

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: P642997

Luminaire Tested: GWS-SA6E-722-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-722-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

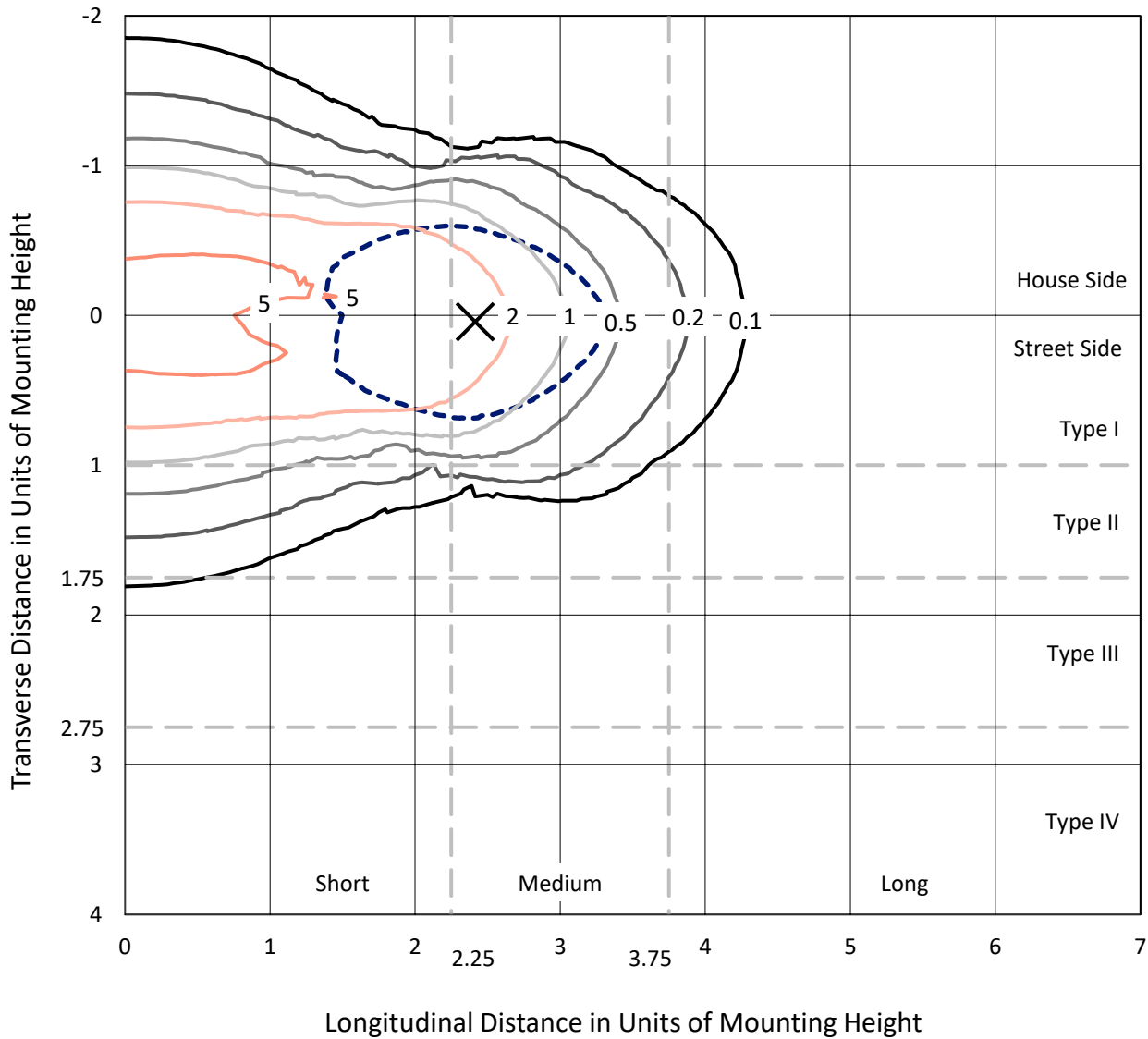
Lumens per Lamp: N/A  
Luminaire Lumens: 32913.1 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

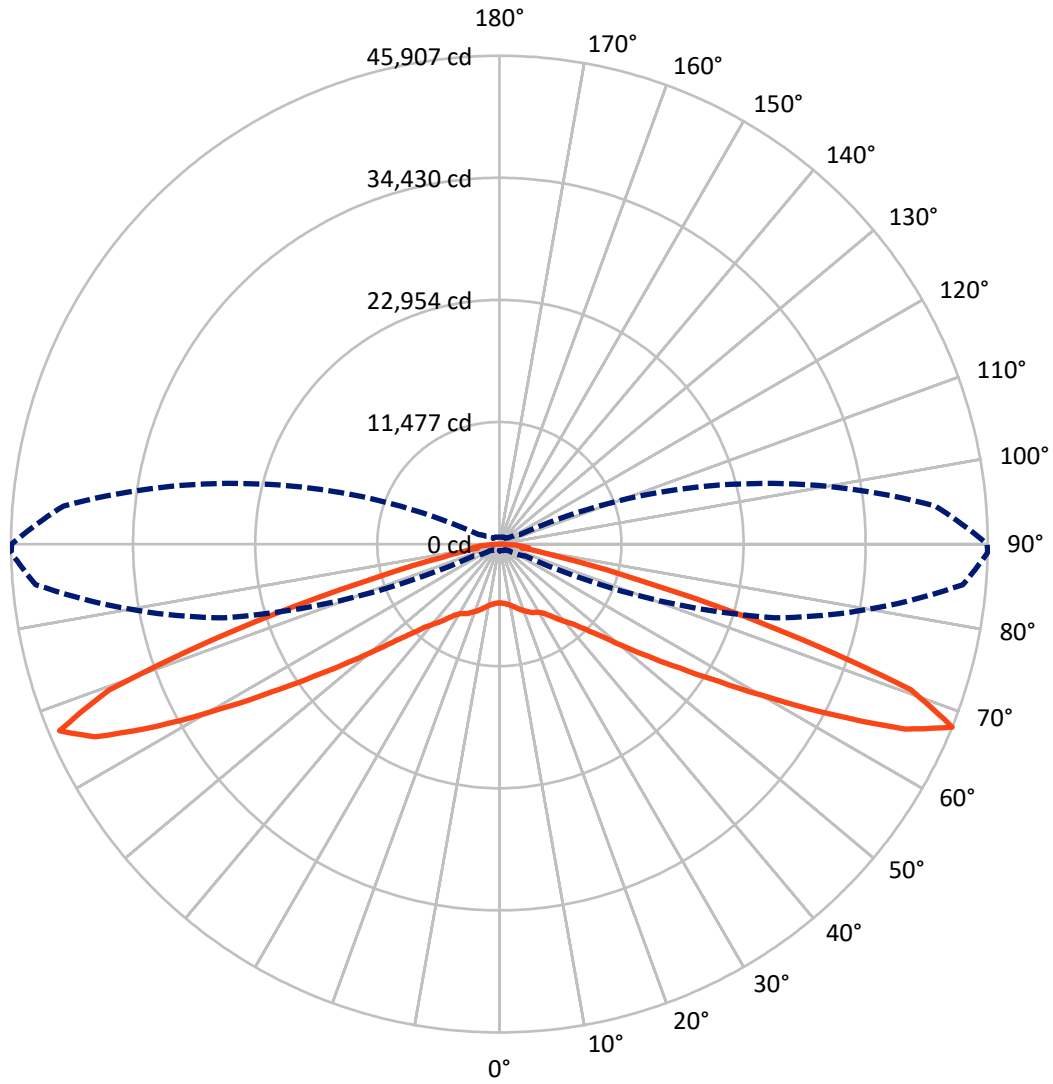
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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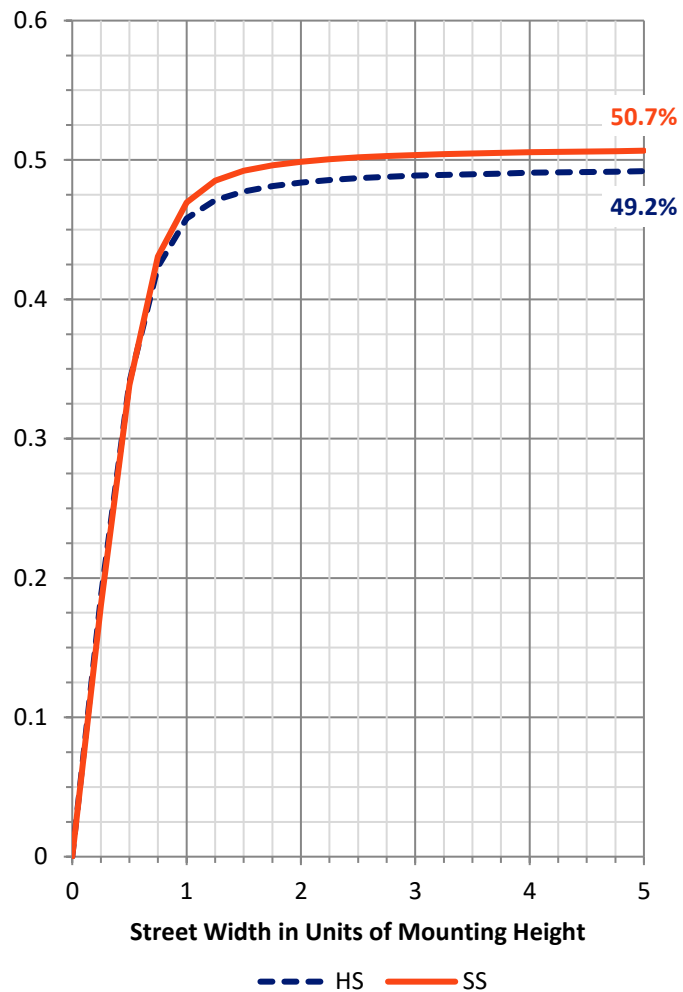
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16312.3  | 0.0    | 16312.3 |
|                    | % Fixture | 49.6     | 0.0    | 49.6    |
| <b>Street Side</b> | Lumens    | 16600.8  | 0.0    | 16600.8 |
|                    | % Fixture | 50.4     | 0.0    | 50.4    |
| <b>Total</b>       | Lumens    | 32913.1  | 0.0    | 32913.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 554.1   | 1.7       |
| 10°-20°   | 1804.3  | 5.5       |
| 20°-30°   | 3050.1  | 9.3       |
| 30°-40°   | 4185.8  | 12.7      |
| 40°-50°   | 5337.9  | 16.2      |
| 50°-60°   | 6697.2  | 20.3      |
| 60°-70°   | 8077.4  | 24.5      |
| 70°-80°   | 2922.1  | 8.9       |
| 80°-90°   | 284.2   | 0.9       |
| 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°    | 32913.1 | 100.0     |
| 0°-180°   | 32913.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P642997

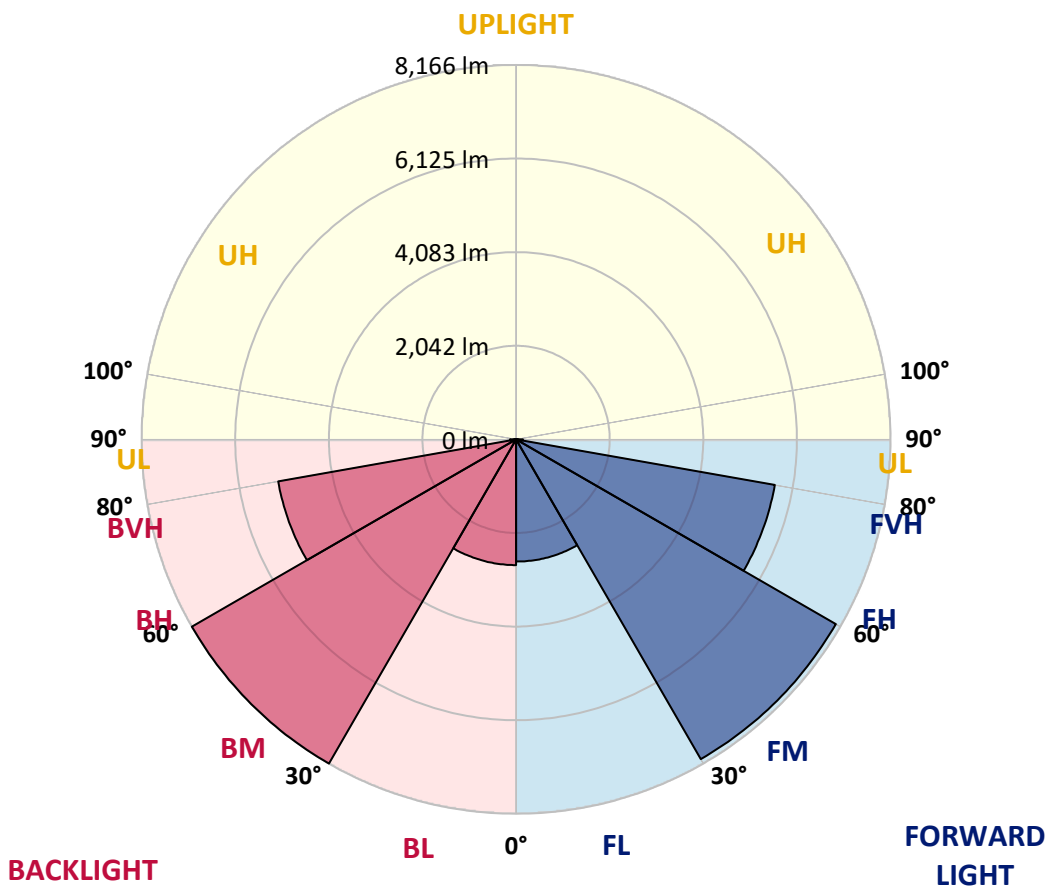
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2665.7 | 8.1       |                         |      |         |
