

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: P941017

Luminaire Tested: **GALN-SB4B-835-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941017  
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-SB4B-835-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

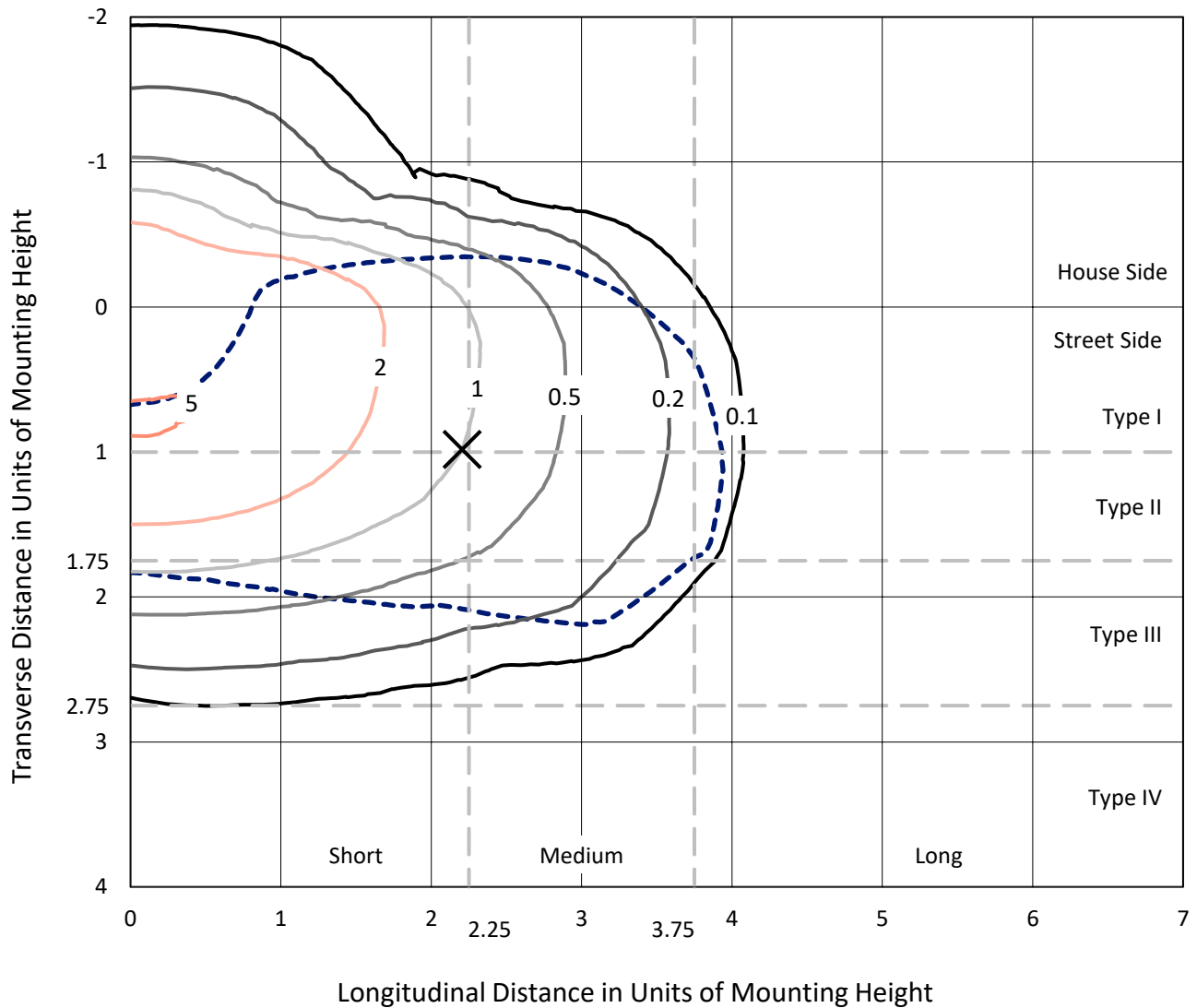
Lumens per Lamp: N/A  
Luminaire Lumens: 20947 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

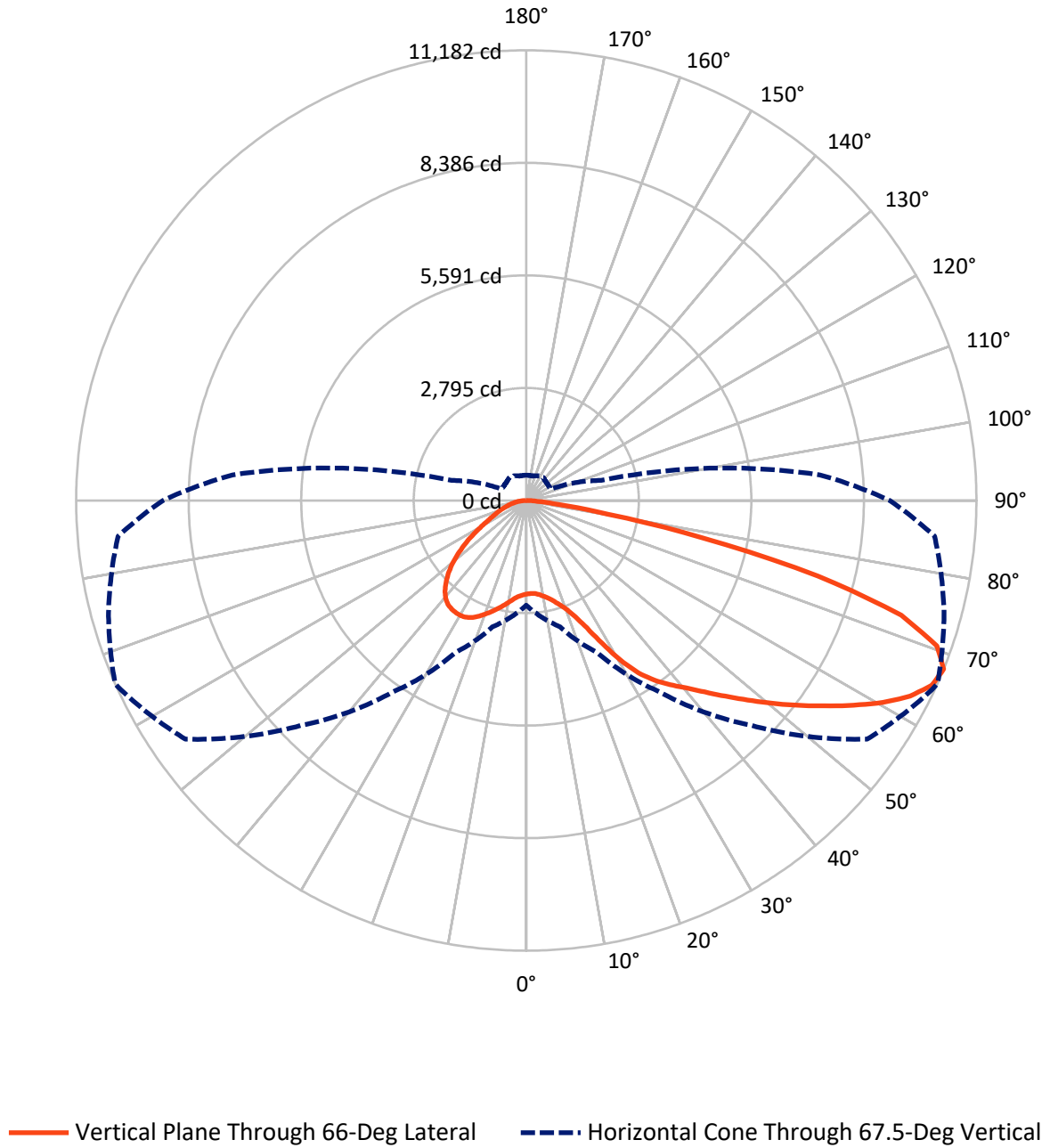
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type 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    | 5208.4   | 0.0    | 5208.4  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 15738.6  | 0.0    | 15738.6 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 20947.0  | 0.0    | 20947.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 230.3   | 1.1       |
| 10°-20°   | 761.0   | 3.6       |
| 20°-30°   | 1466.8  | 7.0       |
| 30°-40°   | 2571.9  | 12.3      |
| 40°-50°   | 3823.6  | 18.3      |
| 50°-60°   | 4846.8  | 23.1      |
| 60°-70°   | 4742.5  | 22.6      |
| 70°-80°   | 2262.2  | 10.8      |
| 80°-90°   | 241.8   | 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°    | 20947.0 | 100.0     |
| 0°-180°   | 20947.0 | 100.0     |

**Coefficient of Utilization**



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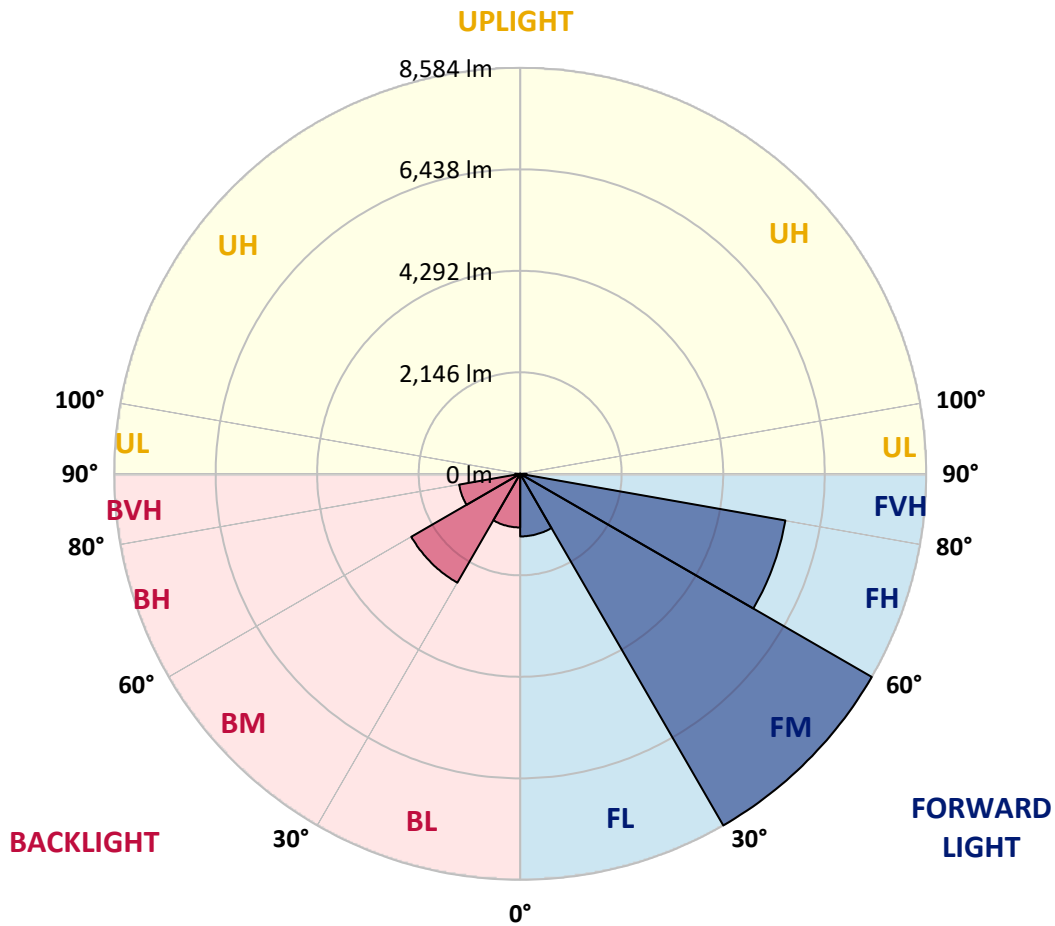
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1323.6 | 6.3       |                         |      |         |
