

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: P527218

Luminaire Tested: **GALN-SA2B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8111 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

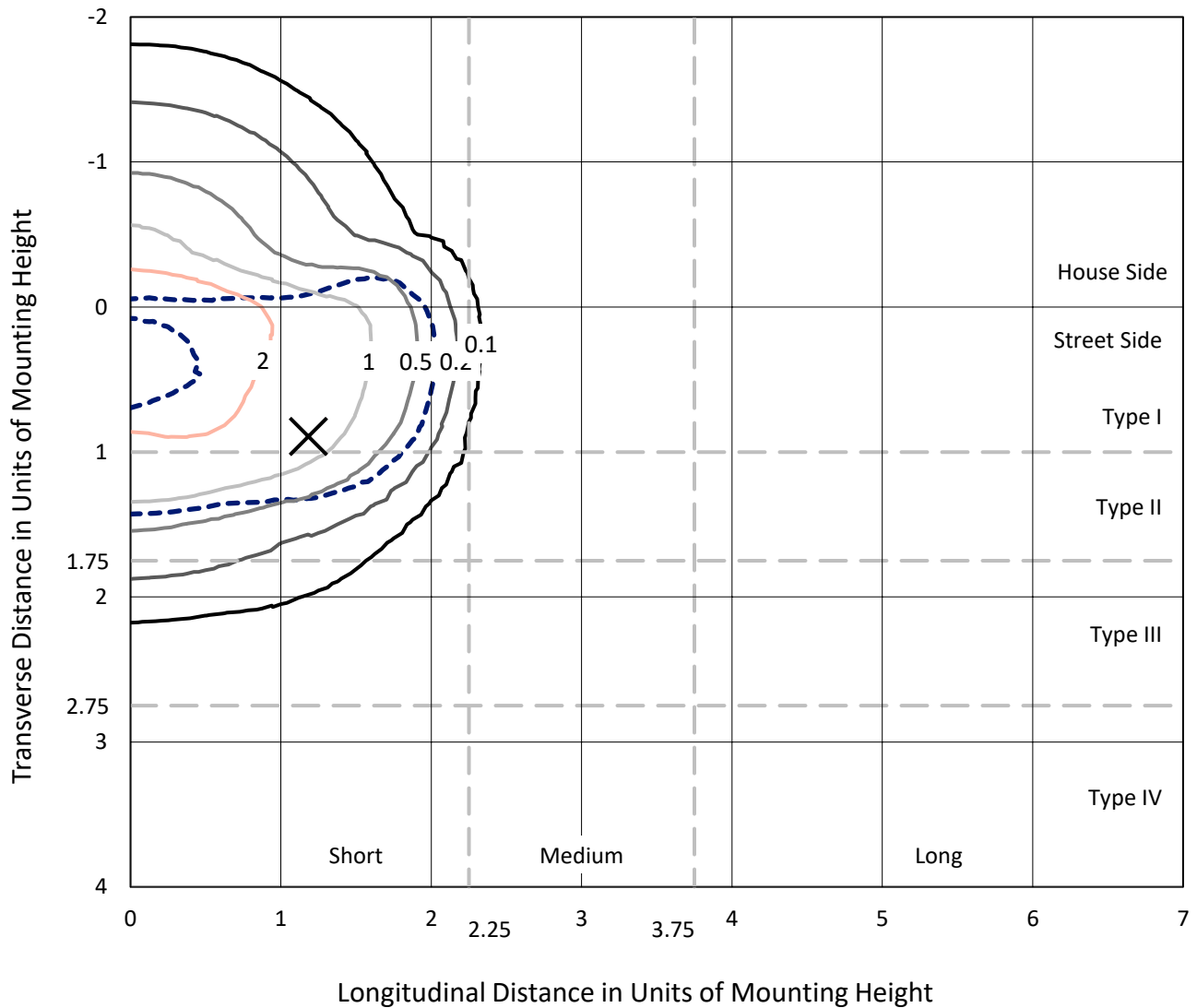
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

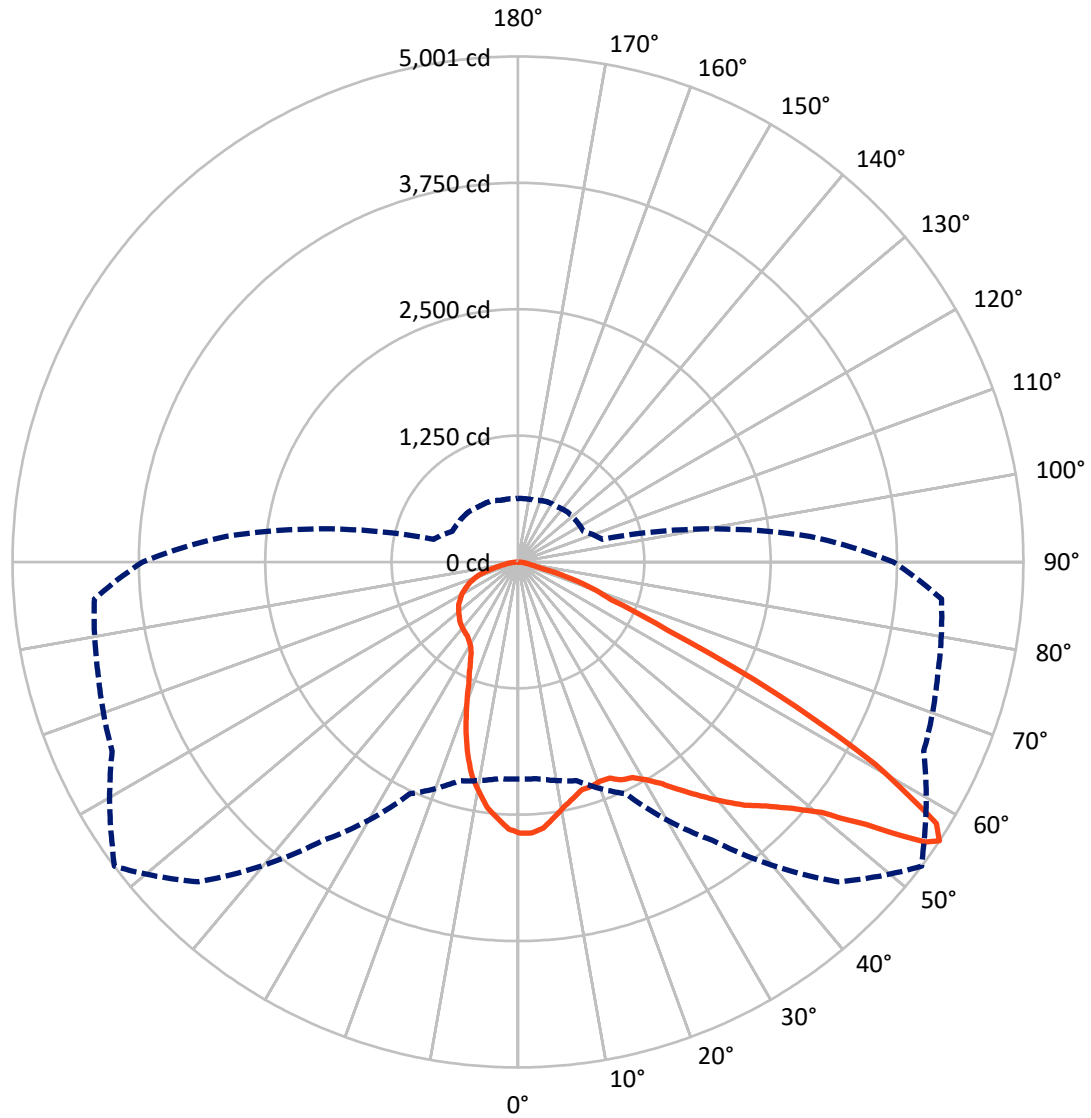
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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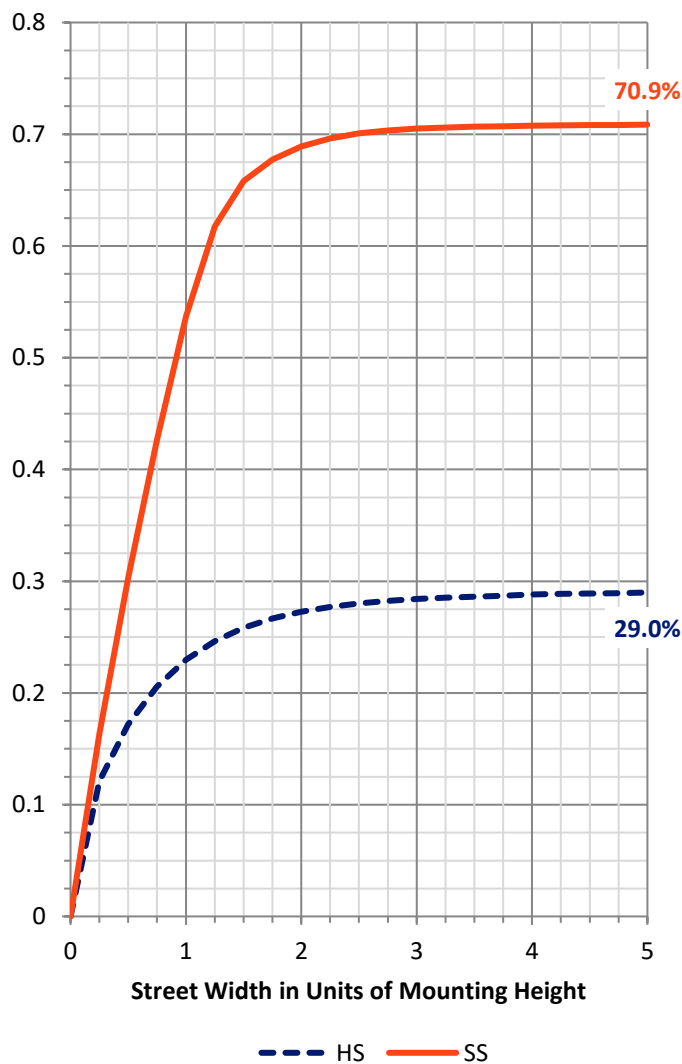
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2367.0   | 0.0    | 2367.0 |
|                    | % Fixture | 29.2     | 0.0    | 29.2   |
| <b>Street Side</b> | Lumens    | 5744.0   | 0.0    | 5744.0 |
|                    | % Fixture | 70.8     | 0.0    | 70.8   |
| <b>Total</b>       | Lumens    | 8111.0   | 0.0    | 8111.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 237.6  | 2.9       |
| 10°-20°   | 593.3  | 7.3       |
| 20°-30°   | 874.9  | 10.8      |
| 30°-40°   | 1250.1 | 15.4      |
| 40°-50°   | 1720.6 | 21.2      |
| 50°-60°   | 2033.2 | 25.1      |
| 60°-70°   | 1083.6 | 13.4      |
| 70°-80°   | 274.9  | 3.4       |
| 80°-90°   | 42.9   | 0.5       |
| 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°    | 8111.0 | 100.0     |
| 0°-180°   | 8111.0 | 100.0     |

**Coefficient of Utilization**



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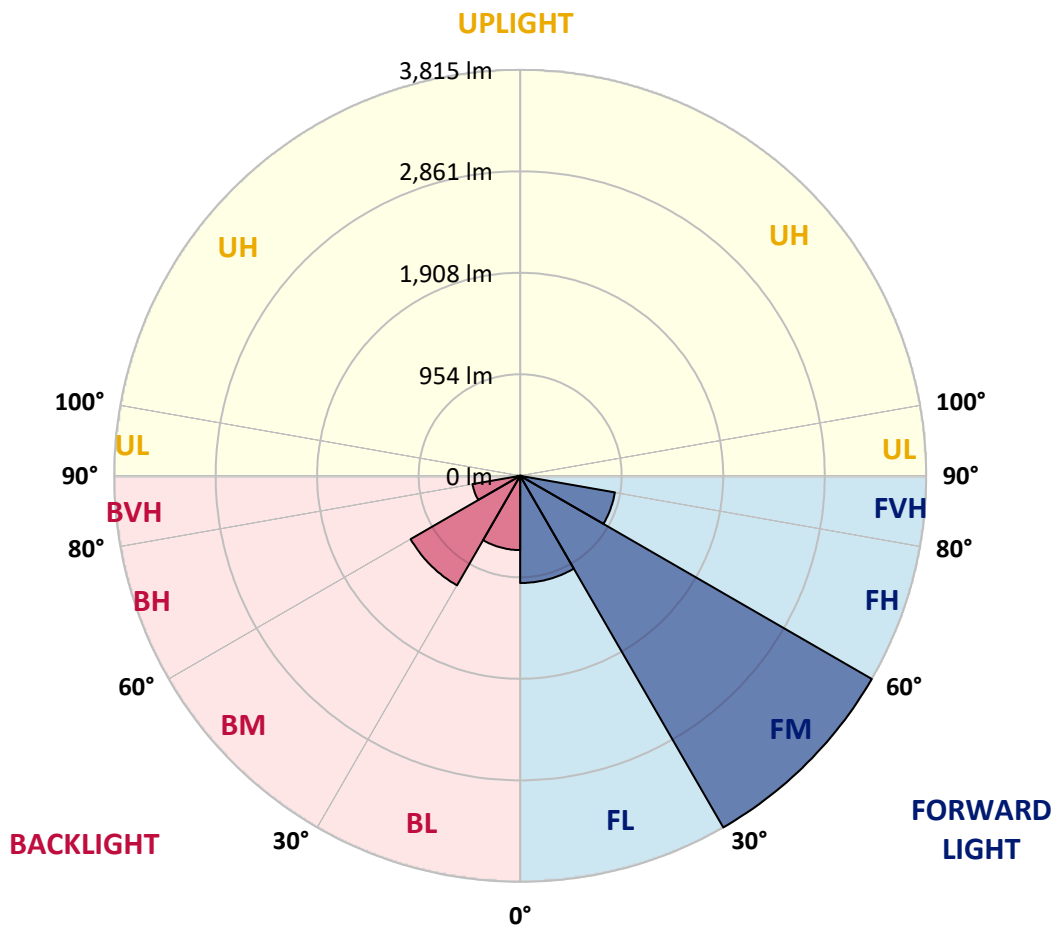
