

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: P948924

Luminaire Tested: **GALN-SB3D-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948924  
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-SB3D-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

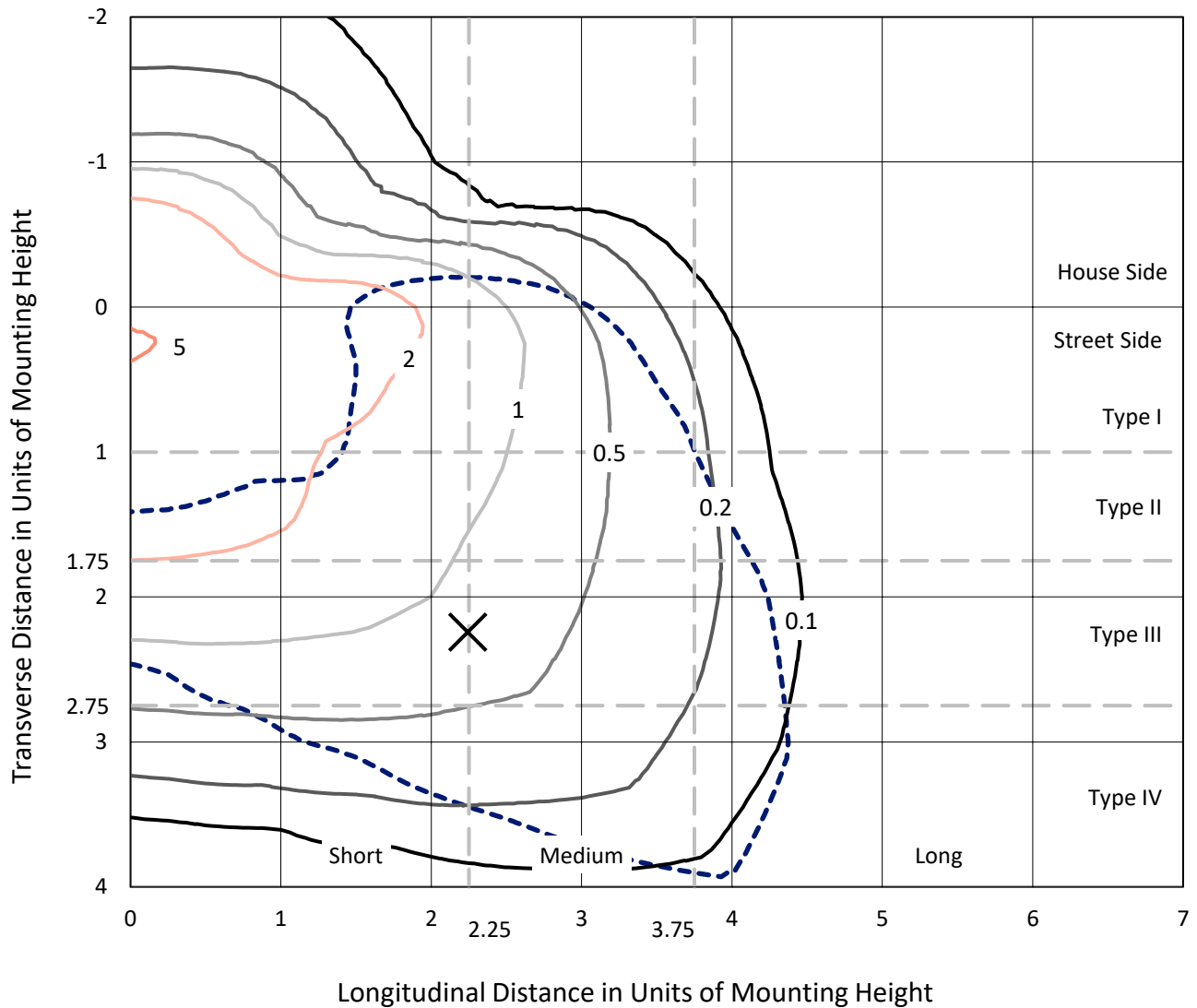
Lumens per Lamp: N/A  
Luminaire Lumens: 26498 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

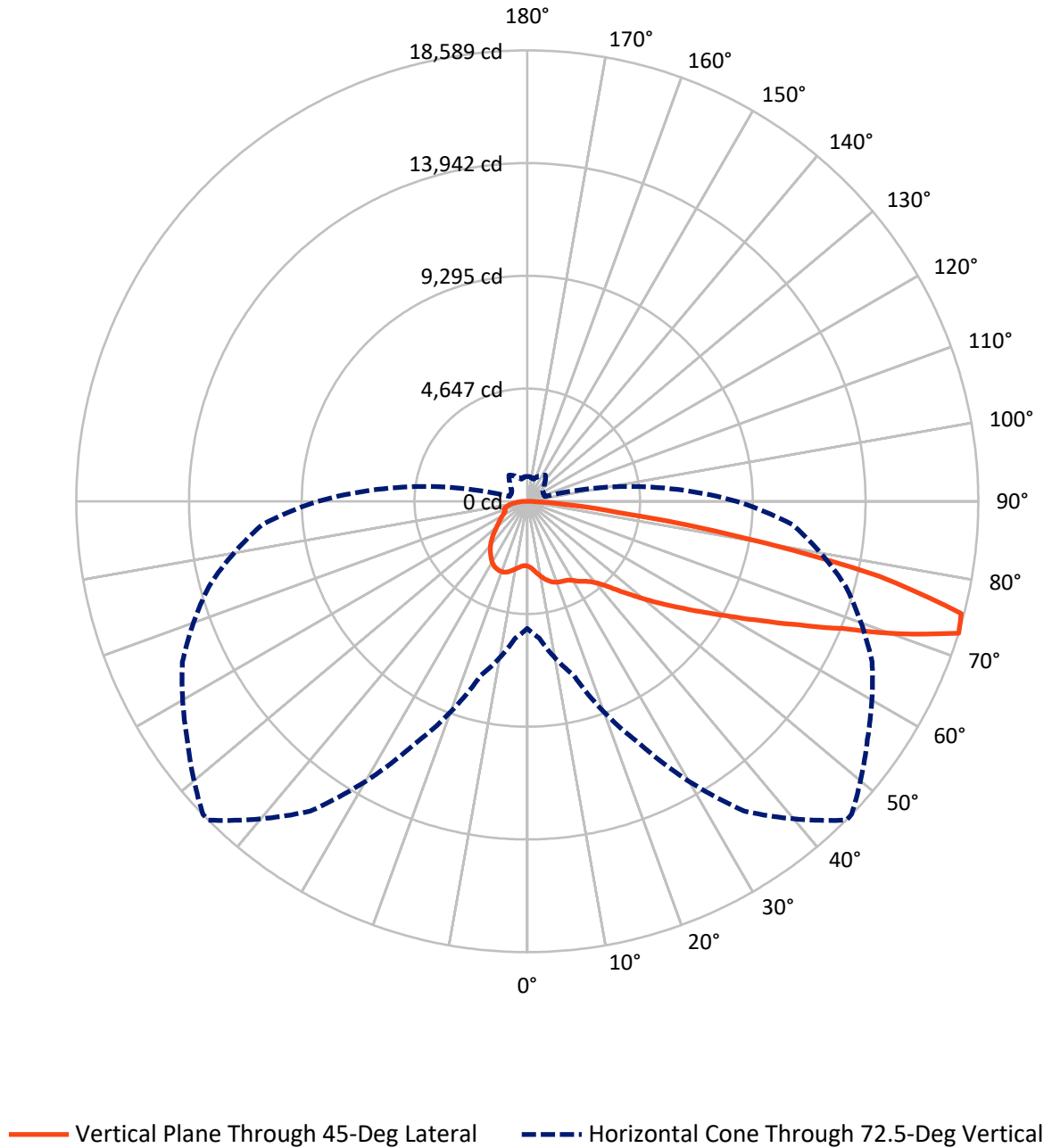
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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    | 5990.3   | 0.0    | 5990.3  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 20507.7  | 0.0    | 20507.7 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 26498.0  | 0.0    | 26498.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 272.1   | 1.0       |
| 10°-20°   | 907.1   | 3.4       |
| 20°-30°   | 1578.0  | 6.0       |
| 30°-40°   | 2262.1  | 8.5       |
| 40°-50°   | 3185.2  | 12.0      |
| 50°-60°   | 4878.8  | 18.4      |
| 60°-70°   | 7067.7  | 26.7      |
| 70°-80°   | 5644.0  | 21.3      |
| 80°-90°   | 702.9   | 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°    | 26498.0 | 100.0     |
| 0°-180°   | 26498.0 | 100.0     |



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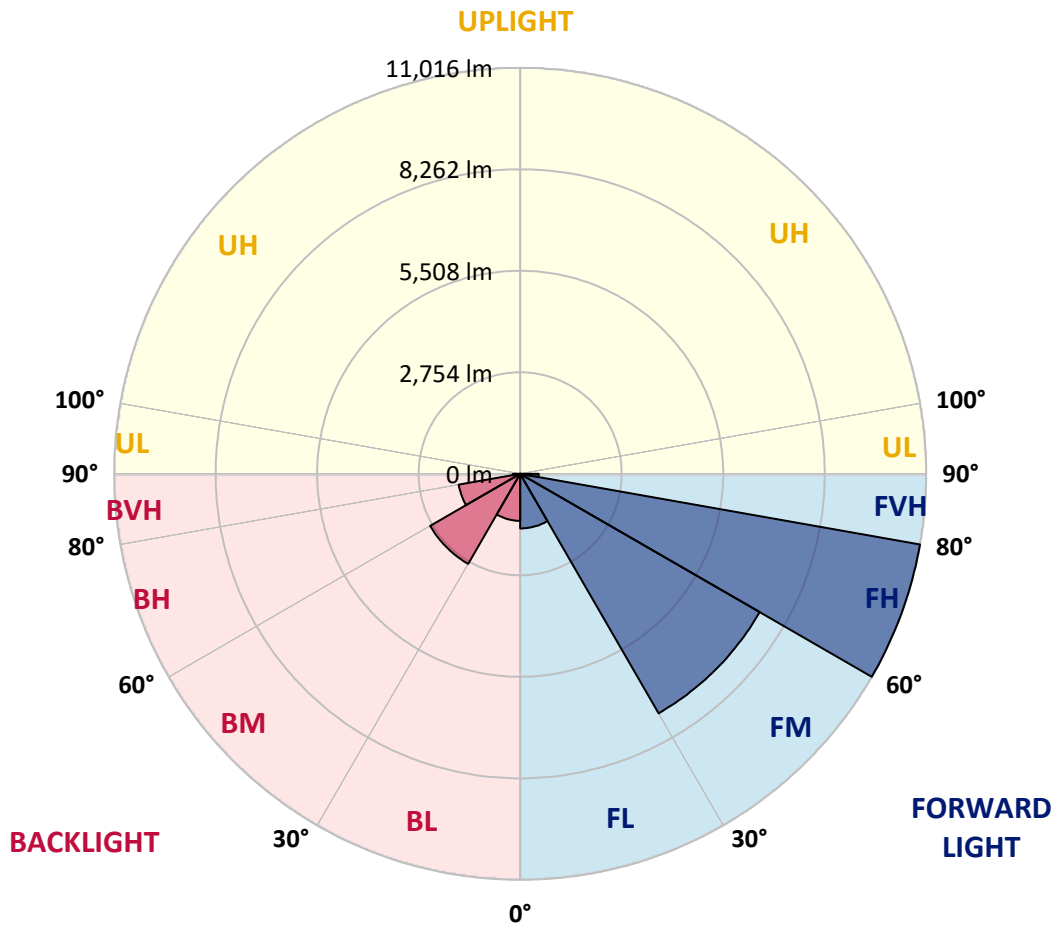
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1481.8  | 5.6       |                         |      |          |