| FM (30°-60°)   | 8054.5 | 24.5      |                         |      |         |
| FH (60°-80°)   | 5730.7 | 17.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 149.9  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 2742.8 | 8.3       | B4/5000                 |      |         |
| BM (30°-60°)   | 8166.4 | 24.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 5268.9 | 16.0      | B5                      |      | G5      |
| BVH (80°-90°)  | 134.2  | 0.4       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type I Medium





REPORT NUMBER: P642997  
 CATALOG NUMBER: GWS-SA6E-722-U-T1-W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     | 89°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 5524.2 | 5524.2 | 5524.2 | 5524.2 | 5524.2 | 5524.2 | 5524.2 | 5524.2  | 5524.2  | 5524.2  | 5524.2  |
| 2.5°  | 5540.7 | 5536.0 | 5524.2 | 5559.7 | 5552.6 | 5554.9 | 5569.1 | 5559.7  | 5543.1  | 5514.7  | 5554.9  |
| 5°    | 5696.8 | 5694.4 | 5668.4 | 5689.7 | 5666.0 | 5649.5 | 5647.1 | 5623.5  | 5604.6  | 5573.8  | 5616.4  |
| 7.5°  | 5848.0 | 5845.7 | 5824.4 | 5862.2 | 5843.3 | 5824.4 | 5803.1 | 5755.9  | 5710.9  | 5666.0  | 5713.3  |
| 10°   | 5963.9 | 5961.5 | 5956.8 | 6011.1 | 6015.9 | 6023.0 | 6013.5 | 5933.1  | 5855.1  | 5800.8  | 5848.0  |
| 12.5° | 6030.1 | 6037.1 | 6049.0 | 6148.2 | 6197.9 | 6245.2 | 6257.0 | 6190.8  | 6060.8  | 5982.8  | 6039.5  |
| 15°   | 5985.1 | 5999.3 | 6058.4 | 6238.1 | 6375.2 | 6481.5 | 6526.4 | 6472.1  | 6304.3  | 6174.2  | 6238.1  |
