

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: P945921

Luminaire Tested: **GALN-SB1D-722-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P945921  
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-SB1D-722-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8393 lumens  
Efficiency: N/A  
Efficacy: 105.4 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



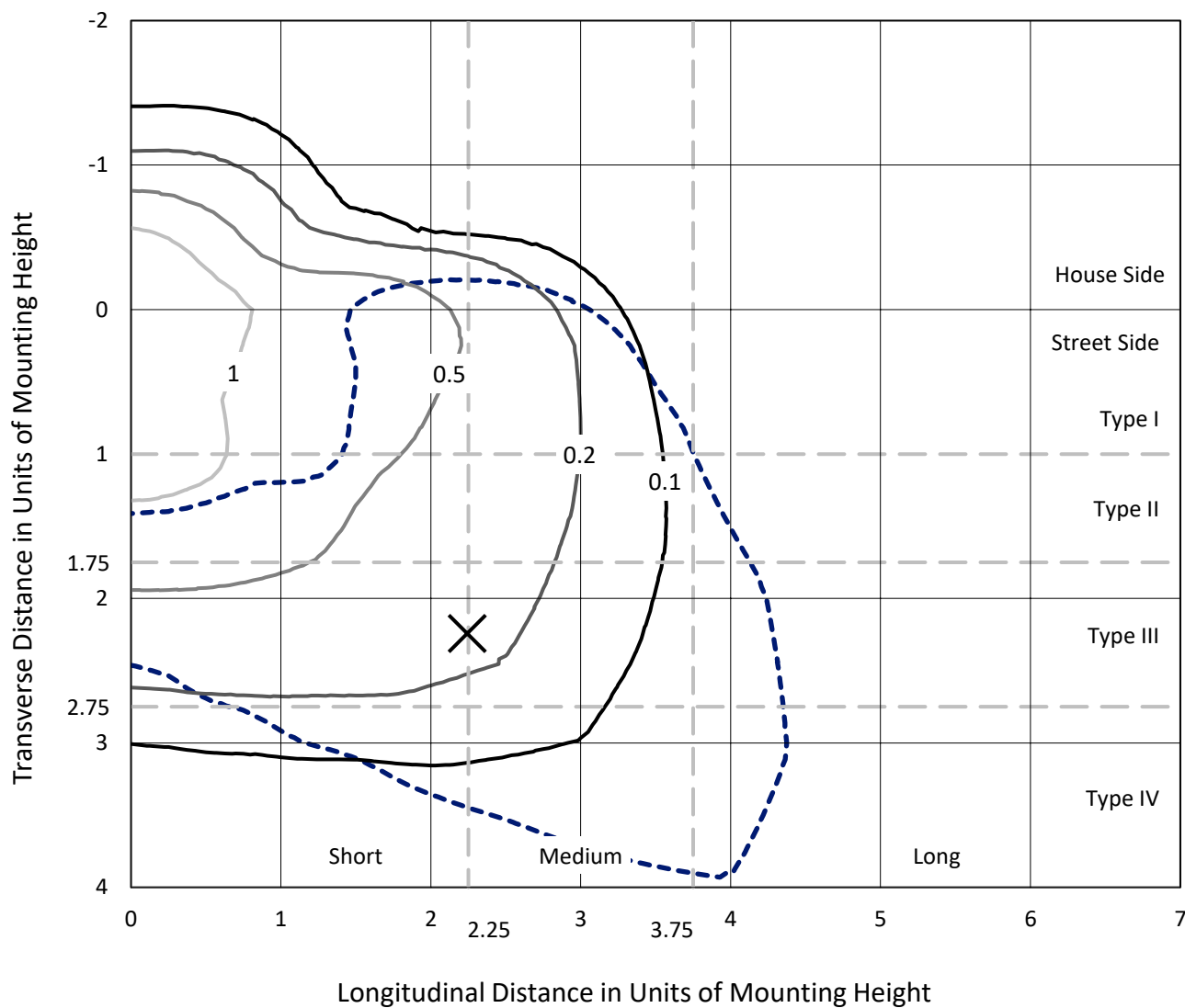
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

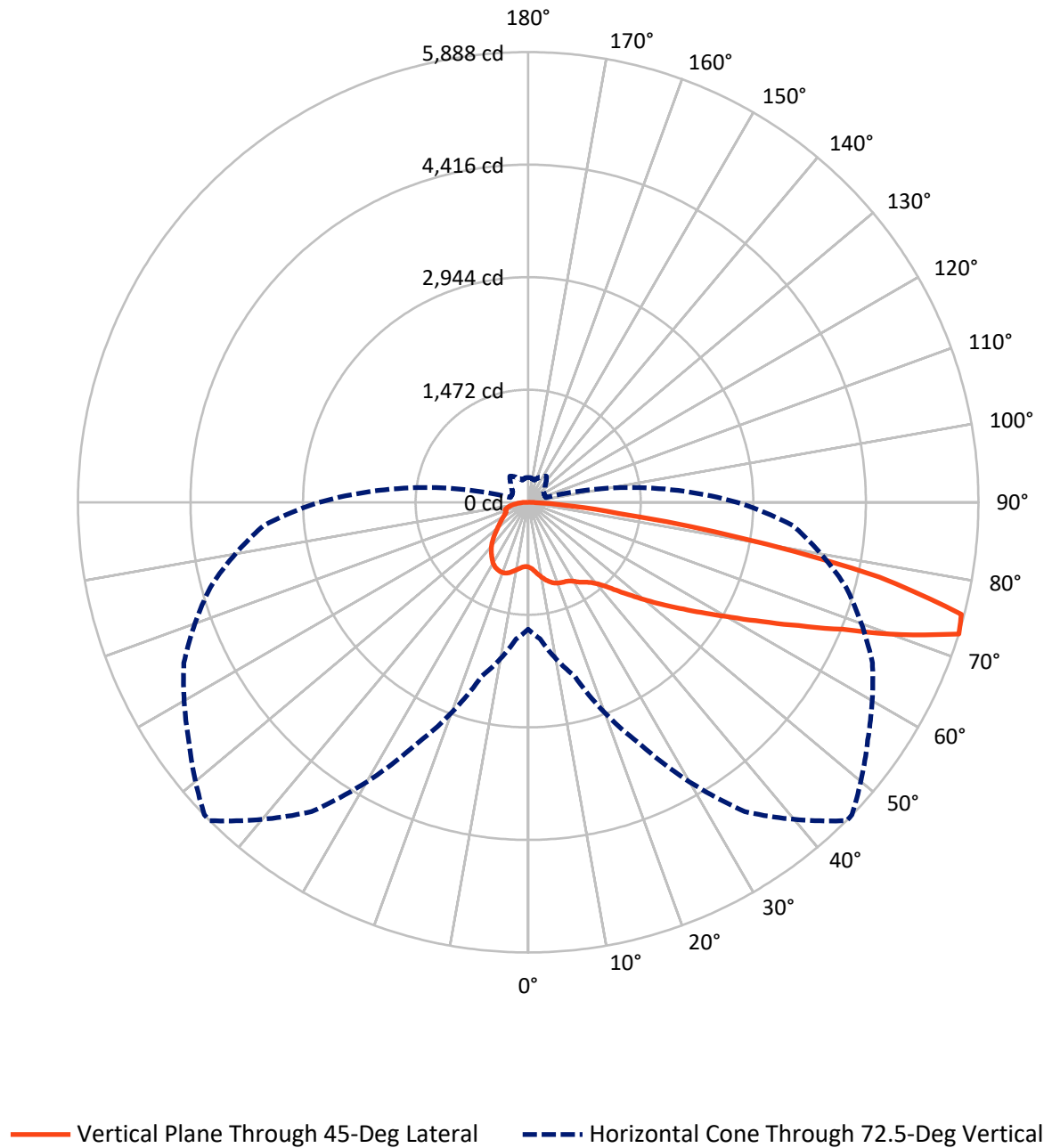


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1897.4   | 0.0    | 1897.4 |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 6495.6   | 0.0    | 6495.6 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 8393.0   | 0.0    | 8393.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.2   | 1.0       |
| 10°-20°   | 287.3  | 3.4       |
| 20°-30°   | 499.8  | 6.0       |
| 30°-40°   | 716.5  | 8.5       |
| 40°-50°   | 1008.9 | 12.0      |
| 50°-60°   | 1545.3 | 18.4      |
| 60°-70°   | 2238.6 | 26.7      |
| 70°-80°   | 1787.7 | 21.3      |
| 80°-90°   | 222.6  | 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°    | 8393.0 | 100.0     |
| 0°-180°   | 8393.0 | 100.0     |

**Coefficient of Utilization**



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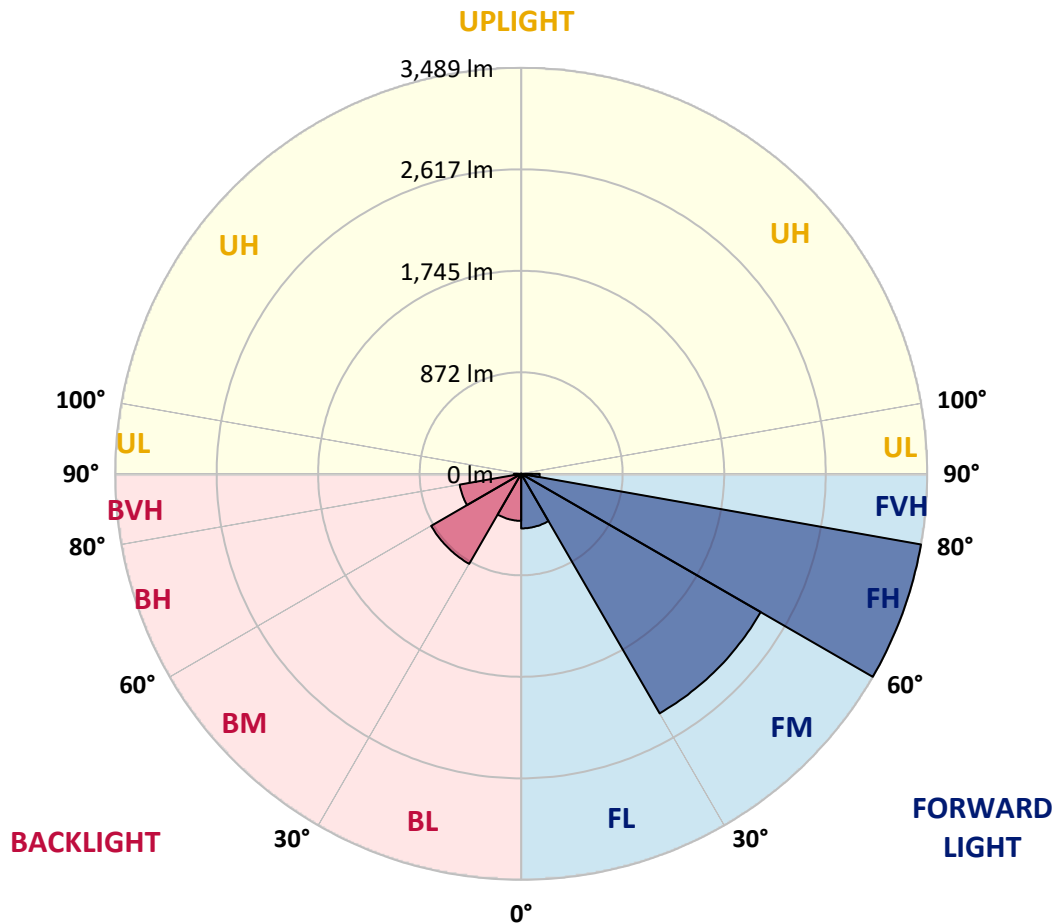
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 469.3  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2377.3 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 3489.2 | 41.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 159.7  | 1.