

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: P948661

Luminaire Tested: **GALN-SB3C-927-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948661  
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-SB3C-927-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

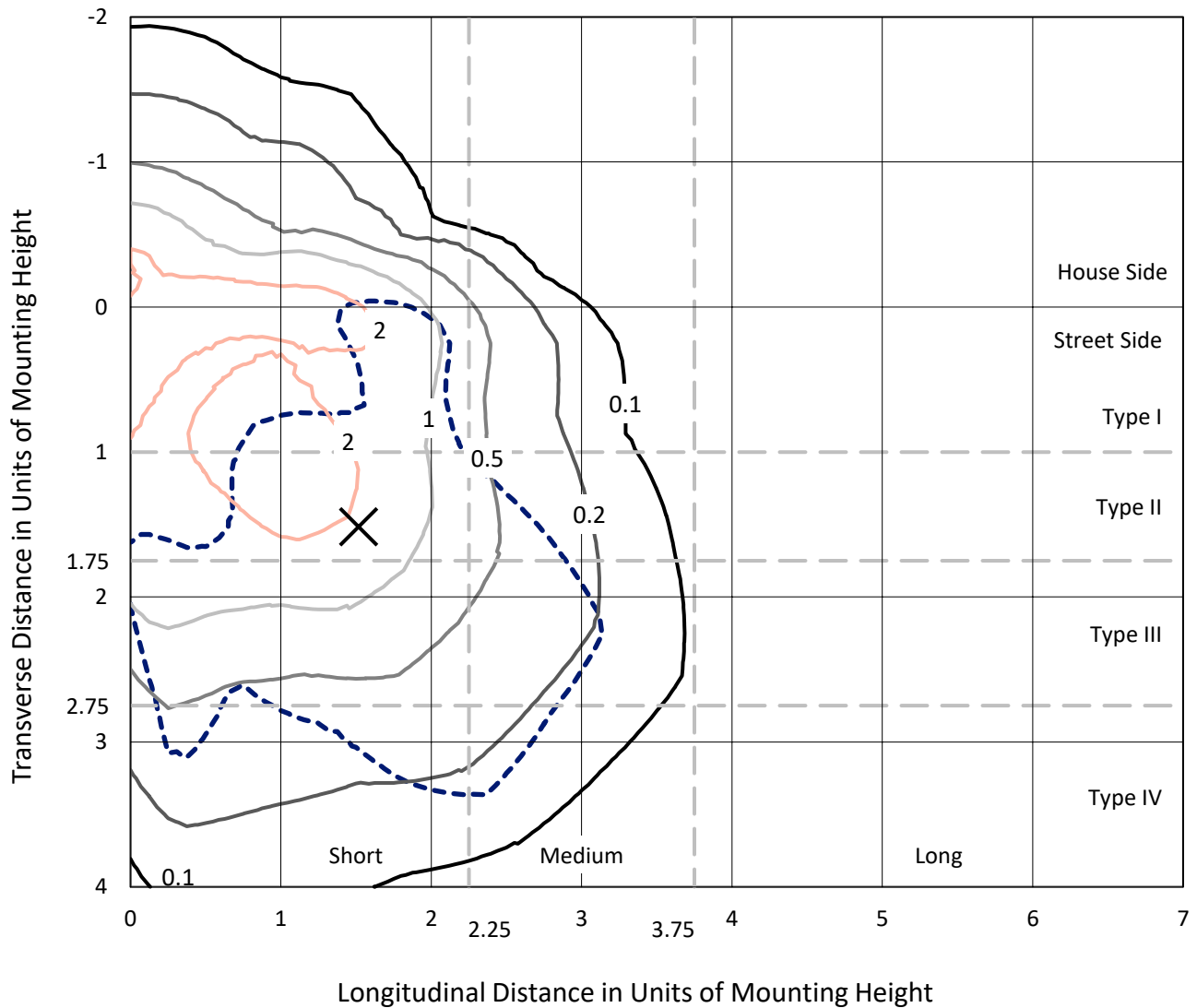
Lumens per Lamp: N/A  
Luminaire Lumens: 10438 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

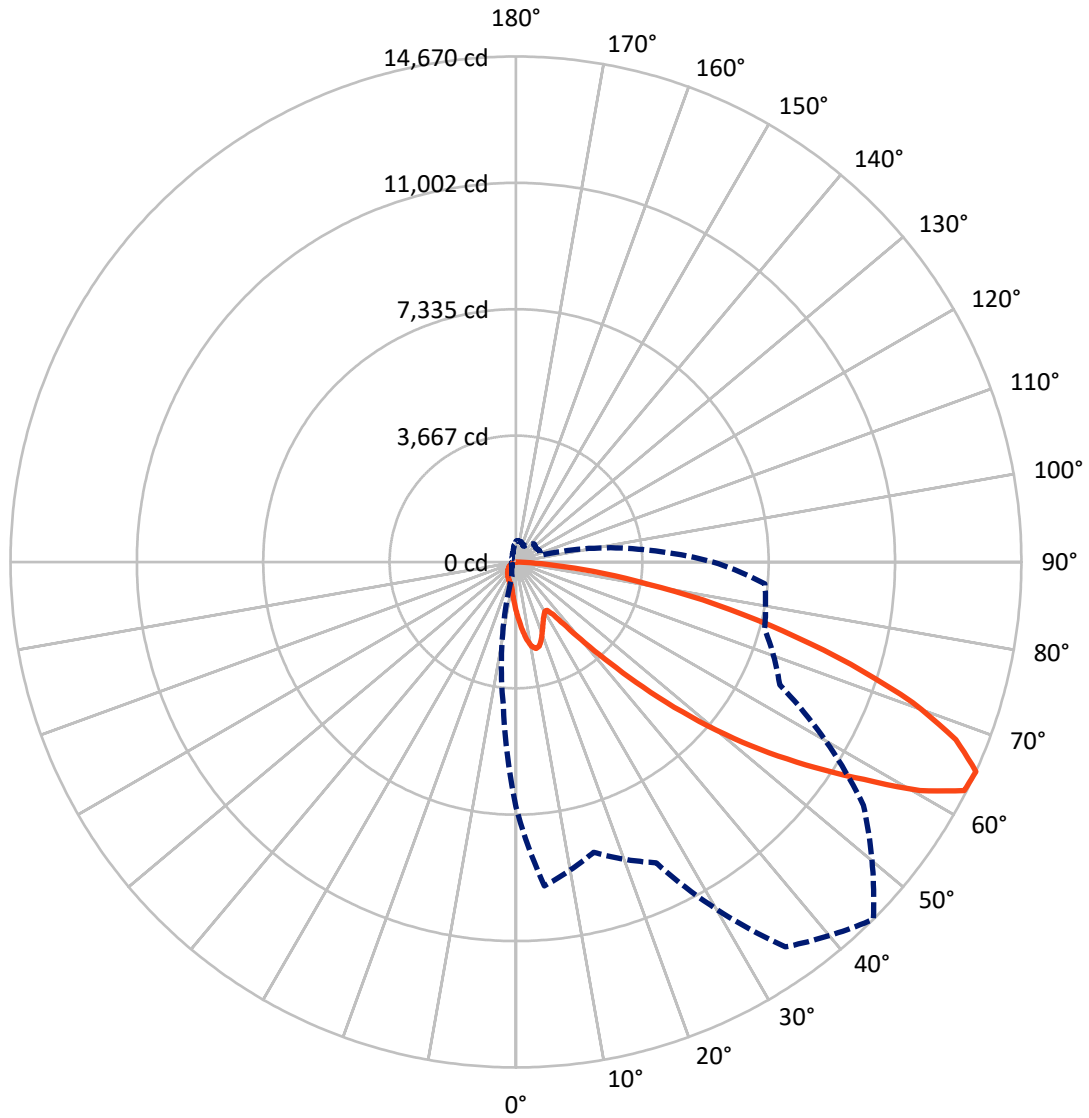
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2074.7   | 0.0    | 2074.7  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 8363.2   | 0.0    | 8363.2  |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 10438.0  | 0.0    | 10438.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 142.3   | 1.4       |
| 10°-20°   | 426.6   | 4.1       |
| 20°-30°   | 628.4   | 6.0       |
| 30°-40°   | 807.3   | 7.7       |
| 40°-50°   | 1305.7  | 12.5      |
| 50°-60°   | 2289.7  | 21.9      |
| 60°-70°   | 2865.0  | 27.4      |
| 70°-80°   | 1674.2  | 16.0      |
| 80°-90°   | 298.7   | 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°    | 10438.0 | 100.0     |
| 0°-180°   | 10438.0 | 100.0     |

**Coefficient of Utilization**



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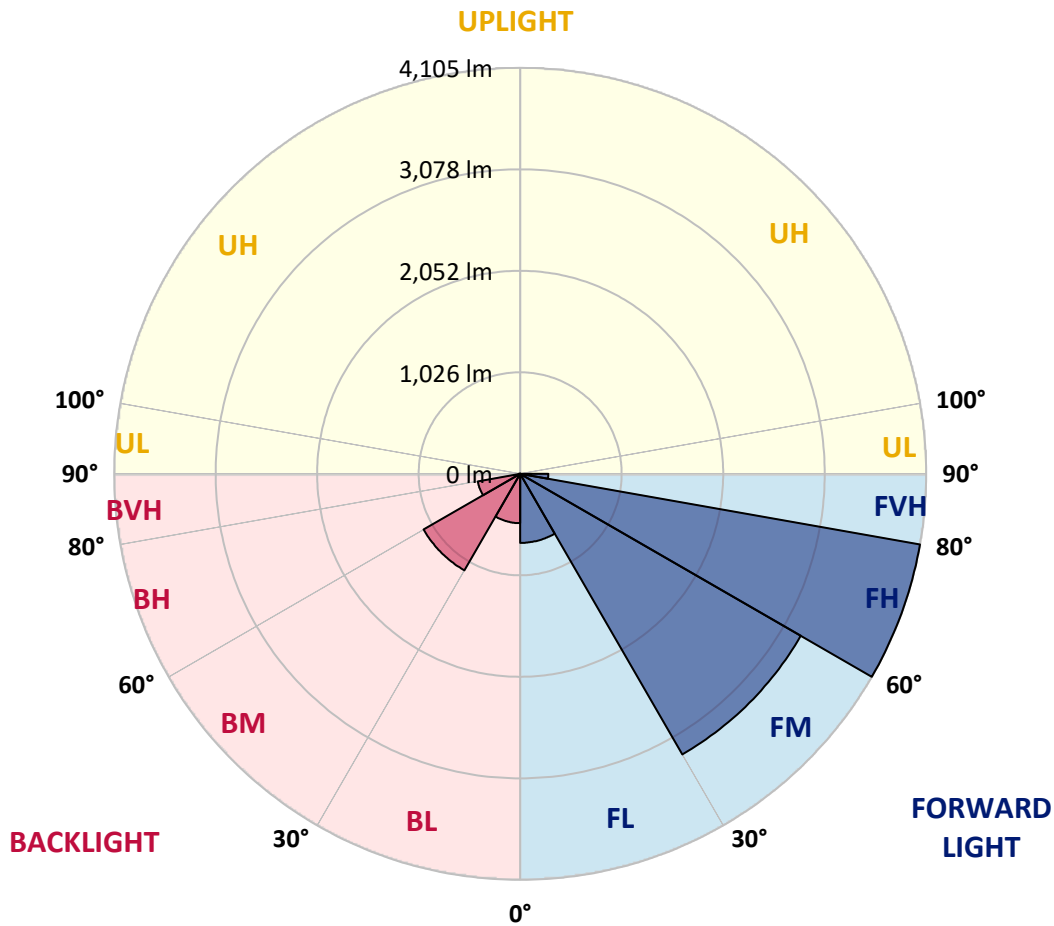
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 698.4  | 6.7       |                         |      |         |
| FM (30°-60°)   | 3275.6 | 31.4      |                         |      |         |
| FH (60°-80°)   | 4104.5 | 39.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 284.7  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 498.9  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 1127.2 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 434.7  | 4.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 14.0   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0°    | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3  | 1445.3  | 1445.3  | 1445.3 | 1445.3 | 1445.3 |
| 2.5°  | 1619.3 | 1631.6 | 1658.9 | 1673.3 | 1695.6  | 1697.0  | 1697.0  | 1677.6 | 1676.9 | 1637.3 |
