

**EYEPIECE FIELD OF VIEW  
OVERLAY DIMENSIONS**

for

**The DEEP SPACE  
IMAGE CATALOG**

## Introduction

This booklet presents a wide range of dimensions that can be used to make custom eyepiece field of view overlay transparencies as described in chapter 6 of the book: DEEP SPACE IMAGE CATALOG by Roger Blake.

## How to Read This Booklet

Each of the following pages contains data similar to that shown below. The user finds the block that most closely matches the **Focal Length** (FL) of his telescope using column 1. He then finds the rows that most closely matches the focal length and the design field of view of his eyepiece in columns 2 and 3. The diameter of the overlay is then read from the last two columns.

**Example:** Assume a telescope with a 900 mm focal length to be used with a 12mm eyepiece that has a 50° design field of view. The overlay transparency should therefore be constructed with two circles.

The circle to be overlaid on the images labeled “20x” should have a 61 mm diameter. The circle to be overlaid on the images labeled “40x” should have a 123 mm diameter.

\*\* notations identify those overlay dimensions that are larger than 8.5”.

| EYEPIECE FIELD OF VIEW OVERLAYS |                 |                             |                 |                             |  |                       |
|---------------------------------|-----------------|-----------------------------|-----------------|-----------------------------|--|-----------------------|
| Scope<br>FL(mm)                 | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency |                       |
|                                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                        | 40x Images<br>Dia(mm) |
| 900                             | 6               | 35                          | 150x            | 14                          | 21   | 43                    |
| 900                             | 6               | 50                          | 150x            | 20                          | 31   | 61                    |
| 900                             | 6               | 65                          | 150x            | 26                          | 40   | 80                    |
| 900                             | 6               | 80                          | 150x            | 32                          | 49   | 98                    |
| 900                             | 12              | 35                          | 75x             | 28                          | 43   | 86                    |
| 900                             | 12              | 50                          | 75x             | 40                          | 61   | 123                   |
| 900                             | 12              | 65                          | 75x             | 52                          | 80   | 160                   |
| 900                             | 12              | 80                          | 75x             | 64                          | 98   | 196                   |
| 900                             | 18              | 35                          | 50x             | 42                          | 64   | 129                   |
| 900                             | 18              | 50                          | 50x             | 60                          | 92   | 184                   |
| 900                             | 18              | 65                          | 50x             | 78                          | 120  | 239 **                |
| 900                             | 18              | 80                          | 50x             | 96                          | 147  | 294 **                |
| 900                             | 25              | 35                          | 36x             | 58                          | 89   | 179                   |
| 900                             | 25              | 50                          | 36x             | 83                          | 128  | 256 **                |
| 900                             | 25              | 65                          | 36x             | 108                         | 166  | 332 **                |
| 900                             | 25              | 80                          | 36x             | 133                         | 204  | 409 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 500             | 6               | 35                          | 83x             | 25                          | 39  | 77                    |
| 500             | 6               | 50                          | 83x             | 36                          | 55  | 110                   |
| 500             | 6               | 65                          | 83x             | 47                          | 72  | 144                   |
| 500             | 6               | 80                          | 83x             | 58                          | 88  | 177                   |
| 500             | 12              | 35                          | 42x             | 50                          | 77  | 155                   |
| 500             | 12              | 50                          | 42x             | 72                          | 110   | 221 **                |
| 500             | 12              | 65                          | 42x             | 94                          | 144   | 287 **                |
| 500             | 12              | 80                          | 42x             | 115                         | 177   | 353 **                |
| 500             | 18              | 35                          | 28x             | 76                          | 116   | 232 **                |
| 500             | 18              | 50                          | 28x             | 108                         | 166   | 331 **                |
| 500             | 18              | 65                          | 28x             | 140                         | 215 **  | 431 **                |
| 500             | 18              | 80                          | 28x             | 173                         | 265 **  | 530 **                |
| 500             | 25              | 35                          | 20x             | 105                         | 161   | 322 **                |
| 500             | 25              | 50                          | 20x             | 150                         | 230 **  | 460 **                |
| 500             | 25              | 65                          | 20x             | 195                         | 299 **  | 598 **                |
| 500             | 25              | 80                          | 20x             | 240                         | 368 **  | 736 **                |
| 500             | 32              | 35                          | 16x             | 134                         | 206   | 412 **                |
| 500             | 32              | 50                          | 16x             | 192                         | 294 **  | 589 **                |
| 500             | 32              | 65                          | 16x             | 250                         | 383 **  | 766 **                |
| 500             | 32              | 80                          | 16x             | 307                         | 471 **  | 942 **                |
| 500             | 40              | 35                          | 13x             | 168                         | 258 **  | 515 **                |
| 500             | 40              | 50                          | 13x             | 240                         | 368 **  | 736 **                |
| 500             | 40              | 65                          | 13x             | 312                         | 479 **  | 957 **                |
| 500             | 40              | 80                          | 13x             | 384                         | 589 **  | 1178 **               |
| 600             | 6               | 35                          | 100x            | 21                          | 32  | 64                    |
| 600             | 6               | 50                          | 100x            | 30                          | 46  | 92                    |
| 600             | 6               | 65                          | 100x            | 39                          | 60  | 120                   |
| 600             | 6               | 80                          | 100x            | 48                          | 74  | 147                   |
| 600             | 12              | 35                          | 50x             | 42                          | 64  | 129                   |
| 600             | 12              | 50                          | 50x             | 60                          | 92  | 184                   |
| 600             | 12              | 65                          | 50x             | 78                          | 120   | 239 **                |
| 600             | 12              | 80                          | 50x             | 96                          | 147   | 294 **                |
| 600             | 18              | 35                          | 33x             | 63                          | 97  | 193                   |
| 600             | 18              | 50                          | 33x             | 90                          | 138   | 276 **                |
| 600             | 18              | 65                          | 33x             | 117                         | 179   | 359 **                |
| 600             | 18              | 80                          | 33x             | 144                         | 221 **  | 442 **                |
| 600             | 25              | 35                          | 24x             | 88                          | 134   | 268 **                |
| 600             | 25              | 50                          | 24x             | 125                         | 192   | 383 **                |
| 600             | 25              | 65                          | 24x             | 163                         | 249 **  | 498 **                |
| 600             | 25              | 80                          | 24x             | 200                         | 307 **  | 613 **                |
| 600             | 32              | 35                          | 19x             | 112                         | 172   | 344 **                |
| 600             | 32              | 50                          | 19x             | 160                         | 245 **  | 491 **                |
| 600             | 32              | 65                          | 19x             | 208                         | 319 **  | 638 **                |
| 600             | 32              | 80                          | 19x             | 256                         | 393 **  | 785 **                |
| 600             | 40              | 35                          | 15x             | 140                         | 215 **  | 429 **                |
| 600             | 40              | 50                          | 15x             | 200                         | 307 **  | 613 **                |
| 600             | 40              | 65                          | 15x             | 260                         | 399 **  | 798 **                |
| 600             | 40              | 80                          | 15x             | 320                         | 491 **  | 982 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 700             | 6               | 35                          | 117x            | 18                          | 28  | 55                    |
| 700             | 6               | 50                          | 117x            | 26                          | 39  | 79                    |
| 700             | 6               | 65                          | 117x            | 33                          | 51  | 103                   |
| 700             | 6               | 80                          | 117x            | 41                          | 63  | 126                   |
| 700             | 12              | 35                          | 58x             | 36                          | 55  | 110                   |
| 700             | 12              | 50                          | 58x             | 51                          | 79  | 158                   |
| 700             | 12              | 65                          | 58x             | 67                          | 103   | 205                   |
| 700             | 12              | 80                          | 58x             | 82                          | 126   | 252 **                |
| 700             | 18              | 35                          | 39x             | 54                          | 83  | 166                   |
| 700             | 18              | 50                          | 39x             | 77                          | 118   | 237 **                |
| 700             | 18              | 65                          | 39x             | 100                         | 154   | 308 **                |
| 700             | 18              | 80                          | 39x             | 123                         | 189   | 379 **                |
| 700             | 25              | 35                          | 28x             | 75                          | 115   | 230 **                |
| 700             | 25              | 50                          | 28x             | 107                         | 164   | 329 **                |
| 700             | 25              | 65                          | 28x             | 139                         | 214 **  | 427 **                |
| 700             | 25              | 80                          | 28x             | 171                         | 263 **  | 526 **                |
| 700             | 32              | 35                          | 22x             | 96                          | 147   | 294 **                |
| 700             | 32              | 50                          | 22x             | 137                         | 210   | 421 **                |
| 700             | 32              | 65                          | 22x             | 178                         | 273 **  | 547 **                |
| 700             | 32              | 80                          | 22x             | 219                         | 337 **  | 673 **                |
| 700             | 40              | 35                          | 18x             | 120                         | 184   | 368 **                |
| 700             | 40              | 50                          | 18x             | 171                         | 263 **  | 526 **                |
| 700             | 40              | 65                          | 18x             | 223                         | 342 **  | 684 **                |
| 700             | 40              | 80                          | 18x             | 274                         | 421 **  | 841 **                |
| 800             | 6               | 35                          | 133x            | 16                          | 24  | 48                    |
| 800             | 6               | 50                          | 133x            | 23                          | 35  | 69                    |
| 800             | 6               | 65                          | 133x            | 29                          | 45  | 90                    |
| 800             | 6               | 80                          | 133x            | 36                          | 55  | 110                   |
| 800             | 12              | 35                          | 67x             | 32                          | 48  | 97                    |
| 800             | 12              | 50                          | 67x             | 45                          | 69  | 138                   |
| 800             | 12              | 65                          | 67x             | 59                          | 90  | 179                   |
| 800             | 12              | 80                          | 67x             | 72                          | 110   | 221 **                |
| 800             | 18              | 35                          | 44x             | 47                          | 72  | 145                   |
| 800             | 18              | 50                          | 44x             | 68                          | 104   | 207                   |
