

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: P953586

Luminaire Tested: **GALN-SB7A-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

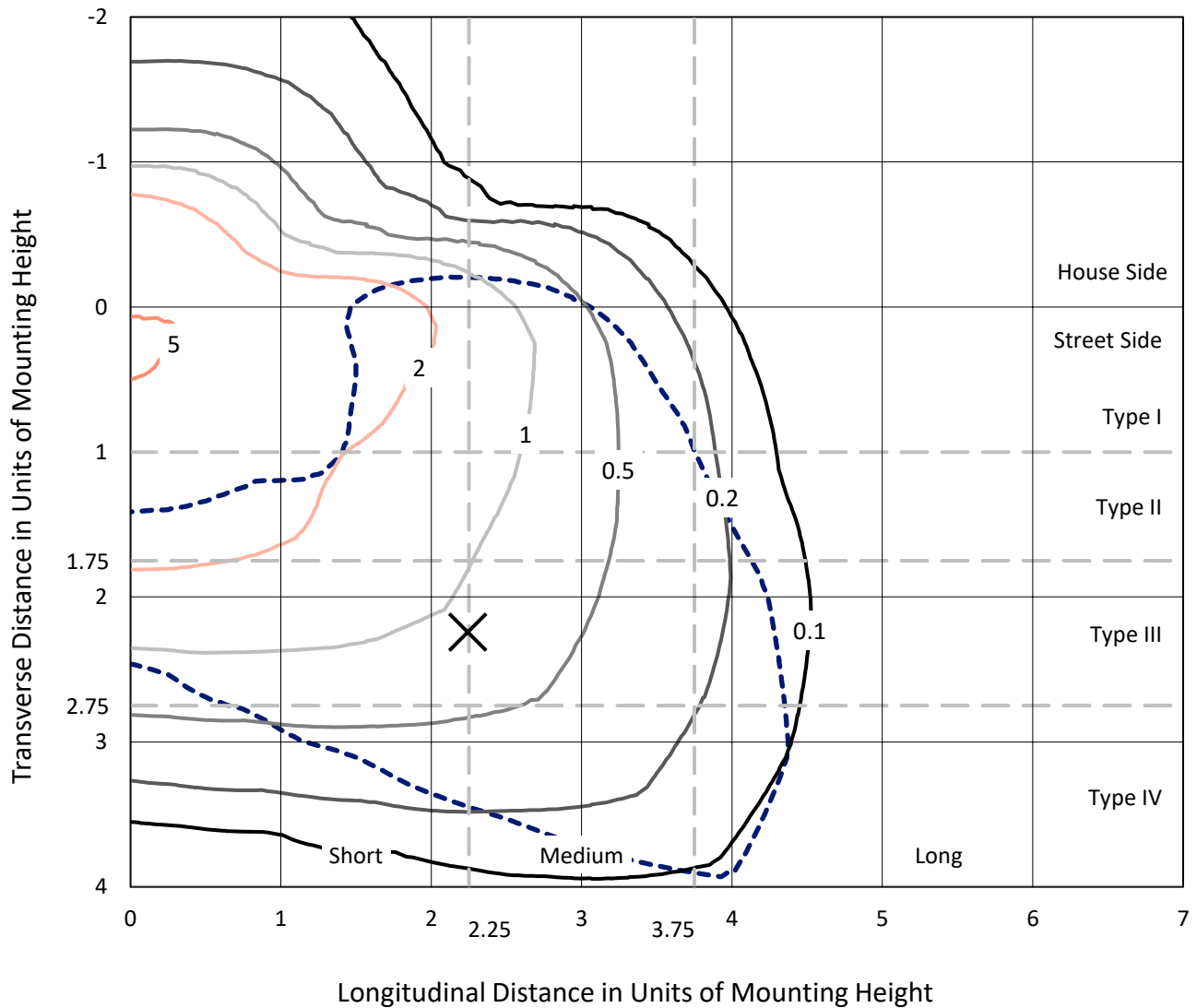
Lumens per Lamp: N/A  
Luminaire Lumens: 28609 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

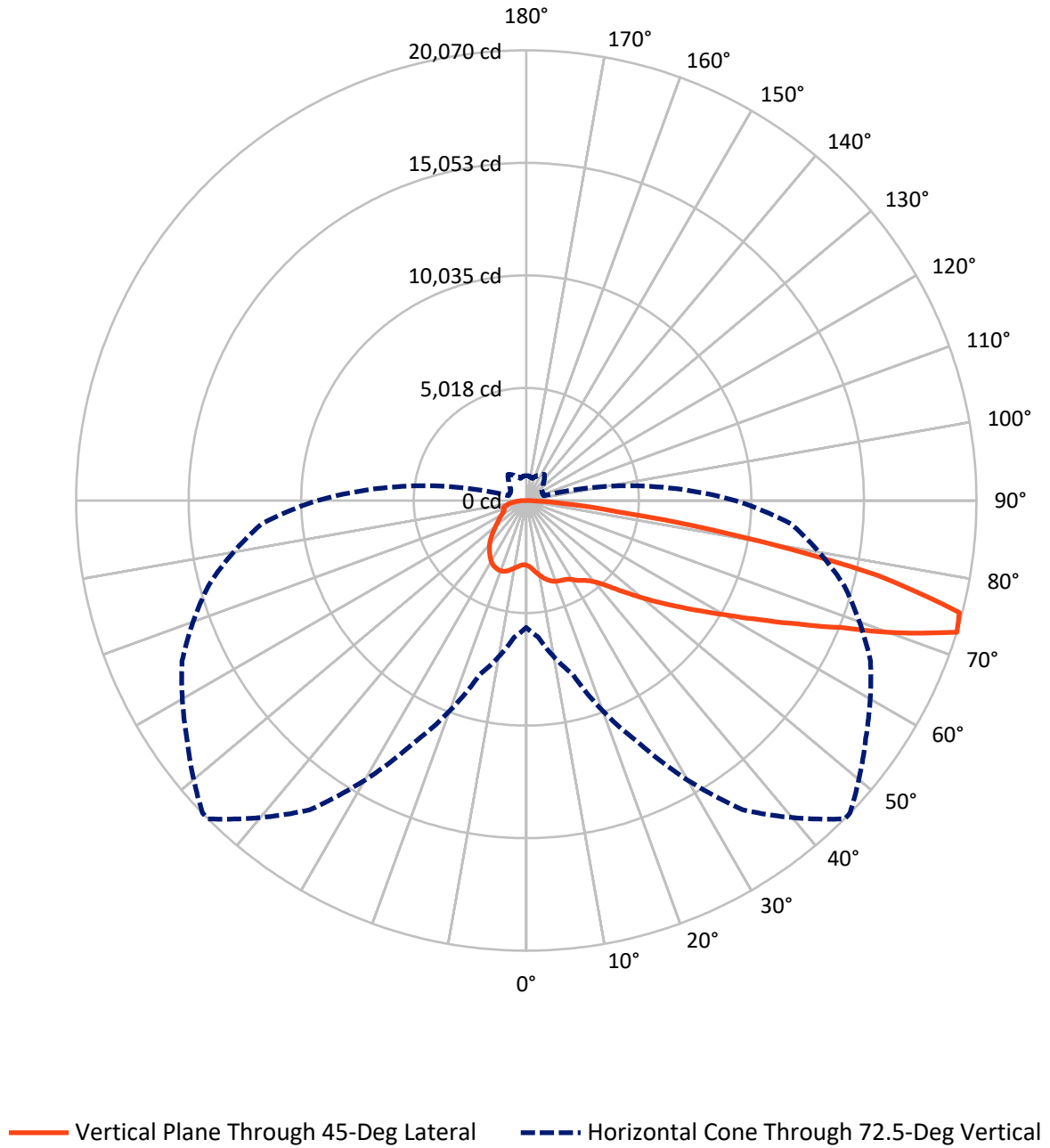
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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    | 6467.5   | 0.0    | 6467.5  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 22141.5  | 0.0    | 22141.5 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 28609.0  | 0.0    | 28609.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 293.7   | 1.0       |
| 10°-20°   | 979.4   | 3.4       |
| 20°-30°   | 1703.7  | 6.0       |
| 30°-40°   | 2442.4  | 8.5       |
| 40°-50°   | 3439.0  | 12.0      |
| 50°-60°   | 5267.5  | 18.4      |
| 60°-70°   | 7630.8  | 26.7      |
| 70°-80°   | 6093.6  | 21.3      |
| 80°-90°   | 758.9   | 2.7       |
| 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°    | 28609.0 | 100.0     |
| 0°-180°   | 28609.0 | 100.0     |



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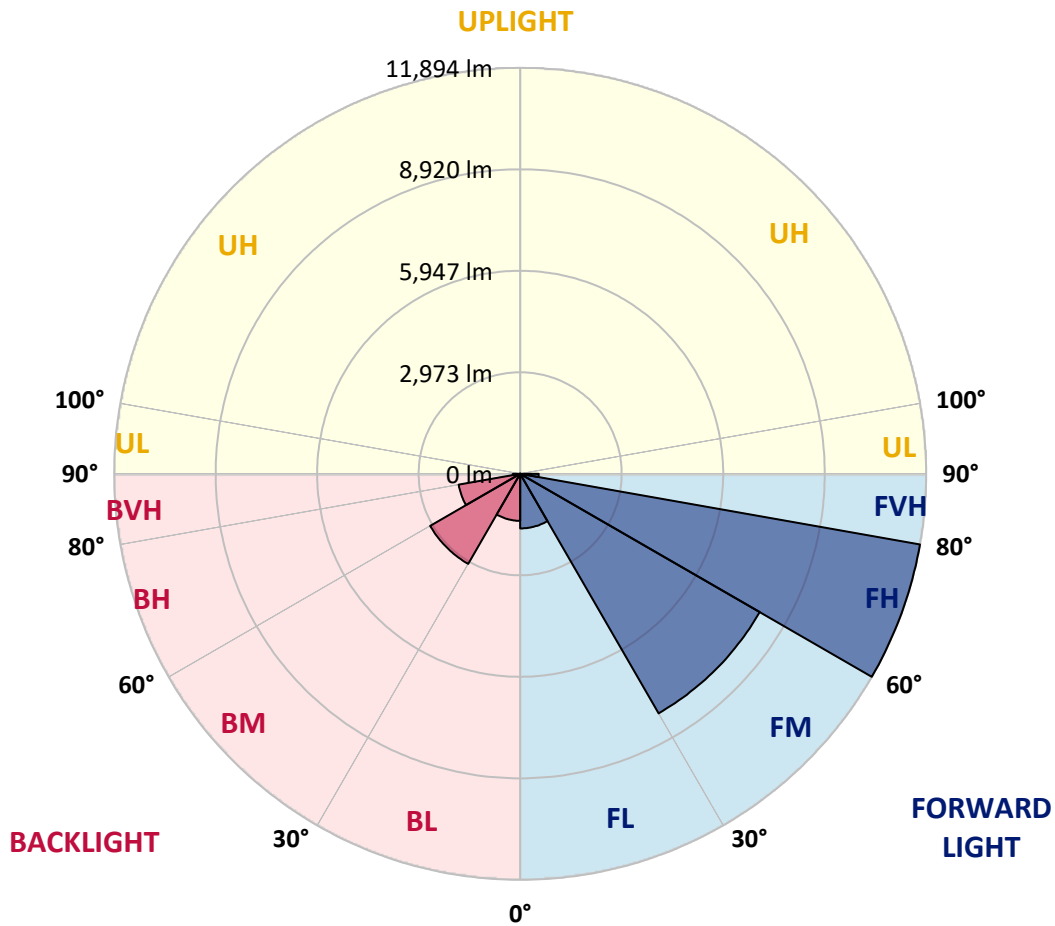
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1599.9  | 5.6       |                         |      |          |
| FM (30°-60°)   | 8103.6  | 28.3      |                         |      |          |
