

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: P940859

Luminaire Tested: **GLAN-SB4A-840-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4A-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16996 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - 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

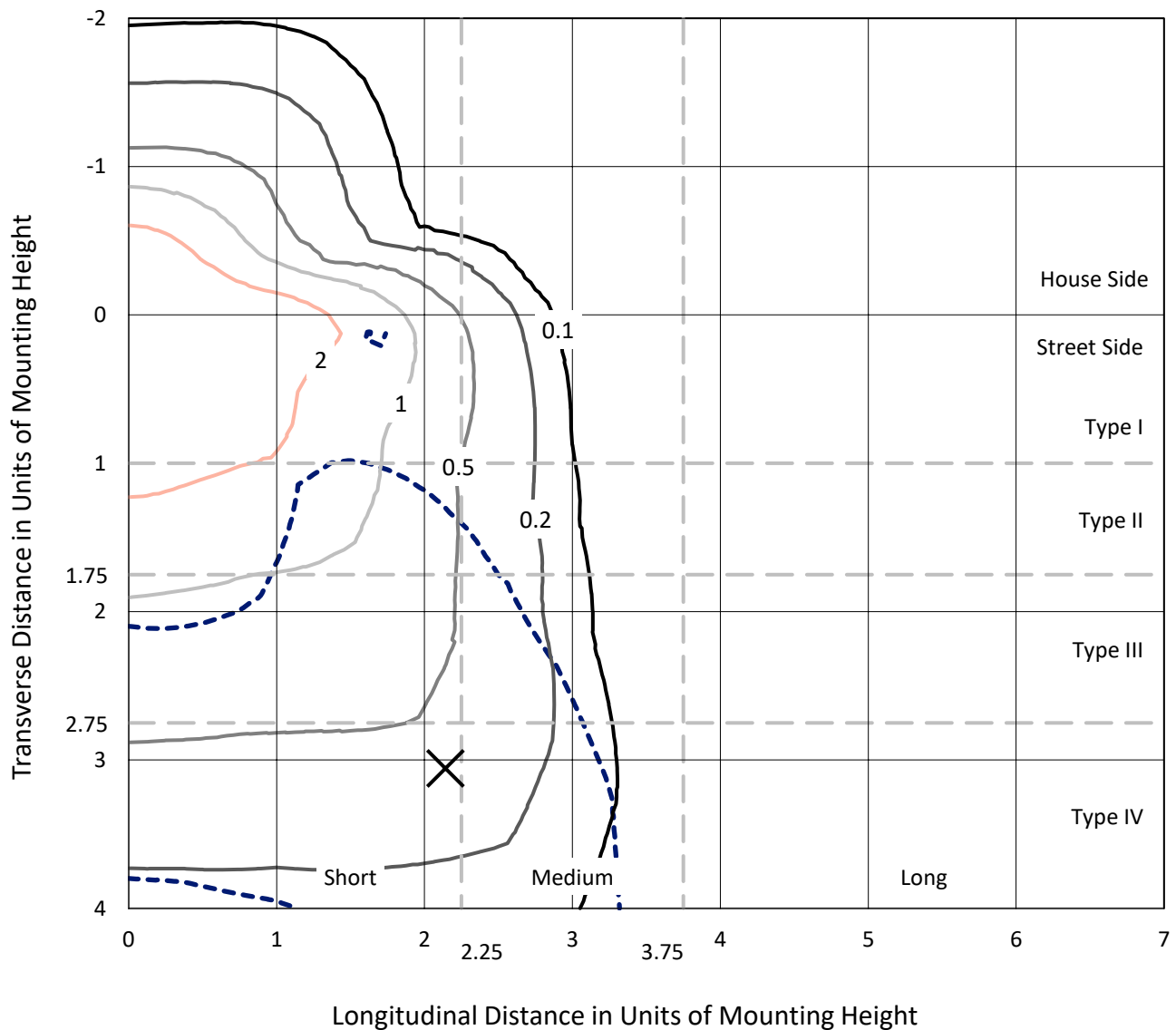


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## Iso-Footcandle Lines of Horizontal Illumination

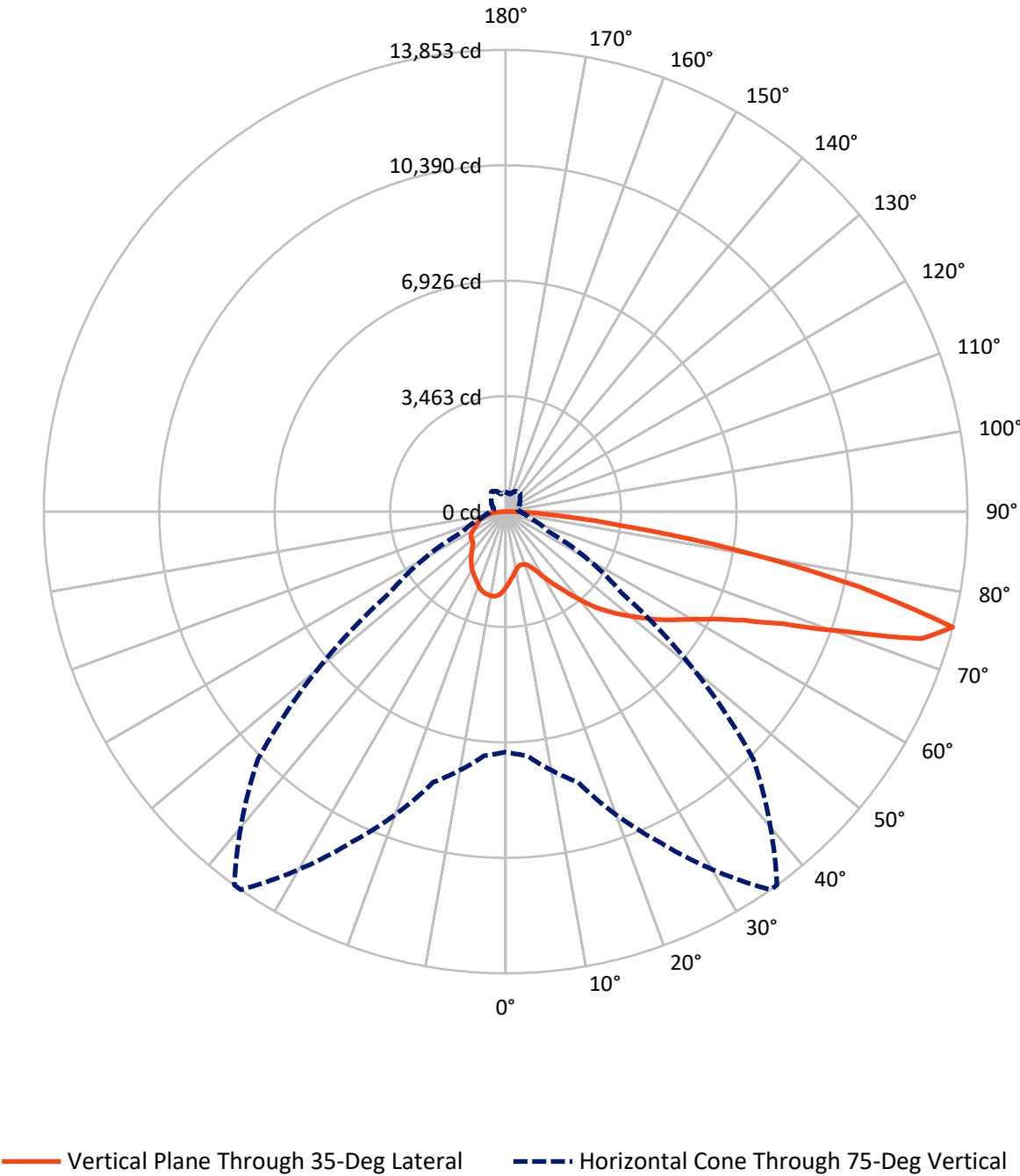
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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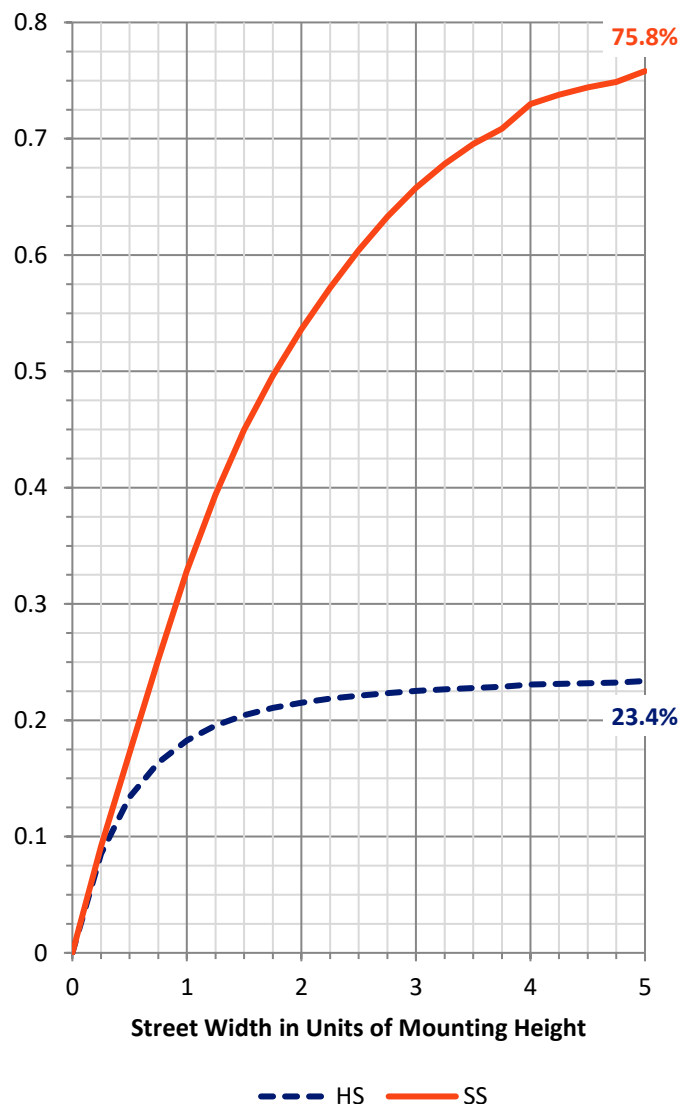
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4044.6   | 0.0    | 4044.6  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 12951.4  | 0.0    | 12951.4 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 16996.0  | 0.0    | 16996.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 214.4   | 1.3       |
| 10°-20°   | 618.5   | 3.6       |
| 20°-30°   | 1038.7  | 6.1       |
| 30°-40°   | 1614.2  | 9.5       |
| 40°-50°   | 2395.9  | 14.1      |
| 50°-60°   | 3307.7  | 19.5      |
| 60°-70°   | 4013.0  | 23.6      |
| 70°-80°   | 3316.5  | 19.5      |
| 80°-90°   | 477.0   | 2.8       |
| 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°    | 16996.0 | 100.0     |
| 0°-180°   | 16996.0 | 100.0     |

**Coefficient of Utilization**



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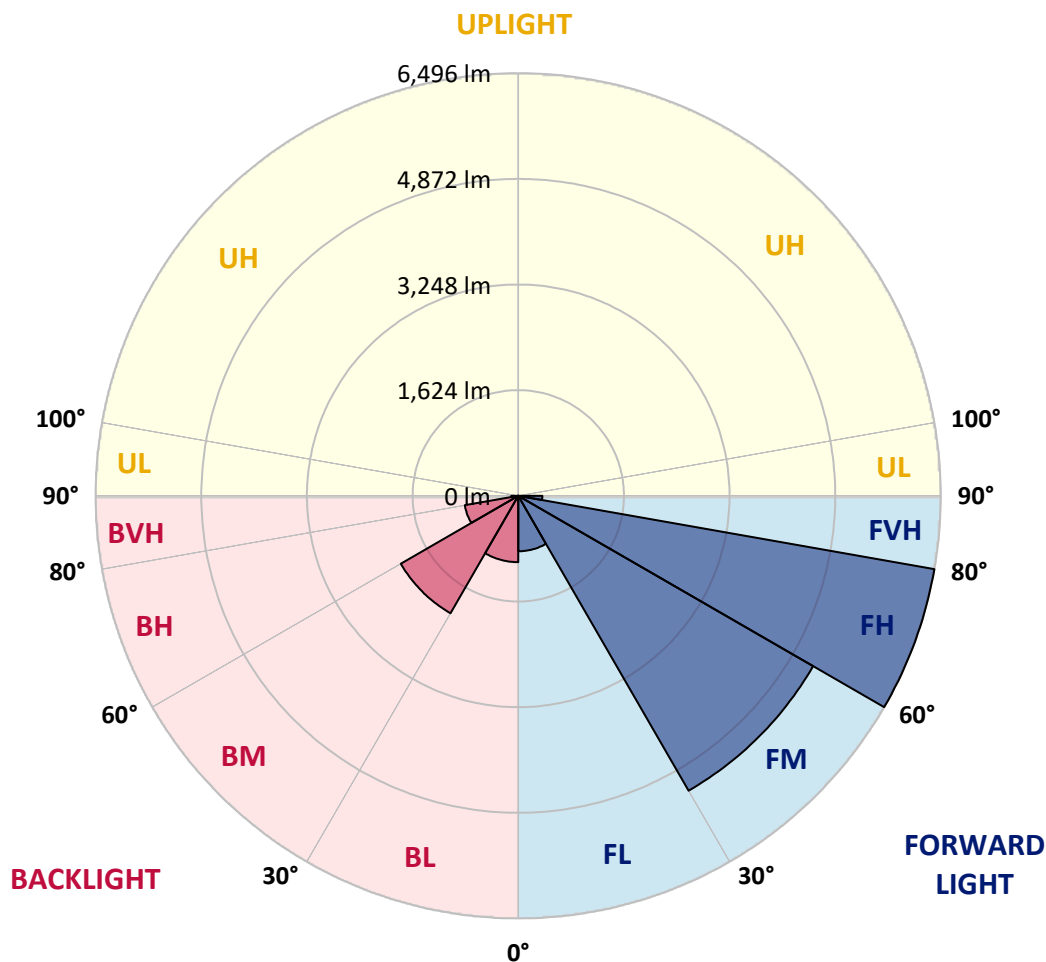
