

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: P366860

Luminaire Tested: **PMM-SA1B-830-U-T4FT**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1B-830-U-T4FT  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4034 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

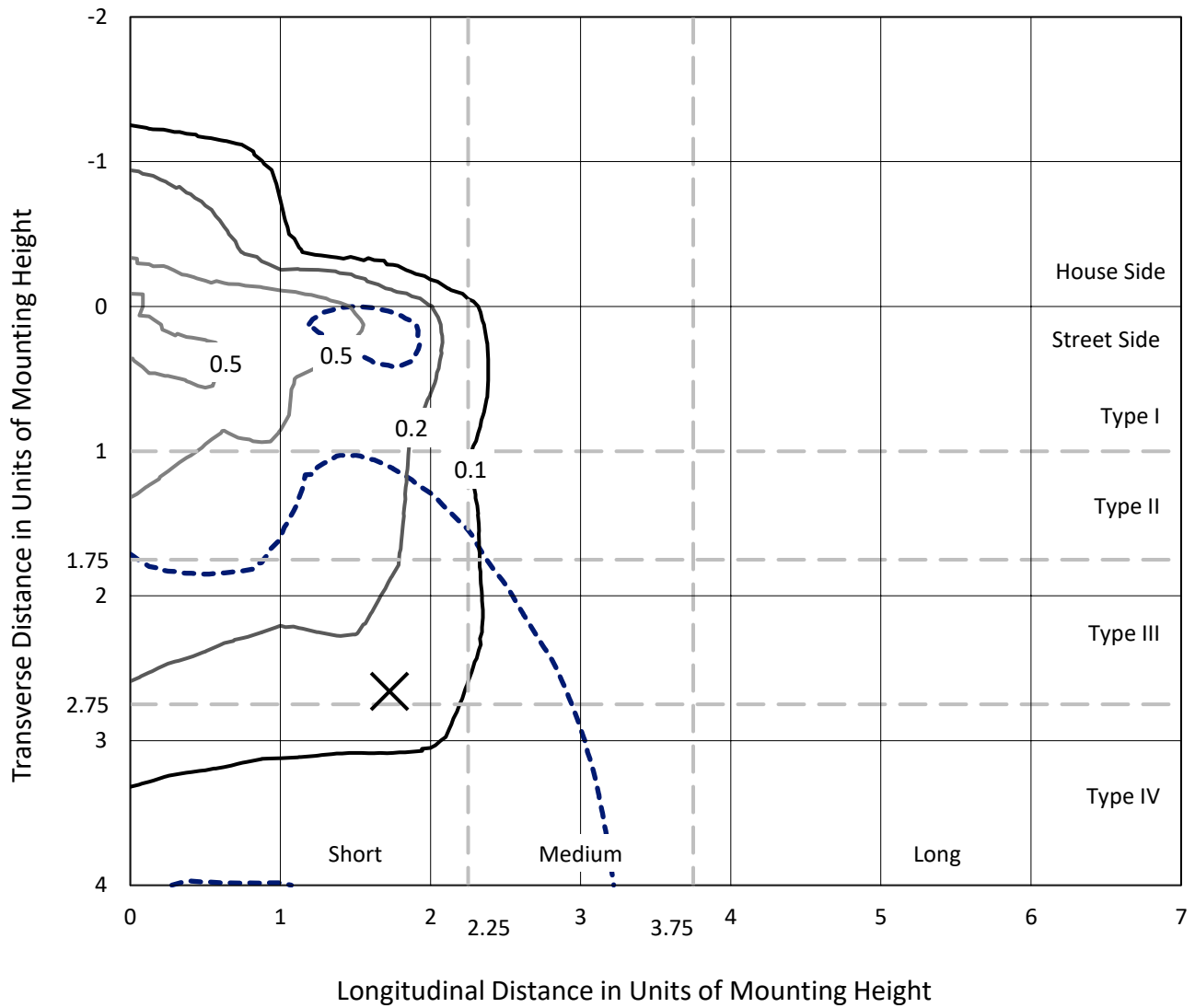
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

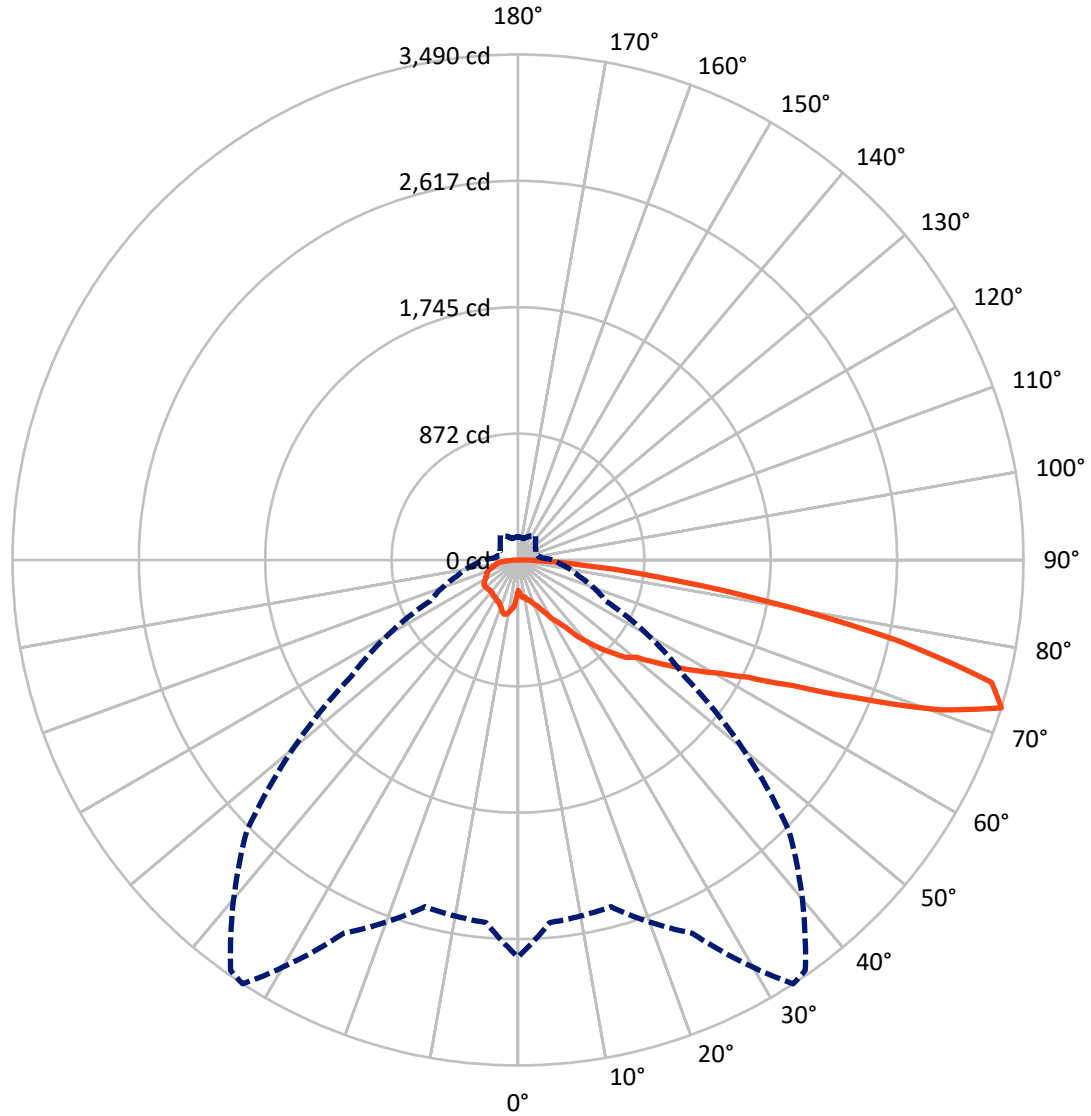
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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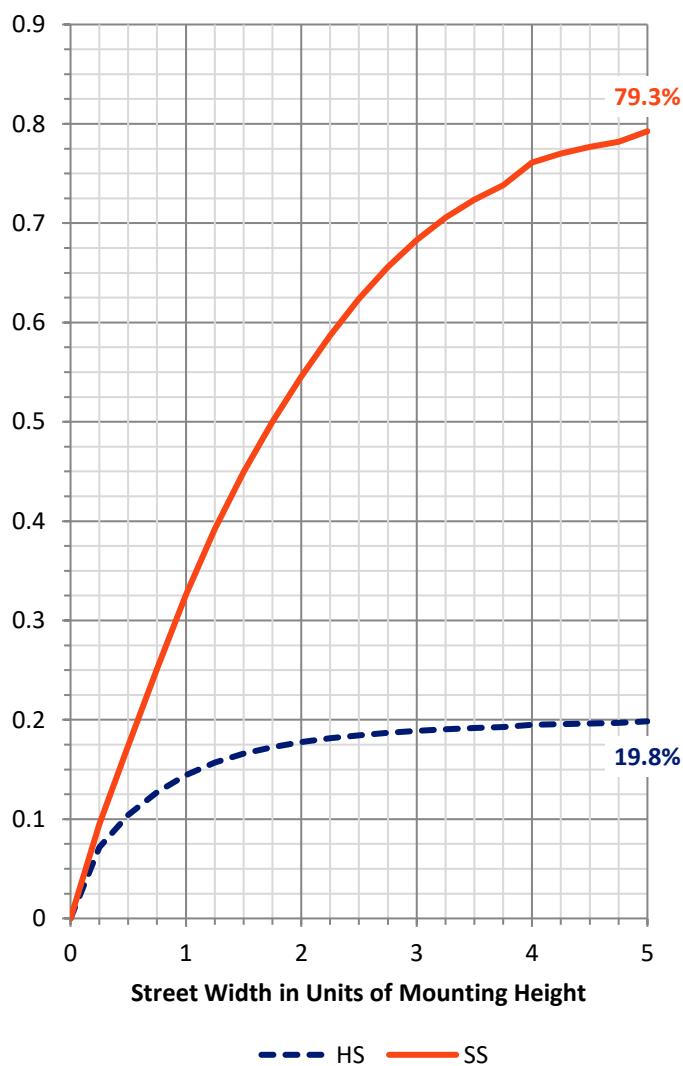
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 816.1    | 0.0    | 816.1  |
|                    | % Fixture | 20.2     | 0.0    | 20.2   |
| <b>Street Side</b> | Lumens    | 3217.9   | 0.0    | 3217.9 |
|                    | % Fixture | 79.8     | 0.0    | 79.8   |
| <b>Total</b>       | Lumens    | 4034.0   | 0.0    | 4034.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.1   | 0.7       |
| 10°-20°   | 107.5  | 2.7       |
| 20°-30°   | 196.0  | 4.9       |
| 30°-40°   | 331.6  | 8.2       |
| 40°-50°   | 551.6  | 13.7      |
| 50°-60°   | 809.6  | 20.1      |
| 60°-70°   | 1035.6 | 25.7      |
| 70°-80°   | 842.6  | 20.9      |
| 80°-90°   | 130.5  | 3.2       |
| 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°    | 4034.0 | 100.0     |
| 0°-180°   | 4034.0 | 100.0     |

