

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: P953787

Luminaire Tested: **GALN-SB7B-727-U-SLR-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953787  
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-SB7B-727-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 28348 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 256.7  
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

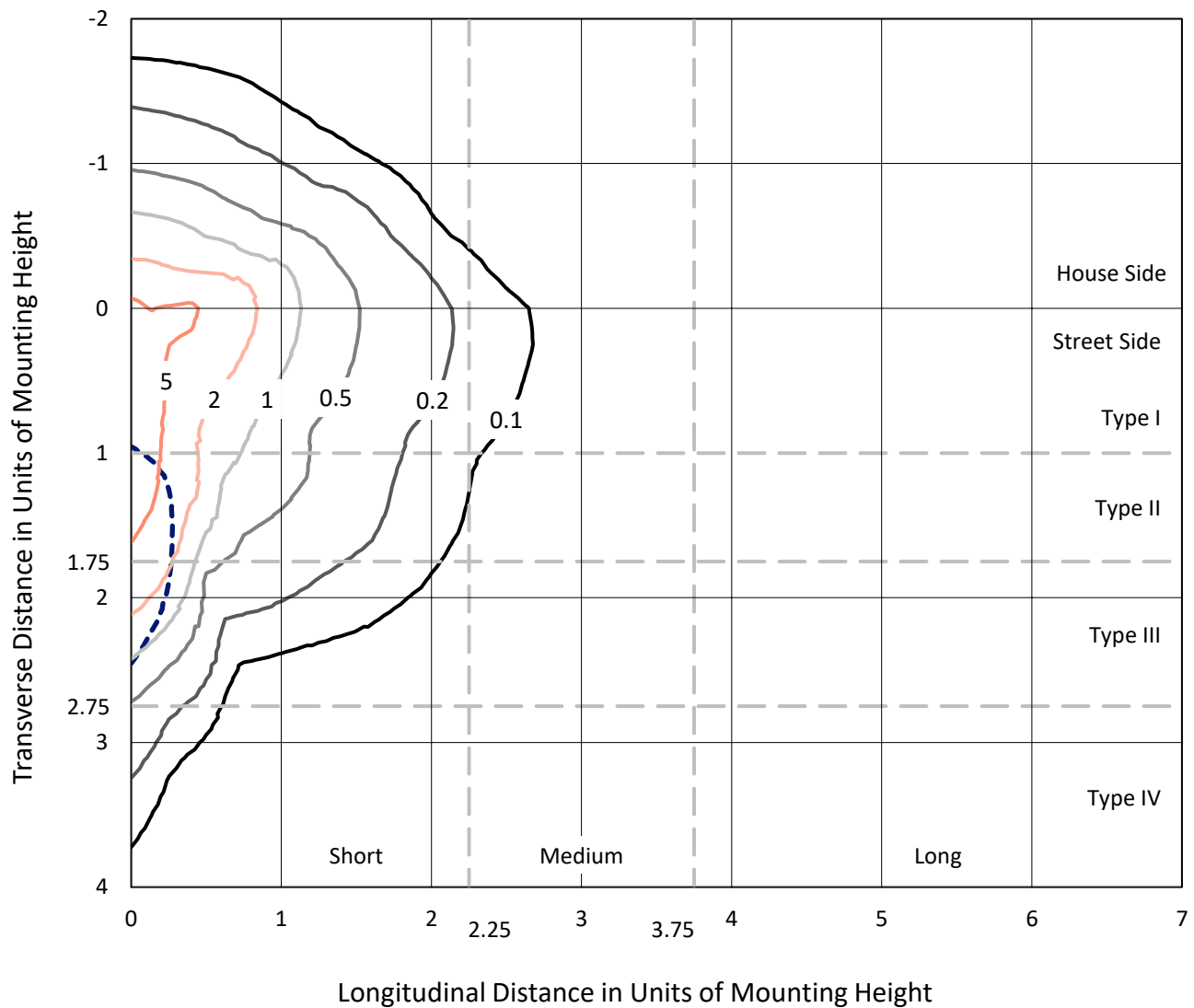


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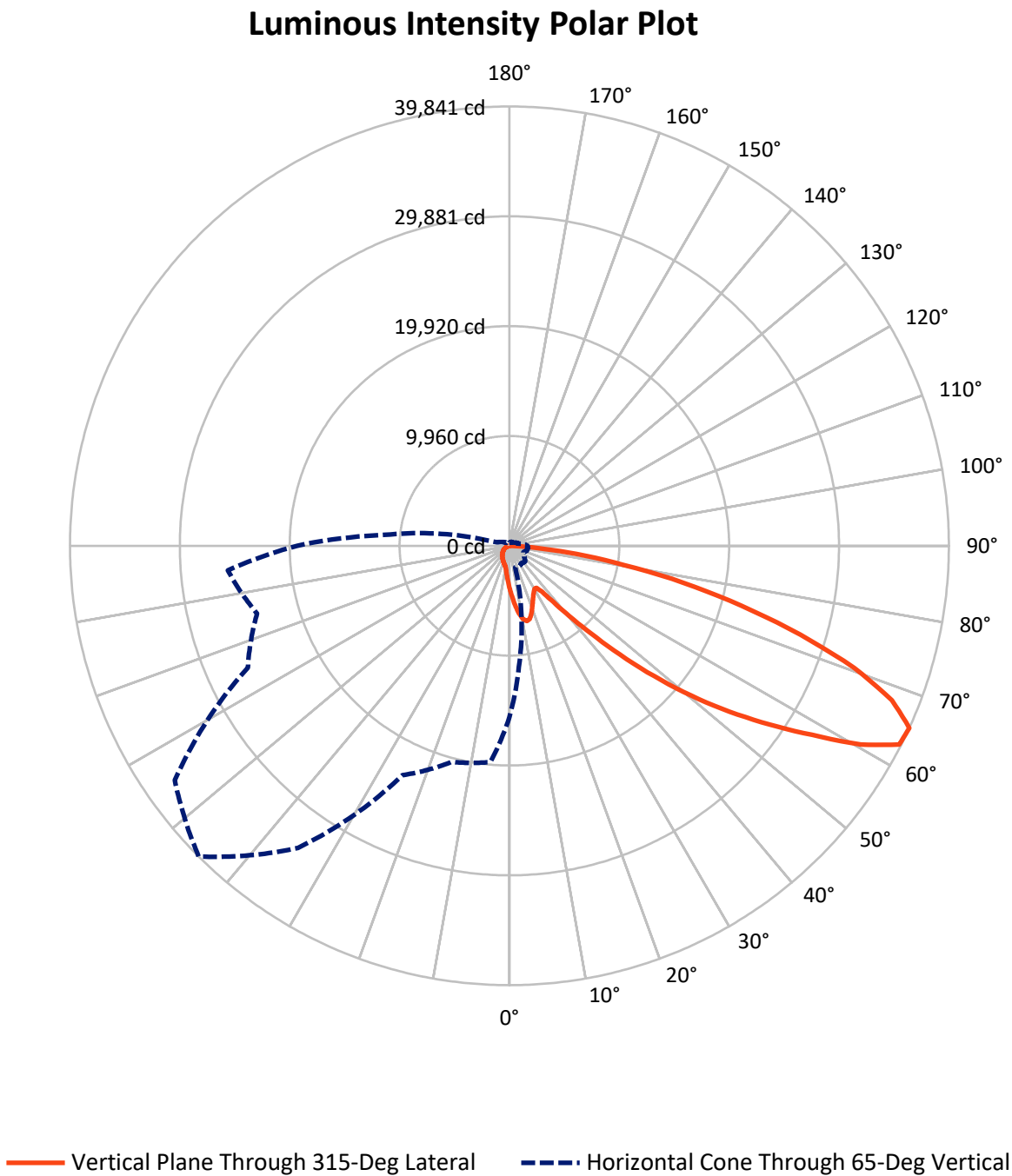
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
Type IV - Short - N/A

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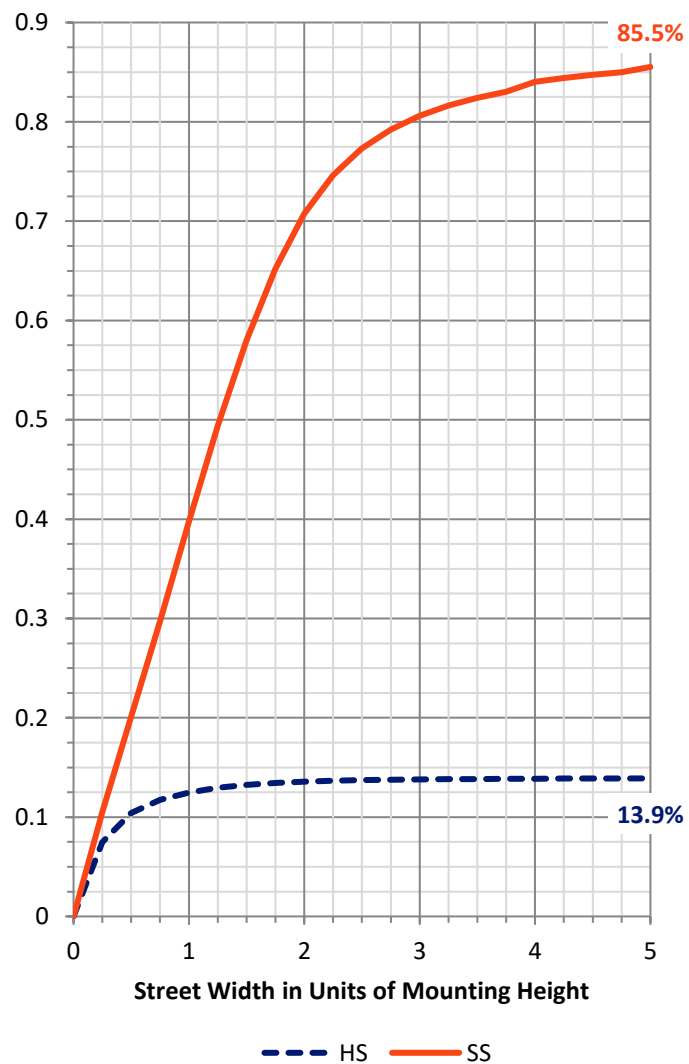
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3969.9   | 0.0    | 3969.9  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 24378.1  | 0.0    | 24378.1 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 28348.0  | 0.0    | 28348.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 386.5   | 1.4       |
| 10°-20°   | 1158.5  | 4.1       |
| 20°-30°   | 1706.7  | 6.0       |
| 30°-40°   | 2192.6  | 7.7       |
| 40°-50°   | 3546.1  | 12.5      |
| 50°-60°   | 6218.5  | 21.9      |
| 60°-70°   | 7781.0  | 27.4      |
| 70°-80°   | 4546.9  | 16.0      |
| 80°-90°   | 811.2   | 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°    | 28348.0 | 100.0     |
| 0°-180°   | 28348.0 | 100.0     |

**Coefficient of Utilization**



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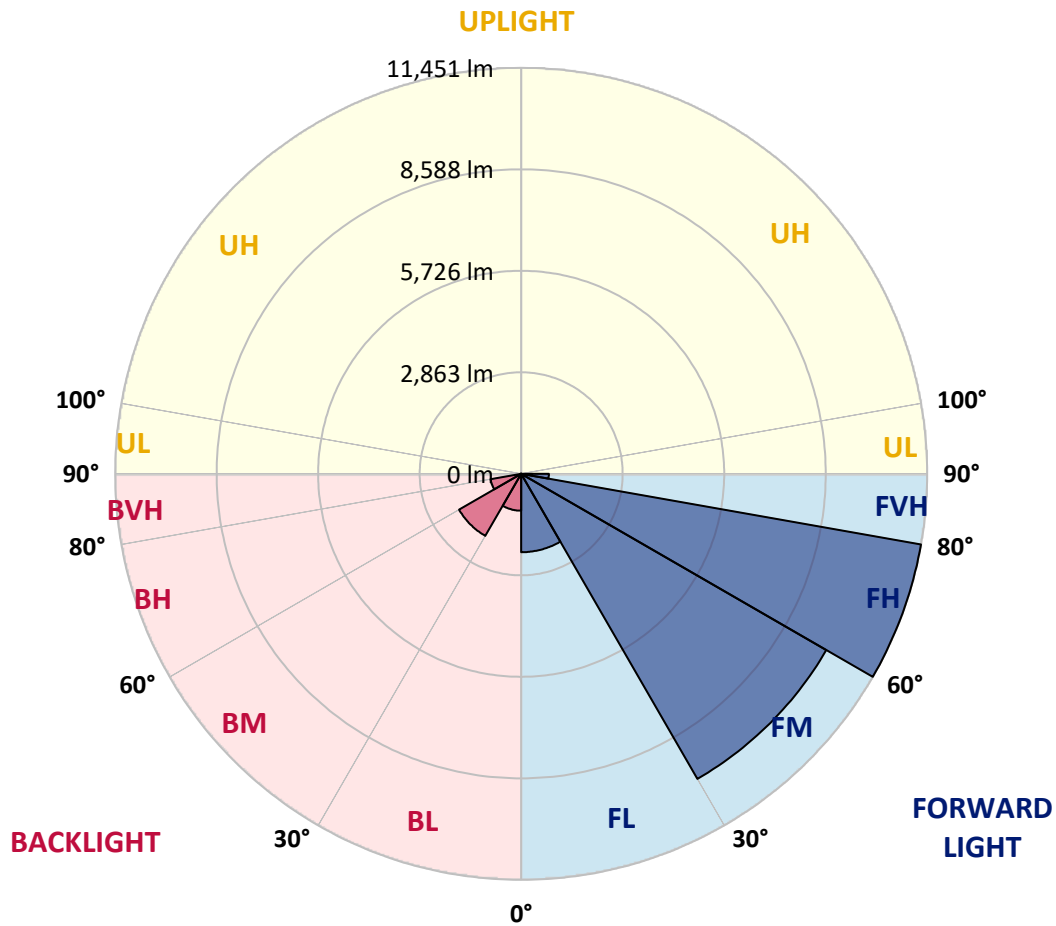
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2211.0  | 7.8       |                         |      |          |
| FM   | (30°-60°)   | 9935.7  | 35.0      |                         |      |          |
| FH   | (60°-80°)   | 11451.3 | 40.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 780.1   | 2.8       |                         |      | G5       |
| BL   | (0°-30°)    | 1040.6  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2021.6  | 7.1       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 876.6   | 3.1       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 31.2    | 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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3925.3  | 3925.3  | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 |
