

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P596012

Luminaire Tested: **PMM-SA4A-AMB-U-SL2-HSS**

Issue Date: 4/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P596012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-400-18)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 4/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4A-AMB-U-SL2-HSS  
Description: POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH  
AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 1549K CCT, -21.5 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2322 lumens  
Efficiency: N/A  
Efficacy: 29.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

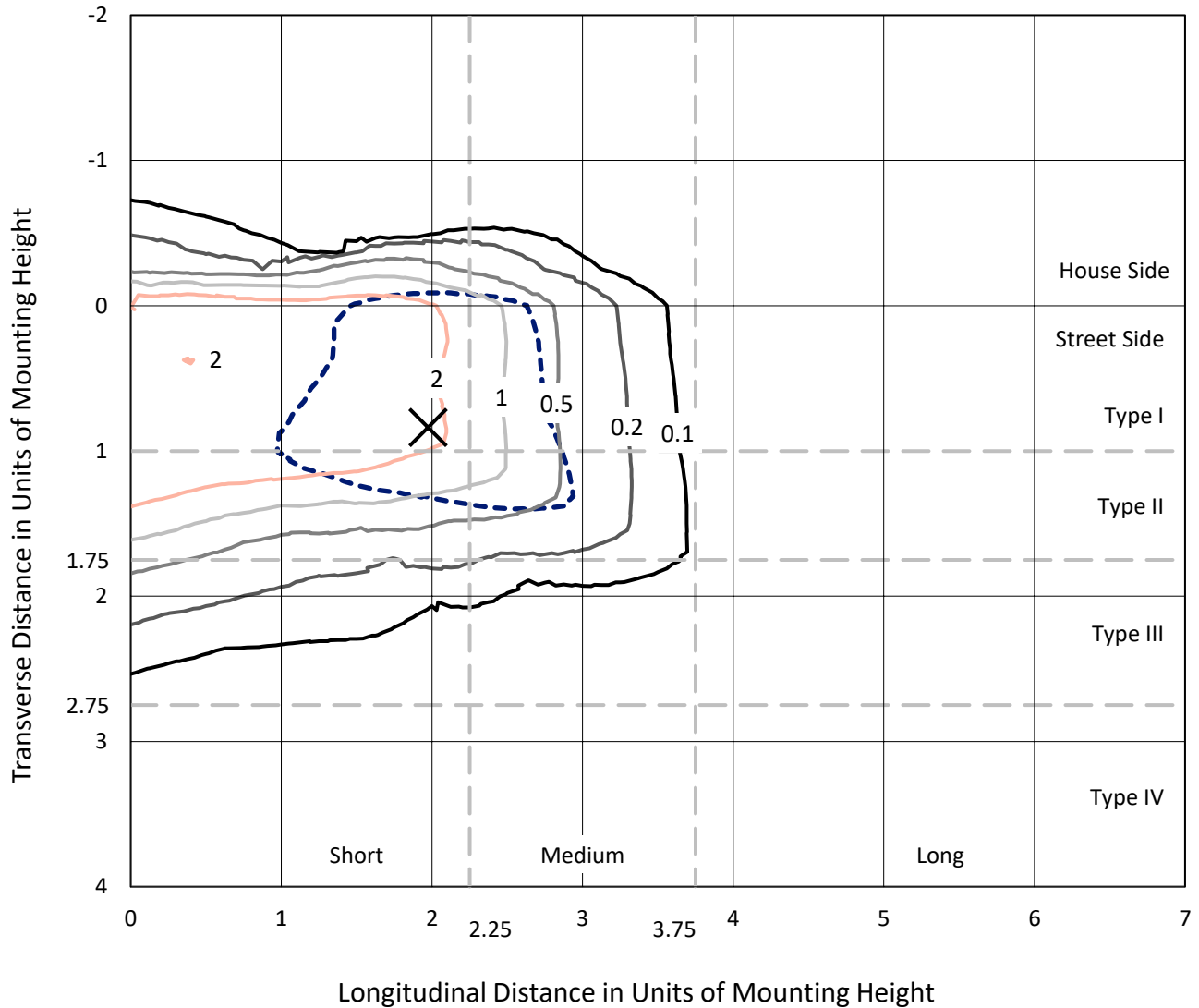
Input Watts (W): 79  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

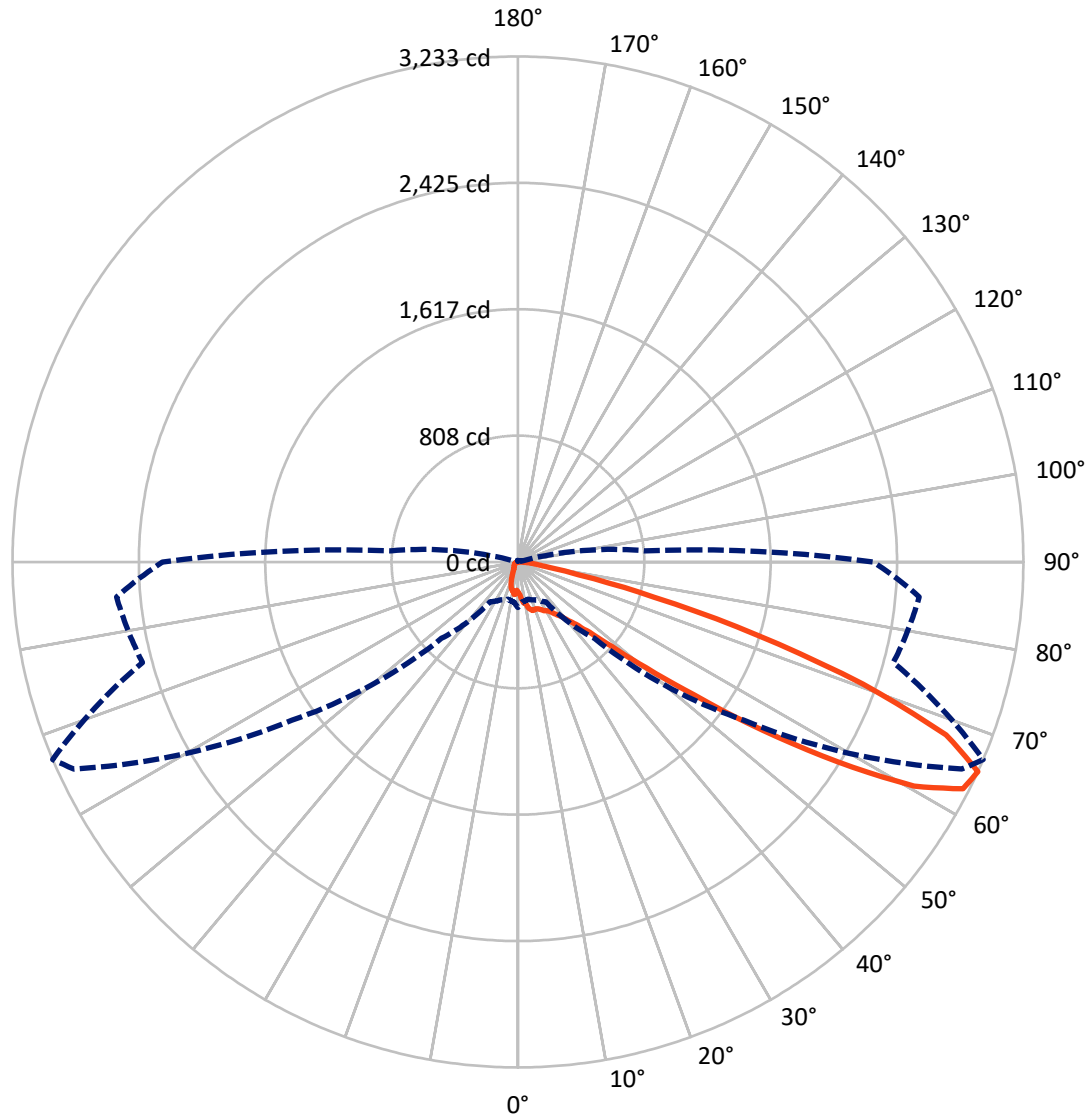
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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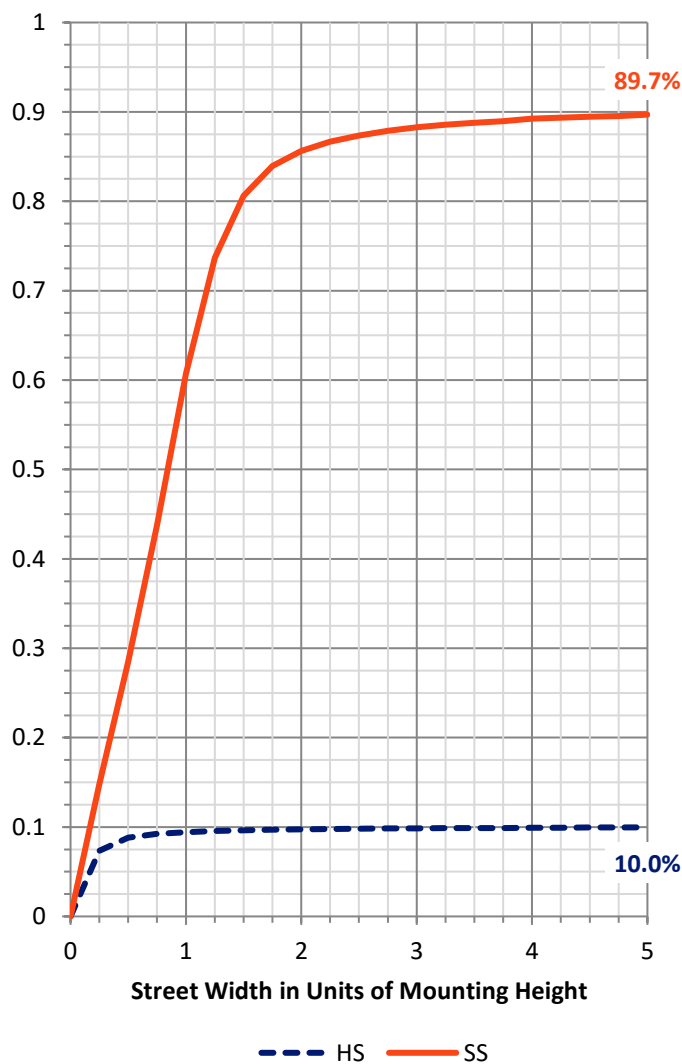
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 234.2    | 0.0    | 234.2  |
|                    | % Fixture | 10.1     | 0.0    | 10.1   |
| <b>Street Side</b> | Lumens    | 2087.8   | 0.0    | 2087.8 |
|                    | % Fixture | 89.9     | 0.0    | 89.9   |
| <b>Total</b>       | Lumens    | 2322.0   | 0.0    | 2322.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.2   | 0.8       |
| 10°-20°   | 56.5   | 2.4       |
| 20°-30°   | 98.1   | 4.2       |
| 30°-40°   | 175.4  | 7.6       |
