

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: P630070

Luminaire Tested: GWS-SA1C-830-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-830-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

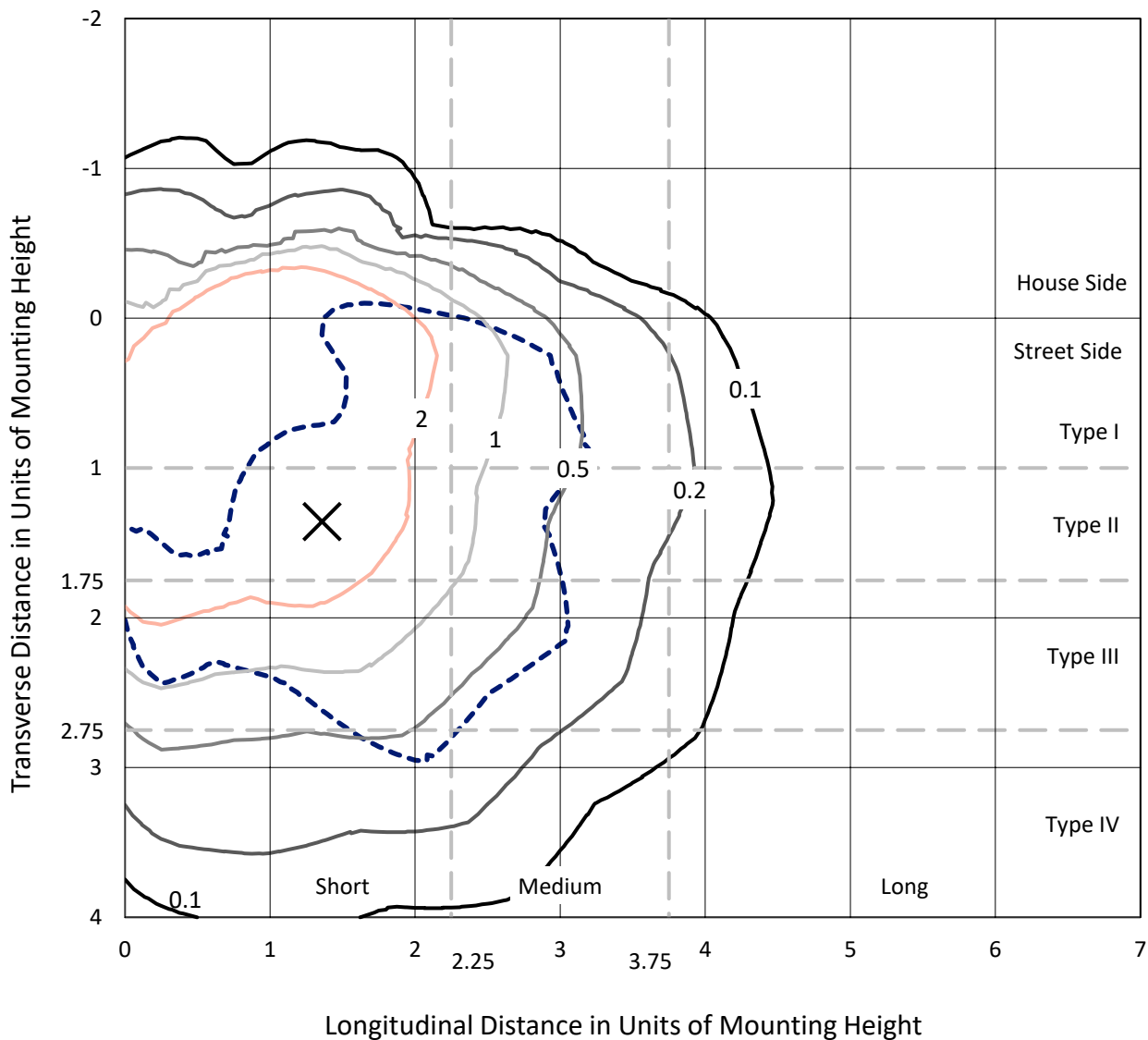
Lumens per Lamp: N/A  
Luminaire Lumens: 2369.6 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

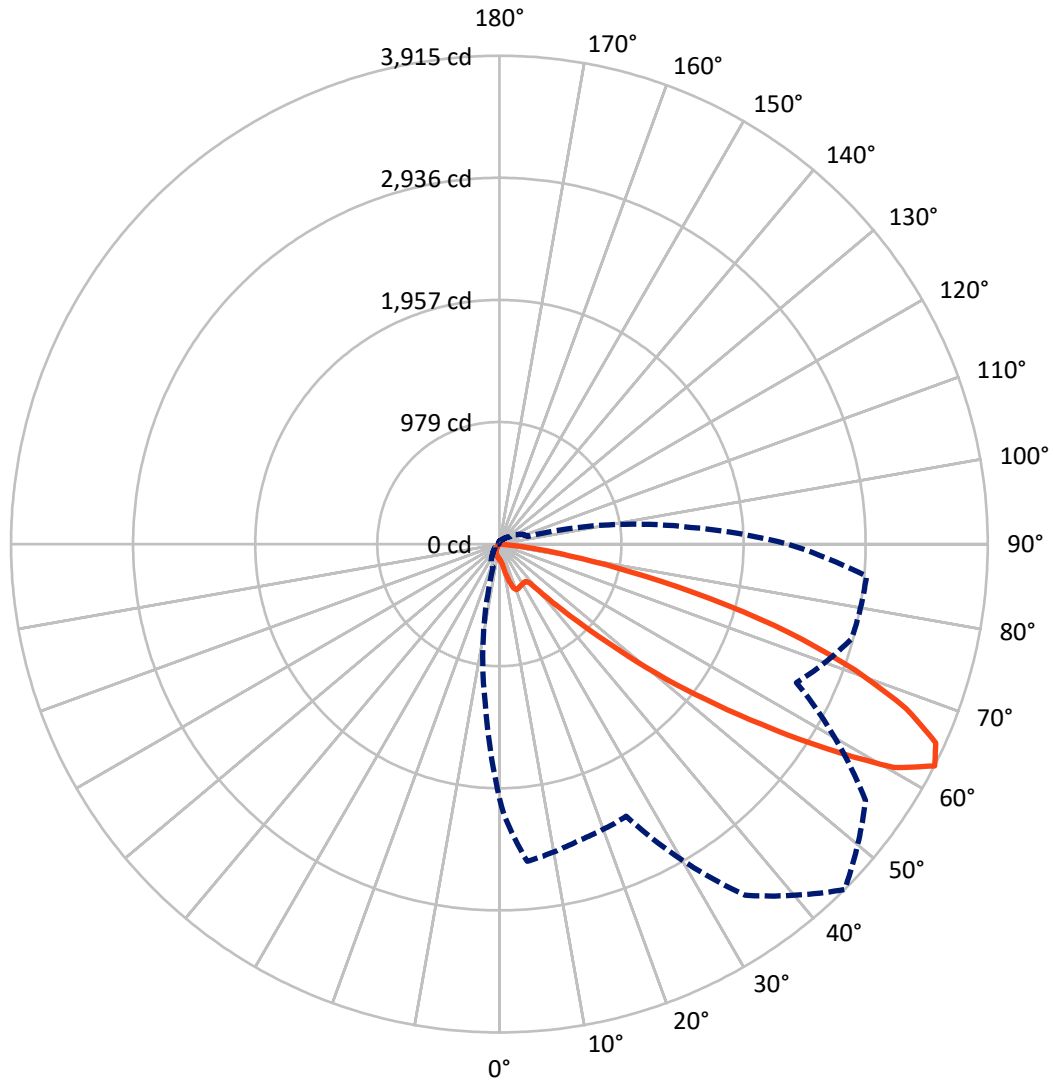
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P630070  
CATALOG NUMBER: GWS-SA1C-830-U-SLR-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P630070

CATALOG NUMBER: GWS-SA1C-830-U-SLR-W-HSS

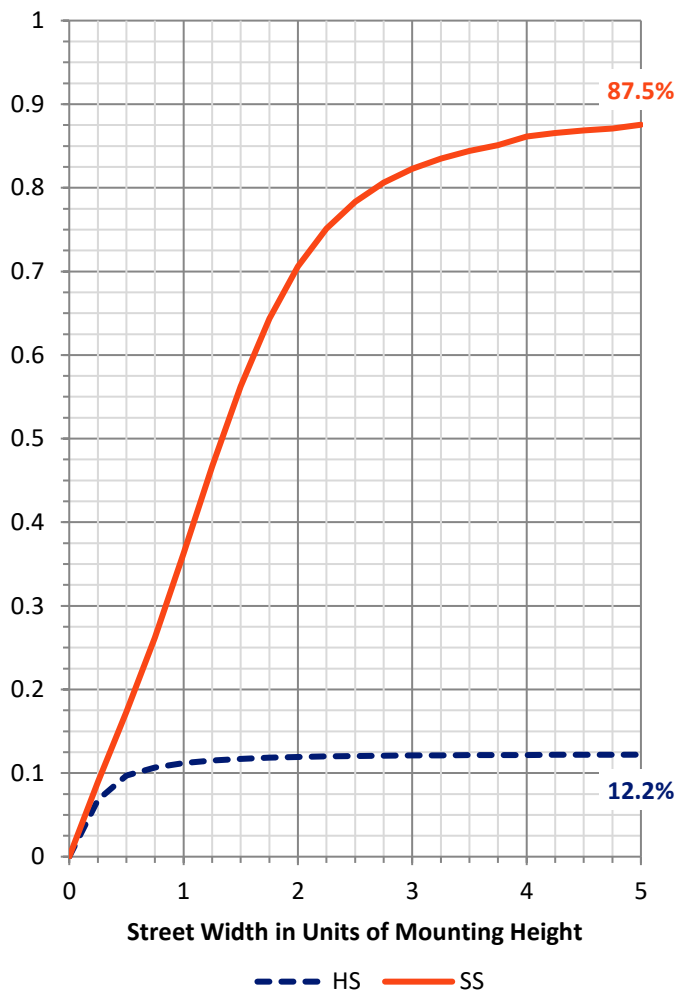
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 292.4    | 0.0    | 292.4  |
|                    | % Fixture | 12.3     | 0.0    | 12.3   |
| <b>Street Side</b> | Lumens    | 2077.2   | 0.0    | 2077.2 |
|                    | % Fixture | 87.7     | 0.0    | 87.7   |
| <b>Total</b>       | Lumens    | 2369.6   | 0.0    | 2369.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.9   | 0.5       |
| 10°-20°   | 41.3   | 1.7       |
| 20°-30°   | 89.8   | 3.8       |
| 30°-40°   | 147.4  | 6.2       |
| 40°-50°   | 271.0  | 11.4      |
| 50°-60°   | 581.9  | 24.6      |
| 60°-70°   | 781.6  | 33.0      |
| 70°-80°   | 407.0  | 17.2      |
| 80°-90°   | 38.6   | 1.6       |
| 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°    | 2369.6 | 100.0     |
| 0°-180°   | 2369.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P630070

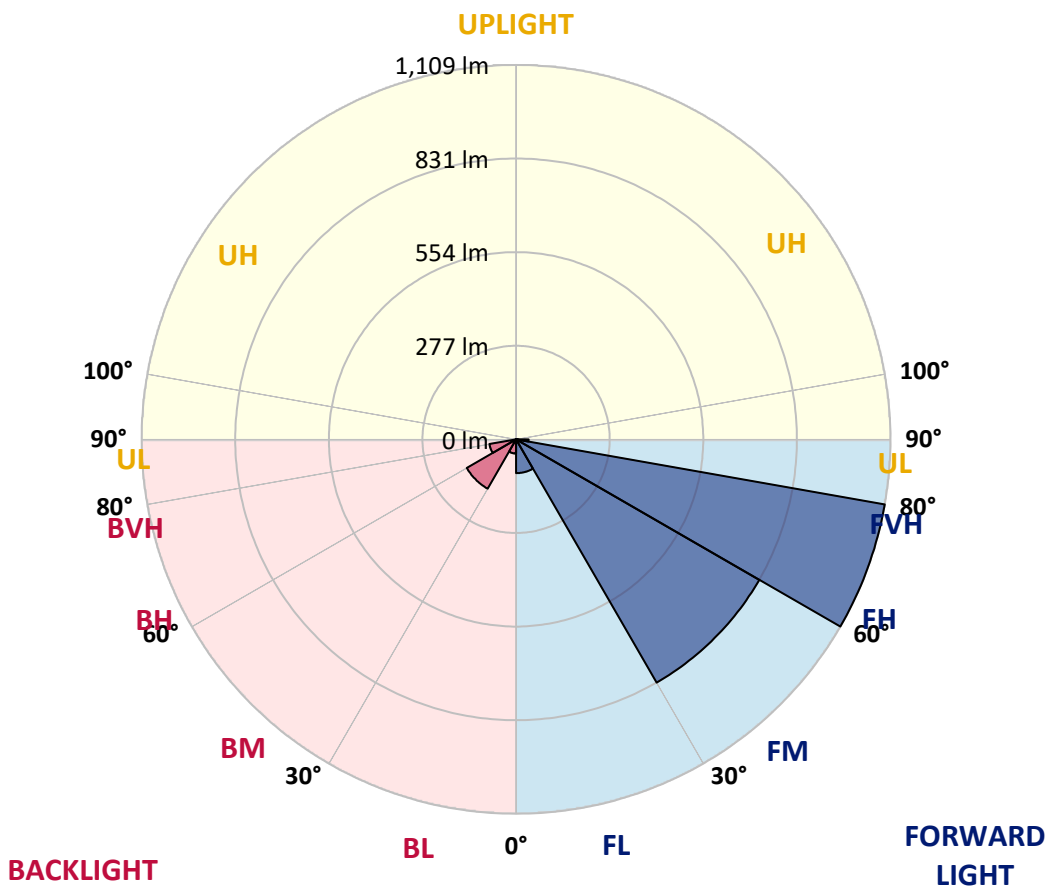
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 100.1  | 4.2       |                         |      |         |
| FM (30°-60°)   | 831.7  | 35.1      |                         |      |         |
| FH (60°-80°)   | 1108.5 | 46.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 36.9   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 41.9   | 1.8       | B0/110                  |      |         |
| BM (30°-60°)   | 168.6  | 7.1       | B0/220                  |      |         |
| BH (60°-80°)   | 80.1   | 3.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.7    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





