

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: STREETWORKS

Report Number: P939509

Luminaire Tested: **GLAN-SB2A-850-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P939509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2A-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8481 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 57.3  
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

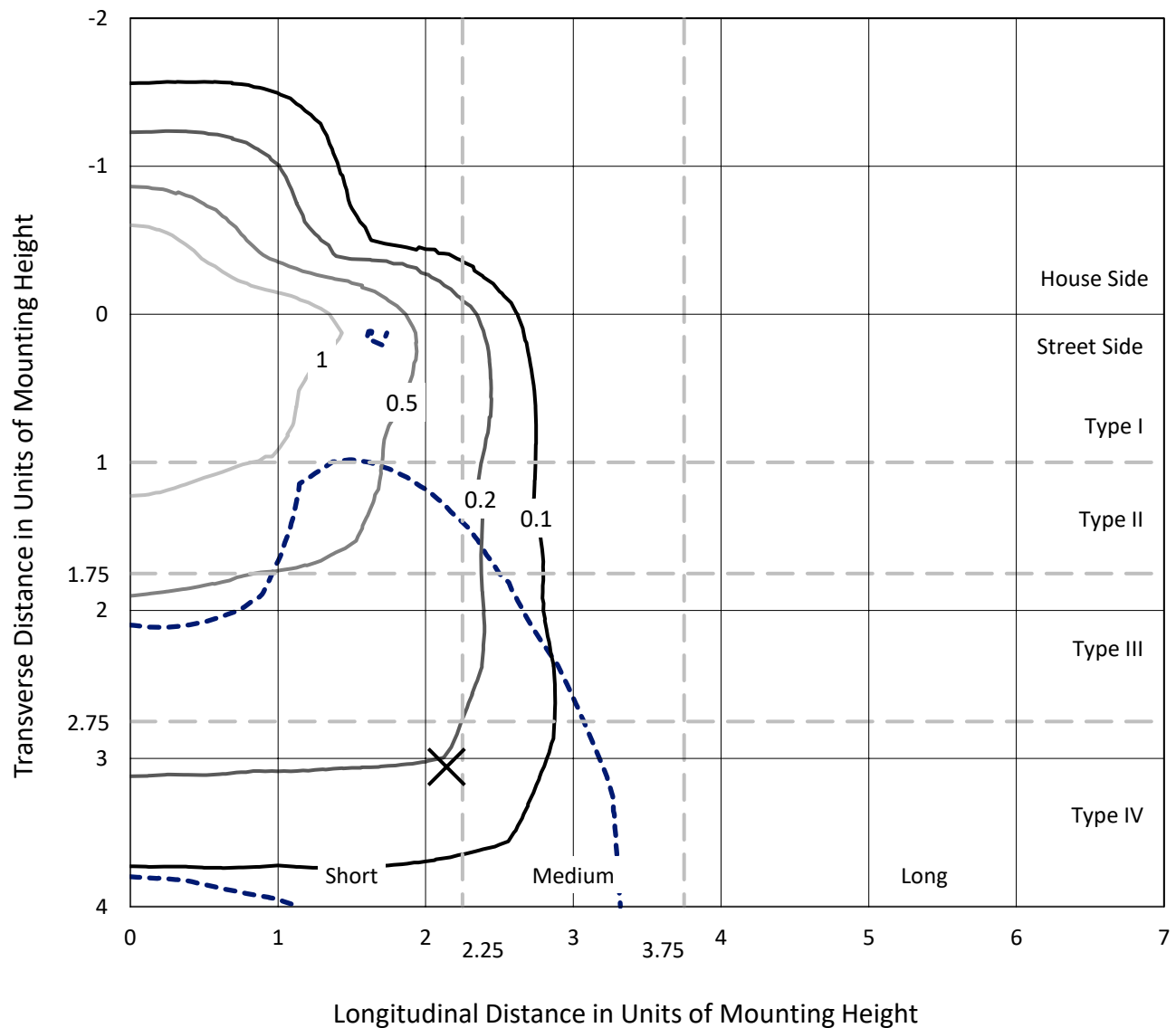


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

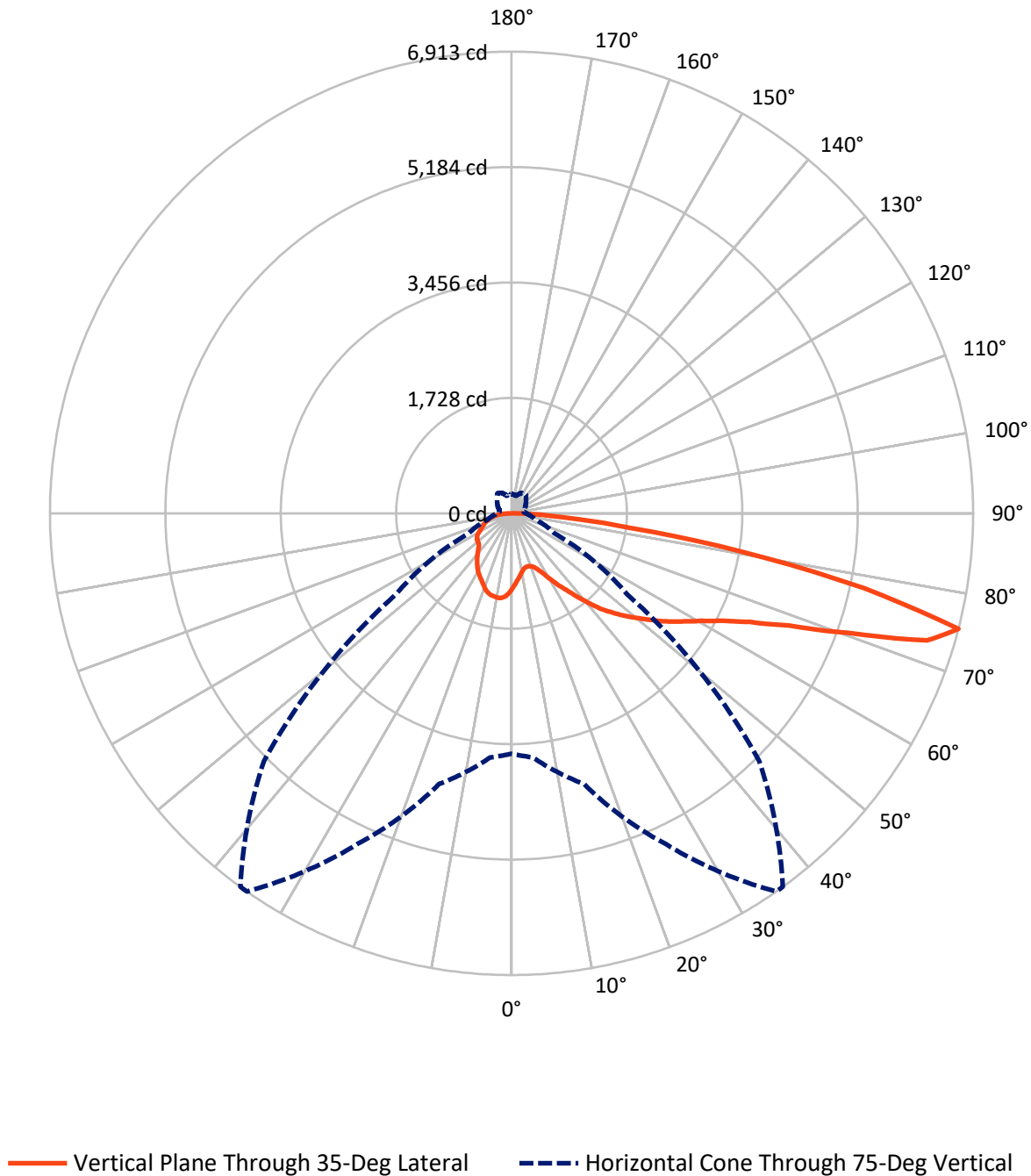


Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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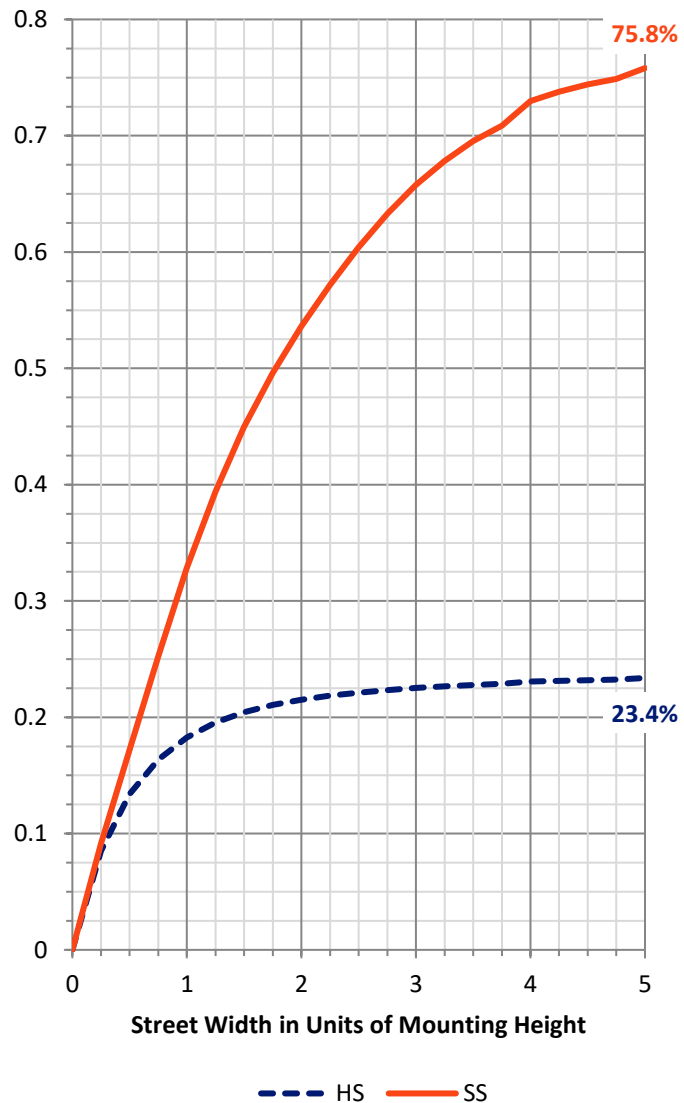
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2018.3   | 0.0    | 2018.3 |
|                    | % Fixture | 23.8     | 0.0    | 23.8   |
| <b>Street Side</b> | Lumens    | 6462.7   | 0.0    | 6462.7 |
|                    | % Fixture | 76.2     | 0.0    | 76.2   |
| <b>Total</b>       | Lumens    | 8481.0   | 0.0    | 8481.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.0  | 1.3       |
| 10°-20°   | 308.6  | 3.6       |
| 20°-30°   | 518.3  | 6.1       |
| 30°-40°   | 805.5  | 9.5       |
| 40°-50°   | 1195.6 | 14.1      |
| 50°-60°   | 1650.6 | 19.5      |
| 60°-70°   | 2002.5 | 23.6      |
| 70°-80°   | 1654.9 | 19.5      |
| 80°-90°   | 238.0  | 2.8       |
| 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°    | 8481.0 | 100.0     |