**Coefficient of Utilization**

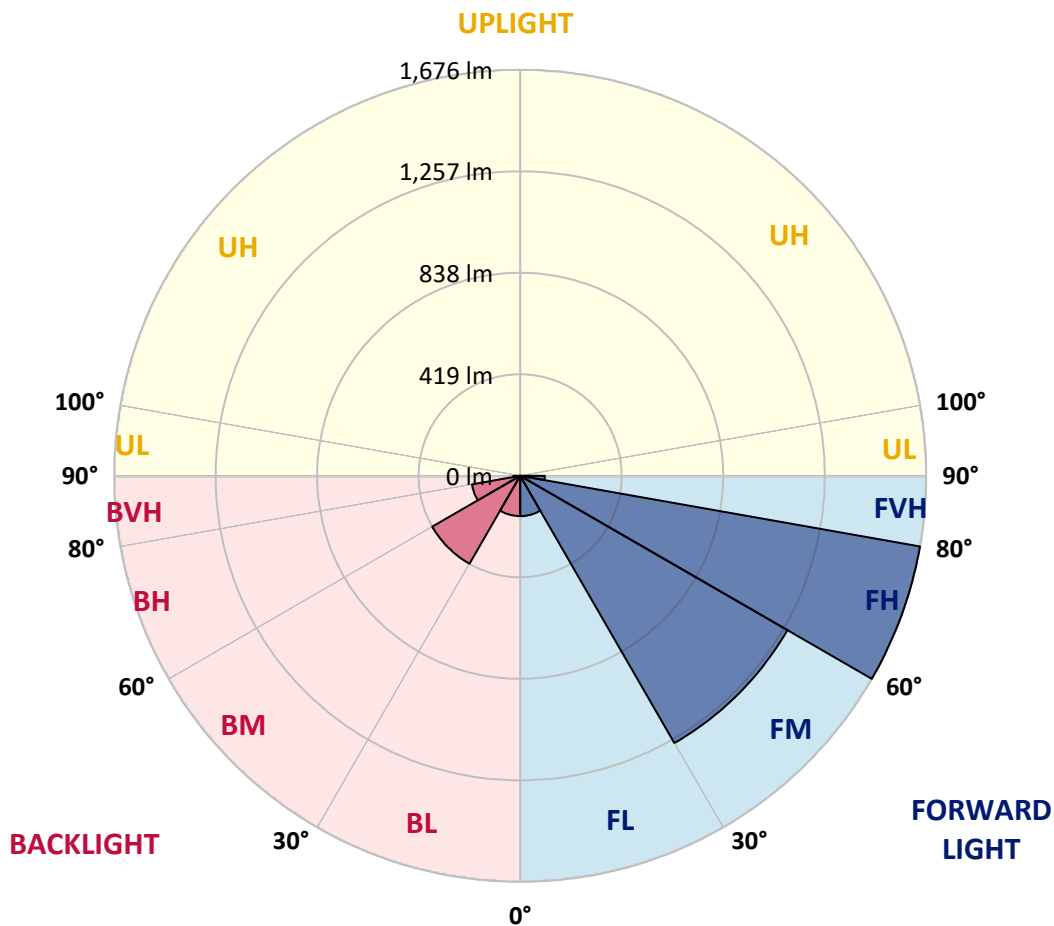


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 166.5  | 4.1       |                         |      |         |
| FM (30°-60°)   | 1273.6 | 31.6      |                         |      |         |
| FH (60°-80°)   | 1676.0 | 41.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 101.8  | 2.5       |                         |      | G2/225  |
| BL (0°-30°)    | 166.1  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 419.1  | 10.4      | B1/1000                 |      |         |
| BH (60°-80°)   | 202.2  | 5.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 28.6   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 33°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 211.5  | 211.5  | 211.5  | 211.5  | 211.5  | 211.5  | 211.5  | 211.5  | 211.5  | 211.5  | 211.5  |
| 2.5°  | 239.8  | 232.3  | 219.9  | 219.6  | 226.4  | 227.9  | 232.4  | 232.8  | 234.5  | 231.8  | 250.9  |
| 5°    | 264.6  | 256.5  | 251.7  | 253.4  | 250.2  | 254.0  | 254.0  | 265.1  | 279.8  | 296.9  | 321.1  |
| 7.5°  | 270.4  | 264.6  | 259.1  | 263.2  | 263.9  | 260.2  | 263.7  | 289.7  | 316.3  | 333.4  | 372.2  |
| 10°   | 258.7  | 252.9  | 257.0  | 258.4  | 258.2  | 266.6  | 284.8  | 305.6  | 335.2  | 366.7  | 387.6  |
| 12.5° | 256.5  | 260.7  | 262.7  | 265.1  | 281.0  | 283.5  | 311.1  | 332.5  | 362.3  | 389.9  | 444.3  |
