

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: P633523

Luminaire Tested: GWS-SA2E-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6779.5 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

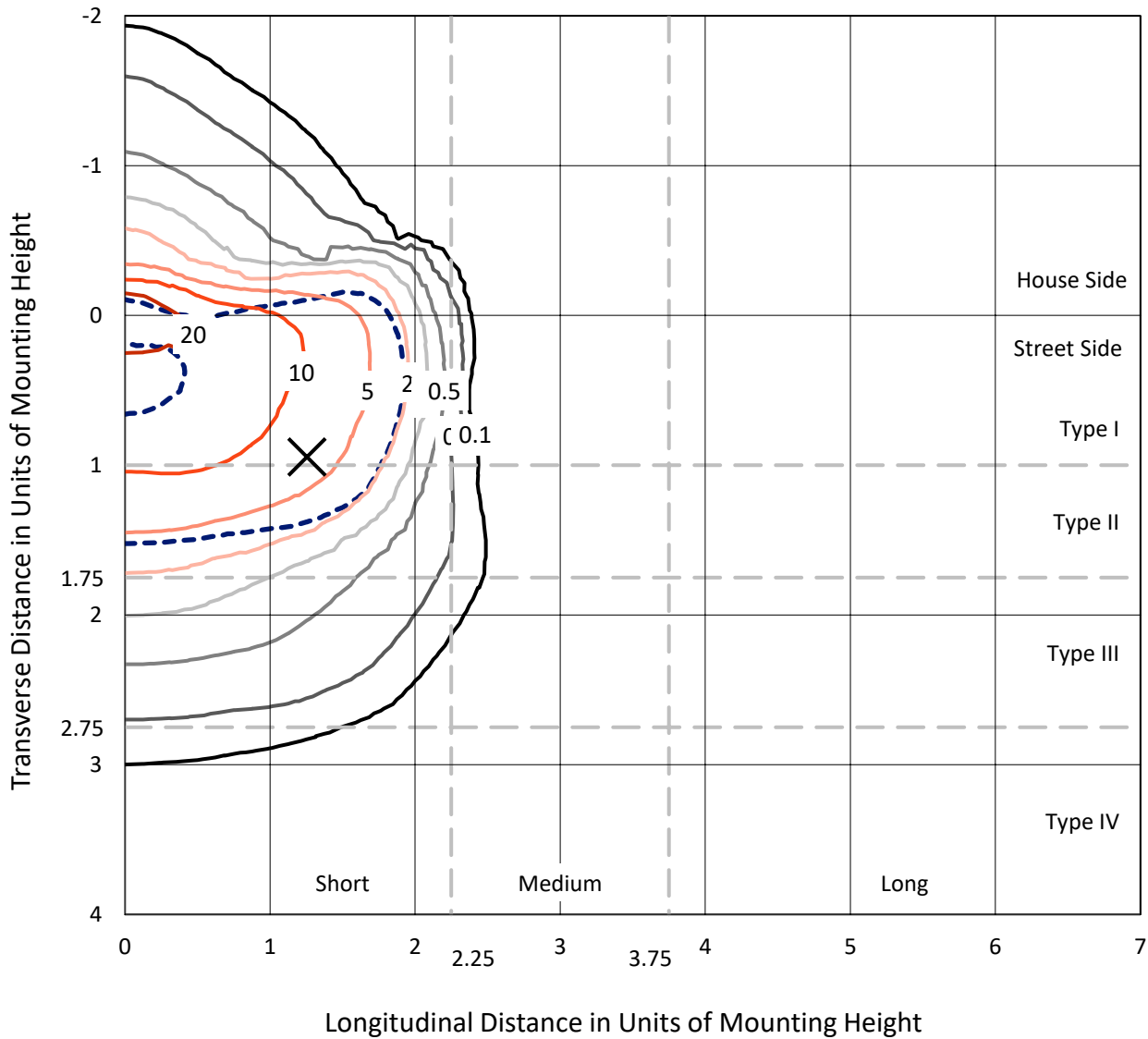
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

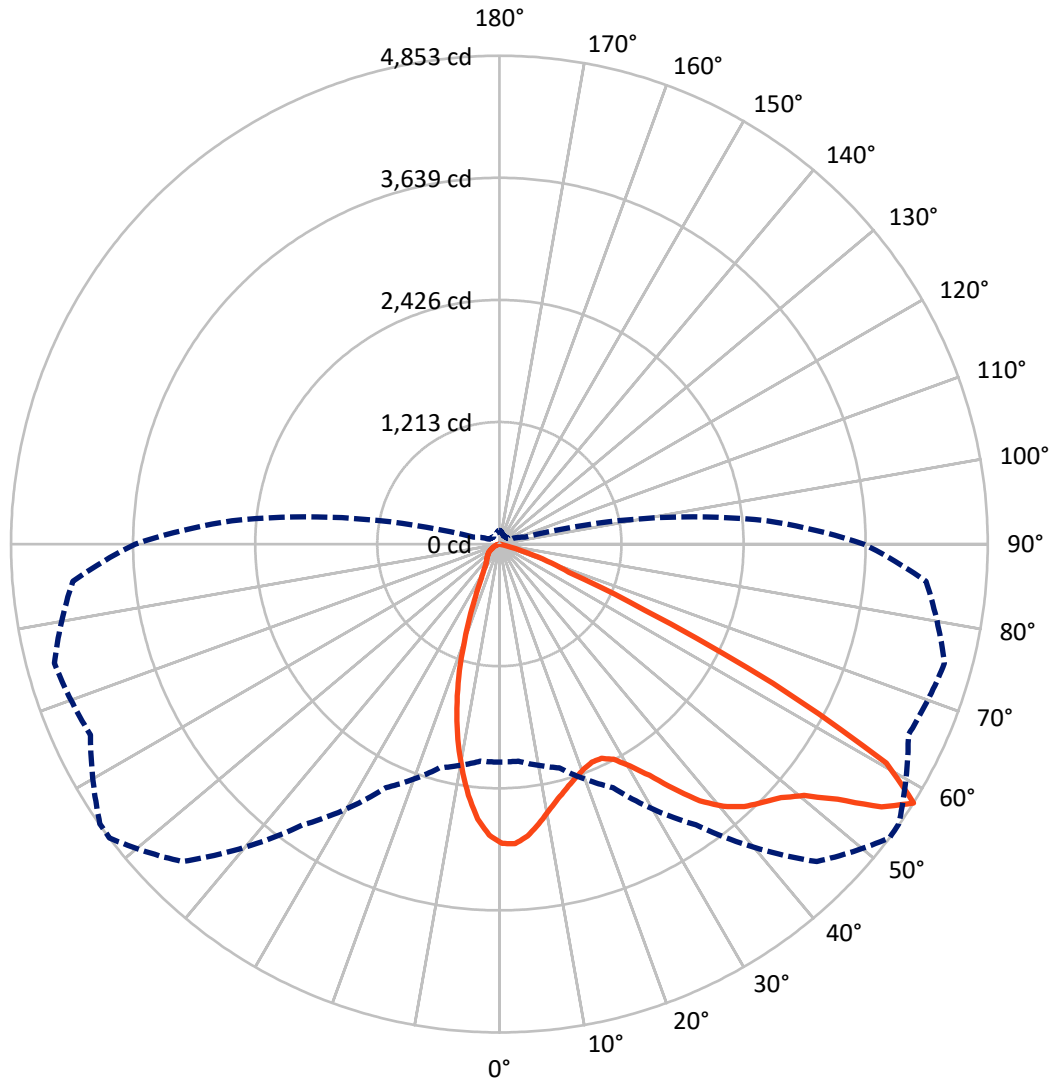
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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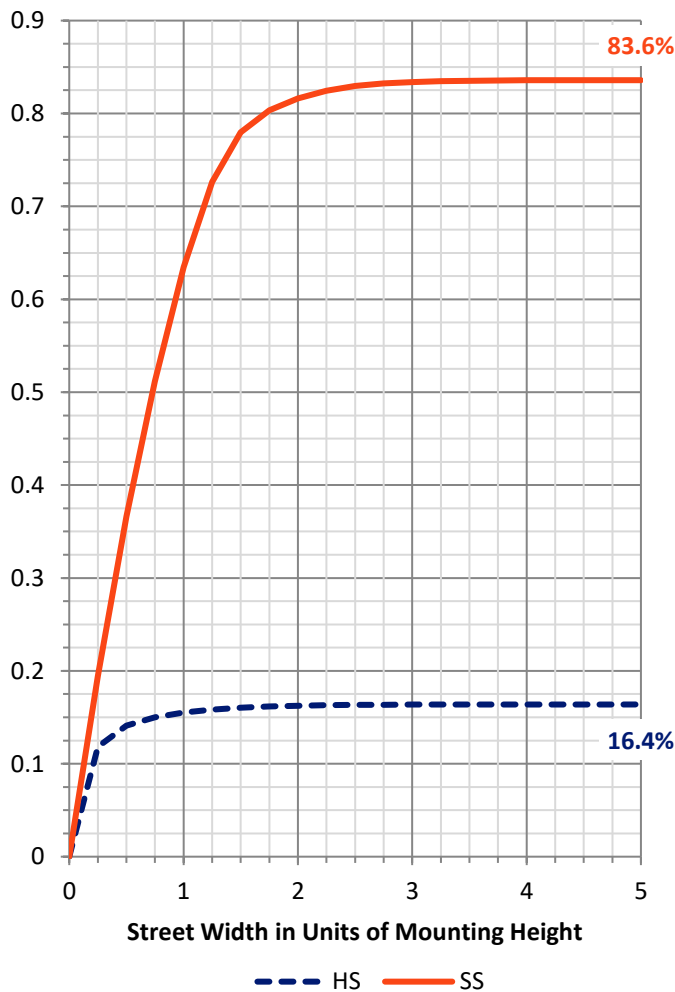
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1119.9 | 0.0 | 1119.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 5659.6 | 0.0 | 5659.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 6779.5 | 0.0 | 6779.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 254.4 | 3.8 |
| 10°-20° | 558.6 | 8.2 |
| 20°-30° | 727.7 | 10.7 |
| 30°-40° | 1055.5 | 15.6 |
| 40°-50° | 1523.1 | 22.5 |
| 50°-60° | 1842.0 | 27.2 |
| 60°-70° | 750.7 | 11.1 |
| 70°-80° | 67.5 | 1.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 6779.5 | 100.0 |
| 0°-180° | 6779.5 | 100.0 |

Coefficient of Utilization



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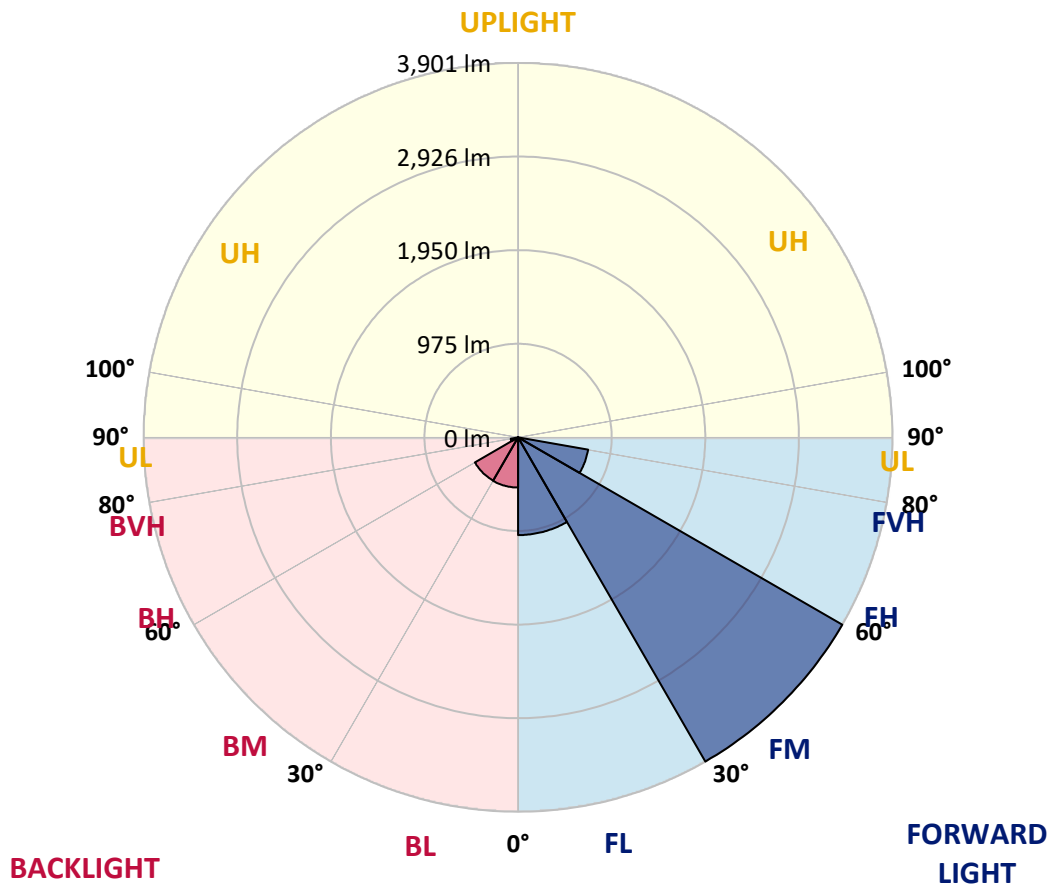
CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1018.1 | 15.0 | | | |
| FM (30°-60°) | 3900.8 | 57.5 | | | |
