

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: 768947\_150MP

Luminaire Tested: **CLB15PXX3C16X**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-46-04  
Report Number: 768947\_150MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CLB15PXX3C16X  
Description: CUTOFF GENERATIONS POST TOP TYPE III W/CAGE  
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN  
Ballast/Driver: -

### Summary

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 7791.7 lumens  
Efficiency: 55.7%  
Efficacy: 42.1 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B3 - U3 - G3

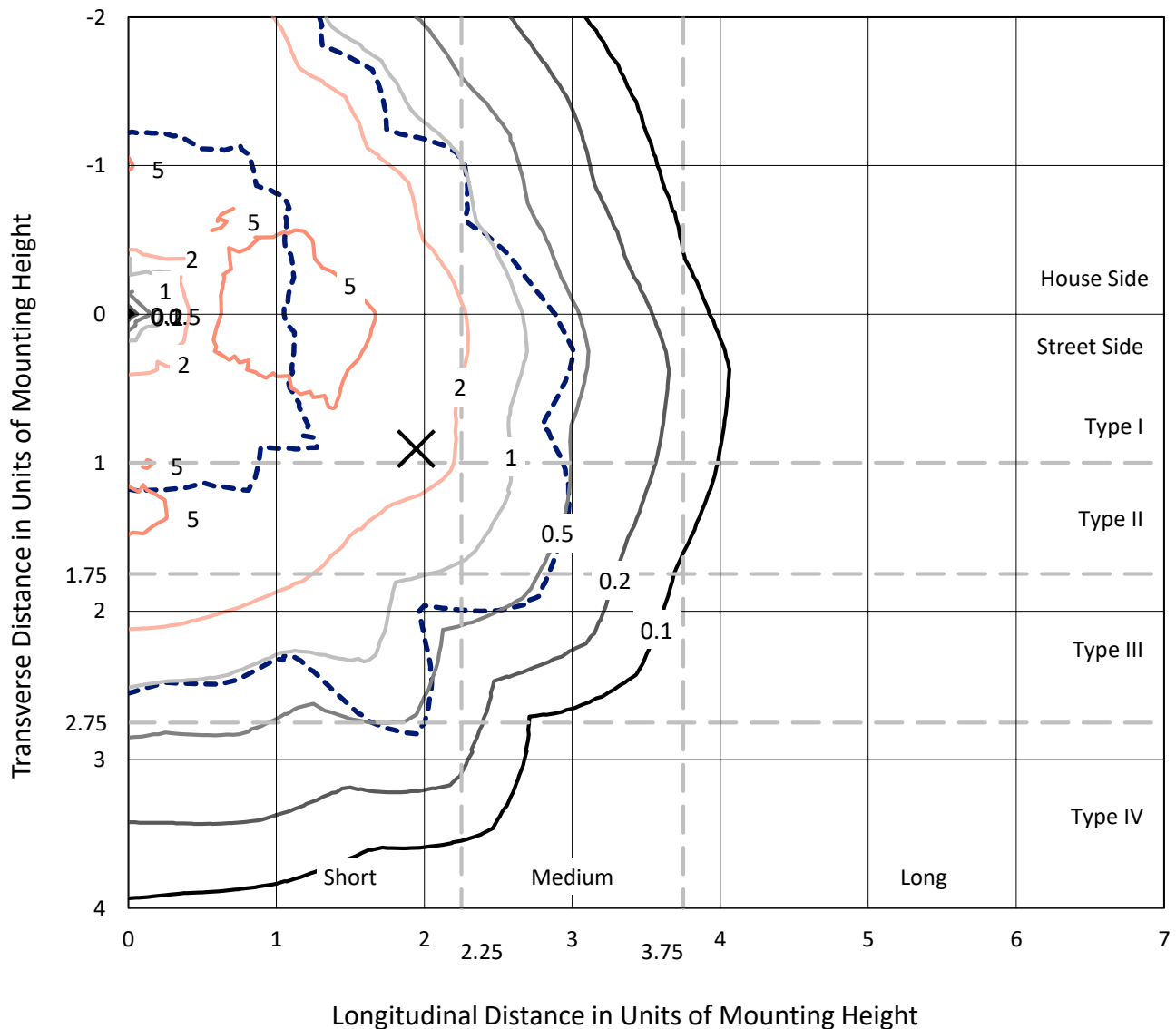
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

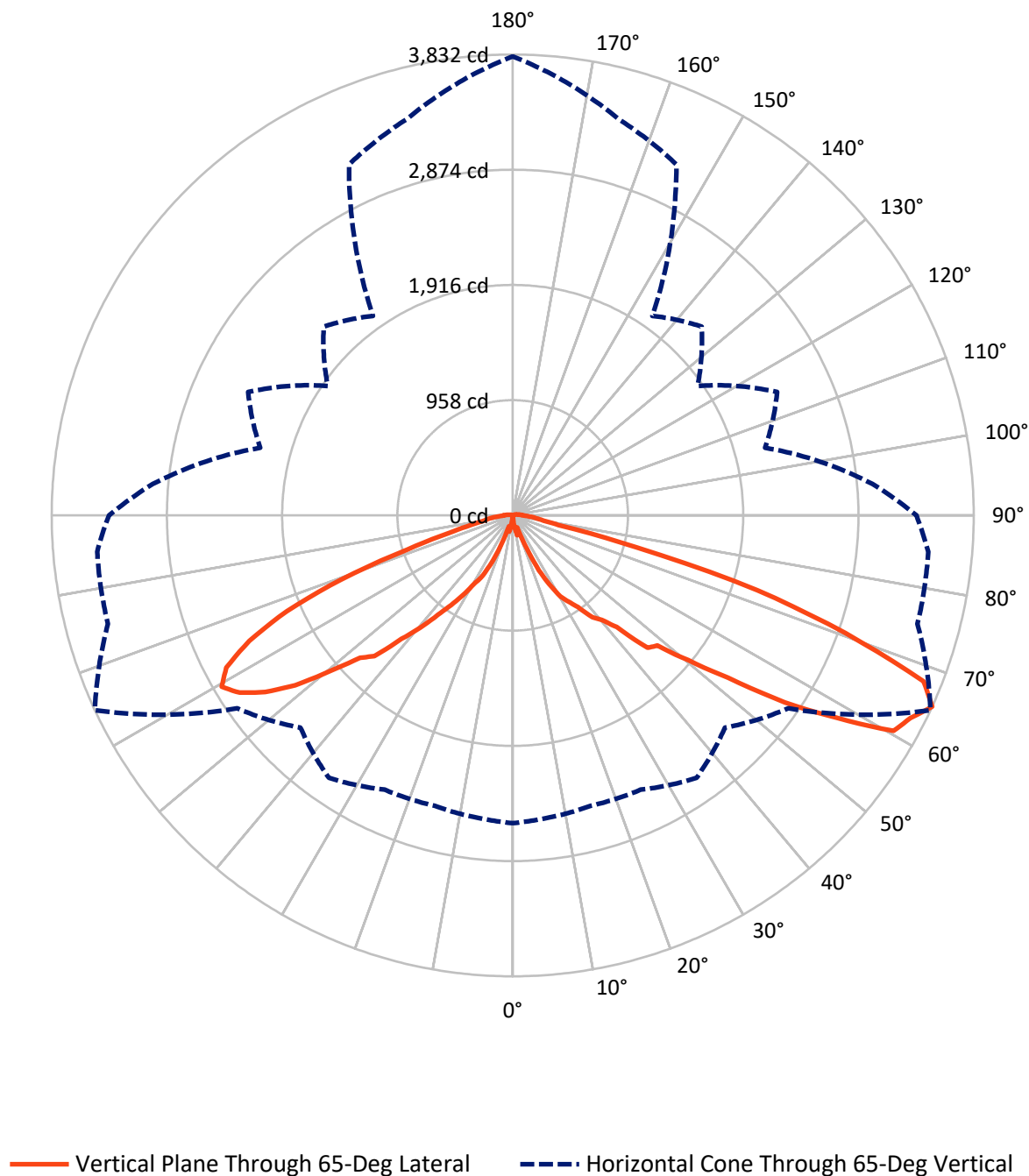
× Max cd  
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
Type III - Short - Cutoff

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## Luminous Intensity Polar Plot



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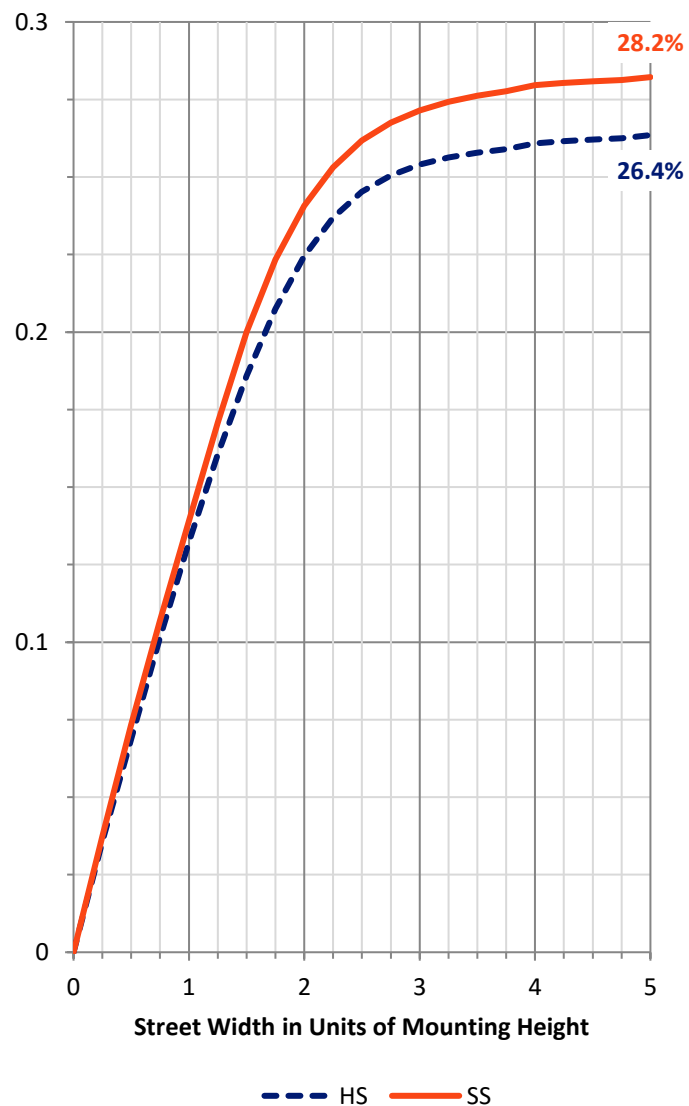
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total  |
|--------------------|--------|----------|--------|--------|
| <b>House Side</b>  | Lumens | 3717.0   | 37.8   | 3754.7 |
|                    | % Lamp | 26.5     | 0.3    | 26.8   |
| <b>Street Side</b> | Lumens | 3984.3   | 52.6   | 4036.9 |
|                    | % Lamp | 28.5     | 0.4    | 28.8   |
| <b>Total</b>       | Lumens | 7701.3   | 90.4   | 7791.7 |
|                    | % Lamp | 55.0     | 0.6    | 55.7   |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 4.5    | 0.1       | 0.0    |
