

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: P946131

Luminaire Tested: **GLAN-SB1D-840-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-840-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9718 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
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

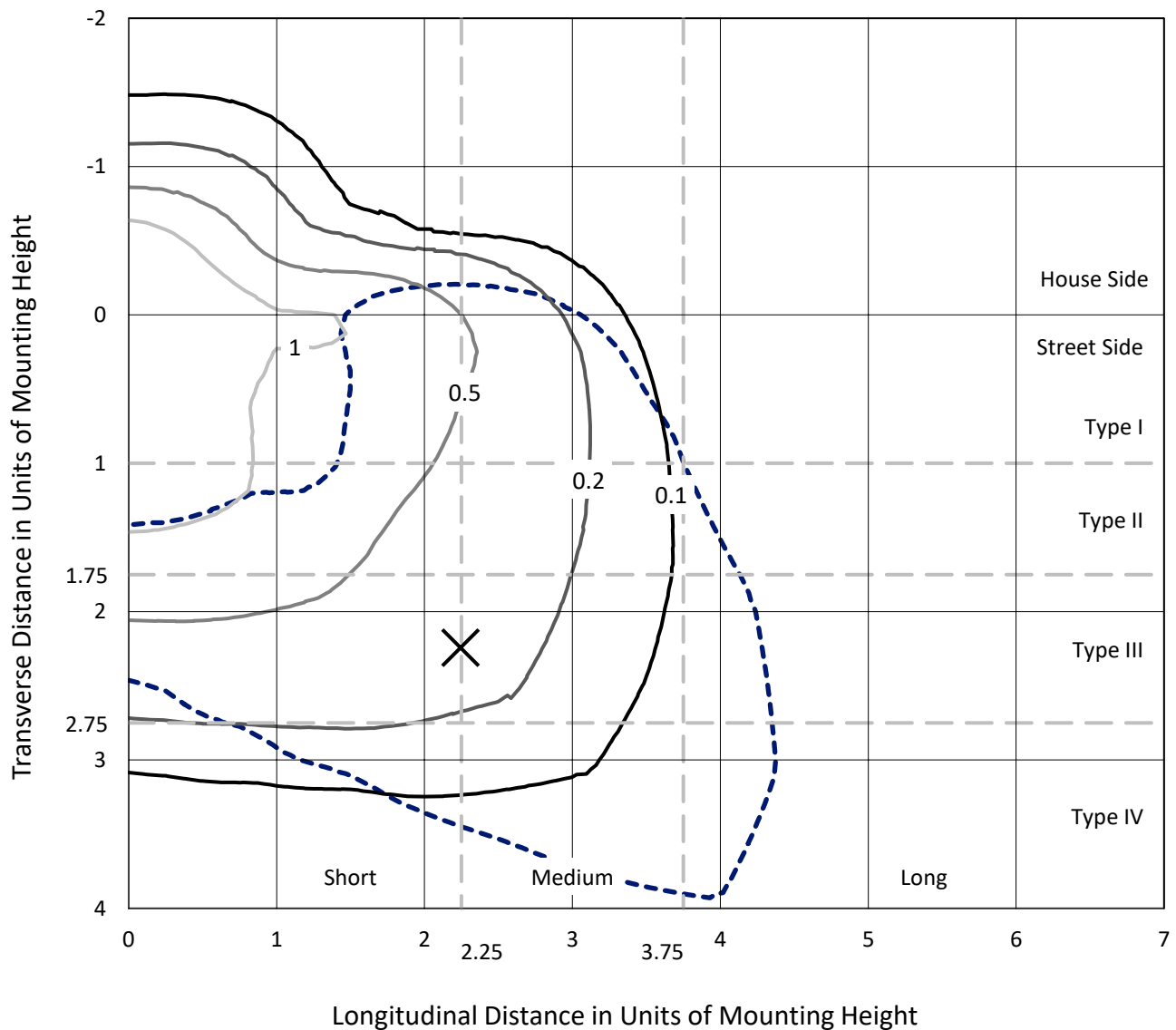


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## Iso-Footcandle Lines of Horizontal Illumination

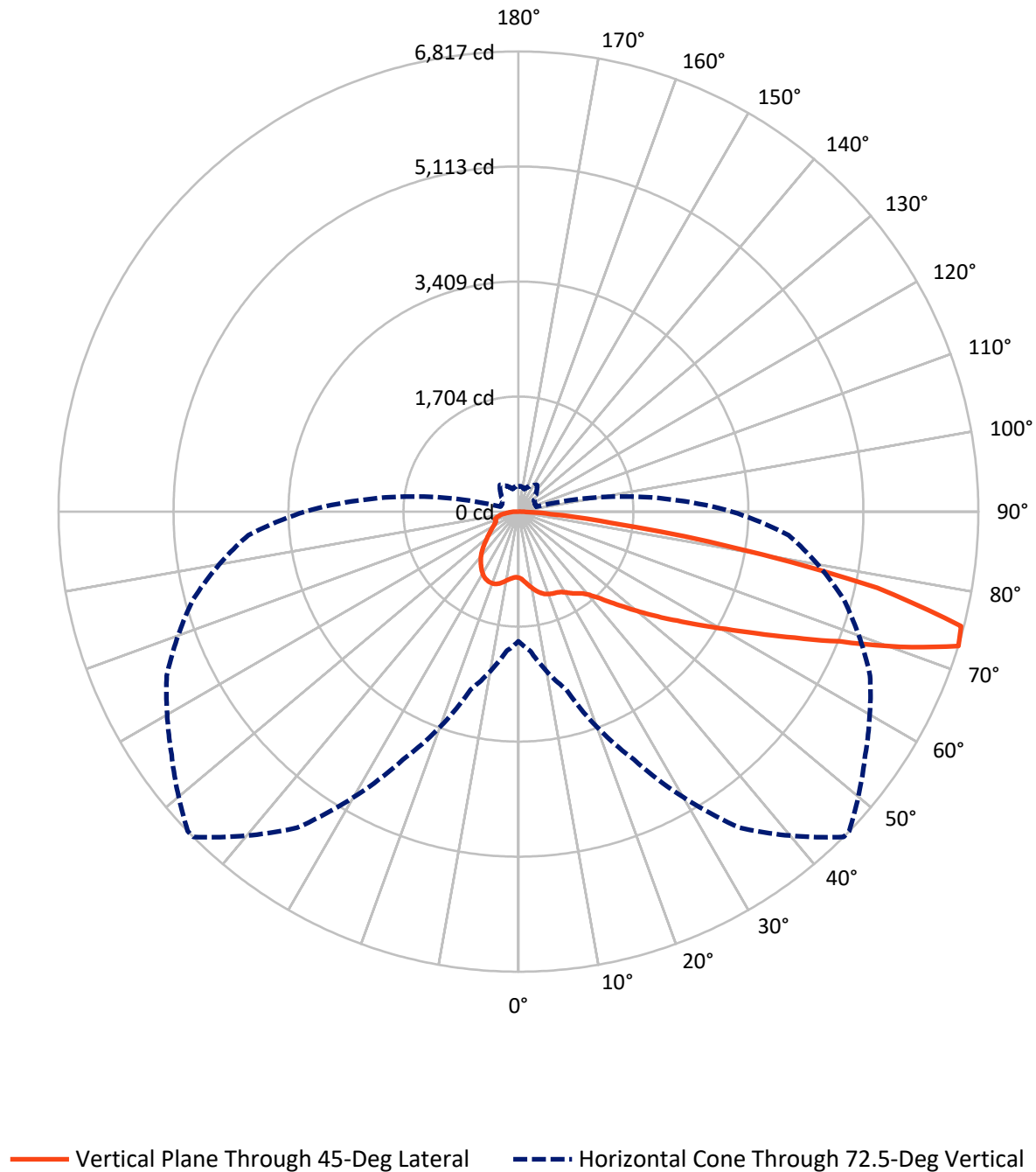
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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    | 2196.9   | 0.0    | 2196.9 |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 7521.1   | 0.0    | 7521.1 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 9718.0   | 0.0    | 9718.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.8   | 1.0       |
| 10°-20°   | 332.7  | 3.4       |
| 20°-30°   | 578.7  | 6.0       |
| 30°-40°   | 829.6  | 8.5       |
| 40°-50°   | 1168.2 | 12.0      |
| 50°-60°   | 1789.3 | 18.4      |
| 60°-70°   | 2592.0 | 26.7      |
| 70°-80°   | 2069.9 | 21.3      |
| 80°-90°   | 257.8  | 2.7       |
| 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°    | 9718.0 | 100.0     |
| 0°-180°   | 9718.0 | 100.0     |

**Coefficient of Utilization**



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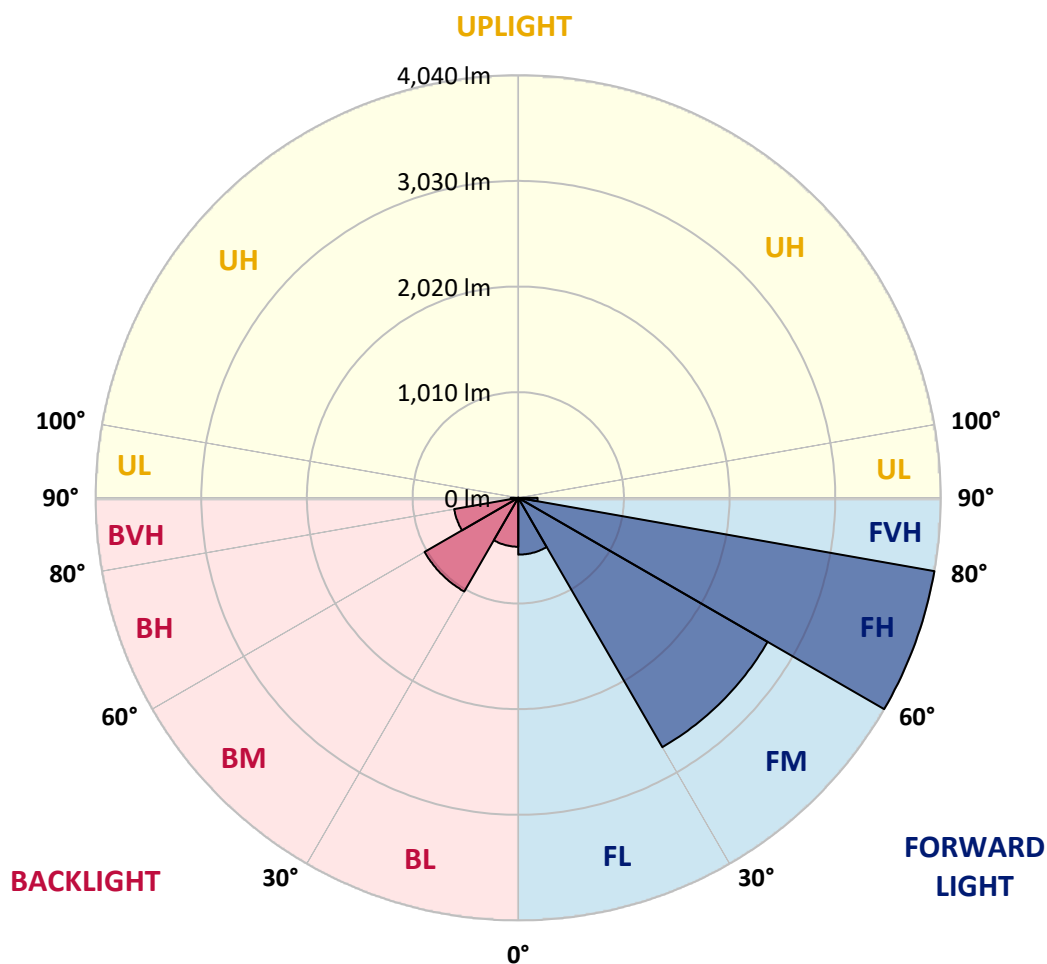
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 543.4  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2752.6 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 4040.1 | 41.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 184.9  | 1.