

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: P200118

Luminaire Tested: **GAP-AF-02-LED-U-SL2-800**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-02-LED-U-SL2-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10057.6 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 86  
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



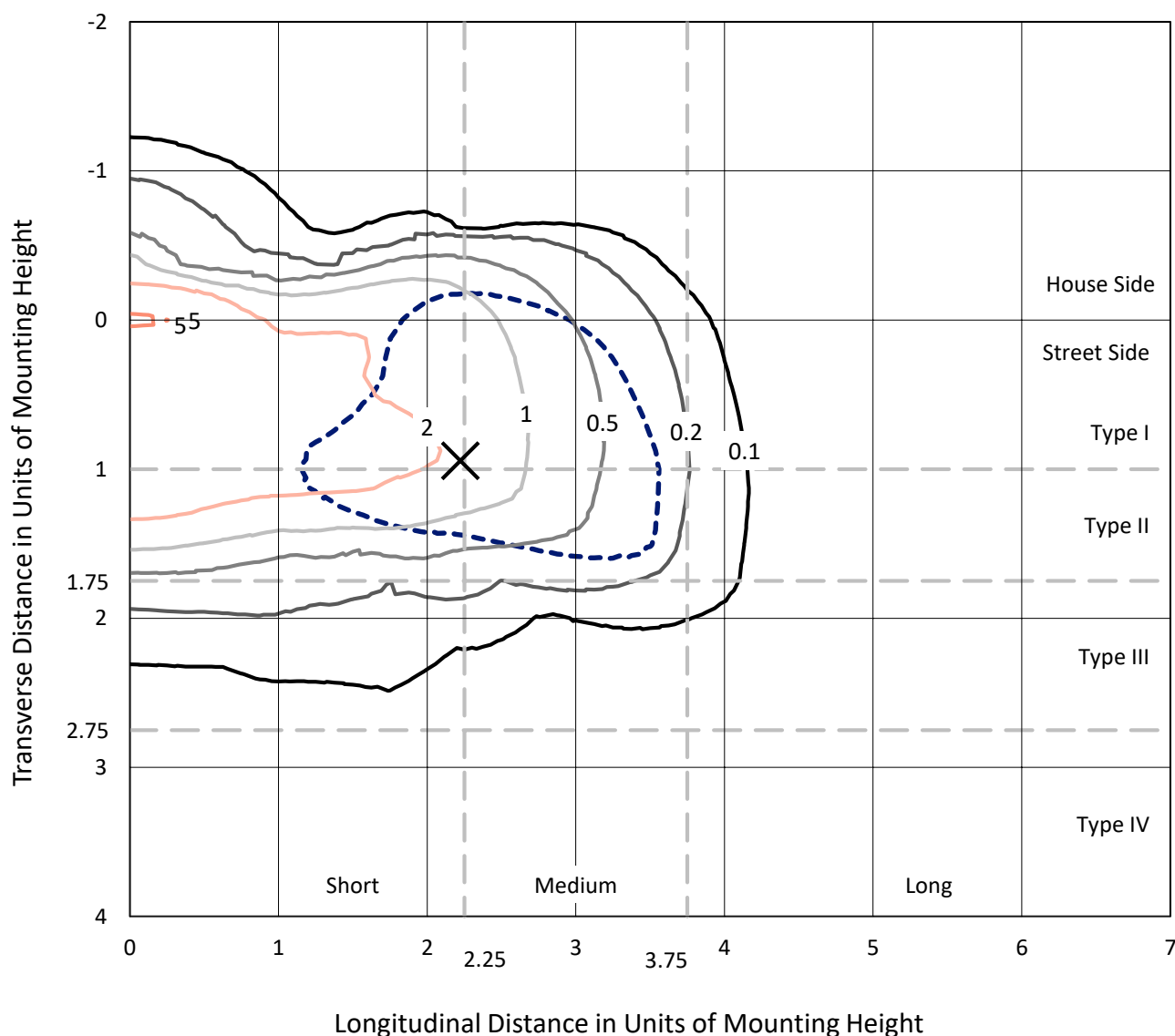
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

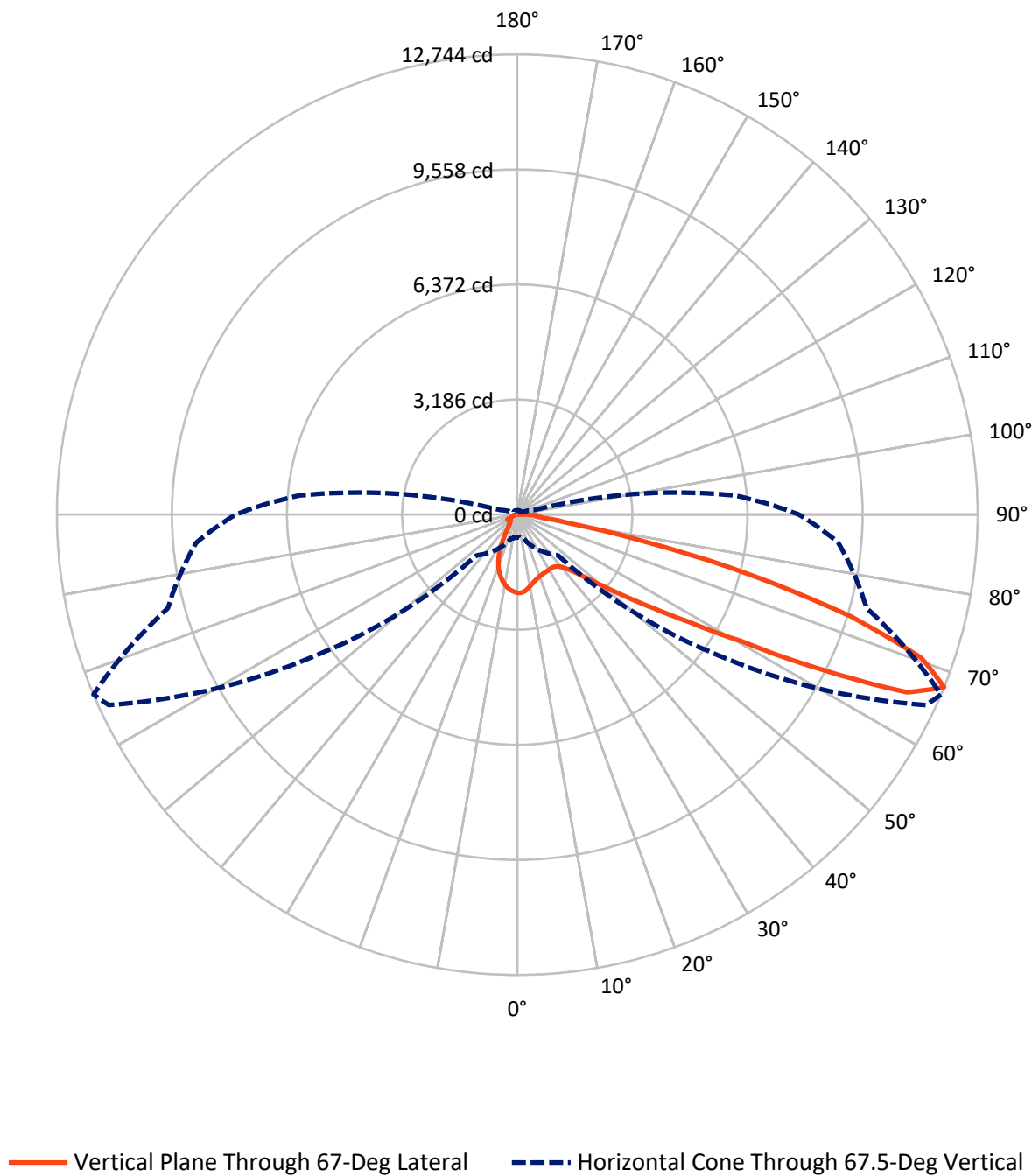


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1666.4   | 0.0    | 1666.4  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 8391.2   | 0.0    | 8391.2  |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 10057.6  | 0.0    | 10057.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 185.1   | 1.8       |
| 10°-20°   | 428.3   | 4.3       |
| 20°-30°   | 580.5   | 5.8       |
| 30°-40°   | 825.2   | 8.2       |
| 40°-50°   | 1380.7  | 13.7      |
| 50°-60°   | 2184.2  | 21.7      |
| 60°-70°   | 2782.5  | 27.7      |
| 70°-80°   | 1457.4  | 14.5      |
| 80°-90°   | 233.7   | 2.3       |
| 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°    | 10057.6 | 100.0     |
| 0°-180°   | 10057.6 | 100.0     |

**Coefficient of Utilization**



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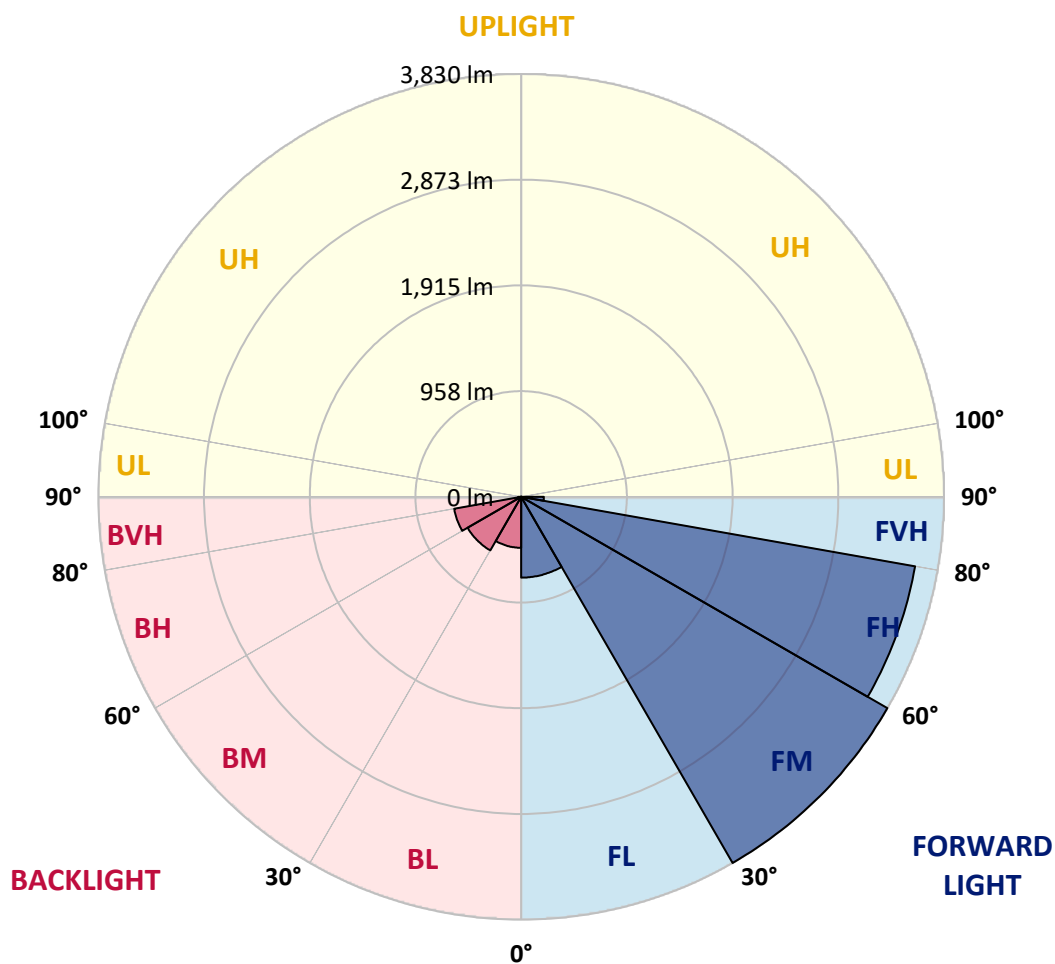
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 732.0  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 3830.2 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 3623.6 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 205.5  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 461.9  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 560.0  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 616.4  | 6.