| 5°    | 1809.9 | 1838.7 | 1903.4 | 1970.2 | 1984.6  | 1988.2  | 1981.0  | 1942.2 | 1913.4 | 1836.5 |
| 7.5°  | 1999.0 | 2054.4 | 2152.9 | 2242.1 | 2270.8  | 2270.8  | 2253.6  | 2190.3 | 2131.3 | 2019.9 |
| 10°   | 2155.8 | 2225.5 | 2359.3 | 2459.2 | 2492.3  | 2485.1  | 2449.9  | 2370.1 | 2288.8 | 2153.6 |
| 12.5° | 2259.3 | 2337.7 | 2484.4 | 2564.9 | 2598.7  | 2580.0  | 2539.8  | 2462.1 | 2376.5 | 2234.1 |
| 15°   | 2311.1 | 2393.1 | 2520.3 | 2562.8 | 2553.4  | 2534.0  | 2529.0  | 2491.6 | 2426.9 | 2293.8 |
| 17.5° | 2333.4 | 2409.6 | 2498.0 | 2471.4 | 2392.3  | 2377.2  | 2427.6  | 2475.0 | 2459.2 | 2345.6 |
| 20°   | 2354.2 | 2418.2 | 2444.8 | 2326.9 | 2188.8  | 2175.2  | 2271.5  | 2406.7 | 2475.8 | 2393.8 |
| 22.5° | 2383.0 | 2422.5 | 2367.9 | 2174.5 | 2025.6  | 1994.0  | 2100.4  | 2303.9 | 2480.8 | 2454.9 |
| 25°   | 2422.5 | 2433.3 | 2283.0 | 2029.9 | 1880.4  | 1848.7  | 1948.0  | 2189.6 | 2472.2 | 2521.1 |
| 27.5° | 2470.0 | 2447.7 | 2201.8 | 1909.1 | 1764.6  | 1735.1  | 1834.3  | 2079.5 | 2447.7 | 2587.2 |
| 30°   | 2531.8 | 2466.4 | 2121.3 | 1815.6 | 1681.9  | 1660.3  | 1756.0  | 1984.6 | 2417.5 | 2671.3 |
| 32.5° | 2594.4 | 2474.3 | 2046.5 | 1761.0 | 1663.2  | 1671.1  | 1749.5  | 1933.6 | 2384.4 | 2751.9 |
| 35°   | 2662.0 | 2499.5 | 2009.8 | 1814.9 | 1819.2  | 1888.3  | 1920.6  | 1981.0 | 2379.4 | 2861.2 |
| 37.5° | 2754.0 | 2555.6 | 2053.7 | 2083.1 | 2232.7  | 2375.8  | 2349.2  | 2213.3 | 2437.6 | 3024.4 |
| 40°   | 2886.3 | 2654.1 | 2244.9 | 2539.8 | 2846.8  | 3079.1  | 2977.7  | 2635.4 | 2616.0 | 3259.5 |
| 42.5° | 3079.1 | 2810.8 | 2584.3 | 3097.7 | 3618.4  | 4000.9  | 3729.1  | 3179.7 | 2928.0 | 3595.3 |
| 45°   | 3363.8 | 3064.7 | 2994.9 | 3686.7 | 4569.7  | 5172.3  | 4607.1  | 3760.0 | 3365.2 | 4103.7 |
| 47.5° | 3758.6 | 3437.9 | 3379.6 | 4307.2 | 5725.9  | 6505.4  | 5580.7  | 4297.9 | 3862.8 | 4796.9 |
| 50°   | 4282.8 | 3940.5 | 3744.2 | 4986.0 | 6993.7  | 7864.5  | 6553.6  | 4817.0 | 4433.1 | 5644.0 |
| 52.5° | 4974.5 | 4641.6 | 4169.2 | 5632.5 | 8297.3  | 9194.7  | 7530.8  | 5272.9 | 5140.6 | 6626.9 |
| 55°   | 5917.9 | 5696.5 | 4750.2 | 6249.4 | 9600.3  | 10532.9 | 8469.9  | 5702.9 | 6075.4 | 7794.7 |
