

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: McGRAW-EDISON

Report Number: P200144

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-SL4-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10313.3 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

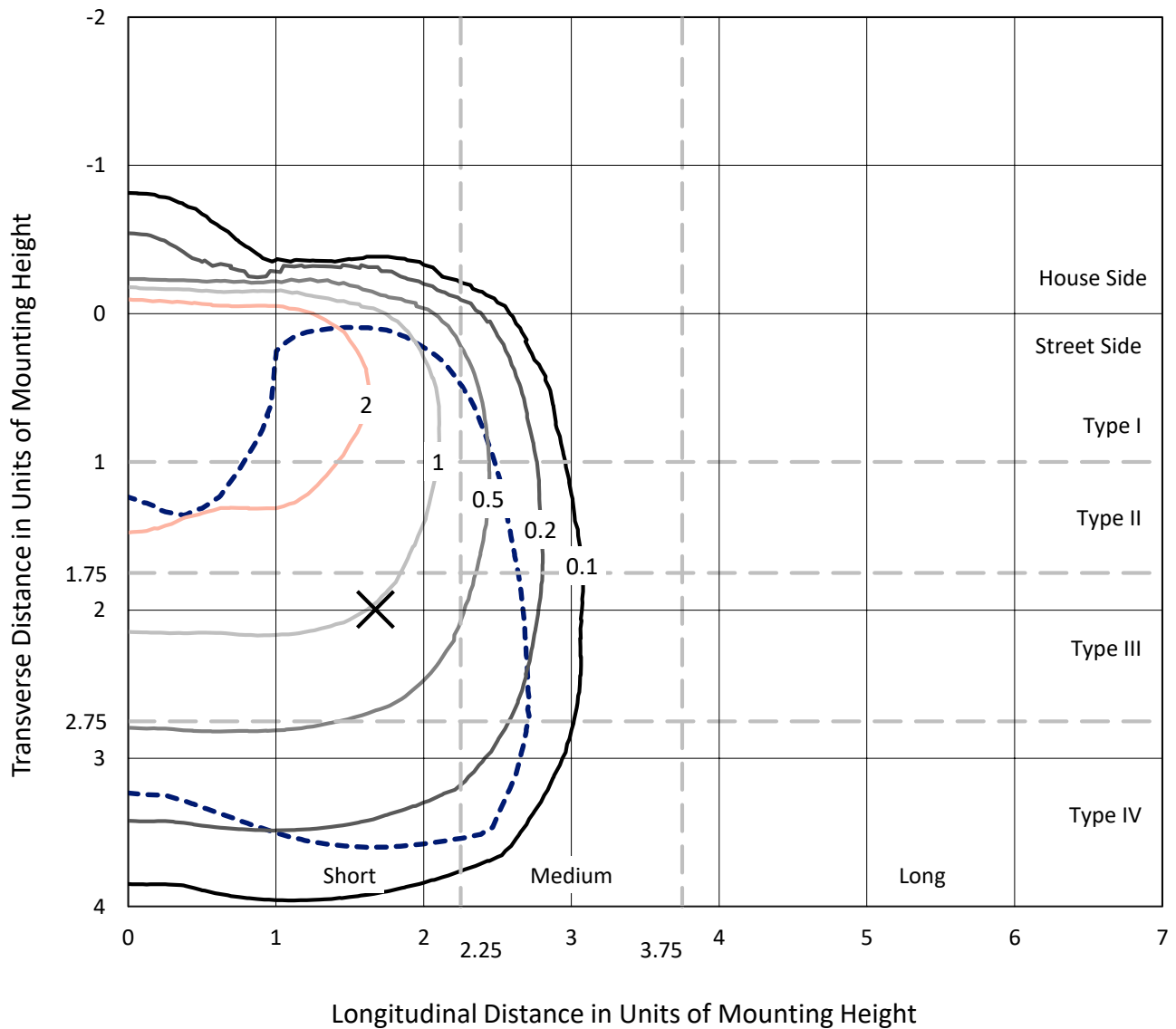
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

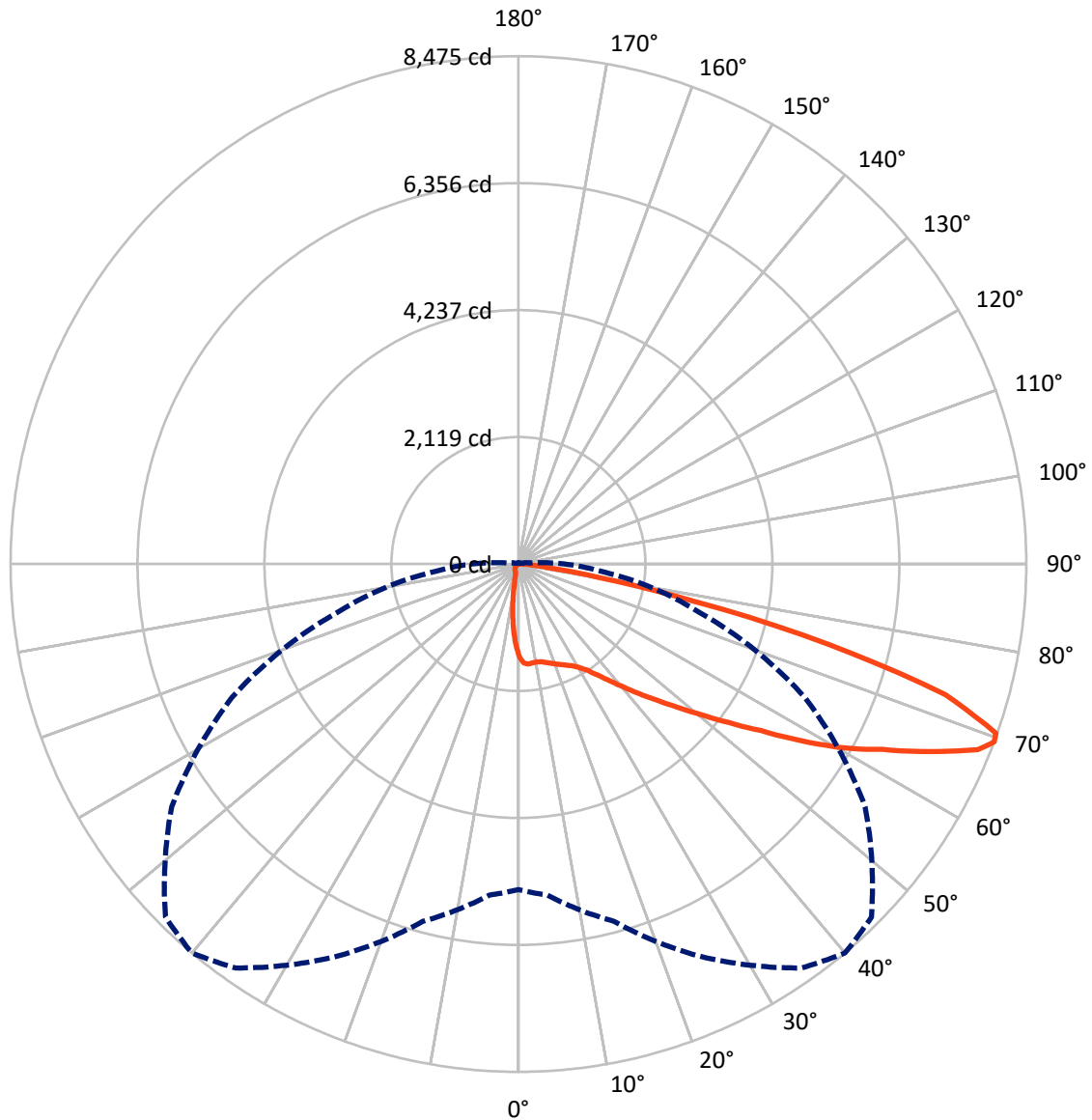
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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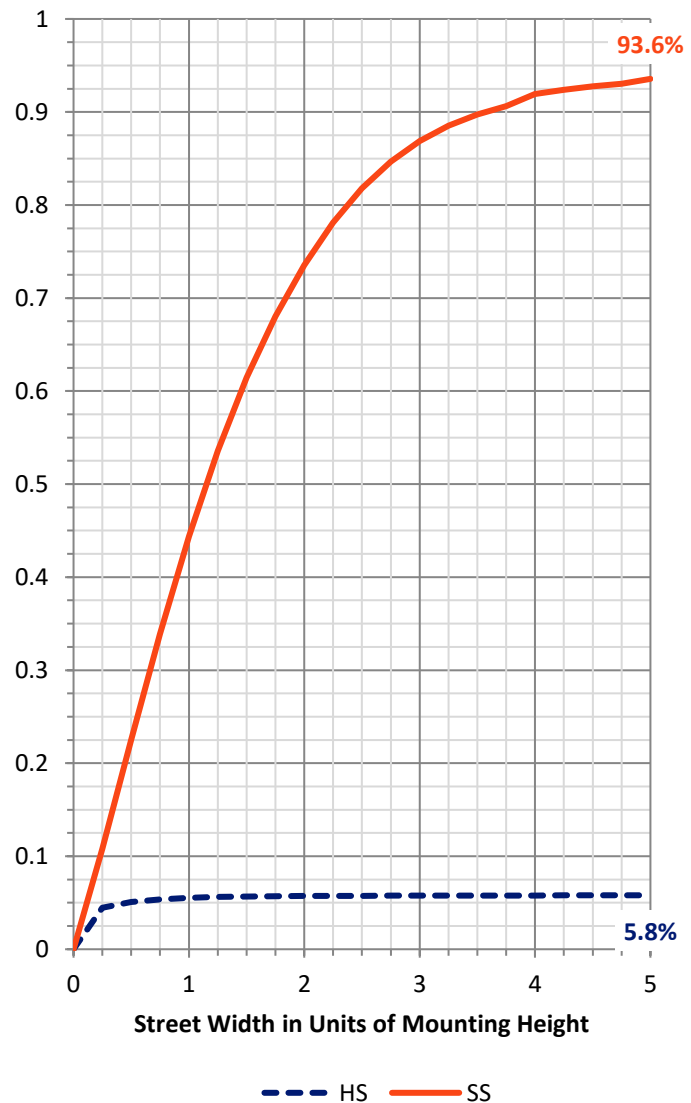
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 603.4    | 0.0    | 603.4   |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 9710.0   | 0.0    | 9710.0  |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 10313.3  | 0.0    | 10313.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 124.9   | 1.2       |
| 10°-20°   | 307.2   | 3.0       |
| 20°-30°   | 517.5   | 5.0       |
| 30°-40°   | 847.1   | 8.2       |
| 40°-50°   | 1466.8  | 14.2      |
| 50°-60°   | 2310.4  | 22.4      |
| 60°-70°   | 3017.3  | 29.3      |
| 70°-80°   | 1554.0  | 15.1      |
| 80°-90°   | 168.1   | 1.6       |
| 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°    | 10313.3 | 100.0     |
| 0°-180°   | 10313.3 | 100.0     |



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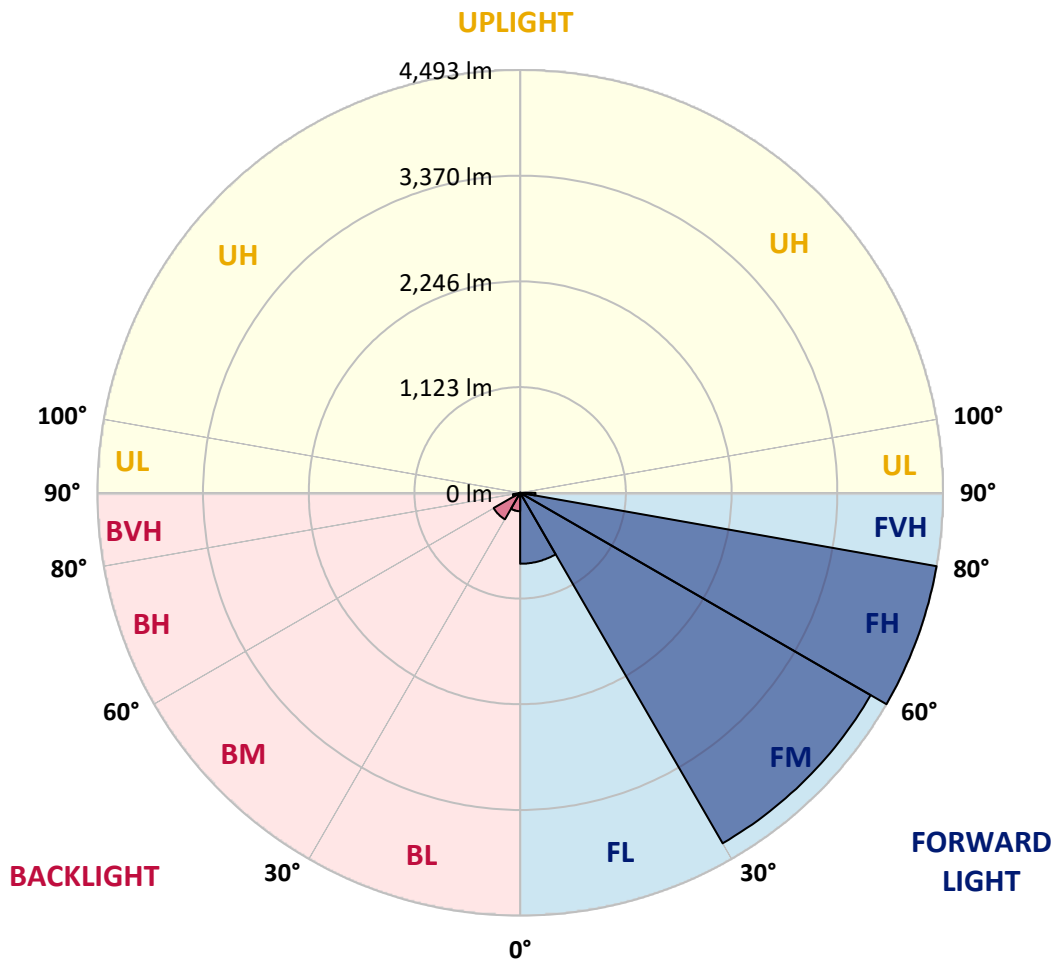
