

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: P957323

Luminaire Tested: **GALN-SB9C-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

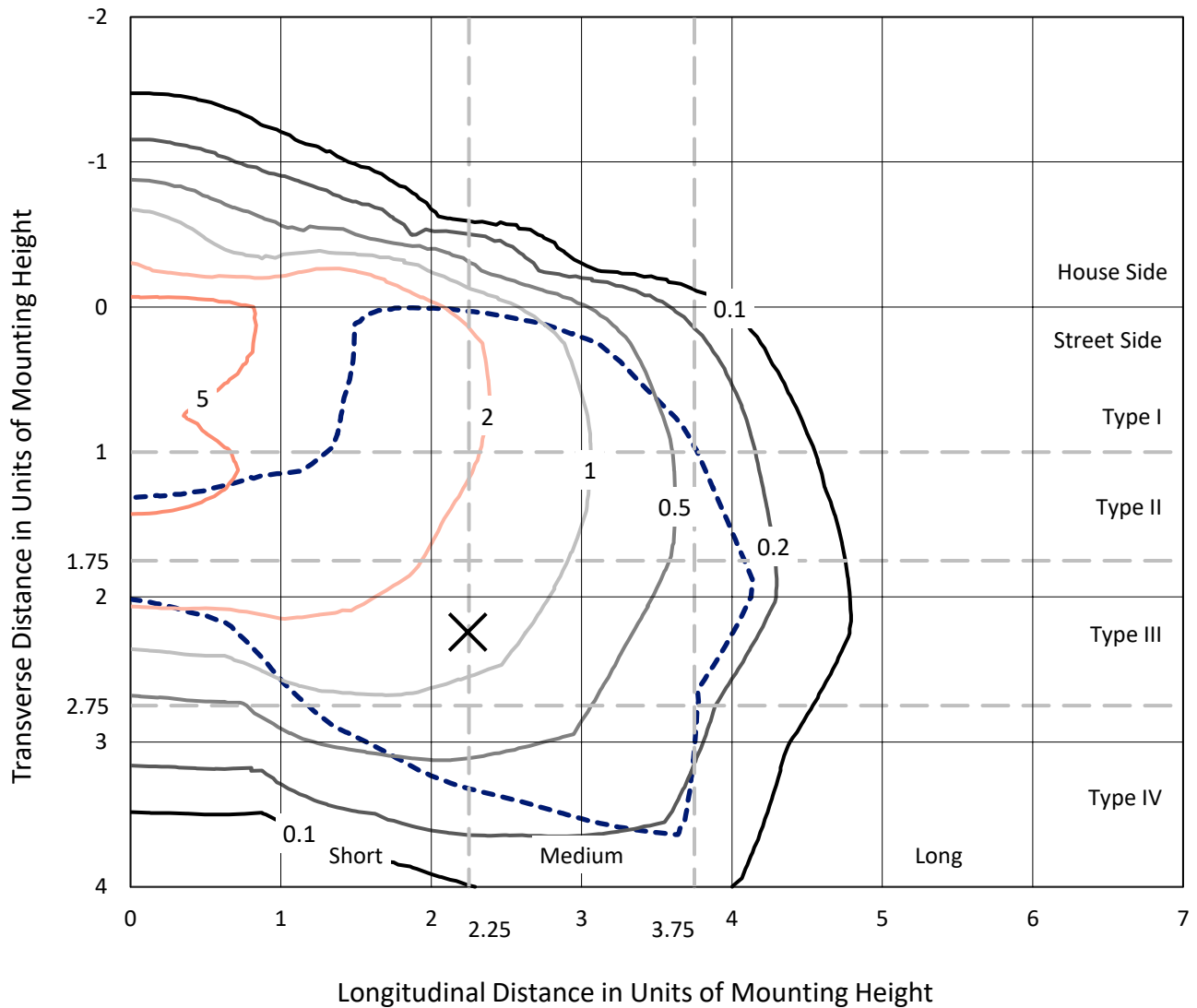
Lumens per Lamp: N/A  
Luminaire Lumens: 36552 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

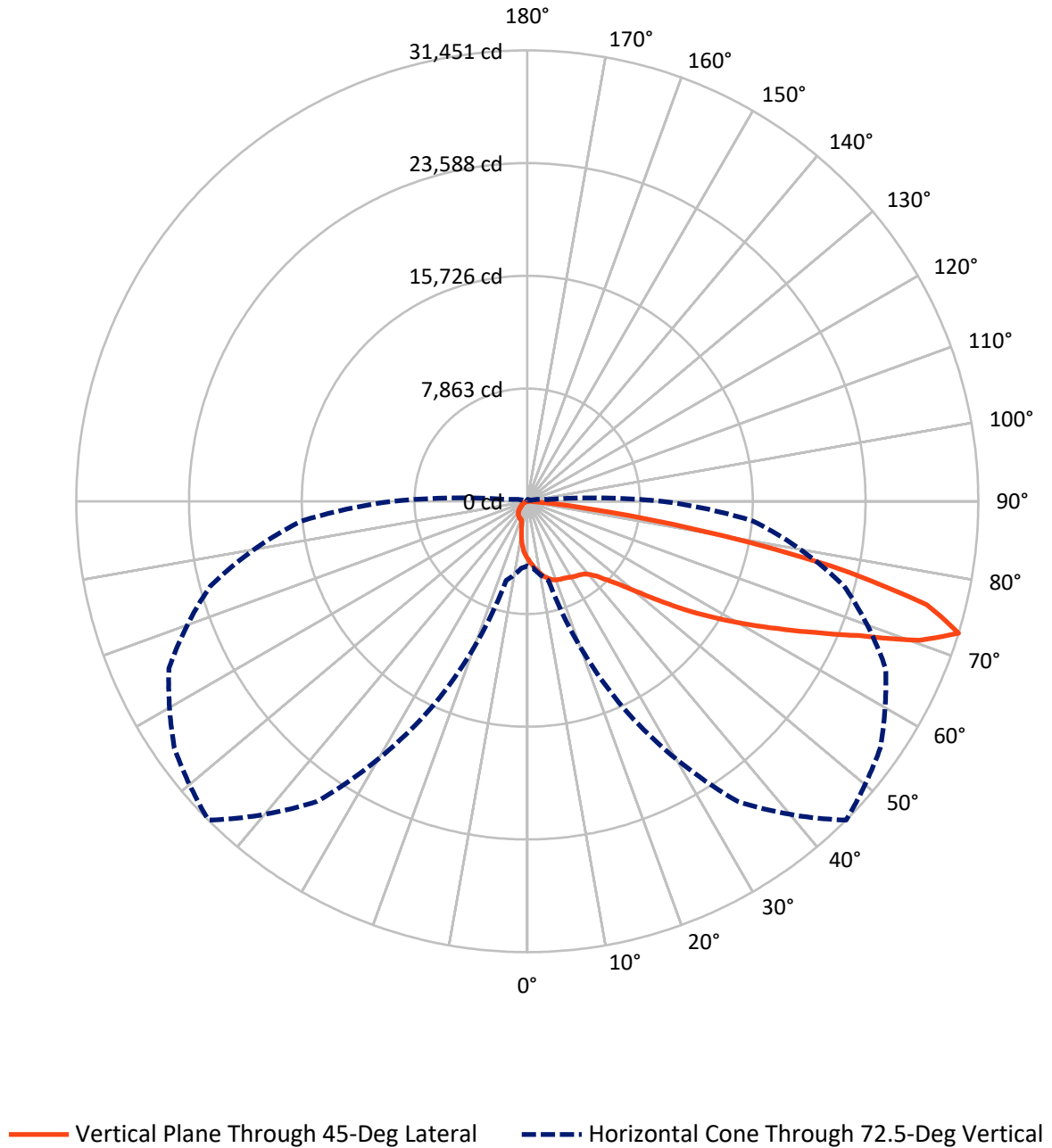
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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    | 3840.6   | 0.0    | 3840.6  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 32711.4  | 0.0    | 32711.4 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 36552.0  | 0.0    | 36552.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 377.3   | 1.0       |
| 10°-20°   | 1102.7  | 3.0       |
| 20°-30°   | 1810.7  | 5.0       |
| 30°-40°   | 2568.0  | 7.0       |
| 40°-50°   | 4244.7  | 11.6      |
| 50°-60°   | 7625.2  | 20.9      |
| 60°-70°   | 10588.0 | 29.0      |
| 70°-80°   | 7680.2  | 21.0      |
| 80°-90°   | 555.2   | 1.5       |
| 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°    | 36552.0 | 100.0     |
| 0°-180°   | 36552.0 | 100.0     |

**Coefficient of Utilization**



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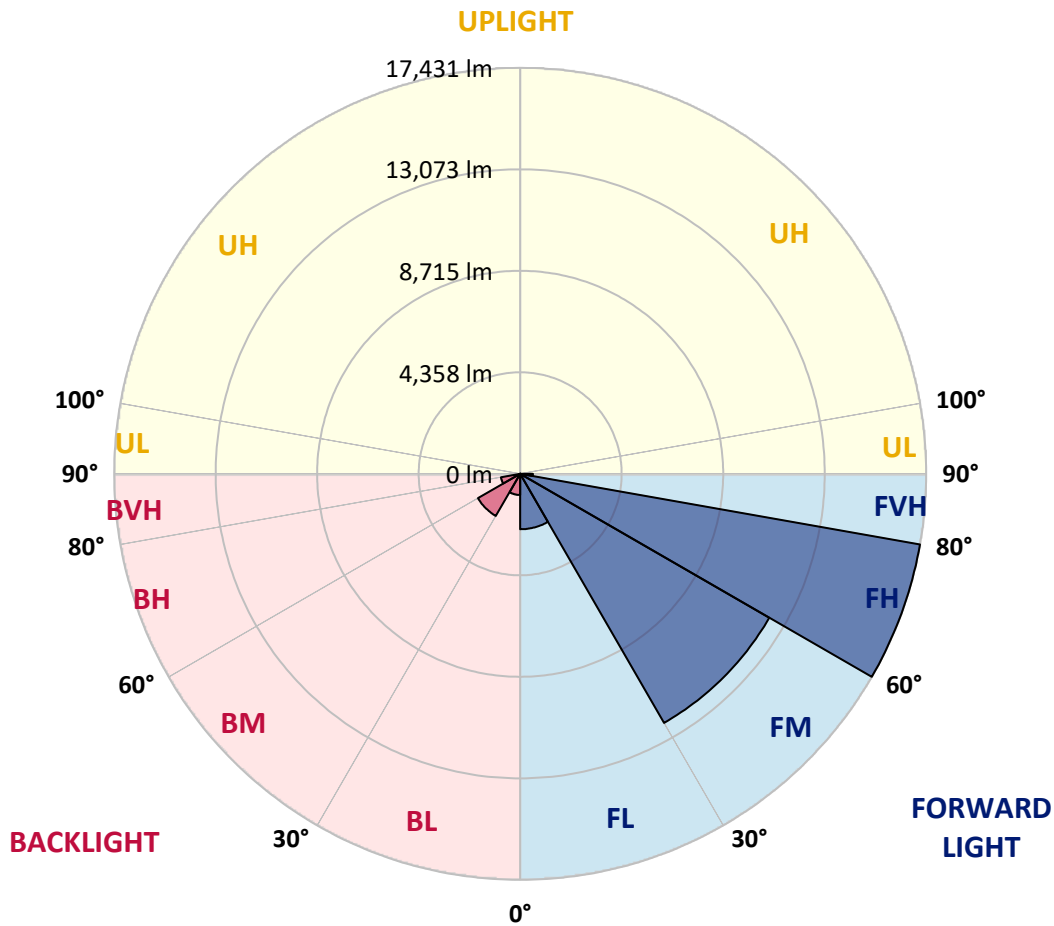
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2381.0  | 6.5       |                         |      |         |
| FM (30°-60°)   | 12349.2 | 33.8      |                         |      |         |
