

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: P941759

Luminaire Tested: **GALN-SB5B-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

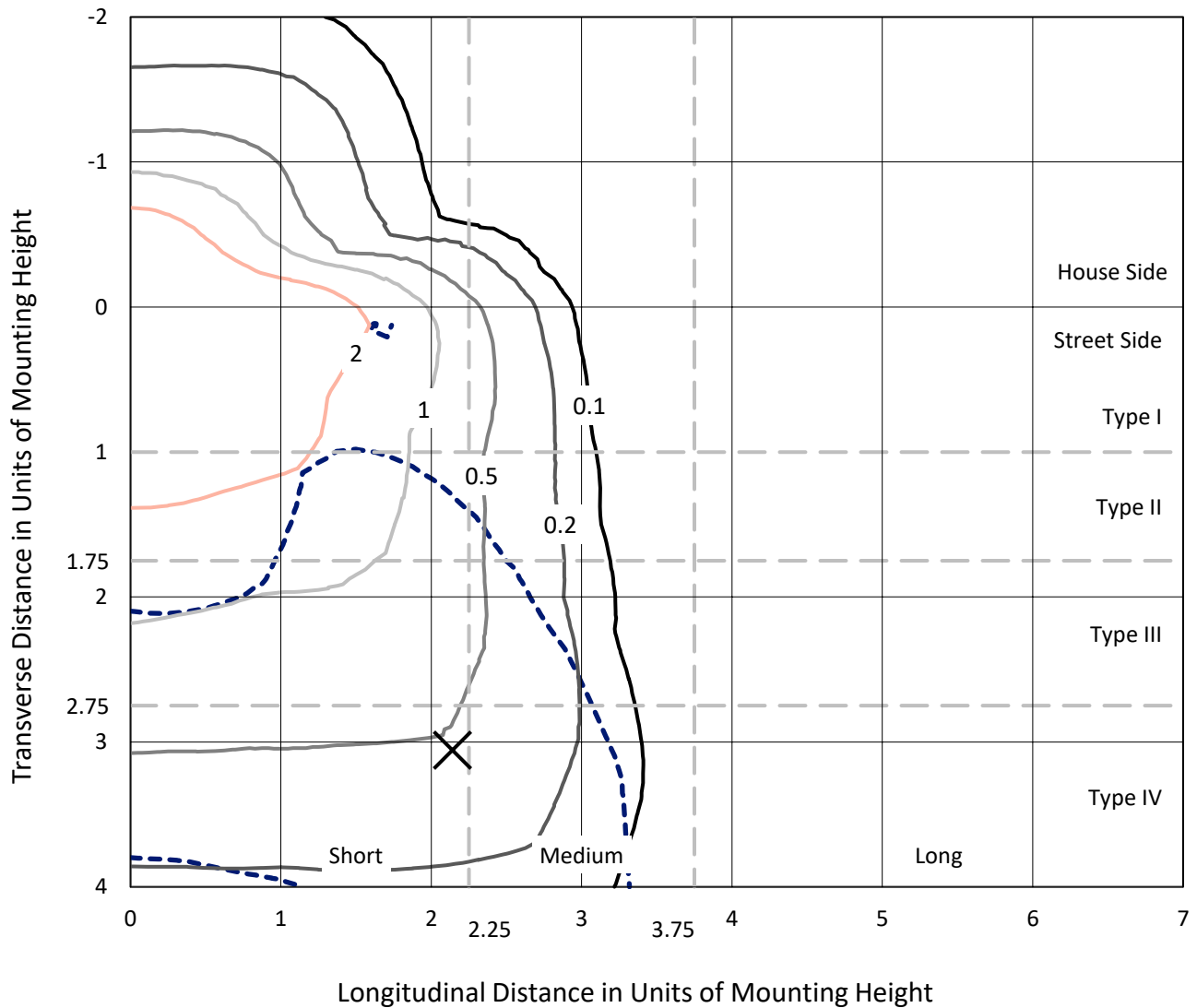
Lumens per Lamp: N/A  
Luminaire Lumens: 20373 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

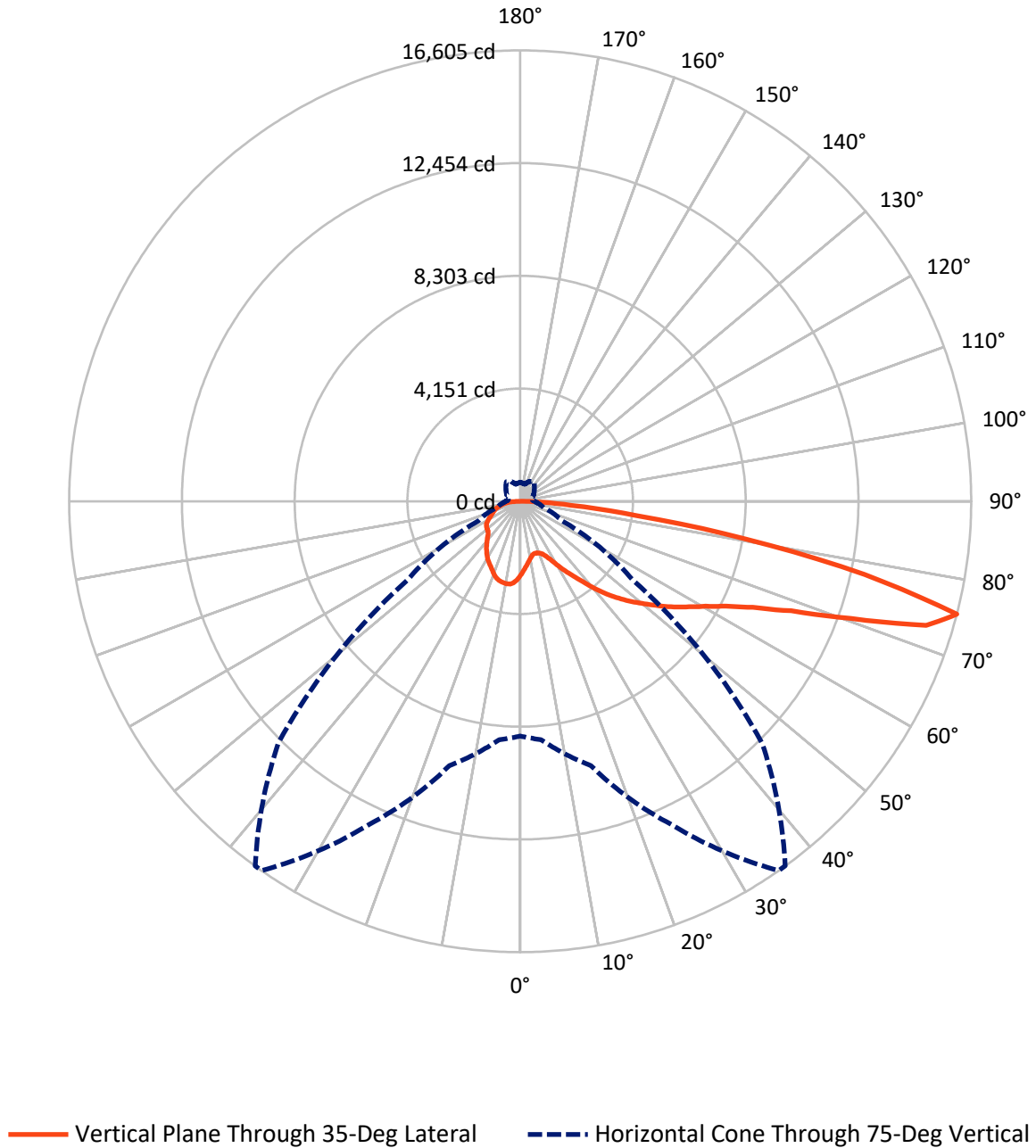
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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    | 4848.3   | 0.0    | 4848.3  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 15524.7  | 0.0    | 15524.7 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 20373.0  | 0.0    | 20373.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 257.0   | 1.3       |
| 10°-20°   | 741.4   | 3.6       |
| 20°-30°   | 1245.0  | 6.1       |
| 30°-40°   | 1935.0  | 9.5       |
| 40°-50°   | 2872.0  | 14.1      |
| 50°-60°   | 3965.0  | 19.5      |
| 60°-70°   | 4810.4  | 23.6      |
| 70°-80°   | 3975.4  | 19.5      |
| 80°-90°   | 571.8   | 2.8       |
| 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°    | 20373.0 | 100.0     |
| 0°-180°   | 20373.0 | 100.0     |



REPORT NUMBER: P941759

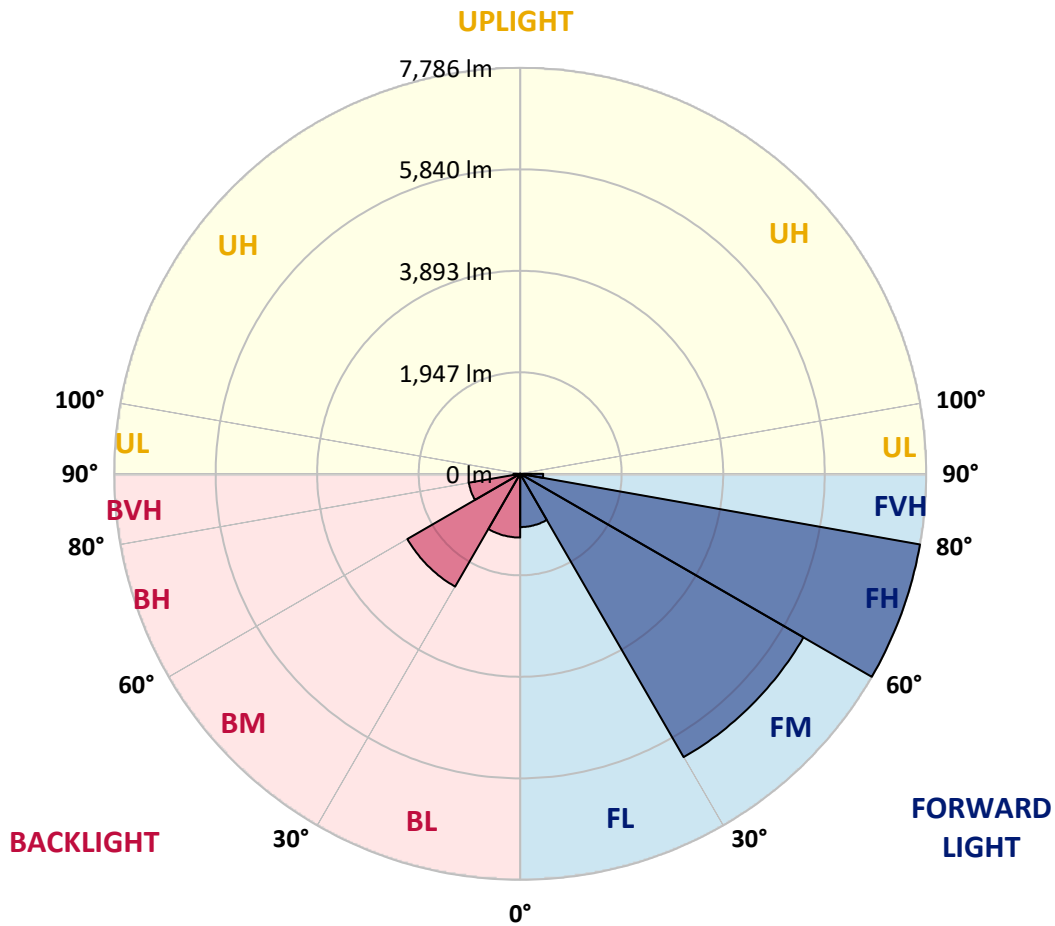
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1021.7 | 5.0       |                         |      |          |
| FM (30°-60°)   | 6273.8 | 30.8      |                         |      |          |
| FH (60°-80°)   | 7786.3 | 38.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 443.0  | 2.2       |                         |      | G3/500   |
