

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: P451336

Luminaire Tested: **GALN-SA2B-722-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-722-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7251 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

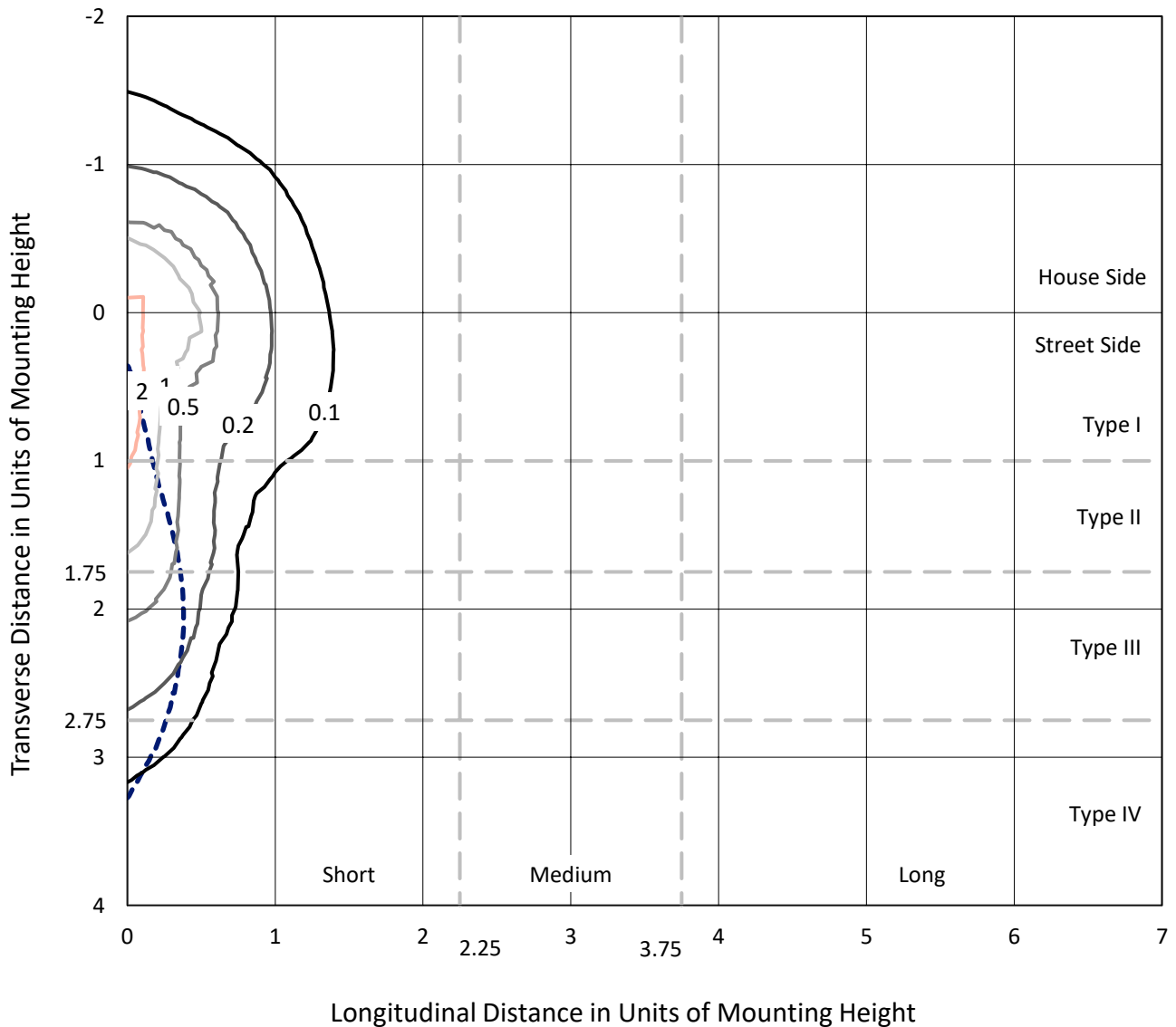
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

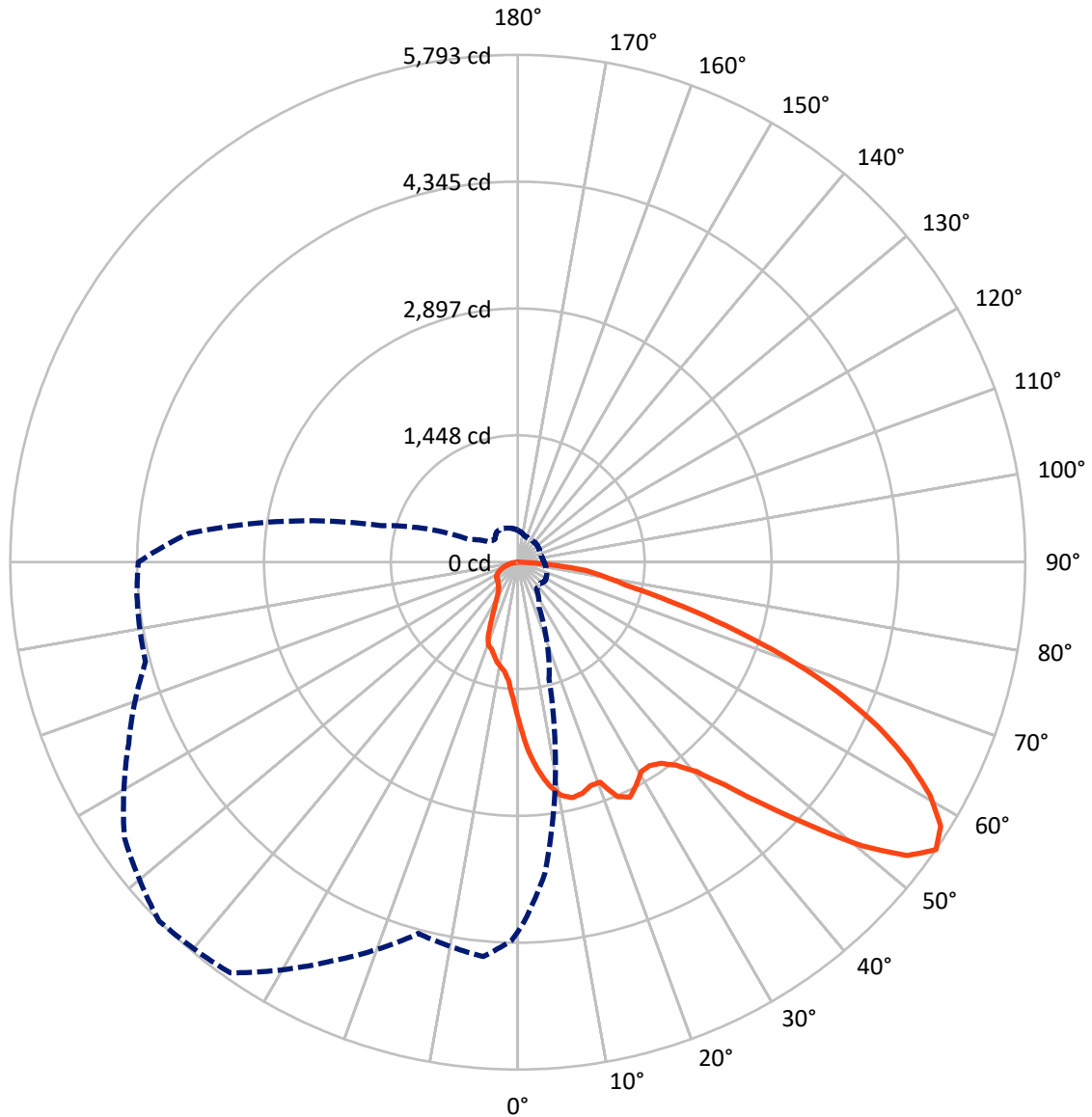
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1586.1   | 0.0    | 1586.1 |
|                    | % Fixture | 21.9     | 0.0    | 21.9   |
| <b>Street Side</b> | Lumens    | 5664.9   | 0.0    | 5664.9 |
|                    | % Fixture | 78.1     | 0.0    | 78.1   |
| <b>Total</b>       | Lumens    | 7251.0   | 0.0    | 7251.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 154.2  | 2.1       |
| 10°-20°   | 409.2  | 5.6       |
| 20°-30°   | 706.9  | 9.7       |
| 30°-40°   | 821.5  | 11.3      |
| 40°-50°   | 1146.1 | 15.8      |
| 50°-60°   | 1555.2 | 21.4      |
| 60°-70°   | 1479.6 | 20.4      |
| 70°-80°   | 799.3  | 11.0      |
| 80°-90°   | 179.1  | 2.5       |
| 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°    | 7251.0 | 100.0     |
| 0°-180°   | 7251.0 | 100.0     |

**Coefficient of Utilization**



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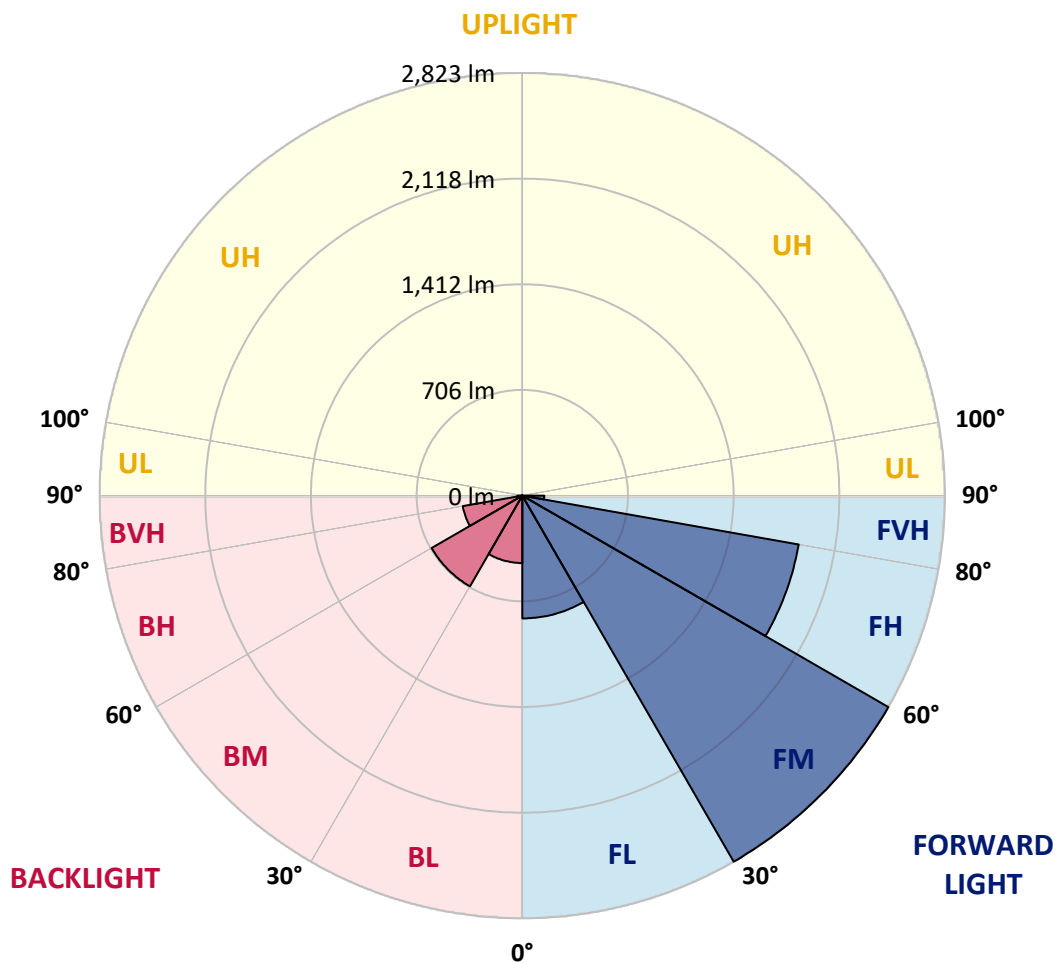
CATALOG NUMBER: GALN-SA2B-722-U-SLR

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 820.1  | 11.3      |                         |      |         |
| FM   | (30°-60°)   | 2823.4 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 1875.0 | 25.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 146.4  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 450.1  | 6.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 699.4  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 403.9  | 5.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 32.7   | 0.5       |                         |      | G1/100  |
| 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°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 |
| 2.5°  | 2021.6 | 2013.9 | 1992.4 | 1936.0 | 1879.0 | 1821.2 | 1776.7 | 1721.2 | 1663.3 | 1632.2 | 1592.5 |
