

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: P598350

Luminaire Tested: **PMM-SA2B-835-U-SL2**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2B-835-U-SL2  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8158 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

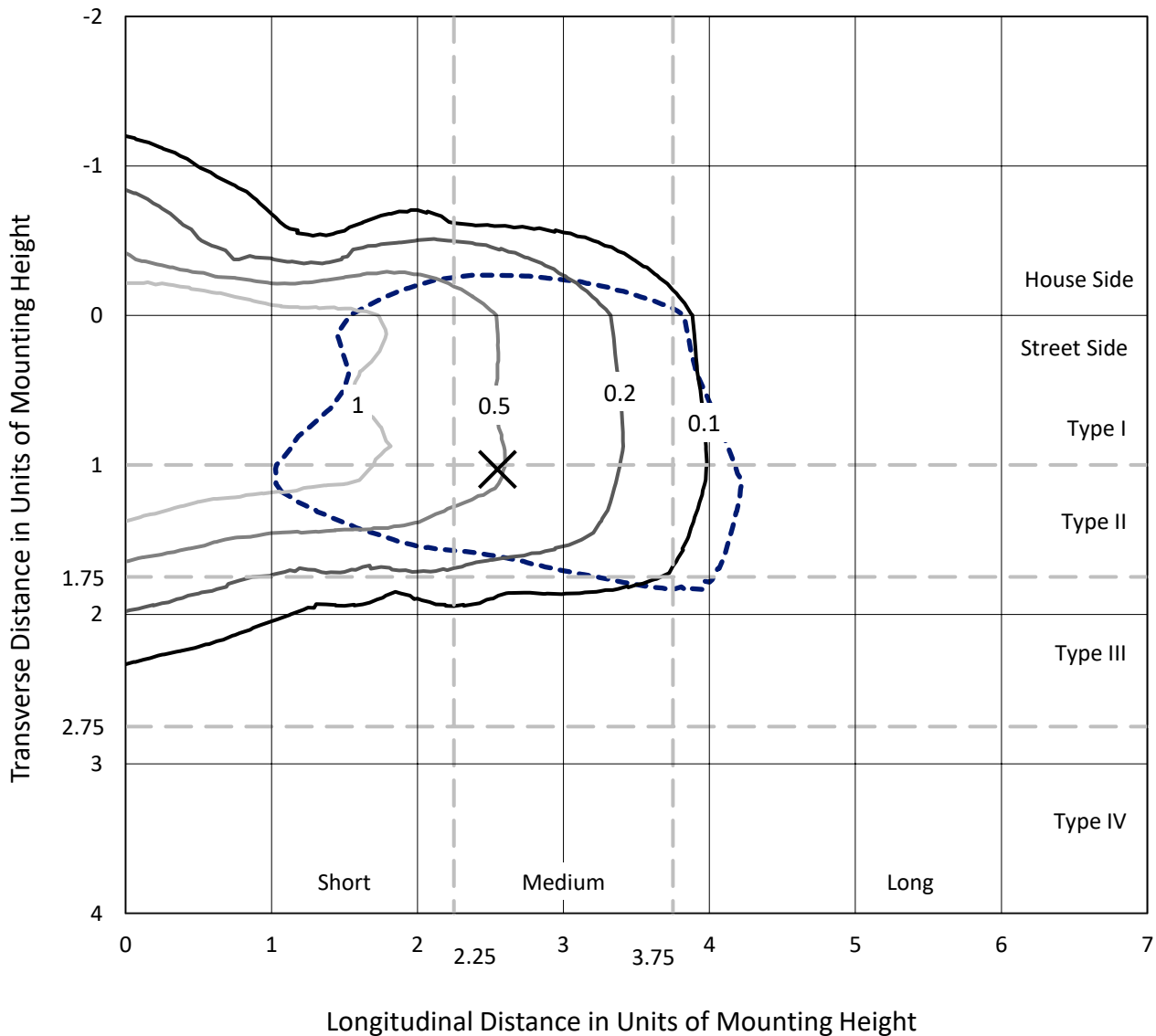
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

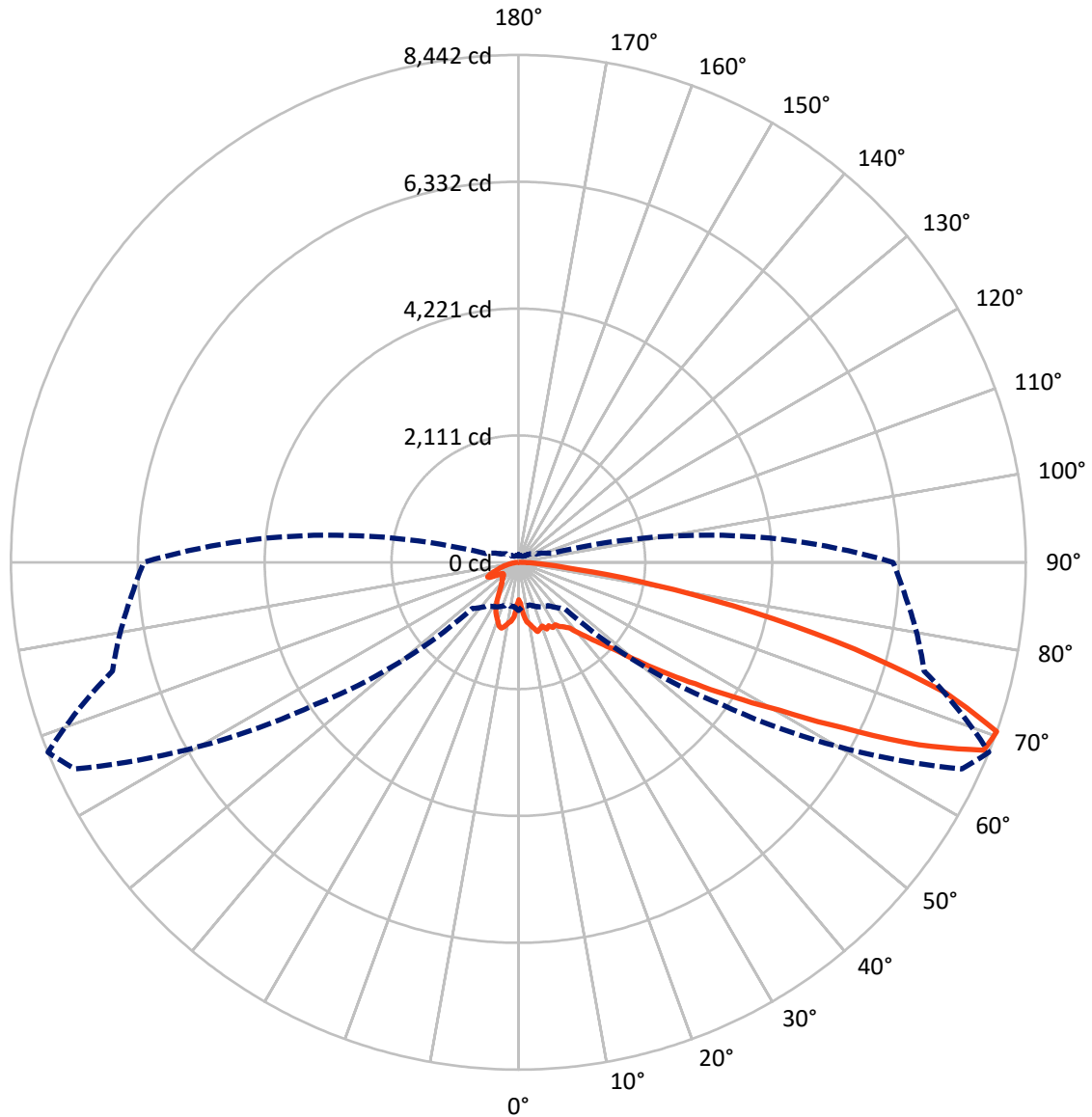
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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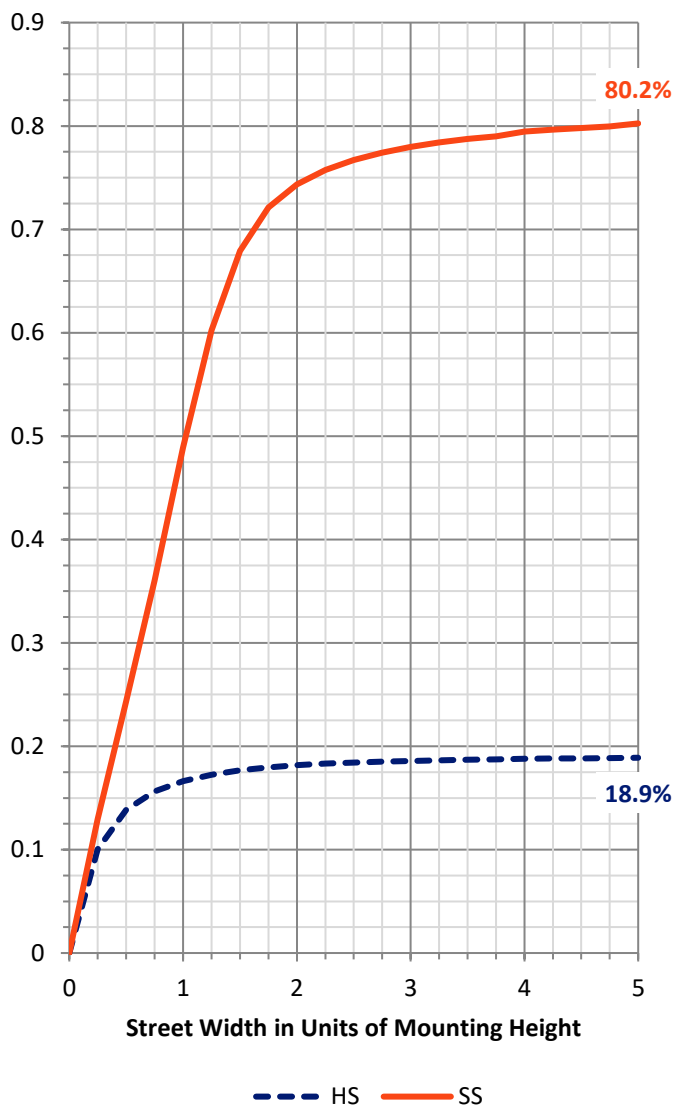
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1557.6   | 0.0    | 1557.6 |
|                    | % Fixture | 19.1     | 0.0    | 19.1   |
| <b>Street Side</b> | Lumens    | 6600.5   | 0.0    | 6600.5 |
|                    | % Fixture | 80.9     | 0.0    | 80.9   |
| <b>Total</b>       | Lumens    | 8158.0   | 0.0    | 8158.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.5   | 1.0       |
| 10°-20°   | 272.3  | 3.3       |
| 20°-30°   | 414.2  | 5.1       |
| 30°-40°   | 632.7  | 7.8       |
| 40°-50°   | 1087.8 | 13.3      |
| 50°-60°   | 1800.6 | 22.1      |
| 60°-70°   | 2219.8 | 27.2      |
| 70°-80°   | 1426.0 | 17.5      |
| 80°-90°   | 221.2  | 2.7       |
| 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°    | 8158.0 | 100.0     |
| 0°-180°   | 8158.0 | 100.0     |