| 17.5° | 5770.0 | 5781.9 | 5897.7 | 6171.9 | 6474.4 | 6720.3 | 6793.6 | 6760.5  | 6573.7  | 6415.4  | 6476.8  |
| 20°   | 5472.2 | 5498.2 | 5623.5 | 6006.4 | 6457.9 | 6885.7 | 7081.9 | 7070.1  | 6866.8  | 6623.4  | 6696.6  |
| 22.5° | 5202.7 | 5233.5 | 5365.8 | 5788.9 | 6346.8 | 6928.3 | 7372.7 | 7403.4  | 7133.9  | 6831.4  | 6890.5  |
| 25°   | 4900.2 | 4928.5 | 5098.7 | 5531.3 | 6155.3 | 6895.2 | 7620.9 | 7760.4  | 7436.5  | 7070.1  | 7124.5  |
| 27.5° | 4590.5 | 4611.8 | 4779.6 | 5240.5 | 5904.8 | 6833.7 | 7817.1 | 8152.7  | 7734.4  | 7235.6  | 7273.4  |
| 30°   | 4318.7 | 4347.0 | 4500.7 | 4949.8 | 5630.6 | 6710.8 | 7977.8 | 8571.1  | 8077.1  | 7422.3  | 7453.1  |
| 32.5° | 4056.3 | 4079.9 | 4247.7 | 4663.8 | 5339.8 | 6521.7 | 8122.0 | 9062.8  | 8585.3  | 7769.8  | 7769.8  |
| 35°   | 3725.3 | 3767.9 | 3957.0 | 4389.6 | 5065.6 | 6271.2 | 8226.0 | 9634.8  | 9280.3  | 8282.8  | 8285.1  |
| 37.5° | 3420.4 | 3444.1 | 3642.6 | 4079.9 | 4777.2 | 5987.5 | 8235.5 | 10228.2 | 10159.6 | 8935.2  | 8939.9  |
| 40°   | 3072.9 | 3103.7 | 3316.4 | 3749.0 | 4446.3 | 5689.7 | 8145.7 | 10781.3 | 11081.5 | 9606.5  | 9580.5  |
| 42.5° | 2720.7 | 2765.6 | 2968.9 | 3392.1 | 4089.4 | 5325.6 | 7906.9 | 11308.4 | 12251.6 | 10384.2 | 10320.3 |
| 45°   | 2380.3 | 2408.7 | 2612.0 | 3011.5 | 3680.4 | 4890.7 | 7524.0 | 11814.3 | 13641.5 | 11566.1 | 11473.9 |
| 47.5° | 1997.4 | 2009.2 | 2219.6 | 2602.5 | 3257.3 | 4406.1 | 6975.6 | 12265.8 | 15168.5 | 13130.9 | 12972.5 |
