

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: STREETWORKS

Report Number: P949318

Luminaire Tested: **GLAN-SB4A-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4A-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12744 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

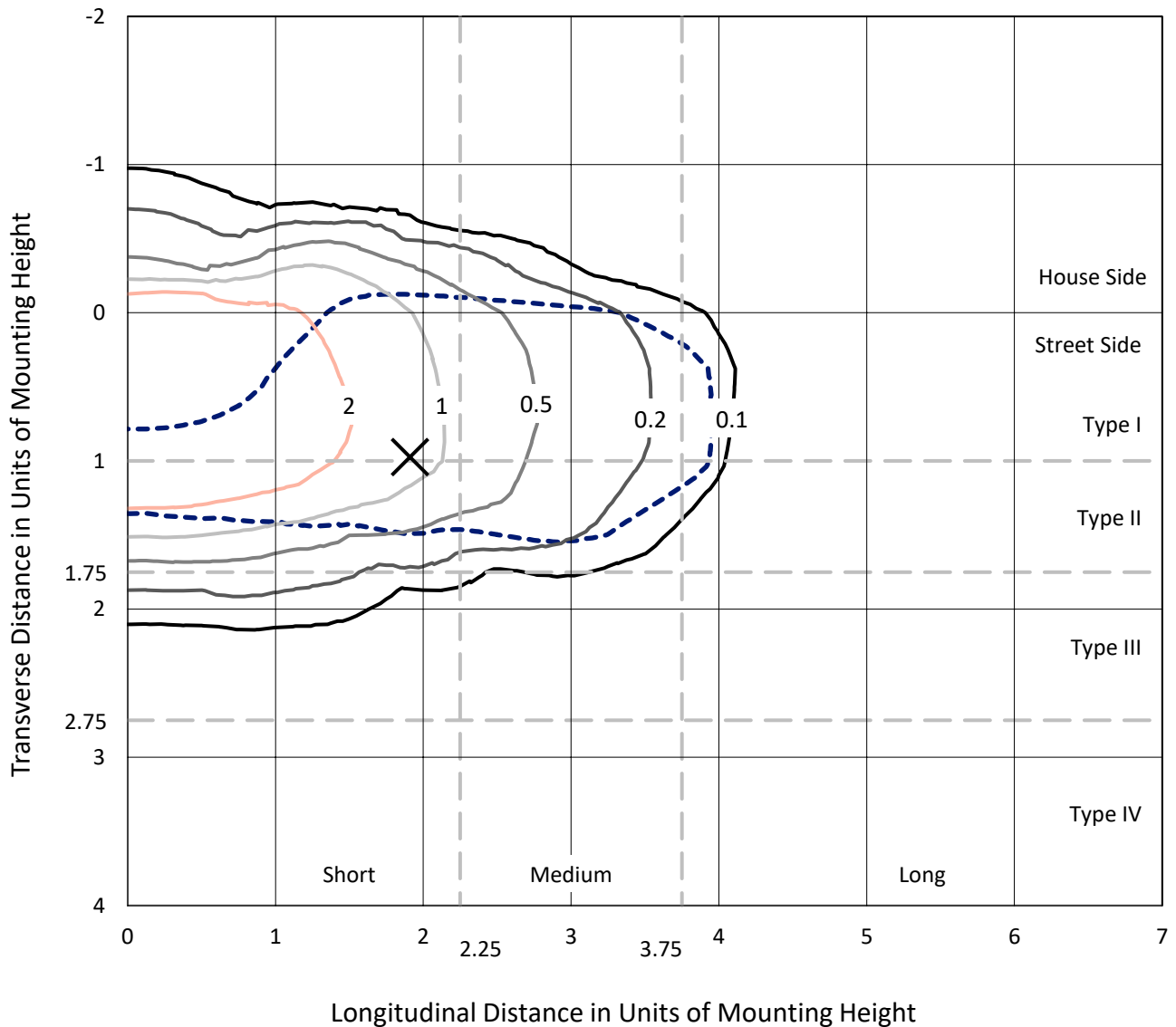
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

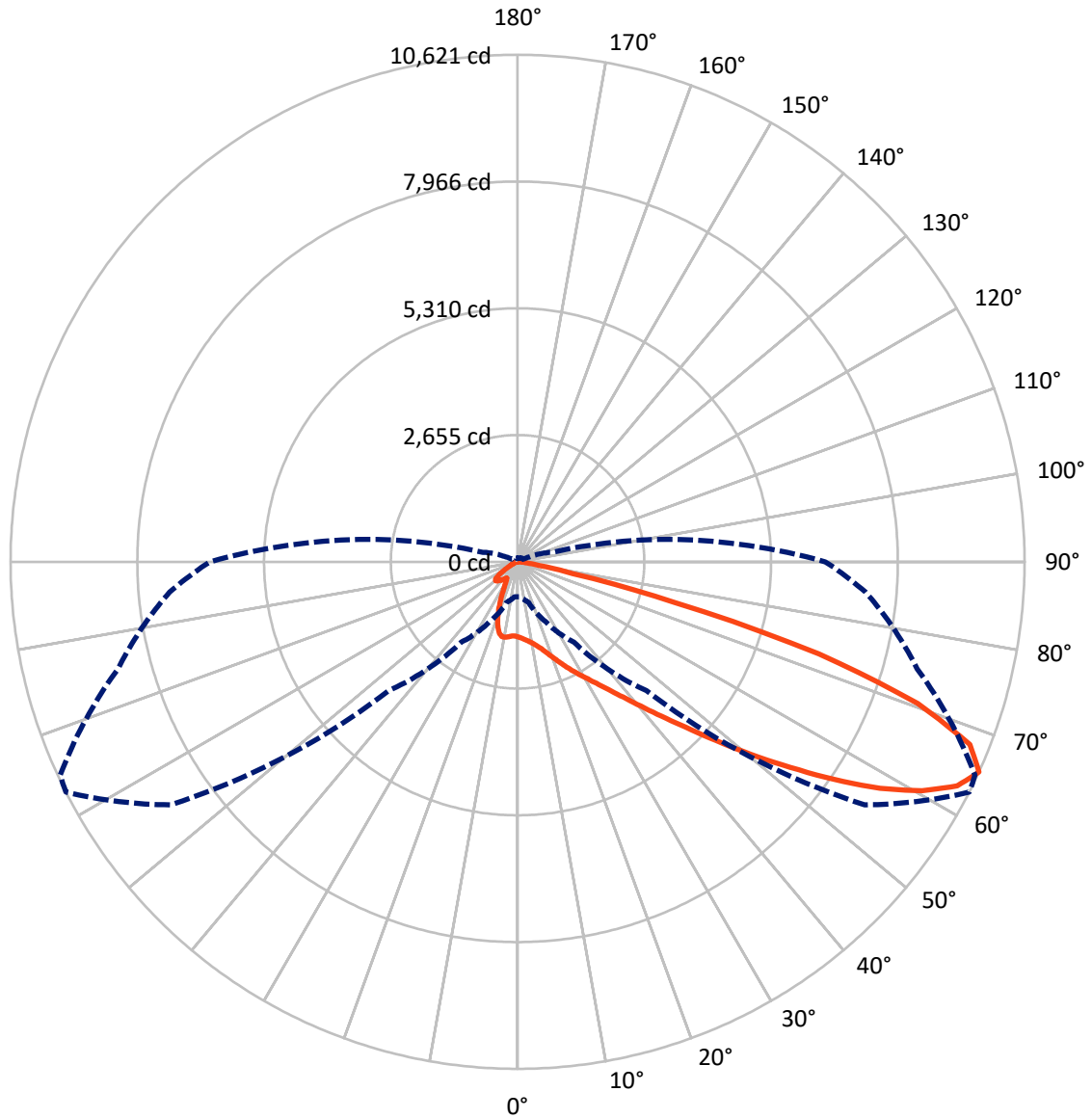
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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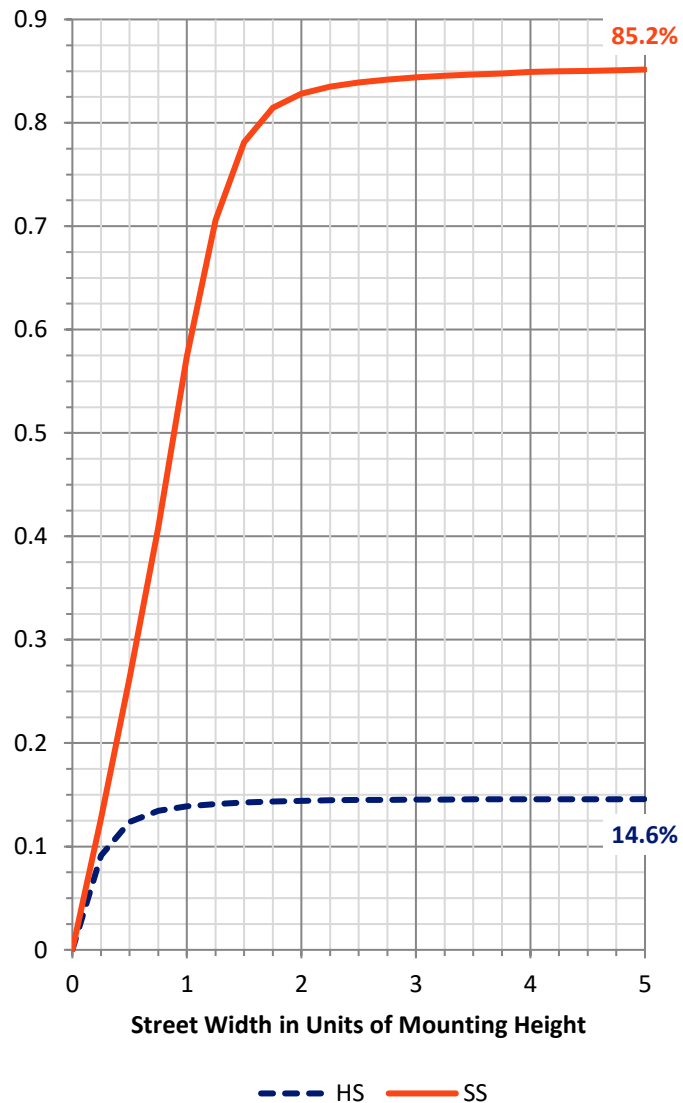
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1873.3 | 0.0 | 1873.3 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 10870.7 | 0.0 | 10870.7 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 12744.0 | 0.0 | 12744.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 148.2 | 1.2 |
| 10°-20° | 411.2 | 3.2 |
| 20°-30° | 716.0 | 5.6 |
| 30°-40° | 1290.5 | 10.1 |
| 40°-50° | 2559.4 | 20.1 |
| 50°-60° | 3486.3 | 27.4 |
| 60°-70° | 2782.7 | 21.8 |
| 70°-80° | 1259.3 | 9.9 |
| 80°-90° | 90.5 | 0.7 |
| 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° | 12744.0 | 100.0 |
| 0°-180° | 12744.0 | 100.0 |

Coefficient of Utilization

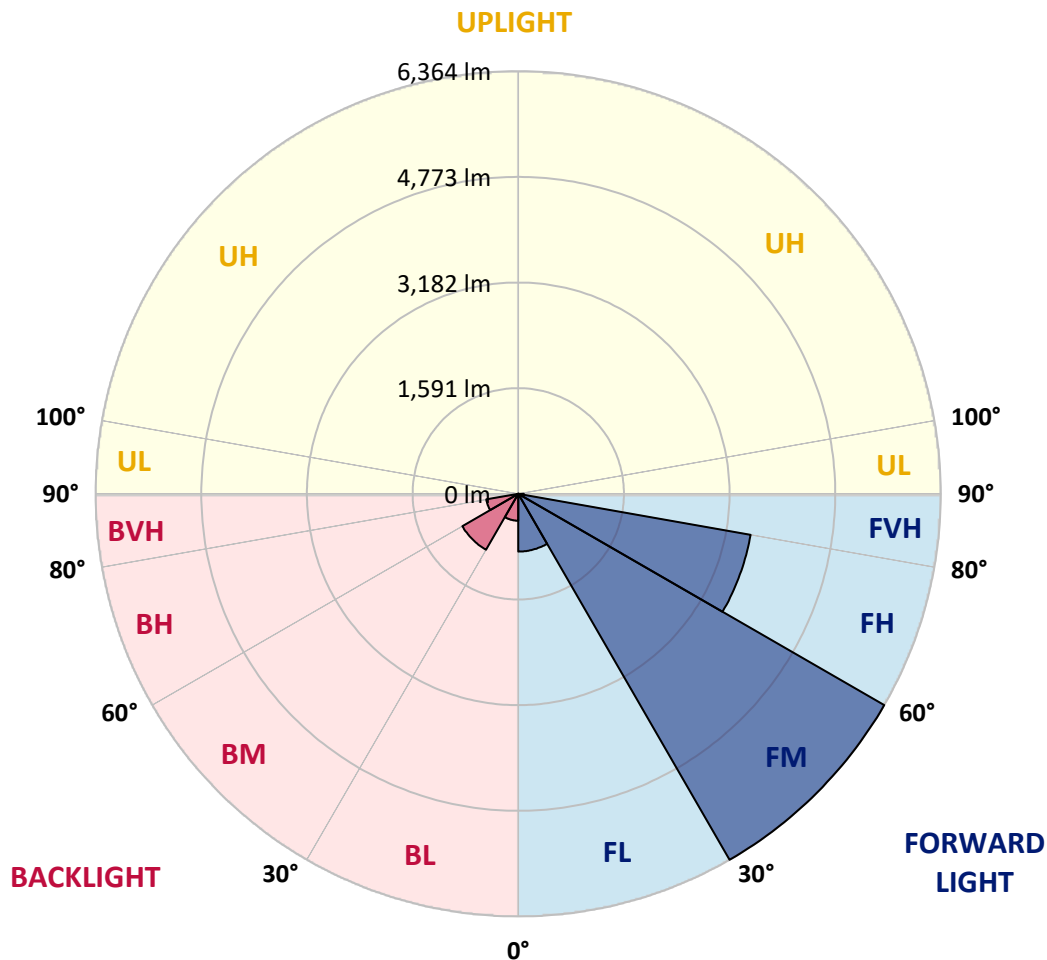


