

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: P941062

Luminaire Tested: **GALN-SB4B-935-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-935-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

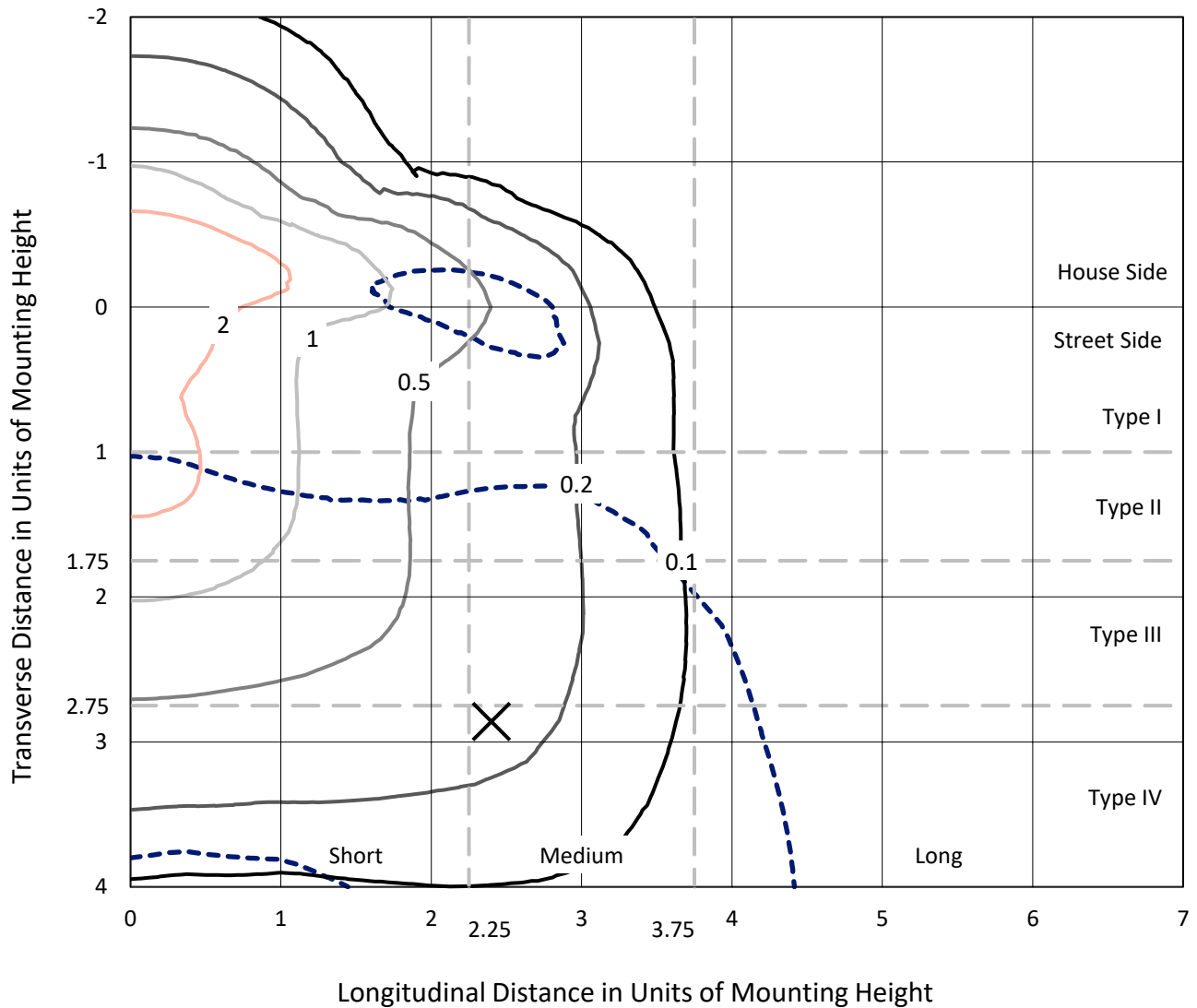
Lumens per Lamp: N/A  
Luminaire Lumens: 15562 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

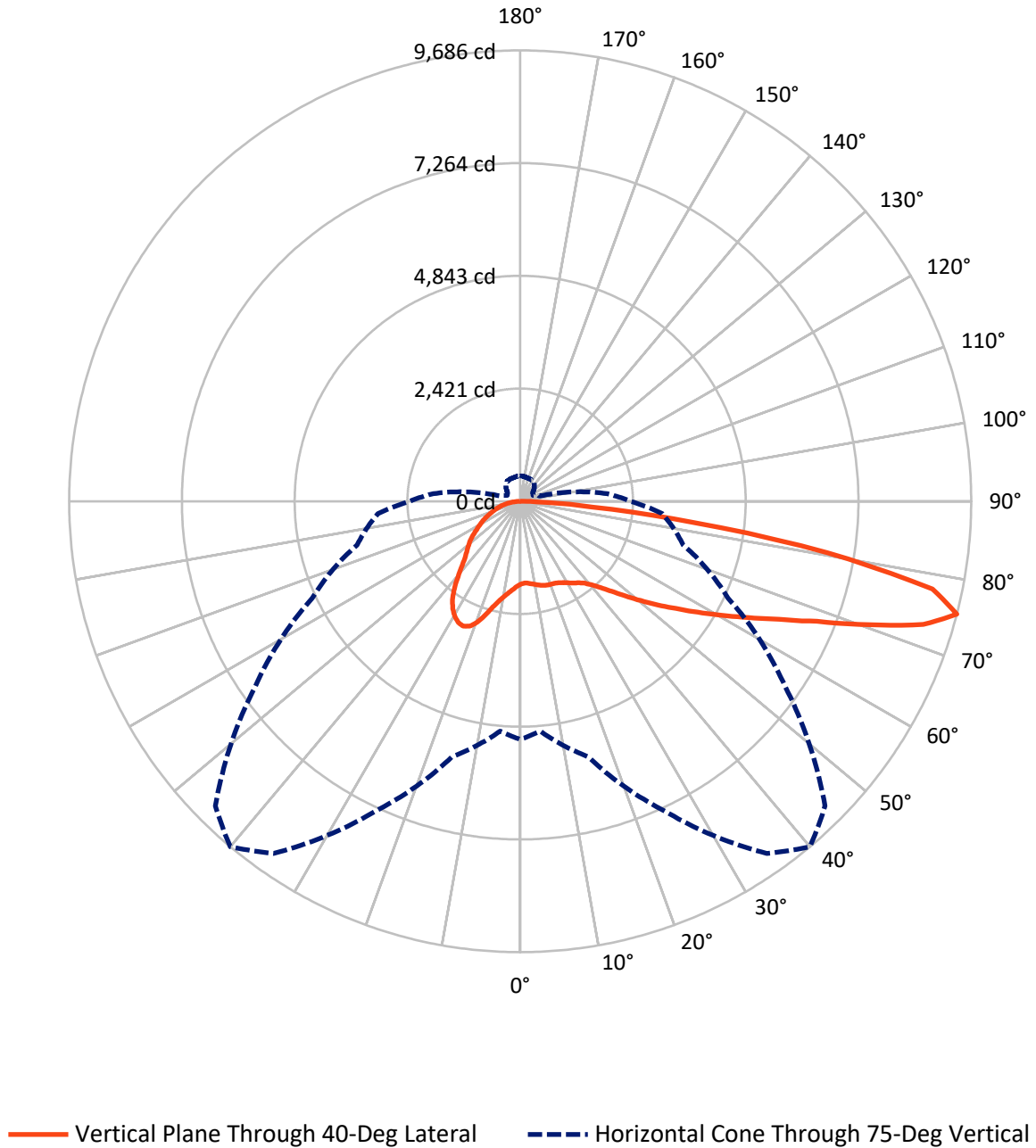
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - 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    | 4821.6   | 0.0    | 4821.6  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 10740.4  | 0.0    | 10740.4 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 15562.0  | 0.0    | 15562.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 177.6   | 1.1       |
| 10°-20°   | 596.4   | 3.8       |
| 20°-30°   | 1089.0  | 7.0       |
| 30°-40°   | 1544.4  | 9.9       |
| 40°-50°   | 2085.5  | 13.4      |
| 50°-60°   | 2805.5  | 18.0      |
| 60°-70°   | 3560.8  | 22.9      |
| 70°-80°   | 3231.7  | 20.8      |
| 80°-90°   | 471.1   | 3.0       |
| 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°    | 15562.0 | 100.0     |
| 0°-180°   | 15562.0 | 100.0     |

**Coefficient of Utilization**



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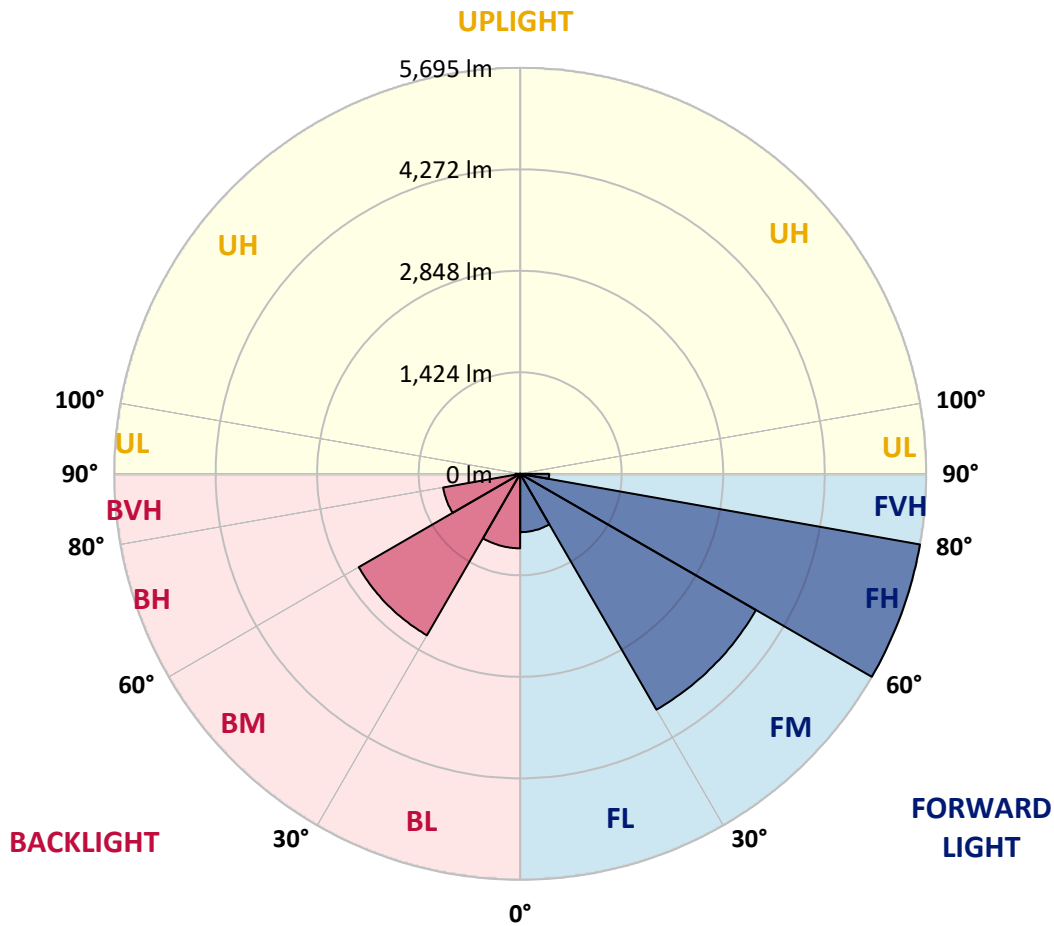
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 818.6  | 5.3       |                         |      |         |
