Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1203851

Luminaire Tested: GWC-SB2D-827-U-T4W

Issue Date: 10/30/2025

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1203851 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/16/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GWC-SB2D-827-U-T4W |
| Description: | GALLEON WALL LUMINAIRE |
| | (2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 17657 lumens |
| Efficiency: | N/A |
| Efficacy: | 119.6 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G3 |

| | |
|---|---|
| Input Watts (W): | 147.6 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 1.234 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.999 |
| Total Harmonic Distortion (THDi): | 3.108 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

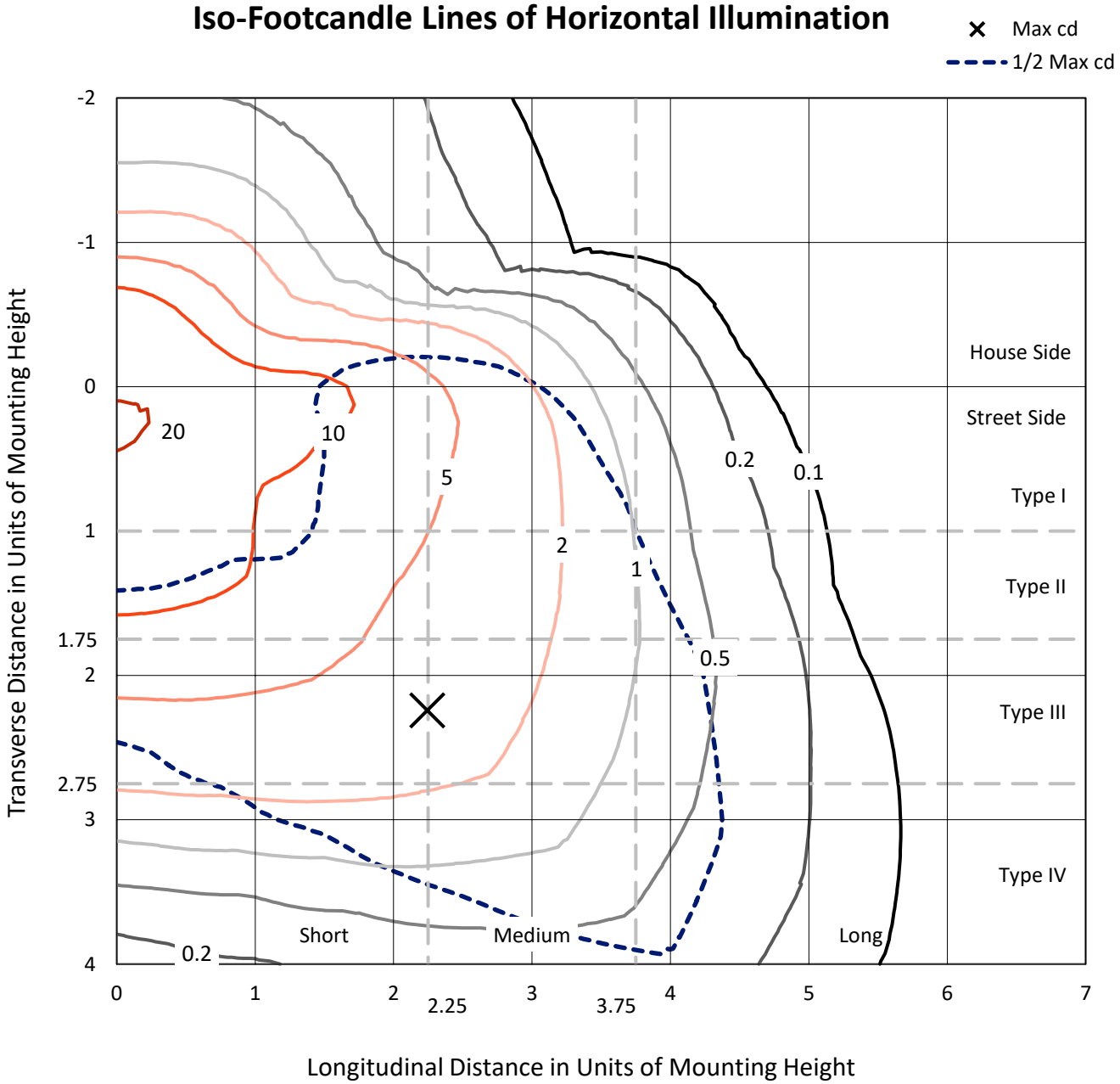


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## Iso-Footcandle Lines of Horizontal Illumination



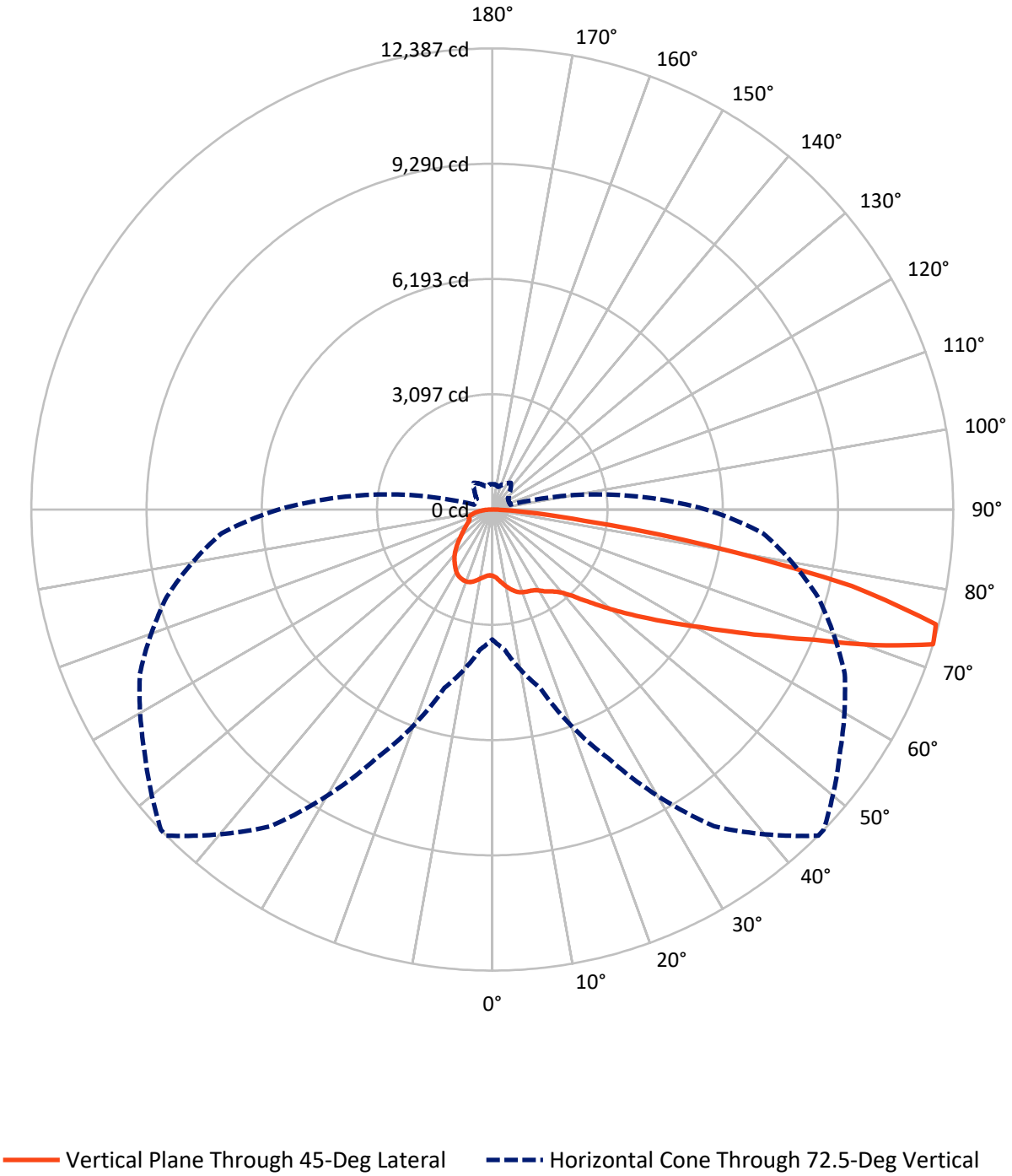

Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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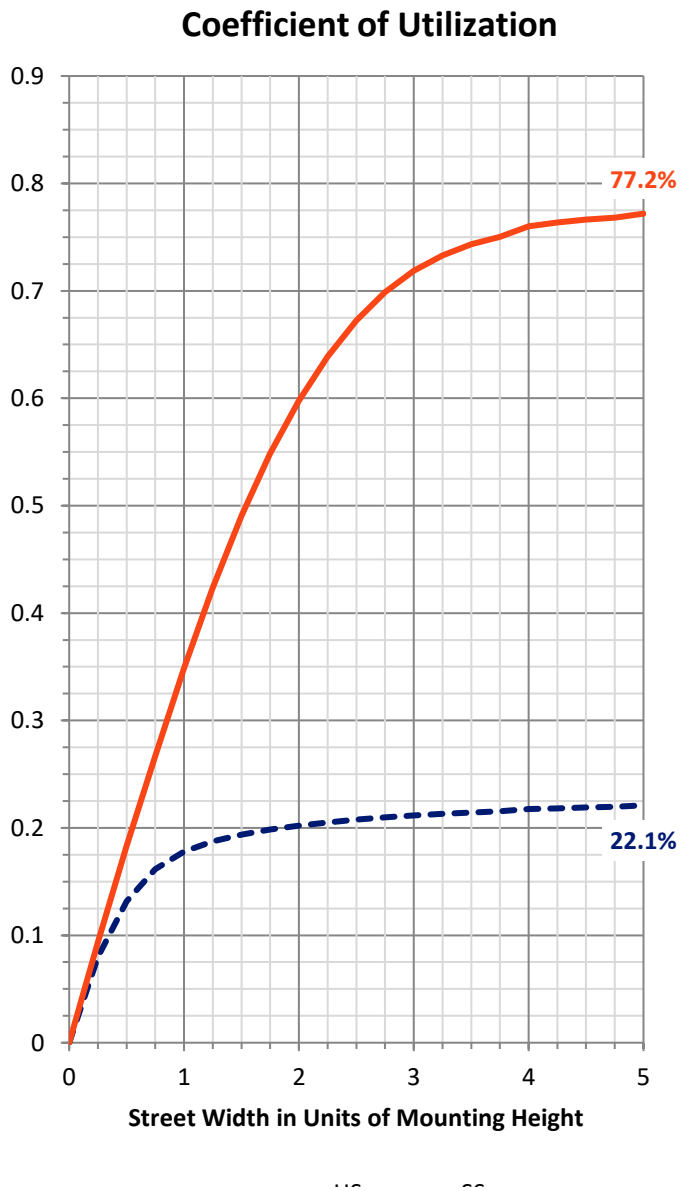
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3991.6 | 0.0 | 3991.6 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| **Street Side** | Lumens | 13665.4 | 0.0 | 13665.4 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| **Total** | Lumens | 17657.0 | 0.0 | 17657.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 181.3 | 1.0 |