| 15°   | 288.8  | 294.4  | 282.0  | 281.1  | 286.3  | 288.7  | 317.3  | 338.9  | 382.4  | 428.7  | 477.6  |
| 17.5° | 334.9  | 336.9  | 314.6  | 303.2  | 307.1  | 308.9  | 321.5  | 348.6  | 375.4  | 461.0  | 522.0  |
| 20°   | 379.4  | 380.7  | 338.9  | 313.4  | 327.0  | 329.0  | 340.7  | 356.3  | 377.4  | 479.1  | 551.9  |
| 22.5° | 426.1  | 417.5  | 371.7  | 339.5  | 347.4  | 347.9  | 354.8  | 363.3  | 393.3  | 476.3  | 588.4  |
| 25°   | 477.1  | 471.8  | 414.0  | 383.2  | 382.9  | 376.0  | 376.4  | 388.6  | 410.2  | 506.7  | 612.3  |
| 27.5° | 544.9  | 545.6  | 461.7  | 445.1  | 419.2  | 414.7  | 392.1  | 414.9  | 439.5  | 507.1  | 664.0  |
| 30°   | 632.7  | 616.5  | 528.1  | 501.4  | 475.8  | 466.2  | 435.6  | 455.0  | 465.7  | 536.0  | 720.3  |
| 32.5° | 704.2  | 699.5  | 597.4  | 556.9  | 515.1  | 526.1  | 492.3  | 475.3  | 494.5  | 585.9  | 805.4  |
| 35°   | 772.6  | 757.2  | 670.7  | 618.0  | 574.0  | 567.3  | 545.4  | 548.2  | 559.9  | 649.0  | 916.7  |
| 37.5° | 874.7  | 866.4  | 774.5  | 690.1  | 669.6  | 642.3  | 628.4  | 637.3  | 628.1  | 729.8  | 1083.6 |
| 40°   | 988.9  | 940.3  | 861.2  | 786.0  | 747.5  | 728.3  | 733.1  | 724.8  | 717.8  | 820.5  | 1233.2 |
| 42.5° | 1098.1 | 1054.0 | 918.7  | 884.9  | 834.7  | 842.8  | 816.2  | 822.0  | 841.9  | 949.2  | 1371.6 |
| 45°   | 1217.1 | 1121.6 | 979.8  | 950.0  | 914.1  | 924.3  | 945.5  | 939.2  | 971.8  | 1101.0 | 1501.9 |
