Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P946004

Luminaire Tested: **GALN-SB1D-740-U-T4W-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P946004 |
| | 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-SB1D-740-U-T4W-HSS |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 8296 lumens |
| Efficiency: | N/A |
| Efficacy: | 104.2 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - 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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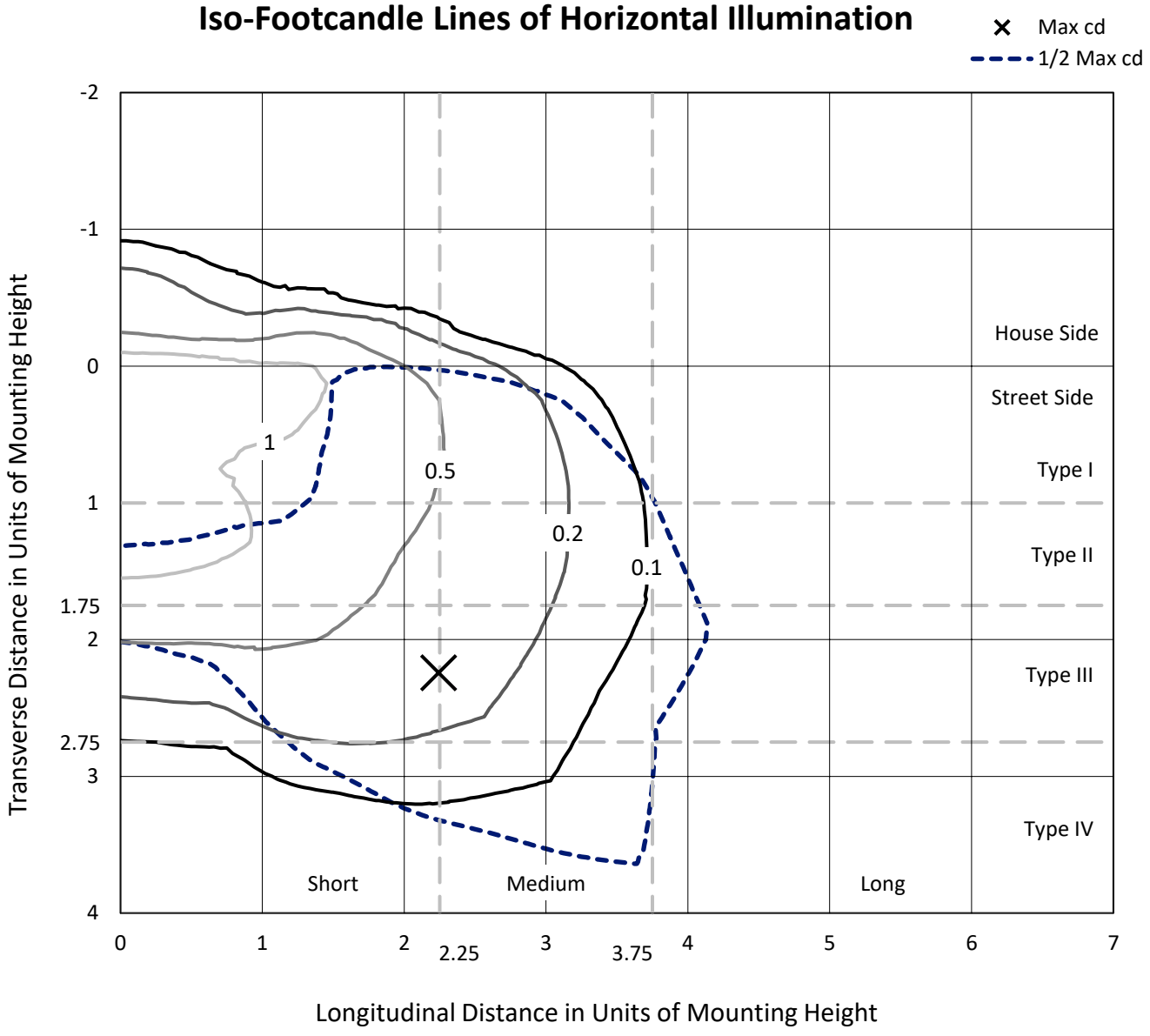
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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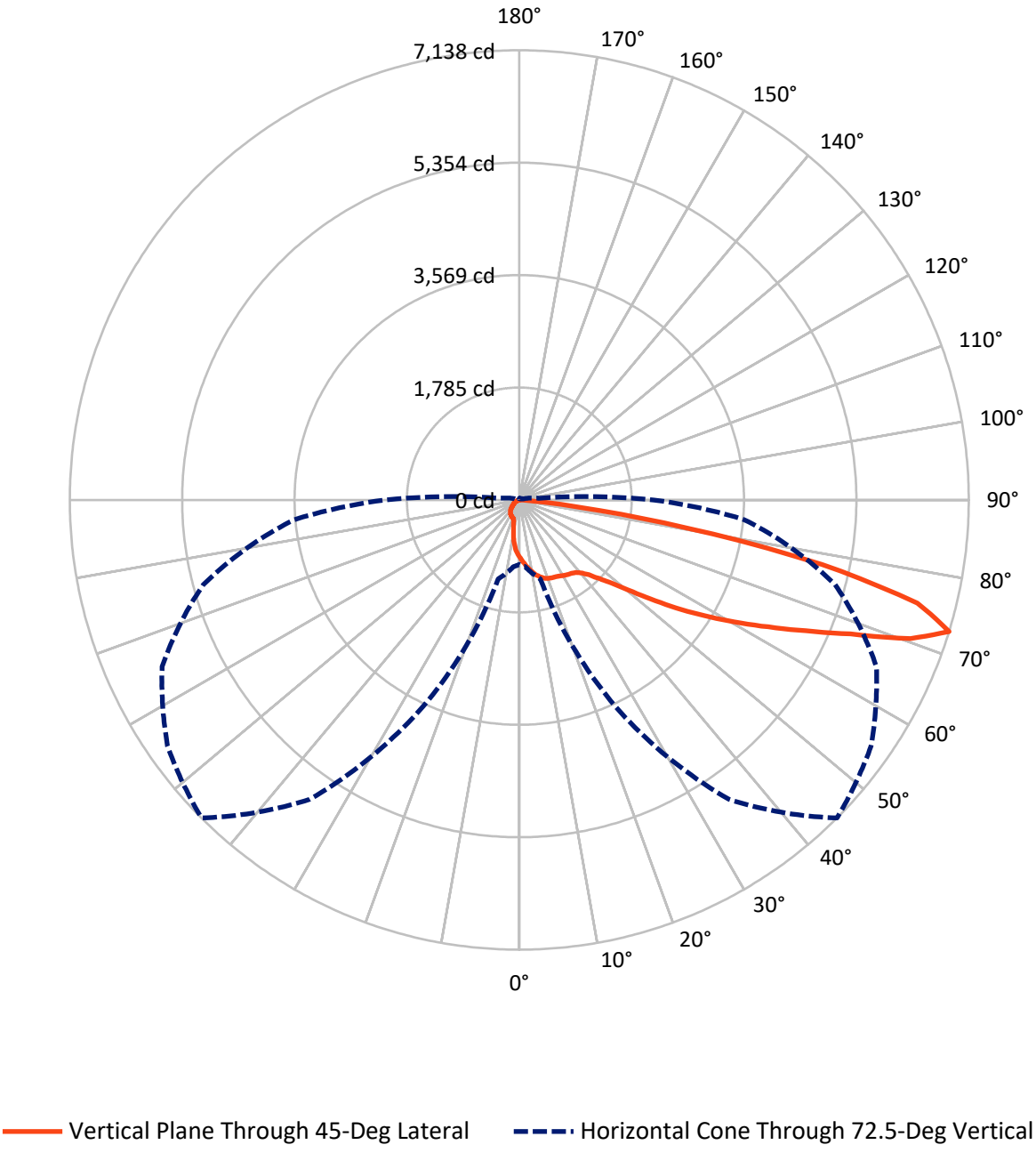
## Luminous Intensity Polar Plot



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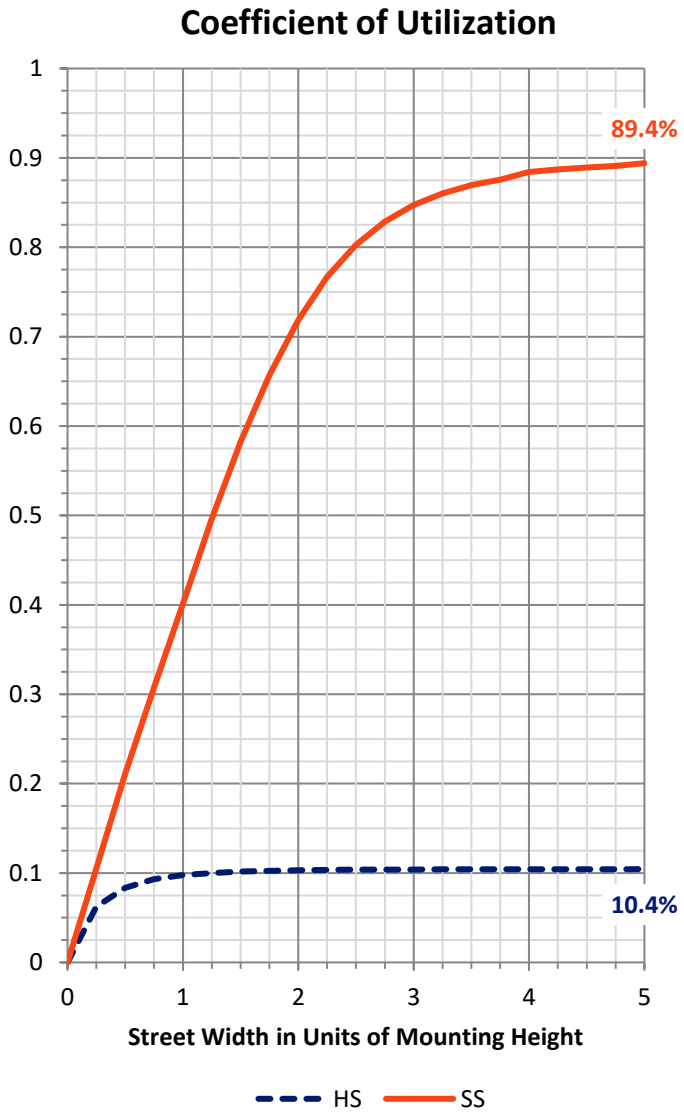
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 871.7 | 0.0 | 871.7 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| **Street Side** | Lumens | 7424.3 | 0.0 | 7424.3 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| **Total** | Lumens | 8296.0 | 0.0 | 8296.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 85.6 | 1.0 |
| 10°-20° | 250.3 | 3.0 |
| 20°-30° | 411.0 | 5.0 |
| 30°-40° | 582.9 | 7.0 |
| 40°-50° | 963.4 | 11.6 |
| 50°-60° | 1730.6 | 20.9 |
| 60°-70° | 2403.1 | 29.0 |
| 70°-80° | 1743.1 | 21.0 |
