

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: P941347

Luminaire Tested: **GALN-SB4D-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4D-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

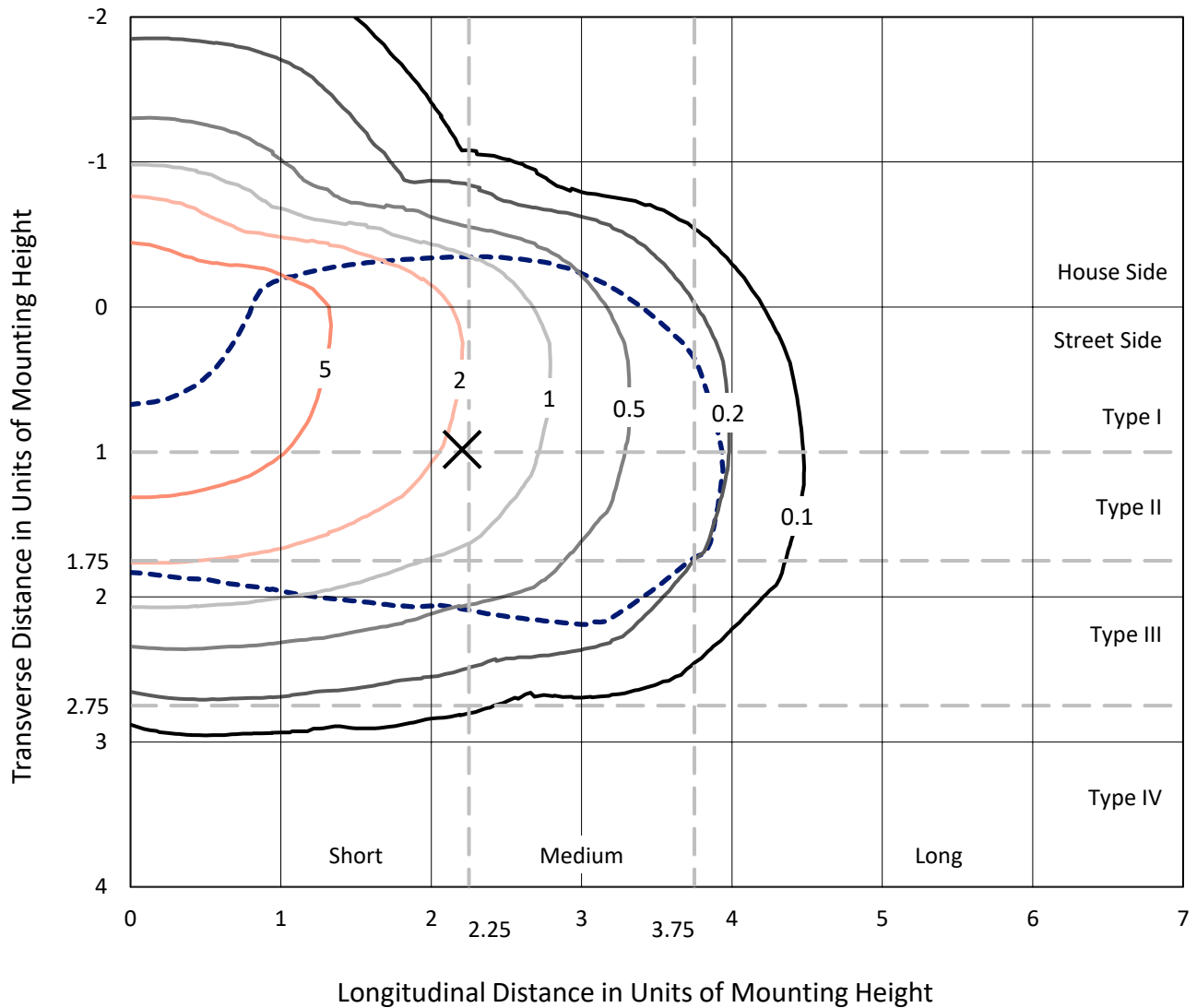
Lumens per Lamp: N/A  
Luminaire Lumens: 36671 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

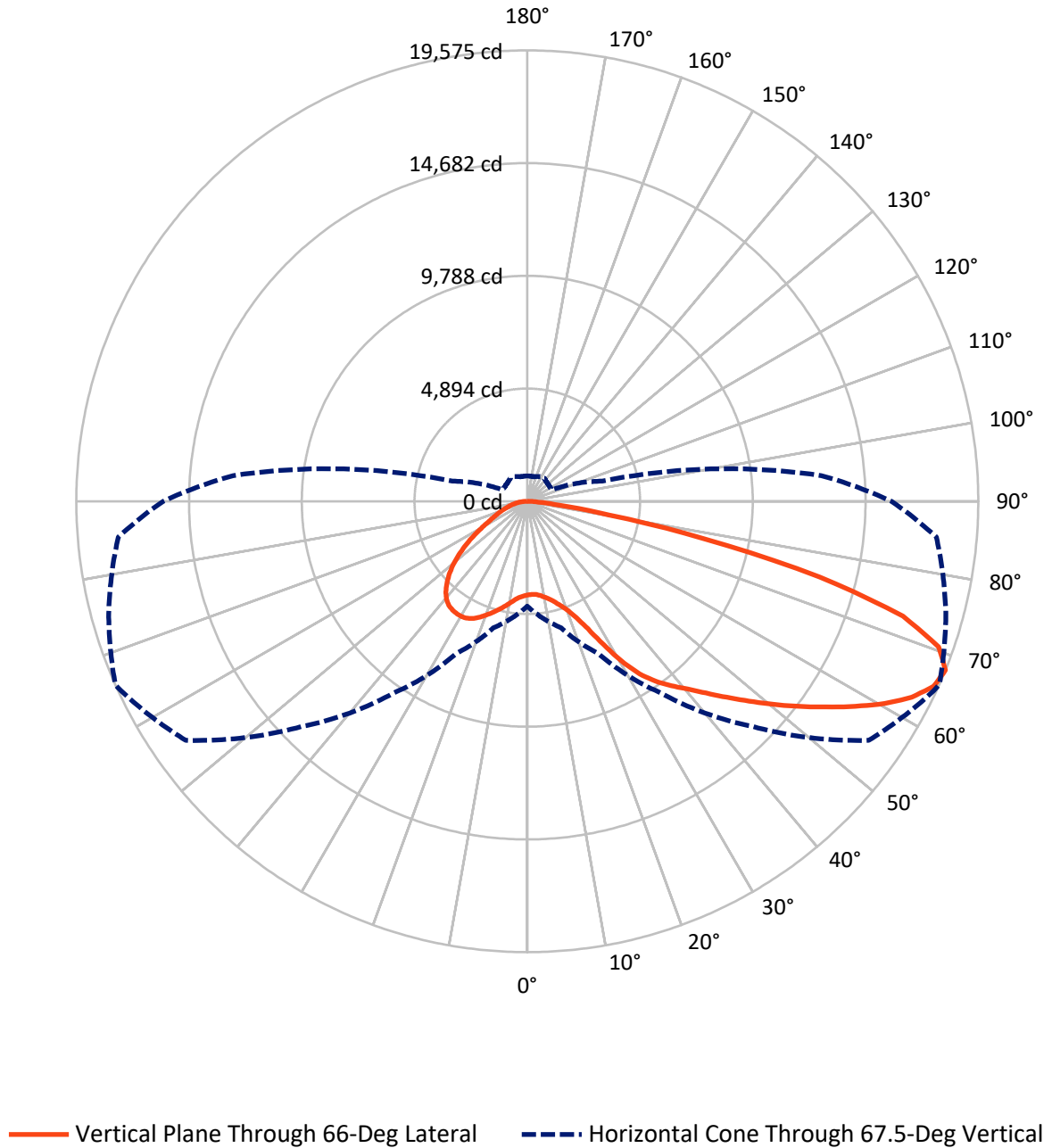
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - 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    | 9118.1   | 0.0    | 9118.1  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 27552.9  | 0.0    | 27552.9 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 36671.0  | 0.0    | 36671.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 403.3   | 1.1       |
| 10°-20°   | 1332.3  | 3.6       |
| 20°-30°   | 2567.9  | 7.0       |
| 30°-40°   | 4502.6  | 12.3      |
| 40°-50°   | 6693.8  | 18.3      |
| 50°-60°   | 8485.1  | 23.1      |
| 60°-70°   | 8302.4  | 22.6      |
| 70°-80°   | 3960.3  | 10.8      |
| 80°-90°   | 423.3   | 1.2       |
| 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°    | 36671.0 | 100.0     |
| 0°-180°   | 36671.0 | 100.0     |

**Coefficient of Utilization**



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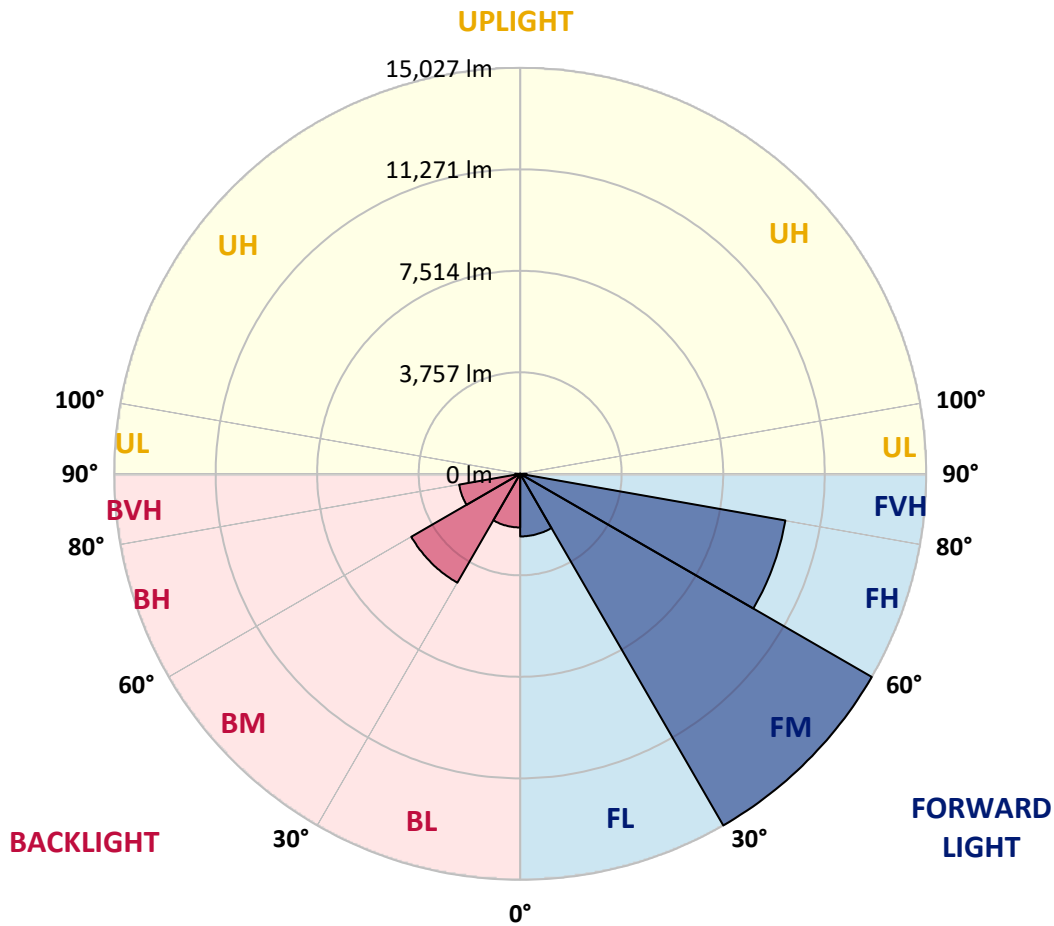
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2317.2  | 6.3       |                         |      |          |
| FM (30°-60°)   | 15027.5 | 41.0      |                         |      |          |
