

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: P950726

Luminaire Tested: **GALN-SB5A-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950726  
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-SB5A-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

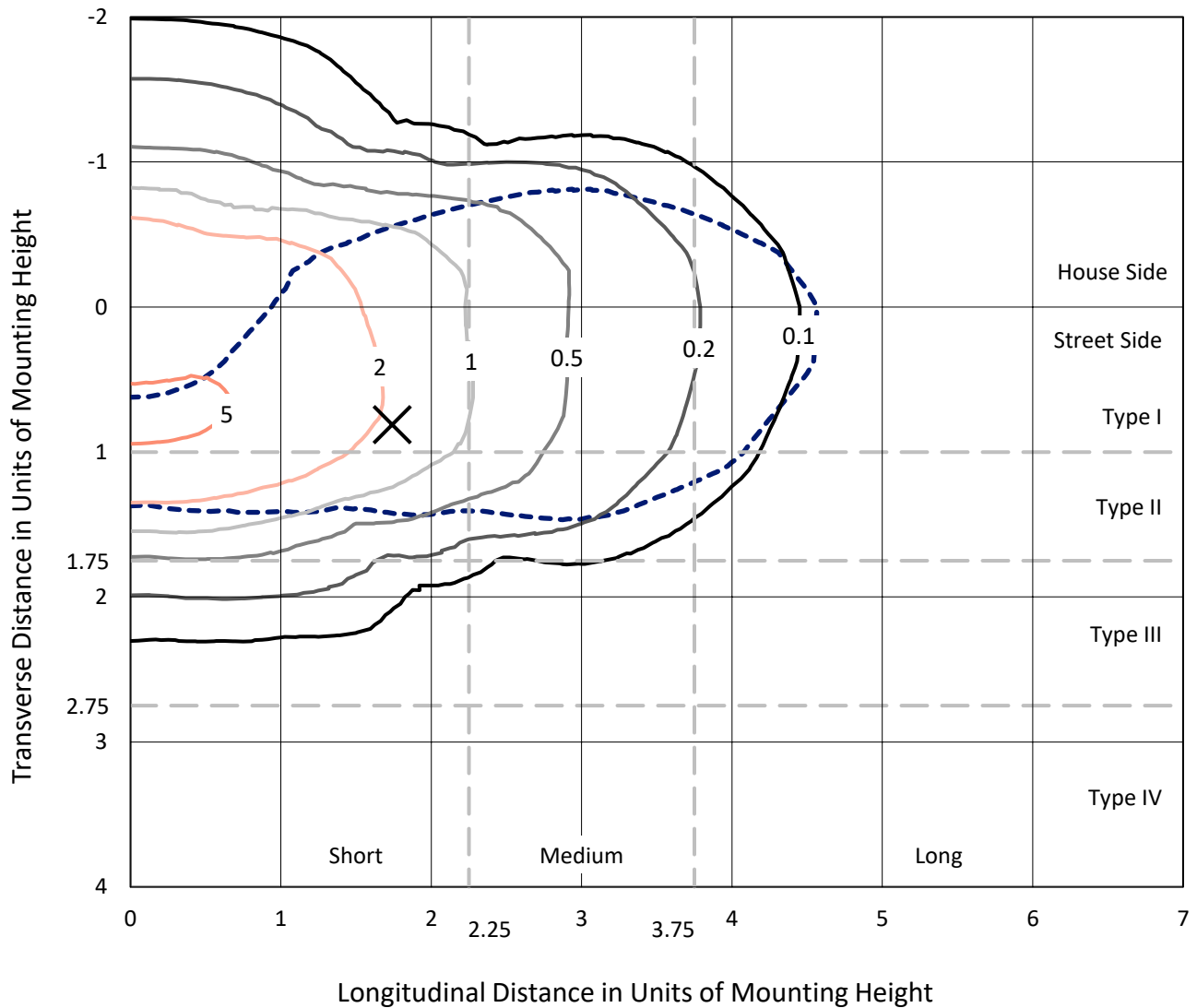
Lumens per Lamp: N/A  
Luminaire Lumens: 20634 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

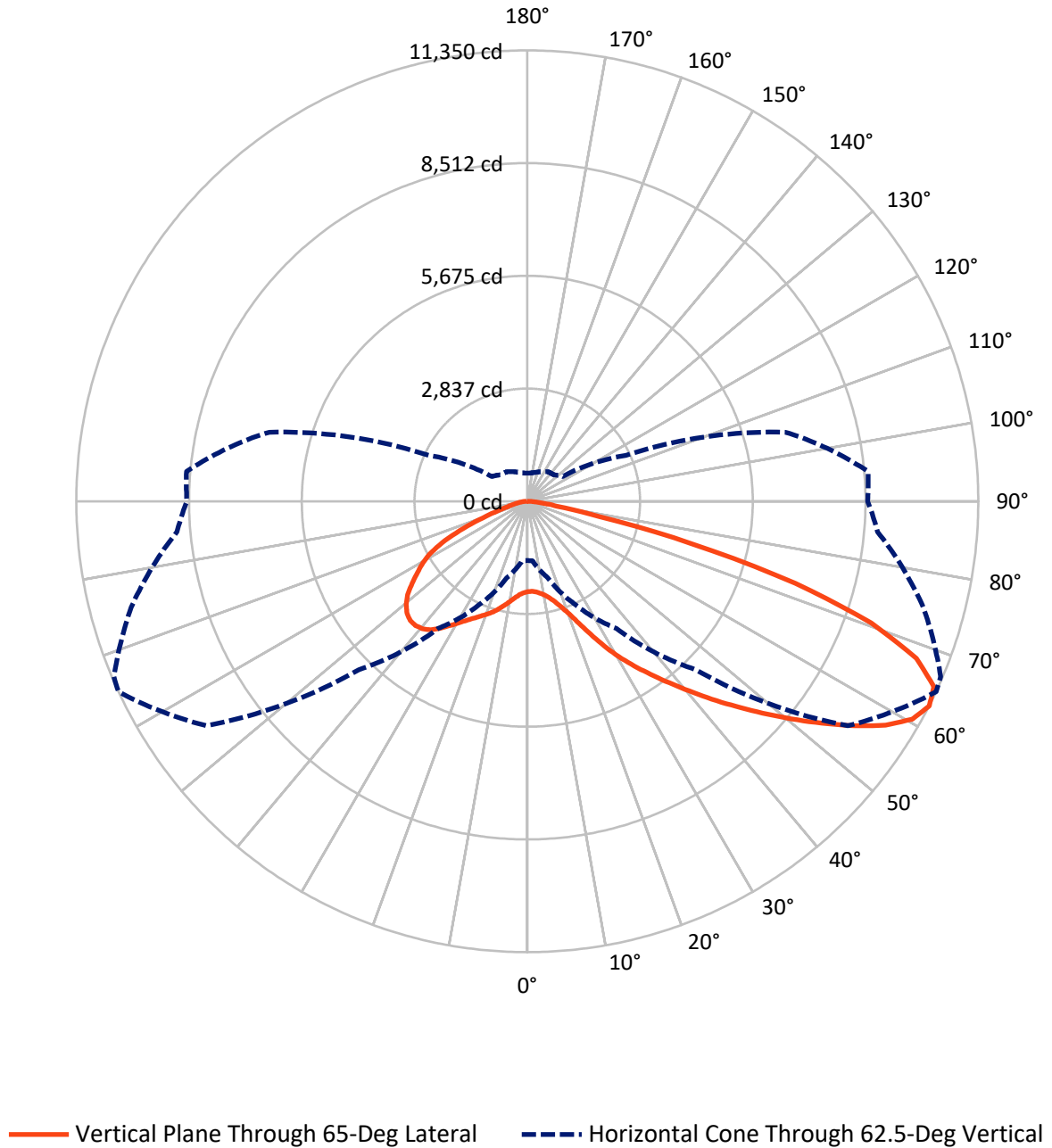
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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    | 6511.2   | 0.0    | 6511.2  |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 14122.8  | 0.0    | 14122.8 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 20634.0  | 0.0    | 20634.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 226.7   | 1.1       |
| 10°-20°   | 768.7   | 3.7       |
| 20°-30°   | 1558.7  | 7.6       |
| 30°-40°   | 2697.3  | 13.1      |
| 40°-50°   | 4081.8  | 19.8      |
| 50°-60°   | 4785.7  | 23.2      |
| 60°-70°   | 4012.2  | 19.4      |
| 70°-80°   | 2215.1  | 10.7      |
| 80°-90°   | 287.7   | 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°    | 20634.0 | 100.0     |
| 0°-180°   | 20634.0 | 100.0     |



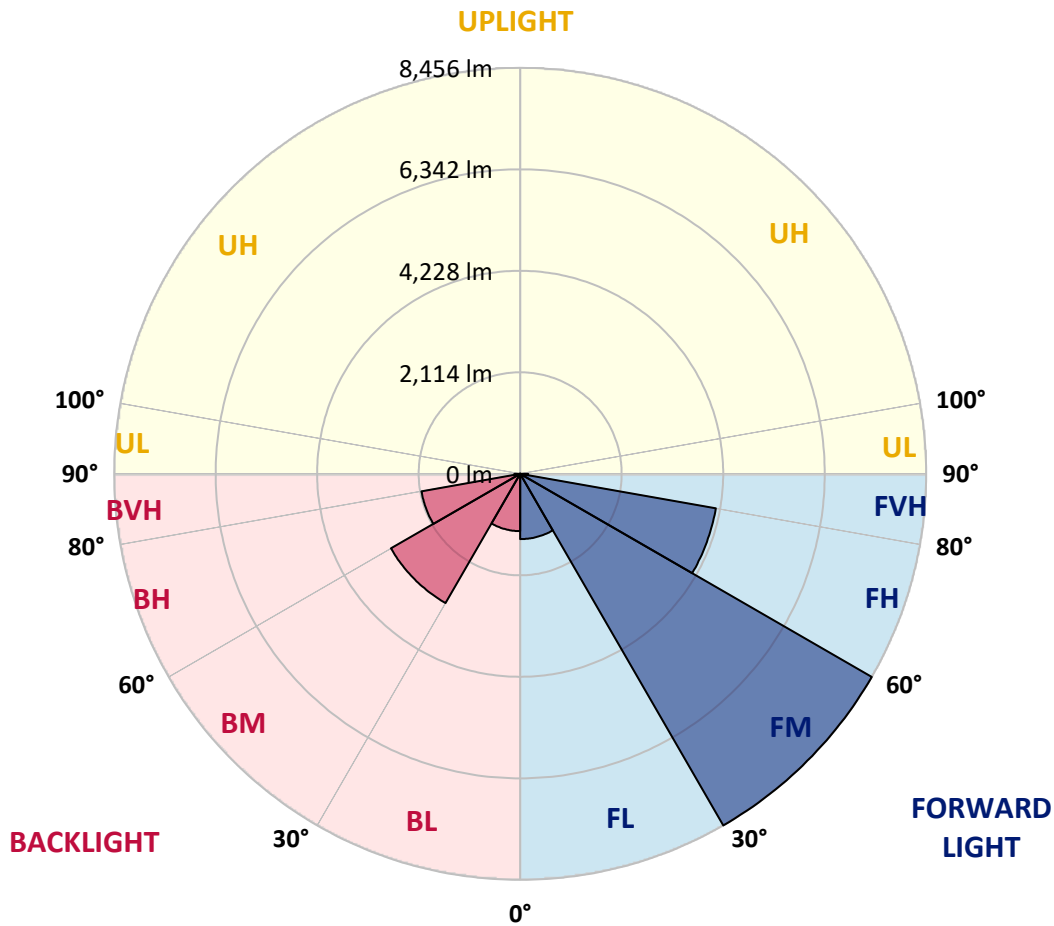
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1360.1 | 6.6       |                         |      |         |
| FM (30°-60°)   | 8456.5 | 41.0      |                         |      |         |
| FH (60°-80°)   | 4138.6 | 20.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 167.7  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 1194.1 | 5.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3108.4 | 15.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2088.7 | 10.1      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 120.0  | 0.6       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 67°     | 75°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2273.8 | 2273.8 | 2273.8 | 2273.8 | 2273.8 | 2273.8  | 2273.8  | 2273.8  | 2273.8  | 2273.8  |