REPORT NUMBER: P630070  
 CATALOG NUMBER: GWS-SA1C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 123.2  | 123.2  | 123.2  | 123.2  | 123.2  | 123.2  | 123.2  | 123.2  | 123.2  | 123.2  | 123.2  |
| 2.5°  | 125.6  | 126.2  | 126.7  | 128.6  | 130.0  | 131.1  | 131.4  | 130.6  | 128.6  | 126.7  | 124.0  |
| 5°    | 121.8  | 122.3  | 124.3  | 129.5  | 134.7  | 138.8  | 140.1  | 139.3  | 134.7  | 128.6  | 122.3  |
| 7.5°  | 121.5  | 122.6  | 127.3  | 138.2  | 149.4  | 157.9  | 160.1  | 158.2  | 149.4  | 137.4  | 124.5  |
| 10°   | 131.4  | 133.3  | 140.1  | 159.8  | 180.4  | 195.4  | 201.5  | 193.2  | 179.3  | 157.4  | 136.3  |
| 12.5° | 157.1  | 160.4  | 173.5  | 202.3  | 234.0  | 254.0  | 262.2  | 252.1  | 230.2  | 198.4  | 165.0  |
| 15°   | 197.6  | 202.5  | 222.3  | 265.2  | 302.7  | 320.5  | 323.3  | 317.5  | 292.0  | 257.0  | 212.1  |
| 17.5° | 254.8  | 261.9  | 292.6  | 336.4  | 363.5  | 369.8  | 369.0  | 362.9  | 344.3  | 320.2  | 277.8  |
| 20°   | 323.3  | 331.7  | 361.8  | 398.0  | 400.7  | 393.3  | 389.2  | 385.7  | 379.4  | 375.3  | 342.1  |
| 22.5° | 392.2  | 402.6  | 434.1  | 443.1  | 418.5  | 397.2  | 387.0  | 389.8  | 399.1  | 419.3  | 405.9  |
| 25°   | 460.9  | 470.8  | 500.3  | 476.0  | 426.7  | 391.1  | 378.3  | 384.8  | 407.0  | 450.8  | 468.0  |
| 27.5° | 541.1  | 548.5  | 566.0  | 498.4  | 428.1  | 386.2  | 373.6  | 383.7  | 410.8  | 470.5  | 536.2  |
| 30°   | 624.6  | 629.0  | 620.5  | 504.4  | 423.4  | 378.8  | 369.0  | 383.7  | 417.4  | 483.6  | 587.4  |
| 32.5° | 685.9  | 686.7  | 659.1  | 505.0  | 421.0  | 372.8  | 364.6  | 382.1  | 423.7  | 494.6  | 636.9  |
| 35°   | 749.1  | 745.0  | 696.0  | 513.2  | 427.5  | 375.0  | 367.9  | 386.8  | 433.6  | 507.5  | 680.4  |
| 37.5° | 813.2  | 805.8  | 737.4  | 526.6  | 444.5  | 398.8  | 394.4  | 410.6  | 449.4  | 525.2  | 728.3  |
| 40°   | 878.9  | 868.8  | 780.3  | 546.9  | 482.3  | 479.8  | 494.9  | 493.0  | 493.0  | 548.0  | 777.6  |
| 42.5° | 959.1  | 947.3  | 843.8  | 604.1  | 570.4  | 625.4  | 666.5  | 641.0  | 594.0  | 600.2  | 841.7  |
| 45°   | 1065.0 | 1054.9 | 953.9  | 713.6  | 708.6  | 835.1  | 890.4  | 840.0  | 722.9  | 721.0  | 948.7  |