| 50°   | 1657.0 | 1673.6 | 1839.0 | 2167.6 | 2739.6 | 3831.7 | 6292.4 | 12530.5 | 17113.9 | 15265.4 | 14991.2 |
| 52.5° | 1340.3 | 1356.8 | 1489.2 | 1751.6 | 2264.5 | 3176.9 | 5446.2 | 12469.0 | 19087.7 | 17915.2 | 17515.8 |
| 55°   | 1082.6 | 1094.4 | 1184.3 | 1389.9 | 1782.3 | 2526.9 | 4446.3 | 11918.3 | 21278.9 | 21375.8 | 20515.4 |
| 57.5° | 914.8  | 919.5  | 981.0  | 1106.3 | 1392.3 | 1947.8 | 3432.2 | 10618.2 | 23576.5 | 25791.4 | 24377.9 |
| 60°   | 817.9  | 820.2  | 848.6  | 926.6  | 1099.2 | 1486.8 | 2515.1 | 8547.5  | 25956.9 | 31315.6 | 29377.3 |
| 62.5° | 756.4  | 756.4  | 780.1  | 825.0  | 912.4  | 1144.1 | 1848.5 | 6138.8  | 27665.9 | 37326.8 | 35400.3 |
| 65°   | 697.3  | 697.3  | 713.9  | 751.7  | 799.0  | 933.7  | 1387.6 | 3959.4  | 28505.1 | 42352.2 | 41924.3 |
| 67.5° | 621.7  | 624.0  | 635.9  | 676.0  | 718.6  | 780.1  | 1051.9 | 2678.2  | 26762.9 | 43742.1 | 45907.3 |
| 70°   | 550.8  | 553.1  | 569.7  | 595.7  | 631.1  | 673.7  | 822.6  | 1846.1  | 19480.1 | 36430.9 | 41047.4 |
| 72.5° | 472.8  | 482.2  | 494.0  | 522.4  | 543.7  | 574.4  | 671.3  | 1196.1  | 11334.4 | 23434.7 | 27134.1 |
| 75°   | 387.7  | 399.5  | 413.7  | 442.0  | 456.2  | 468.0  | 553.1  | 853.3   | 5453.3  | 11875.7 | 13523.3 |
| 77.5° | 300.2  | 312.0  | 328.6  | 354.6  | 364.0  | 378.2  | 423.1  | 617.0   | 2612.0  | 5264.2  | 5675.5  |
| 80°   | 200.9  | 205.7  | 219.8  | 250.6  | 267.1  | 276.6  | 312.0  | 420.8   | 1134.6  | 2113.2  | 2094.3  |
