

UT Date 2013-11-02 Observers P BerlindColl. Focus 1350 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001-0010.BIAS | 0 | 00:23 | 22:37:04.1 | +34:24:56 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0011-0025.FLAT | 7 | 00:29 | 22:37:04.1 | +34:24:56 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0026.COMP | 10 | 00:43 | 22:37:04.1 | +34:24:56 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0027.BDp174708 | 90 | 01:30 | 22:11:31.4 | +18:05:34 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0028.BDp174708 | 90 | 01:32 | 22:11:31.4 | +18:05:34 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0029.COMP | 10 | 01:34 | 22:11:31.4 | +18:05:34 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0030.BDp284211 | 150 | 01:35 | 21:51:11.0 | +28:51:50 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0031.BDp284211 | 150 | 01:38 | 21:51:11.0 | +28:51:50 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0032.COMP | 10 | 01:41 | 21:51:11.0 | +28:51:50 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0033.nback22 | 720 | 01:42 | 21:37:07.3 | +10:05:02 | 300 | 88 | 3.0 | #216 Local Com | 2 | |
| 0034.COMP | 10 | 01:55 | 21:37:07.3 | +10:05:02 | 300 | 83 | 3.0 | 0 Calibration | 2 | |
| 0035.nback08 | 606 | 01:56 | 21:37:21.5 | +10:41:30 | 300 | 83 | 3.0 | #216 Local Com | 2 | |
| 0036.COMP | 10 | 02:07 | 21:37:21.5 | +10:41:30 | 300 | 84 | 3.0 | 0 Calibration | 2 | |
| 0037.sn2013fn | 1800 | 02:09 | 21:00:23.8 | -14:29:52 | 300 | 84 | 3.0 | #2 SN Observat | 2 | |
| 0038.COMP | 10 | 02:39 | 21:00:23.8 | -14:29:52 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0039.A00650.1 | 720 | 02:40 | 20:55:23.4 | -05:40:51 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0040.COMP | 10 | 02:53 | 20:55:23.4 | -05:40:51 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0041.nback01 | 330 | 02:54 | 20:56:37.1 | -05:36:38 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0042.COMP | 10 | 03:00 | 20:56:37.1 | -05:36:38 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0043.A02116.1 | 720 | 03:01 | 21:57:06.7 | -07:06:03 | 300 | 89 | 3.0 | #216 Local Com | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0044.COMP | 10 | 03:14 | 21:57:06.7 | -07:06:03 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0045.A00140.1 | 720 | 03:15 | 22:15:28.6 | -08:19:44 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0046.COMP | 10 | 03:27 | 22:15:28.6 | -08:19:44 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0047.sn2013fw | 1800 | 03:30 | 21:13:44.8 | +13:34:33 | 300 | 66 | 3.0 | #2 SN Observat | 2 | |
| 0048.COMP | 10 | 04:01 | 21:13:44.8 | +13:34:33 | 300 | 65 | 3.0 | 0 Calibration | 2 | |
| 0049.N7331 | 180 | 04:05 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0050.COMP | 10 | 04:08 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0051.Asteroid.69.Hesperia | 120 | 04:10 | 23:58:31.8 | -01:36:27 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0052.Asteroid.69.Hesperia | 120 | 04:13 | 23:58:31.8 | -01:36:27 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0053.Asteroid.69.Hesperia | 120 | 04:15 | 23:58:31.8 | -01:36:27 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0054.COMP | 10 | 04:17 | 23:58:31.8 | -01:36:27 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0055.Asteroid.94.Aurora | 150 | 04:20 | 23:59:38.9 | +02:07:58 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0056.Asteroid.94.Aurora | 150 | 04:22 | 23:59:38.9 | +02:07:58 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0057.Asteroid.94.Aurora | 150 | 04:25 | 23:59:38.9 | +02:07:58 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0058.COMP | 10 | 04:28 | 23:59:38.9 | +02:07:58 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0059.HD1461 | 2 | 04:29 | 00:18:41.9 | -08:03:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0060.HD1461 | 4 | 04:30 | 00:18:41.9 | -08:03:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0061.HD1461 | 4 | 04:30 | 00:18:41.9 | -08:03:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0062.HD1461 | 4 | 04:31 | 00:18:41.9 | -08:03:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0063.HD1461 | 4 | 04:31 | 00:18:41.9 | -08:03:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0064.HD1461 | 4 | 04:31 | 00:18:41.9 | -08:03:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0065.COMP | 10 | 04:32 | 00:18:41.9 | -08:03:11 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0067.Asteroid.162566.RJ34 | 1200 | 04:35 | 01:08:22.9 | +43:36:39 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0068.COMP | 10 | 04:56 | 01:08:22.9 | +43:36:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0069.Asteroid.162566.RJ34 | 721 | 04:57 | 01:08:22.9 | +43:36:39 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0070.Asteroid.162566.RJ34 | 1200 | 05:18 | 01:08:22.9 | +43:36:39 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0071.COMP | 10 | 05:38 | 01:08:22.9 | +43:36:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0072.Asteroid.251346.SJ | 1200 | 05:41 | 01:28:43.8 | +40:57:03 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0073.COMP | 10 | 06:01 | 01:28:43.8 | +40:57:03 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0074.Asteroid.251346.SJ | 1200 | 06:02 | 01:28:43.8 | +40:57:03 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0075.COMP | 10 | 06:22 | 01:28:43.8 | +40:57:03 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0076.Asteroid.251346.SJ | 1200 | 06:23 | 01:28:43.8 | +40:57:03 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0077.COMP | 10 | 06:43 | 01:28:43.8 | +40:57:03 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0078.HD10307 | 1 | 06:44 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0079.HD10307 | 1 | 06:45 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0080.HD10307 | 1 | 06:45 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0081.HD10307 | 1 | 06:45 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0082.HD10307 | 1 | 06:45 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0083.COMP | 10 | 06:46 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0084.M33.VarC.W31284 | 900 | 06:49 | 01:33:35.1 | +30:36:01 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0085.COMP | 10 | 07:04 | 01:33:35.1 | +30:36:01 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0086.nback18 | 1800 | 07:10 | 00:41:42.6 | -09:26:16 | 300 | 74 | 3.0 | #216 Local Com | 2 | |
| 0087.COMP | 10 | 07:42 | 00:41:42.6 | -09:26:16 | 300 | 73 | 3.0 | 0 Calibration | 2 | |
| 0088.A00638.1 | 1200 | 07:43 | 00:55:53.3 | -09:53:36 | 300 | 73 | 3.0 | #216 Local Com | 2 | |
| 0089.COMP | 10 | 08:04 | 00:55:53.3 | -09:53:36 | 300 | 74 | 3.0 | 0 Calibration | 2 | |
| 0090.A02276.1 | 1800 | 08:10 | 03:57:10.6 | -00:41:26 | 300 | 80 | 3.0 | #216 Local Com | 2 | |
| 0091.COMP | 10 | 08:40 | 03:57:10.6 | -00:41:26 | 300 | 81 | 3.0 | 0 Calibration | 2 | |