| 57.5° | 7088.6 | 7246.8 | 5587.9 | 6964.9 | 10771.7 | 11912.1 | 9413.3  | 6304.1 | 7289.2 | 9100.5 |
| 60°   | 7843.6 | 9308.4 | 7192.1 | 8022.7 | 12102.7 | 13471.8 | 10706.2 | 7447.4 | 8564.8 | 9568.7 |
| 62.5° | 7661.0 | 9964.1 | 9113.5 | 9373.1 | 13326.5 | 14605.7 | 11973.2 | 8595.8 | 8805.0 | 8879.1 |
| 65°   | 7100.8 | 9434.9 | 8721.6 | 9635.5 | 13636.4 | 14669.7 | 12311.9 | 8447.6 | 7469.0 | 7248.9 |
| 67.5° | 6330.0 | 8807.2 | 7790.4 | 8939.5 | 13076.3 | 13775.2 | 11681.3 | 7472.6 | 5772.0 | 5439.8 |
| 70°   | 5498.0 | 8112.5 | 7179.2 | 8158.6 | 12008.5 | 12216.3 | 10609.1 | 6572.3 | 4245.4 | 3673.7 |
| 72.5° | 4708.5 | 7389.2 | 6760.7 | 7358.2 | 10584.0 | 10154.0 | 9213.4  | 5776.3 | 3091.3 | 2649.8 |
| 75°   | 3901.0 | 6322.1 | 6164.6 | 6407.6 | 8710.8  | 7998.2  | 7655.2  | 4782.5 | 2426.1 | 1917.0 |
| 77.5° | 3010.0 | 4940.0 | 5302.4 | 5131.3 | 6131.5  | 5940.9  | 5933.8  | 3593.9 | 1772.5 | 1279.2 |
| 80°   | 2060.1 | 3442.9 | 4142.6 | 3619.8 | 3979.3  | 3882.3  | 4469.0  | 2411.0 | 1285.7 | 770.1  |
| 82.5° | 1210.9 | 2096.1 | 2883.5 | 1752.4 | 2200.4  | 2258.6  | 2661.3  | 1172.8 | 756.5  | 177.6  |
| 85°   | 491.1  | 827.6  | 1127.5 | 686.0  | 1061.3  | 895.2   | 1010.3  | 329.3  | 210.7  | 4.3    |
| 87.5° | 123.7  | 264.6  | 185.5  | 76.9   | 123.0   | 112.9   | 89.2    | 40.3   | 8.6    | 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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**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1445.3 | 0°    | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 |
| 1633.0 | 2.5°  | 1605.0 | 1588.4 | 1547.4 | 1506.4 | 1473.4 | 1428.8 | 1399.3 | 1364.1 | 1330.3 | 1300.1 |
| 1820.0 | 5°    | 1774.7 | 1720.0 | 1645.2 | 1576.9 | 1507.2 | 1439.6 | 1372.7 | 1302.2 | 1237.5 | 1198.0 |
| 1978.2 | 7.5°  | 1912.7 | 1816.4 | 1717.1 | 1630.1 | 1546.0 | 1466.9 | 1378.5 | 1292.9 | 1191.5 | 1137.6 |
| 2099.0 | 10°   | 2015.6 | 1889.0 | 1758.8 | 1658.9 | 1574.0 | 1497.1 | 1422.3 | 1336.0 | 1213.8 | 1146.2 |
| 2172.3 | 12.5° | 2083.1 | 1932.9 | 1780.4 | 1666.1 | 1571.2 | 1511.5 | 1478.4 | 1444.6 | 1323.1 | 1244.0 |
| 2226.2 | 15°   | 2129.9 | 1963.8 | 1795.5 | 1649.5 | 1533.1 | 1489.2 | 1522.3 | 1561.1 | 1483.4 | 1392.1 |