| 2.5°  | 2258.8 | 2252.4 | 2257.7 | 2257.7 | 2259.9 | 2258.8  | 2266.3  | 2268.4  | 2271.6  | 2278.1  |
| 5°    | 2236.3 | 2235.2 | 2244.9 | 2253.4 | 2262.0 | 2269.5  | 2279.1  | 2293.0  | 2295.2  | 2302.7  |
| 7.5°  | 2228.8 | 2222.4 | 2237.4 | 2248.1 | 2268.4 | 2286.6  | 2312.3  | 2335.9  | 2345.5  | 2348.7  |
| 10°   | 2286.6 | 2275.9 | 2289.8 | 2296.3 | 2313.4 | 2331.6  | 2361.6  | 2399.0  | 2409.7  | 2422.6  |
| 12.5° | 2385.1 | 2373.3 | 2393.7 | 2403.3 | 2419.4 | 2435.4  | 2455.8  | 2492.2  | 2497.5  | 2521.1  |
| 15°   | 2520.0 | 2506.1 | 2518.9 | 2530.7 | 2557.5 | 2572.5  | 2592.8  | 2628.1  | 2628.1  | 2646.3  |
| 17.5° | 2703.1 | 2684.9 | 2694.5 | 2698.8 | 2715.9 | 2738.4  | 2772.6  | 2803.7  | 2819.7  | 2813.3  |
| 20°   | 2976.0 | 2953.6 | 2953.6 | 2932.1 | 2925.7 | 2943.9  | 2988.9  | 3031.7  | 3048.8  | 3015.6  |
| 22.5° | 3386.0 | 3353.9 | 3335.7 | 3262.9 | 3234.0 | 3236.2  | 3281.1  | 3333.6  | 3347.5  | 3288.6  |
| 25°   | 3907.4 | 3857.1 | 3832.4 | 3725.4 | 3660.1 | 3603.4  | 3638.7  | 3706.1  | 3725.4  | 3652.6  |
| 27.5° | 4428.7 | 4431.9 | 4408.4 | 4279.9 | 4171.8 | 4068.0  | 4049.8  | 4120.4  | 4140.8  | 4058.3  |
| 30°   | 5159.9 | 5083.9 | 5038.9 | 4884.8 | 4730.6 | 4585.0  | 4510.1  | 4539.0  | 4544.3  | 4445.9  |
| 32.5° | 5790.4 | 5771.2 | 5674.8 | 5539.9 | 5341.9 | 5113.9  | 4988.6  | 4942.6  | 4934.0  | 4793.8  |
| 35°   | 6508.7 | 6498.0 | 6396.3 | 6235.8 | 6021.7 | 5704.8  | 5478.9  | 5347.2  | 5336.5  | 5139.6  |
| 37.5° | 7238.8 | 7238.8 | 7139.3 | 6963.7 | 6742.1 | 6346.0  | 6002.4  | 5793.6  | 5759.4  | 5502.5  |
| 40°   | 7821.2 | 7785.9 | 7804.1 | 7730.2 | 7476.5 | 7055.8  | 6583.7  | 6280.7  | 6234.7  | 5926.4  |
