

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: P942688

Luminaire Tested: **GALN-SB6D-760-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-760-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

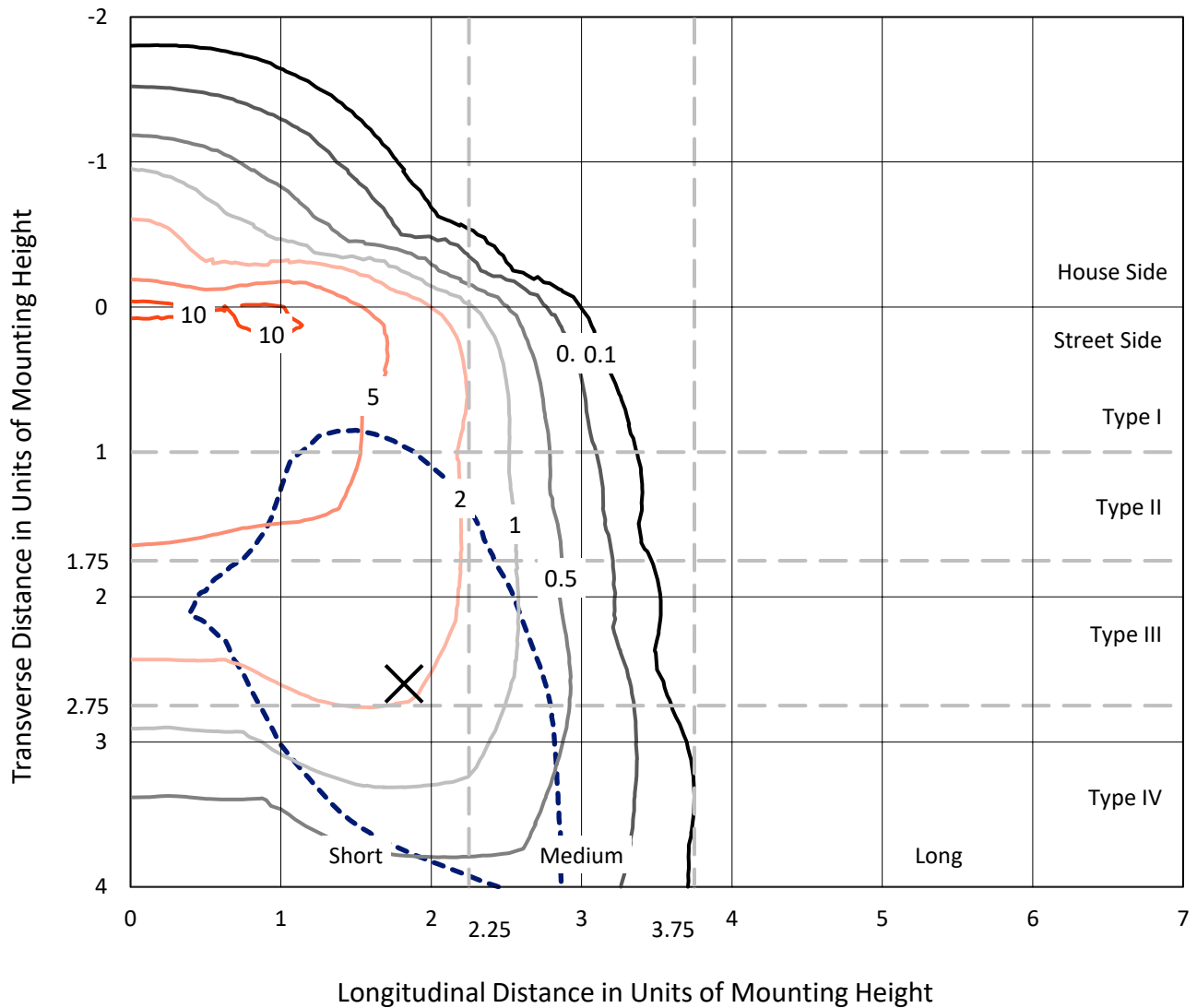
Lumens per Lamp: N/A  
Luminaire Lumens: 49430 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

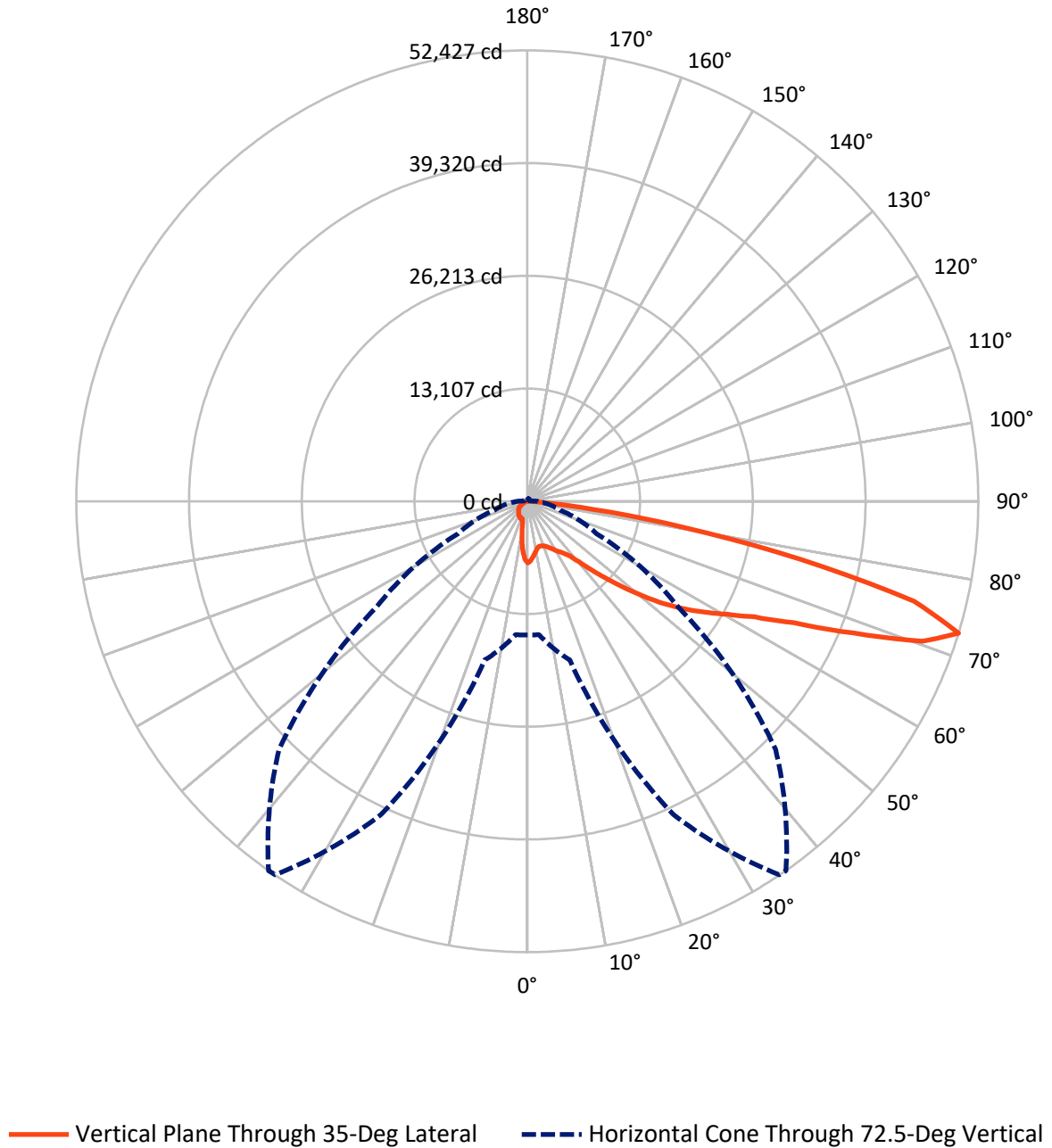
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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    | 5563.1   | 0.0    | 5563.1  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 43866.9  | 0.0    | 43866.9 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 49430.0  | 0.0    | 49430.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 588.7   | 1.2       |
| 10°-20°   | 1377.2  | 2.8       |
| 20°-30°   | 2237.2  | 4.5       |
| 30°-40°   | 3732.7  | 7.6       |
| 40°-50°   | 7062.4  | 14.3      |
| 50°-60°   | 11222.2 | 22.7      |
| 60°-70°   | 13882.6 | 28.1      |
| 70°-80°   | 8629.5  | 17.5      |
| 80°-90°   | 697.4   | 1.4       |
| 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°    | 49430.0 | 100.0     |
| 0°-180°   | 49430.0 | 100.0     |

**Coefficient of Utilization**



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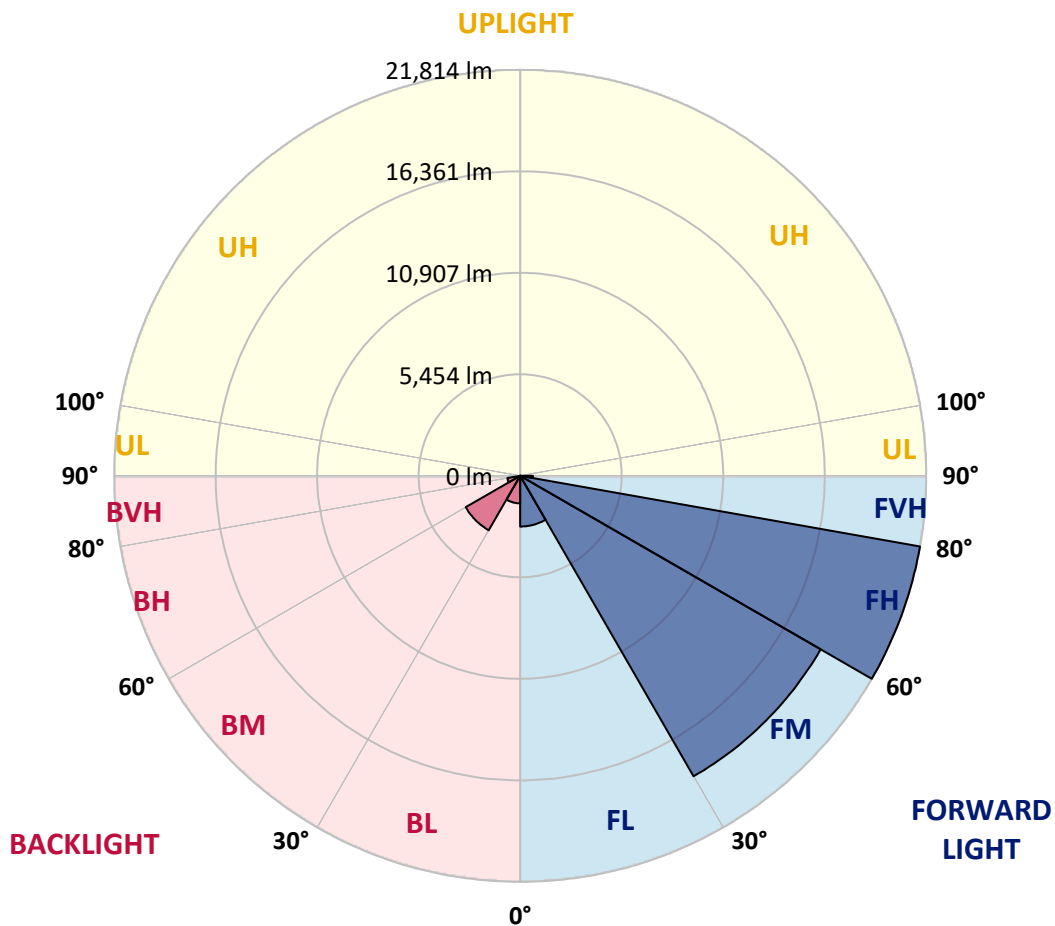
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2724.8  | 5.5       |                         |      |         |
| FM (30°-60°)   | 18640.1 | 37.7      |                         |      |         |
