

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: P367684

Luminaire Tested: **PMM-SA3A-730-U-SL3**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3A-730-U-SL3  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10482 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

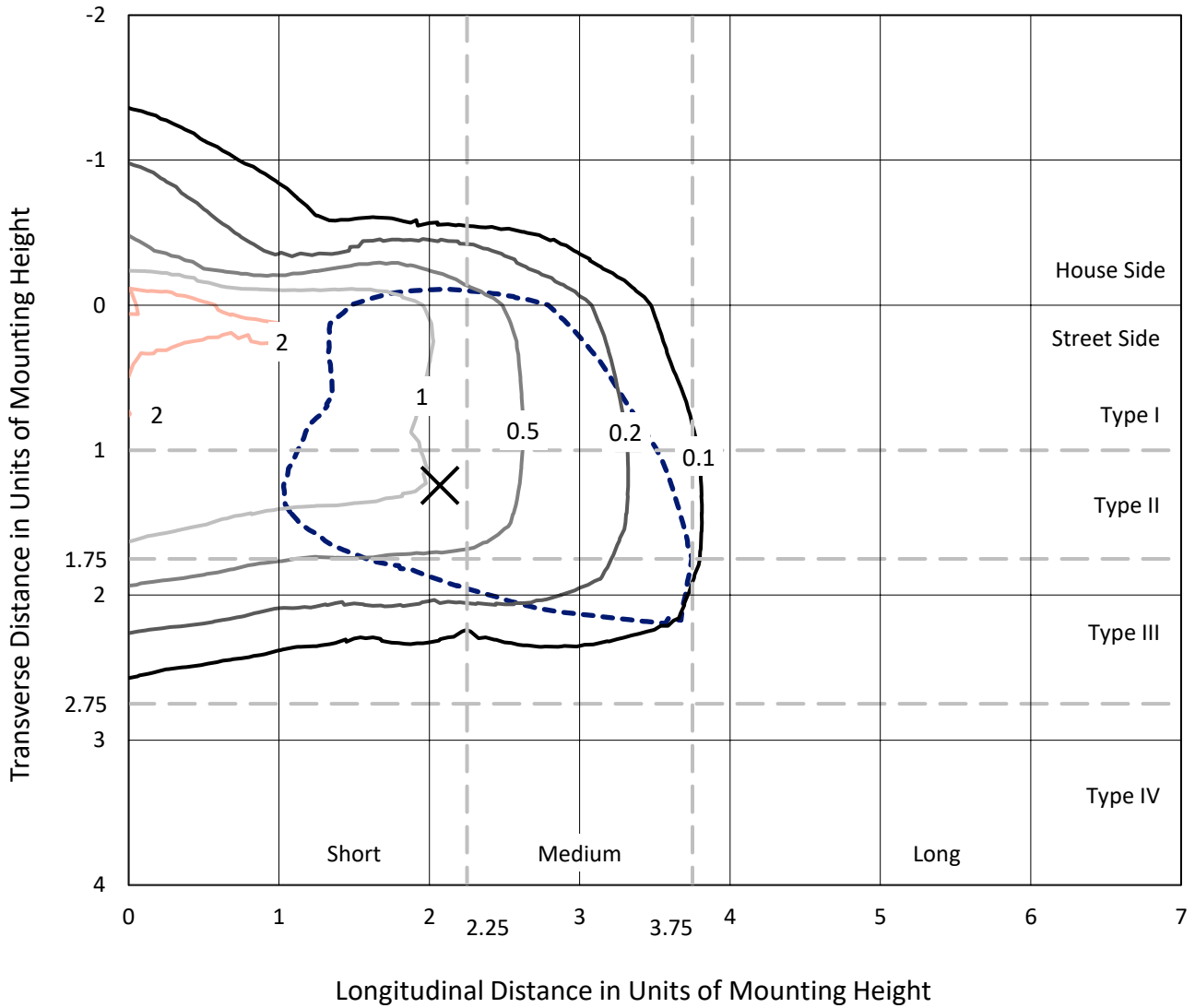
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

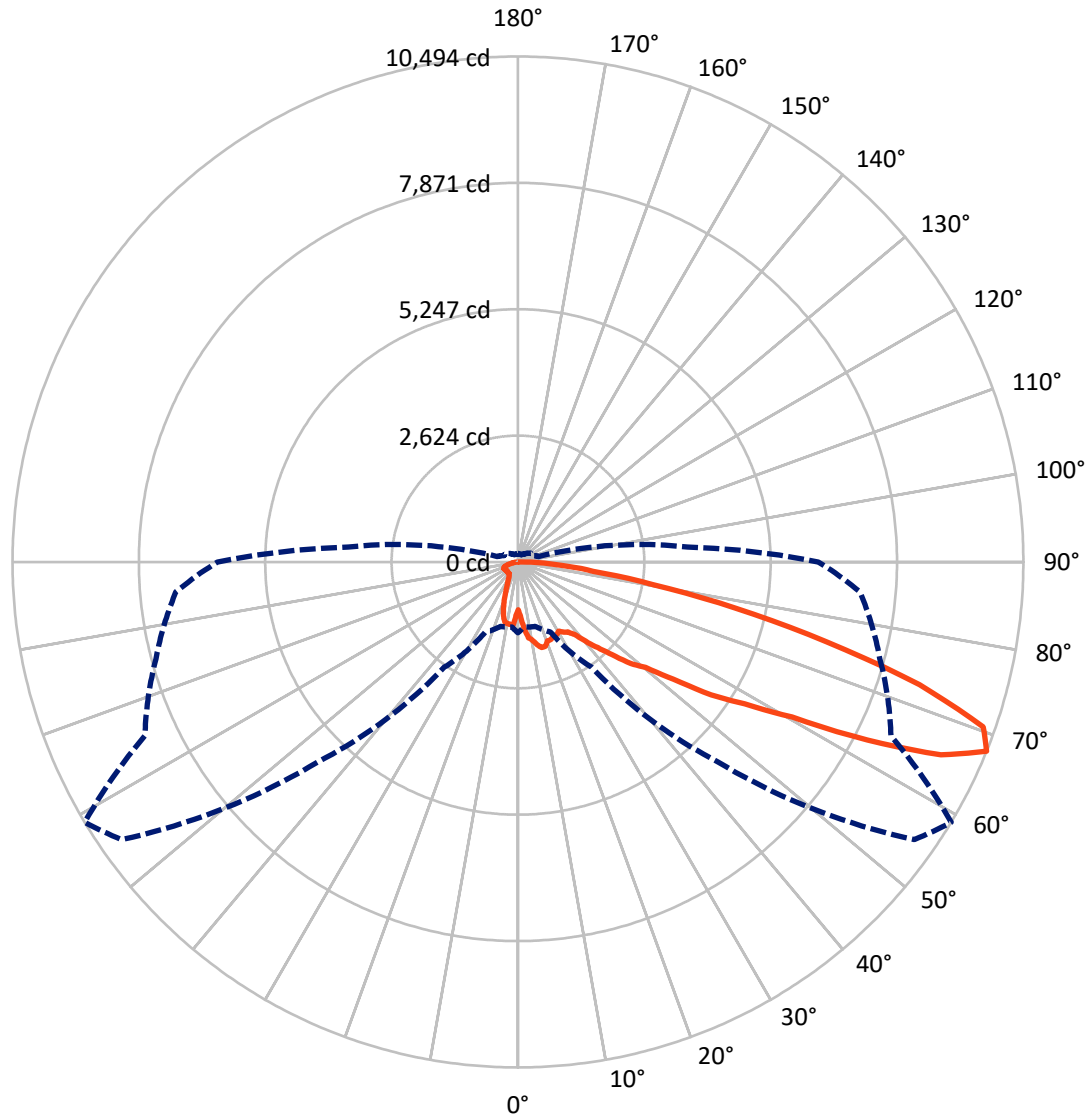
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1577.8   | 0.0    | 1577.8  |
|                    | % Fixture | 15.1     | 0.0    | 15.1    |
| <b>Street Side</b> | Lumens    | 8904.2   | 0.0    | 8904.2  |
|                    | % Fixture | 84.9     | 0.0    | 84.9    |
| <b>Total</b>       | Lumens    | 10482.0  | 0.0    | 10482.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 129.5   | 1.2       |
| 10°-20°   | 383.3   | 3.7       |
| 20°-30°   | 547.5   | 5.2       |
| 30°-40°   | 806.7   | 7.7       |
| 40°-50°   | 1362.9  | 13.0      |
| 50°-60°   | 2371.8  | 22.6      |
| 60°-70°   | 3022.4  | 28.8      |
| 70°-80°   | 1600.4  | 15.3      |
| 80°-90°   | 257.4   | 2.5       |
| 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°    | 10482.0 | 100.0     |
| 0°-180°   | 10482.0 | 100.0     |

**Coefficient of Utilization**



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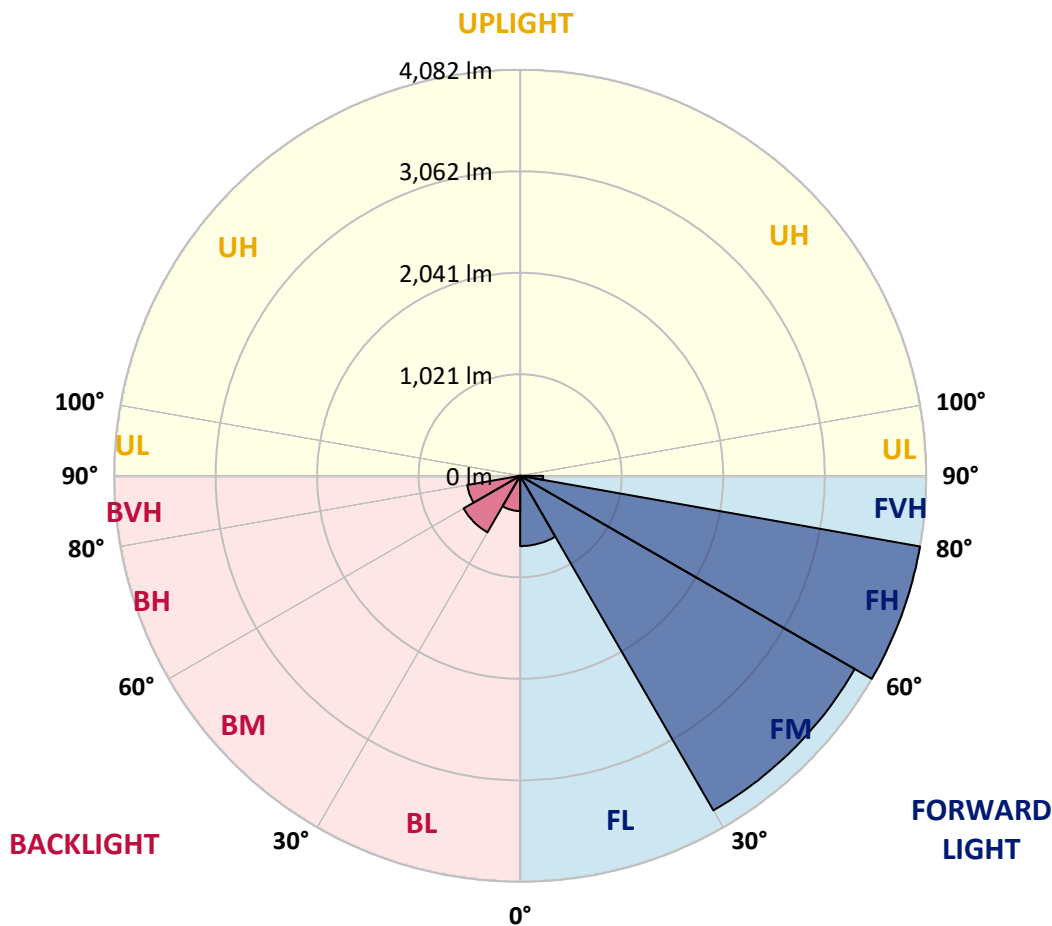
CATALOG NUMBER: PMM-SA3A-730-U-SL3

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 706.5  | 6.7       |                         |      |         |
| FM (30°-60°)   | 3884.5 | 37.1      |                         |      |         |
