	11:36:17.4	51:25:34	600	90	1.5	#122 Halo Star	4	
0044.COMP	10	4:01	11:36:17.4	51:25:34	600	90	1.5	#122 Halo Star	4	
0045.hs1954	594	4:01	11:34:40.3	51:41:25	600	90	1.5	#122 Halo Star	4	
0046.COMP	10	4:11	11:34:40.3	51:41:25	600	90	1.5	#122 Halo Star	4	
0047.hs1929	246	4:12	11:30:33.3	66:53:32	600	90	1.5	#122 Halo Star	4	
0048.COMP	10	4:17	11:30:33.3	66:53:32	600	90	1.5	#122 Halo Star	4	
0049.hs1955	180	4:18	11:35:21.1	70:06:25	600	90	1.5	#122 Halo Star	4	
0050.COMP	10	4:21	11:35:21.1	70:06:25	600	90	1.5	#122 Halo Star	4	
0051.hs1966	210	4:22	11:37:18.1	71:47:34	600	90	1.5	#122 Halo Star	4	
0052.COMP	10	4:26	11:37:18.1	71:47:34	600	90	1.5	#122 Halo Star	4	
0053.hs1951	480	4:27	11:34:12.6	72:09:41	600	90	1.5	#122 Halo Star	4	
0054.COMP	10	4:35	11:34:12.6	72:09:41	600	90	1.5	#122 Halo Star	4	
0055.hs1964	246	4:36	11:36:36.3	74:58:29	600	90	1.5	#122 Halo Star	4	
0056.COMP	10	4:41	11:36:36.3	74:58:29	600	90	1.5	#122 Halo Star	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0057.hs1927	168	4:41	11:30:06.1	75:26:15	600	90	1.5	#122 Halo Star	4	
0058.COMP	10	4:44	11:30:06.1	75:26:15	600	90	1.5	#122 Halo Star	4	
0059.hs1968	324	4:46	11:37:35.9	75:27:36	600	90	1.5	#122 Halo Star	4	
0060.COMP	10	4:52	11:37:35.9	75:27:36	600	90	1.5	#122 Halo Star	4	
0061.hs1960	360	4:53	11:36:06.1	80:21:05	600	90	1.5	#122 Halo Star	4	
0062.COMP	10	4:59	11:36:06.1	80:21:05	600	90	1.5	#122 Halo Star	4	
0063.hs2018	360	5:00	11:45:43.9	81:10:02	600	90	1.5	#122 Halo Star	4	
0064.COMP	10	5:06	11:45:43.9	81:10:02	600	90	1.5	#122 Halo Star	4	
0065.hs2003	258	5:07	11:43:23.6	79:50:01	600	90	1.5	#122 Halo Star	4	
0066.COMP	10	5:12	11:43:23.6	79:50:01	600	90	1.5	#122 Halo Star	4	
0067.hs2001	234	5:13	11:43:04.5	78:45:27	600	90	1.5	#122 Halo Star	4	
0068.COMP	10	5:17	11:43:04.5	78:45:27	600	90	1.5	#122 Halo Star	4	
0069.hs1994	168	5:18	11:41:27.1	76:51:56	600	90	1.5	#122 Halo Star	4	
0070.COMP	10	5:21	11:41:27.1	76:51:56	600	90	1.5	#122 Halo Star	4	
0071.hs2006	210	5:21	11:44:03.2	75:19:36	600	90	1.5	#122 Halo Star	4	
0072.COMP	10	5:25	11:44:03.2	75:19:36	600	90	1.5	#122 Halo Star	4	
0073.hs2014	522	5:26	11:45:07.0	72:37:42	600	90	1.5	#122 Halo Star	4	
0074.COMP	10	5:35	11:45:07.0	72:37:42	600	90	1.5	#122 Halo Star	4	
0075.hs2000	312	5:36	11:42:27.5	70:08:59	600	90	1.5	#122 Halo Star	4	
0076.COMP	10	5:41	11:42:27.5	70:08:59	600	90	1.5	#122 Halo Star	4	

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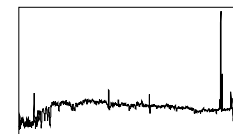
