

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: P952157

Luminaire Tested: **GALN-SB6A-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6A-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

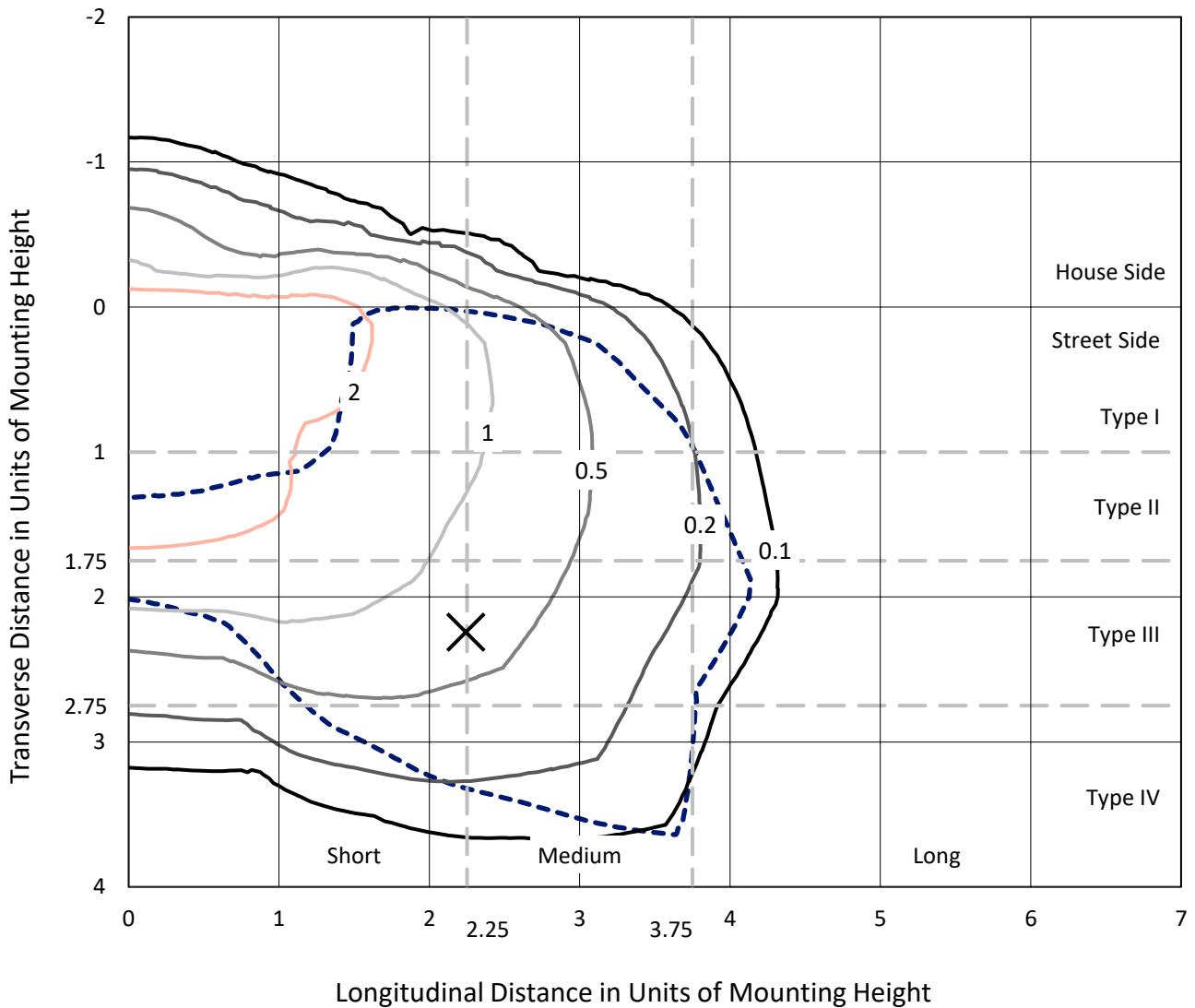
Lumens per Lamp: N/A  
Luminaire Lumens: 18828 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

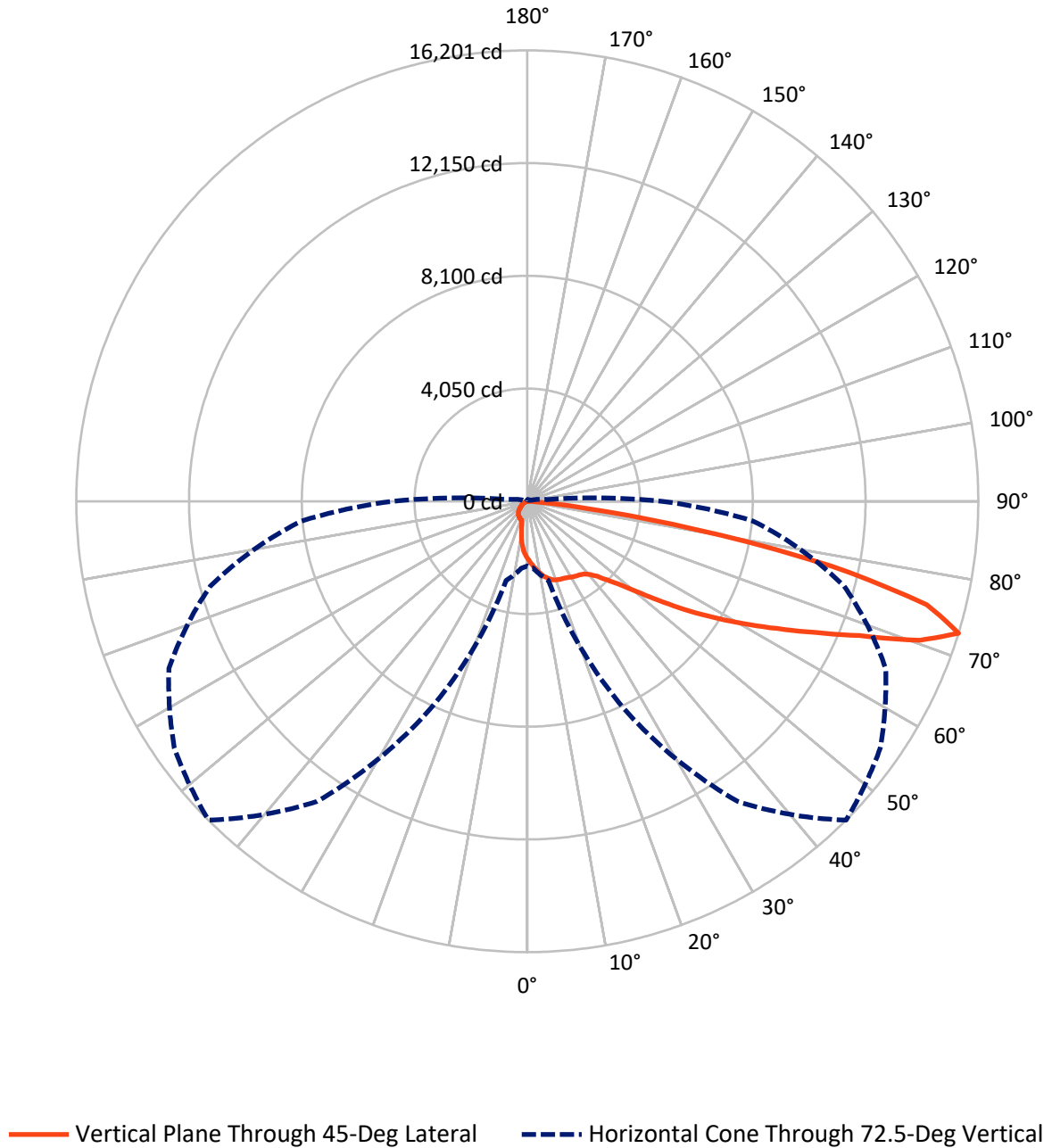
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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    | 1978.3   | 0.0    | 1978.3  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 16849.7  | 0.0    | 16849.7 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 18828.0  | 0.0    | 18828.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 194.3   | 1.0       |
| 10°-20°   | 568.0   | 3.0       |
| 20°-30°   | 932.7   | 5.0       |
| 30°-40°   | 1322.8  | 7.0       |
| 40°-50°   | 2186.5  | 11.6      |
| 50°-60°   | 3927.7  | 20.9      |
| 60°-70°   | 5453.9  | 29.0      |
| 70°-80°   | 3956.1  | 21.0      |
| 80°-90°   | 286.0   | 1.5       |
| 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°    | 18828.0 | 100.0     |
| 0°-180°   | 18828.0 | 100.0     |

**Coefficient of Utilization**



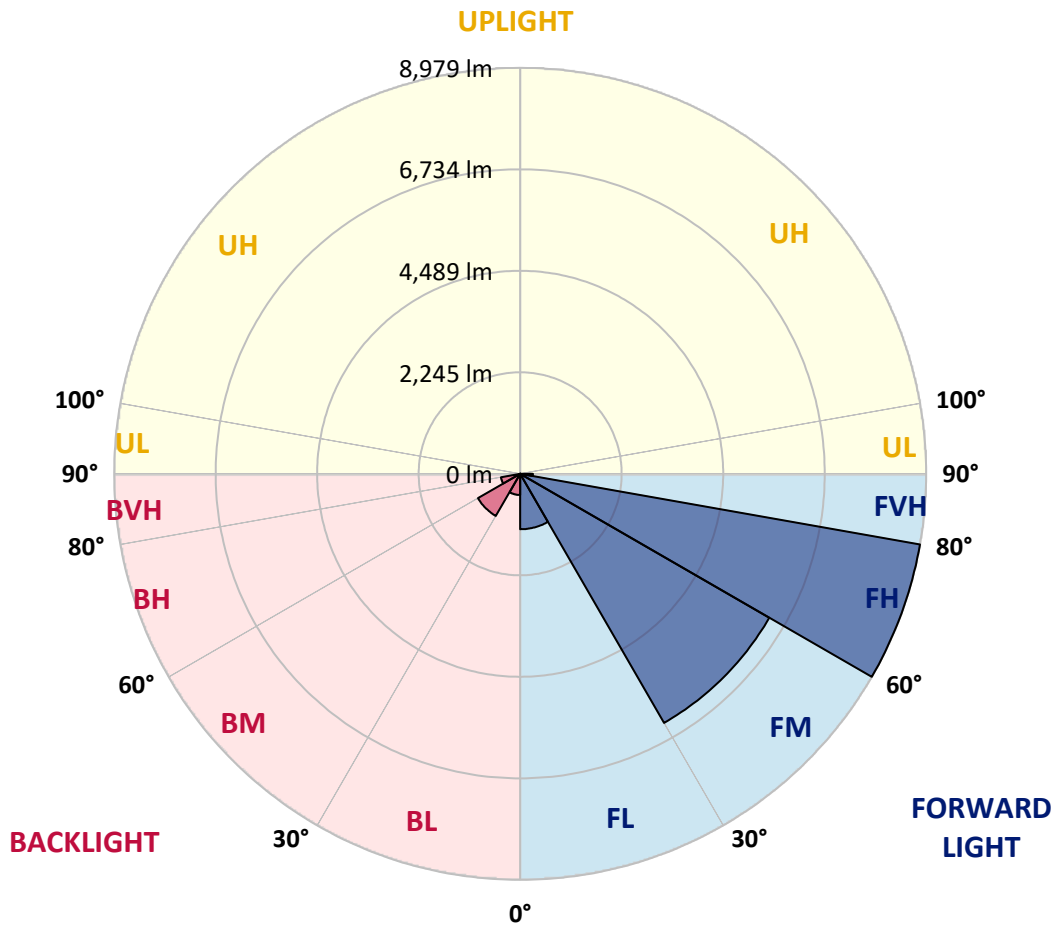
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1226.5 | 6.5       |                         |      |          |
| FM (30°-60°)   | 6361.1 | 33.8      |                         |      |          |
| FH (60°-80°)   | 8978.5 | 47.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 283.6  | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 468.6  | 2.5       | B1/500                  |      |          |