| 2282.3 | 17.5° | 2180.9 | 2004.0 | 1802.0 | 1605.0 | 1459.0 | 1440.3 | 1525.9 | 1615.7 | 1612.2 | 1521.6 |
| 2335.5 | 20°   | 2234.9 | 2039.3 | 1797.7 | 1533.1 | 1369.1 | 1385.6 | 1494.9 | 1599.2 | 1643.1 | 1594.2 |
| 2396.7 | 22.5° | 2290.2 | 2073.1 | 1781.1 | 1439.6 | 1285.0 | 1336.7 | 1446.0 | 1537.4 | 1589.1 | 1574.0 |
| 2471.4 | 25°   | 2360.0 | 2120.5 | 1756.7 | 1338.9 | 1215.2 | 1287.1 | 1389.2 | 1463.3 | 1499.3 | 1498.5 |
| 2552.0 | 27.5° | 2443.4 | 2183.8 | 1743.7 | 1257.7 | 1165.6 | 1231.0 | 1321.6 | 1387.8 | 1413.0 | 1413.0 |
| 2651.9 | 30°   | 2540.5 | 2258.6 | 1729.4 | 1204.4 | 1136.8 | 1172.8 | 1243.3 | 1308.0 | 1333.2 | 1333.2 |
| 2761.2 | 32.5° | 2648.3 | 2330.5 | 1694.8 | 1172.1 | 1115.3 | 1116.0 | 1160.6 | 1219.5 | 1249.7 | 1254.1 |
| 2897.8 | 35°   | 2777.8 | 2407.4 | 1619.3 | 1146.2 | 1090.1 | 1060.6 | 1082.2 | 1131.1 | 1167.0 | 1176.4 |
| 3092.7 | 37.5° | 2947.5 | 2501.6 | 1511.5 | 1108.1 | 1051.3 | 1002.4 | 1007.4 | 1044.8 | 1084.4 | 1098.7 |
| 3361.6 | 40°   | 3175.4 | 2612.4 | 1399.3 | 1053.4 | 996.6  | 938.4  | 936.2  | 963.6  | 1002.4 | 1018.2 |
| 3725.5 | 42.5° | 3476.7 | 2745.4 | 1292.2 | 1000.9 | 930.5  | 870.8  | 867.2  | 888.8  | 922.6  | 939.1  |
| 4205.8 | 45°   | 3862.1 | 2908.6 | 1200.1 | 960.0  | 865.8  | 806.8  | 805.4  | 823.3  | 852.8  | 870.1  |
| 4820.6 | 47.5° | 4397.8 | 3071.9 | 1137.6 | 938.4  | 814.7  | 754.3  | 757.2  | 773.0  | 799.6  | 811.8  |
| 5616.6 | 50°   | 5096.0 | 3121.5 | 1105.9 | 938.4  | 787.4  | 707.6  | 721.9  | 734.9  | 755.0  | 762.2  |
| 6570.9 | 52.5° | 5766.2 | 2957.5 | 1077.2 | 944.1  | 791.0  | 668.0  | 698.9  | 708.3  | 725.5  | 728.4  |
| 7455.3 | 55°   | 6094.8 | 2542.6 | 1037.6 | 945.6  | 813.3  | 634.2  | 680.2  | 697.5  | 704.0  | 703.2  |
| 7968.7 | 57.5° | 5981.9 | 2055.8 | 970.7  | 939.8  | 828.4  | 612.6  | 657.2  | 690.3  | 694.6  | 688.1  |
| 7870.9 | 60°   | 5585.7 | 1513.6 | 919.7  | 897.4  | 822.6  | 606.2  | 622.0  | 674.5  | 681.0  | 672.3  |
| 7117.3 | 62.5° | 4921.3 | 1050.6 | 880.1  | 803.9  | 797.4  | 604.0  | 566.6  | 640.0  | 655.8  | 643.6  |
