

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: P200132

Luminaire Tested: **GAP-AF-02-LED-U-SL3-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 615mA 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: 8373.9 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

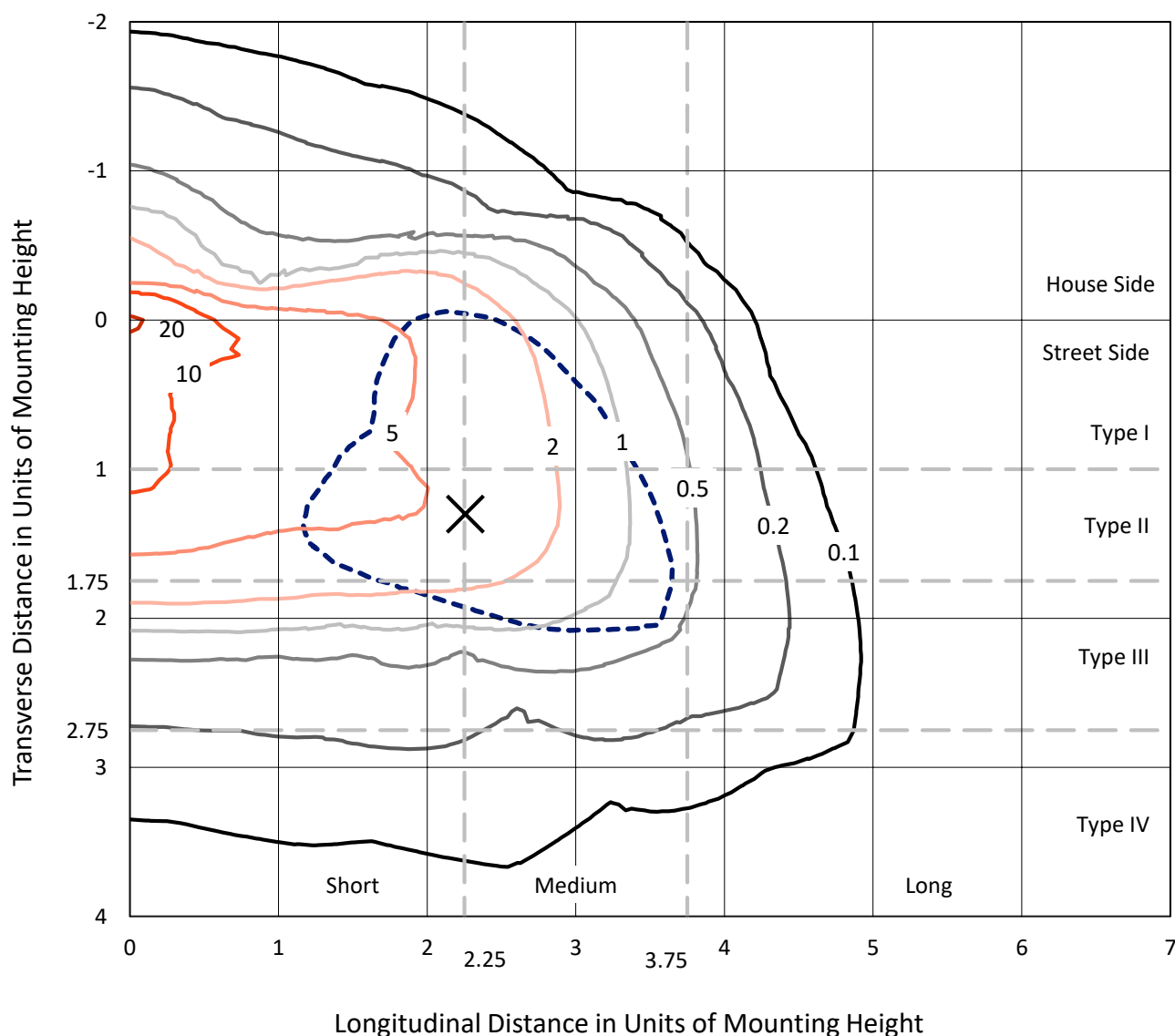


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

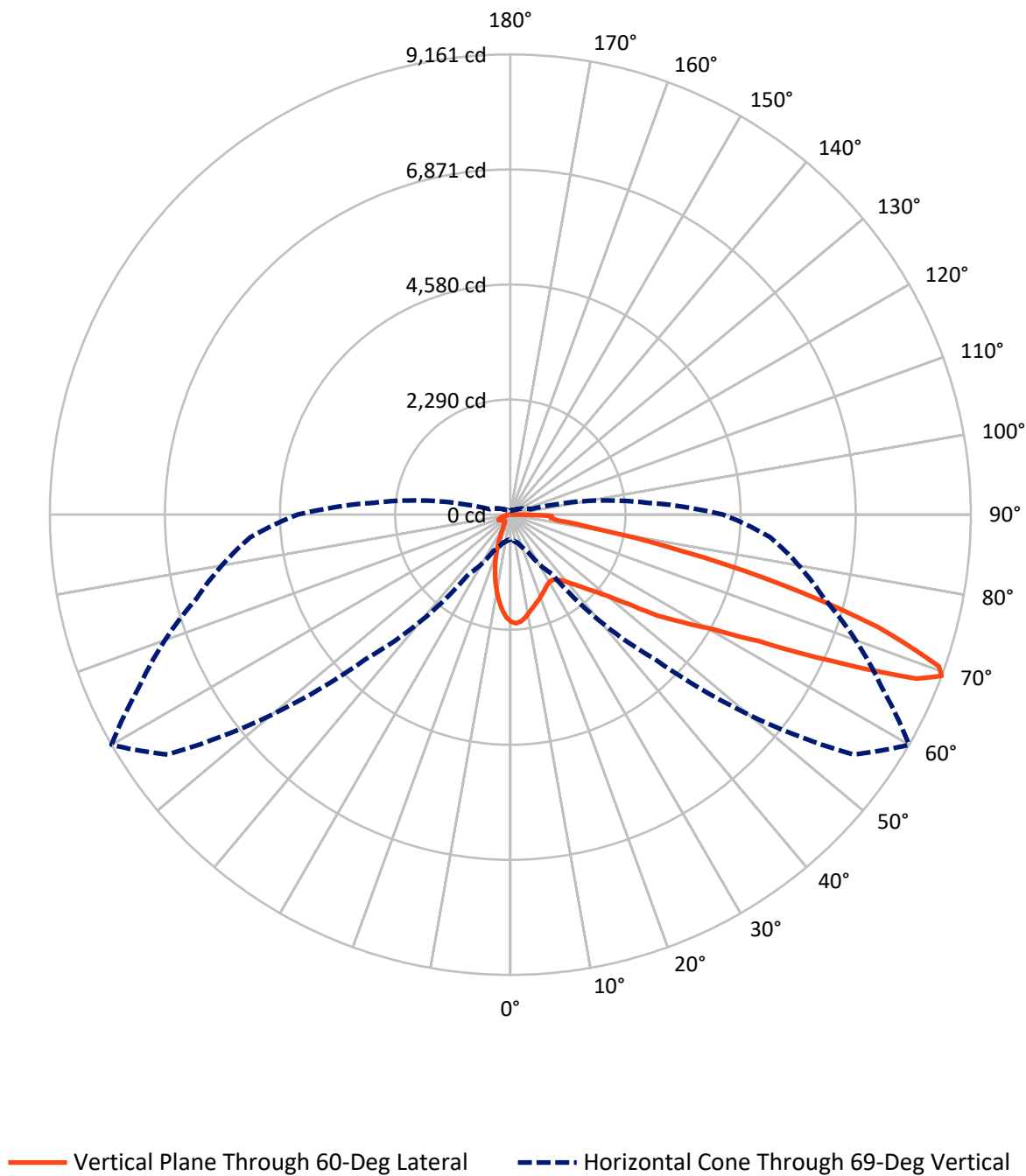


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc  
Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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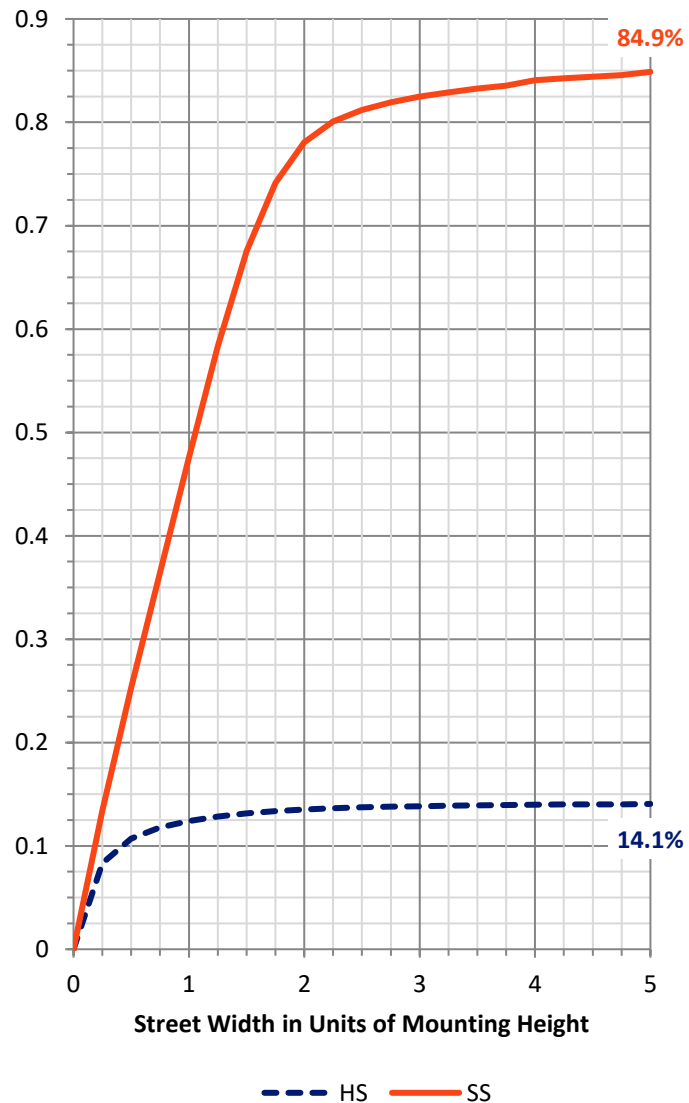
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1191.3   | 0.0    | 1191.3 |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 7182.5   | 0.0    | 7182.5 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 8373.9   | 0.0    | 8373.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.4  | 2.2       |
| 10°-20°   | 384.4  | 4.6       |
| 20°-30°   | 489.8  | 5.8       |
| 30°-40°   | 673.3  | 8.0       |
| 40°-50°   | 1092.5 | 13.0      |
| 50°-60°   | 1752.2 | 20.9      |
| 60°-70°   | 2332.0 | 27.8      |
| 70°-80°   | 1259.1 | 15.0      |
| 80°-90°   | 210.1  | 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°    | 8373.9 | 100.0     |
| 0°-180°   | 8373.9 | 100.0     |

**Coefficient of Utilization**



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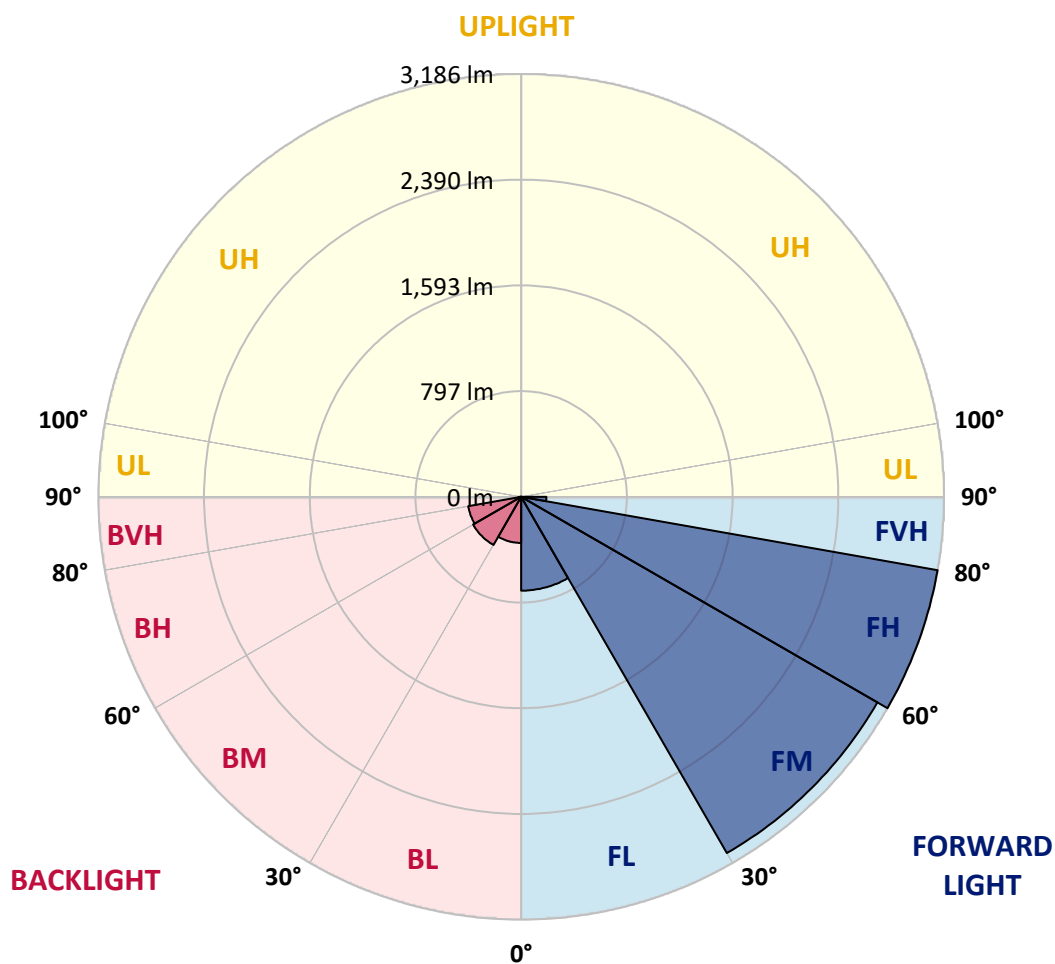
