



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	2:33	18:58:47.3	+77:6:18	600	70	2.0	#6 AGN Monitor	4	
0011.FLAT	24	2:33	18:58:47.3	+77:6:18	600	70	2.0	#6 AGN Monitor	4	600line 2arcsec for halo stars
0012-0020.FLAT	24	2:38	18:58:47.3	+77:6:18	600	70	2.0	#6 AGN Monitor	4	
0021.hs2169	360	3:21	12:08:12.4	19:02:38	600	90	2.0	#122 Halo Star	4	warren brown halo stars
0022.COMP	10	3:27	12:08:12.4	19:02:38	600	90	2.0	#122 Halo Star	4	
0023.hs2167	420	3:29	12:08:08.7	68:09:35	600	90	2.0	#122 Halo Star	4	
0024.COMP	10	3:37	12:08:08.7	68:09:35	600	90	2.0	#122 Halo Star	4	
0025.hs2170	300	3:38	12:08:21.1	64:07:53	600	90	2.0	#122 Halo Star	4	
0026.COMP	10	3:43	12:08:21.1	64:07:53	600	90	2.0	#122 Halo Star	4	
0027.hs2173	210	3:44	12:08:46.3	59:58:29	600	90	2.0	#122 Halo Star	4	
0028.COMP	10	3:48	12:08:46.3	59:58:29	600	90	2.0	#122 Halo Star	4	
0029.hs2181	150	3:59	12:10:33.9	58:40:38	600	90	2.0	#122 Halo Star	4	
0030.COMP	10	4:02	12:10:33.9	58:40:38	600	90	2.0	#122 Halo Star	4	
0031.hs2182	150	4:03	12:10:44.1	59:32:52	600	90	2.0	#122 Halo Star	4	
0032.COMP	10	4:06	12:10:44.1	59:32:52	600	90	2.0	#122 Halo Star	4	
0033.hs2182	360	4:07	12:10:44.1	59:32:52	600	90	2.0	#122 Halo Star	4	
0034.COMP	10	4:13	12:10:44.1	59:32:52	600	90	2.0	#122 Halo Star	4	
0035.hs2184	240	4:15	12:11:01.2	71:56:45	600	90	2.0	#122 Halo Star	4	
0036.COMP	10	4:19	12:11:01.2	71:56:45	600	90	2.0	#122 Halo Star	4	
0037.hs2180	600	4:21	12:10:27.1	28:13:16	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
0038.COMP	10	4:31	12:10:27.1	28:13:16	600	90	2.0	#122 Halo Star	4	
0039.hs2179	450	4:32	12:10:26.3	34:32:53	600	90	2.0	#122 Halo Star	4	
0040.COMP	10	4:40	12:10:26.3	34:32:53	600	90	2.0	#122 Halo Star	4	
0041.hs2178	480	4:43	12:10:01.1	30:17:35	600	90	2.0	#122 Halo Star	4	
0042.COMP	10	4:52	12:10:01.1	30:17:35	600	90	2.0	#122 Halo Star	4	
0043.hs2176	450	4:53	12:09:06.7	30:09:18	600	90	2.0	#122 Halo Star	4	
0044.COMP	10	5:01	12:09:06.7	30:09:18	600	90	2.0	#122 Halo Star	4	
0045.hs2177	360	5:03	12:09:57.2	71:15:57	600	90	2.0	#122 Halo Star	4	
0046.COMP	10	5:09	12:09:57.2	71:15:57	600	90	2.0	#122 Halo Star	4	
0047.hs2183	180	5:11	12:10:56.0	22:05:24	600	90	2.0	#122 Halo Star	4	
0048.COMP	10	5:14	12:10:56.0	22:05:24	600	90	2.0	#122 Halo Star	4	
0049.hs2185	390	5:16	12:11:09.2	44:48:02	600	90	2.0	#122 Halo Star	4	
0050.COMP	10	5:23	12:11:09.2	44:48:02	600	90	2.0	#122 Halo Star	4	
0051.hs2186	540	5:24	12:11:16.0	22:06:36	600	90	2.0	#122 Halo Star	4	
0052.COMP	10	5:33	12:11:16.0	22:06:36	600	90	2.0	#122 Halo Star	4	
0053.hs2187	450	5:34	12:11:27.7	21:40:27	600	90	2.0	#122 Halo Star	4	
0054.COMP	10	5:42	12:11:27.7	21:40:27	600	90	2.0	#122 Halo Star	4	
0055.hs2188	210	5:44	12:11:44.0	45:19:36	600	90	2.0	#122 Halo Star	4	
0056.COMP	10	5:47	12:11:44.0	45:19:36	600	90	2.0	#122 Halo Star	4	
0057.hs2190	570	5:49	12:12:11.5	62:10:49	600	90	2.0	#122 Halo Star	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0058.COMP	10	5:59	12:12:11.5	62:10:49	600	90	2.0	#122 Halo Star	4	
0059.hs2192	570	6:01	12:12:35.2	25:27:07	600	90	2.0	#122 Halo Star	4	
