

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768872

Luminaire Tested: **ACN25SXX3314X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768872  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN25SXX3314X  
Description: GENERATIONS POST TOP  
W/TALL SPUN TOP & CAGE  
Light Source: 250 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 27500 (1 lamp)  
Luminaire Lumens: 12560.2 lumens  
Efficiency: 45.7%  
Efficacy: 50.2 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B4 - U3 - G5

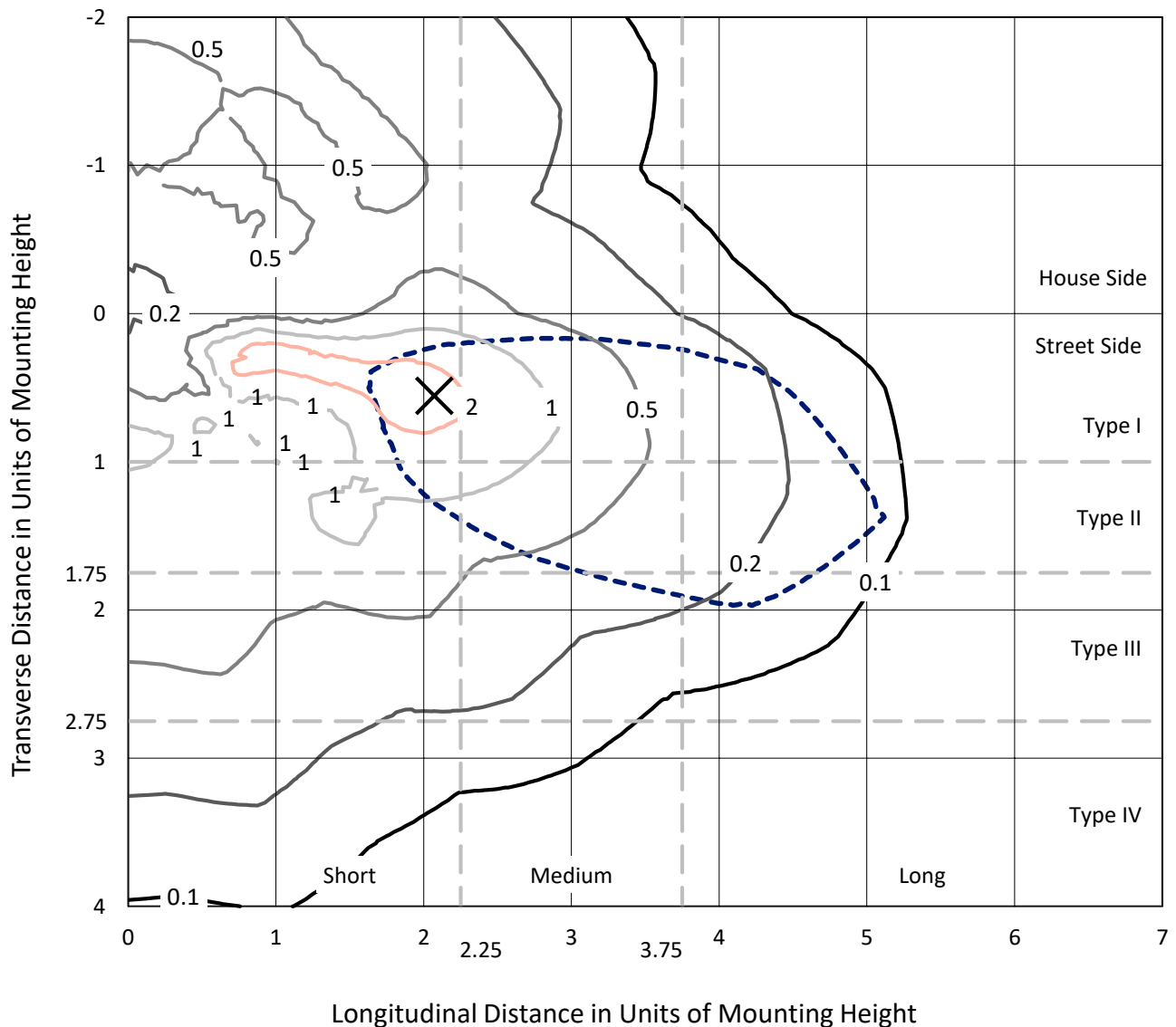
Input Watts (W): 250  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

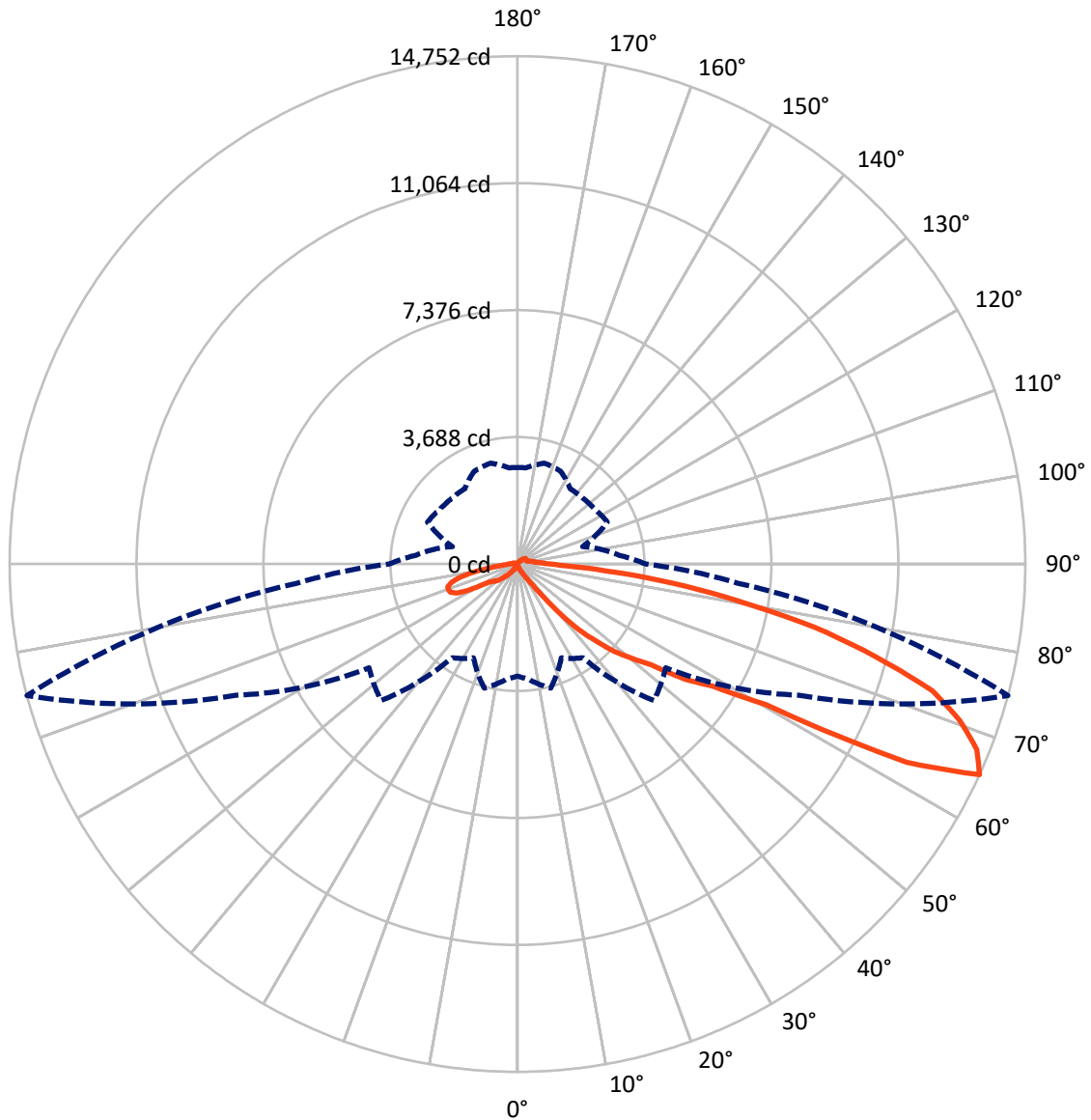
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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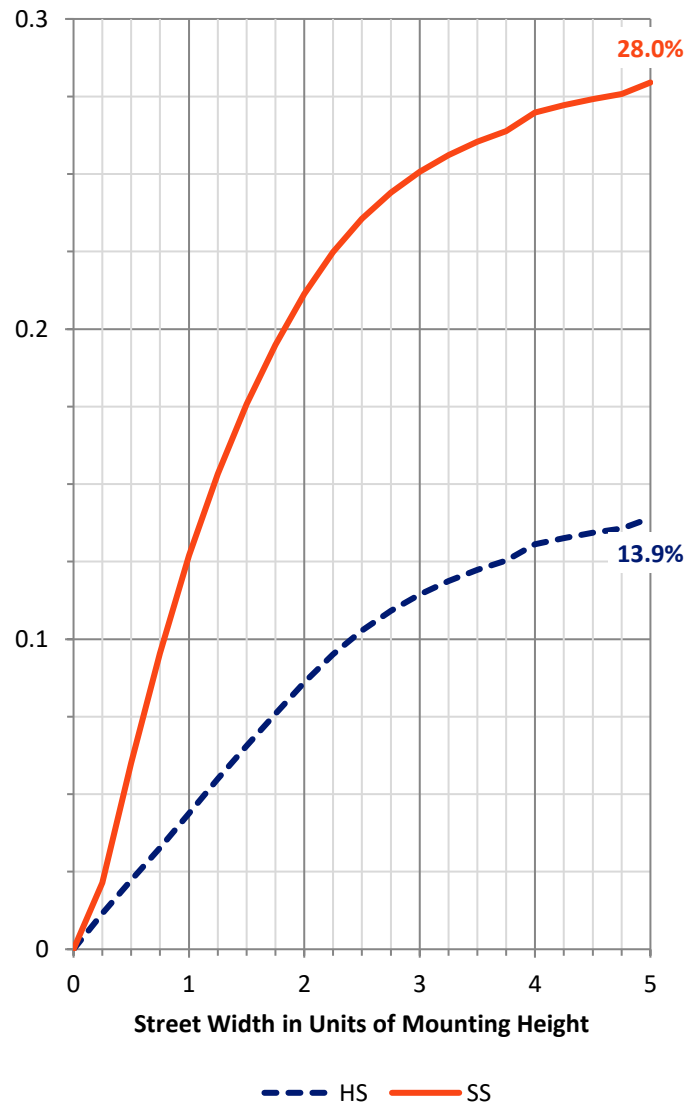
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 3953.2   | 266.9  | 4220.1  |
|                    | % Lamp | 14.4     | 1.0    | 15.3    |
| <b>Street Side</b> | Lumens | 7916.1   | 423.9  | 8340.0  |
|                    | % Lamp | 28.8     | 1.5    | 30.3    |
| <b>Total</b>       | Lumens | 11869.3  | 690.9  | 12560.2 |
|                    | % Lamp | 43.2     | 2.5    | 45.7    |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 6.6     | 0.1       | 0.0    |
| 10°-20°   | 28.3    | 0.2       | 0.1    |
| 20°-30°   | 81.8    | 0.7       | 0.3    |
| 30°-40°   | 275.7   | 2.2       | 1.0    |
| 40°-50°   | 730.6   | 5.8       | 2.7    |
| 50°-60°   | 1396.7  | 11.1      | 5.1    |
| 60°-70°   | 4004.1  | 31.9      | 14.6   |
| 70°-80°   | 4136.3  | 32.9      | 15.0   |