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 707.1  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 3099.5 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 3186.1 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 189.9  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 347.5  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 418.5  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 405.0  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 20.2   | 0.2       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 |
| 2.5°  | 2177.5 | 2182.4 | 2180.3 | 2179.1 | 2182.8 | 2177.0 | 2165.4 | 2161.7 | 2156.1 | 2142.7 | 2120.1 |
| 5°    | 2095.7 | 2110.3 | 2109.5 | 2120.5 | 2138.7 | 2143.5 | 2138.3 | 2139.1 | 2128.6 | 2112.0 | 2074.3 |
| 7.5°  | 1954.6 | 1960.7 | 1963.9 | 1987.8 | 2020.9 | 2047.6 | 2070.2 | 2077.6 | 2072.7 | 2058.6 | 2010.0 |
| 10°   | 1809.0 | 1813.8 | 1821.5 | 1849.4 | 1891.5 | 1928.3 | 1971.2 | 1995.9 | 2006.4 | 2004.0 | 1949.7 |
| 12.5° | 1684.0 | 1688.8 | 1698.9 | 1730.5 | 1780.7 | 1826.0 | 1888.3 | 1919.0 | 1944.1 | 1959.1 | 1900.7 |
| 15°   | 1572.0 | 1582.4 | 1592.1 | 1628.5 | 1684.8 | 1744.2 | 1814.6 | 1853.5 | 1892.3 | 1925.9 | 1857.5 |
| 17.5° | 1484.5 | 1495.0 | 1500.8 | 1533.9 | 1593.8 | 1666.6 | 1749.1 | 1794.8 | 1843.4 | 1898.4 | 1814.6 |
| 20°   | 1434.0 | 1438.9 | 1436.4 | 1455.0 | 1508.9 | 1586.1 | 1684.0 | 1737.0 | 1795.6 | 1872.5 | 1771.8 |