CATALOG NUMBER: GLAN-SB4A-840-U-T4FT

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 852.3  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 5233.8 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 6495.6 | 38.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 369.6  | 2.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1019.3 | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2084.0 | 12.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 833.9  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 107.4  | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 36°     | 45°     | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2264.8 | 2264.8 | 2264.8 | 2264.8  | 2264.8  | 2264.8  | 2264.8  | 2264.8 | 2264.8 | 2264.8 |
| 2.5°  | 2088.4 | 2101.3 | 2106.8 | 2104.0  | 2117.8  | 2116.0  | 2135.3  | 2159.2 | 2192.2 | 2224.4 |
| 5°    | 1927.6 | 1941.4 | 1953.4 | 1964.4  | 1991.0  | 1999.3  | 2029.6  | 2075.6 | 2136.2 | 2197.8 |
| 7.5°  | 1777.9 | 1789.8 | 1808.2 | 1828.4  | 1873.4  | 1881.7  | 1932.2  | 2003.9 | 2088.4 | 2178.5 |
| 10°   | 1655.7 | 1667.6 | 1686.9 | 1709.9  | 1765.9  | 1776.0  | 1840.3  | 1935.9 | 2046.2 | 2160.1 |
| 12.5° | 1603.3 | 1607.0 | 1618.0 | 1641.0  | 1689.7  | 1696.1  | 1766.8  | 1876.2 | 2004.8 | 2146.3 |
| 15°   | 1600.5 | 1607.9 | 1608.8 | 1620.8  | 1661.2  | 1663.9  | 1729.2  | 1837.6 | 1979.1 | 2143.6 |
| 17.5° | 1628.1 | 1633.6 | 1625.4 | 1632.7  | 1666.7  | 1671.3  | 1722.7  | 1819.2 | 1970.8 | 2155.5 |
