

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: P939322

Luminaire Tested: **GLAN-SB1D-840-U-SL4**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P939322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-840-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9652 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

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



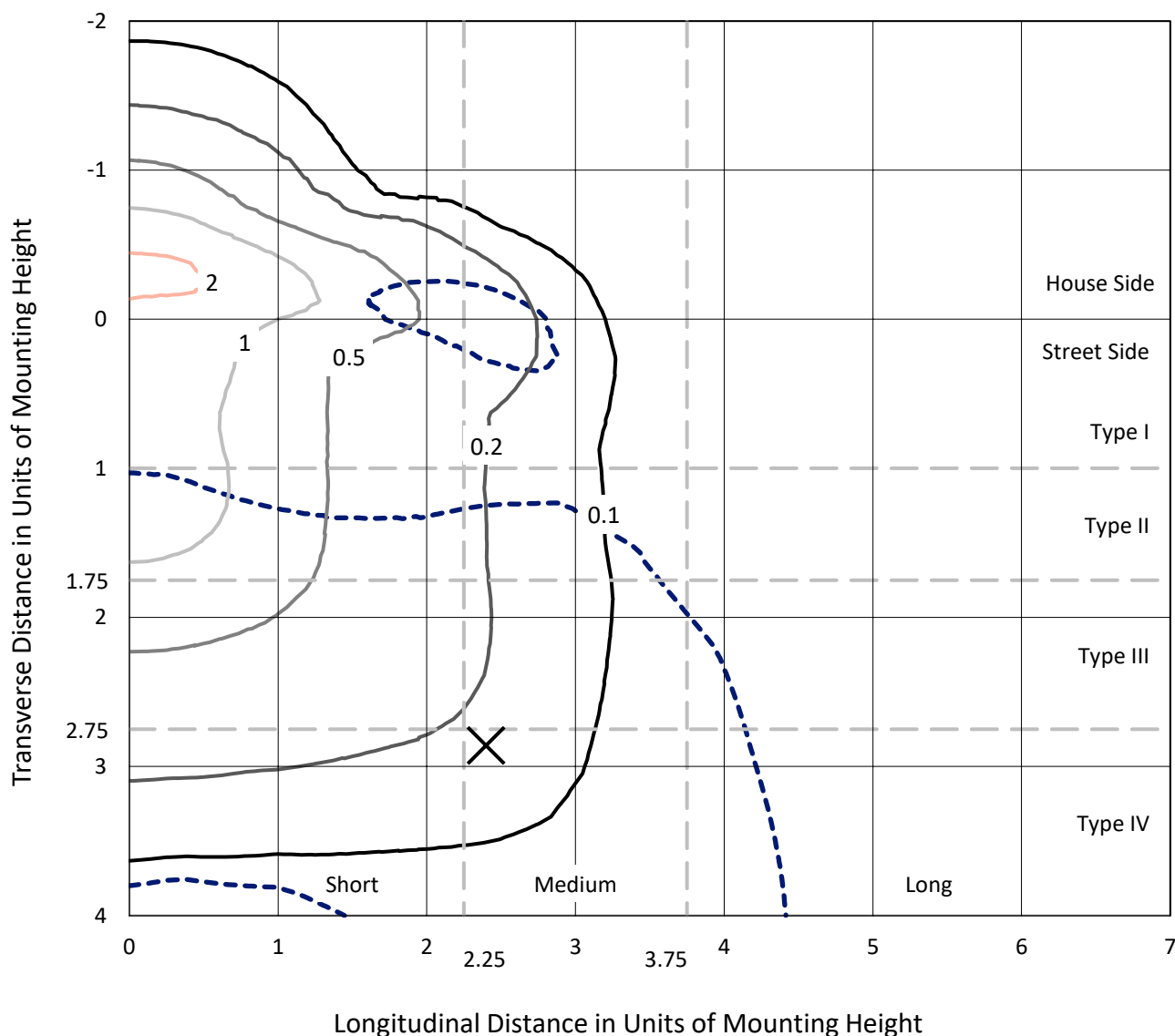
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

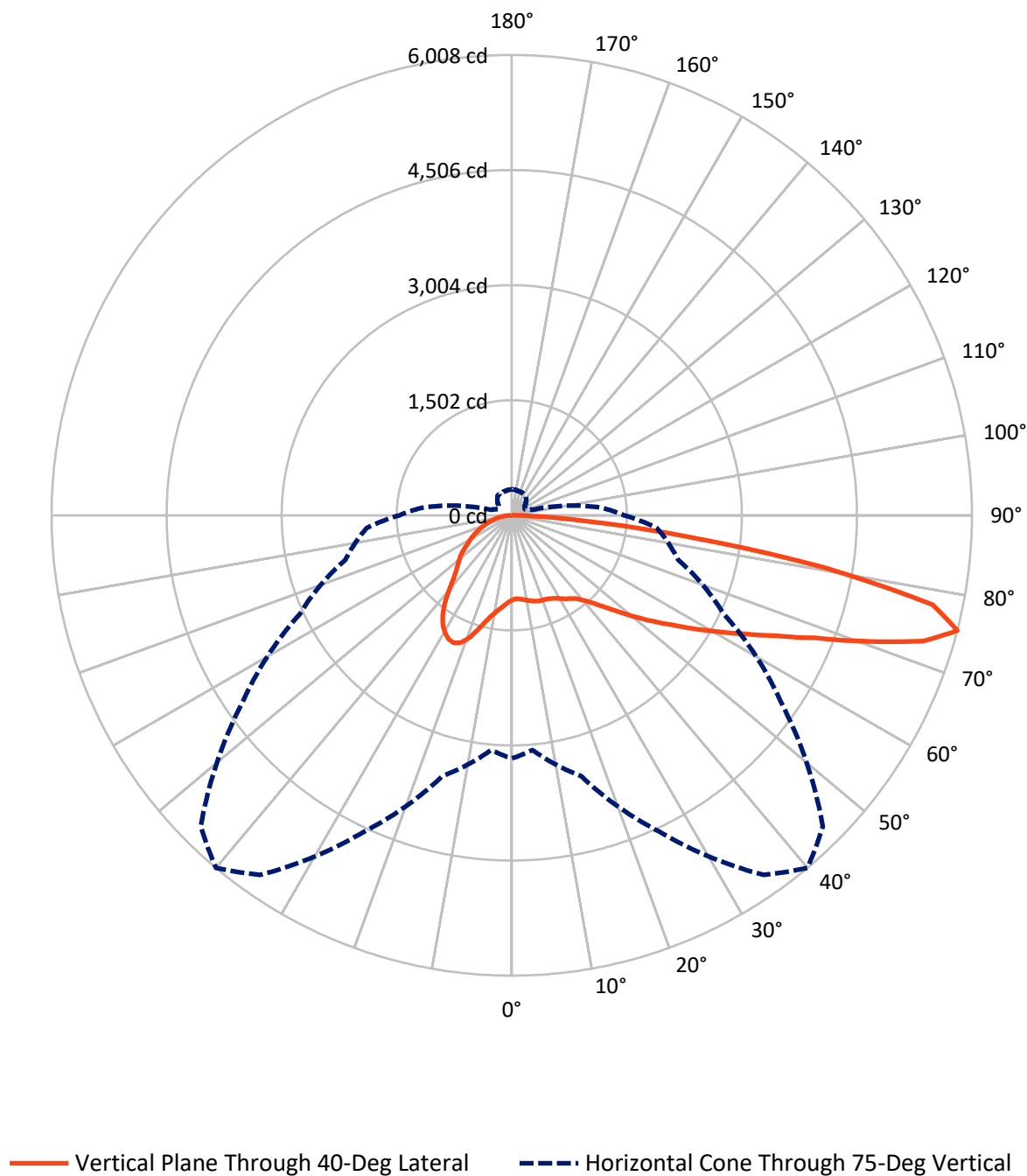
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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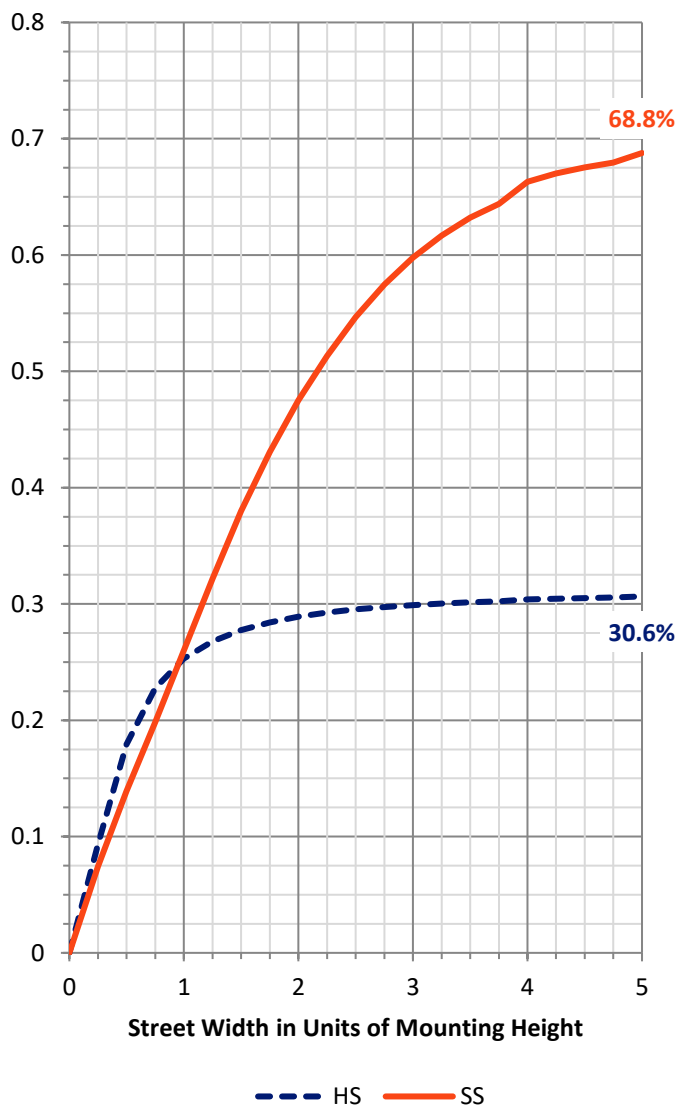
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2990.5   | 0.0    | 2990.5 |
|                    | % Fixture | 31.0     | 0.0    | 31.0   |
| <b>Street Side</b> | Lumens    | 6661.5   | 0.0    | 6661.5 |
|                    | % Fixture | 69.0     | 0.0    | 69.0   |
| <b>Total</b>       | Lumens    | 9652.0   | 0.0    | 9652.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.2  | 1.1       |
| 10°-20°   | 369.9  | 3.8       |
| 20°-30°   | 675.4  | 7.0       |
| 30°-40°   | 957.9  | 9.9       |
| 40°-50°   | 1293.5 | 13.4      |
| 50°-60°   | 1740.1 | 18.0      |
| 60°-70°   | 2208.5 | 22.9      |
| 70°-80°   | 2004.4 | 20.8      |
| 80°-90°   | 292.2  | 3.0       |
| 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°    | 9652.0 | 100.0     |
