

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: P948206

Luminaire Tested: **GALN-SB3B-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3B-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

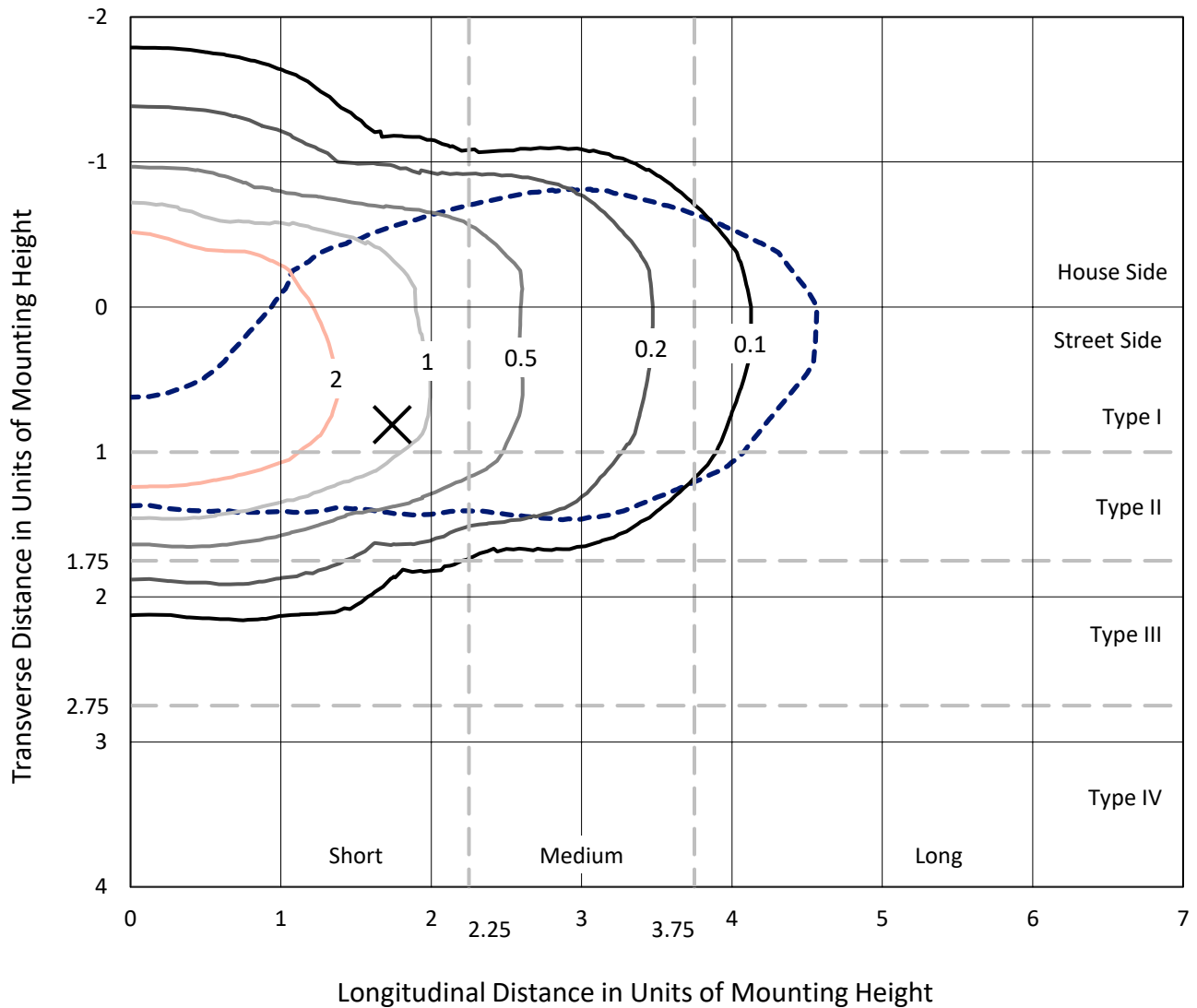
Lumens per Lamp: N/A  
Luminaire Lumens: 14888 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

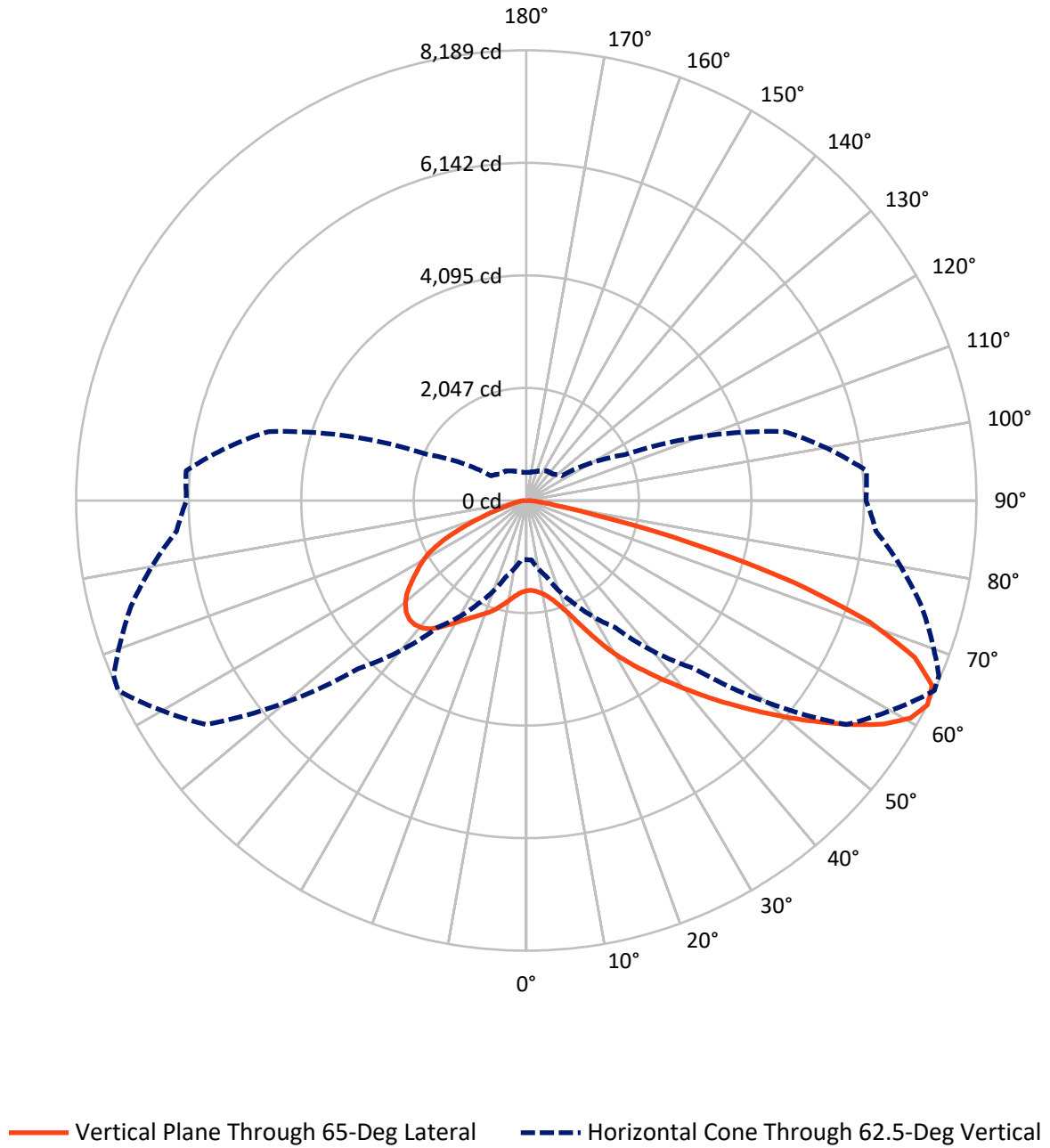
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - 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    | 4698.0   | 0.0    | 4698.0  |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 10190.0  | 0.0    | 10190.0 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 14888.0  | 0.0    | 14888.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 163.6   | 1.1       |
| 10°-20°   | 554.7   | 3.7       |
| 20°-30°   | 1124.6  | 7.6       |
| 30°-40°   | 1946.2  | 13.1      |
| 40°-50°   | 2945.2  | 19.8      |
| 50°-60°   | 3453.0  | 23.2      |
| 60°-70°   | 2894.9  | 19.4      |
| 70°-80°   | 1598.2  | 10.7      |
| 80°-90°   | 207.6   | 1.4       |
| 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°    | 14888.0 | 100.0     |
| 0°-180°   | 14888.0 | 100.0     |



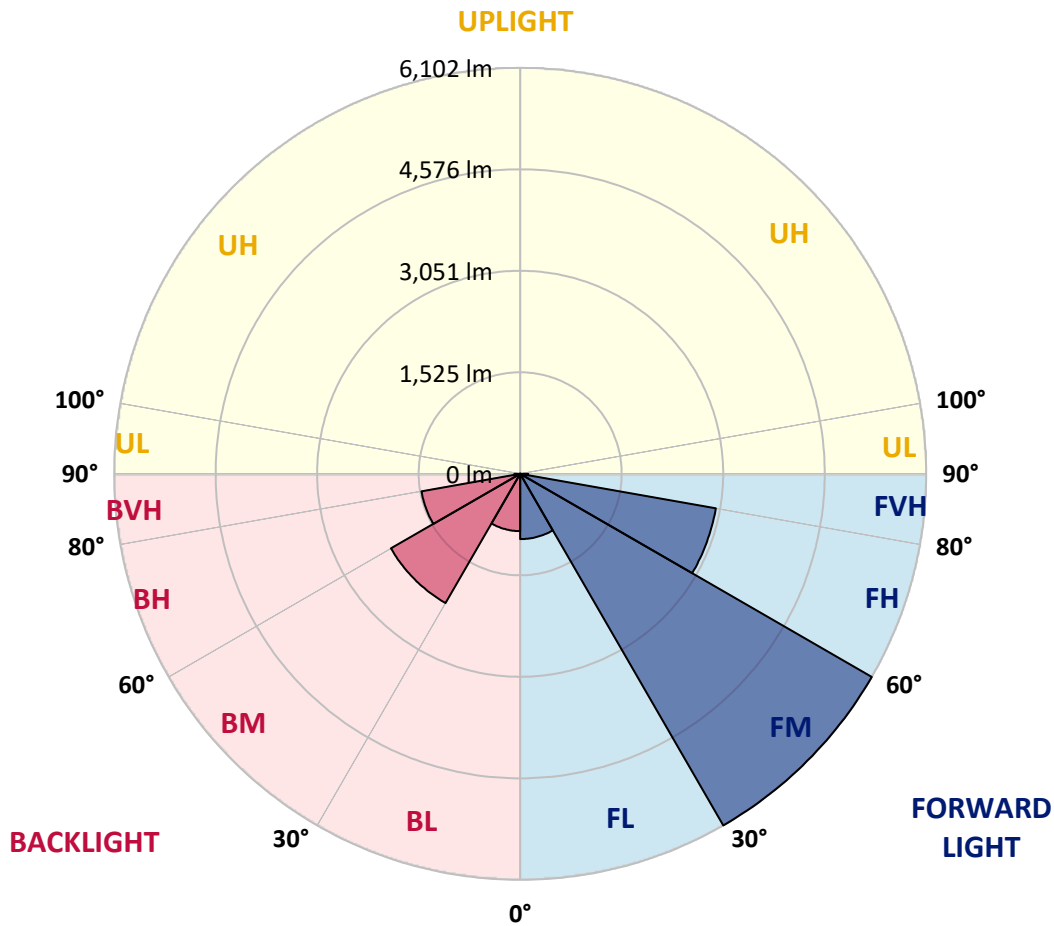
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 981.3  | 6.6       |                         |      |         |
| FM (30°-60°)   | 6101.6 | 41.0      |                         |      |         |
| FH (60°-80°)   | 2986.1 | 20.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 121.0  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 861.6  | 5.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 2242.8 | 15.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1507.1 | 10.1      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 86.6   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 |
