

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: P953472

Luminaire Tested: **GALN-SB7A-735-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7A-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

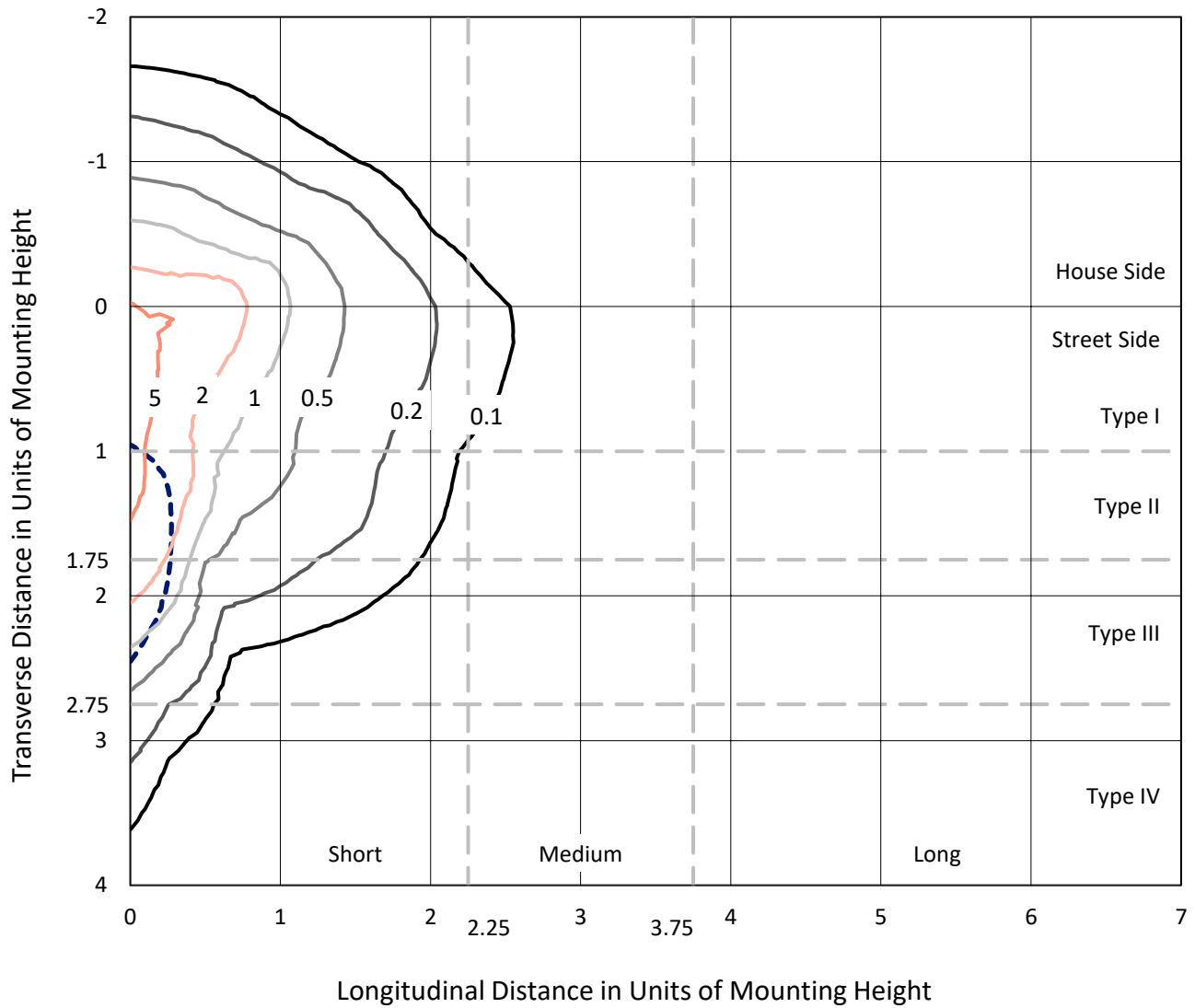
Lumens per Lamp: N/A  
Luminaire Lumens: 24347 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

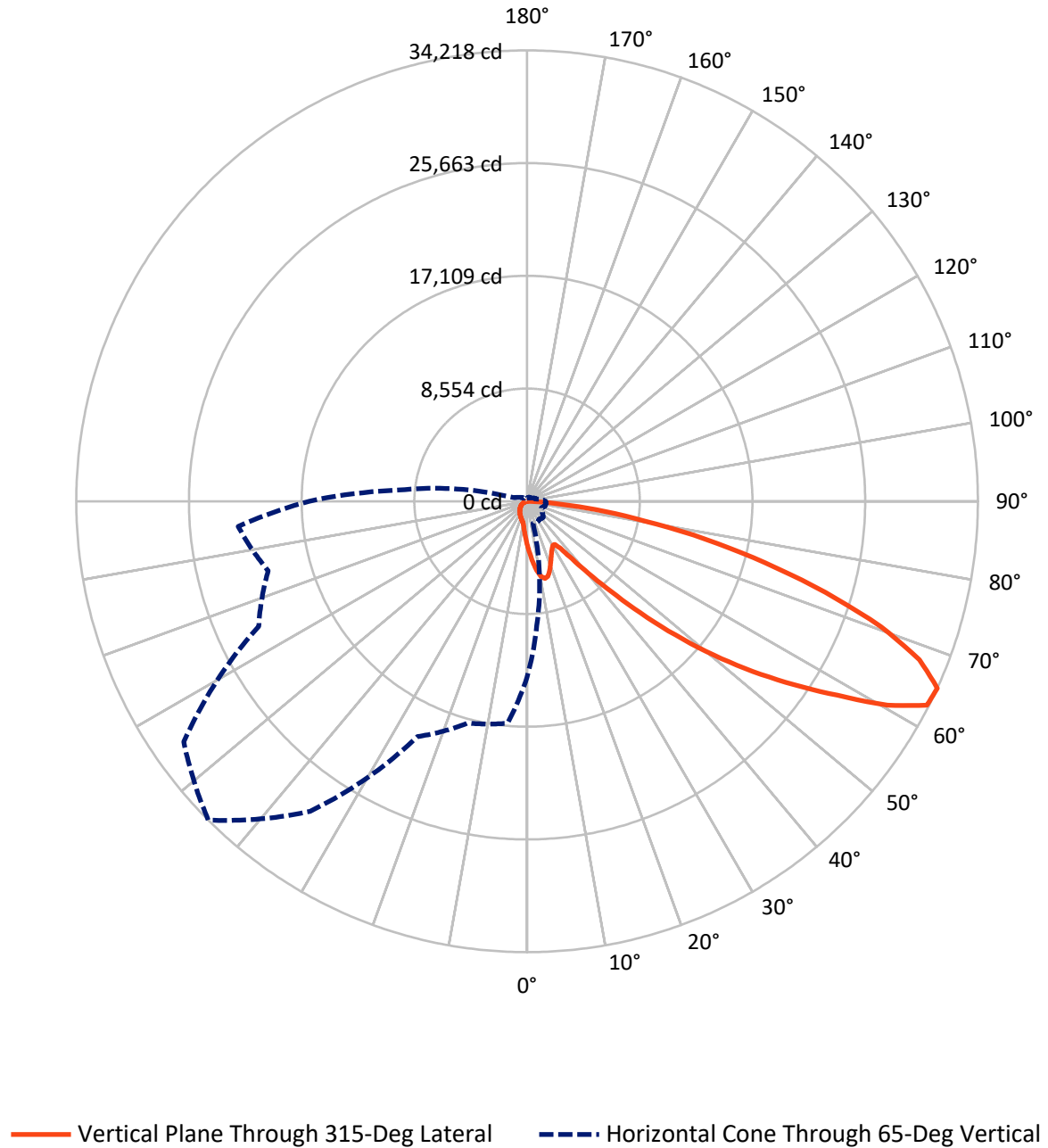
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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    | 3409.6   | 0.0    | 3409.6  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 20937.4  | 0.0    | 20937.4 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 24347.0  | 0.0    | 24347.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 331.9   | 1.4       |
| 10°-20°   | 995.0   | 4.1       |
| 20°-30°   | 1465.8  | 6.0       |
| 30°-40°   | 1883.2  | 7.7       |
| 40°-50°   | 3045.6  | 12.5      |
| 50°-60°   | 5340.8  | 21.9      |
| 60°-70°   | 6682.8  | 27.4      |
| 70°-80°   | 3905.1  | 16.0      |
| 80°-90°   | 696.7   | 2.9       |
| 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°    | 24347.0 | 100.0     |
| 0°-180°   | 24347.0 | 100.0     |

**Coefficient of Utilization**



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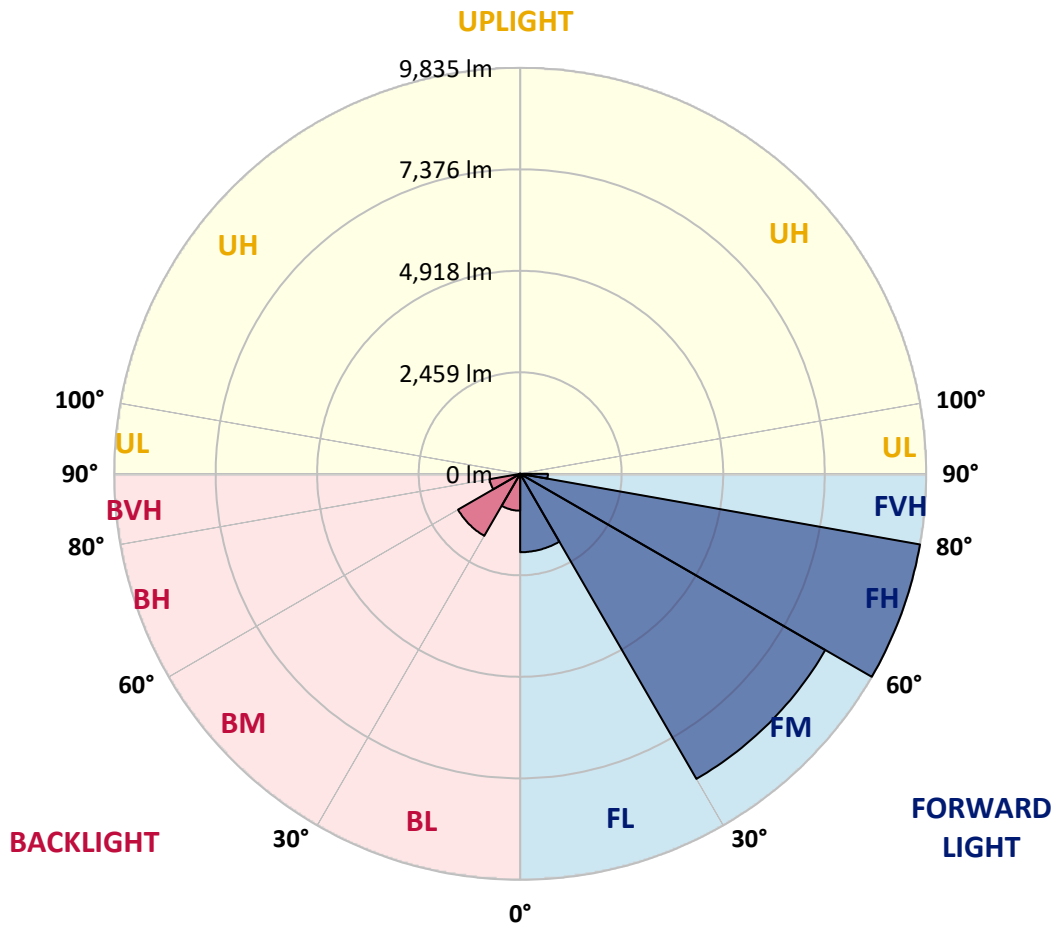
CATALOG NUMBER: GALN-SB7A-735-U-SLR-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1899.0 | 7.8       |                         |      |          |
| FM (30°-60°)   | 8533.4 | 35.0      |                         |      |          |
| FH (60°-80°)   | 9835.1 | 40.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 670.0  | 2.8       |                         |      | G4/750   |
| BL (0°-30°)    | 893.7  | 3.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 1736.3 | 7.1       | B2/2500                 |      |          |
| BH (60°-80°)   | 752.9  | 3.1       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 26.8   | 0.1       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3371.3  | 3371.3  | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 |
| 2.5°  | 3809.0  | 3743.6  | 3705.1 | 3609.5 | 3513.8 | 3436.7 | 3332.7 | 3263.9 | 3181.8 | 3102.9 |
