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

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: P955029

Luminaire Tested: **GALN-SB8A-835-U-T2R**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P955029 |
| | 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-SB8A-835-U-T2R |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (8) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 34268 lumens |
| Efficiency: | N/A |
| Efficacy: | 150.9 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1.5' x H: 0') |
| IES Classification: | Type II - Medium |
| BUG Rating: | B3 - U0 - G4 |
| Input Watts (W): | 227.1 |
| 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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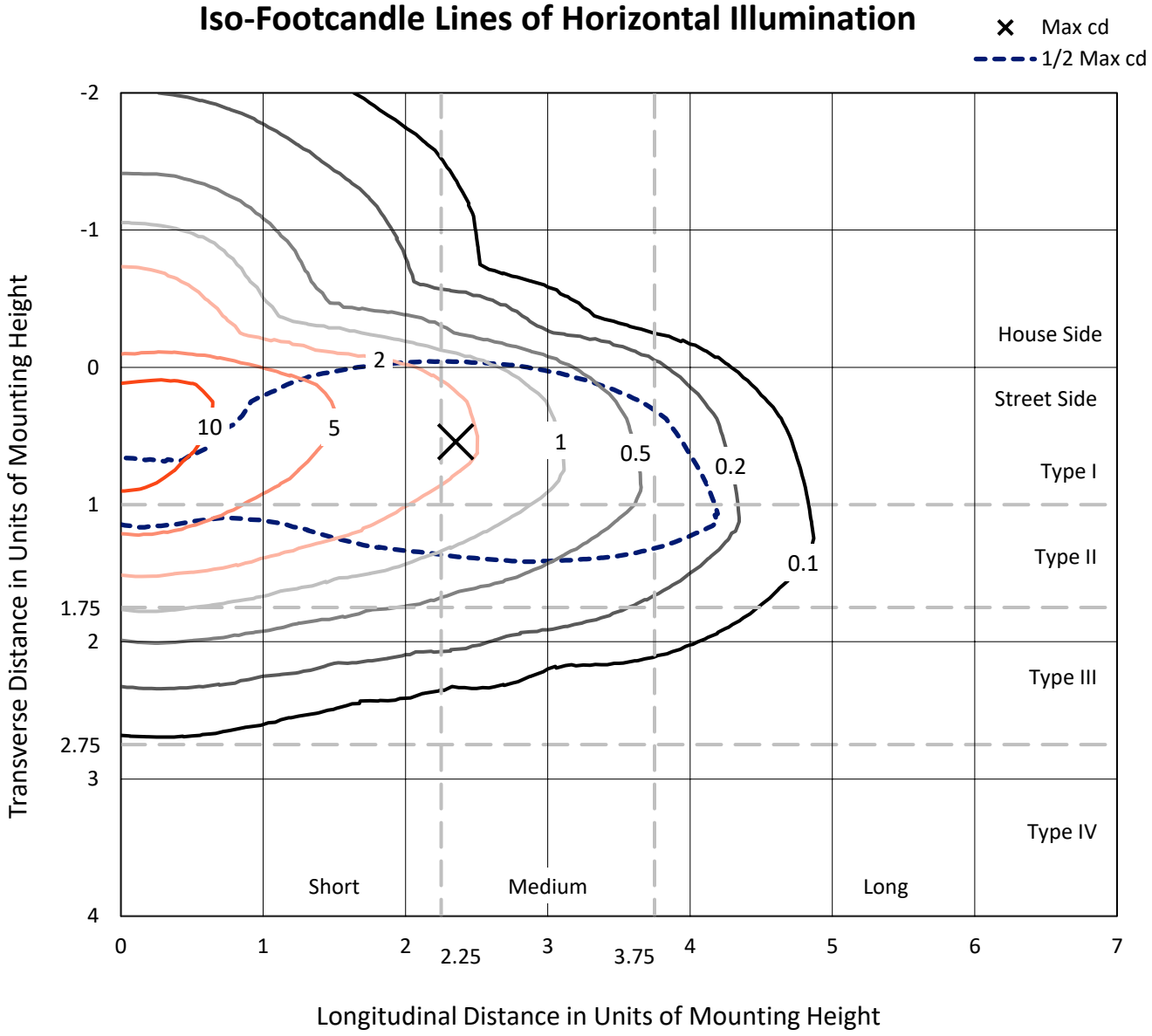
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type II - Medium - N/A

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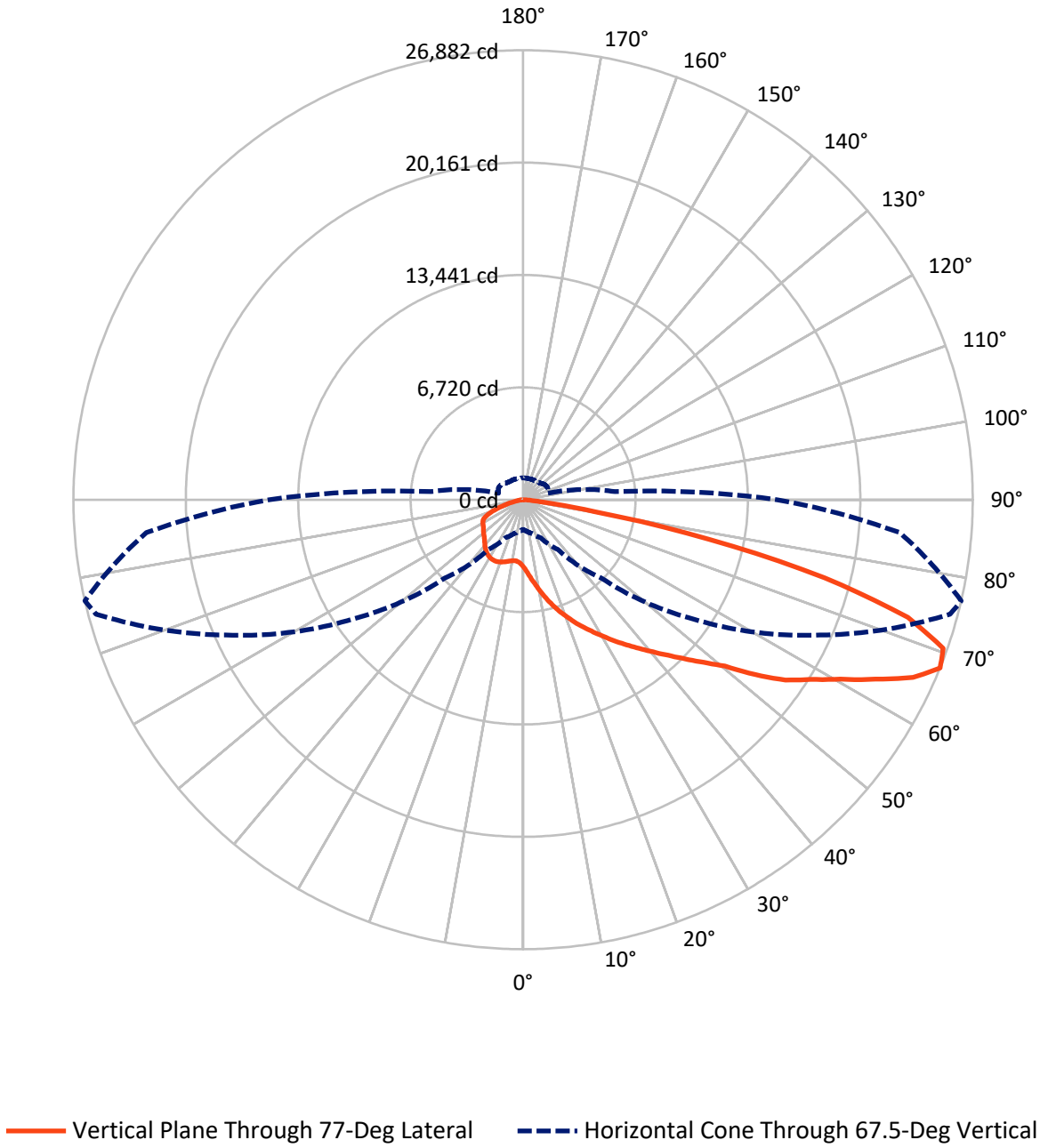
## Luminous Intensity Polar Plot



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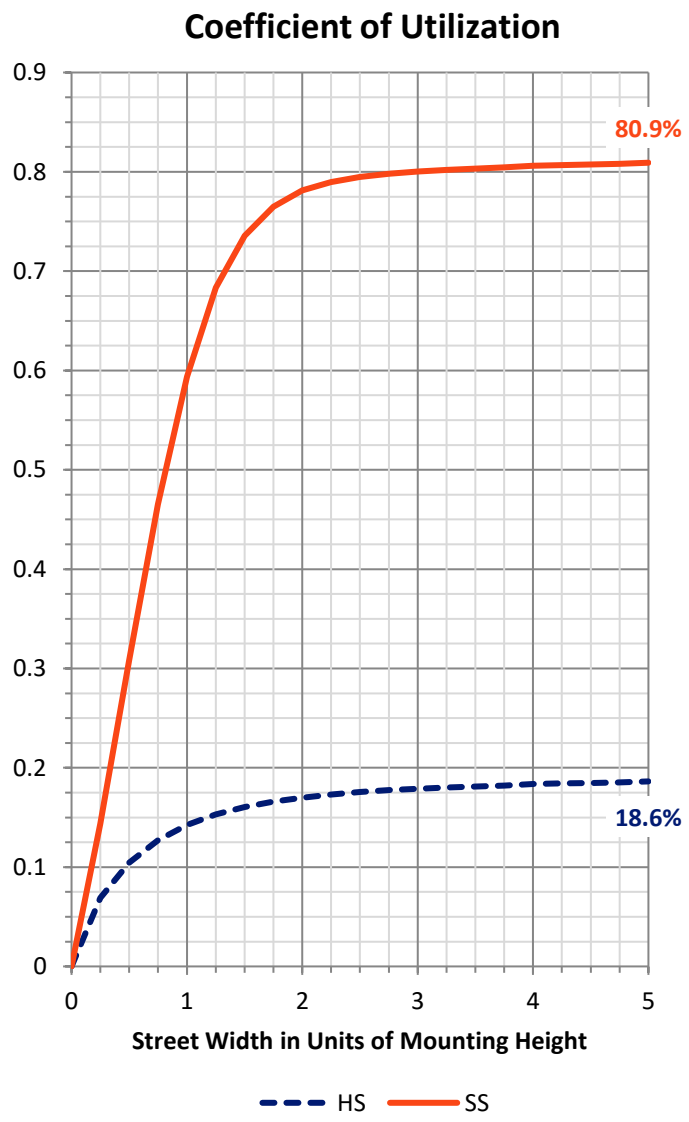
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 6482.1 | 0.0 | 6482.1 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| **Street Side** | Lumens | 27785.9 | 0.0 | 27785.9 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| **Total** | Lumens | 34268.0 | 0.0 | 34268.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 431.0 | 1.3 |
| 10°-20° | 1548.3 | 4.5 |
| 20°-30° | 2923.3 | 8.5 |
| 30°-40° | 4709.4 | 13.7 |
