

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: P643429

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)  
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-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

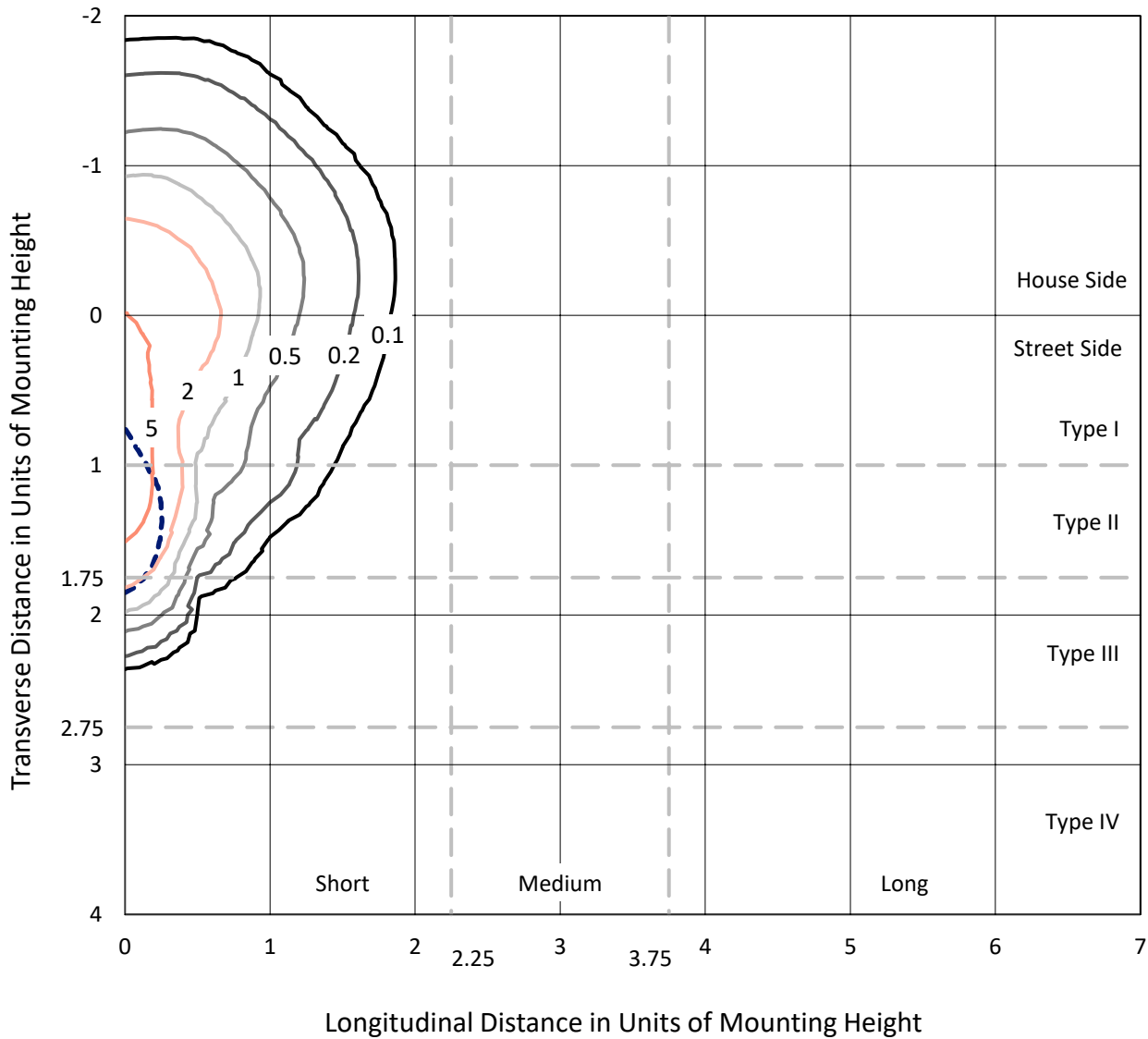
Lumens per Lamp: N/A  
Luminaire Lumens: 19068.2 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

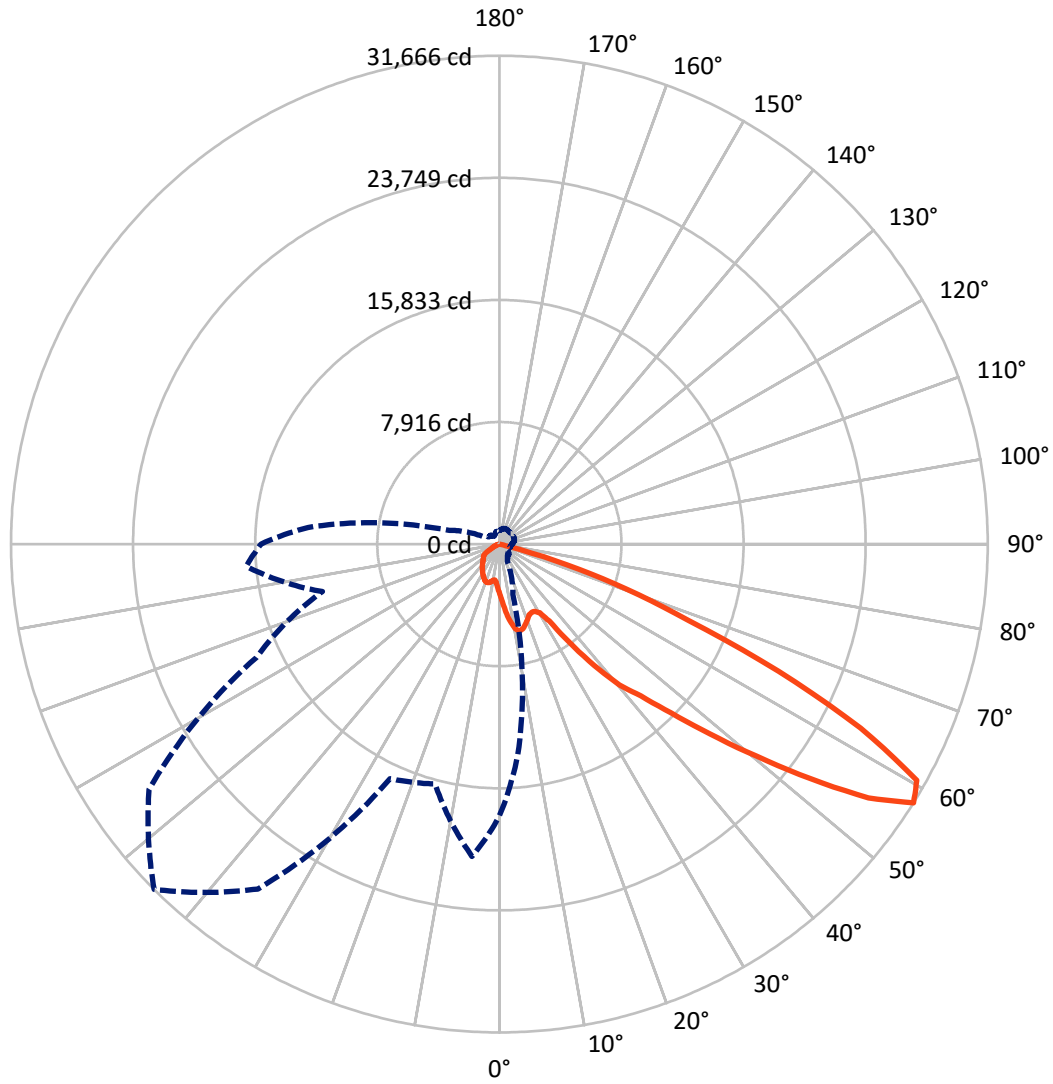
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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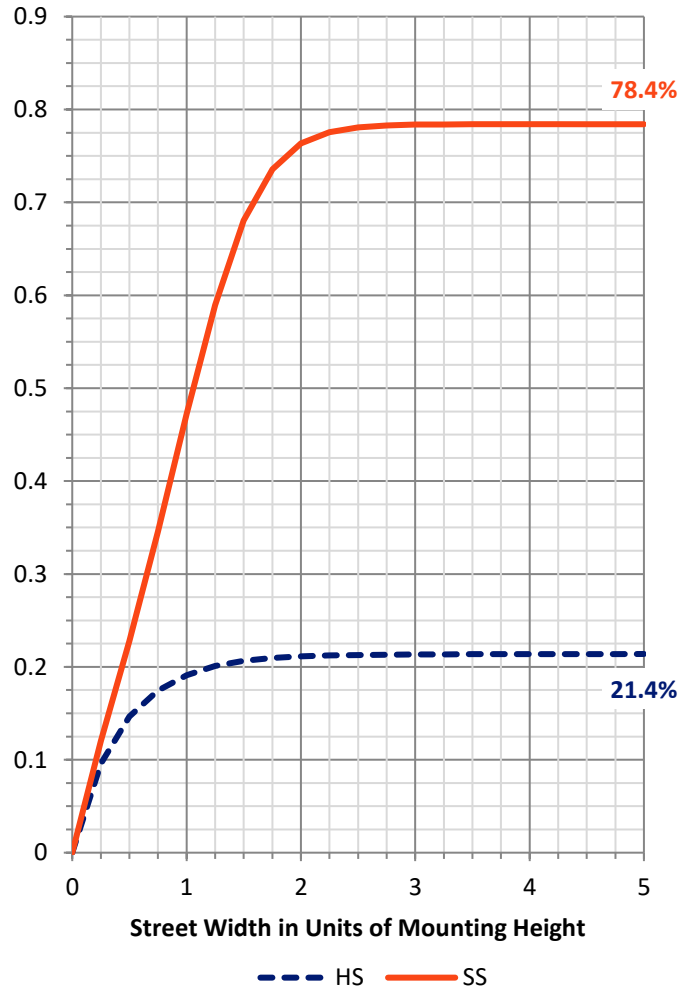
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4107.9   | 0.0    | 4107.9  |
|                    | % Fixture | 21.5     | 0.0    | 21.5    |
| <b>Street Side</b> | Lumens    | 14960.3  | 0.0    | 14960.3 |
|                    | % Fixture | 78.5     | 0.0    | 78.5    |
| <b>Total</b>       | Lumens    | 19068.2  | 0.0    | 19068.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 320.2   | 1.7       |
| 10°-20°   | 1053.7  | 5.5       |
| 20°-30°   | 1710.1  | 9.0       |
| 30°-40°   | 2624.6  | 13.8      |
| 40°-50°   | 4191.6  | 22.0      |
| 50°-60°   | 5869.0  | 30.8      |
| 60°-70°   | 3009.2  | 15.8      |
| 70°-80°   | 289.7   | 1.5       |
| 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°    | 19068.2 | 100.0     |
| 0°-180°   | 19068.2 | 100.0     |

**Coefficient of Utilization**



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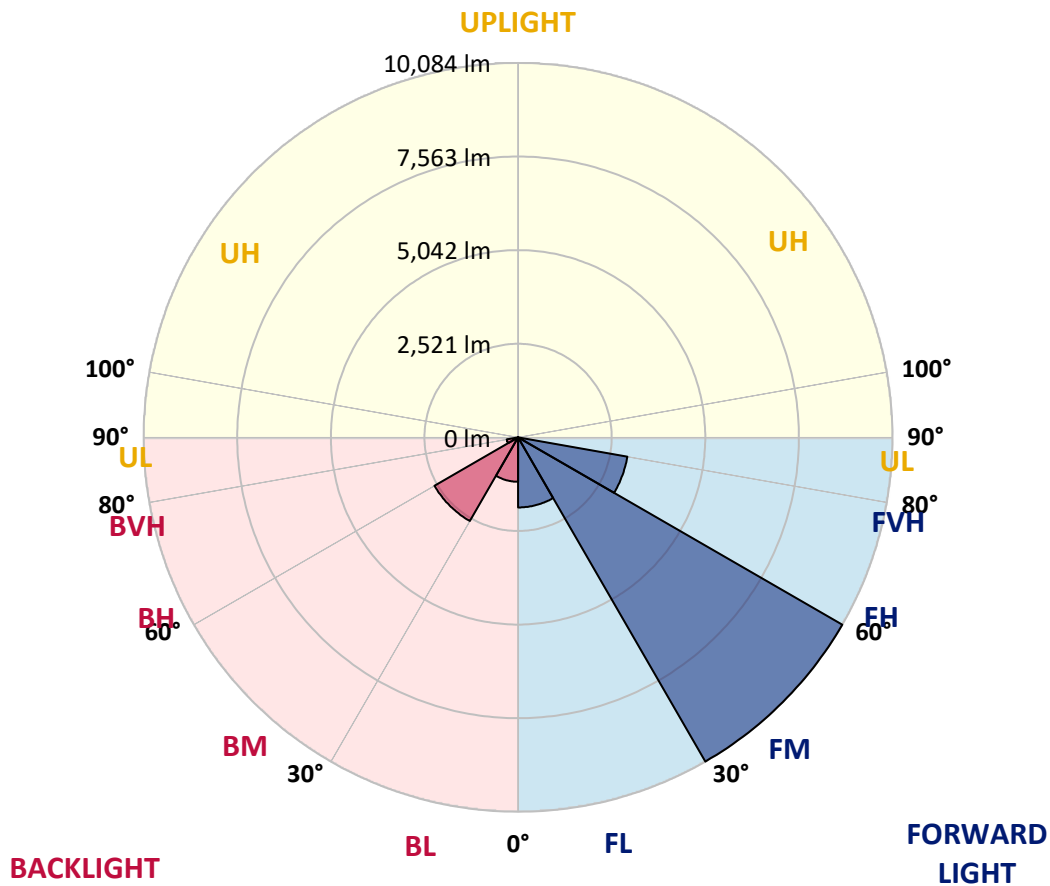
CATALOG NUMBER: GWS-SA6E-830-U-SLL-W-GRSBK

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1887.9  | 9.9       |                         |      |         |
| FM (30°-60°)   | 10083.7 | 52.9      |                         |      |         |
| FH (60°-80°)   | 2988.7  | 15.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 0.0     | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 1196.2  | 6.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 2601.5  | 13.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 310.2   | 1.6       | B1/500                  |      | G1/500  |
