

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: P946970

Luminaire Tested: **GALN-SB2B-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

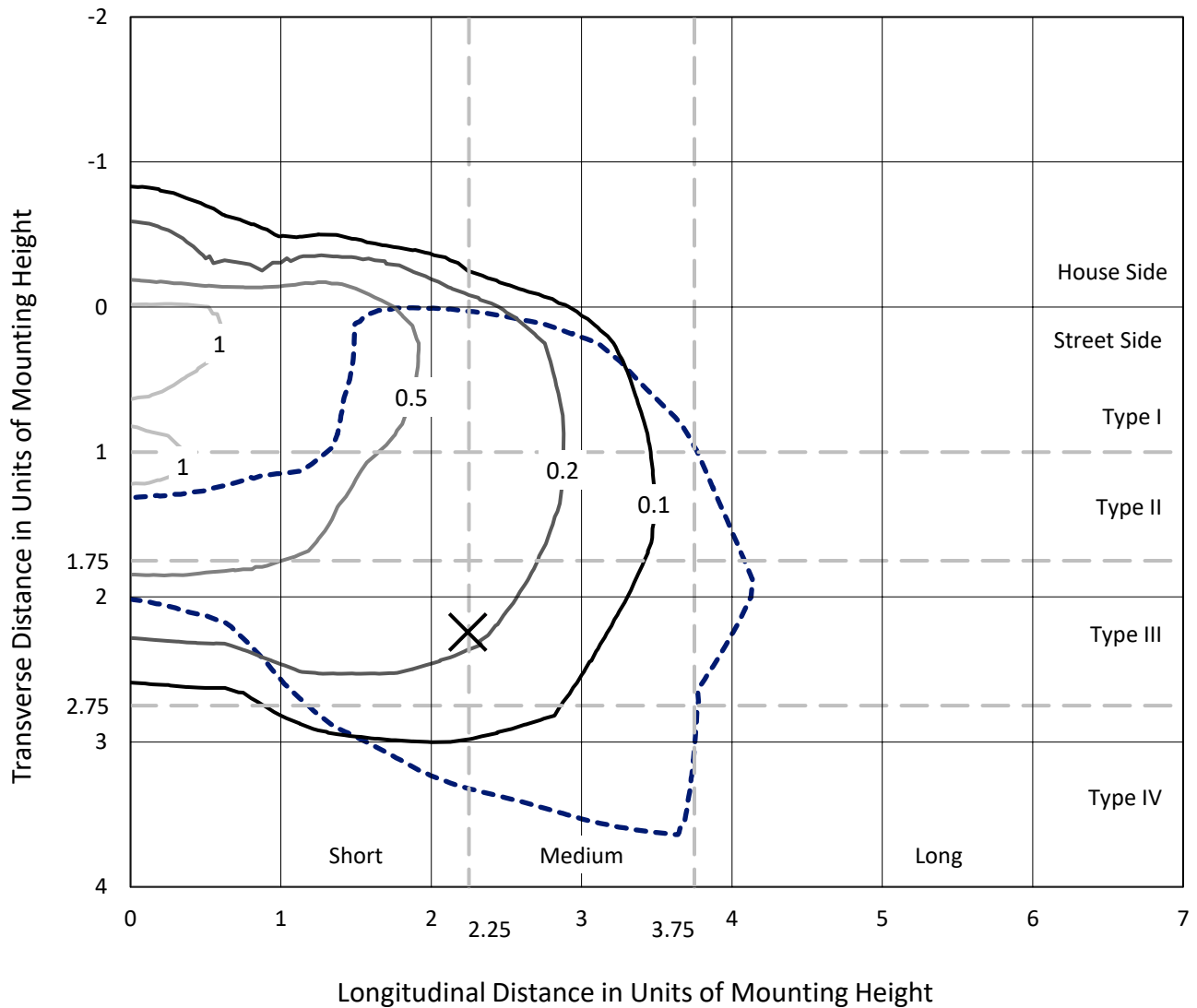
Lumens per Lamp: N/A  
Luminaire Lumens: 6034 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

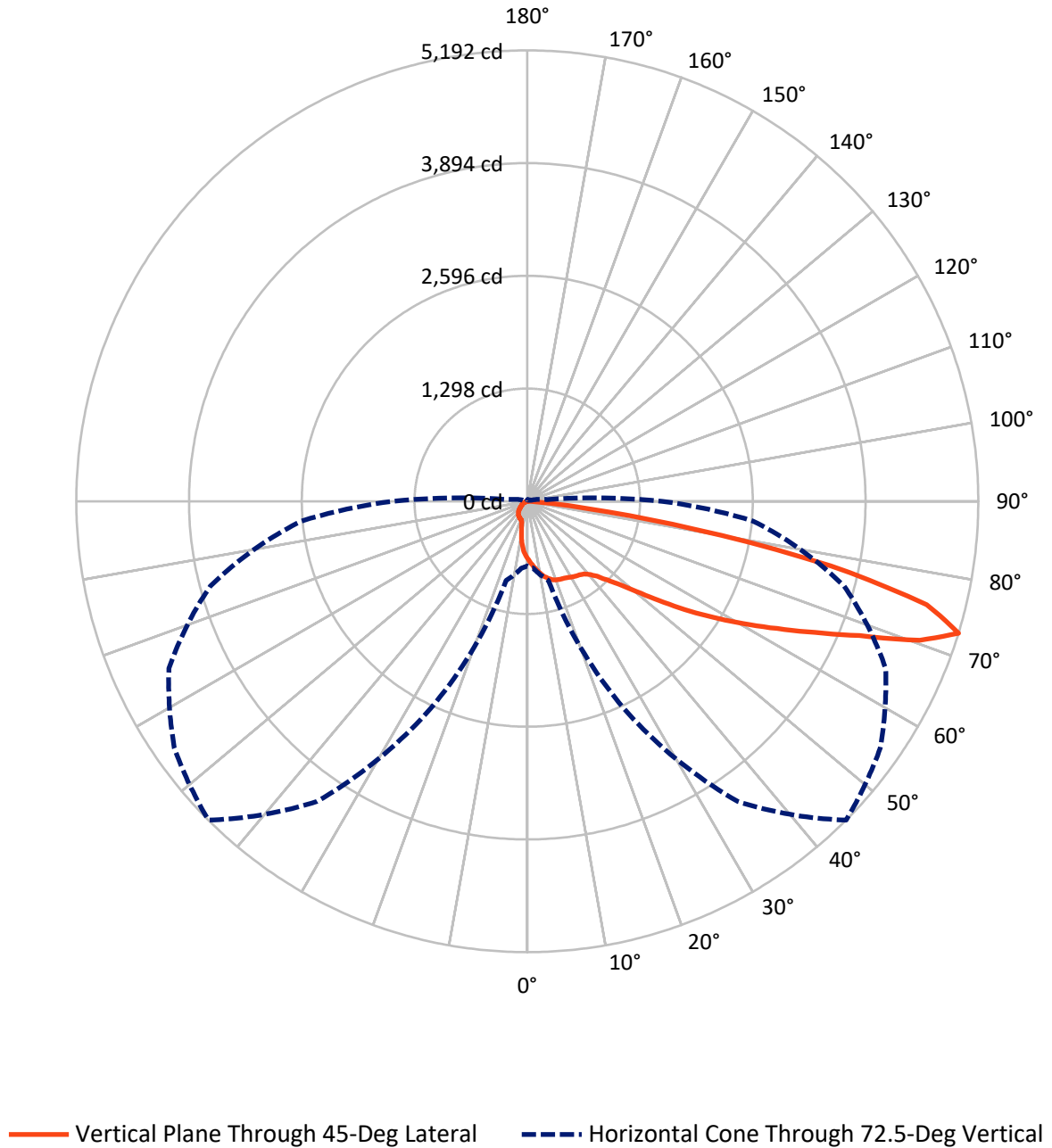
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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    | 634.0    | 0.0    | 634.0  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 5400.0   | 0.0    | 5400.0 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 6034.0   | 0.0    | 6034.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.3   | 1.0       |
| 10°-20°   | 182.0  | 3.0       |
| 20°-30°   | 298.9  | 5.0       |
| 30°-40°   | 423.9  | 7.0       |
| 40°-50°   | 700.7  | 11.6      |
| 50°-60°   | 1258.8 | 20.9      |
| 60°-70°   | 1747.9 | 29.0      |
| 70°-80°   | 1267.8 | 21.0      |
| 80°-90°   | 91.7   | 1.5       |
| 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°    | 6034.0 | 100.0     |
| 0°-180°   | 6034.0 | 100.0     |

**Coefficient of Utilization**



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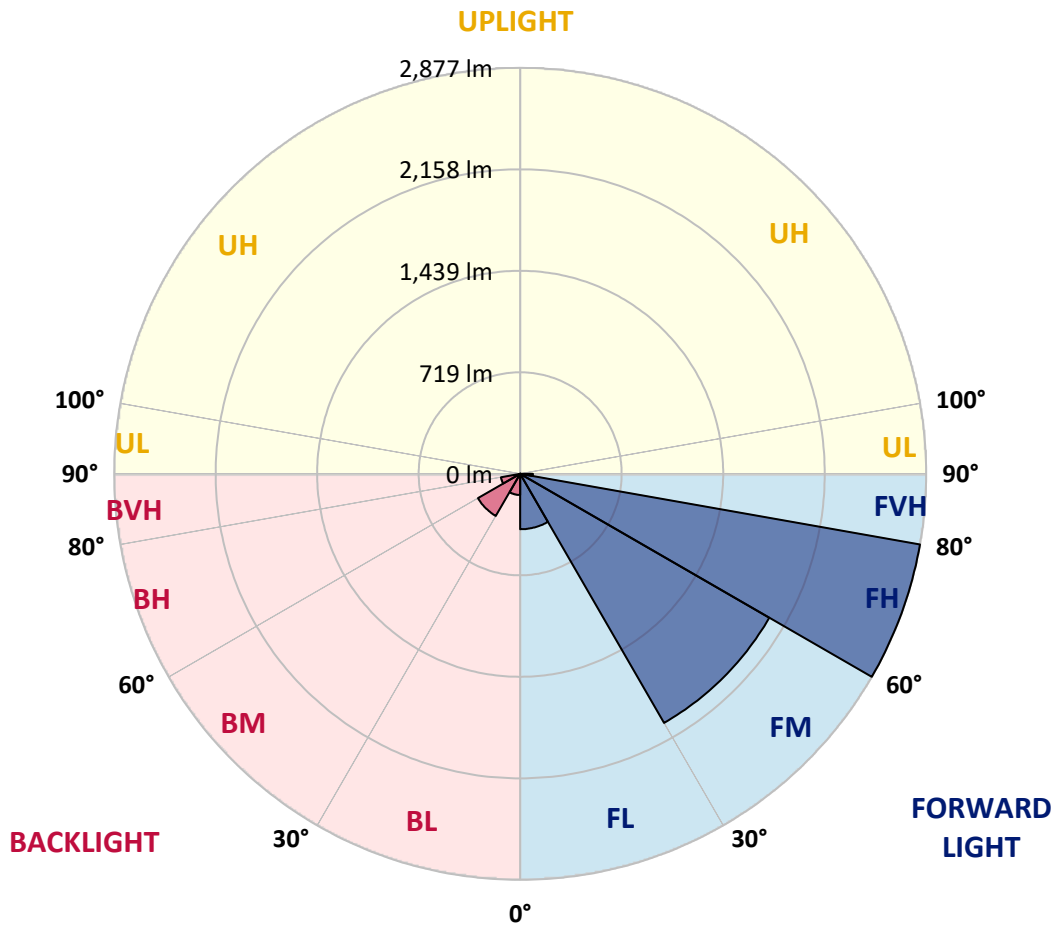
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 393.1  | 6.5       |                         |      |         |
| FM (30°-60°)   | 2038.6 | 33.8      |                         |      |         |
| FH (60°-80°)   | 2877.4 | 47.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 90.9   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 150.2  | 2.5       | B1/500                  |      |         |