| 0°-180°   | 9652.0 | 100.0     |

**Coefficient of Utilization**



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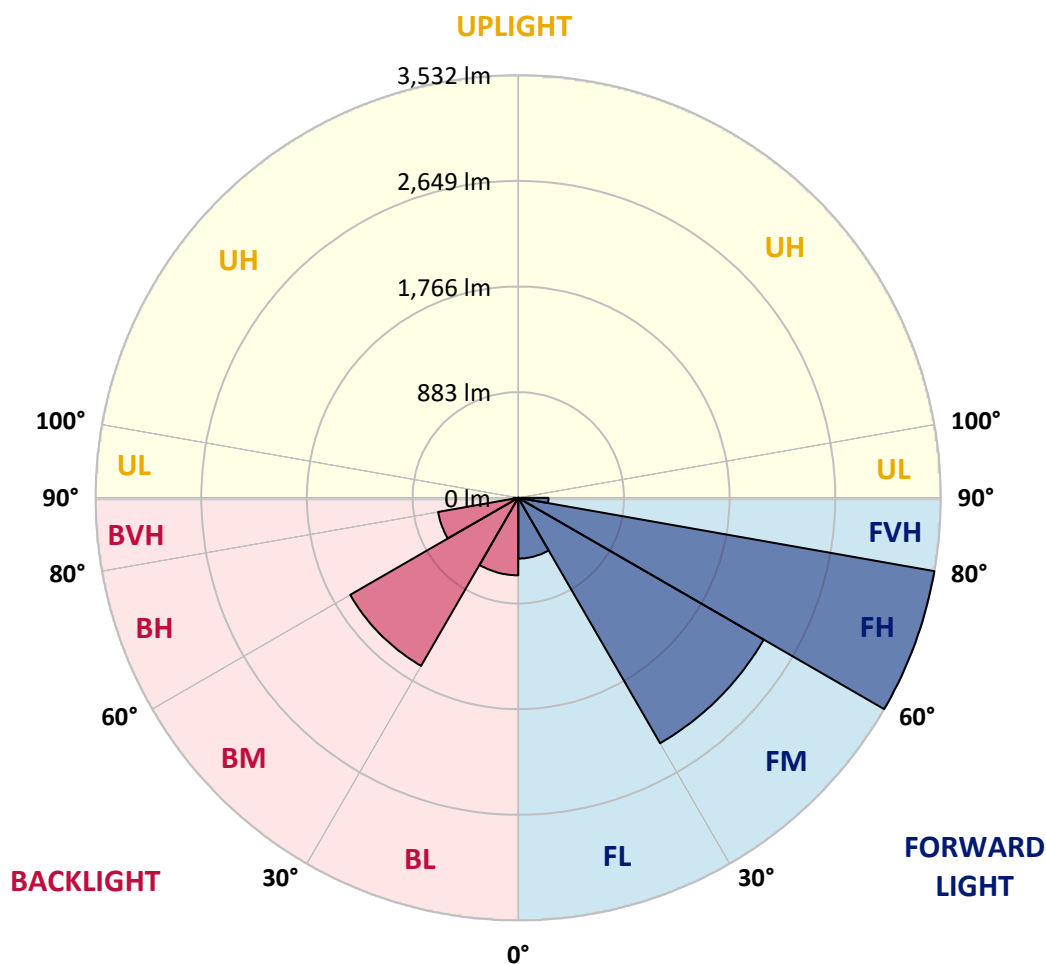
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 507.7  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 2369.4 | 24.5      |                         |      |         |
| FH   | (60°-80°)   | 3532.5 | 36.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 252.0  | 2.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 647.8  | 6.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1622.1 | 16.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 680.4  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 40.2   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 |
| 2.5°  | 1086.8 | 1093.0 | 1091.4 | 1089.4 | 1089.4 | 1089.9 | 1089.4 | 1093.0 | 1096.6 | 1100.1 |
| 5°    | 1098.1 | 1104.2 | 1101.2 | 1098.6 | 1096.6 | 1096.0 | 1094.5 | 1094.0 | 1096.0 | 1100.6 |
| 7.5°  | 1120.1 | 1126.2 | 1121.6 | 1117.0 | 1112.9 | 1110.9 | 1108.8 | 1105.8 | 1104.2 | 1106.8 |
| 10°   | 1144.7 | 1150.8 | 1145.2 | 1137.0 | 1130.3 | 1127.8 | 1125.7 | 1122.7 | 1120.6 | 1122.1 |
| 12.5° | 1169.2 | 1175.4 | 1167.7 | 1156.4 | 1147.7 | 1146.2 | 1143.6 | 1142.6 | 1142.1 | 1141.6 |
| 15°   | 1192.3 | 1197.4 | 1187.7 | 1174.4 | 1165.2 | 1162.6 | 1160.0 | 1161.6 | 1164.1 | 1167.2 |
| 17.5° | 1210.2 | 1215.3 | 1201.0 | 1183.6 | 1174.9 | 1173.9 | 1172.3 | 1177.4 | 1184.6 | 1192.3 |