| FM (30°-60°)   | 3820.1 | 24.5      |                         |      |         |
| FH (60°-80°)   | 5695.5 | 36.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 406.2  | 2.6       |                         |      | G3/500  |
| BL (0°-30°)    | 1044.4 | 6.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 2615.3 | 16.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 1097.1 | 7.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 64.9   | 0.4       |                         |      | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 |
| 2.5°  | 1752.3 | 1762.2 | 1759.7 | 1756.4 | 1756.4 | 1757.2 | 1756.4 | 1762.2 | 1768.0 | 1773.8 |
| 5°    | 1770.5 | 1780.4 | 1775.4 | 1771.3 | 1768.0 | 1767.2 | 1764.7 | 1763.9 | 1767.2 | 1774.6 |
| 7.5°  | 1805.9 | 1815.9 | 1808.4 | 1801.0 | 1794.4 | 1791.1 | 1787.8 | 1782.8 | 1780.4 | 1784.5 |
| 10°   | 1845.6 | 1855.5 | 1846.4 | 1833.2 | 1822.5 | 1818.3 | 1815.0 | 1810.1 | 1806.8 | 1809.2 |
| 12.5° | 1885.2 | 1895.1 | 1882.7 | 1864.6 | 1850.5 | 1848.0 | 1843.9 | 1842.3 | 1841.4 | 1840.6 |
| 15°   | 1922.3 | 1930.6 | 1914.9 | 1893.4 | 1878.6 | 1874.5 | 1870.3 | 1872.8 | 1876.9 | 1881.9 |
| 17.5° | 1951.2 | 1959.5 | 1936.4 | 1908.3 | 1894.3 | 1892.6 | 1890.1 | 1898.4 | 1909.9 | 1922.3 |
| 20°   | 1977.6 | 1985.9 | 1956.2 | 1918.2 | 1901.7 | 1901.7 | 1902.5 | 1919.9 | 1936.4 | 1954.5 |
| 22.5° | 2014.8 | 2021.4 | 1985.1 | 1933.1 | 1909.1 | 1910.8 | 1917.4 | 1934.7 | 1955.3 | 1980.1 |
