

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P368439

Luminaire Tested: **PMM-SA4B-830-U-T2-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P368439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4B-830-U-T2-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

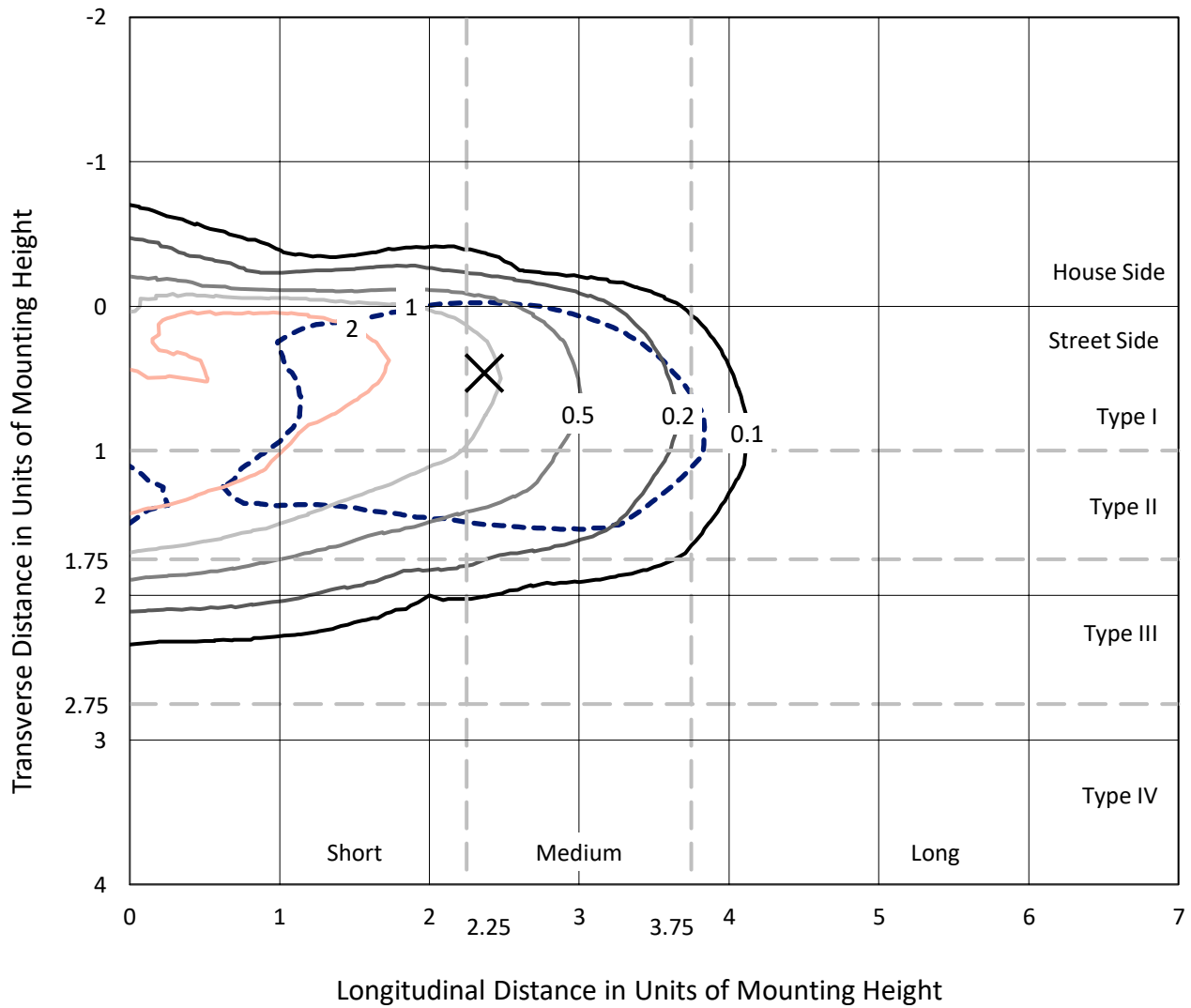
Lumens per Lamp: N/A  
Luminaire Lumens: 11644 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

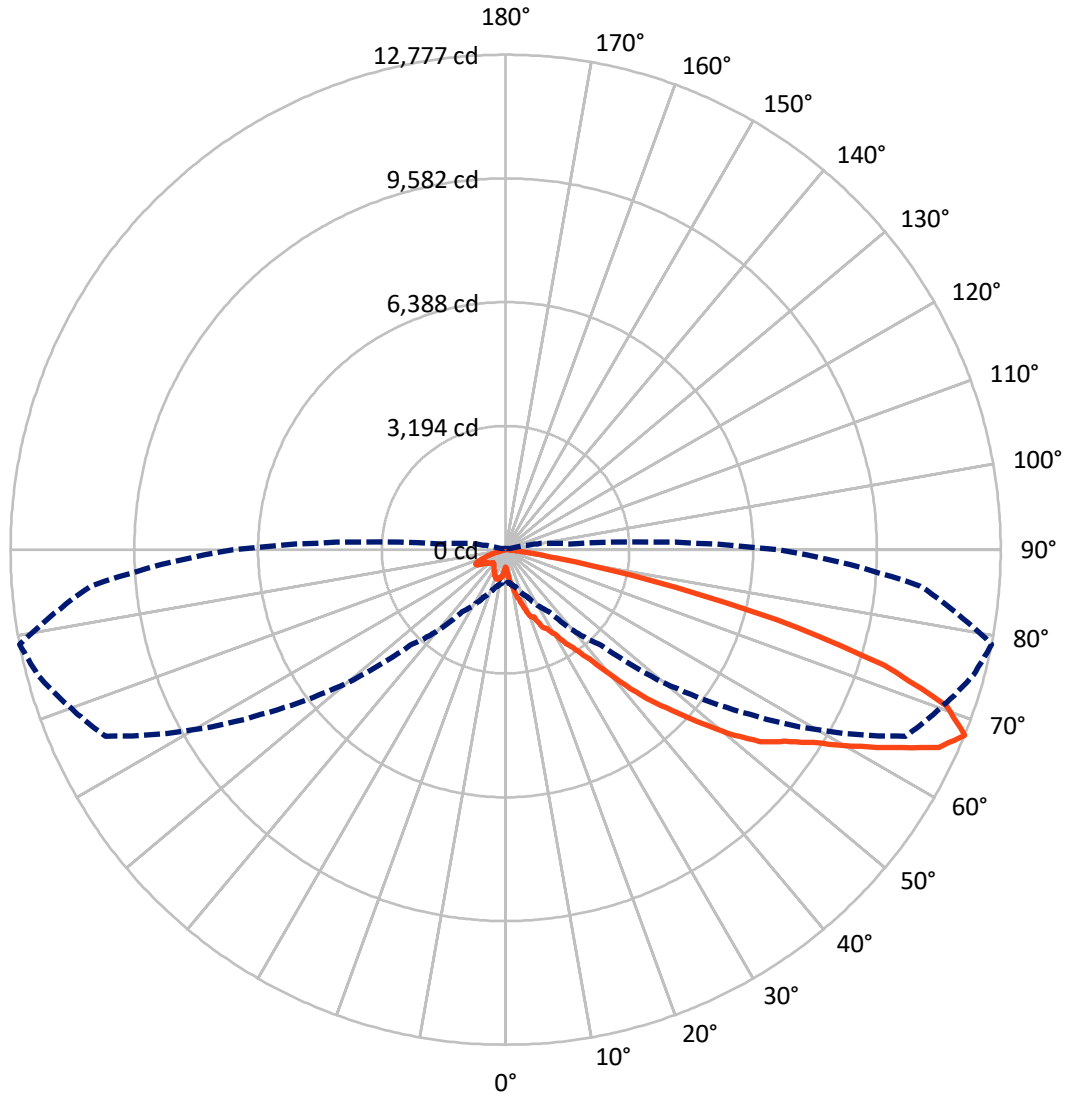
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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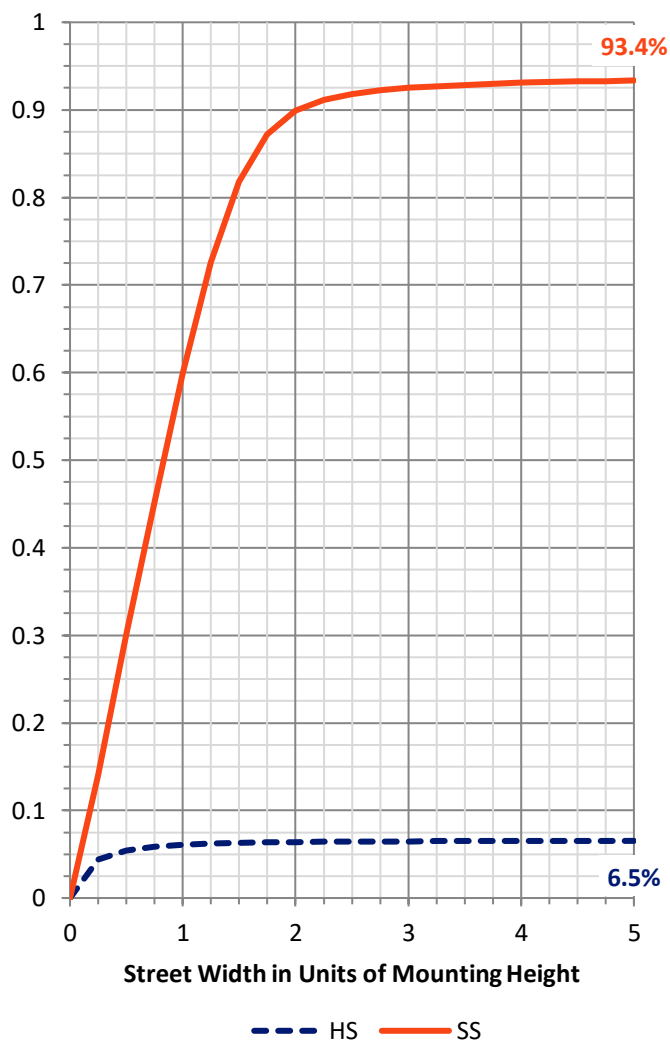
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 765.1    | 0.0    | 765.1   |
|                    | % Fixture | 6.6      | 0.0    | 6.6     |
| <b>Street Side</b> | Lumens    | 10878.9  | 0.0    | 10878.9 |
|                    | % Fixture | 93.4     | 0.0    | 93.4    |
| <b>Total</b>       | Lumens    | 11644.0  | 0.0    | 11644.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 65.3    | 0.6       |
| 10°-20°   | 260.2   | 2.2       |
| 20°-30°   | 501.9   | 4.3       |
| 30°-40°   | 986.0   | 8.5       |
| 40°-50°   | 1975.2  | 17.0      |
| 50°-60°   | 3157.1  | 27.1      |
| 60°-70°   | 3176.6  | 27.3      |
| 70°-80°   | 1433.0  | 12.3      |
| 80°-90°   | 88.7    | 0.8       |
| 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°    | 11644.0 | 100.0     |
