

UT Date 2013-04-10 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------------|
| 0001-0002.BIAS | 0 | 01:59 | 04:56:56.3 | -04:51:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0003.BIAS | 0 | 01:59 | 04:56:56.3 | -04:51:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | start of FAST run |
| 0004.BIAS | 0 | 01:59 | 04:56:56.3 | -04:51:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0005.BIAS | 0 | 01:59 | 04:56:56.3 | -04:51:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | after ccd warmup and cooldown |
| 0006-0010.BIAS | 0 | 02:00 | 04:56:56.3 | -04:51:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0011-0025.FLAT | 7 | 02:06 | 04:56:56.3 | -04:51:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0026.H07_1307 | 120 | 02:36 | 05:39:59.3 | -02:22:54 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | partly cloudy |
| 0027.COMP | 10 | 02:38 | 05:39:59.3 | -02:22:54 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0028.H07_521 | 120 | 02:39 | 05:38:27.5 | -02:43:33 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0029.COMP | 10 | 02:41 | 05:38:27.5 | -02:43:33 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0030.H07_1352 | 150 | 02:42 | 05:40:07.0 | -02:28:30 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0031.COMP | 10 | 02:45 | 05:40:07.0 | -02:28:30 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0032.H07_706 | 153 | 02:46 | 05:38:44.8 | -02:33:58 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0033.COMP | 10 | 02:49 | 05:38:44.8 | -02:33:58 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0034.H07_244 | 150 | 02:50 | 05:37:54.5 | -02:43:38 | 300 | 88 | 3.0 | #112 PMS Orion | 2 | |
| 0035.COMP | 10 | 02:53 | 05:37:54.5 | -02:43:38 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0036.H07_194 | 420 | 02:54 | 05:37:49.6 | -02:36:18 | 300 | 88 | 3.0 | #112 PMS Orion | 2 | |
| 0037.COMP | 10 | 03:01 | 05:37:49.6 | -02:36:18 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0038.H07_654 | 300 | 03:02 | 05:38:39.7 | -02:18:38 | 300 | 88 | 3.0 | #112 PMS Orion | 2 | |
| 0039.COMP | 10 | 03:08 | 05:38:39.7 | -02:18:38 | 300 | 88 | 3.0 | 0 Calibration | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0040.H07_1239 | 420 | 03:08 | 05:39:50.6 | -02:53:01 | 300 | 88 | 3.0 | #112 PMS Orion | 2 | |
| 0041.COMP | 10 | 03:16 | 05:39:50.6 | -02:53:01 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0042.cvso-51370199 | 900 | 03:17 | 05:49:07.8 | +03:43:29 | 300 | 88 | 3.0 | #112 PMS Orion | 2 | |
| 0043.COMP | 10 | 03:32 | 05:49:07.8 | +03:43:29 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0044.sn2013ak | 1200 | 03:34 | 08:07:06.7 | -28:03:10 | 300 | 88 | 3.0 | #2 SN Observat | 2 | |
| 0045.COMP | 10 | 03:54 | 08:07:06.7 | -28:03:10 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0046.HD84937 | 30 | 03:56 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0047.HD84937 | 30 | 03:57 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0048.HD84937 | 30 | 03:58 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0049.COMP | 10 | 03:59 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0050.GJ1124 | 10 | 04:00 | 09:22:25.9 | +40:12:03 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0051.GJ1124 | 30 | 04:01 | 09:22:25.9 | +40:12:03 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0052.GJ1124 | 30 | 04:02 | 09:22:25.9 | +40:12:03 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0053.COMP | 10 | 04:03 | 09:22:25.9 | +40:12:03 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0054.G1365 | 40 | 04:04 | 09:43:25.6 | +42:41:29 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0055.G1365 | 40 | 04:05 | 09:43:25.6 | +42:41:29 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0056.G1365 | 40 | 04:06 | 09:43:25.6 | +42:41:29 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0057.COMP | 10 | 04:07 | 09:43:25.6 | +42:41:29 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0058.G1397 | 60 | 04:08 | 10:31:24.2 | +45:31:33 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0059.G1397 | 60 | 04:09 | 10:31:24.2 | +45:31:33 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0060.G1397 | 60 | 04:11 | 10:31:24.2 | +45:31:33 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0061.G1397 | 120 | 04:12 | 10:31:24.2 | +45:31:33 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0062.COMP | 10 | 04:14 | 10:31:24.2 | +45:31:33 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0063.Feige34 | 180 | 04:16 | 10:39:36.7 | +43:06:09 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0064.COMP | 10 | 04:20 | 10:39:36.7 | +43:06:09 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0065.G1424 | 120 | 04:22 | 11:20:04.8 | +65:50:47 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0066.G1424 | 120 | 04:24 | 11:20:04.8 | +65:50:47 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0067.G1424 | 120 | 04:27 | 11:20:04.8 | +65:50:47 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0068.COMP | 10 | 04:29 | 11:20:04.8 | +65:50:47 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0069.GJ454.3 | 75 | 04:30 | 12:02:20.8 | +43:08:26 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0070.GJ454.3 | 61 | 04:32 | 12:02:20.8 | +43:08:26 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0071.COMP | 10 | 04:34 | 12:02:20.8 | +43:08:26 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0072.GJ9393 | 360 | 04:35 | 12:10:56.8 | +41:03:28 | 300 | 88 | 3.0 | #215 Grid of W | 2 | |
| 0073.COMP | 10 | 04:42 | 12:10:56.8 | +41:03:28 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0074.GJ3714 | 480 | 04:44 | 12:12:29.4 | +39:40:27 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0075.COMP | 10 | 04:52 | 12:12:29.4 | +39:40:27 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0076.GJ9399 | 300 | 04:54 | 12:15:08.8 | +48:43:57 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0077.COMP | 10 | 04:59 | 12:15:08.8 | +48:43:57 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0078.HD106783 | 60 | 05:04 | 12:16:43.3 | +44:24:07 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0079.HD106783 | 60 | 05:05 | 12:16:43.3 | +44:24:07 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0080.HD106783 | 60 | 05:06 | 12:16:43.3 | +44:24:07 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0081.COMP | 10 | 05:07 | 12:16:43.3 | +44:24:07 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0082.GJ9404 | 300 | 05:09 | 12:19:24.1 | +28:22:56 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0083.COMP | 10 | 05:14 | 12:19:24.1 | +28:22:56 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0084.G1485 | 200 | 05:15 | 12:47:20.1 | +31:12:48 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0085.COMP | 10 | 05:19 | 12:47:20.1 | +31:12:48 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0086.TXCVn | 45 | 05:20 | 12:44:42.0 | +36:45:48 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0087.TXCVn | 45 | 05:21 | 12:44:42.0 | +36:45:48 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0088.TXCVn | 45 | 05:22 | 12:44:42.0 | +36:45:48 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0089.COMP | 10 | 05:23 | 12:44:42.0 | +36:45:48 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0090.V419Hya | 30 | 05:25 | 10:43:28.3 | -29:03:51 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0091.V419Hya | 30 | 05:26 | 10:43:28.3 | -29:03:51 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0092.V419Hya | 30 | 05:27 | 10:43:28.3 | -29:03:51 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0093.COMP | 10 | 05:27 | 10:43:28.3 | -29:03:51 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0094.sn2013ao | 1800 | 05:31 | 11:44:44.7 | -20:31:41 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0095.COMP | 10 | 06:02 | 11:44:44.7 | -20:31:41 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0096.sn2013ao | 1800 | 06:02 | 11:44:44.7 | -20:31:41 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0097.COMP | 10 | 06:33 | 11:44:44.7 | -20:31:41 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0098.HD84937 | 30 | 06:35 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0099.HD84937 | 30 | 06:35 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0100.HD84937 | 30 | 06:36 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0101.COMP | 10 | 06:37 | 09:48:56.1 | +13:44:39 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0102.COMP | 10 | 06:46 | 12:49:17.2 | +34:19:43 | 300 | 35 | 3.0 | 0 Calibration | 2 | |
| 0103.IRAS12468+3436 | 1800 | 06:48 | 12:49:17.2 | +34:19:43 | 300 | 35 | 3.0 | #199 Optical n | 2 | |
| 0104.COMP | 10 | 07:18 | 12:49:17.2 | +34:19:43 | 300 | 35 | 3.0 | 0 Calibration | 2 | |
| 0105.IRAS12468+3436 | 1800 | 07:18 | 12:49:17.2 | +34:19:43 | 300 | 35 | 3.0 | #199 Optical n | 2 | |
| 0106.COMP | 10 | 07:49 | 12:49:17.2 | +34:19:43 | 300 | 35 | 3.0 | 0 Calibration | 2 | |
| 0107.IRAS12468+3436 | 1800 | 07:49 | 12:49:17.2 | +34:19:43 | 300 | 35 | 3.0 | #199 Optical n | 2 | |
| 0108.COMP | 10 | 08:20 | 12:49:17.2 | +34:19:43 | 300 | 34 | 3.0 | 0 Calibration | 2 | |
| 0109.RWHya | 30 | 08:23 | 13:34:18.0 | -25:22:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0110.RWHya | 10 | 08:24 | 13:34:18.0 | -25:22:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0111.RWHya | 5 | 08:25 | 13:34:18.0 | -25:22:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0112.RWHya | 40 | 08:25 | 13:34:18.0 | -25:22:51 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0113.COMP | 10 | 08:26 | 13:34:18.0 | -25:22:51 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0114.GJ1176 | 120 | 08:27 | 13:42:26.0 | -01:41:10 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0115.GJ1176 | 90 | 08:30 | 13:42:26.0 | -01:41:10 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0116.COMP | 10 | 08:32 | 13:42:26.0 | -01:41:10 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0117.G1522 | 120 | 08:33 | 13:41:55.6 | -00:07:44 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0118.G1522 | 120 | 08:35 | 13:41:55.6 | -00:07:44 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0119.COMP | 10 | 08:38 | 13:41:55.6 | -00:07:44 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0120.sn2013aj | 1800 | 08:40 | 13:54:00.7 | -07:55:44 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0121.COMP | 10 | 09:11 | 13:54:00.7 | -07:55:44 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0122.sncss1304 | 1800 | 09:14 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0123.COMP | 10 | 09:44 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0124.sncss1304 | 1800 | 09:45 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0125.COMP | 10 | 10:16 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0126.BDp262606 | 60 | 10:17 | 14:49:02.4 | +25:42:09 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0127.BDp262606 | 60 | 10:18 | 14:49:02.4 | +25:42:09 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0128.COMP | 10 | 10:20 | 14:49:02.4 | +25:42:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0129.BDp332642 | 120 | 10:21 | 15:51:59.9 | +32:56:54 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0130.COMP | 10 | 10:23 | 15:51:59.9 | +32:56:54 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0131.snlsq13vy | 1800 | 10:27 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0132.COMP | 10 | 10:57 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0133.snlsq13vy | 1800 | 10:58 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0134.COMP | 10 | 11:28 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0135.GJ579 | 239 | 11:30 | 15:07:23.5 | +24:56:07 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0136.COMP | 10 | 11:34 | 15:07:23.5 | +24:56:07 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0137.G1638 | 30 | 11:37 | 16:45:06.3 | +33:30:33 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0138.G1638 | 30 | 11:38 | 16:45:06.3 | +33:30:33 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0139.COMP | 10 | 11:39 | 16:45:06.3 | +33:30:33 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0140.G1639 | 45 | 11:40 | 16:48:35.5 | +37:00:48 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0141.G1639 | 45 | 11:41 | 16:48:35.5 | +37:00:48 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0142.COMP | 10 | 11:42 | 16:48:35.5 | +37:00:48 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0143.AGDra | 30 | 11:44 | 16:01:41.0 | +66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0144.AGDra | 90 | 11:45 | 16:01:41.0 | +66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0145.AGDra | 120 | 11:47 | 16:01:41.0 | +66:48:10 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0146.COMP | 10 | 11:49 | 16:01:41.0 | +66:48:10 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0147.G1687 | 60 | 11:53 | 17:36:25.9 | +68:20:20 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0148.G1687 | 60 | 11:54 | 17:36:25.9 | +68:20:20 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0149.COMP | 10 | 11:55 | 17:36:25.9 | +68:20:20 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0150.GJ9592 | 90 | 11:58 | 17:30:22.7 | +05:32:54 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0151.GJ9592 | 90 | 12:00 | 17:30:22.7 | +05:32:54 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0152.COMP | 10 | 12:01 | 17:30:22.7 | +05:32:54 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0153.G1740 | 90 | 12:03 | 18:58:00.1 | +05:54:29 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0154.G1740 | 90 | 12:04 | 18:58:00.1 | +05:54:29 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0155.COMP | 10 | 12:07 | 18:58:00.1 | +05:54:29 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0156.G1718 | 60 | 12:08 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0157.G1718 | 60 | 12:09 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0158.COMP | 10 | 12:10 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0159-0168.BIAS | 0 | 12:16 | 18:33:17.7 | +22:18:51 | 300 | 90 | 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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0169-0183.FLAT | 7 | 12:21 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0184-0193.DARK | 900 | 14:46 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

