

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: P948042

Luminaire Tested: **GALN-SB3A-950-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948042  
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: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-950-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

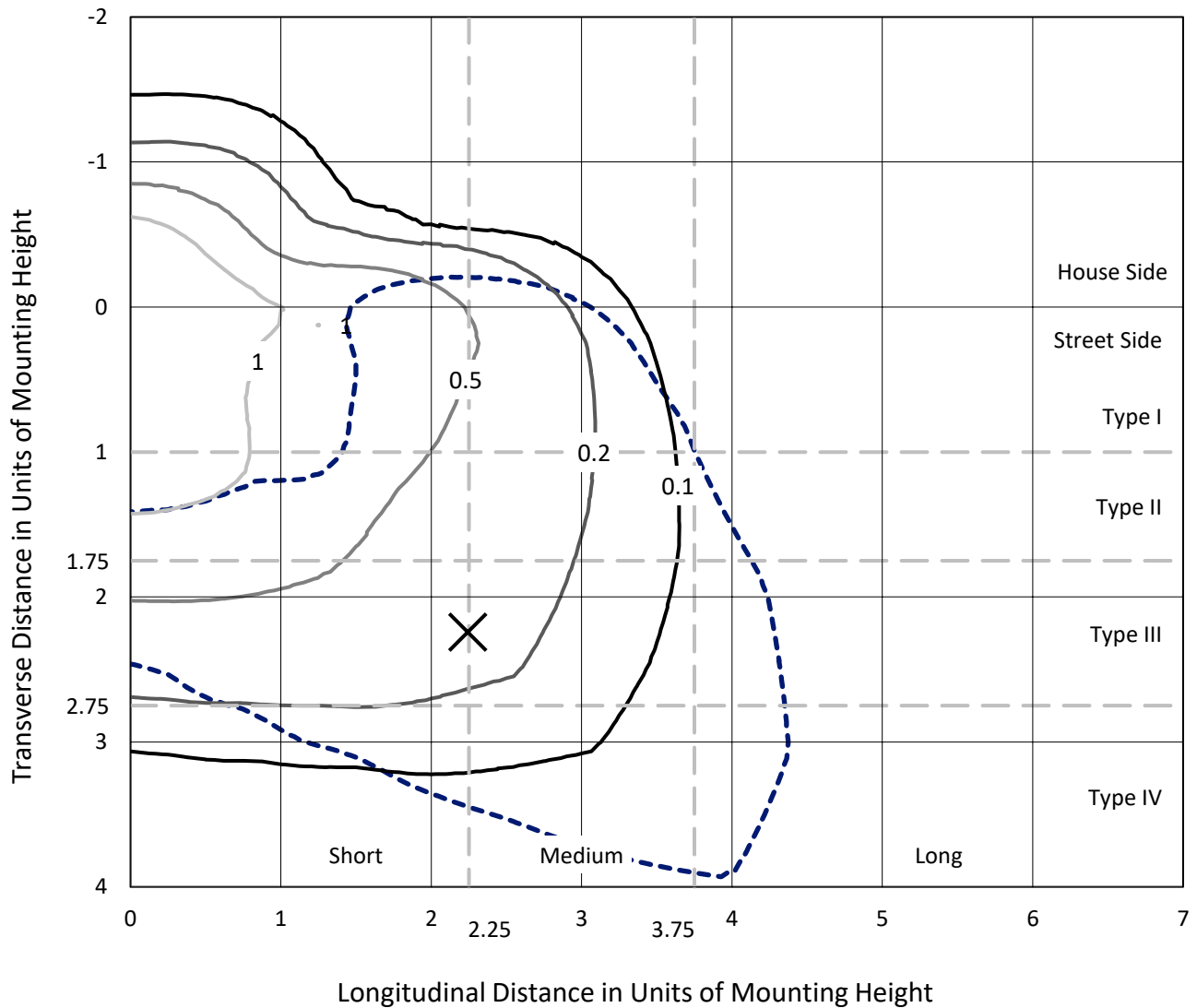
Lumens per Lamp: N/A  
Luminaire Lumens: 9344 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

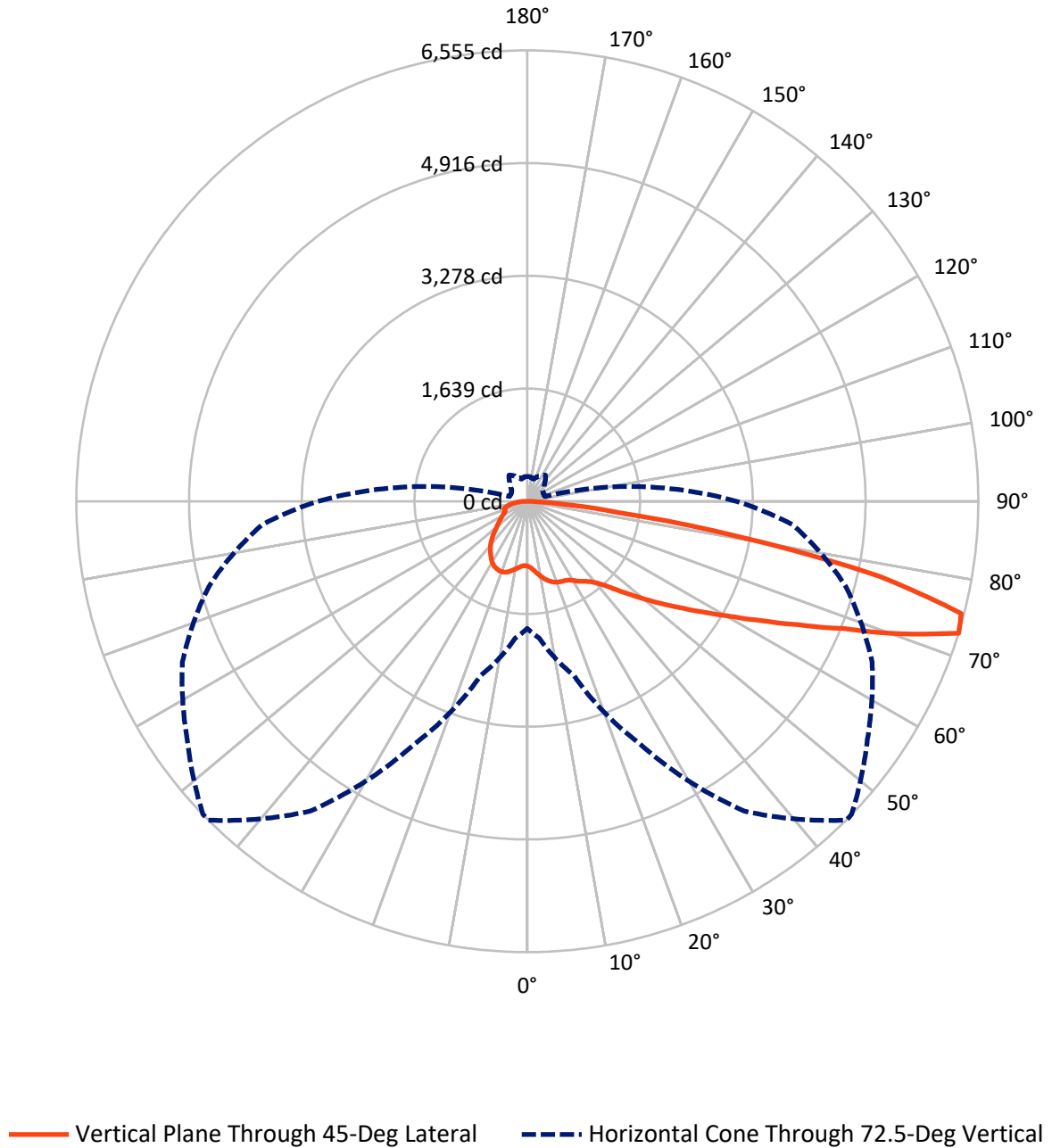
✕ Max cd  
 - - - 1/2 Max cd



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    | 2112.4   | 0.0    | 2112.4 |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 7231.6   | 0.0    | 7231.6 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 9344.0   | 0.0    | 9344.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.9   | 1.0       |
| 10°-20°   | 319.9  | 3.4       |
| 20°-30°   | 556.4  | 6.0       |
| 30°-40°   | 797.7  | 8.5       |
| 40°-50°   | 1123.2 | 12.0      |
| 50°-60°   | 1720.4 | 18.4      |
| 60°-70°   | 2492.3 | 26.7      |
| 70°-80°   | 1990.2 | 21.3      |
| 80°-90°   | 247.9  | 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°    | 9344.0 | 100.0     |
| 0°-180°   | 9344.0 | 100.0     |

**Coefficient of Utilization**



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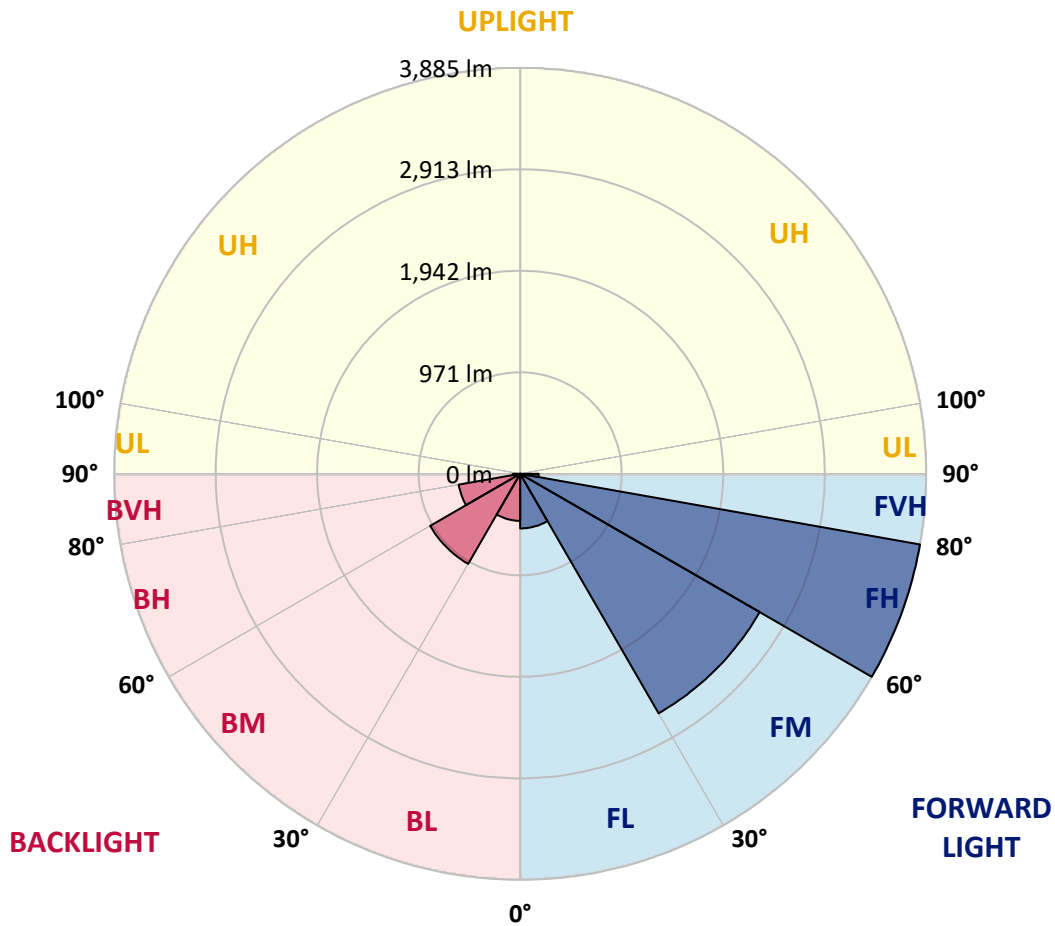
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 522.5  | 5.6       |                         |      |         |
| FM (30°-60°)   | 2646.7 | 28.3      |                         |      |         |
| FH (60°-80°)   | 3884.6 | 41.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 177.8  | 1.9       |                         |      | G2/225  |