| 40°-50° | 6441.6 | 18.8 |
| 50°-60° | 7266.2 | 21.2 |
| 60°-70° | 6782.1 | 19.8 |
| 70°-80° | 3717.7 | 10.8 |
| 80°-90° | 448.4 | 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° | 34268.0 | 100.0 |
| 0°-180° | 34268.0 | 100.0 |



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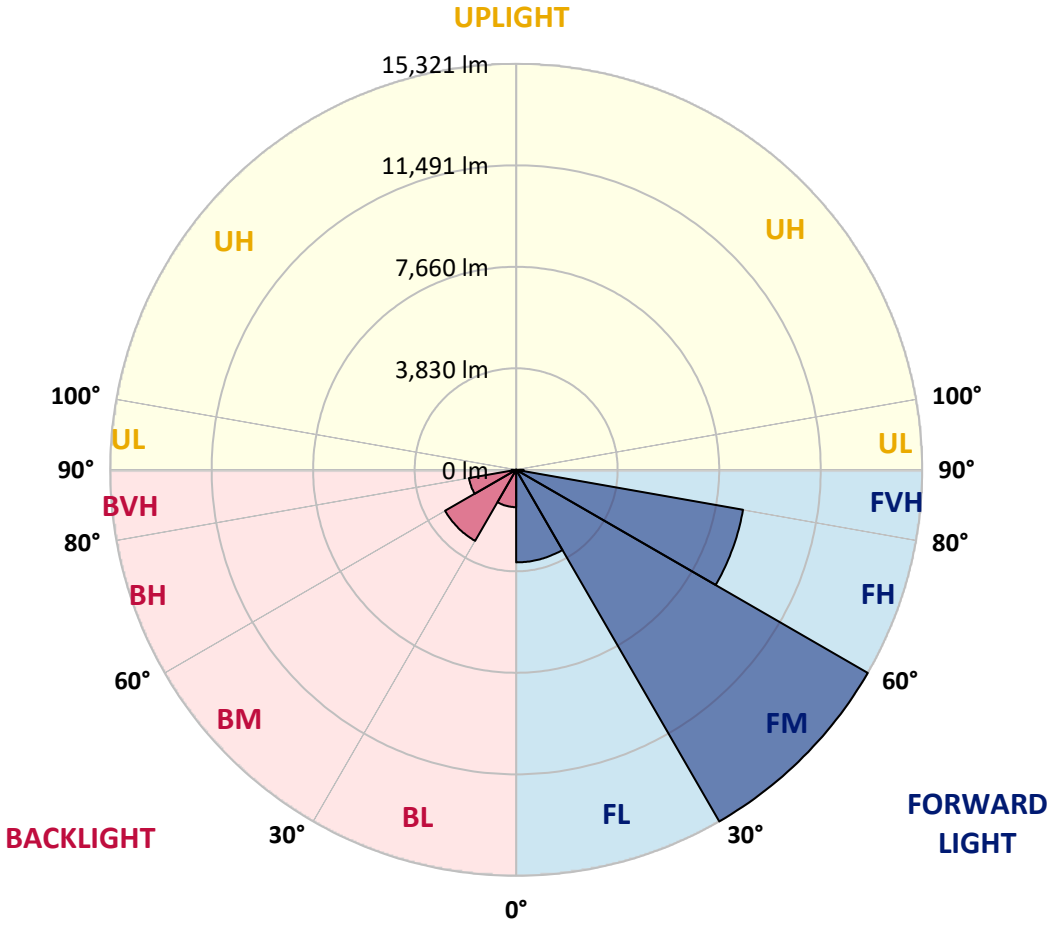
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 3493.2 | 10.2 | | | |
| FM | (30°-60°) | 15320.8 | 44.7 | | | |
| FH | (60°-80°) | 8691.4 | 25.4 | | | G4/12000 |
| FVH | (80°-90°) | 280.4 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1409.4 | 4.1 | B3/2500 | | |
| BM | (30°-60°) | 3096.4 | 9.0 | B3/5000 | | |
| BH | (60°-80°) | 1808.4 | 5.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 168.0 | 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-G4**
Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | *4020.7* |
| 2.5° | 5034.3 | 5069.7 | 5025.4 | 5025.4 | 4876.8 | 4799.0 | 4650.4 | 4537.2 | 4333.8 | *4298.4* |
| 5° | 5950.6 | 5994.8 | 5932.9 | 5906.3 | 5731.2 | 5570.3 | 5320.8 | 5075.0 | 4712.3 | *4675.2* |
| 7.5° | 6659.9 | 6716.5 | 6661.7 | 6633.4 | 6477.7 | 6297.3 | 6005.4 | 5662.2 | 5151.0 | *5078.5* |
| 10° | 7238.3 | 7247.2 | 7229.5 | 7240.1 | 7118.0 | 6969.5 | 6670.5 | 6270.7 | 5632.2 | *5533.1* |
| 12.5° | 7565.6 | 7606.3 | 7641.6 | 7705.3 | 7684.1 | 7592.1 | 7323.2 | 6845.6 | 6141.6 | *6014.2* |
| 15° | 7719.5 | 7790.2 | 7869.8 | 8016.6 | 8135.2 | 8158.1 | 7953.0 | 7463.0 | 6659.9 | *6506.0* |