| 5°    | 2049.3 | 2040.7 | 1990.0 | 1862.8 | 1747.5 | 1626.5 | 1529.8 | 1445.2 | 1410.7 | 1360.0 | 1319.3 |
| 7.5°  | 1984.3 | 1980.4 | 1904.4 | 1721.7 | 1563.8 | 1405.4 | 1295.9 | 1228.0 | 1166.3 | 1143.3 | 1148.1 |
| 10°   | 1925.0 | 1909.7 | 1814.5 | 1575.7 | 1391.6 | 1262.9 | 1184.4 | 1117.9 | 1074.4 | 1062.9 | 1065.3 |
| 12.5° | 1875.7 | 1855.1 | 1742.7 | 1477.7 | 1316.5 | 1213.6 | 1113.6 | 1044.3 | 1004.6 | 1015.6 | 1052.9 |
| 15°   | 1865.6 | 1837.9 | 1712.6 | 1444.2 | 1275.3 | 1142.8 | 1033.3 | 953.4  | 923.7  | 947.7  | 1007.4 |
| 17.5° | 1930.7 | 1895.8 | 1764.2 | 1455.2 | 1236.1 | 1070.6 | 936.2  | 844.8  | 819.9  | 858.2  | 936.2  |
| 20°   | 2139.7 | 2088.1 | 1925.4 | 1518.8 | 1232.3 | 1034.7 | 879.7  | 787.9  | 798.4  | 871.1  | 952.4  |
| 22.5° | 2526.3 | 2448.8 | 2207.7 | 1611.6 | 1252.4 | 1025.6 | 868.2  | 820.4  | 878.3  | 940.0  | 993.6  |
| 25°   | 2602.8 | 2542.1 | 2258.4 | 1632.7 | 1248.1 | 1019.4 | 900.8  | 924.7  | 989.3  | 1019.9 | 1001.2 |
| 27.5° | 2645.9 | 2576.5 | 2255.0 | 1528.4 | 1116.0 | 924.7  | 861.1  | 900.8  | 917.0  | 887.4  | 836.7  |
| 30°   | 2746.3 | 2674.1 | 2312.0 | 1418.8 | 918.9  | 686.0  | 601.3  | 585.0  | 596.0  | 601.8  | 583.6  |
| 32.5° | 2884.6 | 2813.3 | 2419.1 | 1347.1 | 794.6  | 567.3  | 484.1  | 461.1  | 455.9  | 449.7  | 442.5  |
| 35°   | 3063.5 | 2953.9 | 2524.4 | 1301.2 | 743.4  | 524.8  | 448.2  | 430.5  | 423.4  | 414.7  | 407.1  |
| 37.5° | 3245.3 | 3130.5 | 2657.3 | 1252.8 | 709.4  | 495.1  | 424.3  | 416.2  | 403.7  | 394.7  | 383.7  |
| 40°   | 3438.5 | 3309.8 | 2778.4 | 1210.8 | 676.4  | 476.0  | 407.1  | 406.1  | 389.9  | 379.3  | 366.4  |
| 42.5° | 3605.9 | 3473.4 | 2886.5 | 1184.9 | 651.1  | 455.9  | 396.6  | 399.4  | 382.7  | 366.9  | 350.2  |
| 45°   | 3738.9 | 3608.8 | 2986.5 | 1184.9 | 630.5  | 435.8  | 394.7  | 392.7  | 376.0  | 356.4  | 337.3  |
| 47.5° | 3855.7 | 3721.2 | 3084.0 | 1215.1 | 617.6  | 419.1  | 384.1  | 387.5  | 370.3  | 345.4  | 326.7  |
| 50°   | 3946.1 | 3827.4 | 3215.6 | 1261.9 | 604.7  | 405.7  | 370.7  | 388.9  | 365.5  | 339.6  | 318.1  |
| 52.5° | 4061.4 | 3955.2 | 3373.9 | 1326.0 | 593.7  | 390.8  | 358.8  | 388.9  | 365.0  | 340.1  | 316.7  |
| 55°   | 4221.1 | 4109.2 | 3564.8 | 1379.1 | 576.0  | 377.0  | 348.3  | 377.9  | 363.6  | 337.7  | 312.9  |