| 20°   | 1226.6 | 1231.7 | 1213.3 | 1189.7 | 1179.5 | 1179.5 | 1180.0 | 1190.7 | 1201.0 | 1212.2 |
| 22.5° | 1249.6 | 1253.7 | 1231.2 | 1198.9 | 1184.1 | 1185.1 | 1189.2 | 1200.0 | 1212.8 | 1228.1 |
| 25°   | 1283.9 | 1287.0 | 1259.3 | 1216.3 | 1199.4 | 1202.5 | 1206.1 | 1211.2 | 1223.5 | 1241.4 |
| 27.5° | 1339.2 | 1341.8 | 1305.4 | 1247.1 | 1221.5 | 1226.6 | 1231.7 | 1228.1 | 1233.7 | 1249.1 |
| 30°   | 1417.0 | 1418.6 | 1372.5 | 1295.2 | 1258.8 | 1261.4 | 1262.4 | 1247.6 | 1236.8 | 1249.1 |
| 32.5° | 1509.2 | 1508.7 | 1453.9 | 1353.5 | 1301.3 | 1298.8 | 1290.1 | 1260.9 | 1235.8 | 1246.5 |
| 35°   | 1652.0 | 1646.4 | 1575.7 | 1435.4 | 1349.4 | 1333.6 | 1313.1 | 1275.7 | 1240.9 | 1244.0 |
| 37.5° | 1888.5 | 1871.1 | 1773.3 | 1569.6 | 1421.1 | 1380.7 | 1350.5 | 1299.8 | 1252.2 | 1243.0 |
| 40°   | 2155.2 | 2133.2 | 2025.7 | 1753.4 | 1528.6 | 1463.6 | 1415.0 | 1334.1 | 1270.6 | 1247.6 |
| 42.5° | 2471.6 | 2440.4 | 2324.7 | 1969.9 | 1664.8 | 1570.6 | 1497.4 | 1377.6 | 1297.7 | 1262.4 |
| 45°   | 2860.1 | 2818.7 | 2654.9 | 2214.1 | 1836.3 | 1710.9 | 1613.1 | 1443.6 | 1339.2 | 1291.1 |
| 47.5° | 3252.8 | 3263.0 | 3030.1 | 2493.6 | 2042.1 | 1883.9 | 1758.0 | 1543.0 | 1399.6 | 1337.2 |
| 50°   | 3670.0 | 3677.2 | 3403.3 | 2803.3 | 2275.5 | 2079.5 | 1920.8 | 1654.0 | 1483.6 | 1402.7 |
| 52.5° | 3995.6 | 3996.6 | 3742.2 | 3127.4 | 2518.7 | 2294.5 | 2096.3 | 1781.0 | 1580.8 | 1489.7 |