| 82.5° | 122.9  | 125.3  | 130.0  | 148.9  | 156.0  | 165.5  | 203.3  | 257.7   | 541.3   | 2401.6  | 2753.8  |
| 85°   | 44.9   | 42.5   | 40.2   | 52.0   | 61.5   | 70.9   | 94.6   | 130.0   | 236.4   | 1649.9  | 1846.1  |
| 87.5° | 0.0    | 0.0    | 0.0    | 2.4    | 4.7    | 4.7    | 9.5    | 18.9    | 56.7    | 617.0   | 423.1   |
| 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: P642997  
 CATALOG NUMBER: GWS-SA6E-722-U-T1-W

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5524.2  | 5524.2  | 5524.2  | 5524.2  | 5524.2 | 5524.2 | 5524.2 | 5524.2 | 5524.2 | 5524.2 | 5524.2 |
| 2.5°  | 5543.1  | 5517.1  | 5550.2  | 5573.8  | 5625.8 | 5644.8 | 5649.5 | 5632.9 | 5632.9 | 5604.6 | 5609.3 |
| 5°    | 5606.9  | 5590.4  | 5644.8  | 5684.9  | 5760.6 | 5788.9 | 5807.9 | 5796.0 | 5803.1 | 5784.2 | 5788.9 |
| 7.5°  | 5703.8  | 5689.7  | 5784.2  | 5862.2  | 5940.2 | 5973.3 | 5989.9 | 5980.4 | 5982.8 | 5959.1 | 5966.2 |
| 10°   | 5838.6  | 5843.3  | 5956.8  | 6058.4  | 6162.4 | 6195.5 | 6202.6 | 6174.2 | 6150.6 | 6108.1 | 6110.4 |
| 12.5° | 6023.0  | 6046.6  | 6207.3  | 6320.8  | 6427.2 | 6474.4 | 6422.4 | 6318.4 | 6221.5 | 6148.2 | 6138.8 |
| 15°   | 6223.9  | 6266.4  | 6498.1  | 6642.3  | 6758.1 | 6734.5 | 6580.8 | 6346.8 | 6155.3 | 6046.6 | 6025.3 |
| 17.5° | 6465.0  | 6528.8  | 6819.6  | 6992.1  | 7091.4 | 6940.1 | 6618.6 | 6268.8 | 6001.7 | 5855.1 | 5826.8 |
| 20°   | 6691.9  | 6793.6  | 7159.9  | 7384.5  | 7396.3 | 7055.9 | 6602.1 | 6110.4 | 5774.8 | 5595.1 | 5557.3 |