| 0°-180°   | 8481.0 | 100.0     |

**Coefficient of Utilization**



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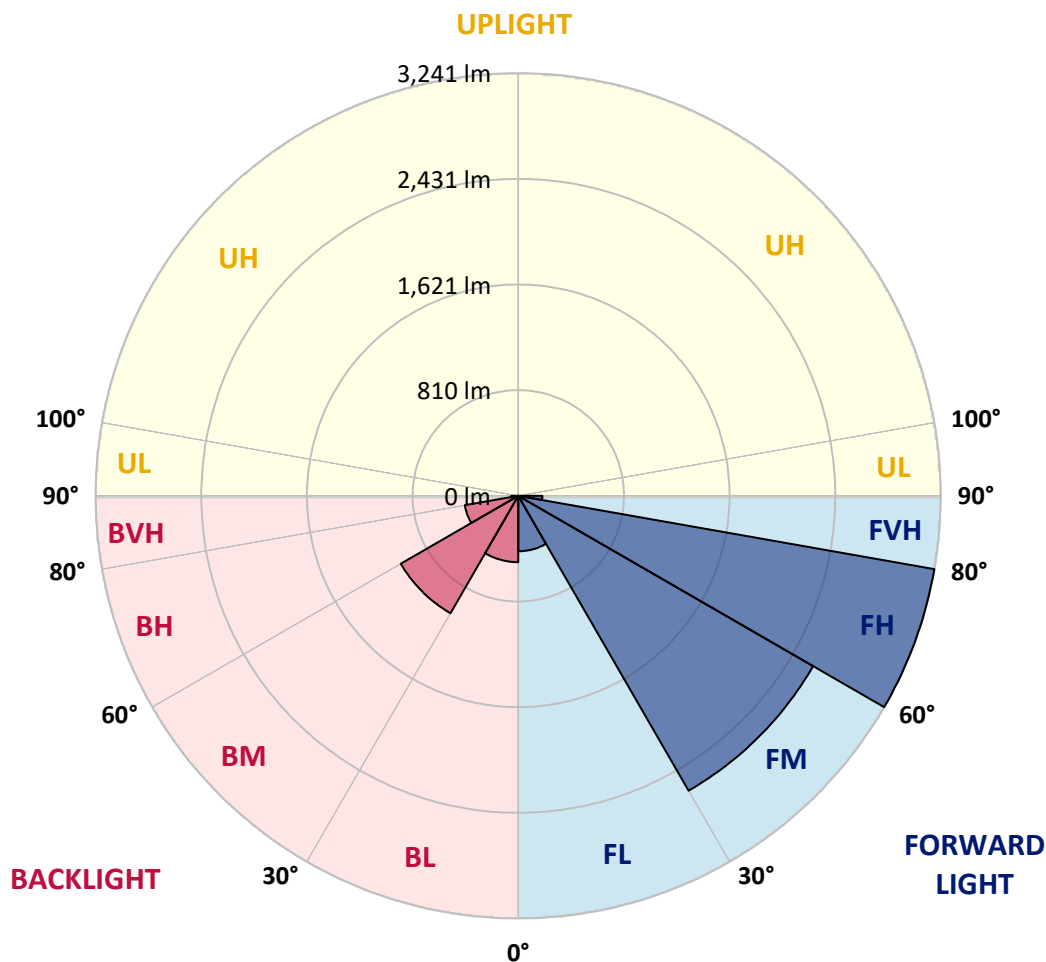
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 425.3  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 2611.7 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 3241.3 | 38.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 184.4  | 2.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 508.6  | 6.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1039.9 | 12.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 416.1  | 4.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 53.6   | 0.6       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 36°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 |
| 2.5°  | 1042.1 | 1048.5 | 1051.3 | 1049.9 | 1056.8 | 1055.9 | 1065.5 | 1077.4 | 1093.9 | 1110.0 |
| 5°    | 961.9  | 968.8  | 974.7  | 980.2  | 993.5  | 997.7  | 1012.8 | 1035.7 | 1066.0 | 1096.7 |
| 7.5°  | 887.2  | 893.1  | 902.3  | 912.4  | 934.8  | 939.0  | 964.2  | 999.9  | 1042.1 | 1087.1 |
| 10°   | 826.2  | 832.1  | 841.8  | 853.2  | 881.2  | 886.2  | 918.3  | 966.0  | 1021.0 | 1077.9 |
| 12.5° | 800.0  | 801.9  | 807.4  | 818.8  | 843.1  | 846.4  | 881.7  | 936.2  | 1000.4 | 1071.0 |
| 15°   | 798.7  | 802.3  | 802.8  | 808.8  | 828.9  | 830.3  | 862.9  | 917.0  | 987.6  | 1069.6 |
