

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: P947574

Luminaire Tested: **GLAN-SB2D-850-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-850-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19827 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

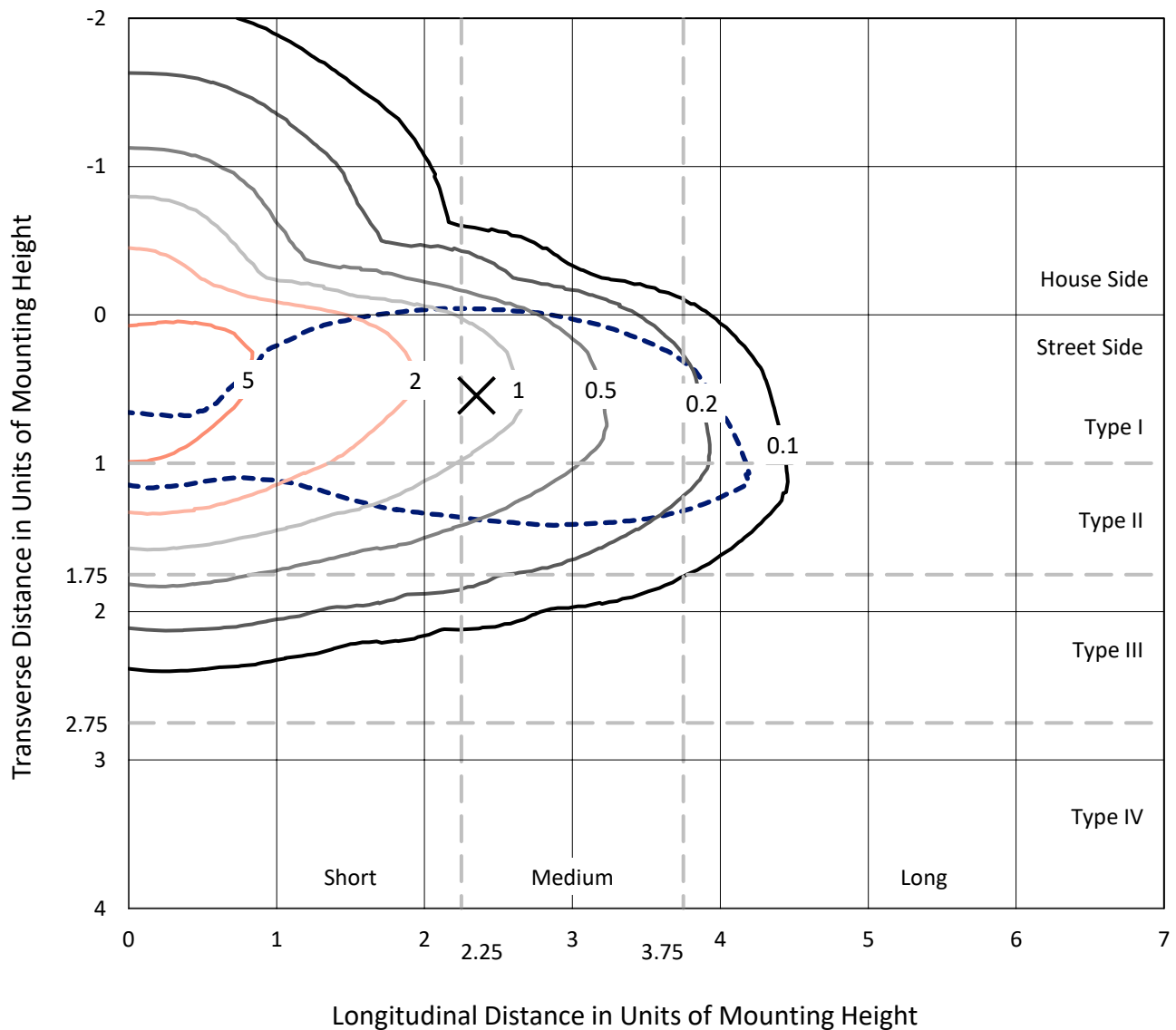
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

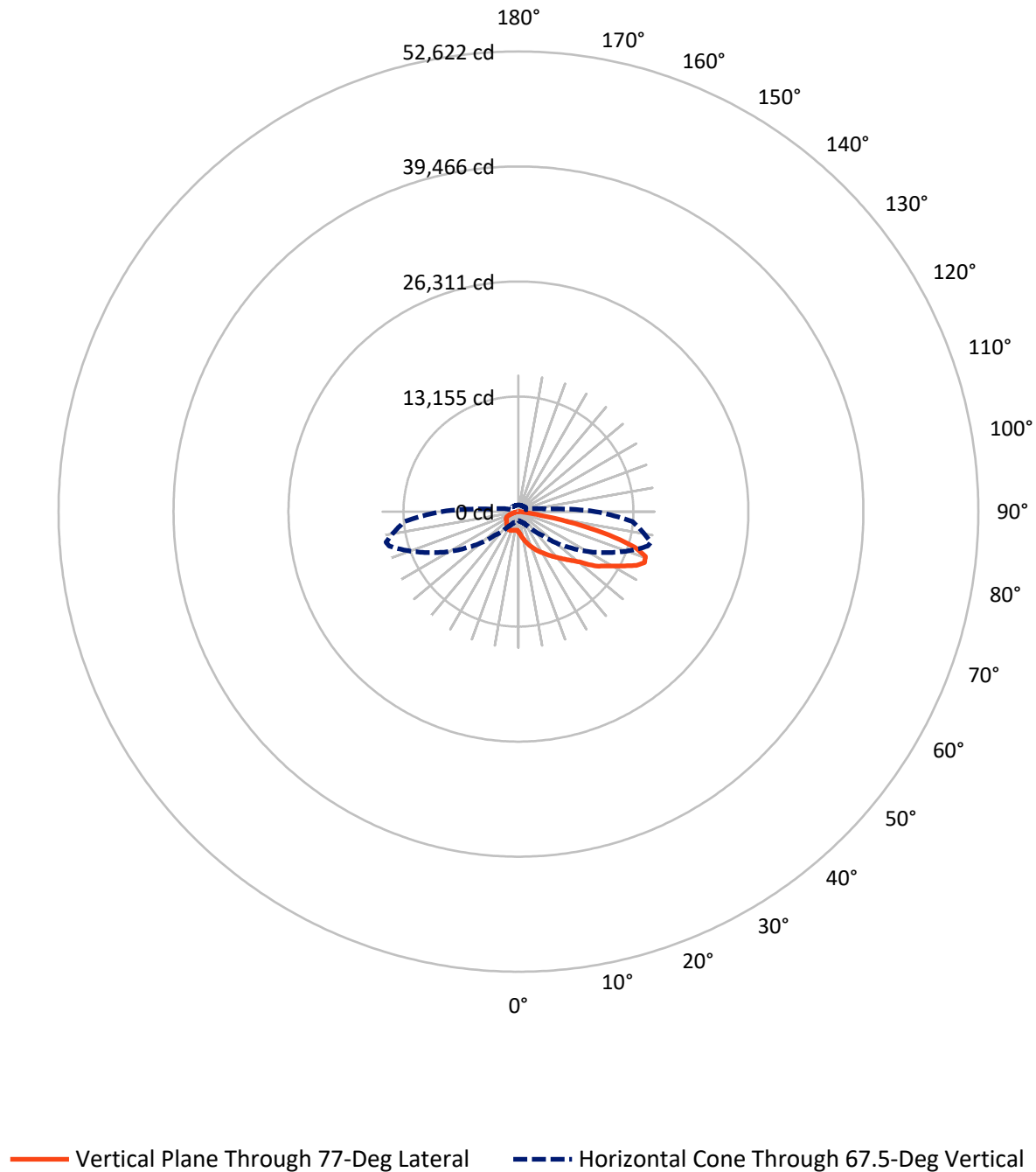
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3750.5   | 0.0    | 3750.5  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 16076.5  | 0.0    | 16076.5 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 19827.0  | 0.0    | 19827.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 249.4   | 1.3       |
| 10°-20°   | 895.8   | 4.5       |
| 20°-30°   | 1691.4  | 8.5       |
| 30°-40°   | 2724.8  | 13.7      |
| 40°-50°   | 3727.0  | 18.8      |
| 50°-60°   | 4204.1  | 21.2      |
| 60°-70°   | 3924.0  | 19.8      |
| 70°-80°   | 2151.0  | 10.8      |
| 80°-90°   | 259.5   | 1.3       |
| 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°    | 19827.0 | 100.0     |
| 0°-180°   | 19827.0 | 100.0     |

**Coefficient of Utilization**



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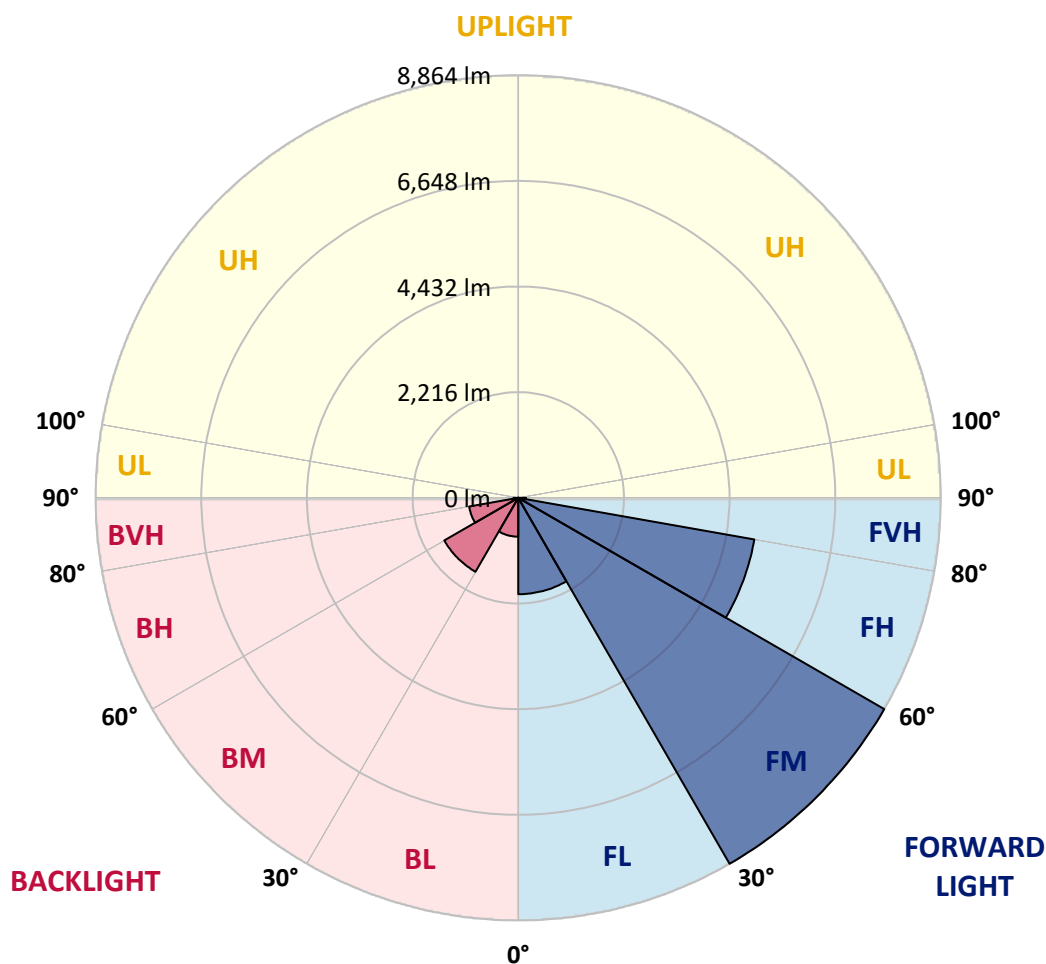
CATALOG NUMBER: GLAN-SB2D-850-U-T2R

