

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: P957320

Luminaire Tested: **GALN-SB9C-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957320  
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-SB9C-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

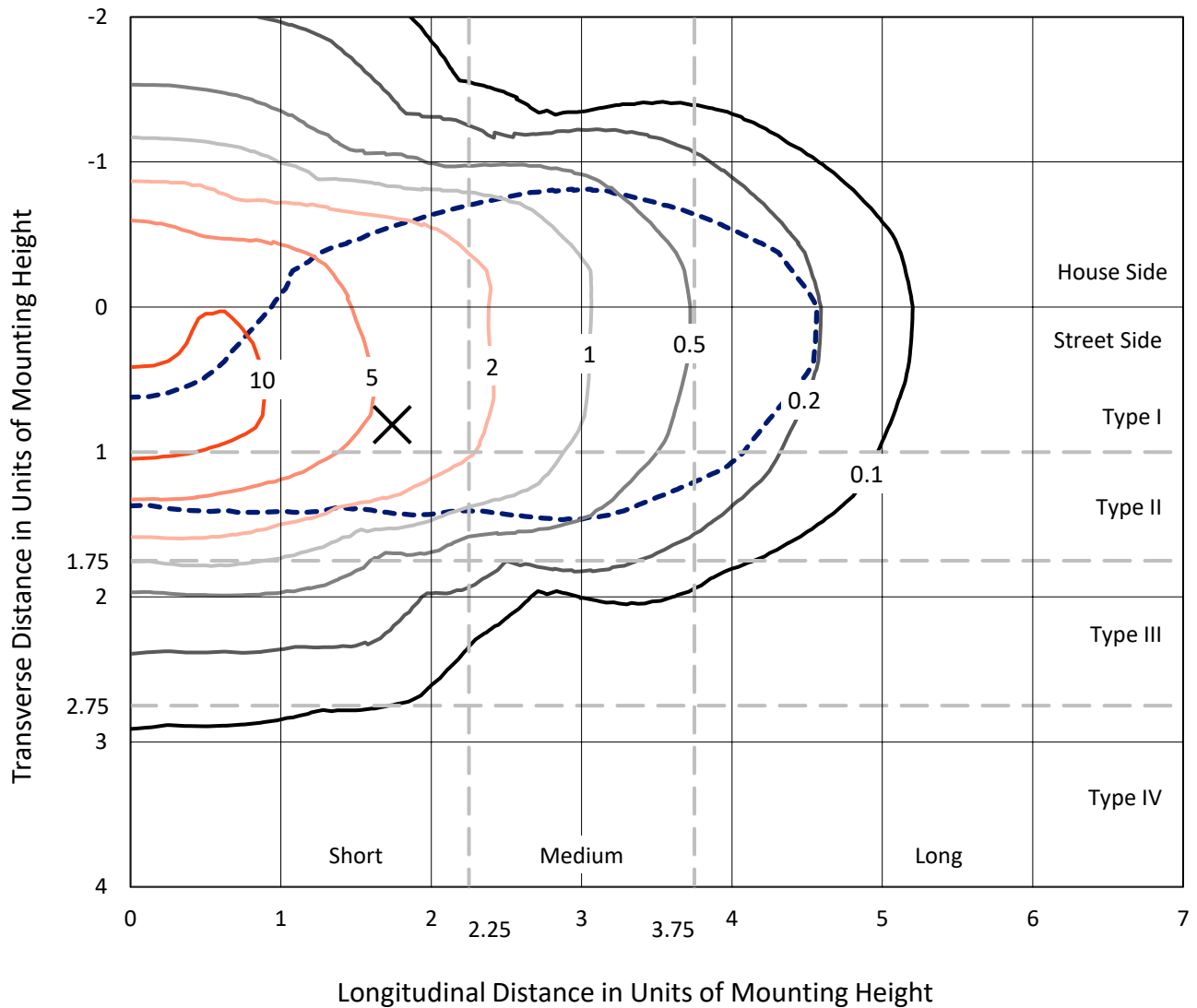
Lumens per Lamp: N/A  
Luminaire Lumens: 48089 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

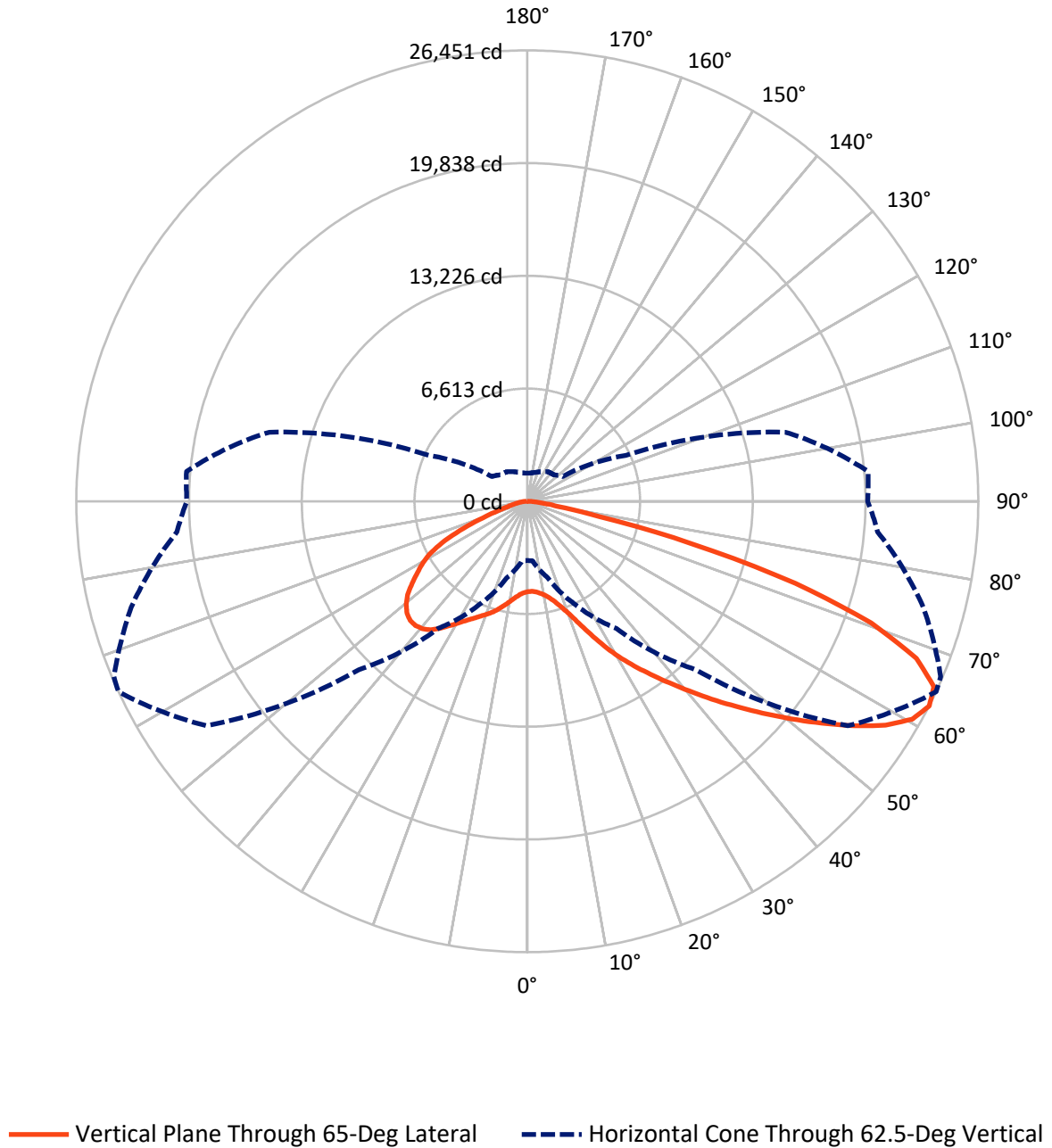
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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    | 15174.8  | 0.0    | 15174.8 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 32914.2  | 0.0    | 32914.2 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 48089.0  | 0.0    | 48089.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 528.3   | 1.1       |
| 10°-20°   | 1791.6  | 3.7       |
| 20°-30°   | 3632.7  | 7.6       |
| 30°-40°   | 6286.2  | 13.1      |
| 40°-50°   | 9513.0  | 19.8      |
| 50°-60°   | 11153.4 | 23.2      |
| 60°-70°   | 9350.8  | 19.4      |
| 70°-80°   | 5162.4  | 10.7      |
| 80°-90°   | 670.6   | 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°    | 48089.0 | 100.0     |
| 0°-180°   | 48089.0 | 100.0     |



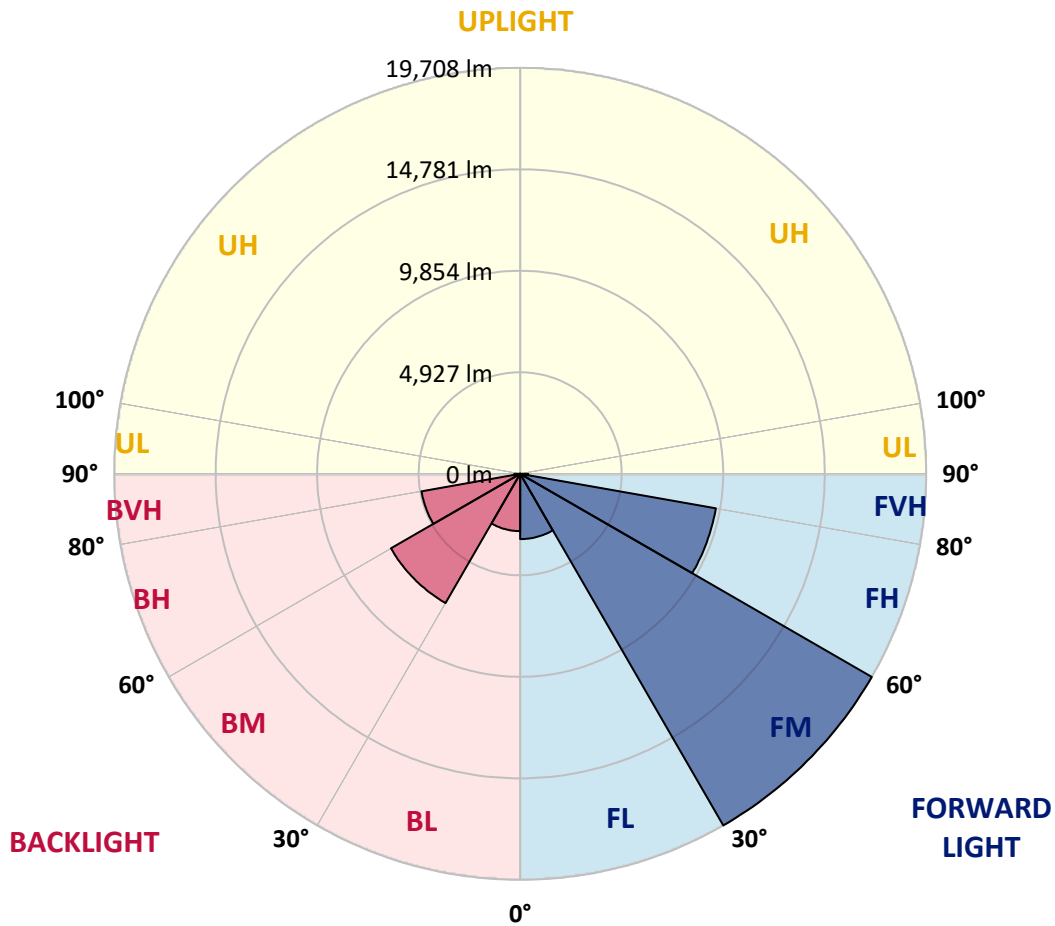
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3169.7  | 6.6       |                         |      |          |
| FM (30°-60°)   | 19708.4 | 41.0      |                         |      |          |