| 800             | 18              | 65                          | 44x             | 88                          | 135   | 269 **                |
| 800             | 18              | 80                          | 44x             | 108                         | 166   | 331 **                |
| 800             | 25              | 35                          | 32x             | 66                          | 101   | 201                   |
| 800             | 25              | 50                          | 32x             | 94                          | 144   | 288 **                |
| 800             | 25              | 65                          | 32x             | 122                         | 187   | 374 **                |
| 800             | 25              | 80                          | 32x             | 150                         | 230 **  | 460 **                |
| 800             | 32              | 35                          | 25x             | 84                          | 129   | 258 **                |
| 800             | 32              | 50                          | 25x             | 120                         | 184   | 368 **                |
| 800             | 32              | 65                          | 25x             | 156                         | 239 **  | 479 **                |
| 800             | 32              | 80                          | 25x             | 192                         | 294 **  | 589 **                |
| 800             | 40              | 35                          | 20x             | 105                         | 161   | 322 **                |
| 800             | 40              | 50                          | 20x             | 150                         | 230 **  | 460 **                |
| 800             | 40              | 65                          | 20x             | 195                         | 299 **  | 598 **                |
| 800             | 40              | 80                          | 20x             | 240                         | 368 **  | 736 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 900             | 6               | 35                          | 150x            | 14                          | 21  | 43                    |
| 900             | 6               | 50                          | 150x            | 20                          | 31  | 61                    |
| 900             | 6               | 65                          | 150x            | 26                          | 40  | 80                    |
| 900             | 6               | 80                          | 150x            | 32                          | 49  | 98                    |
| 900             | 12              | 35                          | 75x             | 28                          | 43  | 86                    |
| 900             | 12              | 50                          | 75x             | 40                          | 61  | 123                   |
| 900             | 12              | 65                          | 75x             | 52                          | 80  | 160                   |
| 900             | 12              | 80                          | 75x             | 64                          | 98  | 196                   |
| 900             | 18              | 35                          | 50x             | 42                          | 64  | 129                   |
| 900             | 18              | 50                          | 50x             | 60                          | 92  | 184                   |
| 900             | 18              | 65                          | 50x             | 78                          | 120   | 239 **                |
| 900             | 18              | 80                          | 50x             | 96                          | 147   | 294 **                |
| 900             | 25              | 35                          | 36x             | 58                          | 89  | 179                   |
| 900             | 25              | 50                          | 36x             | 83                          | 128   | 256 **                |
| 900             | 25              | 65                          | 36x             | 108                         | 166   | 332 **                |
| 900             | 25              | 80                          | 36x             | 133                         | 204   | 409 **                |
| 900             | 32              | 35                          | 28x             | 75                          | 115   | 229 **                |
| 900             | 32              | 50                          | 28x             | 107                         | 164   | 327 **                |
| 900             | 32              | 65                          | 28x             | 139                         | 213 **  | 425 **                |
| 900             | 32              | 80                          | 28x             | 171                         | 262 **  | 524 **                |
| 900             | 40              | 35                          | 23x             | 93                          | 143   | 286 **                |
| 900             | 40              | 50                          | 23x             | 133                         | 204   | 409 **                |
| 900             | 40              | 65                          | 23x             | 173                         | 266 **  | 532 **                |
| 900             | 40              | 80                          | 23x             | 213                         | 327 **  | 654 **                |
| 1000            | 6               | 35                          | 167x            | 13                          | 19  | 39                    |
| 1000            | 6               | 50                          | 167x            | 18                          | 28  | 55                    |
| 1000            | 6               | 65                          | 167x            | 23                          | 36  | 72                    |
| 1000            | 6               | 80                          | 167x            | 29                          | 44  | 88                    |
| 1000            | 12              | 35                          | 83x             | 25                          | 39  | 77                    |
| 1000            | 12              | 50                          | 83x             | 36                          | 55  | 110                   |
| 1000            | 12              | 65                          | 83x             | 47                          | 72  | 144                   |
| 1000            | 12              | 80                          | 83x             | 58                          | 88  | 177                   |
| 1000            | 18              | 35                          | 56x             | 38                          | 58  | 116                   |
| 1000            | 18              | 50                          | 56x             | 54                          | 83  | 166                   |
| 1000            | 18              | 65                          | 56x             | 70                          | 108   | 215 **                |
| 1000            | 18              | 80                          | 56x             | 86                          | 133   | 265 **                |
| 1000            | 25              | 35                          | 40x             | 53                          | 81  | 161                   |
| 1000            | 25              | 50                          | 40x             | 75                          | 115   | 230 **                |
| 1000            | 25              | 65                          | 40x             | 98                          | 150   | 299 **                |
| 1000            | 25              | 80                          | 40x             | 120                         | 184   | 368 **                |
| 1000            | 32              | 35                          | 31x             | 67                          | 103   | 206                   |
| 1000            | 32              | 50                          | 31x             | 96                          | 147   | 294 **                |
| 1000            | 32              | 65                          | 31x             | 125                         | 191   | 383 **                |
| 1000            | 32              | 80                          | 31x             | 154                         | 236 **  | 471 **                |
| 1000            | 40              | 35                          | 25x             | 84                          | 129   | 258 **                |
| 1000            | 40              | 50                          | 25x             | 120                         | 184   | 368 **                |
| 1000            | 40              | 65                          | 25x             | 156                         | 239 **  | 479 **                |
| 1000            | 40              | 80                          | 25x             | 192                         | 294 **  | 589 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 1100            | 6               | 35                          | 183x            | 11                          | 18  | 35                    |
| 1100            | 6               | 50                          | 183x            | 16                          | 25  | 50                    |
| 1100            | 6               | 65                          | 183x            | 21                          | 33  | 65                    |
| 1100            | 6               | 80                          | 183x            | 26                          | 40  | 80                    |
| 1100            | 12              | 35                          | 92x             | 23                          | 35  | 70                    |
| 1100            | 12              | 50                          | 92x             | 33                          | 50  | 100                   |
| 1100            | 12              | 65                          | 92x             | 43                          | 65  | 131                   |
| 1100            | 12              | 80                          | 92x             | 52                          | 80  | 161                   |
| 1100            | 18              | 35                          | 61x             | 34                          | 53  | 105                   |
| 1100            | 18              | 50                          | 61x             | 49                          | 75  | 151                   |
| 1100            | 18              | 65                          | 61x             | 64                          | 98  | 196                   |
| 1100            | 18              | 80                          | 61x             | 79                          | 120   | 241 **                |
| 1100            | 25              | 35                          | 44x             | 48                          | 73  | 146                   |
| 1100            | 25              | 50                          | 44x             | 68                          | 105   | 209                   |
| 1100            | 25              | 65                          | 44x             | 89                          | 136   | 272 **                |
| 1100            | 25              | 80                          | 44x             | 109                         | 167   | 335 **                |
| 1100            | 32              | 35                          | 34x             | 61                          | 94  | 187                   |
| 1100            | 32              | 50                          | 34x             | 87                          | 134   | 268 **                |
| 1100            | 32              | 65                          | 34x             | 113                         | 174   | 348 **                |
| 1100            | 32              | 80                          | 34x             | 140                         | 214 **  | 428 **                |
| 1100            | 40              | 35                          | 28x             | 76                          | 117   | 234 **                |
| 1100            | 40              | 50                          | 28x             | 109                         | 167   | 335 **                |
| 1100            | 40              | 65                          | 28x             | 142                         | 218 **  | 435 **                |
| 1100            | 40              | 80                          | 28x             | 175                         | 268 **  | 535 **                |
| 1200            | 6               | 35                          | 200x            | 11                          | 16  | 32                    |
| 1200            | 6               | 50                          | 200x            | 15                          | 23  | 46                    |
| 1200            | 6               | 65                          | 200x            | 20                          | 30  | 60                    |
| 1200            | 6               | 80                          | 200x            | 24                          | 37  | 74                    |
| 1200            | 12              | 35                          | 100x            | 21                          | 32  | 64                    |
| 1200            | 12              | 50                          | 100x            | 30                          | 46  | 92                    |
| 1200            | 12              | 65                          | 100x            | 39                          | 60  | 120                   |
| 1200            | 12              | 80                          | 100x            | 48                          | 74  | 147                   |
| 1200            | 18              | 35                          | 67x             | 32                          | 48  | 97                    |
| 1200            | 18              | 50                          | 67x             | 45                          | 69  | 138                   |
| 1200            | 18              | 65                          | 67x             | 59                          | 90  | 179                   |
| 1200            | 18              | 80                          | 67x             | 72                          | 110   | 221 **                |
| 1200            | 25              | 35                          | 48x             | 44                          | 67  | 134                   |
| 1200            | 25              | 50                          | 48x             | 63                          | 96  | 192                   |
| 1200            | 25              | 65                          | 48x             | 81                          | 125   | 249 **                |
| 1200            | 25              | 80                          | 48x             | 100                         | 153   | 307 **                |
| 1200            | 32              | 35                          | 38x             | 56                          | 86  | 172                   |
| 1200            | 32              | 50                          | 38x             | 80                          | 123   | 245 **                |
| 1200            | 32              | 65                          | 38x             | 104                         | 160   | 319 **                |
| 1200            | 32              | 80                          | 38x             | 128                         | 196   | 393 **                |
| 1200            | 40              | 35                          | 30x             | 70                          | 107   | 215 **                |
| 1200            | 40              | 50                          | 30x             | 100                         | 153   | 307 **                |
| 1200            | 40              | 65                          | 30x             | 130                         | 199   | 399 **                |
| 1200            | 40              | 80                          | 30x             | 160                         | 245 **  | 491 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 1300            | 6               | 35                          | 217x            | 10                          | 15  | 30                    |