| 10°-20° | 604.5 | 3.4 |
| 20°-30° | 1051.5 | 6.0 |
| 30°-40° | 1507.4 | 8.5 |
| 40°-50° | 2122.5 | 12.0 |
| 50°-60° | 3251.0 | 18.4 |
| 60°-70° | 4709.6 | 26.7 |
| 70°-80° | 3760.9 | 21.3 |
| 80°-90° | 468.4 | 2.7 |
| 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° | 17657.0 | 100.0 |
| 0°-180° | 17657.0 | 100.0 |



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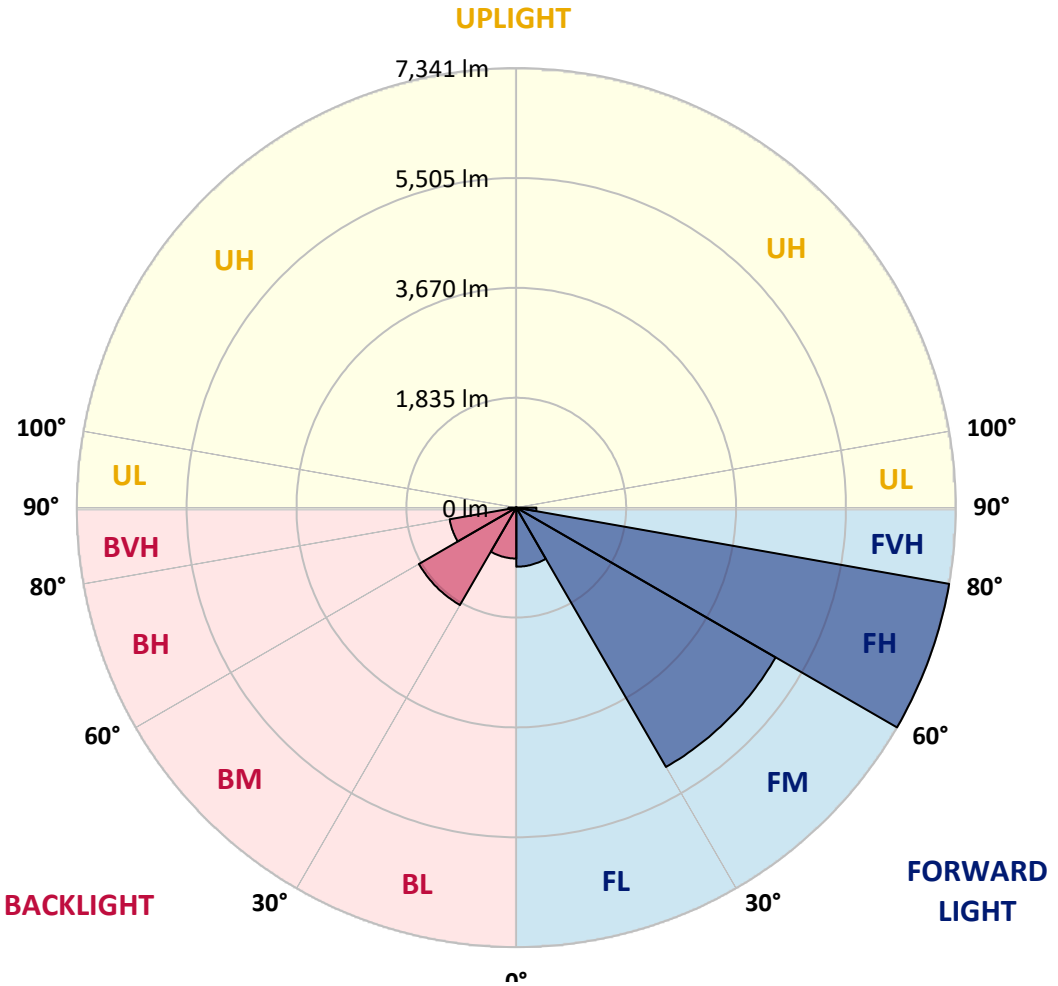
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 987.4 | 5.6 | | | |
| FM | (30°-60°) | 5001.4 | 28.3 | | | |
| FH | (60°-80°) | 7340.5 | 41.6 | | | G3/7500 |
| FVH | (80°-90°) | 336.0 | 1.9 | | | G3/500 |
| BL | (0°-30°) | 849.9 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 1879.5 | 10.6 | B2/2500 | | |
| BH | (60°-80°) | 1129.9 | 6.4 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 132.4 | 0.7 | | | 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° | 45° | 46° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 |
| 2.5° | 1851.0 | 1863.1 | 1851.9 | 1841.7 | 1837.1 | 1825.0 | 1824.0 | 1816.6 | 1811.9 | 1798.9 | 1795.2 |
| 5° | 1980.3 | 1996.1 | 1977.5 | 1957.0 | 1938.4 | 1908.7 | 1905.0 | 1883.6 | 1859.4 | 1831.5 | 1815.7 |
| 7.5° | 2126.3 | 2140.3 | 2118.9 | 2088.2 | 2055.6 | 2006.3 | 2005.4 | 1966.3 | 1928.2 | 1880.8 | 1853.8 |
| 10° | 2253.8 | 2272.4 | 2243.5 | 2201.7 | 2160.8 | 2104.9 | 2098.4 | 2053.8 | 2005.4 | 1944.0 | 1903.1 |
