

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: P402581

Luminaire Tested: **GAN-AF-02-LED-U-SL4-AMB-HSS**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/8/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-SL4-AMB-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

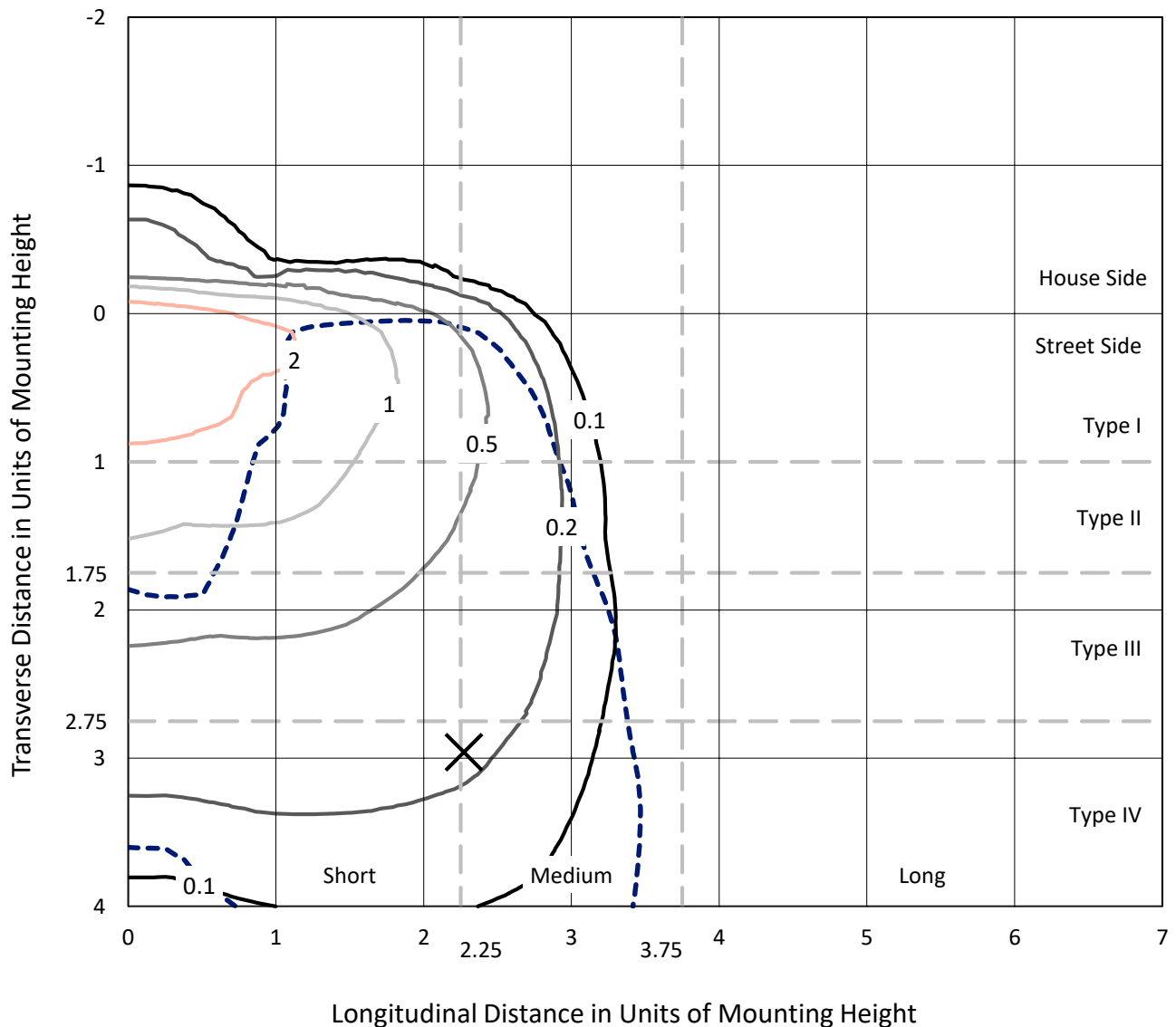
Lumens per Lamp: N/A  
Luminaire Lumens: 1790 lumens  
Efficiency: N/A  
Efficacy: 42.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 41.7  
Input Voltage (V): NR  
Input Current (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

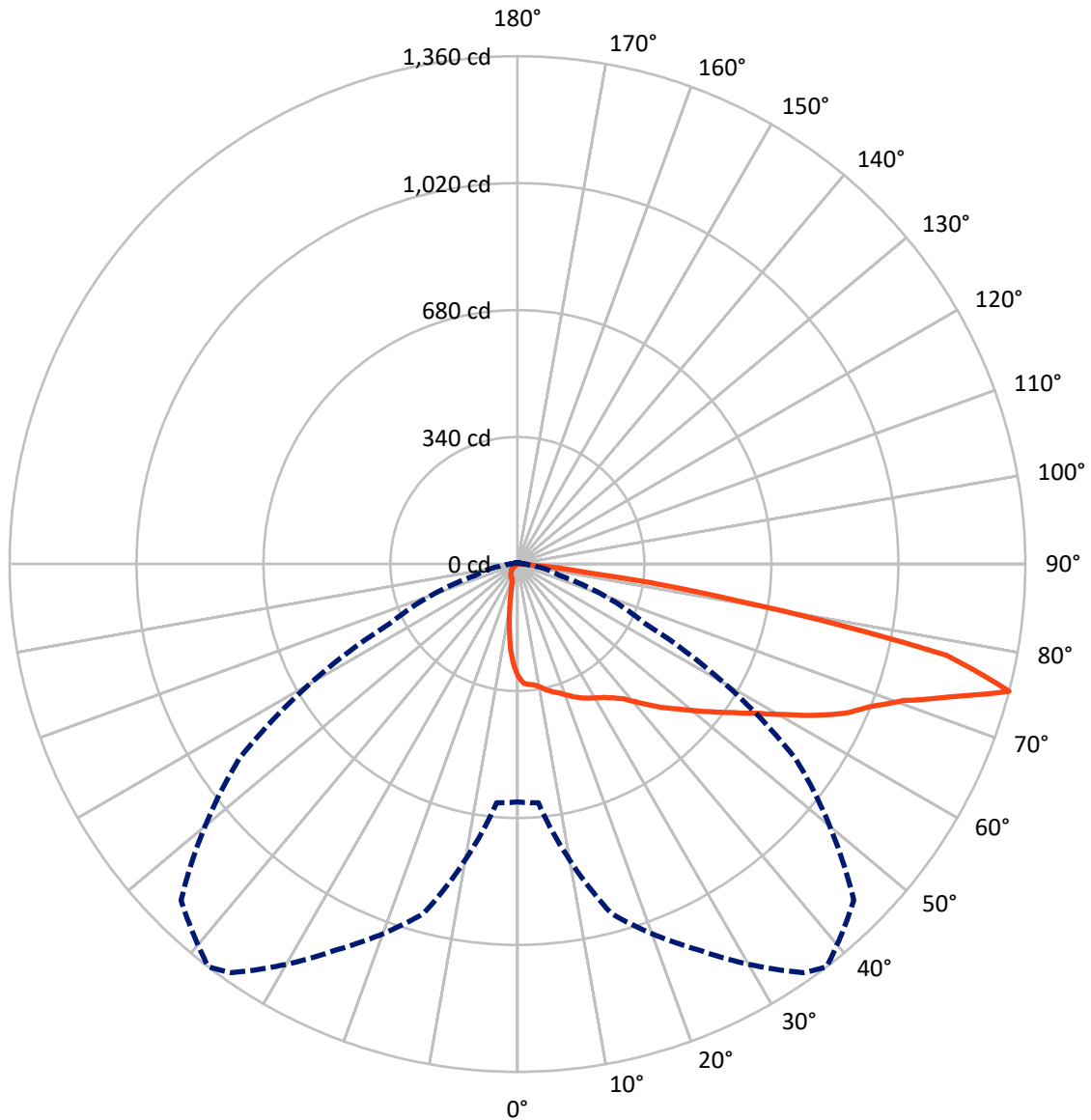
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical



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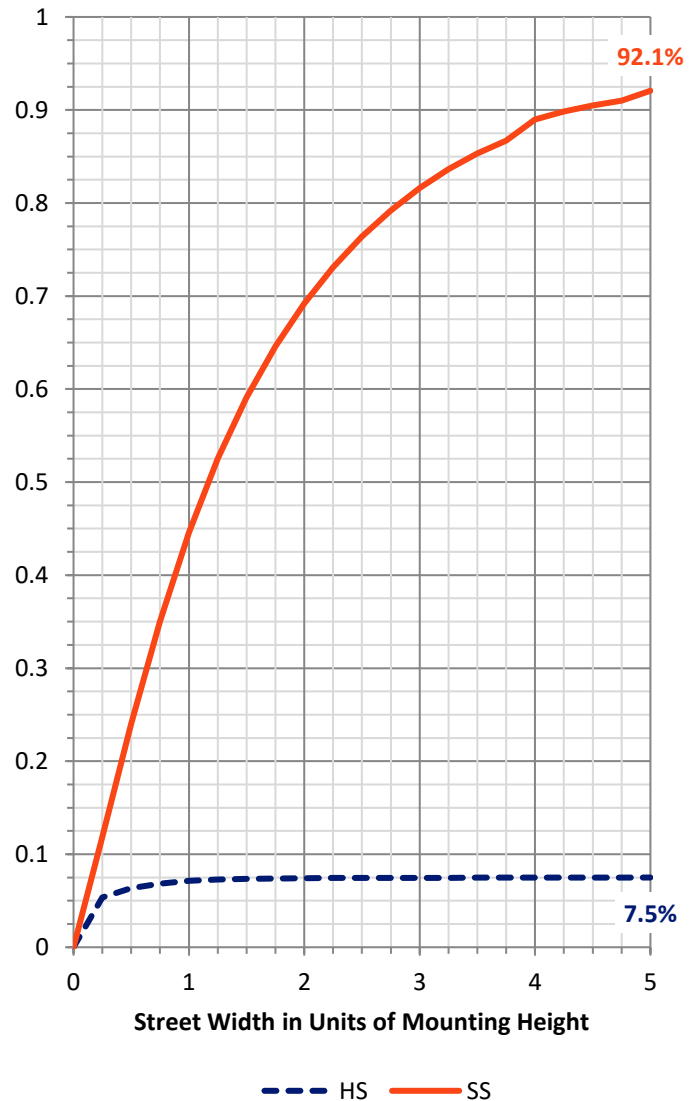
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 135.3    | 0.0    | 135.3  |
|                    | % Fixture | 7.6      | 0.0    | 7.6    |
| <b>Street Side</b> | Lumens    | 1654.7   | 0.0    | 1654.7 |
|                    | % Fixture | 92.4     | 0.0    | 92.4   |
| <b>Total</b>       | Lumens    | 1790.0   | 0.0    | 1790.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.5   | 1.4       |
| 10°-20°   | 64.6   | 3.6       |
| 20°-30°   | 105.8  | 5.9       |
| 30°-40°   | 157.2  | 8.8       |
| 40°-50°   | 235.3  | 13.1      |
| 50°-60°   | 338.2  | 18.9      |
| 60°-70°   | 453.2  | 25.3      |
| 70°-80°   | 367.1  | 20.5      |
| 80°-90°   | 42.9   | 2.4       |
