

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: P946146

Luminaire Tested: **GALN-SB1D-850-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946146  
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-SB1D-850-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

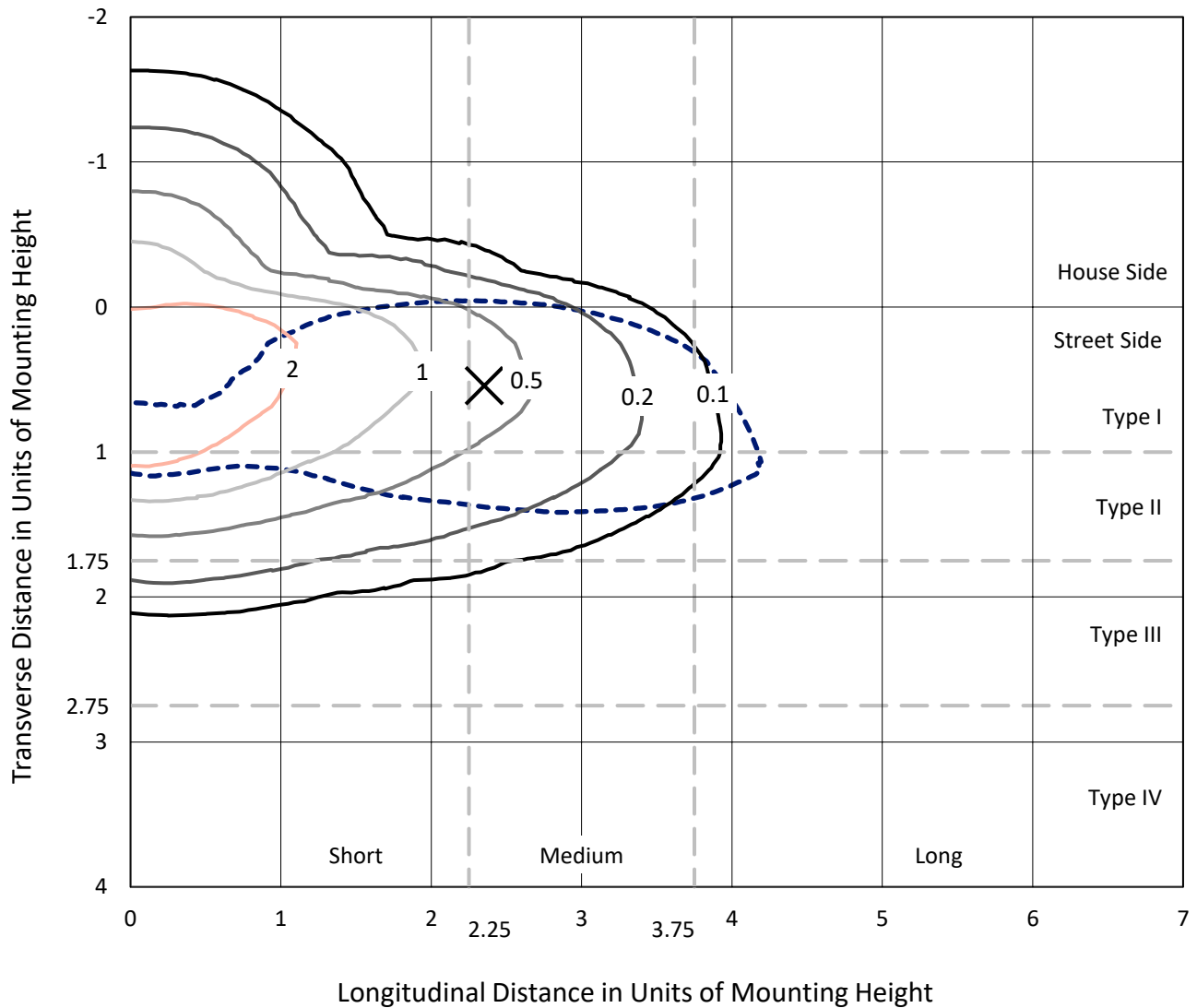
Lumens per Lamp: N/A  
Luminaire Lumens: 9917 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

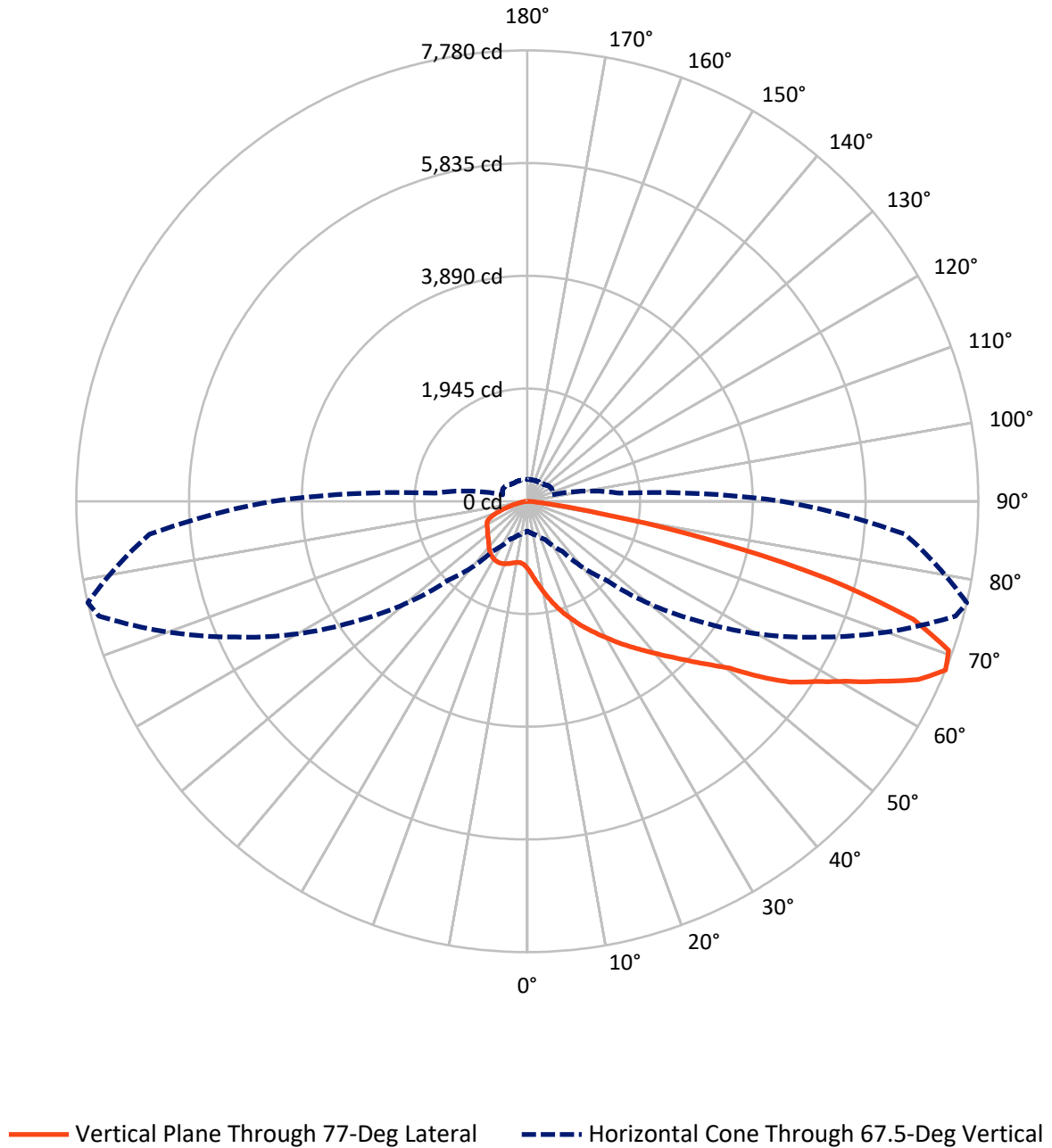
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1875.9   | 0.0    | 1875.9 |
|                    | % Fixture | 18.9     | 0.0    | 18.9   |
| <b>Street Side</b> | Lumens    | 8041.1   | 0.0    | 8041.1 |
|                    | % Fixture | 81.1     | 0.0    | 81.1   |
| <b>Total</b>       | Lumens    | 9917.0   | 0.0    | 9917.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.7  | 1.3       |
| 10°-20°   | 448.1  | 4.5       |
| 20°-30°   | 846.0  | 8.5       |
| 30°-40°   | 1362.9 | 13.7      |
| 40°-50°   | 1864.2 | 18.8      |
| 50°-60°   | 2102.8 | 21.2      |
| 60°-70°   | 1962.7 | 19.8      |
| 70°-80°   | 1075.9 | 10.8      |
| 80°-90°   | 129.8  | 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°    | 9917.0 | 100.0     |
| 0°-180°   | 9917.0 | 100.0     |

**Coefficient of Utilization**



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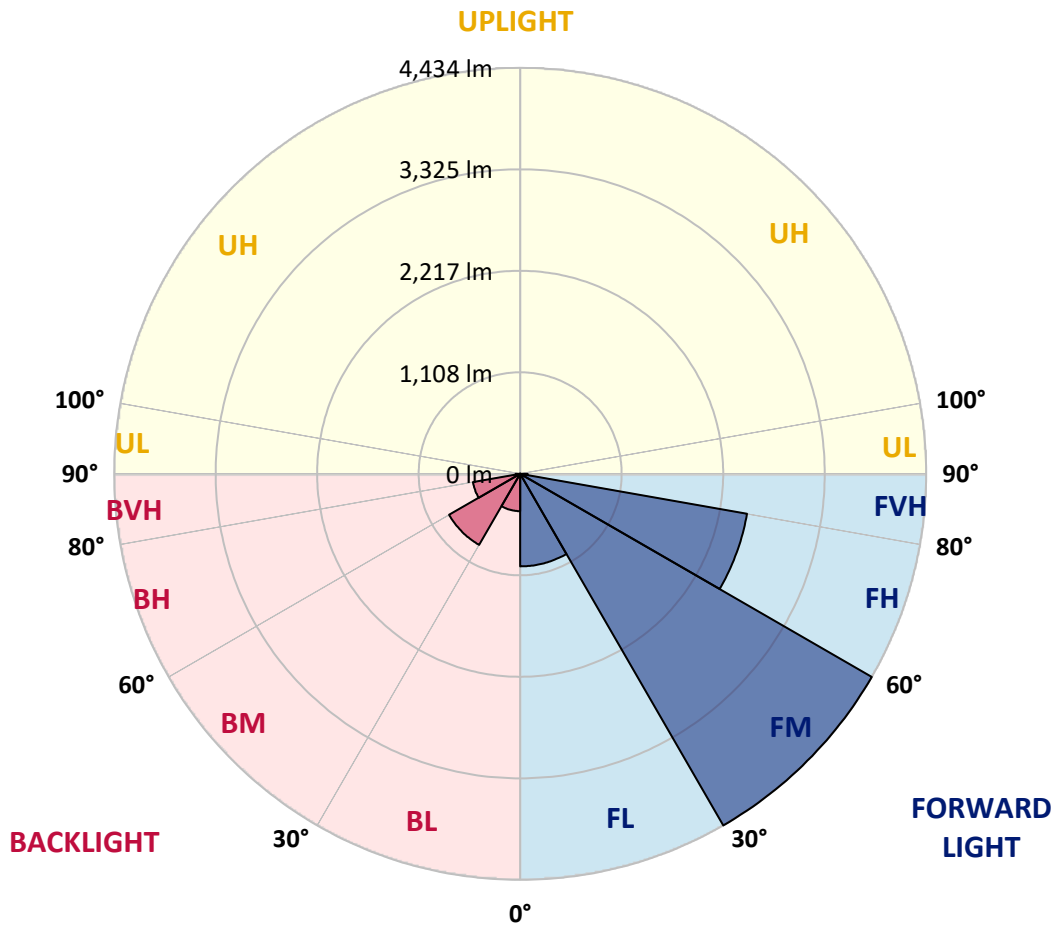
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1010.9 | 10.2      |                         |      |         |
| FM (30°-60°)   | 4433.8 | 44.7      |                         |      |         |
