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

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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: P951543

Luminaire Tested: **GALN-SB5C-930-U-T2R**

Issue Date: 1/21/2025

Report Generated By 670246001

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**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P951543 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/21/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SB5C-930-U-T2R |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (5) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 26805 lumens |
| Efficiency: | N/A |
| Efficacy: | 107.4 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Medium |
| BUG Rating: | B3 - U0 - G3 |

| | |
|---|---|
| Input Watts (W): | 249.5 |
| 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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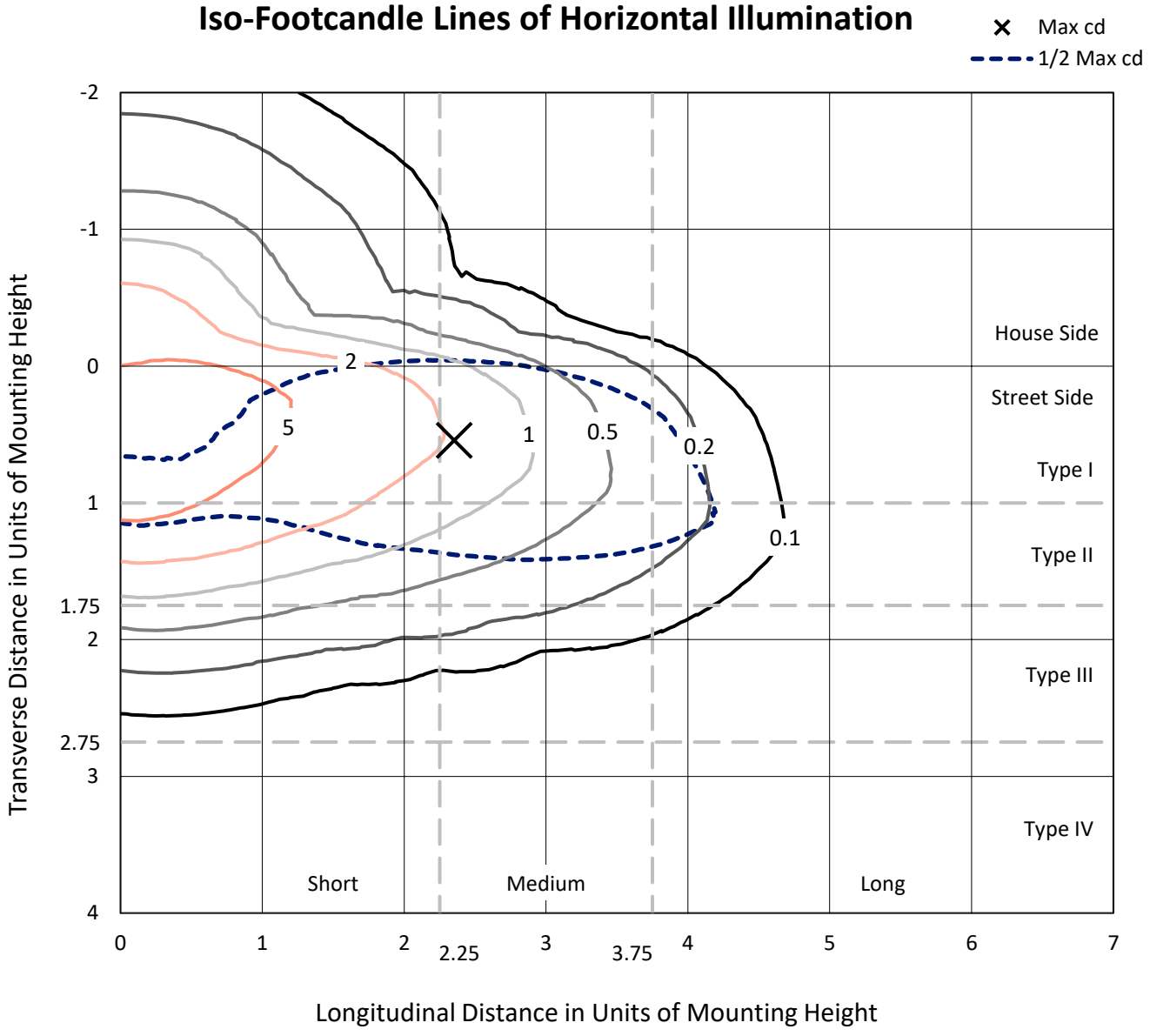
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Medium - N/A

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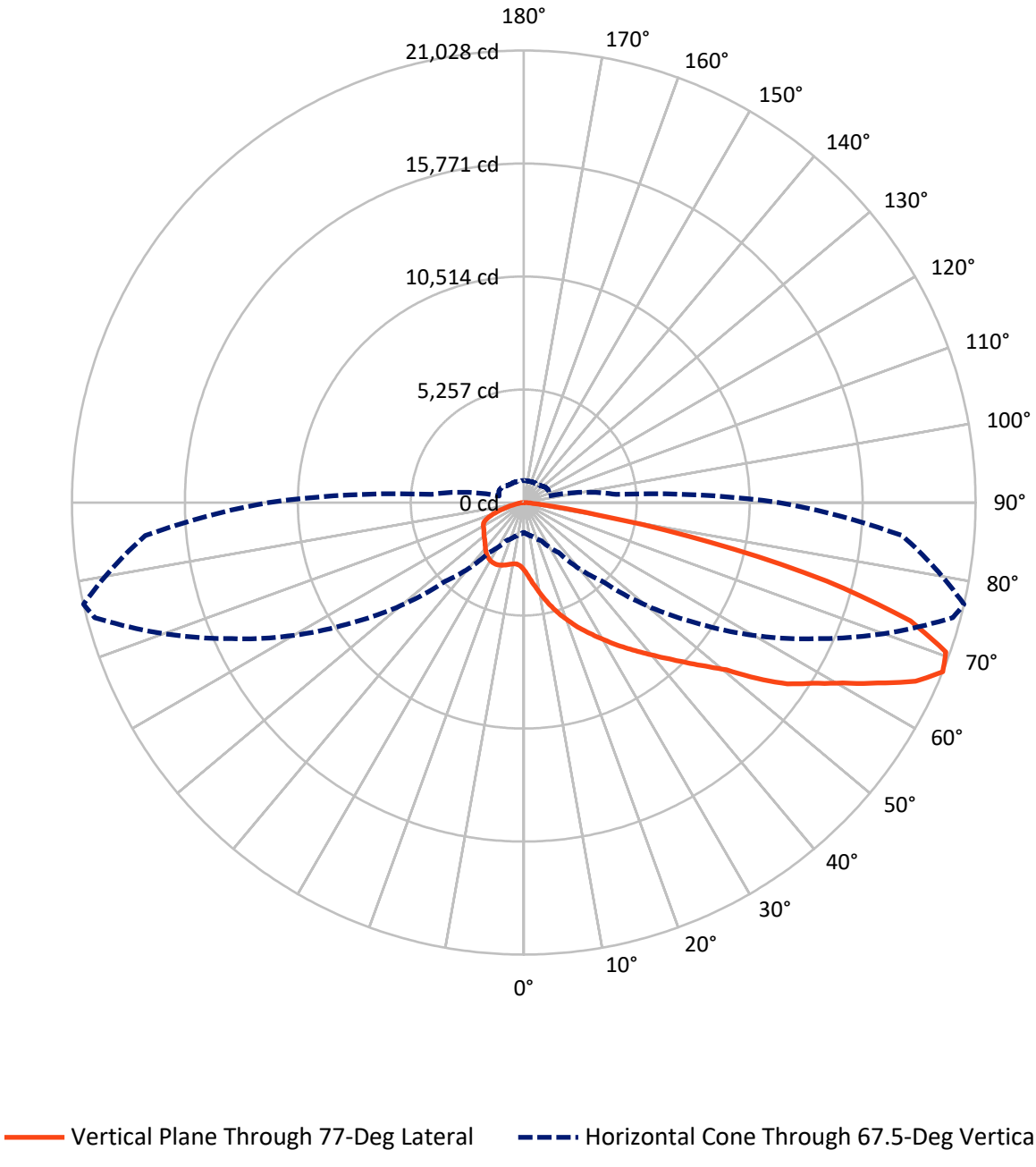
## Luminous Intensity Polar Plot



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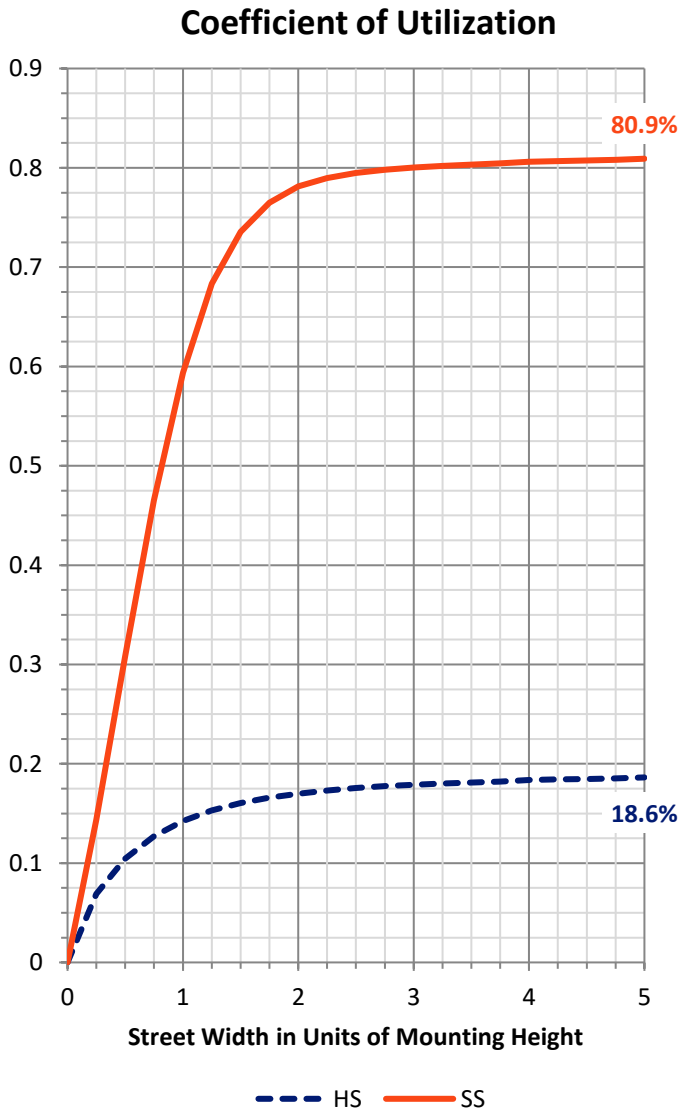
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 5070.4 | 0.0 | 5070.4 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| **Street Side** | Lumens | 21734.6 | 0.0 | 21734.6 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| **Total** | Lumens | 26805.0 | 0.0 | 26805.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 337.1 | 1.3 |