| 57.5° | 4333.1 | 4249.4 | 3699.7 | 1414.5 | 550.6  | 359.3  | 338.7  | 367.4  | 357.3  | 328.6  | 301.4  |
| 58°   | 4338.3 | 4256.5 | 3719.3 | 1422.7 | 544.4  | 355.9  | 336.3  | 362.6  | 354.5  | 324.8  | 297.5  |
| 60°   | 4278.1 | 4207.7 | 3723.2 | 1411.2 | 509.0  | 339.2  | 323.9  | 343.0  | 339.2  | 302.3  | 277.0  |
| 62.5° | 4059.0 | 3983.9 | 3568.6 | 1317.9 | 462.1  | 318.6  | 304.7  | 316.7  | 308.1  | 270.8  | 247.3  |
| 65°   | 3747.5 | 3609.3 | 3251.0 | 1171.5 | 428.6  | 296.6  | 278.9  | 279.8  | 270.8  | 244.0  | 223.4  |
| 67.5° | 3332.8 | 3178.3 | 2752.5 | 987.4  | 403.3  | 272.2  | 248.3  | 245.9  | 234.9  | 217.7  | 200.9  |
| 70°   | 2822.4 | 2716.7 | 2236.9 | 803.2  | 375.0  | 245.4  | 213.8  | 212.4  | 205.7  | 192.8  | 178.0  |
| 72.5° | 2287.6 | 2153.1 | 1806.3 | 642.9  | 340.6  | 219.6  | 181.8  | 184.7  | 176.0  | 167.0  | 153.6  |
| 75°   | 1688.2 | 1600.1 | 1396.4 | 515.7  | 294.2  | 191.3  | 151.6  | 152.6  | 148.8  | 139.2  | 128.7  |
| 77.5° | 1111.7 | 1085.4 | 998.8  | 338.7  | 226.3  | 152.1  | 123.9  | 124.9  | 122.0  | 113.4  | 102.4  |
| 80°   | 748.2  | 730.5  | 676.9  | 218.1  | 151.2  | 110.0  | 95.7   | 96.6   | 96.2   | 87.1   | 72.2   |
| 82.5° | 461.1  | 453.5  | 436.3  | 147.3  | 104.8  | 78.9   | 63.1   | 66.0   | 71.3   | 61.2   | 49.3   |
| 85°   | 217.7  | 218.1  | 263.6  | 80.4   | 61.7   | 50.7   | 34.4   | 36.8   | 36.8   | 36.8   | 27.7   |
| 87.5° | 28.2   | 29.7   | 36.4   | 34.0   | 22.5   | 19.1   | 12.4   | 10.5   | 9.1    | 12.0   | 8.6    |
| 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°    | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 |
| 2.5°  | 1578.6 | 1569.1 | 1548.5 | 1543.7 | 1540.8 | 1549.0 | 1527.4 | 1533.2 | 1523.6 | 1550.4 | 1546.1 |
| 5°    | 1321.7 | 1322.7 | 1339.4 | 1350.4 | 1354.3 | 1350.4 | 1336.1 | 1311.2 | 1292.1 | 1284.4 | 1286.3 |
| 7.5°  | 1139.0 | 1155.7 | 1184.4 | 1216.5 | 1245.7 | 1254.3 | 1246.2 | 1198.8 | 1147.1 | 1114.6 | 1104.1 |
| 10°   | 1078.2 | 1100.7 | 1133.7 | 1159.1 | 1184.9 | 1205.5 | 1209.8 | 1173.0 | 1111.7 | 1034.7 | 1004.6 |
| 12.5° | 1081.6 | 1112.2 | 1143.8 | 1151.9 | 1149.5 | 1157.7 | 1153.8 | 1147.6 | 1107.4 | 1009.4 | 959.1  |