| 47.5° | 1276.5 | 1185.7 | 1054.8 | 1006.3 | 1005.8 | 984.5  | 1113.9 | 1127.9 | 1076.9 | 1213.4 | 1634.3 |
| 50°   | 1333.8 | 1244.4 | 1110.5 | 1077.7 | 1054.0 | 1099.5 | 1275.4 | 1243.1 | 1171.9 | 1342.5 | 1779.9 |
| 52.5° | 1413.4 | 1311.5 | 1174.4 | 1139.5 | 1168.9 | 1211.1 | 1404.2 | 1397.9 | 1265.1 | 1475.2 | 1906.4 |
| 55°   | 1474.2 | 1371.2 | 1270.7 | 1238.2 | 1294.4 | 1335.8 | 1535.4 | 1497.1 | 1345.0 | 1572.6 | 1986.6 |
| 57.5° | 1580.6 | 1475.0 | 1412.7 | 1340.6 | 1441.7 | 1441.0 | 1661.9 | 1632.3 | 1430.3 | 1652.6 | 2018.9 |
| 60°   | 1749.8 | 1625.8 | 1560.7 | 1477.5 | 1585.8 | 1624.4 | 1806.5 | 1721.2 | 1490.7 | 1703.1 | 1960.6 |
| 62.5° | 1987.3 | 1840.0 | 1734.4 | 1652.1 | 1784.1 | 1854.0 | 1985.1 | 1785.9 | 1494.6 | 1688.7 | 1807.5 |
| 65°   | 2280.9 | 2101.9 | 1963.5 | 1876.5 | 2094.4 | 2194.3 | 2201.0 | 1825.9 | 1459.1 | 1539.9 | 1485.5 |
| 67.5° | 2567.4 | 2366.1 | 2221.7 | 2238.3 | 2556.4 | 2603.8 | 2434.9 | 1859.4 | 1268.5 | 1236.5 | 1031.5 |
| 70°   | 2756.0 | 2537.8 | 2441.6 | 2617.3 | 3100.6 | 3052.1 | 2624.5 | 1771.2 | 998.9  | 801.6  | 580.9  |
| 72.5° | 2741.8 | 2513.4 | 2478.8 | 2842.6 | 3489.9 | 3459.6 | 2647.6 | 1408.6 | 669.1  | 438.3  | 289.7  |
| 75°   | 2233.8 | 2056.2 | 2134.9 | 2690.9 | 3377.7 | 3376.2 | 2298.7 | 871.9  | 343.2  | 225.1  | 183.1  |
| 77.5° | 1235.0 | 1166.1 | 1397.2 | 2037.5 | 2689.4 | 2703.2 | 1553.2 | 395.4  | 185.1  | 159.5  | 137.9  |