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

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001-0005.DARK | 900 | 00:11 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0006-0015.BIAS | 0 | 01:14 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0016-0030.FLAT | 7 | 01:19 | 18:33:17.7 | +22:18:51 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0031.H07_1021 | 300 | 02:33 | 05:39:23.5 | -02:16:50 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0032.COMP | 10 | 02:39 | 05:39:23.5 | -02:16:50 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0033.H07_124 | 240 | 02:40 | 05:37:37.9 | -02:50:10 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0034.COMP | 10 | 02:44 | 05:37:37.9 | -02:50:10 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0035.H07_1269 | 240 | 02:45 | 05:39:54.4 | -02:44:48 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0036.COMP | 10 | 02:50 | 05:39:54.4 | -02:44:48 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0037.Hyades142 | 30 | 02:53 | 04:46:30.0 | +15:28:21 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0038.Hyades142 | 30 | 02:54 | 04:46:30.0 | +15:28:21 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0039.Hyades142 | 30 | 02:55 | 04:46:30.0 | +15:28:21 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0040.Hyades142 | 75 | 02:55 | 04:46:30.0 | +15:28:21 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0041.COMP | 10 | 02:57 | 04:46:30.0 | +15:28:21 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0042.H07_475 | 240 | 02:58 | 05:38:21.8 | -02:21:50 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0043.COMP | 10 | 03:03 | 05:38:21.8 | -02:21:50 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0044.H07_293 | 240 | 03:04 | 05:37:59.7 | -02:51:03 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0045.COMP | 10 | 03:08 | 05:37:59.7 | -02:51:03 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0046.H07_1244 | 240 | 03:09 | 05:39:51.1 | -02:32:26 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0047.COMP | 10 | 03:13 | 05:39:51.1 | -02:32:26 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

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

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0048.H07_846 | 240 | 03:15 | 05:39:01.4 | -02:53:43 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0049.COMP | 10 | 03:19 | 05:39:01.4 | -02:53:43 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0050.Comet2012.S1.ISON | 1800 | 03:21 | 06:37:14.9 | +30:12:19 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0051.COMP | 10 | 03:52 | 06:37:14.9 | +30:12:19 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0052.Comet2012.S1.ISON | 1800 | 03:54 | 06:37:14.9 | +30:12:19 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0053.COMP | 10 | 04:24 | 06:37:14.9 | +30:12:19 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0054.Comet2012.S1.ISON | 1800 | 04:25 | 06:37:14.9 | +30:12:19 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0055.COMP | 10 | 04:55 | 06:37:14.9 | +30:12:19 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0056.HD84937 | 30 | 04:57 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0057.HD84937 | 30 | 04:58 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0058.HD84937 | 30 | 04:59 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0059.COMP | 10 | 04:59 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0060.Feige34 | 180 | 05:01 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0061.COMP | 10 | 05:04 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0062.BS4486 | 5 | 05:06 | 11:38:44.8 | +45:06:31 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0063.BS4486 | 5 | 05:06 | 11:38:44.8 | +45:06:31 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0064.BS4486 | 5 | 05:07 | 11:38:44.8 | +45:06:31 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0065.BS4486 | 15 | 05:07 | 11:38:44.8 | +45:06:31 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0066.COMP | 10 | 05:08 | 11:38:44.8 | +45:06:31 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0067.1990SP.5645 | 1800 | 05:12 | 12:13:37.6 | +32:05:53 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |

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

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0068.COMP | 10 | 05:42 | 12:13:37.6 | +32:05:53 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0069.1990SP.5645 | 1800 | 05:43 | 12:13:37.6 | +32:05:53 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0070.COMP | 10 | 06:14 | 12:13:37.6 | +32:05:53 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0071.1990SP.5645 | 1800 | 06:14 | 12:13:37.6 | +32:05:53 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0072.COMP | 10 | 06:45 | 12:13:37.6 | +32:05:53 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0073.SA104m483 | 600 | 06:47 | 12:44:16.7 | -00:27:33 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0074.COMP | 10 | 06:58 | 12:44:16.7 | -00:27:33 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0075.FY13.2013 | 1800 | 07:03 | 13:01:12.7 | -01:00:10 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0076.COMP | 10 | 07:34 | 13:01:12.7 | -01:00:10 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0077.FY13.2013 | 1800 | 07:35 | 13:01:12.7 | -01:00:10 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0078.COMP | 10 | 08:05 | 13:01:12.7 | -01:00:10 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0079.FY13.2013 | 1800 | 08:06 | 13:01:12.7 | -01:00:10 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0080.COMP | 10 | 08:36 | 13:01:12.7 | -01:00:10 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0081.BDp262606 | 90 | 08:38 | 14:49:02.4 | +25:42:09 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0082.COMP | 10 | 08:40 | 14:49:02.4 | +25:42:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0083.sncss1304 | 1800 | 08:42 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0084.COMP | 10 | 09:12 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0085.sncss1304 | 1800 | 09:13 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0086.COMP | 10 | 09:43 | 15:02:13.1 | +10:38:46 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0087.snlsq13vy | 1800 | 09:46 | 16:06:55.9 | +03:00:15 | 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 |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0088.COMP | 10 | 10:16 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0089.snlsq13vy | 1800 | 10:17 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0090.COMP | 10 | 10:47 | 16:06:55.9 | +03:00:15 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0091.BDp332642 | 120 | 10:49 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0092.COMP | 10 | 10:51 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0093.TCrB | 15 | 10:52 | 15:59:30.0 | +25:55:12 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0094.TCrB | 60 | 10:53 | 15:59:30.0 | +25:55:12 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0095.TCrB | 90 | 10:55 | 15:59:30.0 | +25:55:12 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0096.COMP | 10 | 10:56 | 15:59:30.0 | +25:55:12 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0097.AS210 | 30 | 10:59 | 16:51:20.3 | -26:00:33 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0098.AS210 | 300 | 11:00 | 16:51:20.3 | -26:00:33 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0099.AS210 | 10 | 11:05 | 16:51:20.3 | -26:00:33 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0100.COMP | 10 | 11:06 | 16:51:20.3 | -26:00:33 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0101.Hen1341 | 15 | 11:08 | 17:08:36.0 | -17:26:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0102.Hen1341 | 45 | 11:08 | 17:08:36.0 | -17:26:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0103.Hen1341 | 180 | 11:09 | 17:08:36.0 | -17:26:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0104.COMP | 10 | 11:13 | 17:08:36.0 | -17:26:30 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0105.RSOph | 30 | 11:15 | 17:50:13.0 | -06:42:30 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0106.RSOph | 45 | 11:16 | 17:50:13.0 | -06:42:30 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0107.RSOph | 180 | 11:17 | 17:50:13.0 | -06:42:30 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|----------|
| 0108.COMP | 10 | 11:20 | 17:50:13.0 | -06:42:30 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0109.XX0ph | 10 | 11:22 | 17:43:56.0 | -06:16:08 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0110.XX0ph | 30 | 11:23 | 17:43:56.0 | -06:16:08 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0111.COMP | 10 | 11:23 | 17:43:56.0 | -06:16:08 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0112.AS296 | 30 | 11:24 | 18:15:07.0 | -00:18:52 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0113.AS296 | 10 | 11:26 | 18:15:07.0 | -00:18:52 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0114.AS296 | 150 | 11:26 | 18:15:07.0 | -00:18:52 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0115.COMP | 10 | 11:29 | 18:15:07.0 | -00:18:52 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0116.AS289 | 30 | 11:31 | 18:12:22.0 | -11:40:08 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0117.AS289 | 60 | 11:31 | 18:12:22.0 | -11:40:08 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0118.AS289 | 480 | 11:33 | 18:12:22.0 | -11:40:08 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0119.COMP | 10 | 11:41 | 18:12:22.0 | -11:40:08 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0120.AS270 | 60 | 11:43 | 18:05:33.7 | -20:20:38 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0121.AS270 | 120 | 11:44 | 18:05:33.7 | -20:20:38 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0122.AS270 | 360 | 11:46 | 18:05:33.7 | -20:20:38 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0123.COMP | 10 | 11:53 | 18:05:33.7 | -20:20:38 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0124.Hen1591 | 120 | 11:55 | 18:07:32.0 | -25:53:43 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0125.Hen1591 | 422 | 11:57 | 18:07:32.0 | -25:53:43 | 300 | 89 | 3.0 | #12 Symbiotic | 2 | |
| 0126.COMP | 10 | 12:05 | 18:07:32.0 | -25:53:43 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0127.V919Sgr | 120 | 12:06 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |

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

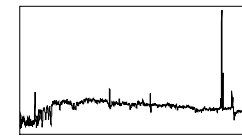
| <i>File</i> | <i>Exp Time</i> | <i>UT Start</i> | <i>RA</i> | <i>Dec</i> | <i>Gr.</i> | <i>P.A.</i> | <i>Slit</i> | <i>Program</i> | <i>Bin</i> | <i>Comments</i> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0128.V919Sgr | 30 | 12:08 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0129.V919Sgr | 20 | 12:09 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0130.COMP | 10 | 12:10 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0131-0140.BIAS | 0 | 12:14 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0141-0155.FLAT | 7 | 12:19 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0156-0165.DARK | 900 | 14:42 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-04-12 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-----------------|
| 0001-0005.DARK | 900 | 01:18 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0006-0015.BIAS | 0 | 01:51 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0016-0030.FLAT | 7 | 01:56 | 19:03:45.0 | -16:59:56 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0031.H07_385 | 300 | 02:39 | 05:38:11.7 | -02:45:01 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | clouds to north |
| 0032.COMP | 10 | 02:44 | 05:38:11.7 | -02:45:01 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0033.H07_600 | 300 | 02:45 | 05:38:34.8 | -02:39:30 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0034.COMP | 10 | 02:51 | 05:38:34.8 | -02:39:30 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0035.H07_74 | 300 | 02:52 | 05:37:31.1 | -02:31:44 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0036.COMP | 10 | 02:57 | 05:37:31.1 | -02:31:44 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0037.H07_1251 | 300 | 02:58 | 05:39:52.5 | -02:43:22 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0038.COMP | 10 | 03:04 | 05:39:52.5 | -02:43:22 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0039.H07_1113 | 360 | 03:05 | 05:39:35.1 | -02:47:30 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0040.COMP | 10 | 03:11 | 05:39:35.1 | -02:47:30 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0041.H07_304 | 420 | 03:12 | 05:38:02.2 | -02:29:56 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0042.COMP | 10 | 03:19 | 05:38:02.2 | -02:29:56 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0043.sn2013ak | 1200 | 03:21 | 08:07:06.7 | -28:03:10 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0044.COMP | 10 | 03:42 | 08:07:06.7 | -28:03:10 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0045.HD84937 | 30 | 03:44 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0046.HD84937 | 30 | 03:44 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0047.HD84937 | 30 | 03:45 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0048.COMP | 10 | 03:46 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0049.HD89010 | 2 | 03:50 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0050.HD89010 | 5 | 03:50 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0051.HD89010 | 5 | 03:51 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0052.HD89010 | 5 | 03:51 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0053.COMP | 10 | 03:52 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0054.McCuskey.2007 | 1800 | 03:55 | 10:23:31.2 | +12:05:17 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0055.COMP | 10 | 04:25 | 10:23:31.2 | +12:05:17 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0056.McCuskey.2007 | 1800 | 04:26 | 10:23:31.2 | +12:05:17 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0057.COMP | 10 | 04:56 | 10:23:31.2 | +12:05:17 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0058.McCuskey.2007 | 1800 | 04:57 | 10:23:31.2 | +12:05:17 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0059.COMP | 10 | 05:28 | 10:23:31.2 | +12:05:17 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0060.HD89010 | 5 | 05:29 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0061.HD89010 | 5 | 05:29 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0062.HD89010 | 5 | 05:30 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | #173 Small Sol | 2 | |
| 0063.COMP | 10 | 05:30 | 10:16:32.3 | +23:30:11 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0064.Feige34 | 180 | 05:31 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0065.COMP | 10 | 05:35 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0066.Levitan.3566 | 1800 | 05:40 | 12:13:01.0 | -05:48:06 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0067.COMP | 10 | 06:10 | 12:13:01.0 | -05:48:06 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-04-12 Observers P BerlindColl. Focus 1350 Grating/Grism 300

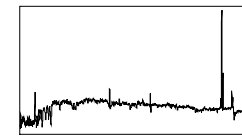
| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|---------------------|
| 0068.Levitan.3566 | 1800 | 06:11 | 12:13:01.0 | -05:48:06 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0069.COMP | 10 | 06:42 | 12:13:01.0 | -05:48:06 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0070.Levitan.3566 | 1800 | 06:42 | 12:13:01.0 | -05:48:06 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0071.COMP | 10 | 07:13 | 12:13:01.0 | -05:48:06 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0072.SA103m204 | 300 | 07:14 | 11:57:27.0 | -00:56:54 | 300 | 89 | 3.0 | #173 Small Sol | 2 | |
| 0073.COMP | 10 | 07:20 | 11:57:27.0 | -00:56:54 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0074.sn2013aj | 1800 | 07:21 | 13:54:00.7 | -07:55:44 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0075.COMP | 10 | 07:52 | 13:54:00.7 | -07:55:44 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0076.sncss1304 | 1800 | 07:55 | 15:02:13.1 | +10:38:46 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0077.COMP | 10 | 08:25 | 15:02:13.1 | +10:38:46 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0078.sncss1304 | 1800 | 08:26 | 15:02:13.1 | +10:38:46 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0079.COMP | 10 | 08:57 | 15:02:13.1 | +10:38:46 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0080.BDp262606 | 90 | 08:58 | 14:49:02.4 | +25:42:09 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0081.COMP | 10 | 09:00 | 14:49:02.4 | +25:42:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0082.BDp332642 | 120 | 09:01 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0083.COMP | 10 | 09:03 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0084.snlsq13vy | 1800 | 09:05 | 16:06:55.9 | +03:00:15 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0085.COMP | 10 | 09:36 | 16:06:55.9 | +03:00:15 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0086.BIAS | 0 | 09:41 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0087.COMP | 10 | 09:42 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | 0 Calibration | 4 | 600-gpm, 2-sec, 445 |