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 869.9 | 6.8 | | | |
| FM (30°-60°) | 6364.0 | 49.9 | | | |
| FH (60°-80°) | 3553.0 | 27.9 | | | G2/5000 |
| FVH (80°-90°) | 83.8 | 0.7 | | | G1/100 |
| BL (0°-30°) | 405.4 | 3.2 | B1/500 | | |
| BM (30°-60°) | 972.1 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 489.0 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 |
| 2.5° | 1609.7 | 1605.3 | 1611.4 | 1608.8 | 1607.0 | 1603.5 | 1601.8 | 1600.0 | 1596.5 | 1593.9 |
| 5° | 1614.1 | 1611.4 | 1617.6 | 1622.8 | 1628.1 | 1633.3 | 1636.0 | 1639.5 | 1636.0 | 1629.0 |
| 7.5° | 1577.2 | 1575.5 | 1588.6 | 1604.4 | 1628.1 | 1648.2 | 1670.2 | 1682.4 | 1683.3 | 1680.7 |
| 10° | 1574.6 | 1570.2 | 1583.4 | 1602.7 | 1633.3 | 1669.3 | 1707.9 | 1734.2 | 1737.7 | 1749.1 |
| 12.5° | 1615.8 | 1611.4 | 1629.8 | 1650.9 | 1682.4 | 1720.1 | 1767.5 | 1804.3 | 1809.6 | 1825.3 |
| 15° | 1685.1 | 1678.9 | 1700.0 | 1727.2 | 1767.5 | 1810.4 | 1860.4 | 1893.7 | 1898.1 | 1917.4 |
| 17.5° | 1765.7 | 1759.6 | 1784.1 | 1813.1 | 1856.9 | 1915.7 | 1973.5 | 2010.3 | 2015.6 | 2027.9 |
| 20° | 1869.2 | 1861.3 | 1880.6 | 1906.9 | 1953.4 | 2023.5 | 2092.8 | 2145.4 | 2144.5 | 2144.5 |
| 22.5° | 1989.3 | 1977.0 | 1993.7 | 2014.7 | 2058.6 | 2143.6 | 2235.7 | 2297.9 | 2297.9 | 2273.4 |