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 754.2  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 4300.0 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 4492.9 | 43.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 162.8  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 195.5  | 1.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 324.3  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 78.3   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 5.3    | 0.1       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 |
| 2.5°  | 1691.9 | 1682.7 | 1677.1 | 1669.8 | 1660.6 | 1652.6 | 1649.5 | 1626.8 | 1605.3 | 1575.9 | 1542.1 |
| 5°    | 1723.2 | 1720.1 | 1710.3 | 1700.5 | 1689.4 | 1677.1 | 1670.4 | 1643.4 | 1612.7 | 1569.7 | 1510.8 |
| 7.5°  | 1726.2 | 1722.5 | 1710.3 | 1696.8 | 1681.4 | 1666.7 | 1655.0 | 1628.0 | 1599.8 | 1556.2 | 1484.4 |
| 10°   | 1721.3 | 1717.0 | 1707.8 | 1693.1 | 1674.1 | 1659.9 | 1648.3 | 1622.5 | 1598.6 | 1559.3 | 1479.5 |
| 12.5° | 1715.8 | 1711.5 | 1707.2 | 1699.8 | 1683.3 | 1673.4 | 1663.6 | 1639.1 | 1617.6 | 1584.4 | 1497.3 |
| 15°   | 1721.3 | 1718.9 | 1723.8 | 1720.7 | 1711.5 | 1702.9 | 1693.1 | 1671.0 | 1651.3 | 1623.7 | 1529.8 |
| 17.5° | 1744.6 | 1744.6 | 1760.0 | 1761.8 | 1753.2 | 1741.0 | 1726.8 | 1704.7 | 1688.2 | 1664.9 | 1568.5 |
| 20°   | 1799.4 | 1797.5 | 1817.2 | 1820.9 | 1800.0 | 1780.9 | 1760.0 | 1733.0 | 1720.1 | 1705.4 | 1606.5 |
