

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: P648342

Luminaire Tested: **GALN-SA3B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11340.2 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

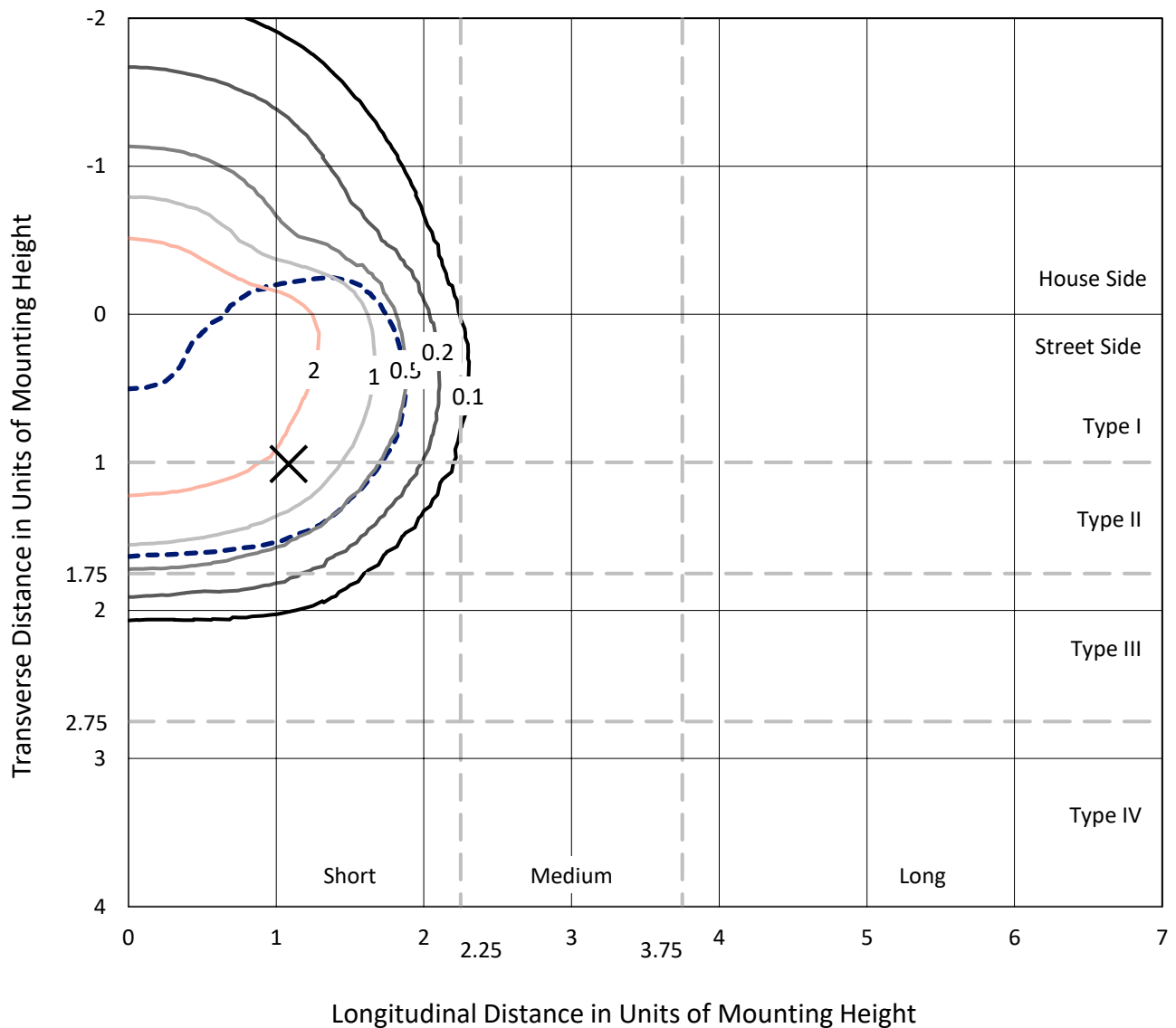
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

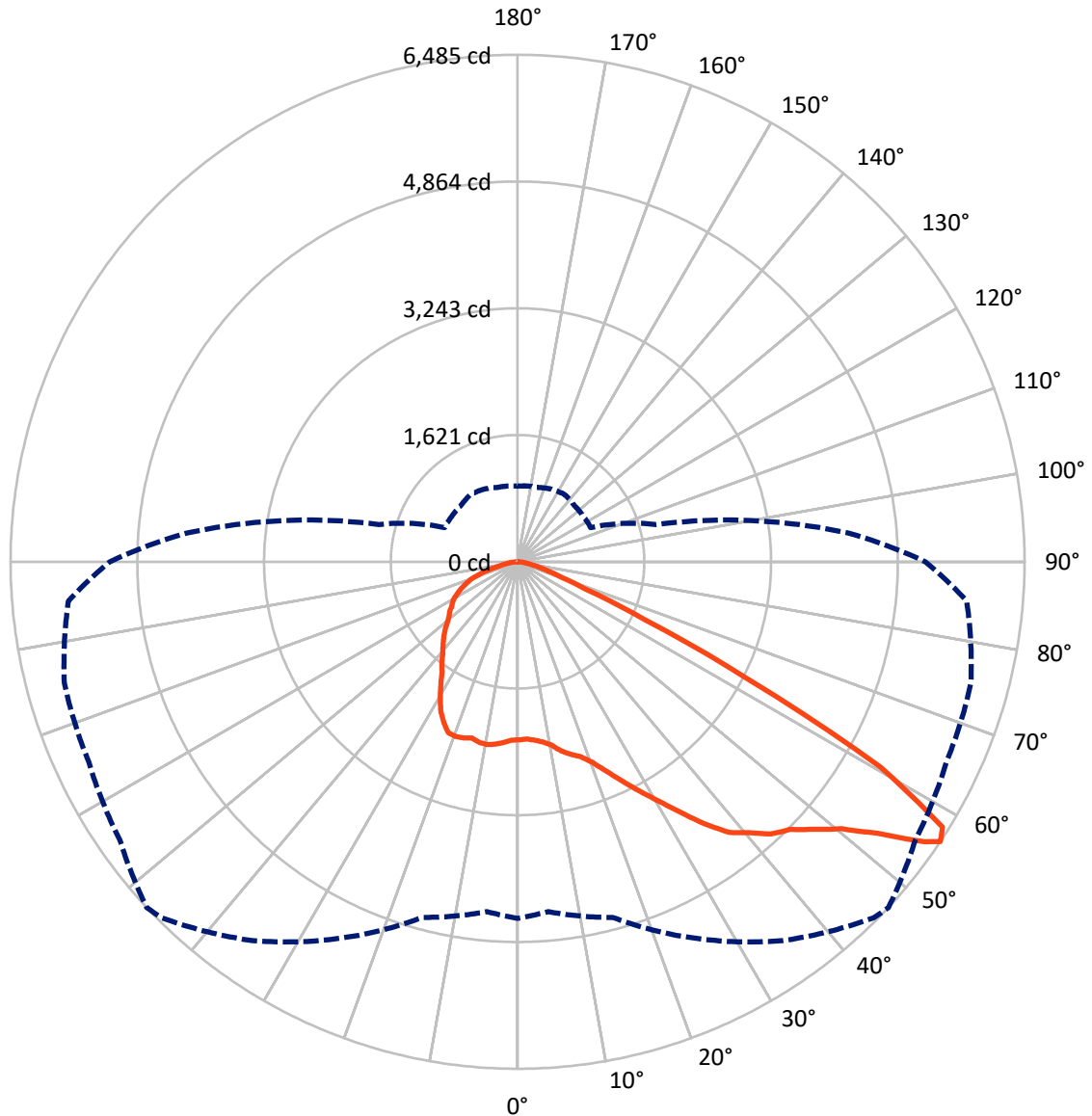
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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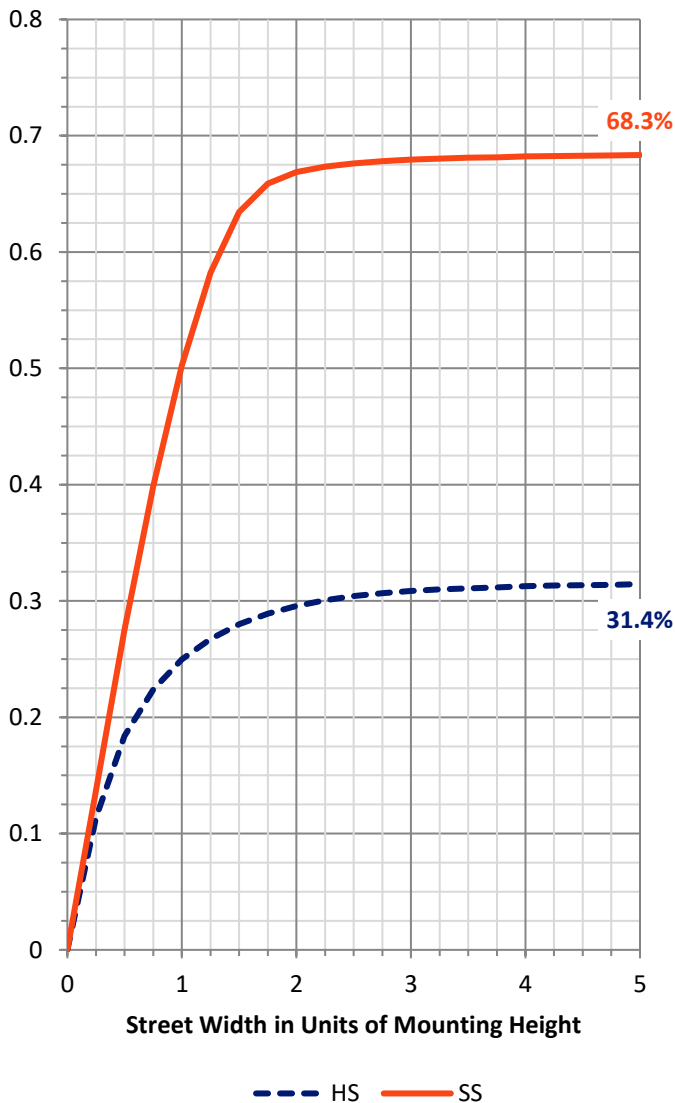
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3593.6   | 0.0    | 3593.6  |
|                    | % Fixture | 31.7     | 0.0    | 31.7    |
| <b>Street Side</b> | Lumens    | 7746.6   | 0.0    | 7746.6  |
|                    | % Fixture | 68.3     | 0.0    | 68.3    |
| <b>Total</b>       | Lumens    | 11340.2  | 0.0    | 11340.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 222.0   | 2.0       |
| 10°-20°   | 700.1   | 6.2       |
| 20°-30°   | 1237.7  | 10.9      |
| 30°-40°   | 1859.0  | 16.4      |
| 40°-50°   | 2551.2  | 22.5      |
| 50°-60°   | 3039.5  | 26.8      |
| 60°-70°   | 1300.7  | 11.5      |
| 70°-80°   | 368.1   | 3.2       |
| 80°-90°   | 61.9    | 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°    | 11340.2 | 100.0     |
| 0°-180°   | 11340.2 | 100.0     |

**Coefficient of Utilization**



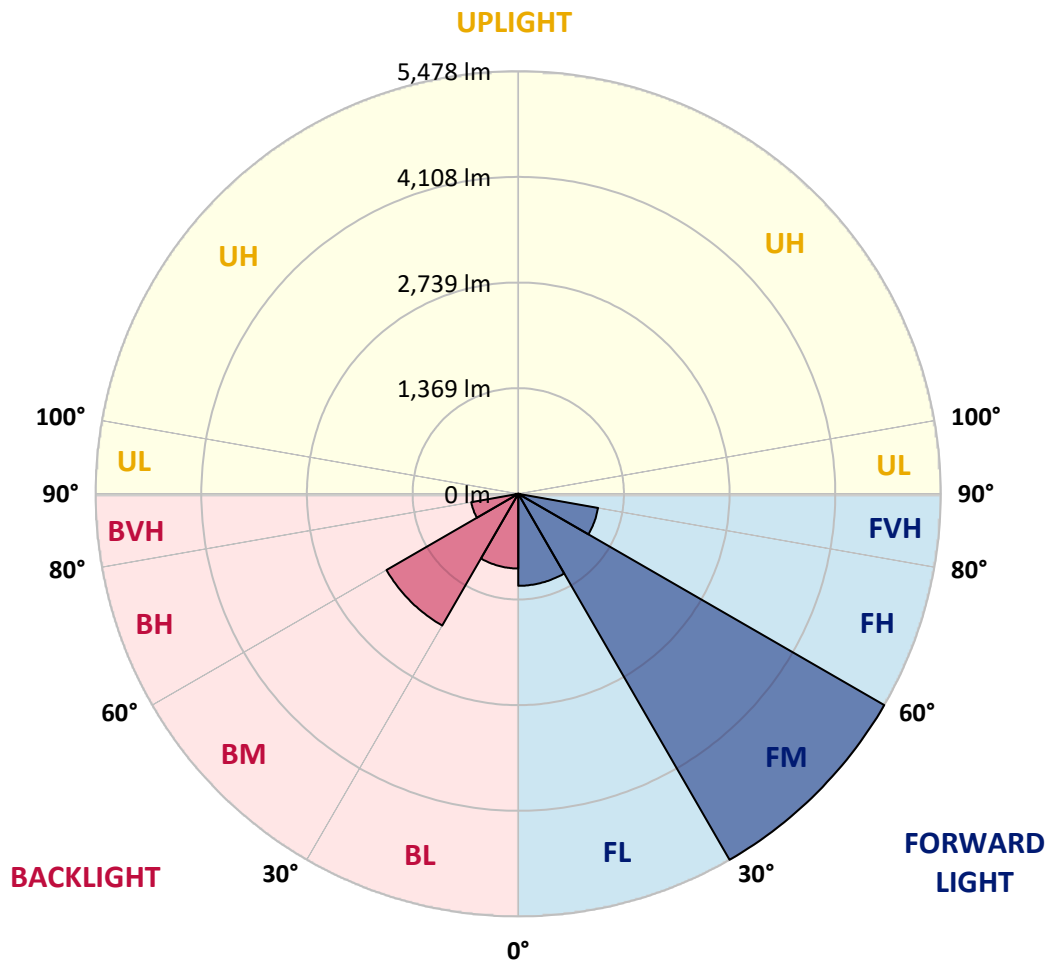