| 2.5°  | 4435.0  | 4358.8  | 4313.9 | 4202.6 | 4091.3 | 4001.5 | 3880.4 | 3800.3 | 3704.6 | 3612.8 | 3530.8 |
| 5°    | 4942.7  | 4819.7  | 4671.3 | 4468.2 | 4282.7 | 4093.2 | 3909.7 | 3728.0 | 3536.7 | 3360.9 | 3253.5 |
| 7.5°  | 5372.4  | 5194.7  | 4933.0 | 4663.5 | 4427.2 | 4198.7 | 3983.9 | 3743.7 | 3511.3 | 3235.9 | 3089.5 |
| 10°   | 5700.5  | 5473.9  | 5130.2 | 4776.7 | 4505.3 | 4274.9 | 4065.9 | 3862.8 | 3628.5 | 3296.5 | 3112.9 |
| 12.5° | 5899.7  | 5657.5  | 5249.3 | 4835.3 | 4524.8 | 4267.0 | 4105.0 | 4015.1 | 3923.3 | 3593.3 | 3378.5 |
| 15°   | 6046.1  | 5784.4  | 5333.3 | 4876.3 | 4479.9 | 4163.5 | 4044.4 | 4134.2 | 4239.7 | 4028.8 | 3780.8 |
| 17.5° | 6198.4  | 5923.1  | 5442.7 | 4893.9 | 4358.8 | 3962.4 | 3911.6 | 4144.0 | 4388.1 | 4378.4 | 4132.3 |
| 20°   | 6343.0  | 6069.6  | 5538.4 | 4882.2 | 4163.5 | 3718.3 | 3763.2 | 4060.0 | 4343.2 | 4462.3 | 4329.5 |
| 22.5° | 6509.0  | 6219.9  | 5630.2 | 4837.3 | 3909.7 | 3489.8 | 3630.4 | 3927.2 | 4175.3 | 4315.9 | 4274.9 |
| 25°   | 6712.1  | 6409.4  | 5759.0 | 4770.9 | 3636.3 | 3300.4 | 3495.7 | 3773.0 | 3974.1 | 4071.8 | 4069.8 |
| 27.5° | 6930.8  | 6635.9  | 5930.9 | 4735.7 | 3415.6 | 3165.6 | 3343.3 | 3589.4 | 3769.1 | 3837.4 | 3837.4 |
| 30°   | 7202.2  | 6899.5  | 6134.0 | 4696.7 | 3271.1 | 3087.5 | 3185.1 | 3376.5 | 3552.3 | 3620.6 | 3620.6 |
| 32.5° | 7499.1  | 7192.5  | 6329.3 | 4602.9 | 3183.2 | 3028.9 | 3030.9 | 3152.0 | 3312.1 | 3394.1 | 3405.8 |
| 35°   | 7870.1  | 7544.0  | 6538.2 | 4397.9 | 3112.9 | 2960.6 | 2880.5 | 2939.1 | 3071.9 | 3169.5 | 3194.9 |
| 37.5° | 8399.3  | 8004.9  | 6794.1 | 4105.0 | 3009.4 | 2855.1 | 2722.3 | 2736.0 | 2837.5 | 2944.9 | 2984.0 |
| 40°   | 9129.7  | 8623.9  | 7094.8 | 3800.3 | 2861.0 | 2706.7 | 2548.5 | 2542.7 | 2616.9 | 2722.3 | 2765.3 |
| 42.5° | 10117.9 | 9442.2  | 7456.1 | 3509.3 | 2718.4 | 2527.0 | 2364.9 | 2355.2 | 2413.8 | 2505.5 | 2550.5 |
| 45°   | 11422.4 | 10488.9 | 7899.4 | 3259.4 | 2607.1 | 2351.3 | 2191.1 | 2187.2 | 2236.0 | 2316.1 | 2363.0 |
| 47.5° | 13092.1 | 11943.8 | 8342.7 | 3089.5 | 2548.5 | 2212.6 | 2048.6 | 2056.4 | 2099.3 | 2171.6 | 2204.8 |