| FM (30°-60°)   | 8583.9 | 41.0      |                         |      |         |
| FH (60°-80°)   | 5694.0 | 27.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 137.1  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 1134.6 | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2658.4 | 12.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 1310.7 | 6.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 104.7  | 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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 66°     | 75°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3  | 2323.3  | 2323.3  | 2323.3  |
| 2.5°  | 2299.1 | 2312.3 | 2309.0 | 2303.5 | 2302.4 | 2304.6 | 2307.9  | 2311.2  | 2310.1  | 2315.6  |
| 5°    | 2292.5 | 2305.7 | 2304.6 | 2304.6 | 2309.0 | 2317.8 | 2323.3  | 2328.8  | 2323.3  | 2329.9  |
| 7.5°  | 2296.9 | 2306.8 | 2311.2 | 2315.6 | 2326.6 | 2343.1 | 2356.3  | 2368.4  | 2361.8  | 2369.5  |
| 10°   | 2353.0 | 2360.7 | 2365.1 | 2365.1 | 2372.8 | 2391.5 | 2404.7  | 2426.8  | 2421.2  | 2433.4  |
| 12.5° | 2455.4 | 2463.1 | 2463.1 | 2458.7 | 2464.2 | 2476.3 | 2480.7  | 2504.9  | 2495.0  | 2514.8  |
| 15°   | 2580.8 | 2596.2 | 2584.1 | 2576.4 | 2578.6 | 2590.7 | 2589.6  | 2608.3  | 2598.4  | 2614.9  |
| 17.5° | 2719.5 | 2739.3 | 2719.5 | 2718.4 | 2714.0 | 2727.2 | 2728.3  | 2744.8  | 2727.2  | 2739.3  |
| 20°   | 2883.5 | 2911.0 | 2894.5 | 2900.0 | 2890.1 | 2895.6 | 2901.1  | 2925.3  | 2897.8  | 2906.6  |
