

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: P366707

Luminaire Tested: **PMM-SA1A-760-U-T4W-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1A-760-U-T4W-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3047 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

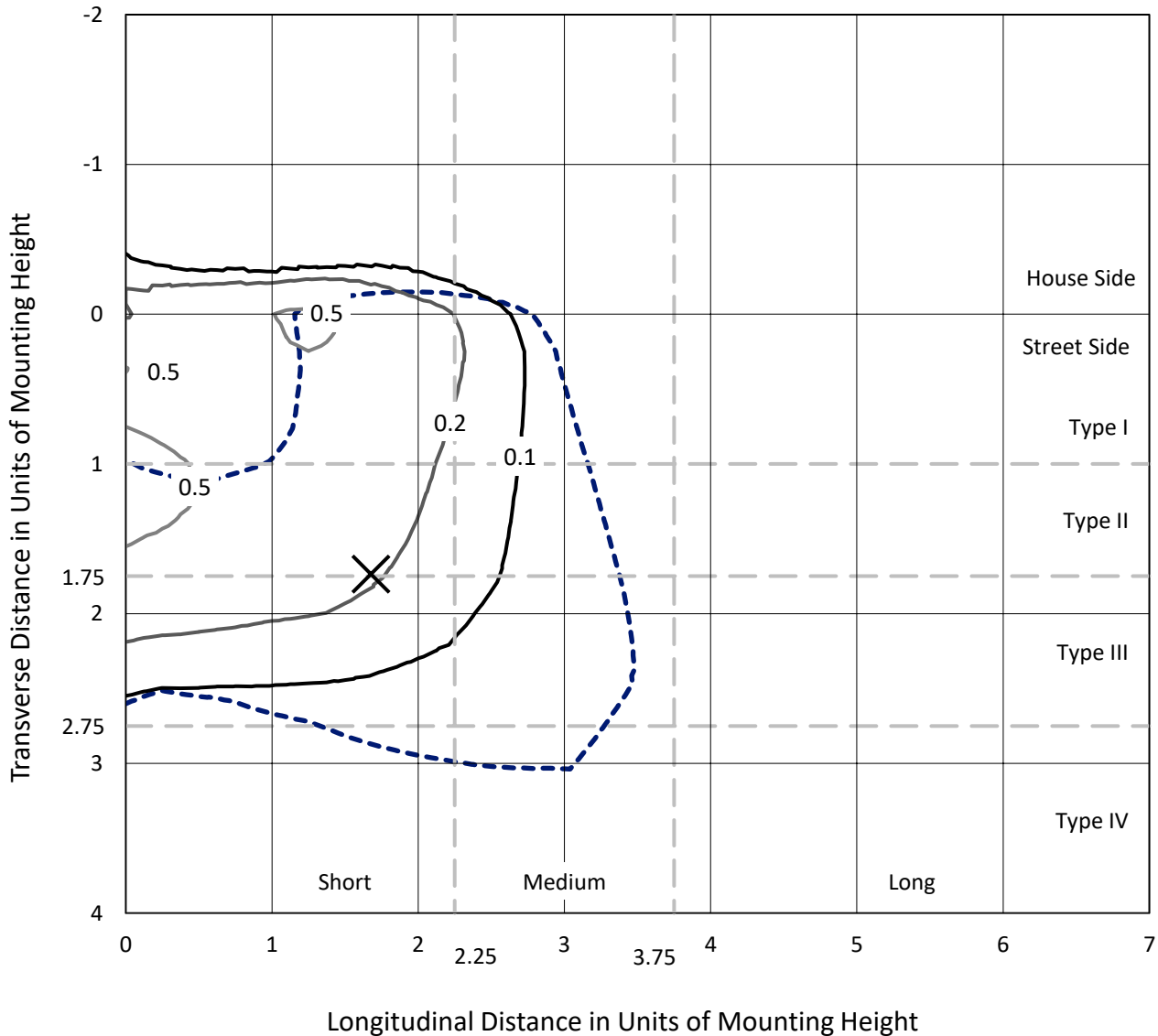
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

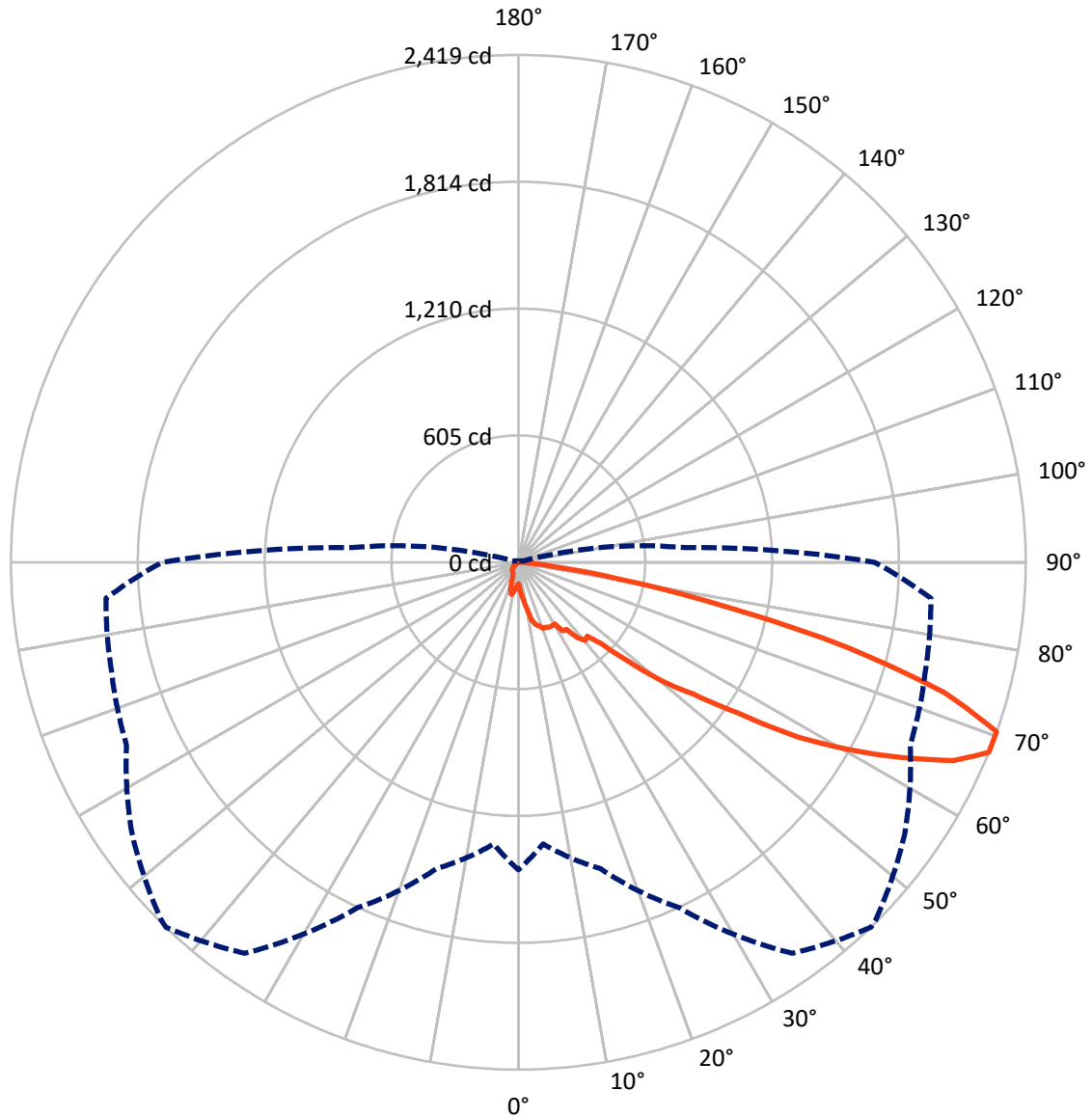
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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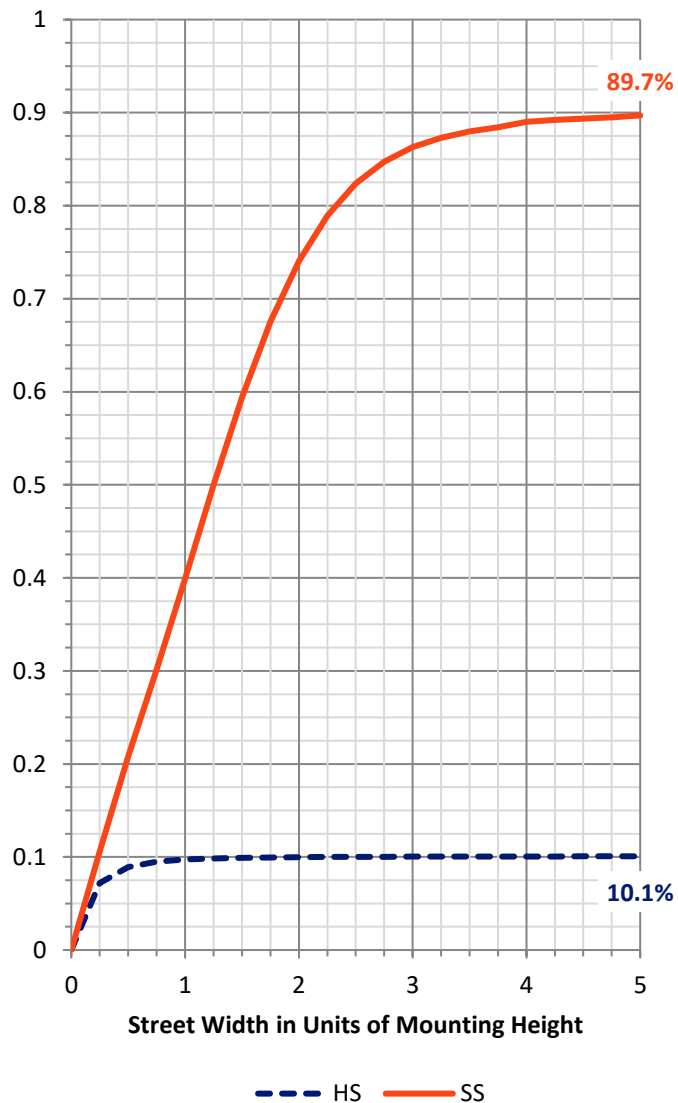
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 309.5    | 0.0    | 309.5  |
|                    | % Fixture | 10.2     | 0.0    | 10.2   |
| <b>Street Side</b> | Lumens    | 2737.5   | 0.0    | 2737.5 |
|                    | % Fixture | 89.8     | 0.0    | 89.8   |
| <b>Total</b>       | Lumens    | 3047.0   | 0.0    | 3047.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.2   | 0.5       |
| 10°-20°   | 63.7   | 2.1       |
| 20°-30°   | 112.8  | 3.7       |
| 30°-40°   | 183.4  | 6.0       |
| 40°-50°   | 367.1  | 12.0      |
| 50°-60°   | 753.0  | 24.7      |
| 60°-70°   | 1034.4 | 33.9      |
| 70°-80°   | 486.2  | 16.0      |
| 80°-90°   | 31.1   | 1.0       |
| 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°    | 3047.0 | 100.0     |
| 0°-180°   | 3047.0 | 100.0     |