0060.COMP	10	6:10	12:12:35.2	25:27:07	600	90	2.0	#122 Halo Star	4	
0061.hs2193	270	6:12	12:12:38.4	26:38:11	600	90	2.0	#122 Halo Star	4	
0062.COMP	10	6:16	12:12:38.4	26:38:11	600	90	2.0	#122 Halo Star	4	
0063.hs2197	300	6:18	12:12:54.9	23:05:49	600	90	2.0	#122 Halo Star	4	
0064.COMP	10	6:23	12:12:54.9	23:05:49	600	90	2.0	#122 Halo Star	4	
0065.hs2198	180	6:24	12:13:03.0	44:31:44	600	90	2.0	#122 Halo Star	4	
0066.COMP	10	6:27	12:13:03.0	44:31:44	600	90	2.0	#122 Halo Star	4	
0067.hs2195	390	6:28	12:12:49.2	45:51:27	600	90	2.0	#122 Halo Star	4	
0068.COMP	10	6:35	12:12:49.2	45:51:27	600	90	2.0	#122 Halo Star	4	
0069.hs2196	600	6:36	12:12:54.7	40:45:42	600	90	2.0	#122 Halo Star	4	
0070.COMP	10	6:47	12:12:54.7	40:45:42	600	90	2.0	#122 Halo Star	4	
0071.hs2203	240	6:48	12:13:37.2	32:39:50	600	90	2.0	#122 Halo Star	4	
0072.COMP	10	6:53	12:13:37.2	32:39:50	600	90	2.0	#122 Halo Star	4	
0073.hs2211	300	6:54	12:14:48.5	36:38:49	600	90	2.0	#122 Halo Star	4	
0074.COMP	10	6:59	12:14:48.5	36:38:49	600	90	2.0	#122 Halo Star	4	
0075.hs2213	420	7:00	12:15:12.7	35:20:13	600	90	2.0	#122 Halo Star	4	
0076.COMP	10	7:08	12:15:12.7	35:20:13	600	90	2.0	#122 Halo Star	4	
0077.hs2261	450	7:09	12:23:24.9	36:31:08	600	90	2.0	#122 Halo Star	4	



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0078.COMP	10	7:17	12:23:24.9	36:31:08	600	90	2.0	#122 Halo Star	4	
0079.BDp332642	60	7:19	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	binby4
0080.BDp332642	60	7:20	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0081.COMP	10	7:22	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0082.BDp332642	60	7:23	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	2	binby2
0083.BDp332642	60	7:24	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	2	
0084.COMP	20	7:25	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	2	
0085.hs2541	210	7:33	13:36:02.5	46:31:19	600	90	2.0	#122 Halo Star	4	
0086.COMP	10	7:37	13:36:02.5	46:31:19	600	90	2.0	#122 Halo Star	4	
0087.hs2542	420	7:38	13:36:08.8	46:01:00	600	90	2.0	#122 Halo Star	4	
0088.COMP	10	7:45	13:36:08.8	46:01:00	600	90	2.0	#122 Halo Star	4	
0089.hs2547	240	7:47	13:36:59.0	47:04:47	600	90	2.0	#122 Halo Star	4	
0090.COMP	10	7:51	13:36:59.0	47:04:47	600	90	2.0	#122 Halo Star	4	
0091.hs2548	570	7:52	13:37:49.9	46:37:07	600	90	2.0	#122 Halo Star	4	
0092.COMP	10	8:01	13:37:49.9	46:37:07	600	90	2.0	#122 Halo Star	4	
0093.hs2559	330	8:03	13:40:08.8	47:51:51	600	90	2.0	#122 Halo Star	4	
0094.COMP	10	8:08	13:40:08.8	47:51:51	600	90	2.0	#122 Halo Star	4	
0095.hs2569	540	8:10	13:44:03.7	47:53:47	600	90	2.0	#122 Halo Star	4	
0096.COMP	10	8:19	13:44:03.7	47:53:47	600	90	2.0	#122 Halo Star	4	
0097.hs2808	210	8:21	16:00:48.6	69:34:41	600	90	2.0	#122 Halo Star	4	



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0098.COMP	10	8:25	16:00:48.6	69:34:41	600	90	2.0	#122 Halo Star	4	
0099.hs2833	510	8:26	16:16:53.4	67:06:39	600	90	2.0	#122 Halo Star	4	
0100.COMP	10	8:35	16:16:53.4	67:06:39	600	90	2.0	#122 Halo Star	4	
0101.hs2824	330	8:37	16:11:20.7	69:32:02	600	90	2.0	#122 Halo Star	4	
0102.COMP	10	8:43	16:11:20.7	69:32:02	600	90	2.0	#122 Halo Star	4	