| 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: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3240.0  | 3240.0  | 3240.0  | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 |
| 2.5°  | 3599.4  | 3591.8  | 3566.3  | 3479.6 | 3426.1 | 3341.9 | 3280.8 | 3201.7 | 3115.1 | 3061.5 | 3008.0 |
| 5°    | 3981.8  | 3961.4  | 3892.6  | 3693.7 | 3540.8 | 3375.1 | 3242.5 | 3097.2 | 2941.7 | 2839.8 | 2745.4 |
| 7.5°  | 4348.8  | 4318.3  | 4226.5  | 3890.0 | 3658.0 | 3421.0 | 3232.3 | 3020.7 | 2801.5 | 2648.6 | 2531.3 |
| 10°   | 4708.3  | 4639.5  | 4494.2  | 4081.2 | 3767.6 | 3482.1 | 3260.4 | 3018.2 | 2760.7 | 2567.0 | 2437.0 |
| 12.5° | 5004.0  | 4953.0  | 4754.2  | 4262.2 | 3859.4 | 3494.9 | 3222.1 | 2997.8 | 2824.5 | 2694.5 | 2574.6 |
| 15°   | 5258.9  | 5202.8  | 5014.2  | 4425.3 | 3938.4 | 3443.9 | 3061.5 | 2865.2 | 2893.3 | 2944.3 | 2842.3 |
| 17.5° | 5493.4  | 5434.8  | 5230.9  | 4560.4 | 3969.0 | 3319.0 | 2837.2 | 2742.9 | 2898.4 | 3089.6 | 3051.3 |
| 20°   | 5735.6  | 5669.3  | 5419.5  | 4670.0 | 3958.8 | 3122.7 | 2610.3 | 2638.4 | 2857.6 | 3076.8 | 3097.2 |
| 22.5° | 6018.5  | 5949.7  | 5659.1  | 4810.2 | 3951.2 | 2888.2 | 2414.0 | 2546.6 | 2781.1 | 2967.2 | 3002.9 |
| 25°   | 6393.3  | 6311.7  | 5993.1  | 5016.7 | 3971.6 | 2674.1 | 2273.8 | 2457.4 | 2651.1 | 2819.4 | 2839.8 |
| 27.5° | 6887.8  | 6783.3  | 6378.0  | 5271.6 | 4014.9 | 2505.8 | 2212.7 | 2335.0 | 2485.4 | 2635.8 | 2653.7 |
| 30°   | 7532.7  | 7400.2  | 6819.0  | 5493.4 | 3994.5 | 2388.6 | 2171.9 | 2212.7 | 2301.9 | 2424.2 | 2426.8 |
| 32.5° | 8287.3  | 8106.3  | 7313.5  | 5684.6 | 3818.6 | 2301.9 | 2115.8 | 2087.8 | 2108.1 | 2202.5 | 2220.3 |
| 35°   | 9174.4  | 8939.9  | 7859.0  | 5865.6 | 3497.4 | 2133.6 | 2013.8 | 1919.5 | 1911.9 | 1957.7 | 2001.1 |
| 37.5° | 10191.5 | 9911.1  | 8547.3  | 6097.6 | 3117.6 | 1957.7 | 1863.4 | 1769.1 | 1728.3 | 1751.3 | 1817.5 |
| 40°   | 11129.6 | 10818.6 | 9266.2  | 6378.0 | 2730.1 | 1799.7 | 1687.5 | 1590.7 | 1542.2 | 1549.9 | 1631.5 |
| 42.5° | 12230.8 | 11909.6 | 10145.6 | 6745.1 | 2408.9 | 1692.6 | 1504.0 | 1404.6 | 1340.9 | 1376.5 | 1470.9 |
