

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: P643432

Luminaire Tested: GWS-SA6E-830-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33328.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

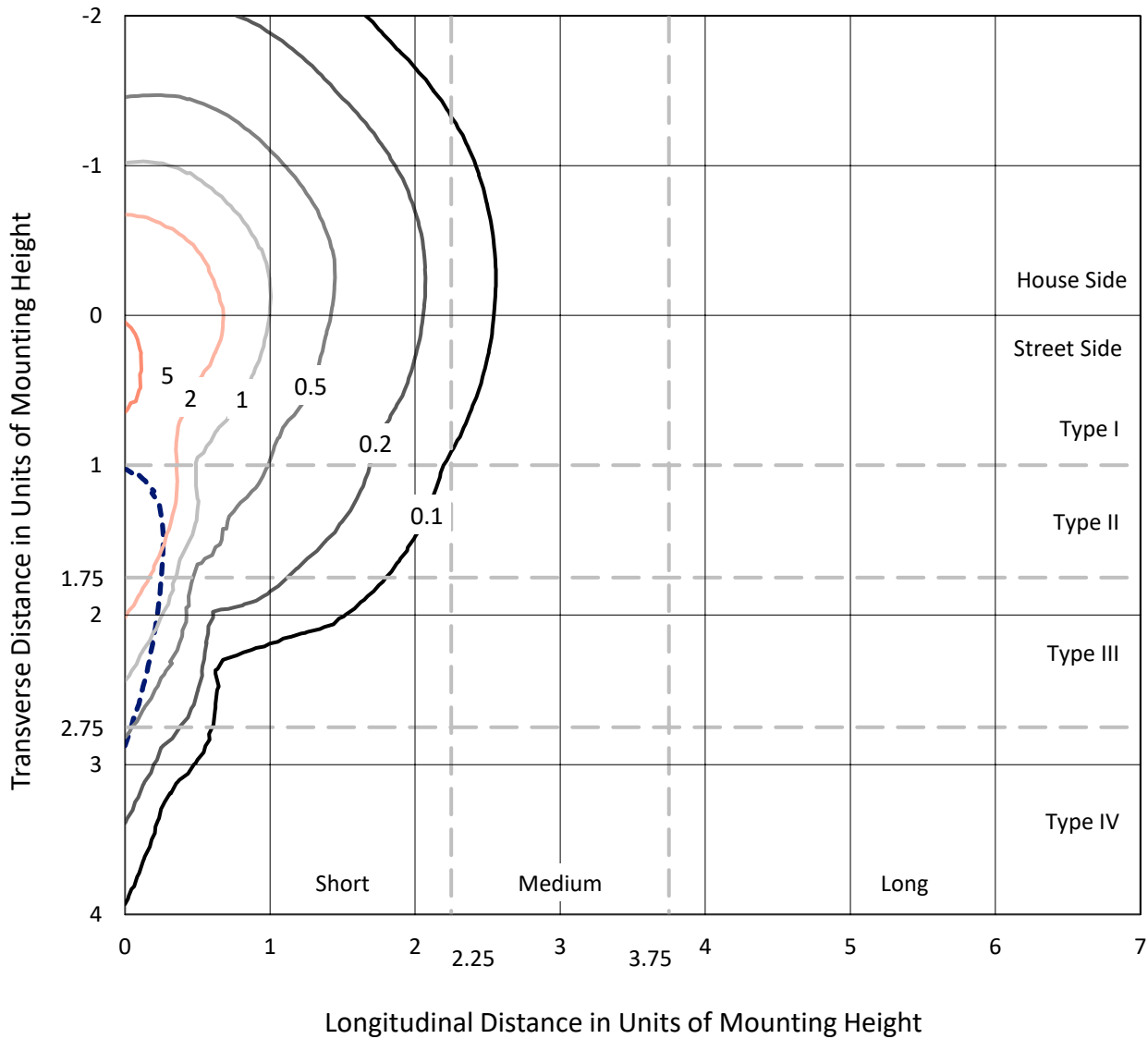
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643432
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Iso-Footcandle Lines of Horizontal Illumination

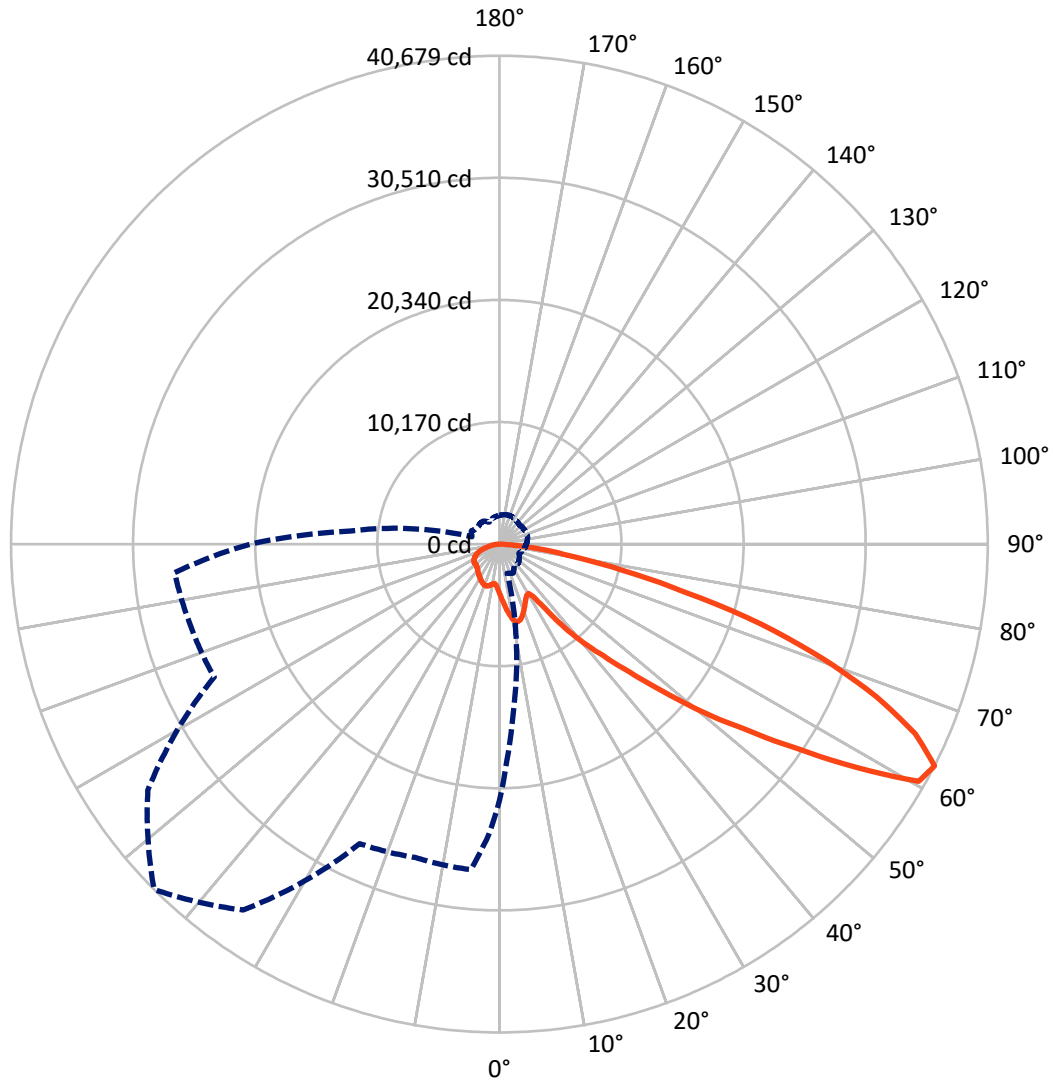
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7968.9 | 0.0 | 7968.9 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 25359.7 | 0.0 | 25359.7 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 33328.6 | 0.0 | 33328.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 409.4 | 1.2 |
| 10°-20° | 1330.4 | 4.0 |
| 20°-30° | 2094.4 | 6.3 |
| 30°-40° | 2870.8 | 8.6 |
| 40°-50° | 4479.3 | 13.4 |
| 50°-60° | 7723.3 | 23.2 |
| 60°-70° | 8950.3 | 26.9 |
| 70°-80° | 4724.4 | 14.2 |
| 80°-90° | 746.3 | 2.2 |
| 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° | 33328.6 | 100.0 |
| 0°-180° | 33328.6 | 100.0 |

Coefficient of Utilization



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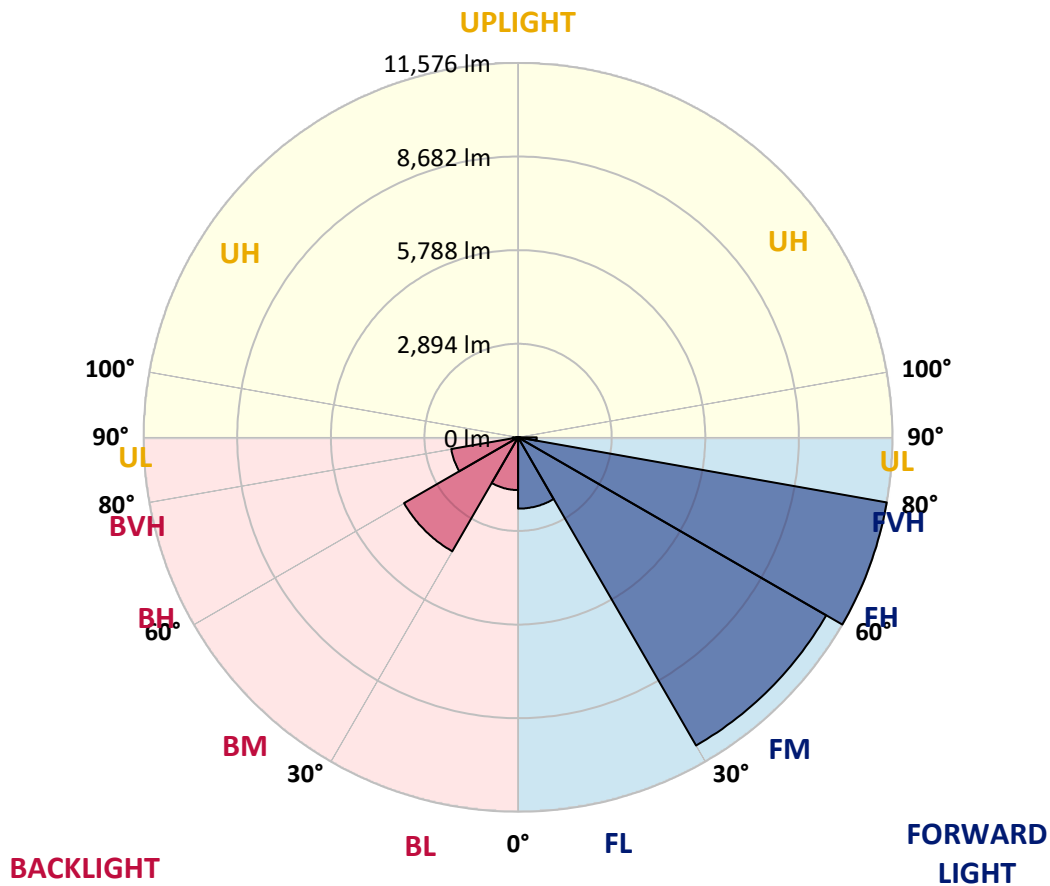
CATALOG NUMBER: GWS-SA6E-830-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2204.3 | 6.6 | | | |
| FM (30°-60°) | 11002.9 | 33.0 | | | |
| FH (60°-80°) | 11576.4 | 34.7 | | | G4/12000 |
| FVH (80°-90°) | 576.0 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1629.9 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 4070.5 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 2098.2 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 170.3 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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 CATALOG NUMBER: GWS-SA6E-830-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 |
| 2.5° | 4514.8 | 4497.0 | 4471.5 | 4384.8 | 4331.3 | 4270.1 | 4206.4 | 4132.4 | 4048.3 | 3989.7 | 3931.0 |
| 5° | 4897.2 | 4869.2 | 4808.0 | 4601.5 | 4458.8 | 4303.2 | 4173.2 | 4025.4 | 3880.1 | 3780.6 | 3681.2 |
| 7.5° | 5264.3 | 5228.6 | 5134.3 | 4818.2 | 4586.2 | 4361.9 | 4165.6 | 3951.4 | 3734.7 | 3586.9 | 3469.6 |