| FH (60°-80°)   | 17430.6 | 47.7      |                         |      | G5      |
| FVH (80°-90°)  | 550.6   | 1.5       |                         |      | G4/750  |
| BL (0°-30°)    | 909.7   | 2.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 2088.7  | 5.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 837.5   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 4.7     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4004.3  | 4004.3  | 4004.3  | 4004.3  | 4004.3  | 4004.3  | 4004.3  | 4004.3  | 4004.3  | 4004.3  |
| 2.5°  | 4373.6  | 4381.1  | 4376.1  | 4346.2  | 4296.3  | 4268.8  | 4253.8  | 4203.9  | 4171.5  | 4114.1  |
| 5°    | 4775.3  | 4805.2  | 4787.8  | 4727.9  | 4633.1  | 4565.7  | 4545.7  | 4443.5  | 4351.1  | 4243.9  |
| 7.5°  | 5201.9  | 5216.9  | 5184.4  | 5107.1  | 4979.9  | 4865.1  | 4847.6  | 4705.4  | 4558.2  | 4393.6  |
| 10°   | 5571.2  | 5588.6  | 5538.7  | 5426.5  | 5281.7  | 5139.5  | 5114.6  | 4957.4  | 4782.8  | 4580.7  |
| 12.5° | 5880.5  | 5898.0  | 5833.1  | 5698.4  | 5538.7  | 5391.5  | 5366.6  | 5201.9  | 5009.8  | 4785.3  |
| 15°   | 6115.1  | 6147.5  | 6060.2  | 5915.5  | 5743.3  | 5596.1  | 5583.6  | 5421.5  | 5234.3  | 4984.9  |
| 17.5° | 6252.3  | 6284.7  | 6202.4  | 6027.7  | 5880.5  | 5755.8  | 5740.8  | 5606.1  | 5431.4  | 5191.9  |
| 20°   | 6274.7  | 6304.7  | 6217.3  | 6065.2  | 5942.9  | 5843.1  | 5835.6  | 5738.3  | 5611.1  | 5381.5  |
| 22.5° | 6207.4  | 6244.8  | 6165.0  | 6042.7  | 5957.9  | 5905.5  | 5895.5  | 5840.6  | 5768.3  | 5573.7  |