| 45°   | 13903.1 | 13538.5 | 11427.8 | 7063.7 | 2154.0 | 1667.1 | 1343.4 | 1203.2 | 1172.6 | 1233.8 | 1346.0 |
| 47.5° | 16187.1 | 15741.0 | 13189.3 | 7257.4 | 1937.4 | 1690.1 | 1231.2 | 1040.1 | 1047.7 | 1116.5 | 1228.7 |
| 50°   | 18453.3 | 17971.5 | 15226.1 | 7002.5 | 1758.9 | 1644.2 | 1175.2 | 912.6  | 961.0  | 1022.2 | 1124.2 |
| 52.5° | 20010.8 | 19383.7 | 16217.7 | 6265.8 | 1595.8 | 1470.9 | 1170.1 | 792.8  | 884.6  | 904.9  | 991.6  |
| 55°   | 20072.0 | 19299.6 | 15710.4 | 4940.3 | 1374.0 | 1241.4 | 1116.5 | 693.4  | 800.4  | 808.1  | 882.0  |
| 57.5° | 17594.2 | 16895.8 | 13729.7 | 3392.9 | 1221.0 | 910.0  | 889.7  | 606.7  | 657.7  | 721.4  | 767.3  |
| 60°   | 13385.6 | 12791.6 | 10268.0 | 1555.0 | 927.9  | 578.7  | 609.2  | 522.6  | 492.0  | 586.3  | 632.2  |
| 62.5° | 8198.1  | 7818.2  | 6158.7  | 688.3  | 591.4  | 308.4  | 369.6  | 415.5  | 369.6  | 405.3  | 443.6  |
| 65°   | 3255.3  | 3087.0  | 2337.6  | 293.2  | 242.2  | 155.5  | 168.2  | 242.2  | 260.0  | 285.5  | 321.2  |
| 67.5° | 565.9   | 535.3   | 392.6   | 130.0  | 99.4   | 94.3   | 81.6   | 112.2  | 158.0  | 175.9  | 203.9  |
| 70°   | 73.9    | 71.4    | 63.7    | 53.5   | 51.0   | 45.9   | 35.7   | 71.4   | 107.1  | 112.2  | 130.0  |
| 72.5° | 17.8    | 15.3    | 15.3    | 12.7   | 15.3   | 5.1    | 5.1    | 38.2   | 76.5   | 79.0   | 91.8   |
| 75°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 12.7   | 48.4   | 53.5   | 63.7   |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 |
| 2.5°  | 2964.7 | 2913.7 | 2895.8 | 2870.3 | 2837.2 | 2847.4 | 2801.5 | 2786.2 | 2809.2 | 2839.8 | 2832.1 |
| 5°    | 2694.5 | 2638.4 | 2600.1 | 2541.5 | 2531.3 | 2508.4 | 2493.1 | 2472.7 | 2498.2 | 2533.9 | 2541.5 |
| 7.5°  | 2480.3 | 2431.9 | 2393.7 | 2375.8 | 2363.1 | 2352.9 | 2322.3 | 2307.0 | 2307.0 | 2322.3 | 2335.0 |
| 10°   | 2388.6 | 2352.9 | 2345.2 | 2350.3 | 2370.7 | 2368.2 | 2340.1 | 2319.7 | 2294.2 | 2281.5 | 2296.8 |
| 12.5° | 2516.0 | 2457.4 | 2447.2 | 2449.7 | 2475.2 | 2472.7 | 2442.1 | 2416.6 | 2411.5 | 2416.6 | 2465.0 |