| FH (60°-80°)   | 9645.2  | 20.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 390.8   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 2782.9  | 5.8       | B4/5000                 |      |          |
| BM (30°-60°)   | 7244.2  | 15.1      | B4/8500                 |      |          |
| BH (60°-80°)   | 4867.9  | 10.1      | B4/5000                 |      | G4/5000  |
| BVH (80°-90°)  | 279.7   | 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°    | 5299.2  | 5299.2  | 5299.2  | 5299.2  | 5299.2  | 5299.2  | 5299.2  | 5299.2  | 5299.2  | 5299.2  |
| 2.5°  | 5264.3  | 5249.3  | 5261.8  | 5261.8  | 5266.8  | 5264.3  | 5281.7  | 5286.7  | 5294.2  | 5309.2  |
| 5°    | 5211.9  | 5209.4  | 5231.8  | 5251.8  | 5271.8  | 5289.2  | 5311.7  | 5344.1  | 5349.1  | 5366.6  |
| 7.5°  | 5194.4  | 5179.4  | 5214.4  | 5239.3  | 5286.7  | 5329.1  | 5389.0  | 5443.9  | 5466.4  | 5473.8  |
| 10°   | 5329.1  | 5304.2  | 5336.6  | 5351.6  | 5391.5  | 5433.9  | 5503.8  | 5591.1  | 5616.1  | 5646.0  |
| 12.5° | 5558.7  | 5531.2  | 5578.6  | 5601.1  | 5638.5  | 5675.9  | 5723.3  | 5808.2  | 5820.6  | 5875.5  |
| 15°   | 5873.0  | 5840.6  | 5870.5  | 5898.0  | 5960.4  | 5995.3  | 6042.7  | 6125.0  | 6125.0  | 6167.4  |
| 17.5° | 6299.7  | 6257.2  | 6279.7  | 6289.7  | 6329.6  | 6382.0  | 6461.8  | 6534.2  | 6571.6  | 6556.6  |
| 20°   | 6935.9  | 6883.5  | 6883.5  | 6833.6  | 6818.6  | 6861.0  | 6965.8  | 7065.6  | 7105.5  | 7028.2  |
| 22.5° | 7891.4  | 7816.6  | 7774.2  | 7604.5  | 7537.1  | 7542.1  | 7646.9  | 7769.2  | 7801.6  | 7664.4  |