| 22.5° | 3114.6 | 3147.6 | 3130.0 | 3150.9 | 3144.3 | 3139.9 | 3138.8  | 3181.7  | 3138.8  | 3142.1  |
| 25°   | 3451.4 | 3491.0 | 3460.2 | 3488.8 | 3488.8 | 3503.1 | 3519.6  | 3574.6  | 3503.1  | 3482.2  |
| 27.5° | 3948.8 | 3988.5 | 3927.9 | 3945.5 | 3940.0 | 3975.3 | 3957.6  | 4094.1  | 4017.1  | 3983.0  |
| 30°   | 4547.5 | 4618.0 | 4503.5 | 4499.1 | 4493.6 | 4549.7 | 4575.1  | 4665.3  | 4587.2  | 4553.0  |
| 32.5° | 5194.7 | 5268.4 | 5131.9 | 5092.3 | 5071.4 | 5105.5 | 5084.6  | 5157.3  | 5103.3  | 5050.5  |
| 35°   | 5879.2 | 5951.9 | 5822.0 | 5745.0 | 5661.3 | 5589.8 | 5514.9  | 5533.7  | 5483.0  | 5402.7  |
| 37.5° | 6526.4 | 6659.5 | 6522.0 | 6439.4 | 6285.3 | 6145.6 | 5936.5  | 5849.5  | 5802.2  | 5728.5  |
| 40°   | 7185.6 | 7261.5 | 7157.0 | 7086.6 | 6919.3 | 6700.3 | 6365.7  | 6181.9  | 6118.1  | 6046.5  |
| 42.5° | 7671.0 | 7743.6 | 7687.5 | 7639.0 | 7508.1 | 7253.8 | 6821.3  | 6591.3  | 6498.9  | 6418.5  |
| 45°   | 8056.2 | 8110.1 | 8074.9 | 8092.5 | 8036.3 | 7789.8 | 7293.5  | 7030.4  | 6934.7  | 6836.7  |
| 47.5° | 8211.3 | 8268.6 | 8324.7 | 8429.3 | 8525.0 | 8343.4 | 7800.8  | 7505.9  | 7404.6  | 7304.5  |
| 50°   | 8193.7 | 8252.1 | 8414.9 | 8637.3 | 8934.4 | 8873.9 | 8335.7  | 8012.1  | 7918.6  | 7804.1  |
| 52.5° | 8052.9 | 8118.9 | 8328.0 | 8697.8 | 9171.0 | 9271.2 | 8880.5  | 8534.9  | 8446.9  | 8310.4  |
| 55°   | 7683.1 | 7722.7 | 8036.3 | 8560.2 | 9227.2 | 9548.5 | 9414.3  | 9091.8  | 9003.7  | 8813.3  |
| 57.5° | 6997.4 | 7054.6 | 7511.4 | 8189.3 | 9086.3 | 9736.7 | 9883.1  | 9677.3  | 9592.6  | 9318.5  |