| 10°-20° | 1211.1 | 4.5 |
| 20°-30° | 2286.7 | 8.5 |
| 30°-40° | 3683.8 | 13.7 |
| 40°-50° | 5038.7 | 18.8 |
| 50°-60° | 5683.7 | 21.2 |
| 60°-70° | 5305.0 | 19.8 |
| 70°-80° | 2908.1 | 10.8 |
| 80°-90° | 350.8 | 1.3 |
| 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° | 26805.0 | 100.0 |
| 0°-180° | 26805.0 | 100.0 |



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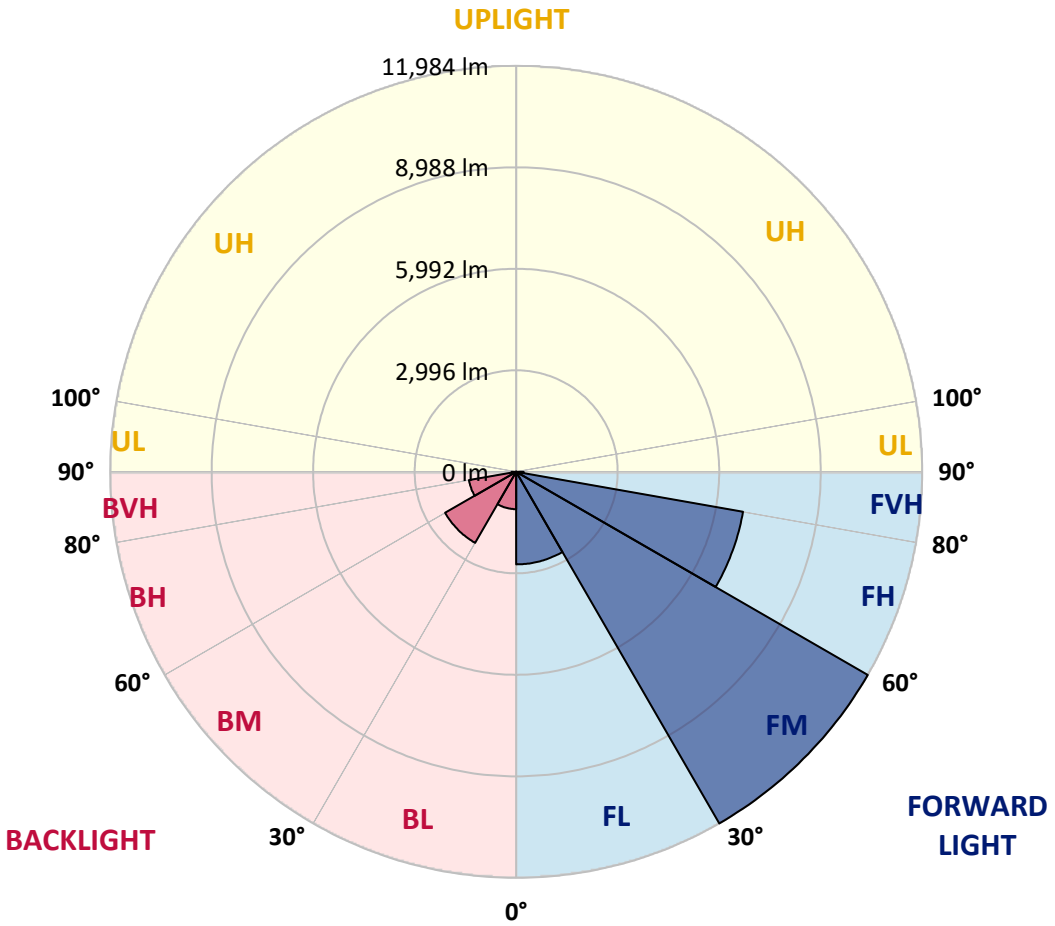
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2732.4 | 10.2 | | | |
| FM | (30°-60°) | 11984.2 | 44.7 | | | |
| FH | (60°-80°) | 6798.5 | 25.4 | | | G3/7500 |
| FVH | (80°-90°) | 219.4 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 1102.4 | 4.1 | B3/2500 | | |
| BM | (30°-60°) | 2422.0 | 9.0 | B2/2500 | | |
| BH | (60°-80°) | 1414.6 | 5.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 131.4 | 0.5 | | | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 |
| 2.5° | 3937.9 | 3965.6 | 3931.0 | 3931.0 | 3814.8 | 3753.9 | 3637.6 | 3549.1 | 3390.0 | 3362.3 |
| 5° | 4654.6 | 4689.2 | 4640.8 | 4620.0 | 4483.1 | 4357.1 | 4162.0 | 3969.7 | 3686.1 | 3657.0 |
| 7.5° | 5209.5 | 5253.8 | 5210.9 | 5188.7 | 5067.0 | 4925.8 | 4697.5 | 4429.1 | 4029.2 | 3972.5 |
| 10° | 5661.9 | 5668.9 | 5655.0 | 5663.3 | 5567.8 | 5451.6 | 5217.8 | 4905.1 | 4405.6 | 4328.1 |
| 12.5° | 5917.9 | 5949.7 | 5977.4 | 6027.2 | 6010.6 | 5938.7 | 5728.4 | 5354.8 | 4804.1 | 4704.4 |