| 0°-180°   | 11644.0 | 100.0     |

**Coefficient of Utilization**

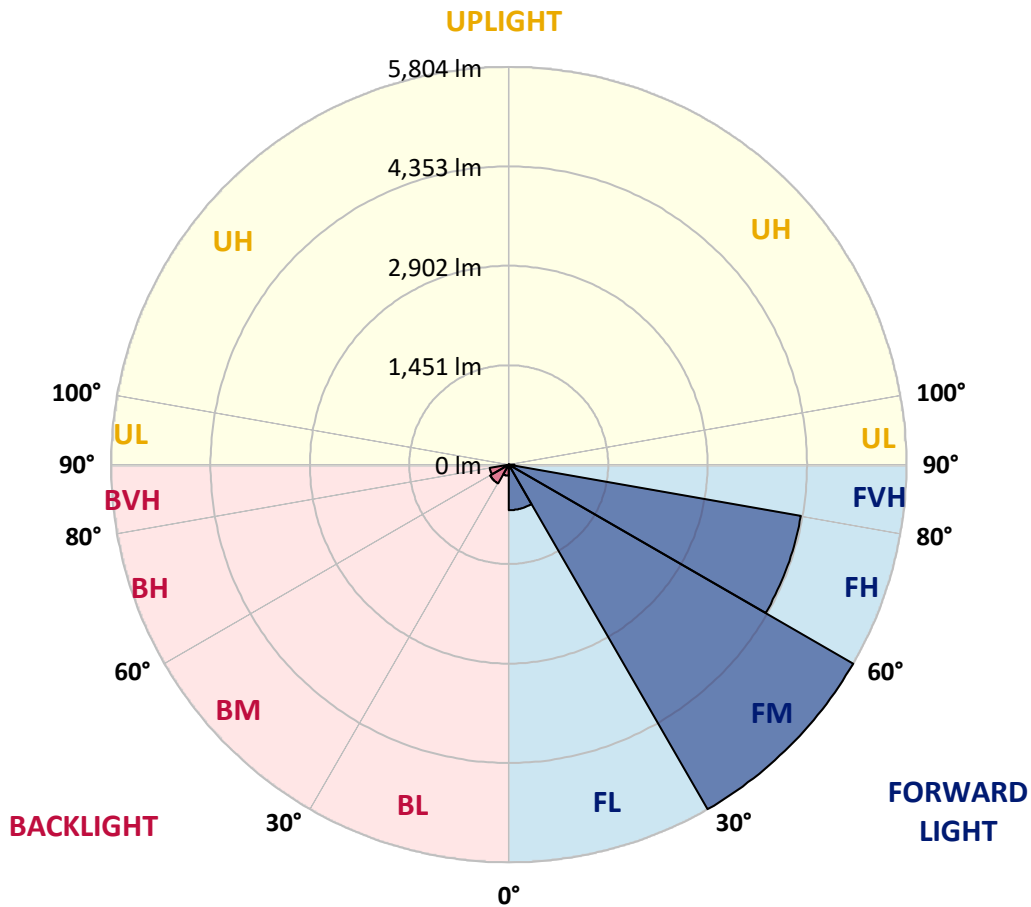


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 664.7  | 5.7       |                         |      |         |
| FM (30°-60°)   | 5803.5 | 49.8      |                         |      |         |
| FH (60°-80°)   | 4327.6 | 37.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 83.0   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 162.6  | 1.4       | B1/500                  |      |         |
| BM (30°-60°)   | 314.8  | 2.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 282.0  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.6    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 448.7  | 448.7  | 448.7  | 448.7  | 448.7  | 448.7  | 448.7  | 448.7   | 448.7   | 448.7   | 448.7   |
| 2.5°  | 605.9  | 584.1  | 548.8  | 568.7  | 567.4  | 577.7  | 558.4  | 537.3   | 503.2   | 537.3   | 539.8   |
| 5°    | 872.3  | 831.9  | 806.2  | 801.1  | 772.8  | 746.5  | 740.7  | 718.9   | 702.2   | 672.0   | 699.0   |
| 7.5°  | 1086.7 | 1068.1 | 1022.5 | 1017.4 | 948.1  | 909.5  | 921.7  | 912.1   | 848.6   | 817.1   | 843.4   |
| 10°   | 1177.8 | 1145.8 | 1152.2 | 1145.8 | 1116.2 | 1127.1 | 1102.1 | 1073.2  | 1022.5  | 970.5   | 905.0   |
| 12.5° | 1213.2 | 1208.0 | 1261.3 | 1254.9 | 1324.2 | 1407.6 | 1351.8 | 1303.7  | 1186.2  | 1173.4  | 1084.1  |
