

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: P147581

Luminaire Tested: **AVS-E03-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P147581  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-E03-LED-E-U-5MQ-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9923.8 lumens  
Efficiency: N/A  
Efficacy: 132.0 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 (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

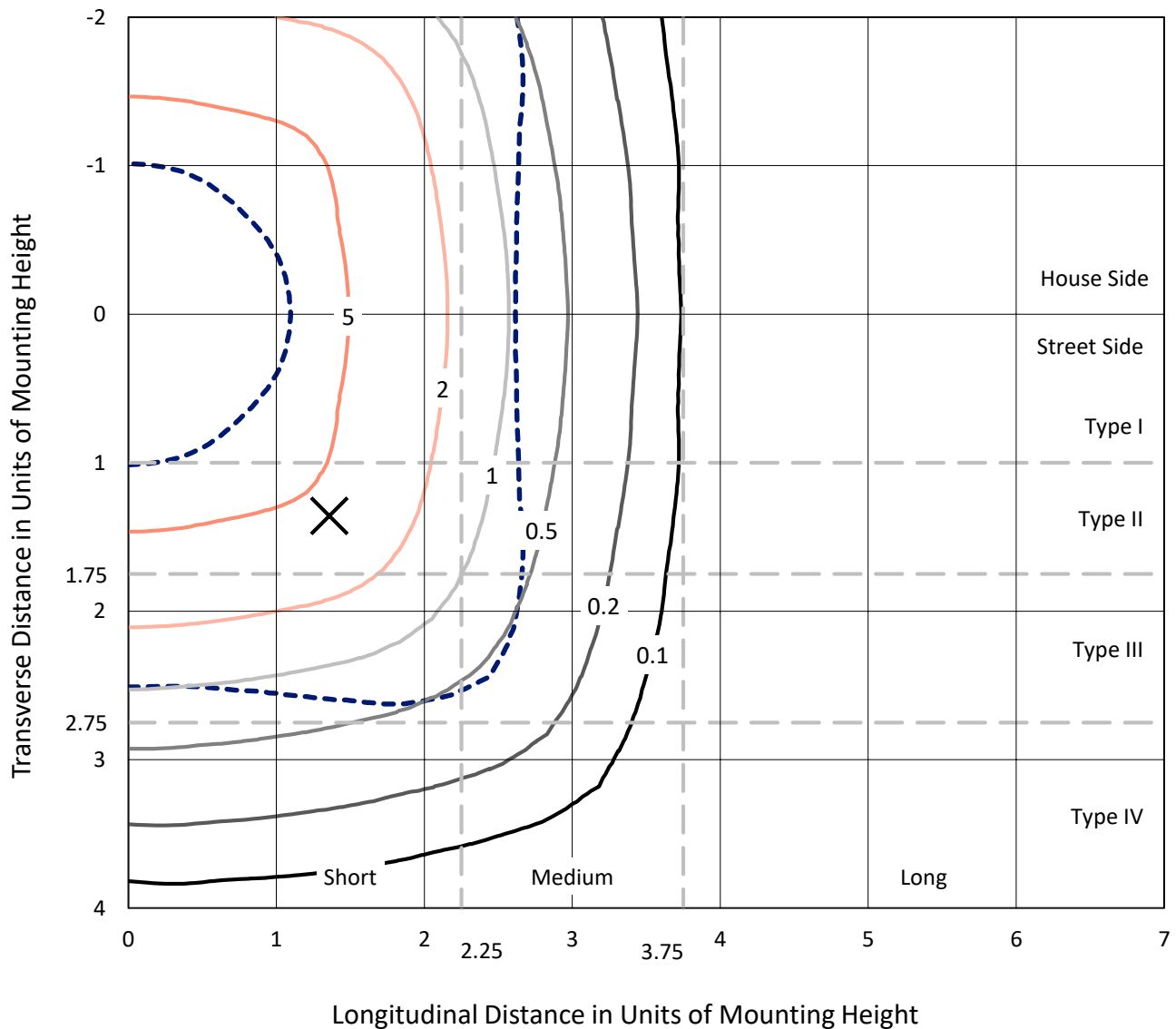


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

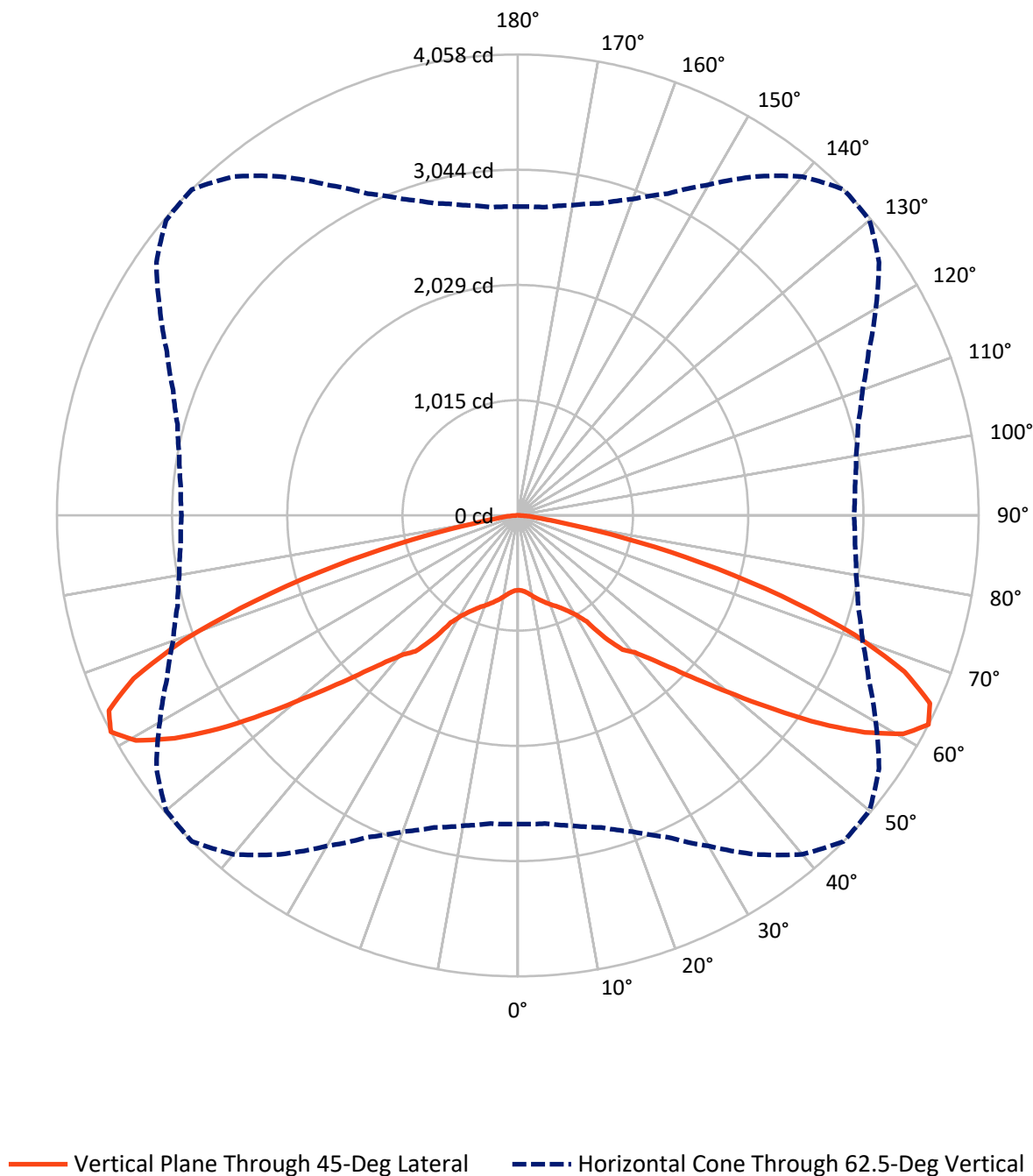


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4961.9   | 0.0    | 4961.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4961.9   | 0.0    | 4961.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9923.8   | 0.0    | 9923.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.0   | 0.7       |
| 10°-20°   | 223.2  | 2.2       |
| 20°-30°   | 431.5  | 4.3       |
| 30°-40°   | 835.4  | 8.4       |
| 40°-50°   | 1508.4 | 15.2      |
| 50°-60°   | 2623.0 | 26.4      |
| 60°-70°   | 2977.7 | 30.0      |
| 70°-80°   | 1154.4 | 11.6      |
| 80°-90°   | 104.2  | 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°    | 9923.8 | 100.0     |
| 0°-180°   | 9923.8 | 100.0     |

**Coefficient of Utilization**



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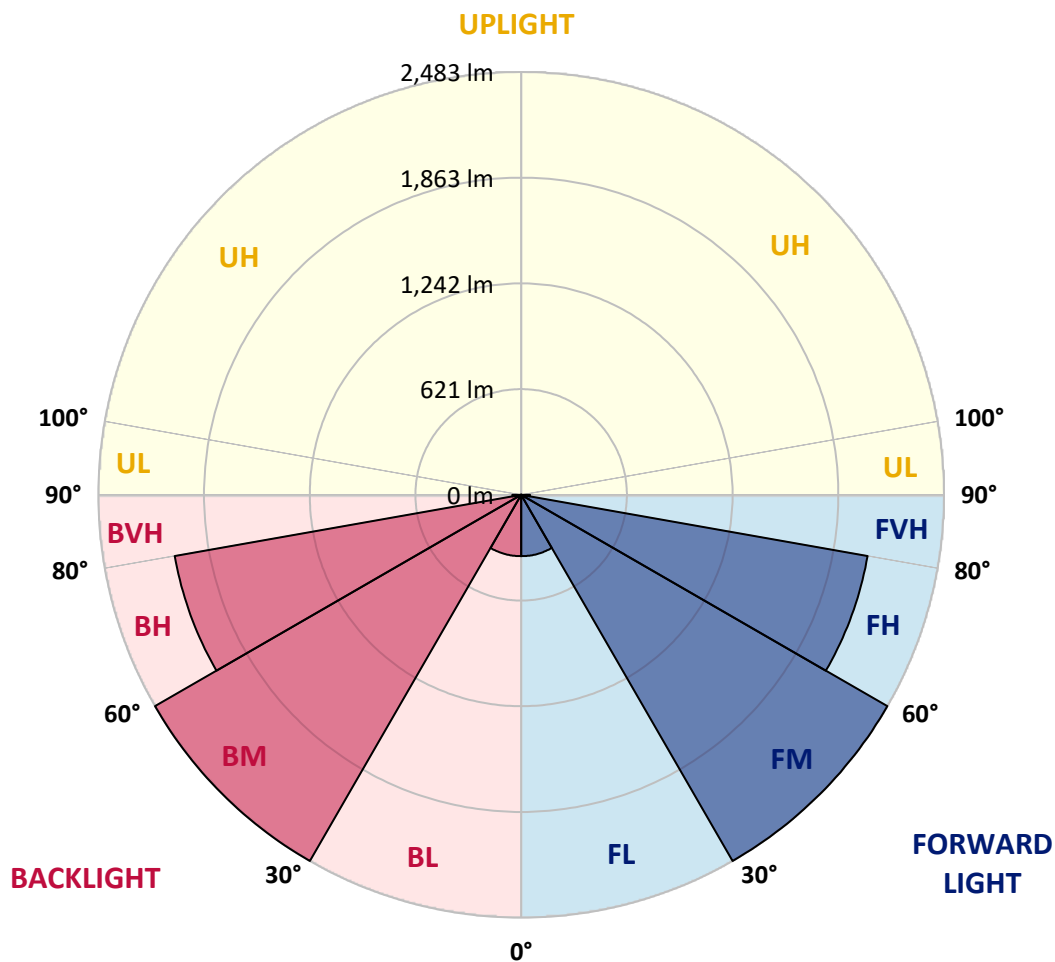
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 360.3  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 2483.4 | 25.0      |                         |      |         |