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1192.2 | 10.5      |                         |      |         |
| FM (30°-60°)   | 5477.6 | 48.3      |                         |      |         |
| FH (60°-80°)   | 1050.5 | 9.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 26.3   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 967.5  | 8.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1972.1 | 17.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 618.3  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 35.7   | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 |
| 2.5°  | 2269.2 | 2264.9 | 2262.0 | 2285.1 | 2276.4 | 2277.9 | 2269.2 | 2277.9 | 2283.7 | 2270.7 | 2289.5 |
| 5°    | 2264.9 | 2277.9 | 2266.3 | 2273.6 | 2292.4 | 2286.6 | 2292.4 | 2309.7 | 2305.4 | 2301.0 | 2295.3 |
| 7.5°  | 2305.4 | 2306.8 | 2315.5 | 2318.4 | 2324.2 | 2318.4 | 2327.1 | 2343.0 | 2338.7 | 2314.1 | 2317.0 |
| 10°   | 2363.3 | 2366.1 | 2367.6 | 2383.5 | 2393.6 | 2395.0 | 2384.9 | 2370.5 | 2369.0 | 2402.2 | 2379.1 |
| 12.5° | 2429.7 | 2422.5 | 2439.9 | 2445.7 | 2457.2 | 2470.3 | 2483.3 | 2452.9 | 2471.7 | 2473.2 | 2445.7 |
| 15°   | 2526.7 | 2533.9 | 2513.7 | 2513.7 | 2518.0 | 2519.5 | 2555.6 | 2541.1 | 2538.3 | 2522.4 | 2533.9 |
| 17.5° | 2671.3 | 2622.1 | 2620.7 | 2600.4 | 2597.5 | 2609.1 | 2622.1 | 2633.7 | 2672.8 | 2640.9 | 2578.7 |
| 20°   | 2776.8 | 2788.4 | 2746.5 | 2721.9 | 2726.2 | 2752.2 | 2739.2 | 2791.3 | 2818.8 | 2766.7 | 2706.0 |