| 15°   | 1288.9 | 1321.0 | 1313.3 | 1340.2 | 1384.5 | 1526.4 | 1525.1 | 1536.7  | 1412.1  | 1345.4  | 1216.4  |
| 17.5° | 1356.3 | 1380.0 | 1341.5 | 1372.3 | 1493.0 | 1579.0 | 1693.9 | 1649.0  | 1663.1  | 1595.1  | 1395.4  |
| 20°   | 1327.4 | 1354.4 | 1315.9 | 1297.2 | 1509.7 | 1672.7 | 1826.1 | 1793.4  | 1878.1  | 1835.8  | 1560.4  |
| 22.5° | 1507.8 | 1457.1 | 1360.1 | 1299.8 | 1458.3 | 1670.8 | 1873.0 | 2009.7  | 1995.0  | 1891.0  | 1713.8  |
| 25°   | 1730.5 | 1699.7 | 1583.5 | 1477.0 | 1491.1 | 1659.3 | 2020.6 | 2221.5  | 2265.2  | 2220.9  | 1859.5  |
| 27.5° | 2030.9 | 2023.8 | 1786.4 | 1740.1 | 1602.8 | 1608.5 | 2043.7 | 2488.6  | 2389.1  | 2319.8  | 2029.6  |
| 30°   | 2423.1 | 2367.3 | 2085.5 | 2025.1 | 1822.3 | 1722.8 | 2185.0 | 2719.0  | 2645.8  | 2551.5  | 2189.5  |
| 32.5° | 2844.8 | 2853.2 | 2493.7 | 2294.7 | 2131.7 | 2013.6 | 2129.1 | 2826.8  | 2963.6  | 2887.2  | 2389.1  |
| 35°   | 3323.7 | 3360.9 | 2921.2 | 2687.5 | 2370.5 | 2196.5 | 2369.2 | 3158.0  | 3403.2  | 3202.3  | 2656.7  |
| 37.5° | 4061.2 | 4059.9 | 3546.4 | 3081.0 | 2850.6 | 2661.9 | 2769.1 | 3459.1  | 3943.7  | 3661.3  | 3136.9  |
| 40°   | 4710.1 | 4568.9 | 4091.3 | 3556.7 | 3197.2 | 3145.9 | 3068.2 | 3871.2  | 4520.8  | 4350.7  | 3563.7  |
| 42.5° | 5194.7 | 5095.2 | 4518.2 | 4102.3 | 3656.8 | 3493.7 | 3466.1 | 4475.2  | 5372.5  | 5134.4  | 4172.9  |
| 45°   | 5774.3 | 5448.3 | 5023.3 | 4648.5 | 4194.7 | 4147.2 | 4082.4 | 5088.2  | 6363.6  | 5827.0  | 4702.4  |
