

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: P629502

Luminaire Tested: GWS-SA1B-827-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-827-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

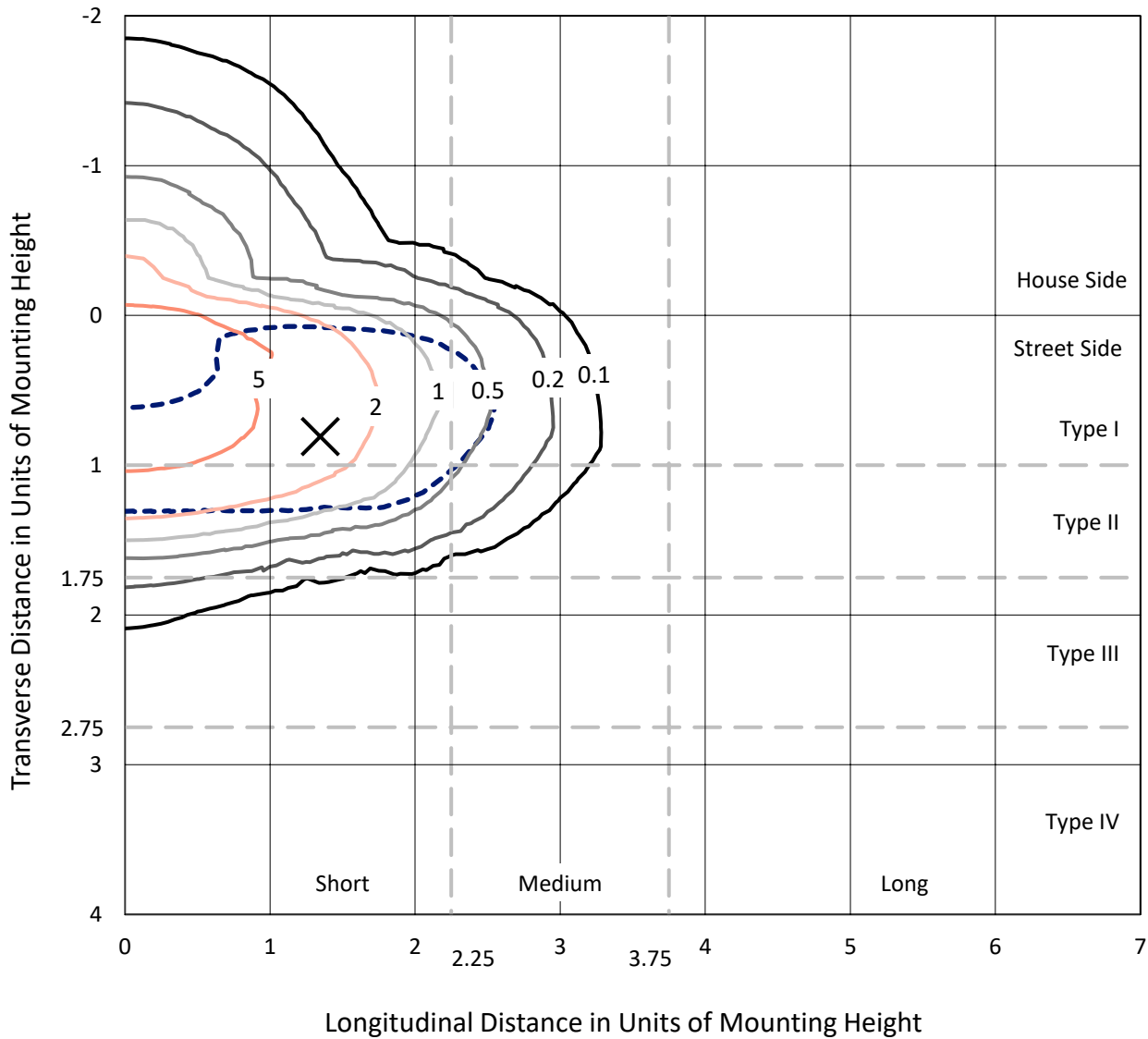
Lumens per Lamp: N/A  
Luminaire Lumens: 2682.9 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P629502  
 CATALOG NUMBER: GWS-SA1B-827-U-AFL-W

### Iso-Footcandle Lines of Horizontal Illumination

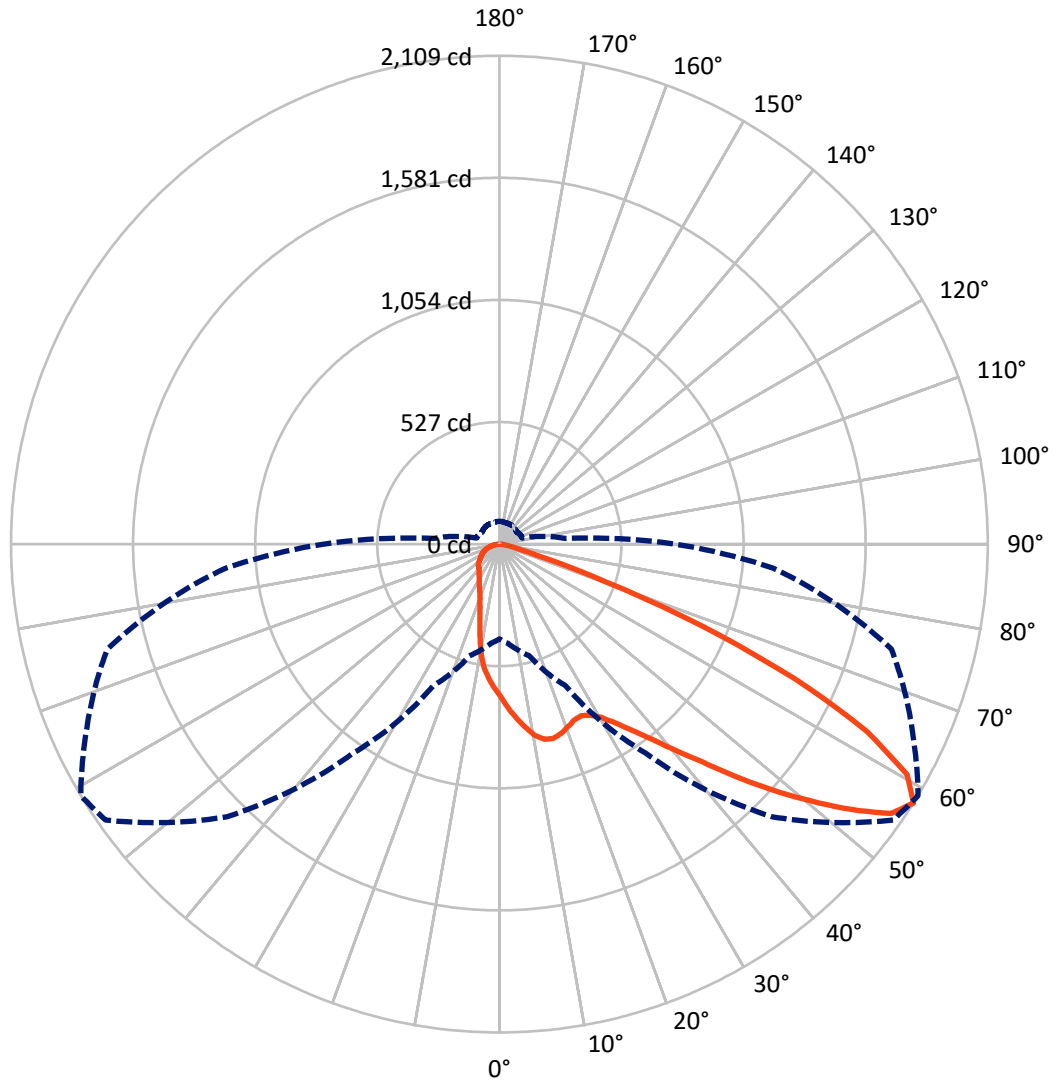
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P629502  
CATALOG NUMBER: GWS-SA1B-827-U-AFL-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P629502

CATALOG NUMBER: GWS-SA1B-827-U-AFL-W

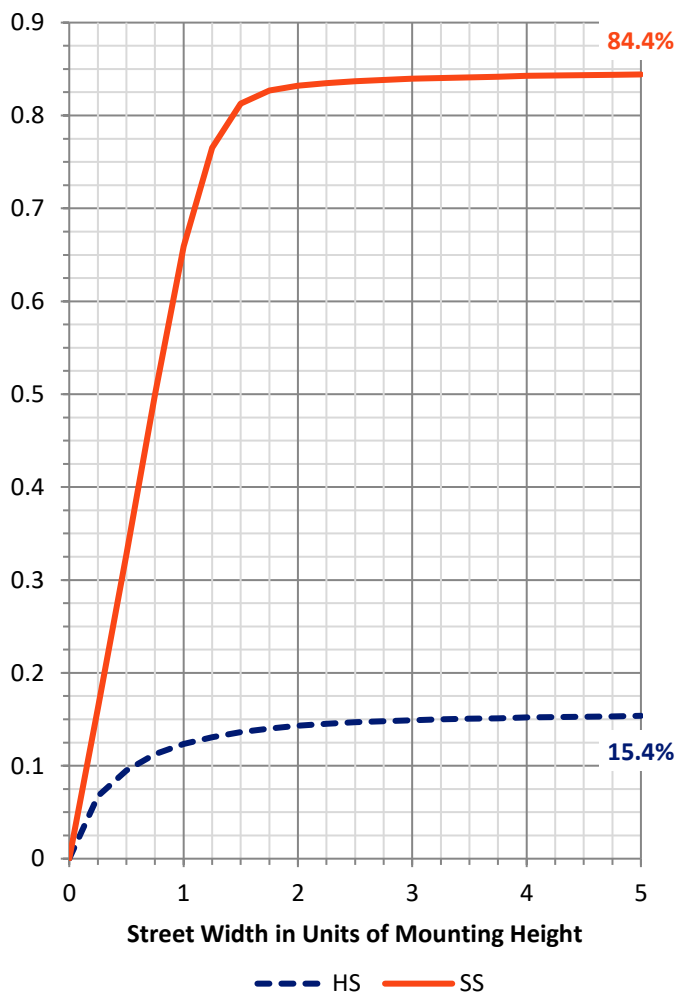
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 416.4    | 0.0    | 416.4  |
|                    | % Fixture | 15.5     | 0.0    | 15.5   |
| <b>Street Side</b> | Lumens    | 2266.5   | 0.0    | 2266.5 |
|                    | % Fixture | 84.5     | 0.0    | 84.5   |
| <b>Total</b>       | Lumens    | 2682.9   | 0.0    | 2682.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.2   | 2.3       |
| 10°-20°   | 155.0  | 5.8       |
| 20°-30°   | 251.2  | 9.4       |
| 30°-40°   | 404.1  | 15.1      |
| 40°-50°   | 627.5  | 23.4      |
| 50°-60°   | 675.9  | 25.2      |
| 60°-70°   | 392.3  | 14.6      |
| 70°-80°   | 102.4  | 3.8       |
| 80°-90°   | 13.5   | 0.5       |