| FH (60°-80°)   | 4082.0 | 38.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 231.2  | 2.2       |                         |      | G3/500  |
| BL (0°-30°)    | 353.8  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 657.0  | 6.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 540.8  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 26.2   | 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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0°    | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9   | 991.9   | 991.9  | 991.9  | 991.9  |
| 2.5°  | 1238.4 | 1180.7 | 1119.4 | 1136.7 | 1171.8 | 1187.8 | 1170.4  | 1153.6  | 1131.8 | 1106.0 | 1194.0 |
| 5°    | 1501.8 | 1416.1 | 1403.6 | 1403.2 | 1390.8 | 1341.0 | 1405.0  | 1400.5  | 1426.3 | 1452.9 | 1521.3 |
| 7.5°  | 1576.9 | 1544.9 | 1510.2 | 1526.7 | 1464.0 | 1461.4 | 1560.9  | 1589.3  | 1639.1 | 1622.6 | 1714.6 |
| 10°   | 1538.2 | 1502.2 | 1520.5 | 1513.8 | 1519.6 | 1585.3 | 1646.2  | 1647.9  | 1701.2 | 1753.7 | 1694.6 |
| 12.5° | 1470.3 | 1472.9 | 1545.3 | 1542.7 | 1635.9 | 1758.1 | 1776.3  | 1762.1  | 1849.2 | 1813.6 | 1864.3 |
| 15°   | 1518.7 | 1551.1 | 1532.9 | 1548.4 | 1585.3 | 1740.8 | 1791.4  | 1842.9  | 1925.6 | 1957.5 | 1906.9 |
| 17.5° | 1596.0 | 1613.3 | 1531.6 | 1523.1 | 1599.1 | 1672.8 | 1798.5  | 1842.5  | 1855.4 | 2083.2 | 2011.7 |
| 20°   | 1563.1 | 1598.2 | 1518.2 | 1415.6 | 1541.8 | 1639.5 | 1763.4  | 1750.1  | 1812.7 | 2093.0 | 2033.5 |
| 22.5° | 1656.4 | 1598.2 | 1496.5 | 1423.6 | 1468.0 | 1557.8 | 1663.0  | 1750.5  | 1824.7 | 2035.7 | 2065.0 |
| 25°   | 1674.1 | 1646.6 | 1551.6 | 1479.1 | 1464.0 | 1496.0 | 1646.2  | 1703.5  | 1828.7 | 2113.9 | 2048.2 |
| 27.5° | 1782.5 | 1741.2 | 1547.6 | 1549.8 | 1474.7 | 1418.3 | 1592.9  | 1713.2  | 1874.0 | 2065.5 | 2089.5 |