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 28.2   | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 67°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4  | 2169.4  | 2169.4  | 2169.4 |
| 2.5°  | 2080.2 | 2083.6 | 2094.5 | 2101.4 | 2132.8 | 2146.2 | 2155.6 | 2165.0  | 2166.4  | 2170.9  | 2166.4 |
| 5°    | 1861.9 | 1869.3 | 1889.7 | 1912.5 | 1973.0 | 2020.6 | 2070.8 | 2122.8  | 2132.2  | 2165.9  | 2175.4 |
| 7.5°  | 1692.8 | 1690.8 | 1707.6 | 1734.9 | 1796.9 | 1862.9 | 1950.7 | 2054.4  | 2074.6  | 2150.5  | 2187.3 |
| 10°   | 1569.3 | 1567.8 | 1585.7 | 1613.9 | 1672.9 | 1735.4 | 1834.7 | 1976.4  | 2005.3  | 2126.3  | 2198.6 |
| 12.5° | 1478.1 | 1478.5 | 1496.4 | 1527.6 | 1587.6 | 1650.6 | 1751.3 | 1901.1  | 1937.8  | 2098.0  | 2210.6 |
| 15°   | 1417.5 | 1421.5 | 1435.8 | 1469.1 | 1527.6 | 1590.6 | 1689.3 | 1844.6  | 1885.7  | 2075.7  | 2224.0 |
| 17.5° | 1397.1 | 1403.6 | 1408.6 | 1432.8 | 1483.0 | 1546.0 | 1642.7 | 1802.8  | 1846.5  | 2060.3  | 2235.9 |
| 20°   | 1416.0 | 1423.4 | 1414.0 | 1422.5 | 1454.2 | 1509.8 | 1605.9 | 1770.1  | 1814.8  | 2042.9  | 2237.4 |
| 22.5° | 1496.9 | 1503.8 | 1476.0 | 1451.8 | 1449.7 | 1483.5 | 1575.8 | 1744.3  | 1790.5  | 2030.0  | 2237.8 |
| 25°   | 1639.2 | 1643.7 | 1597.0 | 1540.5 | 1485.4 | 1474.1 | 1554.4 | 1726.5  | 1775.6  | 2018.6  | 2228.4 |
| 27.5° | 1813.8 | 1817.3 | 1763.7 | 1680.4 | 1569.8 | 1496.4 | 1547.0 | 1716.1  | 1767.1  | 2008.7  | 2212.5 |
| 30°   | 2026.1 | 2042.4 | 1970.5 | 1865.4 | 1704.1 | 1562.4 | 1561.8 | 1710.7  | 1757.7  | 1991.9  | 2181.3 |