| 1300            | 6               | 50                          | 217x            | 14                          | 21  | 42                    |
| 1300            | 6               | 65                          | 217x            | 18                          | 28  | 55                    |
| 1300            | 6               | 80                          | 217x            | 22                          | 34  | 68                    |
| 1300            | 12              | 35                          | 108x            | 19                          | 30  | 59                    |
| 1300            | 12              | 50                          | 108x            | 28                          | 42  | 85                    |
| 1300            | 12              | 65                          | 108x            | 36                          | 55  | 110                   |
| 1300            | 12              | 80                          | 108x            | 44                          | 68  | 136                   |
| 1300            | 18              | 35                          | 72x             | 29                          | 45  | 89                    |
| 1300            | 18              | 50                          | 72x             | 42                          | 64  | 127                   |
| 1300            | 18              | 65                          | 72x             | 54                          | 83  | 166                   |
| 1300            | 18              | 80                          | 72x             | 66                          | 102   | 204                   |
| 1300            | 25              | 35                          | 52x             | 40                          | 62  | 124                   |
| 1300            | 25              | 50                          | 52x             | 58                          | 88  | 177                   |
| 1300            | 25              | 65                          | 52x             | 75                          | 115   | 230 **                |
| 1300            | 25              | 80                          | 52x             | 92                          | 142   | 283 **                |
| 1300            | 32              | 35                          | 41x             | 52                          | 79  | 159                   |
| 1300            | 32              | 50                          | 41x             | 74                          | 113   | 227 **                |
| 1300            | 32              | 65                          | 41x             | 96                          | 147   | 294 **                |
| 1300            | 32              | 80                          | 41x             | 118                         | 181   | 362 **                |
| 1300            | 40              | 35                          | 33x             | 65                          | 99  | 198                   |
| 1300            | 40              | 50                          | 33x             | 92                          | 142   | 283 **                |
| 1300            | 40              | 65                          | 33x             | 120                         | 184   | 368 **                |
| 1300            | 40              | 80                          | 33x             | 148                         | 227 **  | 453 **                |
| 1400            | 6               | 35                          | 233x            | 9                           | 14  | 28                    |
| 1400            | 6               | 50                          | 233x            | 13                          | 20  | 39                    |
| 1400            | 6               | 65                          | 233x            | 17                          | 26  | 51                    |
| 1400            | 6               | 80                          | 233x            | 21                          | 32  | 63                    |
| 1400            | 12              | 35                          | 117x            | 18                          | 28  | 55                    |
| 1400            | 12              | 50                          | 117x            | 26                          | 39  | 79                    |
| 1400            | 12              | 65                          | 117x            | 33                          | 51  | 103                   |
| 1400            | 12              | 80                          | 117x            | 41                          | 63  | 126                   |
| 1400            | 18              | 35                          | 78x             | 27                          | 41  | 83                    |
| 1400            | 18              | 50                          | 78x             | 39                          | 59  | 118                   |
| 1400            | 18              | 65                          | 78x             | 50                          | 77  | 154                   |
| 1400            | 18              | 80                          | 78x             | 62                          | 95  | 189                   |
| 1400            | 25              | 35                          | 56x             | 38                          | 58  | 115                   |
| 1400            | 25              | 50                          | 56x             | 54                          | 82  | 164                   |
| 1400            | 25              | 65                          | 56x             | 70                          | 107   | 214 **                |
| 1400            | 25              | 80                          | 56x             | 86                          | 131   | 263 **                |
| 1400            | 32              | 35                          | 44x             | 48                          | 74  | 147                   |
| 1400            | 32              | 50                          | 44x             | 69                          | 105   | 210                   |
| 1400            | 32              | 65                          | 44x             | 89                          | 137   | 273 **                |
| 1400            | 32              | 80                          | 44x             | 110                         | 168   | 337 **                |
| 1400            | 40              | 35                          | 35x             | 60                          | 92  | 184                   |
| 1400            | 40              | 50                          | 35x             | 86                          | 131   | 263 **                |
| 1400            | 40              | 65                          | 35x             | 111                         | 171   | 342 **                |
| 1400            | 40              | 80                          | 35x             | 137                         | 210   | 421 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 1500            | 6               | 35                          | 250x            | 8                           | 13  | 26                    |
| 1500            | 6               | 50                          | 250x            | 12                          | 18  | 37                    |
| 1500            | 6               | 65                          | 250x            | 16                          | 24  | 48                    |
| 1500            | 6               | 80                          | 250x            | 19                          | 29  | 59                    |
| 1500            | 12              | 35                          | 125x            | 17                          | 26  | 52                    |
| 1500            | 12              | 50                          | 125x            | 24                          | 37  | 74                    |
| 1500            | 12              | 65                          | 125x            | 31                          | 48  | 96                    |
| 1500            | 12              | 80                          | 125x            | 38                          | 59  | 118                   |
| 1500            | 18              | 35                          | 83x             | 25                          | 39  | 77                    |
| 1500            | 18              | 50                          | 83x             | 36                          | 55  | 110                   |
| 1500            | 18              | 65                          | 83x             | 47                          | 72  | 144                   |
| 1500            | 18              | 80                          | 83x             | 58                          | 88  | 177                   |
| 1500            | 25              | 35                          | 60x             | 35                          | 54  | 107                   |
| 1500            | 25              | 50                          | 60x             | 50                          | 77  | 153                   |
| 1500            | 25              | 65                          | 60x             | 65                          | 100   | 199                   |
| 1500            | 25              | 80                          | 60x             | 80                          | 123   | 245 **                |
| 1500            | 32              | 35                          | 47x             | 45                          | 69  | 137                   |
| 1500            | 32              | 50                          | 47x             | 64                          | 98  | 196                   |
| 1500            | 32              | 65                          | 47x             | 83                          | 128   | 255 **                |
| 1500            | 32              | 80                          | 47x             | 102                         | 157   | 314 **                |
| 1500            | 40              | 35                          | 38x             | 56                          | 86  | 172                   |
| 1500            | 40              | 50                          | 38x             | 80                          | 123   | 245 **                |
| 1500            | 40              | 65                          | 38x             | 104                         | 160   | 319 **                |
| 1500            | 40              | 80                          | 38x             | 128                         | 196   | 393 **                |
| 1600            | 6               | 35                          | 267x            | 8                           | 12  | 24                    |
| 1600            | 6               | 50                          | 267x            | 11                          | 17  | 35                    |
| 1600            | 6               | 65                          | 267x            | 15                          | 22  | 45                    |
| 1600            | 6               | 80                          | 267x            | 18                          | 28  | 55                    |
| 1600            | 12              | 35                          | 133x            | 16                          | 24  | 48                    |
| 1600            | 12              | 50                          | 133x            | 23                          | 35  | 69                    |
| 1600            | 12              | 65                          | 133x            | 29                          | 45  | 90                    |
| 1600            | 12              | 80                          | 133x            | 36                          | 55  | 110                   |
| 1600            | 18              | 35                          | 89x             | 24                          | 36  | 72                    |
| 1600            | 18              | 50                          | 89x             | 34                          | 52  | 104                   |
| 1600            | 18              | 65                          | 89x             | 44                          | 67  | 135                   |
| 1600            | 18              | 80                          | 89x             | 54                          | 83  | 166                   |
| 1600            | 25              | 35                          | 64x             | 33                          | 50  | 101                   |
| 1600            | 25              | 50                          | 64x             | 47                          | 72  | 144                   |
| 1600            | 25              | 65                          | 64x             | 61                          | 93  | 187                   |
| 1600            | 25              | 80                          | 64x             | 75                          | 115   | 230 **                |
| 1600            | 32              | 35                          | 50x             | 42                          | 64  | 129                   |
| 1600            | 32              | 50                          | 50x             | 60                          | 92  | 184                   |
| 1600            | 32              | 65                          | 50x             | 78                          | 120   | 239 **                |
| 1600            | 32              | 80                          | 50x             | 96                          | 147   | 294 **                |
| 1600            | 40              | 35                          | 40x             | 53                          | 81  | 161                   |
| 1600            | 40              | 50                          | 40x             | 75                          | 115   | 230 **                |
| 1600            | 40              | 65                          | 40x             | 98                          | 150   | 299 **                |
| 1600            | 40              | 80                          | 40x             | 120                         | 184   | 368 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 1700            | 6               | 35                          | 283x            | 7                           | 11  | 23                    |
| 1700            | 6               | 50                          | 283x            | 11                          | 16  | 32                    |
| 1700            | 6               | 65                          | 283x            | 14                          | 21  | 42                    |
| 1700            | 6               | 80                          | 283x            | 17                          | 26  | 52                    |
| 1700            | 12              | 35                          | 142x            | 15                          | 23  | 45                    |
| 1700            | 12              | 50                          | 142x            | 21                          | 32  | 65                    |
| 1700            | 12              | 65                          | 142x            | 28                          | 42  | 84                    |
| 1700            | 12              | 80                          | 142x            | 34                          | 52  | 104                   |
| 1700            | 18              | 35                          | 94x             | 22                          | 34  | 68                    |
| 1700            | 18              | 50                          | 94x             | 32                          | 49  | 97                    |
| 1700            | 18              | 65                          | 94x             | 41                          | 63  | 127                   |
| 1700            | 18              | 80                          | 94x             | 51                          | 78  | 156                   |
| 1700            | 25              | 35                          | 68x             | 31                          | 47  | 95                    |
| 1700            | 25              | 50                          | 68x             | 44                          | 68  | 135                   |
| 1700            | 25              | 65                          | 68x             | 57                          | 88  | 176                   |
| 1700            | 25              | 80                          | 68x             | 71                          | 108   | 217 **                |
| 1700            | 32              | 35                          | 53x             | 40                          | 61  | 121                   |