| BM (30°-60°)   | 1075.9 | 5.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 431.4  | 2.3       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.4    | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2062.6 | 2062.6 | 2062.6 | 2062.6  | 2062.6  | 2062.6  | 2062.6  | 2062.6  | 2062.6  | 2062.6  |
| 2.5°  | 2252.8 | 2256.7 | 2254.1 | 2238.7  | 2213.0  | 2198.9  | 2191.2  | 2165.5  | 2148.8  | 2119.2  |
| 5°    | 2459.8 | 2475.2 | 2466.2 | 2435.3  | 2386.5  | 2351.8  | 2341.5  | 2288.8  | 2241.3  | 2186.0  |
| 7.5°  | 2679.5 | 2687.2 | 2670.5 | 2630.7  | 2565.1  | 2506.0  | 2497.0  | 2423.8  | 2347.9  | 2263.1  |
| 10°   | 2869.7 | 2878.7 | 2853.0 | 2795.2  | 2720.6  | 2647.4  | 2634.5  | 2553.6  | 2463.6  | 2359.5  |
| 12.5° | 3029.1 | 3038.1 | 3004.7 | 2935.3  | 2853.0  | 2777.2  | 2764.3  | 2679.5  | 2580.6  | 2464.9  |
| 15°   | 3149.9 | 3166.6 | 3121.6 | 3047.1  | 2958.4  | 2882.6  | 2876.1  | 2792.6  | 2696.2  | 2567.7  |
| 17.5° | 3220.6 | 3237.3 | 3194.9 | 3104.9  | 3029.1  | 2964.8  | 2957.1  | 2887.7  | 2797.7  | 2674.4  |
| 20°   | 3232.1 | 3247.5 | 3202.6 | 3124.2  | 3061.2  | 3009.8  | 3005.9  | 2955.8  | 2890.3  | 2772.0  |
| 22.5° | 3197.4 | 3216.7 | 3175.6 | 3112.6  | 3068.9  | 3041.9  | 3036.8  | 3008.5  | 2971.2  | 2871.0  |
| 25°   | 3161.4 | 3176.9 | 3146.0 | 3090.8  | 3067.6  | 3065.1  | 3068.9  | 3063.8  | 3056.1  | 2971.2  |
| 27.5° | 3158.9 | 3175.6 | 3140.9 | 3088.2  | 3075.3  | 3102.3  | 3106.2  | 3130.6  | 3137.0  | 3062.5  |
| 30°   | 3180.7 | 3192.3 | 3158.9 | 3103.6  | 3097.2  | 3158.9  | 3160.2  | 3203.9  | 3214.1  | 3139.6  |
| 32.5° | 3228.3 | 3241.1 | 3207.7 | 3126.7  | 3117.7  | 3203.9  | 3207.7  | 3265.5  | 3282.2  | 3221.8  |
| 35°   | 3340.1 | 3355.5 | 3316.9 | 3191.0  | 3158.9  | 3246.3  | 3257.8  | 3325.9  | 3359.4  | 3309.2  |