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 404.0  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 893.4  | 10.6      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 537.1  | 6.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 62.9   | 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°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 846.7  | 846.7  | 846.7  | 846.7  | 846.7  | 846.7  | 846.7  | 846.7  | 846.7  | 846.7  | 846.7  |
| 2.5°  | 879.9  | 885.6  | 880.3  | 875.4  | 873.2  | 867.5  | 867.0  | 863.5  | 861.3  | 855.1  | 853.3  |
| 5°    | 941.3  | 948.8  | 940.0  | 930.3  | 921.4  | 907.3  | 905.5  | 895.3  | 883.8  | 870.6  | 863.0  |
| 7.5°  | 1010.7 | 1017.4 | 1007.2 | 992.6  | 977.1  | 953.7  | 953.2  | 934.7  | 916.5  | 894.0  | 881.2  |
| 10°   | 1071.3 | 1080.1 | 1066.4 | 1046.5 | 1027.1 | 1000.6 | 997.5  | 976.2  | 953.2  | 924.1  | 904.6  |
| 12.5° | 1124.8 | 1131.0 | 1117.7 | 1093.4 | 1070.9 | 1044.3 | 1040.3 | 1016.9 | 991.3  | 958.1  | 933.3  |
| 15°   | 1167.2 | 1175.2 | 1157.5 | 1131.4 | 1107.6 | 1081.5 | 1077.9 | 1056.7 | 1031.1 | 996.1  | 964.3  |
| 17.5° | 1195.1 | 1201.7 | 1183.6 | 1154.4 | 1131.4 | 1109.8 | 1107.1 | 1089.4 | 1066.9 | 1031.5 | 997.5  |
| 20°   | 1205.7 | 1212.8 | 1193.8 | 1164.1 | 1142.9 | 1126.1 | 1124.8 | 1112.0 | 1096.5 | 1064.2 | 1029.7 |
| 22.5° | 1216.3 | 1222.9 | 1198.2 | 1167.2 | 1148.7 | 1138.1 | 1137.6 | 1129.2 | 1123.0 | 1096.5 | 1062.9 |
| 25°   | 1259.2 | 1261.0 | 1227.8 | 1183.2 | 1156.6 | 1147.3 | 1146.9 | 1146.5 | 1149.1 | 1128.3 | 1098.7 |
| 27.5° | 1296.3 | 1295.9 | 1267.6 | 1225.6 | 1184.5 | 1165.0 | 1164.6 | 1169.0 | 1177.4 | 1160.2 | 1135.8 |