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2021.1 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 8864.4 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 5028.7 | 25.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 162.3  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 815.4  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1791.5 | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1046.3 | 5.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 97.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3  | 2326.3  | 2326.3  |
| 2.5°  | 2912.8 | 2933.2 | 2907.6 | 2907.6 | 2821.7 | 2776.6 | 2690.7 | 2625.2  | 2507.5  | 2487.0  |
| 5°    | 3442.9 | 3468.5 | 3432.7 | 3417.3 | 3316.0 | 3222.9 | 3078.6 | 2936.3  | 2726.5  | 2705.0  |
| 7.5°  | 3853.3 | 3886.1 | 3854.3 | 3838.0 | 3747.9 | 3643.5 | 3474.6 | 3276.1  | 2980.3  | 2938.4  |
| 10°   | 4188.0 | 4193.1 | 4182.9 | 4189.0 | 4118.4 | 4032.4 | 3859.5 | 3628.2  | 3258.7  | 3201.4  |
| 12.5° | 4377.3 | 4400.9 | 4421.3 | 4458.2 | 4445.9 | 4392.7 | 4237.1 | 3960.8  | 3553.5  | 3479.8  |
| 15°   | 4466.4 | 4507.3 | 4553.4 | 4638.3 | 4706.9 | 4720.2 | 4601.5 | 4318.0  | 3853.3  | 3764.3  |
| 17.5° | 4498.1 | 4537.0 | 4609.7 | 4732.5 | 4879.9 | 4979.1 | 4925.9 | 4664.9  | 4150.1  | 4047.8  |
| 20°   | 4658.8 | 4670.0 | 4714.1 | 4830.7 | 4990.4 | 5155.2 | 5195.1 | 4998.6  | 4443.9  | 4328.2  |
| 22.5° | 5002.7 | 4980.2 | 4992.4 | 5045.7 | 5160.3 | 5319.9 | 5411.0 | 5293.3  | 4745.8  | 4612.7  |
| 25°   | 5570.7 | 5505.2 | 5439.7 | 5378.3 | 5436.6 | 5526.7 | 5630.0 | 5588.1  | 5062.0  | 4893.2  |