| 37.5° | 3619.0 | 3574.0 | 3521.3 | 3320.8  | 3252.7  | 3313.1  | 3332.4  | 3412.0  | 3471.2  | 3413.3  |
| 40°   | 4311.6 | 4170.3 | 4005.8 | 3541.8  | 3417.2  | 3455.7  | 3471.2  | 3550.8  | 3631.8  | 3575.3  |
| 42.5° | 5351.3 | 5184.2 | 4919.5 | 4050.8  | 3665.2  | 3684.5  | 3696.1  | 3765.5  | 3879.8  | 3834.9  |
| 45°   | 6277.9 | 6217.5 | 5947.6 | 4919.5  | 4129.2  | 4034.1  | 4048.2  | 4084.2  | 4252.5  | 4235.8  |
| 47.5° | 6989.9 | 6955.2 | 6747.0 | 5916.8  | 4913.1  | 4462.0  | 4501.8  | 4518.5  | 4761.4  | 4820.6  |
| 50°   | 7537.3 | 7524.5 | 7338.1 | 6803.5  | 5937.3  | 5093.0  | 5107.1  | 5071.2  | 5434.9  | 5581.4  |
| 52.5° | 8054.0 | 8097.7 | 7960.1 | 7627.3  | 7031.0  | 5919.3  | 5916.8  | 5747.1  | 6238.1  | 6459.1  |
| 55°   | 8520.5 | 8535.9 | 8550.0 | 8467.8  | 8131.1  | 6860.1  | 6835.7  | 6558.1  | 7169.8  | 7398.5  |
| 57.5° | 8958.7 | 8965.1 | 9091.1 | 9259.4  | 9276.1  | 7870.2  | 7825.2  | 7492.4  | 8187.6  | 8350.8  |
| 60°   | 9253.0 | 9282.6 | 9548.6 | 10016.4 | 10220.7 | 8912.4  | 8888.0  | 8548.7  | 9223.4  | 9299.3  |
| 62.5° | 8828.9 | 9008.8 | 9679.7 | 10607.5 | 11112.6 | 10067.8 | 10056.2 | 9737.5  | 10313.2 | 10251.6 |
| 65°   | 7146.7 | 7451.2 | 8631.0 | 11007.2 | 11987.8 | 11358.1 | 11374.8 | 11035.5 | 11432.6 | 11232.1 |
| 67.5° | 4999.2 | 5320.5 | 6716.1 | 11039.3 | 12965.8 | 12873.2 | 12969.6 | 12437.6 | 12621.3 | 12171.5 |
| 70°   | 3457.0 | 3622.8 | 4531.4 | 10347.9 | 13727.9 | 14960.3 | 14957.7 | 14159.7 | 13803.7 | 12599.5 |
| 72.5° | 2324.8 | 2410.9 | 2943.0 | 8209.5  | 13167.5 | 16200.5 | 16125.9 | 15475.6 | 14202.1 | 11783.4 |
| 75°   | 980.6  | 1043.5 | 1362.2 | 4613.6  | 10417.3 | 14821.5 | 14619.7 | 13676.4 | 12618.8 | 9278.7  |