| 10° | 5631.4 | 5557.5 | 5437.7 | 5024.7 | 4718.8 | 4458.8 | 4234.4 | 3971.8 | 3683.8 | 3482.4 | 3357.5 |
| 12.5° | 5911.9 | 5843.0 | 5713.0 | 5213.4 | 4851.3 | 4525.0 | 4272.7 | 4030.5 | 3785.7 | 3571.6 | 3444.1 |
| 15° | 6174.4 | 6085.2 | 5937.4 | 5389.3 | 4961.0 | 4522.5 | 4196.2 | 3984.6 | 3948.9 | 3895.4 | 3729.7 |
| 17.5° | 6363.1 | 6281.5 | 6128.6 | 5532.0 | 5022.2 | 4443.5 | 3984.6 | 3859.7 | 4020.3 | 4183.4 | 4025.4 |
| 20° | 6528.8 | 6434.5 | 6279.0 | 5631.4 | 5034.9 | 4267.6 | 3727.1 | 3729.7 | 3982.0 | 4206.4 | 4168.1 |
| 22.5° | 6669.0 | 6564.5 | 6426.8 | 5743.6 | 5029.8 | 4022.8 | 3502.8 | 3655.7 | 3908.1 | 4084.0 | 4089.1 |
| 25° | 6842.4 | 6755.7 | 6641.0 | 5909.3 | 5029.8 | 3773.0 | 3339.6 | 3566.5 | 3783.2 | 3931.0 | 3925.9 |
| 27.5° | 7054.0 | 6995.3 | 6901.0 | 6161.7 | 5075.7 | 3563.9 | 3247.8 | 3451.8 | 3622.6 | 3750.0 | 3747.5 |
| 30° | 7291.0 | 7237.5 | 7166.1 | 6429.4 | 5154.7 | 3408.4 | 3196.8 | 3309.0 | 3433.9 | 3535.9 | 3535.9 |
| 32.5° | 7533.2 | 7512.8 | 7436.4 | 6643.5 | 5093.5 | 3360.0 | 3153.5 | 3166.3 | 3232.5 | 3316.7 | 3309.0 |
| 35° | 7869.7 | 7849.3 | 7752.5 | 6809.2 | 4828.4 | 3291.2 | 3084.7 | 3020.9 | 3028.6 | 3082.1 | 3100.0 |
| 37.5° | 8361.8 | 8331.2 | 8188.4 | 7003.0 | 4428.2 | 3117.8 | 2972.5 | 2868.0 | 2845.0 | 2868.0 | 2901.1 |
| 40° | 8955.7 | 8909.9 | 8716.1 | 7265.6 | 3966.7 | 2883.3 | 2796.6 | 2709.9 | 2671.7 | 2679.3 | 2717.6 |
| 42.5° | 9700.2 | 9603.3 | 9325.4 | 7543.4 | 3510.4 | 2676.8 | 2600.3 | 2546.8 | 2503.4 | 2498.3 | 2572.3 |
| 45° | 10908.5 | 10643.4 | 10202.4 | 7790.7 | 3125.5 | 2567.2 | 2424.4 | 2386.2 | 2350.5 | 2370.9 | 2457.5 |
| 47.5° | 13019.4 | 12529.9 | 11670.8 | 8002.3 | 2890.9 | 2569.7 | 2284.2 | 2243.4 | 2240.8 | 2281.6 | 2378.5 |
| 50° | 15920.5 | 15214.3 | 13888.7 | 8145.1 | 2768.6 | 2600.3 | 2200.1 | 2133.8 | 2182.2 | 2223.0 | 2314.8 |
| 52.5° | 18699.2 | 17620.9 | 16042.9 | 8142.5 | 2715.0 | 2605.4 | 2223.0 | 2031.8 | 2182.2 | 2192.4 | 2279.1 |
| 55° | 21072.7 | 19119.9 | 16624.1 | 7306.3 | 2638.5 | 2585.0 | 2312.2 | 1952.8 | 2154.2 | 2192.4 | 2261.2 |
