

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: P528907

Luminaire Tested: **GALN-SA4A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9837 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

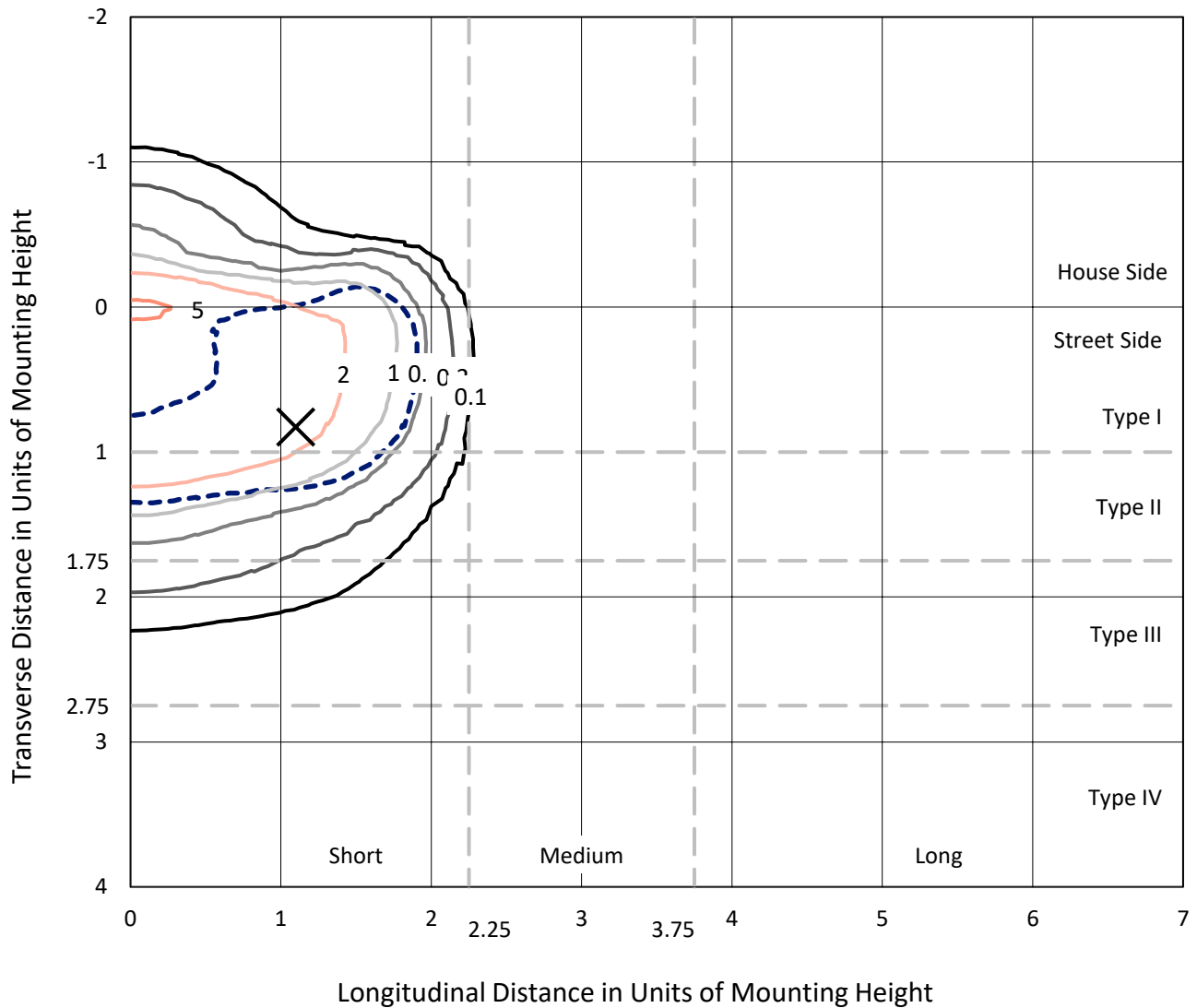
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

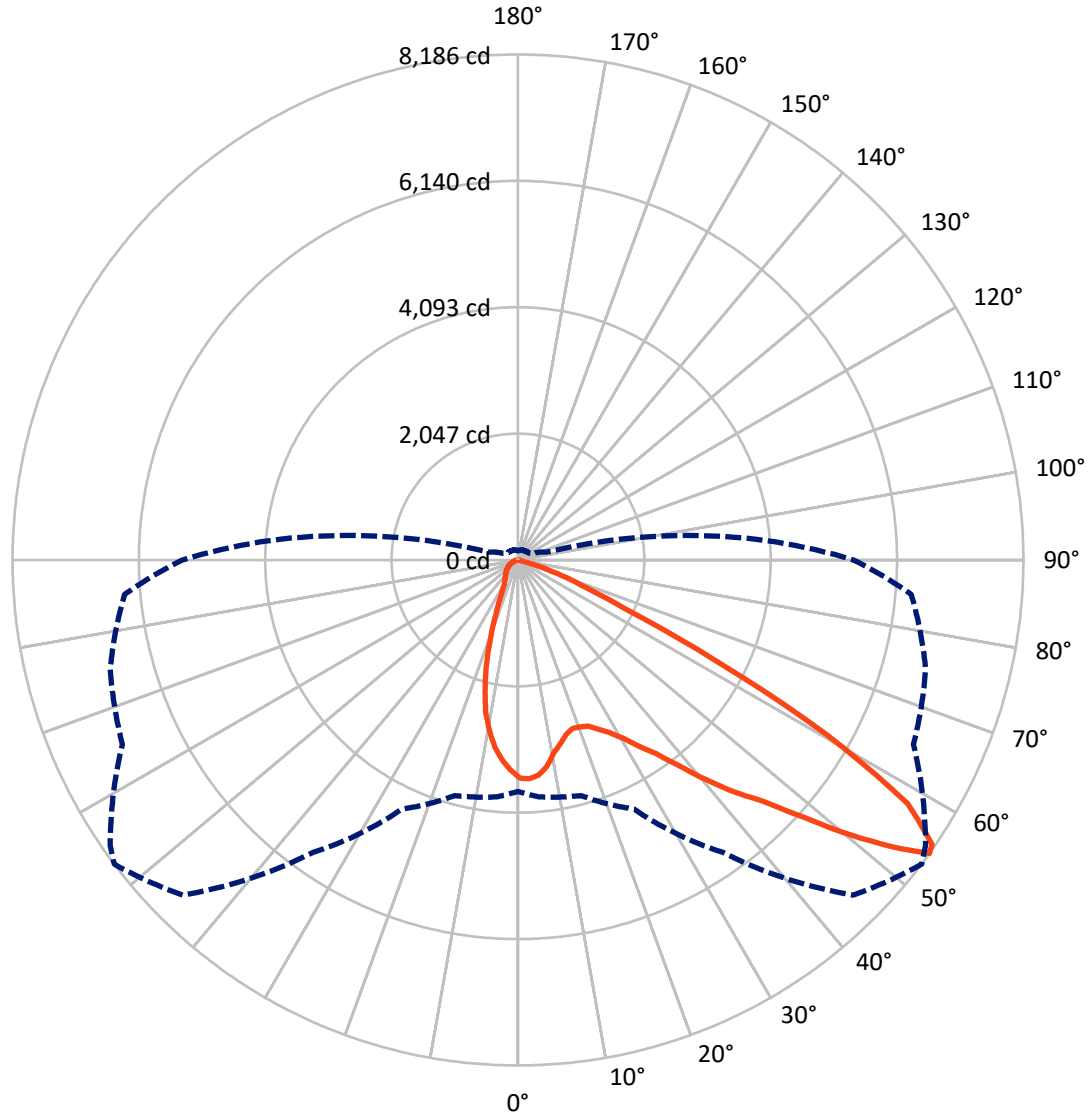
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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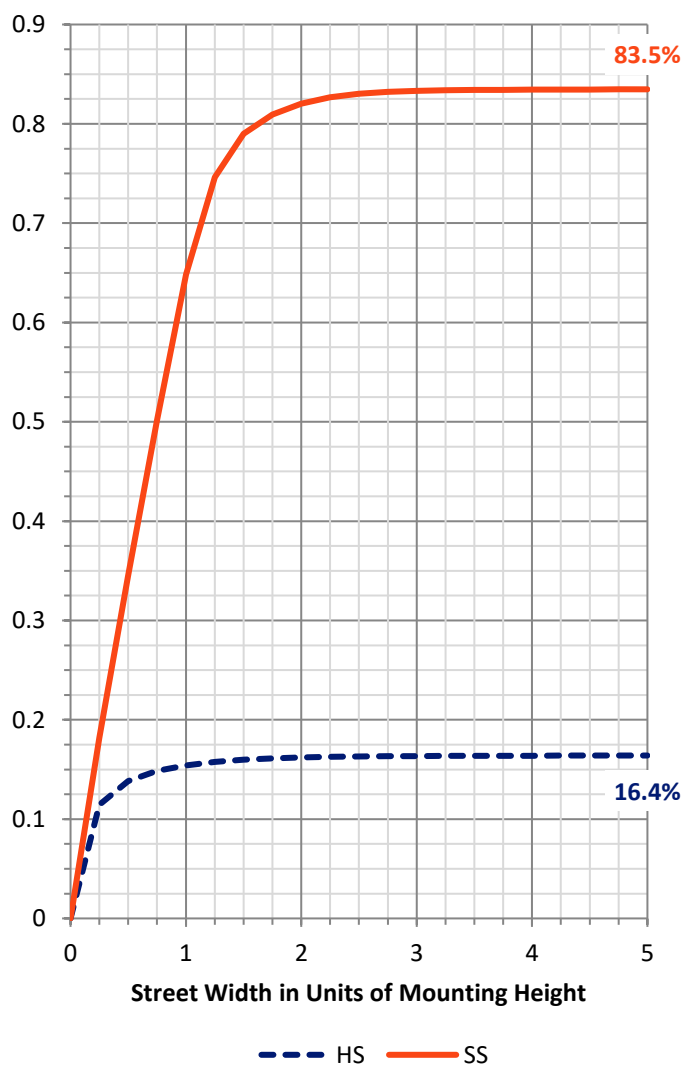
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1627.6   | 0.0    | 1627.6 |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 8209.4   | 0.0    | 8209.4 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 9837.0   | 0.0    | 9837.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 303.1  | 3.1       |
| 10°-20°   | 695.0  | 7.1       |
| 20°-30°   | 987.8  | 10.0      |
| 30°-40°   | 1524.4 | 15.5      |
| 40°-50°   | 2390.1 | 24.3      |
| 50°-60°   | 2776.4 | 28.2      |
| 60°-70°   | 1049.1 | 10.7      |
| 70°-80°   | 99.8   | 1.0       |
| 80°-90°   | 11.2   | 0.1       |
| 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°    | 9837.0 | 100.0     |
| 0°-180°   | 9837.0 | 100.0     |

**Coefficient of Utilization**

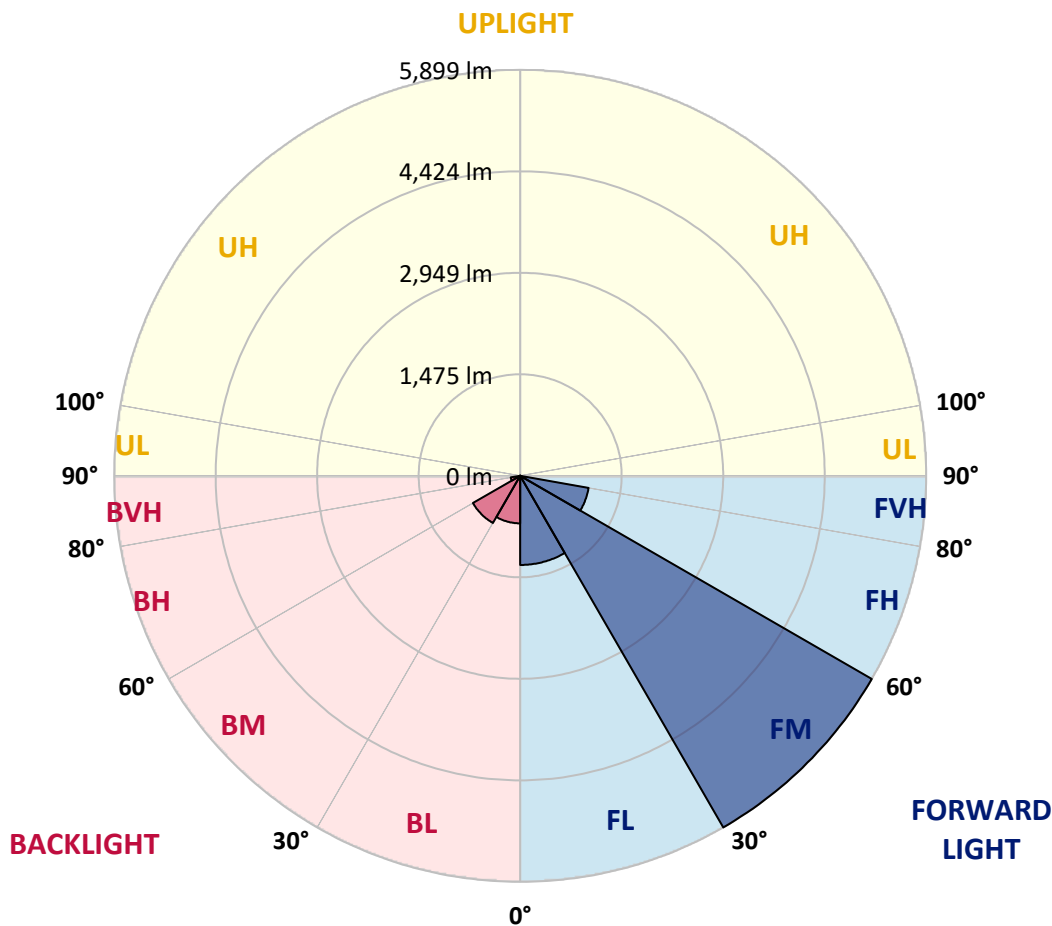


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1295.3 | 13.2      |                         |      |         |