| 42.5° | 8152.0 | 8140.2 | 8249.4 | 8331.8 | 8228.0 | 7891.8  | 7223.8  | 6808.5  | 6744.3  | 6393.1  |
| 45°   | 8225.8 | 8213.0 | 8407.8 | 8709.7 | 8855.3 | 8717.2  | 7919.7  | 7364.1  | 7285.9  | 6881.3  |
| 47.5° | 8055.6 | 8029.9 | 8315.8 | 8792.2 | 9258.9 | 9501.9  | 8673.3  | 7966.8  | 7853.3  | 7356.6  |
| 50°   | 7543.9 | 7519.3 | 7951.8 | 8584.5 | 9394.9 | 10035.0 | 9491.2  | 8605.9  | 8432.5  | 7866.2  |
| 52.5° | 6431.7 | 6443.4 | 7121.1 | 7990.3 | 9216.1 | 10366.9 | 10195.6 | 9279.2  | 9070.5  | 8387.5  |
| 55°   | 5010.0 | 5035.7 | 5868.6 | 6825.6 | 8501.0 | 10316.6 | 10676.3 | 9972.9  | 9765.3  | 8877.8  |
| 57.5° | 3587.3 | 3700.8 | 4481.2 | 5428.6 | 7127.5 | 9519.0  | 10781.2 | 10632.4 | 10431.1 | 9413.1  |
| 60°   | 2325.2 | 2345.5 | 3148.4 | 4103.3 | 5427.5 | 8101.7  | 10568.1 | 11132.3 | 10974.9 | 9959.0  |
| 62.5° | 1490.2 | 1504.1 | 1993.3 | 2870.1 | 3906.3 | 5993.8  | 9850.9  | 11349.6 | 11301.4 | 10319.8 |
| 65°   | 1095.1 | 1084.4 | 1339.2 | 1897.0 | 2631.3 | 3696.5  | 8458.2  | 11244.7 | 11340.0 | 10545.7 |
| 67.5° | 914.2  | 899.2  | 1024.5 | 1313.5 | 1938.7 | 2099.3  | 6258.2  | 10562.8 | 10911.8 | 10520.0 |
| 70°   | 832.9  | 820.0  | 896.0  | 975.2  | 1512.6 | 1405.6  | 3154.8  | 9182.9  | 9720.3  | 10227.7 |
| 72.5° | 705.5  | 683.0  | 786.8  | 866.0  | 1176.5 | 1078.0  | 1303.9  | 7053.6  | 7708.8  | 9291.0  |
| 75°   | 547.0  | 532.0  | 620.9  | 762.2  | 884.2  | 841.4   | 824.3   | 4283.1  | 4998.2  | 7185.3  |
| 77.5° | 433.6  | 413.2  | 494.6  | 594.1  | 795.4  | 634.8   | 600.6   | 1844.5  | 2553.2  | 4587.2  |
| 80°   | 326.5  | 308.3  | 375.8  | 470.0  | 611.3  | 478.5   | 388.6   | 752.6   | 962.4   | 2324.1  |
| 82.5° | 232.3  | 216.2  | 262.3  | 344.7  | 411.1  | 429.3   | 238.7   | 421.8   | 474.2   | 896.0   |
| 85°   | 148.8  | 139.2  | 175.6  | 216.2  | 261.2  | 276.2   | 145.6   | 220.5   | 241.9   | 369.3   |