| 40°-50°   | 369.1  | 15.9      |
| 50°-60°   | 670.2  | 28.9      |
| 60°-70°   | 687.2  | 29.6      |
| 70°-80°   | 220.6  | 9.5       |
| 80°-90°   | 25.7   | 1.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2322.0 | 100.0     |
| 0°-180°   | 2322.0 | 100.0     |

**Coefficient of Utilization**



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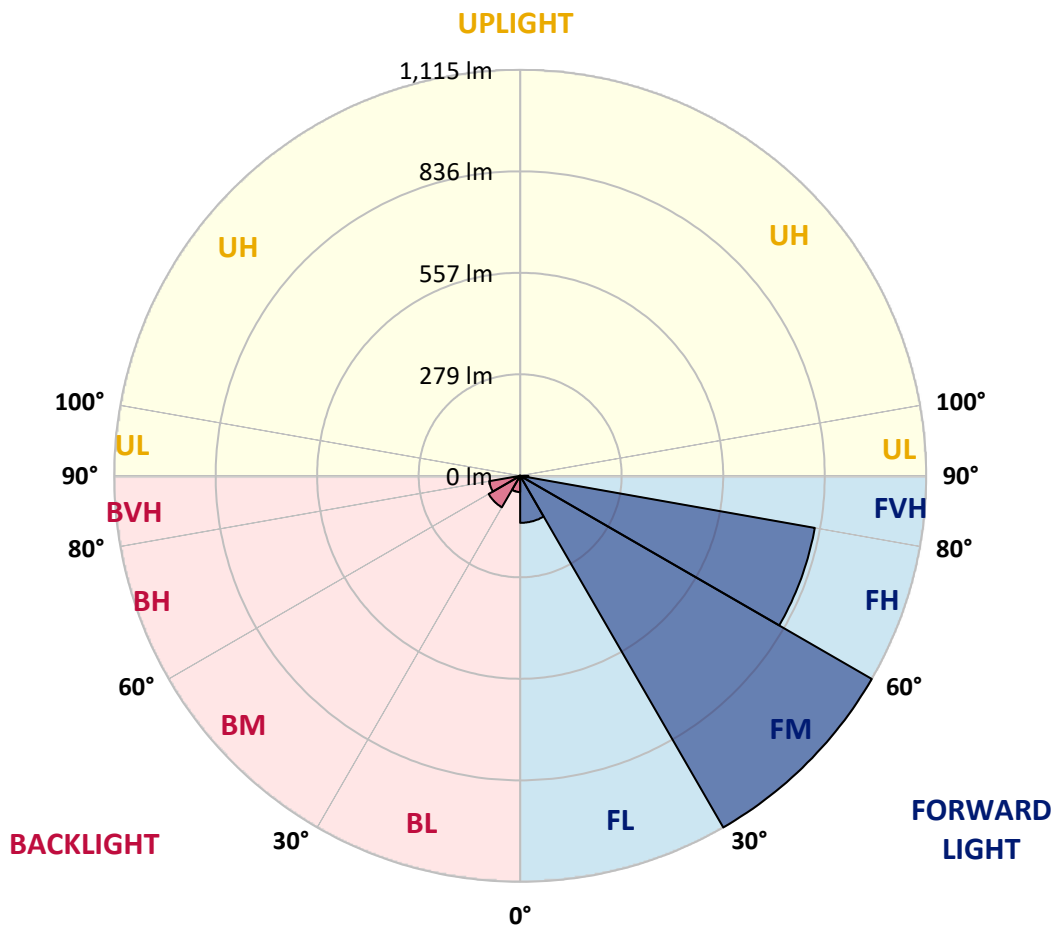
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 129.2  | 5.6       |                         |      |         |
| FM (30°-60°)   | 1114.8 | 48.0      |                         |      |         |
| FH (60°-80°)   | 821.4  | 35.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 22.4   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 44.6   | 1.9       | B0/110                  |      |         |
| BM (30°-60°)   | 99.9   | 4.3       | B0/220                  |      |         |
| BH (60°-80°)   | 86.4   | 3.7       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 3.3    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 67°  | 75°  | 85°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 194  | 194  | 194  | 194  | 194  | 194  | 194  | 194  | 194  | 194  | 194  |
| 2.5°  | 250  | 215  | 203  | 194  | 193  | 213  | 212  | 204  | 208  | 210  | 221  |
| 5°    | 269  | 234  | 239  | 214  | 194  | 191  | 201  | 236  | 238  | 267  | 270  |
| 7.5°  | 269  | 246  | 249  | 223  | 196  | 196  | 223  | 268  | 265  | 298  | 303  |
| 10°   | 239  | 230  | 228  | 211  | 212  | 234  | 236  | 264  | 270  | 310  | 310  |