| FH (60°-80°)   | 11893.6 | 41.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 544.5   | 1.9       |                         |      | G4/750   |
| BL (0°-30°)    | 1377.0  | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 3045.3  | 10.6      | B3/5000                 |      |          |
| BH (60°-80°)   | 1830.8  | 6.4       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 214.5   | 0.7       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2886.1  | 2886.1  | 2886.1  | 2886.1  | 2886.1  | 2886.1  | 2886.1  | 2886.1  | 2886.1  | 2886.1  |
| 2.5°  | 2999.1  | 3018.7  | 3000.6  | 2984.1  | 2976.5  | 2956.9  | 2955.4  | 2943.4  | 2935.8  | 2914.7  |
| 5°    | 3208.6  | 3234.2  | 3204.1  | 3170.9  | 3140.8  | 3092.6  | 3086.5  | 3051.9  | 3012.7  | 2967.5  |
| 7.5°  | 3445.2  | 3467.8  | 3433.2  | 3383.4  | 3330.7  | 3250.8  | 3249.3  | 3186.0  | 3124.2  | 3047.4  |
| 10°   | 3651.7  | 3681.8  | 3635.1  | 3567.3  | 3501.0  | 3410.6  | 3400.0  | 3327.7  | 3249.3  | 3149.8  |
| 12.5° | 3834.1  | 3855.2  | 3809.9  | 3727.1  | 3650.2  | 3559.8  | 3546.2  | 3466.3  | 3378.9  | 3265.9  |
| 15°   | 3978.7  | 4005.9  | 3945.6  | 3856.7  | 3775.3  | 3686.4  | 3674.3  | 3602.0  | 3514.6  | 3395.5  |
| 17.5° | 4073.7  | 4096.3  | 4034.5  | 3935.0  | 3856.7  | 3782.8  | 3773.8  | 3713.5  | 3636.6  | 3516.1  |
| 20°   | 4109.9  | 4134.0  | 4069.2  | 3968.2  | 3895.8  | 3838.6  | 3834.1  | 3790.3  | 3737.6  | 3627.6  |
| 22.5° | 4146.0  | 4168.6  | 4084.2  | 3978.7  | 3915.4  | 3879.3  | 3877.8  | 3849.1  | 3828.0  | 3737.6  |
