

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: P643434

Luminaire Tested: GWS-SA6E-830-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-830-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

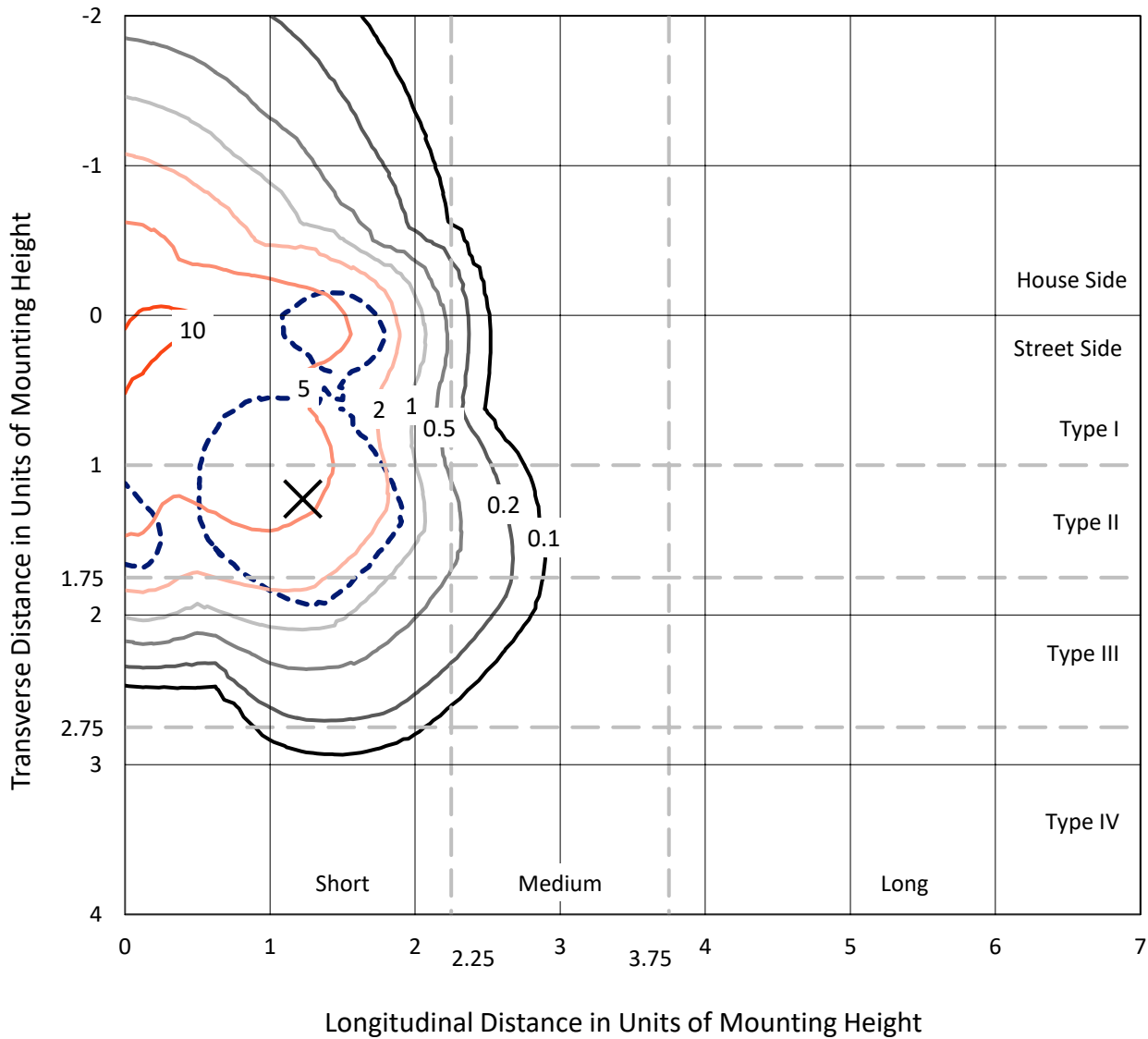
Lumens per Lamp: N/A  
Luminaire Lumens: 27822.2 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

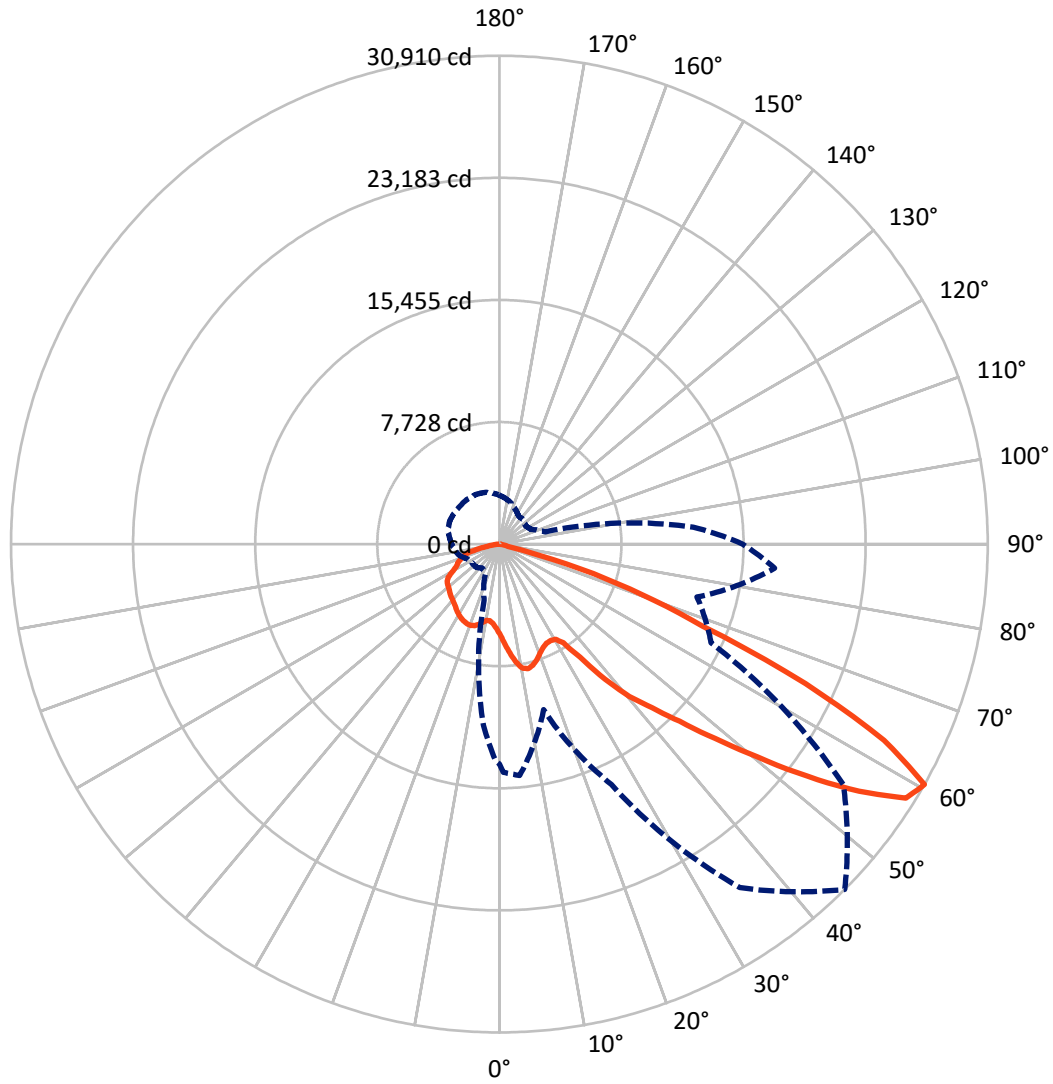
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9752.7   | 0.0    | 9752.7  |
|                    | % Fixture | 35.1     | 0.0    | 35.1    |
| <b>Street Side</b> | Lumens    | 18069.5  | 0.0    | 18069.5 |
|                    | % Fixture | 64.9     | 0.0    | 64.9    |
| <b>Total</b>       | Lumens    | 27822.2  | 0.0    | 27822.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 557.6   | 2.0       |
| 10°-20°   | 1762.1  | 6.3       |
| 20°-30°   | 2862.4  | 10.3      |
| 30°-40°   | 4036.8  | 14.5      |
| 40°-50°   | 5578.8  | 20.1      |
| 50°-60°   | 7181.6  | 25.8      |
| 60°-70°   | 4550.3  | 16.4      |
| 70°-80°   | 1167.6  | 4.2       |
| 80°-90°   | 124.9   | 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°    | 27822.2 | 100.0     |
| 0°-180°   | 27822.2 | 100.0     |

**Coefficient of Utilization**



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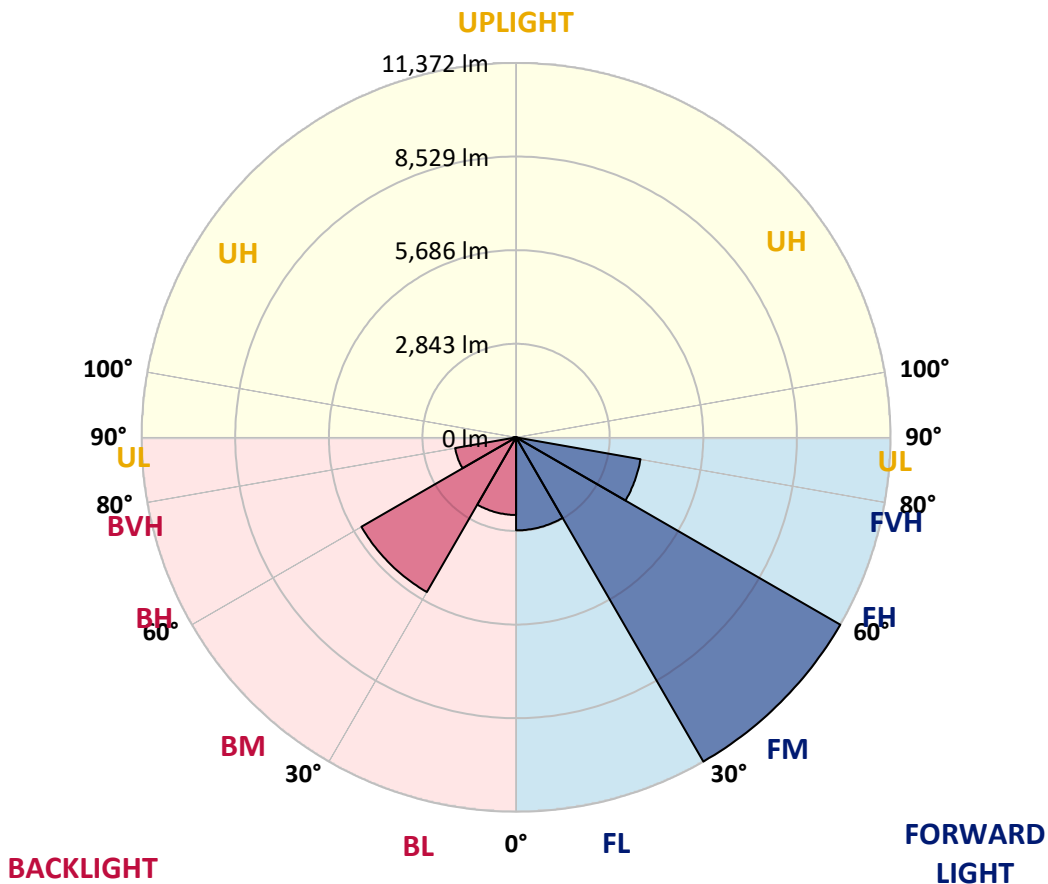
CATALOG NUMBER: GWS-SA6E-830-U-SLR-W-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2825.0  | 10.2      |                         |      |         |
| FM (30°-60°)   | 11372.1 | 40.9      |                         |      |         |
| FH (60°-80°)   | 3838.5  | 13.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 33.9    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2357.2  | 8.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 5425.1  | 19.5      | B4/8500                 |      |         |
| BH (60°-80°)   | 1879.4  | 6.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 90.9    | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5715.5  | 5715.5  | 5715.5  | 5715.5  | 5715.5  | 5715.5  | 5715.5  | 5715.5  | 5715.5  | 5715.5  | 5715.5  |
| 2.5°  | 5978.1  | 6018.9  | 6044.4  | 6092.8  | 6179.5  | 6227.9  | 6281.4  | 6222.8  | 6238.1  | 6230.5  | 6136.1  |
