

UT Date 2004-03-29 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	1:33	12:57:25	25:19:27	300	90	3.0	#64 Cluster In	4	
0011-0020.BIAS	0	1:50	12:57:25	25:19:27	300	90	3.0	#64 Cluster In	4	
0021-0030.FLAT	6	1:54	12:57:25	25:19:27	300	90	3.0	#64 Cluster In	4	
0031-0040.BIAS	0	1:56	12:57:25	25:19:27	300	90	3.0	#64 Cluster In	2	
0041-0050.FLAT	12	2:00	12:57:25	25:19:27	300	90	3.0	#64 Cluster In	2	
0051.Hiltner600	70	2:28	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0052.Hiltner600	70	2:30	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0053.COMP	5	2:31	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0054.Hiltner600	70	2:33	06:42:37.2	02:11:25	300	21	3.0	#56 Spectropho	2	
0055.Hiltner600	70	2:34	06:42:37.2	02:11:25	300	21	3.0	#56 Spectropho	2	
0056.COMP	12	2:36	06:42:37.2	02:11:25	300	21	3.0	#56 Spectropho	2	
0057.vso-74522	780	2:43	05:29:41.6	+01:05:43	300	90	3.0	#112 Orion PMS	2	
0058.COMP	12	2:56	05:29:41.6	+01:05:43	300	90	3.0	#112 Orion PMS	2	
0059.vso-78001	900	2:57	05:31:43.6	+01:17:55	300	90	3.0	#112 Orion PMS	2	
0060.COMP	12	3:13	05:31:43.6	+01:17:55	300	90	3.0	#112 Orion PMS	2	
0061.vso-78580	1080	3:15	05:30:53.8	+01:59:25	300	90	3.0	#112 Orion PMS	2	
0062.COMP	12	3:33	05:30:53.8	+01:59:25	300	90	3.0	#112 Orion PMS	2	
0063.vso-80840	1200	3:35	05:33:28.1	+01:00:11	300	90	3.0	#112 Orion PMS	2	
0064.COMP	12	3:55	05:33:28.1	+01:00:11	300	90	3.0	#112 Orion PMS	2	
0065.vso-90217	1200	3:57	05:37:22.2	+02:02:39	300	90	3.0	#112 Orion PMS	2	

UT Date 2004-03-29 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0066.COMP	12	4:17	05:37:22.2	+02:02:39	300	90	3.0	#112 Orion PMS	2	
0067.vso-90667	1200	4:20	05:39:01.4	+01:11:00	300	110	3.0	#112 Orion PMS	2	
0068.COMP	12	4:40	05:39:01.4	+01:11:00	300	110	3.0	#112 Orion PMS	2	
0069.HD84937	7	4:45	09:48:56.1	13:44:39	300	0	3.0	#56 Spectropho	2	
0070.HD84937	7	4:46	09:48:56.1	13:44:39	300	0	3.0	#56 Spectropho	2	
0071.HD84937	7	4:46	09:48:56.1	13:44:39	300	0	3.0	#56 Spectropho	2	
0072.COMP	12	4:47	09:48:56.1	13:44:39	300	0	3.0	#56 Spectropho	2	
0073.sn2004at	1200	4:50	10:58:45.1	+59:29:12	300	29	3.0	#2 SN Observat	2	
0074.COMP	12	5:10	10:58:45.1	+59:29:12	300	29	3.0	#2 SN Observat	2	
0075.sn2004as	1200	5:13	11:25:39.1	+22:49:49	300	-55	3.0	#2 SN Observat	2	
0076.COMP	12	5:34	11:25:39.1	+22:49:49	300	-55	3.0	#2 SN Observat	2	
0077.sn2004aw	1200	5:36	11:57:50.2	+25:15:55	300	-60	3.0	#2 SN Observat	2	row=75
0078.COMP	12	5:57	11:57:50.2	+25:15:55	300	-60	3.0	#2 SN Observat	2	
0079.MRK110	360	6:00	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	2	
0080.COMP	12	6:07	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	2	
0081.N3227	150	6:08	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0082.N3227	150	6:11	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0083.COMP	12	6:14	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0084.MRK421	300	6:16	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421 an	2	
0085.MRK421	300	6:21	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421 an	2	

