

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: P940818

Luminaire Tested: **GALN-SB4A-760-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-760-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

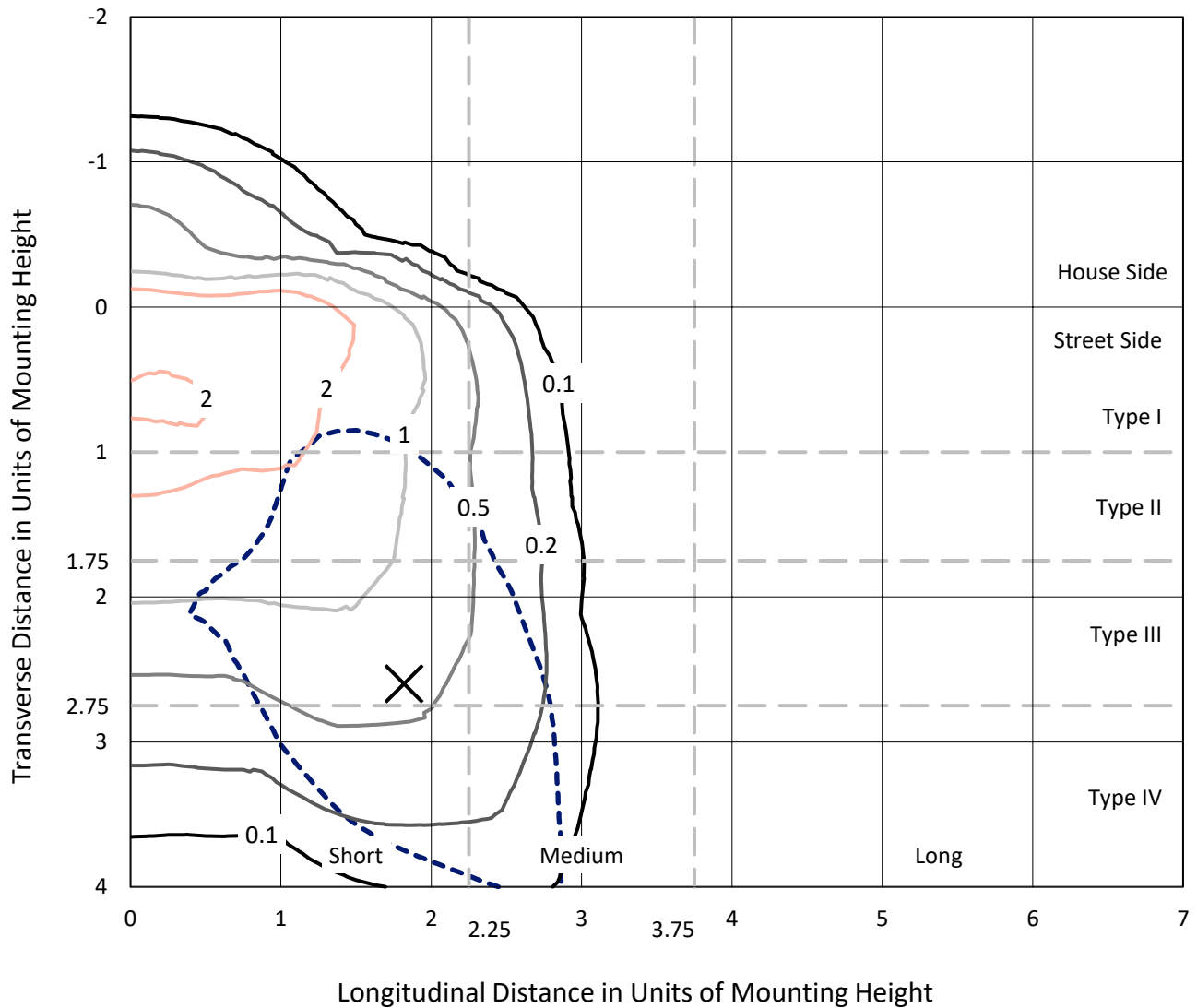
Lumens per Lamp: N/A  
Luminaire Lumens: 14401 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

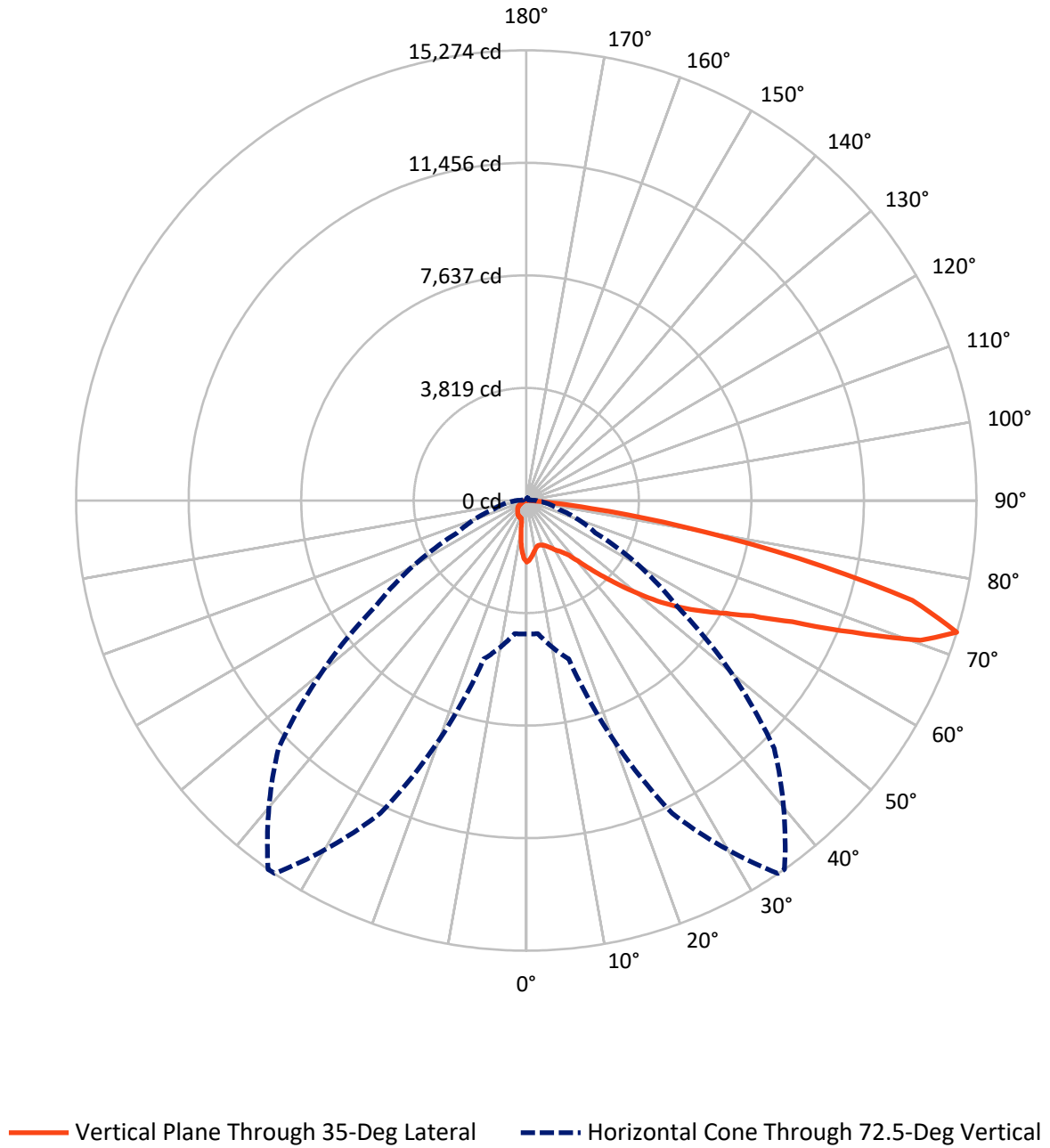
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - 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    | 1620.8   | 0.0    | 1620.8  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 12780.2  | 0.0    | 12780.2 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 14401.0  | 0.0    | 14401.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 171.5   | 1.2       |
| 10°-20°   | 401.2   | 2.8       |
| 20°-30°   | 651.8   | 4.5       |
| 30°-40°   | 1087.5  | 7.6       |
| 40°-50°   | 2057.6  | 14.3      |
| 50°-60°   | 3269.5  | 22.7      |
| 60°-70°   | 4044.6  | 28.1      |
| 70°-80°   | 2514.1  | 17.5      |
| 80°-90°   | 203.2   | 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°    | 14401.0 | 100.0     |
| 0°-180°   | 14401.0 | 100.0     |

**Coefficient of Utilization**



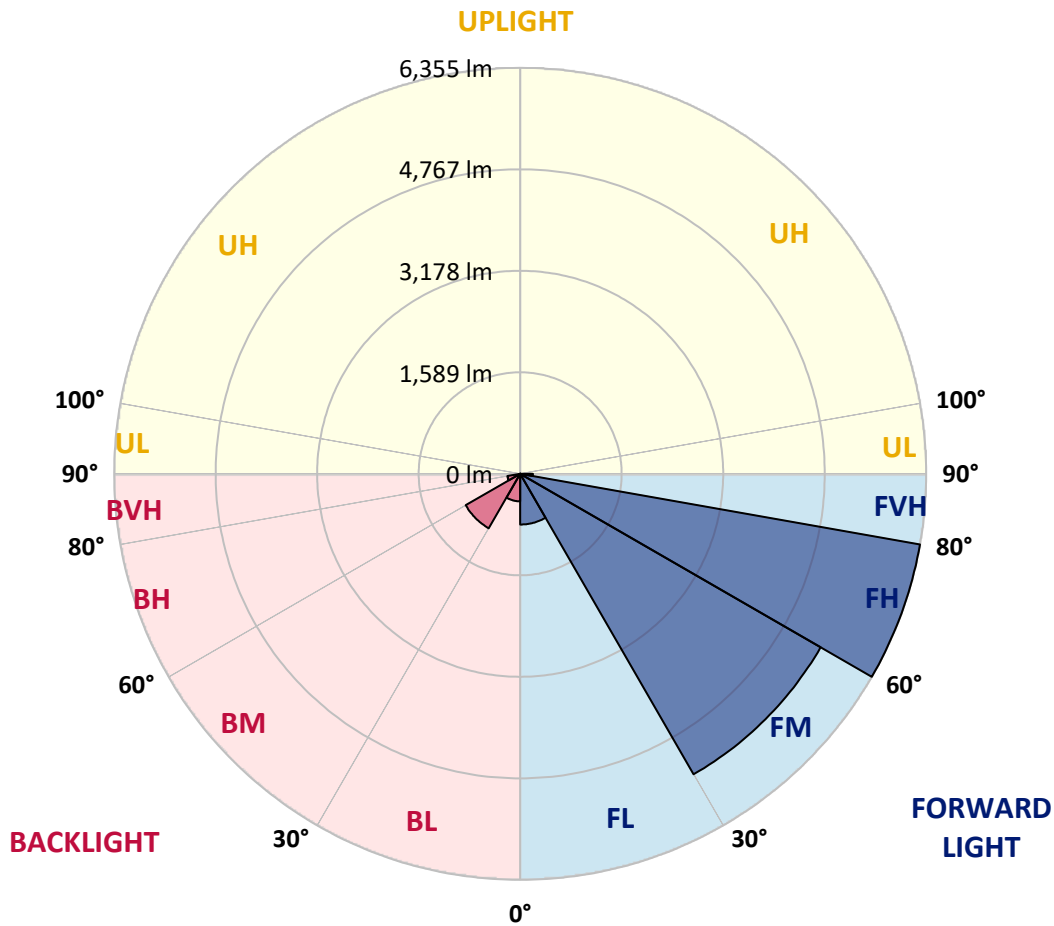
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 793.9  | 5.5       |                         |      |         |
| FM (30°-60°)   | 5430.6 | 37.7      |                         |      |         |
