

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635527

Luminaire Tested: GWS-SA3D-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-830-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

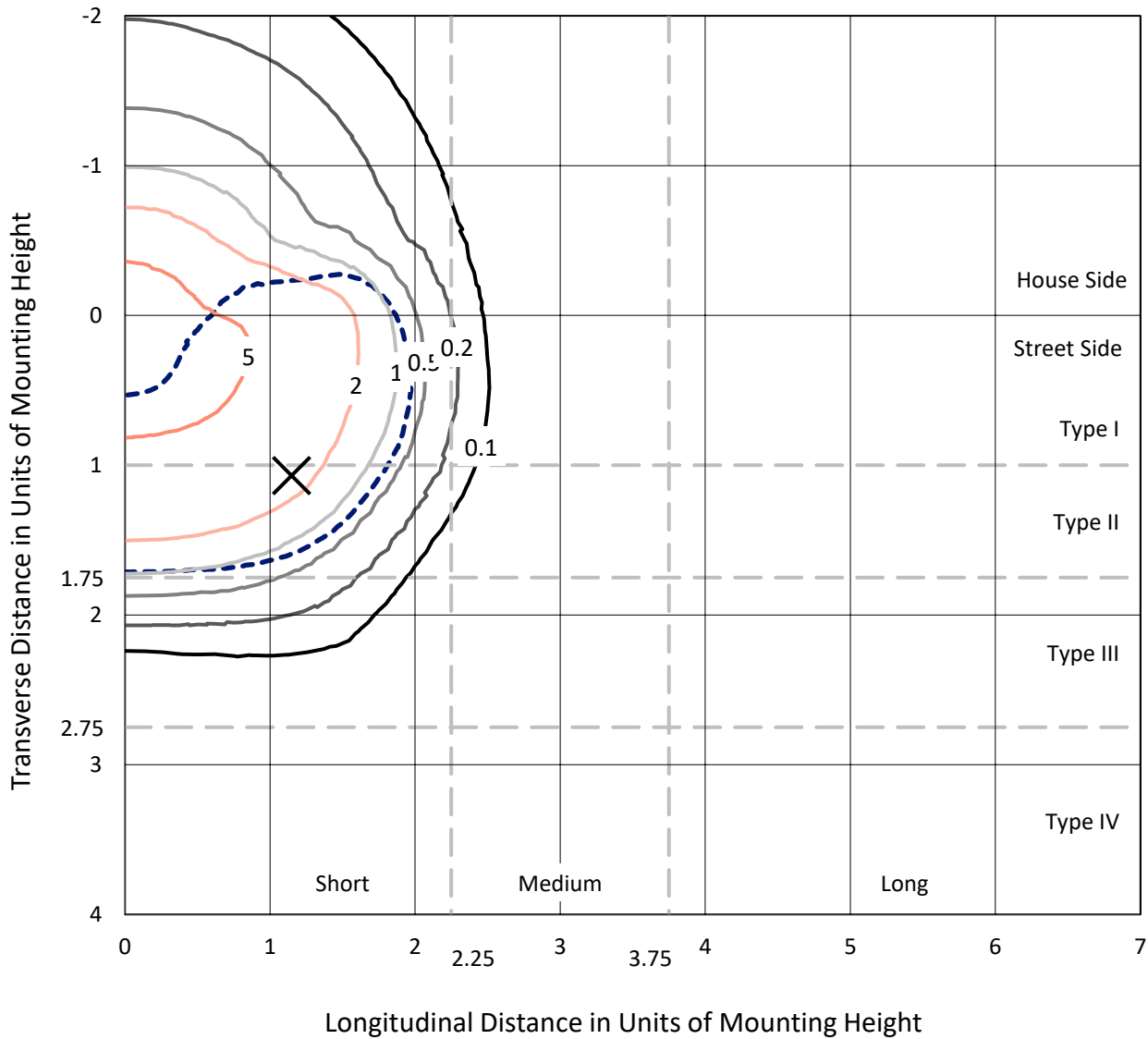
Lumens per Lamp: N/A  
Luminaire Lumens: 11931.8 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

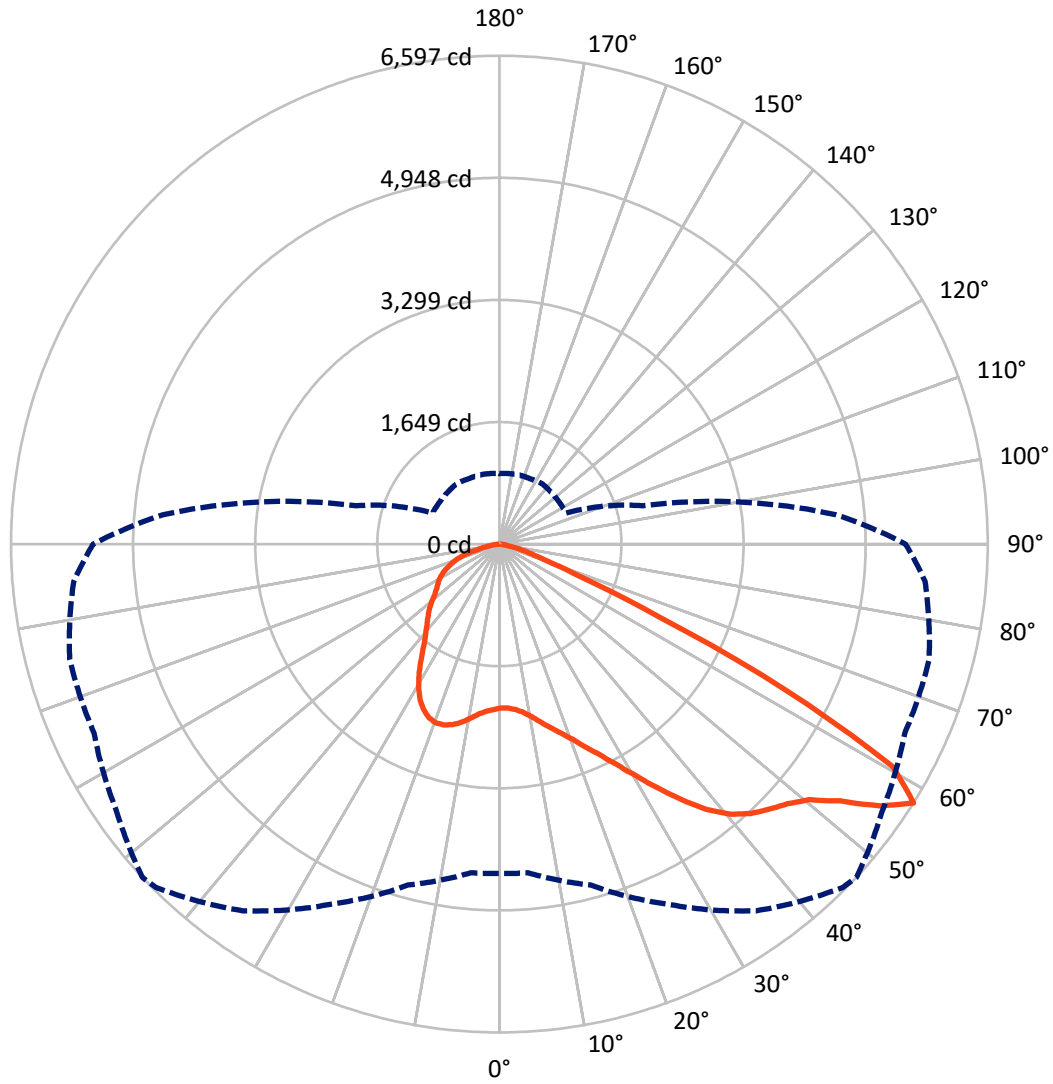
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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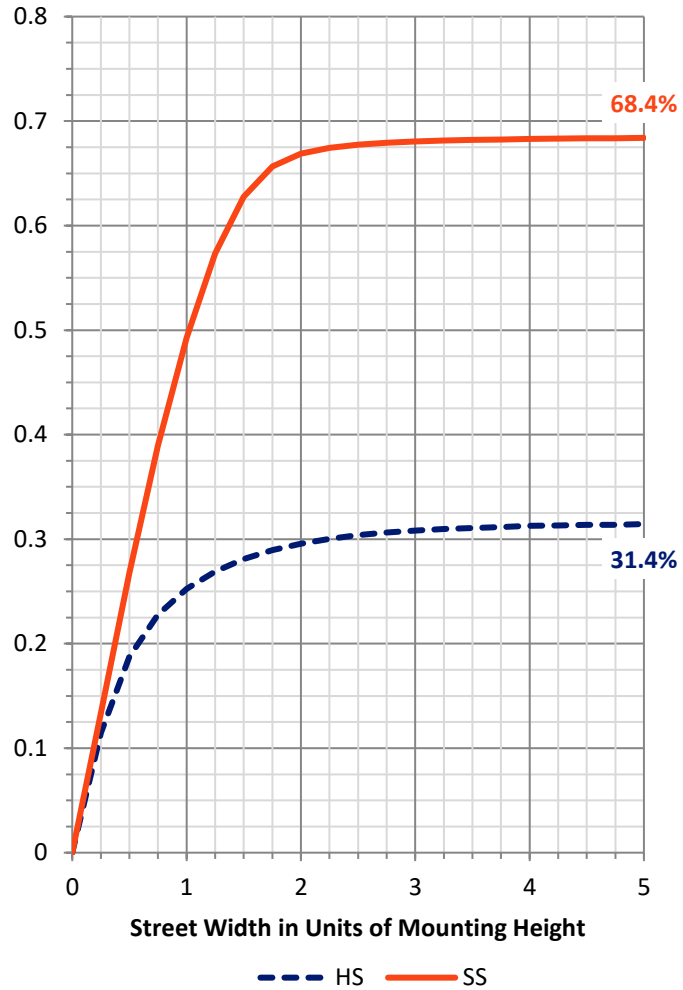
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3776.4   | 0.0    | 3776.4  |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 8155.4   | 0.0    | 8155.4  |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 11931.8  | 0.0    | 11931.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 218.3   | 1.8       |
| 10°-20°   | 717.8   | 6.0       |
| 20°-30°   | 1292.5  | 10.8      |
| 30°-40°   | 1952.2  | 16.4      |
| 40°-50°   | 2628.9  | 22.0      |
| 50°-60°   | 3159.0  | 26.5      |
| 60°-70°   | 1538.5  | 12.9      |
| 70°-80°   | 379.0   | 3.2       |
| 80°-90°   | 45.5    | 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°    | 11931.8 | 100.0     |
| 0°-180°   | 11931.8 | 100.0     |

**Coefficient of Utilization**



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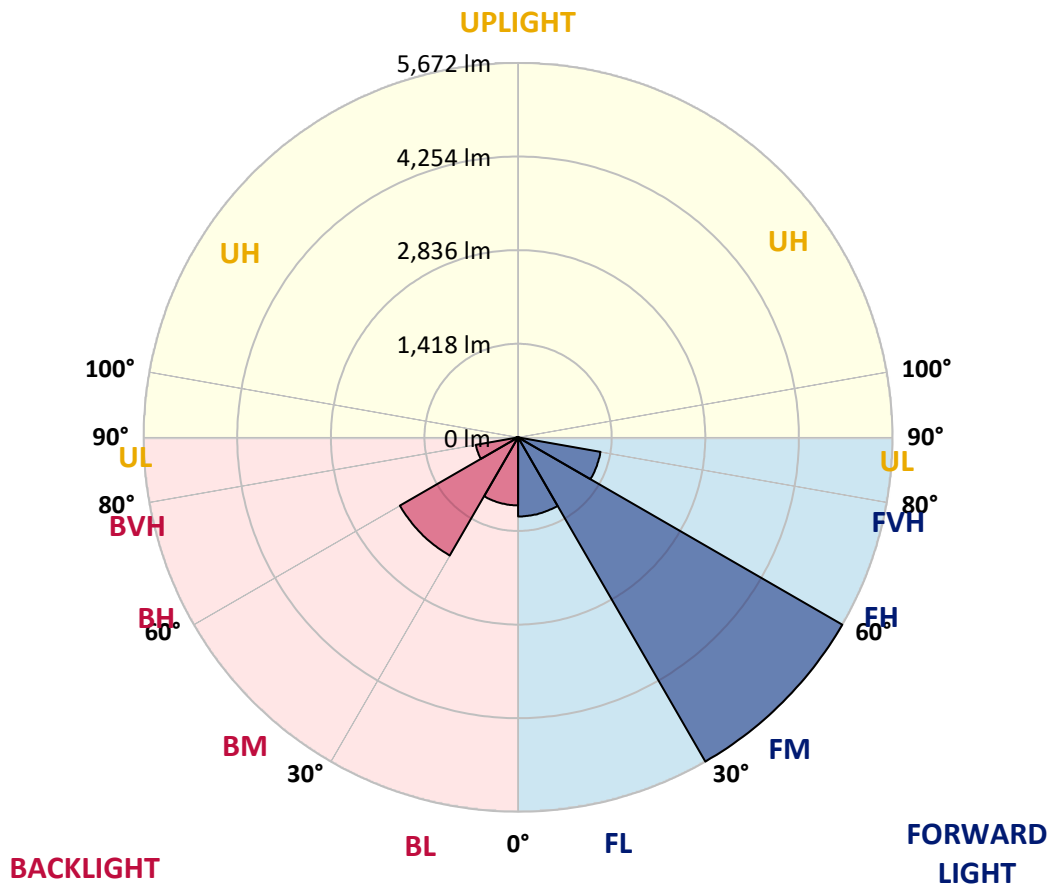