**Coefficient of Utilization**



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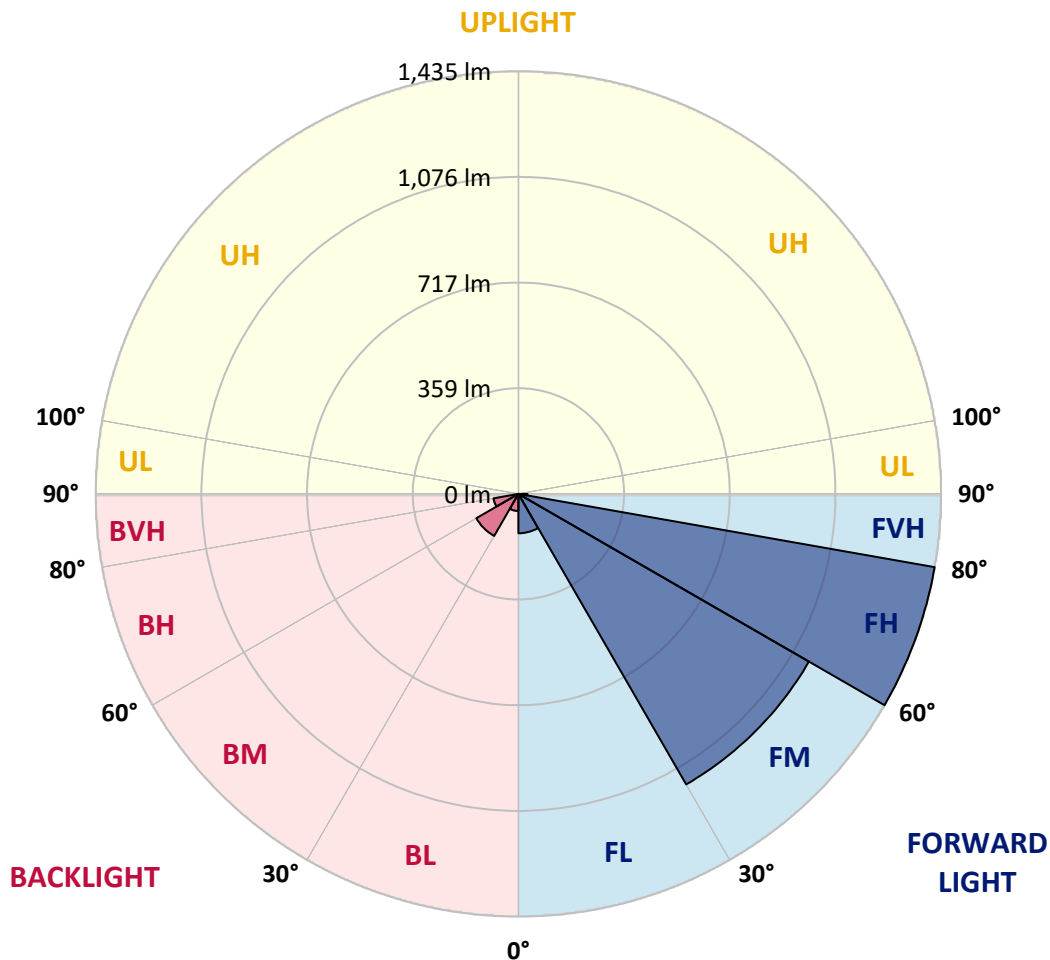
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 133.6  | 4.4       |                         |      |         |
| FM (30°-60°)   | 1138.6 | 37.4      |                         |      |         |
| FH (60°-80°)   | 1434.7 | 47.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 30.5   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 58.1   | 1.9       | B0/110                  |      |         |
| BM (30°-60°)   | 164.9  | 5.4       | B0/220                  |      |         |
| BH (60°-80°)   | 85.9   | 2.8       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.6    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  | 102.7  |
| 2.5°  | 130.6  | 126.4  | 120.3  | 121.6  | 122.3  | 124.2  | 124.3  | 122.0  | 115.3  | 113.4  | 121.6  |
| 5°    | 183.0  | 172.7  | 170.9  | 167.0  | 159.3  | 155.1  | 154.1  | 158.3  | 152.9  | 151.2  | 153.4  |
| 7.5°  | 233.7  | 225.0  | 215.4  | 210.2  | 194.1  | 184.1  | 183.6  | 185.3  | 186.3  | 180.5  | 183.5  |
| 10°   | 267.5  | 257.9  | 255.9  | 243.6  | 229.7  | 227.3  | 226.3  | 219.9  | 214.7  | 210.4  | 195.7  |
| 12.5° | 298.1  | 297.9  | 301.6  | 284.0  | 281.8  | 284.1  | 283.3  | 260.4  | 255.2  | 236.9  | 232.7  |
| 15°   | 338.7  | 348.8  | 332.8  | 318.1  | 299.2  | 307.3  | 305.1  | 290.5  | 287.0  | 274.5  | 256.6  |