| FH (60°-80°)   | 9968.2  | 27.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 240.0   | 0.7       |                         |      | G3/500   |
| BL (0°-30°)    | 1986.3  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 4654.0  | 12.7      | B3/5000                 |      |          |
| BH (60°-80°)   | 2294.6  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 183.3   | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4067.3  | 4067.3  | 4067.3  | 4067.3  | 4067.3  | 4067.3  | 4067.3  | 4067.3  | 4067.3  | 4067.3  |
| 2.5°  | 4024.9  | 4048.0  | 4042.3  | 4032.6  | 4030.7  | 4034.5  | 4040.3  | 4046.1  | 4044.2  | 4053.8  |
| 5°    | 4013.4  | 4036.5  | 4034.5  | 4034.5  | 4042.3  | 4057.7  | 4067.3  | 4076.9  | 4067.3  | 4078.9  |
| 7.5°  | 4021.1  | 4038.4  | 4046.1  | 4053.8  | 4073.1  | 4102.0  | 4125.1  | 4146.3  | 4134.7  | 4148.2  |
| 10°   | 4119.3  | 4132.8  | 4140.5  | 4140.5  | 4154.0  | 4186.8  | 4209.9  | 4248.4  | 4238.8  | 4260.0  |
| 12.5° | 4298.5  | 4312.0  | 4312.0  | 4304.3  | 4313.9  | 4335.1  | 4342.8  | 4385.2  | 4367.9  | 4402.5  |
| 15°   | 4518.2  | 4545.1  | 4523.9  | 4510.4  | 4514.3  | 4535.5  | 4533.6  | 4566.3  | 4549.0  | 4577.9  |
| 17.5° | 4760.9  | 4795.6  | 4760.9  | 4759.0  | 4751.3  | 4774.4  | 4776.3  | 4805.2  | 4774.4  | 4795.6  |
| 20°   | 5048.0  | 5096.2  | 5067.3  | 5076.9  | 5059.6  | 5069.2  | 5078.8  | 5121.2  | 5073.0  | 5088.5  |