| 17.5° | 7774.3 | 7841.5 | 7967.1 | 8179.4 | 8434.1 | 8605.7 | 8513.7 | 8062.6 | 7172.9 | *6996.0* |
| 20° | 8052.0 | 8071.5 | 8147.5 | 8349.2 | 8625.1 | 8909.9 | 8978.9 | 8639.3 | 7680.5 | *7480.7* |
| 22.5° | 8646.4 | 8607.4 | 8628.7 | 8720.7 | 8918.8 | 9194.7 | 9352.2 | 9148.7 | 8202.4 | *7972.4* |
| 25° | 9628.1 | 9514.9 | 9401.7 | 9295.5 | 9396.4 | 9552.0 | 9730.7 | 9658.2 | 8749.0 | *8457.1* |
| 27.5° | 10868.1 | 10730.1 | 10480.7 | 10132.2 | 10010.2 | 10065.0 | 10144.6 | 10130.5 | 9254.9 | *8959.5* |
| 30° | 12088.6 | 11927.7 | 11630.5 | 11126.4 | 10804.4 | 10659.4 | 10599.2 | 10558.5 | 9805.0 | *9490.1* |
| 32.5° | 13063.3 | 12935.9 | 12644.1 | 12079.8 | 11612.8 | 11365.2 | 11165.3 | 11020.2 | 10379.9 | *10065.0* |
| 35° | 13915.9 | 13797.4 | 13463.1 | 12847.5 | 12339.8 | 12076.3 | 11814.5 | 11504.9 | 10977.8 | *10659.4* |
| 37.5° | 14694.2 | 14575.7 | 14117.6 | 13477.2 | 12966.0 | 12783.8 | 12550.3 | 12025.0 | 11577.4 | *11276.7* |
| 40° | 15186.0 | 15159.4 | 14731.4 | 14006.1 | 13475.5 | 13385.2 | 13307.4 | 12628.1 | 12242.5 | *11963.0* |
| 42.5° | 15311.6 | 15369.9 | 15030.3 | 14434.2 | 13928.3 | 13855.8 | 14038.0 | 13310.9 | 12989.0 | *12721.9* |
| 45° | 15009.1 | 15177.1 | 14954.2 | 14549.2 | 14250.2 | 14211.3 | 14685.4 | 14057.4 | 13815.1 | *13571.0* |
| 47.5° | 14243.2 | 14527.9 | 14436.0 | 14379.4 | 14336.9 | 14504.9 | 15255.0 | 14849.9 | 14750.8 | *14538.6* |
| 50° | 12697.1 | 13236.7 | 13397.6 | 13754.9 | 14165.3 | 14733.1 | 15773.2 | 15714.9 | 15844.0 | *15630.0* |