| 20°   | 1701.6 | 1706.2 | 1681.4 | 1671.3  | 1696.1  | 1699.8  | 1750.3  | 1831.2 | 1979.1 | 2180.3 |
| 22.5° | 1857.8 | 1860.6 | 1799.9 | 1758.6  | 1760.4  | 1762.3  | 1806.4  | 1879.9 | 2011.2 | 2225.3 |
| 25°   | 2101.3 | 2099.4 | 2003.0 | 1923.0  | 1877.1  | 1867.0  | 1896.4  | 1958.9 | 2065.5 | 2285.0 |
| 27.5° | 2386.1 | 2372.3 | 2275.9 | 2156.4  | 2056.3  | 2041.6  | 2035.1  | 2061.8 | 2142.6 | 2364.1 |
| 30°   | 2707.7 | 2694.8 | 2591.0 | 2434.8  | 2296.1  | 2272.2  | 2211.5  | 2197.8 | 2257.5 | 2471.6 |
| 32.5° | 3060.5 | 3052.2 | 2928.2 | 2738.9  | 2553.3  | 2525.8  | 2423.8  | 2387.0 | 2433.9 | 2634.2 |
| 35°   | 3356.4 | 3349.0 | 3246.1 | 3051.3  | 2824.4  | 2790.4  | 2686.6  | 2645.2 | 2669.1 | 2842.8 |
| 37.5° | 3623.7 | 3620.1 | 3531.9 | 3378.4  | 3144.1  | 3102.8  | 2986.1  | 2972.3 | 2967.7 | 3117.5 |
| 40°   | 3871.8 | 3862.6 | 3770.7 | 3689.9  | 3516.2  | 3478.6  | 3375.7  | 3363.7 | 3328.8 | 3455.6 |
| 42.5° | 4146.5 | 4122.6 | 3989.4 | 3951.7  | 3904.9  | 3873.6  | 3812.1  | 3813.9 | 3736.7 | 3836.9 |
| 45°   | 4370.7 | 4356.9 | 4220.0 | 4198.0  | 4248.5  | 4235.6  | 4288.9  | 4302.7 | 4153.0 | 4236.6 |
| 47.5° | 4611.4 | 4598.6 | 4482.8 | 4467.2  | 4604.1  | 4607.8  | 4796.1  | 4800.7 | 4559.1 | 4651.9 |
| 50°   | 4908.2 | 4889.8 | 4775.0 | 4794.3  | 4947.7  | 4961.5  | 5306.0  | 5274.8 | 4933.0 | 5073.6 |
| 52.5° | 5103.9 | 5114.9 | 5090.1 | 5121.4  | 5330.9  | 5343.7  | 5807.7  | 5727.8 | 5303.3 | 5489.8 |