| 22.5° | 5452.6  | 5510.4  | 5479.6  | 5516.2  | 5504.6  | 5496.9  | 5495.0  | 5570.1  | 5495.0  | 5500.8  |
| 25°   | 6042.2  | 6111.5  | 6057.6  | 6107.7  | 6107.7  | 6132.7  | 6161.6  | 6258.0  | 6132.7  | 6096.1  |
| 27.5° | 6913.1  | 6982.4  | 6876.5  | 6907.3  | 6897.6  | 6959.3  | 6928.5  | 7167.4  | 7032.5  | 6972.8  |
| 30°   | 7961.2  | 8084.5  | 7884.1  | 7876.4  | 7866.8  | 7965.0  | 8009.4  | 8167.4  | 8030.6  | 7970.8  |
| 32.5° | 9094.1  | 9223.2  | 8984.3  | 8914.9  | 8878.3  | 8938.0  | 8901.4  | 9028.6  | 8934.2  | 8841.7  |
| 35°   | 10292.5 | 10419.7 | 10192.3 | 10057.5 | 9911.0  | 9785.8  | 9654.8  | 9687.5  | 9598.9  | 9458.3  |
| 37.5° | 11425.4 | 11658.6 | 11417.7 | 11273.2 | 11003.5 | 10758.8 | 10392.7 | 10240.5 | 10157.6 | 10028.6 |
| 40°   | 12579.5 | 12712.5 | 12529.4 | 12406.1 | 12113.3 | 11729.9 | 11144.1 | 10822.4 | 10710.6 | 10585.4 |
| 42.5° | 13429.2 | 13556.4 | 13458.1 | 13373.3 | 13144.1 | 12699.0 | 11941.8 | 11539.1 | 11377.3 | 11236.6 |
| 45°   | 14103.6 | 14198.0 | 14136.3 | 14167.1 | 14068.9 | 13637.3 | 12768.4 | 12307.9 | 12140.2 | 11968.8 |
| 47.5° | 14375.2 | 14475.4 | 14573.7 | 14756.7 | 14924.3 | 14606.4 | 13656.6 | 13140.2 | 12962.9 | 12787.6 |
| 50°   | 14344.4 | 14446.5 | 14731.7 | 15120.9 | 15641.1 | 15535.1 | 14593.0 | 14026.5 | 13862.7 | 13662.3 |
| 52.5° | 14097.8 | 14213.4 | 14579.5 | 15226.8 | 16055.3 | 16230.7 | 15546.7 | 14941.7 | 14787.5 | 14548.6 |
| 55°   | 13450.4 | 13519.8 | 14068.9 | 14986.0 | 16153.6 | 16716.2 | 16481.1 | 15916.6 | 15762.5 | 15429.1 |
