

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: P140400

Luminaire Tested: **MEM-E03-LED-E-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140400  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM-E03-LED-E-U-5MQ  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9161.3 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

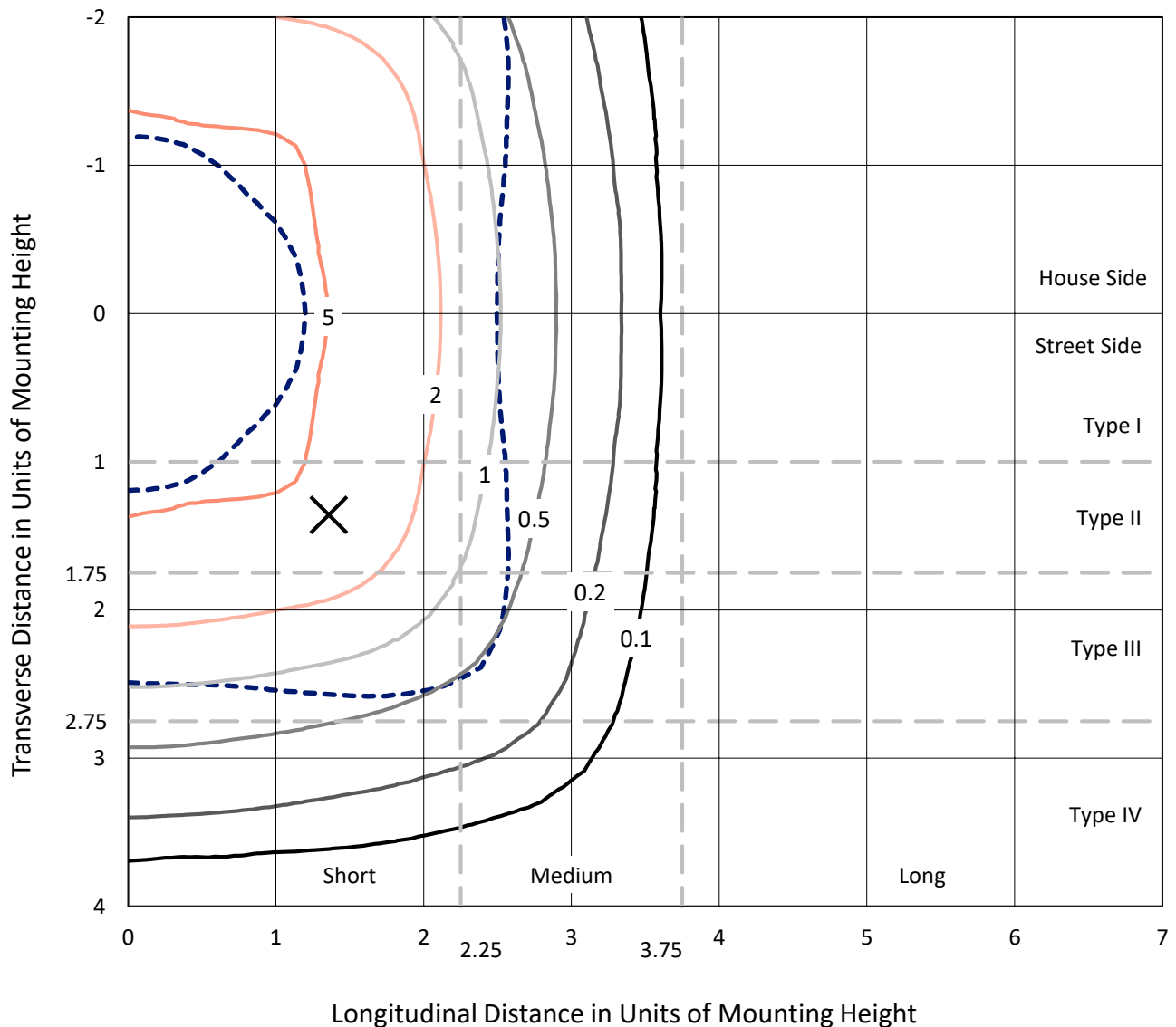


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

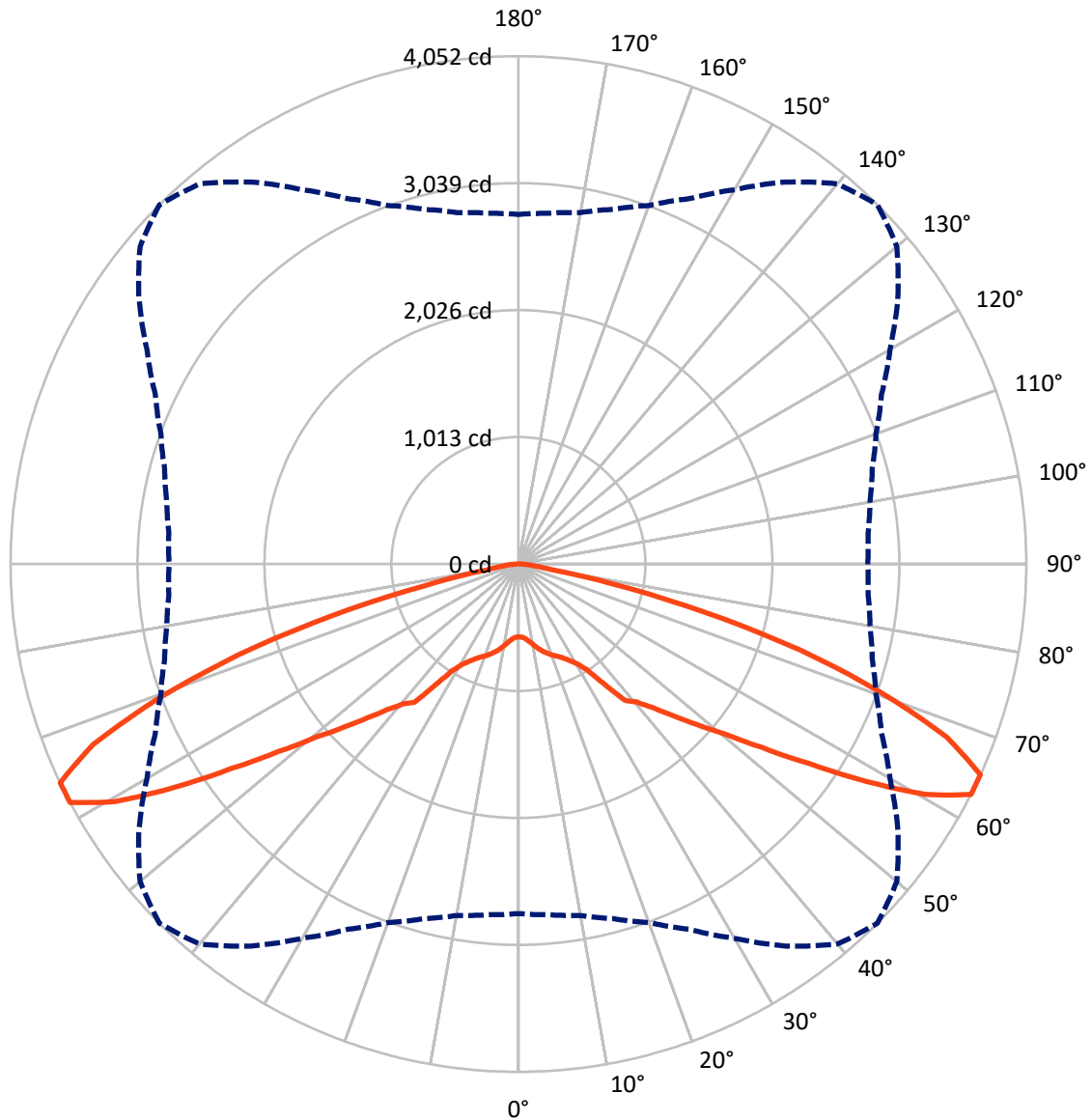


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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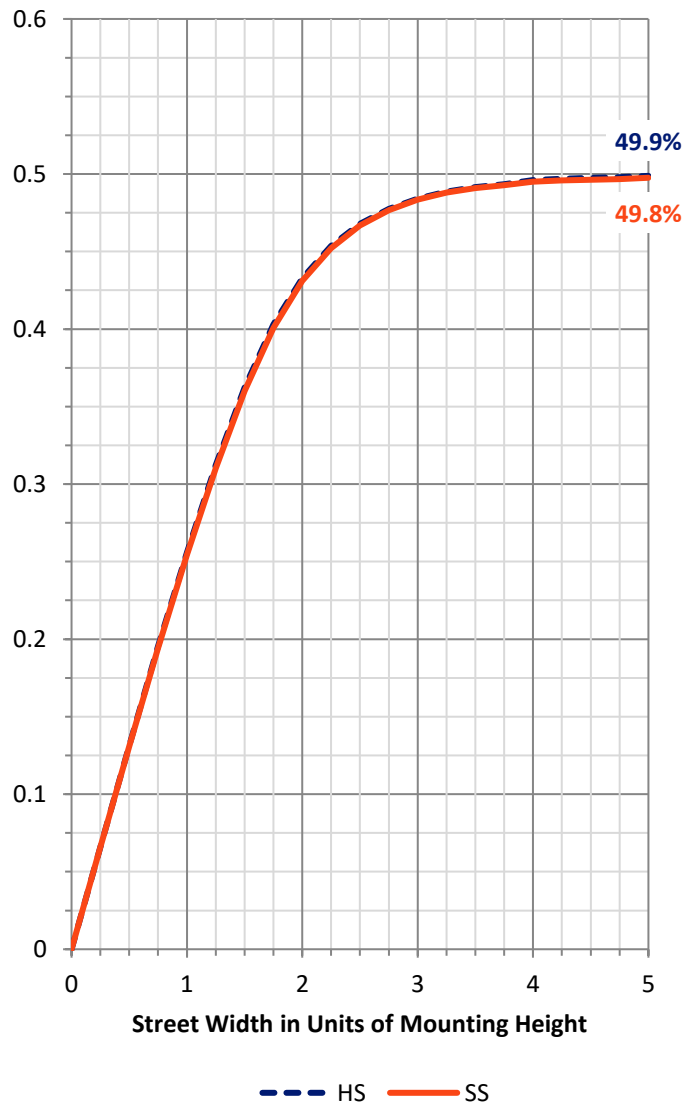
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4580.7   | 0.0    | 4580.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4580.7   | 0.0    | 4580.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9161.3   | 0.0    | 9161.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.1   | 0.6       |
| 10°-20°   | 205.8  | 2.2       |
| 20°-30°   | 395.4  | 4.3       |
| 30°-40°   | 760.7  | 8.3       |
| 40°-50°   | 1324.0 | 14.5      |
| 50°-60°   | 2378.0 | 26.0      |
| 60°-70°   | 2915.1 | 31.8      |
| 70°-80°   | 1028.0 | 11.2      |
| 80°-90°   | 95.1   | 1.0       |
| 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°    | 9161.3 | 100.0     |