| BL (0°-30°)    | 449.7  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 994.6  | 10.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 598.0  | 6.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 70.0   | 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°    | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  |
| 2.5°  | 979.5  | 985.9  | 980.0  | 974.6  | 972.2  | 965.8  | 965.3  | 961.3  | 958.9  | 952.0  |
| 5°    | 1048.0 | 1056.3 | 1046.5 | 1035.7 | 1025.8 | 1010.1 | 1008.1 | 996.8  | 984.0  | 969.2  |
| 7.5°  | 1125.2 | 1132.6 | 1121.3 | 1105.1 | 1087.8 | 1061.7 | 1061.3 | 1040.6 | 1020.4 | 995.3  |
| 10°   | 1192.7 | 1202.5 | 1187.3 | 1165.1 | 1143.5 | 1113.9 | 1110.5 | 1086.9 | 1061.3 | 1028.8 |
| 12.5° | 1252.2 | 1259.1 | 1244.4 | 1217.3 | 1192.2 | 1162.7 | 1158.2 | 1132.1 | 1103.6 | 1066.7 |
| 15°   | 1299.5 | 1308.4 | 1288.7 | 1259.6 | 1233.0 | 1204.0 | 1200.1 | 1176.4 | 1147.9 | 1109.0 |
| 17.5° | 1330.5 | 1337.9 | 1317.7 | 1285.2 | 1259.6 | 1235.5 | 1232.6 | 1212.9 | 1187.8 | 1148.4 |
| 20°   | 1342.3 | 1350.2 | 1329.0 | 1296.1 | 1272.4 | 1253.7 | 1252.2 | 1238.0 | 1220.7 | 1184.8 |
| 22.5° | 1354.1 | 1361.5 | 1334.0 | 1299.5 | 1278.8 | 1267.0 | 1266.5 | 1257.2 | 1250.3 | 1220.7 |
| 25°   | 1401.9 | 1403.9 | 1366.9 | 1317.2 | 1287.7 | 1277.3 | 1276.9 | 1276.4 | 1279.3 | 1256.2 |
| 27.5° | 1443.2 | 1442.7 | 1411.2 | 1364.5 | 1318.7 | 1297.0 | 1296.5 | 1301.5 | 1310.8 | 1291.6 |
| 30°   | 1503.8 | 1498.4 | 1460.9 | 1412.2 | 1370.4 | 1336.9 | 1334.0 | 1329.5 | 1336.9 | 1321.6 |