| 60°   | 6102.6 | 6194.0 | 6716.8 | 7566.4 | 8727.5 | 9735.6 | 10309.0 | 10252.9 | 10182.5 | 9816.0  |
| 62.5° | 5090.1 | 5195.8 | 5698.7 | 6686.0 | 8100.2 | 9459.4 | 10575.4 | 10734.9 | 10698.6 | 10274.9 |
| 65°   | 3909.2 | 3981.9 | 4482.6 | 5546.9 | 7124.0 | 8866.2 | 10606.2 | 11064.0 | 11070.6 | 10623.8 |
| 67.5° | 2602.8 | 2812.0 | 3246.7 | 4162.3 | 5816.5 | 7896.6 | 10335.4 | 11117.9 | 11181.8 | 10743.7 |
| 70°   | 1270.1 | 1545.2 | 1971.1 | 2705.2 | 4162.3 | 6409.7 | 9627.8  | 10675.5 | 10817.5 | 10393.8 |
| 72.5° | 527.2  | 616.3  | 848.5  | 1335.0 | 2389.3 | 4325.2 | 8205.8  | 9475.9  | 9738.9  | 9209.6  |
| 75°   | 355.5  | 385.2  | 485.4  | 684.6  | 1088.5 | 2132.9 | 5917.8  | 7065.6  | 7489.4  | 6955.6  |
| 77.5° | 274.0  | 292.8  | 353.3  | 478.7  | 647.1  | 806.7  | 3167.4  | 4258.1  | 4477.1  | 4144.7  |
| 80°   | 215.7  | 230.0  | 264.1  | 348.9  | 458.9  | 431.4  | 1079.7  | 1929.3  | 2055.9  | 1724.6  |
| 82.5° | 187.1  | 192.6  | 189.3  | 236.6  | 304.9  | 252.0  | 354.4   | 712.1   | 785.8   | 570.1   |
| 85°   | 135.4  | 150.8  | 157.4  | 146.4  | 161.8  | 127.7  | 145.3   | 252.0   | 277.3   | 247.6   |
| 87.5° | 55.0   | 81.4   | 100.2  | 94.6   | 59.4   | 36.3   | 45.1    | 73.7    | 84.7    | 92.4    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2323.3  | 0°    | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 |
| 2324.4  | 2.5°  | 2325.5 | 2333.2 | 2338.7 | 2345.3 | 2349.7 | 2356.3 | 2369.5 | 2377.2 | 2378.3 | 2383.8 |