| 15°   | 1050.0 | 1086.4 | 1108.4 | 1104.1 | 1096.4 | 1089.2 | 1079.2 | 1063.4 | 1049.1 | 980.2  | 924.7  |
| 17.5° | 977.3  | 1014.6 | 1032.8 | 1034.2 | 1034.2 | 1032.3 | 1007.9 | 1002.2 | 1000.3 | 966.8  | 932.8  |
| 20°   | 990.7  | 1011.3 | 1003.1 | 989.7  | 993.6  | 1006.5 | 992.1  | 989.3  | 1000.3 | 1015.1 | 1008.9 |
| 22.5° | 998.4  | 991.2  | 930.0  | 870.6  | 857.2  | 897.4  | 905.6  | 937.6  | 982.1  | 1035.7 | 1070.6 |
| 25°   | 951.0  | 893.1  | 783.6  | 716.6  | 678.8  | 716.1  | 764.9  | 824.2  | 890.7  | 959.6  | 1000.3 |
| 27.5° | 795.1  | 751.0  | 672.6  | 612.3  | 579.3  | 585.0  | 626.7  | 680.7  | 742.4  | 788.8  | 818.5  |
| 30°   | 598.9  | 579.3  | 538.6  | 518.1  | 498.0  | 493.2  | 510.9  | 531.5  | 558.7  | 564.5  | 572.1  |
| 32.5° | 441.1  | 438.2  | 440.6  | 433.9  | 430.1  | 429.6  | 424.3  | 429.1  | 432.0  | 435.3  | 428.6  |
| 35°   | 399.0  | 395.1  | 388.4  | 386.5  | 384.1  | 385.1  | 382.7  | 380.3  | 382.2  | 385.1  | 387.0  |
| 37.5° | 377.4  | 371.7  | 362.1  | 358.8  | 358.8  | 360.2  | 356.4  | 355.4  | 358.8  | 367.9  | 372.6  |
| 40°   | 360.7  | 354.0  | 343.0  | 338.7  | 341.6  | 345.4  | 340.1  | 338.2  | 346.3  | 355.9  | 363.6  |
| 42.5° | 344.9  | 339.6  | 329.1  | 324.3  | 326.7  | 333.9  | 326.2  | 324.8  | 335.3  | 345.9  | 355.0  |
| 45°   | 331.5  | 326.2  | 316.7  | 314.3  | 315.2  | 321.9  | 316.7  | 316.7  | 326.7  | 338.2  | 346.3  |
| 47.5° | 321.0  | 314.3  | 308.1  | 306.2  | 307.1  | 310.9  | 310.0  | 310.0  | 319.6  | 331.5  | 339.6  |
| 50°   | 310.5  | 304.7  | 296.6  | 297.5  | 299.9  | 305.2  | 304.7  | 306.2  | 315.7  | 330.6  | 339.2  |
| 52.5° | 305.7  | 297.1  | 288.0  | 288.9  | 296.1  | 302.3  | 300.4  | 301.9  | 312.9  | 340.6  | 353.0  |
| 55°   | 300.4  | 288.9  | 278.4  | 279.8  | 288.0  | 297.1  | 294.7  | 296.6  | 309.5  | 347.3  | 364.5  |
| 57.5° | 290.4  | 277.0  | 265.5  | 266.5  | 278.4  | 288.0  | 284.2  | 286.5  | 301.9  | 340.1  | 358.3  |
| 58°   | 286.1  | 274.6  | 263.6  | 264.1  | 275.5  | 286.1  | 281.8  | 283.7  | 299.5  | 338.2  | 355.4  |
| 60°   | 267.9  | 261.2  | 251.6  | 252.1  | 263.1  | 272.2  | 269.8  | 271.7  | 287.0  | 324.3  | 337.3  |