| 80°-90°   | 1209.2  | 9.6       | 4.4    |
| 90°-100°  | 301.5   | 2.4       | 1.1    |
| 100°-110° | 176.4   | 1.4       | 0.6    |
| 110°-120° | 105.9   | 0.8       | 0.4    |
| 120°-130° | 64.5    | 0.5       | 0.2    |
| 130°-140° | 36.0    | 0.3       | 0.1    |
| 140°-150° | 14.8    | 0.1       | 0.1    |
| 150°-160° | 3.1     | 0.0       | 0.0    |
| 160°-170° | 0.1     | 0.0       | 0.0    |
| 170°-180° | 0.0     | 0.0       | 0.0    |
| 0°-90°    | 11869.3 | 94.5      | 43.2   |
| 0°-180°   | 12560.2 | 100.0     | 45.7   |



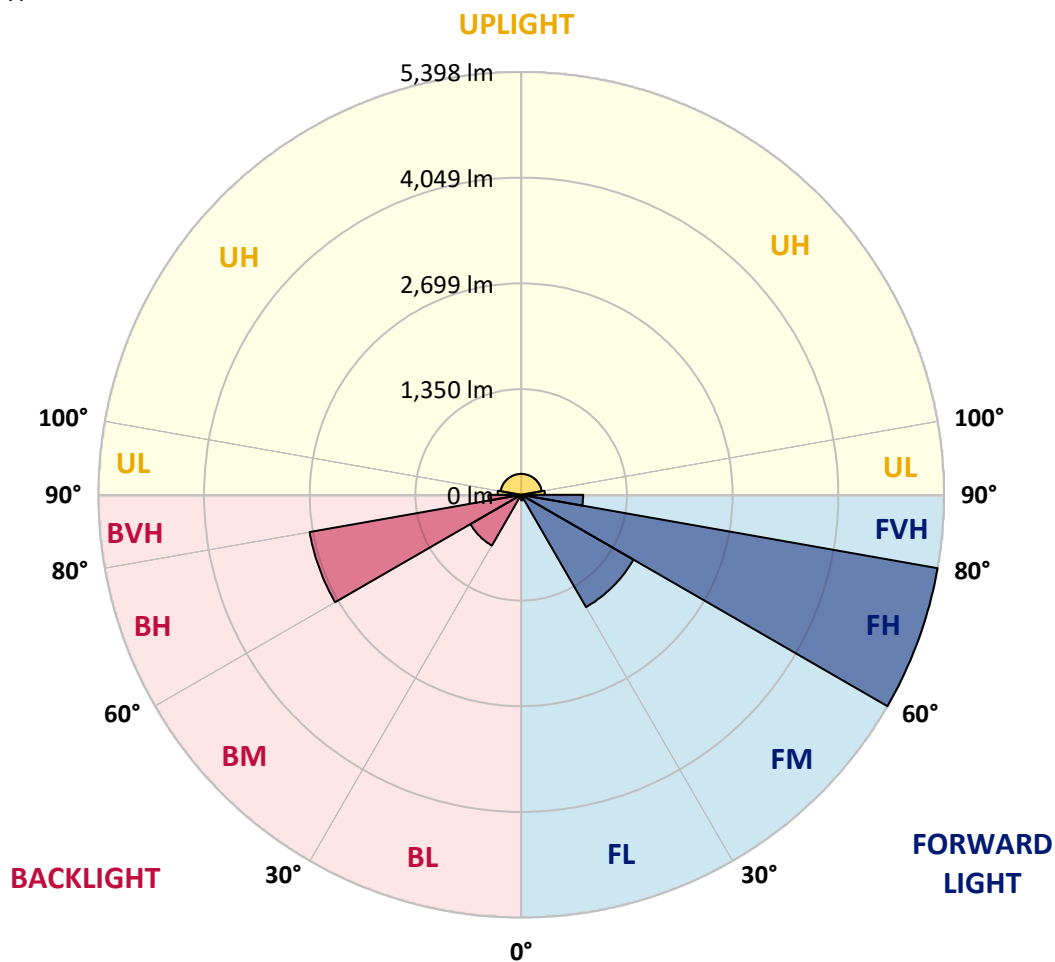
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Lamp | Zone Rating/Lumen Limit |        |         |
|----------------|---------|--------|-------------------------|--------|---------|
|                |         |        | B                       | U      | G       |
| FL (0°-30°)    | 71.3    | 0.3    |                         |        |         |
| FM (30°-60°)   | 1655.2  | 6.0    |                         |        |         |
| FH (60°-80°)   | 5398.3  | 19.6   |                         |        | G3/7500 |
| FVH (80°-90°)  | 791.3   | 2.9    |                         |        | G5      |
| BL (0°-30°)    | 45.5    | 0.2    | B0/110                  |        |         |
| BM (30°-60°)   | 747.7   | 2.7    | B1/1000                 |        |         |
| BH (60°-80°)   | 2742.1  | 10.0   | B4/5000                 |        | G4/5000 |
| BVH (80°-90°)  | 417.9   | 1.5    |                         |        | G3/500  |
| UL (90°-100°)  | 301.5   | 1.1    |                         | U3/500 |         |
| UH (100°-180°) | 266.9   | 1.0    |                         | U3/500 |         |