| 5°    | 4245.1  | 4139.5  | 4012.0 | 3837.6 | 3678.2 | 3515.5 | 3357.9 | 3201.9 | 3037.5 | 2886.6 |
| 7.5°  | 4614.1  | 4461.5  | 4236.7 | 4005.3 | 3802.3 | 3606.1 | 3421.6 | 3215.3 | 3015.7 | 2779.2 |
| 10°   | 4895.9  | 4701.3  | 4406.1 | 4102.6 | 3869.4 | 3671.5 | 3492.0 | 3317.6 | 3116.3 | 2831.2 |
| 12.5° | 5067.0  | 4859.0  | 4508.5 | 4152.9 | 3886.2 | 3664.8 | 3525.6 | 3448.4 | 3369.6 | 3086.1 |
| 15°   | 5192.8  | 4968.0  | 4580.6 | 4188.1 | 3847.6 | 3575.9 | 3473.6 | 3550.7 | 3641.3 | 3460.2 |
| 17.5° | 5323.6  | 5087.1  | 4674.5 | 4203.2 | 3743.6 | 3403.1 | 3359.5 | 3559.1 | 3768.8 | 3760.4 |
| 20°   | 5447.7  | 5212.9  | 4756.7 | 4193.1 | 3575.9 | 3193.5 | 3232.1 | 3487.0 | 3730.2 | 3832.5 |
| 22.5° | 5590.3  | 5342.1  | 4835.5 | 4154.6 | 3357.9 | 2997.3 | 3118.0 | 3373.0 | 3586.0 | 3706.7 |
| 25°   | 5764.7  | 5504.7  | 4946.2 | 4097.5 | 3123.0 | 2834.6 | 3002.3 | 3240.5 | 3413.2 | 3497.1 |
| 27.5° | 5952.6  | 5699.3  | 5093.8 | 4067.3 | 2933.5 | 2718.8 | 2871.5 | 3082.8 | 3237.1 | 3295.8 |
| 30°   | 6185.7  | 5925.7  | 5268.3 | 4033.8 | 2809.4 | 2651.7 | 2735.6 | 2900.0 | 3050.9 | 3109.6 |
| 32.5° | 6440.7  | 6177.3  | 5436.0 | 3953.3 | 2733.9 | 2601.4 | 2603.1 | 2707.1 | 2844.6 | 2915.1 |
| 35°   | 6759.3  | 6479.2  | 5615.4 | 3777.2 | 2673.5 | 2542.7 | 2473.9 | 2524.3 | 2638.3 | 2722.2 |
| 37.5° | 7213.9  | 6875.1  | 5835.2 | 3525.6 | 2584.6 | 2452.1 | 2338.1 | 2349.8 | 2437.1 | 2529.3 |
| 40°   | 7841.2  | 7406.8  | 6093.5 | 3263.9 | 2457.2 | 2324.7 | 2188.8 | 2183.8 | 2247.5 | 2338.1 |
| 42.5° | 8689.9  | 8109.5  | 6403.8 | 3014.0 | 2334.7 | 2170.4 | 2031.2 | 2022.8 | 2073.1 | 2151.9 |
| 45°   | 9810.3  | 9008.5  | 6784.5 | 2799.3 | 2239.1 | 2019.4 | 1881.9 | 1878.5 | 1920.5 | 1989.2 |
| 47.5° | 11244.3 | 10258.1 | 7165.2 | 2653.4 | 2188.8 | 1900.3 | 1759.4 | 1766.1 | 1803.0 | 1865.1 |
| 50°   | 13101.0 | 11886.7 | 7281.0 | 2579.6 | 2188.8 | 1836.6 | 1650.4 | 1684.0 | 1714.2 | 1761.1 |
| 52.5° | 15326.7 | 13449.9 | 6898.5 | 2512.5 | 2202.2 | 1845.0 | 1558.2 | 1630.3 | 1652.1 | 1692.3 |
| 55°   | 17389.8 | 14216.4 | 5930.8 | 2420.3 | 2205.6 | 1897.0 | 1479.3 | 1586.7 | 1626.9 | 1642.0 |
| 57.5° | 18587.3 | 13953.1 | 4795.3 | 2264.3 | 2192.2 | 1932.2 | 1429.0 | 1533.0 | 1610.2 | 1620.2 |