| 57.5° | 22959.1 | 20073.3 | 16580.8 | 5901.7 | 2870.5 | 2472.8 | 2365.8 | 1934.9 | 2072.6 | 2197.5 | 2276.5 |
| 60° | 22750.1 | 19637.4 | 15512.6 | 3622.6 | 2847.6 | 2274.0 | 2358.1 | 1968.1 | 1934.9 | 2128.7 | 2258.7 |
| 62.5° | 21360.7 | 18074.7 | 13674.5 | 2513.6 | 2674.2 | 2159.3 | 2233.2 | 2026.7 | 1807.5 | 2029.3 | 2172.0 |
| 65° | 19415.6 | 16058.1 | 11395.4 | 1927.3 | 2215.4 | 2164.4 | 2021.6 | 1985.9 | 1695.3 | 1871.2 | 2024.2 |
| 67.5° | 16843.3 | 13557.3 | 8996.5 | 1527.0 | 1544.9 | 1873.7 | 1835.5 | 1764.1 | 1590.8 | 1731.0 | 1868.6 |
| 70° | 12662.5 | 9893.9 | 6189.7 | 1228.8 | 1170.1 | 1565.3 | 1649.4 | 1585.7 | 1488.8 | 1529.6 | 1674.9 |
| 72.5° | 8922.6 | 6460.0 | 3390.6 | 973.8 | 902.5 | 1203.3 | 1432.7 | 1422.5 | 1315.4 | 1346.0 | 1488.8 |
| 75° | 6630.8 | 4570.9 | 2118.5 | 769.9 | 734.2 | 861.7 | 1200.7 | 1231.3 | 1142.1 | 1177.8 | 1287.4 |
| 77.5° | 4412.9 | 2959.8 | 1177.8 | 571.0 | 571.0 | 629.7 | 894.8 | 1037.6 | 971.3 | 999.3 | 1075.8 |
| 80° | 2434.6 | 1506.6 | 588.9 | 374.7 | 384.9 | 433.4 | 652.6 | 746.9 | 749.5 | 818.3 | 838.7 |
| 82.5° | 769.9 | 479.3 | 262.6 | 219.2 | 206.5 | 247.3 | 420.6 | 535.4 | 499.7 | 637.3 | 586.3 |
| 85° | 175.9 | 112.2 | 48.4 | 48.4 | 53.5 | 81.6 | 160.6 | 285.5 | 364.6 | 438.5 | 318.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 112.2 | 165.7 | 147.9 |
| 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° | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 |
| 2.5° | 3895.4 | 3844.4 | 3829.1 | 3785.7 | 3780.6 | 3739.8 | 3724.6 | 3724.6 | 3742.4 | 3742.4 | 3760.2 |
| 5° | 3640.4 | 3576.7 | 3541.0 | 3490.0 | 3477.3 | 3446.7 | 3426.3 | 3428.8 | 3451.8 | 3467.1 | 3497.7 |
| 7.5° | 3416.1 | 3372.7 | 3347.3 | 3324.3 | 3319.2 | 3314.1 | 3291.2 | 3288.6 | 3296.3 | 3319.2 | 3342.2 |
| 10° | 3321.8 | 3291.2 | 3298.8 | 3316.7 | 3344.7 | 3360.0 | 3339.6 | 3329.4 | 3321.8 | 3337.1 | 3357.5 |
| 12.5° | 3413.5 | 3382.9 | 3398.2 | 3428.8 | 3467.1 | 3482.4 | 3474.7 | 3472.2 | 3479.8 | 3538.5 | 3581.8 |
| 15° | 3614.9 | 3556.3 | 3535.9 | 3548.6 | 3579.2 | 3594.5 | 3586.9 | 3597.1 | 3645.5 | 3798.5 | 3908.1 |