| BL (0°-30°)    | 1221.8 | 6.0       | B3/2500                 |      |          |
| BM (30°-60°)   | 2498.1 | 12.3      | B2/2500                 |      |          |
| BH (60°-80°)   | 999.6  | 4.9       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 128.8  | 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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°    | 65°    | 75°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2714.8  | 2714.8  | 2714.8  | 2714.8  | 2714.8  | 2714.8  | 2714.8  | 2714.8 | 2714.8 | 2714.8 |
| 2.5°  | 2503.4  | 2518.8  | 2525.4  | 2522.1  | 2538.6  | 2536.4  | 2559.5  | 2588.2 | 2627.8 | 2666.4 |
| 5°    | 2310.6  | 2327.2  | 2341.5  | 2354.7  | 2386.6  | 2396.5  | 2432.9  | 2488.0 | 2560.7 | 2634.4 |
| 7.5°  | 2131.1  | 2145.4  | 2167.5  | 2191.7  | 2245.7  | 2255.6  | 2316.1  | 2402.1 | 2503.4 | 2611.3 |
| 10°   | 1984.6  | 1999.0  | 2022.1  | 2049.6  | 2116.8  | 2128.9  | 2206.0  | 2320.6 | 2452.7 | 2589.3 |
| 12.5° | 1921.9  | 1926.3  | 1939.5  | 1967.0  | 2025.4  | 2033.1  | 2117.9  | 2249.0 | 2403.2 | 2572.8 |
| 15°   | 1918.6  | 1927.4  | 1928.5  | 1942.8  | 1991.2  | 1994.6  | 2072.8  | 2202.7 | 2372.3 | 2569.5 |
| 17.5° | 1951.6  | 1958.2  | 1948.3  | 1957.1  | 1997.9  | 2003.4  | 2065.0  | 2180.7 | 2362.4 | 2583.8 |
| 20°   | 2039.7  | 2045.2  | 2015.5  | 2003.4  | 2033.1  | 2037.5  | 2098.1  | 2195.0 | 2372.3 | 2613.5 |
| 22.5° | 2226.9  | 2230.2  | 2157.6  | 2108.0  | 2110.2  | 2112.4  | 2165.3  | 2253.4 | 2410.9 | 2667.5 |