| 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°    | 1790.0 | 100.0     |
| 0°-180°   | 1790.0 | 100.0     |



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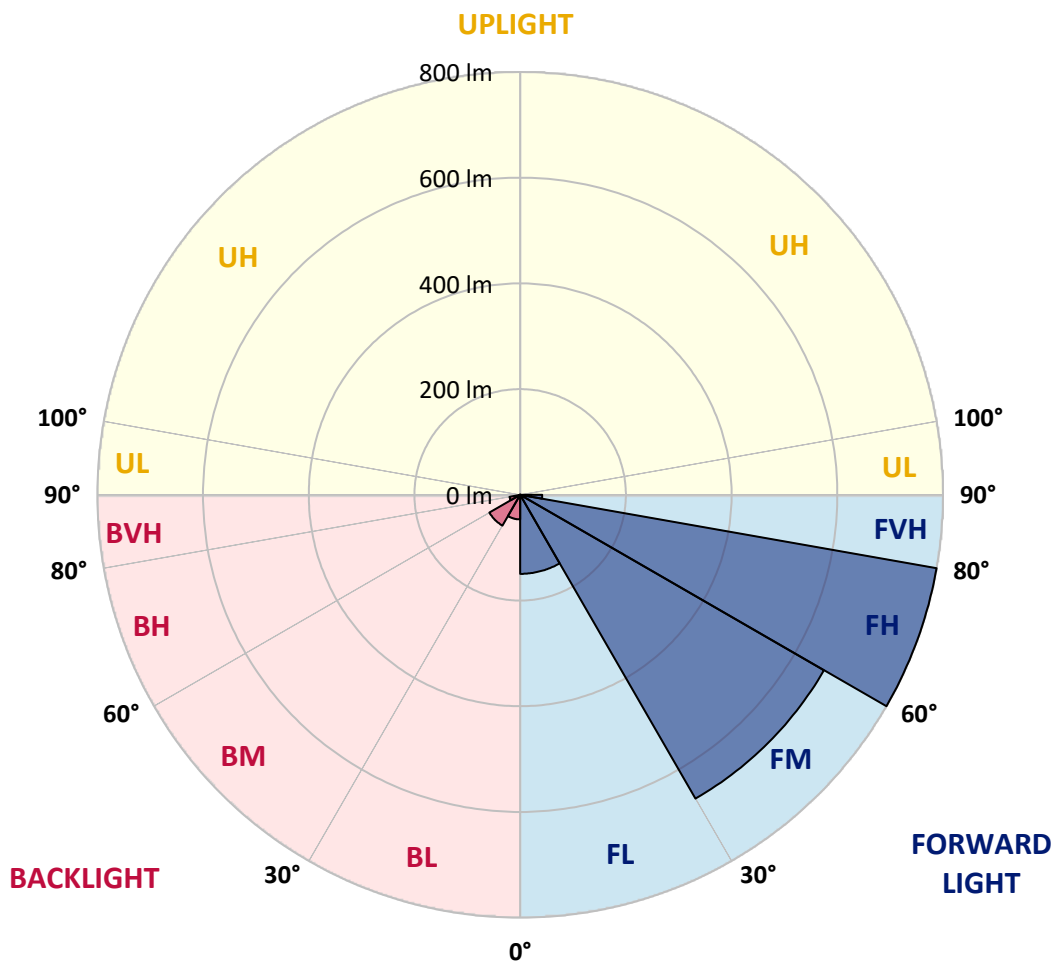
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 149.5  | 8.4       |                         |      |         |
| FM (30°-60°)   | 663.6  | 37.1      |                         |      |         |
| FH (60°-80°)   | 799.9  | 44.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 41.7   | 2.3       |                         |      | G1/100  |
| BL (0°-30°)    | 46.5   | 2.6       | B0/110                  |      |         |
| BM (30°-60°)   | 67.2   | 3.8       | B0/220                  |      |         |
| BH (60°-80°)   | 20.4   | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.2    | 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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°  | 5°  | 15° | 25°  | 35°  | 37.5° | 45°  | 55°  | 65°  | 75°  | 85° |
|-------|-----|-----|-----|------|------|-------|------|------|------|------|-----|
| 0°    | 301 | 301 | 301 | 301  | 301  | 301   | 301  | 301  | 301  | 301  | 301 |
| 2.5°  | 324 | 323 | 323 | 321  | 320  | 320   | 316  | 315  | 311  | 307  | 302 |
| 5°    | 325 | 325 | 324 | 325  | 324  | 324   | 322  | 321  | 317  | 309  | 300 |
| 7.5°  | 331 | 330 | 329 | 329  | 327  | 327   | 322  | 320  | 316  | 311  | 298 |