**Coefficient of Utilization**



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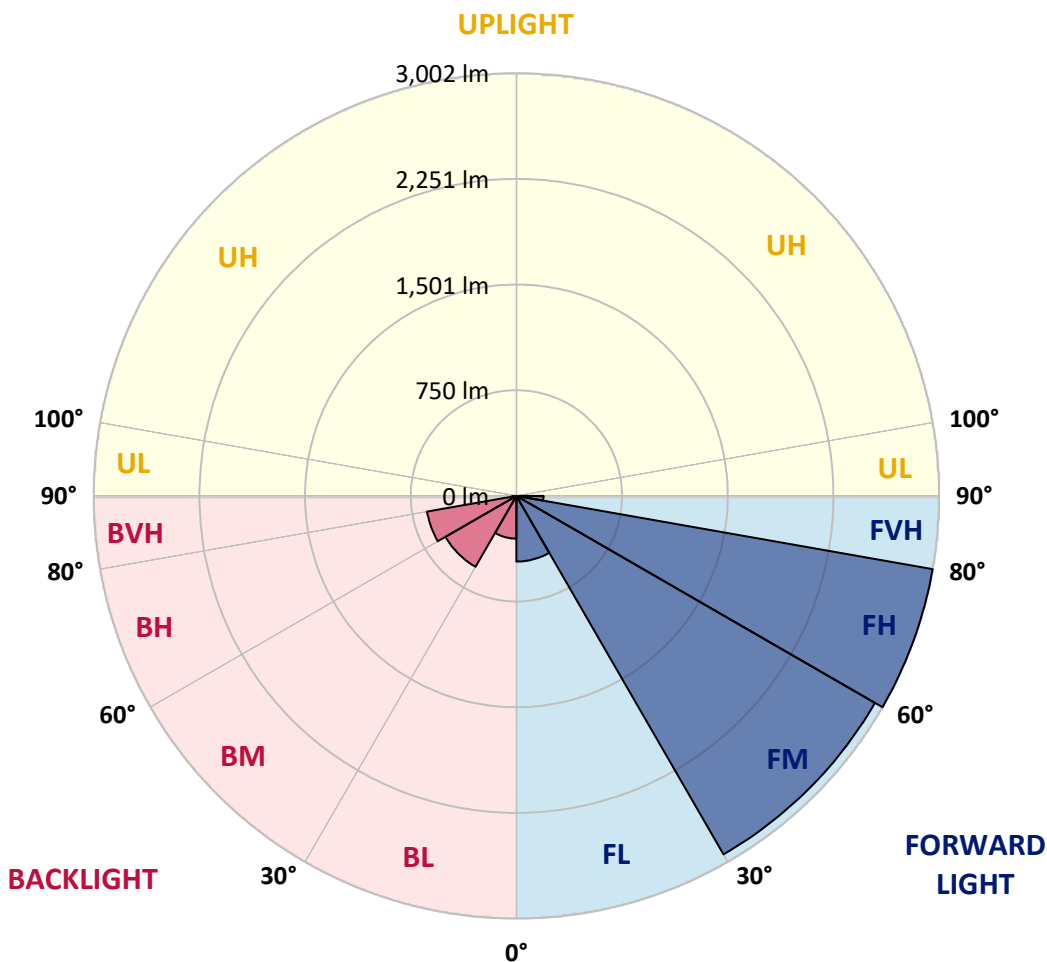
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 466.5  | 5.7       |                         |      |         |
| FM (30°-60°)   | 2939.6 | 36.0      |                         |      |         |
| FH (60°-80°)   | 3001.5 | 36.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 192.8  | 2.4       |                         |      | G2/225  |
| BL (0°-30°)    | 303.5  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 581.4  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 644.3  | 7.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 28.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 68°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  |
| 2.5°  | 718.7  | 689.7  | 660.3  | 674.7  | 697.5  | 717.7  | 713.6  | 716.0  | 688.3  | 684.6  | 757.3  |
| 5°    | 846.8  | 796.9  | 795.9  | 796.6  | 798.6  | 775.4  | 832.1  | 861.4  | 867.9  | 898.0  | 969.3  |
| 7.5°  | 891.1  | 871.0  | 850.5  | 860.7  | 834.8  | 837.2  | 906.8  | 983.3  | 1001.4 | 1023.3 | 1120.9 |
| 10°   | 881.9  | 862.8  | 868.9  | 870.7  | 875.4  | 914.0  | 958.7  | 1032.1 | 1047.5 | 1117.2 | 1142.4 |
| 12.5° | 883.3  | 879.9  | 908.5  | 909.6  | 960.8  | 1030.1 | 1047.9 | 1115.5 | 1121.6 | 1172.8 | 1278.3 |
| 15°   | 930.1  | 953.6  | 937.6  | 946.1  | 956.0  | 1039.0 | 1064.6 | 1161.6 | 1198.4 | 1264.3 | 1343.5 |