| 22.5° | 1419.9 | 1420.3 | 1411.4 | 1409.3 | 1444.1 | 1509.3 | 1614.4 | 1678.8 | 1750.7 | 1855.5 | 1734.9 |
| 25°   | 1454.2 | 1453.0 | 1428.8 | 1408.9 | 1412.6 | 1450.5 | 1547.2 | 1622.1 | 1713.1 | 1851.8 | 1706.6 |
| 27.5° | 1530.6 | 1534.3 | 1498.3 | 1461.1 | 1424.3 | 1423.0 | 1496.3 | 1575.1 | 1682.3 | 1868.4 | 1694.5 |
| 30°   | 1637.8 | 1643.9 | 1605.5 | 1558.2 | 1489.0 | 1431.9 | 1476.4 | 1547.2 | 1663.3 | 1902.8 | 1692.5 |
| 32.5° | 1755.2 | 1761.6 | 1732.5 | 1682.8 | 1592.1 | 1487.0 | 1490.2 | 1549.7 | 1662.5 | 1951.0 | 1706.2 |
| 35°   | 1880.2 | 1887.4 | 1872.5 | 1830.4 | 1729.7 | 1588.5 | 1542.8 | 1588.9 | 1688.8 | 2024.5 | 1743.0 |
| 37.5° | 2019.7 | 2031.1 | 2035.1 | 1995.1 | 1887.4 | 1722.4 | 1628.9 | 1663.3 | 1748.3 | 2126.9 | 1810.6 |
| 40°   | 2220.7 | 2236.6 | 2235.4 | 2177.9 | 2068.3 | 1903.2 | 1762.0 | 1770.9 | 1840.9 | 2263.7 | 1918.5 |
| 42.5° | 2605.9 | 2609.1 | 2508.4 | 2383.4 | 2267.3 | 2093.4 | 1919.0 | 1911.7 | 1968.8 | 2436.8 | 2077.6 |
| 45°   | 3095.8 | 3082.4 | 2858.2 | 2616.8 | 2475.2 | 2311.8 | 2123.2 | 2087.6 | 2130.9 | 2647.9 | 2276.6 |
| 47.5° | 3502.3 | 3471.5 | 3188.3 | 2855.1 | 2695.3 | 2549.2 | 2363.1 | 2300.8 | 2324.8 | 2887.4 | 2533.8 |
| 50°   | 3643.4 | 3620.3 | 3385.8 | 3053.2 | 2903.5 | 2838.9 | 2658.4 | 2570.3 | 2576.7 | 3173.0 | 2835.2 |
| 52.5° | 3613.1 | 3609.9 | 3453.3 | 3183.9 | 3098.5 | 3143.0 | 3076.7 | 2957.4 | 2894.2 | 3490.1 | 3160.4 |
