

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: P950327

Luminaire Tested: **GALN-SB4D-760-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-760-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

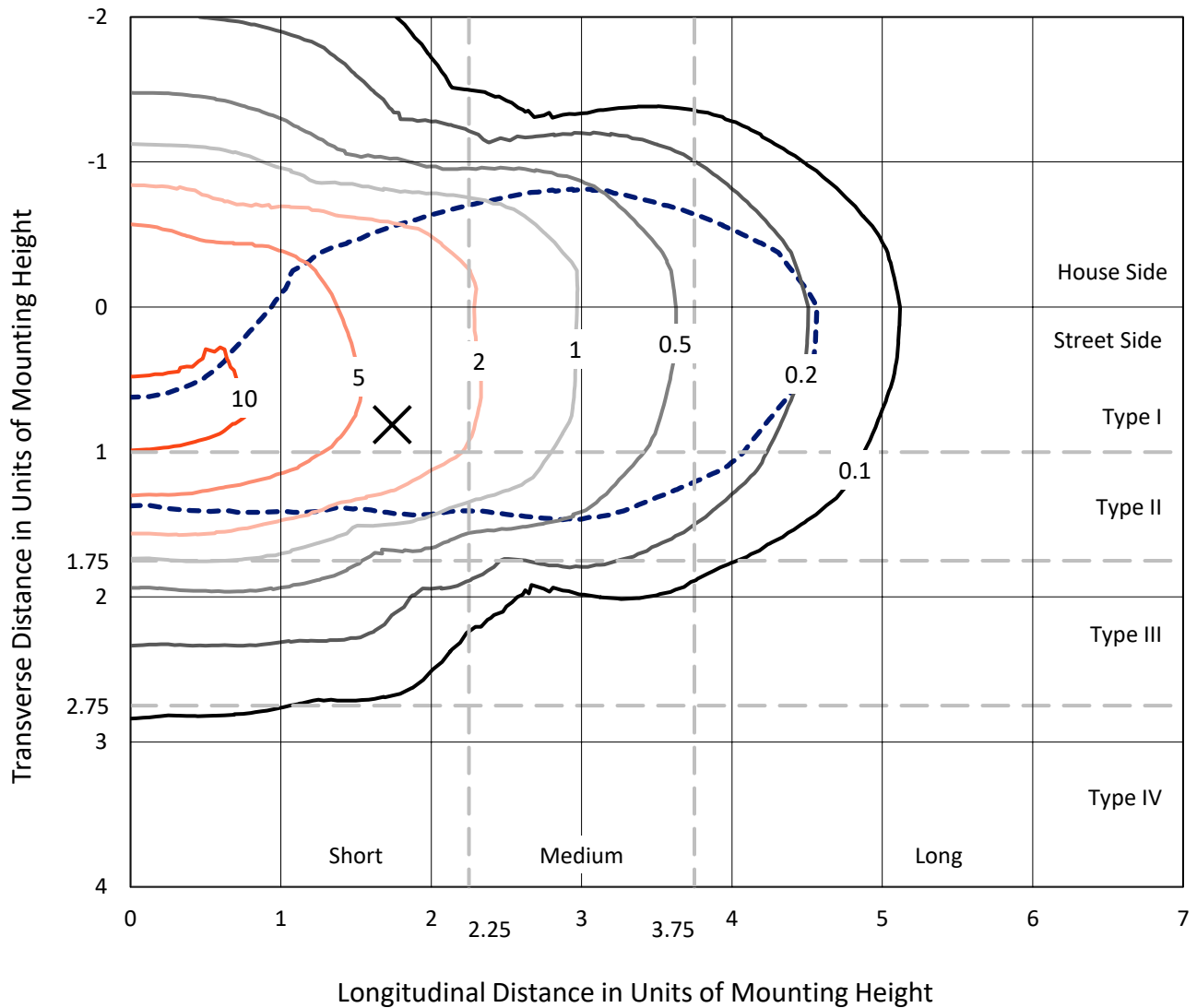
Lumens per Lamp: N/A  
Luminaire Lumens: 43726 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

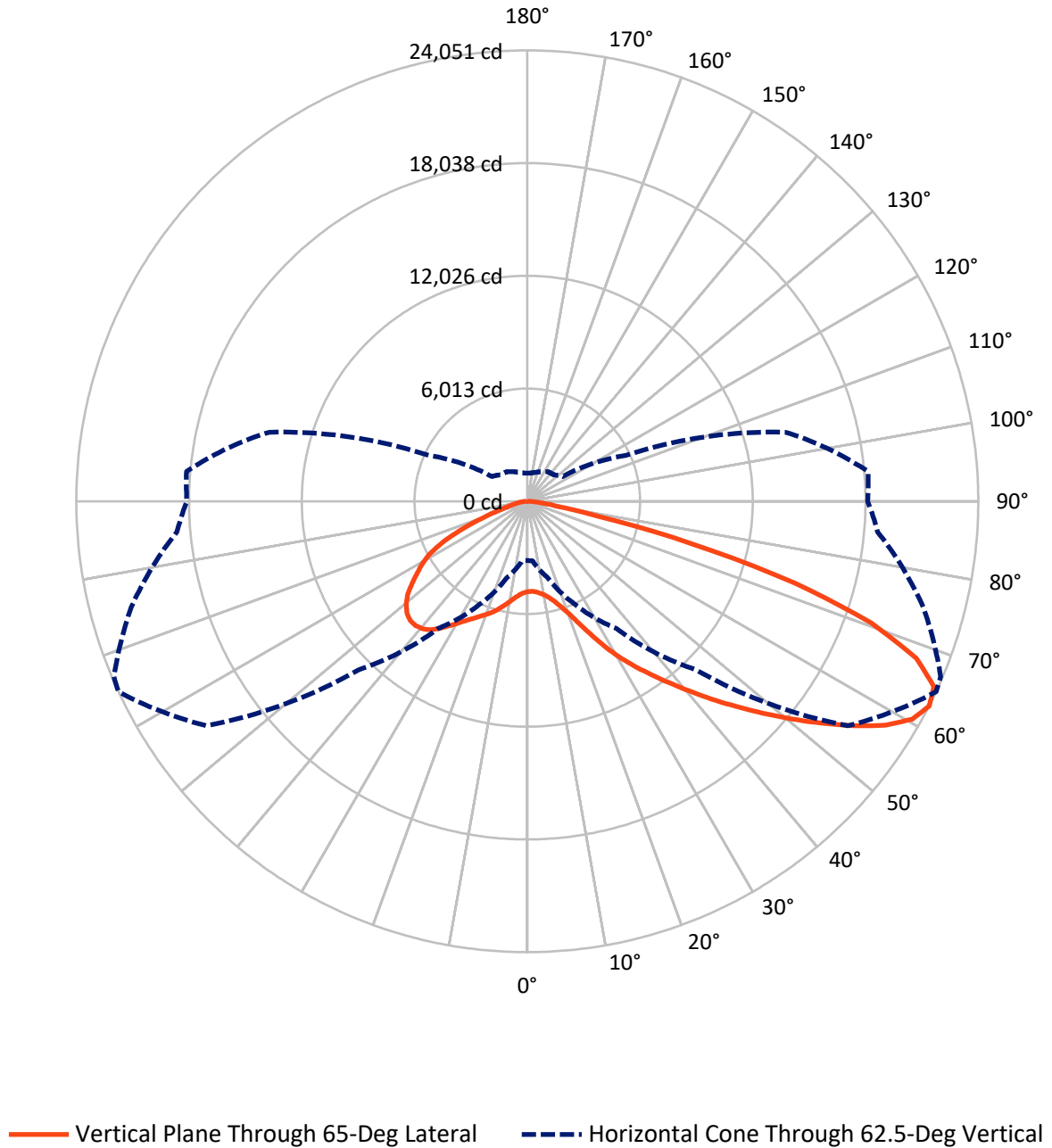
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - 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    | 13798.0  | 0.0    | 13798.0 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 29928.0  | 0.0    | 29928.0 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 43726.0  | 0.0    | 43726.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 480.4   | 1.1       |
| 10°-20°   | 1629.0  | 3.7       |
| 20°-30°   | 3303.1  | 7.6       |
| 30°-40°   | 5715.9  | 13.1      |
| 40°-50°   | 8649.9  | 19.8      |
| 50°-60°   | 10141.5 | 23.2      |
| 60°-70°   | 8502.4  | 19.4      |
| 70°-80°   | 4694.0  | 10.7      |
| 80°-90°   | 609.7   | 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°    | 43726.0 | 100.0     |
| 0°-180°   | 43726.0 | 100.0     |

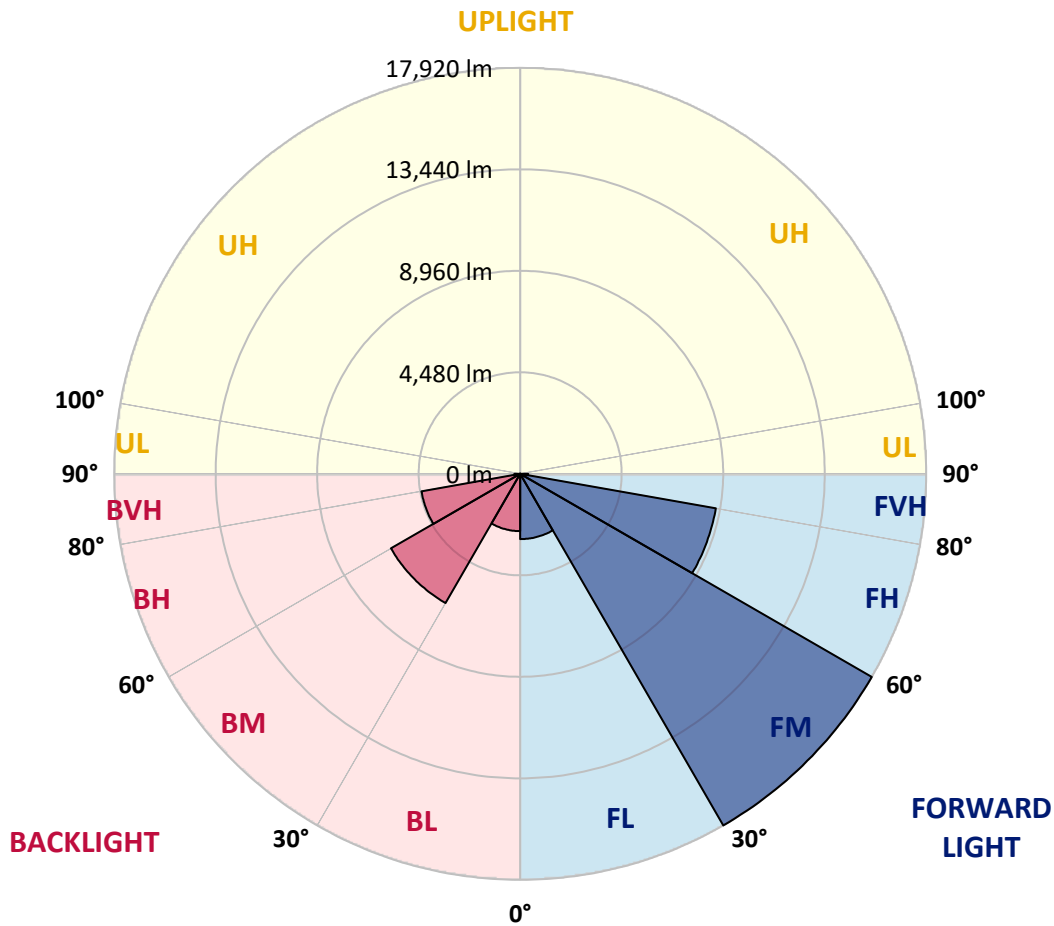


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2882.1  | 6.6       |                         |      |          |
| FM (30°-60°)   | 17920.3 | 41.0      |                         |      |          |