| FM (30°-60°)   | 7505.6  | 28.3      |                         |      |          |
| FH (60°-80°)   | 11016.0 | 41.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 504.3   | 1.9       |                         |      | G4/750   |
| BL (0°-30°)    | 1275.4  | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2820.6  | 10.6      | B3/5000                 |      |          |
| BH (60°-80°)   | 1695.7  | 6.4       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 198.6   | 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°    | 2673.1  | 2673.1  | 2673.1  | 2673.1  | 2673.1  | 2673.1  | 2673.1  | 2673.1  | 2673.1  | 2673.1  |
| 2.5°  | 2777.8  | 2796.0  | 2779.2  | 2763.9  | 2756.9  | 2738.7  | 2737.3  | 2726.2  | 2719.2  | 2699.7  |
| 5°    | 2971.9  | 2995.6  | 2967.7  | 2937.0  | 2909.0  | 2864.4  | 2858.8  | 2826.7  | 2790.4  | 2748.5  |
| 7.5°  | 3191.0  | 3211.9  | 3179.8  | 3133.8  | 3084.9  | 3010.9  | 3009.5  | 2950.9  | 2893.7  | 2822.5  |
| 10°   | 3382.2  | 3410.2  | 3366.9  | 3304.1  | 3242.7  | 3158.9  | 3149.1  | 3082.1  | 3009.5  | 2917.4  |
| 12.5° | 3551.1  | 3570.7  | 3528.8  | 3452.0  | 3380.8  | 3297.1  | 3284.5  | 3210.6  | 3129.6  | 3024.9  |
| 15°   | 3685.2  | 3710.3  | 3654.4  | 3572.1  | 3496.7  | 3414.4  | 3403.2  | 3336.2  | 3255.2  | 3144.9  |
| 17.5° | 3773.1  | 3794.0  | 3736.8  | 3644.7  | 3572.1  | 3503.7  | 3495.3  | 3439.5  | 3368.3  | 3256.6  |
| 20°   | 3806.6  | 3828.9  | 3768.9  | 3675.4  | 3608.4  | 3555.3  | 3551.1  | 3510.7  | 3461.8  | 3359.9  |