| 25°   | 4292.2  | 4298.2  | 4185.2  | 4033.0  | 3942.6  | 3910.9  | 3909.4  | 3907.9  | 3916.9  | 3846.1  |
| 27.5° | 4418.8  | 4417.3  | 4320.8  | 4177.7  | 4037.5  | 3971.2  | 3969.7  | 3984.8  | 4013.4  | 3954.6  |
| 30°   | 4604.2  | 4587.6  | 4473.1  | 4323.9  | 4195.8  | 4093.3  | 4084.2  | 4070.7  | 4093.3  | 4046.6  |
| 32.5° | 4997.5  | 4944.8  | 4759.4  | 4494.2  | 4326.9  | 4248.5  | 4236.5  | 4152.1  | 4161.1  | 4132.5  |
| 35°   | 5561.2  | 5491.9  | 5244.7  | 4816.7  | 4489.6  | 4378.1  | 4372.1  | 4265.1  | 4247.0  | 4221.4  |
| 37.5° | 6231.8  | 6145.9  | 5858.1  | 5283.9  | 4770.0  | 4528.8  | 4519.8  | 4423.3  | 4349.5  | 4322.4  |
| 40°   | 6905.5  | 6797.0  | 6558.9  | 5853.6  | 5182.9  | 4780.5  | 4751.9  | 4605.7  | 4521.3  | 4476.1  |
| 42.5° | 7559.6  | 7469.2  | 7265.7  | 6492.6  | 5692.3  | 5148.2  | 5084.9  | 4834.8  | 4771.5  | 4729.3  |
| 45°   | 8138.3  | 8056.9  | 7907.7  | 7175.3  | 6289.1  | 5648.6  | 5586.8  | 5178.4  | 5158.8  | 5158.8  |
| 47.5° | 8608.5  | 8590.5  | 8432.2  | 7871.6  | 6992.9  | 6218.3  | 6111.3  | 5656.1  | 5708.9  | 5790.3  |
| 50°   | 9130.0  | 9080.3  | 8911.5  | 8557.3  | 7820.3  | 6870.9  | 6783.4  | 6242.4  | 6439.8  | 6662.9  |
| 52.5° | 9609.3  | 9636.4  | 9448.0  | 9271.7  | 8754.7  | 7598.8  | 7445.1  | 6934.2  | 7360.7  | 7729.9  |
| 55°   | 10102.1 | 10103.6 | 10050.8 | 10026.7 | 9734.3  | 8403.6  | 8234.8  | 7766.1  | 8444.3  | 8902.4  |