| 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°    | 2682.9 | 100.0     |
| 0°-180°   | 2682.9 | 100.0     |

**Coefficient of Utilization**



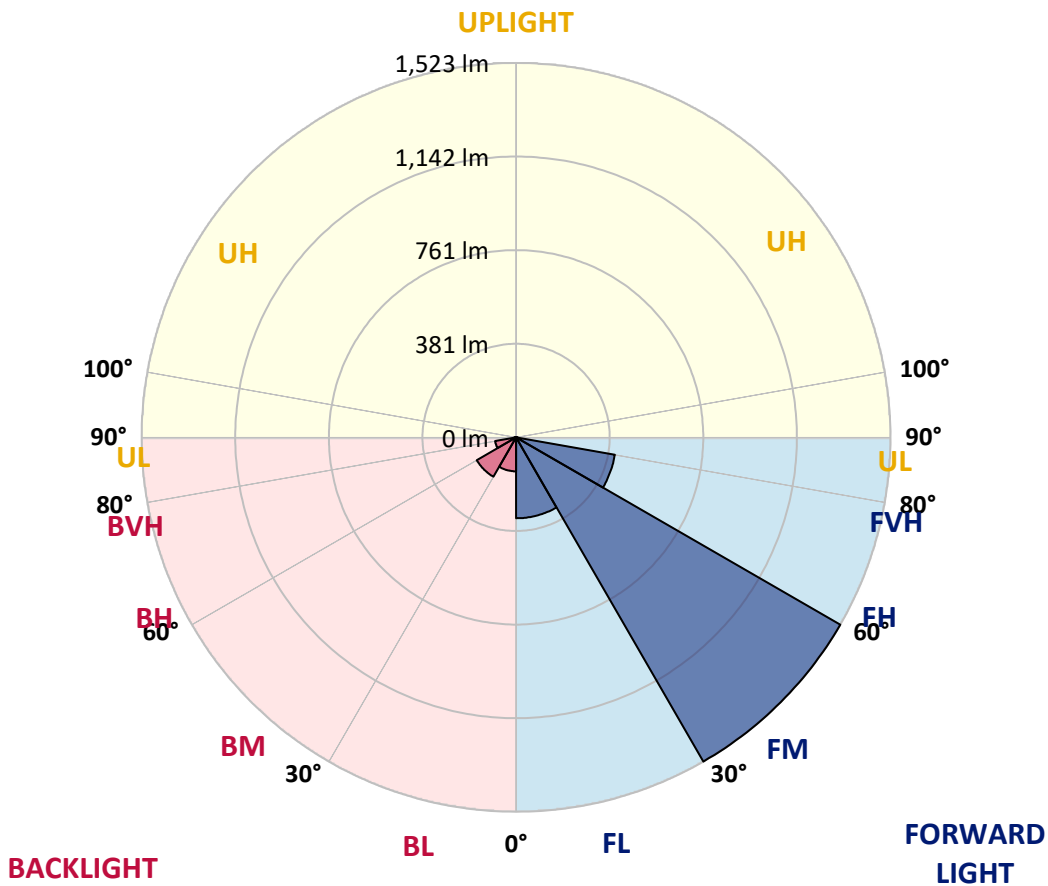
REPORT NUMBER: P629502

CATALOG NUMBER: GWS-SA1B-827-U-AFL-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 329.2  | 12.3      |                         |      |        |
| FM (30°-60°)   | 1522.8 | 56.8      |                         |      |        |
| FH (60°-80°)   | 408.1  | 15.2      |                         |      | G0/660 |
| FVH (80°-90°)  | 6.5    | 0.2       |                         |      | G0/10  |
| BL (0°-30°)    | 138.1  | 5.1       | B1/500                  |      |        |
| BM (30°-60°)   | 184.6  | 6.9       | B0/220                  |      |        |
| BH (60°-80°)   | 86.6   | 3.2       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 7.0    | 0.3       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**  
 Type II Short





REPORT NUMBER: P629502  
 CATALOG NUMBER: GWS-SA1B-827-U-AFL-W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 658.6  | 658.6  | 658.6  | 658.6  | 658.6  | 658.6  | 658.6  | 658.6  | 658.6  | 658.6  | 658.6  |
| 2.5°  | 747.0  | 740.8  | 745.1  | 737.4  | 734.1  | 725.6  | 714.7  | 707.3  | 696.0  | 681.3  | 668.4  |
| 5°    | 821.2  | 816.9  | 817.8  | 809.5  | 802.1  | 788.0  | 765.5  | 753.0  | 733.8  | 704.1  | 676.5  |
| 7.5°  | 819.0  | 824.1  | 826.9  | 834.1  | 836.1  | 834.8  | 814.6  | 797.2  | 776.1  | 731.5  | 690.0  |