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1007.7 | 12.4      |                         |      |         |
| FM (30°-60°)   | 3815.3 | 47.0      |                         |      |         |
| FH (60°-80°)   | 903.9  | 11.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 17.2   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 698.1  | 8.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1188.6 | 14.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 454.6  | 5.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 25.6   | 0.3       |                         |      | 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°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 |
| 2.5°  | 2650.1 | 2627.3 | 2640.8 | 2635.6 | 2678.2 | 2690.7 | 2684.5 | 2689.7 | 2713.6 | 2702.2 | 2678.2 |
| 5°    | 2476.4 | 2508.6 | 2514.9 | 2530.5 | 2555.5 | 2604.4 | 2642.9 | 2653.3 | 2664.7 | 2717.8 | 2712.6 |
| 7.5°  | 2318.2 | 2340.1 | 2328.6 | 2374.4 | 2428.5 | 2507.6 | 2554.4 | 2562.7 | 2667.8 | 2697.0 | 2718.8 |
| 10°   | 2218.3 | 2196.5 | 2248.5 | 2261.0 | 2322.4 | 2412.9 | 2469.1 | 2503.4 | 2599.2 | 2714.7 | 2728.2 |
| 12.5° | 2125.7 | 2118.4 | 2149.7 | 2185.0 | 2253.7 | 2347.4 | 2404.6 | 2418.1 | 2565.9 | 2687.6 | 2751.1 |
| 15°   | 2057.1 | 2048.7 | 2080.0 | 2106.0 | 2186.1 | 2269.3 | 2342.2 | 2380.7 | 2529.4 | 2672.0 | 2731.3 |
| 17.5° | 2003.0 | 2001.9 | 2019.6 | 2066.4 | 2148.6 | 2218.3 | 2335.9 | 2338.0 | 2510.7 | 2695.9 | 2747.9 |