| 5°    | 6332.4  | 6380.9  | 6447.1  | 6589.9  | 6750.5  | 6839.7  | 6923.9  | 6911.1  | 6832.1  | 6699.5  | 6605.2  |
| 7.5°  | 6663.8  | 6719.9  | 6834.6  | 7066.6  | 7303.7  | 7441.4  | 7543.3  | 7477.1  | 7410.8  | 7201.7  | 6964.6  |
| 10°   | 6923.9  | 6957.0  | 7112.5  | 7423.5  | 7698.8  | 7854.3  | 7979.3  | 7964.0  | 7872.2  | 7637.7  | 7319.0  |
| 12.5° | 7168.6  | 7191.5  | 7359.8  | 7670.8  | 7918.1  | 7986.9  | 8088.9  | 8122.0  | 8091.4  | 7915.5  | 7602.0  |
| 15°   | 7431.2  | 7474.5  | 7630.0  | 7867.1  | 7979.3  | 7907.9  | 7943.6  | 8035.3  | 8122.0  | 8122.0  | 7834.0  |
| 17.5° | 7675.9  | 7714.1  | 7872.2  | 7974.2  | 7867.1  | 7678.4  | 7688.6  | 7805.9  | 8012.4  | 8229.1  | 8045.5  |
| 20°   | 7892.6  | 7928.3  | 8083.8  | 7986.9  | 7647.9  | 7372.5  | 7364.9  | 7507.6  | 7841.6  | 8297.9  | 8272.4  |
| 22.5° | 8129.7  | 8180.7  | 8310.7  | 7997.1  | 7443.9  | 7094.7  | 7092.1  | 7240.0  | 7691.2  | 8366.8  | 8532.5  |
| 25°   | 8466.2  | 8545.2  | 8611.5  | 8086.3  | 7334.3  | 6913.7  | 6946.8  | 7087.0  | 7642.8  | 8478.9  | 8917.4  |
| 27.5° | 8965.8  | 9029.6  | 9024.5  | 8272.4  | 7329.2  | 6839.7  | 6908.6  | 7071.7  | 7729.4  | 8677.8  | 9322.7  |
| 30°   | 9506.3  | 9539.4  | 9485.9  | 8532.5  | 7446.5  | 6885.6  | 6987.6  | 7181.3  | 7948.7  | 9006.6  | 9919.3  |
| 32.5° | 10105.4 | 10146.2 | 10044.2 | 8922.5  | 7719.2  | 7224.7  | 7449.0  | 7543.3  | 8257.1  | 9480.8  | 10551.5 |
| 35°   | 10793.7 | 10872.7 | 10661.1 | 9437.5  | 8522.3  | 8461.1  | 8787.4  | 8665.0  | 8912.3  | 10041.6 | 11227.0 |
| 37.5° | 11517.7 | 11520.2 | 11216.9 | 10199.7 | 10097.7 | 10202.2 | 10854.9 | 10472.5 | 10301.7 | 10666.2 | 11915.4 |
| 40°   | 12132.0 | 12116.7 | 11650.2 | 11227.0 | 11469.2 | 11884.8 | 12672.5 | 12086.2 | 11637.5 | 11504.9 | 12486.4 |
| 42.5° | 12746.4 | 12690.3 | 12218.7 | 11879.7 | 12415.0 | 13269.0 | 14158.7 | 13439.8 | 12494.0 | 12267.2 | 13049.8 |
| 45°   | 13531.6 | 13513.8 | 12945.3 | 12139.7 | 13269.0 | 14819.0 | 15999.3 | 14834.3 | 13001.3 | 12710.7 | 13987.9 |
| 47.5° | 14798.6 | 14711.9 | 13654.0 | 12119.3 | 14069.5 | 16883.9 | 18375.2 | 16590.7 | 13355.7 | 12720.9 | 15502.2 |
| 50°   | 16037.5 | 15930.5 | 14500.3 | 12116.7 | 14895.5 | 19025.3 | 21179.5 | 18724.5 | 13717.7 | 12782.1 | 17042.0 |