| 87.5° | 81.4   | 66.4   | 94.2   | 100.6  | 121.0  | 110.3   | 69.6    | 80.3    | 86.7    | 133.8   |
| 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°         |
|---------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| 2273.8        | 0°           | 2273.8        | 2273.8        | 2273.8        | 2273.8        | 2273.8        | 2273.8       | 2273.8       | 2273.8       | 2273.8       | 2273.8       |
| 2278.1        | 2.5°         | 2282.3        | 2285.6        | 2296.3        | 2299.5        | 2307.0        | 2316.6       | 2323.0       | 2329.4       | 2329.4       | 2335.9       |
| 2312.3        | 5°           | 2313.4        | 2320.9        | 2343.4        | 2355.1        | 2374.4        | 2393.7       | 2405.5       | 2419.4       | 2427.9       | 2432.2       |
| 2366.9        | 7.5°         | 2373.3        | 2385.1        | 2417.2        | 2437.6        | 2470.8        | 2497.5       | 2515.7       | 2535.0       | 2539.3       | 2551.0       |
| 2442.9        | 10°          | 2454.7        | 2468.6        | 2505.0        | 2543.5        | 2583.2        | 2616.3       | 2633.5       | 2647.4       | 2652.7       | 2654.9       |
| 2540.3        | 12.5°        | 2547.8        | 2568.2        | 2615.3        | 2662.4        | 2704.1        | 2733.0       | 2737.3       | 2734.1       | 2719.1       | 2706.3       |
| 2660.2        | 15°          | 2662.4        | 2680.6        | 2733.0        | 2784.4        | 2825.1        | 2830.4       | 2803.7       | 2786.6       | 2768.4       | 2765.1       |
| 2794.0        | 17.5°        | 2799.4        | 2809.0        | 2857.2        | 2907.5        | 2910.7        | 2892.5       | 2852.9       | 2836.9       | 2819.7       | 2808.0       |
| 2968.5        | 20°          | 2958.9        | 2955.7        | 2990.0        | 3011.4        | 2988.9        | 2933.2       | 2873.3       | 2846.5       | 2829.4       | 2815.5       |
