

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: P939979

Luminaire Tested: **GLAN-SB2D-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17490 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
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



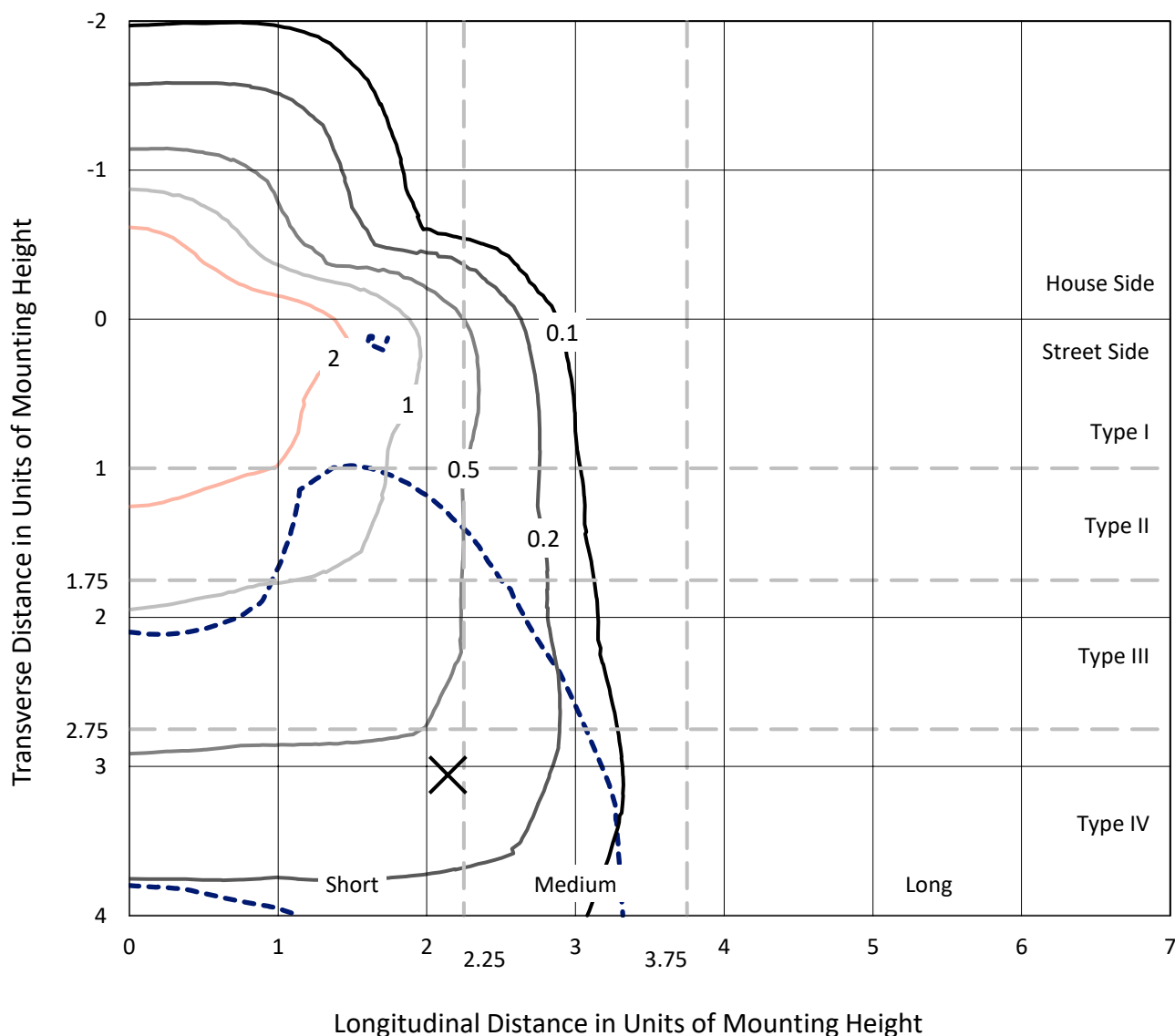
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



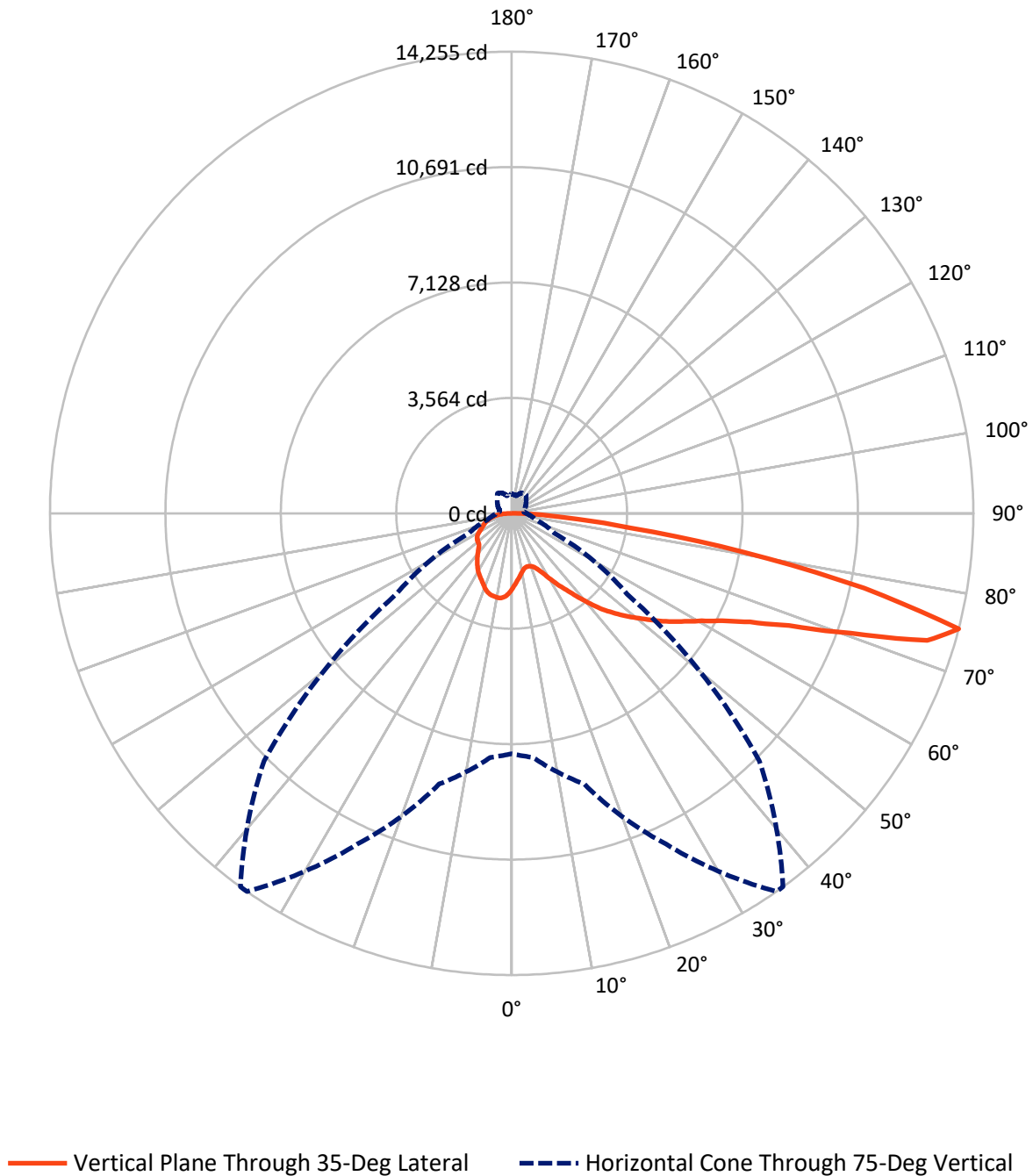
Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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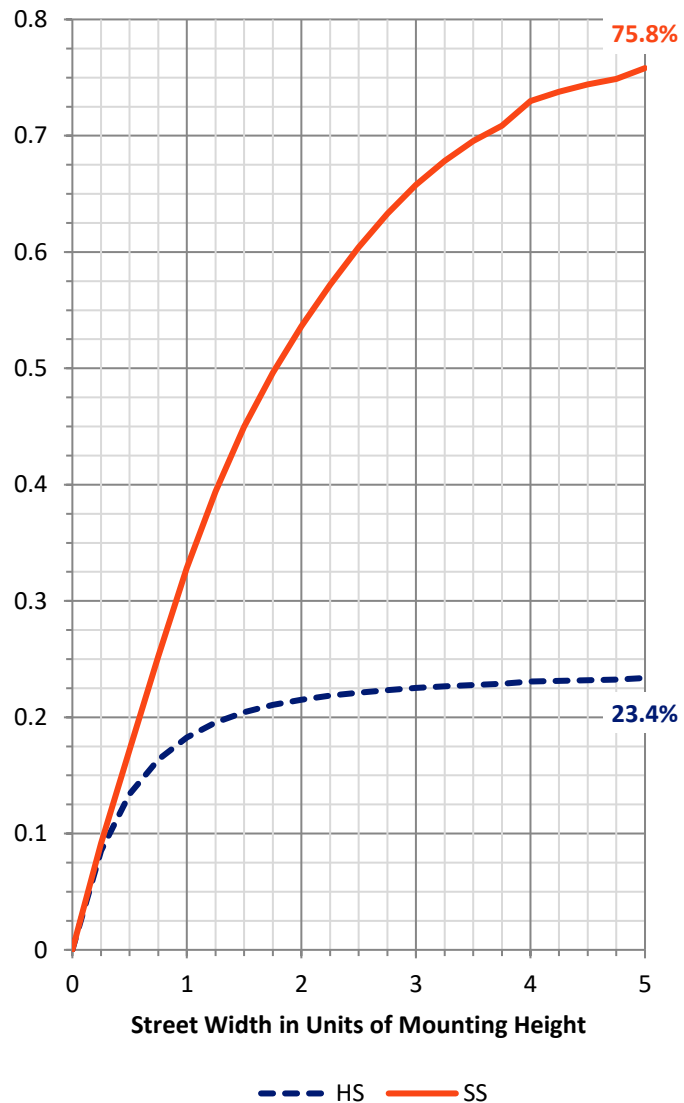
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4162.2   | 0.0    | 4162.2  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 13327.8  | 0.0    | 13327.8 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 17490.0  | 0.0    | 17490.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 220.7   | 1.3       |
| 10°-20°   | 636.5   | 3.6       |
| 20°-30°   | 1068.9  | 6.1       |
| 30°-40°   | 1661.1  | 9.5       |
| 40°-50°   | 2465.6  | 14.1      |
| 50°-60°   | 3403.9  | 19.5      |
| 60°-70°   | 4129.7  | 23.6      |
| 70°-80°   | 3412.9  | 19.5      |
| 80°-90°   | 490.9   | 2.8       |
| 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°    | 17490.0 | 100.0     |
| 0°-180°   | 17490.0 | 100.0     |

**Coefficient of Utilization**



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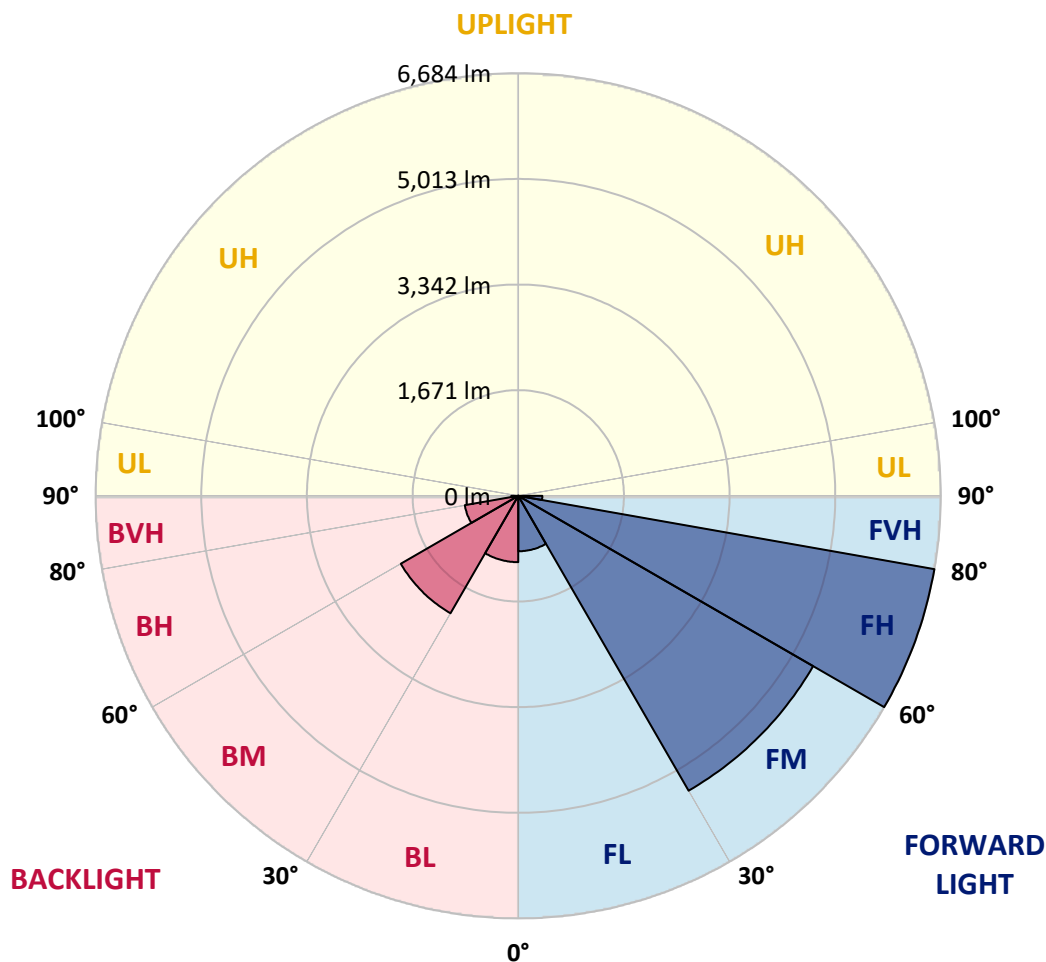
CATALOG NUMBER: GLAN-SB2D-827-U-T4FT