| 57.5° | 10564.8 | 10567.8 | 10646.1 | 10858.6 | 10870.7 | 9331.9  | 9140.5  | 8787.9  | 9648.4  | 10115.6 |
| 60°   | 10977.7 | 10998.8 | 11212.8 | 11710.1 | 11869.9 | 10396.0 | 10215.1 | 9995.1  | 10893.3 | 11363.5 |
| 62.5° | 11116.3 | 11193.2 | 11669.5 | 12376.3 | 12857.0 | 11701.1 | 11523.3 | 11392.1 | 12201.5 | 12638.5 |
| 65°   | 10881.2 | 11057.6 | 11978.4 | 12926.4 | 13872.8 | 13251.9 | 13075.6 | 12932.4 | 13560.9 | 13972.3 |
| 67.5° | 10304.0 | 10531.6 | 11960.3 | 13503.6 | 15105.6 | 15117.7 | 14953.4 | 14617.3 | 15018.2 | 15176.5 |
| 70°   | 8783.4  | 9124.0  | 10906.9 | 13719.1 | 16520.8 | 17669.2 | 17511.0 | 16645.9 | 16472.6 | 15707.0 |
| 72.5° | 5659.2  | 6117.3  | 8031.3  | 11945.3 | 16835.8 | 20070.0 | 20061.0 | 18477.0 | 16932.2 | 14676.1 |
| 75°   | 2064.7  | 2345.0  | 3731.6  | 7497.8  | 14132.1 | 19947.9 | 20006.7 | 18163.5 | 15456.8 | 11336.4 |
| 77.5° | 752.0   | 822.9   | 1217.7  | 2881.6  | 8691.4  | 16005.4 | 16127.4 | 14520.9 | 11001.8 | 5689.3  |
| 80°   | 394.9   | 434.0   | 623.9   | 1118.3  | 3724.0  | 9505.3  | 9696.7  | 8629.6  | 5170.9  | 1713.6  |
| 82.5° | 218.5   | 236.6   | 349.6   | 607.4   | 1677.4  | 4064.6  | 4179.2  | 3409.1  | 1819.1  | 726.4   |
| 85°   | 117.6   | 125.1   | 164.3   | 331.6   | 819.9   | 1409.1  | 1440.8  | 1018.8  | 724.9   | 426.5   |
| 87.5° | 34.7    | 42.2    | 54.3    | 105.5   | 321.0   | 316.5   | 324.0   | 202.0   | 286.3   | 215.5   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2886.1  | 0°    | 2886.1  | 2886.1  | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 |