| 27.5° | 6288.1 | 6208.3 | 6064.0 | 5862.4 | 5791.8 | 5823.5 | 5869.5 | 5861.4  | 5354.7  | 5183.8  |
| 30°   | 6994.3 | 6901.2 | 6729.2 | 6437.6 | 6251.3 | 6167.4 | 6132.6 | 6109.0  | 5673.0  | 5490.9  |
| 32.5° | 7558.2 | 7484.6 | 7315.7 | 6989.2 | 6719.0 | 6575.7 | 6460.1 | 6376.2  | 6005.7  | 5823.5  |
| 35°   | 8051.6 | 7983.0 | 7789.5 | 7433.4 | 7139.7 | 6987.2 | 6835.7 | 6656.6  | 6351.6  | 6167.4  |
| 37.5° | 8501.9 | 8433.3 | 8168.2 | 7797.7 | 7502.0 | 7396.5 | 7261.4 | 6957.5  | 6698.5  | 6524.6  |
| 40°   | 8786.4 | 8771.0 | 8523.4 | 8103.8 | 7796.7 | 7744.5 | 7699.5 | 7306.5  | 7083.4  | 6921.7  |
| 42.5° | 8859.1 | 8892.8 | 8696.3 | 8351.4 | 8058.7 | 8016.8 | 8122.2 | 7701.5  | 7515.3  | 7360.7  |
| 45°   | 8684.1 | 8781.3 | 8652.3 | 8418.0 | 8245.0 | 8222.5 | 8496.8 | 8133.4  | 7993.2  | 7852.0  |
| 47.5° | 8240.9 | 8405.7 | 8352.5 | 8319.7 | 8295.1 | 8392.4 | 8826.3 | 8591.9  | 8534.6  | 8411.8  |
| 50°   | 7346.4 | 7658.5 | 7751.7 | 7958.4 | 8195.9 | 8524.4 | 9126.2 | 9092.4  | 9167.1  | 9043.3  |
| 52.5° | 5799.9 | 6229.8 | 6770.2 | 7288.1 | 7890.9 | 8480.4 | 9455.7 | 9810.9  | 10126.1 | 10058.6 |
| 55°   | 4787.7 | 4981.2 | 5396.7 | 6346.5 | 7299.3 | 8295.1 | 9604.1 | 10391.2 | 11077.9 | 11017.5 |
| 57.5° | 4009.9 | 4182.9 | 4438.7 | 5231.9 | 6404.8 | 7874.5 | 9696.3 | 10745.3 | 11729.9 | 11723.7 |
| 60°   | 3175.8 | 3359.0 | 3621.0 | 4182.9 | 5359.9 | 7147.8 | 9675.8 | 11148.5 | 12561.9 | 12613.1 |