| 25°   | 6137.5  | 6167.4  | 6107.6  | 6000.3  | 5955.4  | 5950.4  | 5957.9  | 5947.9  | 5932.9  | 5768.3  |
| 27.5° | 6132.5  | 6165.0  | 6097.6  | 5995.3  | 5970.3  | 6022.7  | 6030.2  | 6077.6  | 6090.1  | 5945.4  |
| 30°   | 6174.9  | 6197.4  | 6132.5  | 6025.2  | 6012.8  | 6132.5  | 6135.0  | 6219.8  | 6239.8  | 6095.1  |
| 32.5° | 6267.2  | 6292.2  | 6227.3  | 6070.1  | 6052.7  | 6219.8  | 6227.3  | 6339.6  | 6372.0  | 6254.8  |
| 35°   | 6484.3  | 6514.2  | 6439.4  | 6194.9  | 6132.5  | 6302.2  | 6324.6  | 6456.9  | 6521.7  | 6424.4  |
| 37.5° | 7025.7  | 6938.4  | 6836.1  | 6446.9  | 6314.6  | 6431.9  | 6469.3  | 6624.0  | 6738.8  | 6626.5  |
| 40°   | 8370.5  | 8096.0  | 7776.7  | 6876.0  | 6634.0  | 6708.8  | 6738.8  | 6893.5  | 7050.6  | 6940.9  |
| 42.5° | 10388.9 | 10064.5 | 9550.6  | 7864.0  | 7115.5  | 7152.9  | 7175.4  | 7310.1  | 7532.2  | 7444.8  |
| 45°   | 12187.7 | 12070.4 | 11546.5 | 9550.6  | 8016.2  | 7831.6  | 7859.0  | 7928.9  | 8255.7  | 8223.3  |
| 47.5° | 13569.9 | 13502.5 | 13098.3 | 11486.6 | 9538.1  | 8662.4  | 8739.7  | 8772.1  | 9243.7  | 9358.5  |
| 50°   | 14632.7 | 14607.8 | 14246.0 | 13208.1 | 11526.5 | 9887.4  | 9914.8  | 9845.0  | 10551.0 | 10835.4 |
| 52.5° | 15635.7 | 15720.5 | 15453.5 | 14807.4 | 13649.7 | 11491.6 | 11486.6 | 11157.3 | 12110.4 | 12539.5 |
| 55°   | 16541.3 | 16571.3 | 16598.7 | 16439.0 | 15785.4 | 13317.9 | 13270.5 | 12731.6 | 13919.2 | 14363.3 |