| 47.5° | 1234.4 | 1232.5 | 1129.3 | 840.6  | 877.8  | 1102.0 | 1208.7 | 1111.8 | 869.9  | 848.8  | 1151.2 |
| 50°   | 1472.6 | 1466.8 | 1348.0 | 989.5  | 1079.0 | 1432.6 | 1623.1 | 1461.6 | 1047.5 | 997.9  | 1422.5 |
| 52.5° | 1740.8 | 1746.8 | 1654.3 | 1152.0 | 1292.7 | 1800.5 | 2065.7 | 1862.3 | 1240.5 | 1187.6 | 1763.8 |
| 55°   | 1993.4 | 2027.9 | 2003.6 | 1342.3 | 1501.6 | 2206.7 | 2551.8 | 2301.9 | 1479.4 | 1435.9 | 2146.4 |
| 57.5° | 2191.1 | 2288.2 | 2459.0 | 1618.7 | 1747.1 | 2681.8 | 3094.6 | 2778.4 | 1758.3 | 1839.1 | 2667.3 |
| 60°   | 2202.0 | 2330.6 | 2727.2 | 2197.1 | 2063.0 | 3089.4 | 3636.5 | 3244.0 | 2196.8 | 2523.6 | 3075.4 |
| 62.5° | 2037.0 | 2174.9 | 2552.6 | 2459.8 | 2407.0 | 3436.2 | 3914.6 | 3583.4 | 2628.2 | 2924.6 | 2954.4 |
| 65°   | 1848.1 | 1987.4 | 2357.7 | 2161.8 | 2367.0 | 3421.4 | 3844.0 | 3591.4 | 2667.3 | 2652.0 | 2737.9 |
| 67.5° | 1562.6 | 1687.7 | 2023.0 | 1913.5 | 2181.7 | 3256.3 | 3517.7 | 3365.0 | 2457.4 | 2480.4 | 2518.7 |
| 70°   | 1140.6 | 1261.0 | 1572.2 | 1577.7 | 1905.3 | 2958.8 | 3022.6 | 3001.5 | 2263.0 | 2287.4 | 2177.9 |
| 72.5° | 823.9  | 925.4  | 1193.9 | 1293.8 | 1521.0 | 2481.2 | 2437.1 | 2518.4 | 1941.7 | 2037.2 | 1749.3 |
| 75°   | 592.3  | 668.4  | 875.9  | 1125.5 | 1205.7 | 1842.6 | 1744.6 | 1950.5 | 1558.0 | 1754.2 | 1315.2 |
| 77.5° | 240.3  | 267.1  | 344.6  | 758.2  | 792.4  | 1239.6 | 1068.0 | 1416.7 | 1110.7 | 1152.6 | 637.5  |
| 80°   | 9.9    | 10.9   | 14.2   | 391.4  | 543.3  | 697.4  | 571.5  | 757.4  | 733.5  | 464.2  | 150.5  |
| 82.5° | 1.1    | 1.1    | 2.5    | 112.8  | 237.9  | 384.8  | 269.3  | 436.3  | 371.4  | 196.8  | 68.4   |
| 85°   | 0.3    | 0.3    | 0.5    | 12.9   | 55.8   | 61.6   | 36.4   | 133.8  | 172.7  | 80.5   | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.5    | 2.7    | 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: P630070

CATALOG NUMBER: GWS-SA1C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 123.2  | 123.2  | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 |
| 2.5°  | 124.0  | 122.6  | 121.0 | 119.3 | 118.5 | 116.3 | 115.5 | 115.0 | 114.4 | 114.7 | 114.7 |