| FH (60°-80°) | 740.8 | 10.9 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 522.7 | 7.7 | B2/1000 | | |
| BM (30°-60°) | 519.8 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 77.4 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | 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° | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 |
| 2.5° | 2932.3 | 2939.0 | 2950.6 | 2965.6 | 2975.5 | 2980.5 | 2980.5 | 2994.6 | 2985.5 | 2978.0 | 2969.7 |
| 5° | 2806.9 | 2813.5 | 2829.3 | 2853.4 | 2877.5 | 2894.9 | 2914.9 | 2929.8 | 2935.7 | 2935.7 | 2921.5 |
| 7.5° | 2629.9 | 2639.0 | 2649.0 | 2682.2 | 2734.6 | 2773.6 | 2807.7 | 2829.3 | 2860.9 | 2870.8 | 2850.9 |
| 10° | 2439.6 | 2448.7 | 2471.2 | 2516.9 | 2576.7 | 2634.9 | 2693.0 | 2720.4 | 2774.5 | 2802.7 | 2780.3 |
| 12.5° | 2278.4 | 2282.5 | 2312.5 | 2367.3 | 2443.7 | 2523.5 | 2594.1 | 2622.4 | 2698.8 | 2741.2 | 2714.6 |
| 15° | 2145.4 | 2147.9 | 2177.9 | 2238.5 | 2326.6 | 2424.6 | 2513.5 | 2542.6 | 2636.5 | 2700.5 | 2660.6 |
| 17.5° | 2044.9 | 2045.7 | 2071.5 | 2137.1 | 2229.4 | 2338.2 | 2443.7 | 2479.5 | 2600.8 | 2678.1 | 2618.2 |
| 20° | 1994.2 | 1991.7 | 2010.0 | 2067.3 | 2154.6 | 2263.4 | 2388.1 | 2432.1 | 2580.8 | 2674.7 | 2585.8 |
| 22.5° | 1995.0 | 1989.2 | 1996.7 | 2037.4 | 2111.4 | 2213.6 | 2353.2 | 2403.0 | 2582.5 | 2688.9 | 2558.4 |
| 25° | 2042.4 | 2034.1 | 2035.8 | 2057.4 | 2109.7 | 2202.8 | 2358.2 | 2411.3 | 2615.7 | 2736.2 | 2548.4 |