| 17.5° | 812.4  | 815.2  | 811.0  | 814.7  | 831.7  | 834.0  | 859.6  | 907.8  | 983.4  | 1075.6 |
| 20°   | 849.1  | 851.4  | 839.0  | 834.0  | 846.4  | 848.2  | 873.4  | 913.7  | 987.6  | 1088.0 |
| 22.5° | 927.0  | 928.4  | 898.2  | 877.5  | 878.4  | 879.4  | 901.4  | 938.0  | 1003.6 | 1110.4 |
| 25°   | 1048.5 | 1047.6 | 999.5  | 959.6  | 936.7  | 931.6  | 946.3  | 977.5  | 1030.7 | 1140.2 |
| 27.5° | 1190.7 | 1183.8 | 1135.7 | 1076.1 | 1026.1 | 1018.7 | 1015.5 | 1028.8 | 1069.2 | 1179.7 |
| 30°   | 1351.1 | 1344.7 | 1292.9 | 1215.0 | 1145.7 | 1133.8 | 1103.6 | 1096.7 | 1126.5 | 1233.3 |
| 32.5° | 1527.2 | 1523.1 | 1461.2 | 1366.7 | 1274.1 | 1260.4 | 1209.5 | 1191.1 | 1214.5 | 1314.5 |
| 35°   | 1674.8 | 1671.2 | 1619.8 | 1522.6 | 1409.4 | 1392.4 | 1340.6 | 1320.0 | 1331.9 | 1418.5 |
| 37.5° | 1808.2 | 1806.4 | 1762.4 | 1685.8 | 1568.9 | 1548.3 | 1490.1 | 1483.2 | 1480.9 | 1555.6 |
| 40°   | 1932.0 | 1927.4 | 1881.6 | 1841.3 | 1754.6 | 1735.8 | 1684.5 | 1678.5 | 1661.1 | 1724.3 |
| 42.5° | 2069.1 | 2057.2 | 1990.7 | 1971.9 | 1948.5 | 1932.9 | 1902.2 | 1903.1 | 1864.6 | 1914.6 |
| 45°   | 2181.0 | 2174.1 | 2105.8 | 2094.8 | 2120.0 | 2113.6 | 2140.2 | 2147.1 | 2072.3 | 2114.0 |
| 47.5° | 2301.1 | 2294.7 | 2236.9 | 2229.1 | 2297.4 | 2299.3 | 2393.3 | 2395.6 | 2275.0 | 2321.3 |
| 50°   | 2449.2 | 2440.0 | 2382.7 | 2392.3 | 2468.9 | 2475.8 | 2647.7 | 2632.1 | 2461.6 | 2531.7 |
| 52.5° | 2546.9 | 2552.4 | 2540.0 | 2555.6 | 2660.1 | 2666.5 | 2898.0 | 2858.2 | 2646.3 | 2739.4 |
