

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: P648260

Luminaire Tested: **GALN-SA2B-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648260  
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-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 7594.3 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

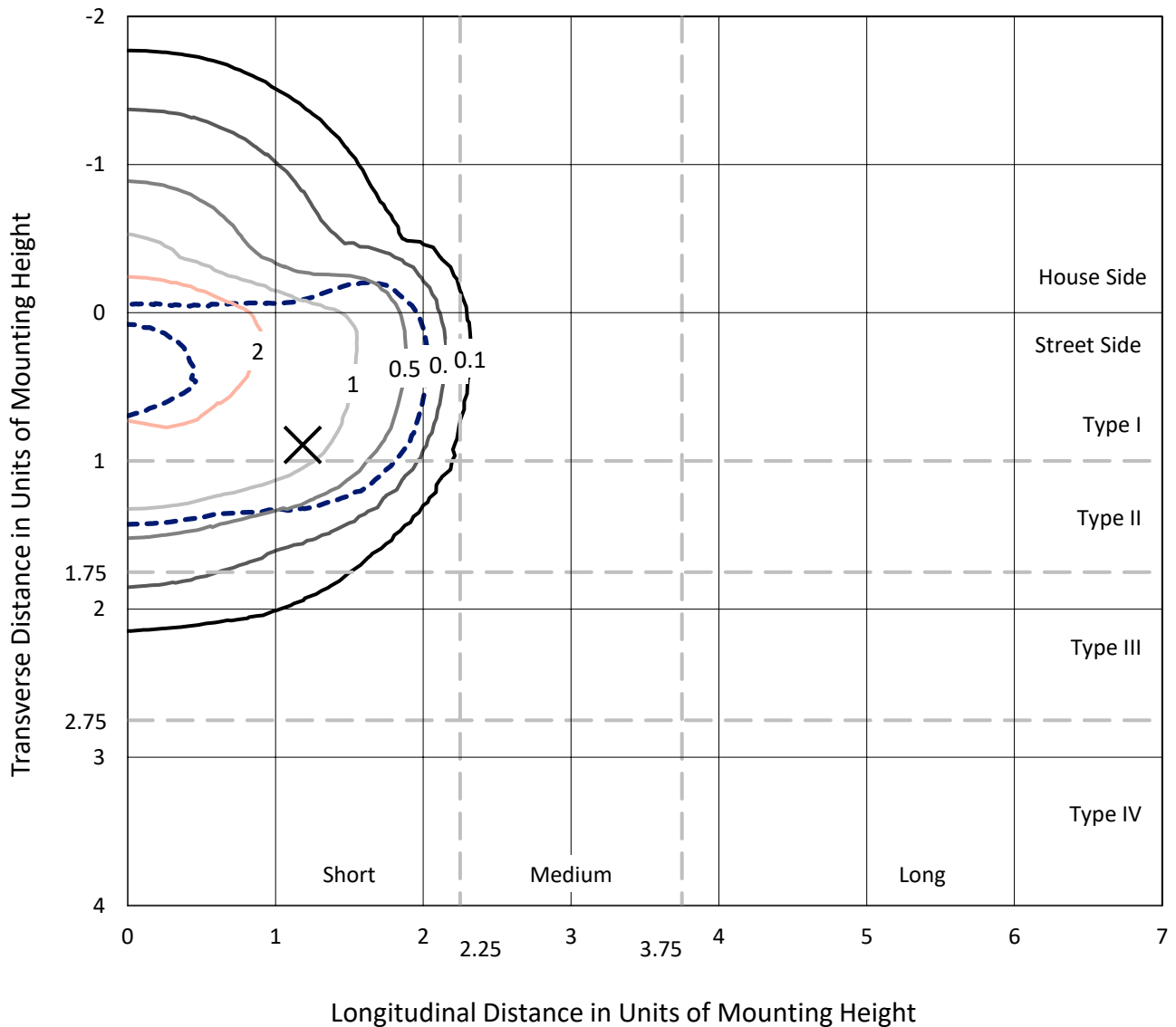
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

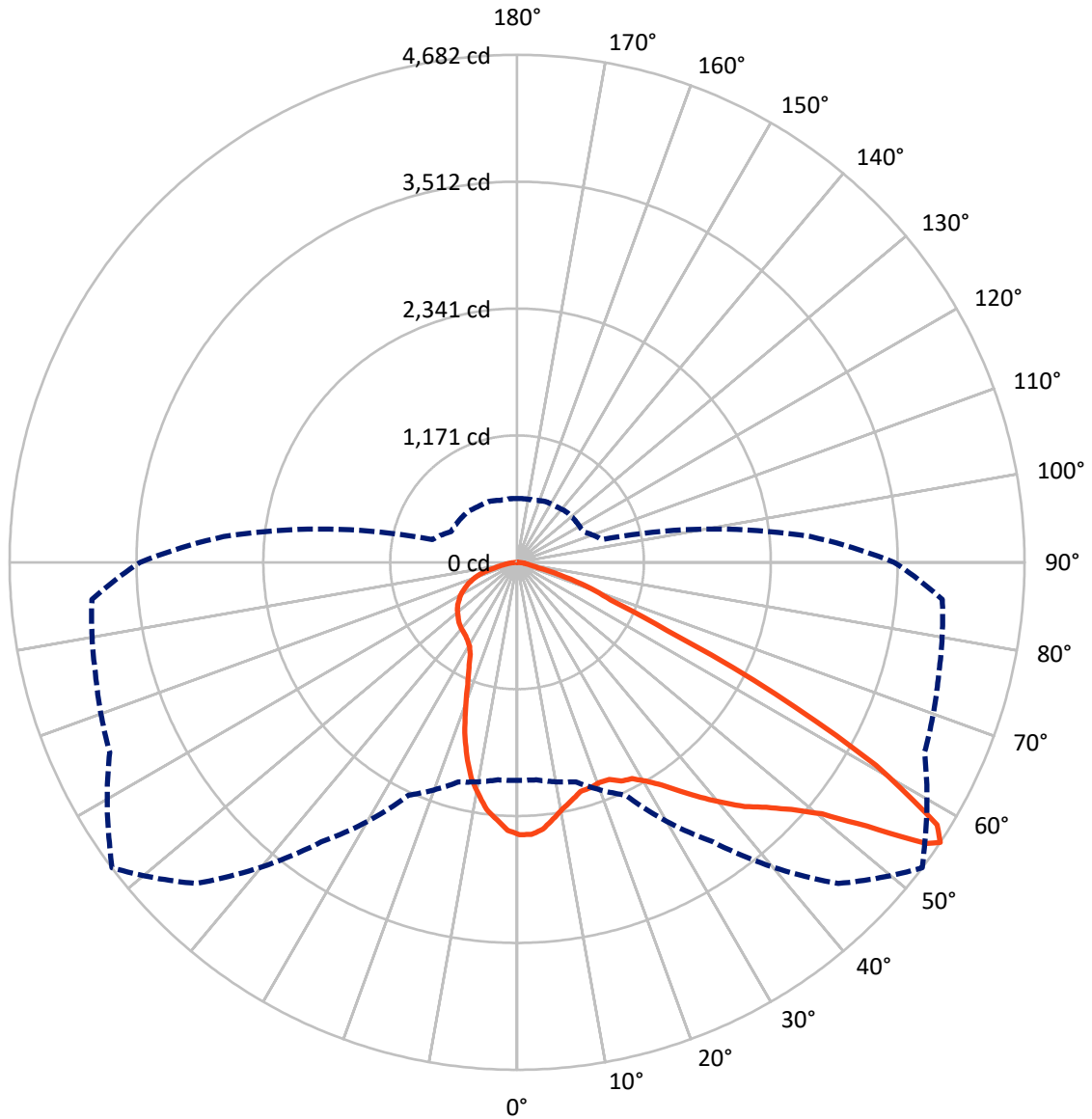
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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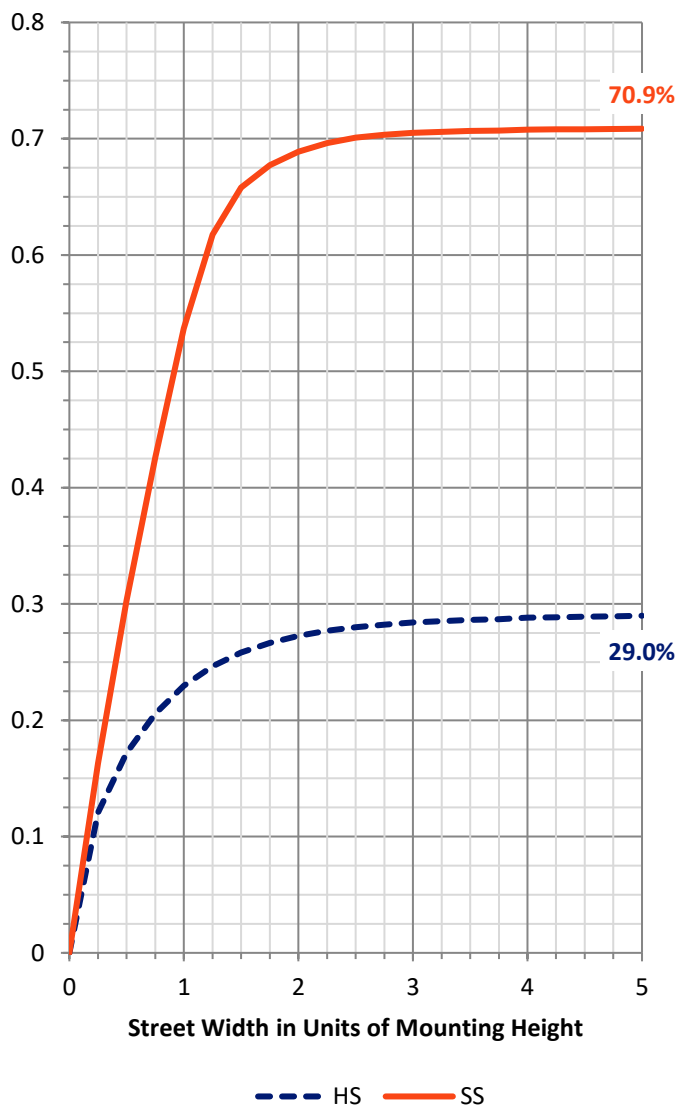
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2216.2   | 0.0    | 2216.2 |
|                    | % Fixture | 29.2     | 0.0    | 29.2   |
| <b>Street Side</b> | Lumens    | 5378.1   | 0.0    | 5378.1 |
|                    | % Fixture | 70.8     | 0.0    | 70.8   |
| <b>Total</b>       | Lumens    | 7594.3   | 0.0    | 7594.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 222.4  | 2.9       |
| 10°-20°   | 555.5  | 7.3       |
| 20°-30°   | 819.2  | 10.8      |
| 30°-40°   | 1170.4 | 15.4      |
| 40°-50°   | 1611.0 | 21.2      |
| 50°-60°   | 1903.7 | 25.1      |
| 60°-70°   | 1014.6 | 13.4      |
| 70°-80°   | 257.4  | 3.4       |
| 80°-90°   | 40.1   | 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°    | 7594.3 | 100.0     |
| 0°-180°   | 7594.3 | 100.0     |

**Coefficient of Utilization**

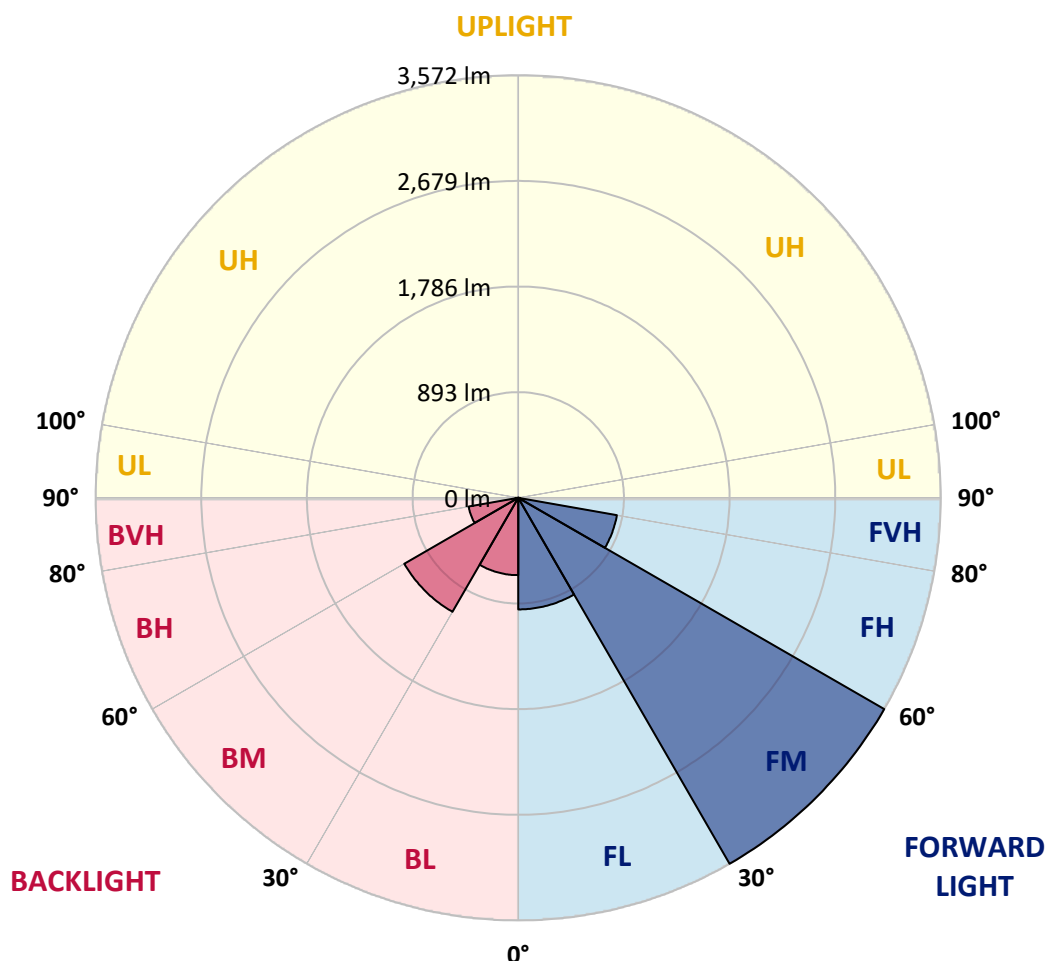