| 12.5° | 216  | 216  | 230  | 224  | 238  | 258  | 269  | 298  | 302  | 332  | 333  |
| 15°   | 225  | 226  | 228  | 234  | 245  | 270  | 285  | 315  | 318  | 361  | 354  |
| 17.5° | 248  | 251  | 247  | 252  | 259  | 275  | 292  | 318  | 326  | 388  | 398  |
| 20°   | 271  | 273  | 265  | 249  | 269  | 276  | 297  | 312  | 319  | 396  | 428  |
| 22.5° | 307  | 299  | 276  | 263  | 266  | 273  | 292  | 313  | 325  | 393  | 463  |
| 25°   | 334  | 329  | 308  | 292  | 280  | 285  | 298  | 330  | 336  | 413  | 472  |
| 27.5° | 374  | 367  | 325  | 327  | 302  | 284  | 307  | 347  | 352  | 406  | 489  |
| 30°   | 424  | 430  | 374  | 371  | 341  | 300  | 330  | 356  | 361  | 413  | 509  |
| 32.5° | 515  | 509  | 454  | 412  | 384  | 353  | 335  | 366  | 378  | 443  | 544  |
| 35°   | 592  | 588  | 527  | 501  | 431  | 377  | 380  | 395  | 409  | 474  | 562  |
| 37.5° | 741  | 711  | 634  | 588  | 531  | 453  | 437  | 438  | 436  | 504  | 616  |
| 40°   | 881  | 850  | 762  | 710  | 613  | 545  | 482  | 481  | 488  | 545  | 655  |
| 42.5° | 1057 | 1014 | 918  | 887  | 761  | 616  | 544  | 544  | 544  | 606  | 724  |
| 45°   | 1170 | 1099 | 1038 | 1043 | 964  | 798  | 677  | 660  | 641  | 690  | 839  |
| 47.5° | 1244 | 1168 | 1108 | 1129 | 1150 | 1090 | 859  | 841  | 806  | 847  | 970  |
| 50°   | 1209 | 1145 | 1091 | 1118 | 1293 | 1369 | 1143 | 1101 | 1062 | 1046 | 1148 |
| 52.5° | 1114 | 1025 | 950  | 1029 | 1319 | 1550 | 1569 | 1426 | 1413 | 1319 | 1413 |