| 22.5° | 3840.1  | 3861.0  | 3782.9  | 3685.2  | 3626.5  | 3593.0  | 3591.6  | 3565.1  | 3545.6  | 3461.8  |
| 25°   | 3975.5  | 3981.1  | 3876.4  | 3735.4  | 3651.7  | 3622.3  | 3620.9  | 3619.5  | 3627.9  | 3562.3  |
| 27.5° | 4092.8  | 4091.4  | 4002.0  | 3869.4  | 3739.6  | 3678.2  | 3676.8  | 3690.7  | 3717.3  | 3662.8  |
| 30°   | 4264.4  | 4249.1  | 4143.0  | 4004.8  | 3886.2  | 3791.2  | 3782.9  | 3770.3  | 3791.2  | 3748.0  |
| 32.5° | 4628.8  | 4579.9  | 4408.2  | 4162.5  | 4007.6  | 3935.0  | 3923.9  | 3845.7  | 3854.1  | 3827.5  |
| 35°   | 5150.8  | 5086.6  | 4857.7  | 4461.3  | 4158.4  | 4055.1  | 4049.5  | 3950.4  | 3933.6  | 3909.9  |
| 37.5° | 5772.0  | 5692.4  | 5425.8  | 4894.0  | 4418.0  | 4194.7  | 4186.3  | 4096.9  | 4028.5  | 4003.4  |
| 40°   | 6396.0  | 6295.5  | 6074.9  | 5421.6  | 4800.5  | 4427.8  | 4401.2  | 4265.8  | 4187.7  | 4145.8  |
| 42.5° | 7001.8  | 6918.0  | 6729.6  | 6013.5  | 5272.3  | 4768.4  | 4709.7  | 4478.0  | 4419.4  | 4380.3  |
| 45°   | 7537.8  | 7462.4  | 7324.2  | 6645.8  | 5825.1  | 5231.8  | 5174.6  | 4796.3  | 4778.1  | 4778.1  |
| 47.5° | 7973.3  | 7956.6  | 7810.0  | 7290.7  | 6476.9  | 5759.4  | 5660.3  | 5238.8  | 5287.6  | 5363.0  |
| 50°   | 8456.3  | 8410.2  | 8253.9  | 7925.9  | 7243.3  | 6363.9  | 6282.9  | 5781.8  | 5964.6  | 6171.2  |
| 52.5° | 8900.2  | 8925.3  | 8750.8  | 8587.5  | 8108.7  | 7038.1  | 6895.7  | 6422.5  | 6817.5  | 7159.5  |