| 57.5° | 17392.1 | 17404.6 | 17649.1 | 17975.9 | 18008.3 | 15278.9 | 15191.6 | 14545.4 | 15895.1 | 16212.0 |
| 60°   | 17963.4 | 18020.8 | 18537.3 | 19445.4 | 19842.1 | 17302.3 | 17254.9 | 16596.2 | 17906.1 | 18053.3 |
| 62.5° | 17140.1 | 17489.4 | 18791.8 | 20593.1 | 21573.6 | 19545.2 | 19522.8 | 18904.0 | 20021.7 | 19902.0 |
| 65°   | 13874.3 | 14465.6 | 16755.9 | 21369.0 | 23272.6 | 22050.1 | 22082.6 | 21423.9 | 22194.8 | 21805.6 |
| 67.5° | 9705.2  | 10329.0 | 13038.5 | 21431.4 | 25171.3 | 24991.6 | 25178.7 | 24145.9 | 24502.6 | 23629.4 |
| 70°   | 6711.3  | 7033.2  | 8797.1  | 20089.1 | 26650.8 | 29043.4 | 29038.4 | 27489.0 | 26798.0 | 24460.2 |
| 72.5° | 4513.3  | 4680.5  | 5713.4  | 15937.6 | 25563.0 | 31451.0 | 31306.3 | 30043.8 | 27571.4 | 22875.9 |
| 75°   | 1903.6  | 2025.9  | 2644.6  | 8956.8  | 20223.8 | 28773.9 | 28382.2 | 26551.0 | 24497.6 | 18013.3 |
| 77.5° | 603.8   | 656.2   | 1042.9  | 3206.0  | 11139.8 | 21628.5 | 21214.3 | 16581.2 | 16419.1 | 9036.6  |
| 80°   | 286.9   | 334.3   | 586.3   | 1287.4  | 4383.6  | 11763.6 | 11706.2 | 7522.2  | 7063.1  | 2440.0  |
| 82.5° | 124.7   | 147.2   | 324.3   | 688.6   | 1961.0  | 4196.5  | 4281.3  | 2559.8  | 2118.2  | 925.6   |
| 85°   | 39.9    | 52.4    | 149.7   | 316.9   | 828.3   | 1042.9  | 1030.4  | 608.8   | 853.3   | 504.0   |
| 87.5° | 0.0     | 0.0     | 49.9    | 72.4    | 84.8    | 59.9    | 67.4    | 52.4    | 237.0   | 139.7   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4004.3  | 0°    | 4004.3  | 4004.3  | 4004.3 | 4004.3 | 4004.3 | 4004.3 | 4004.3 | 4004.3 | 4004.3 | 4004.3 |