| 60°   | 18359.2 | 13028.9 | 3530.6 | 2145.2 | 2093.2 | 1918.8 | 1413.9 | 1450.8 | 1573.3 | 1588.4 |
| 62.5° | 16601.5 | 11479.1 | 2450.5 | 2053.0 | 1875.2 | 1860.1 | 1408.9 | 1321.7 | 1492.8 | 1529.7 |
| 65°   | 13344.2 | 9037.0  | 1730.9 | 1767.8 | 1643.7 | 1732.6 | 1382.1 | 1187.5 | 1395.5 | 1445.8 |
| 67.5° | 9681.1  | 6115.3  | 1249.6 | 1432.4 | 1489.4 | 1526.3 | 1321.7 | 1090.2 | 1284.8 | 1351.9 |
| 70°   | 6212.5  | 3302.5  | 877.2  | 946.0  | 1254.6 | 1296.5 | 1217.7 | 1003.0 | 1172.4 | 1249.6 |
| 72.5° | 4416.2  | 1950.6  | 630.6  | 662.5  | 1008.0 | 1080.2 | 1071.8 | 905.7  | 1041.6 | 1135.5 |
| 75°   | 3047.6  | 1075.1  | 426.0  | 473.0  | 731.3  | 877.2  | 826.9  | 778.2  | 882.2  | 977.8  |
| 77.5° | 1910.4  | 481.4   | 254.9  | 328.7  | 479.7  | 689.4  | 566.9  | 602.1  | 687.7  | 776.6  |
| 80°   | 1063.4  | 186.2   | 142.6  | 218.0  | 261.7  | 501.5  | 313.6  | 387.4  | 506.5  | 570.3  |
| 82.5° | 231.5   | 23.5    | 63.7   | 93.9   | 102.3  | 291.8  | 166.0  | 224.8  | 318.7  | 313.6  |
| 85°   | 0.0     | 0.0     | 11.7   | 13.4   | 6.7    | 125.8  | 60.4   | 73.8   | 104.0  | 97.3   |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.4    |
| 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):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3371.3 | 0°    | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 |
| 3032.5 | 2.5°  | 3019.1 | 2936.9 | 2876.5 | 2846.3 | 2821.1 | 2844.6 | 2858.0 | 2858.0 | 2915.1 | 2948.6 |
| 2794.3 | 5°    | 2735.6 | 2588.0 | 2475.6 | 2400.2 | 2354.9 | 2370.0 | 2386.7 | 2405.2 | 2477.3 | 2525.9 |
| 2653.4 | 7.5°  | 2539.4 | 2312.9 | 2141.9 | 2036.2 | 1980.8 | 1989.2 | 2001.0 | 2016.1 | 2086.5 | 2135.1 |
| 2673.5 | 10°   | 2502.5 | 2177.1 | 1935.6 | 1796.3 | 1729.2 | 1717.5 | 1710.8 | 1705.8 | 1747.7 | 1784.6 |
| 2901.6 | 12.5° | 2653.4 | 2183.8 | 1846.7 | 1677.3 | 1595.1 | 1559.8 | 1519.6 | 1487.7 | 1494.4 | 1517.9 |
| 3247.2 | 15°   | 2923.5 | 2269.3 | 1818.1 | 1615.2 | 1512.9 | 1454.2 | 1407.2 | 1368.6 | 1360.3 | 1368.6 |
| 3549.1 | 17.5° | 3232.1 | 2385.1 | 1814.8 | 1561.5 | 1434.1 | 1373.7 | 1335.1 | 1299.9 | 1288.1 | 1289.8 |