| 10°-20°   | 35.7   | 0.5       | 0.3    |
| 20°-30°   | 175.7  | 2.3       | 1.3    |
| 30°-40°   | 516.7  | 6.6       | 3.7    |
| 40°-50°   | 1047.0 | 13.4      | 7.5    |
| 50°-60°   | 2173.0 | 27.9      | 15.5   |
| 60°-70°   | 2650.0 | 34.0      | 18.9   |
| 70°-80°   | 943.1  | 12.1      | 6.7    |
| 80°-90°   | 155.6  | 2.0       | 1.1    |
| 90°-100°  | 57.3   | 0.7       | 0.4    |
| 100°-110° | 25.4   | 0.3       | 0.2    |
| 110°-120° | 8.8    | 0.1       | 0.1    |
| 120°-130° | 2.5    | 0.0       | 0.0    |
| 130°-140° | 0.4    | 0.0       | 0.0    |
| 140°-150° | 0.0    | 0.0       | 0.0    |
| 150°-160° | 0.0    | 0.0       | 0.0    |
| 160°-170° | 0.0    | 0.0       | 0.0    |
| 170°-180° | 0.0    | 0.0       | 0.0    |
| 0°-90°    | 7701.3 | 98.8      | 55.0   |
| 0°-180°   | 7791.7 | 100.0     | 55.7   |

**Coefficient of Utilization**



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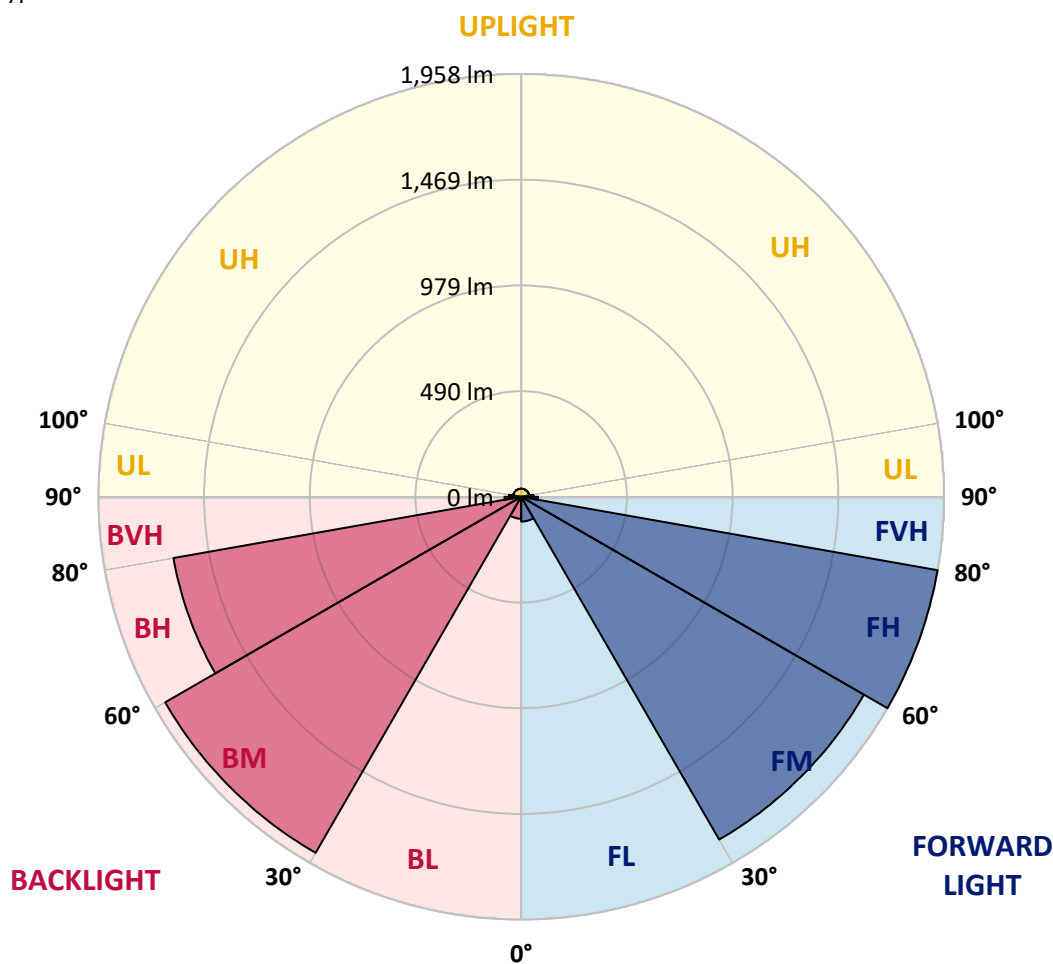
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |        |         |
|---------------|-------------|--------|--------|-------------------------|--------|---------|
|               |             |        |        | B                       | U      | G       |
| FL            | (0°-30°)    | 114.6  | 0.8    |                         |        |         |
| FM            | (30°-60°)   | 1832.9 | 13.1   |                         |        |         |
| FH            | (60°-80°)   | 1958.1 | 14.0   |                         |        | G2/5000 |
| FVH           | (80°-90°)   | 78.7   | 0.6    |                         |        | G1/100  |