| 17.5° | 380.9  | 383.6  | 356.9  | 334.2  | 329.3  | 318.7  | 320.9  | 315.7  | 297.9  | 307.8  | 290.0  |
| 20°   | 381.9  | 387.8  | 359.2  | 321.8  | 336.7  | 336.2  | 336.4  | 331.3  | 307.8  | 331.0  | 314.7  |
| 22.5° | 396.0  | 381.6  | 355.0  | 331.2  | 333.9  | 336.4  | 339.1  | 332.8  | 327.8  | 333.5  | 336.5  |
| 25°   | 390.3  | 384.6  | 359.1  | 343.3  | 340.7  | 342.8  | 343.4  | 351.3  | 348.1  | 361.9  | 354.4  |
| 27.5° | 405.1  | 396.9  | 351.2  | 354.0  | 345.1  | 342.8  | 338.7  | 365.1  | 374.5  | 363.6  | 383.8  |
| 30°   | 430.5  | 429.3  | 364.8  | 369.0  | 362.1  | 341.4  | 352.2  | 386.6  | 398.4  | 391.7  | 416.2  |
| 32.5° | 470.1  | 474.1  | 404.6  | 377.4  | 380.9  | 390.1  | 386.1  | 386.6  | 416.4  | 431.3  | 450.8  |
| 35°   | 526.4  | 524.2  | 443.4  | 409.3  | 390.8  | 392.3  | 398.0  | 425.4  | 463.9  | 462.9  | 483.6  |
| 37.5° | 637.0  | 613.1  | 512.1  | 441.9  | 447.4  | 455.0  | 450.8  | 487.6  | 491.3  | 492.6  | 542.0  |
| 40°   | 799.9  | 768.2  | 620.5  | 510.6  | 457.2  | 490.6  | 488.6  | 497.7  | 522.4  | 531.6  | 603.7  |
| 42.5° | 1014.7 | 972.0  | 811.2  | 637.0  | 504.2  | 481.2  | 493.6  | 510.8  | 593.8  | 620.2  | 699.1  |
| 45°   | 1251.9 | 1165.5 | 1001.4 | 817.1  | 622.2  | 550.8  | 560.2  | 592.1  | 707.2  | 750.9  | 838.1  |
