

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: P954835

Luminaire Tested: **GALN-SB8A-722-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8A-722-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 22869 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
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



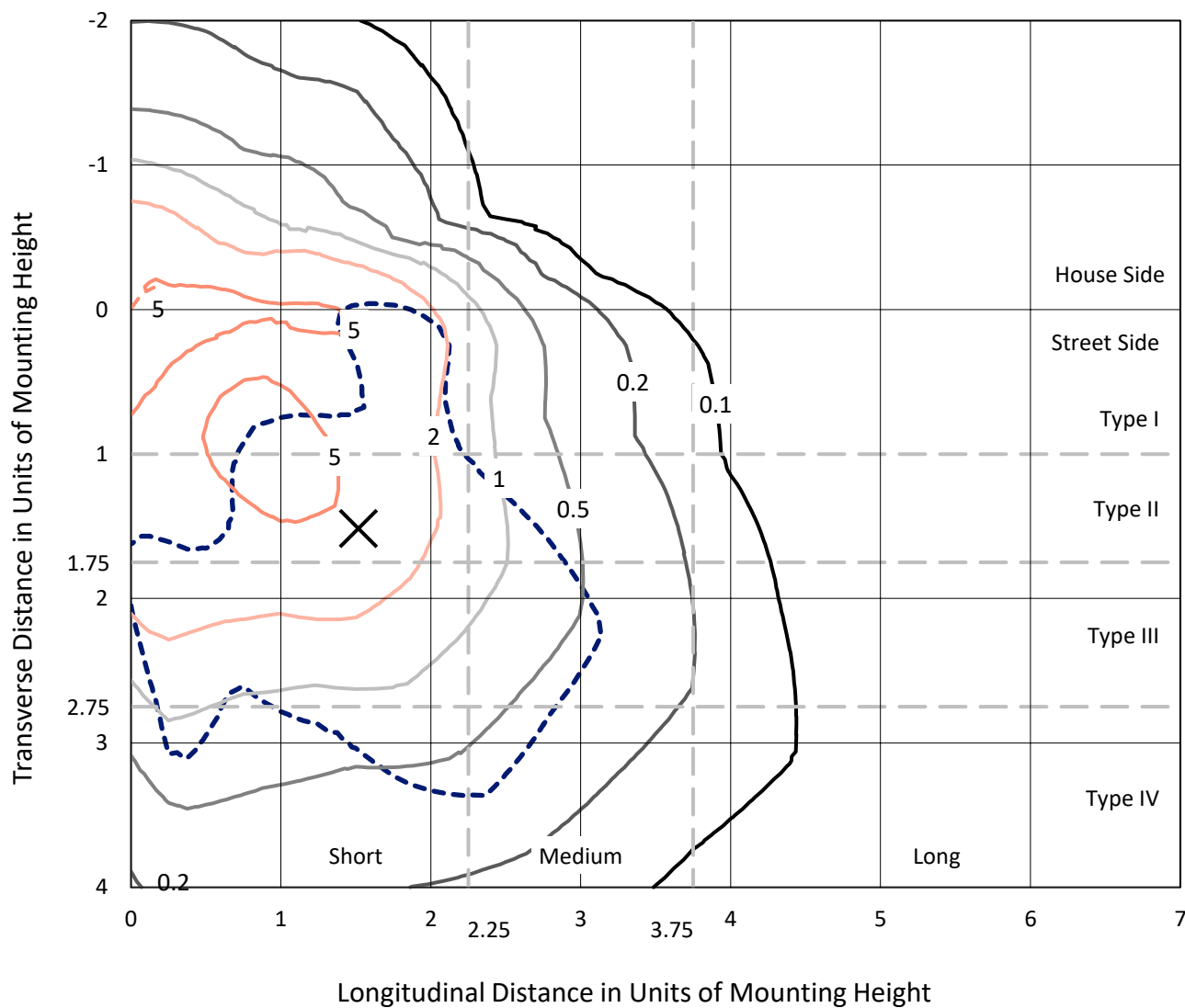
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## Iso-Footcandle Lines of Horizontal Illumination

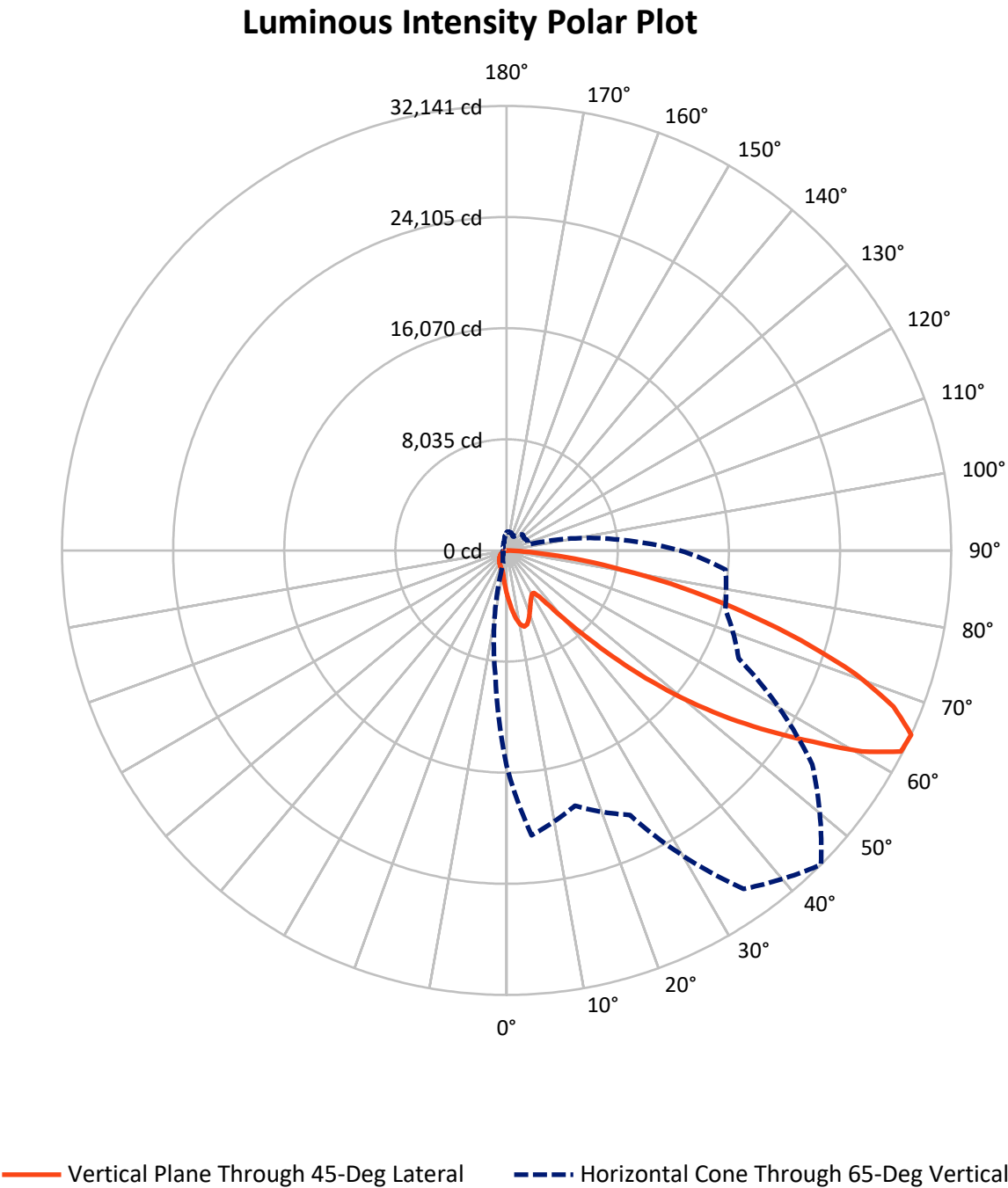
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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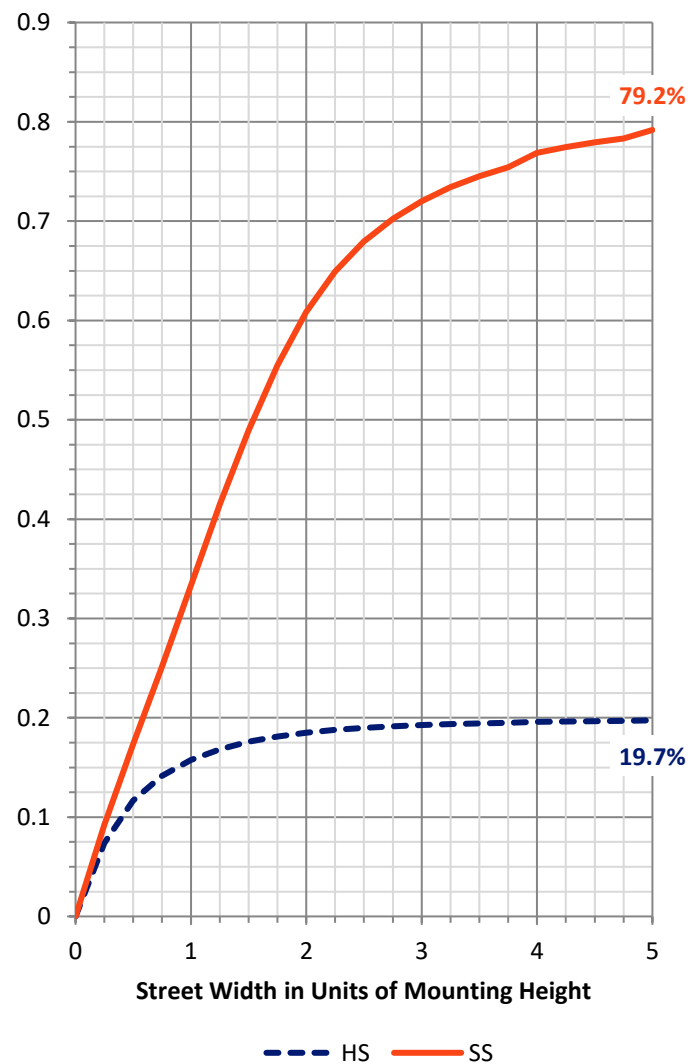
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4545.7   | 0.0    | 4545.7  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 18323.3  | 0.0    | 18323.3 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 22869.0  | 0.0    | 22869.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 311.8   | 1.4       |
| 10°-20°   | 934.6   | 4.1       |
| 20°-30°   | 1376.8  | 6.0       |
| 30°-40°   | 1768.8  | 7.7       |
| 40°-50°   | 2860.8  | 12.5      |
| 50°-60°   | 5016.6  | 21.9      |
| 60°-70°   | 6277.1  | 27.4      |
| 70°-80°   | 3668.1  | 16.0      |
| 80°-90°   | 654.4   | 2.9       |
| 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°    | 22869.0 | 100.0     |
| 0°-180°   | 22869.0 | 100.0     |

**Coefficient of Utilization**



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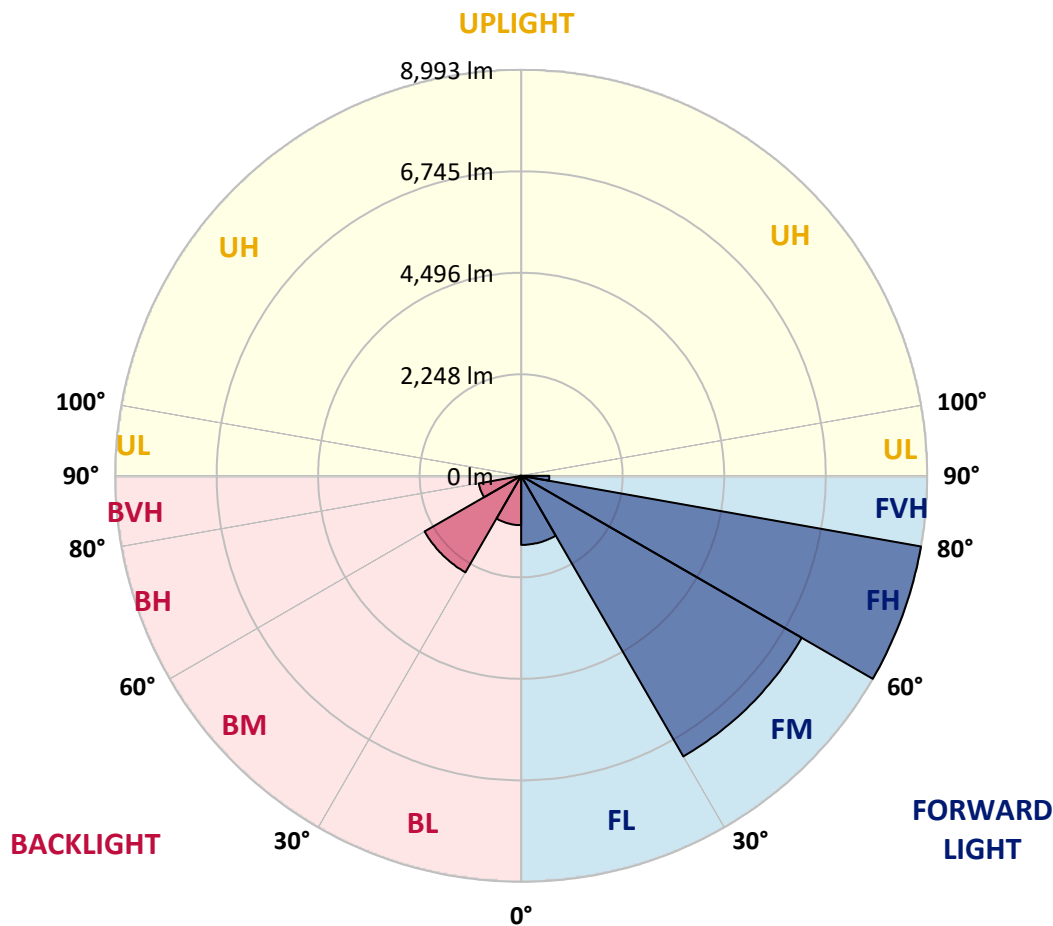
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1530.2 | 6.7       |                         |      |          |
| FM   | (30°-60°)   | 7176.6 | 31.4      |                         |      |          |
| FH   | (60°-80°)   | 8992.8 | 39.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 623.8  | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1093.0 | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2469.6 | 10.8      | B2/2500                 |      |          |
| BH   | (60°-80°)   | 952.4  | 4.2       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 30.7   | 0.1       |                         |      | G1/100   |
