

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: P648058

Luminaire Tested: **GALN-SA7A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14712.5 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

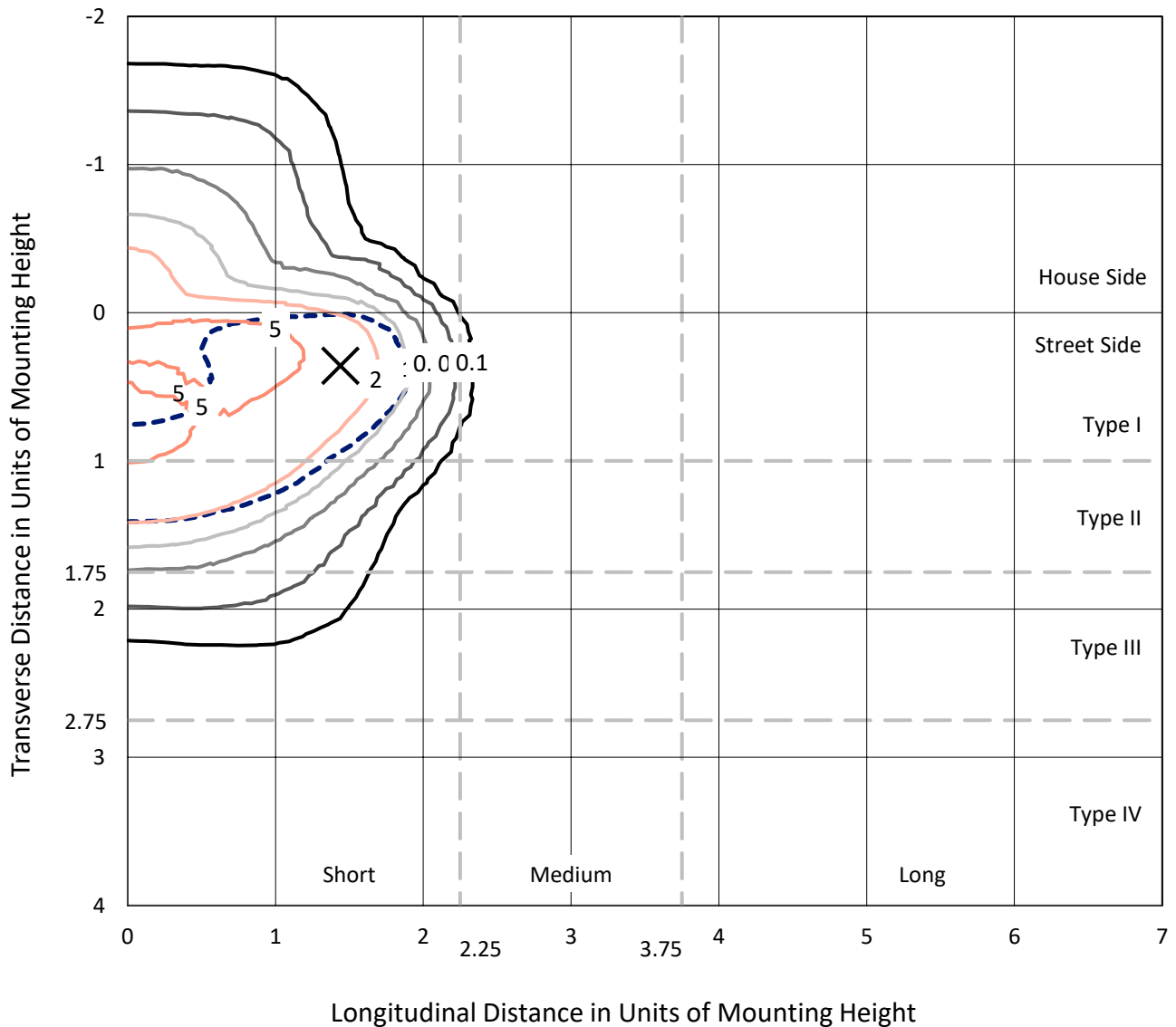
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

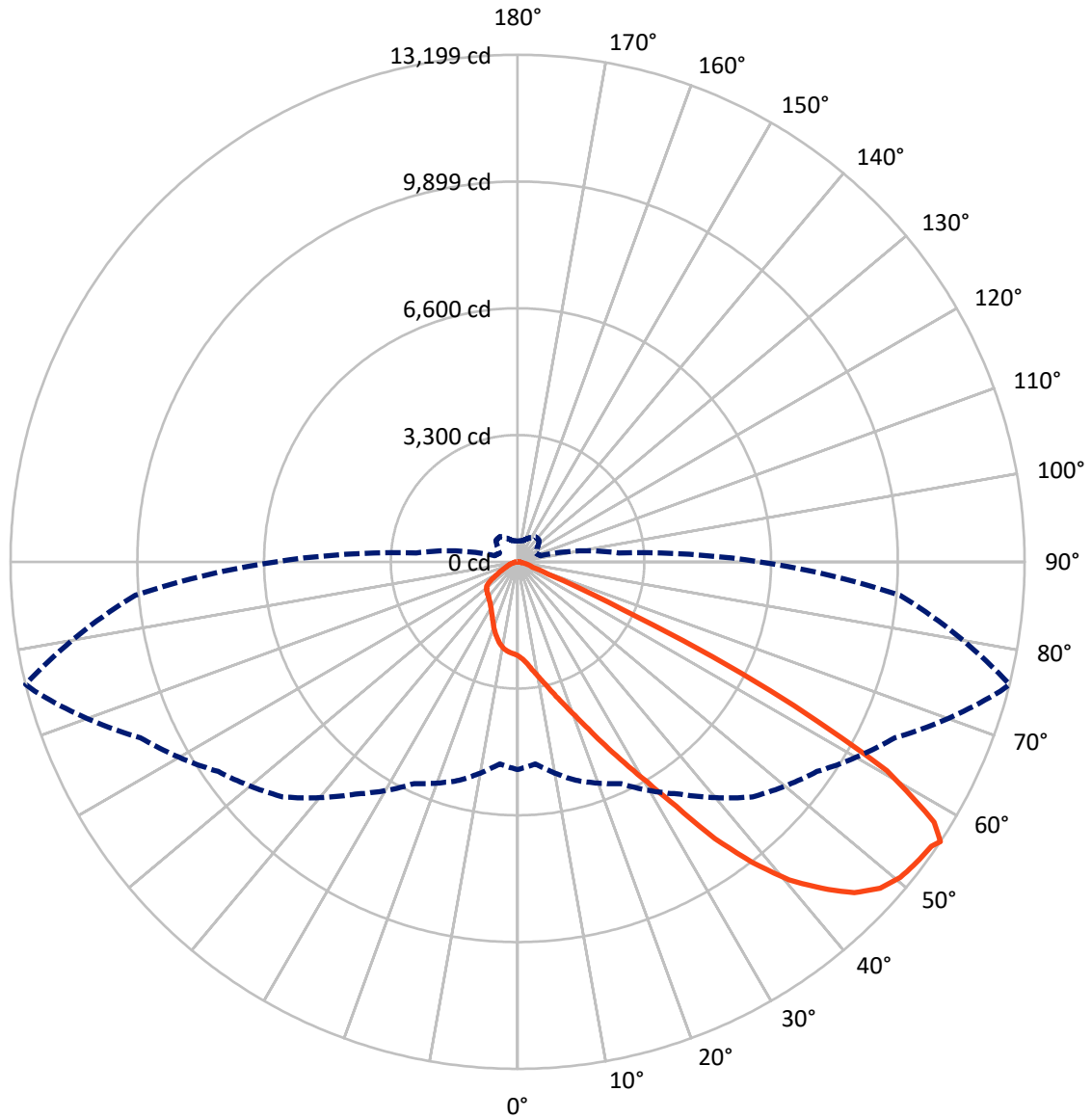
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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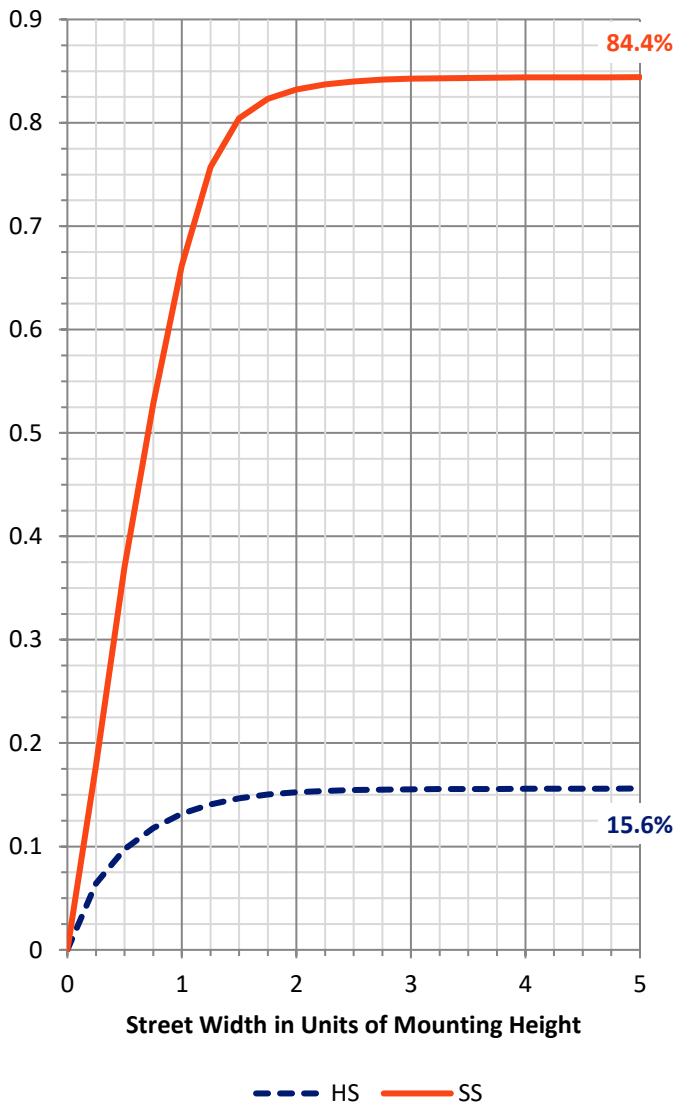
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2311.3   | 0.0    | 2311.3  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 12401.3  | 0.0    | 12401.3 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 14712.5  | 0.0    | 14712.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 246.7   | 1.7       |
| 10°-20°   | 792.5   | 5.4       |
| 20°-30°   | 1437.1  | 9.8       |
| 30°-40°   | 2478.3  | 16.8      |
| 40°-50°   | 4026.1  | 27.4      |
| 50°-60°   | 4243.7  | 28.8      |
| 60°-70°   | 1296.6  | 8.8       |
| 70°-80°   | 166.2   | 1.1       |
| 80°-90°   | 25.2    | 0.2       |
| 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°    | 14712.5 | 100.0     |
| 0°-180°   | 14712.5 | 100.0     |

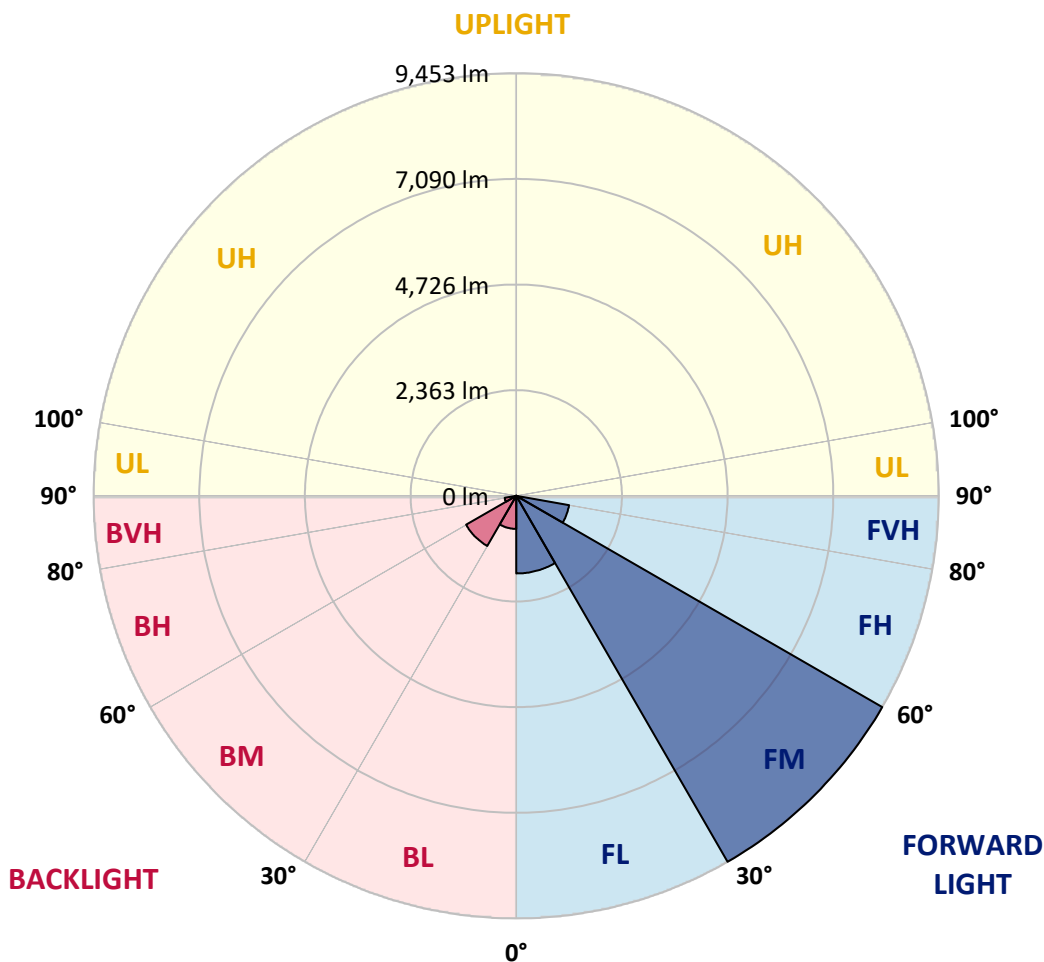


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1736.9 | 11.8      |                         |      |         |
| FM (30°-60°)   | 9452.8 | 64.2      |                         |      |         |