| 10°   | 331 | 331 | 333 | 335  | 335  | 335   | 330  | 324  | 318  | 313  | 298 |
| 12.5° | 330 | 330 | 333 | 340  | 345  | 346   | 343  | 335  | 325  | 316  | 302 |
| 15°   | 329 | 330 | 334 | 344  | 353  | 355   | 354  | 348  | 335  | 322  | 307 |
| 17.5° | 331 | 333 | 338 | 352  | 362  | 363   | 364  | 360  | 346  | 330  | 315 |
| 20°   | 334 | 335 | 346 | 363  | 373  | 374   | 373  | 367  | 355  | 340  | 324 |
| 22.5° | 339 | 341 | 355 | 374  | 385  | 386   | 383  | 373  | 360  | 348  | 334 |
| 25°   | 349 | 351 | 368 | 387  | 395  | 397   | 394  | 382  | 365  | 357  | 345 |
| 27.5° | 361 | 364 | 382 | 400  | 405  | 407   | 404  | 390  | 372  | 369  | 359 |
| 30°   | 379 | 381 | 398 | 413  | 415  | 416   | 414  | 398  | 382  | 382  | 373 |
| 32.5° | 401 | 404 | 415 | 426  | 425  | 426   | 425  | 408  | 394  | 402  | 390 |
| 35°   | 427 | 424 | 437 | 442  | 438  | 440   | 441  | 424  | 412  | 428  | 413 |
| 37.5° | 447 | 447 | 454 | 459  | 456  | 458   | 461  | 445  | 437  | 465  | 448 |
| 40°   | 464 | 464 | 469 | 479  | 480  | 484   | 490  | 471  | 471  | 508  | 489 |
| 42.5° | 477 | 479 | 483 | 496  | 509  | 516   | 522  | 503  | 512  | 563  | 543 |
| 45°   | 490 | 492 | 494 | 513  | 539  | 549   | 561  | 543  | 559  | 621  | 599 |
| 47.5° | 506 | 506 | 505 | 535  | 567  | 580   | 601  | 586  | 615  | 692  | 658 |
| 50°   | 526 | 524 | 515 | 558  | 601  | 617   | 649  | 634  | 678  | 766  | 702 |
| 52.5° | 549 | 544 | 530 | 582  | 638  | 658   | 699  | 689  | 744  | 825  | 727 |