| 22.5° | 6899.9  | 7029.9  | 7516.9  | 7802.9  | 7649.3 | 7107.9 | 6500.4 | 5885.9 | 5500.6 | 5290.2 | 5257.1 |
| 25°   | 7126.9  | 7311.2  | 7932.9  | 8200.0  | 7902.2 | 7086.7 | 6287.7 | 5606.9 | 5169.6 | 4954.5 | 4930.9 |
| 27.5° | 7282.9  | 7514.5  | 8351.3  | 8606.6  | 8110.2 | 6966.1 | 6013.5 | 5302.0 | 4867.1 | 4663.8 | 4630.7 |
| 30°   | 7462.5  | 7758.0  | 8812.2  | 9048.6  | 8237.8 | 6788.8 | 5720.4 | 5018.3 | 4585.8 | 4365.9 | 4342.3 |
| 32.5° | 7788.7  | 8159.8  | 9384.3  | 9516.7  | 8278.0 | 6569.0 | 5439.1 | 4744.1 | 4292.7 | 4072.8 | 4039.7 |
| 35°   | 8313.5  | 8748.4  | 10188.0 | 10039.1 | 8247.3 | 6327.9 | 5172.0 | 4422.7 | 3992.5 | 3786.8 | 3753.7 |
| 37.5° | 8975.3  | 9516.7  | 11083.9 | 10509.5 | 8162.2 | 6063.1 | 4855.2 | 4153.2 | 3723.0 | 3515.0 | 3496.1 |
| 40°   | 9592.3  | 10258.9 | 12088.5 | 10916.0 | 7989.6 | 5736.9 | 4550.3 | 3871.9 | 3432.2 | 3212.4 | 3169.9 |
| 42.5° | 10365.3 | 11251.7 | 13251.5 | 11268.2 | 7706.0 | 5346.9 | 4207.6 | 3524.4 | 3068.2 | 2869.7 | 2817.6 |
| 45°   | 11540.1 | 12641.6 | 14603.6 | 11606.3 | 7282.9 | 4867.1 | 3777.4 | 3101.3 | 2668.7 | 2465.4 | 2425.3 |
| 47.5° | 13005.6 | 14379.0 | 16069.1 | 11807.2 | 6639.9 | 4361.2 | 3290.4 | 2654.5 | 2222.0 | 1992.7 | 1973.8 |
| 50°   | 15064.5 | 16905.9 | 17641.0 | 11771.7 | 5921.3 | 3760.8 | 2742.0 | 2122.7 | 1761.0 | 1595.6 | 1569.6 |
| 52.5° | 17572.5 | 20078.1 | 19340.6 | 11346.2 | 5157.8 | 3077.7 | 2136.9 | 1666.5 | 1397.0 | 1278.8 | 1257.5 |
| 55°   | 20718.7 | 23876.7 | 21130.0 | 10433.8 | 4193.4 | 2356.7 | 1678.3 | 1314.3 | 1129.9 | 1059.0 | 1049.5 |