| 57.5° | 12250.1 | 12350.3 | 13149.8 | 14336.7 | 15907.0 | 17045.7 | 17301.9 | 16941.6 | 16793.3 | 16313.5 |
| 60°   | 10683.6 | 10843.6 | 11758.8 | 13246.2 | 15278.9 | 17043.7 | 18047.6 | 17949.3 | 17826.0 | 17184.4 |
| 62.5° | 8911.1  | 9096.0  | 9976.5  | 11704.8 | 14180.6 | 16560.1 | 18513.8 | 18793.2 | 18729.6 | 17987.8 |
| 65°   | 6843.7  | 6970.9  | 7847.5  | 9710.7  | 12471.6 | 15521.6 | 18567.8 | 19369.3 | 19380.8 | 18598.6 |
| 67.5° | 4556.7  | 4922.8  | 5683.8  | 7286.8  | 10182.7 | 13824.2 | 18093.8 | 19463.7 | 19575.4 | 18808.6 |
| 70°   | 2223.4  | 2705.1  | 3450.7  | 4735.9  | 7286.8  | 11221.2 | 16854.9 | 18689.2 | 18937.7 | 18195.9 |
| 72.5° | 922.9   | 1079.0  | 1485.5  | 2337.1  | 4182.9  | 7572.0  | 14365.6 | 16589.0 | 17049.5 | 16122.8 |
| 75°   | 622.3   | 674.4   | 849.7   | 1198.4  | 1905.5  | 3734.0  | 10360.0 | 12369.5 | 13111.3 | 12176.8 |
| 77.5° | 479.8   | 512.5   | 618.5   | 838.1   | 1132.9  | 1412.3  | 5545.1  | 7454.5  | 7837.9  | 7256.0  |
| 80°   | 377.6   | 402.7   | 462.4   | 610.8   | 803.4   | 755.3   | 1890.1  | 3377.5  | 3599.1  | 3019.2  |
| 82.5° | 327.5   | 337.2   | 331.4   | 414.2   | 533.7   | 441.2   | 620.4   | 1246.6  | 1375.7  | 998.0   |
| 85°   | 237.0   | 264.0   | 275.5   | 256.3   | 283.2   | 223.5   | 254.3   | 441.2   | 485.5   | 433.5   |
| 87.5° | 96.3    | 142.6   | 175.3   | 165.7   | 104.0   | 63.6    | 79.0    | 129.1   | 148.4   | 161.8   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4067.3  | 0°    | 4067.3  | 4067.3  | 4067.3 | 4067.3 | 4067.3 | 4067.3 | 4067.3 | 4067.3 | 4067.3 | 4067.3 |