| FM (30°-60°)   | 5898.9 | 60.0      |                         |      |         |
| FH (60°-80°)   | 1009.4 | 10.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 5.8    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 690.7  | 7.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 792.0  | 8.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 139.5  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.4    | 0.1       |                         |      | G0/10   |
| 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°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 |
| 2.5°  | 3515.0 | 3483.8 | 3515.0 | 3518.6 | 3540.6 | 3560.8 | 3547.9 | 3577.3 | 3560.8 | 3542.4 | 3536.9 |
| 5°    | 3230.9 | 3273.1 | 3274.9 | 3340.9 | 3326.2 | 3447.2 | 3500.3 | 3485.6 | 3575.4 | 3569.9 | 3557.1 |
| 7.5°  | 2976.2 | 2959.7 | 2981.7 | 3058.6 | 3155.8 | 3295.0 | 3372.0 | 3370.2 | 3498.5 | 3590.1 | 3580.9 |
| 10°   | 2739.8 | 2737.9 | 2783.7 | 2844.2 | 2926.7 | 3073.3 | 3179.6 | 3232.7 | 3432.5 | 3571.8 | 3591.9 |
| 12.5° | 2580.3 | 2573.0 | 2622.5 | 2672.0 | 2802.1 | 2915.7 | 3051.3 | 3077.0 | 3306.0 | 3507.6 | 3540.6 |
| 15°   | 2475.9 | 2492.4 | 2496.0 | 2591.3 | 2673.8 | 2824.1 | 2930.4 | 2983.5 | 3247.4 | 3456.3 | 3582.8 |
| 17.5° | 2457.5 | 2479.5 | 2481.4 | 2560.2 | 2648.1 | 2774.6 | 2868.0 | 2939.5 | 3197.9 | 3482.0 | 3584.6 |
| 20°   | 2494.2 | 2481.4 | 2492.4 | 2541.8 | 2628.0 | 2748.9 | 2884.5 | 2908.4 | 3181.4 | 3494.8 | 3604.8 |