| 62.5° | 243.0  | 239.2  | 236.8  | 236.8  | 243.5  | 252.1  | 254.5  | 256.9  | 270.8  | 293.2  | 304.7  |
| 65°   | 216.2  | 216.2  | 216.7  | 216.7  | 221.0  | 232.0  | 233.4  | 239.7  | 252.6  | 263.6  | 272.2  |
| 67.5° | 198.0  | 197.1  | 198.0  | 195.7  | 197.6  | 204.3  | 211.4  | 217.2  | 230.6  | 238.2  | 241.1  |
| 70°   | 174.6  | 174.1  | 174.6  | 171.3  | 173.6  | 179.4  | 184.2  | 193.7  | 207.6  | 213.4  | 214.8  |
| 72.5° | 151.6  | 151.6  | 152.6  | 150.2  | 150.2  | 156.4  | 159.8  | 170.3  | 183.2  | 186.6  | 187.0  |
| 75°   | 127.7  | 129.2  | 129.2  | 125.8  | 126.8  | 130.6  | 134.9  | 143.5  | 155.5  | 157.9  | 157.9  |
| 77.5° | 101.4  | 106.7  | 106.7  | 103.3  | 104.8  | 105.2  | 111.0  | 115.3  | 124.4  | 125.3  | 121.5  |
| 80°   | 73.7   | 78.9   | 83.2   | 80.4   | 82.8   | 79.9   | 83.2   | 86.1   | 95.2   | 90.9   | 84.7   |
| 82.5° | 52.6   | 56.4   | 59.8   | 60.3   | 57.9   | 52.6   | 56.9   | 57.4   | 61.7   | 56.0   | 52.6   |
| 85°   | 29.2   | 32.5   | 36.8   | 34.9   | 31.1   | 27.7   | 29.2   | 30.1   | 29.7   | 28.2   | 26.3   |
| 87.5° | 7.7    | 8.1    | 9.1    | 6.7    | 6.2    | 5.3    | 7.2    | 7.2    | 8.1    | 8.6    | 8.1    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 |
| 2.5°  | 1549.4 | 1570.5 | 1615.9 | 1650.4 | 1692.5 | 1743.7 | 1803.9 | 1864.7 | 1930.2 | 1950.8 | 1979.5 |
| 5°    | 1282.0 | 1334.7 | 1356.7 | 1419.3 | 1481.5 | 1574.8 | 1674.3 | 1789.6 | 1915.9 | 1976.6 | 2035.0 |
| 7.5°  | 1095.5 | 1123.7 | 1146.7 | 1192.6 | 1267.2 | 1380.6 | 1505.4 | 1649.4 | 1828.3 | 1916.8 | 2002.5 |
| 10°   | 995.0  | 997.9  | 1026.1 | 1083.0 | 1148.1 | 1248.1 | 1366.2 | 1527.4 | 1726.9 | 1834.5 | 1935.0 |
| 12.5° | 928.5  | 916.1  | 946.7  | 1006.0 | 1079.7 | 1172.0 | 1280.6 | 1434.2 | 1653.7 | 1764.2 | 1885.7 |
| 15°   | 870.2  | 850.5  | 873.5  | 934.3  | 1007.0 | 1115.6 | 1232.3 | 1394.9 | 1625.0 | 1753.7 | 1888.6 |
| 17.5° | 871.6  | 817.5  | 825.7  | 876.9  | 949.1  | 1059.6 | 1201.2 | 1393.5 | 1668.6 | 1816.8 | 1976.6 |
| 20°   | 979.2  | 892.6  | 855.8  | 865.4  | 935.2  | 1055.8 | 1215.5 | 1460.5 | 1811.6 | 2027.8 | 2198.6 |
| 22.5° | 1084.9 | 1032.8 | 973.5  | 953.9  | 992.1  | 1118.4 | 1306.9 | 1618.8 | 2122.5 | 2448.3 | 2756.8 |