| 10°   | 734.1  | 743.8  | 752.5  | 777.0  | 806.9  | 844.6  | 849.4  | 839.0  | 817.6  | 766.4  | 706.0  |
| 12.5° | 641.8  | 649.2  | 656.9  | 686.4  | 732.1  | 807.6  | 858.8  | 865.2  | 856.7  | 801.0  | 724.1  |
| 15°   | 596.5  | 599.9  | 607.2  | 626.7  | 663.1  | 747.0  | 842.4  | 870.5  | 885.8  | 837.6  | 744.5  |
| 17.5° | 594.6  | 596.1  | 599.7  | 610.1  | 635.4  | 700.2  | 812.7  | 859.9  | 908.7  | 876.4  | 768.3  |
| 20°   | 633.7  | 629.7  | 627.4  | 627.2  | 639.7  | 684.5  | 784.0  | 842.9  | 919.4  | 916.0  | 793.8  |
| 22.5° | 687.9  | 689.2  | 684.3  | 672.2  | 670.7  | 695.6  | 769.7  | 825.8  | 922.6  | 951.2  | 817.4  |
| 25°   | 764.7  | 771.4  | 756.8  | 733.8  | 722.4  | 727.9  | 778.5  | 820.5  | 922.3  | 980.4  | 832.2  |
| 27.5° | 854.5  | 859.6  | 844.8  | 814.6  | 791.2  | 778.0  | 805.0  | 836.1  | 925.5  | 1005.7 | 841.0  |
| 30°   | 956.6  | 958.3  | 938.1  | 906.4  | 872.2  | 843.9  | 849.0  | 868.4  | 941.9  | 1039.0 | 851.4  |
| 32.5° | 1081.5 | 1088.7 | 1058.1 | 1007.8 | 960.0  | 923.8  | 908.1  | 920.6  | 977.4  | 1078.3 | 867.5  |
| 35°   | 1239.9 | 1242.4 | 1203.5 | 1131.5 | 1063.9 | 1013.7 | 980.8  | 987.4  | 1031.4 | 1133.2 | 891.7  |
| 37.5° | 1389.3 | 1391.8 | 1350.4 | 1283.6 | 1186.9 | 1118.1 | 1070.5 | 1067.5 | 1100.6 | 1210.9 | 931.1  |
| 40°   | 1484.2 | 1491.1 | 1472.6 | 1430.7 | 1338.4 | 1245.6 | 1181.0 | 1170.6 | 1191.2 | 1305.9 | 986.1  |