| 12.5° | 2366.3 | 2379.3 | 2351.4 | 2300.3 | 2252.8 | 2197.0 | 2188.7 | 2139.4 | 2085.4 | 2015.6 | 1963.6 |
| 15° | 2455.6 | 2472.4 | 2435.1 | 2380.3 | 2330.0 | 2275.2 | 2267.7 | 2223.1 | 2169.1 | 2095.6 | 2028.7 |
| 17.5° | 2514.2 | 2528.2 | 2490.0 | 2428.6 | 2380.3 | 2334.7 | 2329.1 | 2291.9 | 2244.5 | 2170.1 | 2098.4 |
| 20° | 2536.5 | 2551.4 | 2511.4 | 2449.1 | 2404.5 | 2369.1 | 2366.3 | 2339.3 | 2306.8 | 2238.9 | 2166.3 |
| 22.5° | 2558.9 | 2572.8 | 2520.7 | 2455.6 | 2416.5 | 2394.2 | 2393.3 | 2375.6 | 2362.6 | 2306.8 | 2236.1 |
| 25° | 2649.1 | 2652.8 | 2583.0 | 2489.1 | 2433.3 | 2413.8 | 2412.8 | 2411.9 | 2417.5 | 2373.8 | 2311.4 |
| 27.5° | 2727.2 | 2726.3 | 2666.8 | 2578.4 | 2491.9 | 2451.0 | 2450.0 | 2459.3 | 2477.0 | 2440.7 | 2389.6 |
| 30° | 2841.6 | 2831.4 | 2760.7 | 2668.6 | 2589.6 | 2526.3 | 2520.7 | 2512.3 | 2526.3 | 2497.5 | 2467.7 |
| 32.5° | 3084.4 | 3051.8 | 2937.4 | 2773.7 | 2670.5 | 2622.1 | 2614.7 | 2562.6 | 2568.2 | 2550.5 | 2535.6 |
| 35° | 3432.3 | 3389.5 | 3236.9 | 2972.8 | 2770.9 | 2702.1 | 2698.4 | 2632.3 | 2621.2 | 2605.4 | 2610.9 |
| 37.5° | 3846.2 | 3793.2 | 3615.5 | 3261.1 | 2943.9 | 2795.1 | 2789.5 | 2730.0 | 2684.4 | 2667.7 | 2699.3 |
| 40° | 4262.0 | 4195.0 | 4048.0 | 3612.7 | 3198.8 | 2950.5 | 2932.8 | 2842.6 | 2790.5 | 2762.6 | 2829.5 |
| 42.5° | 4665.7 | 4609.9 | 4484.3 | 4007.1 | 3513.2 | 3177.4 | 3138.3 | 2983.9 | 2944.9 | 2918.8 | 3039.7 |