| 30°   | 1917.1 | 1885.6 | 1642.6 | 1651.5 | 1547.6 | 1443.6 | 1629.3  | 1665.7  | 1900.2 | 2141.0 | 2141.4 |
| 32.5° | 2017.9 | 2073.5 | 1829.6 | 1708.8 | 1671.9 | 1594.2 | 1573.3  | 1737.2  | 1869.6 | 2277.8 | 2230.3 |
| 35°   | 2199.6 | 2242.7 | 1973.5 | 1876.7 | 1751.9 | 1664.4 | 1725.2  | 1784.3  | 1997.1 | 2457.7 | 2362.2 |
| 37.5° | 2535.9 | 2486.1 | 2240.9 | 2088.6 | 2041.9 | 1915.8 | 1949.5  | 1908.2  | 2135.7 | 2659.8 | 2620.7 |
| 40°   | 2730.4 | 2687.3 | 2429.3 | 2344.9 | 2160.1 | 2176.1 | 2133.9  | 2164.1  | 2320.9 | 2874.8 | 2862.4 |
| 42.5° | 2922.3 | 2864.6 | 2646.5 | 2587.8 | 2403.5 | 2325.3 | 2332.9  | 2430.6  | 2606.5 | 3222.1 | 3180.8 |
| 45°   | 3112.0 | 2964.1 | 2868.6 | 2884.1 | 2795.3 | 2634.9 | 2646.0  | 2738.0  | 2918.3 | 3619.3 | 3524.2 |
| 47.5° | 3257.2 | 3135.1 | 3060.5 | 3041.4 | 2997.4 | 3211.9 | 3116.0  | 3153.3  | 3232.8 | 3972.8 | 3936.8 |
| 50°   | 3532.2 | 3389.6 | 3292.3 | 3264.8 | 3414.0 | 3712.5 | 3517.1  | 3436.7  | 3605.9 | 4429.9 | 4411.2 |
| 52.5° | 3972.4 | 3794.7 | 3632.6 | 3630.8 | 3846.7 | 4040.3 | 4178.0  | 4039.5  | 4101.6 | 4898.1 | 4951.4 |
| 55°   | 4356.6 | 4150.9 | 4005.3 | 4085.6 | 4393.0 | 4511.6 | 4979.4  | 4871.0  | 4818.6 | 5370.7 | 5523.0 |
| 57.5° | 4500.1 | 4259.8 | 4164.7 | 4283.3 | 4736.4 | 5345.8 | 5840.2  | 5555.0  | 5503.9 | 5905.5 | 6224.9 |
| 60°   | 4185.1 | 3931.1 | 3936.8 | 4160.3 | 4945.2 | 5958.3 | 6781.4  | 6539.3  | 6240.0 | 6571.3 | 6883.1 |
| 62.5° | 3287.9 | 3058.2 | 3207.9 | 3547.7 | 4770.1 | 6553.6 | 8042.9  | 8145.1  | 7080.8 | 7123.5 | 7248.3 |
| 65°   | 2234.7 | 2075.7 | 2210.7 | 2543.4 | 3868.9 | 6878.3 | 9244.5  | 9654.0  | 7846.6 | 7485.0 | 7406.0 |
