

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: P598582

Luminaire Tested: **PMM-SA4D-835-U-T3**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4D-835-U-T3  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21657 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 259  
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

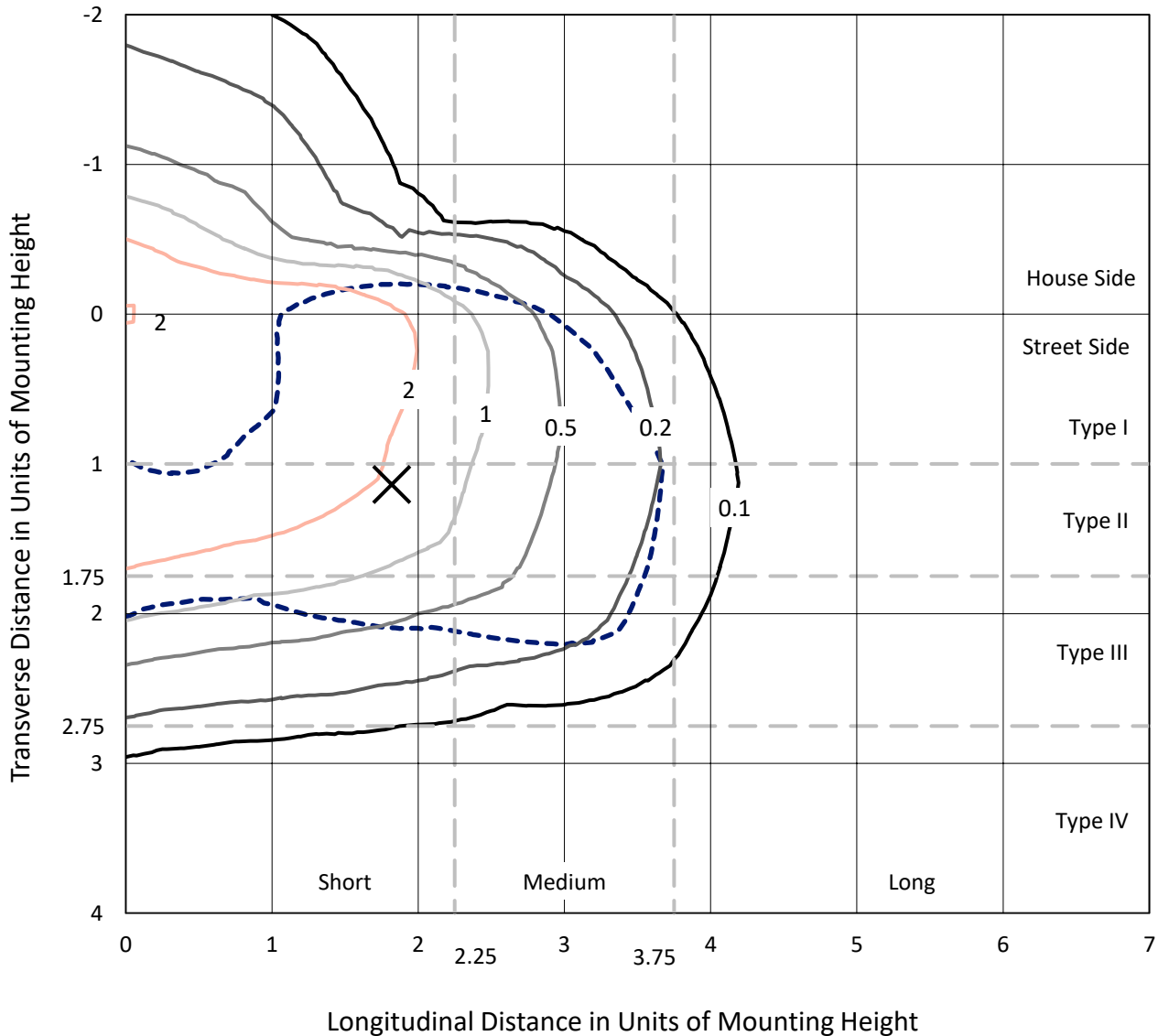


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

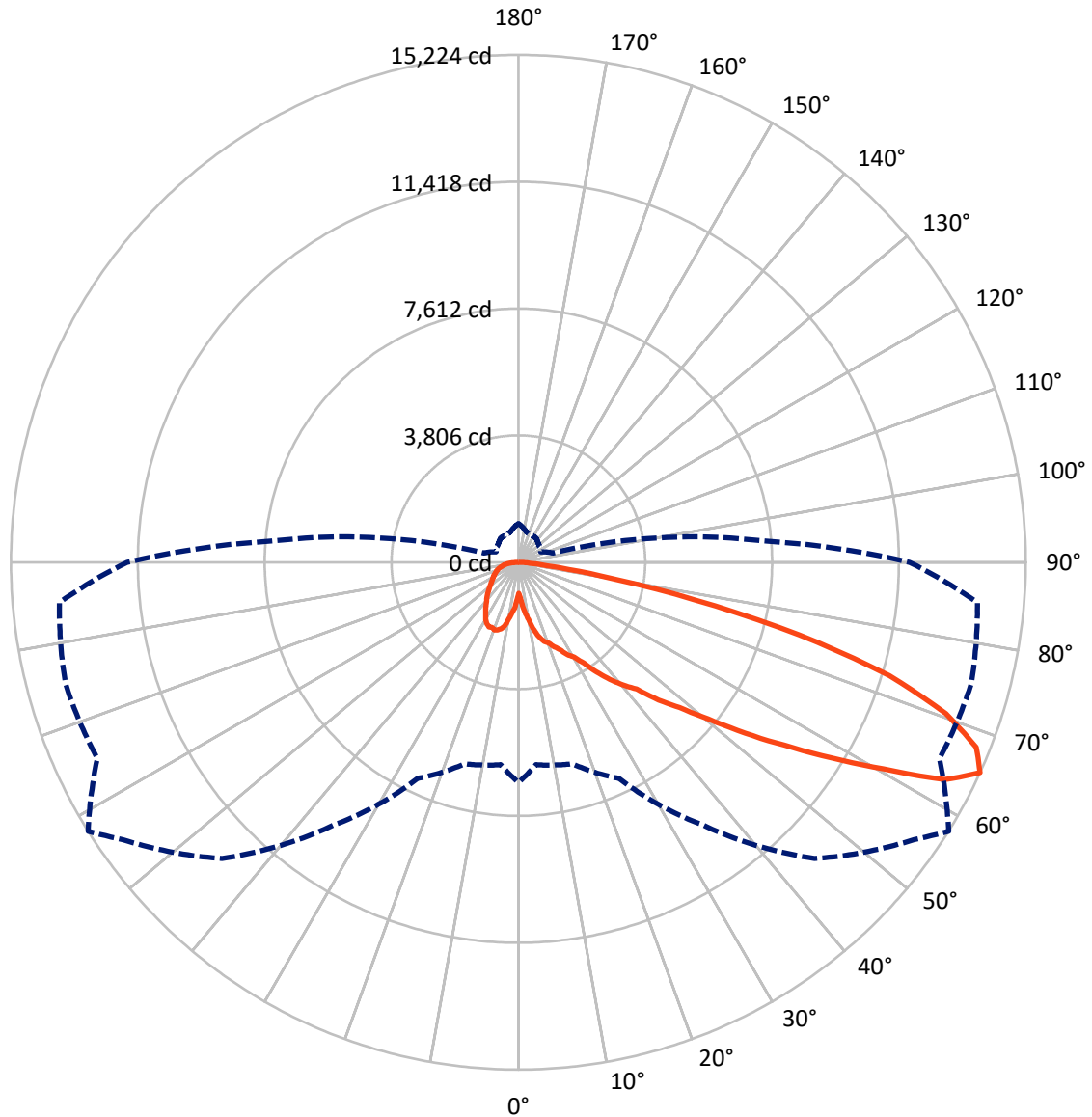


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4561.6   | 0.0    | 4561.6  |
|                    | % Fixture | 21.1     | 0.0    | 21.1    |
| <b>Street Side</b> | Lumens    | 17095.4  | 0.0    | 17095.4 |
|                    | % Fixture | 78.9     | 0.0    | 78.9    |
| <b>Total</b>       | Lumens    | 21657.0  | 0.0    | 21657.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 141.7   | 0.7       |
| 10°-20°   | 618.1   | 2.9       |
| 20°-30°   | 1186.0  | 5.5       |
| 30°-40°   | 1958.0  | 9.0       |
| 40°-50°   | 3254.4  | 15.0      |
| 50°-60°   | 5374.6  | 24.8      |
| 60°-70°   | 6029.3  | 27.8      |
| 70°-80°   | 2741.4  | 12.7      |
| 80°-90°   | 353.6   | 1.6       |
| 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°    | 21657.0 | 100.0     |
| 0°-180°   | 21657.0 | 100.0     |

**Coefficient of Utilization**



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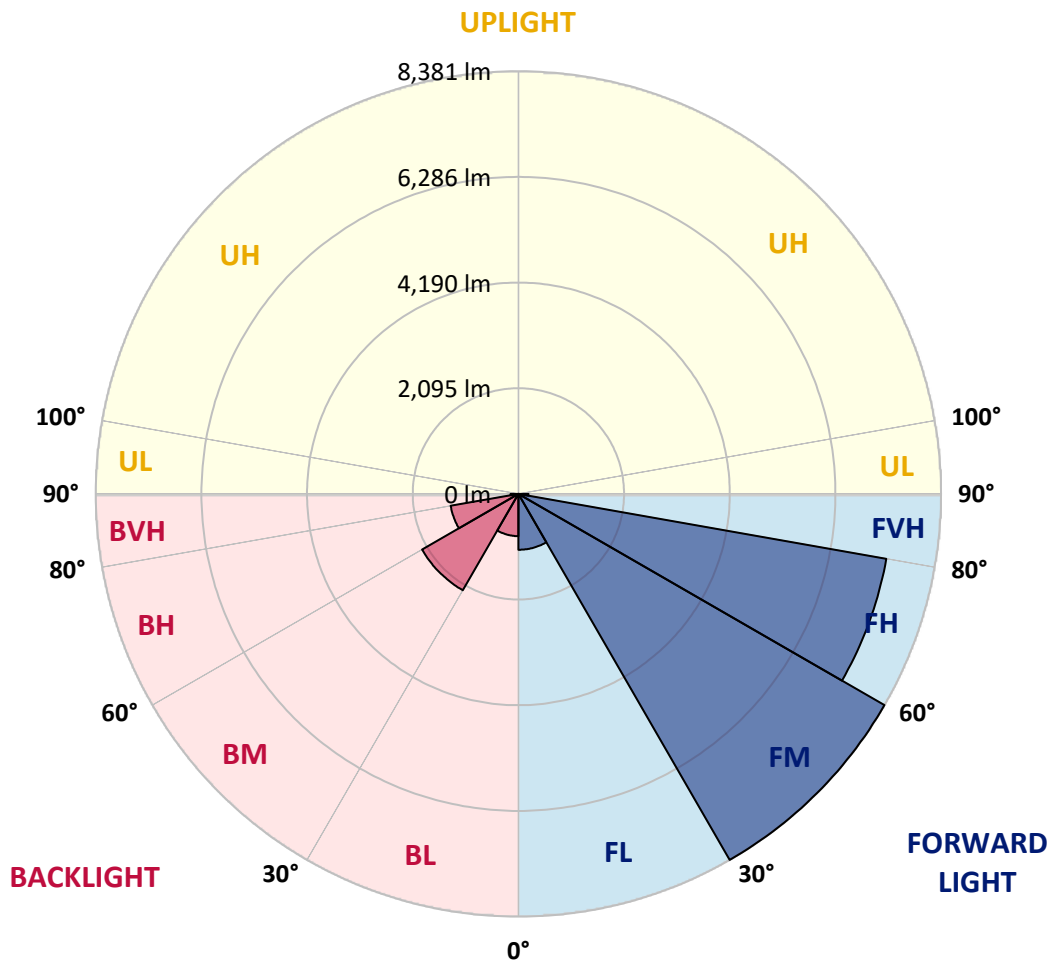