| 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°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3166.6  | 3166.6  | 3166.6  | 3166.6  | 3166.6  | 3166.6  | 3166.6  | 3166.6  | 3166.6  | 3166.6  | 3166.6  |
| 2.5°  | 3547.9  | 3574.7  | 3634.5  | 3666.0  | 3714.9  | 3718.0  | 3718.0  | 3675.5  | 3673.9  | 3587.3  | 3577.8  |
| 5°    | 3965.4  | 4028.4  | 4170.2  | 4316.7  | 4348.2  | 4356.1  | 4340.3  | 4255.3  | 4192.2  | 4023.7  | 3987.4  |
| 7.5°  | 4379.7  | 4501.0  | 4716.9  | 4912.2  | 4975.2  | 4975.2  | 4937.4  | 4798.8  | 4669.6  | 4425.4  | 4334.0  |
| 10°   | 4723.2  | 4876.0  | 5169.0  | 5388.0  | 5460.5  | 5444.7  | 5367.5  | 5192.6  | 5014.6  | 4718.4  | 4598.7  |
| 12.5° | 4950.0  | 5121.7  | 5443.1  | 5619.6  | 5693.6  | 5652.7  | 5564.4  | 5394.3  | 5206.8  | 4894.9  | 4759.4  |
| 15°   | 5063.4  | 5243.0  | 5521.9  | 5614.9  | 5594.4  | 5551.8  | 5540.8  | 5458.9  | 5317.1  | 5025.6  | 4877.5  |
| 17.5° | 5112.3  | 5279.3  | 5473.1  | 5414.8  | 5241.5  | 5208.4  | 5318.7  | 5422.6  | 5388.0  | 5139.1  | 5000.4  |
| 20°   | 5158.0  | 5298.2  | 5356.5  | 5098.1  | 4795.6  | 4765.7  | 4976.8  | 5273.0  | 5424.2  | 5244.6  | 5117.0  |
| 22.5° | 5221.0  | 5307.6  | 5187.9  | 4764.1  | 4438.0  | 4368.7  | 4601.8  | 5047.7  | 5435.3  | 5378.5  | 5250.9  |
| 25°   | 5307.6  | 5331.3  | 5002.0  | 4447.5  | 4119.8  | 4050.4  | 4267.9  | 4797.2  | 5416.3  | 5523.5  | 5414.8  |
| 27.5° | 5411.6  | 5362.8  | 4824.0  | 4182.8  | 3866.1  | 3801.5  | 4018.9  | 4556.2  | 5362.8  | 5668.4  | 5591.2  |
| 30°   | 5547.1  | 5403.7  | 4647.5  | 3978.0  | 3684.9  | 3637.7  | 3847.2  | 4348.2  | 5296.6  | 5852.7  | 5810.2  |
| 32.5° | 5684.2  | 5421.1  | 4483.7  | 3858.2  | 3644.0  | 3661.3  | 3833.0  | 4236.3  | 5224.1  | 6029.2  | 6049.7  |
| 35°   | 5832.3  | 5476.2  | 4403.3  | 3976.4  | 3985.9  | 4137.1  | 4208.0  | 4340.3  | 5213.1  | 6268.7  | 6349.0  |
| 37.5° | 6033.9  | 5599.1  | 4499.4  | 4564.0  | 4891.7  | 5205.2  | 5146.9  | 4849.2  | 5340.7  | 6626.3  | 6775.9  |
| 40°   | 6323.8  | 5814.9  | 4918.5  | 5564.4  | 6237.1  | 6746.0  | 6523.9  | 5774.0  | 5731.4  | 7141.4  | 7365.2  |