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 467.7  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1034.4 | 10.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 621.9  | 6.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 72.8   | 0.7       |                         |      | 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°    | 45°    | 46°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  |
| 2.5°  | 1018.8 | 1025.4 | 1019.3 | 1013.6 | 1011.1 | 1004.4 | 1003.9 | 999.8  | 997.3  | 990.1  |
| 5°    | 1089.9 | 1098.6 | 1088.4 | 1077.1 | 1066.9 | 1050.5 | 1048.4 | 1036.7 | 1023.4 | 1008.0 |
| 7.5°  | 1170.3 | 1178.0 | 1166.2 | 1149.3 | 1131.4 | 1104.2 | 1103.7 | 1082.2 | 1061.2 | 1035.1 |
| 10°   | 1240.4 | 1250.7 | 1234.8 | 1211.8 | 1189.2 | 1158.5 | 1154.9 | 1130.4 | 1103.7 | 1069.9 |
| 12.5° | 1302.4 | 1309.5 | 1294.2 | 1266.0 | 1239.9 | 1209.2 | 1204.6 | 1177.5 | 1147.8 | 1109.4 |
| 15°   | 1351.5 | 1360.7 | 1340.2 | 1310.0 | 1282.4 | 1252.2 | 1248.1 | 1223.5 | 1193.8 | 1153.4 |
| 17.5° | 1383.8 | 1391.4 | 1370.5 | 1336.7 | 1310.0 | 1285.0 | 1281.9 | 1261.4 | 1235.3 | 1194.3 |
| 20°   | 1396.0 | 1404.2 | 1382.2 | 1347.9 | 1323.4 | 1303.9 | 1302.4 | 1287.5 | 1269.6 | 1232.2 |
| 22.5° | 1408.3 | 1416.0 | 1387.3 | 1351.5 | 1330.0 | 1317.7 | 1317.2 | 1307.5 | 1300.3 | 1269.6 |
| 25°   | 1458.0 | 1460.0 | 1421.6 | 1369.9 | 1339.2 | 1328.5 | 1328.0 | 1327.4 | 1330.5 | 1306.5 |
| 27.5° | 1501.0 | 1500.5 | 1467.7 | 1419.1 | 1371.5 | 1349.0 | 1348.4 | 1353.6 | 1363.3 | 1343.3 |
| 30°   | 1564.0 | 1558.3 | 1519.4 | 1468.7 | 1425.2 | 1390.4 | 1387.3 | 1382.7 | 1390.4 | 1374.5 |