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1108.2 | 5.1       |                         |      |         |
| FM (30°-60°)   | 8380.9 | 38.7      |                         |      |         |
| FH (60°-80°)   | 7407.1 | 34.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 199.1  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 837.4  | 3.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 2206.1 | 10.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 1363.6 | 6.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 154.5  | 0.7       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 929.9   | 929.9  | 929.9  | 929.9  | 929.9   | 929.9   | 929.9   | 929.9   | 929.9   | 929.9   | 929.9   |
| 2.5°  | 1110.2  | 1076.9 | 1020.9 | 1034.5 | 1066.9  | 1085.0  | 1074.2  | 1059.7  | 1040.8  | 1037.2  | 1120.2  |
| 5°    | 1437.6  | 1373.6 | 1347.4 | 1336.6 | 1296.9  | 1273.5  | 1314.1  | 1308.6  | 1330.3  | 1370.0  | 1451.1  |
| 7.5°  | 1676.6  | 1631.5 | 1588.2 | 1583.7 | 1507.1  | 1480.0  | 1534.1  | 1563.0  | 1601.8  | 1602.7  | 1712.7  |
| 10°   | 1804.7  | 1765.9 | 1765.0 | 1724.4 | 1718.1  | 1769.5  | 1770.4  | 1792.1  | 1796.6  | 1842.6  | 1820.9  |
| 12.5° | 1943.6  | 1940.9 | 1990.5 | 1989.6 | 2047.3  | 2132.1  | 2089.7  | 2089.7  | 2102.3  | 2046.4  | 2114.9  |
| 15°   | 2274.6  | 2303.4 | 2210.5 | 2225.9 | 2225.9  | 2308.8  | 2306.1  | 2322.4  | 2361.2  | 2346.7  | 2316.1  |
| 17.5° | 2619.1  | 2637.1 | 2534.3 | 2438.7 | 2445.9  | 2427.9  | 2492.8  | 2499.1  | 2462.2  | 2629.9  | 2592.9  |