| 25°   | 2070.1 | 2075.0 | 2030.5 | 1961.1 | 1933.9 | 1938.8 | 1944.6 | 1952.9 | 1972.7 | 2001.6 |
| 27.5° | 2159.2 | 2163.3 | 2104.7 | 2010.6 | 1969.4 | 1977.6 | 1985.9 | 1980.1 | 1989.2 | 2013.9 |
| 30°   | 2284.7 | 2287.1 | 2212.9 | 2088.2 | 2029.6 | 2033.8 | 2035.4 | 2011.5 | 1994.1 | 2013.9 |
| 32.5° | 2433.2 | 2432.4 | 2344.1 | 2182.3 | 2098.1 | 2094.0 | 2080.0 | 2032.9 | 1992.5 | 2009.8 |
| 35°   | 2663.5 | 2654.4 | 2540.5 | 2314.4 | 2175.7 | 2150.1 | 2117.1 | 2056.9 | 2000.7 | 2005.7 |
| 37.5° | 3044.9 | 3016.8 | 2859.1 | 2530.6 | 2291.3 | 2226.1 | 2177.4 | 2095.7 | 2018.9 | 2004.0 |
| 40°   | 3474.9 | 3439.4 | 3266.1 | 2827.0 | 2464.6 | 2359.8 | 2281.4 | 2151.0 | 2048.6 | 2011.5 |
| 42.5° | 3985.0 | 3934.6 | 3748.1 | 3176.1 | 2684.2 | 2532.3 | 2414.3 | 2221.1 | 2092.4 | 2035.4 |
| 45°   | 4611.4 | 4544.6 | 4280.5 | 3569.8 | 2960.7 | 2758.4 | 2600.8 | 2327.6 | 2159.2 | 2081.6 |
| 47.5° | 5244.5 | 5261.0 | 4885.5 | 4020.5 | 3292.5 | 3037.4 | 2834.4 | 2487.7 | 2256.6 | 2155.9 |
| 50°   | 5917.2 | 5928.8 | 5487.2 | 4519.8 | 3668.8 | 3352.7 | 3096.9 | 2666.8 | 2392.0 | 2261.6 |
| 52.5° | 6442.1 | 6443.8 | 6033.6 | 5042.3 | 4060.9 | 3699.4 | 3380.0 | 2871.5 | 2548.8 | 2401.9 |
| 55°   | 6770.7 | 6766.5 | 6416.6 | 5536.7 | 4511.6 | 4063.4 | 3693.6 | 3104.3 | 2740.3 | 2567.0 |
| 57.5° | 7009.2 | 6996.8 | 6680.7 | 5961.8 | 4991.9 | 4493.4 | 4048.5 | 3368.4 | 2966.4 | 2763.4 |
| 60°   | 7100.0 | 7092.6 | 6859.8 | 6329.1 | 5497.1 | 4968.8 | 4457.9 | 3663.9 | 3223.1 | 2995.3 |