| 1700            | 32              | 50                          | 53x             | 56                          | 87  | 173                   |
| 1700            | 32              | 65                          | 53x             | 73                          | 113   | 225 **                |
| 1700            | 32              | 80                          | 53x             | 90                          | 139   | 277 **                |
| 1700            | 40              | 35                          | 43x             | 49                          | 76  | 152                   |
| 1700            | 40              | 50                          | 43x             | 71                          | 108   | 217 **                |
| 1700            | 40              | 65                          | 43x             | 92                          | 141   | 281 **                |
| 1700            | 40              | 80                          | 43x             | 113                         | 173   | 346 **                |
| 1800            | 6               | 35                          | 300x            | 7                           | 11  | 21                    |
| 1800            | 6               | 50                          | 300x            | 10                          | 15  | 31                    |
| 1800            | 6               | 65                          | 300x            | 13                          | 20  | 40                    |
| 1800            | 6               | 80                          | 300x            | 16                          | 25  | 49                    |
| 1800            | 12              | 35                          | 150x            | 14                          | 21  | 43                    |
| 1800            | 12              | 50                          | 150x            | 20                          | 31  | 61                    |
| 1800            | 12              | 65                          | 150x            | 26                          | 40  | 80                    |
| 1800            | 12              | 80                          | 150x            | 32                          | 49  | 98                    |
| 1800            | 18              | 35                          | 100x            | 21                          | 32  | 64                    |
| 1800            | 18              | 50                          | 100x            | 30                          | 46  | 92                    |
| 1800            | 18              | 65                          | 100x            | 39                          | 60  | 120                   |
| 1800            | 18              | 80                          | 100x            | 48                          | 74  | 147                   |
| 1800            | 25              | 35                          | 72x             | 29                          | 45  | 89                    |
| 1800            | 25              | 50                          | 72x             | 42                          | 64  | 128                   |
| 1800            | 25              | 65                          | 72x             | 54                          | 83  | 166                   |
| 1800            | 25              | 80                          | 72x             | 67                          | 102   | 204                   |
| 1800            | 32              | 35                          | 56x             | 37                          | 57  | 115                   |
| 1800            | 32              | 50                          | 56x             | 53                          | 82  | 164                   |
| 1800            | 32              | 65                          | 56x             | 69                          | 106   | 213 **                |
| 1800            | 32              | 80                          | 56x             | 85                          | 131   | 262 **                |
| 1800            | 40              | 35                          | 45x             | 47                          | 72  | 143                   |
| 1800            | 40              | 50                          | 45x             | 67                          | 102   | 204                   |
| 1800            | 40              | 65                          | 45x             | 87                          | 133   | 266 **                |
| 1800            | 40              | 80                          | 45x             | 107                         | 164   | 327 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 1900            | 6               | 35                          | 317x            | 7                           | 10  | 20                    |
| 1900            | 6               | 50                          | 317x            | 9                           | 15  | 29                    |
| 1900            | 6               | 65                          | 317x            | 12                          | 19  | 38                    |
| 1900            | 6               | 80                          | 317x            | 15                          | 23  | 46                    |
| 1900            | 12              | 35                          | 158x            | 13                          | 20  | 41                    |
| 1900            | 12              | 50                          | 158x            | 19                          | 29  | 58                    |
| 1900            | 12              | 65                          | 158x            | 25                          | 38  | 76                    |
| 1900            | 12              | 80                          | 158x            | 30                          | 46  | 93                    |
| 1900            | 18              | 35                          | 106x            | 20                          | 31  | 61                    |
| 1900            | 18              | 50                          | 106x            | 28                          | 44  | 87                    |
| 1900            | 18              | 65                          | 106x            | 37                          | 57  | 113                   |
| 1900            | 18              | 80                          | 106x            | 45                          | 70  | 139                   |
| 1900            | 25              | 35                          | 76x             | 28                          | 42  | 85                    |
| 1900            | 25              | 50                          | 76x             | 39                          | 61  | 121                   |
| 1900            | 25              | 65                          | 76x             | 51                          | 79  | 157                   |
| 1900            | 25              | 80                          | 76x             | 63                          | 97  | 194                   |
| 1900            | 32              | 35                          | 59x             | 35                          | 54  | 108                   |
| 1900            | 32              | 50                          | 59x             | 51                          | 77  | 155                   |
| 1900            | 32              | 65                          | 59x             | 66                          | 101   | 201                   |
| 1900            | 32              | 80                          | 59x             | 81                          | 124   | 248 **                |
| 1900            | 40              | 35                          | 48x             | 44                          | 68  | 136                   |
| 1900            | 40              | 50                          | 48x             | 63                          | 97  | 194                   |
| 1900            | 40              | 65                          | 48x             | 82                          | 126   | 252 **                |
| 1900            | 40              | 80                          | 48x             | 101                         | 155   | 310 **                |
| 2000            | 6               | 35                          | 333x            | 6                           | 10  | 19                    |
| 2000            | 6               | 50                          | 333x            | 9                           | 14  | 28                    |
| 2000            | 6               | 65                          | 333x            | 12                          | 18  | 36                    |
| 2000            | 6               | 80                          | 333x            | 14                          | 22  | 44                    |
| 2000            | 12              | 35                          | 167x            | 13                          | 19  | 39                    |
| 2000            | 12              | 50                          | 167x            | 18                          | 28  | 55                    |
| 2000            | 12              | 65                          | 167x            | 23                          | 36  | 72                    |
| 2000            | 12              | 80                          | 167x            | 29                          | 44  | 88                    |
| 2000            | 18              | 35                          | 111x            | 19                          | 29  | 58                    |
| 2000            | 18              | 50                          | 111x            | 27                          | 41  | 83                    |
| 2000            | 18              | 65                          | 111x            | 35                          | 54  | 108                   |
| 2000            | 18              | 80                          | 111x            | 43                          | 66  | 133                   |
| 2000            | 25              | 35                          | 80x             | 26                          | 40  | 81                    |
| 2000            | 25              | 50                          | 80x             | 38                          | 58  | 115                   |
| 2000            | 25              | 65                          | 80x             | 49                          | 75  | 150                   |
| 2000            | 25              | 80                          | 80x             | 60                          | 92  | 184                   |
| 2000            | 32              | 35                          | 63x             | 34                          | 52  | 103                   |
| 2000            | 32              | 50                          | 63x             | 48                          | 74  | 147                   |
| 2000            | 32              | 65                          | 63x             | 62                          | 96  | 191                   |
| 2000            | 32              | 80                          | 63x             | 77                          | 118   | 236 **                |
| 2000            | 40              | 35                          | 50x             | 42                          | 64  | 129                   |
| 2000            | 40              | 50                          | 50x             | 60                          | 92  | 184                   |
| 2000            | 40              | 65                          | 50x             | 78                          | 120   | 239 **                |
| 2000            | 40              | 80                          | 50x             | 96                          | 147   | 294 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 2100            | 6               | 35                          | 350x            | 6                           | 9   | 18                    |
| 2100            | 6               | 50                          | 350x            | 9                           | 13  | 26                    |
| 2100            | 6               | 65                          | 350x            | 11                          | 17  | 34                    |
| 2100            | 6               | 80                          | 350x            | 14                          | 21  | 42                    |
| 2100            | 12              | 35                          | 175x            | 12                          | 18  | 37                    |
| 2100            | 12              | 50                          | 175x            | 17                          | 26  | 53                    |
| 2100            | 12              | 65                          | 175x            | 22                          | 34  | 68                    |
| 2100            | 12              | 80                          | 175x            | 27                          | 42  | 84                    |
| 2100            | 18              | 35                          | 117x            | 18                          | 28  | 55                    |
| 2100            | 18              | 50                          | 117x            | 26                          | 39  | 79                    |
| 2100            | 18              | 65                          | 117x            | 33                          | 51  | 103                   |
| 2100            | 18              | 80                          | 117x            | 41                          | 63  | 126                   |
| 2100            | 25              | 35                          | 84x             | 25                          | 38  | 77                    |
| 2100            | 25              | 50                          | 84x             | 36                          | 55  | 110                   |
| 2100            | 25              | 65                          | 84x             | 46                          | 71  | 142                   |
| 2100            | 25              | 80                          | 84x             | 57                          | 88  | 175                   |
| 2100            | 32              | 35                          | 66x             | 32                          | 49  | 98                    |
| 2100            | 32              | 50                          | 66x             | 46                          | 70  | 140                   |
| 2100            | 32              | 65                          | 66x             | 59                          | 91  | 182                   |
| 2100            | 32              | 80                          | 66x             | 73                          | 112   | 224 **                |
| 2100            | 40              | 35                          | 53x             | 40                          | 61  | 123                   |
| 2100            | 40              | 50                          | 53x             | 57                          | 88  | 175                   |
| 2100            | 40              | 65                          | 53x             | 74                          | 114   | 228 **                |
| 2100            | 40              | 80                          | 53x             | 91                          | 140   | 280 **                |
| 2200            | 6               | 35                          | 367x            | 6                           | 9   | 18                    |
| 2200            | 6               | 50                          | 367x            | 8                           | 13  | 25                    |
| 2200            | 6               | 65                          | 367x            | 11                          | 16  | 33                    |
| 2200            | 6               | 80                          | 367x            | 13                          | 20  | 40                    |
| 2200            | 12              | 35                          | 183x            | 11                          | 18  | 35                    |
| 2200            | 12              | 50                          | 183x            | 16                          | 25  | 50                    |
| 2200            | 12              | 65                          | 183x            | 21                          | 33  | 65                    |
| 2200            | 12              | 80                          | 183x            | 26                          | 40  | 80                    |
| 2200            | 18              | 35                          | 122x            | 17                          | 26  | 53                    |
| 2200            | 18              | 50                          | 122x            | 25                          | 38  | 75                    |