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0077.hs2005	190	5:42	11:43:45.1	69:04:56	600	90	1.5	#122 Halo Star	4	
0078.COMP	10	5:45	11:43:45.1	69:04:56	600	90	1.5	#122 Halo Star	4	
0079.hs2008	210	5:46	11:44:25.8	68:12:48	600	90	1.5	#122 Halo Star	4	
0080.COMP	10	5:50	11:44:25.8	68:12:48	600	90	1.5	#122 Halo Star	4	
0081.hs2026	230	5:51	11:46:56.5	64:20:05	600	90	1.5	#122 Halo Star	4	
0082.COMP	10	5:55	11:46:56.5	64:20:05	600	90	1.5	#122 Halo Star	4	
0083.hs2024	222	5:56	11:46:31.4	54:07:57	600	90	1.5	#122 Halo Star	4	
0084.COMP	10	6:00	11:46:31.4	54:07:57	600	90	1.5	#122 Halo Star	4	
0085.hs1991	240	6:01	11:41:03.7	52:23:56	600	90	1.5	#122 Halo Star	4	
0086.COMP	10	6:05	11:41:03.7	52:23:56	600	90	1.5	#122 Halo Star	4	
0087.hs1996	220	6:06	11:41:47.7	47:42:48	600	90	1.5	#122 Halo Star	4	
0088.COMP	10	6:10	11:41:47.7	47:42:48	600	90	1.5	#122 Halo Star	4	
0089.hs2019	582	6:12	11:45:47.4	46:41:23	600	90	1.5	#122 Halo Star	4	
0090.COMP	10	6:22	11:45:47.4	46:41:23	600	90	1.5	#122 Halo Star	4	
0091.hs1974	430	6:23	11:38:47.2	45:36:04	600	90	1.5	#122 Halo Star	4	
0092.COMP	10	6:30	11:38:47.2	45:36:04	600	90	1.5	#122 Halo Star	4	
0093.hs1973	260	6:31	11:38:43.3	44:47:48	600	90	1.5	#122 Halo Star	4	
0094.COMP	10	6:35	11:38:43.3	44:47:48	600	90	1.5	#122 Halo Star	4	
0095.hs1971	420	6:36	11:38:31.5	43:15:32	600	90	1.5	#122 Halo Star	4	
0096.COMP	10	6:43	11:38:31.5	43:15:32	600	90	1.5	#122 Halo Star	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0097.hs1972	350	6:45	11:38:31.9	21:18:55	600	90	1.5	#122 Halo Star	4	
0098.COMP	10	6:51	11:38:31.9	21:18:55	600	90	1.5	#122 Halo Star	4	
0099.hs1970	445	6:52	11:38:30.8	23:03:56	600	90	1.5	#122 Halo Star	4	
0100.COMP	10	7:00	11:38:30.8	23:03:56	600	90	1.5	#122 Halo Star	4	
0101.hs1990	160	7:00	11:40:57.3	24:15:04	600	90	1.5	#122 Halo Star	4	
0102.COMP	10	7:03	11:40:57.3	24:15:04	600	90	1.5	#122 Halo Star	4	
0103.hs1998	360	7:04	11:42:15.7	27:33:04	600	90	1.5	#122 Halo Star	4	
0104.COMP	10	7:10	11:42:15.7	27:33:04	600	90	1.5	#122 Halo Star	4	
0105.hs1985	320	7:11	11:40:23.3	42:42:04	600	90	1.5	#122 Halo Star	4	
0106.COMP	10	7:17	11:40:23.3	42:42:04	600	90	1.5	#122 Halo Star	4	
0107.hs1993	360	7:18	11:41:17.7	39:53:46	600	90	1.5	#122 Halo Star	4	
0108.COMP	10	7:24	11:41:17.7	39:53:46	600	90	1.5	#122 Halo Star	4	
0109.hs1997	606	7:25	11:41:53.0	36:29:23	600	90	1.5	#122 Halo Star	4	
0110.COMP	10	7:35	11:41:53.0	36:29:23	600	90	1.5	#122 Halo Star	4	
0111.hs2004	900	7:37	11:43:35.0	37:37:28	600	90	1.5	#122 Halo Star	4	