| 62.5° | 7134.6 | 7148.7 | 7035.6 | 6684.8 | 6037.7 | 5495.4 | 4907.8 | 4017.2 | 3512.0 | 3257.8 |
| 65°   | 7256.8 | 7282.4 | 7259.3 | 7150.3 | 6648.5 | 6112.0 | 5504.5 | 4437.3 | 3827.3 | 3539.3 |
| 67.5° | 7498.6 | 7524.2 | 7534.1 | 7707.5 | 7394.6 | 6880.4 | 6249.0 | 4960.6 | 4196.3 | 3831.4 |
| 70°   | 7492.9 | 7485.4 | 7660.4 | 8150.7 | 8329.0 | 7944.4 | 7252.7 | 5604.4 | 4636.2 | 4074.1 |
| 72.5° | 6820.2 | 6760.7 | 7174.3 | 8145.7 | 9106.5 | 9055.3 | 8478.4 | 6434.7 | 5015.9 | 4103.8 |
| 75°   | 5116.6 | 4958.1 | 5688.6 | 7341.0 | 9236.1 | 9685.9 | 9257.5 | 6949.8 | 4925.9 | 3625.9 |
| 77.5° | 2188.1 | 2028.8 | 2889.7 | 5434.4 | 8266.3 | 9054.5 | 8542.8 | 6063.3 | 3932.1 | 2397.8 |
| 80°   | 572.8  | 572.0  | 873.3  | 2463.8 | 5621.7 | 6686.5 | 5866.0 | 3915.6 | 2246.7 | 856.8  |
| 82.5° | 236.9  | 231.1  | 321.1  | 958.3  | 2746.9 | 3752.2 | 3062.2 | 1746.5 | 811.4  | 231.9  |
| 85°   | 88.3   | 87.5   | 156.0  | 331.0  | 969.0  | 1547.6 | 1120.1 | 446.5  | 202.2  | 113.1  |
| 87.5° | 24.8   | 23.9   | 33.8   | 114.7  | 236.1  | 358.2  | 191.5  | 73.5   | 57.0   | 44.6   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1779.5 | 0°    | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 | 1779.5 |
| 1782.8 | 2.5°  | 1785.3 | 1789.4 | 1796.9 | 1802.6 | 1810.1 | 1818.3 | 1829.9 | 1837.3 | 1844.7 | 1849.7 |
| 1787.0 | 5°    | 1792.7 | 1801.8 | 1820.8 | 1839.8 | 1862.1 | 1882.7 | 1906.6 | 1924.0 | 1938.0 | 1942.1 |