| 22.5° | 2963.4 | 2924.4 | 2934.5 | 2879.6 | 2883.9 | 2911.4 | 2909.9 | 2963.4 | 2979.3 | 2896.9 | 2808.7 |
| 25°   | 3089.2 | 3079.1 | 3087.8 | 3044.5 | 3050.3 | 3071.9 | 3106.6 | 3194.9 | 3168.8 | 3077.7 | 2873.8 |
| 27.5° | 3272.9 | 3252.7 | 3245.5 | 3229.6 | 3223.8 | 3281.6 | 3322.1 | 3416.2 | 3397.4 | 3264.2 | 2989.5 |
| 30°   | 3460.9 | 3447.9 | 3455.1 | 3390.1 | 3413.3 | 3536.2 | 3547.8 | 3676.4 | 3667.8 | 3433.5 | 3118.2 |
| 32.5° | 3591.2 | 3598.4 | 3611.4 | 3575.3 | 3677.9 | 3776.3 | 3815.3 | 3961.4 | 3968.6 | 3724.2 | 3367.0 |
| 35°   | 3800.8 | 3776.3 | 3783.5 | 3825.4 | 3873.2 | 4052.5 | 4116.2 | 4213.0 | 4273.8 | 4029.3 | 3605.6 |
| 37.5° | 3932.5 | 3958.5 | 3928.1 | 3994.6 | 4119.0 | 4334.5 | 4392.4 | 4492.1 | 4555.8 | 4330.1 | 3931.0 |
| 40°   | 4137.8 | 4095.9 | 4117.6 | 4165.3 | 4292.6 | 4573.2 | 4557.2 | 4659.9 | 4680.1 | 4586.2 | 4234.7 |
| 42.5° | 4359.1 | 4338.8 | 4308.5 | 4417.0 | 4524.0 | 4727.9 | 4759.7 | 4712.0 | 4814.7 | 4836.4 | 4668.6 |
| 45°   | 4623.8 | 4648.4 | 4652.7 | 4655.6 | 4749.6 | 4927.5 | 4884.1 | 4842.2 | 4960.8 | 5118.4 | 4937.6 |
| 47.5° | 4869.6 | 4791.6 | 4847.9 | 4926.0 | 5059.1 | 5060.5 | 5111.2 | 5011.4 | 5137.2 | 5277.5 | 5180.6 |
| 50°   | 4952.1 | 4914.5 | 4989.7 | 5137.2 | 5342.6 | 5364.3 | 5370.0 | 5228.3 | 5293.4 | 5404.7 | 5264.5 |
| 52.5° | 4920.3 | 4907.2 | 5099.6 | 5328.1 | 5628.9 | 5738.8 | 5767.8 | 5592.8 | 5628.9 | 5578.3 | 5449.6 |