| 17.5° | 1021.2 | 1028.1 | 979.9  | 967.3  | 999.7  | 1025.0 | 1083.4 | 1125.4 | 1163.9 | 1348.0 | 1457.2 |
| 20°   | 1042.4 | 1060.8 | 1003.5 | 938.3  | 1006.9 | 1042.0 | 1082.7 | 1101.8 | 1131.8 | 1360.3 | 1515.3 |
| 22.5° | 1133.2 | 1095.0 | 1025.7 | 969.0  | 991.5  | 1025.7 | 1055.0 | 1127.1 | 1205.9 | 1325.1 | 1573.3 |
| 25°   | 1184.8 | 1162.6 | 1100.8 | 1040.0 | 1020.9 | 1021.9 | 1078.6 | 1143.1 | 1170.4 | 1376.7 | 1584.9 |
| 27.5° | 1309.4 | 1273.9 | 1134.9 | 1123.3 | 1051.3 | 995.3  | 1082.3 | 1182.7 | 1230.5 | 1336.4 | 1641.6 |
| 30°   | 1465.4 | 1438.5 | 1256.1 | 1240.8 | 1130.8 | 1033.2 | 1130.1 | 1212.1 | 1205.3 | 1362.7 | 1680.9 |
| 32.5° | 1591.8 | 1636.8 | 1452.8 | 1331.6 | 1253.4 | 1159.8 | 1115.1 | 1207.0 | 1274.9 | 1423.8 | 1747.4 |
| 35°   | 1772.0 | 1814.4 | 1606.1 | 1524.2 | 1354.5 | 1218.6 | 1219.9 | 1277.3 | 1319.3 | 1495.1 | 1821.9 |
| 37.5° | 2084.1 | 2046.9 | 1879.2 | 1749.8 | 1641.3 | 1438.5 | 1377.7 | 1357.5 | 1391.3 | 1582.5 | 1967.7 |
| 40°   | 2309.1 | 2277.7 | 2080.3 | 2006.6 | 1795.2 | 1677.5 | 1510.8 | 1491.7 | 1551.5 | 1672.7 | 2086.8 |
| 42.5° | 2575.8 | 2519.8 | 2336.1 | 2275.3 | 2054.4 | 1842.0 | 1674.0 | 1685.0 | 1714.0 | 1842.7 | 2248.0 |
| 45°   | 2847.2 | 2711.3 | 2607.2 | 2602.4 | 2454.9 | 2161.6 | 1935.9 | 1927.0 | 1928.1 | 2093.0 | 2428.9 |
| 47.5° | 3062.6 | 2940.4 | 2821.2 | 2764.6 | 2690.1 | 2714.4 | 2316.3 | 2212.1 | 2180.7 | 2345.0 | 2700.4 |