| 27.5° | 2122.2 | 2113.0 | 2113.0 | 2123.8 | 2152.1 | 2236.8 | 2420.5 | 2481.1 | 2704.7 | 2828.5 | 2569.2 |
| 30° | 2225.2 | 2216.1 | 2212.7 | 2223.6 | 2246.8 | 2324.9 | 2559.2 | 2622.4 | 2856.7 | 2979.7 | 2635.7 |
| 32.5° | 2343.2 | 2332.4 | 2338.2 | 2353.2 | 2375.6 | 2483.6 | 2737.9 | 2821.8 | 3047.0 | 3183.3 | 2755.3 |
| 35° | 2467.8 | 2458.7 | 2485.3 | 2517.7 | 2552.6 | 2703.8 | 2984.7 | 3057.8 | 3280.5 | 3436.7 | 2938.1 |
| 37.5° | 2586.7 | 2582.5 | 2638.2 | 2706.3 | 2778.6 | 2968.1 | 3235.6 | 3292.1 | 3480.7 | 3712.6 | 3161.7 |
| 40° | 2705.5 | 2704.7 | 2800.2 | 2919.9 | 3035.4 | 3231.5 | 3425.9 | 3472.4 | 3602.9 | 3926.9 | 3376.0 |
| 42.5° | 2838.4 | 2838.4 | 2970.6 | 3130.1 | 3283.8 | 3454.1 | 3565.5 | 3586.3 | 3657.7 | 4050.8 | 3537.2 |
| 45° | 2965.6 | 2973.0 | 3125.9 | 3311.2 | 3493.2 | 3627.8 | 3661.9 | 3663.5 | 3680.2 | 4123.9 | 3671.0 |
| 47.5° | 3066.1 | 3072.8 | 3255.6 | 3469.1 | 3665.2 | 3759.9 | 3764.9 | 3757.4 | 3739.2 | 4193.7 | 3774.1 |
| 50° | 3147.5 | 3157.5 | 3348.6 | 3574.6 | 3783.2 | 3887.1 | 3925.3 | 3917.8 | 3871.3 | 4268.5 | 3846.3 |
| 52.5° | 3187.4 | 3201.5 | 3381.0 | 3627.0 | 3914.5 | 4104.8 | 4211.1 | 4228.6 | 4069.0 | 4310.0 | 3915.3 |
| 55° | 2868.3 | 2889.1 | 3054.5 | 3391.0 | 3987.6 | 4441.3 | 4608.3 | 4605.0 | 4283.4 | 4433.8 | 4083.2 |