| 0°-180°   | 9161.3 | 100.0     |

**Coefficient of Utilization**



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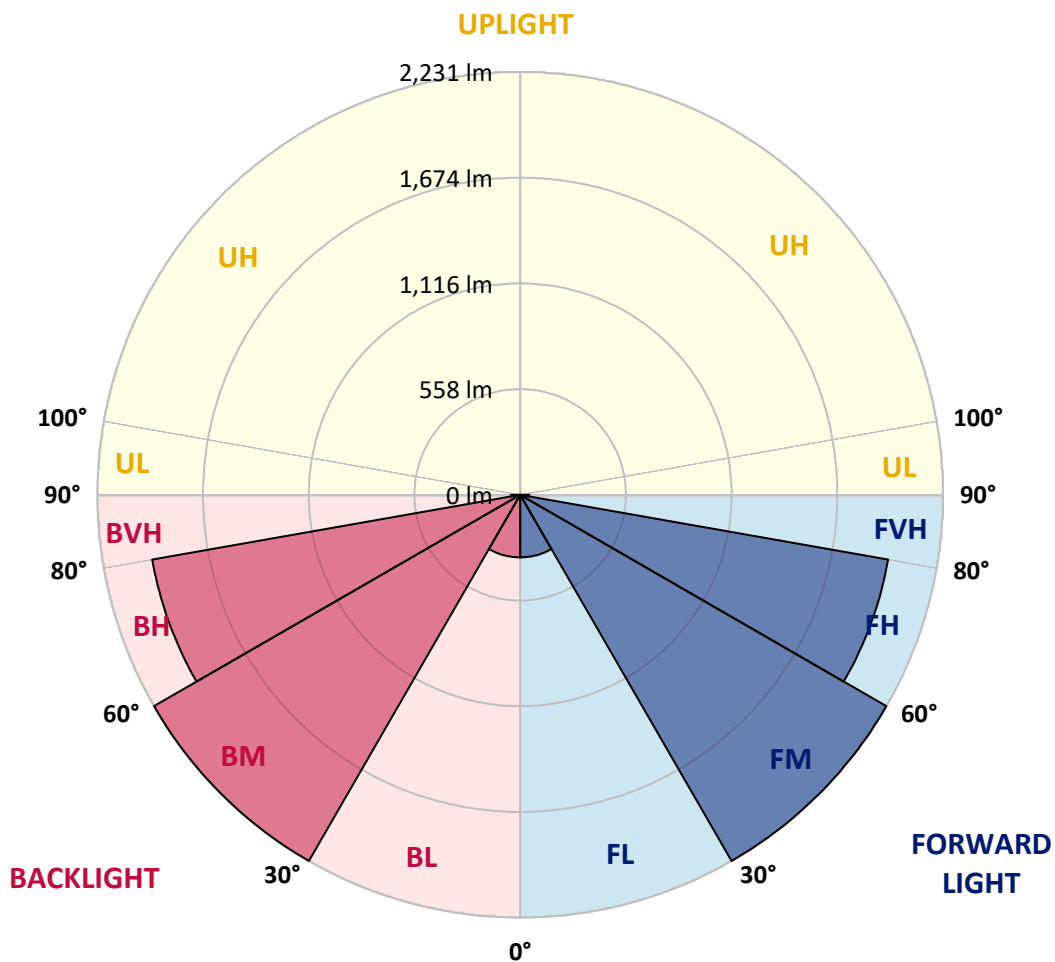
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 330.2  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 2231.4 | 24.4      |                         |      |         |
| FH   | (60°-80°)   | 1971.6 | 21.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 47.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 330.2  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2231.4 | 24.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1971.6 | 21.5      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 47.5   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 581  | 581  | 581  | 581  | 581  | 581  | 581  | 581  | 581  | 581  | 581  |
| 2.5°  | 588  | 588  | 587  | 586  | 586  | 586  | 585  | 585  | 586  | 584  | 584  |
| 5°    | 603  | 604  | 603  | 602  | 601  | 601  | 600  | 600  | 601  | 599  | 598  |
| 7.5°  | 631  | 632  | 630  | 629  | 628  | 627  | 626  | 625  | 626  | 623  | 623  |
| 10°   | 667  | 667  | 667  | 663  | 663  | 660  | 659  | 657  | 658  | 655  | 655  |
| 12.5° | 703  | 703  | 702  | 700  | 699  | 697  | 695  | 695  | 693  | 689  | 687  |