| 0092.kinmanca11 | 20 | 08:46 | 03:45:26.1 | +24:02:07 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0093.kinmanca11 | 20 | 08:47 | 03:45:26.1 | +24:02:07 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0094.COMP | 10 | 08:47 | 03:45:26.1 | +24:02:07 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0095.kinmanca2 | 30 | 08:49 | 03:46:39.3 | +24:06:12 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0096.kinmanca2 | 30 | 08:50 | 03:46:39.3 | +24:06:12 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0097.COMP | 10 | 08:51 | 03:46:39.3 | +24:06:12 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0098.kinmanca3 | 60 | 08:52 | 03:47:52.5 | +23:56:28 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0099.kinmanca3 | 60 | 08:53 | 03:47:52.5 | +23:56:28 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0100.COMP | 10 | 08:55 | 03:47:52.5 | +23:56:28 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0101.kinman2 | 840 | 08:56 | 04:28:32.4 | +16:58:22 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0102.COMP | 10 | 09:11 | 04:28:32.4 | +16:58:22 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0103.COMP | 10 | 09:12 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0104.lmwd526 | 1100 | 09:13 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | #178 Low Mass | 4 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0105.COMP | 10 | 09:32 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0106.lmwd526 | 1100 | 09:33 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | #178 Low Mass | 4 | |
| 0107.COMP | 10 | 09:52 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0108.lmwd526 | 1100 | 09:52 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | #178 Low Mass | 4 | |
| 0109.COMP | 10 | 10:11 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0110.lmwd526 | 1100 | 10:12 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | #178 Low Mass | 4 | |
| 0111.COMP | 10 | 10:30 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0112.lmwd526 | 1100 | 10:31 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | #178 Low Mass | 4 | |
| 0113.COMP | 10 | 10:50 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0114.lmwd526 | 1100 | 10:50 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | #178 Low Mass | 4 | |
| 0115.COMP | 10 | 11:09 | 07:26:59.5 | +33:17:09 | 600 | 91 | 1.5 | 0 Calibration | 4 | |
| 0116.lmwd526 | 1100 | 11:11 | 07:26:59.5 | +33:17:09 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0117.COMP | 10 | 11:29 | 07:26:59.5 | +33:17:09 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0118.lmwd526 | 1100 | 11:30 | 07:26:59.5 | +33:17:09 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0119.COMP | 10 | 11:49 | 07:26:59.5 | +33:17:09 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0120.lmwd526 | 1100 | 11:50 | 07:26:59.5 | +33:17:09 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0121.COMP | 10 | 12:09 | 07:26:59.5 | +33:17:09 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0122.lmwd526 | 1100 | 12:09 | 07:26:59.5 | +33:17:09 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0123.COMP | 10 | 12:28 | 07:26:59.5 | +33:17:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0124.Feige34 | 180 | 12:30 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | #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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0125.COMP | 10 | 12:34 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0126.kinman6 | 240 | 12:35 | 10:28:41.9 | +57:08:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0127.COMP | 10 | 12:40 | 10:28:41.9 | +57:08:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0128-0137.BIAS | 0 | 12:46 | 08:07:43.0 | +31:33:15 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0138-0152.FLAT | 12 | 12:51 | 08:07:43.0 | +31:33:15 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0153-0157.DARK | 1200 | 14:21 | 08:07:43.0 | +31:33:15 | 600 | 89 | 1.5 | 0 Calibration | 4 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------------|----------|----------|------------|-----------|------|------|------|----------------|-----|-------------------|
| 0001-0010.BIAS | 0 | 00:44 | 08:07:43.0 | +31:33:15 | 600 | 89 | 1.5 | 0 Calibration | 2 | |
| 0011-0020.BIAS | 0 | 00:48 | 08:07:43.0 | +31:33:15 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0021.FLAT | 12 | 00:50 | 08:07:43.0 | +31:33:15 | 600 | 89 | 1.5 | 0 Calibration | 4 | 600gpm, 1.5-sec |
| 0022-0035.FLAT | 12 | 00:54 | 08:07:43.0 | +31:33:15 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0036.kinman1 | 600 | 01:38 | 19:44:43.4 | -07:49:59 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0037.kinman1 | 435 | 01:48 | 19:44:43.4 | -07:49:59 | 600 | 89 | 1.5 | #178 Low Mass | 4 | stopped by clouds |
| 0038.COMP | 10 | 01:56 | 19:44:43.4 | -07:49:59 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0039.test | 10 | 02:01 | 21:50:00.0 | +32:00:00 | 1200 | 89 | 2.0 | #176 Be/X-ray | 2 | |
| 0040-0049.FLAT | 15 | 02:07 | 21:50:00.0 | +32:00:00 | 1200 | 89 | 2.0 | 0 Calibration | 2 | |
| 0050.SAXJ21035p4545 | 588 | 02:09 | 21:03:35.7 | +45:45:05 | 1200 | 89 | 2.0 | #176 Be/X-ray | 2 | |
| 0051.COMP | 10 | 02:21 | 21:03:35.7 | +45:45:05 | 1200 | 89 | 2.0 | 0 Calibration | 2 | |
| 0053.SAXJ21035p4545 | 1502 | 02:33 | 21:03:35.7 | +45:45:05 | 1200 | 89 | 2.0 | #176 Be/X-ray | 2 | |
| 0054.COMP | 10 | 02:58 | 21:03:35.7 | +45:45:05 | 1200 | 89 | 2.0 | 0 Calibration | 2 | |
| 0055.IGRJ2134.2p4738 | 583 | 03:02 | 21:34:20.4 | +47:38:00 | 1200 | 89 | 2.0 | #176 Be/X-ray | 2 | stopped by clouds |
| 0056.COMP | 10 | 03:12 | 21:34:20.4 | +47:38:00 | 1200 | 89 | 2.0 | 0 Calibration | 2 | |
| 0058.test | 10 | 03:35 | 22:37:04.1 | +34:24:56 | 300 | 89 | 3.0 | #57 Velocity S | 2 | |
| 0059-0068.BIAS | 0 | 03:37 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0069-0076.FLAT | 7 | 03:40 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0077.FLAT | 7 | 03:41 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | rain delay |
| 0078-0083.FLAT | 7 | 03:43 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-03 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-------------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0084.back07 | 600 | 10:26 | 08:00:29.1 | +28:59:23 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0085.COMP | 10 | 10:37 | 08:00:29.1 | +28:59:23 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0086.A00946.1 | 180 | 10:38 | 08:33:55.6 | +20:47:08 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0087.COMP | 10 | 10:42 | 08:33:55.6 | +20:47:08 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0091.Comet.C2013.R1 | 300 | 11:19 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | #173 Small Sol | 2 | Lovejoy |
| 0092.COMP | 10 | 11:25 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0093.Comet.C2013.R1 | 300 | 11:25 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0094.COMP | 10 | 11:31 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0095.Comet.C2013.R1 | 300 | 11:32 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0096.COMP | 10 | 11:37 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0097.Comet.C2013.R1.offsetsky | 300 | 11:39 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0098.COMP | 10 | 11:45 | 08:18:26.3 | +13:44:55 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0099.SA98.978 | 60 | 11:46 | 06:51:34.0 | -00:11:33 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0100.SA98.978 | 60 | 11:48 | 06:51:34.0 | -00:11:33 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0101.SA98.978 | 60 | 11:49 | 06:51:34.0 | -00:11:33 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0102.COMP | 10 | 11:50 | 06:51:34.0 | -00:11:33 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0103.A00131.1 | 873 | 11:52 | 08:26:02.1 | +08:08:52 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0104.COMP | 10 | 12:07 | 08:26:02.1 | +08:08:52 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0105.A00157.1 | 600 | 12:09 | 08:29:58.3 | +09:57:50 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0106.COMP | 10 | 12:20 | 08:29:58.3 | +09:57:50 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