| 50°   | 3208.4 | 3067.8 | 2932.9 | 2919.6 | 3118.3 | 3249.1 | 2673.4 | 2562.1 | 2581.6 | 2705.5 | 3062.3 |
| 52.5° | 3211.5 | 3044.5 | 2903.9 | 2997.1 | 3465.2 | 3652.3 | 3288.7 | 2977.6 | 3039.8 | 3124.1 | 3534.5 |
| 55°   | 2988.2 | 2815.1 | 2723.6 | 2936.0 | 3600.7 | 4130.6 | 4153.2 | 3643.4 | 3571.7 | 3602.8 | 4098.9 |
| 57.5° | 2517.4 | 2342.6 | 2289.3 | 2543.7 | 3343.6 | 4591.9 | 5197.3 | 4439.0 | 4228.6 | 4098.9 | 4677.3 |
| 60°   | 1894.9 | 1743.7 | 1710.6 | 1872.8 | 2772.1 | 4456.4 | 6042.7 | 5429.1 | 5000.6 | 4653.0 | 5257.4 |
| 62.5° | 1421.0 | 1312.5 | 1262.6 | 1285.8 | 1918.2 | 4015.6 | 6597.8 | 6680.1 | 6073.4 | 5258.0 | 5824.1 |
| 65°   | 1154.7 | 1067.0 | 1022.6 | 992.5  | 1193.0 | 3105.0 | 6497.4 | 7733.1 | 7326.4 | 5893.5 | 6265.3 |
| 67.5° | 964.5  | 886.7  | 866.2  | 895.6  | 943.0  | 1801.4 | 5712.2 | 8322.1 | 8349.7 | 6520.3 | 6523.1 |
| 70°   | 800.7  | 743.0  | 735.4  | 818.8  | 881.2  | 1087.1 | 4125.9 | 8137.0 | 8442.2 | 6990.5 | 6462.6 |
| 72.5° | 618.7  | 587.6  | 586.6  | 717.3  | 875.4  | 926.6  | 2456.9 | 7029.4 | 7439.5 | 6840.2 | 5871.3 |
| 75°   | 429.2  | 407.7  | 424.1  | 589.7  | 855.3  | 940.0  | 1402.3 | 5475.2 | 5782.1 | 5820.7 | 4703.2 |
| 77.5° | 295.3  | 277.2  | 295.0  | 426.4  | 763.8  | 962.5  | 980.9  | 3958.9 | 3993.0 | 3903.2 | 2693.9 |