| 52.5° | 17289.2 | 17289.2 | 15889.7 | 12404.8 | 15762.2 | 21416.5 | 24419.6 | 21383.4 | 14334.6 | 13582.6 | 18936.1 |
| 55°   | 18033.6 | 18232.5 | 17452.4 | 12891.7 | 16776.8 | 24230.9 | 27624.0 | 24253.9 | 15288.1 | 15028.0 | 20684.9 |
| 57.5° | 17087.9 | 17460.0 | 17347.9 | 12552.7 | 17375.9 | 26298.4 | 30341.6 | 26431.0 | 15759.7 | 15198.8 | 20422.3 |
| 60°   | 13924.2 | 14441.7 | 14699.2 | 10839.6 | 16784.5 | 26538.0 | 30910.1 | 26573.7 | 14785.8 | 12942.7 | 17493.2 |
| 62.5° | 9256.5  | 9682.2  | 10074.8 | 7744.7  | 14530.9 | 23874.0 | 27338.5 | 23881.7 | 12348.7 | 9659.2  | 12119.3 |
| 65°   | 4540.3  | 4856.4  | 5279.6  | 4578.5  | 11352.0 | 19948.1 | 21314.6 | 19298.1 | 8932.7  | 5407.0  | 6182.0  |
| 67.5° | 1188.0  | 1277.2  | 1335.8  | 1776.9  | 8132.2  | 14332.1 | 13901.2 | 14115.4 | 5738.4  | 1766.7  | 1616.2  |
| 70°   | 616.9   | 622.0   | 619.5   | 734.2   | 5496.3  | 9108.6  | 9580.2  | 8863.9  | 4004.9  | 739.3   | 637.3   |
| 72.5° | 441.0   | 443.6   | 435.9   | 494.6   | 2653.8  | 5218.4  | 5407.0  | 5348.4  | 2098.1  | 438.5   | 435.9   |
| 75°   | 288.1   | 290.6   | 285.5   | 290.6   | 400.2   | 594.0   | 548.1   | 576.1   | 349.3   | 277.9   | 277.9   |
| 77.5° | 170.8   | 173.4   | 170.8   | 175.9   | 170.8   | 170.8   | 158.1   | 158.1   | 150.4   | 150.4   | 153.0   |
| 80°   | 114.7   | 114.7   | 112.2   | 117.3   | 107.1   | 107.1   | 102.0   | 99.4    | 91.8    | 89.2    | 89.2    |
| 82.5° | 68.8    | 71.4    | 68.8    | 68.8    | 63.7    | 63.7    | 58.6    | 56.1    | 48.4    | 48.4    | 45.9    |
| 85°   | 35.7    | 35.7    | 33.1    | 33.1    | 28.0    | 25.5    | 20.4    | 20.4    | 15.3    | 12.7    | 12.7    |
| 87.5° | 5.1     | 5.1     | 2.5     | 2.5     | 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°    | 5715.5  | 5715.5  | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 |
| 2.5°  | 6110.6  | 6059.6  | 5983.2 | 5909.2 | 5840.4 | 5769.0 | 5687.5 | 5603.3 | 5531.9 | 5458.0 | 5419.8 |
| 5°    | 6480.3  | 6375.8  | 6176.9 | 6001.0 | 5843.0 | 5712.9 | 5572.7 | 5452.9 | 5340.8 | 5249.0 | 5203.1 |
| 7.5°  | 6814.2  | 6651.1  | 6350.3 | 6072.4 | 5858.3 | 5679.8 | 5486.1 | 5307.6 | 5157.2 | 5045.0 | 5001.7 |