| 67.5° | 1470.7 | 1358.3 | 1384.5 | 1605.7 | 2663.4 | 5863.7 | 10048.0 | 10494.4 | 8546.6 | 7781.7 | 7127.9 |
| 70°   | 1138.9 | 1048.3 | 1036.7 | 1152.7 | 1579.5 | 4073.7 | 9571.8  | 10250.5 | 8973.1 | 7503.7 | 6212.9 |
| 72.5° | 893.7  | 824.9  | 831.1  | 942.6  | 1223.3 | 2260.0 | 7406.8  | 8716.8  | 8330.8 | 6471.4 | 4773.3 |
| 75°   | 696.9  | 640.5  | 672.1  | 799.5  | 1131.3 | 1404.5 | 5110.4  | 6615.7  | 6440.7 | 4791.9 | 2722.4 |
| 77.5° | 505.9  | 469.5  | 514.4  | 680.9  | 1063.4 | 1205.1 | 3181.3  | 4615.6  | 4126.1 | 2460.4 | 934.1  |
| 80°   | 331.8  | 311.4  | 348.2  | 555.2  | 964.3  | 1159.8 | 1966.0  | 2828.1  | 2038.8 | 691.2  | 353.6  |
| 82.5° | 195.4  | 186.6  | 217.2  | 375.8  | 775.1  | 1086.9 | 1311.2  | 1571.5  | 834.2  | 292.3  | 187.9  |
| 85°   | 102.6  | 95.9   | 128.8  | 215.9  | 534.4  | 992.3  | 1032.3  | 940.8   | 402.9  | 127.0  | 89.7   |
| 87.5° | 34.2   | 33.3   | 54.6   | 83.5   | 202.1  | 526.8  | 550.8   | 446.9   | 166.1  | 36.9   | 19.5   |
| 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°    | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  | 991.9  |
| 2.5°  | 1206.0 | 1188.2 | 1086.0 | 1100.3 | 1113.6 | 1106.9 | 1102.9 | 1056.7 | 1052.3 | 1118.0 | 1112.7 |
| 5°    | 1519.6 | 1445.8 | 1358.8 | 1354.8 | 1297.5 | 1238.8 | 1250.4 | 1231.7 | 1237.1 | 1264.2 | 1266.8 |
| 7.5°  | 1685.3 | 1593.3 | 1510.2 | 1375.2 | 1260.6 | 1167.8 | 1182.4 | 1178.0 | 1166.0 | 1227.3 | 1243.7 |
| 10°   | 1682.1 | 1600.4 | 1506.7 | 1343.2 | 1265.9 | 1190.4 | 1099.8 | 1014.1 | 988.8  | 958.6  | 961.2  |
| 12.5° | 1793.2 | 1720.8 | 1516.5 | 1349.9 | 1245.1 | 1114.9 | 945.2  | 851.5  | 761.8  | 760.0  | 737.4  |