| 42.5° | 1535.2 | 1538.2 | 1537.8 | 1543.3 | 1488.3 | 1396.1 | 1305.7 | 1284.9 | 1298.7 | 1408.4 | 1041.6 |
| 45°   | 1535.5 | 1543.1 | 1563.3 | 1616.0 | 1618.4 | 1561.0 | 1463.2 | 1430.7 | 1418.1 | 1511.7 | 1099.6 |
| 47.5° | 1466.8 | 1474.9 | 1530.4 | 1634.1 | 1710.6 | 1723.7 | 1651.9 | 1586.7 | 1533.5 | 1600.7 | 1147.2 |
| 50°   | 1258.6 | 1279.0 | 1384.8 | 1568.2 | 1728.7 | 1854.0 | 1831.9 | 1743.5 | 1636.0 | 1669.4 | 1177.1 |
| 52.5° | 1077.9 | 1077.1 | 1142.3 | 1382.0 | 1653.0 | 1911.4 | 2006.0 | 1904.8 | 1737.4 | 1713.1 | 1184.6 |
| 55°   | 789.3  | 793.6  | 860.3  | 1056.9 | 1450.9 | 1855.9 | 2101.8 | 2053.2 | 1853.8 | 1736.3 | 1181.6 |
| 57.5° | 409.3  | 430.8  | 499.2  | 674.5  | 1102.4 | 1664.7 | 2076.3 | 2108.6 | 1972.0 | 1752.7 | 1185.6 |
| 60°   | 206.8  | 202.7  | 227.2  | 322.0  | 638.8  | 1300.2 | 1919.1 | 2022.1 | 1993.4 | 1765.6 | 1188.0 |
| 62.5° | 138.1  | 136.9  | 130.1  | 149.2  | 261.0  | 770.0  | 1636.0 | 1780.3 | 1845.1 | 1735.4 | 1156.7 |
| 65°   | 119.6  | 117.3  | 104.8  | 104.1  | 126.7  | 319.4  | 1199.2 | 1399.5 | 1525.0 | 1601.1 | 1081.7 |
| 67.5° | 107.7  | 104.3  | 91.6   | 85.4   | 91.0   | 140.3  | 675.8  | 938.7  | 1126.1 | 1354.0 | 917.4  |
| 70°   | 96.1   | 94.4   | 81.8   | 72.7   | 72.1   | 85.6   | 248.9  | 484.5  | 689.0  | 923.8  | 670.7  |
| 72.5° | 86.1   | 83.1   | 72.3   | 63.7   | 59.3   | 60.6   | 108.0  | 186.6  | 356.6  | 576.2  | 401.2  |