| FH (60°-80°)   | 6355.3 | 44.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 200.4  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 430.7  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 984.0  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 203.4  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.8    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 34°     | 35°     | 45°     | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2087.2 | 2087.2 | 2087.2 | 2087.2  | 2087.2  | 2087.2  | 2087.2  | 2087.2 | 2087.2 | 2087.2 |
| 2.5°  | 1994.3 | 2011.2 | 2014.4 | 2019.7  | 2019.7  | 2026.0  | 2036.5  | 2051.3 | 2075.6 | 2088.2 |
| 5°    | 1838.2 | 1850.8 | 1866.7 | 1879.3  | 1903.6  | 1906.7  | 1947.9  | 1988.0 | 2043.9 | 2086.1 |
| 7.5°  | 1680.9 | 1695.7 | 1716.8 | 1747.4  | 1779.1  | 1788.6  | 1850.8  | 1918.4 | 2007.0 | 2086.1 |
| 10°   | 1570.1 | 1571.2 | 1590.2 | 1620.8  | 1671.4  | 1683.0  | 1759.0  | 1855.0 | 1965.8 | 2073.5 |
| 12.5° | 1507.9 | 1515.3 | 1523.7 | 1546.9  | 1595.5  | 1602.9  | 1684.1  | 1797.0 | 1924.7 | 2066.1 |
| 15°   | 1507.9 | 1513.2 | 1518.4 | 1530.0  | 1569.1  | 1575.4  | 1647.2  | 1760.1 | 1903.6 | 2069.2 |
| 17.5° | 1523.7 | 1532.2 | 1527.9 | 1541.6  | 1582.8  | 1587.0  | 1650.3  | 1749.5 | 1902.5 | 2089.3 |
| 20°   | 1561.7 | 1568.0 | 1559.6 | 1568.0  | 1609.2  | 1617.6  | 1683.0  | 1769.6 | 1920.5 | 2124.1 |
| 22.5° | 1621.8 | 1625.0 | 1605.0 | 1611.3  | 1653.5  | 1664.1  | 1740.0  | 1826.6 | 1963.7 | 2180.0 |
| 25°   | 1697.8 | 1704.1 | 1673.5 | 1680.9  | 1721.0  | 1733.7  | 1821.3  | 1912.0 | 2032.3 | 2257.1 |
| 27.5° | 1785.4 | 1788.6 | 1762.2 | 1761.1  | 1812.8  | 1830.8  | 1919.4  | 2017.5 | 2124.1 | 2354.2 |
| 30°   | 1885.6 | 1895.1 | 1869.8 | 1865.6  | 1931.0  | 1945.8  | 2033.4  | 2147.3 | 2259.2 | 2499.8 |
| 32.5° | 1964.8 | 1972.2 | 1957.4 | 1968.0  | 2034.4  | 2046.0  | 2171.6  | 2330.9 | 2471.3 | 2706.6 |