| 55°   | 4768.4 | 4807.5 | 5001.3 | 5467.0 | 5928.3 | 6268.2 | 6323.2 | 6101.8 | 5872.0 | 5910.9 | 5769.2 |
| 56°   | 4560.1 | 4492.1 | 4709.1 | 5309.3 | 5915.3 | 6440.3 | 6485.1 | 6208.9 | 6052.7 | 6002.1 | 5766.3 |
| 57.5° | 3868.8 | 3780.6 | 4065.5 | 4777.1 | 5587.0 | 6375.3 | 6408.5 | 6253.7 | 6022.4 | 5919.6 | 5345.5 |
| 60°   | 2264.9 | 2308.3 | 2669.9 | 3294.6 | 4309.9 | 5226.8 | 5338.3 | 5451.0 | 5296.3 | 4836.4 | 3978.7 |
| 62.5° | 1093.4 | 1065.9 | 1324.8 | 1888.8 | 2626.4 | 3336.6 | 3303.3 | 3620.0 | 3793.6 | 3436.4 | 2512.2 |
| 65°   | 572.8  | 569.9  | 723.2  | 1031.2 | 1443.4 | 1752.9 | 1783.3 | 1953.9 | 2192.6 | 1770.3 | 1275.6 |
| 67.5° | 420.9  | 432.5  | 509.1  | 724.6  | 928.5  | 947.4  | 943.0  | 1028.3 | 1051.4 | 889.5  | 783.9  |
| 70°   | 329.7  | 335.5  | 392.0  | 551.0  | 691.3  | 619.0  | 606.0  | 616.1  | 684.1  | 713.0  | 678.3  |
| 72.5° | 238.7  | 244.5  | 292.1  | 371.7  | 432.5  | 422.4  | 431.0  | 487.4  | 571.3  | 601.7  | 565.5  |
| 75°   | 159.1  | 163.4  | 189.5  | 227.1  | 256.0  | 276.2  | 292.1  | 357.2  | 435.3  | 452.7  | 435.3  |
| 77.5° | 109.9  | 114.2  | 131.6  | 160.5  | 163.4  | 176.4  | 182.2  | 212.6  | 260.3  | 282.0  | 270.4  |
| 80°   | 62.2   | 62.2   | 70.9   | 82.4   | 101.2  | 118.6  | 121.5  | 146.1  | 167.8  | 182.2  | 185.1  |
| 82.5° | 28.9   | 30.4   | 37.6   | 50.6   | 66.6   | 82.4   | 85.3   | 101.2  | 117.1  | 131.6  | 135.9  |