| 4054.2  | 2.5°  | 4024.3  | 3984.4  | 3914.5 | 3849.7 | 3792.3 | 3734.9 | 3700.0 | 3650.1 | 3645.1 | 3645.1 |
| 4119.1  | 5°    | 4051.8  | 3986.9  | 3862.1 | 3729.9 | 3577.7 | 3433.0 | 3288.3 | 3148.6 | 3103.7 | 3071.2 |
| 4223.9  | 7.5°  | 4131.6  | 4029.3  | 3832.2 | 3580.2 | 3290.8 | 2973.9 | 2751.9 | 2512.4 | 2420.1 | 2370.2 |
| 4363.6  | 10°   | 4246.4  | 4106.6  | 3807.3 | 3365.6 | 2896.6 | 2465.0 | 2148.1 | 1888.7 | 1788.9 | 1746.4 |
| 4515.8  | 12.5° | 4373.6  | 4201.4  | 3762.3 | 3098.7 | 2465.0 | 1948.5 | 1639.2 | 1519.4 | 1504.4 | 1504.4 |
| 4697.9  | 15°   | 4525.8  | 4316.2  | 3685.0 | 2784.3 | 2013.4 | 1541.9 | 1432.1 | 1437.1 | 1452.0 | 1462.0 |
| 4875.1  | 17.5° | 4683.0  | 4438.5  | 3562.7 | 2432.5 | 1614.2 | 1387.2 | 1389.7 | 1397.2 | 1409.6 | 1419.6 |
| 5067.2  | 20°   | 4852.6  | 4560.7  | 3400.6 | 2058.3 | 1384.7 | 1342.3 | 1349.8 | 1357.2 | 1367.2 | 1372.2 |
| 5246.8  | 22.5° | 5034.8  | 4675.5  | 3208.5 | 1691.6 | 1307.3 | 1304.8 | 1307.3 | 1314.8 | 1327.3 | 1327.3 |
| 5456.4  | 25°   | 5229.4  | 4802.7  | 2988.9 | 1424.6 | 1267.4 | 1267.4 | 1272.4 | 1277.4 | 1287.4 | 1287.4 |
| 5658.5  | 27.5° | 5428.9  | 4920.0  | 2756.9 | 1284.9 | 1232.5 | 1230.0 | 1230.0 | 1237.5 | 1242.5 | 1245.0 |
| 5858.1  | 30°   | 5648.5  | 5057.2  | 2524.9 | 1254.9 | 1205.0 | 1192.6 | 1185.1 | 1190.1 | 1195.1 | 1197.6 |