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 877.1  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 5386.0 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 6684.4 | 38.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 380.3  | 2.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1048.9 | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2144.6 | 12.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 858.1  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 110.5  | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Short



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CATALOG NUMBER: GLAN-SB2D-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 36°     | 45°     | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2330.7 | 2330.7 | 2330.7 | 2330.7  | 2330.7  | 2330.7  | 2330.7  | 2330.7 | 2330.7 | 2330.7 |
| 2.5°  | 2149.1 | 2162.4 | 2168.0 | 2165.2  | 2179.4  | 2177.5  | 2197.3  | 2221.9 | 2256.0 | 2289.1 |
| 5°    | 1983.7 | 1997.8 | 2010.1 | 2021.5  | 2048.9  | 2057.4  | 2088.6  | 2135.9 | 2198.3 | 2261.6 |
| 7.5°  | 1829.5 | 1841.8 | 1860.7 | 1881.5  | 1927.9  | 1936.4  | 1988.4  | 2062.1 | 2149.1 | 2241.8 |
| 10°   | 1703.8 | 1716.1 | 1735.9 | 1759.6  | 1817.3  | 1827.7  | 1893.8  | 1992.2 | 2105.6 | 2222.9 |
| 12.5° | 1649.9 | 1653.7 | 1665.0 | 1688.7  | 1738.8  | 1745.4  | 1818.2  | 1930.7 | 2063.1 | 2208.7 |
| 15°   | 1647.1 | 1654.6 | 1655.6 | 1667.9  | 1709.5  | 1712.3  | 1779.4  | 1891.0 | 2036.6 | 2205.9 |