| 20°   | 2841.0  | 2911.3 | 2694.9 | 2574.9 | 2598.4  | 2619.1  | 2621.8  | 2583.0  | 2564.1  | 2822.0  | 2771.5  |
| 22.5° | 3115.1  | 3055.6 | 2857.2 | 2724.6 | 2759.8  | 2731.8  | 2726.4  | 2756.2  | 2782.3  | 2879.7  | 2961.8  |
| 25°   | 3298.2  | 3293.7 | 3055.6 | 2910.4 | 2871.6  | 2863.5  | 2918.5  | 2906.8  | 2969.0  | 3145.8  | 3094.4  |
| 27.5° | 3564.3  | 3647.3 | 3225.2 | 3261.2 | 3090.8  | 2911.3  | 3088.1  | 3141.3  | 3253.1  | 3224.3  | 3338.8  |
| 30°   | 4080.2  | 4017.9 | 3576.9 | 3567.0 | 3374.0  | 3223.4  | 3346.0  | 3300.9  | 3502.1  | 3495.7  | 3580.5  |
| 32.5° | 4501.4  | 4544.6 | 3990.0 | 3886.3 | 3742.9  | 3561.6  | 3480.4  | 3605.8  | 3714.0  | 3891.7  | 3939.5  |
| 35°   | 4946.9  | 4937.0 | 4413.0 | 4203.7 | 3966.5  | 3891.7  | 3991.8  | 4044.1  | 4274.1  | 4437.3  | 4323.7  |
| 37.5° | 5639.5  | 5561.1 | 4961.3 | 4565.4 | 4387.7  | 4360.7  | 4532.0  | 4456.3  | 4705.2  | 4744.0  | 4808.0  |
| 40°   | 6283.5  | 6047.2 | 5462.8 | 5009.1 | 4726.8  | 4827.8  | 4833.3  | 4843.2  | 4976.7  | 5082.2  | 5398.7  |
| 42.5° | 6895.9  | 6729.9 | 5972.3 | 5631.4 | 5215.7  | 5117.3  | 5178.7  | 5199.4  | 5536.7  | 5752.3  | 6190.6  |
| 45°   | 7732.8  | 7288.2 | 6704.7 | 6354.7 | 5889.4  | 5764.0  | 5720.7  | 5899.3  | 6224.9  | 6715.5  | 7091.6  |
| 47.5° | 8440.8  | 8039.5 | 7483.0 | 7022.1 | 6501.8  | 6859.8  | 6614.5  | 6514.4  | 6951.8  | 7559.7  | 8158.5  |