| 77.5° | 311.0  | 338.0  | 537.2  | 1651.4  | 5738.1  | 11140.9 | 10927.5 | 8541.0  | 8457.5  | 4654.8  |
| 80°   | 147.8  | 172.2  | 302.0  | 663.1   | 2258.0  | 6059.4  | 6029.9  | 3874.7  | 3638.2  | 1256.9  |
| 82.5° | 64.3   | 75.8   | 167.1  | 354.7   | 1010.1  | 2161.6  | 2205.3  | 1318.6  | 1091.1  | 476.8   |
| 85°   | 20.6   | 27.0   | 77.1   | 163.2   | 426.7   | 537.2   | 530.8   | 313.6   | 439.5   | 259.6   |
| 87.5° | 0.0    | 0.0    | 25.7   | 37.3    | 43.7    | 30.8    | 34.7    | 27.0    | 122.1   | 72.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2062.6  | 0°    | 2062.6 | 2062.6 | 2062.6 | 2062.6 | 2062.6 | 2062.6 | 2062.6 | 2062.6 | 2062.6 | 2062.6 |
| 2088.4  | 2.5°  | 2072.9 | 2052.4 | 2016.4 | 1983.0 | 1953.4 | 1923.9 | 1905.9 | 1880.2 | 1877.6 | 1877.6 |
| 2121.8  | 5°    | 2087.1 | 2053.7 | 1989.4 | 1921.3 | 1842.9 | 1768.4 | 1693.8 | 1621.8 | 1598.7 | 1582.0 |
| 2175.7  | 7.5°  | 2128.2 | 2075.5 | 1974.0 | 1844.2 | 1695.1 | 1531.9 | 1417.5 | 1294.1 | 1246.6 | 1220.9 |
| 2247.7  | 10°   | 2187.3 | 2115.3 | 1961.1 | 1733.7 | 1492.0 | 1269.7 | 1106.5 | 972.8  | 921.4  | 899.6  |
| 2326.1  | 12.5° | 2252.8 | 2164.2 | 1938.0 | 1596.1 | 1269.7 | 1003.7 | 844.3  | 782.6  | 774.9  | 774.9  |
| 2419.9  | 15°   | 2331.2 | 2223.3 | 1898.1 | 1434.2 | 1037.1 | 794.2  | 737.7  | 740.2  | 748.0  | 753.1  |
| 2511.2  | 17.5° | 2412.2 | 2286.3 | 1835.2 | 1253.0 | 831.5  | 714.5  | 715.8  | 719.7  | 726.1  | 731.2  |
| 2610.1  | 20°   | 2499.6 | 2349.2 | 1751.6 | 1060.2 | 713.3  | 691.4  | 695.3  | 699.1  | 704.3  | 706.8  |
| 2702.6  | 22.5° | 2593.4 | 2408.3 | 1652.7 | 871.3  | 673.4  | 672.1  | 673.4  | 677.3  | 683.7  | 683.7  |