| 25° | 2118.2 | 2105.9 | 2124.3 | 2143.6 | 2182.2 | 2278.6 | 2386.5 | 2463.6 | 2467.1 | 2425.0 |
| 27.5° | 2279.5 | 2263.7 | 2277.7 | 2300.5 | 2323.3 | 2421.5 | 2549.5 | 2639.0 | 2640.7 | 2575.8 |
| 30° | 2589.9 | 2545.1 | 2501.3 | 2476.8 | 2487.3 | 2584.6 | 2721.4 | 2820.4 | 2829.2 | 2739.8 |
| 32.5° | 3158.0 | 3149.2 | 2994.9 | 2793.3 | 2688.0 | 2759.9 | 2913.4 | 3032.6 | 3037.9 | 2923.0 |
| 35° | 4040.8 | 4030.3 | 3782.2 | 3398.2 | 3055.4 | 2994.9 | 3146.6 | 3287.7 | 3284.2 | 3154.5 |
| 37.5° | 5094.7 | 5085.0 | 4758.0 | 4244.2 | 3689.3 | 3350.0 | 3447.3 | 3595.5 | 3617.4 | 3447.3 |
| 40° | 5995.1 | 5959.1 | 5752.2 | 5256.9 | 4530.9 | 3939.1 | 3875.1 | 3973.3 | 3996.1 | 3794.5 |
| 42.5° | 6677.2 | 6646.5 | 6541.3 | 6231.8 | 5549.7 | 4810.6 | 4379.3 | 4417.0 | 4442.4 | 4200.4 |
| 45° | 7030.5 | 7023.5 | 7065.6 | 7036.6 | 6587.7 | 5880.2 | 5099.9 | 4943.0 | 4952.6 | 4650.2 |
| 47.5° | 7080.5 | 7077.0 | 7269.0 | 7540.7 | 7480.2 | 7086.6 | 6024.9 | 5598.8 | 5564.6 | 5157.8 |
| 50° | 6785.9 | 6778.9 | 7147.1 | 7656.5 | 8076.4 | 8100.1 | 7075.2 | 6337.9 | 6262.5 | 5683.0 |
| 52.5° | 5845.1 | 5843.4 | 6448.3 | 7296.1 | 8286.0 | 8987.3 | 8113.2 | 7149.7 | 7023.5 | 6238.8 |
| 55° | 4497.6 | 4530.1 | 5223.5 | 6225.6 | 7903.7 | 9414.3 | 9045.2 | 8051.0 | 7857.2 | 6798.2 |
| 57.5° | 3186.0 | 3233.4 | 3919.0 | 4811.5 | 6718.4 | 9161.8 | 9675.6 | 8954.0 | 8745.4 | 7355.7 |