| 25°   | 1048.1 | 1092.6 | 1077.8 | 1050.0 | 1058.6 | 1163.4 | 1369.1 | 1748.9 | 2364.1 | 2731.0 | 3020.9 |
| 27.5° | 838.6  | 919.4  | 935.7  | 935.2  | 938.6  | 1024.7 | 1231.3 | 1661.4 | 2394.2 | 2785.1 | 3062.0 |
| 30°   | 589.4  | 596.5  | 605.1  | 621.9  | 637.2  | 714.2  | 963.4  | 1458.5 | 2380.8 | 2809.5 | 3086.9 |
| 32.5° | 425.3  | 434.8  | 446.8  | 469.8  | 506.1  | 604.2  | 842.9  | 1394.0 | 2451.6 | 2910.4 | 3159.6 |
| 35°   | 388.9  | 399.9  | 411.4  | 437.7  | 472.2  | 563.0  | 795.1  | 1367.2 | 2567.9 | 3074.0 | 3290.2 |
| 37.5° | 377.4  | 389.9  | 399.9  | 419.1  | 446.8  | 533.4  | 751.5  | 1349.0 | 2687.0 | 3247.2 | 3465.3 |
| 40°   | 369.3  | 383.7  | 391.8  | 407.1  | 426.2  | 506.1  | 712.8  | 1334.7 | 2802.3 | 3405.5 | 3605.9 |
| 42.5° | 362.1  | 377.0  | 387.5  | 398.5  | 414.3  | 481.7  | 678.3  | 1320.3 | 2902.3 | 3559.1 | 3746.1 |
| 45°   | 353.5  | 372.2  | 385.6  | 394.2  | 408.0  | 461.1  | 652.0  | 1308.8 | 3016.1 | 3695.4 | 3887.7 |
| 47.5° | 346.3  | 366.9  | 383.7  | 393.7  | 399.0  | 446.8  | 631.0  | 1324.6 | 3152.9 | 3838.0 | 4019.3 |
| 50°   | 346.8  | 366.4  | 387.5  | 403.3  | 389.4  | 434.8  | 618.1  | 1387.3 | 3330.9 | 4007.3 | 4123.1 |
| 52.5° | 362.1  | 386.0  | 402.8  | 406.6  | 376.0  | 420.5  | 611.4  | 1496.8 | 3541.4 | 4157.0 | 4227.8 |
| 55°   | 379.3  | 404.2  | 422.4  | 420.0  | 368.8  | 402.3  | 609.9  | 1613.5 | 3771.9 | 4331.6 | 4364.2 |
| 57.5° | 373.1  | 409.5  | 437.2  | 424.8  | 369.3  | 384.6  | 603.7  | 1707.8 | 3964.7 | 4462.2 | 4499.1 |
| 58°   | 371.2  | 407.6  | 439.1  | 423.8  | 367.9  | 379.3  | 602.3  | 1715.9 | 3991.5 | 4471.3 | 4518.2 |
| 60°   | 352.6  | 390.8  | 437.7  | 416.7  | 359.7  | 365.0  | 586.5  | 1742.2 | 3984.3 | 4424.4 | 4529.7 |
| 62.5° | 318.6  | 350.2  | 404.7  | 381.7  | 334.9  | 345.9  | 551.1  | 1709.7 | 3790.1 | 4198.6 | 4361.8 |
| 65°   | 280.3  | 303.8  | 340.1  | 335.8  | 299.5  | 326.2  | 502.8  | 1581.0 | 3401.2 | 3832.2 | 4004.0 |
| 67.5° | 251.6  | 270.8  | 293.7  | 287.5  | 269.3  | 299.9  | 450.6  | 1363.4 | 2964.9 | 3392.1 | 3608.3 |
| 70°   | 222.4  | 237.3  | 248.8  | 244.4  | 238.7  | 274.1  | 404.2  | 1106.5 | 2546.8 | 2974.0 | 3183.5 |