| 32.5° | 2243.3 | 2250.3 | 2200.7 | 2094.0 | 1885.2 | 1678.4 | 1603.5 | 1714.6  | 1755.3  | 1971.5  | 2141.6 |
| 35°   | 2463.6 | 2472.5 | 2440.2 | 2354.4 | 2132.8 | 1848.5 | 1684.8 | 1737.9  | 1770.6  | 1964.6  | 2113.8 |
| 37.5° | 2748.7 | 2760.6 | 2715.9 | 2616.8 | 2433.8 | 2079.1 | 1820.2 | 1796.4  | 1817.8  | 1984.4  | 2105.4 |
| 40°   | 3199.6 | 3194.1 | 3063.6 | 2915.8 | 2763.1 | 2374.3 | 2013.7 | 1895.6  | 1908.0  | 2048.4  | 2131.2 |
| 42.5° | 3724.3 | 3711.0 | 3486.2 | 3254.1 | 3125.1 | 2731.4 | 2269.6 | 2067.7  | 2065.2  | 2174.4  | 2222.0 |
| 45°   | 4143.0 | 4132.0 | 3929.7 | 3643.4 | 3540.3 | 3138.1 | 2600.4 | 2324.1  | 2305.8  | 2374.3  | 2389.6 |
| 47.5° | 4369.5 | 4370.0 | 4253.5 | 4019.9 | 4017.4 | 3654.9 | 3025.5 | 2695.2  | 2663.4  | 2695.7  | 2679.3 |
| 50°   | 4290.3 | 4300.6 | 4288.2 | 4213.8 | 4452.9 | 4332.4 | 3580.4 | 3212.5  | 3148.4  | 3180.3  | 3117.2 |
| 52.5° | 3906.3 | 3919.7 | 3993.1 | 4107.2 | 4635.9 | 5151.3 | 4395.8 | 3855.2  | 3780.8  | 3769.5  | 3699.5 |
| 55°   | 3225.9 | 3242.2 | 3392.0 | 3702.0 | 4483.7 | 5701.3 | 5682.4 | 4674.6  | 4556.0  | 4448.4  | 4418.6 |
| 57.5° | 2223.5 | 2250.8 | 2491.8 | 2952.0 | 3991.1 | 5867.4 | 7214.5 | 5842.6  | 5601.6  | 5225.6  | 5232.6 |
| 60°   | 1253.3 | 1285.0 | 1569.3 | 1987.4 | 2997.2 | 5686.9 | 8380.0 | 7611.8  | 7103.0  | 6135.8  | 6187.3 |
| 62.5° | 797.1  | 831.2  | 1047.0 | 1380.8 | 1798.4 | 4714.8 | 8857.7 | 10071.4 | 9425.1  | 7257.6  | 7308.3 |
| 65°   | 645.3  | 660.1  | 761.8  | 1139.8 | 1305.9 | 2840.4 | 8495.1 | 12097.4 | 11856.4 | 8681.6  | 8445.5 |