| 22.5° | 1893.3 | 1884.7 | 1896.3 | 1892.7 | 1851.5 | 1822.1 | 1796.3 | 1763.1 | 1756.3 | 1749.6 | 1648.9 |
| 25°   | 2015.4 | 2010.5 | 2018.5 | 1982.3 | 1909.8 | 1870.0 | 1839.3 | 1801.8 | 1801.8 | 1808.6 | 1696.8 |
| 27.5° | 2192.8 | 2174.4 | 2147.4 | 2083.5 | 1974.9 | 1924.0 | 1890.8 | 1850.9 | 1861.4 | 1886.5 | 1760.0 |
| 30°   | 2374.6 | 2354.3 | 2292.3 | 2194.0 | 2054.1 | 2000.7 | 1962.0 | 1920.3 | 1944.8 | 1990.9 | 1844.8 |
| 32.5° | 2553.8 | 2531.1 | 2443.3 | 2319.3 | 2167.6 | 2114.2 | 2076.8 | 2030.8 | 2071.9 | 2149.2 | 1968.8 |
| 35°   | 2727.5 | 2707.2 | 2606.0 | 2459.9 | 2318.7 | 2274.4 | 2240.1 | 2200.2 | 2252.9 | 2361.1 | 2143.7 |
| 37.5° | 2922.8 | 2900.7 | 2777.2 | 2618.9 | 2502.2 | 2470.3 | 2445.2 | 2405.3 | 2497.3 | 2655.7 | 2387.5 |
| 40°   | 3162.8 | 3125.3 | 2959.0 | 2801.2 | 2714.6 | 2699.3 | 2682.1 | 2676.6 | 2819.7 | 3038.8 | 2712.1 |
| 42.5° | 3437.8 | 3376.5 | 3149.3 | 2993.4 | 2947.9 | 2959.0 | 2954.7 | 2979.2 | 3222.9 | 3515.2 | 3107.5 |
| 45°   | 3712.8 | 3633.6 | 3361.1 | 3198.4 | 3204.5 | 3243.2 | 3267.1 | 3365.4 | 3728.1 | 4061.5 | 3533.0 |
| 47.5° | 3946.1 | 3868.2 | 3564.3 | 3420.0 | 3493.7 | 3569.8 | 3634.9 | 3820.9 | 4247.5 | 4599.3 | 3863.9 |
| 50°   | 4145.6 | 4072.0 | 3779.7 | 3663.7 | 3829.5 | 3952.3 | 4057.8 | 4333.5 | 4806.1 | 5008.8 | 4095.9 |
| 52.5° | 4308.9 | 4259.8 | 4003.2 | 3943.1 | 4213.1 | 4393.1 | 4547.7 | 4878.0 | 5300.9 | 5341.4 | 4276.3 |