| 55°   | 5248.2 | 5270.2 | 5347.4 | 5419.1  | 5735.1  | 5748.0  | 6280.9  | 6158.7 | 5610.2 | 5875.7 |
| 57.5° | 5433.8 | 5402.5 | 5546.8 | 5686.4  | 6119.2  | 6153.2  | 6741.2  | 6574.0 | 5882.1 | 6208.3 |
| 60°   | 5700.2 | 5678.2 | 5790.3 | 5997.0  | 6549.2  | 6603.4  | 7228.2  | 6947.9 | 6081.5 | 6472.0 |
| 62.5° | 6240.5 | 6185.3 | 6202.8 | 6385.6  | 7091.3  | 7162.9  | 7777.6  | 7274.1 | 6180.7 | 6574.9 |
| 65°   | 7048.1 | 6953.4 | 6865.2 | 6992.0  | 7854.8  | 7925.5  | 8397.8  | 7530.5 | 6144.0 | 6375.5 |
| 67.5° | 8065.2 | 7971.5 | 7863.1 | 7982.5  | 8979.4  | 9035.4  | 9163.2  | 7674.7 | 5854.6 | 5607.4 |
| 70°   | 8904.1 | 8869.1 | 8998.7 | 9490.2  | 10775.6 | 10777.5 | 10144.4 | 7555.3 | 5061.6 | 3975.6 |
| 72.5° | 8792.9 | 8771.7 | 9454.4 | 10974.1 | 13039.6 | 12990.9 | 11073.3 | 6651.2 | 3409.7 | 1793.5 |
| 75°   | 7213.5 | 7350.4 | 8407.9 | 10947.5 | 13852.7 | 13846.3 | 10504.6 | 4228.3 | 1410.4 | 743.3  |
| 77.5° | 3868.1 | 4085.0 | 5458.6 | 8082.6  | 10814.2 | 10976.9 | 7385.3  | 1479.3 | 605.5  | 475.9  |
| 80°   | 1261.5 | 1450.8 | 2175.7 | 4115.3  | 7027.0  | 6996.6  | 3165.3  | 580.7  | 414.4  | 337.2  |
| 82.5° | 535.7  | 557.7  | 972.1  | 1943.3  | 3606.3  | 3550.2  | 1007.9  | 333.5  | 291.3  | 230.6  |
| 85°   | 209.5  | 234.3  | 429.1  | 898.6   | 1562.0  | 1528.0  | 363.8   | 165.4  | 186.5  | 150.7  |