| 3718.5 | 20°   | 3436.7 | 2477.3 | 1804.7 | 1501.1 | 1358.6 | 1304.9 | 1271.4 | 1236.1 | 1224.4 | 1227.7 |
| 3671.5 | 22.5° | 3456.8 | 2525.9 | 1789.6 | 1434.1 | 1283.1 | 1237.8 | 1204.3 | 1172.4 | 1170.7 | 1170.7 |
| 3495.4 | 25°   | 3347.8 | 2525.9 | 1757.8 | 1373.7 | 1211.0 | 1170.7 | 1140.5 | 1102.0 | 1108.7 | 1112.0 |
| 3295.8 | 27.5° | 3178.4 | 2465.6 | 1697.4 | 1325.0 | 1148.9 | 1107.0 | 1076.8 | 1041.6 | 1050.0 | 1055.0 |
| 3109.6 | 30°   | 3010.7 | 2388.4 | 1625.3 | 1269.7 | 1090.2 | 1041.6 | 1019.8 | 989.6  | 992.9  | 999.6  |
| 2925.1 | 32.5° | 2854.7 | 2306.2 | 1539.7 | 1224.4 | 1031.5 | 982.9  | 966.1  | 932.6  | 937.6  | 944.3  |
| 2744.0 | 35°   | 2700.4 | 2215.7 | 1439.1 | 1170.7 | 977.8  | 929.2  | 915.8  | 877.2  | 880.6  | 890.6  |
| 2562.8 | 37.5° | 2534.3 | 2120.0 | 1356.9 | 1117.1 | 925.8  | 875.5  | 862.1  | 821.9  | 825.2  | 836.9  |
| 2375.0 | 40°   | 2359.9 | 2026.1 | 1276.4 | 1060.0 | 870.5  | 820.2  | 808.4  | 764.8  | 768.2  | 781.6  |
| 2190.5 | 42.5° | 2183.8 | 1923.8 | 1214.3 | 986.2  | 813.5  | 759.8  | 748.1  | 707.8  | 712.8  | 727.9  |
| 2029.5 | 45°   | 2021.1 | 1801.4 | 1174.1 | 904.0  | 759.8  | 699.4  | 687.7  | 650.8  | 660.8  | 677.6  |
| 1893.6 | 47.5° | 1881.9 | 1675.6 | 1157.3 | 835.3  | 702.8  | 637.4  | 627.3  | 597.1  | 613.9  | 632.3  |
| 1777.9 | 50°   | 1762.8 | 1554.8 | 1135.5 | 764.8  | 649.1  | 583.7  | 573.6  | 553.5  | 575.3  | 593.7  |
| 1699.1 | 52.5° | 1677.3 | 1417.3 | 1088.5 | 701.1  | 602.1  | 538.4  | 535.0  | 525.0  | 545.1  | 561.9  |
| 1640.4 | 55°   | 1603.5 | 1274.7 | 1013.1 | 645.7  | 560.2  | 499.8  | 503.2  | 498.1  | 514.9  | 528.3  |
| 1605.1 | 57.5° | 1536.4 | 1150.6 | 917.5  | 602.1  | 514.9  | 466.3  | 476.3  | 469.6  | 478.0  | 486.4  |
| 1568.2 | 60°   | 1455.9 | 1024.8 | 803.4  | 553.5  | 461.2  | 432.7  | 444.5  | 426.0  | 424.3  | 427.7  |
| 1501.1 | 62.5° | 1336.8 | 855.4  | 684.3  | 493.1  | 414.3  | 395.8  | 400.9  | 365.6  | 338.8  | 338.8  |
| 1402.2 | 65°   | 1170.7 | 687.7  | 573.6  | 426.0  | 360.6  | 345.5  | 342.2  | 291.8  | 254.9  | 251.6  |
| 1294.8 | 67.5° | 977.8  | 565.2  | 476.3  | 358.9  | 300.2  | 290.2  | 293.5  | 256.6  | 219.7  | 216.4  |
| 1187.5 | 70°   | 796.7  | 468.0  | 384.1  | 286.8  | 231.5  | 241.5  | 256.6  | 219.7  | 184.5  | 179.5  |