| 17.5° | 1675.4 | 1681.1 | 1672.6 | 1680.2  | 1715.1  | 1719.9  | 1772.8  | 1872.1 | 2028.1 | 2218.1 |
| 20°   | 1751.1 | 1755.8 | 1730.3 | 1719.9  | 1745.4  | 1749.2  | 1801.2  | 1884.4 | 2036.6 | 2243.7 |
| 22.5° | 1911.8 | 1914.6 | 1852.2 | 1809.7  | 1811.6  | 1813.5  | 1858.9  | 1934.5 | 2069.7 | 2290.0 |
| 25°   | 2162.4 | 2160.5 | 2061.2 | 1978.9  | 1931.7  | 1921.3  | 1951.5  | 2015.8 | 2125.5 | 2351.5 |
| 27.5° | 2455.5 | 2441.3 | 2342.0 | 2219.1  | 2116.0  | 2100.9  | 2094.3  | 2121.7 | 2204.9 | 2432.8 |
| 30°   | 2786.4 | 2773.2 | 2666.3 | 2505.6  | 2362.8  | 2338.2  | 2275.8  | 2261.6 | 2323.1 | 2543.4 |
| 32.5° | 3149.5 | 3141.0 | 3013.3 | 2818.5  | 2627.5  | 2599.2  | 2494.2  | 2456.4 | 2504.6 | 2710.8 |
| 35°   | 3453.9 | 3446.4 | 3340.5 | 3140.0  | 2906.5  | 2871.5  | 2764.6  | 2722.1 | 2746.7 | 2925.4 |
| 37.5° | 3729.1 | 3725.3 | 3634.5 | 3476.6  | 3235.5  | 3193.0  | 3072.9  | 3058.7 | 3054.0 | 3208.1 |
| 40°   | 3984.3 | 3974.9 | 3880.3 | 3797.1  | 3618.4  | 3579.7  | 3473.8  | 3461.5 | 3425.6 | 3556.0 |
| 42.5° | 4267.0 | 4242.5 | 4105.4 | 4066.6  | 4018.4  | 3986.2  | 3922.9  | 3924.8 | 3845.4 | 3948.4 |
| 45°   | 4497.7 | 4483.6 | 4342.7 | 4320.0  | 4372.0  | 4358.8  | 4413.6  | 4427.8 | 4273.7 | 4359.7 |
| 47.5° | 4745.5 | 4732.2 | 4613.1 | 4597.0  | 4737.9  | 4741.7  | 4935.5  | 4940.2 | 4691.6 | 4787.1 |
| 50°   | 5050.9 | 5032.0 | 4913.8 | 4933.6  | 5091.5  | 5105.7  | 5460.3  | 5428.1 | 5076.4 | 5221.1 |
| 52.5° | 5252.3 | 5263.6 | 5238.1 | 5270.2  | 5485.8  | 5499.0  | 5976.5  | 5894.3 | 5457.4 | 5649.4 |