| 80°   | 432.6  | 426.2  | 605.5  | 1099.5 | 1769.2 | 1772.5 | 722.3  | 180.9  | 134.5  | 120.7  | 101.2  |
| 82.5° | 158.1  | 156.8  | 251.0  | 510.7  | 974.1  | 972.0  | 273.9  | 112.6  | 99.7   | 85.3   | 66.8   |
| 85°   | 63.1   | 61.8   | 114.8  | 226.8  | 447.5  | 440.3  | 106.4  | 63.9   | 65.3   | 50.9   | 32.8   |
| 87.5° | 17.4   | 18.1   | 39.0   | 71.0   | 137.1  | 127.0  | 26.8   | 21.6   | 26.4   | 20.8   | 10.4   |
| 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°    | 211.5  | 211.5  | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 |
| 2.5°  | 254.2  | 255.9  | 239.3 | 245.2 | 252.7 | 256.7 | 258.7 | 250.2 | 253.0 | 265.1 | 264.6 |
| 5°    | 326.2  | 319.5  | 313.1 | 319.6 | 315.3 | 309.1 | 319.1 | 318.6 | 325.2 | 331.7 | 333.2 |
| 7.5°  | 379.9  | 371.2  | 368.2 | 353.4 | 338.7 | 323.8 | 336.7 | 344.7 | 346.4 | 362.6 | 369.5 |
| 10°   | 399.3  | 395.9  | 397.1 | 377.7 | 375.9 | 377.4 | 365.5 | 352.6 | 360.5 | 353.8 | 358.8 |
| 12.5° | 444.1  | 452.5  | 431.8 | 418.5 | 417.4 | 408.2 | 384.4 | 376.0 | 367.2 | 376.4 | 371.7 |
| 15°   | 480.1  | 495.7  | 473.4 | 450.2 | 423.9 | 409.7 | 389.4 | 376.7 | 370.8 | 372.9 | 367.2 |
| 17.5° | 532.8  | 547.4  | 490.8 | 455.2 | 428.1 | 407.2 | 376.2 | 349.1 | 363.5 | 364.7 | 358.1 |
| 20°   | 567.8  | 568.8  | 496.7 | 442.8 | 418.4 | 382.1 | 351.9 | 328.2 | 344.7 | 361.6 | 369.0 |