| 72.5° | 192.8  | 206.7  | 216.2  | 210.0  | 206.7  | 246.8  | 366.4  | 858.7  | 2011.5 | 2453.6 | 2722.9 |
| 75°   | 161.2  | 175.1  | 181.8  | 174.6  | 172.7  | 217.7  | 310.5  | 641.5  | 1509.3 | 1891.5 | 2124.0 |
| 77.5° | 124.9  | 139.7  | 148.3  | 145.9  | 146.9  | 178.9  | 250.7  | 439.1  | 1079.2 | 1289.2 | 1534.1 |
| 80°   | 87.5   | 103.8  | 109.5  | 107.2  | 113.9  | 136.3  | 177.0  | 278.9  | 744.3  | 836.7  | 1009.4 |
| 82.5° | 54.1   | 69.4   | 70.3   | 72.7   | 77.5   | 100.9  | 133.5  | 169.8  | 467.4  | 483.2  | 608.5  |
| 85°   | 27.3   | 33.0   | 35.4   | 39.2   | 43.5   | 61.7   | 76.1   | 105.2  | 300.9  | 227.7  | 340.1  |
| 87.5° | 9.1    | 9.6    | 11.5   | 14.4   | 17.7   | 25.4   | 32.5   | 43.1   | 74.6   | 41.1   | 105.2  |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 | 1819.7 |
| 2.5°  | 2037.4 | 2078.0 | 2107.7 | 2135.0 | 2108.7 | 2106.3 | 2080.4 | 2038.8 | 2021.6 | 2021.6 |
| 5°    | 2157.4 | 2252.6 | 2329.7 | 2378.9 | 2357.9 | 2307.2 | 2223.5 | 2116.8 | 2059.4 | 2049.3 |
| 7.5°  | 2190.5 | 2378.5 | 2521.5 | 2572.2 | 2536.8 | 2424.9 | 2264.6 | 2084.7 | 2002.5 | 1984.3 |
| 10°   | 2170.4 | 2414.8 | 2624.8 | 2705.2 | 2655.9 | 2486.6 | 2268.0 | 2047.4 | 1946.0 | 1925.0 |
| 12.5° | 2149.3 | 2419.6 | 2643.9 | 2760.2 | 2728.1 | 2536.3 | 2292.3 | 2023.0 | 1905.8 | 1875.7 |
| 15°   | 2164.6 | 2421.5 | 2620.5 | 2740.6 | 2761.1 | 2596.1 | 2332.5 | 2040.7 | 1897.7 | 1865.6 |
| 17.5° | 2261.3 | 2457.9 | 2587.0 | 2684.1 | 2756.4 | 2677.4 | 2446.9 | 2125.4 | 1970.4 | 1930.7 |
| 20°   | 2463.1 | 2544.9 | 2606.2 | 2681.3 | 2797.5 | 2843.4 | 2680.8 | 2357.9 | 2174.7 | 2139.7 |
| 22.5° | 3047.7 | 3032.9 | 2907.5 | 2906.1 | 3074.5 | 3258.7 | 3247.7 | 2830.5 | 2555.0 | 2526.3 |
| 25°   | 3266.8 | 3197.9 | 3016.6 | 2972.6 | 3046.7 | 3330.9 | 3289.7 | 2927.1 | 2672.7 | 2602.8 |
| 27.5° | 3181.2 | 3010.4 | 2891.3 | 2881.2 | 2856.8 | 3125.2 | 3224.2 | 2966.4 | 2713.8 | 2645.9 |
| 30°   | 3175.9 | 2924.8 | 2754.5 | 2774.5 | 2798.0 | 3054.4 | 3260.6 | 3089.3 | 2819.0 | 2746.3 |
| 32.5° | 3188.8 | 2936.7 | 2764.5 | 2768.3 | 2838.2 | 3064.9 | 3300.7 | 3223.3 | 2957.3 | 2884.6 |
| 35°   | 3241.0 | 3004.6 | 2828.6 | 2819.5 | 2928.6 | 3133.8 | 3369.2 | 3433.7 | 3146.2 | 3063.5 |