| FH (60°-80°)   | 1199.2 | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.4   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 739.4  | 5.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1295.3 | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 263.7  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 12.9   | 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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°    | 65°     | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|---------|---------|---------|--------|
| 0°    | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9  | 2448.9  | 2448.9 | 2448.9  | 2448.9  | 2448.9  | 2448.9 |
| 2.5°  | 2820.4 | 2755.4 | 2758.1 | 2752.6 | 2744.6  | 2714.7  | 2625.2 | 2611.6  | 2552.0  | 2535.7  | 2481.5 |
| 5°    | 3159.5 | 3102.5 | 3135.1 | 3086.3 | 3040.2  | 3013.1  | 2866.6 | 2798.8  | 2703.9  | 2668.6  | 2592.7 |
| 7.5°  | 3371.0 | 3343.9 | 3333.1 | 3335.7 | 3292.4  | 3224.6  | 3159.5 | 3010.3  | 2882.8  | 2855.8  | 2695.7 |
| 10°   | 3474.1 | 3457.8 | 3474.1 | 3465.9 | 3484.9  | 3493.0  | 3379.1 | 3289.6  | 3102.5  | 3056.4  | 2806.9 |
| 12.5° | 3498.4 | 3531.0 | 3544.6 | 3579.8 | 3625.9  | 3704.6  | 3696.5 | 3574.4  | 3324.9  | 3295.1  | 2977.7 |
| 15°   | 3558.1 | 3585.3 | 3571.7 | 3628.7 | 3715.4  | 3848.3  | 3918.8 | 3899.8  | 3631.3  | 3577.1  | 3175.8 |
| 17.5° | 3612.4 | 3563.6 | 3609.6 | 3723.6 | 3810.3  | 4013.7  | 4184.6 | 4263.3  | 3965.0  | 3902.6  | 3357.4 |