| 30°   | 1350.7 | 1345.9 | 1312.3 | 1268.5 | 1230.9 | 1200.8 | 1198.2 | 1194.2 | 1200.8 | 1187.1 | 1173.0 |
| 32.5° | 1466.1 | 1450.6 | 1396.3 | 1318.4 | 1269.4 | 1246.4 | 1242.8 | 1218.1 | 1220.7 | 1212.3 | 1205.3 |
| 35°   | 1631.5 | 1611.1 | 1538.6 | 1413.1 | 1317.1 | 1284.4 | 1282.6 | 1251.2 | 1245.9 | 1238.4 | 1241.1 |
| 37.5° | 1828.2 | 1803.0 | 1718.6 | 1550.1 | 1399.4 | 1328.6 | 1326.0 | 1297.7 | 1276.0 | 1268.0 | 1283.1 |
| 40°   | 2025.9 | 1994.0 | 1924.2 | 1717.3 | 1520.5 | 1402.5 | 1394.1 | 1351.2 | 1326.4 | 1313.1 | 1345.0 |
| 42.5° | 2217.8 | 2191.2 | 2131.5 | 1904.7 | 1669.9 | 1510.3 | 1491.8 | 1418.4 | 1399.8 | 1387.4 | 1444.9 |
| 45°   | 2387.5 | 2363.7 | 2319.9 | 2105.0 | 1845.0 | 1657.1 | 1639.0 | 1519.2 | 1513.4 | 1513.4 | 1596.6 |
| 47.5° | 2525.5 | 2520.2 | 2473.8 | 2309.3 | 2051.5 | 1824.3 | 1792.9 | 1659.3 | 1674.8 | 1698.7 | 1811.9 |
| 50°   | 2678.5 | 2663.9 | 2614.3 | 2510.4 | 2294.2 | 2015.7 | 1990.1 | 1831.3 | 1889.2 | 1954.7 | 2123.1 |
| 52.5° | 2819.1 | 2827.0 | 2771.8 | 2720.0 | 2568.4 | 2229.2 | 2184.2 | 2034.3 | 2159.4 | 2267.7 | 2487.9 |
| 55°   | 2963.6 | 2964.1 | 2948.6 | 2941.5 | 2855.8 | 2465.4 | 2415.8 | 2278.3 | 2477.3 | 2611.7 | 2913.2 |
| 57.5° | 3099.4 | 3100.3 | 3123.2 | 3185.6 | 3189.1 | 2737.7 | 2681.6 | 2578.1 | 2830.6 | 2967.6 | 3351.8 |
| 60°   | 3220.5 | 3226.7 | 3289.5 | 3435.4 | 3482.3 | 3049.9 | 2996.8 | 2932.2 | 3195.8 | 3333.7 | 3813.0 |
| 62.5° | 3261.2 | 3283.7 | 3423.5 | 3630.8 | 3771.9 | 3432.7 | 3380.6 | 3342.1 | 3579.5 | 3707.8 | 4198.5 |