| 52.5° | 10024.3 | 10767.3 | 11701.2 | 12596.3 | 13638.2 | 14657.1 | 16342.8 | 16956.6 | 17501.5 | *17384.7* |
| 55° | 8274.9 | 8609.2 | 9327.4 | 10968.9 | 12615.8 | 14336.9 | 16599.3 | 17959.6 | 19146.5 | *19042.2* |
| 57.5° | 6930.5 | 7229.5 | 7671.7 | 9042.6 | 11069.8 | 13609.9 | 16758.5 | 18571.6 | 20273.3 | *20262.7* |
| 60° | 5488.9 | 5805.5 | 6258.4 | 7229.5 | 9263.7 | 12354.0 | 16723.1 | 19268.6 | 21711.4 | *21799.9* |
| 62.5° | 3861.5 | 4210.0 | 4712.3 | 5618.0 | 7418.8 | 10726.6 | 16001.4 | 19772.7 | 23404.3 | *23644.8* |
| 65° | 2538.4 | 2768.3 | 3146.9 | 3928.7 | 5527.8 | 8634.0 | 14623.5 | 19838.2 | 25215.6 | *25622.5* |
| 67.5° | *1779.5* | *1868.0* | *2090.8* | *2515.4* | *3643.9* | *6621.0* | *12428.3* | *19160.7* | *26423.8* | *26881.9* |
| 70° | 1388.6 | 1432.8 | 1546.0 | 1715.8 | 2289.0 | 4452.3 | 9523.7 | 17398.9 | 26165.5 | *26643.1* |
| 72.5° | 1199.3 | 1241.8 | 1284.2 | 1305.4 | 1535.4 | 2748.9 | 6451.2 | 14547.4 | 23733.3 | *24057.0* |
| 75° | 1087.9 | 1098.5 | 1133.9 | 1126.8 | 1171.0 | 1783.0 | 3723.5 | 10599.2 | 18725.5 | *18614.1* |
| 77.5° | 914.5 | 928.7 | 987.0 | 978.2 | 1040.1 | 1218.8 | 1933.4 | 6840.3 | 12139.9 | *11382.8* |
| 80° | 774.8 | 781.9 | 845.5 | 834.9 | 903.9 | 882.7 | 987.0 | 3486.5 | 5149.3 | *4362.1* |
| 82.5° | 268.9 | 332.6 | 645.6 | 665.1 | 689.9 | 534.2 | 569.6 | 1422.2 | 1572.5 | *1204.6* |
| 85° | 130.9 | 139.7 | 329.0 | 467.0 | 465.2 | 268.9 | 277.7 | 507.7 | 495.3 | *389.2* |
| 87.5° | 21.2 | 26.5 | 38.9 | 182.2 | 145.0 | 70.8 | 95.5 | 99.1 | 102.6 | *88.4* |