| 62.5° | 2234.2 | 2435.8 | 2726.5 | 3250.5 | 4292.4 | 6206.3 | 9258.2 | 11440.2 | 13541.4 | 13680.6 |
| 65°   | 1468.7 | 1601.7 | 1820.7 | 2273.1 | 3198.3 | 4995.5 | 8460.9 | 11478.1 | 14589.4 | 14824.8 |
| 67.5° | 1029.6 | 1080.8 | 1209.7 | 1455.4 | 2108.3 | 3830.8 | 7190.8 | 11086.1 | 15288.4 | 15553.5 |
| 70°   | 803.4  | 829.0  | 894.5  | 992.8  | 1324.4 | 2576.0 | 5510.3 | 10066.7 | 15139.0 | 15415.3 |
| 72.5° | 693.9  | 718.5  | 743.0  | 755.3  | 888.4  | 1590.5 | 3732.6 | 8416.9  | 13731.8 | 13919.0 |
| 75°   | 629.4  | 635.6  | 656.0  | 651.9  | 677.5  | 1031.6 | 2154.4 | 6132.6  | 10834.3 | 10769.9 |
| 77.5° | 529.1  | 537.3  | 571.1  | 566.0  | 601.8  | 705.2  | 1118.6 | 3957.7  | 7024.0  | 6586.0  |
| 80°   | 448.3  | 452.4  | 489.2  | 483.1  | 523.0  | 510.7  | 571.1  | 2017.2  | 2979.3  | 2523.9  |
| 82.5° | 155.6  | 192.4  | 373.6  | 384.8  | 399.1  | 309.1  | 329.6  | 822.9   | 909.9   | 697.0   |
| 85°   | 75.7   | 80.9   | 190.4  | 270.2  | 269.2  | 155.6  | 160.7  | 293.7   | 286.6   | 225.2   |
| 87.5° | 12.3   | 15.4   | 22.5   | 105.4  | 83.9   | 40.9   | 55.3   | 57.3    | 59.4    | 51.2    |
| 90°   | 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):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2326.3  | 0°    | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 | 2326.3 |