| Trapped Light  | 14939.8 | 54.3   |                         |        |         |

**BUG Rating: B4-U3-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°   | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|-------|------|------|
| 0°    | 73   | 73   | 73   | 73   | 73   | 73   | 73   | 73   | 73    | 73   | 73   |
| 2.5°  | 73   | 73   | 77   | 82   | 82   | 73   | 73   | 77   | 73    | 73   | 77   |
| 5°    | 73   | 86   | 82   | 77   | 82   | 86   | 82   | 77   | 73    | 68   | 64   |
| 7.5°  | 82   | 86   | 86   | 86   | 86   | 86   | 86   | 82   | 77    | 68   | 59   |
| 10°   | 91   | 91   | 95   | 95   | 100  | 100  | 100  | 95   | 86    | 77   | 73   |
| 12.5° | 109  | 105  | 105  | 105  | 109  | 118  | 114  | 105  | 95    | 95   | 82   |
| 15°   | 118  | 114  | 114  | 114  | 123  | 127  | 132  | 123  | 109   | 95   | 91   |
| 17.5° | 118  | 118  | 114  | 114  | 118  | 141  | 136  | 127  | 109   | 105  | 100  |
| 20°   | 127  | 127  | 123  | 118  | 123  | 141  | 145  | 141  | 127   | 118  | 105  |
| 22.5° | 155  | 155  | 136  | 141  | 150  | 155  | 186  | 218  | 168   | 136  | 118  |
| 25°   | 236  | 227  | 191  | 186  | 195  | 186  | 241  | 332  | 223   | 155  | 132  |
| 27.5° | 300  | 277  | 227  | 223  | 232  | 205  | 282  | 473  | 282   | 177  | 145  |
| 30°   | 355  | 332  | 268  | 245  | 273  | 205  | 327  | 636  | 336   | 191  | 159  |
| 32.5° | 473  | 441  | 355  | 318  | 355  | 227  | 436  | 964  | 505   | 227  | 186  |
| 35°   | 609  | 577  | 473  | 400  | 473  | 268  | 500  | 1291 | 718   | 273  | 218  |