| 55°   | 578 | 570 | 551 | 611  | 683  | 703   | 751  | 757  | 807  | 859  | 753 |
| 57.5° | 615 | 600 | 579 | 647  | 735  | 754   | 810  | 823  | 849  | 892  | 786 |
| 60°   | 652 | 636 | 617 | 696  | 792  | 818   | 873  | 878  | 883  | 938  | 822 |
| 62.5° | 685 | 676 | 665 | 751  | 870  | 893   | 927  | 920  | 926  | 992  | 851 |
| 65°   | 727 | 718 | 716 | 814  | 944  | 964   | 968  | 971  | 993  | 1045 | 866 |
| 67.5° | 763 | 760 | 778 | 889  | 1011 | 1019  | 1034 | 1051 | 1063 | 1069 | 766 |
| 70°   | 814 | 809 | 849 | 964  | 1078 | 1095  | 1148 | 1165 | 1082 | 876  | 469 |
| 72.5° | 819 | 828 | 937 | 1042 | 1178 | 1215  | 1281 | 1190 | 841  | 470  | 146 |
| 75°   | 637 | 642 | 968 | 1139 | 1336 | 1360  | 1274 | 910  | 376  | 116  | 33  |
| 77.5° | 355 | 374 | 647 | 1057 | 1214 | 1176  | 871  | 402  | 97   | 26   | 17  |
| 80°   | 260 | 269 | 312 | 605  | 687  | 604   | 363  | 153  | 53   | 18   | 12  |
| 82.5° | 77  | 83  | 161 | 195  | 243  | 193   | 109  | 117  | 34   | 13   | 10  |
| 85°   | 21  | 22  | 55  | 77   | 70   | 45    | 40   | 101  | 14   | 9    | 8   |
| 87.5° | 10  | 10  | 17  | 34   | 29   | 24    | 33   | 59   | 3    | 3    | 2   |
| 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°    | 301 | 301 | 301  | 301  | 301  | 301  | 301  | 301  | 301  | 301  | 301  |
| 2.5°  | 299 | 297 | 289  | 285  | 281  | 274  | 270  | 267  | 266  | 264  | 265  |