| 42.5° | 6746.0  | 6158.4  | 5662.1  | 6787.0  | 7927.6  | 8765.7  | 8170.2  | 6966.6  | 6415.2  | 7877.2  | 8162.3  |
| 45°   | 7369.9  | 6714.5  | 6561.7  | 8077.3  | 10011.9 | 11332.1 | 10093.8 | 8238.0  | 7373.0  | 8991.0  | 9214.7  |
| 47.5° | 8234.8  | 7532.2  | 7404.5  | 9436.9  | 12545.2 | 14253.0 | 12227.0 | 9416.4  | 8463.2  | 10509.7 | 10561.7 |
| 50°   | 9383.3  | 8633.4  | 8203.3  | 10924.1 | 15322.7 | 17230.5 | 14358.5 | 10553.8 | 9712.6  | 12365.6 | 12305.7 |
| 52.5° | 10898.9 | 10169.4 | 9134.4  | 12340.4 | 18178.9 | 20145.1 | 16499.5 | 11552.7 | 11262.8 | 14519.2 | 14396.3 |
| 55°   | 12965.8 | 12480.6 | 10407.3 | 13692.1 | 21033.6 | 23077.0 | 18557.1 | 12494.8 | 13310.9 | 17077.7 | 16334.1 |
| 57.5° | 15530.6 | 15877.2 | 12242.7 | 15259.7 | 23600.0 | 26098.7 | 20624.0 | 13811.8 | 15970.2 | 19938.7 | 17459.0 |
| 60°   | 17184.8 | 20394.0 | 15757.5 | 17577.1 | 26516.1 | 29515.8 | 23456.7 | 16316.8 | 18765.0 | 20964.3 | 17244.7 |
| 62.5° | 16784.7 | 21830.8 | 19967.1 | 20535.8 | 29197.5 | 32000.2 | 26232.6 | 18832.8 | 19291.2 | 19453.5 | 15593.7 |
| 65°   | 15557.4 | 20671.3 | 19108.5 | 21110.8 | 29876.6 | 32140.5 | 26974.6 | 18508.2 | 16364.0 | 15882.0 | 12534.2 |
| 67.5° | 13868.6 | 19295.9 | 17068.3 | 19585.8 | 28649.3 | 30180.6 | 25592.9 | 16371.9 | 12646.0 | 11918.2 | 9093.4  |
| 70°   | 12045.8 | 17774.1 | 15729.1 | 17874.9 | 26309.8 | 26765.1 | 23244.0 | 14399.5 | 9301.4  | 8048.9  | 5835.4  |
| 72.5° | 10315.9 | 16189.2 | 14812.2 | 16121.4 | 23188.8 | 22246.7 | 20186.1 | 12655.5 | 6772.8  | 5805.5  | 4148.1  |
| 75°   | 8546.7  | 13851.2 | 13506.2 | 14038.7 | 19084.8 | 17523.6 | 16772.1 | 10478.2 | 5315.5  | 4200.1  | 2862.6  |
| 77.5° | 6594.8  | 10823.2 | 11617.3 | 11242.3 | 13433.7 | 13016.2 | 13000.5 | 7874.0  | 3883.4  | 2802.7  | 1794.4  |
| 80°   | 4513.6  | 7543.2  | 9076.1  | 7930.7  | 8718.5  | 8505.8  | 9791.3  | 5282.4  | 2816.9  | 1687.3  | 998.8   |
| 82.5° | 2653.0  | 4592.4  | 6317.5  | 3839.3  | 4820.8  | 4948.4  | 5830.7  | 2569.5  | 1657.4  | 389.1   | 217.4   |
| 85°   | 1076.0  | 1813.3  | 2470.3  | 1503.0  | 2325.3  | 1961.4  | 2213.5  | 721.5   | 461.6   | 9.5     | 0.0     |