| 25°   | 2518.8  | 2516.6  | 2401.0  | 2305.1  | 2250.1  | 2238.0  | 2273.2  | 2348.1 | 2475.8 | 2739.1 |
| 27.5° | 2860.2  | 2843.7  | 2728.1  | 2584.9  | 2464.8  | 2447.2  | 2439.5  | 2471.4 | 2568.4 | 2833.8 |
| 30°   | 3245.7  | 3230.3  | 3105.8  | 2918.6  | 2752.3  | 2723.7  | 2651.0  | 2634.4 | 2706.0 | 2962.6 |
| 32.5° | 3668.6  | 3658.7  | 3510.0  | 3283.1  | 3060.7  | 3027.6  | 2905.4  | 2861.3 | 2917.5 | 3157.6 |
| 35°   | 4023.2  | 4014.4  | 3891.1  | 3657.6  | 3385.6  | 3344.8  | 3220.4  | 3170.8 | 3199.4 | 3407.6 |
| 37.5° | 4343.7  | 4339.3  | 4233.6  | 4049.7  | 3768.8  | 3719.3  | 3579.4  | 3562.9 | 3557.4 | 3736.9 |
| 40°   | 4641.1  | 4630.1  | 4520.0  | 4423.0  | 4214.9  | 4169.7  | 4046.4  | 4032.1 | 3990.2 | 4142.2 |
| 42.5° | 4970.4  | 4941.8  | 4782.1  | 4736.9  | 4680.8  | 4643.3  | 4569.5  | 4571.7 | 4479.2 | 4599.3 |
| 45°   | 5239.1  | 5222.6  | 5058.5  | 5032.1  | 5092.7  | 5077.2  | 5141.1  | 5157.6 | 4978.1 | 5078.3 |
| 47.5° | 5527.7  | 5512.3  | 5373.5  | 5354.8  | 5518.9  | 5523.3  | 5749.1  | 5754.6 | 5464.9 | 5576.2 |
| 50°   | 5883.4  | 5861.4  | 5723.7  | 5746.9  | 5930.8  | 5947.3  | 6360.3  | 6322.9 | 5913.2 | 6081.7 |
| 52.5° | 6118.0  | 6131.2  | 6101.5  | 6139.0  | 6390.1  | 6405.5  | 6961.7  | 6865.8 | 6357.0 | 6580.6 |
| 55°   | 6290.9  | 6317.4  | 6409.9  | 6495.8  | 6874.7  | 6890.1  | 7528.9  | 7382.4 | 6724.9 | 7043.2 |
| 57.5° | 6513.4  | 6476.0  | 6648.9  | 6816.3  | 7335.0  | 7375.8  | 8080.6  | 7880.2 | 7050.9 | 7441.9 |