| 17.5° | 3864.8 | 3722.0 | 3640.4 | 3617.5 | 3630.2 | 3643.0 | 3643.0 | 3668.5 | 3752.6 | 3976.9 | 4114.6 |
| 20° | 3999.9 | 3813.8 | 3676.1 | 3620.0 | 3625.1 | 3637.9 | 3637.9 | 3673.6 | 3767.9 | 4007.5 | 4096.8 |
| 22.5° | 3964.2 | 3793.4 | 3625.1 | 3563.9 | 3566.5 | 3576.7 | 3576.7 | 3607.3 | 3691.4 | 3903.0 | 3943.8 |
| 25° | 3824.0 | 3673.6 | 3507.9 | 3454.3 | 3459.4 | 3477.3 | 3472.2 | 3490.0 | 3553.7 | 3727.1 | 3750.0 |
| 27.5° | 3655.7 | 3523.2 | 3360.0 | 3319.2 | 3342.2 | 3377.8 | 3347.3 | 3349.8 | 3408.4 | 3553.7 | 3556.3 |
| 30° | 3474.7 | 3365.1 | 3219.8 | 3189.2 | 3232.5 | 3250.4 | 3222.3 | 3222.3 | 3281.0 | 3380.4 | 3377.8 |
| 32.5° | 3278.4 | 3209.6 | 3105.1 | 3071.9 | 3120.4 | 3148.4 | 3112.7 | 3117.8 | 3163.7 | 3230.0 | 3204.5 |
| 35° | 3094.9 | 3059.2 | 3010.7 | 2987.8 | 3018.4 | 3043.9 | 3020.9 | 3031.1 | 3074.5 | 3092.3 | 3056.6 |
| 37.5° | 2919.0 | 2913.9 | 2919.0 | 2919.0 | 2926.6 | 2934.3 | 2919.0 | 2944.5 | 2982.7 | 2959.8 | 2919.0 |
| 40° | 2766.0 | 2786.4 | 2834.8 | 2822.1 | 2814.4 | 2822.1 | 2811.9 | 2855.2 | 2893.5 | 2852.7 | 2804.2 |
| 42.5° | 2638.5 | 2676.8 | 2750.7 | 2750.7 | 2735.4 | 2740.5 | 2735.4 | 2789.0 | 2817.0 | 2760.9 | 2707.4 |
| 45° | 2528.9 | 2585.0 | 2679.3 | 2692.1 | 2666.6 | 2666.6 | 2676.8 | 2743.1 | 2753.3 | 2676.8 | 2620.7 |
| 47.5° | 2452.4 | 2521.3 | 2628.3 | 2651.3 | 2613.0 | 2610.5 | 2638.5 | 2709.9 | 2709.9 | 2620.7 | 2557.0 |
| 50° | 2398.9 | 2475.4 | 2602.9 | 2633.4 | 2595.2 | 2585.0 | 2630.9 | 2699.7 | 2684.4 | 2577.4 | 2513.6 |
| 52.5° | 2363.2 | 2442.2 | 2600.3 | 2643.6 | 2618.1 | 2608.0 | 2653.8 | 2702.3 | 2664.0 | 2549.3 | 2483.0 |
| 55° | 2340.3 | 2426.9 | 2608.0 | 2643.6 | 2615.6 | 2597.8 | 2643.6 | 2687.0 | 2666.6 | 2534.0 | 2470.3 |
| 57.5° | 2353.0 | 2439.7 | 2597.8 | 2615.6 | 2582.5 | 2551.9 | 2605.4 | 2666.6 | 2658.9 | 2539.1 | 2475.4 |
| 60° | 2332.6 | 2411.7 | 2541.7 | 2546.8 | 2490.7 | 2442.2 | 2521.3 | 2613.0 | 2613.0 | 2521.3 | 2465.2 |
| 62.5° | 2238.3 | 2317.3 | 2432.0 | 2437.1 | 2373.4 | 2319.9 | 2411.7 | 2521.3 | 2518.7 | 2444.8 | 2386.2 |
| 65° | 2082.8 | 2156.7 | 2286.7 | 2299.5 | 2235.8 | 2179.7 | 2274.0 | 2376.0 | 2383.6 | 2317.3 | 2266.3 |