| BL            | (0°-30°)    | 101.3  | 0.7    | B0/110                  |        |         |
| BM            | (30°-60°)   | 1903.8 | 13.6   | B2/2500                 |        |         |
| BH            | (60°-80°)   | 1635.0 | 11.7   | B3/2500                 |        | G3/2500 |
| BVH           | (80°-90°)   | 76.9   | 0.5    |                         |        | G1/100  |
| UL            | (90°-100°)  | 57.3   | 0.4    |                         | U3/500 |         |
| UH            | (100°-180°) | 37.8   | 0.3    |                         | U2/50  |         |
| Trapped Light |             | 6208.3 | 44.3   |                         |        |         |

**BUG Rating: B3-U3-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 2.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 5°    | 21   | 26   | 26   | 26   | 21   | 21   | 21   | 21   | 16   | 11   | 11   |
| 7.5°  | 63   | 58   | 63   | 69   | 63   | 63   | 58   | 69   | 58   | 53   | 48   |
| 10°   | 106  | 100  | 111  | 127  | 127  | 132  | 132  | 122  | 111  | 111  | 106  |
| 12.5° | 159  | 169  | 180  | 190  | 185  | 185  | 174  | 169  | 153  | 137  | 137  |
| 15°   | 190  | 185  | 196  | 190  | 185  | 185  | 159  | 164  | 143  | 137  | 127  |
| 17.5° | 180  | 180  | 180  | 164  | 169  | 148  | 132  | 132  | 122  | 106  | 106  |
| 20°   | 169  | 159  | 148  | 137  | 127  | 116  | 111  | 106  | 106  | 106  | 100  |
| 22.5° | 243  | 233  | 243  | 254  | 254  | 143  | 169  | 301  | 285  | 259  | 280  |