| 67.5° | 629.9  | 634.8  | 687.4  | 956.8  | 1252.3 | 1596.5 | 6776.0 | 12476.3 | 12743.7 | 10011.3 | 8919.2 |
| 70°   | 622.5  | 639.9  | 774.7  | 913.1  | 1199.3 | 1346.6 | 4072.0 | 11437.7 | 11859.9 | 10359.0 | 8288.8 |
| 72.5° | 302.1  | 301.1  | 389.8  | 825.8  | 1351.0 | 1396.6 | 2092.0 | 9254.4  | 9678.0  | 8974.8  | 6811.3 |
| 75°   | 243.6  | 222.7  | 212.8  | 302.6  | 1298.9 | 1442.3 | 1333.2 | 6367.9  | 6674.3  | 6017.2  | 4187.0 |
| 77.5° | 231.1  | 206.3  | 188.9  | 189.5  | 549.0  | 1529.6 | 1129.3 | 3524.5  | 3613.7  | 2718.0  | 1147.2 |
| 80°   | 191.5  | 168.6  | 156.2  | 176.0  | 265.9  | 1456.7 | 1221.1 | 1595.1  | 1463.6  | 667.6   | 381.9  |
| 82.5° | 132.9  | 121.0  | 117.5  | 147.8  | 212.8  | 1038.1 | 1420.0 | 857.0   | 718.6   | 334.3   | 235.6  |
| 85°   | 84.8   | 72.4   | 80.3   | 107.6  | 165.6  | 479.2  | 1462.6 | 668.1   | 531.2   | 212.3   | 132.9  |
| 87.5° | 39.2   | 31.7   | 39.7   | 59.5   | 108.1  | 165.2  | 1391.7 | 750.4   | 547.1   | 112.1   | 83.8   |
| 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°    | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 | 2169.4 |
| 2.5°  | 2170.4 | 2161.0 | 2153.5 | 2139.6 | 2124.3 | 2109.4 | 2096.0 | 2079.1 | 2074.1 | 2069.7 | 2076.7 |
| 5°    | 2177.4 | 2167.9 | 2140.6 | 2098.0 | 2050.9 | 2006.7 | 1962.6 | 1924.9 | 1901.6 | 1888.7 | 1896.1 |
| 7.5°  | 2187.8 | 2174.4 | 2117.8 | 2039.5 | 1954.7 | 1877.3 | 1797.4 | 1733.5 | 1686.3 | 1664.0 | 1670.5 |
| 10°   | 2197.2 | 2171.4 | 2079.1 | 1961.6 | 1837.6 | 1722.5 | 1596.5 | 1492.4 | 1415.0 | 1374.3 | 1384.3 |
| 12.5° | 2201.2 | 2160.0 | 2025.0 | 1864.4 | 1694.3 | 1525.6 | 1340.2 | 1184.4 | 1073.3 | 1032.7 | 1024.2 |