| 1061.7 | 72.5° | 647.4  | 372.4  | 300.2  | 219.7  | 171.1  | 199.6  | 218.0  | 179.5  | 145.9  | 142.6  |
| 905.7  | 75°   | 499.8  | 273.4  | 214.7  | 149.3  | 124.1  | 154.3  | 171.1  | 130.8  | 104.0  | 99.0   |
| 701.1  | 77.5° | 333.8  | 169.4  | 120.8  | 93.9   | 73.8   | 105.7  | 114.1  | 68.8   | 60.4   | 58.7   |
| 509.9  | 80°   | 202.9  | 78.8   | 52.0   | 45.3   | 25.2   | 38.6   | 45.3   | 28.5   | 31.9   | 33.5   |
| 271.7  | 82.5° | 102.3  | 21.8   | 8.4    | 1.7    | 0.0    | 0.0    | 13.4   | 6.7    | 13.4   | 16.8   |
| 73.8   | 85°   | 8.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.4    | 8.4    |
| 0.0    | 87.5° | 0.0    | 0.0    | 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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**CANDELA DISTRIBUTION (continued):**

| 185°   |       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 3371.3 | 0°    | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3 | 3371.3  | 3371.3  | 3371.3  |
| 2962.0 | 2.5°  | 3056.0 | 3126.4 | 3193.5 | 3300.8 | 3411.5 | 3520.6 | 3631.3 | 3738.6  | 3777.2  | 3805.7  |
| 2557.8 | 5°    | 2703.7 | 2836.2 | 2990.5 | 3203.6 | 3431.7 | 3666.5 | 3904.6 | 4122.7  | 4221.6  | 4288.7  |
| 2177.1 | 7.5°  | 2339.8 | 2512.5 | 2733.9 | 3054.3 | 3411.5 | 3785.6 | 4159.6 | 4503.4  | 4662.8  | 4791.9  |
| 1818.1 | 10°   | 1979.2 | 2167.0 | 2447.1 | 2812.8 | 3295.8 | 3832.5 | 4349.1 | 4822.1  | 5028.4  | 5191.1  |
| 1559.8 | 12.5° | 1662.2 | 1838.3 | 2131.8 | 2536.0 | 3114.7 | 3795.6 | 4458.1 | 5026.7  | 5269.9  | 5452.8  |
| 1375.3 | 15°   | 1439.1 | 1563.2 | 1823.2 | 2259.3 | 2900.0 | 3676.5 | 4464.9 | 5124.0  | 5390.7  | 5581.9  |
| 1298.2 | 17.5° | 1315.0 | 1356.9 | 1526.3 | 1977.5 | 2661.8 | 3520.6 | 4402.8 | 5157.6  | 5442.7  | 5620.5  |
| 1229.4 | 20°   | 1247.9 | 1254.6 | 1301.5 | 1611.8 | 2356.5 | 3374.6 | 4344.1 | 5191.1  | 5491.3  | 5640.6  |
| 1180.8 | 22.5° | 1194.2 | 1194.2 | 1205.9 | 1318.3 | 1962.4 | 3200.2 | 4325.6 | 5249.8  | 5558.4  | 5650.7  |
| 1125.4 | 25°   | 1145.6 | 1145.6 | 1148.9 | 1179.1 | 1554.8 | 2933.5 | 4313.9 | 5340.4  | 5650.7  | 5675.8  |