| 55°   | 2618.8 | 2629.8 | 2668.3 | 2704.1 | 2861.8 | 2868.2 | 3134.2 | 3073.2 | 2799.5 | 2932.0 |
| 57.5° | 2711.4 | 2695.9 | 2767.8 | 2837.5 | 3053.5 | 3070.4 | 3363.9 | 3280.4 | 2935.2 | 3097.9 |
| 60°   | 2844.4 | 2833.4 | 2889.3 | 2992.5 | 3268.0 | 3295.1 | 3606.9 | 3467.0 | 3034.7 | 3229.5 |
| 62.5° | 3114.0 | 3086.5 | 3095.2 | 3186.4 | 3538.5 | 3574.3 | 3881.0 | 3629.8 | 3084.2 | 3280.9 |
| 65°   | 3517.0 | 3469.8 | 3425.8 | 3489.0 | 3919.5 | 3954.8 | 4190.5 | 3757.7 | 3065.8 | 3181.4 |
| 67.5° | 4024.5 | 3977.8 | 3923.7 | 3983.3 | 4480.7 | 4508.7 | 4572.4 | 3829.7 | 2921.4 | 2798.1 |
| 70°   | 4443.1 | 4425.7 | 4490.3 | 4735.6 | 5377.0 | 5378.0 | 5062.1 | 3770.1 | 2525.8 | 1983.8 |
| 72.5° | 4387.6 | 4377.1 | 4717.7 | 5476.1 | 6506.7 | 6482.4 | 5525.6 | 3318.9 | 1701.4 | 895.0  |
| 75°   | 3599.5 | 3667.8 | 4195.5 | 5462.8 | 6912.5 | 6909.3 | 5241.8 | 2109.9 | 703.8  | 370.9  |
| 77.5° | 1930.2 | 2038.4 | 2723.8 | 4033.2 | 5396.3 | 5477.4 | 3685.3 | 738.2  | 302.1  | 237.5  |
| 80°   | 629.5  | 723.9  | 1085.7 | 2053.5 | 3506.4 | 3491.3 | 1579.5 | 289.8  | 206.8  | 168.3  |
| 82.5° | 267.3  | 278.3  | 485.1  | 969.7  | 1799.5 | 1771.6 | 503.0  | 166.4  | 145.3  | 115.1  |
| 85°   | 104.5  | 116.9  | 214.1  | 448.4  | 779.4  | 762.5  | 181.6  | 82.5   | 93.1   | 75.2   |
| 87.5° | 34.4   | 41.7   | 76.6   | 153.6  | 242.5  | 233.8  | 44.5   | 28.4   | 40.3   | 34.4   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1130.2 | 0°    | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1130.2 |