0103.hs2827	420	8:44	16:13:15.5	67:19:06	600	90	2.0	#122 Halo Star	4	
0104.COMP	10	8:51	16:13:15.5	67:19:06	600	90	2.0	#122 Halo Star	4	
0105.hs2813	240	8:52	16:04:15.4	63:59:20	600	90	2.0	#122 Halo Star	4	
0106.COMP	10	8:56	16:04:15.4	63:59:20	600	90	2.0	#122 Halo Star	4	
0107.hs2817	390	8:57	16:08:59.6	63:00:28	600	90	2.0	#122 Halo Star	4	
0108.COMP	10	9:04	16:08:59.6	63:00:28	600	90	2.0	#122 Halo Star	4	
0109.hs2821	570	9:05	16:10:49.0	65:56:06	600	90	2.0	#122 Halo Star	4	
0110.COMP	10	9:15	16:10:49.0	65:56:06	600	90	2.0	#122 Halo Star	4	
0111.hs2826	570	9:17	16:12:27.1	63:16:15	600	90	2.0	#122 Halo Star	4	
0112.COMP	10	9:27	16:12:27.1	63:16:15	600	90	2.0	#122 Halo Star	4	
0113.hs2830	180	9:28	16:15:08.1	62:17:14	600	90	2.0	#122 Halo Star	4	
0114.COMP	10	9:31	16:15:08.1	62:17:14	600	90	2.0	#122 Halo Star	4	
0115.hs2834	420	9:32	16:17:03.4	61:40:00	600	90	2.0	#122 Halo Star	4	
0116.COMP	10	9:39	16:17:03.4	61:40:00	600	90	2.0	#122 Halo Star	4	
0117.hs2832	450	9:40	16:15:49.9	61:10:45	600	90	2.0	#122 Halo Star	4	



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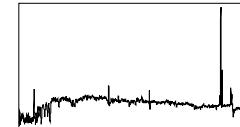
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0118.COMP	10	9:48	16:15:49.9	61:10:45	600	90	2.0	#122 Halo Star	4	
0119.hs2828	300	9:49	16:13:41.2	61:02:20	600	90	2.0	#122 Halo Star	4	
0120.COMP	10	9:54	16:13:41.2	61:02:20	600	90	2.0	#122 Halo Star	4	
0121.hs2825	420	9:55	16:11:37.8	60:25:07	600	90	2.0	#122 Halo Star	4	
0122.COMP	10	10:03	16:11:37.8	60:25:07	600	90	2.0	#122 Halo Star	4	
0123.hs2829	450	10:04	16:14:52.8	66:03:24	600	90	2.0	#122 Halo Star	4	
0124.COMP	10	10:12	16:14:52.8	66:03:24	600	90	2.0	#122 Halo Star	4	
0125.hs2819	420	10:12	16:10:00.5	64:17:23	600	90	2.0	#122 Halo Star	4	
0126.COMP	10	10:20	16:10:00.5	64:17:23	600	90	2.0	#122 Halo Star	4	
0127.hs2820	420	10:21	16:10:09.8	64:16:25	600	90	2.0	#122 Halo Star	4	
0128.COMP	10	10:28	16:10:09.8	64:16:25	600	90	2.0	#122 Halo Star	4	
0129.hs2823	240	10:29	16:11:09.7	60:52:51	600	90	2.0	#122 Halo Star	4	
0130.COMP	10	10:33	16:11:09.7	60:52:51	600	90	2.0	#122 Halo Star	4	
0131.hs2809	360	10:34	16:02:27.7	60:30:58	600	90	2.0	#122 Halo Star	4	
0132.COMP	10	10:41	16:02:27.7	60:30:58	600	90	2.0	#122 Halo Star	4	
0133.hs2811	330	10:42	16:03:58.8	59:36:56	600	90	2.0	#122 Halo Star	4	
0134.COMP	10	10:47	16:03:58.8	59:36:56	600	90	2.0	#122 Halo Star	4	
0135.hs2814	390	10:48	16:06:05.0	59:10:23	600	90	2.0	#122 Halo Star	4	
0136.COMP	10	10:55	16:06:05.0	59:10:23	600	90	2.0	#122 Halo Star	4	
0137.hs2822	600	10:56	16:10:56.7	59:11:14	600	90	2.0	#122 Halo Star	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>
0138.hs2822	600	11:07	16:10:56.7	59:11:14	600	90	2.0	#122 Halo Star	4	
0139.COMP	10	11:18	16:10:56.7	59:11:14	600	90	2.0	#122 Halo Star	4	
0140-0149.BIAS	0	11:26	20:00:00	32:00:00	600	90	2.0	#6 AGN Monitor	4	
0150-0159.FLAT	24	11:31	20:00:00	32:00:00	600	90	2.0	#6 AGN Monitor	4	
0160-0169.DARK	900	14:05	20:00:00	32:00:00	600	90	2.0	#6 AGN Monitor	4	
0170-0179.DARK	900	16:38	20:00:00	32:00:00	600	90	2.0	#6 AGN Monitor	2	