| 4069.2  | 2.5°  | 4071.2  | 4084.6  | 4094.3 | 4105.8 | 4113.5 | 4125.1 | 4148.2 | 4161.7 | 4163.6 | 4173.3 |
| 4100.1  | 5°    | 4107.8  | 4127.0  | 4148.2 | 4179.0 | 4213.7 | 4242.6 | 4286.9 | 4317.8 | 4329.3 | 4339.0 |
| 4175.2  | 7.5°  | 4186.8  | 4213.7  | 4252.3 | 4306.2 | 4356.3 | 4394.8 | 4448.8 | 4485.4 | 4522.0 | 4535.5 |
| 4294.7  | 10°   | 4304.3  | 4342.8  | 4398.7 | 4471.9 | 4525.9 | 4576.0 | 4631.8 | 4662.7 | 4699.3 | 4714.7 |
| 4437.2  | 12.5° | 4450.7  | 4491.2  | 4564.4 | 4666.5 | 4716.6 | 4751.3 | 4770.6 | 4762.8 | 4770.6 | 4784.0 |
| 4608.7  | 15°   | 4618.3  | 4662.7  | 4745.5 | 4855.3 | 4890.0 | 4859.2 | 4816.8 | 4778.3 | 4772.5 | 4776.3 |
| 4816.8  | 17.5° | 4816.8  | 4849.5  | 4945.9 | 5038.4 | 5013.3 | 4886.2 | 4793.7 | 4732.0 | 4701.2 | 4691.6 |
| 5082.7  | 20°   | 5094.2  | 5094.2  | 5173.2 | 5231.0 | 5063.4 | 4847.6 | 4703.1 | 4602.9 | 4539.3 | 4512.4 |
| 5444.9  | 22.5° | 5431.4  | 5400.6  | 5450.7 | 5410.2 | 5053.8 | 4739.7 | 4539.3 | 4365.9 | 4269.6 | 4231.1 |
| 5951.6  | 25°   | 5859.1  | 5822.5  | 5809.1 | 5558.6 | 4984.4 | 4568.2 | 4242.6 | 4032.6 | 3947.8 | 3926.6 |
| 6681.9  | 27.5° | 6504.6  | 6412.1  | 6236.8 | 5639.5 | 4857.3 | 4298.5 | 3895.8 | 3701.2 | 3653.1 | 3655.0 |
| 7620.2  | 30°   | 7363.9  | 7178.9  | 6749.3 | 5653.0 | 4649.2 | 3917.0 | 3541.3 | 3402.6 | 3379.5 | 3389.1 |