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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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0107.A00803.3 | 540 | 12:21 | 08:37:50.5 | -00:15:44 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0108.COMP | 10 | 12:31 | 08:37:50.5 | -00:15:44 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0109.A00435.2 | 482 | 12:32 | 08:38:18.7 | +04:21:08 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0110.COMP | 10 | 12:40 | 08:38:18.7 | +04:21:08 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0111.Feige34 | 180 | 12:42 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0112.COMP | 10 | 12:45 | 10:39:36.7 | +43:06:09 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0113.HD84937 | 45 | 12:48 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | #56 Spectropho | 2 | |
| 0114.HD84937 | 45 | 12:49 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | #56 Spectropho | 2 | |
| 0115.COMP | 10 | 12:50 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0116-0125.BIAS | 0 | 12:54 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0126-0140.FLAT | 7 | 12:59 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0141-0145.DARK | 900 | 14:05 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0146-0150.DARK | 900 | 15:22 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 4 | |

UT Date 2013-11-04 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------|
| 0001-0010.BIAS | 0 | 00:31 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0011.FLAT | 7 | 00:32 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 2 | 300-line, 3-sec |
| 0012-0025.FLAT | 7 | 00:37 | 09:48:56.1 | +13:44:39 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0026.sky | 5 | 00:45 | 20:10:00.0 | +32:00:00 | 300 | 85 | 3.0 | #57 Velocity S | 2 | clear skies |
| 0027-0030.sky | 5 | 00:46 | 20:10:00.0 | +32:00:00 | 300 | 85 | 3.0 | #57 Velocity S | 2 | |
| 0031.COMP | 10 | 00:48 | 20:10:00.0 | +32:00:00 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0032.DASCH_J2021+3218 | 10 | 01:20 | 20:21:33.1 | +32:18:51 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0033.DASCH_J2021+3218 | 20 | 01:20 | 20:21:33.1 | +32:18:51 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0034.COMP | 10 | 01:21 | 20:21:33.1 | +32:18:51 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0035.DASCH_J2123+4115 | 30 | 01:22 | 21:23:26.5 | +41:15:59 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0036.DASCH_J2123+4115 | 30 | 01:23 | 21:23:26.5 | +41:15:59 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0037.COMP | 10 | 01:24 | 21:23:26.5 | +41:15:59 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0038.DASCH_J1924+2621 | 60 | 01:26 | 19:24:33.1 | +26:21:44 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0039.DASCH_J1924+2621 | 60 | 01:27 | 19:24:33.1 | +26:21:44 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0040.COMP | 10 | 01:28 | 19:24:33.1 | +26:21:44 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0041.DASCH_J1943+4140 | 120 | 01:29 | 19:43:28.7 | +41:40:07 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0042.DASCH_J1943+4140 | 120 | 01:32 | 19:43:28.7 | +41:40:07 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0043.COMP | 10 | 01:34 | 19:43:28.7 | +41:40:07 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0044.K4644922 | 150 | 01:35 | 19:15:12.1 | +39:42:50 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |
| 0045.K4644922 | 150 | 01:38 | 19:15:12.1 | +39:42:50 | 300 | 85 | 3.0 | #192 DASCH Lon | 2 | |