| BM (30°-60°)   | 344.8  | 5.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 138.3  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.8    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 661.0  | 661.0  | 661.0  | 661.0  | 661.0  | 661.0  | 661.0  | 661.0  | 661.0  | 661.0  |
| 2.5°  | 722.0  | 723.2  | 722.4  | 717.5  | 709.2  | 704.7  | 702.2  | 694.0  | 688.6  | 679.2  |
| 5°    | 788.3  | 793.2  | 790.4  | 780.5  | 764.8  | 753.7  | 750.4  | 733.5  | 718.3  | 700.6  |
| 7.5°  | 858.7  | 861.2  | 855.8  | 843.1  | 822.1  | 803.1  | 800.2  | 776.8  | 752.5  | 725.3  |
| 10°   | 919.7  | 922.6  | 914.3  | 895.8  | 871.9  | 848.4  | 844.3  | 818.4  | 789.5  | 756.2  |
| 12.5° | 970.8  | 973.6  | 962.9  | 940.7  | 914.3  | 890.0  | 885.9  | 858.7  | 827.0  | 790.0  |
| 15°   | 1009.5 | 1014.8 | 1000.4 | 976.5  | 948.1  | 923.8  | 921.7  | 895.0  | 864.1  | 822.9  |
| 17.5° | 1032.1 | 1037.5 | 1023.9 | 995.1  | 970.8  | 950.2  | 947.7  | 925.5  | 896.6  | 857.1  |
| 20°   | 1035.8 | 1040.8 | 1026.4 | 1001.2 | 981.1  | 964.6  | 963.3  | 947.3  | 926.3  | 888.4  |
| 22.5° | 1024.7 | 1030.9 | 1017.7 | 997.5  | 983.5  | 974.9  | 973.2  | 964.2  | 952.2  | 920.1  |
| 25°   | 1013.2 | 1018.1 | 1008.2 | 990.5  | 983.1  | 982.3  | 983.5  | 981.9  | 979.4  | 952.2  |
| 27.5° | 1012.4 | 1017.7 | 1006.6 | 989.7  | 985.6  | 994.2  | 995.5  | 1003.3 | 1005.4 | 981.5  |
| 30°   | 1019.4 | 1023.1 | 1012.4 | 994.6  | 992.6  | 1012.4 | 1012.8 | 1026.8 | 1030.1 | 1006.2 |
| 32.5° | 1034.6 | 1038.7 | 1028.0 | 1002.1 | 999.2  | 1026.8 | 1028.0 | 1046.5 | 1051.9 | 1032.5 |