| 2342.0  | 5°    | 2346.4 | 2357.4 | 2369.5 | 2387.1 | 2406.9 | 2423.5 | 2448.8 | 2466.4 | 2473.0 | 2478.5 |
| 2384.9  | 7.5°  | 2391.5 | 2406.9 | 2429.0 | 2459.8 | 2488.4 | 2510.4 | 2541.2 | 2562.1 | 2583.0 | 2590.7 |
| 2453.2  | 10°   | 2458.7 | 2480.7 | 2512.6 | 2554.4 | 2585.2 | 2613.8 | 2645.8 | 2663.4 | 2684.3 | 2693.1 |
| 2534.6  | 12.5° | 2542.3 | 2565.4 | 2607.2 | 2665.6 | 2694.2 | 2714.0 | 2725.0 | 2720.6 | 2725.0 | 2732.7 |
| 2632.6  | 15°   | 2638.1 | 2663.4 | 2710.7 | 2773.4 | 2793.2 | 2775.6 | 2751.4 | 2729.4 | 2726.1 | 2728.3 |
| 2751.4  | 17.5° | 2751.4 | 2770.1 | 2825.2 | 2878.0 | 2863.7 | 2791.0 | 2738.2 | 2703.0 | 2685.4 | 2679.9 |
| 2903.3  | 20°   | 2909.9 | 2909.9 | 2955.0 | 2988.0 | 2892.3 | 2769.0 | 2686.5 | 2629.3 | 2592.9 | 2577.5 |
| 3110.2  | 22.5° | 3102.5 | 3084.9 | 3113.5 | 3090.4 | 2886.8 | 2707.4 | 2592.9 | 2493.9 | 2438.9 | 2416.8 |
| 3399.7  | 25°   | 3346.8 | 3325.9 | 3318.2 | 3175.1 | 2847.2 | 2609.4 | 2423.5 | 2303.5 | 2255.1 | 2243.0 |
| 3816.8  | 27.5° | 3715.5 | 3662.7 | 3562.5 | 3221.4 | 2774.5 | 2455.4 | 2225.3 | 2114.2 | 2086.7 | 2087.8 |
| 4352.7  | 30°   | 4206.4 | 4100.7 | 3855.3 | 3229.1 | 2655.7 | 2237.5 | 2022.8 | 1943.6 | 1930.4 | 1935.9 |
| 4802.9  | 32.5° | 4660.9 | 4560.8 | 4154.6 | 3193.8 | 2473.0 | 2023.9 | 1841.3 | 1788.4 | 1768.6 | 1775.2 |
| 5146.3  | 35°   | 5017.5 | 4990.0 | 4432.0 | 3144.3 | 2248.5 | 1823.6 | 1678.4 | 1633.2 | 1594.7 | 1585.9 |