| 1133.4 | 2.5°  | 1139.8 | 1147.1 | 1155.8 | 1168.7 | 1179.7 | 1188.8 | 1198.5 | 1204.4 | 1206.7 | 1213.6 |
| 1135.2 | 5°    | 1148.0 | 1164.1 | 1185.6 | 1206.7 | 1227.3 | 1239.7 | 1250.7 | 1256.2 | 1261.3 | 1264.9 |
| 1140.2 | 7.5°  | 1161.8 | 1182.4 | 1216.3 | 1243.9 | 1261.3 | 1271.4 | 1278.7 | 1276.9 | 1278.7 | 1279.6 |
| 1145.7 | 10°   | 1173.7 | 1202.6 | 1242.9 | 1269.1 | 1282.4 | 1282.8 | 1281.0 | 1274.6 | 1271.4 | 1271.8 |
| 1154.0 | 12.5° | 1187.9 | 1220.0 | 1263.6 | 1285.6 | 1289.2 | 1279.2 | 1271.4 | 1260.4 | 1256.2 | 1254.4 |
| 1166.4 | 15°   | 1207.2 | 1243.9 | 1286.0 | 1294.3 | 1285.1 | 1272.3 | 1259.0 | 1241.1 | 1231.9 | 1224.6 |
| 1187.5 | 17.5° | 1230.6 | 1270.9 | 1303.5 | 1297.5 | 1277.8 | 1256.7 | 1235.1 | 1208.1 | 1189.3 | 1181.5 |
| 1216.3 | 20°   | 1263.1 | 1299.3 | 1316.8 | 1290.6 | 1260.8 | 1228.7 | 1192.0 | 1159.0 | 1141.6 | 1133.8 |
| 1253.0 | 22.5° | 1302.5 | 1337.4 | 1329.6 | 1278.7 | 1236.5 | 1185.2 | 1139.3 | 1115.0 | 1106.3 | 1100.8 |
| 1300.2 | 25°   | 1349.8 | 1379.6 | 1338.8 | 1261.3 | 1196.6 | 1127.4 | 1092.1 | 1084.3 | 1080.2 | 1076.1 |
| 1358.0 | 27.5° | 1411.2 | 1427.2 | 1345.6 | 1235.6 | 1134.3 | 1066.0 | 1053.1 | 1054.5 | 1053.1 | 1046.2 |
| 1438.2 | 30°   | 1492.3 | 1489.1 | 1352.1 | 1193.9 | 1062.8 | 1010.5 | 1011.4 | 1017.4 | 1018.3 | 1013.7 |
| 1550.1 | 32.5° | 1599.2 | 1566.6 | 1355.3 | 1139.8 | 994.4  | 961.9  | 962.8  | 969.2  | 973.8  | 966.0  |