| 55°   | 5400.7 | 5423.4 | 5502.8 | 5576.6  | 5901.8  | 5915.1  | 6463.4  | 6337.7 | 5773.2 | 6046.5 |
| 57.5° | 5591.7 | 5559.5 | 5708.0 | 5851.7  | 6297.0  | 6332.0  | 6937.1  | 6765.1 | 6053.1 | 6388.8 |
| 60°   | 5865.9 | 5843.2 | 5958.5 | 6171.3  | 6739.5  | 6795.3  | 7438.3  | 7149.9 | 6258.3 | 6660.1 |
| 62.5° | 6421.8 | 6365.1 | 6383.1 | 6571.2  | 7297.4  | 7371.1  | 8003.7  | 7485.5 | 6360.4 | 6766.0 |
| 65°   | 7252.9 | 7155.6 | 7064.8 | 7195.3  | 8083.1  | 8155.9  | 8641.9  | 7749.3 | 6322.6 | 6560.8 |
| 67.5° | 8299.6 | 8203.2 | 8091.6 | 8214.5  | 9240.4  | 9298.1  | 9429.5  | 7897.8 | 6024.7 | 5770.4 |
| 70°   | 9162.9 | 9126.9 | 9260.2 | 9766.1  | 11088.8 | 11090.7 | 10439.3 | 7774.9 | 5208.8 | 4091.2 |
| 72.5° | 9048.4 | 9026.7 | 9729.2 | 11293.1 | 13418.6 | 13368.4 | 11395.2 | 6844.5 | 3508.8 | 1845.6 |
| 75°   | 7423.1 | 7564.0 | 8652.3 | 11265.6 | 14255.3 | 14248.7 | 10809.9 | 4351.2 | 1451.3 | 764.9  |
| 77.5° | 3980.6 | 4203.7 | 5617.2 | 8317.6  | 11128.6 | 11295.9 | 7599.9  | 1522.3 | 623.1  | 489.8  |
| 80°   | 1298.2 | 1492.9 | 2238.9 | 4234.9  | 7231.2  | 7200.0  | 3257.3  | 597.6  | 426.4  | 347.0  |
| 82.5° | 551.2  | 573.9  | 1000.3 | 1999.7  | 3711.1  | 3653.4  | 1037.2  | 343.2  | 299.7  | 237.3  |
| 85°   | 215.6  | 241.1  | 441.5  | 924.7   | 1607.4  | 1572.4  | 374.4   | 170.2  | 191.9  | 155.1  |