| 5°    | 294 | 287 | 274  | 263  | 250  | 236  | 228  | 219  | 210  | 208  | 207  |
| 7.5°  | 290 | 280 | 260  | 239  | 217  | 193  | 171  | 157  | 143  | 141  | 140  |
| 10°   | 288 | 274 | 245  | 214  | 178  | 145  | 121  | 105  | 95   | 90   | 88   |
| 12.5° | 288 | 271 | 233  | 189  | 143  | 107  | 83   | 67   | 60   | 57   | 56   |
| 15°   | 290 | 269 | 219  | 160  | 112  | 76   | 58   | 50   | 47   | 46   | 47   |
| 17.5° | 295 | 269 | 206  | 135  | 85   | 56   | 46   | 45   | 44   | 44   | 44   |
| 20°   | 302 | 271 | 192  | 113  | 63   | 46   | 43   | 43   | 43   | 43   | 43   |
| 22.5° | 310 | 272 | 176  | 92   | 51   | 42   | 41   | 41   | 41   | 41   | 41   |
| 25°   | 318 | 274 | 159  | 72   | 42   | 40   | 39   | 40   | 40   | 40   | 40   |
| 27.5° | 328 | 276 | 142  | 57   | 39   | 38   | 38   | 38   | 38   | 38   | 38   |
| 30°   | 337 | 276 | 126  | 47   | 37   | 36   | 36   | 36   | 36   | 36   | 36   |
| 32.5° | 348 | 275 | 109  | 39   | 35   | 34   | 33   | 34   | 34   | 34   | 33   |
| 35°   | 364 | 275 | 90   | 36   | 33   | 32   | 31   | 31   | 31   | 31   | 31   |
| 37.5° | 385 | 279 | 71   | 33   | 30   | 29   | 29   | 29   | 28   | 28   | 28   |
| 40°   | 416 | 286 | 57   | 31   | 28   | 27   | 26   | 26   | 25   | 24   | 24   |
| 42.5° | 453 | 294 | 47   | 29   | 26   | 25   | 24   | 23   | 22   | 21   | 21   |
| 45°   | 490 | 300 | 37   | 27   | 24   | 23   | 22   | 21   | 19   | 18   | 17   |
| 47.5° | 529 | 300 | 30   | 25   | 23   | 21   | 20   | 18   | 16   | 14   | 14   |