| 15°   | 2205.1 | 2147.1 | 1965.6 | 1753.7 | 1521.1 | 1282.6 | 1022.7 | 836.3  | 744.0  | 723.6  | 719.1  |
| 17.5° | 2206.1 | 2124.8 | 1898.1 | 1633.8 | 1318.3 | 993.5  | 699.3  | 580.8  | 581.2  | 614.0  | 618.0  |
| 20°   | 2195.7 | 2091.5 | 1816.2 | 1484.5 | 1075.3 | 686.9  | 480.1  | 459.8  | 534.7  | 616.5  | 626.5  |
| 22.5° | 2171.9 | 2047.4 | 1723.6 | 1310.4 | 797.1  | 452.3  | 371.5  | 393.8  | 490.5  | 590.8  | 602.1  |
| 25°   | 2141.6 | 1993.8 | 1613.9 | 1108.5 | 527.7  | 323.4  | 311.5  | 338.8  | 404.3  | 471.2  | 477.6  |
| 27.5° | 2100.4 | 1930.3 | 1491.0 | 877.4  | 342.7  | 266.4  | 274.3  | 292.7  | 319.4  | 349.1  | 352.1  |
| 30°   | 2047.4 | 1854.5 | 1359.5 | 639.9  | 258.9  | 239.6  | 250.9  | 260.9  | 272.3  | 289.2  | 290.6  |
| 32.5° | 1986.4 | 1781.6 | 1224.6 | 441.9  | 229.7  | 225.7  | 234.6  | 239.6  | 248.5  | 258.9  | 259.9  |
| 35°   | 1935.3 | 1712.1 | 1084.7 | 312.5  | 217.3  | 215.2  | 221.2  | 223.2  | 231.6  | 243.1  | 244.0  |
| 37.5° | 1906.1 | 1655.5 | 940.4  | 252.0  | 208.8  | 205.8  | 209.3  | 209.3  | 221.2  | 238.0  | 240.6  |
| 40°   | 1908.0 | 1624.3 | 796.1  | 227.6  | 201.8  | 197.9  | 198.4  | 198.4  | 213.8  | 232.1  | 233.6  |
| 42.5° | 1962.1 | 1632.2 | 668.1  | 218.2  | 196.4  | 191.9  | 189.5  | 191.0  | 203.9  | 215.7  | 216.8  |
| 45°   | 2089.1 | 1688.3 | 548.1  | 212.3  | 191.0  | 189.5  | 184.0  | 183.5  | 188.4  | 194.0  | 194.0  |
| 47.5° | 2297.3 | 1799.0 | 466.7  | 208.3  | 186.5  | 186.0  | 179.5  | 173.1  | 172.6  | 174.6  | 174.6  |
| 50°   | 2636.1 | 1989.3 | 412.1  | 203.9  | 183.5  | 179.5  | 172.1  | 162.1  | 158.8  | 160.2  | 160.2  |
