

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: P940022

Luminaire Tested: **GALN-SB2D-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

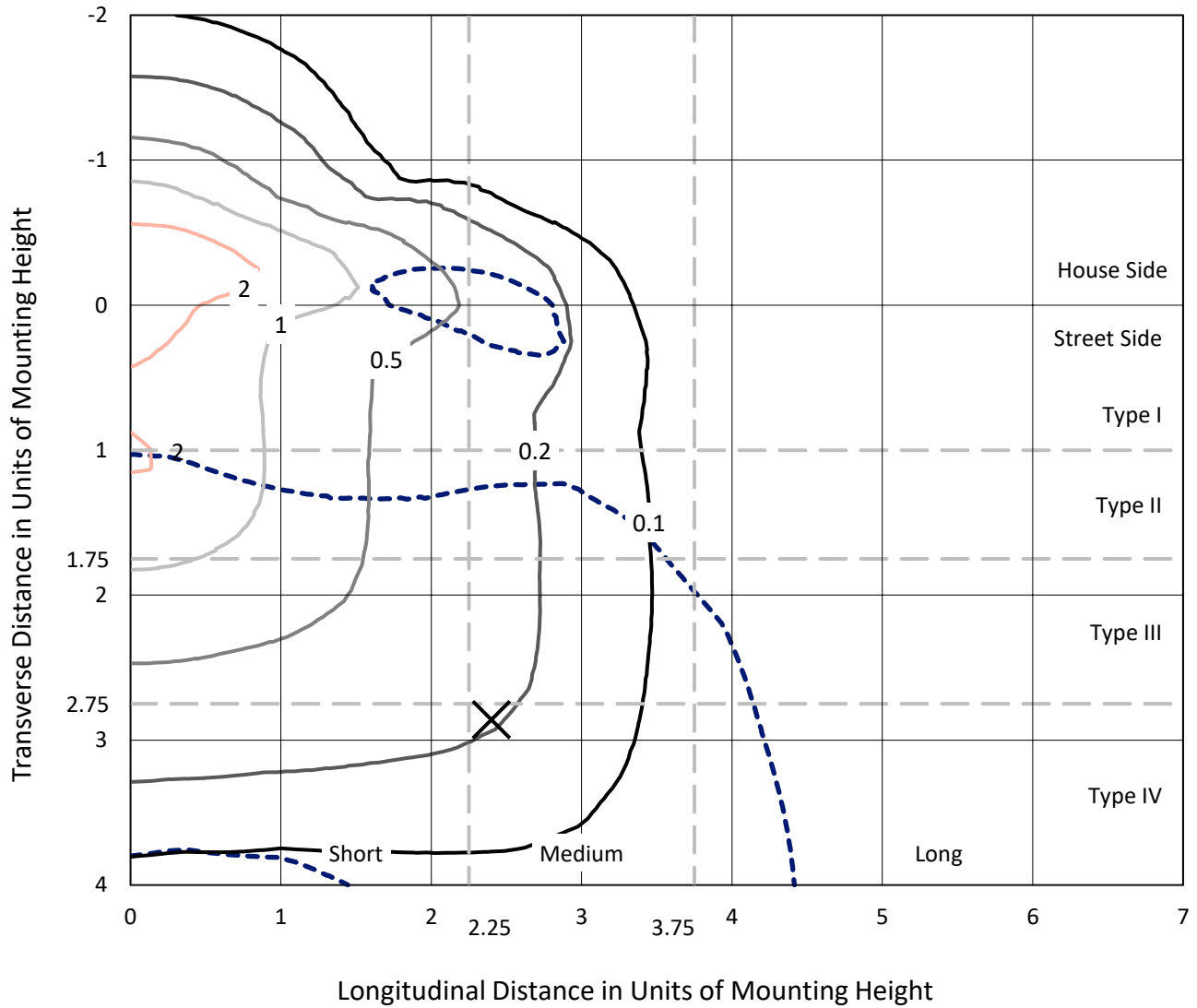
Lumens per Lamp: N/A  
Luminaire Lumens: 12279 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

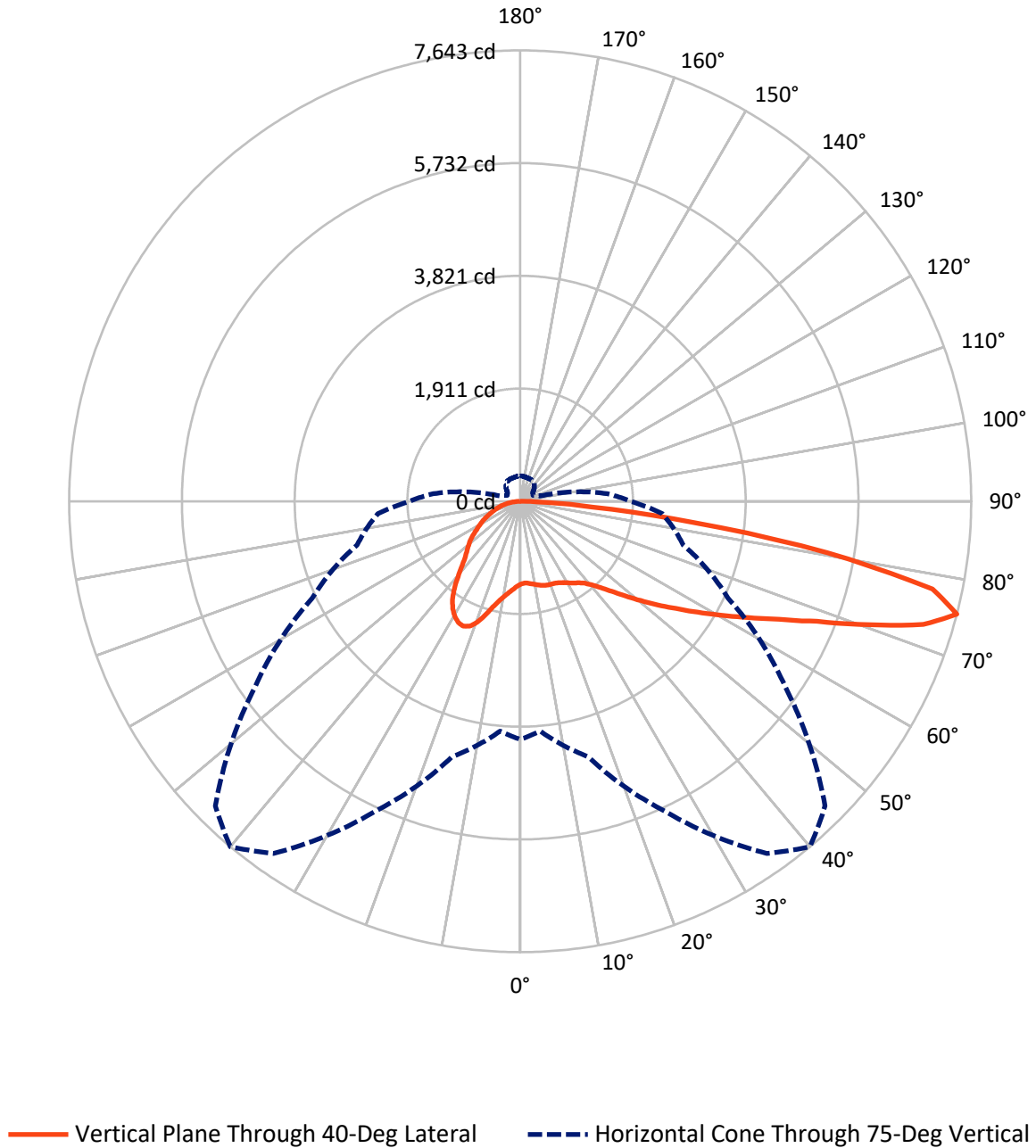
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3804.4   | 0.0    | 3804.4  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 8474.6   | 0.0    | 8474.6  |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 12279.0  | 0.0    | 12279.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 140.2   | 1.1       |
| 10°-20°   | 470.6   | 3.8       |
| 20°-30°   | 859.2   | 7.0       |
| 30°-40°   | 1218.6  | 9.9       |
| 40°-50°   | 1645.5  | 13.4      |
| 50°-60°   | 2213.7  | 18.0      |
| 60°-70°   | 2809.6  | 22.9      |
| 70°-80°   | 2549.9  | 20.8      |
| 80°-90°   | 371.7   | 3.0       |
| 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°    | 12279.0 | 100.0     |
| 0°-180°   | 12279.0 | 100.0     |



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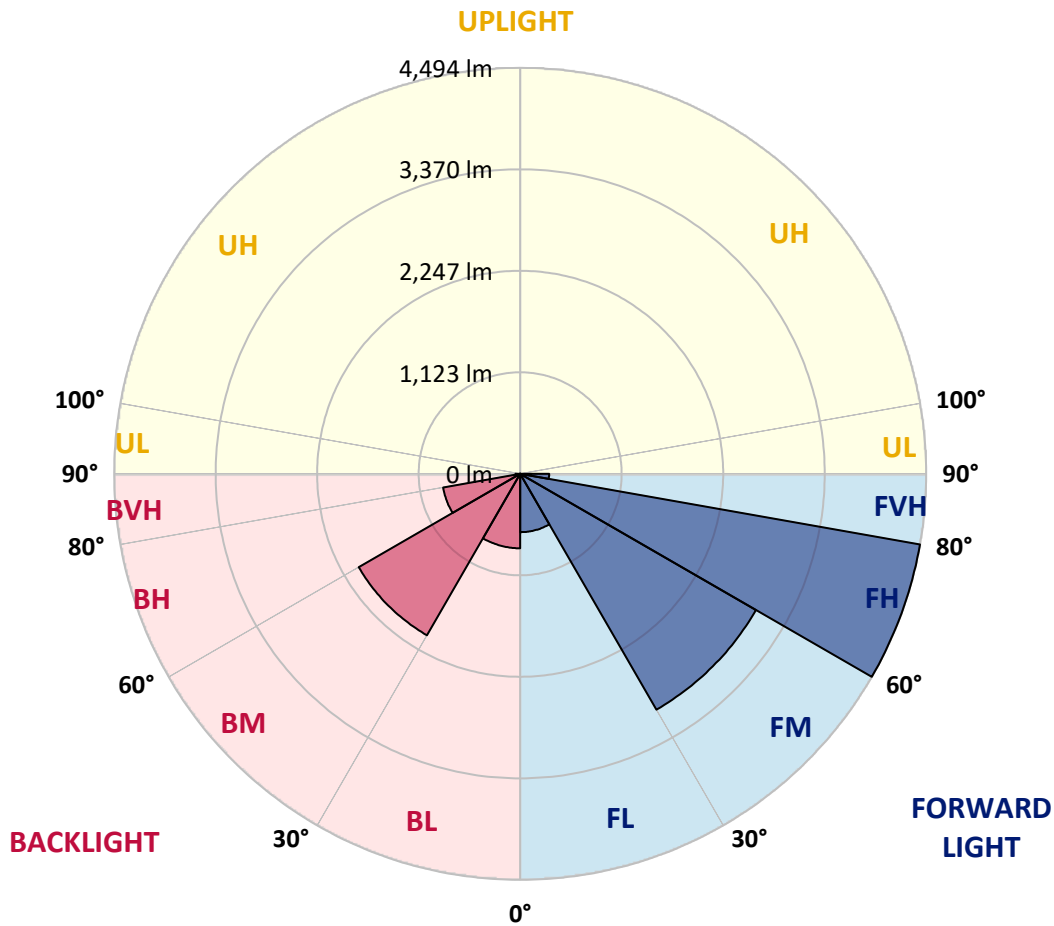
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 645.9  | 5.3       |                         |      |         |
| FM (30°-60°)   | 3014.2 | 24.5      |                         |      |         |
| FH (60°-80°)   | 4493.9 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 320.5  | 2.6       |                         |      | G3/500  |
| BL (0°-30°)    | 824.1  | 6.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 2063.6 | 16.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 865.6  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 51.2   | 0.4       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 |