| 60° | 1711.4 | 1753.5 | 2439.9 | 3505.2 | 4998.2 | 8220.2 | 10007.9 | 9737.8 | 9540.6 | 7885.3 |
| 62.5° | 1019.6 | 1033.7 | 1317.7 | 2262.8 | 3380.7 | 6280.0 | 9866.7 | 10334.9 | 10172.7 | 8329.8 |
| 65° | 732.1 | 734.7 | 877.6 | 1381.7 | 2052.4 | 3815.5 | 8876.9 | 10620.7 | 10570.7 | 8664.7 |
| 67.5° | 616.3 | 614.6 | 674.2 | 917.9 | 1398.4 | 1911.3 | 6803.4 | 10216.5 | 10428.7 | 8876.9 |
| 70° | 528.7 | 531.3 | 601.4 | 672.5 | 1051.2 | 1081.9 | 3382.4 | 8895.3 | 9347.7 | 8933.0 |
| 72.5° | 393.7 | 402.4 | 467.3 | 612.8 | 793.4 | 744.3 | 1167.8 | 6595.6 | 7413.6 | 8416.6 |
| 75° | 277.9 | 282.3 | 328.8 | 515.5 | 591.8 | 541.8 | 596.2 | 3409.6 | 4458.2 | 6452.7 |
| 77.5° | 213.9 | 221.8 | 249.0 | 360.3 | 583.0 | 380.5 | 364.7 | 1180.1 | 1813.1 | 3897.9 |
| 80° | 115.7 | 129.8 | 179.7 | 260.4 | 409.4 | 269.2 | 180.6 | 469.9 | 614.6 | 1822.7 |
| 82.5° | 59.6 | 66.6 | 125.4 | 187.6 | 233.2 | 235.0 | 89.4 | 195.5 | 253.4 | 562.9 |
| 85° | 23.7 | 28.9 | 84.2 | 103.5 | 120.1 | 115.7 | 40.3 | 78.9 | 91.2 | 156.1 |
| 87.5° | 5.3 | 8.8 | 30.7 | 23.7 | 22.8 | 24.5 | 9.6 | 18.4 | 17.5 | 18.4 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1572.9 | 0° | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 |