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1198.5 | 10.0      |                         |      |         |
| FM (30°-60°)   | 5671.8 | 47.5      |                         |      |         |
| FH (60°-80°)   | 1268.0 | 10.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 17.1   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1030.1 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 2068.3 | 17.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 649.5  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 28.4   | 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°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 |
| 2.5°  | 2208.8 | 2207.8 | 2207.8 | 2213.8 | 2213.8 | 2215.8 | 2218.8 | 2221.8 | 2222.8 | 2217.8 | 2206.8 |
| 5°    | 2232.8 | 2232.8 | 2232.8 | 2237.8 | 2237.8 | 2239.8 | 2243.8 | 2244.8 | 2243.8 | 2235.8 | 2224.8 |
| 7.5°  | 2270.9 | 2270.9 | 2271.9 | 2277.9 | 2282.9 | 2285.9 | 2292.9 | 2291.9 | 2288.9 | 2275.9 | 2261.9 |
| 10°   | 2333.0 | 2336.0 | 2339.0 | 2346.1 | 2356.1 | 2363.1 | 2368.1 | 2368.1 | 2364.1 | 2344.1 | 2326.0 |
| 12.5° | 2421.2 | 2425.2 | 2428.2 | 2434.2 | 2442.3 | 2454.3 | 2465.3 | 2465.3 | 2460.3 | 2435.2 | 2408.2 |
| 15°   | 2524.4 | 2528.4 | 2527.4 | 2529.5 | 2544.5 | 2561.5 | 2570.5 | 2576.6 | 2578.6 | 2543.5 | 2501.4 |
| 17.5° | 2642.7 | 2646.7 | 2642.7 | 2636.7 | 2638.7 | 2665.7 | 2681.8 | 2703.8 | 2716.9 | 2669.8 | 2602.6 |