| 32.5° | 1632.2 | 1615.0 | 1554.5 | 1467.8 | 1413.2 | 1387.6 | 1383.7 | 1356.1 | 1359.1 | 1349.7 |
| 35°   | 1816.3 | 1793.7 | 1713.0 | 1573.2 | 1466.4 | 1429.9 | 1428.0 | 1393.0 | 1387.1 | 1378.7 |
| 37.5° | 2035.4 | 2007.3 | 1913.3 | 1725.8 | 1557.9 | 1479.2 | 1476.2 | 1444.7 | 1420.6 | 1411.7 |
| 40°   | 2255.4 | 2220.0 | 2142.2 | 1911.8 | 1692.8 | 1561.4 | 1552.0 | 1504.3 | 1476.7 | 1461.9 |
| 42.5° | 2469.0 | 2439.5 | 2373.1 | 2120.5 | 1859.2 | 1681.5 | 1660.8 | 1579.1 | 1558.4 | 1544.6 |
| 45°   | 2658.1 | 2631.5 | 2582.8 | 2343.5 | 2054.1 | 1844.9 | 1824.7 | 1691.3 | 1684.9 | 1684.9 |
| 47.5° | 2811.6 | 2805.7 | 2754.0 | 2570.9 | 2284.0 | 2031.0 | 1996.0 | 1847.4 | 1864.6 | 1891.2 |
| 50°   | 2982.0 | 2965.7 | 2910.6 | 2794.9 | 2554.2 | 2244.1 | 2215.5 | 2038.8 | 2103.3 | 2176.2 |
| 52.5° | 3138.5 | 3147.3 | 3085.8 | 3028.2 | 2859.4 | 2481.8 | 2431.6 | 2264.8 | 2404.1 | 2524.7 |
| 55°   | 3299.4 | 3299.9 | 3282.7 | 3274.8 | 3179.3 | 2744.7 | 2689.6 | 2536.5 | 2758.0 | 2907.6 |
| 57.5° | 3450.6 | 3451.5 | 3477.1 | 3546.5 | 3550.5 | 3047.9 | 2985.4 | 2870.2 | 3151.3 | 3303.9 |
| 60°   | 3585.4 | 3592.3 | 3662.2 | 3824.7 | 3876.8 | 3395.4 | 3336.4 | 3264.5 | 3557.9 | 3711.4 |
| 62.5° | 3630.7 | 3655.8 | 3811.4 | 4042.2 | 4199.2 | 3821.7 | 3763.6 | 3720.8 | 3985.1 | 4127.9 |
| 65°   | 3553.9 | 3611.5 | 3912.3 | 4221.9 | 4531.0 | 4328.2 | 4270.6 | 4223.9 | 4429.1 | 4563.5 |
| 67.5° | 3365.4 | 3439.7 | 3906.4 | 4410.4 | 4933.7 | 4937.6 | 4883.9 | 4774.2 | 4905.1 | 4956.8 |
| 70°   | 2868.7 | 2980.0 | 3562.3 | 4480.8 | 5395.9 | 5770.9 | 5719.3 | 5436.7 | 5380.1 | 5130.1 |
| 72.5° | 1848.3 | 1998.0 | 2623.1 | 3901.4 | 5498.7 | 6555.1 | 6552.1 | 6034.8 | 5530.2 | 4793.4 |