| 87.5° | 271.0   | 579.8   | 406.5   | 168.6   | 269.4   | 247.3   | 195.4   | 88.2    | 18.9    | 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     | 0.0     |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3166.6  | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 |
| 2.5°  | 3516.4  | 3480.1 | 3390.3 | 3300.5 | 3228.1 | 3130.4 | 3065.8 | 2988.6 | 2914.6 | 2848.4 | 2835.8 |
| 5°    | 3888.2  | 3768.4 | 3604.6 | 3454.9 | 3302.1 | 3154.0 | 3007.5 | 2853.1 | 2711.3 | 2624.7 | 2569.5 |
| 7.5°  | 4190.7  | 3979.5 | 3762.1 | 3571.5 | 3387.2 | 3213.9 | 3020.1 | 2832.6 | 2610.5 | 2492.3 | 2385.2 |
| 10°   | 4415.9  | 4138.7 | 3853.5 | 3634.5 | 3448.6 | 3280.1 | 3116.2 | 2927.2 | 2659.3 | 2511.2 | 2350.5 |
| 12.5° | 4564.0  | 4234.8 | 3900.8 | 3650.3 | 3442.3 | 3311.6 | 3239.1 | 3165.0 | 2898.8 | 2725.5 | 2492.3 |
| 15°   | 4666.4  | 4302.5 | 3933.9 | 3614.0 | 3358.8 | 3262.7 | 3335.2 | 3420.3 | 3250.1 | 3050.0 | 2746.0 |
| 17.5° | 4778.3  | 4390.7 | 3948.0 | 3516.4 | 3196.6 | 3155.6 | 3343.1 | 3540.0 | 3532.1 | 3333.6 | 3035.9 |
| 20°   | 4896.5  | 4467.9 | 3938.6 | 3358.8 | 2999.6 | 3035.9 | 3275.3 | 3503.8 | 3599.9 | 3492.7 | 3228.1 |
| 22.5° | 5017.8  | 4542.0 | 3902.4 | 3154.0 | 2815.3 | 2928.7 | 3168.2 | 3368.3 | 3481.7 | 3448.6 | 3247.0 |
| 25°   | 5170.6  | 4646.0 | 3848.8 | 2933.5 | 2662.5 | 2820.0 | 3043.7 | 3206.0 | 3284.8 | 3283.2 | 3144.6 |
| 27.5° | 5353.3  | 4784.6 | 3820.4 | 2755.4 | 2553.8 | 2697.1 | 2895.6 | 3040.6 | 3095.7 | 3095.7 | 2985.4 |
| 30°   | 5566.0  | 4948.4 | 3788.9 | 2638.9 | 2490.8 | 2569.5 | 2723.9 | 2865.7 | 2920.9 | 2920.9 | 2827.9 |
| 32.5° | 5802.3  | 5106.0 | 3713.3 | 2568.0 | 2443.5 | 2445.1 | 2542.8 | 2671.9 | 2738.1 | 2747.6 | 2681.4 |
| 35°   | 6085.9  | 5274.6 | 3547.9 | 2511.2 | 2388.4 | 2323.8 | 2371.0 | 2478.2 | 2556.9 | 2577.4 | 2536.5 |
| 37.5° | 6457.7  | 5480.9 | 3311.6 | 2427.7 | 2303.3 | 2196.2 | 2207.2 | 2289.1 | 2375.8 | 2407.3 | 2380.5 |
| 40°   | 6957.1  | 5723.6 | 3065.8 | 2308.0 | 2183.6 | 2055.9 | 2051.2 | 2111.1 | 2196.2 | 2230.8 | 2216.6 |
| 42.5° | 7617.2  | 6015.0 | 2831.1 | 2193.0 | 2038.6 | 1907.9 | 1900.0 | 1947.2 | 2021.3 | 2057.5 | 2051.2 |