| 25°   | 9106.4  | 8989.2  | 8931.8  | 8682.3  | 8530.1  | 8397.9  | 8480.2  | 8637.4  | 8682.3  | 8512.6  |
| 27.5° | 10321.5 | 10328.9 | 10274.1 | 9974.7  | 9722.7  | 9480.7  | 9438.3  | 9602.9  | 9650.3  | 9458.2  |
| 30°   | 12025.5 | 11848.4 | 11743.6 | 11384.3 | 11025.0 | 10685.7 | 10511.1 | 10578.4 | 10590.9 | 10361.4 |
| 32.5° | 13495.0 | 13450.1 | 13225.5 | 12911.2 | 12449.6 | 11918.2 | 11626.3 | 11519.0 | 11499.1 | 11172.2 |
| 35°   | 15169.1 | 15144.1 | 14907.1 | 14532.9 | 14033.9 | 13295.4 | 12769.0 | 12462.1 | 12437.2 | 11978.1 |
| 37.5° | 16870.6 | 16870.6 | 16638.6 | 16229.4 | 15713.0 | 14789.9 | 13989.0 | 13502.5 | 13422.6 | 12823.9 |
| 40°   | 18227.8 | 18145.5 | 18187.9 | 18015.8 | 17424.5 | 16444.0 | 15343.7 | 14637.7 | 14530.4 | 13811.8 |
| 42.5° | 18998.8 | 18971.3 | 19225.8 | 19417.9 | 19175.9 | 18392.5 | 16835.7 | 15867.7 | 15718.0 | 14899.6 |
| 45°   | 19170.9 | 19141.0 | 19595.1 | 20298.6 | 20637.9 | 20316.1 | 18457.4 | 17162.5 | 16980.4 | 16037.3 |
| 47.5° | 18774.2 | 18714.4 | 19380.5 | 20490.7 | 21578.5 | 22144.9 | 20213.8 | 18567.2 | 18302.7 | 17145.1 |
| 50°   | 17581.7 | 17524.3 | 18532.2 | 20006.7 | 21895.4 | 23387.3 | 22119.9 | 20056.6 | 19652.4 | 18332.6 |
| 52.5° | 14989.4 | 15016.9 | 16596.2 | 18622.0 | 21478.7 | 24160.8 | 23761.6 | 21625.9 | 21139.4 | 19547.7 |
| 55°   | 11676.2 | 11736.1 | 13677.1 | 15907.6 | 19812.1 | 24043.5 | 24881.8 | 23242.6 | 22758.6 | 20690.3 |