| 60°   | 6832.8  | 6806.4  | 6940.7  | 7188.5  | 7850.5  | 7915.4  | 8664.4  | 8328.4 | 7289.9 | 7757.9 |
| 62.5° | 7480.4  | 7414.3  | 7435.2  | 7654.4  | 8500.3  | 8586.2  | 9323.0  | 8719.4 | 7408.8 | 7881.3 |
| 65°   | 8448.5  | 8335.1  | 8229.3  | 8381.3  | 9415.5  | 9500.3  | 10066.4 | 9026.7 | 7364.8 | 7642.3 |
| 67.5° | 9667.7  | 9555.4  | 9425.4  | 9568.6  | 10763.5 | 10830.7 | 10983.8 | 9199.6 | 7017.8 | 6721.6 |
| 70°   | 10673.2 | 10631.4 | 10786.7 | 11375.9 | 12916.7 | 12918.9 | 12160.1 | 9056.4 | 6067.4 | 4765.6 |
| 72.5° | 10540.0 | 10514.6 | 11332.9 | 13154.6 | 15630.4 | 15572.1 | 13273.5 | 7972.7 | 4087.1 | 2149.8 |
| 75°   | 8646.7  | 8810.8  | 10078.5 | 13122.6 | 16605.1 | 16597.4 | 12591.8 | 5068.4 | 1690.6 | 891.0  |
| 77.5° | 4636.7  | 4896.6  | 6543.2  | 9688.6  | 12962.9 | 13157.9 | 8852.7  | 1773.2 | 725.8  | 570.5  |
| 80°   | 1512.2  | 1739.0  | 2608.0  | 4933.0  | 8423.2  | 8386.8  | 3794.2  | 696.1  | 496.7  | 404.2  |
| 82.5° | 642.1   | 668.5   | 1165.2  | 2329.4  | 4322.8  | 4255.6  | 1208.2  | 399.8  | 349.1  | 276.4  |
| 85°   | 251.1   | 280.8   | 514.3   | 1077.1  | 1872.3  | 1831.6  | 436.1   | 198.2  | 223.6  | 180.6  |
| 87.5° | 82.6    | 100.2   | 183.9   | 369.0   | 582.6   | 561.7   | 106.8   | 68.3   | 96.9   | 82.6   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2714.8 | 0°    | 2714.8 | 2714.8 | 2714.8 | 2714.8 | 2714.8 | 2714.8 | 2714.8 | 2714.8 | 2714.8 | 2714.8 |
| 2722.5 | 2.5°  | 2738.0 | 2755.6 | 2776.5 | 2807.4 | 2833.8 | 2855.8 | 2878.9 | 2893.3 | 2898.8 | 2915.3 |