| FH (60°-80°)   | 21814.1 | 44.1      |                         |      | G5      |
| FVH (80°-90°)  | 687.9   | 1.4       |                         |      | G4/750  |
| BL (0°-30°)    | 1478.2  | 3.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 3377.3  | 6.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 698.1   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 9.5     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7164.1  | 7164.1  | 7164.1  | 7164.1  | 7164.1  | 7164.1  | 7164.1  | 7164.1  | 7164.1  | 7164.1  |
| 2.5°  | 6845.3  | 6903.3  | 6914.2  | 6932.3  | 6932.3  | 6954.0  | 6990.2  | 7040.9  | 7124.2  | 7167.7  |
| 5°    | 6309.3  | 6352.8  | 6407.1  | 6450.6  | 6533.9  | 6544.7  | 6686.0  | 6823.6  | 7015.6  | 7160.4  |
| 7.5°  | 5769.6  | 5820.3  | 5892.8  | 5997.8  | 6106.5  | 6139.1  | 6352.8  | 6584.6  | 6888.8  | 7160.4  |
| 10°   | 5389.3  | 5393.0  | 5458.2  | 5563.2  | 5737.0  | 5776.9  | 6037.7  | 6367.3  | 6747.5  | 7117.0  |
| 12.5° | 5175.7  | 5201.0  | 5230.0  | 5309.7  | 5476.3  | 5501.6  | 5780.5  | 6168.0  | 6606.3  | 7091.6  |
| 15°   | 5175.7  | 5193.8  | 5211.9  | 5251.7  | 5385.7  | 5407.5  | 5653.7  | 6041.3  | 6533.9  | 7102.5  |
| 17.5° | 5230.0  | 5259.0  | 5244.5  | 5291.6  | 5432.8  | 5447.3  | 5664.6  | 6005.1  | 6530.2  | 7171.3  |
| 20°   | 5360.4  | 5382.1  | 5353.1  | 5382.1  | 5523.4  | 5552.3  | 5776.9  | 6073.9  | 6591.8  | 7290.8  |