| 25°   | 391  | 402  | 439  | 481  | 296  | 143  | 317  | 507  | 518  | 428  | 486  |
| 27.5° | 507  | 492  | 529  | 560  | 354  | 190  | 412  | 645  | 640  | 629  | 640  |
| 30°   | 592  | 603  | 603  | 629  | 381  | 666  | 476  | 782  | 777  | 719  | 735  |
| 32.5° | 677  | 703  | 677  | 761  | 386  | 798  | 513  | 856  | 883  | 867  | 840  |
| 35°   | 793  | 809  | 803  | 856  | 328  | 899  | 571  | 936  | 957  | 962  | 930  |
| 37.5° | 877  | 957  | 930  | 941  | 344  | 946  | 645  | 1073 | 1078 | 1073 | 1031 |
| 40°   | 930  | 1062 | 999  | 1073 | 381  | 1062 | 629  | 1142 | 1184 | 1195 | 1210 |
| 42.5° | 1004 | 1179 | 1168 | 1179 | 444  | 1136 | 544  | 1269 | 1300 | 1348 | 1380 |
| 45°   | 1290 | 1438 | 1417 | 1369 | 560  | 1364 | 566  | 1570 | 1591 | 1623 | 1728 |
| 47.5° | 1491 | 1559 | 1512 | 1443 | 740  | 1390 | 661  | 1617 | 1718 | 1797 | 2009 |
| 50°   | 1956 | 1887 | 1787 | 1697 | 1010 | 1649 | 835  | 1892 | 1998 | 2077 | 2373 |
| 52.5° | 2463 | 2289 | 2183 | 2088 | 1380 | 2014 | 1099 | 2241 | 2389 | 2527 | 2838 |
| 55°   | 2833 | 2738 | 2548 | 2495 | 1834 | 2453 | 1469 | 2743 | 2764 | 3002 | 3251 |
| 57.5° | 2949 | 3018 | 2796 | 2791 | 2268 | 2770 | 1929 | 3177 | 3129 | 3430 | 3600 |
| 60°   | 2897 | 3045 | 2833 | 2838 | 2468 | 3013 | 2347 | 3637 | 3584 | 3668 | 3753 |
| 62.5° | 2706 | 2886 | 2717 | 2770 | 2659 | 3013 | 2643 | 3711 | 3732 | 3663 | 3684 |
| 65°   | 2558 | 2537 | 2500 | 2516 | 2664 | 2495 | 2796 | 3832 | 3483 | 3467 | 3356 |
| 67.5° | 2199 | 2051 | 2157 | 2088 | 2786 | 2146 | 2981 | 3684 | 2823 | 2997 | 2828 |