| 55°   | 3541.5 | 3548.4 | 3491.7 | 3335.9 | 3321.4 | 3436.7 | 3623.2 | 3535.0 | 3338.8 | 3810.1 | 3496.5 |
| 57.5° | 3292.7 | 3310.5 | 3435.1 | 3527.3 | 3680.3 | 3851.7 | 4063.3 | 4038.2 | 3817.3 | 4155.9 | 3896.2 |
| 60°   | 2652.8 | 2694.0 | 3028.1 | 3490.1 | 4049.6 | 4585.9 | 4680.6 | 4622.3 | 4310.8 | 4585.2 | 4424.2 |
| 62.5° | 1858.7 | 1901.6 | 2298.9 | 3021.7 | 3988.9 | 5415.2 | 5784.1 | 5532.9 | 5019.5 | 5217.4 | 5107.4 |
| 65°   | 995.1  | 1015.7 | 1319.1 | 2096.5 | 3367.6 | 5586.3 | 7396.9 | 7014.6 | 6141.7 | 5996.8 | 5691.9 |
| 67.5° | 548.9  | 560.3  | 676.4  | 1058.7 | 2156.9 | 4919.3 | 8424.3 | 8713.2 | 7544.2 | 6515.9 | 5585.5 |
| 69°   | 496.3  | 506.9  | 582.9  | 801.8  | 1443.3 | 4067.4 | 8324.1 | 9160.9 | 8159.0 | 6464.4 | 5192.3 |
| 70°   | 485.4  | 495.1  | 563.4  | 739.1  | 1168.2 | 3352.6 | 7987.8 | 9046.5 | 8305.4 | 6280.4 | 4849.3 |
| 72.5° | 436.9  | 447.4  | 513.7  | 663.8  | 998.3  | 1671.4 | 6327.4 | 7648.9 | 7540.5 | 5445.5 | 3678.2 |
| 75°   | 407.3  | 417.1  | 529.5  | 650.1  | 955.8  | 1057.8 | 4171.3 | 5637.3 | 5543.0 | 3809.3 | 1983.3 |
| 77.5° | 174.3  | 173.5  | 245.5  | 550.1  | 970.1  | 1024.2 | 2241.4 | 3521.7 | 3213.0 | 1628.1 | 569.6  |
| 80°   | 116.5  | 114.5  | 116.5  | 161.8  | 889.6  | 1029.9 | 1174.2 | 1787.5 | 1350.3 | 415.0  | 280.7  |
| 82.5° | 100.4  | 98.7   | 102.3  | 98.7   | 312.7  | 1175.5 | 998.3  | 950.6  | 642.0  | 235.8  | 139.1  |