| 15°   | 735  | 736  | 735  | 732  | 731  | 728  | 728  | 726  | 723  | 721  | 719  |
| 17.5° | 765  | 766  | 763  | 762  | 759  | 757  | 755  | 754  | 752  | 749  | 748  |
| 20°   | 794  | 793  | 790  | 786  | 784  | 782  | 780  | 779  | 778  | 776  | 776  |
| 22.5° | 822  | 822  | 819  | 813  | 809  | 807  | 804  | 802  | 800  | 799  | 801  |
| 25°   | 864  | 863  | 857  | 851  | 844  | 838  | 834  | 833  | 831  | 831  | 832  |
| 27.5° | 918  | 916  | 907  | 899  | 891  | 883  | 878  | 874  | 873  | 872  | 872  |
| 30°   | 986  | 983  | 975  | 965  | 956  | 946  | 936  | 933  | 928  | 924  | 931  |
| 32.5° | 1116 | 1118 | 1102 | 1082 | 1062 | 1043 | 1026 | 1013 | 1005 | 1006 | 1006 |
| 35°   | 1259 | 1260 | 1253 | 1245 | 1239 | 1228 | 1209 | 1193 | 1181 | 1168 | 1174 |
| 37.5° | 1321 | 1322 | 1316 | 1315 | 1319 | 1326 | 1345 | 1359 | 1380 | 1383 | 1377 |
| 40°   | 1430 | 1425 | 1417 | 1415 | 1412 | 1422 | 1430 | 1437 | 1440 | 1446 | 1440 |
| 42.5° | 1544 | 1542 | 1536 | 1529 | 1529 | 1531 | 1544 | 1555 | 1562 | 1563 | 1562 |
| 45°   | 1672 | 1669 | 1664 | 1663 | 1666 | 1675 | 1684 | 1698 | 1720 | 1721 | 1720 |
| 47.5° | 1813 | 1815 | 1807 | 1810 | 1815 | 1830 | 1855 | 1878 | 1902 | 1911 | 1900 |
| 50°   | 2006 | 1999 | 1999 | 1996 | 2009 | 2031 | 2061 | 2088 | 2122 | 2130 | 2113 |