| 80°-90° | 126.0 | 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° | 8296.0 | 100.0 |
| 0°-180° | 8296.0 | 100.0 |



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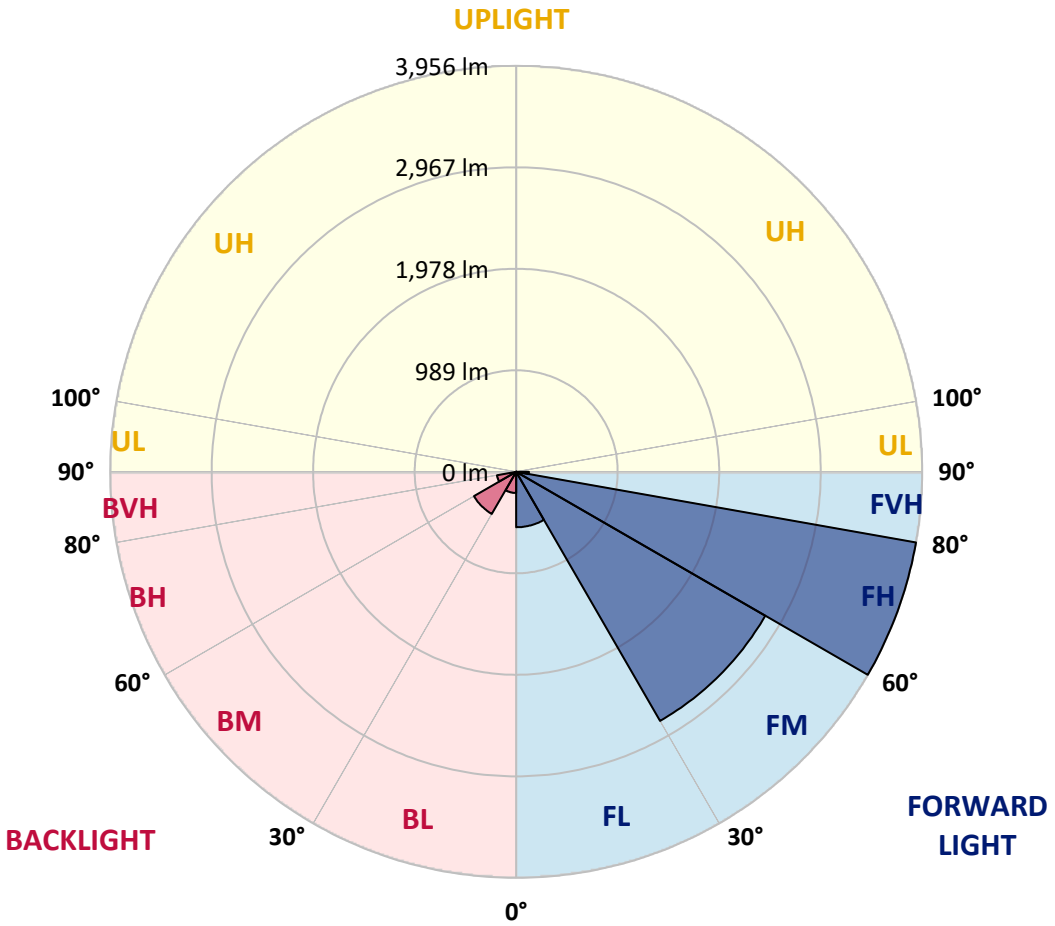
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 540.4 | 6.5 | | | |
| FM | (30°-60°) | 2802.8 | 33.8 | | | |
| FH | (60°-80°) | 3956.1 | 47.7 | | | G2/5000 |
| FVH | (80°-90°) | 125.0 | 1.5 | | | G2/225 |
| BL | (0°-30°) | 206.5 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 474.1 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 190.1 | 2.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.1 | 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° | 908.8 | 908.8 | 908.8 | 908.8 | 908.8 | *908.8* | 908.8 | 908.8 | 908.8 | 908.8 |
| 2.5° | 992.7 | 994.3 | 993.2 | 986.4 | 975.1 | *968.9* | 965.5 | 954.1 | 946.8 | 933.8 |
| 5° | 1083.8 | 1090.6 | 1086.6 | 1073.1 | 1051.5 | *1036.3* | 1031.7 | 1008.5 | 987.6 | 963.2 |
| 7.5° | 1180.6 | 1184.0 | 1176.7 | 1159.1 | 1130.3 | *1104.2* | 1100.2 | 1068.0 | 1034.6 | 997.2 |
| 10° | 1264.5 | 1268.4 | 1257.1 | 1231.6 | 1198.8 | *1166.5* | 1160.8 | 1125.2 | 1085.5 | 1039.7 |
| 12.5° | 1334.7 | 1338.6 | 1323.9 | 1293.3 | 1257.1 | *1223.7* | 1218.0 | 1180.6 | 1137.0 | 1086.1 |
| 15° | 1387.9 | 1395.3 | 1375.4 | 1342.6 | 1303.5 | *1270.1* | 1267.3 | 1230.5 | 1188.0 | 1131.4 |