| 2.5°  | 1629.8 | 1625.1 | 1629.0 | 1629.0 | 1630.6 | 1629.8 | 1635.2 | 1636.7 | 1639.0 | 1643.7 |
| 5°    | 1613.6 | 1612.8 | 1619.7 | 1625.9 | 1632.1 | 1637.5 | 1644.5 | 1654.5 | 1656.0 | 1661.4 |
| 7.5°  | 1608.2 | 1603.5 | 1614.3 | 1622.1 | 1636.7 | 1649.9 | 1668.4 | 1685.4 | 1692.3 | 1694.7 |
| 10°   | 1649.9 | 1642.1 | 1652.2 | 1656.8 | 1669.2 | 1682.3 | 1703.9 | 1731.0 | 1738.7 | 1748.0 |
| 12.5° | 1720.9 | 1712.4 | 1727.1 | 1734.1 | 1745.6 | 1757.2 | 1771.9 | 1798.2 | 1802.0 | 1819.0 |
| 15°   | 1818.2 | 1808.2 | 1817.5 | 1826.0 | 1845.3 | 1856.1 | 1870.8 | 1896.3 | 1896.3 | 1909.4 |
| 17.5° | 1950.3 | 1937.2 | 1944.1 | 1947.2 | 1959.6 | 1975.8 | 2000.5 | 2022.9 | 2034.5 | 2029.9 |
| 20°   | 2147.3 | 2131.1 | 2131.1 | 2115.6 | 2111.0 | 2124.1 | 2156.6 | 2187.5 | 2199.8 | 2175.9 |
| 22.5° | 2443.1 | 2420.0 | 2406.8 | 2354.3 | 2333.4 | 2335.0 | 2367.4 | 2405.3 | 2415.3 | 2372.8 |
| 25°   | 2819.3 | 2783.0 | 2765.2 | 2688.0 | 2640.9 | 2599.9 | 2625.4 | 2674.1 | 2688.0 | 2635.5 |
| 27.5° | 3195.4 | 3197.8 | 3180.8 | 3088.1 | 3010.1 | 2935.1 | 2922.0 | 2973.0 | 2987.7 | 2928.2 |
| 30°   | 3723.0 | 3668.2 | 3635.7 | 3524.5 | 3413.3 | 3308.2 | 3254.2 | 3275.0 | 3278.9 | 3207.8 |
| 32.5° | 4178.0 | 4164.0 | 4094.5 | 3997.2 | 3854.3 | 3689.8 | 3599.4 | 3566.2 | 3560.0 | 3458.8 |
| 35°   | 4696.2 | 4688.5 | 4615.1 | 4499.3 | 4344.8 | 4116.2 | 3953.2 | 3858.2 | 3850.5 | 3708.3 |
| 37.5° | 5223.0 | 5223.0 | 5151.2 | 5024.5 | 4864.6 | 4578.8 | 4330.9 | 4180.3 | 4155.6 | 3970.2 |