| 57.5° | 8360.5  | 8624.9  | 10443.7 | 12651.7 | 16611.1 | 22184.8 | 25126.3 | 24779.5 | 24310.5 | 21937.8 |
| 60°   | 5419.0  | 5466.4  | 7337.5  | 9563.0  | 12649.2 | 18881.5 | 24629.8 | 25944.6 | 25577.9 | 23210.2 |
| 62.5° | 3472.9  | 3505.4  | 4645.5  | 6688.9  | 9103.9  | 13969.0 | 22958.2 | 26451.1 | 26338.8 | 24051.0 |
| 65°   | 2552.3  | 2527.3  | 3121.1  | 4421.0  | 6132.5  | 8614.9  | 19712.3 | 26206.6 | 26428.6 | 24577.4 |
| 67.5° | 2130.7  | 2095.7  | 2387.6  | 3061.3  | 4518.3  | 4892.5  | 14585.3 | 24617.3 | 25430.7 | 24517.5 |
| 70°   | 1941.0  | 1911.1  | 2088.2  | 2272.9  | 3525.3  | 3275.8  | 7352.5  | 21401.4 | 22653.8 | 23836.4 |
| 72.5° | 1644.1  | 1591.8  | 1833.8  | 2018.4  | 2741.9  | 2512.4  | 3038.8  | 16439.0 | 17965.9 | 21653.4 |
| 75°   | 1274.9  | 1240.0  | 1447.1  | 1776.4  | 2060.8  | 1961.0  | 1921.1  | 9982.2  | 11648.8 | 16745.9 |
| 77.5° | 1010.4  | 963.0   | 1152.7  | 1384.7  | 1853.7  | 1479.5  | 1399.6  | 4298.7  | 5950.4  | 10690.7 |
| 80°   | 760.9   | 718.5   | 875.7   | 1095.3  | 1424.6  | 1115.2  | 905.7   | 1753.9  | 2242.9  | 5416.5  |
| 82.5° | 541.4   | 504.0   | 611.3   | 803.4   | 958.0   | 1000.5  | 556.4   | 983.0   | 1105.2  | 2088.2  |
| 85°   | 346.8   | 324.3   | 409.2   | 504.0   | 608.8   | 643.7   | 339.3   | 514.0   | 563.9   | 860.7   |
| 87.5° | 189.6   | 154.7   | 219.6   | 234.5   | 281.9   | 257.0   | 162.2   | 187.1   | 202.1   | 311.9   |