| 35°   | 1070.4 | 1075.4 | 1063.0 | 1022.7 | 1012.4 | 1040.4 | 1044.1 | 1065.9 | 1076.6 | 1060.5 |
| 37.5° | 1159.8 | 1145.4 | 1128.5 | 1064.2 | 1042.4 | 1061.8 | 1068.0 | 1093.5 | 1112.4 | 1093.9 |
| 40°   | 1381.8 | 1336.5 | 1283.8 | 1135.1 | 1095.1 | 1107.5 | 1112.4 | 1138.0 | 1163.9 | 1145.8 |
| 42.5° | 1715.0 | 1661.4 | 1576.6 | 1298.2 | 1174.6 | 1180.8 | 1184.5 | 1206.8 | 1243.4 | 1229.0 |
| 45°   | 2011.9 | 1992.6 | 1906.1 | 1576.6 | 1323.3 | 1292.8 | 1297.4 | 1308.9 | 1362.8 | 1357.5 |
| 47.5° | 2240.1 | 2229.0 | 2162.3 | 1896.2 | 1574.5 | 1430.0 | 1442.8 | 1448.1 | 1525.9 | 1544.9 |
| 50°   | 2415.6 | 2411.4 | 2351.7 | 2180.4 | 1902.8 | 1632.2 | 1636.7 | 1625.2 | 1741.8 | 1788.7 |
| 52.5° | 2581.1 | 2595.1 | 2551.1 | 2444.4 | 2253.3 | 1897.0 | 1896.2 | 1841.8 | 1999.2 | 2070.0 |
| 55°   | 2730.6 | 2735.6 | 2740.1 | 2713.8 | 2605.8 | 2198.5 | 2190.7 | 2101.7 | 2297.8 | 2371.1 |
| 57.5° | 2871.1 | 2873.1 | 2913.5 | 2967.5 | 2972.8 | 2522.2 | 2507.8 | 2401.2 | 2624.0 | 2676.3 |
| 60°   | 2965.4 | 2974.9 | 3060.1 | 3210.0 | 3275.5 | 2856.3 | 2848.4 | 2739.7 | 2955.9 | 2980.2 |
| 62.5° | 2829.5 | 2887.1 | 3102.1 | 3399.5 | 3561.4 | 3226.5 | 3222.8 | 3120.7 | 3305.2 | 3285.4 |
| 65°   | 2290.4 | 2388.0 | 2766.1 | 3527.6 | 3841.8 | 3640.0 | 3645.4 | 3536.7 | 3663.9 | 3599.7 |
| 67.5° | 1602.1 | 1705.1 | 2152.4 | 3537.9 | 4155.3 | 4125.6 | 4156.5 | 3986.0 | 4044.9 | 3900.7 |
| 70°   | 1107.9 | 1161.0 | 1452.2 | 3316.3 | 4399.5 | 4794.5 | 4793.7 | 4537.9 | 4423.8 | 4037.9 |
| 72.5° | 745.1  | 772.7  | 943.2  | 2631.0 | 4219.9 | 5191.9 | 5168.0 | 4959.6 | 4551.5 | 3776.4 |
| 75°   | 314.3  | 334.4  | 436.6  | 1478.6 | 3338.5 | 4750.0 | 4685.3 | 4383.0 | 4044.1 | 2973.6 |