| 20°   | 3685.6 | 3672.0 | 3663.9 | 3720.8 | 3875.5  | 4146.6  | 4485.7 | 4629.4  | 4339.2  | 4274.1  | 3617.8 |
| 22.5° | 3908.0 | 3910.7 | 3905.3 | 3821.2 | 3932.4  | 4238.8  | 4748.7 | 5104.0  | 4786.6  | 4732.5  | 3913.4 |
| 25°   | 4200.9 | 4165.6 | 4138.5 | 4070.7 | 4057.1  | 4322.9  | 5014.5 | 5684.3  | 5323.6  | 5285.6  | 4233.4 |
| 27.5° | 4510.1 | 4510.1 | 4428.6 | 4366.3 | 4279.5  | 4531.8  | 5258.5 | 6248.4  | 5971.8  | 5920.3  | 4512.7 |
| 30°   | 4846.3 | 4865.3 | 4854.4 | 4721.6 | 4667.3  | 4759.5  | 5508.1 | 6969.8  | 6714.9  | 6649.8  | 4973.8 |
| 32.5° | 5342.6 | 5301.9 | 5348.0 | 5236.9 | 5076.8  | 5158.2  | 5901.3 | 7615.3  | 7680.4  | 7588.1  | 5578.6 |
| 35°   | 5999.0 | 5974.5 | 5944.7 | 5763.0 | 5573.2  | 5638.2  | 6457.2 | 8409.9  | 8892.6  | 8846.5  | 6188.8 |
| 37.5° | 6587.5 | 6573.8 | 6549.5 | 6424.7 | 6205.0  | 6283.7  | 7089.1 | 9237.1  | 10075.0 | 9923.2  | 7051.1 |
| 40°   | 7205.8 | 7279.0 | 7200.3 | 7089.1 | 6888.4  | 7062.0  | 7832.3 | 9727.9  | 11070.4 | 10886.0 | 7710.2 |
| 42.5° | 8043.8 | 7986.8 | 8022.1 | 7818.6 | 7710.2  | 7900.0  | 8578.0 | 10218.8 | 11843.3 | 11623.6 | 8409.9 |
| 45°   | 8936.0 | 8938.7 | 8843.8 | 8778.7 | 8496.6  | 8702.8  | 9036.4 | 10490.0 | 12458.9 | 12288.0 | 8938.7 |
| 47.5° | 9508.3 | 9505.5 | 9608.6 | 9711.6 | 9421.4  | 9218.0  | 9348.2 | 10747.6 | 12776.2 | 12697.5 | 9131.3 |
| 50°   | 9418.8 | 9445.9 | 9578.8 | 9963.8 | 10115.7 | 9841.8  | 9641.2 | 10671.7 | 12920.0 | 12911.8 | 9296.7 |