| 67.5° | 1912.0 | 1978.3 | 2075.1 | 2126.1 | 2072.6 | 2014.0 | 2100.6 | 2197.5 | 2195.0 | 2115.9 | 2062.4 |
| 70° | 1708.0 | 1769.2 | 1858.5 | 1901.8 | 1868.6 | 1812.6 | 1891.6 | 1942.6 | 1919.6 | 1881.4 | 1845.7 |
| 72.5° | 1506.6 | 1565.3 | 1649.4 | 1649.4 | 1613.7 | 1560.2 | 1583.1 | 1674.9 | 1702.9 | 1674.9 | 1652.0 |
| 75° | 1295.1 | 1346.0 | 1404.7 | 1417.4 | 1338.4 | 1241.5 | 1348.6 | 1427.6 | 1460.8 | 1448.0 | 1420.0 |
| 77.5° | 1078.4 | 1116.6 | 1203.3 | 1180.3 | 1032.5 | 981.5 | 1068.2 | 1185.4 | 1208.4 | 1200.7 | 1162.5 |
| 80° | 831.1 | 854.0 | 945.8 | 899.9 | 785.2 | 752.0 | 790.3 | 882.1 | 887.2 | 861.7 | 813.2 |
| 82.5° | 558.3 | 588.9 | 650.1 | 560.8 | 558.3 | 527.7 | 497.1 | 507.3 | 553.2 | 548.1 | 515.0 |
| 85° | 285.5 | 300.8 | 359.5 | 336.5 | 288.1 | 249.8 | 237.1 | 252.4 | 226.9 | 206.5 | 178.5 |
| 87.5° | 119.8 | 130.0 | 178.5 | 99.4 | 30.6 | 0.0 | 0.0 | 15.3 | 22.9 | 33.1 | 35.7 |
| 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-SA6E-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 |
| 2.5° | 3801.0 | 3829.1 | 3897.9 | 3984.6 | 4068.7 | 4155.4 | 4249.7 | 4308.3 | 4379.7 | 4471.5 | 4474.1 |
| 5° | 3535.9 | 3599.6 | 3699.1 | 3831.6 | 3969.3 | 4127.3 | 4310.9 | 4463.9 | 4647.4 | 4792.7 | 4851.3 |
| 7.5° | 3372.7 | 3464.5 | 3589.4 | 3757.7 | 3938.7 | 4135.0 | 4374.6 | 4632.1 | 4932.9 | 5126.7 | 5241.4 |
| 10° | 3388.0 | 3528.3 | 3653.2 | 3795.9 | 3959.1 | 4170.7 | 4479.1 | 4820.8 | 5190.4 | 5445.3 | 5588.1 |
| 12.5° | 3660.8 | 3808.7 | 3785.7 | 3778.1 | 3887.7 | 4145.2 | 4563.3 | 5012.0 | 5463.2 | 5718.1 | 5888.9 |
| 15° | 4005.0 | 4061.1 | 3844.4 | 3681.2 | 3747.5 | 4053.4 | 4609.2 | 5182.8 | 5690.1 | 6001.1 | 6169.3 |
| 17.5° | 4180.9 | 4068.7 | 3806.1 | 3561.4 | 3543.6 | 3913.2 | 4632.1 | 5356.1 | 5945.0 | 6256.0 | 6434.5 |
| 20° | 4099.3 | 3936.1 | 3714.4 | 3482.4 | 3354.9 | 3722.0 | 4619.4 | 5493.8 | 6177.0 | 6523.7 | 6669.0 |
| 22.5° | 3923.4 | 3780.6 | 3607.3 | 3385.5 | 3201.9 | 3513.0 | 4586.2 | 5631.4 | 6383.5 | 6732.7 | 6860.2 |
| 25° | 3732.2 | 3625.1 | 3482.4 | 3288.6 | 3115.3 | 3329.4 | 4563.3 | 5815.0 | 6620.6 | 6954.5 | 7036.1 |