| 5°    | 119.9  | 116.9  | 113.3 | 109.8 | 107.8 | 105.7 | 104.6 | 104.0 | 104.3 | 105.4 | 105.4 |
| 7.5°  | 119.3  | 113.6  | 105.9 | 101.3 | 99.1  | 97.4  | 96.3  | 95.8  | 96.1  | 97.4  | 98.0  |
| 10°   | 128.4  | 118.2  | 104.6 | 96.6  | 94.2  | 92.5  | 91.4  | 90.6  | 90.1  | 91.1  | 91.4  |
| 12.5° | 147.8  | 133.8  | 111.1 | 96.1  | 91.7  | 89.5  | 88.7  | 87.0  | 86.2  | 86.8  | 87.0  |
| 15°   | 188.0  | 164.0  | 124.3 | 98.3  | 89.5  | 87.0  | 85.7  | 84.3  | 82.9  | 82.7  | 82.9  |
| 17.5° | 240.6  | 206.1  | 144.2 | 103.5 | 87.9  | 84.9  | 82.9  | 81.0  | 79.1  | 78.8  | 78.6  |
| 20°   | 305.7  | 257.8  | 172.2 | 111.7 | 86.5  | 82.9  | 80.2  | 77.5  | 75.0  | 74.2  | 74.2  |
| 22.5° | 365.1  | 320.2  | 208.0 | 121.8 | 84.6  | 80.2  | 76.9  | 73.6  | 70.9  | 69.5  | 69.2  |
| 25°   | 437.7  | 386.5  | 251.0 | 133.6 | 81.8  | 76.6  | 73.1  | 69.8  | 67.1  | 65.4  | 64.9  |
| 27.5° | 510.7  | 456.3  | 299.7 | 148.9 | 78.6  | 73.1  | 69.8  | 66.8  | 63.8  | 61.9  | 61.3  |
| 30°   | 581.6  | 531.5  | 354.5 | 168.1 | 76.1  | 69.5  | 66.8  | 63.8  | 61.0  | 58.0  | 57.2  |
| 32.5° | 657.7  | 608.5  | 415.8 | 189.4 | 74.2  | 67.1  | 64.0  | 61.3  | 57.8  | 55.0  | 53.6  |
| 35°   | 731.1  | 687.8  | 483.4 | 210.2 | 72.3  | 64.9  | 61.6  | 58.8  | 55.0  | 52.0  | 50.1  |
| 37.5° | 805.0  | 768.6  | 554.0 | 222.8 | 69.5  | 61.9  | 58.8  | 56.7  | 52.3  | 48.7  | 46.5  |
| 40°   | 883.3  | 852.1  | 630.4 | 217.6 | 67.1  | 58.6  | 56.9  | 54.5  | 49.5  | 45.4  | 42.7  |
| 42.5° | 969.2  | 931.7  | 708.1 | 197.6 | 64.9  | 55.8  | 54.2  | 51.7  | 47.1  | 42.2  | 38.6  |
| 45°   | 1077.3 | 1019.0 | 771.9 | 167.5 | 66.0  | 53.1  | 49.8  | 49.3  | 44.9  | 38.6  | 34.2  |
| 47.5° | 1263.2 | 1153.1 | 821.4 | 148.1 | 73.4  | 50.1  | 46.3  | 47.6  | 43.0  | 35.0  | 30.1  |
| 50°   | 1547.6 | 1375.4 | 867.7 | 146.7 | 84.6  | 48.7  | 43.0  | 46.5  | 41.1  | 31.5  | 26.5  |
| 52.5° | 1818.5 | 1601.2 | 897.2 | 158.8 | 94.4  | 52.3  | 39.7  | 45.2  | 39.7  | 29.0  | 24.1  |
| 55°   | 2077.7 | 1731.5 | 844.4 | 167.5 | 103.7 | 63.0  | 37.2  | 43.0  | 38.0  | 27.6  | 23.3  |