| 1070.1 | 27.5° | 1095.2 | 1096.9 | 1096.9 | 1113.7 | 1252.9 | 2571.2 | 4263.6 | 5457.8  | 5761.4  | 5709.4  |
| 1016.4 | 30°   | 1044.9 | 1048.3 | 1048.3 | 1060.0 | 1108.7 | 2146.9 | 4164.6 | 5598.7  | 5905.6  | 5753.0  |
| 962.7  | 32.5° | 994.6  | 998.0  | 998.0  | 1008.0 | 1043.3 | 1714.2 | 4040.5 | 5727.8  | 6051.5  | 5771.4  |
| 910.7  | 35°   | 942.6  | 947.6  | 944.3  | 957.7  | 994.6  | 1363.6 | 3882.8 | 5857.0  | 6209.2  | 5830.1  |
| 860.4  | 37.5° | 890.6  | 894.0  | 892.3  | 905.7  | 947.6  | 1177.4 | 3700.0 | 5954.3  | 6423.9  | 5961.0  |
| 806.8  | 40°   | 838.6  | 836.9  | 836.9  | 852.0  | 897.3  | 1123.8 | 3470.2 | 6108.6  | 6732.5  | 6190.7  |
| 753.1  | 42.5° | 785.0  | 785.0  | 781.6  | 798.4  | 853.7  | 1083.5 | 3250.5 | 6385.3  | 7182.0  | 6556.4  |
| 702.8  | 45°   | 736.3  | 734.6  | 727.9  | 743.0  | 811.8  | 1013.1 | 3173.4 | 6901.9  | 7846.2  | 7148.5  |
| 652.5  | 47.5° | 689.4  | 687.7  | 670.9  | 684.3  | 761.5  | 949.3  | 3461.9 | 7747.2  | 8767.0  | 8019.0  |
| 612.2  | 50°   | 647.4  | 649.1  | 617.2  | 629.0  | 711.2  | 900.7  | 4087.5 | 8844.2  | 9989.7  | 9191.4  |
| 578.7  | 52.5° | 608.8  | 608.8  | 566.9  | 573.6  | 649.1  | 857.1  | 4682.9 | 10033.3 | 11603.2 | 10826.7 |
| 543.4  | 55°   | 570.3  | 566.9  | 519.9  | 523.3  | 587.0  | 795.0  | 4771.8 | 11194.0 | 13803.8 | 13287.2 |
| 504.9  | 57.5° | 526.7  | 519.9  | 476.3  | 476.3  | 530.0  | 749.7  | 4136.1 | 12086.3 | 16534.4 | 16903.4 |
| 432.7  | 60°   | 473.0  | 468.0  | 439.4  | 431.1  | 484.7  | 790.0  | 2918.4 | 12190.3 | 18295.5 | 21712.1 |
| 343.8  | 62.5° | 404.2  | 410.9  | 395.8  | 384.1  | 441.1  | 820.2  | 1729.2 | 11353.3 | 17869.5 | 23241.7 |
| 266.7  | 65°   | 318.7  | 345.5  | 342.2  | 333.8  | 484.7  | 691.0  | 1021.4 | 9746.5  | 16562.9 | 22007.2 |
| 233.1  | 67.5° | 271.7  | 290.2  | 285.1  | 285.1  | 508.2  | 525.0  | 642.4  | 7614.7  | 14764.9 | 20543.0 |
| 194.6  | 70°   | 231.5  | 249.9  | 231.5  | 231.5  | 384.1  | 318.7  | 444.5  | 5316.9  | 12824.3 | 18922.8 |
| 156.0  | 72.5° | 191.2  | 209.7  | 189.5  | 176.1  | 306.9  | 238.2  | 325.4  | 3322.6  | 10982.7 | 17235.5 |
| 110.7  | 75°   | 145.9  | 167.7  | 152.6  | 135.9  | 202.9  | 177.8  | 246.6  | 1930.5  | 9099.1  | 14746.4 |