| FH (60°-80°)   | 8770.2  | 20.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 355.4   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 2530.4  | 5.8       | B4/5000                 |      |          |
| BM (30°-60°)   | 6587.0  | 15.1      | B4/8500                 |      |          |
| BH (60°-80°)   | 4426.3  | 10.1      | B4/5000                 |      | G4/5000  |
| BVH (80°-90°)  | 254.4   | 0.6       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4818.4  | 4818.4  | 4818.4  | 4818.4  | 4818.4  | 4818.4  | 4818.4  | 4818.4  | 4818.4  | 4818.4  |
| 2.5°  | 4786.7  | 4773.0  | 4784.4  | 4784.4  | 4788.9  | 4786.7  | 4802.5  | 4807.1  | 4813.9  | 4827.5  |
| 5°    | 4739.0  | 4736.7  | 4757.2  | 4775.3  | 4793.5  | 4809.3  | 4829.8  | 4859.2  | 4863.8  | 4879.7  |
| 7.5°  | 4723.1  | 4709.5  | 4741.3  | 4764.0  | 4807.1  | 4845.6  | 4900.1  | 4950.0  | 4970.4  | 4977.2  |
| 10°   | 4845.6  | 4823.0  | 4852.4  | 4866.1  | 4902.4  | 4940.9  | 5004.4  | 5083.8  | 5106.5  | 5133.7  |
| 12.5° | 5054.3  | 5029.4  | 5072.5  | 5092.9  | 5126.9  | 5161.0  | 5204.1  | 5281.2  | 5292.5  | 5342.5  |
| 15°   | 5340.2  | 5310.7  | 5337.9  | 5362.9  | 5419.6  | 5451.3  | 5494.4  | 5569.3  | 5569.3  | 5607.9  |
| 17.5° | 5728.1  | 5689.5  | 5710.0  | 5719.0  | 5755.3  | 5803.0  | 5875.6  | 5941.4  | 5975.4  | 5961.8  |
| 20°   | 6306.6  | 6258.9  | 6258.9  | 6213.6  | 6200.0  | 6238.5  | 6333.8  | 6424.6  | 6460.9  | 6390.5  |
| 22.5° | 7175.4  | 7107.4  | 7068.8  | 6914.6  | 6853.3  | 6857.8  | 6953.1  | 7064.3  | 7093.8  | 6969.0  |
