

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: P529464

Luminaire Tested: **GALN-SA4C-760-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-760-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24440 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

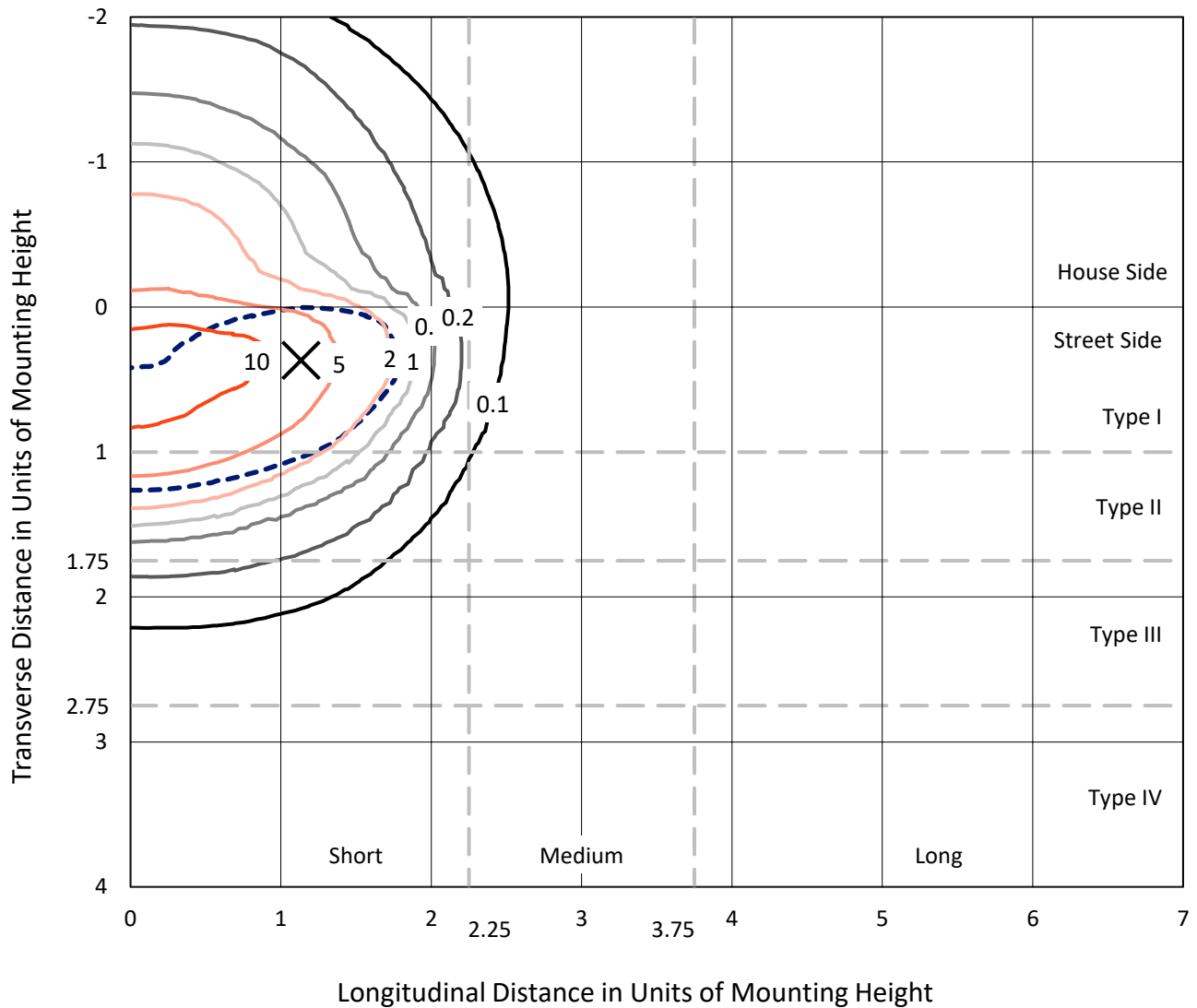
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

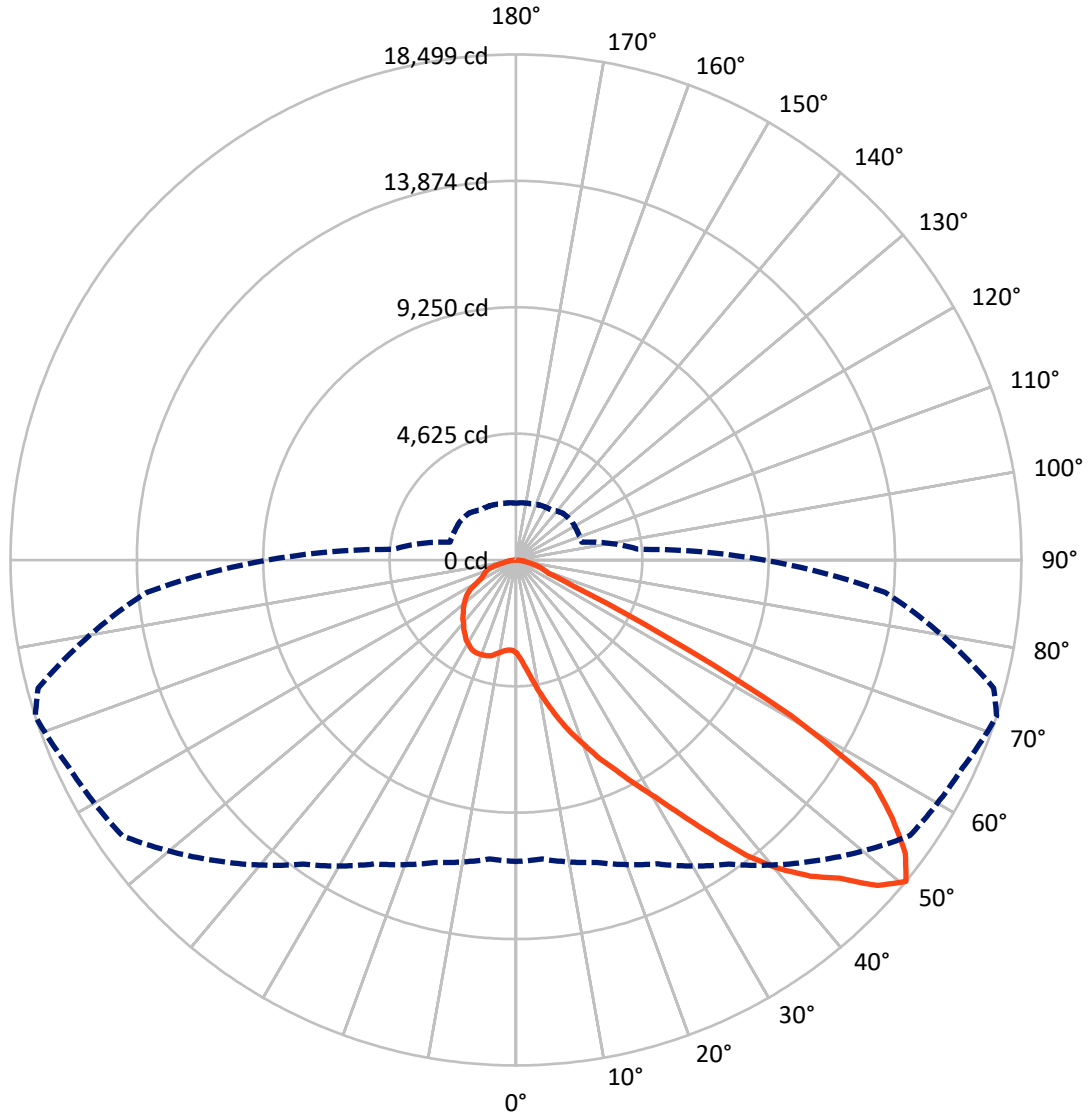
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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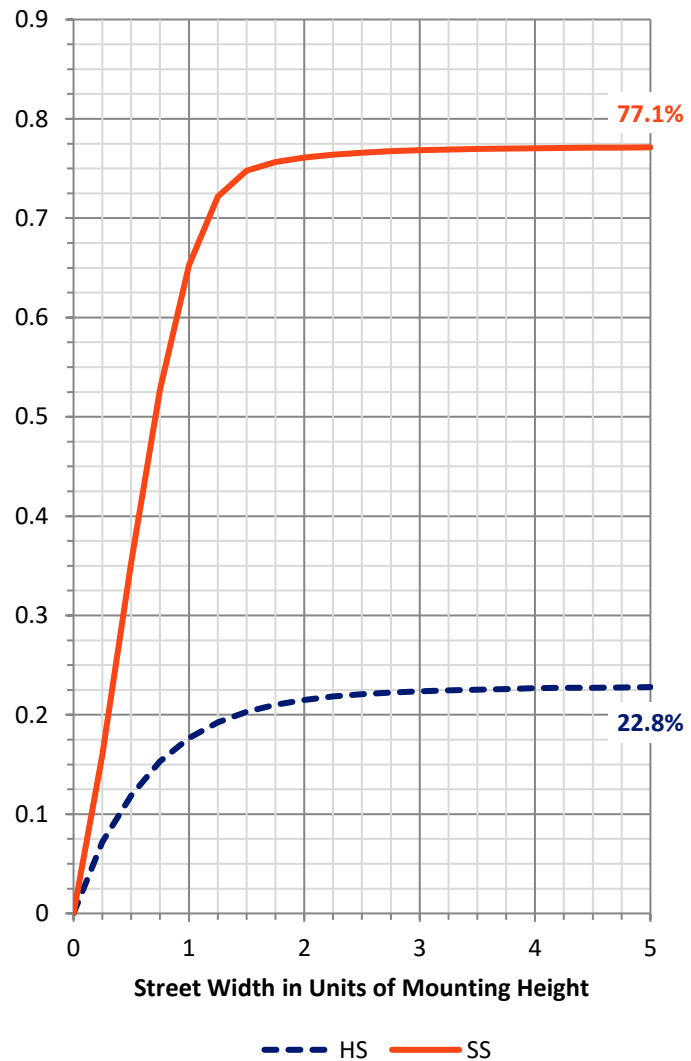
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5599.3   | 0.0    | 5599.3  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 18840.6  | 0.0    | 18840.6 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 24440.0  | 0.0    | 24440.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 400.2   | 1.6       |
| 10°-20°   | 1496.1  | 6.1       |
| 20°-30°   | 2900.7  | 11.9      |
| 30°-40°   | 4805.5  | 19.7      |
| 40°-50°   | 6724.0  | 27.5      |
| 50°-60°   | 5672.5  | 23.2      |
| 60°-70°   | 1729.0  | 7.1       |
| 70°-80°   | 606.6   | 2.5       |
| 80°-90°   | 105.5   | 0.4       |
| 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°    | 24440.0 | 100.0     |
| 0°-180°   | 24440.0 | 100.0     |



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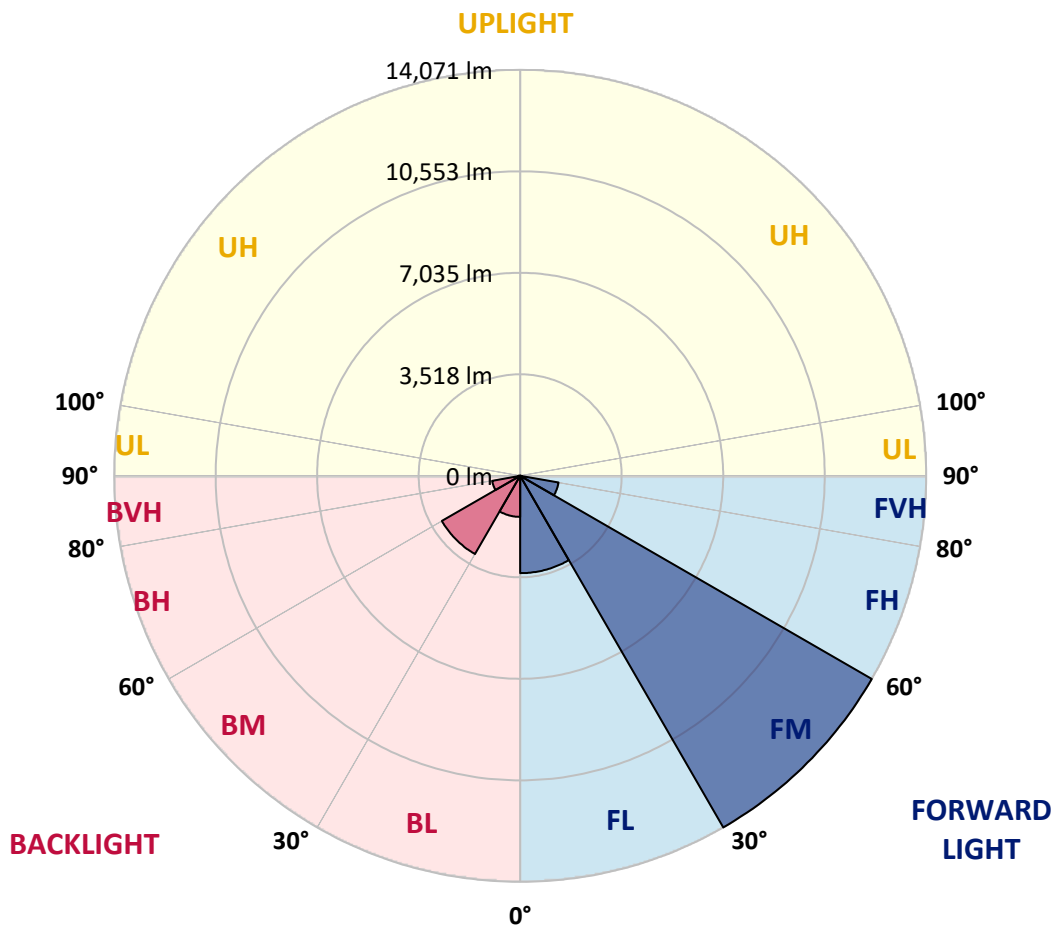
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3373.6  | 13.8      |                         |      |         |