| 55°   | 925  | 846  | 788  | 848  | 1203 | 1627 | 1983 | 2014 | 1902 | 1693 | 1801 |
| 57.5° | 736  | 672  | 619  | 640  | 920  | 1586 | 2253 | 2598 | 2411 | 2025 | 2210 |
| 60°   | 547  | 491  | 463  | 484  | 653  | 1294 | 2319 | 3022 | 2911 | 2301 | 2477 |
| 62.5° | 399  | 354  | 330  | 331  | 444  | 942  | 2190 | 3170 | 3195 | 2484 | 2651 |
| 65°   | 292  | 259  | 247  | 268  | 311  | 691  | 1764 | 3133 | 3233 | 2486 | 2577 |
| 67.5° | 220  | 198  | 185  | 225  | 273  | 373  | 1315 | 3018 | 2954 | 2243 | 2135 |
| 70°   | 172  | 155  | 147  | 185  | 261  | 291  | 805  | 2473 | 2341 | 1716 | 1532 |
| 72.5° | 107  | 94   | 108  | 151  | 247  | 271  | 422  | 1689 | 1599 | 1143 | 886  |
| 75°   | 57   | 52   | 63   | 104  | 216  | 264  | 267  | 993  | 900  | 610  | 404  |
| 77.5° | 34   | 33   | 36   | 59   | 155  | 242  | 228  | 466  | 398  | 222  | 147  |
| 80°   | 18   | 16   | 22   | 35   | 80   | 227  | 197  | 228  | 171  | 62   | 49   |
| 82.5° | 7    | 7    | 12   | 24   | 43   | 144  | 171  | 148  | 108  | 25   | 32   |
| 85°   | 2    | 3    | 7    | 14   | 21   | 58   | 129  | 95   | 70   | 14   | 20   |
| 87.5° | 2    | 2    | 4    | 5    | 6    | 7    | 22   | 16   | 15   | 7    | 9    |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|-----|------|------|------|------|------|------|------|------|------|
| 0°    | 194  | 194 | 194  | 194  | 194  | 194  | 194  | 194  | 194  | 194  | 194  |
| 2.5°  | 230  | 197 | 205  | 176  | 171  | 174  | 168  | 166  | 176  | 181  | 191  |