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 943.5  | 12.4      |                         |      |         |
| FM (30°-60°)   | 3572.2 | 47.0      |                         |      |         |
| FH (60°-80°)   | 846.3  | 11.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.1   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 653.6  | 8.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1112.9 | 14.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 425.7  | 5.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 24.0   | 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°    | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 |
| 2.5°  | 2481.3 | 2459.9 | 2472.6 | 2467.7 | 2507.6 | 2519.3 | 2513.5 | 2518.4 | 2540.8 | 2530.0 | 2507.6 |
| 5°    | 2318.6 | 2348.8 | 2354.6 | 2369.3 | 2392.7 | 2438.5 | 2474.5 | 2484.2 | 2495.0 | 2544.7 | 2539.7 |
| 7.5°  | 2170.6 | 2191.0 | 2180.3 | 2223.2 | 2273.8 | 2347.8 | 2391.7 | 2399.5 | 2497.8 | 2525.2 | 2545.6 |
| 10°   | 2077.1 | 2056.5 | 2105.3 | 2117.0 | 2174.5 | 2259.2 | 2311.8 | 2344.0 | 2433.6 | 2541.7 | 2554.4 |
| 12.5° | 1990.3 | 1983.5 | 2012.7 | 2045.8 | 2110.2 | 2197.8 | 2251.4 | 2264.0 | 2402.4 | 2516.4 | 2575.8 |
| 15°   | 1926.0 | 1918.2 | 1947.5 | 1971.8 | 2046.8 | 2124.7 | 2192.9 | 2229.0 | 2368.3 | 2501.8 | 2557.3 |
| 17.5° | 1875.4 | 1874.4 | 1890.9 | 1934.8 | 2011.8 | 2077.1 | 2187.1 | 2189.0 | 2350.8 | 2524.2 | 2572.9 |