0112.COMP	10	7:52	11:43:35.0	37:37:28	600	90	1.5	#122 Halo Star	4	
0113.hs1999	600	7:53	11:42:24.6	37:47:03	600	90	3.0	#122 Halo Star	4	
0114.COMP	10	8:03	11:42:24.6	37:47:03	600	90	3.0	#122 Halo Star	4	
0115.hs2673	420	8:06	14:29:17.3	79:42:30	600	90	3.0	#122 Halo Star	4	
0116.COMP	10	8:14	14:29:17.3	79:42:30	600	90	3.0	#122 Halo Star	4	

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0117.hs2666	210	8:14	14:25:21.0	76:23:44	600	90	3.0	#122 Halo Star	4	
0118.COMP	10	8:18	14:25:21.0	76:23:44	600	90	3.0	#122 Halo Star	4	
0119.hs2660	500	8:19	14:21:50.8	76:11:01	600	90	3.0	#122 Halo Star	4	
0120.COMP	10	8:28	14:21:50.8	76:11:01	600	90	3.0	#122 Halo Star	4	
0121.hs2672	460	8:29	14:28:36.2	75:15:43	600	90	3.0	#122 Halo Star	4	
0122.COMP	10	8:37	14:28:36.2	75:15:43	600	90	3.0	#122 Halo Star	4	
0123.hs2664	570	8:38	14:23:42.2	69:54:44	600	90	3.0	#122 Halo Star	4	
0124.COMP	10	8:47	14:23:42.2	69:54:44	600	90	3.0	#122 Halo Star	4	
0125.hs2667	270	8:48	14:26:00.9	66:22:54	600	90	3.0	#122 Halo Star	4	
0126.COMP	10	8:53	14:26:00.9	66:22:54	600	90	3.0	#122 Halo Star	4	
0127.hs2674	324	8:54	14:29:57.1	65:00:25	600	90	3.0	#122 Halo Star	4	
0128.COMP	10	9:00	14:29:57.1	65:00:25	600	90	3.0	#122 Halo Star	4	
0129.hs2663	486	9:01	14:22:46.2	70:41:20	600	90	3.0	#122 Halo Star	4	
0130.COMP	10	9:09	14:22:46.2	70:41:20	600	90	3.0	#122 Halo Star	4	
0131.hs2659	312	9:10	14:20:36.1	70:30:09	600	90	3.0	#122 Halo Star	4	
0132.COMP	10	9:16	14:20:36.1	70:30:09	600	90	3.0	#122 Halo Star	4	
0133.hs2675	414	9:18	14:30:10.3	62:35:07	600	90	3.0	#122 Halo Star	4	
0134.COMP	10	9:25	14:30:10.3	62:35:07	600	90	3.0	#122 Halo Star	4	
0135.hs2669	474	9:26	14:26:26.2	57:00:09	600	90	3.0	#122 Halo Star	4	
0136.COMP	10	9:34	14:26:26.2	57:00:09	600	90	3.0	#122 Halo Star	4	

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0137.hs2665	330	9:36	14:23:47.7	56:35:40	600	90	3.0	#122 Halo Star	4	
0138.COMP	10	9:42	14:23:47.7	56:35:40	600	90	3.0	#122 Halo Star	4	
0139.hs2668	324	9:43	14:26:08.5	55:21:55	600	90	3.0	#122 Halo Star	4	
0140.COMP	10	9:48	14:26:08.5	55:21:55	600	90	3.0	#122 Halo Star	4	
0141.hs2671	588	9:49	14:27:27.9	52:59:43	600	90	3.0	#122 Halo Star	4	
0142.COMP	10	9:59	14:27:27.9	52:59:43	600	90	3.0	#122 Halo Star	4	
0143.hs2684	520	10:00	14:34:19.1	53:19:16	600	90	3.0	#122 Halo Star	4	
0144.COMP	10	10:09	14:34:19.1	53:19:16	600	90	3.0	#122 Halo Star	4	
0145.hs2662	456	10:10	14:22:01.2	52:41:10	600	90	2.0	#122 Halo Star	4	
0146.COMP	10	10:18	14:22:01.2	52:41:10	600	90	2.0	#122 Halo Star	4	