| 20°   | 2749.9 | 2745.9 | 2745.9 | 2749.9 | 2755.9 | 2789.0 | 2813.1 | 2849.1 | 2865.2 | 2808.1 | 2703.8 |
| 22.5° | 2863.2 | 2872.2 | 2868.2 | 2868.2 | 2892.2 | 2947.4 | 2976.4 | 3023.5 | 3040.6 | 2966.4 | 2826.1 |
| 25°   | 3009.5 | 3017.5 | 3015.5 | 3017.5 | 3045.6 | 3123.7 | 3152.8 | 3240.0 | 3257.0 | 3150.8 | 2961.4 |
| 27.5° | 3169.8 | 3182.9 | 3188.9 | 3186.9 | 3232.0 | 3334.2 | 3370.3 | 3491.5 | 3522.6 | 3357.2 | 3105.7 |
| 30°   | 3378.3 | 3392.3 | 3397.3 | 3395.3 | 3448.4 | 3587.7 | 3628.8 | 3767.1 | 3811.2 | 3601.8 | 3289.1 |
| 32.5° | 3619.8 | 3633.8 | 3648.9 | 3654.9 | 3723.0 | 3865.3 | 3924.5 | 4067.8 | 4130.9 | 3884.4 | 3510.6 |
| 35°   | 3859.3 | 3871.3 | 3900.4 | 3947.5 | 4040.7 | 4186.0 | 4238.1 | 4379.4 | 4440.6 | 4178.0 | 3778.1 |
| 37.5° | 4123.9 | 4131.9 | 4157.0 | 4222.1 | 4356.4 | 4494.7 | 4546.8 | 4682.1 | 4689.1 | 4461.6 | 4080.8 |
| 40°   | 4413.5 | 4413.5 | 4408.5 | 4472.6 | 4612.9 | 4752.2 | 4797.3 | 4875.5 | 4834.4 | 4680.1 | 4375.4 |
| 42.5° | 4659.0 | 4655.0 | 4659.0 | 4719.2 | 4823.4 | 4936.6 | 4975.7 | 4960.7 | 4908.6 | 4847.4 | 4642.0 |
| 45°   | 4880.5 | 4883.5 | 4919.6 | 4965.7 | 5019.8 | 5087.0 | 5110.0 | 5024.8 | 4977.7 | 4981.7 | 4855.5 |
| 47.5° | 5030.8 | 5033.9 | 5118.0 | 5195.2 | 5228.3 | 5249.3 | 5239.3 | 5121.0 | 5097.0 | 5142.1 | 5019.8 |
| 50°   | 5050.9 | 5066.9 | 5212.2 | 5370.6 | 5452.8 | 5455.8 | 5427.7 | 5283.4 | 5276.4 | 5327.5 | 5108.0 |