| 80°   | 205.5  | 192.9  | 206.6  | 301.8  | 594.4  | 952.6  | 835.1  | 2492.5 | 2286.9 | 1742.0 | 862.5  |
| 82.5° | 127.4  | 123.6  | 138.6  | 215.1  | 418.6  | 866.6  | 791.4  | 1286.2 | 982.0  | 480.7  | 308.0  |
| 85°   | 66.9   | 61.5   | 80.6   | 140.3  | 261.9  | 680.1  | 741.6  | 586.9  | 379.0  | 170.7  | 123.6  |
| 87.5° | 19.8   | 17.8   | 31.1   | 56.7   | 111.0  | 304.9  | 424.4  | 248.9  | 141.4  | 50.2   | 38.6   |
| 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°    | 625.5  | 625.5  | 625.5  | 625.5  | 625.5  | 625.5 | 625.5 | 625.5 | 625.5 | 625.5 | 625.5 |
| 2.5°  | 762.4  | 758.7  | 708.1  | 714.6  | 725.5  | 728.3 | 727.9 | 709.5 | 690.0 | 744.3 | 742.6 |
| 5°    | 971.0  | 937.2  | 912.0  | 906.5  | 875.4  | 844.4 | 855.3 | 851.5 | 846.8 | 871.3 | 874.4 |
| 7.5°  | 1121.3 | 1074.5 | 1045.1 | 969.7  | 898.0  | 835.8 | 855.6 | 861.8 | 849.5 | 893.9 | 907.2 |
| 10°   | 1160.9 | 1124.0 | 1092.2 | 995.3  | 955.7  | 919.5 | 865.9 | 804.8 | 796.6 | 771.0 | 774.0 |
| 12.5° | 1263.0 | 1257.8 | 1149.6 | 1064.2 | 1012.7 | 940.6 | 824.9 | 750.8 | 687.3 | 690.4 | 671.9 |
| 15°   | 1343.5 | 1346.3 | 1216.2 | 1096.7 | 958.4  | 848.5 | 712.2 | 620.0 | 554.8 | 541.9 | 528.5 |
| 17.5° | 1451.8 | 1446.3 | 1221.6 | 1057.8 | 882.6  | 721.4 | 554.5 | 463.0 | 452.1 | 459.6 | 448.0 |
| 20°   | 1498.9 | 1450.7 | 1186.8 | 961.1  | 764.1  | 548.0 | 418.9 | 370.5 | 391.6 | 421.7 | 422.4 |