| 47.5° | 1405.6 | 1329.7 | 1189.7 | 976.7  | 745.2  | 707.7  | 708.5  | 715.4  | 840.4  | 921.4  | 1038.4 |
| 50°   | 1539.2 | 1458.4 | 1328.5 | 1143.5 | 962.7  | 891.8  | 875.7  | 844.0  | 1010.1 | 1120.9 | 1250.6 |
| 52.5° | 1727.7 | 1633.3 | 1467.3 | 1339.3 | 1210.9 | 1043.9 | 1038.2 | 1048.9 | 1210.2 | 1326.7 | 1468.1 |
| 55°   | 1897.8 | 1783.0 | 1624.6 | 1543.9 | 1493.9 | 1267.4 | 1272.2 | 1290.2 | 1467.1 | 1528.8 | 1661.7 |
| 57.5° | 1972.9 | 1848.5 | 1767.1 | 1730.8 | 1704.0 | 1572.7 | 1556.2 | 1545.4 | 1669.8 | 1693.3 | 1864.5 |
| 60°   | 2022.1 | 1903.8 | 1866.9 | 1875.3 | 1956.2 | 1816.8 | 1801.8 | 1739.3 | 1837.5 | 1856.8 | 2046.3 |
| 62.5° | 1991.0 | 1883.2 | 1891.1 | 1961.1 | 2140.9 | 2049.2 | 2006.0 | 1901.5 | 1974.6 | 1990.2 | 2176.9 |
| 65°   | 1795.3 | 1682.9 | 1784.4 | 1953.9 | 2281.7 | 2279.5 | 2259.5 | 2051.2 | 2050.5 | 2070.5 | 2186.9 |
| 67.5° | 1466.5 | 1348.5 | 1512.7 | 1818.5 | 2275.8 | 2419.1 | 2409.7 | 2249.8 | 2061.4 | 2008.0 | 1973.5 |
| 70°   | 1019.5 | 917.2  | 1103.4 | 1501.8 | 2073.0 | 2418.1 | 2403.0 | 2383.2 | 1975.1 | 1728.4 | 1530.1 |
| 72.5° | 529.8  | 473.5  | 646.9  | 1034.8 | 1652.5 | 2124.6 | 2174.5 | 2141.9 | 1686.4 | 1255.8 | 901.1  |
| 75°   | 179.9  | 161.5  | 266.8  | 549.3  | 1098.5 | 1622.4 | 1680.9 | 1647.8 | 1145.4 | 673.8  | 356.4  |
| 77.5° | 69.7   | 64.9   | 95.6   | 223.0  | 551.1  | 988.6  | 1052.1 | 1018.4 | 614.3  | 246.8  | 83.8   |