| 50°   | 15254.0 | 13840.1 | 8477.5 | 3003.5 | 2548.5 | 2138.4 | 1921.6 | 1960.7 | 1995.8 | 2050.5 | 2070.1 |
| 52.5° | 17845.4 | 15660.2 | 8032.2 | 2925.4 | 2564.1 | 2148.2 | 1814.2 | 1898.2 | 1923.6 | 1970.5 | 1978.3 |
| 55°   | 20247.5 | 16552.6 | 6905.4 | 2818.0 | 2568.0 | 2208.7 | 1722.4 | 1847.4 | 1894.3 | 1911.9 | 1909.9 |
| 57.5° | 21641.8 | 16246.0 | 5583.3 | 2636.4 | 2552.4 | 2249.7 | 1663.9 | 1784.9 | 1874.8 | 1886.5 | 1868.9 |
| 60°   | 21376.2 | 15170.0 | 4110.8 | 2497.7 | 2437.2 | 2234.1 | 1646.3 | 1689.2 | 1831.8 | 1849.4 | 1825.9 |
| 62.5° | 19329.6 | 13365.5 | 2853.2 | 2390.3 | 2183.3 | 2165.7 | 1640.4 | 1538.9 | 1738.1 | 1781.0 | 1747.8 |
| 65°   | 15537.1 | 10522.1 | 2015.4 | 2058.3 | 1913.8 | 2017.3 | 1609.2 | 1382.6 | 1624.8 | 1683.4 | 1632.6 |
| 67.5° | 11272.0 | 7120.2  | 1454.9 | 1667.8 | 1734.2 | 1777.1 | 1538.9 | 1269.4 | 1495.9 | 1574.0 | 1507.6 |
| 70°   | 7233.5  | 3845.2  | 1021.4 | 1101.4 | 1460.8 | 1509.6 | 1417.8 | 1167.8 | 1365.1 | 1454.9 | 1382.6 |
| 72.5° | 5141.9  | 2271.2  | 734.3  | 771.4  | 1173.7 | 1257.7 | 1247.9 | 1054.6 | 1212.7 | 1322.1 | 1236.2 |
| 75°   | 3548.4  | 1251.8  | 496.0  | 550.7  | 851.5  | 1021.4 | 962.8  | 906.1  | 1027.2 | 1138.5 | 1054.6 |
| 77.5° | 2224.3  | 560.5   | 296.8  | 382.8  | 558.5  | 802.6  | 660.1  | 701.1  | 800.7  | 904.2  | 816.3  |
| 80°   | 1238.1  | 216.8   | 166.0  | 253.9  | 304.6  | 583.9  | 365.2  | 451.1  | 589.8  | 664.0  | 593.7  |
| 82.5° | 269.5   | 27.3    | 74.2   | 109.4  | 119.1  | 339.8  | 193.3  | 261.7  | 371.0  | 365.2  | 316.4  |
| 85°   | 0.0     | 0.0     | 13.7   | 15.6   | 7.8    | 146.5  | 70.3   | 85.9   | 121.1  | 113.3  | 85.9   |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.9    | 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°    | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 |
| 2.5°  | 3515.2 | 3419.5 | 3349.2 | 3314.0 | 3284.7 | 3312.1 | 3327.7 | 3327.7 | 3394.1 | 3433.2 | 3448.8 |
| 5°    | 3185.1 | 3013.3 | 2882.5 | 2794.6 | 2741.8 | 2759.4 | 2778.9 | 2800.4 | 2884.4 | 2941.0 | 2978.1 |
| 7.5°  | 2956.7 | 2693.0 | 2493.8 | 2370.8 | 2306.4 | 2316.1 | 2329.8 | 2347.4 | 2429.4 | 2486.0 | 2534.8 |