| 45°   | 8461.7  | 6372.6 | 2629.4 | 2103.2 | 1896.8 | 1767.6 | 1764.5 | 1803.9 | 1868.5 | 1906.3 | 1898.4 |
| 47.5° | 9635.4  | 6730.3 | 2492.3 | 2055.9 | 1785.0 | 1652.6 | 1658.9 | 1693.6 | 1751.9 | 1778.7 | 1767.6 |
| 50°   | 11165.1 | 6839.0 | 2423.0 | 2055.9 | 1725.1 | 1550.2 | 1581.7 | 1610.1 | 1654.2 | 1670.0 | 1655.8 |
| 52.5° | 12633.4 | 6479.8 | 2360.0 | 2068.5 | 1733.0 | 1463.6 | 1531.3 | 1551.8 | 1589.6 | 1595.9 | 1575.4 |
| 55°   | 13353.4 | 5570.7 | 2273.4 | 2071.7 | 1781.8 | 1389.5 | 1490.4 | 1528.2 | 1542.4 | 1540.8 | 1506.1 |
| 57.5° | 13106.0 | 4504.2 | 2126.8 | 2059.1 | 1814.9 | 1342.3 | 1439.9 | 1512.4 | 1521.9 | 1507.7 | 1443.1 |
| 60°   | 12238.0 | 3316.3 | 2015.0 | 1966.1 | 1802.3 | 1328.1 | 1362.8 | 1477.8 | 1491.9 | 1473.0 | 1367.5 |
| 62.5° | 10782.3 | 2301.7 | 1928.3 | 1761.3 | 1747.2 | 1323.4 | 1241.4 | 1402.1 | 1436.8 | 1410.0 | 1255.6 |
| 65°   | 8488.4  | 1625.8 | 1660.5 | 1543.9 | 1627.4 | 1298.2 | 1115.4 | 1310.8 | 1358.0 | 1317.1 | 1099.7 |
| 67.5° | 5744.0  | 1173.7 | 1345.4 | 1399.0 | 1433.6 | 1241.4 | 1024.0 | 1206.8 | 1269.8 | 1216.2 | 918.5  |
| 70°   | 3102.0  | 824.0  | 888.5  | 1178.4 | 1217.8 | 1143.8 | 942.1  | 1101.2 | 1173.7 | 1115.4 | 748.3  |
| 72.5° | 1832.2  | 592.4  | 622.3  | 946.8  | 1014.6 | 1006.7 | 850.7  | 978.3  | 1066.6 | 997.3  | 608.1  |
| 75°   | 1009.9  | 400.2  | 444.3  | 686.9  | 824.0  | 776.7  | 731.0  | 828.7  | 918.5  | 850.7  | 469.5  |
| 77.5° | 452.1   | 239.5  | 308.8  | 450.6  | 647.5  | 532.5  | 565.6  | 645.9  | 729.4  | 658.5  | 313.5  |
| 80°   | 174.9   | 133.9  | 204.8  | 245.8  | 471.1  | 294.6  | 363.9  | 475.8  | 535.6  | 478.9  | 190.6  |
| 82.5° | 22.1    | 59.9   | 88.2   | 96.1   | 274.1  | 156.0  | 211.1  | 299.3  | 294.6  | 255.2  | 96.1   |
| 85°   | 0.0     | 11.0   | 12.6   | 6.3    | 118.2  | 56.7   | 69.3   | 97.7   | 91.4   | 69.3   | 7.9    |
| 87.5° | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.2    | 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    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 |
| 2.5°  | 2758.6 | 2701.9 | 2673.5 | 2649.9 | 2671.9 | 2684.5 | 2684.5 | 2738.1 | 2769.6 | 2782.2 | 2870.4 |