| 77.5° | 99.7   | 108.3  | 172.2  | 529.2  | 1839.0 | 3570.4 | 3502.1 | 2737.2 | 2710.5 | 1491.8 |
| 80°   | 47.4   | 55.2   | 96.8   | 212.5  | 723.6  | 1941.9 | 1932.5 | 1241.8 | 1166.0 | 402.8  |
| 82.5° | 20.6   | 24.3   | 53.5   | 113.7  | 323.7  | 692.8  | 706.8  | 422.6  | 349.7  | 152.8  |
| 85°   | 6.6    | 8.6    | 24.7   | 52.3   | 136.7  | 172.2  | 170.1  | 100.5  | 140.9  | 83.2   |
| 87.5° | 0.0    | 0.0    | 8.2    | 11.9   | 14.0   | 9.9    | 11.1   | 8.6    | 39.1   | 23.1   |
| 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°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 661.0  | 0°    | 661.0  | 661.0  | 661.0 | 661.0 | 661.0 | 661.0 | 661.0 | 661.0 | 661.0 | 661.0 |
| 669.3  | 2.5°  | 664.3  | 657.7  | 646.2 | 635.5 | 626.0 | 616.6 | 610.8 | 602.6 | 601.7 | 601.7 |
| 680.0  | 5°    | 668.9  | 658.2  | 637.6 | 615.7 | 590.6 | 566.7 | 542.8 | 519.8 | 512.4 | 507.0 |
| 697.3  | 7.5°  | 682.0  | 665.2  | 632.6 | 591.0 | 543.2 | 490.9 | 454.3 | 414.7 | 399.5 | 391.3 |
| 720.3  | 10°   | 701.0  | 677.9  | 628.5 | 555.6 | 478.2 | 406.9 | 354.6 | 311.8 | 295.3 | 288.3 |
| 745.5  | 12.5° | 722.0  | 693.6  | 621.1 | 511.5 | 406.9 | 321.7 | 270.6 | 250.8 | 248.4 | 248.4 |
| 775.5  | 15°   | 747.1  | 712.5  | 608.3 | 459.6 | 332.4 | 254.5 | 236.4 | 237.2 | 239.7 | 241.4 |
| 804.8  | 17.5° | 773.1  | 732.7  | 588.1 | 401.6 | 266.5 | 229.0 | 229.4 | 230.6 | 232.7 | 234.3 |
| 836.5  | 20°   | 801.1  | 752.9  | 561.4 | 339.8 | 228.6 | 221.6 | 222.8 | 224.1 | 225.7 | 226.5 |
| 866.1  | 22.5° | 831.1  | 771.8  | 529.7 | 279.2 | 215.8 | 215.4 | 215.8 | 217.1 | 219.1 | 219.1 |