| 35°   | 2078.7 | 2083.0 | 2049.2 | 2068.2  | 2144.2  | 2173.7  | 2360.5  | 2588.4 | 2738.2 | 2966.2 |
| 37.5° | 2491.3 | 2491.3 | 2347.8 | 2253.9  | 2326.7  | 2353.1  | 2619.0  | 2912.4 | 3067.5 | 3314.4 |
| 40°   | 3062.2 | 3052.7 | 2842.7 | 2650.7  | 2641.2  | 2692.9  | 2987.3  | 3320.7 | 3492.7 | 3732.2 |
| 42.5° | 3671.0 | 3656.3 | 3370.3 | 3180.4  | 3148.7  | 3166.7  | 3412.5  | 3824.0 | 3999.2 | 4241.9 |
| 45°   | 4211.3 | 4207.1 | 3945.4 | 3690.0  | 3633.1  | 3690.0  | 3943.3  | 4412.9 | 4538.4 | 4793.8 |
| 47.5° | 4664.0 | 4664.0 | 4473.0 | 4306.3  | 4276.7  | 4310.5  | 4661.9  | 5066.0 | 5054.4 | 5381.5 |
| 50°   | 5185.3 | 5181.0 | 4999.5 | 4927.8  | 4958.4  | 5005.9  | 5489.2  | 5754.0 | 5588.3 | 5958.7 |
| 52.5° | 5550.4 | 5575.7 | 5513.4 | 5501.8  | 5658.0  | 5740.3  | 6329.1  | 6427.2 | 6066.4 | 6506.4 |
| 55°   | 5839.5 | 5869.0 | 5940.8 | 6022.0  | 6322.8  | 6430.4  | 7142.7  | 7065.6 | 6466.3 | 6981.2 |
| 57.5° | 6248.9 | 6206.7 | 6317.5 | 6477.9  | 6964.3  | 7094.1  | 7930.9  | 7668.1 | 6788.1 | 7366.4 |
| 60°   | 6745.9 | 6752.2 | 6771.2 | 6973.8  | 7604.8  | 7771.6  | 8707.5  | 8238.0 | 6994.9 | 7602.7 |
| 62.5° | 7343.1 | 7352.6 | 7391.7 | 7703.0  | 8464.8  | 8622.0  | 9534.8  | 8704.4 | 7089.9 | 7536.2 |
| 65°   | 7302.0 | 7342.1 | 7777.9 | 8842.6  | 9772.2  | 9927.3  | 10500.3 | 9031.5 | 6946.4 | 6928.5 |
| 67.5° | 6652.0 | 6717.4 | 7446.6 | 10203.8 | 11743.3 | 11916.4 | 11667.4 | 9095.8 | 6327.0 | 5387.9 |
| 70°   | 5799.4 | 5822.6 | 6699.5 | 11427.8 | 14025.7 | 14200.9 | 12712.0 | 8387.8 | 4801.2 | 3005.2 |
| 72.5° | 4528.9 | 4534.2 | 5563.0 | 11711.7 | 15264.5 | 15274.0 | 11892.1 | 6226.7 | 2582.1 | 1154.4 |
| 75°   | 3235.2 | 3203.6 | 3725.9 | 9497.9  | 13429.5 | 13537.2 | 8915.4  | 2920.8 | 986.6  | 545.5  |