| 50°   | 9028.0  | 8586.0 | 8040.4 | 7774.3 | 7691.4  | 8010.6  | 7373.9  | 7385.6  | 7786.1  | 8643.8  | 9330.1  |
| 52.5° | 9482.5  | 9010.8 | 8527.4 | 8392.1 | 8855.7  | 9039.7  | 8579.7  | 8510.3  | 8802.5  | 9816.2  | 10640.5 |
| 55°   | 9907.3  | 9406.8 | 9033.4 | 9309.4 | 10090.4 | 10111.1 | 10078.7 | 9693.6  | 10045.3 | 11072.6 | 11997.0 |
| 57.5° | 10016.4 | 9477.1 | 9229.1 | 9625.0 | 10681.1 | 11502.8 | 11825.6 | 11069.8 | 11427.9 | 12215.3 | 13158.6 |
| 60°   | 9454.6  | 8992.8 | 8893.6 | 9431.1 | 11000.4 | 12201.7 | 13045.0 | 12593.1 | 12458.8 | 13132.5 | 13972.1 |
| 62.5° | 8303.7  | 7768.0 | 7848.3 | 8595.1 | 10664.0 | 12478.6 | 14008.2 | 14360.9 | 13547.4 | 13862.1 | 14327.5 |
| 65°   | 6609.1  | 6097.7 | 6260.0 | 7158.3 | 9607.9  | 12570.6 | 14500.7 | 15224.0 | 13940.6 | 14068.6 | 13824.2 |
| 67.5° | 4661.0  | 4196.5 | 4401.2 | 5562.9 | 7992.6  | 11392.7 | 14585.4 | 14821.7 | 13522.1 | 13479.7 | 12449.7 |
| 70°   | 2640.7  | 2349.4 | 2571.3 | 3539.9 | 5641.3  | 9075.8  | 13920.7 | 13609.6 | 12771.7 | 12171.1 | 10416.9 |
| 72.5° | 1211.2  | 1111.1 | 1217.6 | 1802.0 | 3247.7  | 6039.1  | 11364.8 | 11647.1 | 11004.9 | 10253.6 | 7924.9  |
| 75°   | 644.0   | 608.8  | 653.9  | 900.1  | 1519.7  | 3285.6  | 8074.7  | 8709.6  | 8367.8  | 7777.0  | 5169.7  |
| 77.5° | 478.9   | 451.8  | 473.5  | 583.5  | 811.7   | 1285.2  | 4587.9  | 5388.8  | 5518.7  | 4974.8  | 2870.7  |
| 80°   | 367.1   | 345.4  | 367.1  | 441.0  | 561.9   | 610.6   | 1961.6  | 2511.8  | 2860.8  | 2311.6  | 1140.9  |