| 45° | 5022.8 | 4972.6 | 4880.5 | 4428.5 | 3881.5 | 3486.2 | 3448.1 | 3196.0 | 3183.9 | 3183.9 | 3358.8 |
| 47.5° | 5313.0 | 5301.9 | 5204.2 | 4858.2 | 4315.9 | 3837.8 | 3771.8 | 3490.9 | 3523.4 | 3573.7 | 3811.8 |
| 50° | 5634.9 | 5604.2 | 5500.0 | 5281.4 | 4826.6 | 4240.6 | 4186.6 | 3852.7 | 3974.6 | 4112.2 | 4466.6 |
| 52.5° | 5930.7 | 5947.4 | 5831.1 | 5722.3 | 5403.3 | 4689.8 | 4595.0 | 4279.6 | 4542.9 | 4770.8 | 5234.0 |
| 55° | 6234.8 | 6235.8 | 6203.2 | 6188.3 | 6007.9 | 5186.5 | 5082.4 | 4793.1 | 5211.7 | 5494.4 | 6128.8 |
| 57.5° | 6520.4 | 6522.2 | 6570.6 | 6701.8 | 6709.2 | 5759.5 | 5641.4 | 5423.7 | 5954.9 | 6243.2 | 7051.5 |
| 60° | 6775.3 | 6788.3 | 6920.4 | 7227.3 | 7325.9 | 6416.2 | 6304.6 | 6168.8 | 6723.2 | 7013.4 | 8021.7 |
| 62.5° | 6860.8 | 6908.3 | 7202.2 | 7638.4 | 7935.2 | 7221.7 | 7112.0 | 7031.0 | 7530.5 | 7800.3 | 8832.8 |
| 65° | 6715.7 | 6824.6 | 7392.9 | 7977.9 | 8562.1 | 8178.9 | 8070.0 | 7981.7 | 8369.5 | 8623.5 | 9498.7 |
| 67.5° | 6359.5 | 6499.9 | 7381.7 | 8334.2 | 9322.9 | 9330.4 | 9229.0 | 9021.6 | 9269.0 | 9366.7 | 9715.5 |
| 70° | 5420.9 | 5631.2 | 6731.5 | 8467.2 | 10196.4 | 10905.1 | 10807.5 | 10273.6 | 10166.6 | 9694.1 | 9105.3 |
| 72.5° | 3492.7 | 3775.5 | 4956.8 | 7372.4 | 10390.8 | 12386.9 | 12381.3 | 11403.7 | 10450.3 | 9057.9 | 7302.7 |
| 75° | 1274.3 | 1447.3 | 2303.1 | 4627.5 | 8722.1 | 12311.5 | 12347.8 | 11210.2 | 9539.7 | 6996.6 | 4549.4 |
| 77.5° | 464.1 | 507.9 | 751.6 | 1778.5 | 5364.2 | 9878.3 | 9953.6 | 8962.0 | 6790.1 | 3511.3 | 1802.6 |