| 57.5° | 24614.2 | 28795.8 | 22853.2 | 8897.3  | 3153.3 | 1798.9 | 1293.0 | 1085.0 | 997.5  | 955.0  | 952.6  |
| 60°   | 29755.5 | 34017.4 | 24349.5 | 6914.1  | 2257.4 | 1375.7 | 1068.4 | 969.2  | 900.6  | 872.2  | 869.9  |
| 62.5° | 35868.3 | 38759.2 | 25280.8 | 4708.7  | 1697.2 | 1096.8 | 940.8  | 879.3  | 839.1  | 822.6  | 820.2  |
| 65°   | 42151.3 | 41756.5 | 24836.4 | 3084.8  | 1288.3 | 931.3  | 843.9  | 810.8  | 775.3  | 758.8  | 758.8  |
| 67.5° | 45862.4 | 41123.0 | 21425.5 | 2141.6  | 1021.2 | 817.9  | 761.1  | 730.4  | 671.3  | 657.1  | 657.1  |
| 70°   | 40621.9 | 33322.5 | 14043.3 | 1567.2  | 827.3  | 716.2  | 661.9  | 619.3  | 595.7  | 581.5  | 579.1  |
| 72.5° | 26866.9 | 21683.1 | 7467.2  | 1087.3  | 690.2  | 609.9  | 560.2  | 543.7  | 515.3  | 501.1  | 498.8  |
| 75°   | 13372.0 | 11388.8 | 3827.0  | 784.8   | 574.4  | 489.3  | 468.0  | 460.9  | 437.3  | 418.4  | 413.7  |
| 77.5° | 5573.8  | 5070.3  | 1784.7  | 569.7   | 437.3  | 394.8  | 375.8  | 375.8  | 349.8  | 328.6  | 319.1  |
| 80°   | 2101.4  | 1872.1  | 843.9   | 390.0   | 323.8  | 293.1  | 281.3  | 271.8  | 250.6  | 224.6  | 210.4  |
| 82.5° | 2810.6  | 1836.7  | 413.7   | 243.5   | 212.7  | 189.1  | 172.6  | 165.5  | 153.6  | 141.8  | 132.4  |
| 85°   | 1820.1  | 1304.8  | 186.7   | 125.3   | 106.4  | 80.4   | 70.9   | 66.2   | 59.1   | 52.0   | 47.3   |
| 87.5° | 371.1   | 437.3   | 56.7    | 23.6    | 14.2   | 7.1    | 7.1    | 2.4    | 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)