| 20°   | 1999.8 | 1998.8 | 2001.9 | 2053.9 | 2128.9 | 2214.2 | 2316.1 | 2334.9 | 2510.7 | 2679.3 | 2749.0 |
| 22.5° | 2025.8 | 2009.2 | 2027.9 | 2061.2 | 2115.3 | 2221.5 | 2323.4 | 2365.0 | 2571.1 | 2761.5 | 2795.8 |
| 25°   | 2067.5 | 2071.6 | 2082.0 | 2093.5 | 2124.7 | 2238.1 | 2387.9 | 2422.3 | 2641.8 | 2832.2 | 2860.3 |
| 27.5° | 2143.4 | 2141.3 | 2145.5 | 2151.7 | 2178.8 | 2253.7 | 2414.0 | 2502.4 | 2789.6 | 2958.1 | 2930.0 |
| 30°   | 2254.8 | 2247.5 | 2264.1 | 2286.0 | 2261.0 | 2303.7 | 2500.3 | 2566.9 | 2926.9 | 3085.1 | 3008.1 |
| 32.5° | 2355.7 | 2382.7 | 2414.0 | 2423.3 | 2393.1 | 2401.5 | 2614.8 | 2682.4 | 3041.4 | 3241.1 | 3103.8 |
| 35°   | 2481.6 | 2503.4 | 2545.1 | 2574.2 | 2569.0 | 2544.0 | 2770.8 | 2860.3 | 3206.8 | 3355.6 | 3204.7 |
| 37.5° | 2604.4 | 2630.4 | 2699.0 | 2785.4 | 2737.5 | 2726.1 | 2937.3 | 3011.2 | 3257.8 | 3417.0 | 3278.6 |
| 40°   | 2802.1 | 2801.0 | 2919.6 | 2964.4 | 3007.0 | 2987.3 | 3110.0 | 3135.0 | 3284.8 | 3403.5 | 3280.7 |
| 42.5° | 3034.1 | 3019.5 | 3140.2 | 3209.9 | 3265.1 | 3267.2 | 3290.0 | 3281.7 | 3297.3 | 3334.8 | 3258.8 |
| 45°   | 3254.7 | 3285.9 | 3407.6 | 3532.5 | 3587.6 | 3593.9 | 3442.0 | 3426.4 | 3319.2 | 3315.0 | 3217.2 |
| 47.5° | 3524.2 | 3531.4 | 3631.3 | 3795.7 | 3923.7 | 3880.0 | 3638.6 | 3604.3 | 3414.9 | 3447.2 | 3286.9 |
| 50°   | 3539.8 | 3593.9 | 3683.4 | 3876.9 | 4270.2 | 4258.7 | 3893.5 | 3829.0 | 3568.9 | 3634.5 | 3481.5 |