UT Date 2013-04-12 Observers P BerlindColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|-------------------|
| 0088.gd518 | 1200 | 09:43 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0089.COMP | 10 | 10:03 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0090.gd518 | 1200 | 10:03 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | #178 Low Mass | 4 | clouds forming |
| 0091.COMP | 10 | 10:24 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0092.gd518 | 1200 | 10:24 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0093.COMP | 10 | 10:45 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0094.gd518 | 1200 | 10:46 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0095.COMP | 10 | 11:06 | 16:59:15.1 | +66:10:33 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0096.BDp332642 | 120 | 11:07 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | #178 Low Mass | 4 | stopped by clouds |
| 0097.COMP | 10 | 11:10 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0098-0107.BIAS | 0 | 11:13 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0108-0117.FLAT | 12 | 11:17 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0118.BIAS | 0 | 11:32 | 15:19:18.8 | +01:45:55 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-04-13 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------|
| 0001-0010.BIAS | 0 | 02:53 | 08:52:26.0 | +31:33:42 | 300 | 90 | 3.0 | 0 Calibration | 4 | |
| 0011-0030.FLAT | 7 | 03:04 | 08:52:26.0 | +31:33:42 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0031-0040.BIAS | 0 | 03:07 | 08:52:26.0 | +31:33:42 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0041.HD84937 | 45 | 03:11 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0042.HD84937 | 20 | 03:12 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0043.COMP | 10 | 03:13 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0044.Feige34 | 120 | 03:15 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0045.COMP | 10 | 03:18 | 10:39:36.7 | +43:06:09 | 300 | 84 | 3.0 | 0 Calibration | 2 | |
| 0046.sn2013ak | 1500 | 03:23 | 08:07:06.7 | -28:03:10 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0047.COMP | 10 | 03:49 | 08:07:06.7 | -28:03:10 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0048.NGC3690 | 900 | 03:53 | 11:28:32.2 | +58:33:43 | 300 | 73 | 3.0 | #199 Optical n | 2 | |
| 0049.NGC3690 | 900 | 04:08 | 11:28:32.2 | +58:33:43 | 300 | 73 | 3.0 | #199 Optical n | 2 | |
| 0050.NGC3690 | 900 | 04:24 | 11:28:32.2 | +58:33:43 | 300 | 73 | 3.0 | #199 Optical n | 2 | |
| 0051.COMP | 10 | 04:39 | 11:28:32.2 | +58:33:43 | 300 | 73 | 3.0 | 0 Calibration | 2 | |
| 0052.IRAS11267+1558 | 1800 | 04:42 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | #199 Optical n | 2 | |
| 0053.COMP | 10 | 05:12 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | 0 Calibration | 2 | |
| 0054.IRAS11267+1558 | 1800 | 05:13 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | #199 Optical n | 2 | |
| 0055.COMP | 10 | 05:44 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | 0 Calibration | 2 | |
| 0056.IRAS11267+1558 | 1800 | 05:44 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | #199 Optical n | 2 | haze moving in... |
| 0057.COMP | 5 | 06:15 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-04-13 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|-----------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0058.sn2013bc | 1800 | 06:40 | 13:10:21.3 | -07:10:24 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0059.COMP | 10 | 07:11 | 13:10:21.3 | -07:10:24 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0060.sn2013bb | 1800 | 07:14 | 14:12:14.0 | +15:50:31 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0061.COMP | 10 | 07:45 | 14:12:14.0 | +15:50:31 | 300 | 0 | 3.0 | 0 Calibration | 2 | |
| 0062.UGC8361 | 1200 | 07:47 | 13:18:18.6 | +06:20:07 | 300 | -32 | 3.0 | #199 Optical n | 2 | |
| 0063.UGC8361 | 1200 | 08:07 | 13:18:18.6 | +06:20:07 | 300 | -32 | 3.0 | #199 Optical n | 2 | |
| 0064.UGC8361 | 1200 | 08:27 | 13:18:18.6 | +06:20:07 | 300 | -32 | 3.0 | #199 Optical n | 2 | |
| 0065.COMP | 10 | 08:48 | 13:18:18.6 | +06:20:07 | 300 | -33 | 3.0 | 0 Calibration | 2 | |
| 0066.sncss1304 | 1800 | 08:51 | 15:02:13.1 | +10:38:46 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0067.sncss1304 | 1800 | 09:22 | 15:02:13.1 | +10:38:46 | 300 | 0 | 3.0 | #2 SN Observat | 2 | |
| 0068.COMP | 10 | 09:52 | 15:02:13.1 | +10:38:46 | 300 | -1 | 3.0 | 0 Calibration | 2 | |
| 0069.snlsq13vy | 1800 | 10:02 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0070.COMP | 10 | 10:33 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0071.17113131-2442038 | 1800 | 10:37 | 17:11:31.3 | -24:42:04 | 300 | 81 | 3.0 | #141 2Mass Red | 2 | row=86 |
| 0072.COMP | 10 | 11:08 | 17:11:31.3 | -24:42:04 | 300 | 81 | 3.0 | 0 Calibration | 2 | |
| 0073.17115651-2315013 | 900 | 11:10 | 17:11:56.5 | -23:15:01 | 300 | 90 | 3.0 | #141 2Mass Red | 2 | row=79 |
| 0074.COMP | 10 | 11:26 | 17:11:56.5 | -23:15:01 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0075.17123843-2331458 | 720 | 11:27 | 17:12:38.4 | -23:31:46 | 300 | 86 | 3.0 | #141 2Mass Red | 2 | row=80 |
| 0076.COMP | 10 | 11:40 | 17:12:38.4 | -23:31:46 | 300 | 85 | 3.0 | 0 Calibration | 2 | |
| 0077.BDp262606 | 25 | 11:42 | 14:49:02.4 | +25:42:09 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |

UT Date 2013-04-13 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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0078.COMP | 10 | 11:43 | 14:49:02.4 | +25:42:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0079.BDp332642 | 120 | 11:45 | 15:51:59.9 | +32:56:54 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0080.COMP | 10 | 11:48 | 15:51:59.9 | +32:56:54 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0081.N5866 | 180 | 11:50 | 15:06:29.5 | +55:45:48 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0082.COMP | 10 | 11:54 | 15:06:29.5 | +55:45:48 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0083-0102.FLAT | 7 | 12:06 | 17:13:02.9 | -23:54:02 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0103-0112.BIAS | 0 | 12:25 | 17:13:02.9 | -23:54:02 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0113-0122.DARK | 900 | 15:18 | 17:13:02.9 | -23:54:02 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-04-14 Observers M CalkinsColl. Focus 1350 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001-0010.DARK | 900 | 01:40 | 17:13:02.9 | -23:54:02 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0011-0020.BIAS | 0 | 02:09 | 17:13:02.9 | -23:54:02 | 300 | 89 | 3.0 | 0 Calibration | 4 | |
| 0021-0040.FLAT | 7 | 02:27 | 08:22:52.3 | +31:33:15 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0041-0050.BIAS | 0 | 02:30 | 08:22:52.3 | +31:33:15 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0051.HD84937 | 20 | 02:47 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0052.COMP | 10 | 02:48 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0053.Feige34 | 150 | 02:50 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0054.COMP | 10 | 02:53 | 10:39:36.7 | +43:06:09 | 300 | 87 | 3.0 | 0 Calibration | 2 | |
| 0055.H07_1343 | 600 | 02:56 | 05:40:05.1 | -02:19:59 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0056.COMP | 10 | 03:06 | 05:40:05.1 | -02:19:59 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0057.H07_1337 | 420 | 03:07 | 05:40:03.4 | -02:29:01 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0058.COMP | 10 | 03:15 | 05:40:03.4 | -02:29:01 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0059.H07_1299 | 660 | 03:17 | 05:39:58.0 | -02:48:01 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0060.COMP | 10 | 03:28 | 05:39:58.0 | -02:48:01 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0061.H07_1374 | 1200 | 03:30 | 05:40:14.7 | -02:22:26 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0062.COMP | 10 | 03:50 | 05:40:14.7 | -02:22:26 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0063.H07_1275 | 1020 | 03:52 | 05:39:54.9 | -02:19:30 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0064.COMP | 10 | 04:10 | 05:39:54.9 | -02:19:30 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0065.N3377 | 120 | 04:13 | 10:47:42.4 | +13:59:08 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0066.COMP | 10 | 04:16 | 10:47:42.4 | +13:59:08 | 300 | 89 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-04-14 Observers M CalkinsColl. Focus 1350 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0067.PSNJ08583607 | 1800 | 04:19 | 08:58:36.1 | +54:19:26 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0068.COMP | 10 | 04:50 | 08:58:36.1 | +54:19:26 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0069.IRAS11267+1558 | 1800 | 04:58 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | #199 Optical n | 2 | |
| 0070.COMP | 10 | 05:29 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | 0 Calibration | 2 | |
| 0071.IRAS11267+1558 | 1800 | 05:29 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | #199 Optical n | 2 | |
| 0072.COMP | 10 | 06:00 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | 0 Calibration | 2 | |
| 0073.IRAS11267+1558 | 1800 | 06:01 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | #199 Optical n | 2 | |
| 0074.COMP | 10 | 06:31 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | 0 Calibration | 2 | |
| 0075.IRAS11267+1558 | 1800 | 06:32 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | #199 Optical n | 2 | |
| 0076.COMP | 10 | 07:03 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | 0 Calibration | 2 | |
| 0077.IRAS11267+1558 | 1800 | 07:03 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | #199 Optical n | 2 | |
| 0078.COMP | 10 | 07:34 | 11:29:24.7 | +15:41:41 | 300 | 75 | 3.0 | 0 Calibration | 2 | |
| 0079.sn2013aj | 1800 | 07:36 | 13:54:00.7 | -07:55:44 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0080.COMP | 10 | 08:07 | 13:54:00.7 | -07:55:44 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0081.sncss1304 | 1800 | 08:12 | 15:02:13.1 | +10:38:46 | 300 | 81 | 3.0 | #2 SN Observat | 2 | |
| 0082.sncss1304 | 1800 | 08:42 | 15:02:13.1 | +10:38:46 | 300 | 81 | 3.0 | #2 SN Observat | 2 | |
| 0083.COMP | 10 | 09:13 | 15:02:13.1 | +10:38:46 | 300 | 81 | 3.0 | 0 Calibration | 2 | |
| 0084.snlsq13vy | 1800 | 09:15 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0085.COMP | 10 | 09:45 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0086.gd518 | 1200 | 09:52 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |

UT Date 2013-04-14 Observers M CalkinsColl. Focus 1350 Grating/Grism 600

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|---------------|-----|----------|
| 0087.COMP | 10 | 10:13 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0088.gd518 | 1200 | 10:14 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0089.COMP | 10 | 10:35 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0090.gd518 | 1200 | 10:35 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0091.COMP | 10 | 10:56 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0092.gd518 | 1200 | 10:57 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0093.COMP | 10 | 11:18 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0094.gd518 | 1200 | 11:18 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0095.COMP | 10 | 11:39 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0096.gd518 | 1200 | 11:39 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0097.COMP | 10 | 12:00 | 16:59:15.1 | +66:10:33 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0098.BDp332642 | 120 | 12:02 | 15:51:59.9 | +32:56:54 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0099.COMP | 10 | 12:04 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0100-0109.BIAS | 0 | 12:07 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0110-0129.FLAT | 12 | 12:16 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0130-0139.BIAS | 0 | 12:22 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 2 | |
| 0140-0149.DARK | 900 | 14:48 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 2 | |

UT Date 2013-04-15 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001-0010.DARK | 900 | 01:48 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0011-0020.BIAS | 0 | 02:05 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0021-0040.FLAT | 7 | 02:21 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0041-0050.BIAS | 0 | 02:26 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0051.HD84937 | 20 | 02:46 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0052.COMP | 10 | 02:48 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0053.Feige34 | 120 | 02:49 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0054.COMP | 10 | 02:52 | 10:39:36.7 | +43:06:09 | 300 | 88 | 3.0 | 0 Calibration | 2 | |
| 0055.cvso-50885010 | 720 | 02:54 | 05:32:25.7 | -01:57:11 | 300 | 88 | 3.0 | #112 PMS Orion | 2 | |
| 0056.COMP | 10 | 03:06 | 05:32:25.7 | -01:57:11 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0057.cvso-50881563 | 960 | 03:08 | 05:32:26.3 | -00:19:39 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0058.COMP | 10 | 03:25 | 05:32:26.3 | -00:19:39 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0059.cvso-50885358 | 780 | 03:26 | 05:32:26.4 | -01:01:42 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0060.COMP | 10 | 03:40 | 05:32:26.4 | -01:01:42 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0061.cvso-50881935 | 900 | 03:41 | 05:32:27.1 | -00:22:46 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0062.COMP | 10 | 03:57 | 05:32:27.1 | -00:22:46 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0063.sn2013ak | 1200 | 04:00 | 08:07:06.7 | -28:03:10 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0064.COMP | 10 | 04:20 | 08:07:06.7 | -28:03:10 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0065.sn2013ao | 1200 | 04:26 | 11:44:44.7 | -20:31:41 | 300 | 75 | 3.0 | #2 SN Observat | 2 | |
| 0066.sn2013ao | 1200 | 04:46 | 11:44:44.7 | -20:31:41 | 300 | 75 | 3.0 | #2 SN Observat | 2 | |