| 5720.9 | 65°   | 3874.3 | 742.1  | 757.9  | 704.7  | 742.8  | 592.5  | 509.1  | 598.3  | 619.8  | 601.1  |
| 4150.5 | 67.5° | 2621.7 | 535.7  | 614.1  | 638.5  | 654.4  | 566.6  | 467.4  | 550.8  | 579.6  | 555.1  |
| 2663.4 | 70°   | 1415.8 | 376.1  | 405.6  | 537.9  | 555.8  | 522.0  | 430.0  | 502.6  | 535.7  | 509.1  |
| 1893.3 | 72.5° | 836.3  | 270.4  | 284.0  | 432.2  | 463.1  | 459.5  | 388.3  | 446.5  | 486.8  | 455.2  |
| 1306.5 | 75°   | 460.9  | 182.6  | 202.8  | 313.5  | 376.1  | 354.5  | 333.6  | 378.2  | 419.2  | 388.3  |
| 819.0  | 77.5° | 206.4  | 109.3  | 140.9  | 205.7  | 295.5  | 243.0  | 258.1  | 294.8  | 332.9  | 300.6  |
| 455.9  | 80°   | 79.8   | 61.1   | 93.5   | 112.2  | 215.0  | 134.5  | 166.1  | 217.2  | 244.5  | 218.6  |
| 99.2   | 82.5° | 10.1   | 27.3   | 40.3   | 43.9   | 125.1  | 71.2   | 96.4   | 136.6  | 134.5  | 116.5  |
| 0.0    | 85°   | 0.0    | 5.0    | 5.8    | 2.9    | 53.9   | 25.9   | 31.6   | 44.6   | 41.7   | 31.6   |
| 0.0    | 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 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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**CANDELA DISTRIBUTION (continued):**

| 185°   |       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1445.3 | 0°    | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 |
| 1294.3 | 2.5°  | 1259.1 | 1233.2 | 1220.3 | 1209.5 | 1219.5 | 1225.3 | 1225.3 | 1249.7 | 1264.1 | 1269.9 |
| 1172.8 | 5°    | 1109.5 | 1061.3 | 1029.0 | 1009.6 | 1016.0 | 1023.2 | 1031.1 | 1062.1 | 1082.9 | 1096.6 |
| 1088.7 | 7.5°  | 991.6  | 918.3  | 872.9  | 849.2  | 852.8  | 857.8  | 864.3  | 894.5  | 915.4  | 933.4  |
| 1072.9 | 10°   | 933.4  | 829.8  | 770.1  | 741.4  | 736.3  | 733.5  | 731.3  | 749.3  | 765.1  | 779.5  |
| 1137.6 | 12.5° | 936.2  | 791.7  | 719.1  | 683.8  | 668.7  | 651.5  | 637.8  | 640.7  | 650.8  | 668.7  |
| 1253.3 | 15°   | 972.9  | 779.5  | 692.5  | 648.6  | 623.4  | 603.3  | 586.8  | 583.2  | 586.8  | 589.6  |
| 1385.6 | 17.5° | 1022.5 | 778.0  | 669.5  | 614.8  | 588.9  | 572.4  | 557.3  | 552.2  | 553.0  | 556.6  |
| 1473.4 | 20°   | 1062.1 | 773.7  | 643.6  | 582.4  | 559.4  | 545.1  | 530.0  | 524.9  | 526.4  | 527.1  |