| 37.5° | 827  | 809  | 682  | 541  | 691  | 318  | 664  | 1768 | 1123  | 350  | 264  |
| 40°   | 1082 | 1100 | 936  | 718  | 973  | 500  | 886  | 2318 | 1828  | 446  | 323  |
| 42.5° | 1273 | 1305 | 1123 | 850  | 1159 | 832  | 1064 | 2405 | 2600  | 546  | 400  |
| 45°   | 1218 | 1227 | 1073 | 823  | 1077 | 1050 | 991  | 1941 | 3160  | 564  | 414  |
| 47.5° | 1200 | 1173 | 1050 | 809  | 1050 | 1305 | 996  | 1655 | 3801  | 596  | 436  |
| 50°   | 1318 | 1255 | 1127 | 891  | 1137 | 1509 | 1096 | 1646 | 4301  | 746  | 505  |
| 52.5° | 1509 | 1427 | 1237 | 1005 | 1268 | 1787 | 1259 | 1832 | 4855  | 968  | 641  |
| 55°   | 1737 | 1641 | 1391 | 1141 | 1455 | 2137 | 1446 | 2137 | 5901  | 1355 | 864  |
| 57.5° | 1737 | 1678 | 1477 | 1232 | 1537 | 2323 | 1518 | 2400 | 6678  | 1946 | 1209 |
| 60°   | 2028 | 2014 | 1909 | 1618 | 1955 | 3123 | 2209 | 3682 | 8287  | 2909 | 1868 |
| 62.5° | 2782 | 2841 | 2973 | 2473 | 2887 | 4742 | 3932 | 6855 | 12693 | 4742 | 2814 |
| 65°   | 3255 | 3346 | 3732 | 3009 | 3323 | 5610 | 5260 | 9019 | 14752 | 6442 | 3719 |
| 67.5° | 3346 | 3405 | 3969 | 3182 | 3373 | 5892 | 5810 | 9774 | 14393 | 7446 | 4255 |
| 70°   | 3355 | 3369 | 4019 | 3205 | 3328 | 5855 | 5792 | 9897 | 13634 | 8215 | 4582 |
| 72.5° | 3219 | 3205 | 3887 | 3100 | 3182 | 5387 | 5528 | 9592 | 12611 | 8592 | 4773 |
| 75°   | 2855 | 2805 | 3450 | 2787 | 2800 | 4319 | 4760 | 8578 | 10738 | 8092 | 4542 |
| 77.5° | 2428 | 2369 | 2950 | 2419 | 2337 | 3187 | 3791 | 7437 | 8824  | 6760 | 3878 |
| 80°   | 1828 | 1755 | 2241 | 1832 | 1732 | 2068 | 2455 | 5569 | 6474  | 4937 | 2887 |
| 82.5° | 1300 | 1209 | 1577 | 1259 | 1168 | 1287 | 1318 | 3901 | 4532  | 3200 | 1878 |