UT Date 2013-04-15 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|--------------------------|
| 0067.sn2013ao | 1200 | 05:06 | 11:44:44.7 | -20:31:41 | 300 | 75 | 3.0 | #2 SN Observat | 2 | |
| 0068.COMP | 10 | 05:27 | 11:44:44.7 | -20:31:41 | 300 | 75 | 3.0 | 0 Calibration | 2 | |
| 0069.lmwd541 | 840 | 05:35 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0070.COMP | 10 | 05:49 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0071.lmwd541 | 840 | 05:50 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0072.COMP | 10 | 06:04 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0073.lmwd541 | 840 | 06:05 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0074.COMP | 10 | 06:19 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0075.lmwd541 | 840 | 06:20 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0076.COMP | 10 | 06:36 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0077.lmwd541 | 840 | 06:36 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0078.COMP | 10 | 06:51 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0079.lmwd541 | 840 | 06:51 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0080.COMP | 10 | 07:06 | 13:55:12.3 | +19:56:45 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0081.lmwd541 | 840 | 07:08 | 13:55:12.3 | +19:56:45 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0082.COMP | 10 | 07:22 | 13:55:12.3 | +19:56:45 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0083.lmwd541 | 840 | 07:24 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0084.COMP | 10 | 07:39 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0085.lmwd541 | 840 | 07:40 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | seeing becoming variable |
| 0086.COMP | 10 | 07:54 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |

UT Date 2013-04-15 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0087.lmwd541 | 840 | 07:55 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0088.COMP | 10 | 08:09 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0089.lmwd541 | 840 | 08:10 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0090.COMP | 10 | 08:24 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0091.lmwd541 | 840 | 08:25 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0092.COMP | 10 | 08:39 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0093.lmwd541 | 840 | 08:40 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0094.COMP | 10 | 08:55 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0095.lmwd541 | 840 | 08:55 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0096.COMP | 10 | 09:09 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0097.lmwd541 | 840 | 09:10 | 13:55:12.3 | +19:56:45 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0098.COMP | 10 | 09:25 | 13:55:12.3 | +19:56:45 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0099.BDp332642 | 120 | 09:26 | 15:51:59.9 | +32:56:54 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0100.COMP | 10 | 09:29 | 15:51:59.9 | +32:56:54 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0101.hotwd120 | 1100 | 09:32 | 14:13:05.1 | -14:29:40 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0102.COMP | 10 | 09:51 | 14:13:05.1 | -14:29:40 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0103.hotwd121 | 1200 | 09:53 | 14:16:57.9 | -17:50:36 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0104.COMP | 10 | 10:13 | 14:16:57.9 | -17:50:36 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0105-0114.FLAT | 12 | 10:18 | 14:16:57.9 | -17:50:36 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0115.sncss1304 | 1800 | 10:30 | 15:02:13.1 | +10:38:46 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |

UT Date 2013-04-15 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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0116.sncss1304 | 1800 | 11:00 | 15:02:13.1 | +10:38:46 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0117.COMP | 10 | 11:31 | 15:02:13.1 | +10:38:46 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0118.snlsq13vy | 1800 | 11:34 | 16:06:55.9 | +03:00:15 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0119.COMP | 10 | 12:04 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0120-0129.BIAS | 0 | 12:10 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0130-0149.FLAT | 7 | 12:17 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0150-0159.DARK | 900 | 14:38 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

UT Date 2013-04-16 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 | 01:43 | 15:06:29.3 | +01:36:20 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0011-0025.FLAT | 7 | 01:49 | 15:06:29.3 | +01:36:20 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0026.cvso-50886538 | 240 | 02:52 | 05:32:36.8 | -00:13:39 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0027.COMP | 10 | 02:56 | 05:32:36.8 | -00:13:39 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0028.cvso-51376650 | 240 | 02:58 | 05:49:20.1 | +01:52:05 | 300 | 89 | 3.0 | #112 PMS Orion | 2 | |
| 0029.COMP | 10 | 03:02 | 05:49:20.1 | +01:52:05 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0030.cvso-51377497 | 360 | 03:03 | 05:49:21.7 | +05:45:54 | 300 | 90 | 3.0 | #112 PMS Orion | 2 | |
| 0031.COMP | 10 | 03:09 | 05:49:21.7 | +05:45:54 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0032.HD84937 | 30 | 03:12 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0033.HD84937 | 30 | 03:13 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0034.HD84937 | 30 | 03:13 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #56 Spectropho | 2 | |
| 0035.COMP | 10 | 03:14 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0036.IRAS11267+1558 | 1800 | 03:18 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | #199 Optical n | 2 | |
| 0037.COMP | 10 | 03:48 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | 0 Calibration | 2 | |
| 0038.IRAS11267+1558 | 1800 | 03:49 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | #199 Optical n | 2 | |
| 0039.COMP | 10 | 04:19 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | 0 Calibration | 2 | |
| 0040.IRAS11267+1558 | 1800 | 04:19 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | #199 Optical n | 2 | |
| 0041.COMP | 10 | 04:50 | 11:29:24.7 | +15:41:41 | 300 | 74 | 3.0 | 0 Calibration | 2 | |
| 0042.HD84937 | 30 | 04:51 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0043.HD84937 | 30 | 04:52 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0044.HD84937 | 30 | 04:53 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0045.HD84937 | 30 | 04:54 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0046.COMP | 10 | 04:55 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0047.Feige34 | 180 | 04:56 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0048.COMP | 10 | 05:00 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0049.sn2013be | 1800 | 05:04 | 12:36:27.7 | +11:45:28 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0050.COMP | 10 | 05:35 | 12:36:27.7 | +11:45:28 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0051.HD84937 | 30 | 05:37 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0052.HD84937 | 30 | 05:37 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0053.HD84937 | 30 | 05:38 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0054.COMP | 10 | 05:39 | 09:48:56.1 | +13:44:39 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0055.MCG6-33-022 | 1200 | 05:42 | 15:08:06.0 | +34:23:26 | 300 | 46 | 3.0 | #199 Optical n | 2 | |
| 0056.COMP | 10 | 06:02 | 15:08:06.0 | +34:23:26 | 300 | 46 | 3.0 | 0 Calibration | 2 | |
| 0057.MCG6-33-022 | 1200 | 06:03 | 15:08:06.0 | +34:23:26 | 300 | 46 | 3.0 | #199 Optical n | 2 | |
| 0058.COMP | 10 | 06:24 | 15:08:06.0 | +34:23:26 | 300 | 46 | 3.0 | 0 Calibration | 2 | |
| 0059.MCG6-33-022 | 1200 | 06:25 | 15:08:06.0 | +34:23:26 | 300 | 46 | 3.0 | #199 Optical n | 2 | |
| 0060.COMP | 10 | 06:46 | 15:08:06.0 | +34:23:26 | 300 | 46 | 3.0 | 0 Calibration | 2 | |
| 0061.HD84937 | 30 | 06:49 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0062.HD84937 | 30 | 06:49 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0063.HD84937 | 30 | 06:50 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0064.COMP | 10 | 06:51 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0065.Feige34 | 180 | 06:52 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0066.COMP | 10 | 06:56 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0067.sn2013aj | 1800 | 06:58 | 13:54:00.7 | -07:55:44 | 300 | 89 | 3.0 | #2 SN Observat | 2 | |
| 0068.COMP | 10 | 07:29 | 13:54:00.7 | -07:55:44 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0069.HD84937 | 30 | 07:30 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0070.HD84937 | 30 | 07:31 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0071.HD84937 | 30 | 07:32 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0072.COMP | 10 | 07:33 | 09:48:56.1 | +13:44:39 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0073.COMP | 10 | 07:37 | 15:35:53.9 | +38:40:32 | 300 | -10 | 3.0 | 0 Calibration | 2 | |
| 0074.UGC9922_NED02 | 900 | 07:39 | 15:35:53.9 | +38:40:32 | 300 | -10 | 3.0 | #199 Optical n | 2 | |
| 0075.UGC9922_NED02 | 900 | 07:54 | 15:35:53.9 | +38:40:32 | 300 | -10 | 3.0 | #199 Optical n | 2 | |
| 0076.UGC9922_NED02 | 900 | 08:09 | 15:35:53.9 | +38:40:32 | 300 | -10 | 3.0 | #199 Optical n | 2 | |
| 0077.COMP | 10 | 08:25 | 15:35:53.9 | +38:40:32 | 300 | -11 | 3.0 | 0 Calibration | 2 | |
| 0078.BDp262606 | 90 | 08:28 | 14:49:02.4 | +25:42:09 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0079.COMP | 10 | 08:30 | 14:49:02.4 | +25:42:09 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0080.Feige34 | 180 | 08:32 | 10:39:36.7 | +43:06:09 | 300 | 89 | 3.0 | #215 Grid of W | 2 | |
| 0081.COMP | 10 | 08:35 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0082.sn1sq13vy | 1800 | 08:39 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0083.COMP | 10 | 09:10 | 16:06:55.9 | +03:00:15 | 300 | 90 | 3.0 | 0 Calibration | 2 | |