| 52.5° | 5054.9 | 5070.9 | 5252.3 | 5537.9 | 5751.4 | 5796.5 | 5764.4 | 5614.1 | 5540.9 | 5489.8 | 5216.2 |
| 55°   | 5039.9 | 5057.9 | 5258.3 | 5650.2 | 6059.1 | 6239.4 | 6242.5 | 6030.0 | 5796.5 | 5762.4 | 5524.9 |
| 57.5° | 4449.6 | 4456.6 | 4767.3 | 5364.6 | 6047.0 | 6558.1 | 6597.2 | 6308.6 | 6042.0 | 6010.0 | 5772.4 |
| 60°   | 3099.7 | 3127.7 | 3465.5 | 4254.2 | 5079.9 | 5980.9 | 6107.2 | 6023.0 | 5844.6 | 5611.1 | 4952.7 |
| 62.5° | 1552.3 | 1576.4 | 1915.1 | 2660.7 | 3503.6 | 4215.1 | 4350.4 | 4439.6 | 4481.7 | 4231.1 | 3372.3 |
| 65°   | 668.4  | 686.5  | 896.9  | 1390.0 | 1983.3 | 2327.0 | 2374.1 | 2481.3 | 2743.9 | 2448.3 | 1816.9 |
| 67.5° | 447.0  | 459.0  | 566.2  | 847.8  | 1168.5 | 1190.6 | 1183.6 | 1206.6 | 1263.7 | 1043.2 | 820.8  |
| 70°   | 342.7  | 352.8  | 424.9  | 621.3  | 839.8  | 718.5  | 680.5  | 617.3  | 670.4  | 683.5  | 665.4  |
| 72.5° | 248.5  | 256.6  | 310.7  | 423.9  | 526.1  | 459.0  | 453.0  | 485.0  | 557.2  | 577.2  | 566.2  |
| 75°   | 160.3  | 164.4  | 197.4  | 232.5  | 271.6  | 294.6  | 306.7  | 364.8  | 437.9  | 453.0  | 439.9  |
| 77.5° | 107.2  | 110.2  | 129.3  | 149.3  | 154.3  | 155.3  | 159.3  | 185.4  | 235.5  | 263.6  | 260.6  |
| 80°   | 56.1   | 56.1   | 63.1   | 63.1   | 72.2   | 86.2   | 90.2   | 107.2  | 130.3  | 144.3  | 145.3  |
| 82.5° | 22.0   | 23.0   | 27.1   | 30.1   | 36.1   | 44.1   | 47.1   | 56.1   | 68.1   | 78.2   | 87.2   |