| 75°   | 74.6   | 72.3   | 62.9   | 54.2   | 48.9   | 44.4   | 65.9   | 86.3   | 162.6  | 273.9  | 189.4  |
| 77.5° | 57.6   | 56.1   | 49.7   | 43.1   | 40.0   | 33.1   | 40.0   | 54.4   | 75.2   | 115.4  | 98.6   |
| 80°   | 33.4   | 34.4   | 37.0   | 33.6   | 29.5   | 23.6   | 26.1   | 31.4   | 45.1   | 62.5   | 55.9   |
| 82.5° | 16.8   | 17.9   | 24.0   | 19.5   | 17.6   | 13.8   | 15.5   | 18.5   | 23.6   | 34.6   | 21.9   |
| 85°   | 1.3    | 1.3    | 4.3    | 4.9    | 6.0    | 4.9    | 6.2    | 7.6    | 10.8   | 13.8   | 7.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.9    | 1.7    | 3.2    | 2.1    |
| 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: P629502  
 CATALOG NUMBER: GWS-SA1B-827-U-AFL-W

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 658.6 | 658.6 | 658.6 | 658.6 | 658.6 | 658.6 | 658.6 | 658.6 | 658.6 | 658.6 | 658.6 |
| 2.5°  | 659.7 | 650.1 | 638.6 | 629.1 | 614.6 | 606.8 | 597.0 | 584.9 | 580.0 | 577.8 | 576.4 |
| 5°    | 661.1 | 644.1 | 619.5 | 596.8 | 571.7 | 551.9 | 529.8 | 506.7 | 493.5 | 490.3 | 488.0 |
| 7.5°  | 666.0 | 642.2 | 603.1 | 565.7 | 519.0 | 475.8 | 433.7 | 391.9 | 370.6 | 362.4 | 361.7 |
| 10°   | 672.8 | 641.4 | 586.4 | 524.3 | 445.6 | 377.2 | 327.9 | 295.2 | 281.4 | 276.9 | 275.4 |
| 12.5° | 681.3 | 640.8 | 564.5 | 466.9 | 360.7 | 296.2 | 268.0 | 262.7 | 264.6 | 264.2 | 264.2 |
| 15°   | 692.0 | 641.6 | 538.1 | 401.9 | 291.8 | 257.1 | 257.6 | 263.9 | 269.7 | 270.7 | 270.7 |