| 70°   | 1512 | 1417 | 1660 | 1506 | 2918 | 1919 | 2844 | 2934 | 2046 | 2310 | 2130 |
| 72.5° | 1015 | 1057 | 1258 | 1210 | 2463 | 1406 | 2246 | 2125 | 1612 | 1713 | 1464 |
| 75°   | 782  | 777  | 840  | 814  | 1417 | 661  | 1337 | 1062 | 1099 | 1031 | 777  |
| 77.5° | 391  | 333  | 375  | 396  | 597  | 338  | 523  | 391  | 449  | 428  | 375  |
| 80°   | 211  | 217  | 254  | 307  | 259  | 196  | 296  | 259  | 322  | 270  | 243  |
| 82.5° | 159  | 148  | 169  | 217  | 148  | 137  | 148  | 201  | 201  | 206  | 201  |
| 85°   | 127  | 127  | 143  | 153  | 106  | 100  | 111  | 153  | 164  | 164  | 164  |
| 87.5° | 106  | 100  | 106  | 100  | 85   | 74   | 85   | 106  | 106  | 95   | 116  |
| 90°   | 85   | 85   | 85   | 85   | 74   | 69   | 74   | 85   | 79   | 74   | 79   |
| 95°   | 53   | 58   | 63   | 63   | 53   | 53   | 48   | 58   | 58   | 53   | 53   |
| 105°  | 21   | 26   | 32   | 26   | 21   | 21   | 21   | 26   | 21   | 21   | 16   |
| 115°  | 11   | 11   | 11   | 11   | 11   | 5    | 11   | 11   | 11   | 11   | 11   |
| 125°  | 11   | 0    | 5    | 11   | 0    | 0    | 0    | 0    | 5    | 5    | 5    |
| 135°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 145°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 155°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 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°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 2.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 5°    | 11   | 11   | 5    | 11   | 0    | 11   | 0    | 0    | 0    | 0    |
| 7.5°  | 42   | 58   | 53   | 42   | 48   | 48   | 48   | 42   | 42   | 53   |