| 52.5° | 8192.9 | 8282.4 | 8504.8 | 9060.8 | 9825.6  | 10164.5 | 9947.6 | 10812.7 | 12990.4 | 13004.0 | 9543.5 |
| 55°   | 6237.6 | 6286.4 | 6709.4 | 7384.8 | 8230.9  | 9391.6  | 9825.6 | 10923.9 | 13044.7 | 13069.1 | 9841.8 |
| 56°   | 5410.5 | 5280.2 | 5890.4 | 6370.5 | 7382.0  | 8651.3  | 9516.3 | 10837.1 | 13012.1 | 13199.3 | 9991.0 |
| 57.5° | 4084.3 | 3997.4 | 4491.1 | 5090.4 | 6064.0  | 7403.7  | 8556.3 | 10427.6 | 12792.5 | 12789.8 | 9776.7 |
| 60°   | 2484.2 | 2397.4 | 2777.1 | 3129.7 | 3674.8  | 4558.9  | 5782.0 | 8304.1  | 10815.4 | 11043.2 | 7916.3 |
| 62.5° | 1478.1 | 1532.3 | 1906.5 | 2120.8 | 2297.1  | 2389.2  | 2991.3 | 4935.8  | 7216.6  | 7379.3  | 4911.4 |
| 65°   | 984.5  | 1003.4 | 1285.5 | 1638.0 | 1716.7  | 1366.9  | 1217.7 | 1998.8  | 3129.7  | 3029.3  | 2025.9 |
| 67.5° | 607.5  | 650.9  | 862.4  | 1231.3 | 1364.1  | 998.0   | 577.6  | 745.8   | 862.4   | 862.4   | 585.8  |
| 70°   | 368.8  | 390.6  | 575.0  | 838.0  | 935.6   | 642.8   | 420.4  | 420.4   | 414.9   | 406.8   | 349.8  |
| 72.5° | 176.3  | 189.9  | 292.9  | 431.2  | 439.3   | 339.0   | 325.4  | 355.2   | 347.1   | 344.4   | 290.2  |
| 75°   | 76.0   | 81.4   | 103.0  | 135.6  | 154.6   | 143.8   | 197.9  | 254.9   | 263.1   | 254.9   | 208.8  |
| 77.5° | 24.4   | 27.1   | 38.0   | 48.8   | 51.5    | 62.4    | 84.1   | 105.8   | 122.1   | 113.9   | 103.0  |
| 80°   | 2.7    | 5.4    | 10.9   | 24.4   | 38.0    | 48.8    | 62.4   | 70.5    | 78.6    | 78.6    | 73.2   |