| 55°   | 4199.4 | 4196.8 | 3979.7 | 3434.0 | 2798.2 | 2520.2 | 2290.9 | 1925.4 | 1699.6 | 1592.1 |
| 57.5° | 4347.3 | 4339.6 | 4143.6 | 3697.7 | 3096.1 | 2786.9 | 2511.0 | 2089.2 | 1839.9 | 1713.9 |
| 60°   | 4403.6 | 4399.0 | 4254.6 | 3925.5 | 3409.4 | 3081.8 | 2764.9 | 2272.5 | 1999.1 | 1857.8 |
| 62.5° | 4425.1 | 4433.8 | 4363.7 | 4146.1 | 3744.8 | 3408.4 | 3043.9 | 2491.6 | 2178.3 | 2020.6 |
| 65°   | 4500.9 | 4516.8 | 4502.4 | 4434.8 | 4123.6 | 3790.8 | 3414.1 | 2752.1 | 2373.8 | 2195.2 |
| 67.5° | 4650.9 | 4666.7 | 4672.9 | 4780.4 | 4586.4 | 4267.4 | 3875.8 | 3076.7 | 2602.6 | 2376.4 |
| 70°   | 4647.3 | 4642.7 | 4751.2 | 5055.3 | 5165.9 | 4927.3 | 4498.3 | 3476.0 | 2875.5 | 2526.9 |
| 72.5° | 4230.1 | 4193.2 | 4449.7 | 5052.2 | 5648.1 | 5616.4 | 5258.5 | 3991.0 | 3111.0 | 2545.3 |
| 75°   | 3173.4 | 3075.2 | 3528.2 | 4553.1 | 5728.5 | 6007.5 | 5741.8 | 4310.4 | 3055.2 | 2248.9 |
| 77.5° | 1357.1 | 1258.3 | 1792.3 | 3370.5 | 5127.0 | 5615.9 | 5298.5 | 3760.6 | 2438.8 | 1487.2 |
| 80°   | 355.3  | 354.8  | 541.6  | 1528.1 | 3486.7 | 4147.1 | 3638.3 | 2428.6 | 1393.5 | 531.4  |
| 82.5° | 146.9  | 143.3  | 199.1  | 594.3  | 1703.7 | 2327.2 | 1899.3 | 1083.2 | 503.2  | 143.9  |
| 85°   | 54.8   | 54.3   | 96.8   | 205.3  | 601.0  | 959.9  | 694.7  | 277.0  | 125.4  | 70.1   |
| 87.5° | 15.4   | 14.8   | 21.0   | 71.2   | 146.4  | 222.2  | 118.8  | 45.6   | 35.3   | 27.6   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1103.7 | 0°    | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 | 1103.7 |