| 65°   | 3192.2 | 3244.0 | 3514.1 | 3792.2 | 4069.9 | 3887.7 | 3836.0 | 3794.0 | 3978.3 | 4099.0 | 4515.1 |
| 67.5° | 3022.9 | 3089.6 | 3508.8 | 3961.5 | 4431.5 | 4435.1 | 4386.9 | 4288.3 | 4405.9 | 4452.3 | 4618.1 |
| 70°   | 2576.8 | 2676.7 | 3199.7 | 4024.8 | 4846.7 | 5183.6 | 5137.2 | 4883.4 | 4832.5 | 4607.9 | 4328.1 |
| 72.5° | 1660.2 | 1794.6 | 2356.1 | 3504.4 | 4939.1 | 5887.9 | 5885.3 | 5420.6 | 4967.4 | 4305.5 | 3471.2 |
| 75°   | 605.7  | 688.0  | 1094.7 | 2199.6 | 4145.9 | 5852.1 | 5869.4 | 5328.6 | 4534.5 | 3325.7 | 2162.5 |
| 77.5° | 220.6  | 241.4  | 357.2  | 845.4  | 2549.8 | 4695.5 | 4731.3 | 4260.0 | 3227.6 | 1669.1 | 856.9  |
| 80°   | 115.8  | 127.3  | 183.0  | 328.1  | 1092.5 | 2788.6 | 2844.7 | 2531.7 | 1517.0 | 502.7  | 256.9  |
| 82.5° | 64.1   | 69.4   | 102.6  | 178.2  | 492.1  | 1192.4 | 1226.0 | 1000.1 | 533.7  | 213.1  | 106.1  |
| 85°   | 34.5   | 36.7   | 48.2   | 97.3   | 240.5  | 413.4  | 422.7  | 298.9  | 212.7  | 125.1  | 51.3   |
| 87.5° | 10.2   | 12.4   | 15.9   | 30.9   | 94.2   | 92.8   | 95.1   | 59.2   | 84.0   | 63.2   | 16.8   |
| 90°   | 0.0    | 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):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 846.7  | 846.7  | 846.7  | 846.7 | 846.7 | 846.7 | 846.7 | 846.7 | 846.7 | 846.7 | 846.7 |
| 2.5°  | 850.7  | 849.3  | 844.5  | 842.3 | 839.6 | 839.2 | 841.4 | 841.8 | 842.3 | 842.7 | 844.5 |
| 5°    | 858.6  | 854.2  | 849.8  | 847.1 | 848.0 | 848.5 | 852.9 | 856.0 | 858.2 | 860.0 | 860.8 |
| 7.5°  | 874.1  | 870.6  | 863.0  | 862.6 | 863.9 | 867.9 | 873.7 | 880.7 | 884.7 | 887.8 | 888.7 |
| 10°   | 897.1  | 890.5  | 881.6  | 882.9 | 885.6 | 891.3 | 903.3 | 909.0 | 915.7 | 921.4 | 920.1 |