| FM (30°-60°)   | 14070.8 | 57.6      |                         |      |         |
| FH (60°-80°)   | 1349.1  | 5.5       |                         |      | G1/1800 |
| FVH (80°-90°)  | 47.2    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1423.4  | 5.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3131.2  | 12.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 986.5   | 4.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 58.2    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3402.3  | 3402.3  | 3402.3  | 3402.3  | 3402.3  | 3402.3  | 3402.3  | 3402.3  | 3402.3  | 3402.3  | 3402.3  |
| 2.5°  | 4376.1  | 4348.8  | 4267.2  | 4240.0  | 4143.2  | 3967.8  | 3907.3  | 3728.9  | 3653.3  | 3583.7  | 3502.1  |
| 5°    | 5534.3  | 5407.3  | 5398.2  | 5244.0  | 5020.2  | 4890.2  | 4503.1  | 4243.0  | 4004.1  | 3883.1  | 3659.3  |
| 7.5°  | 6272.2  | 6275.3  | 6275.3  | 6148.3  | 5969.8  | 5640.2  | 5292.4  | 4823.6  | 4463.8  | 4285.3  | 3904.3  |
| 10°   | 6973.9  | 6913.4  | 6880.1  | 6868.0  | 6747.1  | 6426.5  | 6054.5  | 5473.9  | 4980.9  | 4772.2  | 4088.8  |
| 12.5° | 7469.8  | 7418.4  | 7494.0  | 7454.7  | 7367.0  | 7158.3  | 6807.5  | 6145.2  | 5528.3  | 5247.0  | 4385.1  |
| 15°   | 7705.7  | 7742.0  | 7802.5  | 7911.4  | 7872.1  | 7793.4  | 7406.3  | 6834.8  | 6118.0  | 5800.5  | 4648.2  |
| 17.5° | 8068.6  | 7968.8  | 8041.4  | 8177.5  | 8286.4  | 8250.1  | 8029.3  | 7333.8  | 6701.7  | 6311.6  | 5002.1  |