| 47.5° | 6293.6 | 5986.8 | 5585.0 | 5103.6 | 4582.4 | 4973.9 | 4724.9 | 5626.7  | 7084.4  | 6580.5  | 5286.5  |
| 50°   | 6730.7 | 6404.7 | 5954.7 | 5588.2 | 5364.8 | 5630.6 | 5215.3 | 6070.3  | 7863.0  | 7454.8  | 5832.8  |
| 52.5° | 6953.5 | 6584.4 | 6236.5 | 6009.9 | 6146.6 | 6086.9 | 5880.3 | 6607.5  | 8526.7  | 8221.2  | 6316.7  |
| 55°   | 6770.5 | 6409.8 | 6264.1 | 6376.4 | 6791.7 | 6619.1 | 6635.7 | 7440.0  | 9153.2  | 8732.1  | 6737.8  |
| 57.5° | 5959.2 | 5629.9 | 5694.8 | 6002.2 | 6798.1 | 7250.0 | 7497.2 | 8248.8  | 9655.8  | 9368.9  | 7387.4  |
| 60°   | 4507.9 | 4242.8 | 4482.9 | 5028.5 | 6158.8 | 7124.2 | 8108.2 | 9057.6  | 10374.1 | 10284.2 | 8370.7  |
| 62.5° | 2753.0 | 2609.2 | 2949.4 | 3629.8 | 4907.8 | 6507.4 | 8464.5 | 10135.9 | 11142.4 | 11238.0 | 9413.8  |
| 65°   | 1404.4 | 1339.6 | 1623.3 | 2221.5 | 3315.9 | 5345.6 | 8207.1 | 10806.0 | 11936.4 | 12289.4 | 10408.1 |
| 67.5° | 884.5  | 842.8  | 994.3  | 1355.0 | 1956.4 | 3486.7 | 7185.8 | 11392.1 | 12497.4 | 12776.6 | 10739.9 |
| 70°   | 613.0  | 586.7  | 717.6  | 930.1  | 1234.3 | 1878.1 | 5335.3 | 10845.2 | 12052.6 | 12065.4 | 9936.9  |
| 72.5° | 389.0  | 368.4  | 496.2  | 688.7  | 910.8  | 969.9  | 3058.6 | 8510.0  | 10316.9 | 10198.2 | 8047.2  |
| 75°   | 252.3  | 242.0  | 315.2  | 504.5  | 699.6  | 598.2  | 1511.6 | 5742.3  | 7397.7  | 7211.5  | 5344.9  |