| 75°   | 674.4  | 765.9  | 1218.8 | 2448.9 | 4615.7 | 6515.2 | 6534.4 | 5932.4 | 5048.3 | 3702.6 |
| 77.5° | 245.6  | 268.8  | 397.7  | 941.2  | 2838.7 | 5227.5 | 5267.4 | 4742.7 | 3593.3 | 1858.2 |
| 80°   | 129.0  | 141.8  | 203.8  | 365.2  | 1216.3 | 3104.5 | 3167.0 | 2818.5 | 1688.9 | 559.7  |
| 82.5° | 71.4   | 77.3   | 114.2  | 198.4  | 547.9  | 1327.6 | 1365.0 | 1113.4 | 594.1  | 237.3  |
| 85°   | 38.4   | 40.9   | 53.7   | 108.3  | 267.8  | 460.2  | 470.6  | 332.8  | 236.8  | 139.3  |
| 87.5° | 11.3   | 13.8   | 17.7   | 34.5   | 104.8  | 103.4  | 105.8  | 66.0   | 93.5   | 70.4   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 942.6  | 0°    | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  | 942.6  |
| 950.0  | 2.5°  | 947.1  | 945.6  | 940.2  | 937.7  | 934.8  | 934.3  | 936.7  | 937.2  | 937.7  | 938.2  |
| 960.8  | 5°    | 955.9  | 951.0  | 946.1  | 943.1  | 944.1  | 944.6  | 949.5  | 953.0  | 955.4  | 957.4  |
| 981.0  | 7.5°  | 973.1  | 969.2  | 960.8  | 960.3  | 961.8  | 966.3  | 972.7  | 980.5  | 985.0  | 988.4  |
| 1007.1 | 10°   | 998.7  | 991.4  | 981.5  | 983.0  | 985.9  | 992.3  | 1005.6 | 1012.0 | 1019.4 | 1025.8 |
| 1039.1 | 12.5° | 1024.8 | 1018.4 | 1007.1 | 1008.1 | 1013.0 | 1024.3 | 1037.1 | 1045.0 | 1049.9 | 1054.9 |
| 1073.6 | 15°   | 1058.8 | 1047.5 | 1035.2 | 1035.2 | 1044.0 | 1056.3 | 1062.2 | 1068.6 | 1071.6 | 1077.0 |
| 1110.5 | 17.5° | 1093.7 | 1079.0 | 1062.7 | 1061.7 | 1072.6 | 1078.5 | 1081.9 | 1082.9 | 1083.9 | 1089.8 |
| 1146.4 | 20°   | 1128.7 | 1112.4 | 1089.3 | 1087.3 | 1089.8 | 1088.8 | 1088.3 | 1087.3 | 1088.8 | 1096.2 |