UT Date 2004-03-29 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0086.MRK421	300	6:27	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421 an	2	
0087.COMP	12	6:32	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421 an	2	
0088.N4051	150	6:33	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0089.N4051	150	6:36	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0090.N4051	150	6:39	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0091.COMP	12	6:42	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0092.N4151	30	6:43	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0093.N4151	30	6:44	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0094.COMP	12	6:45	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0095.M87	180	6:46	12:30:49.4	12:23:28	300	90	3.0	#6 AGN Monitor	2	
0096.M87	180	6:50	12:30:49.4	12:23:28	300	90	3.0	#6 AGN Monitor	2	
0097.COMP	12	6:53	12:30:49.4	12:23:28	300	90	3.0	#6 AGN Monitor	2	
0098.cairnsk5_093	1080	6:55	12:56:25.4	24:24:6	300	90	3.0	#64 Cluster In	2	
0099.COMP	12	7:14	12:56:25.4	24:24:6	300	90	3.0	#64 Cluster In	2	
0100.cairnsk5_094	1200	7:15	13:22:32.8	26:8:29	300	90	3.0	#64 Cluster In	2	
0101.COMP	12	7:35	13:22:32.8	26:8:29	300	90	3.0	#64 Cluster In	2	
0102.cairnsk5_095	780	7:37	12:37:2	27:16:52	300	90	3.0	#64 Cluster In	2	
0103.COMP	12	7:50	12:37:2	27:16:52	300	90	3.0	#64 Cluster In	2	
0104.cairnsk5_118	900	7:52	13:15:40.2	30:35:20	300	90	3.0	#64 Cluster In	2	H-alpha emission
0105.COMP	12	8:07	13:15:40.2	30:35:20	300	90	3.0	#64 Cluster In	2	

UT Date 2004-03-29 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0106.cairnsk5_119	960	8:09	13:15:50.6	23:47:56	300	90	3.0	#64 Cluster In	2	
0107.COMP	12	8:26	13:15:50.6	23:47:56	300	90	3.0	#64 Cluster In	2	
0108.cairnsk5_125	780	8:27	12:57:25	25:19:27	300	90	3.0	#64 Cluster In	2	
0109.COMP	12	8:40	12:57:25	25:19:27	300	90	3.0	#64 Cluster In	2	
0110.cairnsk5_126	600	8:42	13:15:18.9	28:28:23	300	70	3.0	#64 Cluster In	2	
0111.COMP	12	8:52	13:15:18.9	28:28:23	300	70	3.0	#64 Cluster In	2	
0112.cairnsk5_127	780	8:54	13:21:0.6	31:0:48	300	90	3.0	#64 Cluster In	2	need more counts
0113.COMP	12	9:07	13:21:0.6	31:0:48	300	90	3.0	#64 Cluster In	2	
0114.cairnsk5_127	1080	9:09	13:21:0.6	31:0:48	300	90	3.0	#64 Cluster In	2	
0115.COMP	12	9:27	13:21:0.6	31:0:48	300	90	3.0	#64 Cluster In	2	
0116.FineFoc	60	9:30	14:54:52.5	31:25:24	300	90	3.0	#112 Orion PMS	1	
0117.hs2475	450	9:43	13:14:01.9	76:24:38	600	90	2.0	#122 Halo Star	4	600L, 2arcsec, tilt=440
0118.COMP	10	9:51	13:14:01.9	76:24:38	600	90	2.0	#122 Halo Star	4	
0119.hs2476	234	9:53	13:14:38.3	53:18:09	600	90	2.0	#122 Halo Star	4	
0120.COMP	10	9:57	13:14:38.3	53:18:09	600	90	2.0	#122 Halo Star	4	
0121.hs2477	414	9:58	13:15:09.6	62:00:22	600	90	2.0	#122 Halo Star	4	
0122.COMP	10	10:06	13:15:09.6	62:00:22	600	90	2.0	#122 Halo Star	4	
0123.hs2478	186	10:08	13:15:12.9	70:41:41	600	90	2.0	#122 Halo Star	4	
0124.COMP	10	10:11	13:15:12.9	70:41:41	600	90	2.0	#122 Halo Star	4	
0125.hs2479	204	10:12	13:15:15.2	71:47:13	600	90	2.0	#122 Halo Star	4	