| 32.5° | 1697.6 | 1679.7 | 1616.7 | 1526.6 | 1469.8 | 1443.1 | 1439.1 | 1410.4 | 1413.5 | 1403.7 |
| 35°   | 1889.0 | 1865.5 | 1781.5 | 1636.1 | 1525.1 | 1487.2 | 1485.1 | 1448.8 | 1442.6 | 1433.9 |
| 37.5° | 2116.9 | 2087.7 | 1989.9 | 1794.8 | 1620.3 | 1538.4 | 1535.3 | 1502.5 | 1477.4 | 1468.2 |
| 40°   | 2345.7 | 2308.8 | 2227.9 | 1988.4 | 1760.5 | 1623.9 | 1614.1 | 1564.5 | 1535.8 | 1520.4 |
| 42.5° | 2567.9 | 2537.2 | 2468.0 | 2205.4 | 1933.6 | 1748.8 | 1727.3 | 1642.3 | 1620.8 | 1606.5 |
| 45°   | 2764.5 | 2736.8 | 2686.1 | 2437.3 | 2136.3 | 1918.7 | 1897.7 | 1759.0 | 1752.4 | 1752.4 |
| 47.5° | 2924.2 | 2918.0 | 2864.3 | 2673.8 | 2375.4 | 2112.2 | 2075.9 | 1921.3 | 1939.2 | 1966.9 |
| 50°   | 3101.3 | 3084.4 | 3027.1 | 2906.8 | 2656.4 | 2333.9 | 2304.2 | 2120.4 | 2187.5 | 2263.3 |
| 52.5° | 3264.1 | 3273.3 | 3209.3 | 3149.4 | 2973.8 | 2581.2 | 2529.0 | 2355.4 | 2500.3 | 2625.7 |
| 55°   | 3431.5 | 3432.0 | 3414.1 | 3405.9 | 3306.6 | 2854.6 | 2797.2 | 2638.0 | 2868.4 | 3024.0 |
| 57.5° | 3588.7 | 3589.7 | 3616.3 | 3688.5 | 3692.6 | 3169.9 | 3104.9 | 2985.1 | 3277.4 | 3436.1 |
| 60°   | 3728.9 | 3736.1 | 3808.8 | 3977.7 | 4032.0 | 3531.3 | 3469.9 | 3395.2 | 3700.3 | 3860.0 |
| 62.5° | 3776.0 | 3802.1 | 3963.9 | 4204.0 | 4367.3 | 3974.7 | 3914.3 | 3869.7 | 4144.6 | 4293.1 |
| 65°   | 3696.2 | 3756.1 | 4068.9 | 4390.9 | 4712.4 | 4501.5 | 4441.6 | 4392.9 | 4606.4 | 4746.2 |
| 67.5° | 3500.1 | 3577.4 | 4062.7 | 4586.9 | 5131.1 | 5135.2 | 5079.4 | 4965.3 | 5101.4 | 5155.2 |
| 70°   | 2983.6 | 3099.3 | 3704.9 | 4660.2 | 5611.8 | 6001.9 | 5948.2 | 5654.3 | 5595.5 | 5335.4 |
| 72.5° | 1922.3 | 2077.9 | 2728.1 | 4057.6 | 5718.8 | 6817.4 | 6814.4 | 6276.3 | 5751.6 | 4985.2 |