| 80°   | 39.7   | 38.3   | 52.8   | 100.5  | 243.0  | 491.8  | 536.5  | 486.6  | 221.4  | 83.2   | 21.8   |
| 82.5° | 16.8   | 17.3   | 29.4   | 54.3   | 122.1  | 173.6  | 193.6  | 176.6  | 92.7   | 57.0   | 8.1    |
| 85°   | 3.7    | 4.5    | 13.9   | 30.2   | 51.2   | 49.6   | 51.9   | 57.6   | 57.0   | 41.8   | 3.5    |
| 87.5° | 0.0    | 0.0    | 4.4    | 8.2    | 12.3   | 8.1    | 6.4    | 11.3   | 17.5   | 16.8   | 1.5    |
| 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°    | 102.7  | 102.7  | 102.7 | 102.7 | 102.7 | 102.7 | 102.7 | 102.7 | 102.7 | 102.7 | 102.7 |
| 2.5°  | 123.2  | 121.5  | 110.9 | 110.2 | 110.9 | 109.0 | 108.9 | 105.0 | 105.3 | 114.1 | 114.8 |
| 5°    | 153.4  | 145.0  | 135.9 | 133.1 | 130.4 | 124.3 | 127.7 | 127.7 | 127.7 | 133.2 | 134.9 |
| 7.5°  | 180.8  | 169.5  | 156.8 | 146.0 | 135.6 | 128.0 | 133.2 | 136.9 | 139.1 | 146.3 | 149.7 |
| 10°   | 193.2  | 182.1  | 170.7 | 155.4 | 147.4 | 144.5 | 138.4 | 135.3 | 139.1 | 137.6 | 139.5 |
| 12.5° | 219.8  | 209.7  | 190.0 | 174.2 | 168.2 | 158.4 | 140.6 | 128.2 | 120.0 | 118.6 | 118.3 |
| 15°   | 245.6  | 239.4  | 213.0 | 191.9 | 170.9 | 148.4 | 117.9 | 101.5 | 92.7  | 91.2  | 91.4  |
| 17.5° | 278.4  | 269.5  | 230.7 | 200.3 | 164.7 | 124.2 | 91.1  | 77.0  | 76.3  | 80.0  | 80.3  |
| 20°   | 300.2  | 285.6  | 239.6 | 193.4 | 144.2 | 93.9  | 71.2  | 67.9  | 73.3  | 80.0  | 79.3  |