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| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0084.Feige34 | 180 | 09:13 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | #215 Grid of W | 2 | |
| 0085.COMP | 10 | 09:16 | 10:39:36.7 | +43:06:09 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0086.BDp332642 | 120 | 09:18 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | #56 Spectropho | 2 | |
| 0087.COMP | 10 | 09:21 | 15:51:59.9 | +32:56:54 | 300 | 89 | 3.0 | 0 Calibration | 2 | |
| 0088.hotwd128 | 900 | 09:26 | 14:50:06.6 | +40:55:35 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0089.COMP | 10 | 09:41 | 14:50:06.6 | +40:55:35 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0090.hotwd131 | 1500 | 09:45 | 14:56:34.7 | +30:04:51 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0091.COMP | 10 | 10:10 | 14:56:34.7 | +30:04:51 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0092.hotwd130 | 1800 | 10:12 | 14:56:33.7 | -02:25:46 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0093.COMP | 10 | 10:43 | 14:56:33.7 | -02:25:46 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0094.hotwd132 | 1800 | 10:44 | 15:04:16.6 | +07:27:31 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0095.COMP | 10 | 11:15 | 15:04:16.6 | +07:27:31 | 600 | 89 | 1.5 | 0 Calibration | 4 | |
| 0096.hotwd142 | 1202 | 11:17 | 15:46:33.5 | +00:46:56 | 600 | 89 | 1.5 | #178 Low Mass | 4 | |
| 0097.COMP | 10 | 11:37 | 15:46:33.5 | +00:46:56 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0098.BDp332642 | 120 | 11:38 | 15:51:59.9 | +32:56:54 | 600 | 90 | 1.5 | #178 Low Mass | 4 | |
| 0099.COMP | 10 | 11:41 | 15:51:59.9 | +32:56:54 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0100-0109.FLAT | 12 | 11:45 | 19:00:00.0 | +32:00:00 | 600 | 90 | 1.5 | 0 Calibration | 4 | |
| 0110.test | 10 | 11:47 | 19:00:00.0 | +32:00:00 | 300 | 90 | 3.0 | #178 Low Mass | 2 | |
| 0111.BFCyg | 20 | 11:49 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0112.BFCyg | 45 | 11:50 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | #12 Symbiotic | 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> |
|----------------|-----------------|-----------------|------------|------------|------------|-------------|-------------|----------------|------------|-----------------|
| 0113.COMP | 10 | 11:51 | 19:23:53.0 | +29:40:27 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0114.CICyg | 5 | 11:52 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0115.CICyg | 20 | 11:52 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0116.CICyg | 120 | 11:53 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0117.COMP | 10 | 11:55 | 19:50:12.0 | +35:41:02 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0118.PUVul | 90 | 11:56 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0119.PUVul | 10 | 11:58 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0120.COMP | 10 | 11:59 | 20:21:13.0 | +21:34:21 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0121.CHCyg | 2 | 12:00 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0122.CHCyg | 10 | 12:01 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0123.CHCyg | 4 | 12:01 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0124.COMP | 10 | 12:01 | 19:24:33.0 | +50:14:30 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0125.YYHer | 60 | 12:02 | 18:14:34.0 | +20:59:19 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0126.YYHer | 90 | 12:04 | 18:14:34.0 | +20:59:19 | 300 | 90 | 3.0 | #12 Symbiotic | 2 | |
| 0127.COMP | 10 | 12:06 | 18:14:34.0 | +20:59:19 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0128-0137.BIAS | 0 | 12:09 | 18:14:34.0 | +20:59:19 | 300 | 90 | 3.0 | 0 Calibration | 4 | |
| 0138-0147.BIAS | 0 | 12:11 | 18:14:34.0 | +20:59:19 | 300 | 90 | 3.0 | 0 Calibration | 2 | |
| 0148-0162.FLAT | 7 | 12:17 | 18:14:34.0 | +20:59:19 | 300 | 90 | 3.0 | 0 Calibration | 2 | |