| 17.5° | 703.7 | 640.8 | 499.8 | 336.8 | 250.4 | 247.8 | 256.5 | 265.2 | 270.5 | 271.2 | 271.2 |
| 20°   | 716.4 | 637.3 | 451.4 | 275.4 | 232.3 | 241.9 | 251.4 | 258.2 | 261.4 | 262.2 | 262.2 |
| 22.5° | 723.9 | 627.1 | 398.9 | 233.1 | 220.8 | 232.7 | 238.9 | 245.9 | 246.3 | 240.2 | 240.1 |
| 25°   | 722.8 | 608.0 | 339.0 | 205.9 | 208.5 | 218.9 | 226.8 | 221.9 | 215.9 | 212.5 | 211.9 |
| 27.5° | 715.6 | 579.3 | 278.0 | 185.3 | 194.0 | 205.7 | 203.2 | 199.1 | 197.6 | 193.8 | 193.4 |
| 30°   | 706.6 | 544.0 | 223.2 | 169.2 | 178.9 | 189.6 | 185.9 | 185.5 | 184.0 | 179.8 | 179.8 |
| 32.5° | 697.9 | 507.5 | 181.9 | 157.3 | 169.2 | 170.0 | 175.3 | 175.7 | 174.9 | 167.7 | 167.0 |
| 35°   | 695.4 | 471.0 | 153.9 | 147.9 | 159.8 | 159.4 | 167.0 | 166.8 | 153.7 | 143.7 | 143.5 |
| 37.5° | 702.8 | 434.0 | 137.3 | 140.1 | 146.8 | 151.7 | 157.7 | 146.8 | 142.4 | 136.4 | 136.0 |
| 40°   | 718.5 | 399.8 | 128.8 | 135.6 | 138.4 | 145.6 | 136.2 | 136.9 | 135.8 | 131.3 | 130.7 |
| 42.5° | 739.2 | 370.8 | 124.1 | 134.1 | 133.7 | 135.6 | 125.2 | 128.2 | 129.9 | 126.5 | 126.0 |
| 45°   | 759.3 | 345.4 | 121.6 | 128.4 | 130.3 | 119.4 | 117.3 | 120.1 | 122.8 | 121.4 | 120.9 |
| 47.5° | 774.0 | 323.5 | 120.3 | 120.7 | 126.0 | 113.9 | 110.5 | 111.8 | 115.0 | 115.6 | 115.4 |
| 50°   | 778.5 | 304.8 | 118.8 | 114.3 | 113.1 | 108.4 | 105.8 | 105.4 | 109.2 | 111.8 | 112.2 |