| 10°   | 7122.7  | 6929.0  | 6533.8 | 6182.0 | 5932.2 | 5733.3 | 5496.3 | 5254.1 | 5055.2 | 4907.4 | 4871.7 |
| 12.5° | 7372.5  | 7150.7  | 6679.1 | 6271.2 | 5975.5 | 5761.4 | 5552.3 | 5343.3 | 5147.0 | 4955.8 | 4925.2 |
| 15°   | 7594.3  | 7331.7  | 6788.7 | 6327.3 | 5960.2 | 5687.5 | 5511.6 | 5486.1 | 5486.1 | 5269.4 | 5208.2 |
| 17.5° | 7785.5  | 7497.4  | 6878.0 | 6352.8 | 5863.4 | 5468.2 | 5361.1 | 5582.9 | 5832.8 | 5677.3 | 5539.6 |
| 20°   | 8004.8  | 7655.5  | 6951.9 | 6352.8 | 5684.9 | 5190.3 | 5180.1 | 5557.4 | 5927.1 | 5929.6 | 5784.3 |
| 22.5° | 8226.5  | 7839.0  | 7038.6 | 6329.9 | 5440.2 | 4869.1 | 5057.8 | 5455.5 | 5784.3 | 5924.5 | 5825.1 |
| 25°   | 8586.0  | 8094.0  | 7176.2 | 6312.0 | 5154.7 | 4649.9 | 4948.2 | 5320.4 | 5598.2 | 5746.1 | 5682.4 |
| 27.5° | 9042.3  | 8430.5  | 7385.3 | 6340.1 | 4871.7 | 4519.9 | 4830.9 | 5144.5 | 5396.8 | 5526.8 | 5481.0 |
| 30°   | 9552.2  | 8818.0  | 7609.6 | 6388.5 | 4667.7 | 4453.6 | 4690.7 | 4943.1 | 5167.4 | 5297.4 | 5277.0 |
| 32.5° | 10202.2 | 9238.6  | 7803.4 | 6322.2 | 4553.0 | 4420.5 | 4542.8 | 4723.8 | 4940.5 | 5022.1 | 5039.9 |
| 35°   | 10979.8 | 9702.6  | 7951.2 | 6062.2 | 4448.5 | 4384.8 | 4382.2 | 4494.4 | 4647.3 | 4777.4 | 4790.1 |
| 37.5° | 11696.1 | 10245.6 | 8114.4 | 5616.1 | 4259.9 | 4295.5 | 4193.6 | 4259.9 | 4410.3 | 4540.3 | 4591.3 |
| 40°   | 12404.8 | 10796.2 | 8341.3 | 5047.6 | 4012.6 | 4096.7 | 3976.9 | 4022.8 | 4142.6 | 4313.4 | 4395.0 |
| 42.5° | 13093.1 | 11293.3 | 8580.9 | 4466.3 | 3765.3 | 3818.8 | 3729.6 | 3775.5 | 3900.4 | 4114.5 | 4206.3 |
| 45°   | 13842.6 | 11966.3 | 8767.0 | 3918.2 | 3551.2 | 3528.2 | 3456.8 | 3523.1 | 3711.8 | 3946.3 | 4055.9 |
| 47.5° | 15260.0 | 13026.8 | 8889.4 | 3553.7 | 3436.4 | 3270.7 | 3189.2 | 3331.9 | 3546.1 | 3783.1 | 3915.7 |
| 50°   | 16991.0 | 14561.5 | 8853.7 | 3321.7 | 3337.0 | 3005.6 | 2977.6 | 3166.2 | 3395.6 | 3642.9 | 3788.2 |
| 52.5° | 18362.5 | 16068.1 | 8448.3 | 3099.9 | 3143.3 | 2837.4 | 2755.8 | 3031.1 | 3250.3 | 3502.7 | 3653.1 |
| 55°   | 19410.3 | 16575.4 | 7204.3 | 2837.4 | 2827.2 | 2715.0 | 2544.2 | 2890.9 | 3105.0 | 3339.6 | 3502.7 |
| 57.5° | 18556.2 | 15446.1 | 5340.8 | 2475.4 | 2414.2 | 2472.8 | 2307.1 | 2653.8 | 2926.6 | 3158.6 | 3303.9 |