| 57.5° | 2357.2 | 1789.5 | 664.8 | 185.3 | 110.3 | 72.0  | 37.8  | 39.7  | 35.9  | 26.8  | 23.0  |
| 60°   | 2440.7 | 1715.3 | 401.3 | 208.6 | 106.7 | 74.7  | 41.9  | 35.3  | 32.8  | 25.2  | 22.2  |
| 62.5° | 2310.9 | 1539.3 | 236.8 | 190.0 | 103.7 | 70.6  | 47.9  | 32.6  | 29.8  | 23.0  | 20.5  |
| 65°   | 2116.9 | 1300.4 | 154.4 | 160.4 | 110.0 | 63.0  | 50.9  | 31.2  | 27.1  | 20.8  | 18.1  |
| 67.5° | 1895.2 | 1047.5 | 108.1 | 94.7  | 101.5 | 56.7  | 43.0  | 30.9  | 24.4  | 17.5  | 14.8  |
| 70°   | 1596.3 | 784.5  | 76.1  | 62.7  | 84.6  | 50.4  | 33.4  | 30.1  | 21.3  | 14.2  | 11.5  |
| 72.5° | 1233.3 | 491.0  | 56.7  | 40.5  | 60.2  | 41.1  | 26.5  | 25.5  | 17.2  | 11.8  | 8.8   |
| 75°   | 909.5  | 280.0  | 40.0  | 29.3  | 39.7  | 31.2  | 19.7  | 18.1  | 14.8  | 11.2  | 7.9   |
| 77.5° | 474.9  | 140.1  | 24.9  | 22.4  | 22.7  | 19.4  | 14.2  | 13.1  | 13.7  | 11.2  | 7.4   |
| 80°   | 91.1   | 27.9   | 15.1  | 16.4  | 12.3  | 12.3  | 10.4  | 10.9  | 12.0  | 9.0   | 6.3   |
| 82.5° | 38.0   | 6.0    | 8.2   | 9.3   | 7.7   | 8.5   | 8.5   | 8.8   | 8.5   | 6.6   | 4.7   |
| 85°   | 0.0    | 0.0    | 3.6   | 3.8   | 5.2   | 5.2   | 4.4   | 4.4   | 4.4   | 3.8   | 2.7   |
| 87.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.3   | 0.8   | 1.6   | 1.9   | 2.2   | 1.6   | 1.1   |
| 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: P630070  
 CATALOG NUMBER: GWS-SA1C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 |
| 2.5°  | 114.4 | 113.9 | 114.7 | 115.2 | 115.8 | 115.8 | 115.2 | 114.7 | 113.9 | 114.7 | 113.9 |
| 5°    | 105.7 | 106.5 | 107.8 | 108.4 | 108.9 | 107.8 | 107.3 | 105.7 | 104.3 | 104.6 | 104.0 |
| 7.5°  | 98.8  | 99.6  | 101.3 | 102.4 | 102.4 | 101.8 | 100.2 | 98.5  | 96.3  | 96.3  | 96.1  |
| 10°   | 92.5  | 93.6  | 95.5  | 96.9  | 97.4  | 96.9  | 95.3  | 93.1  | 91.1  | 91.1  | 90.3  |
| 12.5° | 87.3  | 88.7  | 90.9  | 92.8  | 93.3  | 92.8  | 91.1  | 89.0  | 86.8  | 86.8  | 86.2  |
| 15°   | 82.9  | 84.6  | 87.0  | 89.2  | 90.1  | 89.2  | 87.3  | 84.6  | 82.4  | 82.7  | 81.8  |
| 17.5° | 78.8  | 80.2  | 83.5  | 85.9  | 86.8  | 85.9  | 83.5  | 79.9  | 77.7  | 78.3  | 77.7  |