| 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°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5299.2  | 0°    | 5299.2  | 5299.2  | 5299.2  | 5299.2 | 5299.2 | 5299.2 | 5299.2 | 5299.2 | 5299.2 | 5299.2 |
| 5309.2  | 2.5°  | 5319.2  | 5326.6  | 5351.6  | 5359.1 | 5376.5 | 5399.0 | 5414.0 | 5428.9 | 5428.9 | 5443.9 |
| 5389.0  | 5°    | 5391.5  | 5409.0  | 5461.4  | 5488.8 | 5533.7 | 5578.6 | 5606.1 | 5638.5 | 5658.5 | 5668.4 |
| 5516.3  | 7.5°  | 5531.2  | 5558.7  | 5633.5  | 5680.9 | 5758.3 | 5820.6 | 5863.1 | 5908.0 | 5917.9 | 5945.4 |
| 5693.4  | 10°   | 5720.8  | 5753.3  | 5838.1  | 5927.9 | 6020.2 | 6097.6 | 6137.5 | 6169.9 | 6182.4 | 6187.4 |
| 5920.4  | 12.5° | 5937.9  | 5985.3  | 6095.1  | 6204.9 | 6302.2 | 6369.5 | 6379.5 | 6372.0 | 6337.1 | 6307.1 |
| 6199.9  | 15°   | 6204.9  | 6247.3  | 6369.5  | 6489.3 | 6584.1 | 6596.6 | 6534.2 | 6494.3 | 6451.8 | 6444.4 |
| 6511.7  | 17.5° | 6524.2  | 6546.7  | 6658.9  | 6776.2 | 6783.7 | 6741.3 | 6648.9 | 6611.5 | 6571.6 | 6544.2 |
| 6918.4  | 20°   | 6895.9  | 6888.5  | 6968.3  | 7018.2 | 6965.8 | 6836.1 | 6696.4 | 6634.0 | 6594.1 | 6561.6 |
| 7417.4  | 22.5° | 7340.0  | 7282.7  | 7272.7  | 7260.2 | 7120.5 | 6848.5 | 6658.9 | 6579.1 | 6516.7 | 6471.8 |
| 8113.5  | 25°   | 7986.2  | 7766.7  | 7614.5  | 7529.7 | 7215.3 | 6781.2 | 6539.2 | 6362.0 | 6244.8 | 6167.4 |
| 8964.2  | 27.5° | 8794.6  | 8425.3  | 8041.1  | 7834.0 | 7215.3 | 6644.0 | 6249.8 | 5962.8 | 5770.7 | 5690.9 |
| 9787.6  | 30°   | 9565.5  | 9178.8  | 8612.4  | 8200.8 | 7197.8 | 6419.4 | 5783.2 | 5384.0 | 5159.5 | 5079.6 |