| 82.5° | 2.7    | 2.7    | 10.9   | 21.7   | 35.2    | 46.1    | 59.7   | 67.8    | 78.6    | 81.4    | 76.0   |
| 85°   | 0.0    | 2.7    | 8.1    | 18.9   | 29.8    | 29.8    | 27.1   | 27.1    | 18.9    | 18.9    | 18.9   |
| 87.5° | 0.0    | 0.0    | 2.7    | 2.7    | 2.7     | 5.4     | 5.4    | 5.4     | 5.4     | 5.4     | 5.4    |
| 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°    | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9 | 2448.9 |
| 2.5°  | 2470.6 | 2465.2 | 2392.0 | 2345.9 | 2321.4 | 2272.7 | 2242.8 | 2221.1 | 2204.8 | 2185.9 | 2188.6 |
| 5°    | 2503.2 | 2484.2 | 2362.2 | 2278.1 | 2177.8 | 2123.5 | 2077.4 | 2039.4 | 2015.0 | 2009.6 | 1998.8 |
| 7.5°  | 2595.4 | 2495.0 | 2310.6 | 2158.7 | 2031.3 | 1977.1 | 1936.4 | 1911.9 | 1922.8 | 1898.4 | 1917.4 |
| 10°   | 2665.9 | 2516.7 | 2248.2 | 2028.6 | 1901.1 | 1860.4 | 1838.7 | 1857.7 | 1884.8 | 1874.0 | 1860.4 |
| 12.5° | 2752.6 | 2538.4 | 2147.9 | 1903.8 | 1784.5 | 1754.6 | 1792.6 | 1827.9 | 1882.1 | 1903.8 | 1876.7 |
| 15°   | 2850.3 | 2562.8 | 2020.5 | 1760.1 | 1684.2 | 1708.6 | 1773.7 | 1836.1 | 1890.2 | 1917.4 | 1933.6 |
| 17.5° | 2969.6 | 2554.7 | 1895.7 | 1646.2 | 1589.3 | 1659.7 | 1738.4 | 1795.3 | 1876.7 | 1917.4 | 1906.5 |
| 20°   | 3080.8 | 2527.6 | 1757.4 | 1532.3 | 1535.0 | 1600.1 | 1665.1 | 1757.4 | 1800.7 | 1855.0 | 1836.1 |
| 22.5° | 3186.6 | 2478.7 | 1613.6 | 1453.6 | 1453.6 | 1553.9 | 1586.5 | 1646.2 | 1684.2 | 1711.2 | 1708.6 |