| 1583.4 | 2.5° | 1582.5 | 1579.0 | 1569.3 | 1558.8 | 1546.5 | 1539.5 | 1535.2 | 1534.3 | 1528.1 | 1523.8 |
| 1618.4 | 5° | 1608.8 | 1605.3 | 1586.9 | 1565.0 | 1541.3 | 1522.9 | 1505.3 | 1489.6 | 1466.8 | 1462.4 |
| 1669.3 | 7.5° | 1661.4 | 1651.8 | 1621.9 | 1592.1 | 1547.4 | 1493.9 | 1429.1 | 1354.5 | 1287.9 | 1267.7 |
| 1736.8 | 10° | 1726.3 | 1713.1 | 1675.4 | 1622.8 | 1523.8 | 1378.2 | 1221.3 | 1075.7 | 960.0 | 927.6 |
| 1816.6 | 12.5° | 1799.9 | 1788.5 | 1738.6 | 1641.2 | 1424.7 | 1160.8 | 920.6 | 740.0 | 627.7 | 599.7 |
| 1901.6 | 15° | 1887.6 | 1870.9 | 1801.7 | 1613.2 | 1247.6 | 882.0 | 632.1 | 525.2 | 484.8 | 479.6 |
| 1998.9 | 17.5° | 1980.5 | 1953.4 | 1857.8 | 1512.4 | 1009.1 | 626.9 | 488.3 | 457.7 | 440.1 | 434.9 |
| 2097.1 | 20° | 2065.6 | 2030.5 | 1891.1 | 1359.8 | 754.0 | 488.3 | 437.5 | 417.3 | 401.5 | 395.4 |
| 2195.3 | 22.5° | 2150.6 | 2100.6 | 1891.1 | 1152.0 | 565.5 | 433.1 | 401.5 | 383.1 | 364.7 | 356.8 |
| 2300.5 | 25° | 2239.2 | 2172.5 | 1857.8 | 920.6 | 455.0 | 397.2 | 367.3 | 347.2 | 331.4 | 321.8 |
| 2400.5 | 27.5° | 2325.1 | 2233.0 | 1781.5 | 701.4 | 405.0 | 365.6 | 335.8 | 316.5 | 301.6 | 294.6 |
| 2509.2 | 30° | 2406.6 | 2292.6 | 1674.6 | 532.2 | 372.6 | 334.9 | 306.9 | 290.2 | 275.3 | 268.3 |
| 2650.3 | 32.5° | 2517.1 | 2368.0 | 1560.6 | 436.6 | 344.6 | 306.0 | 280.6 | 264.8 | 251.6 | 246.4 |