| 55°   | 4467.9 | 4433.0 | 4243.2 | 4275.1 | 4663.7 | 4908.7 | 5104.5 | 5455.7 | 5727.0 | 5619.0 | 4449.5 |
| 57.5° | 4650.8 | 4618.9 | 4517.0 | 4696.3 | 5256.1 | 5564.3 | 5777.9 | 5967.7 | 6102.1 | 5902.6 | 4612.8 |
| 60°   | 4837.5 | 4819.0 | 4821.5 | 5164.1 | 5936.4 | 6232.2 | 6350.1 | 6399.3 | 6470.5 | 6169.6 | 4622.0 |
| 62.5° | 5015.5 | 5050.5 | 5169.6 | 5684.6 | 6587.7 | 6814.8 | 6874.4 | 6922.9 | 6839.3 | 6212.0 | 4270.2 |
| 65°   | 5316.9 | 5374.1 | 5658.2 | 6381.5 | 7304.1 | 7547.2 | 7608.6 | 7442.3 | 6897.8 | 5664.4 | 3473.4 |
| 67.5° | 5464.3 | 5568.6 | 6075.7 | 7030.9 | 7999.1 | 8269.1 | 8246.4 | 7476.0 | 6189.9 | 4319.3 | 2229.0 |
| 69°   | 5433.6 | 5544.7 | 6172.1 | 7229.8 | 8229.8 | 8474.8 | 8330.5 | 7062.9 | 5273.3 | 3129.0 | 1368.4 |
| 70°   | 5312.0 | 5424.4 | 6122.4 | 7222.4 | 8259.3 | 8453.4 | 8174.6 | 6552.7 | 4458.7 | 2287.9 | 855.8  |
| 72.5° | 4436.0 | 4533.0 | 5435.4 | 6528.2 | 7608.6 | 7450.9 | 6838.7 | 4539.8 | 2172.5 | 623.1  | 192.7  |
| 75°   | 2730.6 | 2784.6 | 3900.1 | 4917.9 | 5746.6 | 5341.4 | 4556.3 | 2258.5 | 647.6  | 176.2  | 106.8  |
| 77.5° | 1442.7 | 1467.2 | 2135.1 | 2898.8 | 3642.8 | 3014.2 | 2335.3 | 881.0  | 298.4  | 110.5  | 77.3   |
| 80°   | 852.7  | 871.1  | 1149.8 | 1325.4 | 1576.5 | 1316.8 | 933.7  | 540.8  | 213.6  | 69.4   | 68.7   |
| 82.5° | 488.0  | 499.7  | 833.7  | 736.6  | 621.2  | 530.4  | 464.7  | 512.6  | 128.3  | 46.6   | 71.2   |