| 25°   | 8280.2  | 8173.6  | 8121.4  | 7894.6  | 7756.2  | 7636.0  | 7710.8  | 7853.7  | 7894.6  | 7740.3  |
| 27.5° | 9385.0  | 9391.8  | 9341.9  | 9069.7  | 8840.6  | 8620.5  | 8582.0  | 8731.7  | 8774.8  | 8600.1  |
| 30°   | 10934.4 | 10773.4 | 10678.1 | 10351.4 | 10024.8 | 9716.2  | 9557.4  | 9618.7  | 9630.0  | 9421.3  |
| 32.5° | 12270.6 | 12229.8 | 12025.6 | 11739.8 | 11320.1 | 10836.9 | 10571.5 | 10473.9 | 10455.8 | 10158.6 |
| 35°   | 13792.8 | 13770.1 | 13554.6 | 13214.3 | 12760.6 | 12089.1 | 11610.5 | 11331.4 | 11308.8 | 10891.3 |
| 37.5° | 15340.0 | 15340.0 | 15129.0 | 14757.0 | 14287.4 | 13448.0 | 12719.8 | 12277.4 | 12204.8 | 11660.4 |
| 40°   | 16574.1 | 16499.2 | 16537.8 | 16381.3 | 15843.6 | 14952.1 | 13951.6 | 13309.6 | 13212.1 | 12558.7 |
| 42.5° | 17275.1 | 17250.1 | 17481.5 | 17656.2 | 17436.1 | 16723.8 | 15308.2 | 14428.0 | 14291.9 | 13547.8 |
| 45°   | 17431.6 | 17404.4 | 17817.2 | 18457.0 | 18765.5 | 18472.9 | 16782.8 | 15605.4 | 15439.8 | 14582.3 |
| 47.5° | 17070.9 | 17016.4 | 17622.2 | 18631.7 | 19620.8 | 20135.7 | 18379.9 | 16882.6 | 16642.1 | 15589.5 |
| 50°   | 15986.5 | 15934.3 | 16850.8 | 18191.6 | 19908.9 | 21265.5 | 20113.0 | 18236.9 | 17869.4 | 16669.4 |
| 52.5° | 13629.5 | 13654.4 | 15090.4 | 16932.5 | 19530.0 | 21968.7 | 21605.7 | 19663.9 | 19221.5 | 17774.1 |
| 55°   | 10616.8 | 10671.3 | 12436.2 | 14464.3 | 18014.6 | 21862.1 | 22624.3 | 21133.9 | 20693.8 | 18813.1 |
| 57.5° | 7601.9  | 7842.4  | 9496.2  | 11503.9 | 15104.1 | 20172.0 | 22846.6 | 22531.3 | 22104.8 | 19947.4 |