| 20°   | 1872.5 | 1871.4 | 1874.4 | 1923.1 | 1993.2 | 2073.1 | 2168.6 | 2186.1 | 2350.8 | 2508.6 | 2573.9 |
| 22.5° | 1896.8 | 1881.2 | 1898.8 | 1929.9 | 1980.6 | 2080.0 | 2175.4 | 2214.4 | 2407.3 | 2585.5 | 2617.7 |
| 25°   | 1935.7 | 1939.6 | 1949.4 | 1960.1 | 1989.4 | 2095.5 | 2235.9 | 2268.0 | 2473.5 | 2651.8 | 2678.1 |
| 27.5° | 2006.9 | 2004.9 | 2008.9 | 2014.7 | 2040.0 | 2110.2 | 2260.2 | 2343.0 | 2611.9 | 2769.7 | 2743.4 |
| 30°   | 2111.1 | 2104.3 | 2119.9 | 2140.3 | 2117.0 | 2156.9 | 2341.0 | 2403.4 | 2740.5 | 2888.6 | 2816.5 |
| 32.5° | 2205.6 | 2230.9 | 2260.2 | 2269.0 | 2240.7 | 2248.5 | 2448.2 | 2511.6 | 2847.6 | 3034.7 | 2906.1 |
| 35°   | 2323.5 | 2344.0 | 2382.9 | 2410.2 | 2405.3 | 2382.0 | 2594.3 | 2678.1 | 3002.5 | 3141.9 | 3000.6 |
| 37.5° | 2438.5 | 2462.8 | 2527.1 | 2607.9 | 2563.2 | 2552.4 | 2750.2 | 2819.3 | 3050.3 | 3199.3 | 3069.8 |
| 40°   | 2623.6 | 2622.6 | 2733.6 | 2775.5 | 2815.5 | 2797.0 | 2911.9 | 2935.3 | 3075.6 | 3186.7 | 3071.7 |
| 42.5° | 2840.8 | 2827.2 | 2940.2 | 3005.5 | 3057.1 | 3059.0 | 3080.5 | 3072.6 | 3087.3 | 3122.4 | 3051.3 |
| 45°   | 3047.4 | 3076.6 | 3190.6 | 3307.5 | 3359.1 | 3364.9 | 3222.7 | 3208.1 | 3107.7 | 3103.8 | 3012.3 |
| 47.5° | 3299.6 | 3306.5 | 3400.0 | 3554.0 | 3673.8 | 3632.9 | 3406.8 | 3374.7 | 3197.4 | 3227.6 | 3077.6 |
| 50°   | 3314.3 | 3364.9 | 3448.7 | 3629.9 | 3998.2 | 3987.4 | 3645.5 | 3585.1 | 3341.5 | 3402.9 | 3259.7 |