| 22.5° | 5566.8  | 5577.7  | 5508.9  | 5530.6  | 5675.5  | 5711.7  | 5972.5  | 6269.5  | 6740.3  | 7482.8  |
| 25°   | 5827.6  | 5849.3  | 5744.3  | 5769.6  | 5907.3  | 5950.7  | 6251.4  | 6562.8  | 6975.7  | 7747.2  |
| 27.5° | 6128.2  | 6139.1  | 6048.5  | 6044.9  | 6222.4  | 6283.9  | 6588.2  | 6925.0  | 7290.8  | 8080.4  |
| 30°   | 6472.3  | 6504.9  | 6418.0  | 6403.5  | 6628.0  | 6678.7  | 6979.3  | 7370.5  | 7754.4  | 8580.2  |
| 32.5° | 6743.9  | 6769.3  | 6718.6  | 6754.8  | 6983.0  | 7022.8  | 7453.8  | 8000.7  | 8482.4  | 9290.1  |
| 35°   | 7135.1  | 7149.6  | 7033.7  | 7098.9  | 7359.6  | 7461.1  | 8102.1  | 8884.5  | 9398.8  | 10181.1 |
| 37.5° | 8551.2  | 8551.2  | 8058.7  | 7736.3  | 7986.2  | 8076.8  | 8989.5  | 9996.4  | 10528.8 | 11376.3 |
| 40°   | 10510.7 | 10478.1 | 9757.3  | 9098.1  | 9065.5  | 9243.0  | 10253.5 | 11398.0 | 11988.4 | 12810.6 |
| 42.5° | 12600.5 | 12549.8 | 11568.3 | 10916.3 | 10807.7 | 10869.2 | 11713.1 | 13125.7 | 13726.9 | 14559.9 |
| 45°   | 14454.9 | 14440.4 | 13542.2 | 12665.7 | 12470.1 | 12665.7 | 13534.9 | 15146.7 | 15577.7 | 16454.2 |
| 47.5° | 16008.7 | 16008.7 | 15353.1 | 14780.9 | 14679.5 | 14795.4 | 16001.4 | 17388.6 | 17348.8 | 18471.6 |
| 50°   | 17797.9 | 17783.4 | 17160.4 | 16914.1 | 17019.2 | 17182.2 | 18841.0 | 19750.1 | 19181.4 | 20452.7 |
| 52.5° | 19051.1 | 19138.0 | 18924.3 | 18884.4 | 19420.5 | 19703.0 | 21724.0 | 22060.8 | 20822.1 | 22332.5 |
| 55°   | 20043.4 | 20144.9 | 20391.1 | 20670.0 | 21702.3 | 22071.7 | 24516.5 | 24252.1 | 22194.8 | 23962.3 |