| 15° | 6038.3 | 6093.6 | 6155.9 | 6270.7 | 6363.5 | 6381.4 | 6220.9 | 5837.7 | 5209.5 | 5089.1 |
| 17.5° | 6081.2 | 6133.8 | 6232.0 | 6398.0 | 6597.3 | 6731.5 | 6659.6 | 6306.7 | 5610.7 | 5472.4 |
| 20° | 6298.4 | 6313.6 | 6373.1 | 6530.9 | 6746.7 | 6969.5 | 7023.5 | 6757.8 | 6007.9 | 5851.5 |
| 22.5° | 6763.3 | 6732.9 | 6749.5 | 6821.4 | 6976.4 | 7192.3 | 7315.4 | 7156.3 | 6416.0 | 6236.2 |
| 25° | 7531.3 | 7442.7 | 7354.2 | 7271.1 | 7350.0 | 7471.8 | 7611.5 | 7554.8 | 6843.6 | 6615.3 |
| 27.5° | 8501.2 | 8393.3 | 8198.2 | 7925.6 | 7830.1 | 7873.0 | 7935.3 | 7924.2 | 7239.3 | 7008.2 |
| 30° | 9455.9 | 9330.0 | 9097.6 | 8703.2 | 8451.4 | 8337.9 | 8290.9 | 8259.1 | 7669.6 | 7423.3 |
| 32.5° | 10218.3 | 10118.7 | 9890.4 | 9449.0 | 9083.7 | 8890.0 | 8733.7 | 8620.2 | 8119.3 | 7873.0 |
| 35° | 10885.3 | 10792.5 | 10531.0 | 10049.5 | 9652.4 | 9446.2 | 9241.5 | 8999.3 | 8587.0 | 8337.9 |
| 37.5° | 11494.1 | 11401.4 | 11043.0 | 10542.1 | 10142.2 | 9999.7 | 9817.1 | 9406.1 | 9056.1 | 8820.8 |
| 40° | 11878.7 | 11858.0 | 11523.1 | 10955.8 | 10540.7 | 10470.2 | 10409.3 | 9877.9 | 9576.3 | 9357.7 |
| 42.5° | 11977.0 | 12022.6 | 11757.0 | 11290.7 | 10894.9 | 10838.2 | 10980.7 | 10412.0 | 10160.2 | 9951.3 |
| 45° | 11740.4 | 11871.8 | 11697.5 | 11380.6 | 11146.8 | 11116.3 | 11487.1 | 10995.9 | 10806.4 | 10615.4 |
| 47.5° | 11141.2 | 11364.0 | 11292.0 | 11247.8 | 11214.6 | 11346.0 | 11932.7 | 11615.8 | 11538.3 | 11372.3 |
| 50° | 9931.9 | 10353.9 | 10479.8 | 10759.3 | 11080.3 | 11524.5 | 12338.1 | 12292.4 | 12393.4 | 12226.0 |