| 1105.8 | 2.5°  | 1107.3 | 1109.9 | 1114.5 | 1118.1 | 1122.7 | 1127.8 | 1134.9 | 1139.6 | 1144.2 | 1147.2 |
| 1108.3 | 5°    | 1111.9 | 1117.5 | 1129.3 | 1141.1 | 1154.9 | 1167.7 | 1182.6 | 1193.3 | 1202.0 | 1204.6 |
| 1117.5 | 7.5°  | 1122.1 | 1131.4 | 1151.3 | 1171.3 | 1193.3 | 1214.3 | 1235.8 | 1254.2 | 1269.1 | 1274.7 |
| 1133.9 | 10°   | 1140.1 | 1152.4 | 1180.5 | 1208.7 | 1237.8 | 1270.1 | 1297.7 | 1324.4 | 1345.3 | 1354.1 |
| 1153.4 | 12.5° | 1162.6 | 1177.9 | 1214.8 | 1253.7 | 1294.2 | 1338.7 | 1374.5 | 1407.3 | 1433.4 | 1445.2 |
| 1180.5 | 15°   | 1191.8 | 1211.7 | 1258.8 | 1311.1 | 1370.4 | 1432.4 | 1477.9 | 1514.3 | 1543.5 | 1557.8 |
| 1208.7 | 17.5° | 1223.5 | 1250.1 | 1309.5 | 1388.4 | 1473.3 | 1554.7 | 1608.0 | 1634.6 | 1664.8 | 1678.6 |
| 1234.8 | 20°   | 1254.2 | 1287.0 | 1372.0 | 1486.6 | 1599.8 | 1686.3 | 1729.3 | 1736.5 | 1738.5 | 1740.0 |
| 1259.3 | 22.5° | 1286.0 | 1330.0 | 1450.3 | 1610.5 | 1731.9 | 1791.8 | 1797.9 | 1767.2 | 1724.2 | 1704.2 |
| 1283.4 | 25°   | 1320.8 | 1379.1 | 1552.7 | 1747.2 | 1845.5 | 1852.7 | 1805.6 | 1730.8 | 1649.4 | 1612.1 |
| 1302.9 | 27.5° | 1354.6 | 1436.0 | 1675.5 | 1877.8 | 1927.4 | 1864.4 | 1763.1 | 1657.1 | 1558.8 | 1519.4 |
| 1316.7 | 30°   | 1388.4 | 1501.0 | 1811.2 | 1991.9 | 1964.8 | 1835.3 | 1696.0 | 1577.8 | 1479.0 | 1437.5 |
| 1329.0 | 32.5° | 1422.7 | 1576.7 | 1967.3 | 2074.3 | 1958.1 | 1773.3 | 1612.6 | 1488.7 | 1401.7 | 1358.1 |