| 15°   | 1827.8 | 1774.5 | 1537.3 | 1311.7 | 1098.9 | 912.4  | 736.9  | 635.2  | 570.3  | 557.5  | 538.4  |
| 17.5° | 1915.3 | 1831.8 | 1473.8 | 1188.2 | 929.2  | 713.4  | 553.9  | 482.8  | 477.5  | 486.4  | 476.6  |
| 20°   | 1921.1 | 1785.6 | 1359.2 | 1005.6 | 746.7  | 540.6  | 451.7  | 416.2  | 435.3  | 457.1  | 456.2  |
| 22.5° | 1916.2 | 1727.5 | 1260.2 | 850.2  | 561.0  | 434.4  | 395.8  | 387.8  | 405.5  | 438.0  | 442.0  |
| 25°   | 1866.5 | 1708.4 | 1136.2 | 698.3  | 455.3  | 372.2  | 361.6  | 366.5  | 388.7  | 426.9  | 426.9  |
| 27.5° | 1918.5 | 1630.6 | 980.8  | 568.1  | 382.9  | 331.4  | 338.9  | 351.4  | 367.8  | 411.3  | 419.3  |
| 30°   | 1901.6 | 1656.4 | 855.5  | 457.5  | 337.6  | 302.9  | 319.8  | 332.3  | 350.9  | 396.2  | 400.2  |
| 32.5° | 1946.9 | 1587.5 | 750.2  | 384.7  | 307.8  | 291.8  | 295.8  | 312.7  | 337.1  | 372.7  | 379.8  |
| 35°   | 2016.2 | 1612.8 | 629.4  | 346.0  | 293.2  | 279.0  | 286.5  | 299.8  | 324.3  | 358.9  | 364.7  |
| 37.5° | 2237.4 | 1611.5 | 545.9  | 324.7  | 290.5  | 276.3  | 279.8  | 289.2  | 317.6  | 349.1  | 362.5  |
| 40°   | 2379.5 | 1703.9 | 470.0  | 319.8  | 287.4  | 275.0  | 271.8  | 282.1  | 304.7  | 342.0  | 351.4  |
| 42.5° | 2646.5 | 1760.3 | 437.1  | 318.0  | 286.9  | 267.4  | 264.3  | 276.3  | 298.5  | 333.1  | 347.4  |
| 45°   | 2928.5 | 1840.7 | 410.9  | 317.2  | 285.6  | 266.1  | 256.7  | 271.8  | 290.5  | 323.8  | 340.2  |
| 47.5° | 3260.3 | 2010.8 | 396.2  | 314.0  | 282.9  | 267.8  | 254.1  | 261.6  | 282.5  | 315.8  | 332.3  |
| 50°   | 3694.8 | 2236.0 | 399.3  | 309.6  | 286.9  | 268.3  | 250.1  | 253.6  | 272.7  | 305.2  | 322.0  |