| 77.5° | 1734.8 | 1769.6 | 2108.3 | 5632.7  | 9277.3  | 9460.9  | 4864.5  | 842.1  | 502.3  | 371.4  |
| 80°   | 536.0  | 565.6  | 864.2  | 2578.9  | 5254.9  | 5365.7  | 1803.3  | 374.6  | 350.3  | 264.9  |
| 82.5° | 168.8  | 175.2  | 403.1  | 1083.7  | 2181.1  | 2231.8  | 522.3   | 212.1  | 239.5  | 175.2  |
| 85°   | 48.5   | 49.6   | 179.4  | 404.1   | 539.2   | 549.8   | 146.7   | 82.3   | 137.2  | 108.7  |
| 87.5° | 5.3    | 16.9   | 67.5   | 67.5    | 47.5    | 46.4    | 15.8    | 17.9   | 39.0   | 13.7   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2087.2 | 0°    | 2087.2 | 2087.2 | 2087.2 | 2087.2 | 2087.2 | 2087.2 | 2087.2 | 2087.2 | 2087.2 | 2087.2 |
| 2096.7 | 2.5°  | 2091.4 | 2092.5 | 2078.7 | 2055.5 | 2030.2 | 2009.1 | 1982.7 | 1961.6 | 1946.8 | 1942.6 |
| 2115.7 | 5°    | 2106.2 | 2098.8 | 2059.8 | 1989.1 | 1904.6 | 1831.8 | 1750.6 | 1686.2 | 1644.0 | 1626.1 |
| 2135.7 | 7.5°  | 2128.3 | 2107.2 | 2021.8 | 1882.5 | 1721.0 | 1577.5 | 1431.9 | 1319.0 | 1247.2 | 1211.4 |
| 2154.7 | 10°   | 2147.3 | 2105.1 | 1958.5 | 1728.4 | 1481.5 | 1264.1 | 1067.9 | 931.7  | 855.8  | 819.9  |
| 2176.9 | 12.5° | 2165.3 | 2104.1 | 1876.1 | 1545.9 | 1211.4 | 945.5  | 762.9  | 695.4  | 674.3  | 666.9  |
| 2212.8 | 15°   | 2199.0 | 2107.2 | 1772.7 | 1336.9 | 942.3  | 714.4  | 647.9  | 646.8  | 651.1  | 648.9  |
| 2267.6 | 17.5° | 2245.5 | 2110.4 | 1655.6 | 1115.3 | 727.0  | 630.0  | 626.8  | 636.3  | 642.6  | 639.5  |
| 2336.2 | 20°   | 2305.6 | 2123.1 | 1531.1 | 895.9  | 624.7  | 608.9  | 616.2  | 624.7  | 630.0  | 624.7  |
| 2428.0 | 22.5° | 2390.0 | 2145.2 | 1395.0 | 719.6  | 592.0  | 596.2  | 602.5  | 612.0  | 617.3  | 609.9  |