| 22.5° | 321.1  | 305.3  | 251.4 | 187.3 | 111.7 | 71.2  | 65.5  | 65.9  | 70.4  | 77.6  | 79.5  |
| 25°   | 334.9  | 329.1  | 265.8 | 173.2 | 85.2  | 61.7  | 62.7  | 65.2  | 69.1  | 75.9  | 75.9  |
| 27.5° | 376.4  | 349.6  | 264.1 | 145.8 | 65.5  | 57.5  | 59.8  | 63.0  | 65.0  | 73.3  | 74.1  |
| 30°   | 401.6  | 392.8  | 272.9 | 117.9 | 57.5  | 52.1  | 56.6  | 59.5  | 60.8  | 70.2  | 70.6  |
| 32.5° | 432.5  | 413.2  | 283.4 | 87.0  | 53.4  | 51.7  | 50.7  | 52.9  | 56.8  | 65.0  | 65.5  |
| 35°   | 470.1  | 464.4  | 268.3 | 68.4  | 52.1  | 48.4  | 46.4  | 47.5  | 50.1  | 55.6  | 56.8  |
| 37.5° | 546.9  | 513.0  | 259.3 | 58.6  | 52.1  | 47.2  | 45.0  | 42.0  | 42.3  | 46.2  | 48.4  |
| 40°   | 611.6  | 601.2  | 233.9 | 57.0  | 49.7  | 45.5  | 40.2  | 36.5  | 33.9  | 35.1  | 36.0  |
| 42.5° | 730.4  | 682.2  | 201.1 | 56.1  | 47.5  | 41.2  | 34.1  | 30.2  | 26.4  | 26.7  | 28.1  |
| 45°   | 874.5  | 770.5  | 171.9 | 55.3  | 46.0  | 36.8  | 28.7  | 24.2  | 20.2  | 20.3  | 21.7  |
| 47.5° | 1067.1 | 899.4  | 136.4 | 52.8  | 43.3  | 32.8  | 23.2  | 18.5  | 16.1  | 16.6  | 17.8  |
| 50°   | 1285.8 | 1012.5 | 107.9 | 48.9  | 40.2  | 28.9  | 18.8  | 15.0  | 14.1  | 14.6  | 16.0  |
| 52.5° | 1481.3 | 1095.8 | 89.0  | 45.4  | 35.6  | 23.5  | 15.8  | 13.3  | 12.9  | 13.3  | 14.3  |
| 55°   | 1655.0 | 1144.2 | 74.4  | 41.3  | 30.6  | 19.0  | 14.3  | 12.3  | 12.1  | 11.9  | 12.6  |