| 2200            | 18              | 65                          | 122x            | 32                          | 49  | 98                    |
| 2200            | 18              | 80                          | 122x            | 39                          | 60  | 120                   |
| 2200            | 25              | 35                          | 88x             | 24                          | 37  | 73                    |
| 2200            | 25              | 50                          | 88x             | 34                          | 52  | 105                   |
| 2200            | 25              | 65                          | 88x             | 44                          | 68  | 136                   |
| 2200            | 25              | 80                          | 88x             | 55                          | 84  | 167                   |
| 2200            | 32              | 35                          | 69x             | 31                          | 47  | 94                    |
| 2200            | 32              | 50                          | 69x             | 44                          | 67  | 134                   |
| 2200            | 32              | 65                          | 69x             | 57                          | 87  | 174                   |
| 2200            | 32              | 80                          | 69x             | 70                          | 107   | 214 **                |
| 2200            | 40              | 35                          | 55x             | 38                          | 59  | 117                   |
| 2200            | 40              | 50                          | 55x             | 55                          | 84  | 167                   |
| 2200            | 40              | 65                          | 55x             | 71                          | 109   | 218 **                |
| 2200            | 40              | 80                          | 55x             | 87                          | 134   | 268 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 2300            | 6               | 35                          | 383x            | 5                           | 8   | 17                    |
| 2300            | 6               | 50                          | 383x            | 8                           | 12  | 24                    |
| 2300            | 6               | 65                          | 383x            | 10                          | 16  | 31                    |
| 2300            | 6               | 80                          | 383x            | 13                          | 19  | 38                    |
| 2300            | 12              | 35                          | 192x            | 11                          | 17  | 34                    |
| 2300            | 12              | 50                          | 192x            | 16                          | 24  | 48                    |
| 2300            | 12              | 65                          | 192x            | 20                          | 31  | 62                    |
| 2300            | 12              | 80                          | 192x            | 25                          | 38  | 77                    |
| 2300            | 18              | 35                          | 128x            | 16                          | 25  | 50                    |
| 2300            | 18              | 50                          | 128x            | 23                          | 36  | 72                    |
| 2300            | 18              | 65                          | 128x            | 31                          | 47  | 94                    |
| 2300            | 18              | 80                          | 128x            | 38                          | 58  | 115                   |
| 2300            | 25              | 35                          | 92x             | 23                          | 35  | 70                    |
| 2300            | 25              | 50                          | 92x             | 33                          | 50  | 100                   |
| 2300            | 25              | 65                          | 92x             | 42                          | 65  | 130                   |
| 2300            | 25              | 80                          | 92x             | 52                          | 80  | 160                   |
| 2300            | 32              | 35                          | 72x             | 29                          | 45  | 90                    |
| 2300            | 32              | 50                          | 72x             | 42                          | 64  | 128                   |
| 2300            | 32              | 65                          | 72x             | 54                          | 83  | 166                   |
| 2300            | 32              | 80                          | 72x             | 67                          | 102   | 205                   |
| 2300            | 40              | 35                          | 58x             | 37                          | 56  | 112                   |
| 2300            | 40              | 50                          | 58x             | 52                          | 80  | 160                   |
| 2300            | 40              | 65                          | 58x             | 68                          | 104   | 208                   |
| 2300            | 40              | 80                          | 58x             | 83                          | 128   | 256 **                |
| 2400            | 6               | 35                          | 400x            | 5                           | 8   | 16                    |
| 2400            | 6               | 50                          | 400x            | 8                           | 12  | 23                    |
| 2400            | 6               | 65                          | 400x            | 10                          | 15  | 30                    |
| 2400            | 6               | 80                          | 400x            | 12                          | 18  | 37                    |
| 2400            | 12              | 35                          | 200x            | 11                          | 16  | 32                    |
| 2400            | 12              | 50                          | 200x            | 15                          | 23  | 46                    |
| 2400            | 12              | 65                          | 200x            | 20                          | 30  | 60                    |
| 2400            | 12              | 80                          | 200x            | 24                          | 37  | 74                    |
| 2400            | 18              | 35                          | 133x            | 16                          | 24  | 48                    |
| 2400            | 18              | 50                          | 133x            | 23                          | 35  | 69                    |
| 2400            | 18              | 65                          | 133x            | 29                          | 45  | 90                    |
| 2400            | 18              | 80                          | 133x            | 36                          | 55  | 110                   |
| 2400            | 25              | 35                          | 96x             | 22                          | 34  | 67                    |
| 2400            | 25              | 50                          | 96x             | 31                          | 48  | 96                    |
| 2400            | 25              | 65                          | 96x             | 41                          | 62  | 125                   |
| 2400            | 25              | 80                          | 96x             | 50                          | 77  | 153                   |
| 2400            | 32              | 35                          | 75x             | 28                          | 43  | 86                    |
| 2400            | 32              | 50                          | 75x             | 40                          | 61  | 123                   |
| 2400            | 32              | 65                          | 75x             | 52                          | 80  | 160                   |
| 2400            | 32              | 80                          | 75x             | 64                          | 98  | 196                   |
| 2400            | 40              | 35                          | 60x             | 35                          | 54  | 107                   |
| 2400            | 40              | 50                          | 60x             | 50                          | 77  | 153                   |
| 2400            | 40              | 65                          | 60x             | 65                          | 100   | 199                   |
| 2400            | 40              | 80                          | 60x             | 80                          | 123   | 245 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 2500            | 6               | 35                          | 417x            | 5                           | 8   | 15                    |
| 2500            | 6               | 50                          | 417x            | 7                           | 11  | 22                    |
| 2500            | 6               | 65                          | 417x            | 9                           | 14  | 29                    |
| 2500            | 6               | 80                          | 417x            | 12                          | 18  | 35                    |
| 2500            | 12              | 35                          | 208x            | 10                          | 15  | 31                    |
| 2500            | 12              | 50                          | 208x            | 14                          | 22  | 44                    |
| 2500            | 12              | 65                          | 208x            | 19                          | 29  | 57                    |
| 2500            | 12              | 80                          | 208x            | 23                          | 35  | 71                    |
| 2500            | 18              | 35                          | 139x            | 15                          | 23  | 46                    |
| 2500            | 18              | 50                          | 139x            | 22                          | 33  | 66                    |
| 2500            | 18              | 65                          | 139x            | 28                          | 43  | 86                    |
| 2500            | 18              | 80                          | 139x            | 35                          | 53  | 106                   |
| 2500            | 25              | 35                          | 100x            | 21                          | 32  | 64                    |
| 2500            | 25              | 50                          | 100x            | 30                          | 46  | 92                    |
| 2500            | 25              | 65                          | 100x            | 39                          | 60  | 120                   |
| 2500            | 25              | 80                          | 100x            | 48                          | 74  | 147                   |
| 2500            | 32              | 35                          | 78x             | 27                          | 41  | 82                    |
| 2500            | 32              | 50                          | 78x             | 38                          | 59  | 118                   |
| 2500            | 32              | 65                          | 78x             | 50                          | 77  | 153                   |
| 2500            | 32              | 80                          | 78x             | 61                          | 94  | 188                   |
| 2500            | 40              | 35                          | 63x             | 34                          | 52  | 103                   |
| 2500            | 40              | 50                          | 63x             | 48                          | 74  | 147                   |
| 2500            | 40              | 65                          | 63x             | 62                          | 96  | 191                   |
| 2500            | 40              | 80                          | 63x             | 77                          | 118   | 236 **                |
| 2600            | 6               | 35                          | 433x            | 5                           | 7   | 15                    |
| 2600            | 6               | 50                          | 433x            | 7                           | 11  | 21                    |
| 2600            | 6               | 65                          | 433x            | 9                           | 14  | 28                    |
| 2600            | 6               | 80                          | 433x            | 11                          | 17  | 34                    |
| 2600            | 12              | 35                          | 217x            | 10                          | 15  | 30                    |
| 2600            | 12              | 50                          | 217x            | 14                          | 21  | 42                    |
| 2600            | 12              | 65                          | 217x            | 18                          | 28  | 55                    |
| 2600            | 12              | 80                          | 217x            | 22                          | 34  | 68                    |
| 2600            | 18              | 35                          | 144x            | 15                          | 22  | 45                    |
| 2600            | 18              | 50                          | 144x            | 21                          | 32  | 64                    |
| 2600            | 18              | 65                          | 144x            | 27                          | 41  | 83                    |
| 2600            | 18              | 80                          | 144x            | 33                          | 51  | 102                   |
| 2600            | 25              | 35                          | 104x            | 20                          | 31  | 62                    |
| 2600            | 25              | 50                          | 104x            | 29                          | 44  | 88                    |
| 2600            | 25              | 65                          | 104x            | 38                          | 58  | 115                   |
| 2600            | 25              | 80                          | 104x            | 46                          | 71  | 142                   |
| 2600            | 32              | 35                          | 81x             | 26                          | 40  | 79                    |
| 2600            | 32              | 50                          | 81x             | 37                          | 57  | 113                   |
| 2600            | 32              | 65                          | 81x             | 48                          | 74  | 147                   |
| 2600            | 32              | 80                          | 81x             | 59                          | 91  | 181                   |
| 2600            | 40              | 35                          | 65x             | 32                          | 50  | 99                    |
| 2600            | 40              | 50                          | 65x             | 46                          | 71  | 142                   |
| 2600            | 40              | 65                          | 65x             | 60                          | 92  | 184                   |
| 2600            | 40              | 80                          | 65x             | 74                          | 113   | 227 **                |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 2700            | 6               | 35                          | 450x            | 5                           | 7   | 14                    |
| 2700            | 6               | 50                          | 450x            | 7                           | 10  | 20                    |