| 52.5° | 3144.0 | 2329.2 | 391.3  | 197.9  | 177.1  | 170.6  | 162.1  | 152.2  | 149.2  | 149.8  | 149.8  |
| 55°   | 3810.1 | 2850.9 | 388.3  | 191.0  | 170.1  | 159.7  | 152.7  | 145.4  | 141.9  | 142.8  | 142.8  |
| 57.5° | 4624.0 | 3572.6 | 441.4  | 180.0  | 160.7  | 148.8  | 144.8  | 139.8  | 137.4  | 138.9  | 138.4  |
| 60°   | 5613.4 | 4516.8 | 654.7  | 168.6  | 151.3  | 138.9  | 138.9  | 134.9  | 132.9  | 134.4  | 133.9  |
| 62.5° | 6753.2 | 5601.6 | 920.6  | 160.2  | 141.4  | 130.9  | 132.9  | 130.9  | 129.0  | 129.9  | 129.4  |
| 65°   | 7764.1 | 6308.3 | 862.0  | 153.7  | 131.4  | 123.5  | 126.9  | 126.0  | 124.5  | 125.5  | 125.0  |
| 67.5° | 7793.4 | 6046.5 | 484.1  | 146.8  | 122.0  | 116.1  | 121.0  | 120.5  | 119.5  | 120.5  | 120.0  |
| 70°   | 6955.1 | 5105.6 | 272.8  | 133.9  | 112.1  | 107.1  | 114.1  | 113.5  | 112.6  | 114.6  | 114.1  |
| 72.5° | 5572.3 | 3704.9 | 199.4  | 118.0  | 102.2  | 97.7   | 105.7  | 105.2  | 105.2  | 108.1  | 106.6  |
| 75°   | 3206.5 | 1906.6 | 159.2  | 101.2  | 91.8   | 88.3   | 95.2   | 95.7   | 96.7   | 100.7  | 97.7   |
| 77.5° | 914.1  | 594.2  | 129.9  | 85.8   | 78.9   | 77.3   | 84.3   | 85.3   | 85.8   | 90.2   | 86.3   |
| 80°   | 339.7  | 273.7  | 107.1  | 71.9   | 64.4   | 65.0   | 71.4   | 72.9   | 73.4   | 77.8   | 72.9   |
| 82.5° | 216.8  | 180.6  | 86.7   | 55.5   | 50.6   | 50.1   | 58.0   | 60.0   | 60.0   | 60.6   | 57.5   |
| 85°   | 126.4  | 108.1  | 65.5   | 40.2   | 35.7   | 34.3   | 43.2   | 46.6   | 45.1   | 44.2   | 42.1   |
| 87.5° | 84.8   | 74.4   | 40.2   | 22.3   | 19.3   | 18.3   | 25.3   | 27.8   | 26.8   | 25.3   | 23.8   |
| 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)