| 1183.3 | 22.5° | 1163.1 | 1144.4 | 1112.4 | 1103.6 | 1096.7 | 1087.3 | 1086.9 | 1086.4 | 1087.3 | 1094.7 |
| 1223.2 | 25°   | 1203.5 | 1180.9 | 1138.0 | 1111.5 | 1088.3 | 1075.5 | 1077.0 | 1077.5 | 1078.5 | 1084.4 |
| 1264.5 | 27.5° | 1247.3 | 1222.2 | 1161.7 | 1109.0 | 1067.2 | 1058.3 | 1055.8 | 1057.3 | 1060.8 | 1070.1 |
| 1305.9 | 30°   | 1291.1 | 1261.6 | 1183.3 | 1099.2 | 1040.6 | 1028.3 | 1020.4 | 1023.8 | 1034.7 | 1044.0 |
| 1341.8 | 32.5° | 1331.0 | 1301.5 | 1200.6 | 1077.5 | 1006.6 | 987.4  | 977.1  | 981.5  | 992.3  | 995.8  |
| 1381.7 | 35°   | 1377.8 | 1344.3 | 1207.9 | 1043.0 | 969.7  | 940.2  | 926.4  | 920.0  | 925.4  | 922.0  |
| 1428.5 | 37.5° | 1429.9 | 1395.0 | 1207.0 | 997.8  | 926.4  | 892.4  | 873.2  | 849.1  | 837.8  | 826.0  |
| 1497.4 | 40°   | 1507.2 | 1457.0 | 1195.1 | 943.1  | 872.7  | 841.7  | 807.3  | 766.4  | 740.8  | 717.7  |
| 1608.6 | 42.5° | 1612.6 | 1543.2 | 1173.5 | 883.1  | 812.2  | 783.1  | 736.4  | 688.6  | 648.3  | 609.9  |
| 1777.5 | 45°   | 1769.6 | 1655.9 | 1146.4 | 819.1  | 746.7  | 718.2  | 667.5  | 613.8  | 568.0  | 518.8  |
| 2017.2 | 47.5° | 1996.0 | 1807.5 | 1120.8 | 746.2  | 677.8  | 651.7  | 605.9  | 556.2  | 502.1  | 454.3  |
| 2363.7 | 50°   | 2307.1 | 2025.0 | 1097.2 | 675.3  | 609.9  | 590.2  | 553.8  | 503.1  | 448.4  | 410.0  |
| 2769.8 | 52.5° | 2702.9 | 2320.9 | 1087.3 | 606.9  | 546.4  | 539.0  | 510.0  | 462.7  | 411.0  | 378.5  |
| 3243.3 | 55°   | 3157.2 | 2674.8 | 1087.3 | 541.5  | 490.8  | 493.2  | 473.0  | 429.2  | 384.4  | 355.4  |
| 3731.6 | 57.5° | 3620.9 | 3033.1 | 1067.7 | 480.9  | 443.5  | 453.8  | 441.0  | 402.6  | 362.3  | 332.3  |
| 4245.0 | 60°   | 4048.1 | 3333.4 | 987.9  | 425.8  | 401.7  | 417.9  | 409.5  | 376.6  | 327.3  | 302.2  |