| 17.5° | 1419.0 | 1426.4 | 1407.7 | 1368.1 | 1334.7 | *1306.4* | 1303.0 | 1272.4 | 1232.7 | 1178.4 |
| 20° | 1424.1 | 1430.9 | 1411.1 | 1376.6 | 1348.8 | *1326.2* | 1324.5 | 1302.4 | 1273.5 | 1221.4 |
| 22.5° | 1408.9 | 1417.3 | 1399.2 | 1371.5 | 1352.2 | *1340.3* | 1338.1 | 1325.6 | 1309.2 | 1265.0 |
| 25° | 1393.0 | 1399.8 | 1386.2 | 1361.9 | 1351.7 | *1350.5* | 1352.2 | 1350.0 | 1346.6 | 1309.2 |
| 27.5° | 1391.9 | 1399.2 | 1383.9 | 1360.7 | 1355.1 | *1366.9* | 1368.6 | 1379.4 | 1382.2 | 1349.4 |
| 30° | 1401.5 | 1406.6 | 1391.9 | 1367.5 | 1364.7 | *1391.9* | 1392.4 | 1411.7 | 1416.2 | 1383.4 |
| 32.5° | 1422.4 | 1428.1 | 1413.4 | 1377.7 | 1373.7 | *1411.7* | 1413.4 | 1438.9 | 1446.2 | 1419.6 |
| 35° | 1471.7 | 1478.5 | 1461.5 | 1406.0 | 1391.9 | *1430.4* | 1435.5 | 1465.5 | 1480.2 | 1458.1 |
| 37.5° | 1594.6 | 1574.8 | 1551.5 | 1463.2 | 1433.2 | *1459.8* | 1468.3 | 1503.4 | 1529.5 | 1504.0 |
| 40° | 1899.8 | 1837.5 | 1765.0 | 1560.6 | 1505.7 | *1522.7* | 1529.5 | 1564.6 | 1600.2 | 1575.3 |
| 42.5° | 2357.9 | 2284.3 | 2167.6 | 1784.8 | 1615.0 | *1623.5* | 1628.6 | 1659.1 | 1709.5 | 1689.7 |
| 45° | 2766.2 | 2739.6 | 2620.6 | 2167.6 | 1819.4 | *1777.5* | 1783.7 | 1799.6 | 1873.7 | 1866.4 |
| 47.5° | 3079.9 | 3064.6 | 2972.9 | 2607.1 | 2164.8 | *1966.0* | 1983.6 | 1991.0 | 2098.0 | 2124.0 |
| 50° | 3321.1 | 3315.4 | 3233.3 | 2997.8 | 2616.1 | *2244.1* | 2250.3 | 2234.5 | 2394.7 | 2459.3 |