| 27.5° | 3541.0 | 3462.0 | 3344.7 | 3194.3 | 3094.9 | 3201.9 | 4570.9 | 6054.6 | 6926.5 | 7242.6 | 7209.5 |
| 30° | 3352.4 | 3283.5 | 3201.9 | 3135.7 | 3092.3 | 3171.4 | 4550.5 | 6309.6 | 7263.0 | 7556.2 | 7359.9 |
| 32.5° | 3173.9 | 3110.2 | 3059.2 | 3069.4 | 3094.9 | 3184.1 | 4446.0 | 6541.5 | 7571.5 | 7821.3 | 7523.0 |
| 35° | 3020.9 | 2954.7 | 2954.7 | 2990.3 | 3084.7 | 3140.8 | 4175.8 | 6722.5 | 7913.1 | 8162.9 | 7755.0 |
| 37.5° | 2878.2 | 2819.5 | 2857.8 | 2916.4 | 3005.6 | 3023.5 | 3829.1 | 6898.5 | 8410.2 | 8644.7 | 8114.5 |
| 40° | 2753.3 | 2694.6 | 2763.5 | 2837.4 | 2883.3 | 2875.6 | 3477.3 | 7143.2 | 8996.5 | 9238.7 | 8591.2 |
| 42.5° | 2653.8 | 2600.3 | 2661.5 | 2755.8 | 2763.5 | 2771.1 | 3219.8 | 7377.7 | 9677.2 | 9985.7 | 9412.1 |
| 45° | 2572.3 | 2534.0 | 2564.6 | 2658.9 | 2658.9 | 2776.2 | 3059.2 | 7574.0 | 10702.0 | 11247.6 | 10918.7 |
| 47.5° | 2508.5 | 2485.6 | 2500.9 | 2531.5 | 2582.5 | 2868.0 | 2957.2 | 7724.4 | 12568.1 | 13638.8 | 13307.4 |
| 50° | 2472.8 | 2449.9 | 2470.3 | 2406.6 | 2559.5 | 2913.9 | 2924.1 | 7839.1 | 15028.2 | 16705.7 | 16295.2 |
| 52.5° | 2442.2 | 2434.6 | 2447.3 | 2299.5 | 2610.5 | 2883.3 | 2898.6 | 7686.2 | 16677.6 | 19724.1 | 20129.4 |
| 55° | 2432.0 | 2437.1 | 2376.0 | 2220.5 | 2671.7 | 2781.3 | 2822.1 | 6592.5 | 17126.3 | 22326.9 | 24843.1 |
| 57.5° | 2437.1 | 2421.9 | 2266.3 | 2228.1 | 2674.2 | 2577.4 | 2931.7 | 4703.5 | 16473.7 | 23458.8 | 29454.8 |
| 60° | 2419.3 | 2342.8 | 2133.8 | 2296.9 | 2557.0 | 2337.7 | 2852.7 | 3066.8 | 14752.9 | 22589.5 | 29722.5 |
| 62.5° | 2340.3 | 2228.1 | 2019.1 | 2335.2 | 2347.9 | 2195.0 | 2590.1 | 2363.2 | 12458.5 | 20728.5 | 27142.6 |
| 65° | 2225.6 | 2075.1 | 1922.2 | 2256.1 | 2136.3 | 2128.7 | 1947.7 | 1894.1 | 10018.8 | 18513.1 | 24695.2 |
| 67.5° | 2036.9 | 1886.5 | 1850.8 | 2075.1 | 1922.2 | 1886.5 | 1565.3 | 1570.4 | 7994.7 | 16152.5 | 22235.1 |
| 70° | 1822.8 | 1672.4 | 1700.4 | 1876.3 | 1710.6 | 1567.8 | 1267.0 | 1307.8 | 6064.8 | 13457.8 | 18918.5 |
| 72.5° | 1682.5 | 1481.2 | 1483.7 | 1652.0 | 1504.1 | 1269.6 | 1042.7 | 1078.4 | 3849.5 | 10143.7 | 15041.0 |
| 75° | 1420.0 | 1305.3 | 1249.2 | 1338.4 | 1277.2 | 989.1 | 877.0 | 869.3 | 2281.6 | 7270.7 | 11262.9 |