| 20°   | 74.2  | 75.8  | 79.1  | 81.8  | 82.7  | 81.8  | 79.1  | 75.3  | 73.1  | 73.1  | 73.4  |
| 22.5° | 69.2  | 70.9  | 74.2  | 76.1  | 77.2  | 76.4  | 73.6  | 70.1  | 67.9  | 67.9  | 68.2  |
| 25°   | 64.9  | 65.7  | 68.2  | 70.1  | 70.3  | 69.5  | 67.3  | 64.6  | 63.0  | 63.8  | 64.0  |
| 27.5° | 60.8  | 60.8  | 61.9  | 63.0  | 62.7  | 61.9  | 61.0  | 58.8  | 58.6  | 59.4  | 60.2  |
| 30°   | 56.4  | 55.0  | 54.5  | 53.6  | 53.4  | 53.1  | 53.9  | 53.9  | 54.5  | 55.6  | 56.4  |
| 32.5° | 52.6  | 49.8  | 47.4  | 44.9  | 43.5  | 44.6  | 46.8  | 48.7  | 50.6  | 52.3  | 53.1  |
| 35°   | 48.2  | 43.8  | 39.7  | 36.4  | 34.2  | 35.9  | 39.4  | 43.0  | 46.3  | 48.4  | 49.8  |
| 37.5° | 43.8  | 37.5  | 32.6  | 28.5  | 26.8  | 28.2  | 32.0  | 37.0  | 41.9  | 44.6  | 46.5  |
| 40°   | 39.1  | 31.2  | 25.5  | 22.2  | 20.5  | 21.9  | 25.7  | 30.7  | 37.2  | 40.8  | 43.2  |
| 42.5° | 34.5  | 25.7  | 20.5  | 17.2  | 16.4  | 17.2  | 20.3  | 25.2  | 32.3  | 36.7  | 40.0  |
| 45°   | 29.8  | 21.3  | 16.4  | 14.0  | 13.1  | 14.0  | 16.4  | 20.5  | 27.6  | 32.6  | 36.4  |
| 47.5° | 25.7  | 18.1  | 13.7  | 11.5  | 10.9  | 11.8  | 13.7  | 17.2  | 23.3  | 28.2  | 32.6  |
| 50°   | 22.4  | 15.9  | 11.8  | 9.9   | 9.3   | 10.1  | 11.8  | 14.5  | 19.7  | 24.1  | 28.7  |
| 52.5° | 20.3  | 14.8  | 10.4  | 8.5   | 8.2   | 8.8   | 10.1  | 12.3  | 16.7  | 20.5  | 24.9  |
| 55°   | 19.7  | 14.8  | 9.6   | 7.7   | 7.4   | 7.9   | 9.0   | 10.7  | 14.5  | 17.8  | 21.6  |
| 57.5° | 20.3  | 15.9  | 9.0   | 6.6   | 6.3   | 6.8   | 7.9   | 9.3   | 12.6  | 15.3  | 18.9  |
| 60°   | 20.3  | 16.1  | 7.9   | 5.2   | 4.9   | 5.5   | 6.6   | 8.2   | 11.2  | 13.4  | 16.4  |
| 62.5° | 18.3  | 14.8  | 6.6   | 4.1   | 3.6   | 4.1   | 5.5   | 6.8   | 9.9   | 12.0  | 14.5  |
| 65°   | 15.9  | 12.6  | 5.5   | 3.0   | 2.5   | 3.0   | 4.4   | 5.7   | 8.5   | 10.4  | 13.1  |
| 67.5° | 12.9  | 9.6   | 4.1   | 2.2   | 1.6   | 2.2   | 3.3   | 4.7   | 7.1   | 9.0   | 11.8  |
| 70°   | 9.6   | 6.8   | 3.3   | 1.9   | 1.6   | 1.9   | 3.0   | 4.4   | 6.3   | 8.2   | 10.9  |
| 72.5° | 7.1   | 4.7   | 2.7   | 1.9   | 1.4   | 1.9   | 2.7   | 4.1   | 6.0   | 7.9   | 10.4  |