| 22.5° | 2598.7 | 2595.0 | 2567.5 | 2607.8 | 2668.3 | 2794.7 | 2923.0 | 2959.7 | 3229.1 | 3560.8 | 3621.3 |
| 25°   | 2714.1 | 2734.3 | 2708.6 | 2703.1 | 2745.3 | 2869.9 | 3040.3 | 3088.0 | 3388.5 | 3679.9 | 3672.6 |
| 27.5° | 2930.4 | 2910.2 | 2910.2 | 2884.5 | 2873.5 | 2934.0 | 3166.8 | 3245.6 | 3566.3 | 3833.8 | 3731.2 |
| 30°   | 3137.4 | 3159.4 | 3142.9 | 3152.1 | 3078.8 | 3073.3 | 3346.4 | 3443.5 | 3881.5 | 4068.4 | 3855.8 |
| 32.5° | 3465.5 | 3436.2 | 3463.6 | 3439.8 | 3342.7 | 3243.7 | 3590.1 | 3690.9 | 4262.7 | 4337.8 | 4042.8 |
| 35°   | 3738.5 | 3725.7 | 3843.0 | 3839.3 | 3681.7 | 3584.6 | 3848.5 | 3998.8 | 4528.4 | 4660.3 | 4262.7 |
| 37.5° | 4127.1 | 4103.2 | 4237.0 | 4301.2 | 4160.0 | 4015.3 | 4218.7 | 4392.8 | 4775.8 | 4918.7 | 4488.1 |
| 40°   | 4526.6 | 4587.0 | 4766.6 | 4872.9 | 4722.7 | 4530.2 | 4671.3 | 4724.5 | 4940.7 | 5087.3 | 4642.0 |
| 42.5° | 5032.4 | 5120.3 | 5303.6 | 5395.2 | 5382.4 | 5173.5 | 5131.3 | 5129.5 | 5059.9 | 5039.7 | 4755.6 |
| 45°   | 5518.0 | 5485.0 | 5767.2 | 5967.0 | 6128.3 | 6067.8 | 5574.8 | 5519.8 | 5248.6 | 5111.2 | 4785.0 |
| 47.5° | 5730.6 | 5719.6 | 5912.0 | 6267.5 | 6817.3 | 6892.5 | 6219.9 | 6007.3 | 5567.5 | 5411.7 | 4944.4 |
| 50°   | 5455.7 | 5512.5 | 5703.1 | 6097.1 | 6940.1 | 7513.7 | 7011.6 | 6725.7 | 5939.5 | 5778.2 | 5321.9 |
| 52.5° | 4557.7 | 4596.2 | 4777.6 | 5277.9 | 6522.3 | 7880.3 | 7770.3 | 7605.4 | 6623.1 | 6355.5 | 5979.8 |