| 60°   | 4927.3  | 4970.4  | 6671.8  | 8695.4  | 11501.6 | 17168.4 | 22395.2 | 23590.7 | 23257.2 | 21104.4 |
| 62.5° | 3157.8  | 3187.3  | 4224.1  | 6082.0  | 8278.0  | 12701.7 | 20875.3 | 24051.2 | 23949.2 | 21868.9 |
| 65°   | 2320.7  | 2298.0  | 2838.0  | 4019.9  | 5576.1  | 7833.3  | 17923.9 | 23828.9 | 24030.8 | 22347.6 |
| 67.5° | 1937.3  | 1905.6  | 2171.0  | 2783.5  | 4108.4  | 4448.6  | 13262.0 | 22383.9 | 23123.4 | 22293.1 |
| 70°   | 1764.9  | 1737.7  | 1898.8  | 2066.7  | 3205.5  | 2978.6  | 6685.4  | 19459.7 | 20598.5 | 21673.8 |
| 72.5° | 1495.0  | 1447.3  | 1667.4  | 1835.3  | 2493.1  | 2284.4  | 2763.1  | 14947.5 | 16335.9 | 19688.8 |
| 75°   | 1159.2  | 1127.5  | 1315.8  | 1615.2  | 1873.8  | 1783.1  | 1746.8  | 9076.5  | 10591.9 | 15226.6 |
| 77.5° | 918.8   | 875.7   | 1048.1  | 1259.0  | 1685.5  | 1345.3  | 1272.7  | 3908.7  | 5410.5  | 9720.8  |
| 80°   | 691.9   | 653.3   | 796.3   | 995.9   | 1295.3  | 1014.0  | 823.5   | 1594.8  | 2039.4  | 4925.0  |
| 82.5° | 492.3   | 458.2   | 555.8   | 730.5   | 871.1   | 909.7   | 505.9   | 893.8   | 1005.0  | 1898.8  |
| 85°   | 315.3   | 294.9   | 372.0   | 458.2   | 553.5   | 585.3   | 308.5   | 467.3   | 512.7   | 782.7   |
| 87.5° | 172.4   | 140.7   | 199.6   | 213.2   | 256.3   | 233.7   | 147.5   | 170.1   | 183.8   | 283.6   |
| 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°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4818.4  | 0°    | 4818.4  | 4818.4  | 4818.4  | 4818.4 | 4818.4 | 4818.4 | 4818.4 | 4818.4 | 4818.4 | 4818.4 |