| 5469.8  | 37.5° | 5354.3 | 5343.3 | 4640.0 | 3075.0 | 2026.1 | 1681.7 | 1547.4 | 1488.0 | 1431.8 | 1401.0 |
| 5827.5  | 40°   | 5724.1 | 5713.0 | 4776.5 | 2968.2 | 1829.1 | 1558.4 | 1429.6 | 1351.5 | 1282.2 | 1226.0 |
| 6232.5  | 42.5° | 6140.1 | 6075.1 | 4841.4 | 2815.3 | 1661.9 | 1453.9 | 1333.9 | 1228.2 | 1136.9 | 1085.2 |
| 6690.4  | 45°   | 6594.6 | 6448.2 | 4840.3 | 2620.5 | 1521.0 | 1358.1 | 1231.5 | 1081.9 | 997.1  | 948.7  |
| 7160.3  | 47.5° | 7076.7 | 6804.8 | 4780.9 | 2404.7 | 1384.5 | 1252.4 | 1073.1 | 958.6  | 902.5  | 872.8  |
| 7671.0  | 50°   | 7574.1 | 7138.3 | 4679.6 | 2157.1 | 1244.7 | 1132.5 | 974.0  | 895.9  | 852.9  | 825.4  |
| 8177.2  | 52.5° | 8041.9 | 7440.9 | 4557.5 | 1876.5 | 1102.8 | 1015.8 | 930.0  | 869.4  | 824.3  | 793.5  |
| 8668.1  | 55°   | 8476.6 | 7701.8 | 4384.7 | 1589.2 | 987.2  | 937.7  | 909.1  | 858.4  | 806.7  | 770.4  |
| 9166.6  | 57.5° | 8862.9 | 7871.3 | 4086.4 | 1319.6 | 904.7  | 883.8  | 887.1  | 839.7  | 780.3  | 749.5  |
| 9657.5  | 60°   | 9184.2 | 7995.6 | 3645.1 | 1069.8 | 837.5  | 830.9  | 852.9  | 804.5  | 735.2  | 700.0  |
| 10072.4 | 62.5° | 9376.8 | 7993.4 | 3103.6 | 876.1  | 780.3  | 782.5  | 807.8  | 760.5  | 690.1  | 657.0  |
| 10289.2 | 65°   | 9360.3 | 7797.5 | 2509.3 | 749.5  | 725.3  | 727.5  | 760.5  | 712.1  | 652.6  | 632.8  |
| 10180.3 | 67.5° | 9029.1 | 7319.9 | 1924.9 | 666.9  | 664.7  | 674.6  | 713.2  | 679.1  | 629.5  | 627.3  |
| 9530.9  | 70°   | 8132.1 | 6328.3 | 1386.7 | 600.9  | 602.0  | 616.3  | 666.9  | 658.1  | 617.4  | 621.8  |