| 85°   | 14.5   | 15.9   | 21.7   | 30.4   | 40.5   | 49.2   | 47.8   | 49.2   | 52.1   | 49.2   | 50.6   |
| 87.5° | 4.3    | 4.3    | 5.8    | 7.2    | 5.8    | 7.2    | 7.2    | 8.7    | 10.1   | 11.6   | 13.0   |
| 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°    | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 | 2277.9 |
| 2.5°  | 2290.9 | 2295.3 | 2266.3 | 2293.8 | 2283.7 | 2282.2 | 2302.5 | 2299.6 | 2306.8 | 2303.9 | 2286.6 |
| 5°    | 2292.4 | 2282.2 | 2312.6 | 2285.1 | 2298.2 | 2325.6 | 2306.8 | 2350.3 | 2328.5 | 2343.0 | 2311.2 |
| 7.5°  | 2337.2 | 2340.1 | 2334.3 | 2345.9 | 2340.1 | 2353.1 | 2343.0 | 2353.1 | 2335.8 | 2337.2 | 2366.1 |
| 10°   | 2376.2 | 2367.6 | 2377.7 | 2363.3 | 2373.4 | 2369.0 | 2345.9 | 2338.7 | 2344.5 | 2337.2 | 2356.0 |
| 12.5° | 2448.6 | 2432.6 | 2425.4 | 2408.0 | 2396.5 | 2353.1 | 2317.0 | 2296.7 | 2324.2 | 2328.5 | 2319.9 |
| 15°   | 2522.4 | 2523.8 | 2490.5 | 2451.4 | 2379.1 | 2314.1 | 2322.8 | 2330.0 | 2330.0 | 2341.6 | 2319.9 |
| 17.5° | 2568.6 | 2568.6 | 2538.3 | 2460.1 | 2386.3 | 2348.8 | 2340.1 | 2317.0 | 2296.7 | 2293.8 | 2292.4 |
| 20°   | 2649.6 | 2625.0 | 2555.6 | 2458.7 | 2383.5 | 2366.1 | 2301.0 | 2246.1 | 2204.1 | 2189.7 | 2188.3 |
| 22.5° | 2742.1 | 2680.0 | 2583.0 | 2461.6 | 2379.1 | 2354.6 | 2233.0 | 2150.6 | 2075.4 | 2043.6 | 2047.9 |
| 25°   | 2827.5 | 2727.7 | 2599.0 | 2448.6 | 2363.3 | 2244.6 | 2108.7 | 1994.5 | 1916.3 | 1890.3 | 1877.2 |