| 50°   | 552 | 289 | 27   | 23   | 21   | 19   | 18   | 15   | 13   | 11   | 11   |
| 52.5° | 565 | 274 | 25   | 21   | 20   | 18   | 15   | 13   | 10   | 8    | 8    |
| 55°   | 576 | 267 | 23   | 20   | 18   | 16   | 13   | 10   | 7    | 6    | 6    |
| 57.5° | 590 | 256 | 21   | 18   | 16   | 14   | 11   | 8    | 5    | 4    | 4    |
| 60°   | 602 | 241 | 19   | 17   | 15   | 12   | 9    | 6    | 3    | 2    | 2    |
| 62.5° | 608 | 218 | 17   | 15   | 13   | 10   | 7    | 4    | 2    | 1    | 1    |
| 65°   | 591 | 183 | 16   | 13   | 11   | 8    | 5    | 2    | 1    | 0    | 0    |
| 67.5° | 483 | 118 | 13   | 11   | 9    | 6    | 4    | 2    | 1    | 0    | 0    |
| 70°   | 248 | 50  | 11   | 9    | 8    | 5    | 3    | 1    | 0    | 0    | 0    |
| 72.5° | 65  | 18  | 9    | 8    | 7    | 5    | 2    | 1    | 0    | 0    | 0    |
| 75°   | 20  | 12  | 7    | 6    | 6    | 4    | 2    | 1    | 0    | 0    | 0    |
| 77.5° | 14  | 9   | 6    | 5    | 5    | 4    | 2    | 1    | 0    | 0    | 0    |
| 80°   | 11  | 8   | 5    | 4    | 5    | 5    | 2    | 1    | 0    | 0    | 0    |
| 82.5° | 9   | 7   | 4    | 4    | 5    | 5    | 3    | 1    | 0    | 0    | 0    |
| 85°   | 7   | 5   | 4    | 4    | 5    | 4    | 2    | 1    | 0    | 0    | 0    |
| 87.5° | 2   | 2   | 1    | 1    | 1    | 2    | 2    | 1    | 0    | 0    | 0    |
| 90°   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)