| 57.5° | 2166.2 | 2164.6 | 2301.7 | 2669.8 | 3406.0 | 4460.4 | 4852.6 | 4845.9 | 4483.7 | 4577.6 | 4255.2 |
| 60° | 1474.9 | 1464.9 | 1501.5 | 1679.3 | 2381.4 | 3633.6 | 4416.4 | 4506.1 | 4341.6 | 4228.6 | 3612.9 |
| 62.5° | 1214.0 | 1204.8 | 1193.2 | 1144.2 | 1367.7 | 2263.4 | 3051.2 | 3187.4 | 3165.8 | 2939.0 | 2265.9 |
| 65° | 993.8 | 1001.3 | 1033.7 | 1012.9 | 951.4 | 1160.8 | 1583.7 | 1664.3 | 1521.4 | 1280.5 | 791.9 |
| 67.5° | 732.9 | 736.2 | 778.6 | 888.3 | 855.0 | 772.8 | 745.3 | 758.6 | 444.5 | 204.4 | 132.1 |
| 70° | 432.9 | 435.4 | 474.5 | 621.5 | 693.8 | 593.3 | 503.5 | 496.1 | 176.2 | 54.8 | 59.8 |
| 72.5° | 245.1 | 240.1 | 247.6 | 295.8 | 378.1 | 314.9 | 259.2 | 236.0 | 53.2 | 30.7 | 30.7 |
| 75° | 116.3 | 113.0 | 97.2 | 91.4 | 83.1 | 53.2 | 33.2 | 28.3 | 13.3 | 12.5 | 12.5 |
| 77.5° | 0.8 | 2.5 | 1.7 | 2.5 | 2.5 | 1.7 | 0.8 | 0.8 | 2.5 | 2.5 | 3.3 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GWS-SA2E-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 | 2973.9 |
| 2.5° | 2954.8 | 2929.8 | 2924.0 | 2922.4 | 2899.1 | 2874.2 | 2848.4 | 2838.4 | 2823.5 | 2814.3 | 2821.8 |
| 5° | 2899.1 | 2863.4 | 2831.8 | 2802.7 | 2751.2 | 2694.7 | 2645.7 | 2614.1 | 2584.2 | 2564.2 | 2569.2 |
| 7.5° | 2820.2 | 2773.6 | 2701.3 | 2627.4 | 2532.7 | 2447.9 | 2353.2 | 2295.0 | 2241.0 | 2211.1 | 2225.2 |
| 10° | 2736.2 | 2674.7 | 2559.2 | 2433.8 | 2285.0 | 2152.1 | 2016.7 | 1906.1 | 1842.2 | 1781.5 | 1788.1 |