| 85°   | 9.0    | 10.0   | 11.0   | 13.0   | 16.0   | 20.0   | 21.0   | 24.1   | 32.1   | 40.1   | 45.1   |
| 87.5° | 0.0    | 0.0    | 1.0    | 1.0    | 2.0    | 3.0    | 3.0    | 4.0    | 5.0    | 9.0    | 12.0   |
| 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°    | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 |
| 2.5°  | 2219.8 | 2206.8 | 2219.8 | 2223.8 | 2234.8 | 2238.8 | 2231.8 | 2230.8 | 2230.8 | 2220.8 | 2217.8 |
| 5°    | 2234.8 | 2222.8 | 2235.8 | 2241.8 | 2257.9 | 2267.9 | 2269.9 | 2277.9 | 2282.9 | 2278.9 | 2277.9 |
| 7.5°  | 2271.9 | 2256.9 | 2270.9 | 2279.9 | 2301.0 | 2317.0 | 2324.0 | 2342.0 | 2355.1 | 2353.1 | 2352.1 |
| 10°   | 2337.0 | 2317.0 | 2333.0 | 2348.1 | 2371.1 | 2390.2 | 2391.2 | 2401.2 | 2414.2 | 2410.2 | 2408.2 |
| 12.5° | 2412.2 | 2393.2 | 2411.2 | 2426.2 | 2453.3 | 2461.3 | 2448.3 | 2444.3 | 2446.3 | 2441.3 | 2437.3 |
| 15°   | 2504.4 | 2477.3 | 2493.4 | 2510.4 | 2525.4 | 2516.4 | 2488.4 | 2477.3 | 2476.3 | 2469.3 | 2465.3 |
| 17.5° | 2596.6 | 2562.5 | 2574.5 | 2583.6 | 2576.6 | 2548.5 | 2513.4 | 2494.4 | 2485.4 | 2471.3 | 2467.3 |
| 20°   | 2687.8 | 2644.7 | 2642.7 | 2635.7 | 2603.6 | 2552.5 | 2505.4 | 2467.3 | 2444.3 | 2425.2 | 2418.2 |
| 22.5° | 2792.0 | 2731.9 | 2701.8 | 2669.8 | 2599.6 | 2516.4 | 2445.3 | 2391.2 | 2354.1 | 2330.0 | 2322.0 |
| 25°   | 2904.3 | 2819.1 | 2756.9 | 2692.8 | 2559.5 | 2439.3 | 2340.0 | 2265.9 | 2221.8 | 2195.7 | 2186.7 |