| 80° | 243.7 | 267.9 | 385.1 | 690.2 | 2298.4 | 5866.5 | 5984.6 | 5326.1 | 3191.4 | 1057.6 | 540.4 |
| 82.5° | 134.9 | 146.0 | 215.8 | 374.9 | 1035.3 | 2508.6 | 2579.3 | 2104.0 | 1122.7 | 448.3 | 223.2 |
| 85° | 72.6 | 77.2 | 101.4 | 204.6 | 506.0 | 869.7 | 889.2 | 628.8 | 447.4 | 263.2 | 107.9 |
| 87.5° | 21.4 | 26.0 | 33.5 | 65.1 | 198.1 | 195.3 | 200.0 | 124.6 | 176.7 | 133.0 | 35.3 |
| 90° | 0.0 | 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):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 | 1781.2 |
| 2.5° | 1789.6 | 1786.8 | 1776.6 | 1771.9 | 1766.4 | 1765.4 | 1770.1 | 1771.0 | 1771.9 | 1772.9 | 1776.6 |
| 5° | 1806.4 | 1797.1 | 1787.8 | 1782.2 | 1784.0 | 1785.0 | 1794.3 | 1800.8 | 1805.4 | 1809.2 | 1811.0 |
| 7.5° | 1838.9 | 1831.5 | 1815.7 | 1814.7 | 1817.5 | 1825.9 | 1838.0 | 1852.9 | 1861.2 | 1867.8 | 1869.6 |
| 10° | 1887.3 | 1873.3 | 1854.7 | 1857.5 | 1863.1 | 1875.2 | 1900.3 | 1912.4 | 1926.4 | 1938.4 | 1935.7 |
| 12.5° | 1936.6 | 1924.5 | 1903.1 | 1905.0 | 1914.3 | 1935.7 | 1959.8 | 1974.7 | 1984.0 | 1993.3 | 1997.0 |
| 15° | 2000.8 | 1979.4 | 1956.1 | 1956.1 | 1972.9 | 1996.1 | 2007.3 | 2019.4 | 2024.9 | 2035.2 | 2038.9 |
| 17.5° | 2066.8 | 2038.9 | 2008.2 | 2006.3 | 2026.8 | 2038.0 | 2044.5 | 2046.3 | 2048.2 | 2059.4 | 2063.1 |
| 20° | 2132.8 | 2102.2 | 2058.4 | 2054.7 | 2059.4 | 2057.5 | 2056.6 | 2054.7 | 2057.5 | 2071.5 | 2077.0 |