| 15°   | 2732.7 | 2643.5 | 2577.2 | 2564.4 | 2577.2 | 2572.1 | 2549.2 | 2533.9 | 2541.5 | 2615.4 | 2697.0 |
| 17.5° | 2926.4 | 2788.8 | 2669.0 | 2623.1 | 2620.5 | 2612.9 | 2589.9 | 2584.8 | 2623.1 | 2760.7 | 2880.5 |
| 20°   | 2982.5 | 2847.4 | 2676.6 | 2618.0 | 2605.2 | 2597.6 | 2572.1 | 2579.7 | 2628.2 | 2793.9 | 2895.8 |
| 22.5° | 2908.6 | 2778.6 | 2600.1 | 2541.5 | 2531.3 | 2528.8 | 2503.3 | 2513.5 | 2554.2 | 2699.5 | 2783.7 |
| 25°   | 2768.4 | 2658.8 | 2472.7 | 2421.7 | 2421.7 | 2416.6 | 2393.7 | 2398.8 | 2424.2 | 2551.7 | 2633.3 |
| 27.5° | 2597.6 | 2493.1 | 2337.6 | 2286.6 | 2294.2 | 2301.9 | 2273.8 | 2266.2 | 2286.6 | 2406.4 | 2454.8 |
| 30°   | 2401.3 | 2327.4 | 2205.0 | 2159.1 | 2156.6 | 2187.2 | 2148.9 | 2138.7 | 2166.8 | 2261.1 | 2271.3 |
| 32.5° | 2210.1 | 2174.4 | 2087.8 | 2052.1 | 2054.6 | 2059.7 | 2039.3 | 2039.3 | 2064.8 | 2115.8 | 2113.2 |
| 35°   | 2024.0 | 2001.1 | 1985.8 | 1960.3 | 1957.7 | 1947.6 | 1947.6 | 1952.6 | 1980.7 | 1998.5 | 1965.4 |
| 37.5° | 1845.6 | 1868.5 | 1886.4 | 1860.9 | 1840.5 | 1840.5 | 1840.5 | 1863.4 | 1888.9 | 1881.3 | 1825.2 |
| 40°   | 1687.5 | 1736.0 | 1792.1 | 1764.0 | 1715.6 | 1713.0 | 1723.2 | 1761.5 | 1799.7 | 1753.8 | 1702.8 |
| 42.5° | 1552.4 | 1613.6 | 1692.6 | 1677.3 | 1623.8 | 1616.2 | 1623.8 | 1672.2 | 1702.8 | 1644.2 | 1588.1 |
| 45°   | 1419.9 | 1496.4 | 1590.7 | 1590.7 | 1532.0 | 1524.4 | 1526.9 | 1590.7 | 1608.5 | 1539.7 | 1468.3 |
| 47.5° | 1307.7 | 1391.8 | 1491.3 | 1491.3 | 1442.8 | 1427.5 | 1440.3 | 1506.5 | 1519.3 | 1422.4 | 1356.1 |
| 50°   | 1200.6 | 1292.4 | 1402.0 | 1394.4 | 1361.2 | 1348.5 | 1371.4 | 1442.8 | 1427.5 | 1320.5 | 1251.6 |
| 52.5° | 1065.5 | 1162.4 | 1312.8 | 1320.5 | 1302.6 | 1305.2 | 1333.2 | 1379.1 | 1335.8 | 1205.7 | 1147.1 |
| 55°   | 943.2  | 1042.6 | 1193.0 | 1233.8 | 1233.8 | 1231.2 | 1244.0 | 1279.7 | 1244.0 | 1088.5 | 1017.1 |
| 57.5° | 810.6  | 894.8  | 1019.7 | 1029.9 | 1037.5 | 1009.5 | 1027.3 | 1075.7 | 1057.9 | 925.3  | 884.6  |
| 60°   | 665.3  | 736.7  | 808.1  | 815.7  | 782.6  | 724.0  | 757.1  | 813.2  | 825.9  | 726.5  | 680.6  |