| 75°   | 701.4  | 796.6  | 1267.6 | 2546.9 | 4800.4 | 6776.0 | 6795.9 | 6169.9 | 5250.4 | 3850.8 |
| 77.5° | 255.5  | 279.5  | 413.6  | 978.8  | 2952.3 | 5436.8 | 5478.2 | 4932.5 | 3737.1 | 1932.6 |
| 80°   | 134.1  | 147.4  | 211.9  | 379.9  | 1265.0 | 3228.8 | 3293.8 | 2931.3 | 1756.5 | 582.1  |
| 82.5° | 74.2   | 80.4   | 118.8  | 206.3  | 569.8  | 1380.7 | 1419.6 | 1158.0 | 617.9  | 246.8  |
| 85°   | 39.9   | 42.5   | 55.8   | 112.6  | 278.5  | 478.7  | 489.4  | 346.1  | 246.2  | 144.9  |
| 87.5° | 11.8   | 14.3   | 18.4   | 35.8   | 109.0  | 107.5  | 110.1  | 68.6   | 97.3   | 73.2   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 980.4  | 0°    | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  | 980.4  |
| 988.0  | 2.5°  | 985.0  | 983.4  | 977.8  | 975.2  | 972.2  | 971.7  | 974.2  | 974.7  | 975.2  | 975.7  |
| 999.3  | 5°    | 994.2  | 989.1  | 983.9  | 980.9  | 981.9  | 982.4  | 987.5  | 991.1  | 993.7  | 995.7  |
| 1020.3 | 7.5°  | 1012.1 | 1008.0 | 999.3  | 998.8  | 1000.3 | 1004.9 | 1011.6 | 1019.8 | 1024.4 | 1028.0 |
| 1047.4 | 10°   | 1038.7 | 1031.0 | 1020.8 | 1022.3 | 1025.4 | 1032.1 | 1045.9 | 1052.5 | 1060.2 | 1066.9 |
| 1080.7 | 12.5° | 1065.9 | 1059.2 | 1047.4 | 1048.4 | 1053.6 | 1065.3 | 1078.6 | 1086.8 | 1092.0 | 1097.1 |
| 1116.5 | 15°   | 1101.2 | 1089.4 | 1076.6 | 1076.6 | 1085.8 | 1098.6 | 1104.8 | 1111.4 | 1114.5 | 1120.1 |
| 1154.9 | 17.5° | 1137.5 | 1122.2 | 1105.3 | 1104.2 | 1115.5 | 1121.7 | 1125.2 | 1126.3 | 1127.3 | 1133.4 |
| 1192.3 | 20°   | 1173.9 | 1157.0 | 1132.9 | 1130.9 | 1133.4 | 1132.4 | 1131.9 | 1130.9 | 1132.4 | 1140.1 |
| 1230.7 | 22.5° | 1209.7 | 1190.3 | 1157.0 | 1147.8 | 1140.6 | 1130.9 | 1130.4 | 1129.8 | 1130.9 | 1138.5 |