| FH (60°-80°)   | 2515.2 | 25.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 81.2   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 407.9  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 896.1  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 523.3  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 48.6   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 |
| 2.5°  | 1456.9 | 1467.1 | 1454.3 | 1454.3 | 1411.3 | 1388.8 | 1345.8 | 1313.1 | 1254.2 | 1243.9 |
| 5°    | 1722.1 | 1734.9 | 1716.9 | 1709.3 | 1658.6 | 1612.0 | 1539.8 | 1468.7 | 1363.7 | 1353.0 |
| 7.5°  | 1927.3 | 1943.7 | 1927.9 | 1919.7 | 1874.6 | 1822.4 | 1737.9 | 1638.6 | 1490.7 | 1469.7 |
| 10°   | 2094.7 | 2097.3 | 2092.2 | 2095.2 | 2059.9 | 2016.9 | 1930.4 | 1814.7 | 1629.9 | 1601.3 |
| 12.5° | 2189.4 | 2201.2 | 2211.5 | 2229.9 | 2223.7 | 2197.1 | 2119.3 | 1981.1 | 1777.4 | 1740.5 |
| 15°   | 2234.0 | 2254.5 | 2277.5 | 2320.0 | 2354.3 | 2360.9 | 2301.5 | 2159.7 | 1927.3 | 1882.8 |
| 17.5° | 2249.8 | 2269.3 | 2305.6 | 2367.1 | 2440.8 | 2490.4 | 2463.8 | 2333.3 | 2075.8 | 2024.6 |
| 20°   | 2330.2 | 2335.8 | 2357.9 | 2416.2 | 2496.1 | 2578.5 | 2598.5 | 2500.2 | 2222.7 | 2164.9 |
| 22.5° | 2502.2 | 2491.0 | 2497.1 | 2523.7 | 2581.1 | 2660.9 | 2706.5 | 2647.6 | 2373.7 | 2307.2 |
| 25°   | 2786.3 | 2753.6 | 2720.8 | 2690.1 | 2719.3 | 2764.3 | 2816.0 | 2795.0 | 2531.9 | 2447.4 |
| 27.5° | 3145.2 | 3105.2 | 3033.1 | 2932.2 | 2896.9 | 2912.8 | 2935.8 | 2931.7 | 2678.3 | 2592.8 |
| 30°   | 3498.4 | 3451.8 | 3365.8 | 3219.9 | 3126.7 | 3084.8 | 3067.4 | 3055.6 | 2837.5 | 2746.4 |
| 32.5° | 3780.5 | 3743.6 | 3659.1 | 3495.8 | 3360.7 | 3289.0 | 3231.2 | 3189.2 | 3003.9 | 2912.8 |
| 35°   | 4027.2 | 3992.9 | 3896.1 | 3718.0 | 3571.1 | 3494.8 | 3419.0 | 3329.5 | 3176.9 | 3084.8 |