| 900.7  | 25°   | 863.3  | 792.8  | 493.4 | 235.2 | 209.2 | 209.2 | 210.0 | 210.9 | 212.5 | 212.5 |
| 934.1  | 27.5° | 896.2  | 812.2  | 455.1 | 212.1 | 203.5 | 203.0 | 203.0 | 204.3 | 205.1 | 205.5 |
| 967.1  | 30°   | 932.5  | 834.8  | 416.8 | 207.2 | 198.9 | 196.9 | 195.6 | 196.5 | 197.3 | 197.7 |
| 1001.6 | 32.5° | 969.5  | 856.7  | 382.6 | 209.2 | 194.4 | 190.7 | 186.6 | 185.7 | 185.7 | 187.4 |
| 1037.5 | 35°   | 1010.7 | 880.6  | 356.3 | 216.2 | 191.9 | 181.6 | 175.0 | 171.3 | 171.7 | 174.2 |
| 1080.3 | 37.5° | 1060.1 | 909.4  | 336.9 | 222.4 | 190.3 | 171.3 | 160.6 | 156.1 | 153.2 | 156.1 |
| 1139.2 | 40°   | 1124.8 | 951.8  | 322.9 | 227.3 | 188.2 | 159.4 | 145.0 | 137.6 | 132.2 | 133.9 |
| 1230.6 | 42.5° | 1219.9 | 1018.5 | 317.5 | 227.8 | 183.7 | 145.4 | 128.9 | 119.0 | 111.2 | 111.6 |
| 1368.2 | 45°   | 1353.4 | 1124.0 | 345.1 | 222.4 | 173.8 | 130.1 | 112.0 | 98.8  | 93.9  | 92.7  |
| 1573.7 | 47.5° | 1536.2 | 1277.6 | 409.0 | 211.3 | 159.4 | 115.3 | 95.6  | 84.4  | 80.7  | 78.7  |
| 1843.5 | 50°   | 1781.3 | 1474.9 | 479.8 | 198.9 | 145.0 | 101.3 | 82.0  | 75.0  | 72.5  | 70.4  |
| 2163.5 | 52.5° | 2065.5 | 1675.0 | 537.9 | 186.6 | 130.6 | 89.0  | 73.3  | 69.2  | 67.1  | 65.5  |
| 2472.4 | 55°   | 2326.2 | 1813.0 | 534.6 | 173.4 | 116.6 | 79.1  | 67.1  | 64.7  | 62.2  | 60.5  |
| 2738.5 | 57.5° | 2488.5 | 1832.4 | 440.7 | 159.0 | 100.5 | 71.3  | 61.4  | 59.7  | 56.8  | 54.8  |
| 2968.7 | 60°   | 2563.0 | 1722.0 | 308.9 | 140.0 | 84.4  | 63.8  | 55.2  | 54.4  | 50.7  | 47.8  |
| 3186.6 | 62.5° | 2576.6 | 1516.9 | 205.9 | 116.6 | 70.4  | 56.8  | 49.0  | 47.8  | 42.8  | 37.9  |