| 10°   | 2913.7 | 2534.8 | 2253.6 | 2091.5 | 2013.4 | 1999.8 | 1991.9 | 1986.1 | 2034.9 | 2077.9 | 2116.9 |
| 12.5° | 3089.5 | 2542.7 | 2150.1 | 1952.9 | 1857.2 | 1816.2 | 1769.3 | 1732.2 | 1740.0 | 1767.4 | 1816.2 |
| 15°   | 3403.9 | 2642.2 | 2116.9 | 1880.6 | 1761.5 | 1693.1 | 1638.5 | 1593.6 | 1583.8 | 1593.6 | 1601.4 |
| 17.5° | 3763.2 | 2777.0 | 2113.0 | 1818.1 | 1669.7 | 1599.4 | 1554.5 | 1513.5 | 1499.8 | 1501.8 | 1511.5 |
| 20°   | 4001.5 | 2884.4 | 2101.3 | 1747.8 | 1581.8 | 1519.3 | 1480.3 | 1439.3 | 1425.6 | 1429.5 | 1431.5 |
| 22.5° | 4024.9 | 2941.0 | 2083.7 | 1669.7 | 1494.0 | 1441.2 | 1402.2 | 1365.1 | 1363.1 | 1363.1 | 1374.8 |
| 25°   | 3898.0 | 2941.0 | 2046.6 | 1599.4 | 1410.0 | 1363.1 | 1328.0 | 1283.0 | 1290.9 | 1294.8 | 1310.4 |
| 27.5° | 3700.7 | 2870.7 | 1976.3 | 1542.8 | 1337.7 | 1288.9 | 1253.7 | 1212.7 | 1222.5 | 1228.4 | 1245.9 |
| 30°   | 3505.4 | 2780.9 | 1892.3 | 1478.3 | 1269.4 | 1212.7 | 1187.4 | 1152.2 | 1156.1 | 1163.9 | 1183.4 |
| 32.5° | 3323.8 | 2685.2 | 1792.7 | 1425.6 | 1201.0 | 1144.4 | 1124.9 | 1085.8 | 1091.7 | 1099.5 | 1121.0 |
| 35°   | 3144.1 | 2579.8 | 1675.6 | 1363.1 | 1138.5 | 1081.9 | 1066.3 | 1021.4 | 1025.3 | 1037.0 | 1060.4 |
| 37.5° | 2950.8 | 2468.4 | 1579.9 | 1300.6 | 1078.0 | 1019.4 | 1003.8 | 956.9  | 960.8  | 974.5  | 1001.8 |
| 40°   | 2747.7 | 2359.1 | 1486.1 | 1234.2 | 1013.5 | 955.0  | 941.3  | 890.5  | 894.4  | 910.0  | 939.3  |
| 42.5° | 2542.7 | 2240.0 | 1413.9 | 1148.3 | 947.1  | 884.7  | 871.0  | 824.1  | 830.0  | 847.6  | 876.8  |
| 45°   | 2353.2 | 2097.4 | 1367.0 | 1052.6 | 884.7  | 814.4  | 800.7  | 757.7  | 769.4  | 789.0  | 818.3  |
| 47.5° | 2191.1 | 1950.9 | 1347.5 | 972.5  | 818.3  | 742.1  | 730.4  | 695.2  | 714.8  | 736.2  | 759.7  |
| 50°   | 2052.5 | 1810.3 | 1322.1 | 890.5  | 755.8  | 679.6  | 667.9  | 644.5  | 669.8  | 691.3  | 712.8  |
| 52.5° | 1952.9 | 1650.2 | 1267.4 | 816.3  | 701.1  | 626.9  | 623.0  | 611.3  | 634.7  | 654.2  | 673.7  |
| 55°   | 1867.0 | 1484.2 | 1179.5 | 751.9  | 652.3  | 582.0  | 585.9  | 580.0  | 599.5  | 615.2  | 632.7  |
| 57.5° | 1788.8 | 1339.7 | 1068.2 | 701.1  | 599.5  | 542.9  | 554.6  | 546.8  | 556.6  | 566.3  | 587.8  |