| 60°   | 15400.2 | 12315.6 | 2975.0 | 2192.4 | 2019.0 | 2161.8 | 2136.3 | 2404.0 | 2732.8 | 2977.6 | 3102.5 |
| 62.5° | 10454.6 | 8201.0  | 1764.1 | 1733.5 | 1636.6 | 1840.6 | 1975.7 | 2151.6 | 2475.4 | 2674.2 | 2791.5 |
| 65°   | 5210.7  | 3984.5  | 1172.7 | 1297.6 | 1310.3 | 1514.3 | 1769.2 | 1962.9 | 2233.2 | 2437.1 | 2554.4 |
| 67.5° | 1511.7  | 1239.0  | 892.2  | 991.7  | 1129.3 | 1292.5 | 1496.4 | 1725.9 | 1988.4 | 2230.6 | 2368.3 |
| 70°   | 652.6   | 660.3   | 708.7  | 826.0  | 961.1  | 1129.3 | 1333.3 | 1557.6 | 1779.4 | 1965.5 | 2070.0 |
| 72.5° | 461.4   | 479.3   | 532.8  | 652.6  | 780.1  | 940.7  | 1144.6 | 1361.3 | 1521.9 | 1710.6 | 1820.2 |
| 75°   | 295.7   | 308.5   | 351.8  | 443.6  | 537.9  | 693.4  | 887.2  | 1086.0 | 1251.7 | 1386.8 | 1491.3 |
| 77.5° | 163.2   | 165.7   | 201.4  | 254.9  | 318.7  | 418.1  | 560.8  | 716.3  | 838.7  | 915.2  | 1009.5 |
| 80°   | 94.3    | 94.3    | 112.2  | 145.3  | 183.5  | 244.7  | 323.8  | 400.2  | 474.2  | 522.6  | 568.5  |
| 82.5° | 51.0    | 51.0    | 58.6   | 79.0   | 99.4   | 135.1  | 181.0  | 219.2  | 265.1  | 290.6  | 321.2  |
| 85°   | 15.3    | 15.3    | 20.4   | 28.0   | 35.7   | 51.0   | 71.4   | 91.8   | 112.2  | 130.0  | 147.9  |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 |
| 2.5°  | 5412.1 | 5376.4 | 5356.0 | 5330.6 | 5338.2 | 5315.3 | 5302.5 | 5310.2 | 5264.3 | 5310.2 | 5356.0 |
| 5°    | 5185.2 | 5134.3 | 5093.5 | 5060.3 | 5045.0 | 5014.4 | 4996.6 | 4996.6 | 4968.6 | 5014.4 | 5070.5 |
| 7.5°  | 4986.4 | 4945.6 | 4925.2 | 4904.8 | 4881.9 | 4853.8 | 4823.2 | 4813.0 | 4795.2 | 4843.6 | 4892.1 |
| 10°   | 4853.8 | 4858.9 | 4871.7 | 4899.7 | 4894.6 | 4876.8 | 4830.9 | 4805.4 | 4805.4 | 4861.5 | 4935.4 |
| 12.5° | 4915.0 | 4968.6 | 4999.1 | 5050.1 | 5060.3 | 5045.0 | 4999.1 | 4978.8 | 5029.7 | 5113.9 | 5236.2 |
| 15°   | 5152.1 | 5187.8 | 5213.3 | 5254.1 | 5251.5 | 5238.8 | 5203.1 | 5218.4 | 5386.6 | 5549.8 | 5659.4 |
| 17.5° | 5409.6 | 5368.8 | 5363.7 | 5389.2 | 5396.8 | 5381.5 | 5361.1 | 5430.0 | 5707.8 | 5860.8 | 5916.9 |
| 20°   | 5595.7 | 5455.5 | 5424.9 | 5435.1 | 5455.5 | 5447.8 | 5447.8 | 5560.0 | 5848.1 | 5919.4 | 5848.1 |
| 22.5° | 5651.8 | 5452.9 | 5407.0 | 5409.6 | 5437.6 | 5440.2 | 5452.9 | 5570.2 | 5738.4 | 5741.0 | 5631.4 |