| 12.5° | 2654.0 | 2572.5 | 2399.7 | 2209.4 | 2021.6 | 1825.5 | 1621.1 | 1468.2 | 1363.5 | 1287.9 | 1276.3 |
| 15° | 2577.5 | 2472.8 | 2244.3 | 1993.4 | 1737.5 | 1476.6 | 1215.6 | 997.1 | 875.8 | 801.0 | 796.0 |
| 17.5° | 2509.4 | 2379.8 | 2083.1 | 1767.4 | 1446.6 | 1112.6 | 812.6 | 649.0 | 579.2 | 546.7 | 543.4 |
| 20° | 2443.7 | 2285.9 | 1918.6 | 1538.0 | 1129.2 | 781.1 | 560.9 | 485.3 | 462.8 | 449.5 | 451.2 |
| 22.5° | 2380.6 | 2183.7 | 1745.8 | 1283.8 | 846.7 | 548.4 | 434.6 | 405.5 | 403.0 | 404.7 | 405.5 |
| 25° | 2327.4 | 2089.8 | 1568.0 | 1038.7 | 604.1 | 418.0 | 363.1 | 354.8 | 362.3 | 373.1 | 374.7 |
| 27.5° | 2300.0 | 2013.3 | 1394.3 | 791.9 | 437.1 | 339.8 | 314.9 | 318.2 | 331.5 | 343.2 | 344.8 |
| 30° | 2307.5 | 1956.0 | 1214.8 | 574.2 | 336.5 | 286.7 | 278.4 | 285.0 | 298.3 | 309.1 | 310.8 |
| 32.5° | 2360.7 | 1926.9 | 1031.2 | 418.0 | 276.7 | 250.1 | 246.8 | 251.8 | 263.4 | 271.7 | 272.5 |
| 35° | 2466.2 | 1933.6 | 856.7 | 319.9 | 237.6 | 222.7 | 221.9 | 225.2 | 231.0 | 236.8 | 237.6 |
| 37.5° | 2621.6 | 1987.6 | 684.7 | 265.9 | 215.2 | 204.4 | 201.1 | 201.1 | 205.2 | 207.7 | 209.4 |
| 40° | 2788.6 | 2069.0 | 548.4 | 235.2 | 199.4 | 187.8 | 181.1 | 178.6 | 182.0 | 185.3 | 186.1 |
| 42.5° | 2926.5 | 2150.4 | 445.4 | 213.5 | 187.0 | 171.2 | 162.9 | 161.2 | 165.4 | 171.2 | 172.8 |