| 60°   | 1695.1 | 1193.2 | 935.4  | 644.5  | 537.0  | 503.8  | 517.5  | 496.0  | 494.1  | 498.0  | 503.8  |
| 62.5° | 1556.4 | 996.0  | 796.8  | 574.1  | 482.4  | 460.9  | 466.7  | 425.7  | 394.5  | 394.5  | 400.3  |
| 65°   | 1363.1 | 800.7  | 667.9  | 496.0  | 419.9  | 402.3  | 398.4  | 339.8  | 296.8  | 292.9  | 310.5  |
| 67.5° | 1138.5 | 658.1  | 554.6  | 417.9  | 349.6  | 337.8  | 341.8  | 298.8  | 255.8  | 251.9  | 271.5  |
| 70°   | 927.6  | 544.9  | 447.2  | 333.9  | 269.5  | 281.2  | 298.8  | 255.8  | 214.8  | 209.0  | 226.5  |
| 72.5° | 753.8  | 433.5  | 349.6  | 255.8  | 199.2  | 232.4  | 253.9  | 209.0  | 169.9  | 166.0  | 181.6  |
| 75°   | 582.0  | 318.3  | 250.0  | 173.8  | 144.5  | 179.7  | 199.2  | 152.3  | 121.1  | 115.2  | 128.9  |
| 77.5° | 388.6  | 197.2  | 140.6  | 109.4  | 85.9   | 123.0  | 132.8  | 80.1   | 70.3   | 68.4   | 78.1   |
| 80°   | 236.3  | 91.8   | 60.5   | 52.7   | 29.3   | 44.9   | 52.7   | 33.2   | 37.1   | 39.1   | 46.9   |
| 82.5° | 119.1  | 25.4   | 9.8    | 2.0    | 0.0    | 0.0    | 15.6   | 7.8    | 15.6   | 19.5   | 29.3   |
| 85°   | 9.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.9    | 9.8    | 17.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 7.8    |
| 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°    | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3 | 3925.3  | 3925.3  | 3925.3  | 3925.3  |
| 2.5°  | 3558.1 | 3640.2 | 3718.3 | 3843.3 | 3972.2 | 4099.1 | 4228.0 | 4353.0  | 4397.9  | 4431.1  | 4505.3  |
| 5°    | 3148.0 | 3302.3 | 3482.0 | 3730.0 | 3995.6 | 4269.0 | 4546.3 | 4800.2  | 4915.4  | 4993.5  | 5169.3  |
| 7.5°  | 2724.3 | 2925.4 | 3183.2 | 3556.2 | 3972.2 | 4407.7 | 4843.1 | 5243.5  | 5429.0  | 5579.4  | 5846.9  |
| 10°   | 2304.4 | 2523.1 | 2849.3 | 3275.0 | 3837.4 | 4462.3 | 5063.8 | 5614.5  | 5854.7  | 6044.2  | 6407.4  |
| 12.5° | 1935.3 | 2140.4 | 2482.1 | 2952.8 | 3626.5 | 4419.4 | 5190.8 | 5852.8  | 6136.0  | 6348.8  | 6747.2  |
| 15°   | 1675.6 | 1820.1 | 2122.8 | 2630.5 | 3376.5 | 4280.7 | 5198.6 | 5966.1  | 6276.6  | 6499.2  | 6844.8  |
| 17.5° | 1531.1 | 1579.9 | 1777.1 | 2302.4 | 3099.2 | 4099.1 | 5126.3 | 6005.1  | 6337.1  | 6544.1  | 6784.3  |