| 5°    | 285  | 250 | 234  | 199  | 165  | 139  | 141  | 156  | 163  | 167  | 177  |
| 7.5°  | 313  | 280 | 256  | 197  | 144  | 118  | 117  | 120  | 122  | 123  | 127  |
| 10°   | 308  | 283 | 240  | 176  | 140  | 114  | 93   | 84   | 80   | 78   | 77   |
| 12.5° | 323  | 288 | 239  | 168  | 120  | 89   | 66   | 53   | 45   | 43   | 44   |
| 15°   | 333  | 309 | 239  | 153  | 95   | 65   | 46   | 40   | 39   | 40   | 40   |
| 17.5° | 366  | 340 | 224  | 130  | 73   | 46   | 40   | 39   | 39   | 40   | 39   |
| 20°   | 394  | 351 | 215  | 102  | 54   | 41   | 38   | 36   | 36   | 37   | 36   |
| 22.5° | 427  | 356 | 190  | 79   | 42   | 37   | 34   | 32   | 32   | 33   | 34   |
| 25°   | 437  | 361 | 163  | 62   | 37   | 33   | 31   | 29   | 28   | 29   | 29   |
| 27.5° | 450  | 352 | 133  | 49   | 35   | 30   | 28   | 26   | 24   | 25   | 25   |
| 30°   | 447  | 366 | 110  | 40   | 33   | 28   | 25   | 23   | 21   | 22   | 22   |
| 32.5° | 474  | 347 | 92   | 38   | 31   | 26   | 23   | 21   | 20   | 21   | 21   |
| 35°   | 481  | 347 | 81   | 36   | 30   | 24   | 21   | 19   | 18   | 19   | 19   |
| 37.5° | 513  | 342 | 69   | 35   | 28   | 23   | 20   | 18   | 17   | 18   | 18   |
| 40°   | 551  | 341 | 58   | 33   | 26   | 22   | 18   | 17   | 16   | 16   | 17   |
| 42.5° | 609  | 364 | 51   | 32   | 24   | 20   | 17   | 16   | 15   | 15   | 15   |
| 45°   | 691  | 379 | 46   | 31   | 23   | 19   | 16   | 15   | 14   | 14   | 14   |