| 1696.4 | 35°   | 1728.5 | 1656.9 | 1350.2 | 1071.9 | 941.7  | 915.6  | 908.7  | 910.5  | 911.9  | 904.6  |
| 1873.8 | 37.5° | 1879.3 | 1758.3 | 1327.8 | 996.7  | 898.2  | 870.2  | 855.5  | 843.1  | 835.8  | 828.9  |
| 2074.6 | 40°   | 2044.8 | 1868.8 | 1286.5 | 923.4  | 849.6  | 822.1  | 800.0  | 776.7  | 751.9  | 742.7  |
| 2287.4 | 42.5° | 2218.1 | 1982.5 | 1236.5 | 853.2  | 793.6  | 771.2  | 747.8  | 713.9  | 676.7  | 657.9  |
| 2508.3 | 45°   | 2397.8 | 2098.9 | 1187.5 | 784.0  | 736.3  | 726.7  | 699.6  | 658.8  | 618.5  | 594.6  |
| 2729.8 | 47.5° | 2573.9 | 2209.0 | 1115.5 | 714.3  | 682.7  | 693.2  | 672.1  | 634.5  | 589.6  | 552.0  |
| 2949.4 | 50°   | 2742.2 | 2312.1 | 997.7  | 643.7  | 639.1  | 683.1  | 663.0  | 608.9  | 557.5  | 509.4  |
| 3164.9 | 52.5° | 2909.0 | 2395.6 | 846.8  | 579.5  | 615.7  | 680.4  | 651.0  | 591.4  | 528.6  | 478.2  |
| 3367.5 | 55°   | 3050.7 | 2438.6 | 701.5  | 524.5  | 581.8  | 657.0  | 636.8  | 570.8  | 487.8  | 434.2  |
| 3506.4 | 57.5° | 3131.4 | 2403.8 | 580.4  | 470.4  | 535.0  | 618.5  | 612.5  | 526.8  | 439.2  | 398.0  |
| 3533.5 | 60°   | 3096.6 | 2262.6 | 481.4  | 423.2  | 490.6  | 576.8  | 570.3  | 483.2  | 402.1  | 363.1  |
| 3388.6 | 62.5° | 2904.5 | 1993.5 | 403.0  | 381.9  | 450.2  | 534.1  | 528.2  | 449.8  | 373.7  | 336.1  |
| 3004.0 | 65°   | 2517.5 | 1621.6 | 342.0  | 347.5  | 409.4  | 482.8  | 491.5  | 421.8  | 351.2  | 314.5  |