| 77.5° | 181.0  | 174.6  | 211.2  | 337.0  | 498.1  | 418.5  | 677.8  | 3422.5  | 4241.5  | 3834.6  | 2594.5  |
| 80°   | 109.1  | 108.5  | 152.8  | 211.2  | 354.3  | 295.3  | 313.2  | 1554.0  | 1644.5  | 1340.9  | 792.7   |
| 82.5° | 54.6   | 56.5   | 85.4   | 136.1  | 227.9  | 193.2  | 143.1  | 517.4   | 441.6   | 325.4   | 160.5   |
| 85°   | 12.8   | 16.0   | 44.9   | 93.7   | 114.3  | 77.0   | 68.0   | 135.4   | 121.3   | 91.8    | 46.9    |
| 87.5° | 0.0    | 0.0    | 14.1   | 22.5   | 30.8   | 12.8   | 23.1   | 25.7    | 32.7    | 25.7    | 9.6     |
| 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°    | 448.7  | 448.7  | 448.7 | 448.7 | 448.7 | 448.7 | 448.7 | 448.7 | 448.7 | 448.7 | 448.7 |
| 2.5°  | 540.5  | 532.8  | 485.9 | 473.7 | 472.4 | 458.9 | 462.2 | 449.3 | 450.0 | 478.8 | 478.8 |
| 5°    | 688.7  | 643.8  | 598.9 | 559.1 | 532.1 | 493.6 | 479.5 | 473.7 | 468.6 | 480.1 | 487.2 |
| 7.5°  | 808.8  | 742.7  | 661.8 | 575.1 | 494.9 | 439.7 | 432.0 | 417.9 | 412.7 | 424.3 | 433.3 |
| 10°   | 862.0  | 779.9  | 668.8 | 542.4 | 467.3 | 422.4 | 385.1 | 365.2 | 361.4 | 360.7 | 363.9 |
| 12.5° | 975.0  | 873.0  | 676.5 | 530.2 | 448.7 | 399.2 | 356.9 | 323.5 | 292.7 | 295.9 | 292.7 |
| 15°   | 1065.5 | 944.8  | 676.5 | 500.7 | 403.7 | 354.3 | 279.9 | 263.2 | 258.7 | 265.7 | 260.0 |
| 17.5° | 1202.2 | 1016.1 | 642.5 | 448.0 | 365.2 | 275.4 | 247.1 | 245.8 | 254.8 | 265.1 | 258.7 |