| 55°   | 9356.7  | 9358.1  | 9309.2  | 9286.9  | 9016.1  | 7783.5  | 7627.2  | 7193.0  | 7821.2  | 8245.5  |
| 57.5° | 9785.2  | 9788.0  | 9860.6  | 10057.4 | 10068.6 | 8643.4  | 8466.1  | 8139.4  | 8936.5  | 9369.2  |
| 60°   | 10167.7 | 10187.2 | 10385.4 | 10846.1 | 10994.0 | 9628.9  | 9461.4  | 9257.6  | 10089.5 | 10525.0 |
| 62.5° | 10296.1 | 10367.3 | 10808.4 | 11463.1 | 11908.4 | 10837.7 | 10673.0 | 10551.5 | 11301.1 | 11705.9 |
| 65°   | 10078.3 | 10241.7 | 11094.5 | 11972.6 | 12849.2 | 12274.1 | 12110.8 | 11978.1 | 12560.2 | 12941.3 |
| 67.5° | 9543.7  | 9754.5  | 11077.8 | 12507.2 | 13991.0 | 14002.2 | 13850.0 | 13538.8 | 13910.1 | 14056.6 |
| 70°   | 8135.3  | 8450.7  | 10102.1 | 12706.8 | 15301.8 | 16365.4 | 16218.9 | 15417.6 | 15257.1 | 14548.0 |
| 72.5° | 5241.6  | 5665.9  | 7438.7  | 11063.8 | 15593.5 | 18589.1 | 18580.7 | 17113.6 | 15682.8 | 13593.2 |
| 75°   | 1912.4  | 2172.0  | 3456.2  | 6944.6  | 13089.3 | 18476.0 | 18530.5 | 16823.3 | 14316.3 | 10499.9 |
| 77.5° | 696.5   | 762.2   | 1127.9  | 2668.9  | 8050.1  | 14824.4 | 14937.4 | 13449.4 | 10190.0 | 5269.5  |
| 80°   | 365.7   | 402.0   | 577.9   | 1035.8  | 3449.2  | 8803.9  | 8981.2  | 7992.9  | 4789.3  | 1587.1  |
| 82.5° | 202.4   | 219.2   | 323.8   | 562.5   | 1553.6  | 3764.7  | 3870.8  | 3157.5  | 1684.8  | 672.8   |
| 85°   | 108.9   | 115.9   | 152.2   | 307.1   | 759.4   | 1305.2  | 1334.5  | 943.6   | 671.4   | 395.0   |