| 62.5° | 471.6  | 540.4  | 624.5  | 624.5  | 591.4  | 532.8  | 576.1  | 624.5  | 606.7  | 504.7  | 476.7  |
| 65°   | 351.8  | 415.5  | 479.2  | 507.3  | 479.2  | 438.5  | 471.6  | 507.3  | 479.2  | 395.1  | 354.3  |
| 67.5° | 226.9  | 270.2  | 308.4  | 331.4  | 336.5  | 331.4  | 346.7  | 336.5  | 303.3  | 247.3  | 224.3  |
| 70°   | 137.7  | 160.6  | 181.0  | 201.4  | 216.7  | 224.3  | 232.0  | 209.0  | 175.9  | 145.3  | 137.7  |
| 72.5° | 99.4   | 119.8  | 137.7  | 152.9  | 170.8  | 175.9  | 175.9  | 160.6  | 130.0  | 102.0  | 94.3   |
| 75°   | 68.8   | 86.7   | 102.0  | 112.2  | 127.5  | 132.6  | 132.6  | 119.8  | 96.9   | 73.9   | 66.3   |
| 77.5° | 2.5    | 17.8   | 17.8   | 15.3   | 20.4   | 25.5   | 25.5   | 30.6   | 28.0   | 20.4   | 17.8   |
| 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-SA6E-830-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0 | 3240.0  | 3240.0  | 3240.0  |
| 2.5°  | 2847.4 | 2939.2 | 2964.7 | 3059.0 | 3143.1 | 3227.2 | 3329.2 | 3390.4 | 3482.1  | 3545.9  | 3581.6  |
| 5°    | 2567.0 | 2643.5 | 2735.2 | 2875.4 | 3020.7 | 3181.3 | 3375.1 | 3543.3 | 3754.9  | 3910.4  | 3961.4  |
| 7.5°  | 2363.1 | 2462.5 | 2569.5 | 2745.4 | 2944.3 | 3158.4 | 3431.2 | 3706.5 | 4030.2  | 4241.8  | 4376.9  |
| 10°   | 2324.8 | 2426.8 | 2569.5 | 2742.9 | 2951.9 | 3196.6 | 3530.6 | 3887.5 | 4292.8  | 4550.2  | 4703.2  |
| 12.5° | 2508.4 | 2618.0 | 2679.2 | 2758.2 | 2916.2 | 3189.0 | 3617.2 | 4071.0 | 4547.7  | 4828.1  | 4991.2  |
| 15°   | 2778.6 | 2875.4 | 2776.0 | 2676.6 | 2778.6 | 3107.4 | 3665.7 | 4223.9 | 4772.0  | 5095.8  | 5264.0  |
| 17.5° | 2964.7 | 2972.3 | 2755.6 | 2544.1 | 2572.1 | 2959.6 | 3683.5 | 4376.9 | 5011.6  | 5350.7  | 5526.6  |
| 20°   | 2946.8 | 2885.6 | 2666.4 | 2431.9 | 2345.2 | 2768.4 | 3663.1 | 4512.0 | 5253.8  | 5608.1  | 5781.5  |
| 22.5° | 2809.2 | 2737.8 | 2551.7 | 2322.3 | 2154.0 | 2541.5 | 3627.4 | 4634.4 | 5475.6  | 5878.3  | 6041.5  |
| 25°   | 2643.5 | 2567.0 | 2414.0 | 2212.7 | 2031.7 | 2322.3 | 3599.4 | 4802.6 | 5756.0  | 6230.1  | 6357.6  |