| 82.5° | 272.4   | 257.9  | 291.3  | 331.0  | 395.0   | 381.5   | 696.3   | 866.7   | 1117.4  | 763.9   | 444.6   |
| 85°   | 216.5   | 198.4  | 211.0  | 224.6  | 252.5   | 209.2   | 318.4   | 356.2   | 377.0   | 315.7   | 164.1   |
| 87.5° | 84.8    | 78.5   | 153.3  | 120.9  | 102.8   | 63.1    | 95.6    | 108.2   | 110.9   | 106.4   | 47.8    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 929.9   | 929.9  | 929.9  | 929.9  | 929.9  | 929.9  | 929.9  | 929.9  | 929.9  | 929.9  | 929.9  |
| 2.5°  | 1129.2  | 1120.2 | 1066.9 | 1084.1 | 1112.0 | 1117.4 | 1129.2 | 1096.7 | 1080.5 | 1140.0 | 1142.7 |
| 5°    | 1458.4  | 1409.7 | 1384.4 | 1387.1 | 1369.1 | 1341.1 | 1383.5 | 1411.5 | 1422.3 | 1466.5 | 1482.7 |
| 7.5°  | 1713.6  | 1655.0 | 1612.6 | 1563.9 | 1495.3 | 1451.1 | 1525.1 | 1579.2 | 1608.1 | 1700.1 | 1736.1 |
| 10°   | 1827.2  | 1780.3 | 1771.3 | 1710.0 | 1708.2 | 1707.3 | 1703.7 | 1684.7 | 1747.0 | 1737.9 | 1763.2 |
| 12.5° | 2061.7  | 2051.8 | 1966.1 | 1941.8 | 1944.5 | 1941.8 | 1866.0 | 1862.4 | 1863.3 | 1946.3 | 1916.5 |
| 15°   | 2280.0  | 2281.8 | 2203.3 | 2114.9 | 2035.6 | 2011.2 | 1981.5 | 1967.9 | 1987.8 | 2034.7 | 2005.8 |
| 17.5° | 2549.7  | 2558.7 | 2334.1 | 2194.3 | 2089.7 | 2087.0 | 2015.7 | 1931.9 | 2052.7 | 2081.6 | 2050.0 |
| 20°   | 2723.7  | 2685.8 | 2409.9 | 2175.4 | 2145.6 | 2064.4 | 1976.0 | 1860.6 | 1965.2 | 2035.6 | 2055.4 |
| 22.5° | 2888.8  | 2822.9 | 2480.2 | 2208.7 | 2066.2 | 1969.7 | 1884.1 | 1809.2 | 1842.6 | 1921.0 | 1908.4 |