| 45° | 3032.0 | 2213.6 | 371.4 | 196.1 | 172.8 | 155.4 | 146.2 | 146.2 | 153.7 | 163.7 | 165.4 |
| 47.5° | 3128.4 | 2264.3 | 316.6 | 180.3 | 159.5 | 141.3 | 132.1 | 133.8 | 146.2 | 159.5 | 162.0 |
| 50° | 3194.1 | 2305.0 | 275.9 | 166.2 | 148.7 | 129.6 | 121.3 | 124.6 | 139.6 | 155.4 | 157.9 |
| 52.5° | 3264.7 | 2354.8 | 249.3 | 153.7 | 138.8 | 120.5 | 113.0 | 115.5 | 132.1 | 149.6 | 152.9 |
| 55° | 3460.0 | 2521.9 | 248.4 | 137.1 | 121.3 | 108.0 | 104.7 | 105.5 | 122.1 | 142.1 | 146.2 |
| 57.5° | 3619.5 | 2668.9 | 265.1 | 115.5 | 101.4 | 94.7 | 93.1 | 93.9 | 108.9 | 131.3 | 136.3 |
| 60° | 2994.6 | 2074.0 | 219.4 | 95.6 | 84.8 | 83.1 | 80.6 | 82.3 | 96.4 | 116.3 | 120.5 |
| 62.5° | 1772.4 | 1185.7 | 104.7 | 73.1 | 72.3 | 70.6 | 68.1 | 71.5 | 84.8 | 102.2 | 104.7 |
| 65° | 605.7 | 351.5 | 66.5 | 59.8 | 61.5 | 59.0 | 56.5 | 59.8 | 71.5 | 81.4 | 82.3 |
| 67.5° | 116.3 | 93.1 | 53.2 | 49.9 | 50.7 | 45.7 | 44.9 | 48.2 | 54.8 | 56.5 | 55.7 |
| 70° | 60.7 | 54.0 | 40.7 | 40.7 | 39.1 | 32.4 | 32.4 | 35.7 | 35.7 | 33.2 | 32.4 |
| 72.5° | 31.6 | 29.9 | 26.6 | 29.9 | 24.9 | 19.9 | 19.9 | 21.6 | 19.9 | 16.6 | 16.6 |
| 75° | 12.5 | 12.5 | 11.6 | 15.0 | 10.8 | 9.1 | 8.3 | 10.0 | 7.5 | 5.8 | 5.8 |
| 77.5° | 3.3 | 3.3 | 3.3 | 4.2 | 2.5 | 2.5 | 1.7 | 1.7 | 0.8 | 0.0 | 0.0 |
| 80° | 0.0 | 0.8 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)