| 85°   | 67.5   | 64.8   | 88.2   | 88.6   | 147.6  | 1044.4 | 1124.5 | 802.9  | 519.4  | 139.9  | 68.7   |
| 87.5° | 32.3   | 31.5   | 51.4   | 62.7   | 86.5   | 424.3  | 1261.7 | 822.8  | 523.9  | 71.6   | 32.7   |
| 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°    | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 | 2133.8 |
| 2.5°  | 2113.1 | 2096.5 | 2080.4 | 2060.9 | 2040.8 | 2018.1 | 2006.8 | 1995.5 | 1992.6 | 1989.3 | 1978.1 |
| 5°    | 2054.9 | 2031.5 | 1991.0 | 1946.5 | 1899.6 | 1853.9 | 1819.1 | 1797.2 | 1780.7 | 1772.2 | 1757.2 |
| 7.5°  | 1979.7 | 1945.2 | 1874.5 | 1797.6 | 1718.8 | 1646.7 | 1584.4 | 1545.3 | 1508.0 | 1490.6 | 1470.8 |
| 10°   | 1908.1 | 1856.7 | 1746.7 | 1633.4 | 1520.1 | 1411.4 | 1309.0 | 1236.5 | 1172.3 | 1136.3 | 1110.8 |
| 12.5° | 1846.6 | 1776.3 | 1623.7 | 1470.4 | 1315.1 | 1160.1 | 1006.8 | 886.3  | 785.5  | 732.5  | 705.4  |
| 15°   | 1786.7 | 1701.8 | 1506.8 | 1312.2 | 1112.8 | 902.0  | 700.6  | 563.9  | 480.6  | 447.4  | 436.1  |
| 17.5° | 1732.5 | 1623.7 | 1389.5 | 1152.9 | 904.1  | 649.3  | 470.9  | 395.6  | 363.7  | 352.7  | 349.1  |
| 20°   | 1673.9 | 1544.9 | 1267.7 | 986.2  | 686.5  | 453.9  | 367.6  | 334.5  | 321.6  | 318.3  | 316.7  |
| 22.5° | 1617.2 | 1467.1 | 1151.2 | 807.8  | 493.1  | 350.3  | 315.9  | 302.2  | 300.1  | 303.0  | 303.0  |
| 25°   | 1569.1 | 1397.6 | 1025.4 | 621.3  | 362.0  | 294.9  | 282.7  | 279.5  | 287.2  | 297.7  | 299.7  |