| 52.5° | 7841.2 | 8422.3 | 9152.9 | 9853.0 | 10668.0 | 11465.0 | 12783.6 | 13263.8 | 13689.9 | 13598.6 |
| 55° | 6472.8 | 6734.3 | 7296.0 | 8580.1 | 9868.3 | 11214.6 | 12984.3 | 14048.3 | 14976.7 | 14895.1 |
| 57.5° | 5421.2 | 5655.0 | 6000.9 | 7073.3 | 8658.9 | 10645.9 | 13108.8 | 14527.0 | 15858.1 | 15849.8 |
| 60° | 4293.5 | 4541.2 | 4895.4 | 5655.0 | 7246.2 | 9663.5 | 13081.1 | 15072.2 | 16983.0 | 17052.2 |
| 62.5° | 3020.5 | 3293.1 | 3686.1 | 4394.5 | 5803.1 | 8390.5 | 12516.6 | 15466.6 | 18307.2 | 18495.4 |
| 65° | 1985.6 | 2165.4 | 2461.5 | 3073.1 | 4323.9 | 6753.6 | 11438.7 | 15517.7 | 19724.1 | 20042.3 |
| 67.5° | 1392.0 | 1461.1 | 1635.5 | 1967.6 | 2850.3 | 5179.0 | 9721.6 | 14987.8 | 20669.1 | 21027.5 |
| 70° | 1086.2 | 1120.8 | 1209.3 | 1342.2 | 1790.5 | 3482.7 | 7449.6 | 13609.7 | 20467.1 | 20840.7 |
| 72.5° | 938.1 | 971.3 | 1004.5 | 1021.1 | 1201.0 | 2150.2 | 5046.2 | 11379.2 | 18564.6 | 18817.8 |
| 75° | 851.0 | 859.3 | 886.9 | 881.4 | 916.0 | 1394.7 | 2912.6 | 8290.9 | 14647.4 | 14560.3 |
| 77.5° | 715.4 | 726.4 | 772.1 | 765.2 | 813.6 | 953.3 | 1512.3 | 5350.6 | 9496.1 | 8903.9 |
| 80° | 606.0 | 611.6 | 661.4 | 653.1 | 707.1 | 690.4 | 772.1 | 2727.2 | 4027.8 | 3412.1 |
| 82.5° | 210.3 | 260.1 | 505.0 | 520.3 | 539.6 | 417.9 | 445.5 | 1112.5 | 1230.1 | 942.3 |
| 85° | 102.4 | 109.3 | 257.4 | 365.3 | 363.9 | 210.3 | 217.2 | 397.1 | 387.4 | 304.4 |
| 87.5° | 16.6 | 20.8 | 30.4 | 142.5 | 113.5 | 55.3 | 74.7 | 77.5 | 80.3 | 69.2 |