| 57.5° | 21448.7 | 21303.9 | 21684.2 | 22234.7 | 23904.4 | 24349.9 | 27222.0 | 26320.1 | 23299.5 | 25284.3 |
| 60°   | 23154.6 | 23176.4 | 23241.6 | 23937.0 | 26102.8 | 26675.1 | 29887.7 | 28276.0 | 24009.4 | 26095.6 |
| 62.5° | 25204.6 | 25237.2 | 25371.2 | 26439.7 | 29054.7 | 29594.3 | 32727.2 | 29876.8 | 24335.4 | 25867.4 |
| 65°   | 25063.4 | 25201.0 | 26696.8 | 30351.3 | 33542.2 | 34074.6 | 36041.3 | 30999.6 | 23842.8 | 23781.2 |
| 67.5° | 22832.3 | 23056.8 | 25559.6 | 35023.5 | 40307.8 | 40901.8 | 40047.0 | 31220.5 | 21716.7 | 18493.3 |
| 70°   | 19905.8 | 19985.5 | 22995.3 | 39224.9 | 48141.9 | 48743.2 | 43632.7 | 28790.3 | 16479.5 | 10315.1 |
| 72.5° | 15545.1 | 15563.2 | 19094.5 | 40199.2 | 52394.0 | 52426.6 | 40818.5 | 21372.7 | 8862.7  | 3962.3  |
| 75°   | 11104.7 | 10996.0 | 12788.8 | 32600.5 | 46095.6 | 46465.0 | 30601.2 | 10025.3 | 3386.5  | 1872.5  |
| 77.5° | 5954.4  | 6073.9  | 7236.5  | 19333.6 | 31843.5 | 32473.7 | 16696.8 | 2890.3  | 1724.0  | 1274.9  |
| 80°   | 1839.9  | 1941.3  | 2966.3  | 8851.9  | 18036.9 | 18417.2 | 6189.8  | 1285.8  | 1202.5  | 909.1   |
| 82.5° | 579.5   | 601.2   | 1383.6  | 3719.7  | 7486.4  | 7660.3  | 1792.8  | 728.0   | 822.2   | 601.2   |
| 85°   | 166.6   | 170.2   | 615.7   | 1387.2  | 1850.8  | 1887.0  | 503.4   | 282.5   | 470.8   | 373.1   |
| 87.5° | 18.1    | 57.9    | 231.8   | 231.8   | 163.0   | 159.4   | 54.3    | 61.6    | 134.0   | 47.1    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7164.1  | 0°    | 7164.1  | 7164.1  | 7164.1 | 7164.1 | 7164.1 | 7164.1 | 7164.1 | 7164.1 | 7164.1 | 7164.1 |