| 20°   | 8322.7  | 8265.2  | 8301.5  | 8458.8  | 8540.4  | 8746.1  | 8631.1  | 7987.0  | 7261.2  | 6849.9  | 5419.4  |
| 22.5° | 9048.5  | 8963.8  | 8845.9  | 8870.1  | 8900.3  | 9045.5  | 9072.7  | 8703.7  | 7911.4  | 7475.9  | 5815.6  |
| 25°   | 9943.7  | 9865.0  | 9725.9  | 9583.8  | 9496.1  | 9468.9  | 9562.6  | 9266.2  | 8534.4  | 8083.8  | 6242.0  |
| 27.5° | 10929.6 | 10796.5 | 10708.8 | 10415.4 | 10179.6 | 10143.3 | 10097.9 | 9937.6  | 9272.3  | 8785.4  | 6722.9  |
| 30°   | 11888.2 | 11782.4 | 11664.4 | 11195.7 | 10950.7 | 10911.4 | 10687.6 | 10733.0 | 10073.7 | 9532.4  | 7267.2  |
| 32.5° | 12614.1 | 12623.1 | 12354.0 | 12000.1 | 11770.3 | 11561.6 | 11480.0 | 11610.0 | 11101.9 | 10666.5 | 7875.1  |
| 35°   | 13200.8 | 13228.0 | 12970.9 | 12650.3 | 12402.4 | 12547.5 | 12511.2 | 12571.7 | 12329.8 | 11797.5 | 8582.8  |
| 37.5° | 13772.3 | 13636.2 | 13361.0 | 13206.8 | 13076.8 | 13315.7 | 13624.1 | 13675.6 | 13720.9 | 13094.9 | 9405.3  |
| 40°   | 13866.1 | 13878.2 | 13717.9 | 13826.8 | 13663.5 | 14023.3 | 14740.1 | 14673.6 | 14858.0 | 14310.6 | 10297.5 |
| 42.5° | 13733.0 | 13760.2 | 13823.7 | 13978.0 | 14371.1 | 14803.6 | 15868.1 | 15595.9 | 15819.7 | 15332.8 | 11165.4 |
| 45°   | 13515.3 | 13403.4 | 13482.0 | 14068.7 | 14749.2 | 15710.9 | 16899.4 | 16687.7 | 16615.1 | 16206.8 | 12199.7 |
| 47.5° | 12474.9 | 12589.9 | 12834.8 | 13557.6 | 14579.8 | 15868.1 | 17631.2 | 17582.9 | 17800.6 | 17513.3 | 13140.3 |