| 2.5°  | 1382.6 | 1390.4 | 1388.5 | 1385.9 | 1385.9 | 1386.5 | 1385.9 | 1390.4 | 1395.0 | 1399.6 |
| 5°    | 1397.0 | 1404.8 | 1400.9 | 1397.6 | 1395.0 | 1394.4 | 1392.4 | 1391.7 | 1394.4 | 1400.2 |
| 7.5°  | 1425.0 | 1432.8 | 1426.9 | 1421.1 | 1415.8 | 1413.2 | 1410.6 | 1406.7 | 1404.8 | 1408.0 |
| 10°   | 1456.2 | 1464.0 | 1456.9 | 1446.5 | 1438.0 | 1434.7 | 1432.1 | 1428.2 | 1425.6 | 1427.6 |
| 12.5° | 1487.5 | 1495.3 | 1485.5 | 1471.2 | 1460.1 | 1458.2 | 1454.9 | 1453.6 | 1453.0 | 1452.3 |
| 15°   | 1516.8 | 1523.3 | 1510.9 | 1494.0 | 1482.3 | 1479.0 | 1475.8 | 1477.7 | 1481.0 | 1484.9 |
| 17.5° | 1539.6 | 1546.1 | 1527.9 | 1505.7 | 1494.6 | 1493.3 | 1491.4 | 1497.9 | 1507.0 | 1516.8 |
| 20°   | 1560.4 | 1566.9 | 1543.5 | 1513.5 | 1500.5 | 1500.5 | 1501.2 | 1514.8 | 1527.9 | 1542.2 |
| 22.5° | 1589.7 | 1594.9 | 1566.3 | 1525.3 | 1506.4 | 1507.7 | 1512.9 | 1526.6 | 1542.8 | 1562.4 |
| 25°   | 1633.4 | 1637.3 | 1602.1 | 1547.4 | 1525.9 | 1529.8 | 1534.4 | 1540.9 | 1556.5 | 1579.3 |
| 27.5° | 1703.7 | 1707.0 | 1660.7 | 1586.5 | 1553.9 | 1560.4 | 1566.9 | 1562.4 | 1569.5 | 1589.1 |
| 30°   | 1802.7 | 1804.6 | 1746.0 | 1647.7 | 1601.5 | 1604.7 | 1606.0 | 1587.1 | 1573.4 | 1589.1 |
| 32.5° | 1919.9 | 1919.3 | 1849.6 | 1721.9 | 1655.5 | 1652.3 | 1641.2 | 1604.1 | 1572.1 | 1585.8 |
| 35°   | 2101.6 | 2094.5 | 2004.6 | 1826.1 | 1716.7 | 1696.5 | 1670.5 | 1622.9 | 1578.7 | 1582.6 |
| 37.5° | 2402.5 | 2380.4 | 2256.0 | 1996.8 | 1807.9 | 1756.5 | 1718.0 | 1653.6 | 1593.0 | 1581.3 |