| 2545.1 | 25°   | 2493.4 | 2180.0 | 1261.0 | 625.7  | 576.1  | 581.4  | 590.9  | 601.5  | 607.8  | 600.4  |
| 2692.9 | 27.5° | 2627.5 | 2236.0 | 1137.5 | 604.6  | 560.3  | 563.5  | 577.2  | 593.0  | 601.5  | 592.0  |
| 2902.9 | 30°   | 2821.6 | 2327.8 | 1030.9 | 614.1  | 550.8  | 543.4  | 562.4  | 584.6  | 594.1  | 585.6  |
| 3188.8 | 32.5° | 3079.1 | 2457.6 | 965.5  | 628.9  | 546.6  | 520.2  | 538.2  | 566.6  | 582.5  | 577.2  |
| 3562.4 | 35°   | 3416.7 | 2654.9 | 940.2  | 645.8  | 543.4  | 495.9  | 508.6  | 539.2  | 566.6  | 571.9  |
| 4033.0 | 37.5° | 3826.2 | 2929.2 | 947.6  | 653.2  | 533.9  | 475.9  | 482.2  | 508.6  | 544.5  | 561.4  |
| 4562.7 | 40°   | 4291.5 | 3249.0 | 989.8  | 645.8  | 523.4  | 459.0  | 460.1  | 480.1  | 511.8  | 537.1  |
| 5132.5 | 42.5° | 4771.6 | 3622.5 | 1067.9 | 618.3  | 513.9  | 444.2  | 441.1  | 454.8  | 475.9  | 493.8  |
| 5701.3 | 45°   | 5228.5 | 4006.6 | 1144.9 | 580.4  | 502.3  | 429.5  | 422.1  | 427.4  | 431.6  | 439.0  |
| 6255.2 | 47.5° | 5627.4 | 4276.7 | 1122.7 | 545.5  | 486.4  | 412.6  | 399.9  | 397.8  | 385.1  | 384.1  |
| 6750.1 | 50°   | 5902.8 | 4335.8 | 997.2  | 510.7  | 463.2  | 393.6  | 373.5  | 360.9  | 338.7  | 328.2  |
| 7120.5 | 52.5° | 5990.4 | 4102.6 | 814.6  | 475.9  | 425.2  | 368.3  | 339.8  | 319.7  | 292.3  | 282.8  |
| 7333.6 | 55°   | 5874.3 | 3645.7 | 651.1  | 433.7  | 372.5  | 334.5  | 302.8  | 276.5  | 254.3  | 242.7  |
| 7356.9 | 57.5° | 5590.5 | 3064.3 | 514.9  | 384.1  | 316.6  | 296.5  | 264.9  | 238.5  | 219.5  | 207.9  |
| 7099.4 | 60°   | 5119.8 | 2433.3 | 407.3  | 325.0  | 270.1  | 255.4  | 222.6  | 205.8  | 188.9  | 175.2  |
| 6434.6 | 62.5° | 4405.5 | 1736.9 | 319.7  | 257.5  | 225.8  | 208.9  | 189.9  | 177.3  | 157.2  | 138.2  |