| 87.5° | 32.1    | 39.1    | 50.3    | 97.7    | 297.3   | 293.1   | 300.1   | 187.0   | 265.2   | 199.6   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2673.1  | 0°    | 2673.1  | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 |
| 2694.1  | 2.5°  | 2685.7  | 2681.5 | 2666.2 | 2659.2 | 2650.8 | 2649.4 | 2656.4 | 2657.8 | 2659.2 | 2660.6 |
| 2724.8  | 5°    | 2710.8  | 2696.9 | 2682.9 | 2674.5 | 2677.3 | 2678.7 | 2692.7 | 2702.4 | 2709.4 | 2715.0 |
| 2782.0  | 7.5°  | 2759.7  | 2748.5 | 2724.8 | 2723.4 | 2727.6 | 2740.1 | 2758.3 | 2780.6 | 2793.2 | 2803.0 |
| 2856.0  | 10°   | 2832.3  | 2811.3 | 2783.4 | 2787.6 | 2796.0 | 2814.1 | 2851.8 | 2870.0 | 2890.9 | 2909.0 |
| 2946.7  | 12.5° | 2906.2  | 2888.1 | 2856.0 | 2858.8 | 2872.7 | 2904.9 | 2941.1 | 2963.5 | 2977.4 | 2991.4 |
| 3044.4  | 15°   | 3002.6  | 2970.5 | 2935.6 | 2935.6 | 2960.7 | 2995.6 | 3012.3 | 3030.5 | 3038.9 | 3054.2 |
| 3149.1  | 17.5° | 3101.7  | 3059.8 | 3013.7 | 3010.9 | 3041.6 | 3058.4 | 3068.2 | 3071.0 | 3073.8 | 3090.5 |
| 3251.0  | 20°   | 3200.8  | 3154.7 | 3089.1 | 3083.5 | 3090.5 | 3087.7 | 3086.3 | 3083.5 | 3087.7 | 3108.7 |
| 3355.7  | 22.5° | 3298.5  | 3245.4 | 3154.7 | 3129.6 | 3110.0 | 3083.5 | 3082.1 | 3080.7 | 3083.5 | 3104.5 |
| 3468.8  | 25°   | 3413.0  | 3348.7 | 3227.3 | 3151.9 | 3086.3 | 3050.0 | 3054.2 | 3055.6 | 3058.4 | 3075.1 |
| 3586.0  | 27.5° | 3537.2  | 3466.0 | 3294.3 | 3144.9 | 3026.3 | 3001.2 | 2994.2 | 2998.4 | 3008.1 | 3034.7 |
| 3703.3  | 30°   | 3661.4  | 3577.7 | 3355.7 | 3117.0 | 2950.9 | 2916.0 | 2893.7 | 2903.5 | 2934.2 | 2960.7 |