| 25°   | 5562.5 | 5371.3 | 5338.2 | 5343.3 | 5376.4 | 5373.9 | 5379.0 | 5445.3 | 5519.2 | 5488.6 | 5407.0 |
| 27.5° | 5394.3 | 5228.6 | 5218.4 | 5246.4 | 5289.8 | 5266.8 | 5251.5 | 5269.4 | 5305.1 | 5266.8 | 5195.4 |
| 30°   | 5203.1 | 5062.9 | 5068.0 | 5121.5 | 5167.4 | 5129.2 | 5090.9 | 5101.1 | 5103.7 | 5062.9 | 4981.3 |
| 32.5° | 5001.7 | 4897.2 | 4915.0 | 4971.1 | 5024.6 | 4983.9 | 4943.1 | 4938.0 | 4889.5 | 4841.1 | 4762.1 |
| 35°   | 4800.3 | 4759.5 | 4782.5 | 4828.3 | 4874.2 | 4841.1 | 4815.6 | 4800.3 | 4695.8 | 4624.4 | 4558.1 |
| 37.5° | 4616.8 | 4647.3 | 4688.1 | 4716.2 | 4731.5 | 4728.9 | 4713.6 | 4677.9 | 4540.3 | 4456.1 | 4369.5 |
| 40°   | 4453.6 | 4547.9 | 4591.3 | 4604.0 | 4627.0 | 4621.9 | 4619.3 | 4568.3 | 4387.3 | 4298.1 | 4198.7 |
| 42.5° | 4305.7 | 4438.3 | 4512.2 | 4525.0 | 4537.7 | 4540.3 | 4532.6 | 4458.7 | 4252.2 | 4147.7 | 4053.4 |
| 45°   | 4163.0 | 4336.3 | 4430.7 | 4417.9 | 4435.8 | 4435.8 | 4443.4 | 4346.5 | 4119.6 | 4012.6 | 3913.2 |
| 47.5° | 4038.1 | 4242.0 | 4328.7 | 4313.4 | 4323.6 | 4331.2 | 4338.9 | 4226.7 | 3974.3 | 3872.4 | 3770.4 |
| 50°   | 3923.3 | 4140.0 | 4214.0 | 4219.1 | 4219.1 | 4236.9 | 4234.4 | 4124.7 | 3852.0 | 3742.3 | 3640.4 |
| 52.5° | 3801.0 | 4035.5 | 4114.5 | 4147.7 | 4157.9 | 4165.5 | 4129.8 | 4002.4 | 3727.1 | 3594.5 | 3500.2 |
| 55°   | 3658.2 | 3928.4 | 3999.8 | 4043.2 | 4063.6 | 4058.5 | 4010.0 | 3880.0 | 3599.6 | 3467.0 | 3360.0 |
| 57.5° | 3441.5 | 3699.0 | 3801.0 | 3821.4 | 3854.5 | 3834.1 | 3778.0 | 3668.4 | 3395.6 | 3263.1 | 3153.5 |
| 60°   | 3204.5 | 3390.5 | 3472.1 | 3490.0 | 3464.5 | 3472.1 | 3464.5 | 3360.0 | 3122.9 | 3018.4 | 2906.2 |
| 62.5° | 2893.4 | 3059.1 | 3145.8 | 3168.8 | 3125.4 | 3153.5 | 3143.3 | 3013.3 | 2776.2 | 2666.6 | 2567.1 |
| 65°   | 2658.9 | 2839.9 | 2941.9 | 2954.6 | 2941.9 | 2954.6 | 2918.9 | 2760.9 | 2536.5 | 2424.4 | 2322.4 |
| 67.5° | 2475.4 | 2661.5 | 2768.5 | 2804.2 | 2791.5 | 2788.9 | 2732.8 | 2549.3 | 2317.3 | 2194.9 | 2064.9 |
| 70°   | 2159.2 | 2322.4 | 2460.1 | 2546.7 | 2546.7 | 2498.3 | 2391.2 | 2220.4 | 2034.3 | 1929.8 | 1827.8 |
| 72.5° | 1912.0 | 2118.5 | 2253.6 | 2342.8 | 2360.6 | 2332.6 | 2182.2 | 2001.2 | 1787.0 | 1682.5 | 1575.5 |