| 50°   | 11032.4 | 10987.0 | 11458.8 | 12272.3 | 13590.9 | 15559.7 | 17591.9 | 18030.4 | 18499.2 | 18100.0 | 13560.6 |
| 52.5° | 8262.2  | 8504.1  | 8909.4  | 9919.5  | 11800.5 | 13878.2 | 16733.1 | 17464.9 | 17846.0 | 17761.3 | 13221.9 |
| 55°   | 5222.8  | 5295.4  | 5540.4  | 6741.0  | 8434.6  | 11138.2 | 14343.9 | 16040.5 | 16721.0 | 17038.5 | 12910.4 |
| 57.5° | 2537.3  | 2401.2  | 2700.6  | 3665.4  | 4872.0  | 7491.0  | 11062.6 | 13971.9 | 15450.8 | 16025.4 | 12233.0 |
| 60°   | 1324.6  | 1376.0  | 1494.0  | 1838.7  | 2519.2  | 3889.2  | 6895.2  | 9311.6  | 11570.7 | 12453.8 | 9272.3  |
| 62.5° | 1097.8  | 1115.9  | 1194.6  | 1367.0  | 1675.4  | 2237.9  | 3520.2  | 4539.4  | 5900.3  | 6695.6  | 5274.3  |
| 65°   | 931.5   | 940.5   | 1025.2  | 1140.1  | 1336.7  | 1575.6  | 1811.5  | 1896.2  | 2295.4  | 2355.9  | 1875.0  |
| 67.5° | 777.2   | 786.3   | 877.0   | 985.9   | 1112.9  | 1176.4  | 1236.9  | 1230.9  | 1276.2  | 1258.1  | 1255.1  |
| 70°   | 598.8   | 607.9   | 701.6   | 816.5   | 880.1   | 843.8   | 1031.3  | 1073.6  | 1091.7  | 1106.9  | 1131.1  |
| 72.5° | 432.5   | 450.6   | 523.2   | 604.8   | 571.6   | 656.3   | 849.8   | 913.3   | 937.5   | 946.6   | 976.8   |
| 75°   | 314.5   | 320.6   | 338.7   | 314.5   | 362.9   | 456.7   | 598.8   | 677.4   | 707.7   | 716.7   | 762.1   |
| 77.5° | 139.1   | 142.1   | 145.2   | 181.5   | 232.9   | 284.3   | 356.9   | 420.4   | 462.7   | 474.8   | 486.9   |
| 80°   | 72.6    | 75.6    | 93.8    | 124.0   | 166.3   | 208.7   | 260.1   | 296.4   | 323.6   | 326.6   | 338.7   |