| 3182.6        | 22.5°        | 3149.5        | 3124.8        | 3120.6        | 3115.2        | 3055.3        | 2938.6       | 2857.2       | 2823.0       | 2796.2       | 2776.9       |
| 3481.3        | 25°          | 3426.7        | 3332.5        | 3267.2        | 3230.8        | 3095.9        | 2909.7       | 2805.8       | 2729.8       | 2679.5       | 2646.3       |
| 3846.4        | 27.5°        | 3773.6        | 3615.1        | 3450.3        | 3361.4        | 3095.9        | 2850.8       | 2681.6       | 2558.5       | 2476.1       | 2441.8       |
| 4199.6        | 30°          | 4104.4        | 3938.4        | 3695.4        | 3518.8        | 3088.4        | 2754.4       | 2481.5       | 2310.2       | 2213.8       | 2179.6       |
| 4501.5        | 32.5°        | 4387.0        | 4206.1        | 3955.6        | 3691.1        | 3070.2        | 2598.1       | 2233.1       | 2043.6       | 1950.5       | 1909.8       |
| 4800.2        | 35°          | 4649.3        | 4456.6        | 4216.8        | 3880.6        | 3022.1        | 2369.1       | 1960.1       | 1815.6       | 1711.8       | 1646.5       |
| 5104.2        | 37.5°        | 4918.0        | 4688.9        | 4464.1        | 4051.9        | 2935.4        | 2101.4       | 1750.3       | 1627.2       | 1505.1       | 1417.4       |
| 5427.5        | 40°          | 5210.2        | 4936.2        | 4728.5        | 4153.6        | 2793.0        | 1846.6       | 1587.6       | 1475.2       | 1345.6       | 1252.5       |
| 5800.1        | 42.5°        | 5551.7        | 5232.7        | 5022.9        | 4206.1        | 2598.1        | 1665.7       | 1481.6       | 1371.3       | 1249.3       | 1173.3       |
| 6199.4        | 45°          | 5908.2        | 5559.2        | 5291.6        | 4205.0        | 2380.8        | 1581.2       | 1447.3       | 1338.1       | 1203.3       | 1124.0       |