| 52.5° | 3008.4 | 2996.7 | 3096.1 | 3392.2 | 3973.8 | 4340.1 | 4041.1 | 3896.8 | 3651.4 | 3604.6 | 3554.9 |
| 55°   | 2292.3 | 2319.6 | 2407.3 | 2706.4 | 3450.7 | 4345.0 | 4579.8 | 4461.9 | 3982.6 | 3902.7 | 3845.2 |
| 56°   | 2010.7 | 2014.7 | 2097.5 | 2370.3 | 3148.7 | 4190.1 | 4682.1 | 4586.6 | 4147.2 | 4025.5 | 3937.8 |
| 57.5° | 1666.9 | 1644.5 | 1687.4 | 1836.4 | 2657.7 | 3862.8 | 4570.1 | 4663.5 | 4340.1 | 4158.0 | 4036.2 |
| 60°   | 1312.2 | 1307.4 | 1289.8 | 1317.2 | 1679.5 | 2909.9 | 3804.3 | 4014.8 | 4320.7 | 4033.2 | 3865.7 |
| 62.5° | 1071.6 | 1047.3 | 1082.3 | 1121.3 | 1167.1 | 1805.2 | 2673.2 | 2797.0 | 3430.2 | 3219.8 | 2904.1 |
| 65°   | 831.0  | 819.3  | 863.2  | 989.8  | 1017.1 | 1146.6 | 1522.7 | 1618.1 | 2025.4 | 1989.4 | 1751.6 |
| 67.5° | 571.8  | 573.8  | 611.8  | 804.7  | 943.0  | 931.4  | 932.3  | 982.0  | 1057.0 | 785.2  | 683.9  |
| 70°   | 362.4  | 361.4  | 381.9  | 518.3  | 758.9  | 766.7  | 727.7  | 713.2  | 676.1  | 409.2  | 433.5  |
| 72.5° | 232.9  | 226.1  | 236.7  | 286.4  | 392.6  | 454.0  | 467.6  | 476.4  | 391.7  | 321.5  | 348.7  |
| 75°   | 131.5  | 124.7  | 120.8  | 133.5  | 154.9  | 179.2  | 196.8  | 202.6  | 227.0  | 243.6  | 258.2  |
| 77.5° | 39.9   | 36.0   | 43.8   | 58.5   | 77.0   | 103.3  | 125.7  | 129.6  | 152.9  | 172.4  | 187.1  |
| 80°   | 17.5   | 19.5   | 27.2   | 39.0   | 54.6   | 73.1   | 88.6   | 94.5   | 110.1  | 124.7  | 128.6  |
| 82.5° | 10.7   | 11.7   | 18.5   | 26.3   | 38.0   | 51.6   | 63.3   | 65.3   | 80.9   | 92.6   | 95.4   |