| 85°   | 782  | 691  | 909  | 741  | 673  | 700  | 632  | 2246 | 2591  | 1705 | 1037 |
| 87.5° | 455  | 405  | 527  | 455  | 418  | 436  | 414  | 1155 | 1300  | 964  | 636  |
| 90°   | 346  | 314  | 400  | 364  | 336  | 341  | 341  | 759  | 846   | 677  | 464  |
| 95°   | 227  | 218  | 259  | 250  | 227  | 223  | 227  | 468  | 532   | 418  | 277  |
| 105°  | 155  | 145  | 159  | 159  | 132  | 132  | 105  | 245  | 305   | 218  | 141  |
| 115°  | 91   | 91   | 95   | 95   | 91   | 86   | 50   | 191  | 268   | 136  | 82   |
| 125°  | 55   | 55   | 59   | 59   | 59   | 64   | 36   | 145  | 282   | 86   | 45   |
| 135°  | 45   | 45   | 41   | 41   | 36   | 36   | 32   | 186  | 145   | 27   | 27   |
| 145°  | 27   | 32   | 27   | 27   | 18   | 14   | 41   | 127  | 45    | 14   | 9    |
| 155°  | 9    | 5    | 0    | 0    | 0    | 0    | 9    | 14   | 5     | 0    | 0    |
| 165°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (continued):**

|      | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 180° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |





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**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 73   | 73   | 73   | 73   | 73   | 73   | 73   | 73   | 73   | 73   |
| 2.5°  | 77   | 73   | 73   | 68   | 68   | 68   | 64   | 68   | 64   | 64   |
| 5°    | 55   | 59   | 59   | 50   | 45   | 45   | 41   | 45   | 45   | 45   |
| 7.5°  | 59   | 55   | 55   | 55   | 50   | 50   | 45   | 50   | 45   | 45   |
| 10°   | 68   | 68   | 64   | 59   | 64   | 59   | 59   | 55   | 55   | 55   |
| 12.5° | 86   | 77   | 73   | 73   | 73   | 73   | 73   | 73   | 73   | 73   |