| 27.5° | 2886.8 | 2778.3 | 2599.0 | 2460.1 | 2303.9 | 2121.7 | 1982.9 | 1836.8 | 1768.8 | 1751.4 | 1754.3 |
| 30°   | 2966.3 | 2842.0 | 2643.8 | 2435.5 | 2185.4 | 1962.6 | 1796.3 | 1700.8 | 1660.4 | 1645.9 | 1656.0 |
| 32.5° | 3152.9 | 3008.3 | 2706.0 | 2376.2 | 2045.0 | 1803.5 | 1669.0 | 1615.5 | 1556.2 | 1527.2 | 1517.1 |
| 35°   | 3355.4 | 3165.9 | 2766.7 | 2276.4 | 1887.4 | 1658.9 | 1575.0 | 1525.8 | 1455.0 | 1423.2 | 1428.9 |
| 37.5° | 3641.7 | 3368.4 | 2771.1 | 2111.6 | 1716.7 | 1577.9 | 1501.2 | 1424.6 | 1366.7 | 1317.6 | 1303.1 |
| 40°   | 4027.9 | 3644.6 | 2760.9 | 1938.0 | 1579.3 | 1482.5 | 1426.0 | 1330.6 | 1265.5 | 1230.8 | 1238.0 |
| 42.5° | 4367.8 | 3968.6 | 2719.0 | 1741.3 | 1455.0 | 1417.4 | 1353.7 | 1259.7 | 1196.1 | 1159.9 | 1157.0 |
| 45°   | 4654.2 | 4207.2 | 2639.5 | 1573.6 | 1350.8 | 1345.0 | 1271.3 | 1199.0 | 1148.3 | 1115.1 | 1129.6 |
| 47.5° | 4918.8 | 4399.6 | 2519.5 | 1405.8 | 1255.4 | 1267.0 | 1196.1 | 1151.2 | 1119.5 | 1089.1 | 1087.6 |
| 50°   | 5014.3 | 4396.7 | 2413.8 | 1267.0 | 1178.7 | 1172.9 | 1170.0 | 1122.4 | 1089.1 | 1063.0 | 1074.6 |
| 52.5° | 5173.4 | 4445.9 | 2299.6 | 1171.5 | 1109.3 | 1110.8 | 1120.9 | 1086.2 | 1048.6 | 1032.6 | 1047.1 |
| 55°   | 5401.8 | 4453.1 | 2047.9 | 1060.1 | 1051.4 | 1061.6 | 1061.6 | 1038.4 | 1006.6 | 993.6  | 986.3  |
| 56°   | 5215.3 | 4237.6 | 1836.8 | 1031.2 | 1022.5 | 1022.5 | 1050.0 | 1024.0 | 984.9  | 974.8  | 966.1  |