| 1482.0 | 22.5° | 1082.9 | 767.2  | 614.8  | 550.1  | 530.7  | 516.3  | 502.6  | 501.9  | 501.9  | 506.2  |
| 1435.3 | 25°   | 1082.9 | 753.6  | 588.9  | 519.2  | 501.9  | 489.0  | 472.4  | 475.3  | 476.7  | 482.5  |
| 1362.6 | 27.5° | 1057.0 | 727.7  | 568.1  | 492.6  | 474.6  | 461.6  | 446.5  | 450.1  | 452.3  | 458.8  |
| 1290.7 | 30°   | 1024.0 | 696.8  | 544.3  | 467.4  | 446.5  | 437.2  | 424.3  | 425.7  | 428.6  | 435.8  |
| 1223.9 | 32.5° | 988.7  | 660.1  | 524.9  | 442.2  | 421.4  | 414.2  | 399.8  | 402.0  | 404.8  | 412.7  |
| 1157.7 | 35°   | 949.9  | 617.0  | 501.9  | 419.2  | 398.4  | 392.6  | 376.1  | 377.5  | 381.8  | 390.5  |
| 1086.5 | 37.5° | 908.9  | 581.7  | 478.9  | 396.9  | 375.4  | 369.6  | 352.3  | 353.8  | 358.8  | 368.9  |
| 1011.7 | 40°   | 868.6  | 547.2  | 454.5  | 373.2  | 351.6  | 346.6  | 327.9  | 329.3  | 335.1  | 345.9  |
| 936.2  | 42.5° | 824.8  | 520.6  | 422.8  | 348.7  | 325.7  | 320.7  | 303.4  | 305.6  | 312.1  | 322.9  |
| 866.5  | 45°   | 772.3  | 503.3  | 387.6  | 325.7  | 299.9  | 294.8  | 279.0  | 283.3  | 290.5  | 301.3  |
| 806.8  | 47.5° | 718.4  | 496.2  | 358.1  | 301.3  | 273.2  | 268.9  | 256.0  | 263.2  | 271.1  | 279.7  |
| 755.7  | 50°   | 666.6  | 486.8  | 327.9  | 278.3  | 250.2  | 245.9  | 237.3  | 246.6  | 254.6  | 262.5  |
| 719.1  | 52.5° | 607.6  | 466.7  | 300.6  | 258.1  | 230.8  | 229.4  | 225.1  | 233.7  | 240.9  | 248.1  |
| 687.4  | 55°   | 546.5  | 434.3  | 276.8  | 240.2  | 214.3  | 215.7  | 213.6  | 220.8  | 226.5  | 233.0  |
| 658.7  | 57.5° | 493.3  | 393.3  | 258.1  | 220.8  | 199.9  | 204.2  | 201.3  | 204.9  | 208.5  | 216.4  |
| 624.2  | 60°   | 439.4  | 344.4  | 237.3  | 197.7  | 185.5  | 190.6  | 182.6  | 181.9  | 183.4  | 185.5  |
| 573.1  | 62.5° | 366.7  | 293.4  | 211.4  | 177.6  | 169.7  | 171.9  | 156.8  | 145.3  | 145.3  | 147.4  |
| 501.9  | 65°   | 294.8  | 245.9  | 182.6  | 154.6  | 148.1  | 146.7  | 125.1  | 109.3  | 107.9  | 114.3  |
| 419.2  | 67.5° | 242.3  | 204.2  | 153.9  | 128.7  | 124.4  | 125.8  | 110.0  | 94.2   | 92.8   | 100.0  |