| 4827.5  | 2.5°  | 4836.6  | 4843.4  | 4866.1  | 4872.9 | 4888.7 | 4909.2 | 4922.8 | 4936.4 | 4936.4 | 4950.0 |
| 4900.1  | 5°    | 4902.4  | 4918.2  | 4965.9  | 4990.8 | 5031.7 | 5072.5 | 5097.4 | 5126.9 | 5145.1 | 5154.2 |
| 5015.8  | 7.5°  | 5029.4  | 5054.3  | 5122.4  | 5165.5 | 5235.8 | 5292.5 | 5331.1 | 5371.9 | 5381.0 | 5406.0 |
| 5176.8  | 10°   | 5201.8  | 5231.3  | 5308.4  | 5390.1 | 5474.0 | 5544.4 | 5580.7 | 5610.1 | 5621.5 | 5626.0 |
| 5383.3  | 12.5° | 5399.2  | 5442.3  | 5542.1  | 5641.9 | 5730.4 | 5791.6 | 5800.7 | 5793.9 | 5762.1 | 5734.9 |
| 5637.4  | 15°   | 5641.9  | 5680.5  | 5791.6  | 5900.5 | 5986.7 | 5998.1 | 5941.4 | 5905.1 | 5866.5 | 5859.7 |
| 5920.9  | 17.5° | 5932.3  | 5952.7  | 6054.8  | 6161.4 | 6168.2 | 6129.6 | 6045.7 | 6011.7 | 5975.4 | 5950.4 |
| 6290.7  | 20°   | 6270.3  | 6263.5  | 6336.1  | 6381.5 | 6333.8 | 6215.8 | 6088.8 | 6032.1 | 5995.8 | 5966.3 |
| 6744.4  | 22.5° | 6674.1  | 6621.9  | 6612.8  | 6601.5 | 6474.5 | 6227.2 | 6054.8 | 5982.2 | 5925.5 | 5884.6 |
| 7377.3  | 25°   | 7261.7  | 7062.0  | 6923.6  | 6846.5 | 6560.7 | 6165.9 | 5945.9 | 5784.8 | 5678.2 | 5607.9 |
| 8150.9  | 27.5° | 7996.7  | 7660.9  | 7311.6  | 7123.3 | 6560.7 | 6041.2 | 5682.7 | 5421.9 | 5247.2 | 5174.6 |
| 8899.6  | 30°   | 8697.6  | 8346.0  | 7831.1  | 7456.7 | 6544.8 | 5837.0 | 5258.5 | 4895.5 | 4691.4 | 4618.8 |