| 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° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4020.7 | 0° | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 | 4020.7 |
| 4164.0 | 2.5° | 4064.9 | 3976.5 | 3790.7 | 3619.2 | 3484.7 | 3355.6 | 3283.1 | 3221.2 | 3185.8 | 3178.7 |
| 4358.6 | 5° | 4174.6 | 3992.4 | 3654.5 | 3369.7 | 3184.0 | 3046.0 | 2973.5 | 2927.5 | 2904.5 | 2890.4 |
| 4620.4 | 7.5° | 4332.0 | 4064.9 | 3583.8 | 3260.1 | 3065.5 | 2966.4 | 2929.3 | 2922.2 | 2920.4 | 2922.2 |
| 4937.0 | 10° | 4549.6 | 4183.4 | 3576.7 | 3233.5 | 3070.8 | 3016.0 | 3014.2 | 3016.0 | 3023.0 | 3024.8 |
| 5281.9 | 12.5° | 4784.9 | 4305.5 | 3605.0 | 3256.5 | 3138.0 | 3108.0 | 3102.6 | 3100.9 | 3106.2 | 3109.7 |
| 5630.4 | 15° | 5041.4 | 4466.5 | 3652.8 | 3306.1 | 3212.3 | 3180.5 | 3175.2 | 3164.6 | 3162.8 | 3161.0 |
| 5996.6 | 17.5° | 5304.9 | 4625.7 | 3705.8 | 3359.1 | 3260.1 | 3215.9 | 3196.4 | 3171.6 | 3152.2 | 3146.9 |
| 6375.1 | 20° | 5572.0 | 4783.1 | 3743.0 | 3385.7 | 3263.6 | 3201.7 | 3162.8 | 3120.3 | 3086.7 | 3067.3 |
| 6757.2 | 22.5° | 5856.8 | 4947.6 | 3766.0 | 3378.6 | 3231.8 | 3146.9 | 3076.1 | 3026.6 | 2975.3 | 2941.7 |
| 7142.8 | 25° | 6134.5 | 5090.9 | 3764.2 | 3341.4 | 3169.9 | 3062.0 | 2971.7 | 2908.1 | 2837.3 | 2801.9 |
| 7540.8 | 27.5° | 6401.6 | 5220.0 | 3720.0 | 3276.0 | 3081.4 | 2961.1 | 2853.2 | 2777.2 | 2708.2 | 2674.6 |
| 7942.3 | 30° | 6677.6 | 5327.9 | 3651.0 | 3180.5 | 2977.1 | 2844.4 | 2725.9 | 2660.4 | 2598.5 | 2566.7 |