| 40°   | 5643.2 | 5617.7 | 5630.8 | 5577.6 | 5394.5 | 5090.9 | 4750.3 | 4531.7 | 4498.5 | 4276.0 |
| 42.5° | 5881.9 | 5873.4 | 5952.2 | 6011.6 | 5936.7 | 5694.2 | 5212.2 | 4912.5 | 4866.2 | 4612.8 |
| 45°   | 5935.2 | 5925.9 | 6066.5 | 6284.3 | 6389.4 | 6289.7 | 5714.3 | 5313.4 | 5257.0 | 4965.0 |
| 47.5° | 5812.4 | 5793.8 | 6000.1 | 6343.8 | 6680.6 | 6855.9 | 6258.0 | 5748.3 | 5666.4 | 5308.0 |
| 50°   | 5443.2 | 5425.4 | 5737.4 | 6193.9 | 6778.6 | 7240.5 | 6848.2 | 6209.4 | 6084.3 | 5675.6 |
| 52.5° | 4640.6 | 4649.1 | 5138.1 | 5765.2 | 6649.7 | 7480.0 | 7356.4 | 6695.2 | 6544.6 | 6051.8 |
| 55°   | 3614.9 | 3633.4 | 4234.3 | 4924.9 | 6133.7 | 7443.7 | 7703.2 | 7195.7 | 7045.9 | 6405.6 |
| 57.5° | 2588.3 | 2670.2 | 3233.3 | 3916.9 | 5142.7 | 6868.2 | 7778.9 | 7671.5 | 7526.3 | 6791.8 |
| 60°   | 1677.7 | 1692.3 | 2271.6 | 2960.6 | 3916.1 | 5845.6 | 7625.2 | 8032.3 | 7918.7 | 7185.7 |
| 62.5° | 1075.2 | 1085.2 | 1438.2 | 2070.8 | 2818.5 | 4324.7 | 7107.7 | 8189.1 | 8154.3 | 7446.0 |
| 65°   | 790.2  | 782.4  | 966.3  | 1368.7 | 1898.6 | 2667.1 | 6102.8 | 8113.4 | 8182.1 | 7609.0 |
| 67.5° | 659.6  | 648.8  | 739.2  | 947.7  | 1398.8 | 1514.7 | 4515.5 | 7621.3 | 7873.1 | 7590.4 |
| 70°   | 600.9  | 591.7  | 646.5  | 703.7  | 1091.4 | 1014.2 | 2276.3 | 6625.7 | 7013.5 | 7379.6 |
| 72.5° | 509.0  | 492.8  | 567.7  | 624.9  | 848.9  | 777.8  | 940.8  | 5089.4 | 5562.1 | 6703.7 |
| 75°   | 394.7  | 383.9  | 448.0  | 550.0  | 638.0  | 607.1  | 594.8  | 3090.4 | 3606.4 | 5184.4 |
| 77.5° | 312.8  | 298.1  | 356.9  | 428.7  | 573.9  | 458.0  | 433.3  | 1330.9 | 1842.2 | 3309.8 |
| 80°   | 235.6  | 222.5  | 271.1  | 339.1  | 441.0  | 345.3  | 280.4  | 543.0  | 694.4  | 1676.9 |