| 20°   | 1452.9 | 1460.8 | 1515.4 | 1876.7 | 2743.8 | 3929.2 | 5058.0 | 6044.2  | 6393.7  | 6567.5  | 6639.8  |
| 22.5° | 1390.5 | 1390.5 | 1404.1 | 1535.0 | 2284.9 | 3726.1 | 5036.5 | 6112.5  | 6471.8  | 6579.3  | 6430.8  |
| 25°   | 1333.8 | 1333.8 | 1337.7 | 1372.9 | 1810.3 | 3415.6 | 5022.8 | 6218.0  | 6579.3  | 6608.5  | 6200.4  |
| 27.5° | 1275.2 | 1277.2 | 1277.2 | 1296.7 | 1458.8 | 2993.8 | 4964.2 | 6354.7  | 6708.1  | 6647.6  | 5979.7  |
| 30°   | 1216.6 | 1220.6 | 1220.6 | 1234.2 | 1290.9 | 2499.7 | 4849.0 | 6518.7  | 6876.1  | 6698.4  | 5761.0  |
| 32.5° | 1158.1 | 1162.0 | 1162.0 | 1173.7 | 1214.7 | 1995.8 | 4704.5 | 6669.1  | 7046.0  | 6719.9  | 5557.9  |
| 35°   | 1097.5 | 1103.4 | 1099.5 | 1115.1 | 1158.1 | 1587.7 | 4520.9 | 6819.5  | 7229.6  | 6788.2  | 5458.3  |
| 37.5° | 1037.0 | 1040.9 | 1038.9 | 1054.6 | 1103.4 | 1370.9 | 4308.1 | 6932.7  | 7479.5  | 6940.5  | 5577.4  |
| 40°   | 976.4  | 974.5  | 974.5  | 992.1  | 1044.8 | 1308.4 | 4040.5 | 7112.4  | 7838.9  | 7208.1  | 6096.9  |
| 42.5° | 913.9  | 913.9  | 910.0  | 929.6  | 994.0  | 1261.6 | 3784.7 | 7434.6  | 8362.2  | 7633.8  | 7018.7  |
| 45°   | 857.3  | 855.4  | 847.6  | 865.1  | 945.2  | 1179.5 | 3694.9 | 8036.1  | 9135.6  | 8323.2  | 8133.7  |
| 47.5° | 802.6  | 800.7  | 781.2  | 796.8  | 886.6  | 1105.3 | 4030.7 | 9020.4  | 10207.7 | 9336.7  | 9178.5  |
| 50°   | 753.8  | 755.8  | 718.7  | 732.3  | 828.0  | 1048.7 | 4759.2 | 10297.5 | 11631.4 | 10701.8 | 10168.7 |
| 52.5° | 708.9  | 708.9  | 660.1  | 667.9  | 755.8  | 997.9  | 5452.4 | 11682.1 | 13510.0 | 12605.8 | 11322.8 |
| 55°   | 664.0  | 660.1  | 605.4  | 609.3  | 683.5  | 925.7  | 5555.9 | 13033.5 | 16072.2 | 15470.7 | 12900.7 |
| 57.5° | 613.2  | 605.4  | 554.6  | 554.6  | 617.1  | 872.9  | 4815.8 | 14072.5 | 19251.5 | 19681.1 | 15175.8 |
| 60°   | 550.7  | 544.9  | 511.7  | 501.9  | 564.4  | 919.8  | 3398.0 | 14193.5 | 21302.0 | 25280.0 | 19532.7 |
| 62.5° | 470.6  | 478.5  | 460.9  | 447.2  | 513.6  | 955.0  | 2013.4 | 13219.1 | 20806.0 | 27061.1 | 24750.8 |
| 65°   | 371.0  | 402.3  | 398.4  | 388.6  | 564.4  | 804.6  | 1189.3 | 11348.2 | 19284.7 | 25623.8 | 23686.5 |
| 67.5° | 316.4  | 337.8  | 332.0  | 332.0  | 591.7  | 611.3  | 748.0  | 8866.1  | 17191.2 | 23918.9 | 21157.5 |