| 2700            | 6               | 65                          | 450x            | 9                           | 13  | 27                    |
| 2700            | 6               | 80                          | 450x            | 11                          | 16  | 33                    |
| 2700            | 12              | 35                          | 225x            | 9                           | 14  | 29                    |
| 2700            | 12              | 50                          | 225x            | 13                          | 20  | 41                    |
| 2700            | 12              | 65                          | 225x            | 17                          | 27  | 53                    |
| 2700            | 12              | 80                          | 225x            | 21                          | 33  | 65                    |
| 2700            | 18              | 35                          | 150x            | 14                          | 21  | 43                    |
| 2700            | 18              | 50                          | 150x            | 20                          | 31  | 61                    |
| 2700            | 18              | 65                          | 150x            | 26                          | 40  | 80                    |
| 2700            | 18              | 80                          | 150x            | 32                          | 49  | 98                    |
| 2700            | 25              | 35                          | 108x            | 19                          | 30  | 60                    |
| 2700            | 25              | 50                          | 108x            | 28                          | 43  | 85                    |
| 2700            | 25              | 65                          | 108x            | 36                          | 55  | 111                   |
| 2700            | 25              | 80                          | 108x            | 44                          | 68  | 136                   |
| 2700            | 32              | 35                          | 84x             | 25                          | 38  | 76                    |
| 2700            | 32              | 50                          | 84x             | 36                          | 55  | 109                   |
| 2700            | 32              | 65                          | 84x             | 46                          | 71  | 142                   |
| 2700            | 32              | 80                          | 84x             | 57                          | 87  | 175                   |
| 2700            | 40              | 35                          | 68x             | 31                          | 48  | 95                    |
| 2700            | 40              | 50                          | 68x             | 44                          | 68  | 136                   |
| 2700            | 40              | 65                          | 68x             | 58                          | 89  | 177                   |
| 2700            | 40              | 80                          | 68x             | 71                          | 109   | 218 **                |
| 2800            | 6               | 35                          | 467x            | 5                           | 7   | 14                    |
| 2800            | 6               | 50                          | 467x            | 6                           | 10  | 20                    |
| 2800            | 6               | 65                          | 467x            | 8                           | 13  | 26                    |
| 2800            | 6               | 80                          | 467x            | 10                          | 16  | 32                    |
| 2800            | 12              | 35                          | 233x            | 9                           | 14  | 28                    |
| 2800            | 12              | 50                          | 233x            | 13                          | 20  | 39                    |
| 2800            | 12              | 65                          | 233x            | 17                          | 26  | 51                    |
| 2800            | 12              | 80                          | 233x            | 21                          | 32  | 63                    |
| 2800            | 18              | 35                          | 156x            | 14                          | 21  | 41                    |
| 2800            | 18              | 50                          | 156x            | 19                          | 30  | 59                    |
| 2800            | 18              | 65                          | 156x            | 25                          | 38  | 77                    |
| 2800            | 18              | 80                          | 156x            | 31                          | 47  | 95                    |
| 2800            | 25              | 35                          | 112x            | 19                          | 29  | 58                    |
| 2800            | 25              | 50                          | 112x            | 27                          | 41  | 82                    |
| 2800            | 25              | 65                          | 112x            | 35                          | 53  | 107                   |
| 2800            | 25              | 80                          | 112x            | 43                          | 66  | 131                   |
| 2800            | 32              | 35                          | 88x             | 24                          | 37  | 74                    |
| 2800            | 32              | 50                          | 88x             | 34                          | 53  | 105                   |
| 2800            | 32              | 65                          | 88x             | 45                          | 68  | 137                   |
| 2800            | 32              | 80                          | 88x             | 55                          | 84  | 168                   |
| 2800            | 40              | 35                          | 70x             | 30                          | 46  | 92                    |
| 2800            | 40              | 50                          | 70x             | 43                          | 66  | 131                   |
| 2800            | 40              | 65                          | 70x             | 56                          | 85  | 171                   |
| 2800            | 40              | 80                          | 70x             | 69                          | 105   | 210                   |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 2900            | 6               | 35                          | 483x            | 4                           | 7   | 13                    |
| 2900            | 6               | 50                          | 483x            | 6                           | 10  | 19                    |
| 2900            | 6               | 65                          | 483x            | 8                           | 12  | 25                    |
| 2900            | 6               | 80                          | 483x            | 10                          | 15  | 30                    |
| 2900            | 12              | 35                          | 242x            | 9                           | 13  | 27                    |
| 2900            | 12              | 50                          | 242x            | 12                          | 19  | 38                    |
| 2900            | 12              | 65                          | 242x            | 16                          | 25  | 50                    |
| 2900            | 12              | 80                          | 242x            | 20                          | 30  | 61                    |
| 2900            | 18              | 35                          | 161x            | 13                          | 20  | 40                    |
| 2900            | 18              | 50                          | 161x            | 19                          | 29  | 57                    |
| 2900            | 18              | 65                          | 161x            | 24                          | 37  | 74                    |
| 2900            | 18              | 80                          | 161x            | 30                          | 46  | 91                    |
| 2900            | 25              | 35                          | 116x            | 18                          | 28  | 56                    |
| 2900            | 25              | 50                          | 116x            | 26                          | 40  | 79                    |
| 2900            | 25              | 65                          | 116x            | 34                          | 52  | 103                   |
| 2900            | 25              | 80                          | 116x            | 41                          | 63  | 127                   |
| 2900            | 32              | 35                          | 91x             | 23                          | 36  | 71                    |
| 2900            | 32              | 50                          | 91x             | 33                          | 51  | 102                   |
| 2900            | 32              | 65                          | 91x             | 43                          | 66  | 132                   |
| 2900            | 32              | 80                          | 91x             | 53                          | 81  | 162                   |
| 2900            | 40              | 35                          | 73x             | 29                          | 44  | 89                    |
| 2900            | 40              | 50                          | 73x             | 41                          | 63  | 127                   |
| 2900            | 40              | 65                          | 73x             | 54                          | 83  | 165                   |
| 2900            | 40              | 80                          | 73x             | 66                          | 102   | 203                   |
| 3000            | 6               | 35                          | 500x            | 4                           | 6   | 13                    |
| 3000            | 6               | 50                          | 500x            | 6                           | 9   | 18                    |
| 3000            | 6               | 65                          | 500x            | 8                           | 12  | 24                    |
| 3000            | 6               | 80                          | 500x            | 10                          | 15  | 29                    |
| 3000            | 12              | 35                          | 250x            | 8                           | 13  | 26                    |
| 3000            | 12              | 50                          | 250x            | 12                          | 18  | 37                    |
| 3000            | 12              | 65                          | 250x            | 16                          | 24  | 48                    |
| 3000            | 12              | 80                          | 250x            | 19                          | 29  | 59                    |
| 3000            | 18              | 35                          | 167x            | 13                          | 19  | 39                    |
| 3000            | 18              | 50                          | 167x            | 18                          | 28  | 55                    |
| 3000            | 18              | 65                          | 167x            | 23                          | 36  | 72                    |
| 3000            | 18              | 80                          | 167x            | 29                          | 44  | 88                    |
| 3000            | 25              | 35                          | 120x            | 18                          | 27  | 54                    |
| 3000            | 25              | 50                          | 120x            | 25                          | 38  | 77                    |
| 3000            | 25              | 65                          | 120x            | 33                          | 50  | 100                   |
| 3000            | 25              | 80                          | 120x            | 40                          | 61  | 123                   |
| 3000            | 32              | 35                          | 94x             | 22                          | 34  | 69                    |
| 3000            | 32              | 50                          | 94x             | 32                          | 49  | 98                    |
| 3000            | 32              | 65                          | 94x             | 42                          | 64  | 128                   |
| 3000            | 32              | 80                          | 94x             | 51                          | 79  | 157                   |
| 3000            | 40              | 35                          | 75x             | 28                          | 43  | 86                    |
| 3000            | 40              | 50                          | 75x             | 40                          | 61  | 123                   |
| 3000            | 40              | 65                          | 75x             | 52                          | 80  | 160                   |
| 3000            | 40              | 80                          | 75x             | 64                          | 98  | 196                   |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 3100            | 6               | 35                          | 517x            | 4                           | 6   | 12                    |
| 3100            | 6               | 50                          | 517x            | 6                           | 9   | 18                    |
| 3100            | 6               | 65                          | 517x            | 8                           | 12  | 23                    |
| 3100            | 6               | 80                          | 517x            | 9                           | 14  | 28                    |
| 3100            | 12              | 35                          | 258x            | 8                           | 12  | 25                    |
| 3100            | 12              | 50                          | 258x            | 12                          | 18  | 36                    |
| 3100            | 12              | 65                          | 258x            | 15                          | 23  | 46                    |
| 3100            | 12              | 80                          | 258x            | 19                          | 28  | 57                    |
| 3100            | 18              | 35                          | 172x            | 12                          | 19  | 37                    |
| 3100            | 18              | 50                          | 172x            | 17                          | 27  | 53                    |
| 3100            | 18              | 65                          | 172x            | 23                          | 35  | 69                    |
| 3100            | 18              | 80                          | 172x            | 28                          | 43  | 85                    |
| 3100            | 25              | 35                          | 124x            | 17                          | 26  | 52                    |
| 3100            | 25              | 50                          | 124x            | 24                          | 37  | 74                    |
| 3100            | 25              | 65                          | 124x            | 31                          | 48  | 96                    |
| 3100            | 25              | 80                          | 124x            | 39                          | 59  | 119                   |
| 3100            | 32              | 35                          | 97x             | 22                          | 33  | 66                    |
| 3100            | 32              | 50                          | 97x             | 31                          | 47  | 95                    |
| 3100            | 32              | 65                          | 97x             | 40                          | 62  | 123                   |