| 52.5° | 3213.1 | 3200.6 | 3306.7 | 3623.0 | 4244.2 | 4635.4 | 4316.0 | 4162.0 | 3899.8 | 3849.8 | 3796.8 |
| 55°   | 2448.3 | 2477.4 | 2571.1 | 2890.5 | 3685.4 | 4640.6 | 4891.4 | 4765.5 | 4253.5 | 4168.2 | 4106.8 |
| 56°   | 2147.6 | 2151.7 | 2240.2 | 2531.5 | 3362.9 | 4475.2 | 5000.6 | 4898.7 | 4429.4 | 4299.3 | 4205.7 |
| 57.5° | 1780.3 | 1756.4 | 1802.1 | 1961.3 | 2838.5 | 4125.6 | 4881.0 | 4980.9 | 4635.4 | 4440.8 | 4310.8 |
| 60°   | 1401.5 | 1396.3 | 1377.6 | 1406.8 | 1793.8 | 3108.0 | 4063.1 | 4287.9 | 4614.6 | 4307.7 | 4128.7 |
| 62.5° | 1144.5 | 1118.5 | 1156.0 | 1197.6 | 1246.5 | 1928.0 | 2855.1 | 2987.3 | 3663.6 | 3438.8 | 3101.7 |
| 65°   | 887.5  | 875.1  | 921.9  | 1057.1 | 1086.3 | 1224.7 | 1626.3 | 1728.3 | 2163.2 | 2124.7 | 1870.8 |
| 67.5° | 610.8  | 612.9  | 653.4  | 859.4  | 1007.2 | 994.7  | 995.8  | 1048.8 | 1128.9 | 838.6  | 730.4  |
| 70°   | 387.1  | 386.0  | 407.9  | 553.5  | 810.5  | 818.9  | 777.3  | 761.6  | 722.1  | 437.0  | 463.0  |
| 72.5° | 248.7  | 241.4  | 252.8  | 305.9  | 419.3  | 484.9  | 499.4  | 508.8  | 418.3  | 343.4  | 372.5  |
| 75°   | 140.5  | 133.2  | 129.0  | 142.5  | 165.4  | 191.5  | 210.2  | 216.4  | 242.4  | 260.1  | 275.7  |
| 77.5° | 42.7   | 38.5   | 46.8   | 62.4   | 82.2   | 110.3  | 134.2  | 138.4  | 163.4  | 184.2  | 199.8  |
| 80°   | 18.7   | 20.8   | 29.1   | 41.6   | 58.3   | 78.0   | 94.7   | 100.9  | 117.6  | 133.2  | 137.3  |
| 82.5° | 11.4   | 12.5   | 19.8   | 28.1   | 40.6   | 55.1   | 67.6   | 69.7   | 86.4   | 98.8   | 102.0  |