| 40°   | 2741.8 | 2713.8 | 2577.0 | 2230.6 | 1944.7 | 1862.0 | 1800.1 | 1697.2 | 1616.4 | 1587.1 |
| 42.5° | 3144.3 | 3104.6 | 2957.4 | 2506.1 | 2117.9 | 1998.1 | 1904.9 | 1752.5 | 1650.9 | 1606.0 |
| 45°   | 3638.6 | 3585.8 | 3377.4 | 2816.7 | 2336.1 | 2176.5 | 2052.1 | 1836.6 | 1703.7 | 1642.5 |
| 47.5° | 4138.1 | 4151.1 | 3854.8 | 3172.3 | 2597.9 | 2396.6 | 2236.4 | 1962.9 | 1780.5 | 1701.1 |
| 50°   | 4668.9 | 4678.0 | 4329.6 | 3566.3 | 2894.9 | 2645.4 | 2443.5 | 2104.2 | 1887.4 | 1784.5 |
| 52.5° | 5083.1 | 5084.4 | 4760.7 | 3978.6 | 3204.2 | 2919.0 | 2666.9 | 2265.7 | 2011.1 | 1895.2 |
| 55°   | 5342.3 | 5339.0 | 5062.9 | 4368.7 | 3559.8 | 3206.2 | 2914.4 | 2449.4 | 2162.2 | 2025.4 |
| 57.5° | 5530.5 | 5520.7 | 5271.3 | 4704.1 | 3938.8 | 3545.5 | 3194.4 | 2657.8 | 2340.6 | 2180.4 |
| 60°   | 5602.2 | 5596.3 | 5412.6 | 4993.9 | 4337.4 | 3920.6 | 3517.5 | 2891.0 | 2543.2 | 2363.4 |
| 62.5° | 5629.5 | 5640.6 | 5551.4 | 5274.6 | 4764.0 | 4336.1 | 3872.4 | 3169.7 | 2771.1 | 2570.5 |
| 65°   | 5725.9 | 5746.1 | 5727.8 | 5641.9 | 5245.9 | 4822.6 | 4343.3 | 3501.2 | 3019.9 | 2792.6 |
| 67.5° | 5916.7 | 5936.9 | 5944.7 | 6081.5 | 5834.7 | 5428.9 | 4930.7 | 3914.1 | 3311.0 | 3023.2 |
| 70°   | 5912.2 | 5906.3 | 6044.4 | 6431.2 | 6571.9 | 6268.4 | 5722.6 | 4422.1 | 3658.1 | 3214.6 |
| 72.5° | 5381.4 | 5334.5 | 5660.8 | 6427.3 | 7185.4 | 7145.0 | 6689.8 | 5077.2 | 3957.7 | 3238.1 |
| 75°   | 4037.2 | 3912.1 | 4488.5 | 5792.3 | 7287.6 | 7642.6 | 7304.6 | 5483.6 | 3886.7 | 2861.0 |
| 77.5° | 1726.5 | 1600.8 | 2280.1 | 4287.9 | 6522.4 | 7144.3 | 6740.6 | 4784.2 | 3102.6 | 1891.9 |
| 80°   | 452.0  | 451.3  | 689.0  | 1944.0 | 4435.7 | 5275.9 | 4628.5 | 3089.6 | 1772.7 | 676.0  |