| 341.6  | 70°   | 200.6  | 164.7  | 123.0  | 99.2   | 103.5  | 110.0  | 94.2   | 79.1   | 76.9   | 83.4   |
| 277.6  | 72.5° | 159.6  | 128.7  | 94.2   | 73.3   | 85.6   | 93.5   | 76.9   | 62.6   | 61.1   | 66.9   |
| 214.3  | 75°   | 117.2  | 92.0   | 64.0   | 53.2   | 66.2   | 73.3   | 56.1   | 44.6   | 42.4   | 47.5   |
| 143.1  | 77.5° | 72.6   | 51.8   | 40.3   | 31.6   | 45.3   | 48.9   | 29.5   | 25.9   | 25.2   | 28.8   |
| 87.0   | 80°   | 33.8   | 22.3   | 19.4   | 10.8   | 16.5   | 19.4   | 12.2   | 13.7   | 14.4   | 17.3   |
| 43.9   | 82.5° | 9.3    | 3.6    | 0.7    | 0.0    | 0.0    | 5.8    | 2.9    | 5.8    | 7.2    | 10.8   |
| 3.6    | 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 3.6    | 6.5    |
| 0.0    | 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.9    |
| 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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|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1445.3 | 0°    | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 | 1445.3 |
| 1310.1 | 2.5°  | 1340.3 | 1369.1 | 1415.1 | 1462.6 | 1509.3 | 1556.8 | 1602.8 | 1619.3 |
| 1159.1 | 5°    | 1215.9 | 1282.1 | 1373.4 | 1471.2 | 1571.9 | 1674.0 | 1767.5 | 1809.9 |
| 1003.1 | 7.5°  | 1077.2 | 1172.1 | 1309.4 | 1462.6 | 1622.9 | 1783.3 | 1930.7 | 1999.0 |
| 848.5  | 10°   | 929.0  | 1049.1 | 1205.9 | 1413.0 | 1643.1 | 1864.5 | 2067.3 | 2155.8 |
| 712.6  | 12.5° | 788.1  | 913.9  | 1087.2 | 1335.3 | 1627.3 | 1911.3 | 2155.1 | 2259.3 |
| 617.0  | 15°   | 670.2  | 781.6  | 968.6  | 1243.3 | 1576.2 | 1914.2 | 2196.8 | 2311.1 |
| 563.8  | 17.5° | 581.7  | 654.4  | 847.8  | 1141.2 | 1509.3 | 1887.6 | 2211.1 | 2333.4 |
| 535.0  | 20°   | 537.9  | 558.0  | 691.0  | 1010.3 | 1446.8 | 1862.4 | 2225.5 | 2354.2 |
| 512.0  | 22.5° | 512.0  | 517.0  | 565.2  | 841.3  | 1372.0 | 1854.5 | 2250.7 | 2383.0 |
| 491.1  | 25°   | 491.1  | 492.6  | 505.5  | 666.6  | 1257.7 | 1849.4 | 2289.5 | 2422.5 |
| 469.6  | 27.5° | 470.3  | 470.3  | 477.5  | 537.1  | 1102.3 | 1827.9 | 2339.9 | 2470.0 |
| 448.0  | 30°   | 449.4  | 449.4  | 454.5  | 475.3  | 920.4  | 1785.4 | 2400.3 | 2531.8 |
| 426.4  | 32.5° | 427.8  | 427.8  | 432.2  | 447.3  | 734.9  | 1732.2 | 2455.6 | 2594.4 |