| 75°   | 1575.5 | 1776.9 | 1922.2 | 2039.4 | 2062.4 | 2031.8 | 1858.4 | 1680.0 | 1481.1 | 1379.2 | 1272.1 |
| 77.5° | 1052.9 | 1172.7 | 1289.9 | 1397.0 | 1374.1 | 1394.5 | 1277.2 | 1142.1 | 1019.7 | 943.2  | 894.8  |
| 80°   | 594.0  | 673.0  | 708.7  | 767.3  | 767.3  | 767.3  | 690.9  | 627.1  | 558.3  | 515.0  | 466.5  |
| 82.5° | 336.5  | 387.5  | 402.8  | 451.2  | 464.0  | 466.5  | 415.5  | 374.7  | 331.4  | 308.5  | 275.3  |
| 85°   | 155.5  | 183.5  | 186.1  | 214.1  | 224.3  | 244.7  | 221.8  | 193.7  | 168.3  | 158.1  | 137.7  |
| 87.5° | 5.1    | 15.3   | 20.4   | 38.2   | 51.0   | 58.6   | 63.7   | 63.7   | 53.5   | 48.4   | 40.8   |
| 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: P643434

CATALOG NUMBER: GWS-SA6E-830-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5 | 5715.5  | 5715.5  | 5715.5  |
| 2.5°  | 5412.1 | 5473.3 | 5544.7 | 5595.7 | 5687.5 | 5763.9 | 5843.0 | 5929.6  | 5993.4  | 5978.1  |
| 5°    | 5139.4 | 5241.3 | 5371.3 | 5491.2 | 5662.0 | 5835.3 | 6026.5 | 6222.8  | 6337.5  | 6332.4  |
| 7.5°  | 4986.4 | 5131.7 | 5289.8 | 5450.4 | 5651.8 | 5901.6 | 6194.8 | 6500.7  | 6656.2  | 6663.8  |
| 10°   | 5068.0 | 5223.5 | 5330.6 | 5465.7 | 5677.3 | 5990.8 | 6342.6 | 6709.7  | 6888.2  | 6923.9  |
| 12.5° | 5325.5 | 5312.7 | 5305.1 | 5401.9 | 5656.9 | 6054.6 | 6485.4 | 6923.9  | 7125.2  | 7168.6  |
| 15°   | 5570.2 | 5307.6 | 5149.6 | 5215.8 | 5565.1 | 6095.3 | 6625.6 | 7158.4  | 7385.3  | 7431.2  |
| 17.5° | 5616.1 | 5218.4 | 4925.2 | 4971.1 | 5419.8 | 6108.1 | 6760.7 | 7387.8  | 7632.6  | 7675.9  |
| 20°   | 5488.6 | 5103.7 | 4762.1 | 4698.3 | 5236.2 | 6074.9 | 6844.8 | 7579.0  | 7846.7  | 7892.6  |
| 22.5° | 5328.0 | 5001.7 | 4639.7 | 4474.0 | 5011.9 | 6041.8 | 6939.2 | 7780.4  | 8088.9  | 8129.7  |
| 25°   | 5159.8 | 4871.7 | 4525.0 | 4272.6 | 4757.0 | 6021.4 | 7097.2 | 8045.5  | 8417.7  | 8466.2  |
| 27.5° | 4981.3 | 4713.6 | 4425.6 | 4175.7 | 4522.4 | 6046.9 | 7321.5 | 8473.8  | 8897.0  | 8965.8  |
| 30°   | 4790.1 | 4555.6 | 4361.8 | 4142.6 | 4361.8 | 6069.8 | 7568.8 | 8912.3  | 9409.4  | 9506.3  |
| 32.5° | 4591.3 | 4410.3 | 4295.5 | 4157.9 | 4262.4 | 6016.3 | 7785.5 | 9404.3  | 10021.2 | 10105.4 |
| 35°   | 4392.4 | 4262.4 | 4211.4 | 4185.9 | 4129.8 | 5820.0 | 7961.4 | 9901.4  | 10719.7 | 10793.7 |