| 1339.7 | 35°   | 1461.6 | 1669.9 | 2115.3 | 2119.4 | 1913.6 | 1682.2 | 1502.5 | 1382.2 | 1306.4 | 1271.6 |
| 1352.5 | 37.5° | 1512.2 | 1788.2 | 2245.8 | 2130.6 | 1835.8 | 1548.6 | 1365.8 | 1256.3 | 1193.8 | 1177.9 |
| 1371.5 | 40°   | 1575.2 | 1930.5 | 2345.7 | 2112.7 | 1720.6 | 1386.3 | 1216.3 | 1128.8 | 1093.5 | 1097.1 |
| 1397.1 | 42.5° | 1657.1 | 2089.7 | 2415.8 | 2066.7 | 1560.4 | 1218.9 | 1085.3 | 1046.4 | 1063.3 | 1077.6 |
| 1435.4 | 45°   | 1763.6 | 2255.0 | 2459.3 | 1988.3 | 1379.1 | 1077.1 | 1008.0 | 1017.2 | 1030.0 | 1031.5 |
| 1497.4 | 47.5° | 1899.8 | 2422.4 | 2488.0 | 1870.1 | 1194.3 | 977.3  | 958.8  | 960.9  | 958.3  | 947.6  |
| 1590.1 | 50°   | 2069.7 | 2585.2 | 2513.6 | 1713.4 | 1037.2 | 914.8  | 890.2  | 883.1  | 847.8  | 812.9  |
| 1713.4 | 52.5° | 2263.2 | 2734.7 | 2524.3 | 1518.9 | 914.8  | 862.6  | 822.7  | 777.6  | 711.6  | 700.8  |
| 1868.5 | 55°   | 2478.2 | 2872.9 | 2496.7 | 1279.8 | 811.9  | 795.5  | 735.1  | 680.9  | 673.7  | 664.5  |
| 2072.8 | 57.5° | 2735.2 | 3021.9 | 2440.4 | 1013.1 | 706.5  | 717.2  | 658.3  | 664.5  | 651.7  | 637.4  |
| 2335.4 | 60°   | 3016.3 | 3176.0 | 2341.6 | 769.9  | 597.4  | 619.4  | 638.4  | 637.9  | 634.3  | 622.5  |
| 2612.4 | 62.5° | 3269.2 | 3277.4 | 2147.0 | 589.7  | 501.7  | 543.7  | 595.4  | 594.9  | 591.8  | 585.1  |
| 2901.6 | 65°   | 3419.7 | 3262.0 | 1822.5 | 464.3  | 422.9  | 481.2  | 537.0  | 541.1  | 541.6  | 541.1  |