| 54°   | 3747.7 | 3850.3 | 3949.3 | 4451.4 | 5778.2 | 7676.8 | 8186.3 | 8059.8 | 7068.4 | 6835.7 | 6394.0 |
| 55°   | 3263.9 | 3324.4 | 3395.8 | 3896.1 | 5263.3 | 7332.3 | 8138.6 | 8149.6 | 7367.1 | 6985.9 | 6672.6 |
| 57.5° | 2384.2 | 2426.4 | 2353.1 | 2574.8 | 3613.9 | 5954.2 | 7444.1 | 7741.0 | 7770.3 | 7211.3 | 6843.0 |
| 60°   | 1821.6 | 1839.9 | 1757.5 | 1792.3 | 2246.8 | 4086.7 | 5758.1 | 6115.4 | 7009.8 | 6302.4 | 5796.6 |
| 62.5° | 1412.9 | 1416.6 | 1414.8 | 1475.3 | 1548.6 | 2404.4 | 3601.1 | 3918.1 | 4832.6 | 4475.2 | 3936.5 |
| 65°   | 1040.9 | 1024.4 | 1053.8 | 1237.0 | 1321.3 | 1511.9 | 1896.8 | 2127.7 | 2626.1 | 2217.5 | 1585.2 |
| 67.5° | 674.4  | 679.9  | 709.2  | 920.0  | 1132.6 | 1160.0 | 1167.4 | 1149.1 | 1150.9 | 634.1  | 397.7  |
| 70°   | 405.0  | 414.2  | 405.0  | 520.5  | 810.0  | 832.0  | 760.5  | 742.2  | 579.1  | 150.3  | 148.4  |
| 72.5° | 240.1  | 227.2  | 203.4  | 223.6  | 337.2  | 403.2  | 362.9  | 361.0  | 227.2  | 88.0   | 88.0   |
| 75°   | 100.8  | 91.6   | 75.1   | 67.8   | 89.8   | 86.1   | 86.1   | 77.0   | 60.5   | 58.6   | 55.0   |
| 77.5° | 20.2   | 20.2   | 14.7   | 16.5   | 22.0   | 25.7   | 31.2   | 31.2   | 36.7   | 36.7   | 34.8   |
| 80°   | 0.0    | 1.8    | 5.5    | 11.0   | 16.5   | 23.8   | 27.5   | 27.5   | 31.2   | 31.2   | 25.7   |
| 82.5° | 0.0    | 1.8    | 5.5    | 11.0   | 14.7   | 22.0   | 27.5   | 27.5   | 31.2   | 33.0   | 27.5   |