| 87.5° | 68.9   | 83.6   | 153.4  | 307.8   | 486.0   | 468.6   | 89.1    | 57.0   | 80.9   | 68.9   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2264.8 | 0°    | 2264.8 | 2264.8 | 2264.8 | 2264.8 | 2264.8 | 2264.8 | 2264.8 | 2264.8 | 2264.8 | 2264.8 |
| 2271.3 | 2.5°  | 2284.1 | 2298.8 | 2316.3 | 2342.0 | 2364.1 | 2382.4 | 2401.7 | 2413.7 | 2418.3 | 2432.1 |
| 2274.9 | 5°    | 2300.7 | 2332.8 | 2376.0 | 2418.3 | 2459.6 | 2484.4 | 2506.5 | 2517.5 | 2527.6 | 2535.0 |
| 2285.0 | 7.5°  | 2328.2 | 2369.6 | 2437.6 | 2492.7 | 2527.6 | 2547.8 | 2562.5 | 2558.8 | 2562.5 | 2564.4 |
| 2296.1 | 10°   | 2352.1 | 2410.0 | 2490.9 | 2543.2 | 2569.9 | 2570.8 | 2567.1 | 2554.3 | 2547.8 | 2548.7 |
| 2312.6 | 12.5° | 2380.6 | 2444.9 | 2532.2 | 2576.3 | 2583.7 | 2563.4 | 2547.8 | 2525.8 | 2517.5 | 2513.8 |
| 2337.4 | 15°   | 2419.2 | 2492.7 | 2577.2 | 2593.8 | 2575.4 | 2549.7 | 2523.0 | 2487.2 | 2468.8 | 2454.1 |
| 2379.7 | 17.5° | 2466.0 | 2546.9 | 2612.1 | 2600.2 | 2560.7 | 2518.4 | 2475.2 | 2421.0 | 2383.4 | 2367.7 |
| 2437.6 | 20°   | 2531.3 | 2603.9 | 2638.8 | 2586.4 | 2526.7 | 2462.4 | 2388.9 | 2322.7 | 2287.8 | 2272.2 |
| 2511.1 | 22.5° | 2610.3 | 2680.1 | 2664.5 | 2562.5 | 2478.0 | 2375.1 | 2283.2 | 2234.5 | 2217.1 | 2206.0 |
| 2605.7 | 25°   | 2704.9 | 2764.7 | 2682.9 | 2527.6 | 2398.1 | 2259.3 | 2188.6 | 2173.0 | 2164.7 | 2156.4 |
| 2721.5 | 27.5° | 2828.1 | 2860.2 | 2696.7 | 2476.2 | 2273.1 | 2136.2 | 2110.5 | 2113.2 | 2110.5 | 2096.7 |
| 2882.3 | 30°   | 2990.7 | 2984.2 | 2709.5 | 2392.5 | 2129.8 | 2025.0 | 2026.9 | 2038.8 | 2040.6 | 2031.5 |