| 3363.7 | 65°   | 2521.4 | 1223.6 | 142.5 | 91.0  | 60.1  | 49.4  | 42.0  | 39.5  | 34.2  | 29.2  |
| 3405.7 | 67.5° | 2346.8 | 859.1  | 99.3  | 65.5  | 51.1  | 39.1  | 33.4  | 32.5  | 28.4  | 24.3  |
| 3191.5 | 70°   | 2026.8 | 489.7  | 66.3  | 49.0  | 40.4  | 26.8  | 26.4  | 27.2  | 23.1  | 19.8  |
| 2607.5 | 72.5° | 1554.0 | 224.1  | 41.2  | 35.8  | 27.6  | 18.1  | 21.0  | 21.4  | 17.7  | 14.8  |
| 1626.9 | 75°   | 914.7  | 96.0   | 25.9  | 23.1  | 14.0  | 11.9  | 15.2  | 15.7  | 11.9  | 9.5   |
| 594.7  | 77.5° | 311.4  | 36.2   | 16.5  | 13.6  | 7.0   | 6.6   | 9.9   | 9.9   | 6.6   | 3.7   |
| 119.4  | 80°   | 70.8   | 13.6   | 8.2   | 5.4   | 3.3   | 2.9   | 3.3   | 2.9   | 1.6   | 0.4   |
| 36.7   | 82.5° | 20.2   | 5.4    | 3.3   | 2.1   | 1.2   | 1.2   | 0.4   | 0.0   | 0.0   | 0.0   |
| 12.8   | 85°   | 5.8    | 2.5    | 0.8   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4.5    | 87.5° | 2.5    | 0.4    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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> |
| 661.0       |
| 603.8       |
| 509.5       |
| 392.5       |
| 288.3       |
| 248.4       |
| 241.4       |
| 234.3       |
| 226.9       |
| 219.9       |
| 212.9       |
| 205.9       |
| 198.5       |
| 188.6       |
| 175.5       |
| 155.3       |
| 133.0       |
| 110.0       |
| 91.0        |
| 77.4        |
| 70.0        |
| 65.1        |
| 59.7        |
| 54.4        |
| 47.0        |
| 35.4        |
| 27.6        |
| 23.1        |
| 18.1        |
| 13.2        |
| 8.2         |
| 2.9         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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