| 52.5° | 2268 | 2253 | 2256 | 2248 | 2255 | 2275 | 2324 | 2366 | 2409 | 2430 | 2397 |
| 55°   | 2583 | 2558 | 2561 | 2569 | 2575 | 2609 | 2671 | 2719 | 2800 | 2807 | 2769 |
| 57.5° | 2841 | 2834 | 2838 | 2857 | 2895 | 2954 | 3032 | 3148 | 3248 | 3272 | 3231 |
| 60°   | 2935 | 2940 | 2968 | 3018 | 3090 | 3195 | 3347 | 3528 | 3687 | 3735 | 3673 |
| 62.5° | 2789 | 2809 | 2847 | 2930 | 3044 | 3215 | 3448 | 3721 | 3959 | 4052 | 3941 |
| 65°   | 2504 | 2517 | 2579 | 2650 | 2797 | 2993 | 3279 | 3634 | 3927 | 4050 | 3926 |
| 67.5° | 2130 | 2155 | 2209 | 2297 | 2424 | 2623 | 2923 | 3286 | 3580 | 3688 | 3579 |
| 70°   | 1710 | 1721 | 1755 | 1824 | 1956 | 2132 | 2389 | 2714 | 3000 | 3068 | 2981 |
| 72.5° | 1186 | 1208 | 1237 | 1300 | 1383 | 1532 | 1744 | 1983 | 2213 | 2354 | 2226 |
| 75°   | 511  | 482  | 546  | 609  | 711  | 849  | 1015 | 1211 | 1439 | 1533 | 1407 |
| 77.5° | 153  | 152  | 162  | 180  | 216  | 286  | 401  | 533  | 709  | 770  | 661  |
| 80°   | 125  | 129  | 133  | 137  | 141  | 146  | 155  | 181  | 222  | 262  | 213  |
| 82.5° | 106  | 111  | 122  | 128  | 131  | 132  | 132  | 131  | 126  | 124  | 123  |
| 85°   | 80   | 88   | 103  | 112  | 112  | 112  | 112  | 109  | 102  | 90   | 100  |