| 5°    | 2430.9 | 2325.3 | 2254.4 | 2211.9 | 2226.1 | 2241.8 | 2259.2 | 2326.9 | 2372.6 | 2402.5 | 2539.6 |
| 7.5°  | 2172.5 | 2011.8 | 1912.6 | 1860.6 | 1868.5 | 1879.5 | 1893.7 | 1959.8 | 2005.5 | 2044.9 | 2197.7 |
| 10°   | 2044.9 | 1818.1 | 1687.3 | 1624.3 | 1613.2 | 1606.9 | 1602.2 | 1641.6 | 1676.3 | 1707.8 | 1859.0 |
| 12.5° | 2051.2 | 1734.6 | 1575.4 | 1498.2 | 1465.2 | 1427.3 | 1397.4 | 1403.7 | 1425.8 | 1465.2 | 1561.3 |
| 15°   | 2131.6 | 1707.8 | 1517.1 | 1421.0 | 1365.9 | 1321.8 | 1285.6 | 1277.7 | 1285.6 | 1291.9 | 1351.7 |
| 17.5° | 2240.3 | 1704.6 | 1466.7 | 1347.0 | 1290.3 | 1254.0 | 1221.0 | 1209.9 | 1211.5 | 1219.4 | 1235.1 |
| 20°   | 2326.9 | 1695.2 | 1410.0 | 1276.1 | 1225.7 | 1194.2 | 1161.1 | 1150.1 | 1153.2 | 1154.8 | 1172.1 |
| 22.5° | 2372.6 | 1681.0 | 1347.0 | 1205.2 | 1162.7 | 1131.2 | 1101.2 | 1099.7 | 1099.7 | 1109.1 | 1121.7 |
| 25°   | 2372.6 | 1651.1 | 1290.3 | 1137.5 | 1099.7 | 1071.3 | 1035.1 | 1041.4 | 1044.5 | 1057.1 | 1076.0 |
| 27.5° | 2315.9 | 1594.3 | 1244.6 | 1079.2 | 1039.8 | 1011.4 | 978.3  | 986.2  | 990.9  | 1005.1 | 1028.8 |
| 30°   | 2243.4 | 1526.6 | 1192.6 | 1024.0 | 978.3  | 957.9  | 929.5  | 932.7  | 939.0  | 954.7  | 981.5  |
| 32.5° | 2166.2 | 1446.2 | 1150.1 | 968.9  | 923.2  | 907.5  | 875.9  | 880.7  | 887.0  | 904.3  | 934.2  |
| 35°   | 2081.1 | 1351.7 | 1099.7 | 918.5  | 872.8  | 860.2  | 824.0  | 827.1  | 836.6  | 855.5  | 885.4  |
| 37.5° | 1991.4 | 1274.5 | 1049.2 | 869.6  | 822.4  | 809.8  | 772.0  | 775.1  | 786.1  | 808.2  | 836.6  |
| 40°   | 1903.1 | 1198.9 | 995.7  | 817.7  | 770.4  | 759.4  | 718.4  | 721.5  | 734.2  | 757.8  | 787.7  |
| 42.5° | 1807.0 | 1140.6 | 926.4  | 764.1  | 713.7  | 702.6  | 664.8  | 669.6  | 683.7  | 707.4  | 737.3  |
| 45°   | 1692.0 | 1102.8 | 849.2  | 713.7  | 657.0  | 645.9  | 611.3  | 620.7  | 636.5  | 660.1  | 691.6  |
| 47.5° | 1573.9 | 1087.1 | 784.6  | 660.1  | 598.7  | 589.2  | 560.9  | 576.6  | 593.9  | 612.8  | 647.5  |
| 50°   | 1460.4 | 1066.6 | 718.4  | 609.7  | 548.3  | 538.8  | 519.9  | 540.4  | 557.7  | 575.0  | 608.1  |
| 52.5° | 1331.2 | 1022.5 | 658.5  | 565.6  | 505.7  | 502.6  | 493.1  | 512.0  | 527.8  | 543.5  | 571.9  |