| 2810.6  | 25°   | 2693.7 | 2473.9 | 1539.6 | 733.8  | 652.9  | 652.9  | 655.4  | 658.0  | 663.1  | 663.1  |
| 2914.7  | 27.5° | 2796.5 | 2534.3 | 1420.1 | 661.8  | 634.9  | 633.6  | 633.6  | 637.4  | 640.0  | 641.3  |
| 3017.5  | 30°   | 2909.6 | 2605.0 | 1300.6 | 646.4  | 620.7  | 614.3  | 610.4  | 613.0  | 615.6  | 616.9  |
| 3125.5  | 32.5° | 3025.2 | 2673.1 | 1193.9 | 652.9  | 606.6  | 595.0  | 582.2  | 579.6  | 579.6  | 584.7  |
| 3237.3  | 35°   | 3153.7 | 2747.6 | 1111.6 | 674.7  | 598.9  | 566.7  | 546.2  | 534.6  | 535.9  | 543.6  |
| 3370.9  | 37.5° | 3307.9 | 2837.6 | 1051.2 | 694.0  | 593.7  | 534.6  | 501.2  | 487.1  | 478.1  | 487.1  |
| 3554.7  | 40°   | 3509.7 | 2970.0 | 1007.5 | 709.4  | 587.3  | 497.3  | 452.4  | 429.2  | 412.5  | 417.7  |
| 3840.0  | 42.5° | 3806.6 | 3178.1 | 990.8  | 710.7  | 573.2  | 453.7  | 402.2  | 371.4  | 347.0  | 348.3  |
| 4269.2  | 45°   | 4223.0 | 3507.1 | 1076.9 | 694.0  | 542.3  | 406.1  | 349.6  | 308.4  | 293.0  | 289.2  |
| 4910.5  | 47.5° | 4793.6 | 3986.5 | 1276.1 | 659.3  | 497.3  | 359.8  | 298.2  | 263.5  | 251.9  | 245.5  |
| 5752.3  | 50°   | 5558.2 | 4602.1 | 1497.2 | 620.7  | 452.4  | 316.1  | 255.7  | 233.9  | 226.2  | 219.8  |
| 6750.8  | 52.5° | 6445.0 | 5226.7 | 1678.4 | 582.2  | 407.4  | 277.6  | 228.8  | 215.9  | 209.5  | 204.3  |
| 7714.7  | 55°   | 7258.5 | 5657.2 | 1668.1 | 541.0  | 363.7  | 246.7  | 209.5  | 201.8  | 194.1  | 188.9  |
| 8544.9  | 57.5° | 7764.8 | 5717.6 | 1375.1 | 496.1  | 313.6  | 222.3  | 191.5  | 186.3  | 177.3  | 170.9  |
| 9263.3  | 60°   | 7997.4 | 5373.2 | 963.9  | 436.9  | 263.5  | 199.2  | 172.2  | 169.6  | 158.1  | 149.1  |
| 9943.1  | 62.5° | 8039.8 | 4733.2 | 642.6  | 363.7  | 219.8  | 177.3  | 152.9  | 149.1  | 133.7  | 118.2  |