| 25°   | 3335.7 | 2386.6 | 1494.3 | 1377.7 | 1410.3 | 1475.3 | 1502.4 | 1521.4 | 1505.2 | 1526.9 | 1529.6 |
| 27.5° | 3441.5 | 2291.6 | 1396.6 | 1309.9 | 1369.5 | 1418.4 | 1410.3 | 1399.4 | 1361.4 | 1331.6 | 1350.6 |
| 30°   | 3555.4 | 2180.4 | 1312.6 | 1263.8 | 1296.3 | 1339.7 | 1307.2 | 1274.6 | 1215.0 | 1166.1 | 1168.9 |
| 32.5° | 3718.2 | 2128.9 | 1239.4 | 1209.6 | 1253.0 | 1258.4 | 1223.1 | 1174.3 | 1114.6 | 1068.6 | 1065.8 |
| 35°   | 4021.9 | 2096.4 | 1177.0 | 1174.3 | 1182.4 | 1185.1 | 1149.9 | 1090.2 | 1065.8 | 1027.8 | 1041.4 |
| 37.5° | 4325.6 | 2080.1 | 1133.6 | 1122.7 | 1120.1 | 1122.7 | 1082.1 | 1025.1 | 1071.2 | 1068.6 | 1074.0 |
| 40°   | 4713.4 | 2153.3 | 1071.2 | 1057.7 | 1060.4 | 1060.4 | 1008.9 | 992.6  | 1074.0 | 1082.1 | 1084.8 |
| 42.5° | 5106.6 | 2245.6 | 1030.6 | 987.1  | 998.0  | 998.0  | 970.9  | 951.9  | 1008.9 | 954.6  | 946.5  |
| 45°   | 5448.4 | 2381.1 | 987.1  | 916.7  | 943.7  | 957.3  | 949.2  | 916.7  | 881.4  | 789.2  | 789.2  |
| 47.5° | 5559.6 | 2500.4 | 935.6  | 848.9  | 870.5  | 930.2  | 905.8  | 838.0  | 775.6  | 699.7  | 694.3  |
| 50°   | 5754.8 | 2630.6 | 895.0  | 770.2  | 816.3  | 889.6  | 865.1  | 797.3  | 726.8  | 672.6  | 675.3  |
| 52.5° | 5955.5 | 2779.8 | 819.0  | 678.0  | 734.9  | 857.0  | 857.0  | 781.0  | 672.6  | 634.6  | 629.2  |
| 55°   | 6256.6 | 2774.4 | 683.4  | 555.9  | 656.3  | 808.2  | 821.8  | 699.7  | 602.0  | 572.2  | 572.2  |
| 56°   | 6299.9 | 2649.6 | 615.6  | 520.7  | 621.1  | 794.6  | 797.3  | 678.0  | 575.0  | 542.4  | 542.4  |