| 55°   | 1197.3 | 951.6  | 606.5  | 526.2  | 469.5  | 472.6  | 467.9  | 483.7  | 496.3  | 510.4  | 535.6  |
| 57.5° | 1080.7 | 861.8  | 565.6  | 483.7  | 438.0  | 447.4  | 441.1  | 449.0  | 456.9  | 474.2  | 494.7  |
| 60°   | 962.6  | 754.6  | 519.9  | 433.2  | 406.5  | 417.5  | 400.2  | 398.6  | 401.7  | 406.5  | 444.3  |
| 62.5° | 803.5  | 642.8  | 463.2  | 389.1  | 371.8  | 376.5  | 343.4  | 318.2  | 318.2  | 323.0  | 379.7  |
| 65°   | 645.9  | 538.8  | 400.2  | 338.7  | 324.5  | 321.4  | 274.1  | 239.5  | 236.3  | 250.5  | 299.3  |
| 67.5° | 530.9  | 447.4  | 337.1  | 282.0  | 272.6  | 275.7  | 241.0  | 206.4  | 203.2  | 219.0  | 255.2  |
| 70°   | 439.5  | 360.8  | 269.4  | 217.4  | 226.9  | 241.0  | 206.4  | 173.3  | 168.6  | 182.8  | 217.4  |
| 72.5° | 349.7  | 282.0  | 206.4  | 160.7  | 187.5  | 204.8  | 168.6  | 137.1  | 133.9  | 146.5  | 179.6  |
| 75°   | 256.8  | 201.7  | 140.2  | 116.6  | 144.9  | 160.7  | 122.9  | 97.7   | 93.0   | 104.0  | 137.1  |
| 77.5° | 159.1  | 113.4  | 88.2   | 69.3   | 99.3   | 107.1  | 64.6   | 56.7   | 55.1   | 63.0   | 86.6   |
| 80°   | 74.0   | 48.8   | 42.5   | 23.6   | 36.2   | 42.5   | 26.8   | 29.9   | 31.5   | 37.8   | 53.6   |
| 82.5° | 20.5   | 7.9    | 1.6    | 0.0    | 0.0    | 12.6   | 6.3    | 12.6   | 15.8   | 23.6   | 34.7   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.2    | 7.9    | 14.2   | 25.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.3    | 12.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| 0°    | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6 | 3166.6  | 3166.6  |
| 2.5°  | 2936.6 | 2999.6 | 3100.5 | 3204.4 | 3306.8 | 3410.8 | 3511.6  | 3547.9  |
| 5°    | 2664.1 | 2809.0 | 3009.1 | 3223.3 | 3443.9 | 3667.6 | 3872.4  | 3965.4  |
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| 17.5° | 1274.5 | 1433.6 | 1857.4 | 2500.2 | 3306.8 | 4135.5 | 4844.5  | 5112.3  |
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| 22.5° | 1121.7 | 1132.7 | 1238.3 | 1843.3 | 3005.9 | 4063.0 | 4931.1  | 5221.0  |
| 25°   | 1076.0 | 1079.2 | 1107.5 | 1460.4 | 2755.4 | 4052.0 | 5016.2  | 5307.6  |