| 2727.0 | 5°    | 2757.8 | 2796.3 | 2848.1 | 2898.8 | 2948.3 | 2978.1 | 3004.5 | 3017.7 | 3029.8 | 3038.6 |
| 2739.1 | 7.5°  | 2790.8 | 2840.4 | 2921.9 | 2988.0 | 3029.8 | 3054.1 | 3071.7 | 3067.3 | 3071.7 | 3073.9 |
| 2752.3 | 10°   | 2819.5 | 2888.9 | 2985.8 | 3048.6 | 3080.5 | 3081.6 | 3077.2 | 3061.8 | 3054.1 | 3055.2 |
| 2772.1 | 12.5° | 2853.6 | 2930.7 | 3035.3 | 3088.2 | 3097.0 | 3072.8 | 3054.1 | 3027.6 | 3017.7 | 3013.3 |
| 2801.8 | 15°   | 2899.9 | 2988.0 | 3089.3 | 3109.1 | 3087.1 | 3056.3 | 3024.3 | 2981.4 | 2959.3 | 2941.7 |
| 2852.5 | 17.5° | 2956.0 | 3053.0 | 3131.2 | 3116.8 | 3069.5 | 3018.8 | 2967.1 | 2902.1 | 2856.9 | 2838.2 |
| 2921.9 | 20°   | 3034.2 | 3121.2 | 3163.1 | 3100.3 | 3028.7 | 2951.6 | 2863.5 | 2784.2 | 2742.4 | 2723.7 |
| 3010.0 | 22.5° | 3128.9 | 3212.7 | 3193.9 | 3071.7 | 2970.4 | 2847.0 | 2736.9 | 2678.5 | 2657.6 | 2644.4 |
| 3123.4 | 25°   | 3242.4 | 3314.0 | 3216.0 | 3029.8 | 2874.5 | 2708.2 | 2623.4 | 2604.7 | 2594.8 | 2584.9 |
| 3262.2 | 27.5° | 3390.0 | 3428.5 | 3232.5 | 2968.2 | 2724.8 | 2560.7 | 2529.8 | 2533.1 | 2529.8 | 2513.3 |
| 3455.0 | 30°   | 3584.9 | 3577.2 | 3247.9 | 2867.9 | 2552.9 | 2427.4 | 2429.6 | 2443.9 | 2446.1 | 2435.1 |
| 3723.7 | 32.5° | 3841.5 | 3763.3 | 3255.6 | 2738.0 | 2388.8 | 2310.6 | 2312.8 | 2328.3 | 2339.3 | 2320.6 |
| 4075.0 | 35°   | 4152.1 | 3980.3 | 3243.5 | 2575.0 | 2262.2 | 2199.4 | 2182.9 | 2187.3 | 2190.6 | 2173.0 |