| 87.5° | 27   | 36   | 60   | 64   | 66   | 61   | 64   | 65   | 54   | 41   | 52   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|
| 0°    | 581  | 581  | 581  | 581  | 581  | 581  | 581  | 581  |
| 2.5°  | 584  | 584  | 584  | 585  | 584  | 584  | 584  | 584  |
| 5°    | 599  | 598  | 599  | 598  | 599  | 599  | 598  | 599  |
| 7.5°  | 622  | 622  | 623  | 623  | 622  | 622  | 622  | 622  |
| 10°   | 653  | 651  | 652  | 652  | 652  | 651  | 651  | 650  |
| 12.5° | 685  | 683  | 683  | 683  | 683  | 682  | 683  | 683  |
| 15°   | 715  | 713  | 711  | 711  | 712  | 713  | 713  | 712  |
| 17.5° | 744  | 742  | 739  | 739  | 738  | 740  | 742  | 741  |
| 20°   | 773  | 772  | 767  | 767  | 767  | 769  | 770  | 773  |
| 22.5° | 802  | 801  | 797  | 796  | 797  | 801  | 804  | 804  |
| 25°   | 833  | 835  | 834  | 834  | 836  | 842  | 845  | 849  |
| 27.5° | 877  | 881  | 882  | 886  | 887  | 894  | 899  | 905  |
| 30°   | 934  | 941  | 945  | 952  | 957  | 961  | 968  | 973  |
| 32.5° | 1013 | 1030 | 1050 | 1073 | 1083 | 1101 | 1109 | 1111 |
| 35°   | 1195 | 1213 | 1230 | 1240 | 1236 | 1241 | 1241 | 1245 |
| 37.5° | 1359 | 1341 | 1326 | 1323 | 1315 | 1312 | 1313 | 1316 |
| 40°   | 1435 | 1426 | 1420 | 1423 | 1419 | 1416 | 1418 | 1419 |