| 85°   | 4.2    | 5.2    | 10.4   | 16.6   | 26.0   | 35.4   | 35.4   | 38.5   | 35.4   | 35.4   | 38.5   |
| 87.5° | 0.0    | 0.0    | 1.0    | 2.1    | 2.1    | 3.1    | 4.2    | 4.2    | 5.2    | 6.2    | 7.3    |
| 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°    | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 | 2683.4 |
| 2.5°  | 2690.7 | 2685.5 | 2677.2 | 2647.0 | 2643.9 | 2634.5 | 2582.5 | 2574.2 | 2582.5 | 2557.5 | 2559.6 |
| 5°    | 2685.5 | 2701.1 | 2638.7 | 2608.5 | 2552.3 | 2511.8 | 2464.9 | 2441.0 | 2398.3 | 2371.3 | 2401.5 |
| 7.5°  | 2708.4 | 2702.2 | 2624.1 | 2558.6 | 2474.3 | 2371.3 | 2289.1 | 2242.3 | 2167.4 | 2146.5 | 2162.2 |
| 10°   | 2700.1 | 2666.8 | 2575.2 | 2488.9 | 2329.7 | 2239.1 | 2106.0 | 1976.9 | 1906.2 | 1869.8 | 1864.6 |
| 12.5° | 2688.6 | 2679.3 | 2526.3 | 2377.5 | 2210.0 | 2019.6 | 1832.3 | 1710.6 | 1595.1 | 1545.1 | 1552.4 |
| 15°   | 2702.2 | 2623.1 | 2434.8 | 2246.4 | 2023.8 | 1774.0 | 1572.2 | 1415.1 | 1335.0 | 1302.7 | 1302.7 |
| 17.5° | 2695.9 | 2596.0 | 2391.1 | 2099.7 | 1817.7 | 1522.2 | 1300.6 | 1205.9 | 1172.6 | 1172.6 | 1182.0 |
| 20°   | 2699.0 | 2613.7 | 2302.6 | 1953.0 | 1574.3 | 1281.9 | 1120.6 | 1086.3 | 1100.8 | 1106.0 | 1111.2 |
| 22.5° | 2716.7 | 2555.5 | 2216.3 | 1791.7 | 1348.5 | 1096.7 | 1017.6 | 1018.6 | 1044.7 | 1072.8 | 1067.5 |
| 25°   | 2738.6 | 2532.6 | 2111.2 | 1631.5 | 1175.8 | 1006.2 | 981.2  | 978.1  | 997.8  | 1012.4 | 1014.5 |