| 22.5° | 601.9  | 594.4  | 503.9 | 432.9 | 383.1 | 347.9 | 333.2 | 331.7 | 344.1 | 358.3 | 360.0 |
| 25°   | 627.6  | 628.7  | 508.1 | 429.2 | 362.3 | 314.4 | 314.4 | 325.3 | 336.2 | 370.0 | 368.3 |
| 27.5° | 689.6  | 644.0  | 491.8 | 412.3 | 333.5 | 294.9 | 314.6 | 329.2 | 334.4 | 371.0 | 374.7 |
| 30°   | 734.8  | 705.0  | 495.2 | 383.4 | 304.4 | 285.7 | 301.9 | 320.1 | 334.5 | 376.9 | 375.5 |
| 32.5° | 810.6  | 730.5  | 503.0 | 342.7 | 282.6 | 282.1 | 296.5 | 315.8 | 333.0 | 370.5 | 372.5 |
| 35°   | 894.5  | 805.4  | 481.1 | 311.8 | 277.5 | 280.1 | 298.7 | 306.4 | 326.7 | 368.0 | 369.8 |
| 37.5° | 1049.6 | 844.6  | 467.2 | 287.8 | 274.1 | 281.8 | 288.8 | 300.7 | 321.1 | 355.4 | 367.5 |
| 40°   | 1140.6 | 925.3  | 415.7 | 273.9 | 267.1 | 280.5 | 284.0 | 294.0 | 305.1 | 340.4 | 348.1 |
| 42.5° | 1260.5 | 950.7  | 371.7 | 258.6 | 263.6 | 275.0 | 285.5 | 288.0 | 295.4 | 316.6 | 330.7 |
| 45°   | 1360.4 | 969.8  | 325.0 | 246.2 | 251.7 | 287.2 | 287.8 | 286.7 | 285.3 | 293.2 | 304.7 |
| 47.5° | 1463.8 | 1021.0 | 282.0 | 232.4 | 247.2 | 297.2 | 289.0 | 278.3 | 272.8 | 273.8 | 284.5 |
| 50°   | 1577.9 | 1058.1 | 251.5 | 221.2 | 248.2 | 297.2 | 294.7 | 269.8 | 258.7 | 255.9 | 267.1 |
| 52.5° | 1678.3 | 1062.5 | 228.4 | 212.2 | 244.0 | 287.0 | 298.5 | 264.4 | 245.8 | 239.0 | 249.5 |
| 55°   | 1733.1 | 1007.4 | 211.7 | 204.0 | 233.3 | 277.8 | 296.5 | 261.4 | 230.3 | 225.1 | 234.5 |