| 7196.7  | 2.5°  | 7178.6  | 7182.2  | 7135.1 | 7055.4 | 6968.5 | 6896.0 | 6805.5 | 6733.1 | 6682.4 | 6667.9 |
| 7261.9  | 5°    | 7229.3  | 7203.9  | 7069.9 | 6827.2 | 6537.5 | 6287.6 | 6008.7 | 5787.8 | 5642.9 | 5581.3 |
| 7330.7  | 7.5°  | 7305.3  | 7232.9  | 6939.5 | 6461.4 | 5907.3 | 5414.7 | 4914.9 | 4527.3 | 4281.1 | 4157.9 |
| 7395.9  | 10°   | 7370.5  | 7225.6  | 6722.2 | 5932.6 | 5085.1 | 4339.0 | 3665.3 | 3198.1 | 2937.3 | 2814.2 |
| 7471.9  | 12.5° | 7432.1  | 7222.0  | 6439.7 | 5306.0 | 4157.9 | 3245.2 | 2618.6 | 2386.8 | 2314.4 | 2289.0 |
| 7595.1  | 15°   | 7548.0  | 7232.9  | 6084.7 | 4588.9 | 3234.3 | 2452.0 | 2223.8 | 2220.2 | 2234.7 | 2227.5 |
| 7783.4  | 17.5° | 7707.3  | 7243.7  | 5682.7 | 3828.3 | 2495.5 | 2162.3 | 2151.4 | 2184.0 | 2205.7 | 2194.9 |
| 8018.8  | 20°   | 7913.8  | 7287.2  | 5255.3 | 3075.0 | 2144.1 | 2089.8 | 2115.2 | 2144.1 | 2162.3 | 2144.1 |
| 8333.9  | 22.5° | 8203.5  | 7363.3  | 4788.1 | 2470.1 | 2031.9 | 2046.4 | 2068.1 | 2100.7 | 2118.8 | 2093.4 |
| 8736.0  | 25°   | 8558.5  | 7482.8  | 4328.1 | 2147.8 | 1977.5 | 1995.7 | 2028.2 | 2064.5 | 2086.2 | 2060.8 |
| 9243.0  | 27.5° | 9018.5  | 7674.7  | 3904.4 | 2075.3 | 1923.2 | 1934.1 | 1981.2 | 2035.5 | 2064.5 | 2031.9 |
| 9963.8  | 30°   | 9684.9  | 7989.9  | 3538.6 | 2107.9 | 1890.6 | 1865.3 | 1930.5 | 2006.5 | 2039.1 | 2010.1 |