| 8408.2  | 32.5° | 8159.6  | 7984.3  | 7273.4 | 5591.3 | 4329.3 | 3543.2 | 3223.4 | 3130.9 | 3096.2 | 3107.8 |
| 9009.3  | 35°   | 8783.9  | 8735.7  | 7758.9 | 5504.6 | 3936.3 | 3192.6 | 2938.2 | 2859.2 | 2791.8 | 2776.4 |
| 9575.8  | 37.5° | 9373.5  | 9354.2  | 8123.0 | 5383.2 | 3547.1 | 2944.0 | 2709.0 | 2604.9 | 2506.7 | 2452.7 |
| 10202.0 | 40°   | 10020.9 | 10001.6 | 8361.9 | 5196.4 | 3202.2 | 2728.2 | 2502.8 | 2366.0 | 2244.6 | 2146.4 |
| 10911.0 | 42.5° | 10749.2 | 10635.5 | 8475.6 | 4928.5 | 2909.3 | 2545.2 | 2335.2 | 2150.2 | 1990.3 | 1899.7 |
| 11712.5 | 45°   | 11544.9 | 11288.6 | 8473.7 | 4587.5 | 2662.7 | 2377.6 | 2156.0 | 1894.0 | 1745.6 | 1660.8 |
| 12535.2 | 47.5° | 12388.8 | 11912.9 | 8369.7 | 4209.9 | 2423.8 | 2192.6 | 1878.5 | 1678.2 | 1579.9 | 1527.9 |
| 13429.2 | 50°   | 13259.7 | 12496.7 | 8192.4 | 3776.4 | 2179.1 | 1982.6 | 1705.1 | 1568.3 | 1493.2 | 1445.0 |
| 14315.5 | 52.5° | 14078.5 | 13026.5 | 7978.5 | 3285.1 | 1930.6 | 1778.4 | 1628.1 | 1522.1 | 1443.1 | 1389.2 |
| 15174.8 | 55°   | 14839.6 | 13483.2 | 7676.0 | 2782.2 | 1728.3 | 1641.6 | 1591.5 | 1502.8 | 1412.3 | 1348.7 |
| 16047.6 | 57.5° | 15515.8 | 13779.9 | 7153.9 | 2310.1 | 1583.8 | 1547.2 | 1552.9 | 1470.1 | 1366.0 | 1312.1 |
| 16906.9 | 60°   | 16078.4 | 13997.6 | 6381.3 | 1872.8 | 1466.2 | 1454.7 | 1493.2 | 1408.4 | 1287.0 | 1225.4 |
| 17633.3 | 62.5° | 16415.6 | 13993.7 | 5433.3 | 1533.7 | 1366.0 | 1369.9 | 1414.2 | 1331.4 | 1208.1 | 1150.2 |
| 18012.9 | 65°   | 16386.7 | 13650.8 | 4392.9 | 1312.1 | 1269.7 | 1273.6 | 1331.4 | 1246.6 | 1142.5 | 1107.9 |