| FH   | (60°-80°)   | 2066.1 | 20.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 52.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 360.3  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2483.4 | 25.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2066.1 | 20.8      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 52.1   | 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°    | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  |
| 2.5°  | 662.8  | 664.9  | 664.5  | 663.4  | 663.4  | 663.4  | 662.9  | 661.3  | 660.7  | 661.8  | 662.8  |
| 5°    | 678.2  | 678.2  | 678.2  | 678.2  | 677.3  | 677.3  | 676.3  | 675.2  | 675.6  | 674.6  | 674.2  |
| 7.5°  | 701.9  | 700.3  | 700.3  | 699.8  | 699.8  | 698.8  | 697.2  | 695.2  | 695.8  | 695.1  | 694.7  |
| 10°   | 729.5  | 730.1  | 728.5  | 730.1  | 727.5  | 727.0  | 725.0  | 723.9  | 723.4  | 721.9  | 721.9  |
| 12.5° | 762.9  | 761.3  | 761.3  | 760.4  | 759.4  | 758.3  | 755.2  | 754.6  | 752.6  | 751.6  | 750.1  |
| 15°   | 794.2  | 793.7  | 791.6  | 789.6  | 789.0  | 788.0  | 784.5  | 782.4  | 782.0  | 779.3  | 777.2  |
| 17.5° | 825.5  | 824.5  | 822.0  | 820.9  | 818.9  | 817.3  | 814.2  | 811.2  | 809.5  | 808.6  | 806.0  |
| 20°   | 858.9  | 857.8  | 855.3  | 853.3  | 850.6  | 848.6  | 843.9  | 841.3  | 839.9  | 838.3  | 836.3  |
| 22.5° | 900.4  | 898.4  | 894.3  | 890.7  | 885.0  | 882.9  | 876.8  | 873.2  | 870.7  | 868.6  | 867.6  |