| 2409.2  | 2.5°  | 2351.9 | 2300.7 | 2193.3 | 2094.0 | 2016.2 | 1941.5 | 1899.5 | 1863.7 | 1843.3 | 1839.2 |
| 2521.8  | 5°    | 2415.4 | 2309.9 | 2114.5 | 1949.7 | 1842.2 | 1762.4 | 1720.4 | 1693.8 | 1680.5 | 1672.3 |
| 2673.3  | 7.5°  | 2506.5 | 2351.9 | 2073.5 | 1886.2 | 1773.7 | 1716.3 | 1694.8 | 1690.8 | 1689.7 | 1690.8 |
| 2856.5  | 10°   | 2632.3 | 2420.5 | 2069.4 | 1870.9 | 1776.7 | 1745.0 | 1744.0 | 1745.0 | 1749.1 | 1750.1 |
| 3056.0  | 12.5° | 2768.5 | 2491.1 | 2085.8 | 1884.2 | 1815.6 | 1798.2 | 1795.1 | 1794.1 | 1797.2 | 1799.2 |
| 3257.7  | 15°   | 2916.9 | 2584.2 | 2113.4 | 1912.8 | 1858.6 | 1840.2 | 1837.1 | 1831.0 | 1829.9 | 1828.9 |
| 3469.5  | 17.5° | 3069.4 | 2676.3 | 2144.1 | 1943.5 | 1886.2 | 1860.6 | 1849.4 | 1835.1 | 1823.8 | 1820.7 |
| 3688.5  | 20°   | 3223.9 | 2767.4 | 2165.6 | 1958.9 | 1888.3 | 1852.5 | 1829.9 | 1805.4 | 1785.9 | 1774.7 |
| 3909.6  | 22.5° | 3388.7 | 2862.6 | 2178.9 | 1954.8 | 1869.9 | 1820.7 | 1779.8 | 1751.1 | 1721.5 | 1702.0 |
| 4132.7  | 25°   | 3549.4 | 2945.5 | 2177.9 | 1933.3 | 1834.0 | 1771.6 | 1719.4 | 1682.6 | 1641.6 | 1621.2 |
| 4363.0  | 27.5° | 3703.9 | 3020.2 | 2152.3 | 1895.4 | 1782.9 | 1713.3 | 1650.8 | 1606.8 | 1566.9 | 1547.5 |
| 4595.3  | 30°   | 3863.6 | 3082.7 | 2112.4 | 1840.2 | 1722.5 | 1645.7 | 1577.2 | 1539.3 | 1503.5 | 1485.0 |
| 4841.0  | 32.5° | 4022.2 | 3140.0 | 2056.1 | 1771.6 | 1652.9 | 1579.2 | 1511.6 | 1476.9 | 1455.4 | 1455.4 |