| 82.5° | 45.4    | 48.4    | 66.5    | 87.7    | 117.9   | 154.2   | 190.5   | 220.8   | 241.9   | 245.0   | 248.0   |
| 85°   | 21.2    | 27.2    | 39.3    | 54.4    | 78.6    | 99.8    | 102.8   | 87.7    | 93.8    | 96.8    | 90.7    |
| 87.5° | 6.0     | 9.1     | 12.1    | 9.1     | 12.1    | 12.1    | 15.1    | 18.1    | 18.1    | 18.1    | 21.2    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3402.3 | 3402.3 | 3402.3 | 3402.3 | 3402.3 | 3402.3 | 3402.3 | 3402.3 | 3402.3 | 3402.3 | 3402.3 |
| 2.5°  | 3456.7 | 3429.5 | 3323.6 | 3284.3 | 3181.5 | 3199.6 | 3145.2 | 3142.2 | 3130.1 | 3127.1 | 3124.0 |
| 5°    | 3541.4 | 3456.7 | 3329.7 | 3232.9 | 3175.4 | 3169.4 | 3130.1 | 3130.1 | 3142.2 | 3151.2 | 3130.1 |
| 7.5°  | 3680.5 | 3583.7 | 3369.0 | 3278.3 | 3226.9 | 3217.8 | 3190.6 | 3169.4 | 3196.6 | 3187.5 | 3163.3 |
| 10°   | 3840.8 | 3671.4 | 3444.6 | 3366.0 | 3281.3 | 3260.1 | 3260.1 | 3269.2 | 3223.8 | 3238.9 | 3214.8 |
| 12.5° | 4019.2 | 3792.4 | 3541.4 | 3450.6 | 3350.8 | 3338.7 | 3332.7 | 3266.2 | 3290.4 | 3278.3 | 3217.8 |
| 15°   | 4246.0 | 3931.5 | 3665.4 | 3511.1 | 3426.5 | 3372.0 | 3293.4 | 3281.3 | 3266.2 | 3235.9 | 3208.7 |
| 17.5° | 4491.0 | 4082.7 | 3722.8 | 3529.3 | 3402.3 | 3362.9 | 3302.5 | 3238.9 | 3193.6 | 3199.6 | 3178.5 |
| 20°   | 4699.7 | 4221.8 | 3744.0 | 3547.4 | 3384.1 | 3308.5 | 3214.8 | 3175.4 | 3127.1 | 3124.0 | 3121.0 |