| 1272.2 | 25°   | 1251.7 | 1228.1 | 1183.6 | 1156.0 | 1131.9 | 1118.6 | 1120.1 | 1120.6 | 1121.7 | 1127.8 |
| 1315.2 | 27.5° | 1297.2 | 1271.1 | 1208.2 | 1153.4 | 1109.9 | 1100.7 | 1098.1 | 1099.6 | 1103.2 | 1112.9 |
| 1358.2 | 30°   | 1342.8 | 1312.1 | 1230.7 | 1143.2 | 1082.2 | 1069.4 | 1061.2 | 1064.8 | 1076.1 | 1085.8 |
| 1395.5 | 32.5° | 1384.3 | 1353.6 | 1248.6 | 1120.6 | 1046.9 | 1026.9 | 1016.2 | 1020.8 | 1032.1 | 1035.6 |
| 1437.0 | 35°   | 1432.9 | 1398.1 | 1256.3 | 1084.8 | 1008.5 | 977.8  | 963.5  | 956.8  | 962.4  | 958.9  |
| 1485.6 | 37.5° | 1487.2 | 1450.8 | 1255.3 | 1037.7 | 963.5  | 928.1  | 908.2  | 883.1  | 871.3  | 859.0  |
| 1557.3 | 40°   | 1567.5 | 1515.3 | 1243.0 | 980.9  | 907.7  | 875.4  | 839.6  | 797.1  | 770.5  | 746.4  |
| 1673.0 | 42.5° | 1677.1 | 1604.9 | 1220.5 | 918.4  | 844.7  | 814.5  | 765.9  | 716.2  | 674.2  | 634.3  |
| 1848.6 | 45°   | 1840.4 | 1722.2 | 1192.3 | 851.9  | 776.6  | 746.9  | 694.2  | 638.4  | 590.8  | 539.6  |
| 2097.9 | 47.5° | 2075.9 | 1879.8 | 1165.7 | 776.1  | 704.9  | 677.8  | 630.2  | 578.5  | 522.2  | 472.5  |
| 2458.3 | 50°   | 2399.4 | 2106.1 | 1141.1 | 702.4  | 634.3  | 613.8  | 575.9  | 523.2  | 466.4  | 426.4  |
| 2880.7 | 52.5° | 2811.0 | 2413.8 | 1130.9 | 631.2  | 568.2  | 560.6  | 530.4  | 481.2  | 427.5  | 393.7  |
| 3373.1 | 55°   | 3283.6 | 2781.9 | 1130.9 | 563.1  | 510.4  | 513.0  | 492.0  | 446.4  | 399.8  | 369.6  |
| 3881.0 | 57.5° | 3765.8 | 3154.5 | 1110.4 | 500.2  | 461.3  | 472.0  | 458.7  | 418.8  | 376.8  | 345.6  |
| 4414.9 | 60°   | 4210.2 | 3466.8 | 1027.5 | 442.8  | 417.7  | 434.6  | 425.9  | 391.6  | 340.4  | 314.3  |