| 4501.2 | 37.5° | 4514.5 | 4223.7 | 3189.5 | 2394.3 | 2157.6 | 2090.4 | 2055.1 | 2025.4 | 2007.8 | 1991.2 |
| 4983.6 | 40°   | 4912.0 | 4489.1 | 3090.4 | 2218.1 | 2040.8 | 1974.7 | 1921.9 | 1865.7 | 1806.2 | 1784.2 |
| 5494.7 | 42.5° | 5328.4 | 4762.3 | 2970.4 | 2049.6 | 1906.4 | 1852.5 | 1796.3 | 1714.8 | 1625.6 | 1580.4 |
| 6025.5 | 45°   | 5760.1 | 5042.0 | 2852.5 | 1883.3 | 1768.8 | 1745.6 | 1680.7 | 1582.6 | 1485.7 | 1428.5 |
| 6557.5 | 47.5° | 6183.0 | 5306.3 | 2679.6 | 1715.9 | 1639.9 | 1665.2 | 1614.6 | 1524.3 | 1416.3 | 1326.0 |
| 7085.0 | 50°   | 6587.2 | 5554.1 | 2396.5 | 1546.3 | 1535.3 | 1641.0 | 1592.6 | 1462.6 | 1339.2 | 1223.6 |
| 7602.7 | 52.5° | 6988.1 | 5754.6 | 2034.2 | 1392.1 | 1479.1 | 1634.4 | 1563.9 | 1420.7 | 1269.9 | 1148.7 |
| 8089.5 | 55°   | 7328.4 | 5858.1 | 1685.1 | 1260.0 | 1397.6 | 1578.2 | 1529.8 | 1371.2 | 1171.8 | 1043.0 |
| 8423.2 | 57.5° | 7522.3 | 5774.4 | 1394.3 | 1130.0 | 1285.3 | 1485.7 | 1471.4 | 1265.5 | 1055.1 | 956.0  |
| 8488.1 | 60°   | 7438.6 | 5435.2 | 1156.4 | 1016.6 | 1178.4 | 1385.5 | 1370.1 | 1160.8 | 965.9  | 872.3  |
| 8140.1 | 62.5° | 6977.1 | 4788.7 | 968.1  | 917.4  | 1081.5 | 1283.1 | 1268.8 | 1080.4 | 897.6  | 807.3  |
| 7216.1 | 65°   | 6047.5 | 3895.5 | 821.6  | 834.8  | 983.5  | 1159.7 | 1180.7 | 1013.2 | 843.6  | 755.5  |
| 5582.8 | 67.5° | 4612.5 | 2821.7 | 707.1  | 763.2  | 887.7  | 1038.6 | 1099.2 | 964.8  | 798.5  | 714.8  |
| 3230.3 | 70°   | 2628.9 | 1602.5 | 610.2  | 693.9  | 802.9  | 926.2  | 1036.4 | 926.2  | 750.0  | 680.6  |