| 25°   | 945.6  | 946.1  | 940.4  | 935.8  | 929.1  | 923.5  | 915.9  | 911.7  | 909.1  | 907.0  | 906.5  |
| 27.5° | 1002.0 | 1002.5 | 997.3  | 990.7  | 980.4  | 974.3  | 964.0  | 959.0  | 957.3  | 955.3  | 954.8  |
| 30°   | 1091.2 | 1086.6 | 1077.9 | 1067.2 | 1057.9 | 1044.6 | 1029.6 | 1024.6 | 1019.5 | 1017.8 | 1017.8 |
| 32.5° | 1255.4 | 1252.8 | 1245.7 | 1219.1 | 1206.7 | 1179.1 | 1152.7 | 1137.9 | 1121.0 | 1112.7 | 1107.7 |
| 35°   | 1370.4 | 1369.3 | 1363.7 | 1354.4 | 1346.7 | 1341.1 | 1325.7 | 1323.1 | 1320.1 | 1320.0 | 1324.1 |
| 37.5° | 1455.0 | 1448.9 | 1447.9 | 1449.3 | 1447.4 | 1448.3 | 1460.6 | 1477.6 | 1492.0 | 1499.2 | 1498.0 |
| 40°   | 1580.2 | 1571.4 | 1576.6 | 1573.1 | 1568.4 | 1567.4 | 1571.5 | 1578.1 | 1584.9 | 1584.9 | 1583.2 |
| 42.5° | 1743.8 | 1748.0 | 1750.1 | 1735.1 | 1725.4 | 1722.9 | 1732.6 | 1730.6 | 1737.2 | 1734.7 | 1728.0 |
| 45°   | 1987.0 | 1984.5 | 1980.9 | 1962.9 | 1947.6 | 1935.2 | 1937.8 | 1934.2 | 1934.7 | 1930.6 | 1925.5 |
| 47.5° | 2232.3 | 2241.0 | 2226.1 | 2217.4 | 2200.0 | 2191.3 | 2198.4 | 2192.3 | 2204.0 | 2182.6 | 2172.2 |
| 50°   | 2470.4 | 2476.5 | 2471.4 | 2459.1 | 2459.1 | 2471.3 | 2480.1 | 2491.4 | 2507.8 | 2483.2 | 2446.2 |
| 52.5° | 2665.3 | 2670.5 | 2678.1 | 2688.4 | 2713.6 | 2739.7 | 2776.6 | 2816.2 | 2847.5 | 2842.9 | 2800.8 |
| 55°   | 2784.4 | 2790.6 | 2803.3 | 2838.8 | 2883.9 | 2952.5 | 3036.3 | 3128.1 | 3200.0 | 3234.8 | 3204.0 |