| 27.5° | 2449.7 | 2383.5 | 2253.4 | 2108.1 | 1980.7 | 2156.6 | 3591.8 | 5024.4 | 6095.0  | 6658.4  | 6747.6  |
| 30°   | 2261.1 | 2199.9 | 2098.0 | 2013.8 | 1960.3 | 2059.7 | 3566.3 | 5261.4 | 6500.3  | 7150.4  | 7247.2  |
| 32.5° | 2080.1 | 2018.9 | 1955.2 | 1942.5 | 1945.0 | 2024.0 | 3479.6 | 5496.0 | 6982.1  | 7864.1  | 7935.5  |
| 35°   | 1924.6 | 1853.2 | 1827.7 | 1858.3 | 1914.4 | 1962.8 | 3234.9 | 5689.7 | 7499.6  | 8641.6  | 8700.2  |
| 37.5° | 1776.8 | 1705.4 | 1702.8 | 1776.8 | 1837.9 | 1868.5 | 2946.8 | 5880.9 | 8198.1  | 9431.9  | 9505.8  |
| 40°   | 1641.7 | 1570.3 | 1595.8 | 1685.0 | 1733.4 | 1748.7 | 2597.6 | 6171.5 | 8937.3  | 10265.4 | 10224.6 |
| 42.5° | 1526.9 | 1453.0 | 1468.3 | 1583.0 | 1626.4 | 1667.1 | 2276.4 | 6413.7 | 9648.5  | 11055.7 | 11042.9 |
| 45°   | 1414.8 | 1358.7 | 1348.5 | 1473.4 | 1511.6 | 1674.8 | 2041.9 | 6599.7 | 10563.7 | 12062.6 | 12083.0 |
| 47.5° | 1305.2 | 1261.8 | 1264.4 | 1317.9 | 1412.2 | 1713.0 | 1843.0 | 6722.1 | 11891.8 | 13658.3 | 13304.0 |
| 50°   | 1205.7 | 1172.6 | 1200.6 | 1139.5 | 1348.5 | 1664.6 | 1672.2 | 6696.6 | 13375.4 | 15187.8 | 14476.6 |
| 52.5° | 1096.1 | 1088.5 | 1101.2 | 953.4  | 1246.5 | 1468.3 | 1511.6 | 6357.6 | 14071.3 | 16233.0 | 15827.7 |
| 55°   | 984.0  | 981.4  | 879.5  | 762.2  | 1042.6 | 1172.6 | 1295.0 | 5304.8 | 14048.4 | 16788.7 | 17280.7 |
| 57.5° | 851.4  | 831.0  | 667.9  | 622.0  | 810.6  | 815.7  | 1180.3 | 3474.5 | 12450.0 | 15458.0 | 16477.7 |
| 60°   | 644.9  | 629.6  | 489.4  | 504.7  | 565.9  | 522.6  | 940.6  | 1730.9 | 9304.4  | 12042.2 | 13191.9 |
| 62.5° | 446.1  | 425.7  | 364.5  | 390.0  | 364.5  | 298.3  | 576.1  | 856.5  | 5636.2  | 7604.1  | 8646.7  |
| 65°   | 326.3  | 303.3  | 249.8  | 214.1  | 170.8  | 170.8  | 219.2  | 328.8  | 2182.1  | 3232.3  | 3897.7  |
| 67.5° | 201.4  | 191.2  | 147.9  | 107.1  | 104.5  | 112.2  | 114.7  | 163.1  | 351.8   | 560.8   | 685.7   |
| 70°   | 130.0  | 119.8  | 99.4   | 68.8   | 63.7   | 66.3   | 68.8   | 76.5   | 89.2    | 96.9    | 117.3   |
| 72.5° | 89.2   | 84.1   | 71.4   | 38.2   | 30.6   | 33.1   | 35.7   | 35.7   | 43.3    | 40.8    | 48.4    |