| 82.5° | 167.6  | 156.0  | 189.2  | 248.7  | 296.6  | 309.7  | 172.2  | 304.3  | 342.2  | 646.5  |
| 85°   | 107.4  | 100.4  | 126.7  | 156.0  | 188.5  | 199.3  | 105.0  | 159.1  | 174.6  | 266.5  |
| 87.5° | 58.7   | 47.9   | 68.0   | 72.6   | 87.3   | 79.6   | 50.2   | 57.9   | 62.6   | 96.6   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1640.6 | 0°    | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 | 1640.6 |
| 1643.7 | 2.5°  | 1646.8 | 1649.1 | 1656.8 | 1659.1 | 1664.5 | 1671.5 | 1676.1 | 1680.8 | 1680.8 | 1685.4 |
| 1668.4 | 5°    | 1669.2 | 1674.6 | 1690.8 | 1699.3 | 1713.2 | 1727.1 | 1735.6 | 1745.6 | 1751.8 | 1754.9 |
| 1707.8 | 7.5°  | 1712.4 | 1720.9 | 1744.1 | 1758.8 | 1782.7 | 1802.0 | 1815.2 | 1829.1 | 1832.2 | 1840.6 |
| 1762.6 | 10°   | 1771.1 | 1781.2 | 1807.4 | 1835.2 | 1863.8 | 1887.8 | 1900.1 | 1910.2 | 1914.0 | 1915.6 |
| 1832.9 | 12.5° | 1838.3 | 1853.0 | 1887.0 | 1921.0 | 1951.1 | 1972.0 | 1975.0 | 1972.7 | 1961.9 | 1952.6 |
| 1919.4 | 15°   | 1921.0 | 1934.1 | 1972.0 | 2009.0 | 2038.4 | 2042.2 | 2022.9 | 2010.6 | 1997.4 | 1995.1 |
| 2016.0 | 17.5° | 2019.8 | 2026.8 | 2061.6 | 2097.9 | 2100.2 | 2087.0 | 2058.5 | 2046.9 | 2034.5 | 2026.0 |
| 2141.9 | 20°   | 2134.9 | 2132.6 | 2157.3 | 2172.8 | 2156.6 | 2116.4 | 2073.1 | 2053.8 | 2041.5 | 2031.4 |
| 2296.4 | 22.5° | 2272.4 | 2254.7 | 2251.6 | 2247.7 | 2204.5 | 2120.3 | 2061.6 | 2036.8 | 2017.5 | 2003.6 |
| 2511.9 | 25°   | 2472.5 | 2404.5 | 2357.4 | 2331.1 | 2233.8 | 2099.4 | 2024.5 | 1969.6 | 1933.3 | 1909.4 |
| 2775.3 | 27.5° | 2722.7 | 2608.4 | 2489.5 | 2425.4 | 2233.8 | 2056.9 | 1934.9 | 1846.1 | 1786.6 | 1761.9 |