| 1210.4 | 72.5° | 996.7  | 735.7  | 527.5  | 624.5  | 721.4  | 831.5  | 967.0  | 865.7  | 693.9  | 642.1  |
| 625.6  | 75°   | 532.0  | 448.3  | 443.8  | 543.0  | 627.8  | 739.0  | 880.0  | 806.2  | 652.0  | 678.4  |
| 432.8  | 77.5° | 362.3  | 317.2  | 371.2  | 464.8  | 525.3  | 636.6  | 787.5  | 715.9  | 565.0  | 562.8  |
| 299.6  | 80°   | 251.1  | 224.7  | 301.8  | 374.5  | 406.4  | 535.3  | 687.2  | 614.6  | 460.4  | 429.5  |
| 185.0  | 82.5° | 150.9  | 146.5  | 225.8  | 279.7  | 287.5  | 413.0  | 569.4  | 515.4  | 376.7  | 328.2  |
| 110.1  | 85°   | 82.6   | 87.0   | 144.3  | 164.1  | 167.4  | 288.6  | 446.0  | 398.7  | 289.7  | 243.4  |
| 39.6   | 87.5° | 23.1   | 29.7   | 52.9   | 65.0   | 80.4   | 149.8  | 265.4  | 236.8  | 145.4  | 101.3  |
| 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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| <u>180°</u> |
|-------------|
| 2714.8      |
| 2914.2      |
| 3040.8      |
| 3077.2      |
| 3057.4      |
| 3011.1      |
| 2947.2      |
| 2839.3      |
| 2721.4      |
| 2646.6      |
| 2584.9      |
| 2516.6      |
| 2440.6      |
| 2329.4      |
| 2185.1      |
| 2002.3      |
| 1794.1      |
| 1586.0      |
| 1424.1      |
| 1316.1      |
| 1213.7      |
| 1135.5      |
| 1032.0      |
| 942.8       |
| 859.1       |
| 793.0       |
| 741.2       |
| 701.6       |
| 671.8       |
| 633.3       |
| 700.5       |
| 518.7       |
| 410.8       |
| 330.4       |
| 245.6       |
| 101.3       |
| 0.0         |

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