| 70°   | 269.5  | 291.0  | 269.5  | 269.5  | 447.2  | 371.0  | 517.5  | 6190.6  | 14931.7 | 22032.4 | 19497.6 |
| 72.5° | 222.6  | 244.1  | 220.7  | 205.1  | 357.4  | 277.3  | 378.9  | 3868.7  | 12787.5 | 20067.8 | 18361.0 |
| 75°   | 169.9  | 195.3  | 177.7  | 158.2  | 236.3  | 207.0  | 287.1  | 2247.8  | 10594.4 | 17169.7 | 16742.0 |
| 77.5° | 107.4  | 140.6  | 132.8  | 111.3  | 173.8  | 150.4  | 207.0  | 1337.7  | 8174.8  | 13416.3 | 14400.5 |
| 80°   | 66.4   | 72.3   | 74.2   | 70.3   | 99.6   | 101.5  | 140.6  | 761.6   | 5595.0  | 9350.4  | 11250.5 |
| 82.5° | 43.0   | 43.0   | 33.2   | 37.1   | 48.8   | 58.6   | 80.1   | 287.1   | 3288.7  | 5692.6  | 7831.1  |
| 85°   | 31.2   | 27.3   | 17.6   | 17.6   | 23.4   | 29.3   | 31.2   | 87.9    | 1333.8  | 2247.8  | 3062.1  |
| 87.5° | 15.6   | 13.7   | 5.9    | 7.8    | 11.7   | 9.8    | 7.8    | 3.9     | 335.9   | 718.7   | 503.8   |
| 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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|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3925.3  | 3925.3  | 3925.3  | 3925.3  | 3925.3  | 3925.3  | 3925.3  | 3925.3  |
| 2.5°  | 4544.4  | 4604.9  | 4608.8  | 4608.8  | 4556.1  | 4554.1  | 4446.7  | 4435.0  |
| 5°    | 5350.9  | 5390.0  | 5399.7  | 5380.2  | 5274.7  | 5196.6  | 4987.7  | 4942.7  |
| 7.5°  | 6089.1  | 6167.2  | 6167.2  | 6120.3  | 5948.5  | 5788.3  | 5485.6  | 5372.4  |
| 10°   | 6678.9  | 6768.7  | 6749.2  | 6653.5  | 6436.7  | 6216.0  | 5848.9  | 5700.5  |
| 12.5° | 6965.9  | 7057.7  | 7006.9  | 6897.6  | 6686.7  | 6454.3  | 6067.6  | 5899.7  |
| 15°   | 6960.1  | 6934.7  | 6882.0  | 6868.3  | 6766.7  | 6591.0  | 6229.7  | 6046.1  |
| 17.5° | 6712.1  | 6497.2  | 6456.2  | 6592.9  | 6721.8  | 6678.9  | 6370.3  | 6198.4  |
| 20°   | 6319.5  | 5944.6  | 5907.5  | 6169.2  | 6536.3  | 6723.8  | 6501.1  | 6343.0  |
| 22.5° | 5905.5  | 5501.3  | 5415.3  | 5704.4  | 6257.0  | 6737.4  | 6667.1  | 6509.0  |
| 25°   | 5513.0  | 5106.8  | 5020.9  | 5290.4  | 5946.5  | 6714.0  | 6846.8  | 6712.1  |
| 27.5° | 5184.9  | 4792.4  | 4712.3  | 4981.8  | 5647.7  | 6647.6  | 7026.5  | 6930.8  |