| 2324.0 | 67.5° | 1920.1 | 1174.6 | 294.3  | 317.7  | 369.5  | 432.3  | 457.6  | 401.6  | 332.4  | 297.6  |
| 1344.7 | 70°   | 1094.4 | 667.1  | 254.0  | 288.8  | 334.2  | 385.6  | 431.4  | 385.6  | 312.2  | 283.3  |
| 503.9  | 72.5° | 414.9  | 306.3  | 219.6  | 260.0  | 300.3  | 346.2  | 402.5  | 360.4  | 288.8  | 267.3  |
| 260.4  | 75°   | 221.4  | 186.6  | 184.8  | 226.0  | 261.3  | 307.6  | 366.3  | 335.6  | 271.4  | 282.4  |
| 180.2  | 77.5° | 150.8  | 132.0  | 154.5  | 193.5  | 218.7  | 265.0  | 327.8  | 298.0  | 235.2  | 234.3  |
| 124.7  | 80°   | 104.5  | 93.5   | 125.6  | 155.9  | 169.2  | 222.8  | 286.1  | 255.8  | 191.6  | 178.8  |
| 77.0   | 82.5° | 62.8   | 61.0   | 94.0   | 116.5  | 119.7  | 171.9  | 237.0  | 214.6  | 156.8  | 136.6  |
| 45.8   | 85°   | 34.4   | 36.2   | 60.1   | 68.3   | 69.7   | 120.1  | 185.7  | 166.0  | 120.6  | 101.3  |
| 16.5   | 87.5° | 9.6    | 12.4   | 22.0   | 27.1   | 33.5   | 62.4   | 110.5  | 98.6   | 60.5   | 42.2   |
| 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°   |
|--------|
| 1130.2 |
| 1213.1 |
| 1265.9 |
| 1281.0 |
| 1272.7 |
| 1253.5 |
| 1226.9 |
| 1182.0 |
| 1132.9 |
| 1101.7 |
| 1076.1 |
| 1047.6 |
| 1016.0 |
| 969.7  |
| 909.6  |
| 833.5  |
| 746.9  |
| 660.2  |
| 592.8  |
| 547.9  |
| 505.2  |
| 472.7  |
| 429.6  |
| 392.5  |
| 357.6  |
| 330.1  |
| 308.6  |
| 292.1  |
| 279.7  |
| 263.6  |
| 291.6  |
| 215.9  |
| 171.0  |
| 137.5  |
| 102.2  |
| 42.2   |
| 0.0    |