| 87.5° | 70.9   | 86.0   | 157.9  | 316.7   | 500.2   | 482.2   | 91.7    | 58.6   | 83.2   | 70.9   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2330.7 | 0°    | 2330.7 | 2330.7 | 2330.7 | 2330.7 | 2330.7 | 2330.7 | 2330.7 | 2330.7 | 2330.7 | 2330.7 |
| 2337.3 | 2.5°  | 2350.5 | 2365.6 | 2383.6 | 2410.1 | 2432.8 | 2451.7 | 2471.5 | 2483.8 | 2488.6 | 2502.7 |
| 2341.1 | 5°    | 2367.5 | 2400.6 | 2445.1 | 2488.6 | 2531.1 | 2556.6 | 2579.3 | 2590.7 | 2601.1 | 2608.6 |
| 2351.5 | 7.5°  | 2395.9 | 2438.4 | 2508.4 | 2565.1 | 2601.1 | 2621.9 | 2637.0 | 2633.2 | 2637.0 | 2638.9 |
| 2362.8 | 10°   | 2420.5 | 2480.1 | 2563.3 | 2617.1 | 2644.6 | 2645.5 | 2641.7 | 2628.5 | 2621.9 | 2622.8 |
| 2379.8 | 12.5° | 2449.8 | 2516.0 | 2605.8 | 2651.2 | 2658.7 | 2637.9 | 2621.9 | 2599.2 | 2590.7 | 2586.9 |
| 2405.4 | 15°   | 2489.5 | 2565.1 | 2652.1 | 2669.2 | 2650.2 | 2623.8 | 2596.3 | 2559.5 | 2540.6 | 2525.4 |
| 2448.8 | 17.5° | 2537.7 | 2620.9 | 2688.1 | 2675.8 | 2635.1 | 2591.6 | 2547.2 | 2491.4 | 2452.6 | 2436.6 |
| 2508.4 | 20°   | 2604.9 | 2679.6 | 2715.5 | 2661.6 | 2600.1 | 2533.9 | 2458.3 | 2390.2 | 2354.3 | 2338.2 |
| 2584.1 | 22.5° | 2686.2 | 2758.0 | 2742.0 | 2637.0 | 2550.0 | 2444.1 | 2349.6 | 2299.5 | 2281.5 | 2270.1 |
| 2681.4 | 25°   | 2783.6 | 2845.0 | 2760.9 | 2601.1 | 2467.8 | 2325.0 | 2252.2 | 2236.1 | 2227.6 | 2219.1 |
| 2800.6 | 27.5° | 2910.3 | 2943.3 | 2775.0 | 2548.1 | 2339.2 | 2198.3 | 2171.8 | 2174.7 | 2171.8 | 2157.6 |
| 2966.0 | 30°   | 3077.6 | 3071.0 | 2788.3 | 2462.1 | 2191.7 | 2083.9 | 2085.8 | 2098.1 | 2100.0 | 2090.5 |