| 25°   | 3000.6  | 2982.6 | 2577.6 | 2289.0 | 2063.5 | 1848.9 | 1733.4 | 1685.6 | 1702.8 | 1824.5 | 1812.8 |
| 27.5° | 3267.6  | 3072.8 | 2560.5 | 2309.8 | 1977.0 | 1683.8 | 1626.1 | 1574.7 | 1557.6 | 1689.2 | 1725.3 |
| 30°   | 3446.1  | 3365.9 | 2675.0 | 2277.3 | 1867.8 | 1548.6 | 1463.8 | 1453.0 | 1458.4 | 1608.1 | 1618.0 |
| 32.5° | 3749.2  | 3540.8 | 2862.6 | 2152.8 | 1709.1 | 1448.4 | 1351.0 | 1355.5 | 1379.9 | 1489.0 | 1511.6 |
| 35°   | 4064.8  | 3940.4 | 2887.9 | 2063.5 | 1580.1 | 1342.0 | 1302.3 | 1270.8 | 1284.3 | 1379.9 | 1384.4 |
| 37.5° | 4651.1  | 4220.9 | 3043.0 | 1925.5 | 1485.4 | 1301.4 | 1225.7 | 1197.7 | 1204.9 | 1259.0 | 1297.8 |
| 40°   | 5167.0  | 4784.5 | 2970.8 | 1792.1 | 1368.2 | 1247.3 | 1152.6 | 1131.9 | 1110.2 | 1163.4 | 1187.8 |
| 42.5° | 5994.0  | 5186.8 | 2946.5 | 1645.1 | 1313.2 | 1174.3 | 1109.3 | 1054.3 | 1033.6 | 1078.7 | 1122.9 |
| 45°   | 6821.0  | 5613.4 | 2813.9 | 1496.2 | 1235.6 | 1168.9 | 1046.2 | 993.9  | 999.3  | 1039.9 | 1085.0 |
| 47.5° | 7742.8  | 6186.1 | 2589.3 | 1351.9 | 1150.8 | 1142.7 | 983.1  | 960.5  | 976.8  | 1021.8 | 1066.9 |
| 50°   | 8832.2  | 6794.0 | 2403.5 | 1222.1 | 1090.4 | 1064.2 | 974.9  | 947.9  | 963.2  | 1016.4 | 1060.6 |
| 52.5° | 10023.7 | 7460.5 | 2268.3 | 1102.1 | 1021.8 | 1002.0 | 985.8  | 959.6  | 977.7  | 1023.6 | 1069.6 |
| 55°   | 11207.8 | 8069.2 | 2176.3 | 1020.0 | 963.2  | 975.8  | 1008.3 | 989.4  | 998.4  | 1032.7 | 1078.7 |