| 8366.9 | 32.5° | 6951.8 | 5427.0 | 3553.7 | 3062.0 | 2856.8 | 2729.4 | 2612.7 | 2552.5 | 2515.4 | 2515.4 |
| 8823.3 | 35° | 7241.9 | 5496.0 | 3424.6 | 2924.0 | 2729.4 | 2607.4 | 2515.4 | 2480.0 | 2476.5 | 2455.2 |
| 9306.2 | 37.5° | 7547.9 | 5540.2 | 3267.2 | 2782.5 | 2603.8 | 2488.8 | 2460.5 | 2418.1 | 2382.7 | 2336.7 |
| 9836.8 | 40° | 7869.8 | 5584.4 | 3077.9 | 2635.7 | 2471.1 | 2407.5 | 2395.1 | 2338.5 | 2237.7 | 2124.4 |
| 10438.3 | 42.5° | 8260.7 | 5614.5 | 2881.5 | 2488.8 | 2331.4 | 2310.2 | 2327.9 | 2230.6 | 2069.6 | 1984.7 |
| 11163.5 | 45° | 8713.6 | 5664.0 | 2701.1 | 2343.8 | 2188.1 | 2188.1 | 2262.4 | 2135.1 | 2002.4 | 1949.3 |
| 11991.3 | 47.5° | 9300.9 | 5779.0 | 2533.1 | 2184.6 | 2055.5 | 2090.8 | 2117.4 | 2020.1 | 1945.8 | 1880.3 |
| 12999.6 | 50° | 10149.9 | 6054.9 | 2359.7 | 2023.6 | 1954.6 | 2025.4 | 1988.2 | 1931.6 | 1845.0 | 1791.9 |
| 14602.2 | 52.5° | 11204.2 | 6217.7 | 2205.8 | 1878.6 | 1868.0 | 1938.7 | 1885.6 | 1832.6 | 1767.1 | 1696.4 |
| 15817.5 | 55° | 11922.4 | 6247.7 | 2076.7 | 1772.4 | 1809.6 | 1802.5 | 1783.0 | 1735.3 | 1699.9 | 1606.2 |
| 17016.8 | 57.5° | 12725.4 | 6307.9 | 1970.6 | 1708.8 | 1772.4 | 1694.6 | 1687.5 | 1646.8 | 1600.9 | 1537.2 |
| 18479.7 | 60° | 13685.9 | 6401.6 | 1878.6 | 1684.0 | 1740.6 | 1623.8 | 1588.5 | 1572.5 | 1526.6 | 1494.7 |
| 20239.7 | 62.5° | 14733.1 | 6486.5 | 1784.8 | 1687.5 | 1703.4 | 1554.9 | 1501.8 | 1496.5 | 1468.2 | 1457.6 |
| 21891.9 | 65° | 15447.8 | 6254.8 | 1668.1 | 1684.0 | 1645.1 | 1484.1 | 1416.9 | 1415.1 | 1392.1 | 1388.6 |