| 77.5° | 1185.4 | 1096.2 | 1068.2 | 1103.9 | 953.4 | 731.7 | 706.2 | 693.4 | 1292.5 | 4657.6 | 7380.3 |
| 80° | 859.1 | 836.2 | 833.6 | 851.5 | 734.2 | 537.9 | 537.9 | 540.5 | 696.0 | 2528.9 | 4160.5 |
| 82.5° | 545.6 | 596.5 | 527.7 | 586.3 | 499.7 | 382.4 | 356.9 | 405.3 | 400.2 | 1078.4 | 1753.9 |
| 85° | 226.9 | 311.0 | 290.6 | 308.5 | 237.1 | 209.0 | 224.3 | 242.2 | 232.0 | 415.5 | 683.2 |
| 87.5° | 43.3 | 51.0 | 56.1 | 53.5 | 53.5 | 66.3 | 73.9 | 89.2 | 89.2 | 119.8 | 206.5 |
| 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):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 | 4155.4 |
| 2.5° | 4570.9 | 4644.9 | 4629.6 | 4662.7 | 4619.4 | 4634.7 | 4548.0 | 4525.0 | 4509.7 | 4514.8 |
| 5° | 5040.0 | 5190.4 | 5218.5 | 5274.5 | 5236.3 | 5236.3 | 5083.3 | 4968.6 | 4927.8 | 4897.2 |
| 7.5° | 5516.7 | 5733.4 | 5876.2 | 5891.5 | 5871.1 | 5830.3 | 5608.5 | 5402.0 | 5328.1 | 5264.3 |
| 10° | 5939.9 | 6199.9 | 6360.5 | 6437.0 | 6398.8 | 6335.1 | 6059.7 | 5776.8 | 5687.5 | 5631.4 |
| 12.5° | 6263.7 | 6493.1 | 6600.2 | 6651.2 | 6646.1 | 6623.1 | 6398.8 | 6092.9 | 5998.5 | 5911.9 |
| 15° | 6472.7 | 6587.4 | 6546.6 | 6544.1 | 6579.8 | 6671.6 | 6602.7 | 6363.1 | 6253.5 | 6174.4 |
| 17.5° | 6607.8 | 6498.2 | 6317.2 | 6233.1 | 6309.6 | 6526.3 | 6684.3 | 6549.2 | 6449.8 | 6363.1 |
| 20° | 6656.3 | 6266.2 | 6003.6 | 5848.1 | 5937.4 | 6250.9 | 6641.0 | 6684.3 | 6600.2 | 6528.8 |
| 22.5° | 6600.2 | 5983.2 | 5626.3 | 5442.8 | 5529.5 | 5904.2 | 6513.5 | 6793.9 | 6737.8 | 6669.0 |
| 25° | 6462.5 | 5687.5 | 5259.2 | 5093.5 | 5187.9 | 5570.3 | 6286.6 | 6895.9 | 6898.5 | 6842.4 |
| 27.5° | 6291.7 | 5414.7 | 5001.8 | 4846.3 | 4938.0 | 5294.9 | 6064.8 | 6985.1 | 7074.4 | 7054.0 |
| 30° | 6118.4 | 5251.6 | 4879.4 | 4769.8 | 4838.6 | 5154.7 | 5837.9 | 7076.9 | 7255.4 | 7291.0 |
| 32.5° | 6039.3 | 5330.6 | 5167.5 | 5215.9 | 5126.7 | 5236.3 | 5756.4 | 7206.9 | 7474.6 | 7533.2 |
| 35° | 6143.9 | 6031.7 | 6444.7 | 6635.9 | 6319.8 | 5904.2 | 5860.9 | 7403.2 | 7783.1 | 7869.7 |
| 37.5° | 6651.2 | 7533.2 | 8150.2 | 8823.2 | 8275.1 | 7359.9 | 6378.4 | 7737.2 | 8224.1 | 8361.8 |