| 6067.6  | 32.5° | 5873.0  | 5189.4  | 2317.8 | 1267.4 | 1177.6 | 1155.1 | 1130.2 | 1125.2 | 1125.2 | 1135.2 |
| 6284.7  | 35°   | 6122.5  | 5334.1  | 2158.1 | 1309.8 | 1162.6 | 1100.3 | 1060.3 | 1037.9 | 1040.4 | 1055.4 |
| 6544.2  | 37.5° | 6421.9  | 5508.8  | 2040.8 | 1347.3 | 1152.7 | 1037.9 | 973.0  | 945.6  | 928.1  | 945.6  |
| 6901.0  | 40°   | 6813.6  | 5765.8  | 1956.0 | 1377.2 | 1140.2 | 965.5  | 878.2  | 833.3  | 800.9  | 810.8  |
| 7454.8  | 42.5° | 7390.0  | 6169.9  | 1923.6 | 1379.7 | 1112.7 | 880.7  | 780.9  | 721.0  | 673.6  | 676.1  |
| 8288.1  | 45°   | 8198.3  | 6808.6  | 2090.7 | 1347.3 | 1052.9 | 788.4  | 678.6  | 598.8  | 568.8  | 561.4  |
| 9533.1  | 47.5° | 9306.1  | 7739.2  | 2477.5 | 1279.9 | 965.5  | 698.6  | 578.8  | 511.5  | 489.0  | 476.5  |
| 11167.3 | 50°   | 10790.5 | 8934.3  | 2906.6 | 1205.0 | 878.2  | 613.8  | 496.5  | 454.1  | 439.1  | 426.6  |
| 13105.8 | 52.5° | 12512.0 | 10146.8 | 3258.4 | 1130.2 | 790.9  | 538.9  | 444.1  | 419.1  | 406.7  | 396.7  |
| 14977.0 | 55°   | 14091.3 | 10982.6 | 3238.4 | 1050.4 | 706.1  | 479.0  | 406.7  | 391.7  | 376.7  | 366.8  |
| 16588.7 | 57.5° | 15074.3 | 11099.9 | 2669.6 | 963.0  | 608.8  | 431.6  | 371.7  | 361.8  | 344.3  | 331.8  |
| 17983.4 | 60°   | 15525.9 | 10431.3 | 1871.2 | 848.3  | 511.5  | 386.7  | 334.3  | 329.3  | 306.9  | 289.4  |
| 19303.2 | 62.5° | 15608.2 | 9188.8  | 1247.5 | 706.1  | 426.6  | 344.3  | 296.9  | 289.4  | 259.5  | 229.5  |
| 20376.0 | 65°   | 15273.9 | 7412.4  | 863.2  | 551.4  | 364.3  | 299.4  | 254.5  | 239.5  | 207.1  | 177.1  |