| 3100            | 32              | 80                          | 97x             | 50                          | 76  | 152                   |
| 3100            | 40              | 35                          | 78x             | 27                          | 42  | 83                    |
| 3100            | 40              | 50                          | 78x             | 39                          | 59  | 119                   |
| 3100            | 40              | 65                          | 78x             | 50                          | 77  | 154                   |
| 3100            | 40              | 80                          | 78x             | 62                          | 95  | 190                   |
| 3200            | 6               | 35                          | 533x            | 4                           | 6   | 12                    |
| 3200            | 6               | 50                          | 533x            | 6                           | 9   | 17                    |
| 3200            | 6               | 65                          | 533x            | 7                           | 11  | 22                    |
| 3200            | 6               | 80                          | 533x            | 9                           | 14  | 28                    |
| 3200            | 12              | 35                          | 267x            | 8                           | 12  | 24                    |
| 3200            | 12              | 50                          | 267x            | 11                          | 17  | 35                    |
| 3200            | 12              | 65                          | 267x            | 15                          | 22  | 45                    |
| 3200            | 12              | 80                          | 267x            | 18                          | 28  | 55                    |
| 3200            | 18              | 35                          | 178x            | 12                          | 18  | 36                    |
| 3200            | 18              | 50                          | 178x            | 17                          | 26  | 52                    |
| 3200            | 18              | 65                          | 178x            | 22                          | 34  | 67                    |
| 3200            | 18              | 80                          | 178x            | 27                          | 41  | 83                    |
| 3200            | 25              | 35                          | 128x            | 16                          | 25  | 50                    |
| 3200            | 25              | 50                          | 128x            | 23                          | 36  | 72                    |
| 3200            | 25              | 65                          | 128x            | 30                          | 47  | 93                    |
| 3200            | 25              | 80                          | 128x            | 38                          | 58  | 115                   |
| 3200            | 32              | 35                          | 100x            | 21                          | 32  | 64                    |
| 3200            | 32              | 50                          | 100x            | 30                          | 46  | 92                    |
| 3200            | 32              | 65                          | 100x            | 39                          | 60  | 120                   |
| 3200            | 32              | 80                          | 100x            | 48                          | 74  | 147                   |
| 3200            | 40              | 35                          | 80x             | 26                          | 40  | 81                    |
| 3200            | 40              | 50                          | 80x             | 38                          | 58  | 115                   |
| 3200            | 40              | 65                          | 80x             | 49                          | 75  | 150                   |
| 3200            | 40              | 80                          | 80x             | 60                          | 92  | 184                   |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 3300            | 6               | 35                          | 550x            | 4                           | 6   | 12                    |
| 3300            | 6               | 50                          | 550x            | 5                           | 8   | 17                    |
| 3300            | 6               | 65                          | 550x            | 7                           | 11  | 22                    |
| 3300            | 6               | 80                          | 550x            | 9                           | 13  | 27                    |
| 3300            | 12              | 35                          | 275x            | 8                           | 12  | 23                    |
| 3300            | 12              | 50                          | 275x            | 11                          | 17  | 33                    |
| 3300            | 12              | 65                          | 275x            | 14                          | 22  | 44                    |
| 3300            | 12              | 80                          | 275x            | 17                          | 27  | 54                    |
| 3300            | 18              | 35                          | 183x            | 11                          | 18  | 35                    |
| 3300            | 18              | 50                          | 183x            | 16                          | 25  | 50                    |
| 3300            | 18              | 65                          | 183x            | 21                          | 33  | 65                    |
| 3300            | 18              | 80                          | 183x            | 26                          | 40  | 80                    |
| 3300            | 25              | 35                          | 132x            | 16                          | 24  | 49                    |
| 3300            | 25              | 50                          | 132x            | 23                          | 35  | 70                    |
| 3300            | 25              | 65                          | 132x            | 30                          | 45  | 91                    |
| 3300            | 25              | 80                          | 132x            | 36                          | 56  | 112                   |
| 3300            | 32              | 35                          | 103x            | 20                          | 31  | 62                    |
| 3300            | 32              | 50                          | 103x            | 29                          | 45  | 89                    |
| 3300            | 32              | 65                          | 103x            | 38                          | 58  | 116                   |
| 3300            | 32              | 80                          | 103x            | 47                          | 71  | 143                   |
| 3300            | 40              | 35                          | 83x             | 25                          | 39  | 78                    |
| 3300            | 40              | 50                          | 83x             | 36                          | 56  | 112                   |
| 3300            | 40              | 65                          | 83x             | 47                          | 73  | 145                   |
| 3300            | 40              | 80                          | 83x             | 58                          | 89  | 178                   |
| 3400            | 6               | 35                          | 567x            | 4                           | 6   | 11                    |
| 3400            | 6               | 50                          | 567x            | 5                           | 8   | 16                    |
| 3400            | 6               | 65                          | 567x            | 7                           | 11  | 21                    |
| 3400            | 6               | 80                          | 567x            | 8                           | 13  | 26                    |
| 3400            | 12              | 35                          | 283x            | 7                           | 11  | 23                    |
| 3400            | 12              | 50                          | 283x            | 11                          | 16  | 32                    |
| 3400            | 12              | 65                          | 283x            | 14                          | 21  | 42                    |
| 3400            | 12              | 80                          | 283x            | 17                          | 26  | 52                    |
| 3400            | 18              | 35                          | 189x            | 11                          | 17  | 34                    |
| 3400            | 18              | 50                          | 189x            | 16                          | 24  | 49                    |
| 3400            | 18              | 65                          | 189x            | 21                          | 32  | 63                    |
| 3400            | 18              | 80                          | 189x            | 25                          | 39  | 78                    |
| 3400            | 25              | 35                          | 136x            | 15                          | 24  | 47                    |
| 3400            | 25              | 50                          | 136x            | 22                          | 34  | 68                    |
| 3400            | 25              | 65                          | 136x            | 29                          | 44  | 88                    |
| 3400            | 25              | 80                          | 136x            | 35                          | 54  | 108                   |
| 3400            | 32              | 35                          | 106x            | 20                          | 30  | 61                    |
| 3400            | 32              | 50                          | 106x            | 28                          | 43  | 87                    |
| 3400            | 32              | 65                          | 106x            | 37                          | 56  | 113                   |
| 3400            | 32              | 80                          | 106x            | 45                          | 69  | 139                   |
| 3400            | 40              | 35                          | 85x             | 25                          | 38  | 76                    |
| 3400            | 40              | 50                          | 85x             | 35                          | 54  | 108                   |
| 3400            | 40              | 65                          | 85x             | 46                          | 70  | 141                   |
| 3400            | 40              | 80                          | 85x             | 56                          | 87  | 173                   |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 3500            | 6               | 35                          | 583x            | 4                           | 6   | 11                    |
| 3500            | 6               | 50                          | 583x            | 5                           | 8   | 16                    |
| 3500            | 6               | 65                          | 583x            | 7                           | 10  | 21                    |
| 3500            | 6               | 80                          | 583x            | 8                           | 13  | 25                    |
| 3500            | 12              | 35                          | 292x            | 7                           | 11  | 22                    |
| 3500            | 12              | 50                          | 292x            | 10                          | 16  | 32                    |
| 3500            | 12              | 65                          | 292x            | 13                          | 21  | 41                    |
| 3500            | 12              | 80                          | 292x            | 16                          | 25  | 50                    |
| 3500            | 18              | 35                          | 194x            | 11                          | 17  | 33                    |
| 3500            | 18              | 50                          | 194x            | 15                          | 24  | 47                    |
| 3500            | 18              | 65                          | 194x            | 20                          | 31  | 62                    |
| 3500            | 18              | 80                          | 194x            | 25                          | 38  | 76                    |
| 3500            | 25              | 35                          | 140x            | 15                          | 23  | 46                    |
| 3500            | 25              | 50                          | 140x            | 21                          | 33  | 66                    |
| 3500            | 25              | 65                          | 140x            | 28                          | 43  | 85                    |
| 3500            | 25              | 80                          | 140x            | 34                          | 53  | 105                   |
| 3500            | 32              | 35                          | 109x            | 19                          | 29  | 59                    |
| 3500            | 32              | 50                          | 109x            | 27                          | 42  | 84                    |
| 3500            | 32              | 65                          | 109x            | 36                          | 55  | 109                   |
| 3500            | 32              | 80                          | 109x            | 44                          | 67  | 135                   |
| 3500            | 40              | 35                          | 88x             | 24                          | 37  | 74                    |
| 3500            | 40              | 50                          | 88x             | 34                          | 53  | 105                   |
| 3500            | 40              | 65                          | 88x             | 45                          | 68  | 137                   |
| 3500            | 40              | 80                          | 88x             | 55                          | 84  | 168                   |
| 3600            | 6               | 35                          | 600x            | 4                           | 5   | 11                    |
| 3600            | 6               | 50                          | 600x            | 5                           | 8   | 15                    |
| 3600            | 6               | 65                          | 600x            | 7                           | 10  | 20                    |
| 3600            | 6               | 80                          | 600x            | 8                           | 12  | 25                    |
| 3600            | 12              | 35                          | 300x            | 7                           | 11  | 21                    |
| 3600            | 12              | 50                          | 300x            | 10                          | 15  | 31                    |
| 3600            | 12              | 65                          | 300x            | 13                          | 20  | 40                    |
| 3600            | 12              | 80                          | 300x            | 16                          | 25  | 49                    |
| 3600            | 18              | 35                          | 200x            | 11                          | 16  | 32                    |
| 3600            | 18              | 50                          | 200x            | 15                          | 23  | 46                    |
| 3600            | 18              | 65                          | 200x            | 20                          | 30  | 60                    |