| 85°   | 3.9    | 4.9    | 9.7    | 15.6   | 24.4   | 33.1   | 33.1   | 36.0   | 33.1   | 33.1   | 36.0   |
| 87.5° | 0.0    | 0.0    | 0.9    | 2.0    | 2.0    | 2.9    | 3.9    | 3.9    | 4.9    | 5.9    | 6.8    |
| 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°    | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 | 2512.5 |
| 2.5°  | 2519.3 | 2514.4 | 2506.6 | 2478.4 | 2475.5 | 2466.7 | 2418.0 | 2410.2 | 2418.0 | 2394.6 | 2396.6 |
| 5°    | 2514.4 | 2529.1 | 2470.6 | 2442.3 | 2389.7 | 2351.7 | 2307.9 | 2285.5 | 2245.6 | 2220.2 | 2248.5 |
| 7.5°  | 2535.9 | 2530.0 | 2457.0 | 2395.6 | 2316.7 | 2220.2 | 2143.3 | 2099.5 | 2029.3 | 2009.8 | 2024.4 |
| 10°   | 2528.1 | 2496.9 | 2411.2 | 2330.3 | 2181.3 | 2096.5 | 1971.8 | 1851.0 | 1784.8 | 1750.6 | 1745.8 |
| 12.5° | 2517.3 | 2508.6 | 2365.4 | 2226.1 | 2069.2 | 1890.9 | 1715.6 | 1601.6 | 1493.5 | 1446.7 | 1453.6 |
| 15°   | 2530.0 | 2456.0 | 2279.6 | 2103.3 | 1894.9 | 1661.1 | 1472.0 | 1324.9 | 1249.9 | 1219.7 | 1219.7 |
| 17.5° | 2524.2 | 2430.7 | 2238.8 | 1966.0 | 1701.9 | 1425.3 | 1217.8 | 1129.1 | 1097.9 | 1097.9 | 1106.7 |
| 20°   | 2527.1 | 2447.2 | 2155.9 | 1828.6 | 1474.0 | 1200.3 | 1049.2 | 1017.1 | 1030.7 | 1035.6 | 1040.5 |
| 22.5° | 2543.7 | 2392.7 | 2075.1 | 1677.6 | 1262.6 | 1026.8 | 952.8  | 953.8  | 978.1  | 1004.4 | 999.6  |
| 25°   | 2564.2 | 2371.2 | 1976.7 | 1527.6 | 1100.9 | 942.0  | 918.7  | 915.8  | 934.3  | 947.9  | 949.9  |