| 52.5° | 3548.7 | 3568.0 | 3507.4 | 3360.7 | 3098.0 | *2608.2* | 2607.1 | 2532.3 | 2748.6 | 2846.0 |
| 55° | 3754.3 | 3761.1 | 3767.3 | 3731.1 | 3582.7 | *3022.7* | 3011.9 | 2889.6 | 3159.2 | 3259.9 |
| 57.5° | 3947.4 | 3950.2 | 4005.7 | 4079.9 | 4087.3 | *3467.8* | 3447.9 | 3301.3 | 3607.6 | 3679.5 |
| 60° | 4077.1 | 4090.1 | 4207.3 | 4413.4 | 4503.5 | *3927.0* | 3916.2 | 3766.7 | 4064.0 | 4097.4 |
| 62.5° | 3890.2 | 3969.5 | 4265.1 | 4673.9 | 4896.4 | *4436.1* | 4431.0 | 4290.5 | 4544.2 | 4517.0 |
| 65° | 3149.0 | 3283.2 | 3803.0 | 4850.0 | 5282.1 | *5004.6* | 5012.0 | 4862.5 | 5037.4 | 4949.1 |
| 67.5° | 2202.7 | 2344.3 | 2959.3 | 4864.2 | 5713.0 | *5672.2* | 5714.7 | 5480.2 | 5561.2 | 5363.0 |
| 70° | 1523.2 | 1596.3 | 1996.6 | 4559.5 | 6048.8 | *6591.8* | 6590.7 | 6239.0 | 6082.2 | 5551.6 |
| 72.5° | *1024.4* | *1062.3* | *1296.7* | *3617.3* | *5801.9* | *7138.3* | *7105.4* | *6818.9* | *6257.7* | *5192.0* |
| 75° | 432.1 | 459.8 | 600.2 | 2032.9 | 4590.1 | *6530.7* | 6441.8 | 6026.1 | 5560.1 | 4088.4 |
| 77.5° | 137.0 | 148.9 | 236.7 | 727.6 | 2528.3 | *4908.9* | 4814.9 | 3763.4 | 3726.5 | 2051.0 |
| 80° | 65.1 | 75.9 | 133.1 | 292.2 | 994.9 | *2669.9* | 2656.9 | 1707.3 | 1603.1 | 553.8 |
| 82.5° | 28.3 | 33.4 | 73.6 | 156.3 | 445.1 | *952.4* | 971.7 | 581.0 | 480.8 | 210.1 |
| 85° | 9.1 | 11.9 | 34.0 | 71.9 | 188.0 | *236.7* | 233.9 | 138.2 | 193.7 | 114.4 |