| 10945.3 | 32.5° | 10568.6 | 8435.3  | 3314.0 | 2158.6 | 1876.1 | 1785.6 | 1847.2 | 1944.9 | 1999.3 | 1981.2 |
| 12227.4 | 35°   | 11727.6 | 9112.6  | 3227.1 | 2216.6 | 1865.3 | 1702.3 | 1745.7 | 1850.8 | 1944.9 | 1963.1 |
| 13842.8 | 37.5° | 13132.9 | 10054.3 | 3252.4 | 2241.9 | 1832.7 | 1633.5 | 1655.2 | 1745.7 | 1868.9 | 1926.8 |
| 15661.0 | 40°   | 14730.2 | 11151.7 | 3397.3 | 2216.6 | 1796.4 | 1575.5 | 1579.1 | 1648.0 | 1756.6 | 1843.5 |
| 17616.8 | 42.5° | 16378.1 | 12433.9 | 3665.3 | 2122.4 | 1763.9 | 1524.8 | 1513.9 | 1561.0 | 1633.5 | 1695.0 |
| 19569.0 | 45°   | 17946.4 | 13752.3 | 3929.7 | 1992.0 | 1724.0 | 1474.1 | 1448.7 | 1466.9 | 1481.3 | 1506.7 |
| 21470.5 | 47.5° | 19315.4 | 14679.5 | 3853.7 | 1872.5 | 1669.7 | 1416.2 | 1372.7 | 1365.4 | 1322.0 | 1318.4 |
| 23169.1 | 50°   | 20260.8 | 14882.3 | 3422.7 | 1753.0 | 1590.0 | 1351.0 | 1282.1 | 1238.7 | 1162.6 | 1126.4 |
| 24440.4 | 52.5° | 20561.4 | 14081.8 | 2796.1 | 1633.5 | 1459.6 | 1264.0 | 1166.2 | 1097.4 | 1003.3 | 970.7  |
| 25172.0 | 55°   | 20163.0 | 12513.6 | 2234.7 | 1488.6 | 1278.5 | 1148.1 | 1039.5 | 948.9  | 872.9  | 833.0  |
| 25251.7 | 57.5° | 19188.7 | 10517.9 | 1767.5 | 1318.4 | 1086.6 | 1017.7 | 909.1  | 818.5  | 753.3  | 713.5  |
| 24368.0 | 60°   | 17573.3 | 8352.0  | 1398.0 | 1115.5 | 927.2  | 876.5  | 764.2  | 706.3  | 648.3  | 601.2  |
| 22086.2 | 62.5° | 15121.3 | 5961.6  | 1097.4 | 883.7  | 775.1  | 717.1  | 651.9  | 608.5  | 539.7  | 474.5  |
| 17982.6 | 65°   | 11800.1 | 3647.2  | 847.5  | 648.3  | 623.0  | 594.0  | 554.1  | 514.3  | 431.0  | 365.8  |