| 27.5° | 3015.5 | 2898.2 | 2805.0 | 2695.8 | 2479.3 | 2328.0 | 2194.7 | 2094.5 | 2050.4 | 2029.4 | 2022.4 |
| 30°   | 3165.8 | 3003.5 | 2862.2 | 2656.7 | 2374.1 | 2173.7 | 2007.3 | 1906.1 | 1877.0 | 1862.0 | 1856.0 |
| 32.5° | 3339.2 | 3136.8 | 2938.3 | 2574.5 | 2239.8 | 1993.3 | 1817.9 | 1747.8 | 1727.7 | 1698.7 | 1697.7 |
| 35°   | 3567.7 | 3327.2 | 3010.5 | 2453.3 | 2070.5 | 1799.9 | 1672.6 | 1622.5 | 1586.4 | 1540.3 | 1536.3 |
| 37.5° | 3834.3 | 3564.7 | 3049.6 | 2299.0 | 1873.0 | 1640.5 | 1564.4 | 1508.3 | 1450.1 | 1389.0 | 1381.0 |
| 40°   | 4109.9 | 3842.3 | 3052.6 | 2116.6 | 1679.6 | 1535.3 | 1471.2 | 1398.0 | 1325.9 | 1257.7 | 1248.7 |
| 42.5° | 4399.5 | 4100.8 | 2999.5 | 1906.1 | 1521.3 | 1444.1 | 1379.0 | 1286.8 | 1205.6 | 1159.5 | 1154.5 |
| 45°   | 4658.0 | 4309.3 | 2879.2 | 1684.6 | 1404.0 | 1367.9 | 1284.8 | 1185.6 | 1142.5 | 1109.4 | 1102.4 |
| 47.5° | 4861.5 | 4447.6 | 2716.9 | 1486.2 | 1308.8 | 1289.8 | 1181.5 | 1130.4 | 1097.4 | 1067.3 | 1060.3 |
| 50°   | 4961.7 | 4478.7 | 2505.4 | 1324.9 | 1220.6 | 1197.6 | 1123.4 | 1084.3 | 1062.3 | 1038.2 | 1032.2 |
| 52.5° | 5086.0 | 4513.7 | 2323.0 | 1189.6 | 1134.4 | 1103.4 | 1075.3 | 1044.3 | 1028.2 | 1013.2 | 1008.2 |
| 55°   | 5371.6 | 4646.0 | 2226.8 | 1081.3 | 1052.3 | 1038.2 | 1034.2 | 1008.2 | 1003.2 | 993.1  | 984.1  |
| 57.5° | 5487.8 | 4560.8 | 1999.3 | 993.1  | 987.1  | 989.1  | 999.2  | 975.1  | 970.1  | 958.1  | 952.1  |