| 8013.2  | 72.5° | 6520.9 | 4824.9 | 931.1  | 531.6  | 532.7  | 555.8  | 622.9  | 641.6  | 605.3  | 663.6  |
| 5685.5  | 75°   | 4342.8 | 3009.0 | 598.7  | 457.8  | 458.9  | 488.7  | 584.4  | 609.7  | 572.3  | 661.4  |
| 2958.3  | 77.5° | 2086.7 | 1352.6 | 433.6  | 385.2  | 385.2  | 412.7  | 505.2  | 545.9  | 487.6  | 514.0  |
| 950.9   | 80°   | 720.9  | 508.5  | 341.2  | 310.4  | 303.8  | 322.5  | 425.9  | 473.2  | 420.4  | 387.4  |
| 310.4   | 82.5° | 283.9  | 264.1  | 274.0  | 241.0  | 219.0  | 231.1  | 331.3  | 390.7  | 309.3  | 279.5  |
| 175.0   | 85°   | 162.9  | 171.7  | 193.7  | 159.6  | 126.6  | 142.0  | 243.2  | 280.6  | 233.3  | 205.8  |
| 57.2    | 87.5° | 44.0   | 60.5   | 89.1   | 82.5   | 57.2   | 60.5   | 115.6  | 155.2  | 134.3  | 103.5  |
| 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> |
|-------------|
| 2323.3      |
| 2382.7      |
| 2477.4      |
| 2591.8      |
| 2697.5      |
| 2734.9      |
| 2736.0      |
| 2687.6      |
| 2574.2      |
| 2413.5      |
| 2245.2      |
| 2091.1      |
| 1954.6      |
| 1784.0      |
| 1592.5      |
| 1402.1      |
| 1231.5      |
| 1088.5      |
| 946.5       |
| 866.1       |
| 815.5       |
| 780.3       |
| 756.1       |
| 729.7       |
| 684.6       |
| 647.1       |
| 631.7       |
| 630.6       |
| 620.7       |
| 672.4       |
| 666.9       |
| 471.0       |
| 363.2       |
| 278.4       |
| 210.2       |
| 106.8       |
| 0.0         |

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