| 57.5° | 4810.4 | 3712.6 | 1537.4 | 996.5  | 983.4  | 1003.7 | 1018.2 | 990.7  | 954.6  | 940.1  | 948.8  |
| 60°   | 3317.8 | 2512.2 | 1155.6 | 921.3  | 921.3  | 954.6  | 966.1  | 925.6  | 909.7  | 908.3  | 896.7  |
| 62.5° | 1936.6 | 1463.7 | 903.9  | 853.3  | 856.2  | 883.7  | 892.4  | 869.2  | 849.0  | 873.6  | 885.1  |
| 65°   | 1026.8 | 873.6  | 775.2  | 781.0  | 782.5  | 804.1  | 841.7  | 840.3  | 838.8  | 846.1  | 847.5  |
| 67.5° | 743.4  | 726.0  | 704.3  | 698.6  | 701.4  | 717.4  | 755.0  | 783.9  | 782.5  | 765.1  | 752.1  |
| 70°   | 662.4  | 637.8  | 624.8  | 626.2  | 614.7  | 633.4  | 663.8  | 682.6  | 649.4  | 629.1  | 620.4  |
| 72.5° | 551.0  | 543.8  | 535.1  | 536.6  | 513.4  | 509.1  | 474.4  | 474.4  | 465.7  | 459.9  | 470.0  |
| 75°   | 420.9  | 418.0  | 422.4  | 415.1  | 390.5  | 364.5  | 344.2  | 325.4  | 296.5  | 284.9  | 279.1  |
| 77.5° | 266.1  | 274.8  | 284.9  | 269.0  | 258.9  | 240.1  | 219.9  | 201.0  | 177.9  | 164.9  | 164.9  |
| 80°   | 180.8  | 188.0  | 195.3  | 192.4  | 180.8  | 163.4  | 147.5  | 127.2  | 111.3  | 101.2  | 99.8   |
| 82.5° | 137.4  | 143.2  | 153.3  | 141.7  | 130.1  | 115.7  | 102.7  | 88.2   | 73.8   | 62.2   | 62.2   |
| 85°   | 49.2   | 56.4   | 62.2   | 68.0   | 72.3   | 73.8   | 63.7   | 52.1   | 42.0   | 33.3   | 31.8   |
| 87.5° | 13.0   | 14.5   | 15.9   | 14.5   | 14.5   | 14.5   | 15.9   | 14.5   | 13.0   | 10.1   | 10.1   |
| 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)