| 6609.4        | 47.5°        | 6281.8        | 5900.7        | 5523.9        | 4136.5        | 2192.4        | 1592.9       | 1428.1       | 1266.4       | 1117.6       | 1040.5       |
| 7023.7        | 50°          | 6656.5        | 6274.3        | 5748.7        | 4008.0        | 2112.1        | 1567.2       | 1356.3       | 1165.8       | 990.2        | 920.6        |
| 7412.3        | 52.5°        | 7027.9        | 6671.5        | 5942.4        | 3825.0        | 2030.8        | 1472.0       | 1264.3       | 1035.2       | 937.8        | 889.6        |
| 7813.7        | 55°          | 7401.6        | 7064.3        | 6153.3        | 3558.4        | 1827.4        | 1360.6       | 1110.1       | 985.9        | 896.0        | 852.1        |
| 8206.6        | 57.5°        | 7776.2        | 7518.2        | 6353.5        | 3291.8        | 1571.5        | 1223.6       | 1025.6       | 926.0        | 854.3        | 816.8        |
| 8535.2        | 60°          | 8165.9        | 8037.4        | 6560.1        | 3046.7        | 1318.9        | 1048.0       | 963.5        | 877.8        | 805.0        | 763.3        |
| <b>8851.0</b> | <b>62.5°</b> | <b>8567.3</b> | <b>8609.1</b> | <b>6721.8</b> | <b>2730.9</b> | <b>1086.6</b> | <b>941.0</b> | <b>907.8</b> | <b>820.0</b> | <b>749.4</b> | <b>709.8</b> |
| 9112.2        | 65°          | 8972.0        | 9160.4        | 6827.8        | 2293.0        | 881.0         | 839.3        | 847.8        | 756.9        | 685.1        | 650.9        |
| 9303.9        | 67.5°        | 9277.1        | 9557.6        | 6797.8        | 1735.3        | 722.6         | 742.9        | 772.9        | 690.5        | 623.0        | 596.3        |
| 9272.8        | 70°          | 9311.4        | 9510.5        | 6502.3        | 1188.3        | 604.8         | 648.7        | 689.4        | 625.2        | 555.6        | 536.3        |