| 12.5° | 920.5  | 914.8  | 904.6  | 905.5 | 909.9 | 920.1 | 931.6 | 938.7 | 943.1 | 947.5 | 949.3 |
| 15°   | 951.0  | 940.9  | 929.8  | 929.8 | 937.8 | 948.8 | 954.1 | 959.9 | 962.5 | 967.4 | 969.2 |
| 17.5° | 982.4  | 969.2  | 954.6  | 953.7 | 963.4 | 968.7 | 971.8 | 972.7 | 973.6 | 978.9 | 980.7 |
| 20°   | 1013.8 | 999.2  | 978.4  | 976.7 | 978.9 | 978.0 | 977.6 | 976.7 | 978.0 | 984.6 | 987.3 |
| 22.5° | 1044.8 | 1028.0 | 999.2  | 991.3 | 985.1 | 976.7 | 976.2 | 975.8 | 976.7 | 983.3 | 987.7 |
| 25°   | 1081.0 | 1060.7 | 1022.2 | 998.3 | 977.6 | 966.1 | 967.4 | 967.8 | 968.7 | 974.0 | 981.1 |
| 27.5° | 1120.4 | 1097.8 | 1043.4 | 996.1 | 958.6 | 950.6 | 948.4 | 949.7 | 952.8 | 961.2 | 969.6 |
| 30°   | 1159.7 | 1133.2 | 1062.9 | 987.3 | 934.7 | 923.6 | 916.5 | 919.6 | 929.4 | 937.8 | 947.1 |
| 32.5° | 1195.5 | 1169.0 | 1078.4 | 967.8 | 904.2 | 886.9 | 877.6 | 881.6 | 891.3 | 894.4 | 905.5 |
| 35°   | 1237.5 | 1207.5 | 1085.0 | 936.9 | 871.0 | 844.5 | 832.1 | 826.4 | 831.2 | 828.1 | 837.8 |
| 37.5° | 1284.4 | 1253.0 | 1084.1 | 896.2 | 832.1 | 801.6 | 784.3 | 762.7 | 752.5 | 741.9 | 748.5 |
| 40°   | 1353.8 | 1308.7 | 1073.5 | 847.1 | 783.9 | 756.1 | 725.1 | 688.4 | 665.4 | 644.6 | 646.0 |
| 42.5° | 1448.4 | 1386.1 | 1054.1 | 793.2 | 729.5 | 703.4 | 661.4 | 618.5 | 582.3 | 547.8 | 544.7 |
| 45°   | 1589.5 | 1487.3 | 1029.7 | 735.7 | 670.7 | 645.1 | 599.5 | 551.3 | 510.2 | 466.0 | 460.7 |
| 47.5° | 1792.9 | 1623.5 | 1006.7 | 670.3 | 608.8 | 585.4 | 544.3 | 499.6 | 451.0 | 408.1 | 403.2 |
| 50°   | 2072.3 | 1818.9 | 985.5  | 606.6 | 547.8 | 530.1 | 497.4 | 451.9 | 402.8 | 368.3 | 366.1 |