| 10°   | 95   | 90   | 90   | 90   | 90   | 106  | 95   | 95   | 85   | 85   |
| 12.5° | 132  | 137  | 137  | 127  | 116  | 116  | 106  | 106  | 106  | 106  |
| 15°   | 122  | 127  | 132  | 127  | 111  | 106  | 79   | 90   | 85   | 95   |
| 17.5° | 100  | 106  | 106  | 95   | 85   | 79   | 74   | 69   | 74   | 63   |
| 20°   | 85   | 100  | 95   | 90   | 79   | 85   | 69   | 69   | 58   | 63   |
| 22.5° | 222  | 333  | 317  | 227  | 111  | 201  | 317  | 285  | 201  | 285  |
| 25°   | 470  | 492  | 460  | 301  | 116  | 270  | 407  | 391  | 359  | 381  |
| 27.5° | 618  | 613  | 581  | 370  | 222  | 317  | 513  | 476  | 449  | 476  |
| 30°   | 729  | 729  | 655  | 555  | 608  | 449  | 603  | 550  | 502  | 539  |
| 32.5° | 840  | 830  | 782  | 714  | 793  | 544  | 714  | 666  | 603  | 645  |
| 35°   | 983  | 951  | 904  | 814  | 877  | 645  | 825  | 745  | 703  | 751  |
| 37.5° | 1068 | 1015 | 1036 | 893  | 1052 | 782  | 936  | 846  | 782  | 825  |
| 40°   | 1237 | 1195 | 1210 | 1020 | 1136 | 925  | 1110 | 1036 | 1004 | 1036 |
| 42.5° | 1401 | 1321 | 1380 | 1052 | 1274 | 1047 | 1247 | 1152 | 1136 | 1184 |
| 45°   | 1723 | 1596 | 1639 | 1205 | 1496 | 1247 | 1427 | 1369 | 1343 | 1438 |
| 47.5° | 1913 | 1718 | 1734 | 1327 | 1549 | 1343 | 1549 | 1469 | 1459 | 1586 |
| 50°   | 2188 | 1935 | 1987 | 1591 | 1813 | 1543 | 1818 | 1739 | 1760 | 1829 |
| 52.5° | 2606 | 2220 | 2294 | 1829 | 2077 | 1723 | 2146 | 2040 | 2141 | 2083 |
| 55°   | 2965 | 2447 | 2527 | 2072 | 2278 | 1966 | 2495 | 2373 | 2569 | 2400 |