| 22.5° | 4947.6 | 4409.3 | 3774.2 | 3499.0 | 3329.7 | 3251.0 | 3187.5 | 3118.0 | 3084.7 | 3042.4 | 3063.5 |
| 25°   | 5244.0 | 4481.9 | 3780.3 | 3471.8 | 3290.4 | 3151.2 | 3118.0 | 3042.4 | 3030.3 | 2969.8 | 2981.9 |
| 27.5° | 5458.7 | 4521.2 | 3731.9 | 3387.1 | 3199.6 | 3093.8 | 3033.3 | 2978.9 | 2957.7 | 2912.3 | 2900.2 |
| 30°   | 5746.0 | 4581.7 | 3629.1 | 3281.3 | 3108.9 | 2991.0 | 2954.7 | 2942.6 | 2882.1 | 2833.7 | 2827.7 |
| 32.5° | 6072.6 | 4621.0 | 3562.5 | 3172.4 | 3015.2 | 2924.4 | 2942.6 | 2885.1 | 2809.5 | 2767.2 | 2755.1 |
| 35°   | 6332.7 | 4636.1 | 3396.2 | 3048.4 | 2951.6 | 2894.2 | 2873.0 | 2860.9 | 2752.0 | 2712.7 | 2682.5 |
| 37.5° | 6728.9 | 4602.9 | 3257.1 | 2960.7 | 2882.1 | 2860.9 | 2842.8 | 2761.1 | 2637.1 | 2579.7 | 2537.3 |
| 40°   | 7191.6 | 4593.8 | 3078.7 | 2836.7 | 2815.6 | 2839.8 | 2785.3 | 2658.3 | 2485.9 | 2422.4 | 2392.2 |
| 42.5° | 7636.2 | 4657.3 | 2966.8 | 2770.2 | 2743.0 | 2752.0 | 2676.4 | 2485.9 | 2401.2 | 2364.9 | 2316.6 |
| 45°   | 8380.1 | 4790.4 | 2782.3 | 2667.4 | 2655.3 | 2649.2 | 2558.5 | 2358.9 | 2310.5 | 2265.1 | 2256.1 |
| 47.5° | 9051.5 | 4702.7 | 2664.3 | 2561.5 | 2573.6 | 2540.4 | 2346.8 | 2283.3 | 2228.9 | 2183.5 | 2168.4 |
| 50°   | 9090.8 | 4494.0 | 2498.0 | 2479.9 | 2482.9 | 2425.4 | 2241.0 | 2198.6 | 2129.1 | 2098.8 | 2077.6 |
| 52.5° | 8885.2 | 4152.3 | 2343.8 | 2349.8 | 2358.9 | 2265.1 | 2110.9 | 2080.7 | 2023.2 | 1980.9 | 1968.8 |
| 55°   | 8307.6 | 3620.0 | 2192.6 | 2216.8 | 2241.0 | 2062.5 | 2014.1 | 1938.5 | 1893.2 | 1832.7 | 1835.7 |