| 85°   | 0.0    | 1.8    | 5.5    | 9.2    | 14.7   | 18.3   | 18.3   | 16.5   | 12.8   | 11.0   | 7.3    |
| 87.5° | 0.0    | 0.0    | 1.8    | 3.7    | 1.8    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 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°    | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 | 3533.3 |
| 2.5°  | 3549.8 | 3547.9 | 3504.0 | 3432.5 | 3416.0 | 3355.5 | 3348.2 | 3311.5 | 3331.7 | 3263.9 | 3256.6 |
| 5°    | 3520.5 | 3498.5 | 3445.3 | 3399.5 | 3265.7 | 3170.4 | 3095.3 | 3003.7 | 2950.5 | 2959.7 | 2924.9 |
| 7.5°  | 3562.6 | 3505.8 | 3412.3 | 3252.9 | 3089.8 | 2923.0 | 2833.2 | 2646.3 | 2578.5 | 2477.7 | 2463.0 |
| 10°   | 3518.6 | 3476.5 | 3331.7 | 3067.8 | 2842.4 | 2602.3 | 2391.6 | 2184.5 | 2026.9 | 1959.1 | 1944.4 |
| 12.5° | 3515.0 | 3441.7 | 3199.7 | 2906.5 | 2580.3 | 2235.8 | 1929.7 | 1671.3 | 1515.6 | 1427.6 | 1407.4 |
| 15°   | 3458.1 | 3370.2 | 3051.3 | 2657.3 | 2206.5 | 1777.6 | 1444.1 | 1194.9 | 1075.7 | 1024.4 | 1039.1 |
| 17.5° | 3463.6 | 3331.7 | 2902.9 | 2393.4 | 1838.1 | 1304.8 | 985.9  | 857.7  | 826.5  | 839.3  | 839.3  |
| 20°   | 3458.1 | 3245.6 | 2723.3 | 2089.2 | 1407.4 | 905.3  | 723.9  | 678.1  | 698.2  | 738.5  | 729.4  |
| 22.5° | 3428.8 | 3205.2 | 2558.3 | 1768.5 | 1035.4 | 670.7  | 580.9  | 582.8  | 613.9  | 663.4  | 674.4  |
| 25°   | 3450.8 | 3115.4 | 2349.4 | 1444.1 | 755.0  | 535.1  | 504.0  | 516.8  | 549.8  | 586.4  | 593.8  |