| 3106.4 | 32.5° | 3204.8 | 3139.5 | 2716.0 | 2284.1 | 1992.9 | 1927.6 | 1929.5 | 1942.3 | 1951.5 | 1935.9 |
| 3399.5 | 35°   | 3463.9 | 3320.5 | 2705.9 | 2148.1 | 1887.2 | 1834.8 | 1821.1 | 1824.7 | 1827.5 | 1812.8 |
| 3755.1 | 37.5° | 3766.1 | 3523.6 | 2660.8 | 1997.5 | 1799.9 | 1743.9 | 1714.5 | 1689.7 | 1675.0 | 1661.2 |
| 4157.6 | 40°   | 4097.8 | 3745.0 | 2578.1 | 1850.5 | 1702.5 | 1647.4 | 1603.3 | 1556.4 | 1506.8 | 1488.4 |
| 4583.9 | 42.5° | 4445.1 | 3972.9 | 2478.0 | 1709.9 | 1590.4 | 1545.4 | 1498.6 | 1430.6 | 1356.1 | 1318.5 |
| 5026.7 | 45°   | 4805.3 | 4206.2 | 2379.7 | 1571.1 | 1475.6 | 1456.3 | 1402.1 | 1320.3 | 1239.5 | 1191.7 |
| 5470.5 | 47.5° | 5158.1 | 4426.8 | 2235.4 | 1431.5 | 1368.1 | 1389.2 | 1347.0 | 1271.6 | 1181.6 | 1106.2 |
| 5910.6 | 50°   | 5495.3 | 4633.5 | 1999.3 | 1290.0 | 1280.8 | 1369.0 | 1328.6 | 1220.2 | 1117.3 | 1020.8 |
| 6342.4 | 52.5° | 5829.8 | 4800.7 | 1697.0 | 1161.4 | 1233.9 | 1363.5 | 1304.7 | 1185.2 | 1059.4 | 958.3  |
| 6748.6 | 55°   | 6113.7 | 4887.1 | 1405.8 | 1051.1 | 1166.0 | 1316.6 | 1276.2 | 1143.9 | 977.6  | 870.1  |
| 7027.0 | 57.5° | 6275.4 | 4817.2 | 1163.2 | 942.7  | 1072.2 | 1239.5 | 1227.5 | 1055.7 | 880.2  | 797.5  |
| 7081.2 | 60°   | 6205.5 | 4534.3 | 964.7  | 848.0  | 983.1  | 1155.8 | 1143.0 | 968.4  | 805.8  | 727.7  |
| 6790.8 | 62.5° | 5820.6 | 3994.9 | 807.6  | 765.4  | 902.3  | 1070.4 | 1058.5 | 901.3  | 748.8  | 673.5  |
| 6020.0 | 65°   | 5045.1 | 3249.8 | 685.4  | 696.4  | 820.5  | 967.5  | 984.9  | 845.3  | 703.8  | 630.3  |