| 47.5° | 780  | 390 | 44   | 29   | 22   | 18   | 15   | 14   | 13   | 13   | 13   |
| 50°   | 910  | 423 | 42   | 27   | 21   | 18   | 15   | 13   | 12   | 11   | 11   |
| 52.5° | 1142 | 486 | 39   | 25   | 20   | 17   | 14   | 12   | 11   | 11   | 11   |
| 55°   | 1495 | 647 | 37   | 23   | 19   | 16   | 13   | 11   | 10   | 10   | 10   |
| 57.5° | 1868 | 792 | 34   | 22   | 17   | 14   | 12   | 11   | 10   | 9    | 9    |
| 60°   | 2169 | 896 | 31   | 19   | 16   | 13   | 11   | 10   | 9    | 9    | 8    |
| 62.5° | 2345 | 905 | 28   | 18   | 15   | 12   | 10   | 10   | 9    | 8    | 7    |
| 65°   | 2274 | 816 | 25   | 16   | 13   | 11   | 10   | 9    | 9    | 8    | 7    |
| 67.5° | 1953 | 695 | 22   | 15   | 12   | 11   | 9    | 9    | 8    | 8    | 6    |
| 70°   | 1408 | 518 | 20   | 14   | 12   | 10   | 9    | 9    | 8    | 8    | 6    |
| 72.5° | 807  | 295 | 18   | 13   | 11   | 9    | 10   | 10   | 9    | 8    | 6    |
| 75°   | 384  | 107 | 16   | 12   | 10   | 9    | 10   | 10   | 9    | 8    | 6    |
| 77.5° | 118  | 41  | 14   | 11   | 9    | 8    | 10   | 9    | 8    | 6    | 5    |
| 80°   | 42   | 18  | 11   | 9    | 8    | 5    | 8    | 8    | 7    | 6    | 4    |
| 82.5° | 30   | 11  | 9    | 8    | 6    | 3    | 7    | 7    | 7    | 6    | 4    |
| 85°   | 18   | 7   | 7    | 7    | 6    | 3    | 6    | 6    | 6    | 6    | 4    |
| 87.5° | 5    | 6   | 7    | 6    | 5    | 3    | 6    | 6    | 6    | 6    | 4    |
| 90°   | 0    | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)