| 2908.7  | 2.5°  | 2899.7  | 2895.1  | 2878.6 | 2871.0 | 2862.0 | 2860.5 | 2868.0 | 2869.5 | 2871.0 | 2872.5 |
| 2941.9  | 5°    | 2926.8  | 2911.7  | 2896.6 | 2887.6 | 2890.6 | 2892.1 | 2907.2 | 2917.7 | 2925.3 | 2931.3 |
| 3003.6  | 7.5°  | 2979.5  | 2967.5  | 2941.9 | 2940.3 | 2944.9 | 2958.4 | 2978.0 | 3002.1 | 3015.7 | 3026.3 |
| 3083.5  | 10°   | 3057.9  | 3035.3  | 3005.2 | 3009.7 | 3018.7 | 3038.3 | 3079.0 | 3098.6 | 3121.2 | 3140.8 |
| 3181.5  | 12.5° | 3137.8  | 3118.2  | 3083.5 | 3086.5 | 3101.6 | 3136.3 | 3175.5 | 3199.6 | 3214.6 | 3229.7 |
| 3287.0  | 15°   | 3241.8  | 3207.1  | 3169.4 | 3169.4 | 3196.6 | 3234.2 | 3252.3 | 3271.9 | 3281.0 | 3297.5 |
| 3400.0  | 17.5° | 3348.8  | 3303.6  | 3253.8 | 3250.8 | 3284.0 | 3302.1 | 3312.6 | 3315.6 | 3318.6 | 3336.7 |
| 3510.0  | 20°   | 3455.8  | 3406.0  | 3335.2 | 3329.2 | 3336.7 | 3333.7 | 3332.2 | 3329.2 | 3333.7 | 3356.3 |
| 3623.1  | 22.5° | 3561.3  | 3504.0  | 3406.0 | 3378.9 | 3357.8 | 3329.2 | 3327.7 | 3326.2 | 3329.2 | 3351.8 |
| 3745.1  | 25°   | 3684.9  | 3615.5  | 3484.4 | 3403.0 | 3332.2 | 3293.0 | 3297.5 | 3299.0 | 3302.1 | 3320.1 |
| 3871.7  | 27.5° | 3819.0  | 3742.1  | 3556.7 | 3395.5 | 3267.4 | 3240.3 | 3232.7 | 3237.2 | 3247.8 | 3276.4 |
| 3998.3  | 30°   | 3953.1  | 3862.7  | 3623.1 | 3365.3 | 3186.0 | 3148.3 | 3124.2 | 3134.8 | 3167.9 | 3196.6 |