| 82.5° | 186.9  | 182.4  | 253.3  | 756.1  | 2167.4 | 2960.6 | 2416.2 | 1378.1 | 640.2  | 183.0  |
| 85°   | 69.7   | 69.0   | 123.1  | 261.2  | 764.6  | 1221.1 | 883.8  | 352.3  | 159.6  | 89.2   |
| 87.5° | 19.5   | 18.9   | 26.7   | 90.5   | 186.3  | 282.6  | 151.1  | 58.0   | 44.9   | 35.2   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1404.1 | 0°    | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 |
| 1406.7 | 2.5°  | 1408.7 | 1411.9 | 1417.8 | 1422.4 | 1428.2 | 1434.7 | 1443.8 | 1449.7 | 1455.6 | 1459.5 |
| 1410.0 | 5°    | 1414.5 | 1421.7 | 1436.7 | 1451.7 | 1469.2 | 1485.5 | 1504.4 | 1518.1 | 1529.2 | 1532.4 |
| 1421.7 | 7.5°  | 1427.6 | 1439.3 | 1464.7 | 1490.1 | 1518.1 | 1544.8 | 1572.1 | 1595.6 | 1614.5 | 1621.6 |
| 1442.5 | 10°   | 1450.4 | 1466.0 | 1501.8 | 1537.6 | 1574.8 | 1615.8 | 1650.9 | 1684.8 | 1711.5 | 1722.6 |
| 1467.3 | 12.5° | 1479.0 | 1498.6 | 1545.4 | 1594.9 | 1646.4 | 1703.0 | 1748.6 | 1790.3 | 1823.5 | 1838.5 |
| 1501.8 | 15°   | 1516.1 | 1541.5 | 1601.5 | 1667.9 | 1743.4 | 1822.2 | 1880.2 | 1926.4 | 1963.6 | 1981.8 |
| 1537.6 | 17.5° | 1556.5 | 1590.4 | 1665.9 | 1766.2 | 1874.3 | 1977.9 | 2045.6 | 2079.5 | 2117.9 | 2135.5 |
| 1570.8 | 20°   | 1595.6 | 1637.3 | 1745.4 | 1891.3 | 2035.2 | 2145.3 | 2200.0 | 2209.1 | 2211.7 | 2213.6 |
| 1602.1 | 22.5° | 1636.0 | 1692.0 | 1845.0 | 2048.9 | 2203.2 | 2279.4 | 2287.2 | 2248.2 | 2193.4 | 2168.0 |
| 1632.7 | 25°   | 1680.3 | 1754.5 | 1975.3 | 2222.8 | 2347.8 | 2356.9 | 2297.0 | 2201.9 | 2098.4 | 2050.8 |
| 1657.5 | 27.5° | 1723.2 | 1826.8 | 2131.6 | 2388.8 | 2452.0 | 2371.9 | 2242.9 | 2108.1 | 1983.1 | 1932.9 |