| 4657.4 | 67.5° | 3847.9 | 2354.0 | 589.9  | 636.7  | 740.5  | 866.4  | 917.0  | 804.9  | 666.1  | 596.3  |
| 2694.8 | 70°   | 2193.2 | 1336.8 | 509.0  | 578.8  | 669.8  | 772.7  | 864.6  | 772.7  | 625.7  | 567.8  |
| 1009.8 | 72.5° | 831.5  | 613.8  | 440.1  | 521.0  | 601.8  | 693.7  | 806.7  | 722.2  | 578.8  | 535.7  |
| 521.9  | 75°   | 443.8  | 373.9  | 370.3  | 453.0  | 523.7  | 616.5  | 734.1  | 672.6  | 543.9  | 566.0  |
| 361.1  | 77.5° | 302.3  | 264.6  | 309.6  | 387.7  | 438.3  | 531.1  | 656.9  | 597.2  | 471.3  | 469.5  |
| 249.9  | 80°   | 209.5  | 187.4  | 251.8  | 312.4  | 339.0  | 446.5  | 573.3  | 512.7  | 384.1  | 358.3  |
| 154.4  | 82.5° | 125.9  | 122.2  | 188.4  | 233.4  | 239.8  | 344.5  | 475.0  | 430.0  | 314.2  | 273.8  |
| 91.9   | 85°   | 68.9   | 72.6   | 120.4  | 136.9  | 139.7  | 240.7  | 372.1  | 332.6  | 241.6  | 203.1  |
| 33.1   | 87.5° | 19.3   | 24.8   | 44.1   | 54.2   | 67.1   | 125.0  | 221.4  | 197.5  | 121.3  | 84.5   |
| 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°   |
|--------|
| 2264.8 |
| 2431.1 |
| 2536.8 |
| 2567.1 |
| 2550.6 |
| 2512.0 |
| 2458.7 |
| 2368.7 |
| 2270.3 |
| 2207.9 |
| 2156.4 |
| 2099.4 |
| 2036.1 |
| 1943.3 |
| 1822.9 |
| 1670.4 |
| 1496.7 |
| 1323.1 |
| 1188.0 |
| 1098.0 |
| 1012.5 |
| 947.3  |
| 860.9  |
| 786.5  |
| 716.7  |
| 661.5  |
| 618.3  |
| 585.3  |
| 560.5  |
| 528.3  |
| 584.4  |
| 432.8  |
| 342.7  |
| 275.6  |
| 204.9  |
| 84.5   |
| 0.0    |