| 57.5° | 1731.9 | 916.1  | 197.5 | 192.6 | 221.1 | 264.9 | 285.3 | 245.0 | 220.7 | 217.7 | 226.9 |
| 60°   | 1669.5 | 809.0  | 186.6 | 183.2 | 208.5 | 246.2 | 265.2 | 234.3 | 211.5 | 210.0 | 220.1 |
| 62.5° | 1527.9 | 698.3  | 176.0 | 173.4 | 196.8 | 232.9 | 255.7 | 222.4 | 202.0 | 201.8 | 211.4 |
| 65°   | 1251.3 | 560.6  | 166.2 | 165.5 | 185.9 | 219.9 | 246.7 | 212.4 | 192.1 | 195.5 | 205.2 |
| 67.5° | 862.2  | 393.9  | 155.6 | 157.6 | 175.9 | 207.3 | 239.8 | 205.7 | 181.7 | 188.6 | 197.3 |
| 70°   | 473.1  | 243.7  | 143.9 | 147.9 | 163.2 | 192.8 | 229.1 | 194.8 | 168.2 | 178.7 | 184.8 |
| 72.5° | 240.6  | 162.5  | 129.4 | 135.7 | 147.6 | 171.4 | 209.0 | 179.1 | 153.6 | 157.6 | 160.8 |
| 75°   | 161.7  | 122.3  | 113.1 | 120.2 | 128.7 | 150.9 | 185.4 | 164.3 | 139.7 | 139.2 | 142.7 |
| 77.5° | 122.2  | 95.6   | 96.1  | 104.1 | 109.6 | 132.7 | 166.7 | 152.0 | 128.0 | 126.8 | 132.0 |
| 80°   | 89.4   | 72.5   | 77.3  | 85.7  | 90.7  | 119.2 | 154.5 | 138.2 | 112.1 | 107.4 | 111.8 |
| 82.5° | 59.2   | 51.4   | 57.2  | 65.6  | 69.6  | 99.6  | 140.2 | 117.3 | 91.4  | 79.5  | 80.2  |
| 85°   | 27.9   | 26.9   | 34.1  | 38.2  | 43.3  | 61.8  | 104.9 | 81.2  | 58.2  | 48.2  | 50.4  |
| 87.5° | 6.4    | 8.5    | 11.2  | 11.0  | 12.9  | 16.6  | 32.6  | 22.8  | 16.9  | 11.5  | 7.7   |
| 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)