UT Date 2013-11-04 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------|
| 0046.COMP | 10 | 01:41 | 19:15:12.1 | +39:42:50 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0047.DASCH_J1847-1845 | 15 | 01:43 | 18:47:33.4 | -18:45:15 | 300 | 90 | 3.0 | #192 DASCH Lon | 2 | |
| 0048.DASCH_J1847-1845 | 30 | 01:44 | 18:47:33.4 | -18:45:15 | 300 | 90 | 3.0 | #192 DASCH Lon | 2 | |
| 0049.COMP | 10 | 01:44 | 18:47:33.4 | -18:45:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0050.DASCH_J2036+0223 | 63 | 01:46 | 20:36:36.4 | +02:23:49 | 300 | 90 | 3.0 | #192 DASCH Lon | 2 | |
| 0051.COMP | 10 | 01:47 | 20:36:36.4 | +02:23:49 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0052.DASCH_J1822+4434 | 180 | 01:49 | 18:22:47.1 | +44:34:43 | 300 | 90 | 3.0 | #192 DASCH Lon | 2 | |
| 0053.DASCH_J1822+4434 | 180 | 01:53 | 18:22:47.1 | +44:34:43 | 300 | 90 | 3.0 | #192 DASCH Lon | 2 | |
| 0054.COMP | 10 | 01:56 | 18:22:47.1 | +44:34:43 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0055.DASCH_J1837+4451 | 180 | 01:57 | 18:37:13.4 | +44:51:38 | 300 | 89 | 3.0 | #192 DASCH Lon | 2 | |
| 0056.DASCH_J1837+4451 | 180 | 02:01 | 18:37:13.4 | +44:51:38 | 300 | 89 | 3.0 | #192 DASCH Lon | 2 | |
| 0057.COMP | 10 | 02:04 | 18:37:13.4 | +44:51:38 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0058.BDp284211 | 120 | 02:07 | 21:51:11.0 | +28:51:50 | 300 | 90 | 5.0 | #56 Spectropho | 2 | 300-line, 5-sec |
| 0059.BDp284211 | 120 | 02:10 | 21:51:11.0 | +28:51:50 | 300 | 87 | 5.0 | #56 Spectropho | 2 | |
| 0060.BDp284211 | 120 | 02:12 | 21:51:11.0 | +28:51:50 | 300 | 87 | 5.0 | #56 Spectropho | 2 | |
| 0061.COMP | 5 | 02:15 | 21:51:11.0 | +28:51:50 | 300 | 86 | 5.0 | 0 Calibration | 2 | |
| 0062-0066.FLAT | 4 | 02:17 | 21:51:11.0 | +28:51:50 | 300 | 86 | 5.0 | 0 Calibration | 2 | |
| 0067.BDp174708 | 90 | 02:19 | 22:11:31.4 | +18:05:34 | 300 | 86 | 3.0 | #56 Spectropho | 2 | 300-line, 3-sec |
| 0068.BDp174708 | 90 | 02:21 | 22:11:31.4 | +18:05:34 | 300 | 86 | 3.0 | #56 Spectropho | 2 | |
| 0069.BDp174708 | 90 | 02:22 | 22:11:31.4 | +18:05:34 | 300 | 86 | 3.0 | #56 Spectropho | 2 | |

UT Date 2013-11-04 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0070.COMP | 10 | 02:24 | 22:11:31.4 | +18:05:34 | 300 | 86 | 3.0 | 0 Calibration | 2 | |
| 0071.BDp284211 | 150 | 02:26 | 21:51:11.0 | +28:51:50 | 300 | 86 | 3.0 | #56 Spectropho | 2 | |
| 0072.COMP | 10 | 02:29 | 21:51:11.0 | +28:51:50 | 300 | 86 | 3.0 | 0 Calibration | 2 | |
| 0073.sn2013fw | 1800 | 02:31 | 21:13:44.8 | +13:34:33 | 300 | 66 | 3.0 | #2 SN Observat | 2 | |
| 0074.COMP | 10 | 03:01 | 21:13:44.8 | +13:34:33 | 300 | 66 | 3.0 | 0 Calibration | 2 | |
| 0075.A00178.1 | 900 | 03:03 | 21:38:31.4 | +10:59:43 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0076.COMP | 10 | 03:18 | 21:38:31.4 | +10:59:43 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0077.nback19 | 600 | 03:19 | 21:40:50.5 | +10:19:32 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0078.COMP | 10 | 03:30 | 21:40:50.5 | +10:19:32 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0079.nback15 | 600 | 03:31 | 21:41:25.3 | +10:25:29 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0080.COMP | 10 | 03:41 | 21:41:25.3 | +10:25:29 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0081.A01428.3 | 600 | 03:43 | 22:20:34.4 | -08:30:30 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0082.COMP | 10 | 03:53 | 22:20:34.4 | -08:30:30 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0083.A01652.1 | 600 | 03:54 | 22:36:26.0 | -09:39:19 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0084.COMP | 10 | 04:05 | 22:36:26.0 | -09:39:19 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0085.nback07 | 600 | 04:06 | 22:38:42.2 | -10:17:15 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0086.COMP | 10 | 04:17 | 22:38:42.2 | -10:17:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0087.A00806.1 | 600 | 04:18 | 22:47:09.5 | -09:18:35 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0088.COMP | 10 | 04:29 | 22:47:09.5 | -09:18:35 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0089.nback03 | 420 | 04:30 | 22:48:32.2 | -07:46:06 | 300 | 89 | 3.0 | #216 Local Com | 2 | |

UT Date 2013-11-04 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0090.COMP | 10 | 04:37 | 22:48:32.2 | -07:46:06 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0091.A00069.2 | 900 | 04:38 | 22:48:54.0 | -08:13:09 | 300 | 98 | 3.0 | #216 Local Com | 2 | |
| 0092.COMP | 10 | 04:54 | 22:48:54.0 | -08:13:09 | 300 | 98 | 3.0 | 0 Calibration | 2 | |
| 0093.A00074.1 | 600 | 04:56 | 00:50:27.6 | +15:56:12 | 300 | 91 | 3.0 | #216 Local Com | 2 | |
| 0094.COMP | 10 | 05:06 | 00:50:27.6 | +15:56:12 | 300 | 91 | 3.0 | 0 Calibration | 2 | |
| 0095.nback13 | 660 | 05:07 | 00:53:14.3 | +16:10:35 | 300 | 80 | 3.0 | #216 Local Com | 2 | |
| 0096.COMP | 10 | 05:19 | 00:53:14.3 | +16:10:35 | 300 | 81 | 3.0 | 0 Calibration | 2 | |
| 0097.nback05 | 720 | 05:20 | 00:53:32.7 | +15:36:45 | 300 | 89 | 3.0 | #216 Local Com | 2 | |
| 0098.COMP | 10 | 05:32 | 00:53:32.7 | +15:36:45 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0099.nback14 | 600 | 05:34 | 00:56:00.8 | -09:36:49 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0100.COMP | 10 | 05:44 | 00:56:00.8 | -09:36:49 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0101.HD10307 | 1 | 05:48 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0102.HD10307 | 1 | 05:48 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0103.HD10307 | 1 | 05:49 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0104.HD10307 | 1 | 05:49 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0105.HD10307 | 1 | 05:49 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0106.COMP | 10 | 05:49 | 01:41:47.2 | +42:36:48 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0107.Asteroid.142781.UM11 | 1200 | 05:51 | 02:03:48.6 | +35:52:58 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0108.COMP | 10 | 06:11 | 02:03:48.6 | +35:52:58 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0109.Asteroid.142781.UM11 | 1200 | 06:12 | 02:03:48.6 | +35:52:58 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |

UT Date 2013-11-04 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------|
| 0110.COMP | 10 | 06:32 | 02:03:48.6 | +35:52:58 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0111.Asteroid.142781.UM11 | 1200 | 06:33 | 02:03:48.6 | +35:52:58 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0112.COMP | 10 | 06:53 | 02:03:48.6 | +35:52:58 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0113.Asteroid.2013.RM43 | 1200 | 06:56 | 02:41:16.8 | +53:50:39 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0114.COMP | 10 | 07:16 | 02:41:16.8 | +53:50:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0115.Asteroid.2013.RM43 | 1200 | 07:17 | 02:41:16.8 | +53:50:39 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0116.COMP | 10 | 07:37 | 02:41:16.8 | +53:50:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0117.Asteroid.2013.RM43 | 1200 | 07:38 | 02:41:16.8 | +53:50:39 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0118.COMP | 10 | 07:58 | 02:41:16.8 | +53:50:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0119.nback20 | 1200 | 08:01 | 03:56:55.7 | +00:14:09 | 300 | 90 | 3.0 | #216 Local Com | 2 | humidity going up |
| 0120.COMP | 10 | 08:21 | 03:56:55.7 | +00:14:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0121.nback02 | 1800 | 08:23 | 03:59:56.9 | -00:47:47 | 300 | 90 | 3.0 | #216 Local Com | 2 | |
| 0122.COMP | 10 | 08:54 | 03:59:56.9 | -00:47:47 | 300 | 91 | 3.0 | 0 Calibration | 2 | |
| 0123.iPTF13dge | 1800 | 08:56 | 05:03:35.1 | +01:34:17 | 300 | 99 | 3.0 | #2 SN Observat | 2 | fogged out |
| 0124.COMP | 10 | 09:27 | 05:03:35.1 | +01:34:17 | 300 | 99 | 3.0 | 0 Calibration | 2 | |
| 0125.COMP | 10 | 09:31 | 07:36:16.2 | +16:22:56 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0126-0135.BIAS | 0 | 09:37 | 07:36:16.2 | +16:22:56 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0136.FLAT | 12 | 09:37 | 07:36:16.2 | +16:22:56 | 600 | 90 | 1.5 | 0 Calibration | 4 | 600-line, 1.5-sec |
| 0137-0150.FLAT | 12 | 09:42 | 07:36:16.2 | +16:22:56 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0151.test | 10 | 10:23 | 07:36:16.2 | +16:22:56 | 300 | 90 | 3.0 | #178 Low Mass | 2 | |

UT Date 2013-11-04 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| <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> |
|-------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0152.test | 10 | 10:24 | 07:36:16.2 | +16:22:56 | 300 | 90 | 3.0 | #178 Low Mass | 2 | |
| 0153.test | 10 | 10:25 | 07:36:16.2 | +16:22:56 | 300 | 90 | 3.0 | #178 Low Mass | 2 | |
| 0154.test | 10 | 10:26 | 07:36:16.2 | +16:22:56 | 300 | 90 | 3.0 | #178 Low Mass | 2 | |