| 37.5° | 4252.4 | 4218.1 | 4085.6 | 3900.2 | 3752.3 | 3699.6 | 3632.0 | 3480.0 | 3350.5 | 3263.4 |
| 40°   | 4394.8 | 4387.1 | 4263.2 | 4053.3 | 3899.7 | 3873.6 | 3851.1 | 3654.5 | 3542.9 | 3462.0 |
| 42.5° | 4431.1 | 4448.0 | 4349.7 | 4177.2 | 4030.8 | 4009.8 | 4062.5 | 3852.1 | 3759.0 | 3681.7 |
| 45°   | 4343.6 | 4392.2 | 4327.7 | 4210.5 | 4123.9 | 4112.7 | 4249.9 | 4068.2 | 3998.0 | 3927.4 |
| 47.5° | 4121.9 | 4204.3 | 4177.7 | 4161.3 | 4149.0 | 4197.7 | 4414.7 | 4297.5 | 4268.8 | 4207.4 |
| 50°   | 3674.5 | 3830.6 | 3877.2 | 3980.6 | 4099.4 | 4263.7 | 4564.7 | 4547.8 | 4585.2 | 4523.2 |
| 52.5° | 2901.0 | 3116.0 | 3386.3 | 3645.3 | 3946.8 | 4241.7 | 4729.5 | 4907.2 | 5064.8 | 5031.1 |
| 55°   | 2394.7 | 2491.5 | 2699.3 | 3174.4 | 3650.9 | 4149.0 | 4803.8 | 5197.4 | 5540.9 | 5510.7 |
| 57.5° | 2005.7 | 2092.2 | 2220.2 | 2616.9 | 3203.5 | 3938.6 | 4849.8 | 5374.5 | 5867.0 | 5863.9 |
| 60°   | 1588.5 | 1680.1 | 1811.1 | 2092.2 | 2680.9 | 3575.2 | 4839.6 | 5576.2 | 6283.2 | 6308.8 |
| 62.5° | 1117.5 | 1218.3 | 1363.7 | 1625.8 | 2147.0 | 3104.2 | 4630.7 | 5722.1 | 6773.1 | 6842.7 |
| 65°   | 734.6  | 801.1  | 910.7  | 1137.0 | 1599.7 | 2498.6 | 4232.0 | 5741.1 | 7297.3 | 7415.0 |
| 67.5° | 515.0  | 540.6  | 605.1  | 727.9  | 1054.5 | 1916.1 | 3596.7 | 5545.0 | 7646.9 | 7779.5 |
| 70°   | 401.8  | 414.6  | 447.4  | 496.6  | 662.4  | 1288.5 | 2756.1 | 5035.2 | 7572.2 | 7710.4 |
| 72.5° | 347.1  | 359.4  | 371.6  | 377.8  | 444.3  | 795.5  | 1866.9 | 4210.0 | 6868.3 | 6962.0 |
| 75°   | 314.8  | 317.9  | 328.1  | 326.1  | 338.9  | 516.0  | 1077.6 | 3067.4 | 5419.1 | 5386.8 |
| 77.5° | 264.7  | 268.8  | 285.6  | 283.1  | 301.0  | 352.7  | 559.5  | 1979.6 | 3513.2 | 3294.1 |