0147.hs2676	330	10:18	14:30:16.8	52:43:55	600	90	2.0	#122 Halo Star	4	
0148.COMP	10	10:24	14:30:16.8	52:43:55	600	90	2.0	#122 Halo Star	4	
0149.hs2661	402	10:25	14:22:01.0	51:13:37	600	90	2.0	#122 Halo Star	4	
0150.COMP	10	10:32	14:22:01.0	51:13:37	600	90	2.0	#122 Halo Star	4	
0151.hs2670	258	10:33	14:27:18.2	52:33:55	600	90	2.0	#122 Halo Star	4	
0152.COMP	10	10:37	14:27:18.2	52:33:55	600	90	2.0	#122 Halo Star	4	
0153.hs2658	348	10:38	14:20:29.4	48:57:23	600	90	2.0	#122 Halo Star	4	
0154.COMP	10	10:44	14:20:29.4	48:57:23	600	90	2.0	#122 Halo Star	4	
0155.hs2711	594	10:45	14:53:20.2	59:05:15	600	90	2.0	#122 Halo Star	4	
0156.COMP	10	10:55	14:53:20.2	59:05:15	600	90	2.0	#122 Halo Star	4	

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0157.hs2712	180	10:56	14:53:27.2	66:15:12	600	90	2.0	#122 Halo Star	4	
0158.COMP	10	10:59	14:53:27.2	66:15:12	600	90	2.0	#122 Halo Star	4	
0159.hs2721	500	11:00	14:58:04.8	66:41:05	600	90	2.0	#122 Halo Star	4	
0160.COMP	10	11:09	14:58:04.8	66:41:05	600	90	2.0	#122 Halo Star	4	
0161.hs2722	348	11:10	14:59:50.7	62:10:25	600	90	2.0	#122 Halo Star	4	
0162.COMP	10	11:16	14:59:50.7	62:10:25	600	90	2.0	#122 Halo Star	4	
0163.hs2704	516	11:18	14:50:12.6	58:25:35	600	90	2.0	#122 Halo Star	4	
0164.COMP	10	11:27	14:50:12.6	58:25:35	600	90	2.0	#122 Halo Star	4	
0165.hs2705	500	11:27	14:50:38.5	57:35:16	600	90	2.0	#122 Halo Star	4	
0166.COMP	10	11:36	14:50:38.5	57:35:16	600	90	2.0	#122 Halo Star	4	
0167.hs2708	276	11:37	14:51:16.7	55:36:45	600	90	2.0	#122 Halo Star	4	
0168.COMP	10	11:42	14:51:16.7	55:36:45	600	90	2.0	#122 Halo Star	4	
0169.hs2709	258	11:43	14:51:56.3	56:46:30	600	90	2.0	#122 Halo Star	4	
0170.COMP	10	11:47	14:51:56.3	56:46:30	600	90	2.0	#122 Halo Star	4	
0171.hs2713	180	11:48	14:53:44.1	57:01:05	600	90	2.0	#122 Halo Star	4	
0172.COMP	10	11:51	14:53:44.1	57:01:05	600	90	2.0	#122 Halo Star	4	
0173.BDp332642	60	11:53	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0174.COMP	10	11:55	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0175.FLAT	24	11:58	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	x10
0176-0184.FLAT	24	12:02	15:50:03.0	33:05:49	600	90	2.0	#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>
0185.BIAS	0	12:03	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	x10
0186-0194.BIAS	0	12:04	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0195.DARK	900	12:05	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	x10
0196-0204.DARK	900	14:21	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	