| 1801.8 | 7.5°  | 1809.2 | 1824.1 | 1856.3 | 1888.5 | 1924.0 | 1957.8 | 1992.5 | 2022.2 | 2046.1 | 2055.2 |
| 1828.2 | 10°   | 1838.1 | 1857.9 | 1903.3 | 1948.7 | 1995.8 | 2047.8 | 2092.4 | 2135.3 | 2169.1 | 2183.1 |
| 1859.6 | 12.5° | 1874.5 | 1899.2 | 1958.6 | 2021.4 | 2086.6 | 2158.4 | 2216.2 | 2269.0 | 2311.1 | 2330.1 |
| 1903.3 | 15°   | 1921.5 | 1953.7 | 2029.6 | 2113.8 | 2209.6 | 2309.4 | 2382.9 | 2441.5 | 2488.5 | 2511.7 |
| 1948.7 | 17.5° | 1972.7 | 2015.6 | 2111.3 | 2238.5 | 2375.5 | 2506.7 | 2592.5 | 2635.5 | 2684.2 | 2706.4 |
| 1990.8 | 20°   | 2022.2 | 2075.0 | 2212.0 | 2396.9 | 2579.3 | 2718.8 | 2788.2 | 2799.7 | 2803.0 | 2805.5 |
| 2030.5 | 22.5° | 2073.4 | 2144.4 | 2338.3 | 2596.7 | 2792.3 | 2888.9 | 2898.8 | 2849.2 | 2779.9 | 2747.7 |
| 2069.2 | 25°   | 2129.5 | 2223.6 | 2503.4 | 2817.0 | 2975.5 | 2987.1 | 2911.1 | 2790.6 | 2659.4 | 2599.1 |
| 2100.6 | 27.5° | 2184.0 | 2315.2 | 2701.5 | 3027.5 | 3107.6 | 3006.1 | 2842.6 | 2671.8 | 2513.3 | 2449.8 |
| 2122.9 | 30°   | 2238.5 | 2420.0 | 2920.2 | 3211.6 | 3167.8 | 2959.0 | 2734.5 | 2543.8 | 2384.5 | 2317.7 |
| 2142.7 | 32.5° | 2293.8 | 2542.2 | 3172.0 | 3344.5 | 3157.1 | 2859.1 | 2600.0 | 2400.2 | 2259.9 | 2189.8 |
| 2160.0 | 35°   | 2356.5 | 2692.4 | 3410.5 | 3417.1 | 3085.3 | 2712.2 | 2422.5 | 2228.5 | 2106.4 | 2050.3 |
| 2180.7 | 37.5° | 2438.2 | 2883.1 | 3621.0 | 3435.3 | 2959.8 | 2496.8 | 2202.1 | 2025.5 | 1924.8 | 1899.2 |