| 4674.3 | 62.5° | 4376.5 | 3502.7 | 834.3  | 382.0  | 367.2  | 385.9  | 381.5  | 342.1  | 320.9  | 310.6  |
| 5026.7 | 65°   | 4540.9 | 3475.2 | 637.9  | 343.1  | 338.2  | 367.2  | 357.9  | 356.4  | 339.6  | 327.8  |
| 5141.4 | 67.5° | 4439.9 | 3237.9 | 462.7  | 314.5  | 321.4  | 350.0  | 385.9  | 391.8  | 360.8  | 337.7  |
| 4818.5 | 70°   | 3997.4 | 2808.7 | 344.6  | 287.5  | 300.3  | 350.5  | 440.1  | 410.0  | 353.9  | 326.8  |
| 3864.5 | 72.5° | 3041.0 | 2094.5 | 267.3  | 258.9  | 272.7  | 352.9  | 464.2  | 401.7  | 334.2  | 361.3  |
| 2407.5 | 75°   | 1739.1 | 1149.9 | 214.6  | 224.0  | 238.2  | 329.8  | 451.9  | 380.0  | 319.0  | 331.8  |
| 953.9  | 77.5° | 663.0  | 442.0  | 177.2  | 189.5  | 191.5  | 288.0  | 432.2  | 378.5  | 303.7  | 296.3  |
| 286.0  | 80°   | 229.9  | 172.8  | 146.7  | 150.6  | 148.2  | 256.0  | 414.5  | 329.3  | 248.6  | 222.5  |
| 118.1  | 82.5° | 94.0   | 86.1   | 116.2  | 111.2  | 105.3  | 198.9  | 334.7  | 269.3  | 203.3  | 179.7  |
| 57.1   | 85°   | 40.9   | 54.6   | 76.8   | 67.4   | 61.0   | 137.8  | 268.3  | 227.9  | 171.8  | 148.2  |
| 18.7   | 87.5° | 8.4    | 20.7   | 32.5   | 30.5   | 31.5   | 92.0   | 190.5  | 161.9  | 121.6  | 91.1   |
| 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°  
942.6  
940.2  
958.4  
989.4  
1024.3  
1056.8  
1079.0  
1091.8  
1099.2  
1099.7  
1092.3  
1079.5  
1054.4  
1008.1  
932.8  
833.4  
719.2  
606.4  
512.9  
448.9  
407.6  
376.1  
352.4  
327.3  
298.3  
307.2  
323.9  
333.7  
322.4  
358.3  
331.8  
270.2  
215.1  
177.7  
147.7  
71.4  
0.0

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