| 22.5° | 1541.2 | 1458.9 | 1168.7 | 883.3  | 606.4  | 398.5 | 336.3 | 327.4 | 352.4 | 393.0 | 396.4 |
| 25°   | 1539.5 | 1496.8 | 1136.3 | 804.8  | 470.2  | 311.0 | 292.3 | 298.8 | 328.5 | 370.8 | 373.2 |
| 27.5° | 1617.0 | 1467.8 | 1052.0 | 701.6  | 354.1  | 266.3 | 271.1 | 283.0 | 297.0 | 337.3 | 345.2 |
| 30°   | 1616.3 | 1521.8 | 1009.6 | 576.3  | 284.4  | 244.1 | 256.4 | 266.7 | 278.3 | 315.1 | 319.6 |
| 32.5° | 1654.6 | 1486.6 | 984.0  | 448.3  | 255.0  | 238.7 | 241.7 | 252.0 | 268.7 | 293.6 | 296.7 |
| 35°   | 1700.7 | 1526.5 | 902.1  | 356.1  | 244.1  | 233.9 | 236.3 | 242.1 | 257.4 | 280.3 | 283.4 |
| 37.5° | 1848.5 | 1534.1 | 869.6  | 300.1  | 243.4  | 231.8 | 231.5 | 234.6 | 252.0 | 272.8 | 282.0 |
| 40°   | 1906.2 | 1602.7 | 775.0  | 280.3  | 241.1  | 231.8 | 227.1 | 228.8 | 243.1 | 269.7 | 276.9 |
| 42.5° | 2044.5 | 1625.6 | 705.1  | 273.5  | 241.1  | 227.7 | 220.2 | 223.0 | 239.7 | 263.2 | 274.5 |
| 45°   | 2186.9 | 1658.0 | 621.7  | 272.1  | 240.7  | 227.4 | 213.1 | 219.2 | 232.9 | 252.7 | 265.0 |
| 47.5° | 2389.7 | 1774.8 | 538.4  | 268.0  | 238.0  | 229.1 | 211.3 | 211.0 | 223.0 | 240.0 | 251.6 |
| 50°   | 2720.5 | 1957.1 | 473.9  | 262.9  | 238.3  | 227.7 | 207.9 | 203.2 | 211.0 | 226.0 | 237.3 |
| 52.5° | 3181.1 | 2267.8 | 448.6  | 260.2  | 235.6  | 222.3 | 202.1 | 194.6 | 199.1 | 211.0 | 221.9 |
| 55°   | 3715.8 | 2687.4 | 473.6  | 260.2  | 230.1  | 213.7 | 193.9 | 185.1 | 187.4 | 195.6 | 206.2 |