| 57.5° | 2824.4 | 2829.0 | 2863.8 | 2906.5 | 2976.8 | 3078.9 | 3218.9 | 3377.4 | 3515.4 | 3603.1 | 3589.3 |
| 60°   | 2815.1 | 2815.1 | 2850.6 | 2909.0 | 3007.5 | 3143.0 | 3341.0 | 3560.6 | 3772.0 | 3903.2 | 3883.7 |
| 62.5° | 2718.1 | 2723.3 | 2774.1 | 2844.4 | 2963.3 | 3125.5 | 3361.6 | 3642.2 | 3895.1 | 4058.2 | 4042.3 |
| 65°   | 2505.7 | 2509.4 | 2564.2 | 2647.9 | 2780.7 | 2972.6 | 3230.7 | 3541.6 | 3831.5 | 3988.5 | 3958.8 |
| 67.5° | 2162.5 | 2166.1 | 2210.8 | 2305.1 | 2445.7 | 2646.4 | 2925.0 | 3267.2 | 3550.9 | 3675.0 | 3585.7 |
| 70°   | 1720.2 | 1730.6 | 1759.3 | 1859.3 | 1966.0 | 2162.5 | 2419.1 | 2761.2 | 3029.0 | 3146.5 | 3048.1 |
| 72.5° | 1172.3 | 1198.5 | 1233.4 | 1322.2 | 1424.2 | 1587.4 | 1791.5 | 2080.0 | 2294.9 | 2430.9 | 2343.1 |
| 75°   | 660.3  | 697.2  | 708.0  | 775.2  | 859.4  | 988.2  | 1137.4 | 1344.2 | 1561.2 | 1671.5 | 1565.8 |
| 77.5° | 285.2  | 315.5  | 328.8  | 360.1  | 425.9  | 479.7  | 570.6  | 710.1  | 877.8  | 955.3  | 828.6  |
| 80°   | 140.6  | 147.8  | 153.4  | 163.1  | 181.7  | 199.1  | 242.2  | 303.2  | 372.0  | 389.4  | 309.8  |
| 82.5° | 108.8  | 113.9  | 123.6  | 131.4  | 136.0  | 140.5  | 144.7  | 153.0  | 159.6  | 163.1  | 154.0  |
| 85°   | 76.5   | 83.1   | 93.9   | 102.6  | 107.8  | 111.3  | 114.9  | 117.5  | 111.3  | 101.6  | 106.7  |
| 87.5° | 20.0   | 26.1   | 36.5   | 39.5   | 44.7   | 47.3   | 46.2   | 47.7   | 43.1   | 31.3   | 34.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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°    | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  | 658.8  |