| 9539.3  | 32.5° | 9296.5  | 8913.2  | 8382.3  | 7822.0 | 6506.2 | 5505.8 | 4732.2 | 4330.7 | 4133.3 | 4047.1 |
| 10172.2 | 35°   | 9852.3  | 9444.0  | 8935.8  | 8223.5 | 6404.1 | 5020.3 | 4153.7 | 3847.5 | 3627.4 | 3489.0 |
| 10816.5 | 37.5° | 10421.8 | 9936.3  | 9459.9  | 8586.5 | 6220.4 | 4453.2 | 3709.1 | 3448.2 | 3189.6 | 3003.6 |
| 11501.6 | 40°   | 11041.1 | 10460.3 | 10020.2 | 8802.0 | 5918.7 | 3913.3 | 3364.3 | 3126.1 | 2851.6 | 2654.2 |
| 12291.0 | 42.5° | 11764.7 | 11088.7 | 10644.1 | 8913.2 | 5505.8 | 3529.9 | 3139.7 | 2906.0 | 2647.4 | 2486.3 |
| 13137.2 | 45°   | 12520.2 | 11780.6 | 11213.5 | 8910.9 | 5045.3 | 3350.7 | 3067.1 | 2835.7 | 2549.9 | 2382.0 |
| 14006.1 | 47.5° | 13311.9 | 12504.3 | 11705.8 | 8765.7 | 4646.0 | 3375.6 | 3026.3 | 2683.7 | 2368.4 | 2205.0 |
| 14884.0 | 50°   | 14105.9 | 13296.0 | 12182.2 | 8493.5 | 4475.9 | 3321.2 | 2874.3 | 2470.5 | 2098.4 | 1951.0 |
| 15707.5 | 52.5° | 14893.1 | 14137.6 | 12592.8 | 8105.6 | 4303.5 | 3119.3 | 2679.2 | 2193.7 | 1987.3 | 1885.2 |
| 16558.2 | 55°   | 15684.8 | 14970.2 | 13039.7 | 7540.7 | 3872.4 | 2883.3 | 2352.5 | 2089.3 | 1898.8 | 1805.8 |
| 17390.8 | 57.5° | 16478.8 | 15932.1 | 13463.9 | 6975.8 | 3330.2 | 2593.0 | 2173.3 | 1962.3 | 1810.3 | 1730.9 |
| 18087.2 | 60°   | 17304.6 | 17032.3 | 13901.7 | 6456.3 | 2794.9 | 2220.9 | 2041.7 | 1860.2 | 1706.0 | 1617.5 |
| 18756.4 | 62.5° | 18155.3 | 18243.7 | 14244.3 | 5787.1 | 2302.6 | 1994.1 | 1923.7 | 1737.7 | 1588.0 | 1504.1 |
| 19310.0 | 65°   | 19012.8 | 19412.0 | 14468.9 | 4859.2 | 1867.0 | 1778.5 | 1796.7 | 1603.9 | 1451.9 | 1379.3 |