| 27.5° | 1030.3 | 1030.3 | 1046.1 | 1176.9 | 2415.1 | 4004.8 | 5126.5  | 5411.6  |
| 30°   | 984.6  | 984.6  | 995.7  | 1041.4 | 2016.6 | 3911.8 | 5258.8  | 5547.1  |
| 32.5° | 937.4  | 937.4  | 946.8  | 979.9  | 1610.1 | 3795.2 | 5380.1  | 5684.2  |
| 35°   | 890.1  | 887.0  | 899.6  | 934.2  | 1280.8 | 3647.1 | 5501.4  | 5832.3  |
| 37.5° | 839.7  | 838.1  | 850.7  | 890.1  | 1106.0 | 3475.4 | 5592.8  | 6033.9  |
| 40°   | 786.1  | 786.1  | 800.3  | 842.9  | 1055.5 | 3259.6 | 5737.7  | 6323.8  |
| 42.5° | 737.3  | 734.2  | 749.9  | 801.9  | 1017.7 | 3053.2 | 5997.7  | 6746.0  |
| 45°   | 690.0  | 683.7  | 697.9  | 762.5  | 951.6  | 2980.7 | 6482.9  | 7369.9  |
| 47.5° | 645.9  | 630.2  | 642.8  | 715.2  | 891.7  | 3251.7 | 7276.9  | 8234.8  |
| 50°   | 609.7  | 579.8  | 590.8  | 668.0  | 846.0  | 3839.3 | 8307.3  | 9383.3  |
| 52.5° | 571.9  | 532.5  | 538.8  | 609.7  | 805.0  | 4398.6 | 9424.3  | 10898.9 |
| 55°   | 532.5  | 488.4  | 491.5  | 551.4  | 746.8  | 4482.1 | 10514.5 | 12965.8 |
| 57.5° | 488.4  | 447.4  | 447.4  | 497.8  | 704.2  | 3885.0 | 11352.6 | 15530.6 |
| 60°   | 439.5  | 412.8  | 404.9  | 455.3  | 742.0  | 2741.3 | 11450.3 | 17184.8 |
| 62.5° | 386.0  | 371.8  | 360.8  | 414.3  | 770.4  | 1624.3 | 10664.1 | 16784.7 |
| 65°   | 324.5  | 321.4  | 313.5  | 455.3  | 649.1  | 959.4  | 9154.9  | 15557.4 |
| 67.5° | 272.6  | 267.8  | 267.8  | 477.4  | 493.1  | 603.4  | 7152.5  | 13868.6 |
| 70°   | 234.7  | 217.4  | 217.4  | 360.8  | 299.3  | 417.5  | 4994.1  | 12045.8 |
| 72.5° | 196.9  | 178.0  | 165.4  | 288.3  | 223.7  | 305.6  | 3120.9  | 10315.9 |
| 75°   | 157.5  | 143.4  | 127.6  | 190.6  | 167.0  | 231.6  | 1813.3  | 8546.7  |
| 77.5° | 113.4  | 107.1  | 89.8   | 140.2  | 121.3  | 167.0  | 1079.2  | 6594.8  |
| 80°   | 58.3   | 59.9   | 56.7   | 80.3   | 81.9   | 113.4  | 614.4   | 4513.6  |
| 82.5° | 34.7   | 26.8   | 29.9   | 39.4   | 47.3   | 64.6   | 231.6   | 2653.0  |
| 85°   | 22.1   | 14.2   | 14.2   | 18.9   | 23.6   | 25.2   | 70.9    | 1076.0  |
| 87.5° | 11.0   | 4.7    | 6.3    | 9.5    | 7.9    | 6.3    | 3.2     | 271.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

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