| 52.5° | 769.8 | 288.2 | 114.8 | 108.6 | 103.1 | 103.9 | 102.9 | 101.0 | 104.8 | 108.4 | 108.8 |
| 55°   | 757.0 | 278.8 | 108.6 | 103.1 | 96.7  | 99.7  | 100.1 | 98.4  | 100.9 | 103.3 | 103.3 |
| 57.5° | 757.9 | 284.3 | 102.6 | 98.0  | 91.0  | 95.0  | 97.1  | 96.3  | 96.3  | 98.2  | 98.4  |
| 60°   | 764.2 | 292.2 | 98.6  | 91.6  | 85.4  | 89.5  | 94.2  | 93.5  | 91.8  | 94.2  | 94.2  |
| 62.5° | 746.2 | 281.6 | 95.9  | 85.4  | 79.3  | 84.2  | 89.9  | 89.5  | 87.6  | 91.6  | 92.0  |
| 65°   | 693.4 | 253.3 | 92.9  | 77.6  | 73.3  | 78.9  | 83.9  | 85.2  | 83.5  | 88.8  | 89.7  |
| 67.5° | 581.2 | 213.0 | 87.1  | 70.3  | 67.2  | 72.5  | 77.2  | 79.1  | 77.8  | 84.0  | 84.8  |
| 70°   | 433.3 | 172.4 | 77.8  | 62.1  | 59.9  | 64.6  | 68.9  | 69.7  | 69.9  | 77.2  | 78.0  |
| 72.5° | 276.3 | 134.1 | 65.5  | 53.1  | 51.4  | 55.0  | 58.2  | 61.2  | 62.5  | 69.5  | 69.3  |
| 75°   | 154.1 | 99.7  | 52.7  | 45.0  | 41.9  | 44.8  | 48.5  | 52.1  | 55.9  | 66.1  | 67.2  |
| 77.5° | 88.8  | 70.1  | 41.7  | 36.1  | 32.5  | 35.5  | 38.7  | 43.8  | 55.2  | 64.0  | 62.9  |
| 80°   | 50.1  | 45.5  | 31.5  | 26.4  | 24.2  | 26.4  | 28.9  | 38.5  | 43.4  | 47.2  | 47.8  |
| 82.5° | 23.4  | 25.5  | 21.5  | 16.2  | 16.2  | 17.8  | 20.0  | 29.8  | 32.9  | 26.8  | 23.4  |
| 85°   | 8.5   | 11.5  | 10.6  | 8.3   | 7.4   | 7.2   | 12.5  | 17.0  | 10.6  | 9.4   | 8.1   |
| 87.5° | 2.3   | 3.2   | 3.0   | 2.1   | 1.1   | 0.9   | 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)