| 87.5° | 0.0 | 0.0 | 11.3 | 16.4 | 19.3 | *13.6* | 15.3 | 11.9 | 53.8 | 31.7 |
| 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° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 908.8 | 0° | 908.8 | 908.8 | 908.8 | 908.8 | 908.8 | 908.8 | 908.8 | 908.8 | 908.8 | 908.8 |
| 920.2 | 2.5° | 913.4 | 904.3 | 888.5 | 873.7 | 860.7 | 847.7 | 839.8 | 828.4 | 827.3 | 827.3 |
| 934.9 | 5° | 919.6 | 904.9 | 876.6 | 846.6 | 812.0 | 779.2 | 746.3 | 714.6 | 704.4 | 697.1 |
| 958.7 | 7.5° | 937.7 | 914.5 | 869.8 | 812.6 | 746.9 | 675.0 | 624.6 | 570.2 | 549.3 | 537.9 |
| 990.4 | 10° | 963.8 | 932.1 | 864.1 | 763.9 | 657.4 | 559.5 | 487.5 | 428.7 | 406.0 | 396.4 |
| 1024.9 | 12.5° | 992.7 | 953.6 | 853.9 | 703.3 | 559.5 | 442.2 | 372.0 | 344.9 | 341.5 | 341.5 |
| 1066.3 | 15° | 1027.2 | 979.6 | 836.4 | 631.9 | 457.0 | 349.9 | 325.0 | 326.2 | 329.6 | 331.8 |
| 1106.5 | 17.5° | 1062.9 | 1007.4 | 808.6 | 552.1 | 366.4 | 314.8 | 315.4 | 317.1 | 319.9 | 322.2 |
| 1150.1 | 20° | 1101.4 | 1035.1 | 771.8 | 467.2 | 314.3 | 304.6 | 306.3 | 308.0 | 310.3 | 311.4 |
| 1190.8 | 22.5° | 1142.7 | 1061.2 | 728.2 | 383.9 | 296.7 | 296.2 | 296.7 | 298.4 | 301.2 | 301.2 |
| 1238.4 | 25° | 1186.9 | 1090.0 | 678.4 | 323.3 | 287.7 | 287.7 | 288.8 | 289.9 | 292.2 | 292.2 |
| 1284.3 | 27.5° | 1232.2 | 1116.7 | 625.7 | 291.6 | 279.7 | 279.2 | 279.2 | 280.9 | 282.0 | 282.6 |