| 52.5° | 2427.8 | 2084.7 | 976.7  | 545.2 | 490.8 | 484.1 | 458.1 | 415.6 | 369.2 | 340.0 | 337.8 |
| 55°   | 2835.9 | 2402.6 | 976.7  | 486.3 | 440.8 | 443.0 | 424.9 | 385.5 | 345.3 | 319.2 | 316.6 |
| 57.5° | 3252.4 | 2724.4 | 959.0  | 432.0 | 398.4 | 407.6 | 396.2 | 361.7 | 325.4 | 298.4 | 294.0 |
| 60°   | 3636.1 | 2994.1 | 887.4  | 382.4 | 360.8 | 375.4 | 367.9 | 338.2 | 294.0 | 271.5 | 267.9 |
| 62.5° | 3931.0 | 3146.2 | 749.4  | 343.1 | 329.8 | 346.6 | 342.7 | 307.3 | 288.3 | 279.0 | 275.9 |
| 65°   | 4078.7 | 3121.5 | 573.0  | 308.2 | 303.7 | 329.8 | 321.4 | 320.1 | 305.1 | 294.5 | 290.9 |
| 67.5° | 3988.1 | 2908.4 | 415.6  | 282.5 | 288.7 | 314.4 | 346.6 | 351.9 | 324.1 | 303.3 | 299.8 |
| 70°   | 3590.6 | 2522.8 | 309.5  | 258.2 | 269.7 | 314.8 | 395.3 | 368.3 | 317.9 | 293.6 | 289.6 |
| 72.5° | 2731.5 | 1881.3 | 240.1  | 232.6 | 244.9 | 317.0 | 416.9 | 360.8 | 300.2 | 324.5 | 321.9 |
| 75°   | 1562.1 | 1032.8 | 192.8  | 201.2 | 214.0 | 296.2 | 405.9 | 341.3 | 286.5 | 298.0 | 298.0 |
| 77.5° | 595.6  | 397.0  | 159.2  | 170.2 | 172.0 | 258.6 | 388.2 | 340.0 | 272.8 | 266.2 | 242.7 |
| 80°   | 206.5  | 155.2  | 131.8  | 135.3 | 133.1 | 229.9 | 372.3 | 295.8 | 223.3 | 199.8 | 193.2 |
| 82.5° | 84.4   | 77.4   | 104.3  | 99.9  | 94.6  | 178.6 | 300.7 | 241.8 | 182.6 | 161.4 | 159.6 |
| 85°   | 36.7   | 49.1   | 69.0   | 60.6  | 54.8  | 123.8 | 241.0 | 204.7 | 154.3 | 133.1 | 132.6 |
| 87.5° | 7.5    | 18.6   | 29.2   | 27.4  | 28.3  | 82.7  | 171.1 | 145.5 | 109.2 | 81.8  | 64.1  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)