| 57.5° | 7318.6 | 2915.4 | 1980.9 | 2020.2 | 2071.6 | 1875.0 | 1838.7 | 1745.0 | 1678.4 | 1630.1 | 1624.0 |
| 60°   | 4905.3 | 2074.6 | 1663.3 | 1678.4 | 1793.4 | 1714.7 | 1711.7 | 1618.0 | 1527.2 | 1484.9 | 1460.7 |
| 62.5° | 2894.2 | 1584.7 | 1436.5 | 1421.4 | 1418.4 | 1463.7 | 1539.3 | 1506.1 | 1388.1 | 1306.5 | 1330.7 |
| 65°   | 1515.1 | 1370.0 | 1336.7 | 1285.3 | 1255.1 | 1243.0 | 1300.4 | 1315.5 | 1236.9 | 1149.2 | 1143.2 |
| 67.5° | 1273.2 | 1273.2 | 1246.0 | 1227.8 | 1185.5 | 1134.1 | 1097.8 | 1049.4 | 1037.3 | 1013.1 | 982.9  |
| 70°   | 1158.3 | 1188.5 | 1179.4 | 1137.1 | 1100.8 | 1043.4 | 949.6  | 871.0  | 795.4  | 768.2  | 786.3  |
| 72.5° | 1010.1 | 1040.3 | 1040.3 | 1019.2 | 970.8  | 883.1  | 792.3  | 701.6  | 638.1  | 589.7  | 583.7  |
| 75°   | 777.2  | 792.3  | 828.6  | 804.4  | 740.9  | 686.5  | 592.7  | 499.0  | 438.5  | 393.1  | 384.1  |
| 77.5° | 496.0  | 520.2  | 520.2  | 517.1  | 471.8  | 420.4  | 359.9  | 293.4  | 248.0  | 214.7  | 205.6  |
| 80°   | 329.6  | 344.8  | 356.9  | 344.8  | 314.5  | 275.2  | 229.8  | 184.5  | 151.2  | 124.0  | 117.9  |
| 82.5° | 241.9  | 260.1  | 269.2  | 257.1  | 226.8  | 196.6  | 163.3  | 130.0  | 96.8   | 75.6   | 69.6   |
| 85°   | 93.8   | 96.8   | 108.9  | 130.0  | 127.0  | 124.0  | 99.8   | 72.6   | 54.4   | 39.3   | 36.3   |
| 87.5° | 24.2   | 21.2   | 24.2   | 24.2   | 21.2   | 18.1   | 18.1   | 18.1   | 18.1   | 9.1    | 12.1   |
| 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)