| 30°   | 4931.0  | 4567.8  | 4509.2  | 4768.9  | 5390.0  | 6565.6  | 7255.0  | 7202.2  |
| 32.5° | 4782.6  | 4517.0  | 4538.5  | 4751.4  | 5251.3  | 6475.8  | 7473.7  | 7499.1  |
| 35°   | 4929.1  | 4940.8  | 5128.3  | 5216.1  | 5380.2  | 6462.1  | 7770.5  | 7870.1  |
| 37.5° | 5657.5  | 6063.7  | 6452.3  | 6380.1  | 6011.0  | 6620.3  | 8213.8  | 8399.3  |
| 40°   | 6897.6  | 7731.5  | 8362.2  | 8086.9  | 7157.3  | 7104.6  | 8852.4  | 9129.7  |
| 42.5° | 8413.0  | 9826.9  | 10865.8 | 10127.6 | 8635.6  | 7952.1  | 9764.4  | 10117.9 |
| 45°   | 10012.4 | 12410.6 | 14047.1 | 12512.1 | 10211.6 | 9139.5  | 11145.1 | 11422.4 |
| 47.5° | 11697.8 | 15550.8 | 17667.7 | 15156.3 | 11672.4 | 10490.9 | 13027.7 | 13092.1 |
| 50°   | 13541.3 | 18993.7 | 21358.7 | 17798.6 | 13082.4 | 12039.5 | 15328.2 | 15254.0 |
| 52.5° | 15296.9 | 22534.3 | 24971.5 | 20452.5 | 14320.5 | 13961.1 | 17997.8 | 17845.4 |
| 55°   | 16972.5 | 26072.9 | 28605.8 | 23003.0 | 15488.3 | 16499.9 | 21169.2 | 20247.5 |
| 57.5° | 18915.6 | 29254.2 | 32351.4 | 25565.2 | 17120.9 | 19796.4 | 24715.7 | 21641.8 |
| 60°   | 21788.3 | 32868.9 | 36587.2 | 29076.4 | 20226.0 | 23260.8 | 25987.0 | 21376.2 |
| 62.5° | 25455.8 | 36192.7 | 39666.9 | 32517.4 | 23344.7 | 23913.0 | 24114.2 | 19329.6 |
| 65°   | 26168.6 | 37034.4 | 39840.7 | 33437.2 | 22942.4 | 20284.6 | 19687.0 | 15537.1 |
| 67.5° | 24278.2 | 35513.1 | 37411.3 | 31724.6 | 20294.3 | 15675.8 | 14773.5 | 11272.0 |
| 70°   | 22157.4 | 32613.1 | 33177.5 | 28812.8 | 17849.3 | 11529.8 | 9977.3  | 7233.5  |
| 72.5° | 19983.8 | 28744.5 | 27576.6 | 25022.3 | 15687.5 | 8395.4  | 7196.4  | 5141.9  |
| 75°   | 17402.1 | 23657.2 | 21721.9 | 20790.4 | 12988.6 | 6589.0  | 5206.4  | 3548.4  |
| 77.5° | 13935.8 | 16652.2 | 16134.7 | 16115.2 | 9760.5  | 4813.9  | 3474.2  | 2224.3  |
| 80°   | 9830.8  | 10807.2 | 10543.6 | 12137.2 | 6548.0  | 3491.8  | 2091.5  | 1238.1  |
| 82.5° | 4759.2  | 5975.8  | 6134.0  | 7227.6  | 3185.1  | 2054.4  | 482.4   | 269.5   |
| 85°   | 1863.0  | 2882.5  | 2431.3  | 2743.8  | 894.4   | 572.2   | 11.7    | 0.0     |
| 87.5° | 209.0   | 333.9   | 306.6   | 242.2   | 109.4   | 23.4    | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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