| 2833.6 | 35° | 2670.5 | 2479.4 | 1462.4 | 428.7 | 320.9 | 282.3 | 256.9 | 242.0 | 228.8 | 224.4 |
| 3070.3 | 37.5° | 2887.9 | 2659.1 | 1410.7 | 481.3 | 301.6 | 261.3 | 237.6 | 221.8 | 209.5 | 206.0 |
| 3371.0 | 40° | 3156.2 | 2902.8 | 1438.7 | 533.9 | 288.4 | 242.9 | 220.1 | 204.3 | 193.8 | 189.4 |
| 3716.5 | 42.5° | 3474.5 | 3203.6 | 1593.9 | 574.3 | 279.7 | 227.1 | 203.4 | 185.9 | 178.9 | 177.1 |
| 4108.3 | 45° | 3840.1 | 3534.1 | 1831.5 | 617.2 | 265.6 | 212.2 | 186.7 | 173.6 | 168.3 | 167.5 |
| 4534.4 | 47.5° | 4255.6 | 3897.1 | 2106.8 | 670.7 | 251.6 | 198.1 | 173.6 | 164.8 | 160.4 | 158.7 |
| 4978.9 | 50° | 4667.7 | 4262.7 | 2390.0 | 700.5 | 240.2 | 185.0 | 163.1 | 156.1 | 152.6 | 151.7 |
| 5448.9 | 52.5° | 5099.1 | 4638.8 | 2618.8 | 672.5 | 230.6 | 174.5 | 154.3 | 149.0 | 145.5 | 144.7 |
| 5882.0 | 55° | 5510.2 | 4943.0 | 2658.2 | 570.8 | 211.3 | 163.9 | 144.7 | 142.0 | 137.6 | 137.6 |
| 6321.2 | 57.5° | 5864.4 | 5095.5 | 2379.4 | 419.1 | 192.0 | 148.2 | 135.0 | 132.4 | 128.9 | 128.0 |
| 6717.5 | 60° | 6189.7 | 5051.7 | 1836.7 | 282.3 | 171.0 | 132.4 | 122.7 | 121.0 | 117.5 | 113.1 |
| 7062.0 | 62.5° | 6372.9 | 4858.8 | 1256.4 | 184.1 | 149.9 | 115.7 | 108.7 | 107.8 | 99.9 | 91.2 |
| 7317.2 | 65° | 6442.2 | 4462.5 | 783.8 | 134.1 | 125.4 | 99.1 | 93.8 | 92.1 | 80.7 | 71.0 |