| 27.5° | 2719.9 | 2493.0 | 2004.0 | 1431.7 | 1034.3 | 945.8  | 940.6  | 942.7  | 948.9  | 978.1  | 968.7  |
| 30°   | 2781.2 | 2504.5 | 1869.8 | 1264.2 | 956.2  | 926.0  | 919.8  | 916.7  | 926.0  | 934.4  | 927.1  |
| 32.5° | 2857.2 | 2463.9 | 1769.9 | 1102.9 | 917.7  | 911.5  | 899.0  | 894.8  | 900.0  | 891.7  | 895.9  |
| 35°   | 2890.5 | 2456.6 | 1639.8 | 987.4  | 887.5  | 882.3  | 875.1  | 874.0  | 875.1  | 867.8  | 861.5  |
| 37.5° | 2909.2 | 2490.9 | 1491.0 | 934.4  | 868.8  | 874.0  | 857.4  | 855.3  | 836.6  | 840.7  | 843.8  |
| 40°   | 2941.5 | 2437.9 | 1370.3 | 883.4  | 857.4  | 847.0  | 832.4  | 829.3  | 816.8  | 809.5  | 816.8  |
| 42.5° | 2894.7 | 2422.3 | 1251.7 | 861.5  | 840.7  | 829.3  | 818.9  | 801.2  | 797.0  | 790.8  | 786.6  |
| 45°   | 2857.2 | 2332.8 | 1145.6 | 834.5  | 821.0  | 814.7  | 794.9  | 776.2  | 760.6  | 766.8  | 757.5  |
| 47.5° | 2885.3 | 2301.6 | 1040.5 | 811.6  | 793.9  | 786.6  | 766.8  | 752.3  | 736.7  | 729.4  | 727.3  |
| 50°   | 2997.7 | 2359.8 | 952.1  | 794.9  | 771.0  | 766.8  | 740.8  | 724.2  | 709.6  | 704.4  | 706.5  |
| 52.5° | 3266.1 | 2519.0 | 891.7  | 760.6  | 749.2  | 730.4  | 715.9  | 695.1  | 685.7  | 669.0  | 679.4  |
| 55°   | 3606.4 | 2778.1 | 876.1  | 728.3  | 722.1  | 705.5  | 685.7  | 670.1  | 652.4  | 638.9  | 635.7  |
| 56°   | 3715.6 | 2901.9 | 863.6  | 715.9  | 705.5  | 696.1  | 670.1  | 660.7  | 632.6  | 629.5  | 627.4  |