| 1329.6 | 30° | 1282.0 | 1147.8 | 573.1 | 284.8 | 273.5 | 270.7 | 269.0 | 270.1 | 271.2 | 271.8 |
| 1377.1 | 32.5° | 1333.0 | 1177.8 | 526.1 | 287.7 | 267.3 | 262.2 | 256.5 | 255.4 | 255.4 | 257.6 |
| 1426.4 | 35° | 1389.6 | 1210.7 | 489.8 | 297.3 | 263.9 | 249.7 | 240.7 | 235.6 | 236.1 | 239.5 |
| 1485.3 | 37.5° | 1457.5 | 1250.3 | 463.2 | 305.8 | 261.6 | 235.6 | 220.8 | 214.6 | 210.6 | 214.6 |
| 1566.3 | 40° | 1546.5 | 1308.6 | 443.9 | 312.6 | 258.8 | 219.1 | 199.3 | 189.1 | 181.8 | 184.0 |
| 1692.0 | 42.5° | 1677.3 | 1400.4 | 436.6 | 313.1 | 252.6 | 199.9 | 177.2 | 163.6 | 152.9 | 153.5 |
| 1881.1 | 45° | 1860.7 | 1545.3 | 474.5 | 305.8 | 239.0 | 178.9 | 154.0 | 135.9 | 129.1 | 127.4 |
| 2163.7 | 47.5° | 2112.1 | 1756.5 | 562.3 | 290.5 | 219.1 | 158.6 | 131.4 | 116.1 | 111.0 | 108.2 |
| 2534.6 | 50° | 2449.1 | 2027.8 | 659.7 | 273.5 | 199.3 | 139.3 | 112.7 | 103.1 | 99.7 | 96.8 |
| 2974.6 | 52.5° | 2839.8 | 2303.0 | 739.5 | 256.5 | 179.5 | 122.3 | 100.8 | 95.1 | 92.3 | 90.0 |
| 3399.2 | 55° | 3198.2 | 2492.7 | 735.0 | 238.4 | 160.3 | 108.7 | 92.3 | 88.9 | 85.5 | 83.2 |
| 3765.1 | 57.5° | 3421.3 | 2519.3 | 605.9 | 218.6 | 138.2 | 98.0 | 84.4 | 82.1 | 78.1 | 75.3 |
| 4081.6 | 60° | 3523.8 | 2367.5 | 424.7 | 192.5 | 116.1 | 87.8 | 75.9 | 74.7 | 69.6 | 65.7 |
| 4381.1 | 62.5° | 3542.5 | 2085.5 | 283.1 | 160.3 | 96.8 | 78.1 | 67.4 | 65.7 | 58.9 | 52.1 |