| 75°   | 63.7   | 58.6   | 51.0   | 17.8   | 10.2   | 12.7   | 15.3   | 12.7   | 15.3    | 10.2    | 12.7    |
| 77.5° | 17.8   | 17.8   | 12.7   | 2.5    | 0.0    | 2.5    | 5.1    | 5.1    | 2.5     | 0.0     | 0.0     |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5    | 2.5    | 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     |



REPORT NUMBER: P643429

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

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|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3240.0  | 3240.0  | 3240.0  | 3240.0  | 3240.0  | 3240.0  | 3240.0  | 3240.0  | 3240.0  | 3240.0  |
| 2.5°  | 3673.3  | 3732.0  | 3754.9  | 3721.8  | 3749.8  | 3703.9  | 3686.1  | 3617.2  | 3612.1  | 3599.4  |
| 5°    | 4167.9  | 4300.4  | 4379.4  | 4427.9  | 4371.8  | 4310.6  | 4218.8  | 4060.8  | 4012.4  | 3981.8  |
| 7.5°  | 4654.7  | 4861.2  | 4996.3  | 5060.1  | 5044.8  | 4919.9  | 4754.2  | 4489.1  | 4394.7  | 4348.8  |
| 10°   | 5077.9  | 5330.3  | 5493.4  | 5572.4  | 5539.3  | 5429.7  | 5192.6  | 4861.2  | 4736.3  | 4708.3  |
| 12.5° | 5373.6  | 5605.6  | 5717.7  | 5786.6  | 5789.1  | 5745.8  | 5521.5  | 5187.5  | 5039.7  | 5004.0  |
| 15°   | 5559.7  | 5659.1  | 5661.7  | 5702.4  | 5773.8  | 5870.7  | 5766.2  | 5470.5  | 5312.4  | 5258.9  |
| 17.5° | 5677.0  | 5567.3  | 5455.2  | 5465.4  | 5582.6  | 5840.1  | 5947.2  | 5720.3  | 5552.0  | 5493.4  |
| 20°   | 5761.1  | 5414.4  | 5205.4  | 5207.9  | 5327.7  | 5717.7  | 6072.1  | 5962.5  | 5789.1  | 5735.6  |
| 22.5° | 5814.6  | 5279.3  | 4981.0  | 4973.4  | 5100.8  | 5572.4  | 6186.8  | 6250.5  | 6079.7  | 6018.5  |
| 25°   | 5924.2  | 5215.6  | 4845.9  | 4889.3  | 5001.4  | 5526.6  | 6342.3  | 6632.9  | 6474.8  | 6393.3  |
| 27.5° | 6120.5  | 5279.3  | 4833.2  | 4932.6  | 5060.1  | 5661.7  | 6612.5  | 7142.7  | 6979.6  | 6887.8  |
| 30°   | 6459.5  | 5518.9  | 5029.5  | 5167.1  | 5320.1  | 6016.0  | 7066.2  | 7853.9  | 7619.4  | 7532.7  |
| 32.5° | 7005.1  | 6016.0  | 5636.2  | 5931.9  | 6079.7  | 6597.2  | 7746.9  | 8651.8  | 8460.6  | 8287.3  |