| 27.5° | 3434.3 | 3051.3 | 2131.3 | 1121.6 | 551.6  | 460.0  | 458.2  | 472.8  | 487.5  | 515.0  | 515.0  |
| 30°   | 3452.6 | 2992.7 | 1916.9 | 833.8  | 454.5  | 421.5  | 414.2  | 425.2  | 439.8  | 445.3  | 443.5  |
| 32.5° | 3520.5 | 2948.7 | 1669.5 | 623.1  | 401.3  | 384.8  | 384.8  | 384.8  | 383.0  | 390.3  | 392.2  |
| 35°   | 3668.9 | 2956.0 | 1451.4 | 482.0  | 366.5  | 353.7  | 348.2  | 340.9  | 337.2  | 340.9  | 342.7  |
| 37.5° | 3830.2 | 2952.3 | 1226.0 | 410.5  | 340.9  | 329.9  | 317.0  | 306.0  | 304.2  | 307.9  | 302.4  |
| 40°   | 3901.6 | 2987.2 | 1017.1 | 368.4  | 317.0  | 304.2  | 284.1  | 274.9  | 276.7  | 280.4  | 276.7  |
| 42.5° | 3998.8 | 2998.2 | 881.5  | 335.4  | 295.1  | 274.9  | 262.1  | 251.1  | 249.2  | 254.7  | 252.9  |
| 45°   | 3996.9 | 2935.9 | 738.5  | 317.0  | 274.9  | 252.9  | 236.4  | 227.2  | 227.2  | 230.9  | 232.7  |
| 47.5° | 4114.2 | 2926.7 | 634.1  | 300.5  | 260.2  | 238.2  | 218.1  | 210.8  | 208.9  | 208.9  | 205.3  |
| 50°   | 4387.3 | 3055.0 | 553.5  | 282.2  | 241.9  | 221.7  | 205.3  | 196.1  | 188.8  | 185.1  | 183.3  |
| 52.5° | 4920.6 | 3454.5 | 491.1  | 260.2  | 221.7  | 205.3  | 190.6  | 183.3  | 174.1  | 164.9  | 163.1  |
| 54°   | 5437.4 | 3866.8 | 487.5  | 241.9  | 205.3  | 194.3  | 181.4  | 177.8  | 166.8  | 153.9  | 150.3  |
| 55°   | 5670.1 | 4106.9 | 500.3  | 227.2  | 194.3  | 186.9  | 175.9  | 172.3  | 161.3  | 146.6  | 144.8  |
| 57.5° | 5862.5 | 4200.4 | 493.0  | 188.8  | 175.9  | 174.1  | 164.9  | 159.4  | 146.6  | 126.5  | 122.8  |