UT Date 2004-03-29 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0126.COMP	10	10:16	13:15:15.2	71:47:13	600	90	2.0	#122 Halo Star	4	
0127.hs2480	288	10:17	13:15:27.5	53:00:09	600	90	2.0	#122 Halo Star	4	
0128.COMP	10	10:22	13:15:27.5	53:00:09	600	90	2.0	#122 Halo Star	4	
0129.hs2481	450	10:23	13:15:50.9	56:23:13	600	90	2.0	#122 Halo Star	4	
0130.COMP	10	10:31	13:15:50.9	56:23:13	600	90	2.0	#122 Halo Star	4	
0131.hs2482	276	10:32	13:16:08.5	50:52:39	600	90	2.0	#122 Halo Star	4	
0132.COMP	10	10:37	13:16:08.5	50:52:39	600	90	2.0	#122 Halo Star	4	
0133.hs2483	348	10:39	13:16:40.0	67:57:12	600	90	2.0	#122 Halo Star	4	
0134.COMP	10	10:45	13:16:40.0	67:57:12	600	90	2.0	#122 Halo Star	4	
0135.hs2484	174	10:46	13:17:08.7	35:42:48	600	90	2.0	#122 Halo Star	4	
0136.COMP	10	10:50	13:17:08.7	35:42:48	600	90	2.0	#122 Halo Star	4	
0137.hs2485	606	11:02	13:17:49.3	76:32:32	600	90	2.0	#122 Halo Star	4	
0138.COMP	10	11:12	13:17:49.3	76:32:32	600	90	2.0	#122 Halo Star	4	
0139.hs2486	486	11:14	13:18:11.9	44:20:44	600	90	2.0	#122 Halo Star	4	
0140.COMP	10	11:22	13:18:11.9	44:20:44	600	90	2.0	#122 Halo Star	4	
0141.hs2487	540	11:24	13:18:24.6	41:00:52	600	90	2.0	#122 Halo Star	4	
0142.COMP	10	11:33	13:18:24.6	41:00:52	600	90	2.0	#122 Halo Star	4	
0143.BDp332642	70	11:34	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0144.COMP	10	11:36	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0145-0154.FLAT	40	11:44	15:50:03.0	33:05:49	600	90	2.0	#122 Halo Star	4	

UT Date 2004-03-29 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0155.sn2004ao	1200	11:51	17:28:09.3	+07:24:55	300	-17	3.0	#2 SN Observat	2	combo setup
0156.COMP	12	12:12	17:28:09.3	+07:24:55	300	-17	3.0	#2 SN Observat	2	
0157.BDp332642	50	12:15	15:50:03.0	33:05:49	300	88	3.0	#56 Spectropho	2	
0158.COMP	12	12:17	15:50:03.0	33:05:49	300	88	3.0	#56 Spectropho	2	
0159.N5548	240	12:18	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0160.N5548	240	12:23	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0161.COMP	12	12:27	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0162-0166.sky	2	13:03	14:17:59.6	+25:08:12	300	90	3.0	#57 Velocity S	4	
0167.COMP	5	13:04	14:17:59.6	+25:08:12	300	90	3.0	#57 Velocity S	4	
0168-0177.BIAS	0	13:05	14:17:59.6	+25:08:12	300	90	3.0	#57 Velocity S	4	
0178-0187.FLAT	6	13:09	14:17:59.6	+25:08:12	300	90	3.0	#57 Velocity S	4	
0188-0197.BIAS	0	13:12	14:17:59.6	+25:08:12	300	90	3.0	#57 Velocity S	2	
0198-0207.FLAT	12	13:16	14:17:59.6	+25:08:12	300	90	3.0	#57 Velocity S	2	
0208-0217.DARK	900	15:34	14:17:59.6	+25:08:12	300	90	3.0	#57 Velocity S	2	