| 3600            | 18              | 80                          | 200x            | 24                          | 37  | 74                    |
| 3600            | 25              | 35                          | 144x            | 15                          | 22  | 45                    |
| 3600            | 25              | 50                          | 144x            | 21                          | 32  | 64                    |
| 3600            | 25              | 65                          | 144x            | 27                          | 42  | 83                    |
| 3600            | 25              | 80                          | 144x            | 33                          | 51  | 102                   |
| 3600            | 32              | 35                          | 113x            | 19                          | 29  | 57                    |
| 3600            | 32              | 50                          | 113x            | 27                          | 41  | 82                    |
| 3600            | 32              | 65                          | 113x            | 35                          | 53  | 106                   |
| 3600            | 32              | 80                          | 113x            | 43                          | 65  | 131                   |
| 3600            | 40              | 35                          | 90x             | 23                          | 36  | 72                    |
| 3600            | 40              | 50                          | 90x             | 33                          | 51  | 102                   |
| 3600            | 40              | 65                          | 90x             | 43                          | 66  | 133                   |
| 3600            | 40              | 80                          | 90x             | 53                          | 82  | 164                   |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 3700            | 6               | 35                          | 617x            | 3                           | 5   | 10                    |
| 3700            | 6               | 50                          | 617x            | 5                           | 7   | 15                    |
| 3700            | 6               | 65                          | 617x            | 6                           | 10  | 19                    |
| 3700            | 6               | 80                          | 617x            | 8                           | 12  | 24                    |
| 3700            | 12              | 35                          | 308x            | 7                           | 10  | 21                    |
| 3700            | 12              | 50                          | 308x            | 10                          | 15  | 30                    |
| 3700            | 12              | 65                          | 308x            | 13                          | 19  | 39                    |
| 3700            | 12              | 80                          | 308x            | 16                          | 24  | 48                    |
| 3700            | 18              | 35                          | 206x            | 10                          | 16  | 31                    |
| 3700            | 18              | 50                          | 206x            | 15                          | 22  | 45                    |
| 3700            | 18              | 65                          | 206x            | 19                          | 29  | 58                    |
| 3700            | 18              | 80                          | 206x            | 23                          | 36  | 72                    |
| 3700            | 25              | 35                          | 148x            | 14                          | 22  | 44                    |
| 3700            | 25              | 50                          | 148x            | 20                          | 31  | 62                    |
| 3700            | 25              | 65                          | 148x            | 26                          | 40  | 81                    |
| 3700            | 25              | 80                          | 148x            | 32                          | 50  | 99                    |
| 3700            | 32              | 35                          | 116x            | 18                          | 28  | 56                    |
| 3700            | 32              | 50                          | 116x            | 26                          | 40  | 80                    |
| 3700            | 32              | 65                          | 116x            | 34                          | 52  | 103                   |
| 3700            | 32              | 80                          | 116x            | 42                          | 64  | 127                   |
| 3700            | 40              | 35                          | 93x             | 23                          | 35  | 70                    |
| 3700            | 40              | 50                          | 93x             | 32                          | 50  | 99                    |
| 3700            | 40              | 65                          | 93x             | 42                          | 65  | 129                   |
| 3700            | 40              | 80                          | 93x             | 52                          | 80  | 159                   |
| 3800            | 6               | 35                          | 633x            | 3                           | 5   | 10                    |
| 3800            | 6               | 50                          | 633x            | 5                           | 7   | 15                    |
| 3800            | 6               | 65                          | 633x            | 6                           | 9   | 19                    |
| 3800            | 6               | 80                          | 633x            | 8                           | 12  | 23                    |
| 3800            | 12              | 35                          | 317x            | 7                           | 10  | 20                    |
| 3800            | 12              | 50                          | 317x            | 9                           | 15  | 29                    |
| 3800            | 12              | 65                          | 317x            | 12                          | 19  | 38                    |
| 3800            | 12              | 80                          | 317x            | 15                          | 23  | 46                    |
| 3800            | 18              | 35                          | 211x            | 10                          | 15  | 31                    |
| 3800            | 18              | 50                          | 211x            | 14                          | 22  | 44                    |
| 3800            | 18              | 65                          | 211x            | 18                          | 28  | 57                    |
| 3800            | 18              | 80                          | 211x            | 23                          | 35  | 70                    |
| 3800            | 25              | 35                          | 152x            | 14                          | 21  | 42                    |
| 3800            | 25              | 50                          | 152x            | 20                          | 30  | 61                    |
| 3800            | 25              | 65                          | 152x            | 26                          | 39  | 79                    |
| 3800            | 25              | 80                          | 152x            | 32                          | 48  | 97                    |
| 3800            | 32              | 35                          | 119x            | 18                          | 27  | 54                    |
| 3800            | 32              | 50                          | 119x            | 25                          | 39  | 77                    |
| 3800            | 32              | 65                          | 119x            | 33                          | 50  | 101                   |
| 3800            | 32              | 80                          | 119x            | 40                          | 62  | 124                   |
| 3800            | 40              | 35                          | 95x             | 22                          | 34  | 68                    |
| 3800            | 40              | 50                          | 95x             | 32                          | 48  | 97                    |
| 3800            | 40              | 65                          | 95x             | 41                          | 63  | 126                   |
| 3800            | 40              | 80                          | 95x             | 51                          | 77  | 155                   |

EYEPIECE FIELD OF VIEW OVERLAYS

| Scope<br>FL(mm) | EyePc<br>FL(mm) | Design<br>EyePc<br>FOV(deg) | Appar<br>Magnif | Actual<br>EyePc<br>FOV(min) | Circle Diameters for<br>Overlay Transparency<br>===== |                       |
|-----------------|-----------------|-----------------------------|-----------------|-----------------------------|---|-----------------------|
|                 |                 |                             |                 |                             | 20x Images<br>Dia(mm)                                 | 40x Images<br>Dia(mm) |
| 3900            | 6               | 35                          | 650x            | 3                           | 5   | 10                    |
| 3900            | 6               | 50                          | 650x            | 5                           | 7   | 14                    |
| 3900            | 6               | 65                          | 650x            | 6                           | 9   | 18                    |
| 3900            | 6               | 80                          | 650x            | 7                           | 11  | 23                    |
| 3900            | 12              | 35                          | 325x            | 6                           | 10  | 20                    |
| 3900            | 12              | 50                          | 325x            | 9                           | 14  | 28                    |
| 3900            | 12              | 65                          | 325x            | 12                          | 18  | 37                    |
| 3900            | 12              | 80                          | 325x            | 15                          | 23  | 45                    |
| 3900            | 18              | 35                          | 217x            | 10                          | 15  | 30                    |
| 3900            | 18              | 50                          | 217x            | 14                          | 21  | 42                    |
| 3900            | 18              | 65                          | 217x            | 18                          | 28  | 55                    |
| 3900            | 18              | 80                          | 217x            | 22                          | 34  | 68                    |
| 3900            | 25              | 35                          | 156x            | 13                          | 21  | 41                    |
| 3900            | 25              | 50                          | 156x            | 19                          | 29  | 59                    |
| 3900            | 25              | 65                          | 156x            | 25                          | 38  | 77                    |
| 3900            | 25              | 80                          | 156x            | 31                          | 47  | 94                    |
| 3900            | 32              | 35                          | 122x            | 17                          | 26  | 53                    |
| 3900            | 32              | 50                          | 122x            | 25                          | 38  | 76                    |
| 3900            | 32              | 65                          | 122x            | 32                          | 49  | 98                    |
| 3900            | 32              | 80                          | 122x            | 39                          | 60  | 121                   |
| 3900            | 40              | 35                          | 98x             | 22                          | 33  | 66                    |
| 3900            | 40              | 50                          | 98x             | 31                          | 47  | 94                    |
| 3900            | 40              | 65                          | 98x             | 40                          | 61  | 123                   |
| 3900            | 40              | 80                          | 98x             | 49                          | 76  | 151                   |
| 4000            | 6               | 35                          | 667x            | 3                           | 5   | 10                    |
| 4000            | 6               | 50                          | 667x            | 5                           | 7   | 14                    |
| 4000            | 6               | 65                          | 667x            | 6                           | 9   | 18                    |
| 4000            | 6               | 80                          | 667x            | 7                           | 11  | 22                    |
| 4000            | 12              | 35                          | 333x            | 6                           | 10  | 19                    |
| 4000            | 12              | 50                          | 333x            | 9                           | 14  | 28                    |
| 4000            | 12              | 65                          | 333x            | 12                          | 18  | 36                    |
| 4000            | 12              | 80                          | 333x            | 14                          | 22  | 44                    |
| 4000            | 18              | 35                          | 222x            | 9                           | 14  | 29                    |
| 4000            | 18              | 50                          | 222x            | 14                          | 21  | 41                    |
| 4000            | 18              | 65                          | 222x            | 18                          | 27  | 54                    |
| 4000            | 18              | 80                          | 222x            | 22                          | 33  | 66                    |
| 4000            | 25              | 35                          | 160x            | 13                          | 20  | 40                    |
| 4000            | 25              | 50                          | 160x            | 19                          | 29  | 58                    |
| 4000            | 25              | 65                          | 160x            | 24                          | 37  | 75                    |
| 4000            | 25              | 80                          | 160x            | 30                          | 46  | 92                    |
| 4000            | 32              | 35                          | 125x            | 17                          | 26  | 52                    |
| 4000            | 32              | 50                          | 125x            | 24                          | 37  | 74                    |
| 4000            | 32              | 65                          | 125x            | 31                          | 48  | 96                    |
| 4000            | 32              | 80                          | 125x            | 38                          | 59  | 118                   |
| 4000            | 40              | 35                          | 100x            | 21                          | 32  | 64                    |
| 4000            | 40              | 50                          | 100x            | 30                          | 46  | 92                    |
| 4000            | 40              | 65                          | 100x            | 39                          | 60  | 120                   |
| 4000            | 40              | 80                          | 100x            | 48                          | 74  | 147                   |