| 67.1   | 77.5° | 92.2   | 120.8  | 114.1  | 95.6   | 149.3  | 129.1  | 177.8  | 1148.9  | 7021.0  | 11522.7 |
| 40.3   | 80°   | 57.0   | 62.1   | 63.7   | 60.4   | 85.5   | 87.2   | 120.8  | 654.1   | 4805.3  | 8030.7  |
| 25.2   | 82.5° | 36.9   | 36.9   | 28.5   | 31.9   | 41.9   | 50.3   | 68.8   | 246.6   | 2824.5  | 4889.2  |
| 15.1   | 85°   | 26.8   | 23.5   | 15.1   | 15.1   | 20.1   | 25.2   | 26.8   | 75.5    | 1145.6  | 1930.5  |
| 6.7    | 87.5° | 13.4   | 11.7   | 5.0    | 6.7    | 10.1   | 8.4    | 6.7    | 3.4     | 288.5   | 617.2   |
| 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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| 285°    |       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3371.3  | 0°    | 3371.3  | 3371.3  | 3371.3  | 3371.3  | 3371.3  | 3371.3  | 3371.3  | 3371.3  |
| 3869.4  | 2.5°  | 3903.0  | 3955.0  | 3958.3  | 3958.3  | 3913.0  | 3911.4  | 3819.1  | 3809.0  |
| 4439.7  | 5°    | 4595.7  | 4629.2  | 4637.6  | 4620.8  | 4530.3  | 4463.2  | 4283.7  | 4245.1  |
| 5021.7  | 7.5°  | 5229.7  | 5296.8  | 5296.8  | 5256.5  | 5108.9  | 4971.4  | 4711.4  | 4614.1  |
| 5503.1  | 10°   | 5736.2  | 5813.4  | 5796.6  | 5714.4  | 5528.2  | 5338.7  | 5023.4  | 4895.9  |
| 5794.9  | 12.5° | 5982.8  | 6061.6  | 6018.0  | 5924.1  | 5742.9  | 5543.3  | 5211.2  | 5067.0  |
| 5878.8  | 15°   | 5977.7  | 5955.9  | 5910.6  | 5898.9  | 5811.7  | 5660.7  | 5350.4  | 5192.8  |
| 5826.8  | 17.5° | 5764.7  | 5580.2  | 5545.0  | 5662.4  | 5773.1  | 5736.2  | 5471.2  | 5323.6  |
| 5702.7  | 20°   | 5427.6  | 5105.6  | 5073.7  | 5298.4  | 5613.8  | 5774.8  | 5583.6  | 5447.7  |
| 5523.2  | 22.5° | 5072.0  | 4724.8  | 4651.0  | 4899.3  | 5373.9  | 5786.5  | 5726.1  | 5590.3  |
| 5325.3  | 25°   | 4734.9  | 4386.0  | 4312.2  | 4543.7  | 5107.2  | 5766.4  | 5880.5  | 5764.7  |
| 5135.8  | 27.5° | 4453.1  | 4116.0  | 4047.2  | 4278.7  | 4850.6  | 5709.4  | 6034.8  | 5952.6  |
| 4947.9  | 30°   | 4235.1  | 3923.1  | 3872.8  | 4095.9  | 4629.2  | 5638.9  | 6231.0  | 6185.7  |
| 4773.5  | 32.5° | 4107.6  | 3879.5  | 3897.9  | 4080.8  | 4510.1  | 5561.8  | 6418.9  | 6440.7  |
| 4687.9  | 35°   | 4233.4  | 4243.5  | 4404.5  | 4479.9  | 4620.8  | 5550.0  | 6673.8  | 6759.3  |