| 3196.7 | 32.5° | 3297.9 | 3230.8 | 2794.9 | 2350.5 | 2050.8 | 1983.7 | 1985.6 | 1998.8 | 2008.2 | 1992.2 |
| 3498.4 | 35°   | 3564.5 | 3417.0 | 2784.5 | 2210.6 | 1942.1 | 1888.2 | 1874.0 | 1877.8 | 1880.6 | 1865.5 |
| 3864.3 | 37.5° | 3875.6 | 3626.0 | 2738.2 | 2055.5 | 1852.2 | 1794.6 | 1764.3 | 1738.8 | 1723.6 | 1709.5 |
| 4278.4 | 40°   | 4216.9 | 3853.9 | 2653.1 | 1904.2 | 1752.0 | 1695.3 | 1649.9 | 1601.7 | 1550.6 | 1531.7 |
| 4717.1 | 42.5° | 4574.3 | 4088.3 | 2550.0 | 1759.6 | 1636.7 | 1590.3 | 1542.1 | 1472.1 | 1395.6 | 1356.8 |
| 5172.8 | 45°   | 4945.0 | 4328.5 | 2448.8 | 1616.8 | 1518.5 | 1498.6 | 1442.8 | 1358.7 | 1275.5 | 1226.3 |
| 5629.5 | 47.5° | 5308.0 | 4555.4 | 2300.4 | 1473.1 | 1407.9 | 1429.6 | 1386.1 | 1308.6 | 1215.9 | 1138.4 |
| 6082.4 | 50°   | 5655.0 | 4768.2 | 2057.4 | 1327.5 | 1318.0 | 1408.8 | 1367.2 | 1255.6 | 1149.7 | 1050.5 |
| 6526.8 | 52.5° | 5999.2 | 4940.2 | 1746.3 | 1195.1 | 1269.8 | 1403.1 | 1342.6 | 1219.7 | 1090.2 | 986.2  |
| 6944.7 | 55°   | 6291.4 | 5029.1 | 1446.6 | 1081.7 | 1199.8 | 1354.9 | 1313.3 | 1177.1 | 1006.0 | 895.4  |
| 7231.2 | 57.5° | 6457.8 | 4957.3 | 1197.0 | 970.1  | 1103.4 | 1275.5 | 1263.2 | 1086.4 | 905.8  | 820.7  |
| 7287.0 | 60°   | 6385.9 | 4666.0 | 992.8  | 872.7  | 1011.7 | 1189.4 | 1176.2 | 996.6  | 829.2  | 748.8  |
| 6988.2 | 62.5° | 5989.8 | 4111.0 | 831.1  | 787.6  | 928.5  | 1101.5 | 1089.2 | 927.5  | 770.6  | 693.1  |
| 6194.9 | 65°   | 5191.7 | 3344.2 | 705.3  | 716.7  | 844.3  | 995.6  | 1013.6 | 869.9  | 724.3  | 648.6  |