| 8836.0        | 72.5°        | 8855.3        | 8868.2        | 5679.1        | 776.1         | 511.7         | 569.5        | 601.6        | 558.8        | 491.4        | 472.1        |
| 7730.2        | 75°          | 7659.5        | 7334.1        | 4169.7        | 511.7         | 428.2         | 489.2        | 519.2        | 489.2        | 423.9        | 428.2        |
| 5784.0        | 77.5°        | 5803.3        | 5194.1        | 2531.8        | 364.0         | 357.6         | 411.1        | 451.8        | 430.3        | 374.7        | 420.7        |
| 2908.6        | 80°          | 2990.0        | 2810.1        | 1129.4        | 271.9         | 282.6         | 328.6        | 371.5        | 343.6        | 296.5        | 282.6        |
| 649.8         | 82.5°        | 685.1         | 796.5         | 445.3         | 194.8         | 204.5         | 236.6        | 283.7        | 258.0        | 213.0        | 179.8        |
| 270.8         | 85°          | 239.8         | 262.3         | 197.0         | 122.0         | 119.9         | 147.7        | 192.7        | 172.4        | 144.5        | 115.6        |
| 114.5         | 87.5°        | 76.0          | 99.6          | 73.9          | 49.2          | 51.4          | 66.4         | 88.9         | 81.4         | 67.4         | 43.9         |
| 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°   |
| 2273.8 |
| 2335.9 |
| 2434.4 |
| 2546.8 |
| 2649.5 |
| 2706.3 |
| 2765.1 |
| 2809.0 |
| 2816.5 |
| 2783.3 |
| 2659.2 |
| 2459.0 |
| 2199.9 |
| 1930.1 |
| 1667.9 |
| 1440.9 |
| 1270.7 |
| 1188.3 |
| 1136.9 |
| 1051.2 |
| 924.9  |
| 889.6  |
| 847.8  |
| 810.4  |
| 760.1  |
| 708.7  |
| 649.8  |
| 597.3  |
| 537.4  |
| 471.0  |
| 413.2  |
| 370.4  |
| 258.0  |
| 177.7  |
| 122.0  |
| 46.0   |
| 0.0    |

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