| 4790.2  | 37.5° | 4859.0  | 5207.9  | 5541.6  | 5479.6  | 5162.6  | 5685.9  | 7054.5  | 7213.9  |
| 5236.4  | 40°   | 5924.1  | 6640.2  | 7182.0  | 6945.5  | 6147.1  | 6101.8  | 7603.0  | 7841.2  |
| 6028.1  | 42.5° | 7225.6  | 8439.9  | 9332.2  | 8698.2  | 7416.8  | 6829.8  | 8386.3  | 8689.9  |
| 6985.8  | 45°   | 8599.3  | 10658.9 | 12064.5 | 10746.2 | 8770.4  | 7849.5  | 9572.1  | 9810.3  |
| 7883.1  | 47.5° | 10046.8 | 13356.0 | 15174.1 | 13017.2 | 10024.9 | 9010.2  | 11189.0 | 11244.3 |
| 8733.5  | 50°   | 11630.1 | 16313.0 | 18344.1 | 15286.5 | 11235.9 | 10340.3 | 13164.8 | 13101.0 |
| 9724.7  | 52.5° | 13137.9 | 19353.8 | 21447.0 | 17565.9 | 12299.3 | 11990.7 | 15457.6 | 15326.7 |
| 11079.9 | 55°   | 14577.0 | 22393.0 | 24568.4 | 19756.4 | 13302.3 | 14171.1 | 18181.4 | 17389.8 |
| 13033.9 | 57.5° | 16245.9 | 25125.3 | 27785.4 | 21956.9 | 14704.5 | 17002.3 | 21227.3 | 18587.3 |
| 16775.9 | 60°   | 18713.1 | 28229.9 | 31423.4 | 24972.6 | 17371.3 | 19977.8 | 22319.2 | 18359.2 |
| 21257.5 | 62.5° | 21863.0 | 31084.5 | 34068.4 | 27928.0 | 20049.9 | 20538.0 | 20710.7 | 16601.5 |
| 20343.4 | 65°   | 22475.2 | 31807.4 | 34217.7 | 28717.9 | 19704.4 | 17421.6 | 16908.4 | 13344.2 |
| 18171.4 | 67.5° | 20851.6 | 30500.9 | 32131.2 | 27247.0 | 17430.0 | 13463.3 | 12688.4 | 9681.1  |
| 16745.7 | 70°   | 19030.1 | 28010.1 | 28494.9 | 24746.2 | 15330.1 | 9902.5  | 8569.1  | 6212.5  |
| 15769.5 | 72.5° | 17163.3 | 24687.5 | 23684.5 | 21490.7 | 13473.4 | 7210.5  | 6180.7  | 4416.2  |
| 14379.1 | 75°   | 14946.0 | 20318.3 | 18656.1 | 17856.0 | 11155.4 | 5659.1  | 4471.6  | 3047.6  |
| 12368.1 | 77.5° | 11968.9 | 14301.9 | 13857.5 | 13840.7 | 8382.9  | 4134.4  | 2983.8  | 1910.4  |
| 9662.7  | 80°   | 8443.3  | 9281.9  | 9055.5  | 10424.1 | 5623.8  | 2998.9  | 1796.3  | 1063.4  |
| 6725.8  | 82.5° | 4087.5  | 5132.4  | 5268.3  | 6207.5  | 2735.6  | 1764.5  | 414.3   | 231.5   |
| 2629.9  | 85°   | 1600.1  | 2475.6  | 2088.2  | 2356.5  | 768.2   | 491.4   | 10.1    | 0.0     |
| 432.7   | 87.5° | 179.5   | 286.8   | 263.3   | 208.0   | 93.9    | 20.1    | 0.0     | 0.0     |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)