| 42.5° | 1558 | 1544 | 1539 | 1538 | 1536 | 1538 | 1543 | 1541 |
| 45°   | 1702 | 1684 | 1677 | 1676 | 1673 | 1672 | 1674 | 1678 |
| 47.5° | 1875 | 1853 | 1831 | 1824 | 1824 | 1818 | 1822 | 1816 |
| 50°   | 2087 | 2051 | 2028 | 2015 | 2007 | 1998 | 2006 | 1993 |
| 52.5° | 2366 | 2315 | 2290 | 2273 | 2250 | 2251 | 2253 | 2248 |
| 55°   | 2718 | 2662 | 2613 | 2580 | 2566 | 2558 | 2556 | 2572 |
| 57.5° | 3123 | 3024 | 2946 | 2888 | 2866 | 2836 | 2822 | 2822 |
| 60°   | 3508 | 3328 | 3173 | 3076 | 3004 | 2953 | 2919 | 2909 |
| 62.5° | 3696 | 3423 | 3196 | 3036 | 2922 | 2849 | 2800 | 2787 |
| 65°   | 3615 | 3268 | 3001 | 2821 | 2689 | 2595 | 2538 | 2522 |
| 67.5° | 3289 | 2926 | 2645 | 2464 | 2322 | 2220 | 2177 | 2159 |
| 70°   | 2731 | 2398 | 2154 | 1977 | 1829 | 1743 | 1684 | 1660 |
| 72.5° | 1963 | 1710 | 1486 | 1334 | 1201 | 1156 | 1076 | 1068 |
| 75°   | 1160 | 940  | 755  | 639  | 520  | 455  | 418  | 378  |
| 77.5° | 472  | 337  | 253  | 191  | 164  | 149  | 142  | 140  |
| 80°   | 161  | 144  | 136  | 133  | 129  | 127  | 122  | 118  |
| 82.5° | 127  | 126  | 122  | 121  | 117  | 111  | 101  | 95   |
| 85°   | 106  | 104  | 99   | 98   | 95   | 87   | 76   | 69   |
| 87.5° | 60   | 55   | 50   | 51   | 48   | 42   | 31   | 22   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)