| 37.5° | 4206.3 | 4109.4 | 4094.2 | 4122.2 | 3925.9 | 5498.8 | 8165.4 | 10533.6 | 11405.5 | 11517.7 |
| 40°   | 4033.0 | 3943.7 | 3941.2 | 3936.1 | 3701.6 | 5060.3 | 8440.7 | 11176.1 | 12081.1 | 12132.0 |
| 42.5° | 3872.4 | 3760.2 | 3780.6 | 3719.4 | 3518.0 | 4586.2 | 8700.7 | 11724.2 | 12710.7 | 12746.4 |
| 45°   | 3729.6 | 3581.7 | 3604.7 | 3528.2 | 3431.3 | 4089.1 | 8930.1 | 12371.7 | 13508.7 | 13531.6 |
| 47.5° | 3591.9 | 3433.9 | 3370.2 | 3365.1 | 3416.0 | 3630.2 | 9154.5 | 13618.3 | 14757.8 | 14798.6 |
| 50°   | 3464.5 | 3293.7 | 3112.7 | 3224.8 | 3321.7 | 3286.0 | 9434.9 | 14954.1 | 16047.7 | 16037.5 |
| 52.5° | 3342.1 | 3117.8 | 2860.3 | 3077.0 | 3077.0 | 3031.1 | 9355.9 | 15764.8 | 17113.3 | 17289.2 |
| 55°   | 3201.9 | 2834.8 | 2597.7 | 2829.7 | 2717.5 | 2801.7 | 7956.3 | 16029.9 | 17783.8 | 18033.6 |
| 57.5° | 2924.0 | 2485.6 | 2279.1 | 2404.0 | 2235.7 | 2597.7 | 5715.5 | 14714.5 | 16644.3 | 17087.9 |
| 60°   | 2656.4 | 2228.1 | 2093.0 | 2070.0 | 1850.8 | 2118.5 | 3704.1 | 11520.2 | 13699.9 | 13924.2 |
| 62.5° | 2342.8 | 2006.3 | 1891.6 | 1715.7 | 1488.8 | 1542.3 | 2243.4 | 7581.6  | 9205.5  | 9256.5  |
| 65°   | 2105.7 | 1817.6 | 1598.4 | 1389.4 | 1218.6 | 1119.1 | 1325.6 | 3655.7  | 4601.5  | 4540.3  |
| 67.5° | 1807.4 | 1557.6 | 1348.6 | 1198.2 | 1058.0 | 933.0  | 882.1  | 1086.0  | 1228.8  | 1188.0  |
| 70°   | 1608.6 | 1369.0 | 1167.6 | 1024.8 | 894.8  | 769.9  | 680.7  | 639.9   | 627.1   | 616.9   |
| 72.5° | 1386.8 | 1177.8 | 968.7  | 831.1  | 708.7  | 594.0  | 512.4  | 464.0   | 451.2   | 441.0   |
| 75°   | 1106.4 | 910.1  | 718.9  | 588.9  | 481.8  | 400.2  | 346.7  | 305.9   | 298.3   | 288.1   |
| 77.5° | 731.6  | 583.8  | 428.3  | 349.3  | 285.5  | 242.2  | 206.5  | 181.0   | 175.9   | 170.8   |
| 80°   | 402.8  | 336.5  | 262.6  | 211.6  | 170.8  | 147.9  | 135.1  | 119.8   | 117.3   | 114.7   |
| 82.5° | 239.6  | 201.4  | 150.4  | 119.8  | 99.4   | 89.2   | 81.6   | 73.9    | 71.4    | 68.8    |
| 85°   | 119.8  | 94.3   | 66.3   | 56.1   | 51.0   | 45.9   | 45.9   | 38.2    | 35.7    | 35.7    |
| 87.5° | 30.6   | 25.5   | 15.3   | 12.7   | 12.7   | 12.7   | 10.2   | 7.6     | 7.6     | 5.1     |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)