| 1675.0 | 30°   | 1766.2 | 1909.5 | 2304.2 | 2534.1 | 2499.5 | 2334.8 | 2157.6 | 2007.2 | 1881.5 | 1828.7 |
| 1690.7 | 32.5° | 1809.9 | 2005.9 | 2502.8 | 2638.9 | 2491.1 | 2256.0 | 2051.5 | 1893.9 | 1783.2 | 1727.8 |
| 1704.4 | 35°   | 1859.4 | 2124.4 | 2691.0 | 2696.2 | 2434.4 | 2140.0 | 1911.5 | 1758.4 | 1662.0 | 1617.7 |
| 1720.6 | 37.5° | 1923.8 | 2274.9 | 2857.1 | 2710.6 | 2335.4 | 1970.1 | 1737.6 | 1598.2 | 1518.7 | 1498.6 |
| 1744.7 | 40°   | 2003.9 | 2455.9 | 2984.1 | 2687.8 | 2188.9 | 1763.6 | 1547.4 | 1436.0 | 1391.1 | 1395.7 |
| 1777.3 | 42.5° | 2108.1 | 2658.4 | 3073.3 | 2629.1 | 1985.0 | 1550.7 | 1380.7 | 1331.2 | 1352.7 | 1370.9 |
| 1826.1 | 45°   | 2243.6 | 2868.8 | 3128.7 | 2529.5 | 1754.5 | 1370.3 | 1282.3 | 1294.1 | 1310.3 | 1312.3 |
| 1904.9 | 47.5° | 2416.8 | 3081.8 | 3165.1 | 2379.1 | 1519.4 | 1243.3 | 1219.8 | 1222.4 | 1219.2 | 1205.5 |
| 2022.8 | 50°   | 2633.1 | 3288.9 | 3197.7 | 2179.8 | 1319.5 | 1163.8 | 1132.5 | 1123.4 | 1078.5 | 1034.2 |
| 2179.8 | 52.5° | 2879.2 | 3479.0 | 3211.4 | 1932.3 | 1163.8 | 1097.4 | 1046.6 | 989.3  | 905.3  | 891.6  |
| 2377.1 | 55°   | 3152.8 | 3654.9 | 3176.2 | 1628.2 | 1032.9 | 1012.1 | 935.2  | 866.2  | 857.1  | 845.3  |
| 2637.0 | 57.5° | 3479.7 | 3844.4 | 3104.6 | 1288.8 | 898.7  | 912.4  | 837.5  | 845.3  | 829.1  | 810.8  |
| 2971.1 | 60°   | 3837.2 | 4040.4 | 2978.9 | 979.5  | 760.0  | 788.0  | 812.1  | 811.5  | 806.9  | 791.9  |
| 3323.4 | 62.5° | 4159.0 | 4169.4 | 2731.4 | 750.3  | 638.2  | 691.6  | 757.4  | 756.8  | 752.9  | 744.4  |
| 3691.4 | 65°   | 4350.4 | 4149.8 | 2318.5 | 590.7  | 537.9  | 612.2  | 683.2  | 688.4  | 689.0  | 688.4  |