| 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° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3145.1 | 0° | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 | 3145.1 |
| 3257.1 | 2.5° | 3179.7 | 3110.5 | 2965.2 | 2831.0 | 2725.8 | 2624.8 | 2568.1 | 2519.6 | 2492.0 | 2486.4 |
| 3409.3 | 5° | 3265.4 | 3122.9 | 2858.6 | 2635.9 | 2490.6 | 2382.7 | 2325.9 | 2290.0 | 2272.0 | 2260.9 |
| 3614.1 | 7.5° | 3388.6 | 3179.7 | 2803.3 | 2550.1 | 2397.9 | 2320.4 | 2291.3 | 2285.8 | 2284.4 | 2285.8 |
| 3861.8 | 10° | 3558.8 | 3272.4 | 2797.8 | 2529.3 | 2402.0 | 2359.1 | 2357.8 | 2359.1 | 2364.7 | 2366.1 |
| 4131.6 | 12.5° | 3742.8 | 3367.8 | 2819.9 | 2547.3 | 2454.6 | 2431.1 | 2426.9 | 2425.6 | 2429.7 | 2432.5 |
| 4404.2 | 15° | 3943.4 | 3493.7 | 2857.3 | 2586.1 | 2512.7 | 2487.8 | 2483.7 | 2475.4 | 2474.0 | 2472.6 |
| 4690.6 | 17.5° | 4149.6 | 3618.3 | 2898.8 | 2627.6 | 2550.1 | 2515.5 | 2500.3 | 2480.9 | 2465.7 | 2461.5 |
| 4986.7 | 20° | 4358.5 | 3741.4 | 2927.8 | 2648.3 | 2552.9 | 2504.4 | 2474.0 | 2440.8 | 2414.5 | 2399.3 |
| 5285.6 | 22.5° | 4581.3 | 3870.1 | 2945.8 | 2642.8 | 2527.9 | 2461.5 | 2406.2 | 2367.4 | 2327.3 | 2301.0 |
| 5587.2 | 25° | 4798.5 | 3982.2 | 2944.4 | 2613.7 | 2479.5 | 2395.1 | 2324.5 | 2274.7 | 2219.4 | 2191.7 |
| 5898.5 | 27.5° | 5007.5 | 4083.2 | 2909.8 | 2562.5 | 2410.3 | 2316.2 | 2231.8 | 2172.3 | 2118.4 | 2092.1 |
| 6212.6 | 30° | 5223.3 | 4167.6 | 2855.9 | 2487.8 | 2328.7 | 2224.9 | 2132.2 | 2081.0 | 2032.6 | 2007.7 |