| 4861.3 | 62.5° | 4551.6 | 3642.9 | 867.7  | 397.3  | 381.9  | 401.4  | 396.8  | 355.8  | 333.8  | 323.0  |
| 5227.9 | 65°   | 4722.6 | 3614.3 | 663.5  | 356.8  | 351.7  | 381.9  | 372.2  | 370.6  | 353.2  | 340.9  |
| 5347.2 | 67.5° | 4617.7 | 3367.5 | 481.2  | 327.1  | 334.3  | 364.0  | 401.4  | 407.5  | 375.2  | 351.2  |
| 5011.3 | 70°   | 4157.4 | 2921.1 | 358.4  | 299.0  | 312.3  | 364.5  | 457.7  | 426.4  | 368.1  | 339.9  |
| 4019.2 | 72.5° | 3162.7 | 2178.3 | 278.0  | 269.3  | 283.6  | 367.1  | 482.8  | 417.7  | 347.6  | 375.8  |
| 2503.9 | 75°   | 1808.7 | 1195.9 | 223.2  | 232.9  | 247.8  | 343.0  | 470.0  | 395.2  | 331.7  | 345.0  |
| 992.1  | 77.5° | 689.6  | 459.7  | 184.3  | 197.1  | 199.1  | 299.5  | 449.5  | 393.7  | 315.9  | 308.2  |
| 297.4  | 80°   | 239.1  | 179.7  | 152.6  | 156.7  | 154.1  | 266.2  | 431.0  | 342.5  | 258.5  | 231.4  |
| 122.9  | 82.5° | 97.8   | 89.6   | 120.8  | 115.7  | 109.6  | 206.8  | 348.1  | 280.0  | 211.4  | 186.9  |
| 59.4   | 85°   | 42.5   | 56.8   | 79.9   | 70.1   | 63.5   | 143.3  | 279.0  | 237.0  | 178.7  | 154.1  |
| 19.5   | 87.5° | 8.7    | 21.5   | 33.8   | 31.7   | 32.8   | 95.7   | 198.1  | 168.4  | 126.4  | 94.7   |
| 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°   |
|--------|
| 980.4  |
| 977.8  |
| 996.7  |
| 1029.0 |
| 1065.3 |
| 1099.1 |
| 1122.2 |
| 1135.5 |
| 1143.2 |
| 1143.7 |
| 1136.0 |
| 1122.7 |
| 1096.6 |
| 1048.4 |
| 970.1  |
| 866.7  |
| 747.9  |
| 630.7  |
| 533.4  |
| 466.9  |
| 423.9  |
| 391.1  |
| 366.5  |
| 340.4  |
| 310.2  |
| 319.4  |
| 336.9  |
| 347.1  |
| 335.3  |
| 372.7  |
| 345.0  |
| 281.1  |
| 223.7  |
| 184.8  |
| 153.6  |
| 74.2   |
| 0.0    |