| 4792.7 | 67.5° | 3959.8 | 2422.4 | 607.0  | 655.2  | 762.1  | 891.6  | 943.6  | 828.3  | 685.5  | 613.6  |
| 2773.2 | 70°   | 2256.9 | 1375.7 | 523.8  | 595.7  | 689.3  | 795.2  | 889.7  | 795.2  | 643.9  | 584.3  |
| 1039.1 | 72.5° | 855.7  | 631.6  | 452.9  | 536.1  | 619.3  | 713.9  | 830.2  | 743.2  | 595.7  | 551.2  |
| 537.0  | 75°   | 456.7  | 384.8  | 381.0  | 466.1  | 538.9  | 634.4  | 755.5  | 692.1  | 559.7  | 582.4  |
| 371.6  | 77.5° | 311.1  | 272.3  | 318.6  | 399.0  | 451.0  | 546.5  | 676.0  | 614.6  | 485.0  | 483.2  |
| 257.2  | 80°   | 215.6  | 192.9  | 259.1  | 321.5  | 348.9  | 459.5  | 590.0  | 527.6  | 395.2  | 368.7  |
| 158.8  | 82.5° | 129.5  | 125.8  | 193.8  | 240.2  | 246.8  | 354.6  | 488.8  | 442.5  | 323.4  | 281.8  |
| 94.6   | 85°   | 70.9   | 74.7   | 123.9  | 140.9  | 143.7  | 247.7  | 382.9  | 342.3  | 248.7  | 209.0  |
| 34.0   | 87.5° | 19.9   | 25.5   | 45.4   | 55.8   | 69.0   | 128.6  | 227.9  | 203.3  | 124.8  | 87.0   |
| 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°   |
|--------|
| 2330.7 |
| 2501.8 |
| 2610.5 |
| 2641.7 |
| 2624.7 |
| 2585.0 |
| 2530.2 |
| 2437.5 |
| 2336.3 |
| 2272.0 |
| 2219.1 |
| 2160.5 |
| 2095.2 |
| 1999.7 |
| 1875.9 |
| 1718.9 |
| 1540.2 |
| 1361.5 |
| 1222.5 |
| 1129.9 |
| 1041.9 |
| 974.8  |
| 885.9  |
| 809.3  |
| 737.5  |
| 680.8  |
| 636.3  |
| 602.3  |
| 576.8  |
| 543.7  |
| 601.3  |
| 445.3  |
| 352.7  |
| 283.7  |
| 210.8  |
| 87.0   |
| 0.0    |