| 2.5°  | 662.4  | 661.9  | 662.4  | 662.4  | 662.4  | 661.9  | 661.9  | 661.9  |
| 5°    | 674.2  | 674.2  | 674.6  | 673.6  | 673.7  | 674.2  | 673.6  | 673.2  |
| 7.5°  | 694.1  | 693.7  | 693.7  | 693.1  | 693.7  | 693.2  | 693.1  | 692.6  |
| 10°   | 720.8  | 719.8  | 720.3  | 718.8  | 718.8  | 718.2  | 718.3  | 718.2  |
| 12.5° | 749.6  | 748.0  | 748.6  | 746.9  | 744.4  | 745.0  | 745.4  | 745.0  |
| 15°   | 777.3  | 775.8  | 774.2  | 773.2  | 771.6  | 772.1  | 772.2  | 771.6  |
| 17.5° | 805.5  | 802.5  | 801.9  | 800.3  | 799.8  | 799.8  | 799.8  | 800.3  |
| 20°   | 834.7  | 832.7  | 832.1  | 830.7  | 830.2  | 831.7  | 832.1  | 831.2  |
| 22.5° | 866.0  | 865.1  | 866.0  | 865.0  | 866.5  | 867.6  | 868.1  | 867.0  |
| 25°   | 905.5  | 904.6  | 906.1  | 909.6  | 911.7  | 912.7  | 915.2  | 914.3  |
| 27.5° | 956.4  | 955.2  | 958.9  | 964.0  | 967.0  | 972.2  | 974.8  | 975.9  |
| 30°   | 1022.0 | 1026.6 | 1028.6 | 1039.0 | 1041.0 | 1049.1 | 1049.1 | 1052.7 |
| 32.5° | 1117.4 | 1126.1 | 1141.6 | 1157.4 | 1179.5 | 1195.4 | 1195.4 | 1203.6 |
| 35°   | 1326.7 | 1330.4 | 1342.2 | 1344.7 | 1349.3 | 1354.5 | 1349.3 | 1353.5 |
| 37.5° | 1487.4 | 1471.4 | 1460.2 | 1444.2 | 1434.5 | 1434.5 | 1435.4 | 1434.5 |
| 40°   | 1569.4 | 1563.3 | 1558.1 | 1544.9 | 1542.8 | 1542.2 | 1542.2 | 1544.2 |
| 42.5° | 1716.2 | 1701.2 | 1693.1 | 1681.8 | 1678.1 | 1677.2 | 1676.7 | 1677.7 |