| 3968.1 | 67.5° | 4316.6 | 3921.2 | 1751.9 | 470.2  | 455.2  | 531.4  | 609.6  | 616.7  | 622.0  | 623.3  |
| 4003.3 | 70°   | 3933.6 | 3419.1 | 1142.3 | 375.1  | 381.6  | 460.4  | 539.9  | 547.1  | 551.6  | 556.8  |
| 3473.8 | 72.5° | 3066.1 | 2513.9 | 653.9  | 303.5  | 317.2  | 399.2  | 470.9  | 479.3  | 481.9  | 491.7  |
| 2417.5 | 75°   | 1868.5 | 1478.4 | 353.0  | 239.0  | 260.5  | 341.3  | 402.5  | 412.2  | 416.8  | 428.5  |
| 1187.2 | 77.5° | 888.3  | 640.2  | 201.2  | 186.3  | 209.7  | 278.7  | 340.0  | 351.0  | 338.7  | 345.2  |
| 327.6  | 80°   | 300.2  | 237.7  | 127.0  | 142.0  | 160.2  | 217.5  | 272.2  | 283.3  | 257.2  | 255.9  |
| 108.8  | 82.5° | 104.9  | 96.4   | 80.8   | 94.4   | 103.6  | 155.7  | 205.8  | 220.1  | 191.5  | 190.8  |
| 48.8   | 85°   | 41.0   | 39.1   | 44.9   | 51.4   | 61.9   | 95.7   | 135.5  | 142.6  | 117.9  | 95.1   |
| 14.3   | 87.5° | 8.5    | 9.1    | 11.1   | 11.7   | 18.9   | 33.2   | 48.8   | 59.9   | 47.5   | 40.4   |
| 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> |
|-------------|
| 1404.1      |
| 1456.9      |
| 1533.7      |
| 1622.3      |
| 1723.2      |
| 1838.5      |
| 1980.5      |
| 2134.8      |
| 2218.8      |
| 2175.2      |
| 2058.0      |
| 1938.8      |
| 1834.6      |
| 1735.0      |
| 1627.5      |
| 1512.9      |
| 1411.3      |
| 1387.8      |
| 1325.3      |
| 1215.9      |
| 1040.1      |
| 896.1       |
| 847.3       |
| 807.6       |
| 786.7       |
| 741.1       |
| 688.4       |
| 624.6       |
| 559.4       |
| 495.6       |
| 429.8       |
| 340.0       |
| 253.3       |
| 181.7       |
| 93.8        |
| 37.1        |
| 0.0         |

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