| 27.5° | 2546.6 | 2334.2 | 1876.3 | 1340.5 | 968.3  | 885.6  | 880.7  | 882.7  | 888.5  | 915.8  | 907.0  |
| 30°   | 2604.1 | 2344.9 | 1750.6 | 1183.7 | 895.3  | 867.0  | 861.2  | 858.2  | 867.0  | 874.8  | 868.0  |
| 32.5° | 2675.2 | 2307.0 | 1657.1 | 1032.7 | 859.3  | 853.4  | 841.7  | 837.8  | 842.7  | 834.9  | 838.8  |
| 35°   | 2706.4 | 2300.1 | 1535.4 | 924.6  | 831.0  | 826.1  | 819.3  | 818.3  | 819.3  | 812.5  | 806.6  |
| 37.5° | 2723.9 | 2332.2 | 1396.0 | 874.8  | 813.5  | 818.3  | 802.7  | 800.8  | 783.2  | 787.1  | 790.1  |
| 40°   | 2754.1 | 2282.6 | 1283.0 | 827.1  | 802.7  | 793.0  | 779.4  | 776.4  | 764.8  | 757.9  | 764.8  |
| 42.5° | 2710.3 | 2268.0 | 1172.0 | 806.6  | 787.1  | 776.4  | 766.7  | 750.1  | 746.3  | 740.4  | 736.5  |
| 45°   | 2675.2 | 2184.2 | 1072.6 | 781.4  | 768.7  | 762.8  | 744.3  | 726.8  | 712.1  | 718.0  | 709.2  |
| 47.5° | 2701.5 | 2155.0 | 974.2  | 759.9  | 743.3  | 736.5  | 718.0  | 704.4  | 689.7  | 682.9  | 681.0  |
| 50°   | 2806.7 | 2209.5 | 891.4  | 744.3  | 721.9  | 718.0  | 693.7  | 678.1  | 664.4  | 659.5  | 661.5  |
| 52.5° | 3058.1 | 2358.6 | 834.9  | 712.1  | 701.4  | 683.9  | 670.2  | 650.8  | 642.0  | 626.4  | 636.2  |
| 55°   | 3376.6 | 2601.1 | 820.3  | 681.9  | 676.1  | 660.5  | 642.0  | 627.4  | 610.8  | 598.1  | 595.2  |
| 56°   | 3478.9 | 2717.1 | 808.6  | 670.2  | 660.5  | 651.8  | 627.4  | 618.6  | 592.3  | 589.4  | 587.5  |