| 45°   | 1906.9 | 1882.9 | 1860.8 | 1849.5 | 1839.8 | 1830.6 | 1833.6 | 1833.7 |
| 47.5° | 2129.1 | 2091.7 | 2055.8 | 2036.3 | 2019.4 | 2011.6 | 2006.6 | 2005.0 |
| 50°   | 2399.6 | 2347.2 | 2301.0 | 2264.7 | 2240.0 | 2239.5 | 2242.1 | 2225.6 |
| 52.5° | 2731.0 | 2648.4 | 2590.9 | 2541.7 | 2518.5 | 2516.1 | 2507.8 | 2498.5 |
| 55°   | 3098.3 | 3000.4 | 2905.5 | 2852.6 | 2822.3 | 2805.9 | 2796.2 | 2780.7 |
| 57.5° | 3477.0 | 3345.1 | 3208.6 | 3123.9 | 3070.6 | 3033.7 | 3014.1 | 3005.5 |
| 60°   | 3768.9 | 3588.8 | 3408.7 | 3272.7 | 3184.0 | 3129.1 | 3095.2 | 3081.3 |
| 62.5° | 3883.8 | 3639.6 | 3408.7 | 3230.2 | 3102.0 | 3026.0 | 2980.3 | 2960.3 |
| 65°   | 3746.8 | 3457.4 | 3194.8 | 2997.7 | 2854.6 | 2769.9 | 2720.2 | 2698.7 |
| 67.5° | 3364.1 | 3108.6 | 2822.8 | 2626.8 | 2479.6 | 2395.9 | 2342.1 | 2326.2 |
| 70°   | 2820.3 | 2559.2 | 2286.1 | 2111.2 | 1979.9 | 1911.6 | 1855.8 | 1849.0 |
| 72.5° | 2119.4 | 1894.2 | 1660.2 | 1515.5 | 1409.8 | 1297.0 | 1268.3 | 1282.6 |
| 75°   | 1358.5 | 1147.7 | 939.5  | 809.1  | 712.5  | 604.9  | 563.4  | 573.6  |
| 77.5° | 643.3  | 498.1  | 359.6  | 278.1  | 233.4  | 199.6  | 190.8  | 185.7  |
| 80°   | 238.5  | 193.4  | 170.8  | 162.1  | 156.0  | 150.3  | 146.2  | 141.6  |
| 82.5° | 154.4  | 150.9  | 146.2  | 144.7  | 140.1  | 132.8  | 119.6  | 113.9  |
| 85°   | 115.4  | 115.4  | 109.2  | 109.8  | 106.2  | 97.0   | 84.7   | 78.0   |
| 87.5° | 33.9   | 30.3   | 27.8   | 25.7   | 25.1   | 22.6   | 16.4   | 14.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)