| 85°   | 179.2  | 181.7  | 469.0  | 560.5  | 369.6  | 219.7  | 230.8  | 424.8  | 34.4   | 29.5   | 55.9   |
| 87.5° | 83.5   | 81.6   | 241.2  | 343.2  | 216.0  | 139.3  | 179.8  | 93.3   | 13.5   | 19.0   | 15.3   |
| 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°    | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 | 1540.9 |
| 2.5°  | 1522.5 | 1499.7 | 1458.6 | 1416.3 | 1373.3 | 1340.2 | 1307.6 | 1281.9 | 1273.3 | 1257.2 | 1258.4 |
| 5°    | 1475.8 | 1434.1 | 1348.1 | 1260.9 | 1170.1 | 1095.2 | 1024.6 | 967.5  | 939.9  | 911.7  | 911.7  |
| 7.5°  | 1435.3 | 1374.5 | 1240.0 | 1098.2 | 951.5  | 828.2  | 717.0  | 633.5  | 587.5  | 550.7  | 550.0  |
| 10°   | 1420.0 | 1337.7 | 1149.8 | 946.6  | 742.2  | 574.0  | 442.0  | 357.3  | 313.7  | 285.5  | 284.3  |
| 12.5° | 1426.7 | 1324.8 | 1080.4 | 806.7  | 550.0  | 369.0  | 256.0  | 201.3  | 182.9  | 174.3  | 174.3  |
| 15°   | 1446.4 | 1321.1 | 1011.1 | 669.7  | 388.6  | 230.8  | 170.0  | 155.3  | 154.1  | 154.1  | 154.1  |
| 17.5° | 1470.3 | 1322.4 | 939.9  | 536.5  | 264.6  | 165.1  | 146.7  | 144.8  | 146.1  | 146.1  | 146.1  |
| 20°   | 1494.8 | 1323.0 | 863.2  | 413.2  | 186.6  | 143.6  | 138.1  | 137.5  | 138.7  | 138.7  | 139.3  |
| 22.5° | 1524.9 | 1326.1 | 786.4  | 308.8  | 154.1  | 135.6  | 131.3  | 131.3  | 132.0  | 132.0  | 131.3  |
| 25°   | 1559.3 | 1332.2 | 706.6  | 228.9  | 140.6  | 130.1  | 126.4  | 125.8  | 126.4  | 125.8  | 125.2  |