| 6544.7 | 32.5° | 5437.8 | 4245.1 | 2779.8 | 2395.1 | 2234.6 | 2135.0 | 2043.7 | 1996.6 | 1967.6 | 1967.6 |
| 6901.7 | 35° | 5664.7 | 4299.0 | 2678.8 | 2287.2 | 2135.0 | 2039.5 | 1967.6 | 1939.9 | 1937.1 | 1920.5 |
| 7279.4 | 37.5° | 5904.1 | 4333.6 | 2555.6 | 2176.5 | 2036.7 | 1946.8 | 1924.7 | 1891.5 | 1863.8 | 1827.8 |
| 7694.5 | 40° | 6155.9 | 4368.2 | 2407.6 | 2061.7 | 1933.0 | 1883.2 | 1873.5 | 1829.2 | 1750.3 | 1661.8 |
| 8165.0 | 42.5° | 6461.7 | 4391.7 | 2254.0 | 1946.8 | 1823.7 | 1807.1 | 1820.9 | 1744.8 | 1618.9 | 1552.5 |
| 8732.3 | 45° | 6815.9 | 4430.5 | 2112.8 | 1833.3 | 1711.6 | 1711.6 | 1769.7 | 1670.1 | 1566.3 | 1524.8 |
| 9379.8 | 47.5° | 7275.3 | 4520.4 | 1981.4 | 1708.8 | 1607.8 | 1635.5 | 1656.2 | 1580.1 | 1522.0 | 1470.8 |
| 10168.5 | 50° | 7939.4 | 4736.3 | 1845.8 | 1582.9 | 1528.9 | 1584.3 | 1555.2 | 1511.0 | 1443.2 | 1401.6 |
| 11422.1 | 52.5° | 8764.1 | 4863.6 | 1725.4 | 1469.4 | 1461.1 | 1516.5 | 1475.0 | 1433.5 | 1382.3 | 1326.9 |
| 12372.7 | 55° | 9325.9 | 4887.1 | 1624.4 | 1386.4 | 1415.5 | 1409.9 | 1394.7 | 1357.4 | 1329.7 | 1256.4 |
| 13310.8 | 57.5° | 9954.1 | 4934.1 | 1541.4 | 1336.6 | 1386.4 | 1325.5 | 1320.0 | 1288.2 | 1252.2 | 1202.4 |
| 14455.1 | 60° | 10705.4 | 5007.5 | 1469.4 | 1317.2 | 1361.5 | 1270.2 | 1242.5 | 1230.1 | 1194.1 | 1169.2 |
| 15831.8 | 62.5° | 11524.5 | 5073.9 | 1396.1 | 1320.0 | 1332.5 | 1216.2 | 1174.7 | 1170.6 | 1148.4 | 1140.1 |
| 17124.2 | 65° | 12083.5 | 4892.6 | 1304.8 | 1317.2 | 1286.8 | 1160.9 | 1108.3 | 1106.9 | 1088.9 | 1086.2 |