| 404.1  | 35°   | 406.3  | 404.8  | 410.6  | 426.4  | 584.6  | 1664.6 | 2511.0 | 2662.0 |
| 381.8  | 37.5° | 383.3  | 382.5  | 388.3  | 406.3  | 504.8  | 1586.3 | 2552.7 | 2754.0 |
| 359.5  | 40°   | 358.8  | 358.8  | 365.3  | 384.7  | 481.8  | 1487.8 | 2618.8 | 2886.3 |
| 336.5  | 42.5° | 336.5  | 335.1  | 342.3  | 366.0  | 464.5  | 1393.6 | 2737.5 | 3079.1 |
| 315.7  | 45°   | 315.0  | 312.1  | 318.5  | 348.0  | 434.3  | 1360.5 | 2959.0 | 3363.8 |
| 295.5  | 47.5° | 294.8  | 287.6  | 293.4  | 326.5  | 407.0  | 1484.2 | 3321.4 | 3758.6 |
| 277.6  | 50°   | 278.3  | 264.6  | 269.7  | 304.9  | 386.1  | 1752.4 | 3791.7 | 4282.8 |
| 261.0  | 52.5° | 261.0  | 243.0  | 245.9  | 278.3  | 367.4  | 2007.6 | 4301.5 | 4974.5 |
| 244.5  | 55°   | 243.0  | 222.9  | 224.3  | 251.7  | 340.8  | 2045.8 | 4799.1 | 5917.9 |
| 225.8  | 57.5° | 222.9  | 204.2  | 204.2  | 227.2  | 321.4  | 1773.2 | 5181.6 | 7088.6 |
| 202.8  | 60°   | 200.6  | 188.4  | 184.8  | 207.8  | 338.7  | 1251.2 | 5226.2 | 7843.6 |
| 173.3  | 62.5° | 176.2  | 169.7  | 164.7  | 189.1  | 351.6  | 741.4  | 4867.4 | 7661.0 |
| 136.6  | 65°   | 148.1  | 146.7  | 143.1  | 207.8  | 296.3  | 437.9  | 4178.5 | 7100.8 |
| 116.5  | 67.5° | 124.4  | 122.2  | 122.2  | 217.9  | 225.1  | 275.4  | 3264.6 | 6330.0 |
| 99.2   | 70°   | 107.1  | 99.2   | 99.2   | 164.7  | 136.6  | 190.6  | 2279.4 | 5498.0 |
| 82.0   | 72.5° | 89.9   | 81.3   | 75.5   | 131.6  | 102.1  | 139.5  | 1424.5 | 4708.5 |
| 62.6   | 75°   | 71.9   | 65.4   | 58.2   | 87.0   | 76.2   | 105.7  | 827.6  | 3901.0 |
| 39.5   | 77.5° | 51.8   | 48.9   | 41.0   | 64.0   | 55.4   | 76.2   | 492.6  | 3010.0 |
| 24.4   | 80°   | 26.6   | 27.3   | 25.9   | 36.7   | 37.4   | 51.8   | 280.4  | 2060.1 |
| 15.8   | 82.5° | 15.8   | 12.2   | 13.7   | 18.0   | 21.6   | 29.5   | 105.7  | 1210.9 |
| 11.5   | 85°   | 10.1   | 6.5    | 6.5    | 8.6    | 10.8   | 11.5   | 32.4   | 491.1  |
| 5.8    | 87.5° | 5.0    | 2.2    | 2.9    | 4.3    | 3.6    | 2.9    | 1.4    | 123.7  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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