| 10491.1 | 32.5° | 10224.2 | 9802.5  | 9218.7  | 8602.5 | 7155.4 | 6055.2 | 5204.4 | 4762.8 | 4545.7 | 4450.9 |
| 11187.2 | 35°   | 10835.4 | 10386.3 | 9827.5  | 9044.1 | 7043.1 | 5521.2 | 4568.2 | 4231.4 | 3989.4 | 3837.2 |
| 11895.8 | 37.5° | 11461.6 | 10927.7 | 10403.8 | 9443.3 | 6841.1 | 4897.5 | 4079.2 | 3792.3 | 3507.9 | 3303.3 |
| 12649.2 | 40°   | 12142.8 | 11504.1 | 11020.0 | 9680.3 | 6509.2 | 4303.7 | 3700.0 | 3438.0 | 3136.1 | 2919.1 |
| 13517.4 | 42.5° | 12938.6 | 12195.1 | 11706.1 | 9802.5 | 6055.2 | 3882.1 | 3453.0 | 3196.0 | 2911.6 | 2734.4 |
| 14448.1 | 45°   | 13769.4 | 12956.1 | 12332.4 | 9800.0 | 5548.7 | 3685.0 | 3373.1 | 3118.6 | 2804.3 | 2619.7 |
| 15403.6 | 47.5° | 14640.2 | 13752.0 | 12873.8 | 9640.4 | 5109.6 | 3712.4 | 3328.2 | 2951.5 | 2604.7 | 2425.1 |
| 16369.1 | 50°   | 15513.4 | 14622.7 | 13397.7 | 9341.0 | 4922.5 | 3652.6 | 3161.1 | 2717.0 | 2307.8 | 2145.6 |
| 17274.8 | 52.5° | 16379.1 | 15548.3 | 13849.3 | 8914.3 | 4732.9 | 3430.5 | 2946.5 | 2412.6 | 2185.5 | 2073.3 |
| 18210.4 | 55°   | 17249.8 | 16463.9 | 14340.8 | 8293.1 | 4258.8 | 3171.0 | 2587.2 | 2297.8 | 2088.2 | 1986.0 |
| 19126.0 | 57.5° | 18123.1 | 17521.8 | 14807.3 | 7671.9 | 3662.5 | 2851.7 | 2390.1 | 2158.1 | 1990.9 | 1903.6 |
| 19892.0 | 60°   | 19031.2 | 18731.8 | 15288.8 | 7100.5 | 3073.7 | 2442.5 | 2245.4 | 2045.8 | 1876.2 | 1778.9 |
| 20628.0 | 62.5° | 19966.8 | 20064.1 | 15665.6 | 6364.5 | 2532.3 | 2193.0 | 2115.7 | 1911.1 | 1746.4 | 1654.1 |
| 21236.7 | 65°   | 20909.9 | 21349.0 | 15912.6 | 5344.1 | 2053.3 | 1956.0 | 1976.0 | 1763.9 | 1596.7 | 1516.9 |