| 60°   | 4413.5 | 3447.4 | 1353.9 | 917.0  | 933.0  | 946.0  | 956.1  | 932.0  | 925.0  | 923.0  | 915.0  |
| 62.5° | 2828.1 | 2120.6 | 945.0  | 845.8  | 869.9  | 885.9  | 891.9  | 868.9  | 863.9  | 879.9  | 880.9  |
| 65°   | 1472.2 | 1155.5 | 766.7  | 769.7  | 789.7  | 813.8  | 825.8  | 817.8  | 815.8  | 832.8  | 833.8  |
| 67.5° | 751.6  | 706.5  | 668.4  | 679.5  | 695.5  | 726.6  | 754.6  | 789.7  | 801.7  | 803.7  | 804.7  |
| 70°   | 640.4  | 620.3  | 601.3  | 608.3  | 625.3  | 642.4  | 669.4  | 686.5  | 666.4  | 661.4  | 659.4  |
| 72.5° | 545.2  | 530.1  | 521.1  | 529.1  | 538.2  | 535.2  | 527.1  | 535.2  | 538.2  | 539.2  | 540.2  |
| 75°   | 423.9  | 412.9  | 405.9  | 406.9  | 406.9  | 395.9  | 380.8  | 371.8  | 361.8  | 353.8  | 353.8  |
| 77.5° | 259.6  | 261.6  | 268.6  | 267.6  | 266.6  | 262.6  | 247.5  | 239.5  | 215.5  | 208.4  | 208.4  |
| 80°   | 148.3  | 151.3  | 158.3  | 160.3  | 160.3  | 155.3  | 140.3  | 131.3  | 120.3  | 115.2  | 114.2  |
| 82.5° | 90.2   | 94.2   | 98.2   | 100.2  | 101.2  | 95.2   | 82.2   | 75.2   | 69.1   | 64.1   | 64.1   |
| 85°   | 47.1   | 49.1   | 53.1   | 54.1   | 51.1   | 45.1   | 38.1   | 35.1   | 29.1   | 28.1   | 28.1   |
| 87.5° | 13.0   | 14.0   | 16.0   | 13.0   | 12.0   | 9.0    | 5.0    | 4.0    | 2.0    | 1.0    | 1.0    |
| 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)