| 19716.0 | 67.5° | 19659.3 | 20253.7 | 14405.3 | 3677.3 | 1531.3 | 1574.4 | 1637.9 | 1463.2 | 1320.3 | 1263.6 |
| 19650.2 | 70°   | 19731.9 | 20153.9 | 13779.2 | 2518.1 | 1281.7 | 1374.7 | 1461.0 | 1324.8 | 1177.4 | 1136.5 |
| 18724.7 | 72.5° | 18765.5 | 18792.7 | 12034.7 | 1644.7 | 1084.4 | 1206.9 | 1274.9 | 1184.2 | 1041.3 | 1000.4 |
| 16381.3 | 75°   | 16231.5 | 15541.9 | 8836.0  | 1084.4 | 907.4  | 1036.7 | 1100.3 | 1036.7 | 898.3  | 907.4  |
| 12257.0 | 77.5° | 12297.8 | 11007.0 | 5365.1  | 771.3  | 757.7  | 871.1  | 957.3  | 912.0  | 794.0  | 891.5  |
| 6163.7  | 80°   | 6336.1  | 5955.0  | 2393.3  | 576.2  | 598.9  | 696.4  | 787.2  | 728.2  | 628.4  | 598.9  |
| 1377.0  | 82.5° | 1451.9  | 1687.8  | 943.7   | 412.9  | 433.3  | 501.4  | 601.2  | 546.7  | 451.4  | 381.1  |
| 573.9   | 85°   | 508.2   | 555.8   | 417.4   | 258.6  | 254.1  | 313.1  | 408.3  | 365.2  | 306.3  | 245.0  |
| 242.7   | 87.5° | 161.1   | 211.0   | 156.5   | 104.4  | 108.9  | 140.7  | 188.3  | 172.4  | 142.9  | 93.0   |
| 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°  
4818.4  
4950.0  
5158.7  
5396.9  
5614.7  
5734.9  
5859.7  
5952.7  
5968.6  
5898.2  
5635.1  
5210.9  
4661.9  
4090.2  
3534.4  
3053.5  
2692.8  
2518.1  
2409.2  
2227.7  
1960.0  
1885.2  
1796.7  
1717.3  
1610.7  
*1501.8*  
1377.0  
1265.9  
1138.8  
998.2  
875.7  
784.9  
546.7  
376.6  
258.6  
97.5  
0.0

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