| 37.5° | 3325.1 | 3140.0 | 2945.8 | 2943.4 | 3101.7 | 3258.2 | 3454.3 | 3646.1 | 3334.2 | 3245.3 |
| 40°   | 3449.0 | 3298.4 | 3154.4 | 3141.5 | 3337.1 | 3460.5 | 3564.8 | 3872.4 | 3552.9 | 3438.5 |
| 42.5° | 3598.8 | 3488.3 | 3429.4 | 3480.6 | 3668.6 | 3687.8 | 3737.0 | 4081.4 | 3738.9 | 3605.9 |
| 45°   | 3737.5 | 3732.2 | 3814.0 | 3949.9 | 4059.4 | 3944.6 | 3916.9 | 4221.6 | 3883.4 | 3738.9 |
| 47.5° | 3902.5 | 4045.1 | 4291.9 | 4490.9 | 4605.7 | 4243.6 | 4070.4 | 4313.0 | 3988.6 | 3855.7 |
| 50°   | 4070.0 | 4419.7 | 4813.8 | 5091.3 | 5115.7 | 4568.4 | 4176.2 | 4399.1 | 4084.3 | 3946.1 |
| 52.5° | 4246.0 | 4718.6 | 5243.4 | 5565.8 | 5518.5 | 4851.1 | 4278.5 | 4457.4 | 4182.9 | 4061.4 |
| 55°   | 4399.1 | 4901.9 | 5483.6 | 5793.1 | 5723.7 | 5023.4 | 4389.0 | 4520.6 | 4323.5 | 4221.1 |
| 57.5° | 4484.7 | 4917.2 | 5423.8 | 5694.0 | 5618.9 | 4989.9 | 4439.7 | 4567.5 | 4413.4 | 4333.1 |
| 58°   | 4497.2 | 4896.6 | 5370.7 | 5636.6 | 5560.1 | 4961.6 | 4439.3 | 4565.6 | 4419.2 | 4338.3 |
| 60°   | 4486.1 | 4763.1 | 5173.1 | 5409.9 | 5329.5 | 4784.7 | 4421.1 | 4529.7 | 4346.5 | 4278.1 |
| 62.5° | 4384.3 | 4531.6 | 4832.0 | 5004.2 | 4981.3 | 4508.2 | 4346.5 | 4394.3 | 4125.0 | 4059.0 |
| 65°   | 4250.3 | 4215.9 | 4395.3 | 4517.2 | 4534.5 | 4301.0 | 4272.3 | 4101.5 | 3840.8 | 3747.5 |
| 67.5° | 4087.7 | 3858.1 | 3857.6 | 3926.9 | 3955.6 | 3982.4 | 4117.8 | 3783.4 | 3431.3 | 3332.8 |
| 70°   | 3811.6 | 3306.5 | 3154.4 | 3236.2 | 3212.3 | 3438.5 | 3841.8 | 3336.6 | 2937.7 | 2822.4 |
| 72.5° | 3305.5 | 2623.9 | 2380.4 | 2485.6 | 2425.3 | 2696.6 | 3361.5 | 2745.8 | 2429.2 | 2287.6 |
| 75°   | 2679.3 | 1962.8 | 1711.6 | 1808.2 | 1770.9 | 2045.5 | 2797.0 | 1994.3 | 1742.2 | 1688.2 |
| 77.5° | 2080.4 | 1422.2 | 1276.3 | 1262.9 | 1290.6 | 1522.2 | 2051.7 | 1346.6 | 1148.6 | 1111.7 |
| 80°   | 1336.6 | 1018.0 | 1026.6 | 1009.4 | 1023.7 | 959.6  | 1245.7 | 859.2  | 777.8  | 748.2  |
| 82.5° | 879.7  | 709.4  | 845.8  | 780.7  | 741.5  | 645.3  | 817.1  | 562.6  | 477.4  | 461.1  |
| 85°   | 599.4  | 522.4  | 475.5  | 363.6  | 428.1  | 497.0  | 612.8  | 302.8  | 240.1  | 217.7  |
| 87.5° | 270.8  | 181.8  | 133.5  | 82.3   | 130.1  | 150.2  | 297.5  | 35.4   | 27.3   | 28.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)