| 80°   | 224.2  | 226.3  | 244.7  | 241.6  | 261.6  | 255.4  | 285.6  | 1009.0 | 1490.2 | 1262.4 |
| 82.5° | 77.8   | 96.2   | 186.8  | 192.5  | 199.6  | 154.6  | 164.8  | 411.6  | 455.1  | 348.6  |
| 85°   | 37.9   | 40.4   | 95.2   | 135.1  | 134.6  | 77.8   | 80.4   | 146.9  | 143.3  | 112.6  |
| 87.5° | 6.1    | 7.7    | 11.3   | 52.7   | 42.0   | 20.5   | 27.6   | 28.7   | 29.7   | 25.6   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1163.6 | 0°    | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 | 1163.6 |
| 1205.0 | 2.5°  | 1176.4 | 1150.8 | 1097.0 | 1047.4 | 1008.5 | 971.1  | 950.1  | 932.2  | 922.0  | 919.9  |
| 1261.3 | 5°    | 1208.1 | 1155.4 | 1057.6 | 975.2  | 921.4  | 881.5  | 860.5  | 847.2  | 840.6  | 836.5  |
| 1337.1 | 7.5°  | 1253.7 | 1176.4 | 1037.1 | 943.5  | 887.1  | 858.5  | 847.7  | 845.7  | 845.2  | 845.7  |
| 1428.7 | 10°   | 1316.6 | 1210.7 | 1035.1 | 935.8  | 888.7  | 872.8  | 872.3  | 872.8  | 874.9  | 875.4  |
| 1528.6 | 12.5° | 1384.7 | 1246.0 | 1043.3 | 942.4  | 908.1  | 899.4  | 897.9  | 897.4  | 898.9  | 899.9  |
| 1629.4 | 15°   | 1458.9 | 1292.6 | 1057.1 | 956.8  | 929.6  | 920.4  | 918.9  | 915.8  | 915.3  | 914.8  |
| 1735.4 | 17.5° | 1535.2 | 1338.6 | 1072.5 | 972.1  | 943.5  | 930.7  | 925.0  | 917.9  | 912.2  | 910.7  |
| 1844.9 | 20°   | 1612.5 | 1384.2 | 1083.2 | 979.8  | 944.5  | 926.6  | 915.3  | 903.0  | 893.3  | 887.7  |
| 1955.5 | 22.5° | 1694.9 | 1431.8 | 1089.9 | 977.7  | 935.3  | 910.7  | 890.2  | 875.9  | 861.0  | 851.3  |
| 2067.1 | 25°   | 1775.3 | 1473.3 | 1089.3 | 967.0  | 917.3  | 886.1  | 860.0  | 841.6  | 821.1  | 810.9  |
| 2182.3 | 27.5° | 1852.6 | 1510.6 | 1076.5 | 948.1  | 891.7  | 856.9  | 825.7  | 803.7  | 783.7  | 774.0  |