| 27.5° | 1602.2 | 1340.8 | 617.6  | 179.2  | 134.4  | 124.6  | 121.5  | 121.5  | 120.9  | 120.3  | 119.7  |
| 30°   | 1656.3 | 1350.6 | 517.5  | 152.2  | 128.3  | 119.7  | 116.6  | 116.0  | 115.4  | 114.2  | 114.2  |
| 32.5° | 1738.5 | 1372.1 | 418.7  | 138.1  | 121.5  | 112.9  | 110.5  | 110.5  | 109.3  | 108.0  | 107.4  |
| 35°   | 1865.0 | 1414.4 | 330.3  | 129.5  | 114.2  | 105.6  | 102.5  | 102.5  | 101.3  | 100.7  | 100.0  |
| 37.5° | 2040.0 | 1478.9 | 256.7  | 121.5  | 106.8  | 97.6   | 94.5   | 93.9   | 92.7   | 91.5   | 90.8   |
| 40°   | 2272.6 | 1558.7 | 201.9  | 114.2  | 99.4   | 89.6   | 87.2   | 85.9   | 83.5   | 81.6   | 81.6   |
| 42.5° | 2564.8 | 1649.5 | 163.9  | 106.2  | 90.8   | 82.2   | 80.4   | 78.6   | 74.3   | 72.4   | 71.8   |
| 45°   | 2870.6 | 1731.1 | 138.7  | 97.0   | 82.2   | 74.9   | 73.7   | 70.6   | 65.1   | 63.2   | 63.2   |
| 47.5° | 3090.9 | 1750.2 | 122.1  | 88.4   | 74.3   | 66.9   | 66.3   | 60.8   | 55.9   | 54.6   | 54.0   |
| 50°   | 3228.4 | 1712.7 | 108.6  | 79.8   | 66.9   | 59.5   | 57.7   | 50.9   | 47.9   | 46.6   | 46.0   |
| 52.5° | 3321.2 | 1645.8 | 97.6   | 72.4   | 60.1   | 52.8   | 48.5   | 43.6   | 41.1   | 39.9   | 39.9   |
| 55°   | 3395.5 | 1551.3 | 86.5   | 65.7   | 54.6   | 47.3   | 41.1   | 37.4   | 35.0   | 33.8   | 33.8   |
| 57.5° | 3416.3 | 1423.0 | 75.5   | 60.1   | 49.1   | 41.7   | 35.0   | 32.5   | 29.5   | 28.8   | 28.8   |