| 57.5° | 3208 | 2585 | 2706 | 2231 | 2521 | 2209 | 2897 | 2854 | 3066 | 2897 |
| 60°   | 3341 | 2664 | 2807 | 2294 | 2738 | 2405 | 3219 | 3251 | 3499 | 3393 |
| 62.5° | 3346 | 2516 | 2696 | 2188 | 2791 | 2421 | 3404 | 3467 | 3758 | 3763 |
| 65°   | 3002 | 2172 | 2426 | 1876 | 2220 | 2024 | 3219 | 3409 | 3684 | 3816 |
| 67.5° | 2490 | 1829 | 2040 | 1580 | 1755 | 1612 | 2669 | 2971 | 3150 | 3383 |
| 70°   | 1813 | 1369 | 1522 | 1263 | 1364 | 1195 | 1713 | 2030 | 2199 | 2474 |
| 72.5° | 1094 | 851  | 920  | 856  | 877  | 772  | 957  | 1184 | 1321 | 1480 |
| 75°   | 618  | 555  | 550  | 518  | 492  | 444  | 571  | 708  | 798  | 856  |
| 77.5° | 381  | 370  | 354  | 296  | 254  | 254  | 370  | 444  | 476  | 507  |
| 80°   | 254  | 259  | 243  | 190  | 159  | 180  | 264  | 307  | 317  | 317  |
| 82.5° | 190  | 196  | 201  | 148  | 116  | 143  | 211  | 222  | 227  | 243  |
| 85°   | 153  | 159  | 159  | 106  | 90   | 106  | 164  | 164  | 159  | 159  |
| 87.5° | 90   | 95   | 95   | 74   | 63   | 74   | 90   | 90   | 85   | 95   |
| 90°   | 74   | 74   | 79   | 63   | 58   | 58   | 69   | 74   | 63   | 74   |
| 95°   | 48   | 53   | 53   | 42   | 42   | 42   | 42   | 42   | 42   | 42   |
| 105°  | 16   | 21   | 21   | 11   | 11   | 11   | 11   | 16   | 11   | 11   |
| 115°  | 11   | 5    | 5    | 11   | 0    | 0    | 5    | 0    | 0    | 11   |
| 125°  | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 135°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 145°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 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)