| 75°   | 6.0   | 3.8   | 2.5   | 1.6   | 1.4   | 1.6   | 2.5   | 3.8   | 5.5   | 7.4   | 9.9   |
| 77.5° | 5.7   | 3.6   | 2.2   | 1.4   | 1.1   | 1.4   | 2.2   | 3.3   | 4.9   | 6.8   | 9.6   |
| 80°   | 4.9   | 3.0   | 1.9   | 1.1   | 0.8   | 1.1   | 1.9   | 2.7   | 3.8   | 5.2   | 7.4   |
| 82.5° | 3.8   | 2.5   | 1.4   | 0.5   | 0.3   | 0.5   | 1.4   | 1.6   | 2.5   | 3.0   | 4.4   |
| 85°   | 2.5   | 1.4   | 0.5   | 0.0   | 0.0   | 0.0   | 0.5   | 1.1   | 1.1   | 1.4   | 2.2   |
| 87.5° | 1.1   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.5   | 0.8   |
| 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: P630070  
 CATALOG NUMBER: GWS-SA1C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°  | 295°  | 305°  | 315°  | 325°  | 335°  | 345°  | 355°   | 359°   | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0°    | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2 | 123.2  | 123.2  | 123.2  |
| 2.5°  | 115.5 | 115.8 | 116.3 | 117.1 | 119.1 | 120.7 | 122.3 | 124.5  | 125.6  | 125.6  |
| 5°    | 104.6 | 104.8 | 105.1 | 106.2 | 108.9 | 111.1 | 114.7 | 119.1  | 121.3  | 121.8  |
| 7.5°  | 96.1  | 96.6  | 97.2  | 98.0  | 100.7 | 103.7 | 108.4 | 116.6  | 120.7  | 121.5  |
| 10°   | 91.1  | 92.0  | 93.1  | 94.7  | 97.2  | 100.5 | 108.4 | 123.2  | 130.0  | 131.4  |
| 12.5° | 87.3  | 88.7  | 89.8  | 91.7  | 94.7  | 99.9  | 115.8 | 141.8  | 153.8  | 157.1  |
| 15°   | 83.5  | 85.1  | 86.8  | 88.7  | 92.0  | 101.8 | 130.0 | 175.2  | 195.2  | 197.6  |
| 17.5° | 79.6  | 81.6  | 83.8  | 85.9  | 90.1  | 106.5 | 152.5 | 221.4  | 249.4  | 254.8  |
| 20°   | 75.3  | 77.7  | 80.7  | 83.5  | 88.1  | 113.9 | 183.7 | 276.4  | 311.5  | 323.3  |
| 22.5° | 70.6  | 73.6  | 77.2  | 80.7  | 85.9  | 122.9 | 221.4 | 335.6  | 384.6  | 392.2  |
| 25°   | 66.8  | 69.8  | 73.1  | 76.6  | 82.4  | 133.8 | 267.1 | 408.9  | 453.5  | 460.9  |
| 27.5° | 63.2  | 66.2  | 69.2  | 72.5  | 78.8  | 148.1 | 322.2 | 486.9  | 533.5  | 541.1  |
| 30°   | 59.4  | 63.0  | 66.0  | 69.2  | 75.5  | 165.6 | 385.7 | 573.4  | 617.5  | 624.6  |
| 32.5° | 56.1  | 59.7  | 62.7  | 66.0  | 73.1  | 184.8 | 452.4 | 650.1  | 685.9  | 685.9  |