| 40° | 7755.0 | 8843.6 | 9957.6 | 10826.9 | 9998.4 | 8767.1 | 7362.4 | 8234.3 | 8830.8 | 8955.7 |
| 42.5° | 8795.1 | 10072.4 | 11607.0 | 12731.3 | 11655.5 | 9916.8 | 8422.9 | 9070.5 | 9631.3 | 9700.2 |
| 45° | 9814.9 | 11278.2 | 13603.2 | 15165.9 | 13705.1 | 11010.5 | 9506.4 | 10482.8 | 10906.0 | 10908.5 |
| 47.5° | 11010.5 | 12637.0 | 16106.6 | 18332.1 | 16425.2 | 12221.4 | 10523.6 | 12718.5 | 13307.4 | 13019.4 |
| 50° | 12440.7 | 13988.1 | 18683.9 | 22015.9 | 19741.9 | 13710.2 | 11816.1 | 15443.8 | 16246.8 | 15920.5 |
| 52.5° | 14355.2 | 15476.9 | 21523.9 | 25607.9 | 23356.8 | 15405.5 | 13689.8 | 19043.4 | 19308.5 | 18699.2 |
| 55° | 17049.8 | 17626.0 | 25169.4 | 30043.7 | 27392.4 | 17493.4 | 16430.3 | 23560.8 | 22818.9 | 21072.7 |
| 57.5° | 23186.0 | 21026.8 | 29849.9 | 35104.1 | 31958.2 | 21286.8 | 22436.5 | 28542.2 | 25903.6 | 22959.1 |
| 60° | 28320.4 | 25156.7 | 34181.2 | 40126.2 | 35871.4 | 25467.7 | 28075.6 | 29408.9 | 25788.9 | 22750.1 |
| 62.5° | 26589.4 | 26209.5 | 35744.0 | 40679.4 | 37207.3 | 27525.0 | 27027.9 | 27224.2 | 24106.3 | 21360.7 |
| 65° | 23328.8 | 24177.7 | 34349.5 | 38056.2 | 35726.1 | 25681.8 | 24447.9 | 25205.1 | 22181.6 | 19415.6 |
| 67.5° | 21404.1 | 22028.6 | 31869.0 | 33857.5 | 33034.0 | 23688.3 | 22441.6 | 21893.5 | 19193.8 | 16843.3 |
| 70° | 19436.0 | 19953.5 | 28386.6 | 28588.0 | 28835.3 | 20374.1 | 18350.0 | 16718.4 | 14306.8 | 12662.5 |
| 72.5° | 16794.9 | 16822.9 | 23984.0 | 22816.4 | 23285.5 | 15943.4 | 14770.7 | 12499.3 | 10414.0 | 8922.6 |
| 75° | 14090.1 | 13320.2 | 18984.8 | 15948.5 | 16889.2 | 12402.4 | 12264.8 | 9419.7 | 7854.4 | 6630.8 |
| 77.5° | 10742.8 | 9842.9 | 13868.3 | 10487.9 | 11862.0 | 8259.8 | 9220.9 | 6388.6 | 5526.9 | 4412.9 |
| 80° | 7212.0 | 6651.2 | 7663.2 | 5919.5 | 7760.1 | 5692.6 | 6013.8 | 3620.0 | 3138.2 | 2434.6 |
| 82.5° | 3803.6 | 3247.8 | 4736.6 | 3510.4 | 4680.5 | 3128.0 | 2256.1 | 1119.2 | 953.4 | 769.9 |
| 85° | 1473.5 | 1705.5 | 2322.4 | 1249.2 | 1815.1 | 1116.6 | 652.6 | 277.9 | 232.0 | 175.9 |
| 87.5° | 285.5 | 441.0 | 242.2 | 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 |

(END OF REPORT)