| 2298.5 | 30°   | 1932.5 | 1541.9 | 1056.6 | 920.4  | 861.5  | 823.2  | 788.9  | 769.9  | 752.0  | 742.8  |
| 2421.3 | 32.5° | 2011.8 | 1570.5 | 1028.4 | 886.1  | 826.7  | 789.9  | 756.1  | 738.7  | 727.9  | 727.9  |
| 2553.4 | 35°   | 2095.8 | 1590.5 | 991.1  | 846.2  | 789.9  | 754.6  | 727.9  | 717.7  | 716.7  | 710.5  |
| 2693.2 | 37.5° | 2184.3 | 1603.3 | 945.5  | 805.2  | 753.5  | 720.3  | 712.1  | 699.8  | 689.5  | 676.2  |
| 2846.7 | 40°   | 2277.5 | 1616.1 | 890.7  | 762.7  | 715.1  | 696.7  | 693.1  | 676.7  | 647.6  | 614.8  |
| 3020.8 | 42.5° | 2390.6 | 1624.8 | 833.9  | 720.3  | 674.7  | 668.6  | 673.7  | 645.5  | 598.9  | 574.4  |
| 3230.7 | 45°   | 2521.7 | 1639.1 | 781.7  | 678.3  | 633.2  | 633.2  | 654.7  | 617.9  | 579.5  | 564.1  |
| 3470.2 | 47.5° | 2691.6 | 1672.4 | 733.1  | 632.2  | 594.8  | 605.1  | 612.8  | 584.6  | 563.1  | 544.2  |
| 3762.0 | 50°   | 2937.3 | 1752.3 | 682.9  | 585.6  | 565.7  | 586.1  | 575.4  | 559.0  | 533.9  | 518.6  |
| 4225.8 | 52.5° | 3242.4 | 1799.4 | 638.4  | 543.6  | 540.6  | 561.1  | 545.7  | 530.3  | 511.4  | 490.9  |
| 4577.5 | 55°   | 3450.3 | 1808.1 | 601.0  | 512.9  | 523.7  | 521.6  | 516.0  | 502.2  | 491.9  | 464.8  |
| 4924.6 | 57.5° | 3682.7 | 1825.5 | 570.3  | 494.5  | 512.9  | 490.4  | 488.4  | 476.6  | 463.3  | 444.9  |
| 5347.9 | 60°   | 3960.7 | 1852.6 | 543.6  | 487.3  | 503.7  | 469.9  | 459.7  | 455.1  | 441.8  | 432.6  |
| 5857.3 | 62.5° | 4263.7 | 1877.2 | 516.5  | 488.4  | 493.0  | 450.0  | 434.6  | 433.1  | 424.9  | 421.8  |
| 6335.4 | 65°   | 4470.5 | 1810.1 | 482.7  | 487.3  | 476.1  | 429.5  | 410.0  | 409.5  | 402.9  | 401.8  |
| 6542.7 | 67.5° | 4398.3 | 1597.7 | 437.2  | 473.0  | 458.7  | 409.0  | 387.5  | 385.5  | 376.8  | 377.3  |