| *22608.3* | 67.5° | *15198.4* | *5520.7* | *1510.6* | *1634.5* | *1584.9* | *1413.3* | *1339.1* | *1332.0* | *1301.9* | *1303.7* |
| 21860.0 | 70° | 13949.5 | 4473.5 | 1293.1 | 1512.4 | 1510.6 | 1349.7 | 1257.7 | 1234.7 | 1194.0 | 1201.1 |
| 19006.8 | 72.5° | 11607.5 | 3314.9 | 1001.2 | 1309.0 | 1392.1 | 1291.3 | 1163.9 | 1126.8 | 1075.5 | 1082.6 |
| 14030.9 | 75° | 8382.8 | 2253.6 | 728.8 | 995.9 | 1211.7 | 1222.3 | 1072.0 | 1008.3 | 946.4 | 957.0 |
| 7809.7 | 77.5° | 4289.6 | 1277.1 | 536.0 | 686.3 | 951.7 | 1110.9 | 988.8 | 903.9 | 889.8 | 988.8 |
| 2251.8 | 80° | 1399.2 | 640.3 | 371.5 | 481.1 | 624.4 | 909.2 | 866.8 | 769.5 | 765.9 | 788.9 |
| 472.3 | 82.5° | 417.5 | 270.6 | 238.8 | 316.6 | 344.9 | 696.9 | 748.2 | 582.0 | 500.6 | 527.1 |
| 157.4 | 85° | 143.3 | 130.9 | 136.2 | 157.4 | 164.5 | 408.6 | 523.6 | 385.6 | 364.4 | 401.5 |
| 35.4 | 87.5° | 33.6 | 46.0 | 38.9 | 35.4 | 35.4 | 99.1 | 203.4 | 161.0 | 222.9 | 148.6 |
| 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° |
|---|
| 4020.7 |
| 3178.7 |
| 2888.6 |
| 2927.5 |
| 3026.6 |
| 3111.5 |
| 3159.2 |
| 3152.2 |
| 3074.3 |
| 2943.4 |
| 2801.9 |
| 2672.8 |
| 2564.9 |
| 2517.1 |
| 2449.9 |
| 2329.6 |
| 2108.5 |
| 1986.5 |
| 1958.2 |
| 1878.6 |
| 1786.6 |
| 1682.2 |
| 1607.9 |
| 1515.9 |
| 1503.6 |
| 1457.6 |
| 1386.8 |
| *1303.7* |
| 1208.2 |
| 1080.8 |
| 960.5 |
| 974.7 |
| 677.5 |
| 544.8 |
| 396.2 |
| 143.3 |
| 0.0 |

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