| 22.5° | 2198.0 | 2162.6 | 2102.2 | 2085.4 | 2072.4 | 2054.7 | 2053.8 | 2052.9 | 2054.7 | 2068.7 | 2078.0 |
| 25° | 2274.2 | 2231.4 | 2150.5 | 2100.3 | 2056.6 | 2032.4 | 2035.2 | 2036.1 | 2038.0 | 2049.1 | 2064.0 |
| 27.5° | 2357.0 | 2309.6 | 2195.2 | 2095.6 | 2016.6 | 1999.8 | 1995.2 | 1998.0 | 2004.5 | 2022.2 | 2039.8 |
| 30° | 2439.8 | 2384.0 | 2236.1 | 2077.0 | 1966.3 | 1943.1 | 1928.2 | 1934.7 | 1955.2 | 1972.9 | 1992.4 |
| 32.5° | 2515.1 | 2459.3 | 2268.6 | 2036.1 | 1902.2 | 1865.9 | 1846.4 | 1854.7 | 1875.2 | 1881.7 | 1905.0 |
| 35° | 2603.5 | 2540.3 | 2282.6 | 1971.0 | 1832.4 | 1776.6 | 1750.6 | 1738.5 | 1748.7 | 1742.2 | 1762.6 |
| 37.5° | 2702.1 | 2636.1 | 2280.7 | 1885.4 | 1750.6 | 1686.4 | 1650.1 | 1604.5 | 1583.1 | 1560.8 | 1574.8 |
| 40° | 2848.1 | 2753.3 | 2258.4 | 1782.2 | 1649.2 | 1590.6 | 1525.5 | 1448.3 | 1399.9 | 1356.2 | 1359.0 |
| 42.5° | 3047.2 | 2916.0 | 2217.5 | 1668.7 | 1534.8 | 1479.9 | 1391.5 | 1301.3 | 1225.0 | 1152.5 | 1146.0 |
| 45° | 3343.9 | 3129.0 | 2166.3 | 1547.8 | 1411.0 | 1357.1 | 1261.3 | 1159.9 | 1073.4 | 980.4 | 969.2 |
| 47.5° | 3771.8 | 3415.5 | 2118.0 | 1410.1 | 1280.8 | 1231.5 | 1145.0 | 1051.1 | 948.8 | 858.5 | 848.3 |
| 50° | 4359.6 | 3826.7 | 2073.3 | 1276.2 | 1152.5 | 1115.3 | 1046.4 | 950.6 | 847.4 | 774.8 | 770.2 |
| 52.5° | 5107.5 | 4385.7 | 2054.7 | 1146.9 | 1032.5 | 1018.5 | 963.6 | 874.3 | 776.7 | 715.3 | 710.6 |
| 55° | 5966.0 | 5054.5 | 2054.7 | 1023.2 | 927.4 | 932.0 | 893.9 | 811.1 | 726.5 | 671.6 | 666.0 |