| 35°   | 7757.1  | 7150.4  | 7107.0  | 7795.3  | 7759.6  | 7698.4  | 8583.0  | 9630.7  | 9342.6  | 9174.4  |
| 37.5° | 8792.0  | 8975.6  | 9296.8  | 9979.9  | 9957.0  | 9490.5  | 9681.7  | 10556.0 | 10408.2 | 10191.5 |
| 40°   | 10084.4 | 10474.5 | 11020.0 | 11998.8 | 11693.0 | 11106.6 | 11030.2 | 11504.3 | 11384.5 | 11129.6 |
| 42.5° | 10846.6 | 11519.6 | 12559.7 | 13439.1 | 13194.4 | 12169.6 | 12083.0 | 12771.2 | 12508.7 | 12230.8 |
| 45°   | 11201.0 | 12371.0 | 14410.3 | 15600.8 | 14859.0 | 12875.8 | 12842.6 | 14423.1 | 14275.2 | 13903.1 |
| 47.5° | 11364.1 | 13230.1 | 16577.1 | 18379.4 | 16992.6 | 13495.2 | 13375.4 | 16819.3 | 16625.6 | 16187.1 |
| 50°   | 11545.1 | 14415.4 | 19187.5 | 21598.9 | 19569.8 | 14196.2 | 14282.9 | 19052.3 | 18970.8 | 18453.3 |
| 52.5° | 11942.8 | 15669.6 | 22401.9 | 25279.9 | 22695.1 | 15294.9 | 15840.4 | 21157.9 | 20607.3 | 20010.8 |
| 55°   | 12539.3 | 17036.0 | 25746.4 | 29039.9 | 25884.1 | 16770.9 | 17525.4 | 22277.0 | 20732.2 | 20072.0 |
| 57.5° | 11879.0 | 17377.6 | 27727.1 | 31665.5 | 27298.8 | 16776.0 | 16100.4 | 20337.1 | 18234.1 | 17594.2 |
| 60°   | 9426.8  | 16166.7 | 26964.9 | 31097.1 | 26093.1 | 14897.2 | 12327.7 | 15878.7 | 13813.8 | 13385.6 |
| 62.5° | 6372.9  | 13558.9 | 23737.7 | 26299.6 | 22333.1 | 11718.4 | 8012.0  | 10326.6 | 8552.4  | 8198.1  |
| 65°   | 3492.3  | 10115.0 | 19179.8 | 19896.1 | 17479.5 | 8185.3  | 4122.0  | 4481.4  | 3413.3  | 3255.3  |
| 67.5° | 963.6   | 7040.8  | 14112.1 | 13199.5 | 12264.0 | 5330.3  | 1065.5  | 800.4   | 571.0   | 565.9   |
| 70°   | 242.2   | 4657.3  | 8455.5  | 8715.5  | 7520.0  | 3413.3  | 203.9   | 96.9    | 76.5    | 73.9    |
| 72.5° | 102.0   | 2003.6  | 4012.4  | 4611.4  | 3849.2  | 1580.5  | 73.9    | 28.0    | 22.9    | 17.8    |
| 75°   | 12.7    | 160.6   | 341.6   | 517.5   | 354.3   | 170.8   | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 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     |
| 85°   | 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     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)