| 20630.5 | 67.5° | 14216.1 | 5204.4  | 601.3  | 396.7  | 309.4  | 237.0  | 202.1  | 197.1  | 172.1  | 147.2  |
| 19333.1 | 70°   | 12277.5 | 2966.5  | 401.7  | 296.9  | 244.5  | 162.2  | 159.7  | 164.7  | 139.7  | 119.8  |
| 15795.3 | 72.5° | 9413.3  | 1357.2  | 249.5  | 217.1  | 167.2  | 109.8  | 127.2  | 129.7  | 107.3  | 89.8   |
| 9854.9  | 75°   | 5541.2  | 581.3   | 157.2  | 139.7  | 84.8   | 72.4   | 92.3   | 94.8   | 72.4   | 57.4   |
| 3602.7  | 77.5° | 1886.2  | 219.6   | 99.8   | 82.3   | 42.4   | 39.9   | 59.9   | 59.9   | 39.9   | 22.5   |
| 723.5   | 80°   | 429.1   | 82.3    | 49.9   | 32.4   | 20.0   | 17.5   | 20.0   | 17.5   | 10.0   | 2.5    |
| 222.0   | 82.5° | 122.3   | 32.4    | 20.0   | 12.5   | 7.5    | 7.5    | 2.5    | 0.0    | 0.0    | 0.0    |
| 77.3    | 85°   | 34.9    | 15.0    | 5.0    | 5.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 27.4    | 87.5° | 15.0    | 2.5     | 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°   |
| 4004.3 |
| 3657.6 |
| 3086.2 |
| 2377.7 |
| 1746.4 |
| 1504.4 |
| 1462.0 |
| 1419.6 |
| 1374.7 |
| 1332.3 |
| 1289.9 |
| 1247.5 |
| 1202.6 |
| 1142.7 |
| 1062.8 |
| 940.6  |
| 805.9  |
| 666.1  |
| 551.4  |
| 469.0  |
| 424.1  |
| 394.2  |
| 361.8  |
| 329.3  |
| 284.4  |
| 214.6  |
| 167.2  |
| 139.7  |
| 109.8  |
| 79.8   |
| 49.9   |
| 17.5   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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