| 10495.7 | 65°   | 7867.6 | 3818.1 | 444.7  | 284.0  | 187.6  | 154.2  | 131.1  | 123.4  | 106.7  | 91.2   |
| 10626.8 | 67.5° | 7322.7 | 2680.8 | 309.7  | 204.3  | 159.4  | 122.1  | 104.1  | 101.5  | 88.7   | 75.8   |
| 9958.5  | 70°   | 6324.2 | 1528.0 | 206.9  | 152.9  | 125.9  | 83.5   | 82.2   | 84.8   | 72.0   | 61.7   |
| 8136.2  | 72.5° | 4848.8 | 699.1  | 128.5  | 111.8  | 86.1   | 56.5   | 65.5   | 66.8   | 55.3   | 46.3   |
| 5076.3  | 75°   | 2854.3 | 299.4  | 81.0   | 72.0   | 43.7   | 37.3   | 47.6   | 48.8   | 37.3   | 29.6   |
| 1855.7  | 77.5° | 971.6  | 113.1  | 51.4   | 42.4   | 21.8   | 20.6   | 30.8   | 30.8   | 20.6   | 11.6   |
| 372.7   | 80°   | 221.0  | 42.4   | 25.7   | 16.7   | 10.3   | 9.0    | 10.3   | 9.0    | 5.1    | 1.3    |
| 114.4   | 82.5° | 63.0   | 16.7   | 10.3   | 6.4    | 3.9    | 3.9    | 1.3    | 0.0    | 0.0    | 0.0    |
| 39.8    | 85°   | 18.0   | 7.7    | 2.6    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14.1    | 87.5° | 7.7    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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> |
| 2062.6      |
| 1884.0      |
| 1589.7      |
| 1224.7      |
| 899.6       |
| 774.9       |
| 753.1       |
| 731.2       |
| 708.1       |
| 686.3       |
| 664.4       |
| 642.6       |
| 619.4       |
| 588.6       |
| 547.5       |
| 484.5       |
| 415.1       |
| 343.1       |
| 284.0       |
| 241.6       |
| 218.5       |
| 203.1       |
| 186.3       |
| 169.6       |
| 146.5       |
| 110.5       |
| 86.1        |
| 72.0        |
| 56.5        |
| 41.1        |
| 25.7        |
| 9.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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