| 4624.6 | 65° | 3466.6 | 1682.4 | 195.9 | 125.1 | 82.7 | 68.0 | 57.8 | 54.4 | 47.0 | 40.2 |
| 4682.4 | 67.5° | 3226.5 | 1181.2 | 136.5 | 90.0 | 70.2 | 53.8 | 45.9 | 44.7 | 39.1 | 33.4 |
| 4387.9 | 70° | 2786.6 | 673.3 | 91.2 | 67.4 | 55.5 | 36.8 | 36.2 | 37.4 | 31.7 | 27.2 |
| *3585.0* | 72.5° | *2136.5* | *308.0* | *56.6* | *49.3* | *37.9* | *24.9* | *28.9* | *29.4* | *24.3* | *20.4* |
| 2236.7 | 75° | 1257.7 | 131.9 | 35.7 | 31.7 | 19.3 | 16.4 | 21.0 | 21.5 | 16.4 | 13.0 |
| 817.7 | 77.5° | 428.1 | 49.8 | 22.7 | 18.7 | 9.6 | 9.1 | 13.6 | 13.6 | 9.1 | 5.1 |
| 164.2 | 80° | 97.4 | 18.7 | 11.3 | 7.4 | 4.5 | 4.0 | 4.5 | 4.0 | 2.3 | 0.6 |
| 50.4 | 82.5° | 27.7 | 7.4 | 4.5 | 2.8 | 1.7 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 |
| 17.6 | 85° | 7.9 | 3.4 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6.2 | 87.5° | 3.4 | 0.6 | 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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| 180° |
|---|
| 908.8 |
| 830.1 |
| 700.5 |
| 539.6 |
| 396.4 |
| 341.5 |
| 331.8 |
| 322.2 |
| 312.0 |
| 302.4 |
| 292.8 |
| 283.1 |
| 272.9 |
| 259.3 |
| 241.2 |
| 213.5 |
| 182.9 |
| 151.2 |
| 125.1 |
| 106.5 |
| 96.3 |
| 89.5 |
| 82.1 |
| 74.7 |
| 64.6 |
| 48.7 |
| 37.9 |
| 31.7 |
| 24.9 |
| *18.1* |
| 11.3 |
| 4.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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