| 5105.0  | 35°   | 4190.0 | 3179.9 | 1981.4 | 1691.8 | 1579.2 | 1508.6 | 1455.4 | 1434.9 | 1432.8 | 1420.6 |
| 5384.4  | 37.5° | 4367.1 | 3205.5 | 1890.3 | 1609.9 | 1506.5 | 1440.0 | 1423.6 | 1399.1 | 1378.6 | 1352.0 |
| 5691.5  | 40°   | 4553.4 | 3231.1 | 1780.8 | 1525.0 | 1429.8 | 1392.9 | 1385.8 | 1353.0 | 1294.7 | 1229.2 |
| 6039.4  | 42.5° | 4779.6 | 3248.5 | 1667.2 | 1440.0 | 1348.9 | 1336.6 | 1346.9 | 1290.6 | 1197.4 | 1148.3 |
| 6459.1  | 45°   | 5041.6 | 3277.1 | 1562.8 | 1356.1 | 1266.0 | 1266.0 | 1309.0 | 1235.3 | 1158.6 | 1127.9 |
| 6938.0  | 47.5° | 5381.3 | 3343.6 | 1465.6 | 1264.0 | 1189.3 | 1209.7 | 1225.1 | 1168.8 | 1125.8 | 1087.9 |
| 7521.4  | 50°   | 5872.6 | 3503.3 | 1365.3 | 1170.8 | 1130.9 | 1171.9 | 1150.4 | 1117.6 | 1067.5 | 1036.8 |
| 8448.7  | 52.5° | 6482.6 | 3597.5 | 1276.3 | 1086.9 | 1080.8 | 1121.7 | 1091.0 | 1060.3 | 1022.4 | 981.5  |
| 9151.8  | 55°   | 6898.1 | 3614.9 | 1201.5 | 1025.5 | 1047.0 | 1042.9 | 1031.6 | 1004.0 | 983.5  | 929.3  |
| 9845.7  | 57.5° | 7362.8 | 3649.7 | 1140.1 | 988.7  | 1025.5 | 980.5  | 976.4  | 952.8  | 926.2  | 889.4  |
| 10692.1 | 60°   | 7918.5 | 3703.9 | 1086.9 | 974.3  | 1007.1 | 939.5  | 919.1  | 909.9  | 883.2  | 864.8  |
| 11710.4 | 62.5° | 8524.4 | 3753.0 | 1032.7 | 976.4  | 985.6  | 899.6  | 868.9  | 865.8  | 849.5  | 843.3  |
| 12666.3 | 65°   | 8937.9 | 3619.0 | 965.1  | 974.3  | 951.8  | 858.7  | 819.8  | 818.8  | 805.5  | 803.4  |