| 57.5° | 1818.0 | 1158.2 | 58.1  | 34.9  | 24.9  | 16.5  | 13.3  | 11.4  | 11.1  | 10.6  | 11.1  |
| 60°   | 1936.8 | 1134.3 | 42.7  | 28.1  | 20.3  | 15.0  | 12.4  | 10.2  | 9.7   | 8.9   | 9.2   |
| 62.5° | 1994.0 | 1068.9 | 32.3  | 22.5  | 17.3  | 13.6  | 11.1  | 8.9   | 8.2   | 7.2   | 7.4   |
| 65°   | 1939.6 | 961.2  | 25.4  | 19.0  | 14.8  | 11.4  | 9.4   | 7.6   | 6.7   | 5.7   | 5.7   |
| 67.5° | 1698.5 | 797.4  | 21.5  | 16.5  | 12.4  | 9.7   | 7.7   | 6.9   | 5.5   | 4.7   | 4.5   |
| 70°   | 1246.7 | 573.6  | 18.5  | 14.4  | 10.8  | 8.4   | 6.6   | 6.2   | 5.4   | 4.5   | 4.2   |
| 72.5° | 703.7  | 324.6  | 15.8  | 12.8  | 9.1   | 7.1   | 5.5   | 5.7   | 5.2   | 4.2   | 3.9   |
| 75°   | 268.5  | 109.4  | 13.1  | 10.6  | 7.4   | 5.4   | 4.7   | 4.7   | 4.7   | 3.5   | 3.0   |
| 77.5° | 66.5   | 27.9   | 10.4  | 8.6   | 5.9   | 3.5   | 3.9   | 4.0   | 4.0   | 3.0   | 2.2   |
| 80°   | 18.3   | 9.4    | 6.2   | 6.2   | 4.2   | 2.0   | 2.7   | 2.7   | 2.2   | 1.0   | 0.0   |
| 82.5° | 6.7    | 3.5    | 2.2   | 2.7   | 1.8   | 0.7   | 1.0   | 0.7   | 0.5   | 0.0   | 0.0   |
| 85°   | 2.9    | 1.8    | 1.3   | 1.5   | 0.8   | 0.0   | 0.2   | 0.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.2    | 0.8    | 0.7   | 0.7   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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)