| 57.5° | 6842.2 | 5731.6 | 2017.5 | 908.8 | 838.1 | 857.6 | 833.4 | 760.9 | 684.6 | 627.9 | 618.6 |
| 60° | 7649.6 | 6299.0 | 1866.8 | 804.6 | 759.0 | 789.7 | 773.9 | 711.6 | 618.6 | 571.1 | 563.7 |
| 62.5° | 8270.0 | 6619.0 | 1576.6 | 721.8 | 693.9 | 729.2 | 720.9 | 646.5 | 606.5 | 586.9 | 580.4 |
| 65° | 8580.7 | 6566.9 | 1205.5 | 648.3 | 639.0 | 693.9 | 676.2 | 673.4 | 641.8 | 619.5 | 612.0 |
| 67.5° | 8390.0 | 6118.6 | 874.3 | 594.4 | 607.4 | 661.3 | 729.2 | 740.4 | 681.8 | 638.1 | 630.6 |
| 70° | 7553.8 | 5307.5 | 651.1 | 543.2 | 567.4 | 662.3 | 831.6 | 774.8 | 668.8 | 617.6 | 609.3 |
| 72.5° | *5746.5* | *3957.8* | *505.1* | *489.3* | *515.3* | *666.9* | *877.1* | *759.0* | *631.6* | *682.7* | *677.2* |
| 75° | 3286.2 | 2172.8 | 405.5 | 423.2 | 450.2 | 623.2 | 853.9 | 718.1 | 602.7 | 626.9 | 626.9 |
| 77.5° | 1252.9 | 835.3 | 334.9 | 358.1 | 361.8 | 544.1 | 816.7 | 715.3 | 573.9 | 560.0 | 510.7 |
| 80° | 434.4 | 326.5 | 277.2 | 284.6 | 280.0 | 483.7 | 783.2 | 622.3 | 469.7 | 420.4 | 406.5 |
| 82.5° | 177.7 | 162.8 | 219.5 | 210.2 | 199.1 | 375.8 | 632.5 | 508.8 | 384.2 | 339.5 | 335.8 |
| 85° | 77.2 | 103.2 | 145.1 | 127.4 | 115.3 | 260.4 | 506.9 | 430.7 | 324.6 | 280.0 | 279.0 |
| 87.5° | 15.8 | 39.1 | 61.4 | 57.7 | 59.5 | 173.9 | 360.0 | 306.0 | 229.7 | 172.1 | 134.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


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(END OF REPORT)