| 6326.2 | 70°   | 4036.9 | 1294.6 | 374.2  | 437.7  | 437.2  | 390.6  | 364.0  | 357.3  | 345.5  | 347.6  |
| 5500.5 | 72.5° | 3359.2 | 959.3  | 289.7  | 378.8  | 402.9  | 373.7  | 336.8  | 326.1  | 311.2  | 313.3  |
| 4060.5 | 75°   | 2425.9 | 652.2  | 210.9  | 288.2  | 350.7  | 353.7  | 310.2  | 291.8  | 273.9  | 276.9  |
| 2260.1 | 77.5° | 1241.4 | 369.6  | 155.1  | 198.6  | 275.4  | 321.5  | 286.2  | 261.6  | 257.5  | 286.2  |
| 651.7  | 80°   | 404.9  | 185.3  | 107.5  | 139.2  | 180.7  | 263.1  | 250.8  | 222.7  | 221.7  | 228.3  |
| 136.7  | 82.5° | 120.8  | 78.3   | 69.1   | 91.6   | 99.8   | 201.7  | 216.5  | 168.4  | 144.9  | 152.5  |
| 45.6   | 85°   | 41.5   | 37.9   | 39.4   | 45.6   | 47.6   | 118.3  | 151.5  | 111.6  | 105.5  | 116.2  |
| 10.2   | 87.5° | 9.7    | 13.3   | 11.3   | 10.2   | 10.2   | 28.7   | 58.9   | 46.6   | 64.5   | 43.0   |
| 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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| <u>180°</u> |
|-------------|
| 1163.6      |
| 919.9       |
| 835.9       |
| 847.2       |
| 875.9       |
| 900.5       |
| 914.3       |
| 912.2       |
| 889.7       |
| 851.8       |
| 810.9       |
| 773.5       |
| 742.3       |
| 728.4       |
| 709.0       |
| 674.2       |
| 610.2       |
| 574.9       |
| 566.7       |
| 543.6       |
| 517.0       |
| 486.8       |
| 465.3       |
| 438.7       |
| 435.1       |
| 421.8       |
| 401.3       |
| 377.3       |
| 349.6       |
| 312.8       |
| 278.0       |
| 282.1       |
| 196.1       |
| 157.7       |
| 114.7       |
| 41.5        |
| 0.0         |

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