| 57.5° | 3561.7 | 2819.3 | 810.6  | 647.9  | 638.1  | 630.3  | 615.7  | 594.3  | 576.8  | 566.0  | 570.9  |
| 60°   | 3374.7 | 2639.2 | 773.5  | 613.8  | 611.8  | 597.2  | 576.8  | 567.0  | 545.6  | 532.9  | 529.9  |
| 62.5° | 2508.6 | 1791.6 | 627.4  | 569.9  | 568.9  | 553.3  | 529.9  | 519.3  | 515.4  | 497.8  | 497.8  |
| 65°   | 1444.8 | 1123.3 | 542.6  | 533.8  | 526.1  | 510.5  | 487.1  | 478.3  | 468.6  | 462.8  | 457.9  |
| 67.5° | 616.7  | 582.6  | 493.0  | 492.0  | 483.2  | 463.7  | 440.4  | 426.7  | 414.1  | 402.4  | 408.2  |
| 70°   | 447.2  | 454.0  | 445.2  | 440.4  | 429.6  | 405.3  | 384.8  | 368.2  | 348.7  | 341.0  | 346.8  |
| 72.5° | 354.6  | 369.3  | 381.9  | 382.9  | 370.2  | 341.9  | 319.5  | 297.1  | 275.7  | 265.0  | 269.8  |
| 75°   | 268.9  | 278.6  | 291.3  | 294.3  | 275.7  | 256.2  | 234.8  | 211.4  | 194.8  | 182.2  | 184.2  |
| 77.5° | 193.9  | 191.9  | 203.6  | 201.7  | 192.9  | 179.2  | 159.8  | 138.4  | 119.8  | 108.1  | 109.2  |
| 80°   | 132.5  | 135.4  | 142.3  | 141.3  | 130.5  | 121.8  | 107.2  | 89.7   | 76.0   | 66.2   | 64.3   |
| 82.5° | 92.6   | 97.4   | 103.3  | 98.4   | 89.7   | 80.9   | 70.2   | 57.5   | 46.7   | 39.0   | 37.0   |
| 85°   | 33.1   | 38.0   | 43.8   | 46.7   | 49.7   | 47.8   | 39.9   | 32.2   | 23.4   | 19.5   | 18.5   |
| 87.5° | 6.8    | 7.8    | 8.8    | 8.8    | 8.8    | 7.8    | 6.8    | 6.8    | 5.9    | 2.9    | 2.9    |
| 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)