| 2211.2 | 40°   | 2539.7 | 3112.5 | 3781.9 | 3406.4 | 2774.1 | 2235.1 | 1961.1 | 1820.0 | 1763.0 | 1768.8 |
| 2252.5 | 42.5° | 2671.8 | 3369.2 | 3895.0 | 3332.1 | 2515.8 | 1965.2 | 1749.8 | 1687.1 | 1714.3 | 1737.4 |
| 2314.4 | 45°   | 2843.5 | 3635.8 | 3965.2 | 3205.8 | 2223.6 | 1736.6 | 1625.2 | 1640.0 | 1660.7 | 1663.2 |
| 2414.3 | 47.5° | 3063.0 | 3905.7 | 4011.4 | 3015.1 | 1925.6 | 1575.7 | 1546.0 | 1549.3 | 1545.1 | 1527.8 |
| 2563.7 | 50°   | 3337.0 | 4168.2 | 4052.7 | 2762.6 | 1672.2 | 1475.0 | 1435.3 | 1423.8 | 1366.8 | 1310.7 |
| 2762.6 | 52.5° | 3649.0 | 4409.2 | 4070.0 | 2448.9 | 1475.0 | 1390.8 | 1326.4 | 1253.8 | 1147.3 | 1130.0 |
| 3012.7 | 55°   | 3995.7 | 4632.1 | 4025.4 | 2063.5 | 1309.1 | 1282.7 | 1185.3 | 1097.8 | 1086.2 | 1071.4 |
| 3342.0 | 57.5° | 4410.0 | 4872.3 | 3934.6 | 1633.4 | 1139.0 | 1156.4 | 1061.4 | 1071.4 | 1050.7 | 1027.6 |
| 3765.4 | 60°   | 4863.2 | 5120.7 | 3775.3 | 1241.4 | 963.2  | 998.7  | 1029.3 | 1028.4 | 1022.7 | 1003.7 |
| 4212.0 | 62.5° | 5270.9 | 5284.1 | 3461.7 | 950.8  | 808.9  | 876.6  | 959.9  | 959.1  | 954.1  | 943.4  |
| 4678.3 | 65°   | 5513.6 | 5259.4 | 2938.4 | 748.6  | 681.8  | 775.9  | 865.8  | 872.4  | 873.3  | 872.4  |
| 5029.1 | 67.5° | 5470.7 | 4969.7 | 2220.3 | 595.9  | 576.9  | 673.5  | 772.6  | 781.6  | 788.2  | 789.9  |
| 5073.7 | 70°   | 4985.3 | 4333.3 | 1447.7 | 475.4  | 483.7  | 583.5  | 684.2  | 693.3  | 699.1  | 705.7  |
| 4402.6 | 72.5° | 3885.9 | 3186.0 | 828.7  | 384.6  | 402.0  | 506.0  | 596.8  | 607.5  | 610.8  | 623.2  |