| 57.5° | 12086.3 | 8390.3 | 1991.4 | 932.6  | 915.4  | 960.5  | 1011.0 | 979.5  | 984.9  | 1032.7 | 1082.3 |
| 60°   | 12596.8 | 8451.6 | 1687.4 | 861.3  | 877.5  | 929.9  | 983.1  | 942.5  | 938.9  | 1017.3 | 1079.6 |
| 62.5° | 12540.8 | 8095.4 | 1338.4 | 796.4  | 834.3  | 883.9  | 940.7  | 901.9  | 911.8  | 1019.1 | 1085.0 |
| 65°   | 11740.0 | 7367.6 | 1064.2 | 741.4  | 781.9  | 833.4  | 905.5  | 890.2  | 938.0  | 1091.3 | 1162.5 |
| 67.5° | 10333.0 | 6304.2 | 855.0  | 689.9  | 733.2  | 799.1  | 929.9  | 970.4  | 991.2  | 1165.2 | 1238.3 |
| 70°   | 8374.1  | 4898.2 | 712.5  | 644.9  | 694.5  | 815.3  | 1000.2 | 992.1  | 974.9  | 1130.1 | 1187.8 |
| 72.5° | 6049.9  | 3357.8 | 626.8  | 600.7  | 646.7  | 766.6  | 1002.0 | 958.7  | 937.1  | 1031.8 | 1073.3 |
| 75°   | 3785.2  | 2003.1 | 547.4  | 544.7  | 573.6  | 687.2  | 956.9  | 918.1  | 859.5  | 906.4  | 960.5  |
| 77.5° | 2161.8  | 1025.5 | 460.9  | 485.2  | 502.4  | 596.2  | 856.8  | 821.6  | 769.3  | 789.2  | 842.4  |
| 80°   | 825.2   | 496.0  | 388.7  | 431.1  | 426.6  | 505.1  | 726.0  | 717.9  | 658.4  | 664.7  | 697.2  |
| 82.5° | 388.7   | 277.8  | 322.9  | 370.7  | 346.3  | 402.2  | 589.8  | 587.1  | 534.8  | 484.3  | 510.5  |
| 85°   | 144.3   | 147.9  | 236.3  | 282.3  | 240.8  | 259.7  | 426.6  | 414.9  | 364.4  | 307.5  | 340.0  |
| 87.5° | 32.5    | 53.2   | 116.3  | 147.0  | 83.9   | 80.3   | 172.3  | 149.7  | 144.3  | 85.7   | 90.2   |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)