| 5239.1 | 65°   | 3437.8 | 1062.6 | 246.9  | 188.9  | 181.5  | 173.1  | 161.4  | 149.8  | 125.6  | 106.6  |
| 3417.8 | 67.5° | 2168.4 | 503.3  | 176.2  | 142.5  | 143.5  | 139.3  | 134.0  | 124.5  | 106.6  | 89.7   |
| 1531.1 | 70°   | 955.0  | 243.8  | 116.1  | 108.7  | 106.6  | 106.6  | 110.8  | 107.6  | 90.7   | 74.9   |
| 531.8  | 72.5° | 325.0  | 130.8  | 86.5   | 82.3   | 77.0   | 76.0   | 92.9   | 89.7   | 72.8   | 58.0   |
| 264.9  | 75°   | 169.9  | 87.6   | 63.3   | 59.1   | 46.4   | 55.9   | 73.9   | 69.6   | 51.7   | 38.0   |
| 175.2  | 77.5° | 110.8  | 62.3   | 43.3   | 38.0   | 26.4   | 36.9   | 54.9   | 48.5   | 30.6   | 19.0   |
| 115.0  | 80°   | 69.6   | 41.2   | 25.3   | 17.9   | 12.7   | 20.0   | 29.5   | 21.1   | 11.6   | 4.2    |
| 67.5   | 82.5° | 36.9   | 21.1   | 9.5    | 6.3    | 5.3    | 6.3    | 7.4    | 5.3    | 2.1    | 0.0    |
| 34.8   | 85°   | 14.8   | 7.4    | 3.2    | 2.1    | 1.1    | 0.0    | 2.1    | 1.1    | 0.0    | 0.0    |
| 6.3    | 87.5° | 5.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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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|        |
|--------|
| 180°   |
| 2087.2 |
| 1950.0 |
| 1632.4 |
| 1216.6 |
| 820.9  |
| 664.8  |
| 647.9  |
| 638.4  |
| 623.6  |
| 608.9  |
| 599.4  |
| 592.0  |
| 584.6  |
| 577.2  |
| 571.9  |
| 565.6  |
| 545.5  |
| 501.2  |
| 443.2  |
| 383.0  |
| 329.2  |
| 281.7  |
| 242.7  |
| 205.8  |
| 172.0  |
| 135.1  |
| 103.4  |
| 87.6   |
| 71.8   |
| 54.9   |
| 34.8   |
| 16.9   |
| 3.2    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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