| 27.5° | 1533.1 | 1340.6 | 891.5  | 458.7  | 288.4  | 256.5  | 256.0  | 261.4  | 280.3  | 300.5  | 304.6  |
| 30°   | 1508.4 | 1286.4 | 748.4  | 330.9  | 241.9  | 225.8  | 232.2  | 243.6  | 271.4  | 300.1  | 307.8  |
| 32.5° | 1495.9 | 1246.3 | 599.0  | 256.0  | 207.1  | 198.2  | 209.1  | 222.9  | 250.4  | 277.1  | 287.2  |
| 35°   | 1505.6 | 1216.8 | 458.3  | 213.6  | 182.8  | 175.9  | 187.3  | 200.6  | 216.9  | 228.1  | 235.8  |
| 37.5° | 1542.0 | 1205.0 | 345.9  | 191.3  | 166.2  | 159.8  | 168.7  | 176.4  | 182.8  | 186.1  | 189.8  |
| 40°   | 1620.5 | 1217.6 | 277.1  | 180.0  | 156.9  | 148.8  | 152.5  | 155.3  | 159.4  | 162.6  | 164.2  |
| 42.5° | 1736.2 | 1255.2 | 248.4  | 175.5  | 152.1  | 140.3  | 139.5  | 140.8  | 146.1  | 152.1  | 153.3  |
| 45°   | 1898.0 | 1321.6 | 246.3  | 178.4  | 149.7  | 133.5  | 129.8  | 131.4  | 139.5  | 148.8  | 150.5  |
| 47.5° | 2104.6 | 1422.6 | 262.5  | 186.9  | 151.7  | 129.8  | 123.8  | 125.8  | 136.0  | 148.4  | 150.5  |
| 50°   | 2355.0 | 1563.8 | 289.6  | 199.4  | 160.6  | 130.6  | 121.7  | 123.0  | 133.5  | 147.2  | 149.2  |
| 52.5° | 2650.8 | 1764.1 | 319.2  | 211.5  | 169.9  | 136.0  | 123.4  | 120.5  | 130.2  | 142.4  | 144.8  |
| 55°   | 2979.7 | 2020.9 | 349.5  | 222.5  | 174.7  | 142.4  | 126.6  | 117.3  | 124.2  | 134.3  | 136.4  |
| 57.5° | 3383.3 | 2380.1 | 402.1  | 233.0  | 178.0  | 146.8  | 129.8  | 114.1  | 116.5  | 123.8  | 125.4  |