| 20°   | 1284.4 | 1025.7 | 585.4 | 387.7 | 299.8 | 238.8 | 228.5 | 218.2 | 231.1 | 239.4 | 236.2 |
| 22.5° | 1369.8 | 1026.4 | 528.3 | 355.6 | 241.3 | 217.6 | 200.9 | 192.6 | 194.5 | 202.2 | 203.5 |
| 25°   | 1406.4 | 1001.3 | 475.0 | 313.2 | 218.9 | 194.5 | 177.2 | 168.2 | 165.0 | 168.8 | 167.5 |
| 27.5° | 1505.8 | 953.2  | 417.2 | 267.0 | 208.0 | 172.7 | 156.6 | 145.7 | 136.1 | 142.5 | 143.8 |
| 30°   | 1520.0 | 937.8  | 385.8 | 237.5 | 193.8 | 152.8 | 138.6 | 127.1 | 120.0 | 129.0 | 129.0 |
| 32.5° | 1564.9 | 853.1  | 369.7 | 225.3 | 179.1 | 141.2 | 122.0 | 113.6 | 112.3 | 118.1 | 118.7 |
| 35°   | 1634.2 | 815.8  | 346.0 | 215.7 | 165.6 | 127.7 | 109.8 | 105.9 | 104.6 | 109.1 | 109.1 |
| 37.5° | 1869.2 | 769.6  | 319.7 | 207.3 | 154.1 | 120.7 | 106.6 | 100.1 | 100.8 | 104.6 | 107.2 |
| 40°   | 2025.1 | 775.4  | 280.5 | 197.1 | 140.6 | 114.3 | 100.1 | 95.6  | 95.0  | 96.9  | 98.8  |
| 42.5° | 2314.6 | 779.9  | 263.2 | 186.1 | 130.3 | 106.6 | 93.7  | 90.5  | 87.9  | 89.9  | 91.8  |
| 45°   | 2638.1 | 803.6  | 254.2 | 177.2 | 124.5 | 102.1 | 87.9  | 86.0  | 80.2  | 81.5  | 84.1  |
| 47.5° | 2950.1 | 890.3  | 243.3 | 164.3 | 119.4 | 99.5  | 82.2  | 77.7  | 73.8  | 73.2  | 75.7  |
| 50°   | 3304.4 | 974.4  | 231.1 | 150.2 | 114.3 | 95.6  | 76.4  | 69.3  | 66.8  | 66.8  | 68.7  |
| 52.5° | 3621.5 | 1054.6 | 219.5 | 140.6 | 110.4 | 88.6  | 71.2  | 64.2  | 62.3  | 62.3  | 64.8  |