| 60°   | 3264.6 | 1191.5 | 66.9   | 53.4   | 44.2   | 36.2   | 30.7   | 27.6   | 24.6   | 23.9   | 23.3   |
| 62.5° | 2865.1 | 922.1  | 58.9   | 47.3   | 38.7   | 31.3   | 26.4   | 22.7   | 20.3   | 20.3   | 20.3   |
| 65°   | 2185.4 | 618.2  | 51.6   | 41.1   | 33.8   | 26.4   | 22.7   | 18.4   | 17.2   | 17.2   | 17.8   |
| 67.5° | 1308.3 | 336.4  | 44.2   | 35.0   | 28.8   | 22.1   | 19.0   | 16.0   | 15.3   | 16.0   | 16.0   |
| 69°   | 766.8  | 197.6  | 39.9   | 31.3   | 25.2   | 19.6   | 16.6   | 14.1   | 15.3   | 16.0   | 16.0   |
| 70°   | 473.3  | 133.2  | 36.8   | 28.2   | 22.7   | 17.8   | 15.3   | 13.5   | 14.7   | 15.3   | 15.3   |
| 72.5° | 132.0  | 68.7   | 29.5   | 22.1   | 18.4   | 14.7   | 12.3   | 12.3   | 14.1   | 14.7   | 14.7   |
| 75°   | 85.9   | 50.9   | 22.7   | 16.6   | 14.1   | 11.7   | 10.4   | 11.7   | 13.5   | 14.1   | 14.1   |
| 77.5° | 71.2   | 41.7   | 18.4   | 13.5   | 11.7   | 11.0   | 9.8    | 10.4   | 12.3   | 12.9   | 12.9   |
| 80°   | 65.1   | 29.5   | 14.7   | 12.3   | 10.4   | 9.8    | 9.2    | 8.6    | 11.0   | 11.7   | 11.7   |
| 82.5° | 62.0   | 23.3   | 12.9   | 11.0   | 9.8    | 8.6    | 8.0    | 8.6    | 9.8    | 10.4   | 11.0   |
| 85°   | 38.7   | 15.3   | 11.7   | 10.4   | 8.6    | 8.0    | 8.0    | 8.0    | 9.2    | 9.8    | 9.8    |
| 87.5° | 14.1   | 12.3   | 10.4   | 8.6    | 7.4    | 7.4    | 7.4    | 7.4    | 8.0    | 9.2    | 9.2    |
| 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)