| 15°   | 91   | 86   | 86   | 82   | 82   | 86   | 77   | 82   | 86   | 91   |
| 17.5° | 95   | 95   | 91   | 86   | 91   | 91   | 95   | 91   | 95   | 91   |
| 20°   | 100  | 95   | 100  | 100  | 100  | 100  | 100  | 105  | 105  | 100  |
| 22.5° | 109  | 105  | 109  | 109  | 114  | 114  | 114  | 114  | 109  | 109  |
| 25°   | 127  | 123  | 127  | 132  | 136  | 136  | 136  | 136  | 132  | 136  |
| 27.5° | 132  | 136  | 145  | 145  | 155  | 155  | 159  | 150  | 155  | 155  |
| 30°   | 150  | 150  | 159  | 164  | 168  | 168  | 173  | 168  | 168  | 164  |
| 32.5° | 177  | 182  | 200  | 195  | 200  | 191  | 200  | 200  | 200  | 200  |
| 35°   | 209  | 218  | 245  | 236  | 241  | 241  | 241  | 236  | 245  | 236  |
| 37.5° | 259  | 277  | 314  | 295  | 300  | 300  | 309  | 305  | 314  | 309  |
| 40°   | 318  | 364  | 400  | 368  | 377  | 377  | 396  | 405  | 405  | 400  |
| 42.5° | 386  | 455  | 514  | 482  | 496  | 491  | 514  | 514  | 514  | 518  |
| 45°   | 409  | 514  | 586  | 564  | 577  | 577  | 596  | 577  | 568  | 573  |
| 47.5° | 441  | 596  | 668  | 641  | 650  | 668  | 677  | 636  | 596  | 591  |
| 50°   | 518  | 723  | 782  | 755  | 759  | 782  | 773  | 718  | 650  | 655  |
| 52.5° | 646  | 805  | 932  | 905  | 896  | 932  | 923  | 809  | 750  | 755  |
| 55°   | 732  | 864  | 1050 | 1009 | 1027 | 1055 | 1118 | 941  | 909  | 909  |
| 57.5° | 868  | 959  | 1173 | 1114 | 1173 | 1173 | 1264 | 1096 | 1050 | 1055 |
| 60°   | 1332 | 1196 | 1573 | 1468 | 1500 | 1473 | 1664 | 1496 | 1391 | 1382 |
| 62.5° | 2132 | 1646 | 2300 | 2191 | 2173 | 2128 | 2405 | 2318 | 2173 | 2173 |