| 3030.2 | 30°   | 2961.4 | 2841.7 | 2666.3 | 2538.9 | 2228.4 | 1987.4 | 1790.4 | 1666.9 | 1597.3 | 1572.6 |
| 3248.0 | 32.5° | 3165.3 | 3034.8 | 2854.0 | 2663.3 | 2215.3 | 1874.6 | 1611.2 | 1474.5 | 1407.3 | 1378.0 |
| 3463.5 | 35°   | 3354.6 | 3215.5 | 3042.5 | 2800.0 | 2180.5 | 1709.3 | 1414.3 | 1310.0 | 1235.1 | 1188.0 |
| 3682.8 | 37.5° | 3548.4 | 3383.1 | 3220.9 | 2923.6 | 2117.9 | 1516.2 | 1262.9 | 1174.1 | 1086.0 | 1022.7 |
| 3916.1 | 40°   | 3759.3 | 3561.6 | 3411.7 | 2996.9 | 2015.2 | 1332.4 | 1145.5 | 1064.4 | 970.9  | 903.7  |
| 4184.9 | 42.5° | 4005.7 | 3775.5 | 3624.1 | 3034.8 | 1874.6 | 1201.9 | 1069.0 | 989.5  | 901.4  | 846.6  |
| 4473.0 | 45°   | 4262.9 | 4011.1 | 3818.0 | 3034.0 | 1717.8 | 1140.8 | 1044.3 | 965.5  | 868.2  | 811.0  |
| 4768.8 | 47.5° | 4532.5 | 4257.5 | 3985.6 | 2984.6 | 1581.9 | 1149.3 | 1030.4 | 913.8  | 806.4  | 750.8  |
| 5067.8 | 50°   | 4802.8 | 4527.1 | 4147.8 | 2891.9 | 1524.0 | 1130.8 | 978.6  | 841.2  | 714.5  | 664.3  |
| 5348.1 | 52.5° | 5070.9 | 4813.6 | 4287.6 | 2759.8 | 1465.3 | 1062.1 | 912.2  | 746.9  | 676.6  | 641.9  |
| 5637.8 | 55°   | 5340.4 | 5097.1 | 4439.8 | 2567.5 | 1318.5 | 981.7  | 801.0  | 711.4  | 646.5  | 614.8  |
| 5921.3 | 57.5° | 5610.8 | 5424.6 | 4584.2 | 2375.2 | 1133.9 | 882.9  | 740.0  | 668.1  | 616.4  | 589.3  |
| 6158.4 | 60°   | 5891.9 | 5799.2 | 4733.3 | 2198.3 | 951.6  | 756.2  | 695.2  | 633.4  | 580.9  | 550.7  |
| 6386.3 | 62.5° | 6181.6 | 6211.7 | 4849.9 | 1970.4 | 784.0  | 678.9  | 655.0  | 591.7  | 540.7  | 512.1  |
| 6574.7 | 65°   | 6473.5 | 6609.5 | 4926.4 | 1654.5 | 635.7  | 605.6  | 611.7  | 546.1  | 494.3  | 469.6  |