UT Date 2013-11-05 Observers M Calkins

Coll. Focus 1350 Grating/Grism 300

| <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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0001-0005.DARK | 900 | 02:56 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0006-0015.BIAS | 0 | 03:18 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0016-0035.FLAT | 7 | 03:27 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0036-0045.BIAS | 0 | 03:38 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0046-0055.DARK | 900 | 14:40 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-06 Observers M CalkinsColl. Focus 1350 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--------------|
| 0001-0009.DARK | 900 | 00:51 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0010-0019.BIAS | 0 | 01:08 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0020-0039.FLAT | 7 | 01:17 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0040-0049.BIAS | 0 | 01:20 | 21:27:34.3 | +31:26:34 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0050.BDp284211 | 120 | 01:32 | 21:51:11.0 | +28:51:50 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0051.COMP | 10 | 01:35 | 21:51:11.0 | +28:51:50 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0052.BDp174708 | 30 | 01:37 | 22:11:31.4 | +18:05:34 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0053.COMP | 10 | 01:38 | 22:11:31.4 | +18:05:34 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0054.Kenfill141 | 900 | 01:43 | 21:16:07.1 | +02:47:38 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0055.COMP | 10 | 02:02 | 21:16:07.1 | +02:47:38 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0056.Kenfill142 | 1020 | 02:03 | 21:14:21.3 | +02:14:50 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0057.COMP | 10 | 02:21 | 21:14:21.3 | +02:14:50 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0058.Kenfill143 | 1800 | 02:23 | 21:15:13.6 | +02:42:25 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0059.COMP | 10 | 02:54 | 21:15:13.6 | +02:42:25 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0060.sn2013fw | 1800 | 03:08 | 21:13:44.8 | +13:34:33 | 300 | 71 | 3.0 | #2 SN Observat | 2 | |
| 0061.COMP | 10 | 03:38 | 21:13:44.8 | +13:34:33 | 300 | 70 | 3.0 | 0 Calibration | 2 | |
| 0062.Kenfill105 | 2700 | 03:42 | 23:09:55.4 | +07:51:58 | 300 | 90 | 3.0 | #210 Brightest | 2 | really faint |
| 0063.COMP | 10 | 04:27 | 23:09:55.4 | +07:51:58 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0064.Kenfill106 | 720 | 04:30 | 23:09:52.5 | +07:30:57 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0065.COMP | 10 | 04:42 | 23:09:52.5 | +07:30:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-06 Observers M CalkinsColl. Focus 1350 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0066.Kenfill107 | 1800 | 04:44 | 23:10:50.4 | +08:15:24 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0067.COMP | 10 | 05:14 | 23:10:50.4 | +08:15:24 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0068.Kenfill108 | 720 | 05:16 | 23:10:04.9 | +07:16:04 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0069.COMP | 10 | 05:29 | 23:10:04.9 | +07:16:04 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0070.Kenfill109 | 2100 | 05:31 | 23:10:59.8 | +07:11:55 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0071.COMP | 10 | 06:07 | 23:10:59.8 | +07:11:55 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0072.M31 | 60 | 06:09 | 00:42:44.3 | +41:16:09 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0073.COMP | 10 | 06:10 | 00:42:44.3 | +41:16:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0074.Kenfill001 | 1500 | 06:13 | 03:36:30.2 | +10:10:40 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0075.COMP | 10 | 06:38 | 03:36:30.2 | +10:10:40 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0076.Kenfill002 | 1080 | 06:39 | 03:38:37.0 | +09:08:13 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0077.COMP | 10 | 06:58 | 03:38:37.0 | +09:08:13 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0078.Kenfill003 | 1500 | 06:59 | 03:39:42.9 | +10:34:54 | 300 | 88 | 3.0 | #210 Brightest | 2 | |
| 0079.COMP | 10 | 07:25 | 03:39:42.9 | +10:34:54 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0080.Kenfill004 | 1500 | 07:27 | 03:37:13.3 | +10:44:55 | 300 | 88 | 3.0 | #210 Brightest | 2 | |
| 0081.COMP | 10 | 07:52 | 03:37:13.3 | +10:44:55 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0082.Kenfill005 | 1200 | 07:54 | 03:38:04.9 | +09:49:05 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0083.COMP | 10 | 08:15 | 03:38:04.9 | +09:49:05 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0084.Kenfill006 | 1500 | 08:16 | 03:40:44.8 | +09:48:52 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0085.COMP | 10 | 08:42 | 03:40:44.8 | +09:48:52 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-06 Observers M CalkinsColl. Focus 1350 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0086.Kenfill007 | 1500 | 08:43 | 03:38:59.0 | +09:53:40 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0087.COMP | 10 | 09:09 | 03:38:59.0 | +09:53:40 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0088.j0736 | 900 | 09:22 | 07:36:16.2 | +16:22:56 | 600 | 92 | 1.5 | #178 Low Mass | 4 | |
| 0089.COMP | 10 | 09:37 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0090.j0736 | 900 | 09:38 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0091.COMP | 10 | 09:53 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0092.j0736 | 900 | 09:54 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0093.COMP | 10 | 10:10 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0094.j0736 | 900 | 10:11 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0095.COMP | 10 | 10:26 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0096.j0736 | 900 | 10:27 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0097.COMP | 10 | 10:42 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0098.j0736 | 900 | 10:43 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0099.COMP | 10 | 10:58 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0100.j0736 | 900 | 10:59 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0101.COMP | 10 | 11:14 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0102.j0736 | 900 | 11:15 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0103.COMP | 10 | 11:30 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0104.j0736 | 900 | 11:31 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0105.COMP | 10 | 11:47 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |

UT Date 2013-11-06 Observers M CalkinsColl. Focus 1350 Grating/Grism 600

| <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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0106.j0736 | 900 | 11:48 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0107.COMP | 10 | 12:03 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0108.j0736 | 900 | 12:04 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | #178 Low Mass | 4 | |
| 0109.COMP | 10 | 12:19 | 07:36:16.2 | +16:22:56 | 600 | 94 | 1.5 | 0 Calibration | 4 | |
| 0110.j0736 | 900 | 12:20 | 07:36:16.2 | +16:22:56 | 600 | 94 | 1.5 | #178 Low Mass | 4 | |
| 0111.COMP | 10 | 12:35 | 07:36:16.2 | +16:22:56 | 600 | 93 | 1.5 | 0 Calibration | 4 | |
| 0112.Feige34 | 200 | 12:38 | 10:39:36.7 | +43:06:09 | 600 | 90 | 1.5 | #56 Spectropho | 4 | |
| 0113.COMP | 10 | 12:41 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0114-0123.FLAT | 12 | 12:49 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0124-0133.BIAS | 0 | 12:54 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0134-0143.DARK | 900 | 15:15 | 10:39:36.7 | +43:06:09 | 600 | 89 | 1.5 | 0 Calibration | 2 | |

UT Date 2013-11-07 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|-------------------------------------|
| 0001-0005.DARK | 900 | 00:17 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0006-0015.BIAS | 0 | 00:38 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0016-0035.FLAT | 7 | 00:45 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0036-0045.BIAS | 0 | 00:48 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0046.AS338 | 100 | 01:29 | 19:03:47.0 | +16:26:17 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | horrible seeing! |
| 0047.AS338 | 720 | 01:31 | 19:03:47.0 | +16:26:17 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0048.COMP | 10 | 01:43 | 19:03:47.0 | +16:26:17 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0049.V919Sgr | 30 | 01:47 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0050.V919Sgr | 15 | 01:49 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0051.V919Sgr | 60 | 01:50 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0052.COMP | 10 | 01:51 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0053.BFCyg | 20 | 01:54 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0054.BFCyg | 20 | 01:55 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0055.COMP | 5 | 01:56 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0056.CHCyg | 1 | 01:58 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0057.CHCyg | 6 | 01:58 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0058.CHCyg | 35 | 01:59 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0059.COMP | 10 | 02:00 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0060.AS360 | 60 | 02:04 | 19:45:49.0 | +18:36:49 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | seeing making it hard to id objects |
| 0061.AS360 | 360 | 02:06 | 19:45:49.0 | +18:36:49 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |

UT Date 2013-11-07 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------|
| 0062.COMP | 10 | 02:13 | 19:45:49.0 | +18:36:49 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0063.CICyg | 4 | 02:16 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0064.CICyg | 15 | 02:16 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0065.COMP | 10 | 02:17 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0066.PUVul | 1 | 02:19 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0067.PUVul | 10 | 02:20 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0068.PUVul | 60 | 02:20 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0069.COMP | 10 | 02:22 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0070.BDp284211 | 100 | 02:24 | 21:51:11.0 | +28:51:50 | 300 | 89 | 3.0 | #56 Spectropho | 2 | seeing still dreadful!! |
| 0071.COMP | 10 | 02:27 | 21:51:11.0 | +28:51:50 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0072.BDp174708 | 90 | 02:29 | 22:11:31.4 | +18:05:34 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0073.COMP | 10 | 02:31 | 22:11:31.4 | +18:05:34 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0074.sn2013fw | 2700 | 02:34 | 21:13:44.8 | +13:34:33 | 300 | 50 | 3.0 | #2 SN Observat | 2 | |
| 0075.COMP | 10 | 03:19 | 21:13:44.8 | +13:34:33 | 300 | 50 | 3.0 | 0 Calibration | 2 | |
| 0076.Kenfill110 | 1200 | 03:26 | 23:11:39.9 | +08:04:03 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0077.COMP | 10 | 03:47 | 23:11:39.9 | +08:04:03 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0078.Kenfill111 | 1800 | 03:50 | 23:11:45.3 | +07:11:39 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0079.COMP | 10 | 04:20 | 23:11:45.3 | +07:11:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0080.Kenfill112 | 1800 | 04:22 | 23:11:47.5 | +07:25:40 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0081.COMP | 10 | 04:53 | 23:11:47.5 | +07:25:40 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-07 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0082.Kenfill113 | 1800 | 04:56 | 23:10:20.1 | +07:35:40 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0083.COMP | 10 | 05:27 | 23:10:20.1 | +07:35:40 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0084.ZAnd | 2 | 05:30 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0085.ZAnd | 6 | 05:31 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0086.ZAnd | 35 | 05:32 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0087.COMP | 10 | 05:33 | 23:33:40.0 | +48:49:06 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0088.RAqr | 2 | 05:35 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0089.RAqr | 6 | 05:36 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0090.RAqr | 12 | 05:36 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0091.COMP | 10 | 05:37 | 23:43:49.0 | -15:17:05 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0092.EGAnd | 2 | 05:40 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0093.EGAnd | 6 | 05:41 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0094.EGAnd | 20 | 05:41 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0095.COMP | 10 | 05:42 | 00:44:37.0 | +40:40:47 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0096.AXPer | 5 | 05:45 | 01:36:23.0 | +54:15:03 | 300 | 87 | 3.0 | #12 Symbiotic | 2 | |
| 0097.AXPer | 35 | 05:45 | 01:36:23.0 | +54:15:03 | 300 | 87 | 3.0 | #12 Symbiotic | 2 | |
| 0098.AXPer | 90 | 05:46 | 01:36:23.0 | +54:15:03 | 300 | 87 | 3.0 | #12 Symbiotic | 2 | |
| 0099.COMP | 10 | 05:48 | 01:36:23.0 | +54:15:03 | 300 | 84 | 3.0 | 0 Calibration | 2 | |
| 0100.Kenfill114 | 2400 | 05:51 | 23:12:10.1 | +07:32:52 | 300 | 84 | 3.0 | #210 Brightest | 2 | |
| 0101.COMP | 10 | 06:33 | 23:12:10.1 | +07:32:52 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-07 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--------------------------|
| 0102.Kenfill008 | 2400 | 06:35 | 03:38:47.5 | +09:55:09 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0103.COMP | 10 | 07:16 | 03:38:47.5 | +09:55:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | close for wind |
| 0104.GITau | 300 | 09:41 | 04:33:34.0 | +24:21:18 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0105.COMP | 10 | 09:46 | 04:33:34.0 | +24:21:18 | 300 | 83 | 3.0 | 0 Calibration | 2 | |
| 0106.GKTau | 300 | 09:47 | 04:33:34.5 | +24:21:07 | 300 | 83 | 3.0 | #12 Symbiotic | 2 | |
| 0107.COMP | 10 | 09:53 | 04:33:34.5 | +24:21:07 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0108.BGGem | 480 | 09:54 | 06:03:31.0 | +27:41:50 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0109.COMP | 10 | 10:03 | 06:03:31.0 | +27:41:50 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0110.04490346+6055283 | 1800 | 10:09 | 04:49:03.5 | +60:55:28 | 300 | 89 | 3.0 | #141 2MASS Red | 2 | |
| 0111.COMP | 10 | 10:40 | 04:49:03.5 | +60:55:28 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0112.04514889+6404404 | 1500 | 10:42 | 04:51:48.9 | +64:04:40 | 300 | 89 | 3.0 | #141 2MASS Red | 2 | |
| 0113.COMP | 10 | 11:08 | 04:51:48.9 | +64:04:40 | 300 | 90 | 3.0 | 0 Calibration | 2 | close for wind |
| 0114.BXMon | 25 | 11:58 | 07:25:23.0 | -03:35:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | ignore, horrible seeing! |
| 0115.BXMon | 200 | 11:59 | 07:25:23.0 | -03:35:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0116.BXMon | 30 | 12:03 | 07:25:23.0 | -03:35:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0117.COMP | 10 | 12:05 | 07:25:23.0 | -03:35:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0118.SS129 | 420 | 12:07 | 07:32:45.0 | -26:49:16 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | row=77 |
| 0119.SS129 | 420 | 12:14 | 07:32:45.0 | -26:49:16 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0120.COMP | 10 | 12:21 | 07:32:45.0 | -26:49:16 | 300 | 90 | 3.0 | 0 Calibration | 2 | close for wind, again! |
| 0121-0130.BIAS | 0 | 12:25 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-07 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| <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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0131-0150.FLAT | 7 | 12:32 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0151-0160.DARK | 900 | 15:19 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-08 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------|
| 0001-0009.DARK | 900 | 00:49 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0010-0019.BIAS | 0 | 01:09 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0020-0039.FLAT | 7 | 01:15 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0040-0050.BIAS | 0 | 01:20 | 07:32:45.0 | -26:49:16 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0051.BDp284211 | 90 | 01:24 | 21:51:11.0 | +28:51:50 | 300 | 89 | 3.0 | #56 Spectropho | 2 | awesome seeing! |