| 4108.3  | 32.5° | 4075.2  | 3984.8  | 3675.8 | 3299.0 | 3082.0 | 3023.2 | 2991.6 | 3005.2 | 3038.3 | 3048.9 |
| 4230.4  | 35°   | 4218.4  | 4115.9  | 3698.4 | 3193.5 | 2969.0 | 2878.6 | 2836.4 | 2816.8 | 2833.3 | 2822.8 |
| 4373.6  | 37.5° | 4378.1  | 4271.1  | 3695.4 | 3054.9 | 2836.4 | 2732.4 | 2673.6 | 2599.7 | 2565.1 | 2528.9 |
| 4584.6  | 40°   | 4614.7  | 4461.0  | 3659.2 | 2887.6 | 2672.1 | 2577.1 | 2471.6 | 2346.6 | 2268.2 | 2197.3 |
| 4925.2  | 42.5° | 4937.3  | 4724.7  | 3592.9 | 2703.7 | 2486.7 | 2397.8 | 2254.6 | 2108.4 | 1984.8 | 1867.3 |
| 5442.1  | 45°   | 5418.0  | 5069.9  | 3510.0 | 2507.8 | 2286.3 | 2198.9 | 2043.6 | 1879.4 | 1739.2 | 1588.5 |
| 6176.1  | 47.5° | 6111.3  | 5534.1  | 3431.7 | 2284.8 | 2075.3 | 1995.4 | 1855.2 | 1703.0 | 1537.2 | 1391.1 |
| 7237.1  | 50°   | 7063.8  | 6200.2  | 3359.3 | 2067.7 | 1867.3 | 1807.0 | 1695.5 | 1540.3 | 1373.0 | 1255.4 |
| 8480.4  | 52.5° | 8275.5  | 7106.0  | 3329.2 | 1858.3 | 1672.9 | 1650.3 | 1561.4 | 1416.7 | 1258.4 | 1159.0 |
| 9930.3  | 55°   | 9666.5  | 8189.6  | 3329.2 | 1657.8 | 1502.6 | 1510.1 | 1448.3 | 1314.2 | 1177.0 | 1088.1 |
| 11425.3 | 57.5° | 11086.2 | 9286.7  | 3268.9 | 1472.4 | 1357.9 | 1389.5 | 1350.4 | 1232.8 | 1109.2 | 1017.3 |
| 12997.2 | 60°   | 12394.4 | 10206.1 | 3024.7 | 1303.6 | 1229.8 | 1279.5 | 1253.9 | 1152.9 | 1002.2 | 925.4  |
| 14311.4 | 62.5° | 13399.6 | 10724.5 | 2554.5 | 1169.5 | 1124.3 | 1181.6 | 1168.0 | 1047.4 | 982.6  | 951.0  |
| 15390.5 | 65°   | 13903.0 | 10640.1 | 1953.2 | 1050.4 | 1035.4 | 1124.3 | 1095.7 | 1091.1 | 1039.9 | 1003.7 |