| 17822.1 | 67.5° | 15806.8 | 12814.6 | 3369.8 | 1167.6 | 1163.7 | 1181.1 | 1248.5 | 1188.8 | 1102.1 | 1098.2 |
| 16685.4 | 70°   | 14236.5 | 11078.6 | 2427.7 | 1052.0 | 1053.9 | 1079.0 | 1167.6 | 1152.2 | 1080.9 | 1088.6 |
| 14028.4 | 72.5° | 11415.8 | 8446.7  | 1630.0 | 930.6  | 932.5  | 973.0  | 1090.5 | 1123.3 | 1059.7 | 1161.8 |
| 9953.4  | 75°   | 7602.8  | 5267.6  | 1048.1 | 801.5  | 803.4  | 855.5  | 1023.1 | 1067.4 | 1001.9 | 1158.0 |
| 5179.0  | 77.5° | 3653.1  | 2367.9  | 759.1  | 674.4  | 674.4  | 722.5  | 884.4  | 955.7  | 853.5  | 899.8  |
| 1664.7  | 80°   | 1262.0  | 890.1   | 597.3  | 543.3  | 531.8  | 564.5  | 745.6  | 828.5  | 736.0  | 678.2  |
| 543.3   | 82.5° | 497.1   | 462.4   | 479.8  | 422.0  | 383.4  | 404.6  | 579.9  | 684.0  | 541.4  | 489.4  |
| 306.3   | 85°   | 285.2   | 300.6   | 339.1  | 279.4  | 221.6  | 248.5  | 425.8  | 491.3  | 408.5  | 360.3  |
| 100.2   | 87.5° | 77.1    | 106.0   | 156.1  | 144.5  | 100.2  | 106.0  | 202.3  | 271.7  | 235.1  | 181.1  |
| 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°  
4067.3  
4171.3  
4337.0  
4537.4  
4722.4  
4787.9  
4789.8  
4705.0  
4506.6  
4225.3  
3930.5  
3660.8  
3421.8  
3123.2  
2788.0  
2454.6  
2156.0  
1905.5  
1657.0  
1516.3  
1427.7  
1366.0  
1323.7  
1277.4  
1198.4  
1132.9  
1105.9  
*1104.0*  
1086.7  
1177.2  
1167.6  
824.6  
635.8  
487.5  
368.0  
186.9  
0.0

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