| 11731.2 | 67.5° | 7442.9  | 1727.6  | 604.9  | 489.0  | 492.6  | 478.1  | 460.0  | 427.4  | 365.8  | 307.9  |
| 5255.3  | 70°   | 3277.8  | 836.7   | 398.4  | 373.1  | 365.8  | 365.8  | 380.3  | 369.4  | 311.5  | 257.2  |
| 1825.4  | 72.5° | 1115.5  | 449.1   | 297.0  | 282.5  | 264.4  | 260.8  | 318.7  | 307.9  | 249.9  | 199.2  |
| 909.1   | 75°   | 583.1   | 300.6   | 217.3  | 202.8  | 159.4  | 192.0  | 253.5  | 239.0  | 177.5  | 130.4  |
| 601.2   | 77.5° | 380.3   | 213.7   | 148.5  | 130.4  | 90.5   | 126.8  | 188.3  | 166.6  | 105.0  | 65.2   |
| 394.8   | 80°   | 239.0   | 141.3   | 86.9   | 61.6   | 43.5   | 68.8   | 101.4  | 72.4   | 39.8   | 14.5   |
| 231.8   | 82.5° | 126.8   | 72.4    | 32.6   | 21.7   | 18.1   | 21.7   | 25.4   | 18.1   | 7.2    | 0.0    |
| 119.5   | 85°   | 50.7    | 25.4    | 10.9   | 7.2    | 3.6    | 0.0    | 7.2    | 3.6    | 0.0    | 0.0    |
| 21.7    | 87.5° | 18.1    | 3.6     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°   |
| 7164.1 |
| 6693.2 |
| 5603.0 |
| 4176.0 |
| 2817.8 |
| 2281.8 |
| 2223.8 |
| 2191.2 |
| 2140.5 |
| 2089.8 |
| 2057.2 |
| 2031.9 |
| 2006.5 |
| 1981.2 |
| 1963.1 |
| 1941.3 |
| 1872.5 |
| 1720.4 |
| 1521.2 |
| 1314.7 |
| 1130.0 |
| 967.0  |
| 833.0  |
| 706.3  |
| 590.4  |
| 463.6  |
| 354.9  |
| 300.6  |
| 246.3  |
| 188.3  |
| 119.5  |
| 57.9   |
| 10.9   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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