| 3119.2 | 67.5° | 3393.1 | 3082.3 | 1377.1 | 369.6  | 357.8  | 417.7  | 479.2  | 484.8  | 488.9  | 489.9  |
| 3146.8 | 70°   | 3092.1 | 2687.6 | 897.9  | 294.9  | 300.0  | 361.9  | 424.4  | 430.0  | 433.6  | 437.7  |
| 2730.6 | 72.5° | 2410.2 | 1976.0 | 514.0  | 238.6  | 249.3  | 313.8  | 370.1  | 376.8  | 378.8  | 386.5  |
| 1900.3 | 75°   | 1468.7 | 1162.1 | 277.5  | 187.9  | 204.8  | 268.3  | 316.4  | 324.1  | 327.6  | 336.8  |
| 933.2  | 77.5° | 698.3  | 503.2  | 158.2  | 146.4  | 164.8  | 219.1  | 267.2  | 275.9  | 266.2  | 271.3  |
| 257.5  | 80°   | 236.0  | 186.9  | 99.8   | 111.6  | 125.9  | 171.0  | 214.0  | 222.7  | 202.2  | 201.2  |
| 85.5   | 82.5° | 82.4   | 75.8   | 63.5   | 74.2   | 81.4   | 122.4  | 161.8  | 173.0  | 150.5  | 150.0  |
| 38.4   | 85°   | 32.3   | 30.7   | 35.3   | 40.4   | 48.6   | 75.3   | 106.5  | 112.1  | 92.7   | 74.7   |
| 11.3   | 87.5° | 6.7    | 7.2    | 8.7    | 9.2    | 14.8   | 26.1   | 38.4   | 47.1   | 37.4   | 31.7   |
| 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°   |
|--------|
| 1103.7 |
| 1145.2 |
| 1205.6 |
| 1275.2 |
| 1354.6 |
| 1445.2 |
| 1556.8 |
| 1678.1 |
| 1744.1 |
| 1709.8 |
| 1617.7 |
| 1524.0 |
| 1442.1 |
| 1363.8 |
| 1279.3 |
| 1189.2 |
| 1109.4 |
| 1090.9 |
| 1041.8 |
| 955.8  |
| 817.6  |
| 704.4  |
| 666.0  |
| 634.8  |
| 618.4  |
| 582.6  |
| 541.1  |
| 490.9  |
| 439.7  |
| 389.6  |
| 337.9  |
| 267.2  |
| 199.1  |
| 142.8  |
| 73.7   |
| 29.2   |
| 0.0    |