| 15741.6 | 67.5° | 13594.0 | 9913.7  | 1416.7 | 963.0  | 984.1  | 1071.5 | 1181.6 | 1199.6 | 1104.7 | 1033.9 |
| 14753.0 | 70°   | 12239.1 | 8599.5  | 1055.0 | 880.1  | 919.3  | 1073.1 | 1347.3 | 1255.4 | 1083.6 | 1000.7 |
| 11832.2 | 72.5° | 9310.8  | 6412.7  | 818.4  | 792.7  | 834.9  | 1080.6 | 1421.2 | 1229.8 | 1023.3 | 1106.2 |
| 7371.2  | 75°   | 5324.6  | 3520.6  | 657.1  | 685.7  | 729.4  | 1009.8 | 1383.5 | 1163.5 | 976.6  | 1015.8 |
| 2920.8  | 77.5° | 2030.1  | 1353.4  | 542.6  | 580.2  | 586.3  | 881.7  | 1323.2 | 1159.0 | 929.9  | 907.3  |
| 875.6   | 80°   | 703.8   | 529.0   | 449.1  | 461.2  | 453.6  | 783.7  | 1269.0 | 1008.2 | 761.1  | 681.2  |
| 361.7   | 82.5° | 287.9   | 263.7   | 355.7  | 340.6  | 322.5  | 608.9  | 1024.8 | 824.4  | 622.4  | 550.1  |
| 174.8   | 85°   | 125.1   | 167.3   | 235.1  | 206.5  | 186.9  | 422.0  | 821.4  | 697.8  | 526.0  | 453.6  |
| 57.3    | 87.5° | 25.6    | 63.3    | 99.5   | 93.4   | 96.5   | 281.8  | 583.2  | 495.8  | 372.3  | 278.8  |
| 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°  
2886.1  
2878.6  
2934.3  
3029.3  
3136.3  
3235.7  
3303.6  
3342.7  
3365.3  
3366.9  
3344.2  
3305.1  
3228.2  
3086.5  
2855.9  
2551.5  
2201.9  
1856.7  
1570.4  
1374.5  
1247.9  
1151.4  
1079.1  
1002.2  
913.3  
940.4  
991.7  
1021.8  
987.1  
1097.2  
1015.8  
827.4  
658.6  
544.1  
452.1  
218.5  
0.0

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