| *17684.6* | 67.5° | *11888.4* | *4318.4* | *1181.6* | *1278.5* | *1239.8* | *1105.5* | *1047.4* | *1041.9* | *1018.4* | *1019.8* |
| 17099.3 | 70° | 10911.5 | 3499.3 | 1011.5 | 1183.0 | 1181.6 | 1055.7 | 983.8 | 965.8 | 934.0 | 939.5 |
| 14867.4 | 72.5° | 9079.6 | 2593.0 | 783.2 | 1023.9 | 1088.9 | 1010.1 | 910.4 | 881.4 | 841.3 | 846.8 |
| 10975.2 | 75° | 6557.2 | 1762.8 | 570.1 | 779.0 | 947.8 | 956.1 | 838.5 | 788.7 | 740.3 | 748.6 |
| 6108.9 | 77.5° | 3355.4 | 999.0 | 419.2 | 536.9 | 744.4 | 868.9 | 773.5 | 707.1 | 696.0 | 773.5 |
| 1761.4 | 80° | 1094.5 | 500.9 | 290.6 | 376.4 | 488.4 | 711.2 | 678.0 | 601.9 | 599.1 | 617.1 |
| 369.4 | 82.5° | 326.5 | 211.7 | 186.8 | 247.7 | 269.8 | 545.2 | 585.3 | 455.2 | 391.6 | 412.3 |
| 123.1 | 85° | 112.1 | 102.4 | 106.5 | 123.1 | 128.7 | 319.6 | 409.6 | 301.6 | 285.0 | 314.1 |
| 27.7 | 87.5° | 26.3 | 36.0 | 30.4 | 27.7 | 27.7 | 77.5 | 159.1 | 125.9 | 174.3 | 116.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

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| 180° |
|---|
| 3145.1 |
| 2486.4 |
| 2259.5 |
| 2290.0 |
| 2367.4 |
| 2433.9 |
| 2471.2 |
| 2465.7 |
| 2404.8 |
| 2302.4 |
| 2191.7 |
| 2090.7 |
| 2006.3 |
| 1968.9 |
| 1916.4 |
| 1822.3 |
| 1649.3 |
| 1553.9 |
| 1531.7 |
| 1469.4 |
| 1397.5 |
| 1315.9 |
| 1257.7 |
| 1185.8 |
| 1176.1 |
| 1140.1 |
| 1084.8 |
| *1019.8* |
| 945.0 |
| 845.4 |
| 751.3 |
| 762.4 |
| 529.9 |
| 426.2 |
| 309.9 |
| 112.1 |
| 0.0 |

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