| 35°   | 53.4  | 57.2  | 59.4  | 63.8  | 71.2  | 197.1 | 515.7 | 723.1  | 750.2  | 749.1  |
| 37.5° | 50.4  | 55.0  | 56.7  | 59.7  | 68.7  | 198.4 | 575.1 | 800.3  | 820.3  | 813.2  |
| 40°   | 47.4  | 52.3  | 54.7  | 56.4  | 66.0  | 187.2 | 640.2 | 871.2  | 888.2  | 878.9  |
| 42.5° | 44.6  | 48.4  | 52.0  | 53.9  | 64.3  | 167.5 | 692.5 | 947.0  | 967.3  | 959.1  |
| 45°   | 41.9  | 45.2  | 47.4  | 50.9  | 65.4  | 153.8 | 737.4 | 1035.4 | 1071.0 | 1065.0 |
| 47.5° | 39.1  | 41.9  | 43.2  | 48.7  | 72.8  | 147.5 | 764.7 | 1172.3 | 1239.4 | 1234.4 |
| 50°   | 36.1  | 39.4  | 39.4  | 48.2  | 83.8  | 149.7 | 788.6 | 1370.5 | 1474.2 | 1472.6 |
| 52.5° | 33.1  | 36.7  | 36.1  | 52.3  | 92.2  | 159.8 | 815.7 | 1545.4 | 1725.7 | 1740.8 |
| 55°   | 30.1  | 33.4  | 33.9  | 60.5  | 97.2  | 168.6 | 710.8 | 1619.0 | 1940.6 | 1993.4 |
| 57.5° | 26.8  | 28.7  | 35.3  | 66.8  | 95.5  | 194.1 | 486.9 | 1632.4 | 2077.7 | 2191.1 |
| 60°   | 23.3  | 24.9  | 40.0  | 65.4  | 90.3  | 179.3 | 306.6 | 1512.0 | 2058.3 | 2202.0 |
| 62.5° | 20.3  | 23.0  | 42.2  | 57.8  | 92.0  | 155.5 | 195.4 | 1288.6 | 1873.0 | 2037.0 |
| 65°   | 17.8  | 22.2  | 38.3  | 52.3  | 93.1  | 105.4 | 131.9 | 1048.3 | 1692.1 | 1848.1 |
| 67.5° | 15.9  | 24.6  | 31.5  | 46.5  | 79.9  | 74.2  | 90.6  | 814.6  | 1422.7 | 1562.6 |
| 70°   | 14.5  | 25.2  | 25.7  | 40.0  | 61.9  | 47.6  | 59.7  | 548.2  | 980.7  | 1140.6 |
| 72.5° | 13.1  | 18.6  | 19.4  | 32.0  | 40.0  | 29.0  | 38.6  | 313.7  | 714.9  | 823.9  |
| 75°   | 12.6  | 12.6  | 13.4  | 20.8  | 22.2  | 21.1  | 24.9  | 187.2  | 512.7  | 592.3  |
| 77.5° | 11.8  | 9.6   | 8.5   | 13.4  | 12.0  | 15.1  | 14.8  | 83.2   | 222.3  | 240.3  |
| 80°   | 9.3   | 6.8   | 5.7   | 8.5   | 8.2   | 10.1  | 8.8   | 6.8    | 10.1   | 9.9    |
| 82.5° | 5.7   | 4.4   | 4.1   | 5.2   | 4.7   | 5.2   | 4.1   | 1.1    | 1.1    | 1.1    |
| 85°   | 2.7   | 2.5   | 2.2   | 2.2   | 2.5   | 2.2   | 1.6   | 0.5    | 0.3    | 0.3    |
| 87.5° | 1.4   | 1.4   | 1.1   | 0.8   | 1.1   | 1.1   | 0.8   | 0.3    | 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    |

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