| 3805.2  | 32.5° | 3774.5  | 3690.7 | 3404.6 | 3055.6 | 2854.6 | 2800.2 | 2770.8 | 2783.4 | 2814.1 | 2823.9 |
| 3918.3  | 35°   | 3907.1  | 3812.2 | 3425.5 | 2957.9 | 2749.9 | 2666.2 | 2627.1 | 2608.9 | 2624.3 | 2614.5 |
| 4050.9  | 37.5° | 4055.1  | 3956.0 | 3422.7 | 2829.5 | 2627.1 | 2530.8 | 2476.3 | 2407.9 | 2375.8 | 2342.3 |
| 4246.3  | 40°   | 4274.2  | 4131.8 | 3389.2 | 2674.5 | 2474.9 | 2387.0 | 2289.3 | 2173.4 | 2100.8 | 2035.2 |
| 4561.8  | 42.5° | 4572.9  | 4376.1 | 3327.8 | 2504.2 | 2303.2 | 2220.9 | 2088.3 | 1952.9 | 1838.4 | 1729.5 |
| 5040.6  | 45°   | 5018.2  | 4695.8 | 3251.0 | 2322.8 | 2117.6 | 2036.6 | 1892.8 | 1740.7 | 1610.9 | 1471.3 |
| 5720.4  | 47.5° | 5660.3  | 5125.7 | 3178.4 | 2116.2 | 1922.1 | 1848.2 | 1718.3 | 1577.4 | 1423.8 | 1288.4 |
| 6703.1  | 50°   | 6542.5  | 5742.7 | 3111.4 | 1915.2 | 1729.5 | 1673.7 | 1570.4 | 1426.6 | 1271.7 | 1162.8 |
| 7854.7  | 52.5° | 7664.8  | 6581.6 | 3083.5 | 1721.1 | 1549.4 | 1528.5 | 1446.1 | 1312.1 | 1165.6 | 1073.4 |
| 9197.5  | 55°   | 8953.2  | 7585.3 | 3083.5 | 1535.5 | 1391.7 | 1398.7 | 1341.5 | 1217.2 | 1090.2 | 1007.8 |
| 10582.3 | 57.5° | 10268.2 | 8601.5 | 3027.7 | 1363.8 | 1257.7 | 1287.0 | 1250.7 | 1141.8 | 1027.4 | 942.2  |
| 12038.2 | 60°   | 11479.8 | 9453.0 | 2801.6 | 1207.4 | 1139.0 | 1185.1 | 1161.4 | 1067.9 | 928.3  | 857.1  |
| 13255.4 | 62.5° | 12410.9 | 9933.2 | 2366.0 | 1083.2 | 1041.3 | 1094.4 | 1081.8 | 970.1  | 910.1  | 880.8  |
| 14254.8 | 65°   | 12877.1 | 9855.0 | 1809.1 | 972.9  | 959.0  | 1041.3 | 1014.8 | 1010.6 | 963.2  | 929.7  |