| 60°   | 4719.0 | 3175.9 | 353.7  | 166.8  | 161.3  | 157.6  | 150.3  | 146.6  | 130.1  | 108.1  | 106.3  |
| 62.5° | 2981.7 | 1827.1 | 225.4  | 146.6  | 141.1  | 135.6  | 126.5  | 122.8  | 108.1  | 86.1   | 80.6   |
| 65°   | 1270.0 | 756.9  | 152.1  | 130.1  | 121.0  | 111.8  | 104.5  | 99.0   | 86.1   | 64.1   | 62.3   |
| 67.5° | 329.9  | 269.4  | 126.5  | 113.6  | 100.8  | 88.0   | 82.5   | 73.3   | 58.6   | 44.0   | 42.2   |
| 70°   | 148.4  | 135.6  | 106.3  | 95.3   | 80.6   | 67.8   | 60.5   | 51.3   | 38.5   | 29.3   | 27.5   |
| 72.5° | 88.0   | 86.1   | 80.6   | 71.5   | 60.5   | 51.3   | 44.0   | 34.8   | 25.7   | 16.5   | 16.5   |
| 75°   | 55.0   | 53.1   | 55.0   | 49.5   | 42.2   | 38.5   | 33.0   | 23.8   | 14.7   | 7.3    | 7.3    |
| 77.5° | 33.0   | 33.0   | 33.0   | 31.2   | 29.3   | 29.3   | 23.8   | 14.7   | 7.3    | 1.8    | 1.8    |
| 80°   | 25.7   | 25.7   | 27.5   | 25.7   | 25.7   | 25.7   | 20.2   | 11.0   | 3.7    | 0.0    | 0.0    |
| 82.5° | 25.7   | 27.5   | 31.2   | 29.3   | 25.7   | 22.0   | 18.3   | 11.0   | 3.7    | 0.0    | 0.0    |
| 85°   | 7.3    | 5.5    | 9.2    | 12.8   | 18.3   | 16.5   | 12.8   | 9.2    | 3.7    | 0.0    | 0.0    |
| 87.5° | 3.7    | 3.7    | 3.7    | 3.7    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 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    | 0.0    |

(END OF REPORT)