| 60°   | 3929.8 | 2888.2 | 494.7  | 250.4  | 185.3  | 148.4  | 129.4  | 111.2  | 108.8  | 112.8  | 113.6  |
| 62.5° | 4584.8 | 3440.0 | 571.9  | 272.2  | 197.4  | 149.7  | 127.1  | 109.3  | 102.3  | 102.3  | 103.1  |
| 65°   | 4973.5 | 3587.6 | 529.1  | 290.4  | 207.6  | 148.4  | 124.2  | 107.2  | 97.5   | 93.0   | 93.4   |
| 67.5° | 4643.8 | 3155.2 | 453.5  | 294.1  | 207.1  | 142.8  | 119.7  | 103.5  | 92.7   | 85.7   | 85.3   |
| 69°   | 4230.7 | 2722.4 | 419.5  | 284.4  | 197.4  | 135.5  | 114.1  | 99.5   | 89.0   | 81.7   | 81.3   |
| 70°   | 3897.9 | 2458.3 | 397.2  | 273.8  | 186.9  | 130.2  | 109.7  | 95.9   | 86.1   | 79.3   | 78.5   |
| 72.5° | 2834.0 | 1610.7 | 339.4  | 235.4  | 154.2  | 109.3  | 94.6   | 84.2   | 76.8   | 72.8   | 72.0   |
| 75°   | 1416.2 | 768.1  | 275.5  | 190.9  | 118.2  | 87.4   | 77.6   | 70.4   | 66.7   | 66.0   | 65.6   |
| 77.5° | 465.1  | 351.9  | 197.0  | 142.4  | 87.8   | 68.3   | 62.7   | 57.5   | 56.7   | 59.0   | 58.2   |
| 80°   | 255.6  | 204.7  | 125.0  | 94.2   | 59.8   | 50.1   | 49.3   | 46.5   | 47.8   | 51.8   | 50.9   |
| 82.5° | 130.2  | 106.4  | 77.2   | 56.7   | 40.4   | 36.0   | 39.3   | 37.6   | 39.3   | 42.9   | 42.5   |
| 85°   | 64.3   | 58.2   | 48.9   | 34.4   | 26.7   | 23.0   | 27.9   | 29.2   | 30.0   | 32.7   | 32.7   |
| 87.5° | 37.2   | 34.4   | 25.9   | 16.2   | 13.3   | 12.2   | 16.2   | 15.8   | 18.6   | 20.3   | 19.8   |
| 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)