| 21683.3 | 67.5° | 21620.9 | 22274.6 | 15842.7 | 4044.3 | 1684.1 | 1731.5 | 1801.3 | 1609.2 | 1452.0 | 1389.7 |
| 21611.0 | 70°   | 21700.8 | 22164.8 | 15154.1 | 2769.4 | 1409.6 | 1511.9 | 1606.7 | 1457.0 | 1294.9 | 1250.0 |
| 20593.0 | 72.5° | 20637.9 | 20667.9 | 13235.5 | 1808.8 | 1192.6 | 1327.3 | 1402.1 | 1302.3 | 1145.2 | 1100.3 |
| 18015.8 | 75°   | 17851.1 | 17092.7 | 9717.7  | 1192.6 | 998.0  | 1140.2 | 1210.0 | 1140.2 | 988.0  | 998.0  |
| 13480.0 | 77.5° | 13524.9 | 12105.3 | 5900.5  | 848.3  | 833.3  | 958.0  | 1052.9 | 1003.0 | 873.2  | 980.5  |
| 6778.7  | 80°   | 6968.3  | 6549.2  | 2632.1  | 633.7  | 658.7  | 765.9  | 865.7  | 800.9  | 691.1  | 658.7  |
| 1514.4  | 82.5° | 1596.7  | 1856.2  | 1037.9  | 454.1  | 476.5  | 551.4  | 661.2  | 601.3  | 496.5  | 419.1  |
| 631.2   | 85°   | 558.9   | 611.3   | 459.1   | 284.4  | 279.4  | 344.3  | 449.1  | 401.7  | 336.8  | 269.5  |
| 267.0   | 87.5° | 177.1   | 232.0   | 172.1   | 114.8  | 119.8  | 154.7  | 207.1  | 189.6  | 157.2  | 102.3  |
| 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°  
5299.2  
5443.9  
5673.4  
5935.4  
6174.9  
6307.1  
6444.4  
6546.7  
6564.1  
6486.8  
6197.4  
5730.8  
5127.1  
4498.3  
3887.1  
3358.2  
2961.5  
2769.4  
2649.6  
2450.0  
2155.6  
2073.3  
1976.0  
1888.7  
1771.4  
1651.6  
1514.4  
1392.2  
1252.4  
1097.8  
963.0  
863.2  
601.3  
414.2  
284.4  
107.3  
0.0

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