| 52.5° | 4222.9 | 2584.7 | 419.3  | 311.4  | 289.6  | 266.1  | 248.3  | 246.5  | 263.0  | 291.4  | 308.3  |
| 55°   | 4859.4 | 3079.6 | 479.3  | 319.8  | 289.6  | 265.6  | 245.6  | 237.6  | 250.1  | 273.2  | 289.6  |
| 57.5° | 5627.4 | 3652.6 | 596.5  | 323.8  | 287.4  | 263.0  | 239.9  | 225.6  | 233.2  | 252.3  | 267.8  |
| 60°   | 6287.0 | 4115.0 | 717.4  | 326.5  | 291.8  | 256.7  | 228.3  | 210.5  | 215.4  | 230.1  | 243.9  |
| 62.5° | 6623.3 | 4244.7 | 753.8  | 324.3  | 303.8  | 252.7  | 214.5  | 194.6  | 195.0  | 207.4  | 219.9  |
| 65°   | 6686.4 | 4071.9 | 607.7  | 322.0  | 319.4  | 252.3  | 204.8  | 180.8  | 177.7  | 186.6  | 197.2  |
| 67.5° | 6236.9 | 3534.4 | 438.4  | 317.2  | 321.1  | 249.6  | 198.1  | 169.7  | 161.7  | 167.9  | 176.8  |
| 70°   | 5295.6 | 2846.4 | 368.2  | 307.4  | 299.8  | 236.3  | 186.6  | 158.1  | 147.5  | 151.9  | 158.6  |
| 72.5° | 3947.9 | 2105.9 | 321.1  | 286.5  | 261.2  | 202.1  | 168.8  | 145.2  | 134.1  | 137.3  | 142.1  |
| 75°   | 2193.4 | 1123.4 | 268.7  | 249.2  | 213.2  | 163.5  | 143.9  | 128.8  | 119.0  | 120.4  | 125.7  |
| 77.5° | 728.5  | 414.4  | 197.2  | 197.7  | 161.2  | 126.1  | 118.6  | 110.2  | 102.6  | 103.1  | 107.5  |
| 80°   | 330.0  | 229.2  | 141.3  | 142.1  | 112.4  | 91.5   | 91.1   | 88.4   | 83.5   | 82.2   | 85.3   |
| 82.5° | 191.4  | 139.0  | 96.8   | 92.4   | 72.4   | 59.5   | 66.2   | 64.9   | 63.5   | 58.6   | 59.5   |
| 85°   | 94.2   | 74.6   | 50.6   | 48.0   | 40.0   | 29.8   | 35.5   | 36.9   | 35.5   | 30.2   | 29.8   |
| 87.5° | 23.1   | 24.4   | 12.4   | 11.5   | 6.7    | 3.1    | 5.3    | 5.3    | 6.7    | 4.4    | 2.2    |
| 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)