| 13080.8 | 67.5° | 8793.6 | 3194.2 | 874.0  | 945.7  | 917.0  | 817.7  | 774.8  | 770.7  | 753.3  | 754.3  |
| 12647.9 | 70°   | 8071.0 | 2588.3 | 748.1  | 875.1  | 874.0  | 780.9  | 727.7  | 714.4  | 690.8  | 694.9  |
| 10997.1 | 72.5° | 6715.9 | 1918.0 | 579.3  | 757.4  | 805.5  | 747.1  | 673.4  | 651.9  | 622.3  | 626.4  |
| 8118.1  | 75°   | 4850.2 | 1303.9 | 421.7  | 576.2  | 701.1  | 707.2  | 620.2  | 583.4  | 547.6  | 553.7  |
| 4518.6  | 77.5° | 2481.9 | 738.9  | 310.1  | 397.1  | 550.6  | 642.7  | 572.1  | 523.0  | 514.8  | 572.1  |
| 1302.9  | 80°   | 809.6  | 370.5  | 214.9  | 278.4  | 361.3  | 526.1  | 501.5  | 445.2  | 443.2  | 456.5  |
| 273.3   | 82.5° | 241.5  | 156.6  | 138.2  | 183.2  | 199.6  | 403.2  | 432.9  | 336.7  | 289.6  | 305.0  |
| 91.1    | 85°   | 82.9   | 75.7   | 78.8   | 91.1   | 95.2   | 236.4  | 302.9  | 223.1  | 210.8  | 232.3  |
| 20.5    | 87.5° | 19.4   | 26.6   | 22.5   | 20.5   | 20.5   | 57.3   | 117.7  | 93.1   | 129.0  | 86.0   |
| 0.0     | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| 180°   |
|--------|
| 2326.3 |
| 1839.2 |
| 1671.3 |
| 1693.8 |
| 1751.1 |
| 1800.3 |
| 1827.9 |
| 1823.8 |
| 1778.8 |
| 1703.0 |
| 1621.2 |
| 1546.4 |
| 1484.0 |
| 1456.4 |
| 1417.5 |
| 1347.9 |
| 1220.0 |
| 1149.3 |
| 1133.0 |
| 1086.9 |
| 1033.7 |
| 973.3  |
| 930.3  |
| 877.1  |
| 869.9  |
| 843.3  |
| 802.4  |
| 754.3  |
| 699.0  |
| 625.3  |
| 555.7  |
| 563.9  |
| 392.0  |
| 315.2  |
| 229.3  |
| 82.9   |
| 0.0    |