| 6713.0 | 67.5° | 6693.7 | 6896.1 | 4904.8 | 1252.1 | 521.4  | 536.1  | 557.7  | 498.2  | 449.5  | 430.2  |
| 6690.6 | 70°   | 6718.4 | 6862.1 | 4691.6 | 857.4  | 436.4  | 468.1  | 497.4  | 451.1  | 400.9  | 387.0  |
| 6375.4 | 72.5° | 6389.4 | 6398.6 | 4097.6 | 560.0  | 369.2  | 410.9  | 434.1  | 403.2  | 354.5  | 340.6  |
| 5577.6 | 75°   | 5526.6 | 5291.8 | 3008.5 | 369.2  | 309.0  | 353.0  | 374.6  | 353.0  | 305.9  | 309.0  |
| 4173.3 | 77.5° | 4187.2 | 3747.7 | 1826.7 | 262.6  | 258.0  | 296.6  | 326.0  | 310.5  | 270.3  | 303.6  |
| 2098.6 | 80°   | 2157.3 | 2027.6 | 814.9  | 196.2  | 203.9  | 237.1  | 268.0  | 247.9  | 214.0  | 203.9  |
| 468.9  | 82.5° | 494.3  | 574.7  | 321.3  | 140.6  | 147.5  | 170.7  | 204.7  | 186.2  | 153.7  | 129.8  |
| 195.4  | 85°   | 173.0  | 189.2  | 142.1  | 88.1   | 86.5   | 106.6  | 139.0  | 124.4  | 104.3  | 83.4   |
| 82.6   | 87.5° | 54.8   | 71.8   | 53.3   | 35.5   | 37.1   | 47.9   | 64.1   | 58.7   | 48.7   | 31.7   |
| 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> |
|-------------|
| 1640.6      |
| 1685.4      |
| 1756.5      |
| 1837.6      |
| 1911.7      |
| 1952.6      |
| 1995.1      |
| 2026.8      |
| 2032.2      |
| 2008.3      |
| 1918.7      |
| 1774.2      |
| 1587.3      |
| 1392.7      |
| 1203.4      |
| 1039.7      |
| 916.8       |
| 857.4       |
| 820.3       |
| 758.5       |
| 667.4       |
| 641.9       |
| 611.7       |
| 584.7       |
| 548.4       |
| 511.3       |
| 468.9       |
| 431.0       |
| 387.7       |
| 339.9       |
| 298.1       |
| 267.3       |
| 186.2       |
| 128.2       |
| 88.1        |
| 33.2        |
| 0.0         |

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