| 14580.1 | 67.5° | 12590.9 | 9182.2 | 1312.1 | 892.0  | 911.5  | 992.5  | 1094.4 | 1111.1 | 1023.2 | 957.6  |
| 13664.4 | 70°   | 11336.0 | 7965.0 | 977.1  | 815.2  | 851.5  | 993.9  | 1247.9 | 1162.8 | 1003.6 | 926.9  |
| 10959.1 | 72.5° | 8623.8  | 5939.5 | 758.0  | 734.2  | 773.3  | 1000.9 | 1316.3 | 1139.0 | 947.8  | 1024.6 |
| 6827.3  | 75°   | 4931.7  | 3260.8 | 608.6  | 635.1  | 675.6  | 935.2  | 1281.4 | 1077.6 | 904.5  | 940.8  |
| 2705.2  | 77.5° | 1880.3  | 1253.5 | 502.5  | 537.4  | 543.0  | 816.6  | 1225.6 | 1073.4 | 861.3  | 840.3  |
| 811.0   | 80°   | 651.9   | 490.0  | 416.0  | 427.1  | 420.2  | 725.9  | 1175.3 | 933.9  | 704.9  | 630.9  |
| 335.0   | 82.5° | 266.6   | 244.3  | 329.4  | 315.5  | 298.7  | 563.9  | 949.2  | 763.6  | 576.5  | 509.5  |
| 161.9   | 85°   | 115.9   | 154.9  | 217.8  | 191.2  | 173.1  | 390.8  | 760.8  | 646.3  | 487.2  | 420.2  |
| 53.0    | 87.5° | 23.7    | 58.6   | 92.1   | 86.5   | 89.3   | 261.0  | 540.2  | 459.2  | 344.8  | 258.2  |
| 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°  
2673.1  
2666.2  
2717.8  
2805.7  
2904.9  
2997.0  
3059.8  
3096.1  
3117.0  
3118.4  
3097.5  
3061.2  
2990.0  
2858.8  
2645.2  
2363.2  
2039.4  
1719.7  
1454.5  
1273.1  
1155.8  
1066.5  
999.5  
928.3  
845.9  
871.0  
918.5  
946.4  
914.3  
*1016.2*  
940.8  
766.3  
610.0  
503.9  
418.8  
202.4  
0.0

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