| 55°   | 3955.3 | 1138.7 | 209.3 | 131.6 | 105.3 | 81.5  | 66.8  | 60.3  | 59.7  | 58.4  | 60.3  |
| 57.5° | 4544.5 | 1322.3 | 196.4 | 123.9 | 98.2  | 75.7  | 62.9  | 56.5  | 55.2  | 53.3  | 55.2  |
| 60°   | 5402.7 | 1604.1 | 179.7 | 116.2 | 89.9  | 71.9  | 59.7  | 52.0  | 50.1  | 46.9  | 47.5  |
| 62.5° | 6241.6 | 1831.9 | 160.5 | 106.6 | 82.2  | 68.0  | 54.6  | 46.9  | 43.6  | 39.8  | 40.4  |
| 65°   | 6960.5 | 1921.8 | 139.9 | 95.0  | 74.5  | 59.1  | 47.5  | 41.1  | 36.6  | 31.5  | 30.8  |
| 67.5° | 7045.3 | 1697.1 | 120.0 | 84.1  | 66.8  | 50.1  | 40.4  | 36.6  | 29.5  | 25.0  | 23.7  |
| 70°   | 6340.5 | 1264.5 | 100.1 | 74.5  | 57.8  | 42.4  | 34.7  | 32.1  | 27.6  | 23.7  | 21.8  |
| 72.5° | 5049.0 | 933.3  | 84.1  | 66.1  | 50.7  | 35.9  | 29.5  | 30.2  | 27.6  | 23.1  | 20.5  |
| 75°   | 3339.1 | 534.0  | 68.7  | 55.2  | 42.4  | 28.9  | 27.0  | 27.0  | 26.3  | 21.8  | 19.3  |
| 77.5° | 1606.6 | 230.4  | 52.6  | 43.6  | 34.0  | 21.8  | 24.4  | 24.4  | 25.0  | 19.9  | 16.0  |
| 80°   | 455.7  | 69.3   | 32.7  | 29.5  | 25.0  | 14.8  | 19.3  | 18.6  | 16.7  | 11.6  | 7.1   |
| 82.5° | 81.5   | 27.0   | 14.8  | 15.4  | 14.1  | 5.8   | 10.9  | 10.3  | 8.3   | 4.5   | 0.6   |
| 85°   | 22.5   | 10.3   | 8.3   | 9.0   | 7.1   | 1.9   | 4.5   | 5.8   | 4.5   | 2.6   | 0.0   |
| 87.5° | 5.8    | 4.5    | 5.8   | 6.4   | 5.1   | 0.6   | 1.9   | 0.6   | 1.9   | 0.6   | 0.0   |
| 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)