| 65°   | 2959 | 1955 | 2882 | 2755 | 2696 | 2669 | 2973 | 3032 | 2805 | 2800 |
| 67.5° | 3432 | 2105 | 3219 | 3041 | 2996 | 3005 | 3319 | 3455 | 3132 | 3173 |
| 70°   | 3682 | 2137 | 3269 | 3105 | 3046 | 3100 | 3437 | 3569 | 3305 | 3364 |
| 72.5° | 3705 | 2128 | 3150 | 3019 | 2955 | 3046 | 3323 | 3500 | 3341 | 3373 |
| 75°   | 3378 | 1982 | 2823 | 2750 | 2659 | 2759 | 2991 | 3219 | 3123 | 3073 |
| 77.5° | 2755 | 1705 | 2341 | 2314 | 2237 | 2309 | 2537 | 2755 | 2705 | 2609 |
| 80°   | 1950 | 1277 | 1646 | 1646 | 1587 | 1641 | 1823 | 2018 | 2014 | 1918 |
| 82.5° | 1177 | 809  | 991  | 977  | 927  | 973  | 1096 | 1246 | 1291 | 1255 |
| 85°   | 655  | 486  | 573  | 518  | 491  | 523  | 605  | 686  | 727  | 718  |
| 87.5° | 423  | 323  | 368  | 350  | 327  | 346  | 377  | 423  | 427  | 418  |
| 90°   | 323  | 245  | 273  | 273  | 268  | 273  | 295  | 323  | 318  | 300  |
| 95°   | 195  | 164  | 186  | 191  | 191  | 195  | 218  | 236  | 232  | 218  |
| 105°  | 105  | 100  | 127  | 118  | 132  | 136  | 155  | 164  | 159  | 155  |
| 115°  | 55   | 55   | 82   | 86   | 86   | 86   | 91   | 95   | 82   | 82   |
| 125°  | 27   | 41   | 50   | 45   | 50   | 55   | 59   | 50   | 50   | 45   |
| 135°  | 23   | 23   | 27   | 23   | 32   | 32   | 32   | 27   | 27   | 27   |
| 145°  | 9    | 0    | 9    | 9    | 5    | 9    | 9    | 9    | 9    | 9    |
| 155°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 165°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



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**CANDELA DISTRIBUTION (continued):**

|      | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)