| 57.5° | 5974.5 | 2392.0 | 539.7  | 477.3  | 577.6  | 770.2  | 772.9  | 659.1  | 553.3  | 507.1  | 501.7  |
| 60°   | 4596.8 | 1619.1 | 450.2  | 425.8  | 523.4  | 694.3  | 707.8  | 599.4  | 485.5  | 450.2  | 447.5  |
| 62.5° | 2595.4 | 897.6  | 396.0  | 385.1  | 450.2  | 591.2  | 631.9  | 523.4  | 412.2  | 393.2  | 398.6  |
| 65°   | 1185.1 | 493.6  | 333.6  | 311.9  | 363.4  | 455.6  | 509.9  | 431.2  | 339.0  | 317.3  | 317.3  |
| 67.5° | 433.9  | 336.3  | 284.8  | 246.8  | 254.9  | 295.6  | 330.9  | 279.3  | 225.1  | 192.5  | 200.7  |
| 70°   | 309.1  | 282.0  | 249.5  | 214.2  | 197.9  | 192.5  | 189.9  | 157.3  | 111.2  | 86.8   | 92.2   |
| 72.5° | 249.5  | 233.3  | 208.8  | 181.7  | 154.6  | 130.2  | 111.2  | 81.4   | 51.5   | 35.2   | 32.6   |
| 75°   | 179.0  | 170.9  | 151.9  | 130.2  | 108.4  | 92.2   | 76.0   | 51.5   | 27.1   | 13.5   | 13.5   |
| 77.5° | 92.2   | 92.2   | 89.5   | 81.4   | 67.8   | 54.3   | 43.4   | 29.8   | 16.3   | 5.4    | 5.4    |
| 80°   | 70.5   | 76.0   | 78.6   | 70.5   | 62.4   | 48.8   | 35.2   | 21.7   | 10.9   | 2.7    | 2.7    |
| 82.5° | 67.8   | 78.6   | 84.1   | 73.2   | 62.4   | 46.1   | 35.2   | 21.7   | 10.9   | 2.7    | 2.7    |
| 85°   | 16.3   | 16.3   | 24.4   | 27.1   | 35.2   | 38.0   | 29.8   | 18.9   | 8.1    | 2.7    | 2.7    |
| 87.5° | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 2.7    | 2.7    | 2.7    | 2.7    | 0.0    |
| 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)