| 57.5° | 3804.1 | 3011.2 | 865.7  | 691.9  | 681.5  | 673.2  | 657.6  | 634.7  | 616.0  | 604.5  | 609.7  |
| 60°   | 3604.3 | 2818.7 | 826.2  | 655.5  | 653.4  | 637.8  | 616.0  | 605.6  | 582.7  | 569.2  | 566.0  |
| 62.5° | 2679.3 | 1913.5 | 670.1  | 608.7  | 607.6  | 591.0  | 566.0  | 554.6  | 550.4  | 531.7  | 531.7  |
| 65°   | 1543.1 | 1199.7 | 579.6  | 570.2  | 561.9  | 545.2  | 520.2  | 510.9  | 500.5  | 494.2  | 489.0  |
| 67.5° | 658.6  | 622.2  | 526.5  | 525.5  | 516.1  | 495.3  | 470.3  | 455.7  | 442.2  | 429.7  | 436.0  |
| 70°   | 477.6  | 484.9  | 475.5  | 470.3  | 458.9  | 432.8  | 411.0  | 393.3  | 372.5  | 364.2  | 370.4  |
| 72.5° | 378.7  | 394.3  | 407.9  | 408.9  | 395.4  | 365.2  | 341.3  | 317.4  | 294.5  | 283.0  | 288.2  |
| 75°   | 287.2  | 297.6  | 311.1  | 314.2  | 294.5  | 273.7  | 250.8  | 225.8  | 208.1  | 194.6  | 196.7  |
| 77.5° | 207.1  | 205.0  | 217.5  | 215.4  | 206.0  | 191.5  | 170.6  | 147.8  | 128.0  | 115.5  | 116.5  |
| 80°   | 141.5  | 144.6  | 151.9  | 150.9  | 139.4  | 130.1  | 114.5  | 95.7   | 81.2   | 70.8   | 68.7   |
| 82.5° | 98.8   | 104.0  | 110.3  | 105.1  | 95.7   | 86.4   | 74.9   | 61.4   | 49.9   | 41.6   | 39.5   |
| 85°   | 35.4   | 40.6   | 46.8   | 49.9   | 53.1   | 51.0   | 42.7   | 34.3   | 25.0   | 20.8   | 19.8   |
| 87.5° | 7.3    | 8.3    | 9.4    | 9.4    | 9.4    | 8.3    | 7.3    | 7.3    | 6.2    | 3.1    | 3.1    |
| 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)