| 57.5° | 4340.6 | 3208.8 | 594.1  | 256.4  | 223.3  | 203.5 | 184.0 | 173.8 | 174.5 | 181.6 | 191.2 |
| 60°   | 4993.1 | 3791.3 | 864.2  | 253.3  | 218.5  | 192.2 | 172.4 | 161.8 | 160.8 | 167.6 | 176.2 |
| 62.5° | 5646.6 | 4328.7 | 1148.2 | 260.5  | 217.2  | 182.7 | 160.1 | 149.5 | 149.2 | 155.4 | 162.5 |
| 65°   | 6166.3 | 4696.1 | 1218.9 | 289.5  | 226.0  | 171.7 | 147.5 | 137.6 | 136.9 | 142.0 | 149.9 |
| 67.5° | 6421.3 | 4749.3 | 926.0  | 325.7  | 244.8  | 161.5 | 135.2 | 126.0 | 125.3 | 130.8 | 137.6 |
| 70°   | 6232.5 | 4385.3 | 571.6  | 329.5  | 243.8  | 149.5 | 122.6 | 114.7 | 113.4 | 119.2 | 124.3 |
| 72.5° | 5533.9 | 3836.0 | 434.3  | 291.6  | 211.0  | 132.5 | 109.9 | 103.1 | 101.1 | 106.2 | 111.0 |
| 75°   | 4441.7 | 3045.6 | 347.9  | 235.2  | 166.3  | 111.6 | 97.3  | 90.8  | 88.4  | 93.2  | 97.3  |
| 77.5° | 2587.4 | 1713.3 | 254.4  | 183.7  | 125.6  | 91.2  | 83.0  | 77.2  | 74.4  | 79.6  | 82.6  |
| 80°   | 841.3  | 570.9  | 159.8  | 131.8  | 91.8   | 71.4  | 67.3  | 63.2  | 60.4  | 63.8  | 64.9  |
| 82.5° | 302.2  | 212.4  | 88.4   | 80.9   | 61.1   | 51.2  | 50.9  | 48.5  | 45.1  | 46.4  | 46.4  |
| 85°   | 133.8  | 97.0   | 52.6   | 43.4   | 36.5   | 27.3  | 32.1  | 30.4  | 27.0  | 26.3  | 25.3  |
| 87.5° | 37.6   | 32.1   | 19.1   | 14.7   | 12.0   | 4.4   | 10.2  | 9.2   | 7.5   | 6.8   | 4.8   |
| 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)