| 7461.8 | 67.5° | 6381.7 | 3810.3 | 395.4 | 106.1 | 99.1 | 82.4 | 77.2 | 77.2 | 69.3 | 60.5 |
| 7453.1 | 70° | 6139.7 | 2856.4 | 166.6 | 85.0 | 76.3 | 63.1 | 63.1 | 66.6 | 58.7 | 49.1 |
| 7066.4 | 72.5° | 5614.6 | 1921.8 | 88.5 | 64.9 | 57.0 | 44.7 | 51.7 | 54.4 | 46.5 | 36.8 |
| 5783.8 | 75° | 4463.4 | 1172.2 | 61.4 | 48.2 | 35.9 | 31.6 | 39.5 | 41.2 | 31.6 | 24.5 |
| 3965.4 | 77.5° | 3052.8 | 673.3 | 41.2 | 30.7 | 22.8 | 18.4 | 27.2 | 25.4 | 16.7 | 11.4 |
| 1529.0 | 80° | 1340.5 | 280.6 | 23.7 | 14.0 | 8.8 | 7.0 | 9.6 | 7.0 | 5.3 | 3.5 |
| 209.5 | 82.5° | 156.9 | 65.8 | 8.8 | 5.3 | 3.5 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 64.0 | 85° | 32.4 | 7.9 | 4.4 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.4 | 87.5° | 6.1 | 1.8 | 0.9 | 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° |
|--------|
| 1572.9 |
| 1528.1 |
| 1460.6 |
| 1258.1 |
| 915.3 |
| 591.8 |
| 474.3 |
| 432.2 |
| 391.9 |
| 352.4 |
| 318.3 |
| 294.6 |
| 269.2 |
| 246.4 |
| 224.4 |
| 205.2 |
| 188.5 |
| 177.1 |
| 166.6 |
| 158.7 |
| 151.7 |
| 144.7 |
| 136.8 |
| 127.1 |
| 112.2 |
| 89.4 |
| 70.1 |
| 59.6 |
| 48.2 |
| 36.8 |
| 23.7 |
| 12.3 |
| 3.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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