| 3063.8 | 75°   | 2368.0 | 1873.6 | 447.4  | 302.9  | 330.2  | 432.5  | 510.1  | 522.5  | 528.2  | 543.1  |
| 1504.7 | 77.5° | 1125.8 | 811.4  | 255.0  | 236.1  | 265.8  | 353.3  | 430.9  | 444.9  | 429.2  | 437.5  |
| 415.2  | 80°   | 380.5  | 301.3  | 161.0  | 179.9  | 203.0  | 275.7  | 345.0  | 359.0  | 326.0  | 324.4  |
| 137.8  | 82.5° | 132.9  | 122.2  | 102.3  | 119.7  | 131.2  | 197.3  | 260.8  | 279.0  | 242.7  | 241.8  |
| 61.9   | 85°   | 52.0   | 49.5   | 57.0   | 65.2   | 78.4   | 121.3  | 171.7  | 180.8  | 149.4  | 120.5  |
| 18.2   | 87.5° | 10.7   | 11.6   | 14.0   | 14.9   | 23.9   | 42.1   | 61.9   | 75.9   | 60.3   | 51.2   |
| 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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| <u>180°</u> |
|-------------|
| 1779.5      |
| 1846.4      |
| 1943.8      |
| 2056.0      |
| 2184.0      |
| 2330.1      |
| 2510.0      |
| 2705.6      |
| 2812.1      |
| 2756.8      |
| 2608.2      |
| 2457.2      |
| 2325.1      |
| 2198.8      |
| 2062.6      |
| 1917.4      |
| 1788.6      |
| 1758.9      |
| 1679.7      |
| 1541.0      |
| 1318.1      |
| 1135.7      |
| 1073.8      |
| 1023.5      |
| 997.1       |
| 939.3       |
| 872.4       |
| 791.5       |
| 709.0       |
| 628.1       |
| 544.8       |
| 430.9       |
| 321.1       |
| 230.3       |
| 118.9       |
| 47.0        |
| 0.0         |

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