| 0052.COMP | 10 | 01:26 | 21:51:11.0 | +28:51:50 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0053.BDp174708 | 50 | 01:28 | 22:11:31.4 | +18:05:34 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0054.COMP | 10 | 01:29 | 22:11:31.4 | +18:05:34 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0055.Hesperia | 120 | 01:33 | 23:56:56.9 | -01:58:44 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0056.Hesperia | 120 | 01:35 | 23:56:56.9 | -01:58:44 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0057.Hesperia | 120 | 01:38 | 23:56:56.9 | -01:58:44 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0058.COMP | 10 | 01:40 | 23:56:56.9 | -01:58:44 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0059.Aurora | 150 | 01:43 | 23:57:41.9 | +02:06:12 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0060.Aurora | 150 | 01:46 | 23:57:41.9 | +02:06:12 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0061.Aurora | 150 | 01:48 | 23:57:41.9 | +02:06:12 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0062.COMP | 10 | 01:51 | 23:57:41.9 | +02:06:12 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0063.Kenfill1144 | 1800 | 01:55 | 21:14:56.0 | +02:02:42 | 300 | 70 | 3.0 | #210 Brightest | 2 | |
| 0064.COMP | 10 | 02:25 | 21:14:56.0 | +02:02:42 | 300 | 70 | 3.0 | 0 Calibration | 2 | |
| 0065.sn2013fw | 1800 | 02:28 | 21:13:44.8 | +13:34:33 | 300 | 70 | 3.0 | #2 SN Observat | 2 | |
| 0066.COMP | 10 | 02:58 | 21:13:44.8 | +13:34:33 | 300 | 71 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-08 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0067.Kenfill145 | 900 | 03:00 | 21:12:28.7 | +02:28:29 | 300 | 80 | 3.0 | #210 Brightest | 2 | |
| 0068.COMP | 10 | 03:16 | 21:12:28.7 | +02:28:29 | 300 | 80 | 3.0 | 0 Calibration | 2 | |
| 0069.Kenfill146 | 1500 | 03:17 | 21:14:30.7 | +03:01:51 | 300 | 80 | 3.0 | #210 Brightest | 2 | |
| 0070.COMP | 10 | 03:43 | 21:14:30.7 | +03:01:51 | 300 | 80 | 3.0 | 0 Calibration | 2 | |
| 0071.Kenfill147 | 1800 | 03:44 | 21:12:44.3 | +02:00:56 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0072.COMP | 10 | 04:15 | 21:12:44.3 | +02:00:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0073.Kenfill115 | 1800 | 04:16 | 23:09:18.7 | +07:49:43 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0074.COMP | 10 | 04:47 | 23:09:18.7 | +07:49:43 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0075.M31 | 60 | 04:49 | 00:42:44.3 | +41:16:09 | 300 | 89 | 3.0 | #57 Velocity S | 2 | |
| 0076.COMP | 10 | 04:50 | 00:42:44.3 | +41:16:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0077.Kenfill116 | 1200 | 04:52 | 23:09:03.2 | +07:55:11 | 300 | 89 | 3.0 | #210 Brightest | 2 | |
| 0078.COMP | 10 | 05:13 | 23:09:03.2 | +07:55:11 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0079.Kenfill117 | 2100 | 05:14 | 23:12:11.4 | +07:09:19 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0080.COMP | 10 | 05:50 | 23:12:11.4 | +07:09:19 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0081.Kenfill118 | 2100 | 05:53 | 23:10:09.9 | +06:55:25 | 300 | 110 | 3.0 | #210 Brightest | 2 | |
| 0082.COMP | 10 | 06:28 | 23:10:09.9 | +06:55:25 | 300 | 110 | 3.0 | 0 Calibration | 2 | |
| 0083.Kenfill009 | 1200 | 06:38 | 03:36:32.3 | +10:26:19 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0084.COMP | 10 | 06:59 | 03:36:32.3 | +10:26:19 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0085.Kenfill010 | 1200 | 07:00 | 03:40:15.3 | +09:58:28 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0086.COMP | 10 | 07:20 | 03:40:15.3 | +09:58:28 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-11-08 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0087.Kenfill011 | 1200 | 07:22 | 03:38:28.2 | +10:30:29 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0088.COMP | 10 | 07:42 | 03:38:28.2 | +10:30:29 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0089.Kenfill012 | 1500 | 07:44 | 03:38:05.3 | +10:27:15 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0090.COMP | 10 | 08:09 | 03:38:05.3 | +10:27:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0091.Kenfill013 | 1080 | 08:11 | 03:40:00.4 | +09:48:17 | 300 | 61 | 3.0 | #210 Brightest | 2 | |
| 0092.COMP | 10 | 08:30 | 03:40:00.4 | +09:48:17 | 300 | 61 | 3.0 | 0 Calibration | 2 | |
| 0093.Kenfill014 | 1500 | 08:31 | 03:40:35.4 | +10:04:25 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0094.COMP | 10 | 08:57 | 03:40:35.4 | +10:04:25 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0095.Kenfill015 | 1200 | 08:58 | 03:38:34.7 | +10:35:29 | 300 | 90 | 3.0 | #210 Brightest | 2 | |
| 0096.COMP | 10 | 09:18 | 03:38:34.7 | +10:35:29 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0097.lmwd037 | 960 | 09:27 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0098.COMP | 10 | 09:43 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0099.lmwd037 | 960 | 09:44 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0100.COMP | 10 | 10:00 | 07:56:10.7 | +67:04:25 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0101.lmwd037 | 960 | 10:01 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0102.COMP | 10 | 10:17 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0103.lmwd037 | 960 | 10:18 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0104.COMP | 10 | 10:35 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0105.lmwd037 | 960 | 10:35 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0106.COMP | 10 | 10:53 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |

UT Date 2013-11-08 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0107.lmwd037 | 960 | 10:54 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0108.COMP | 10 | 11:11 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0109.lmwd037 | 960 | 11:11 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0110.COMP | 10 | 11:28 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0111.lmwd037 | 960 | 11:28 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0112.COMP | 10 | 11:45 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0113.lmwd037 | 960 | 11:46 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0114.COMP | 10 | 12:02 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0115.lmwd037 | 960 | 12:03 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0116.COMP | 10 | 12:19 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0117.lmwd037 | 960 | 12:20 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0118.COMP | 10 | 12:36 | 07:56:10.7 | +67:04:25 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0119.Feige34 | 180 | 12:39 | 10:39:36.7 | +43:06:09 | 600 | 90 | 1.5 | #56 Spectropho | 4 | |
| 0120.COMP | 10 | 12:42 | 10:39:36.7 | +43:06:09 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0121-0130.FLAT | 12 | 12:48 | 10:39:36.7 | +43:06:09 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0131-0140.BIAS | 0 | 12:50 | 10:39:36.7 | +43:06:09 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0141-0150.BIAS | 0 | 13:07 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0151-0160.DARK | 900 | 15:29 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |