

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: P635218

Luminaire Tested: GWS-SA3D-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-735-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

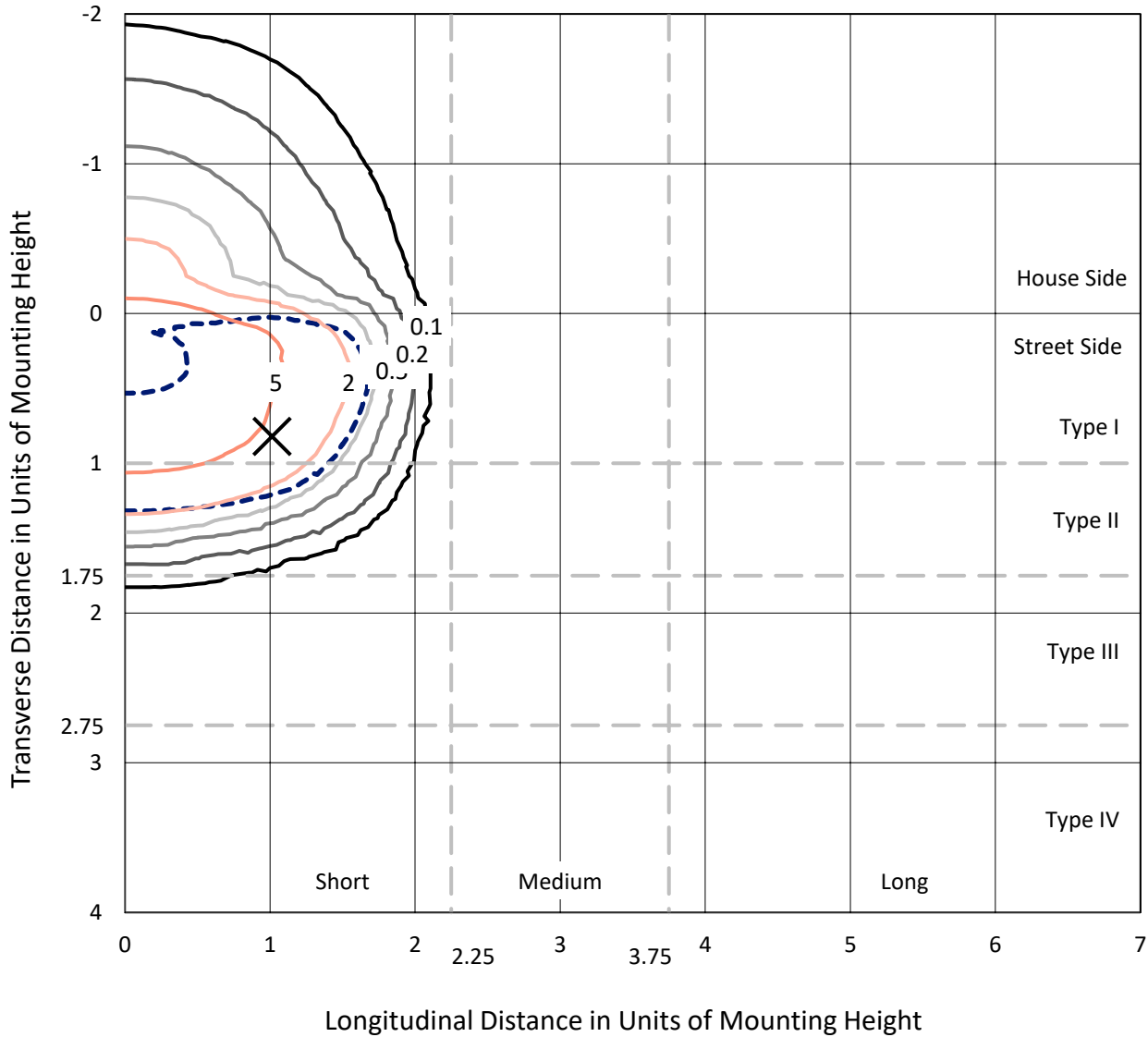
Lumens per Lamp: N/A  
Luminaire Lumens: 15746.3 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P635218  
 CATALOG NUMBER: GWS-SA3D-735-U-AFL-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

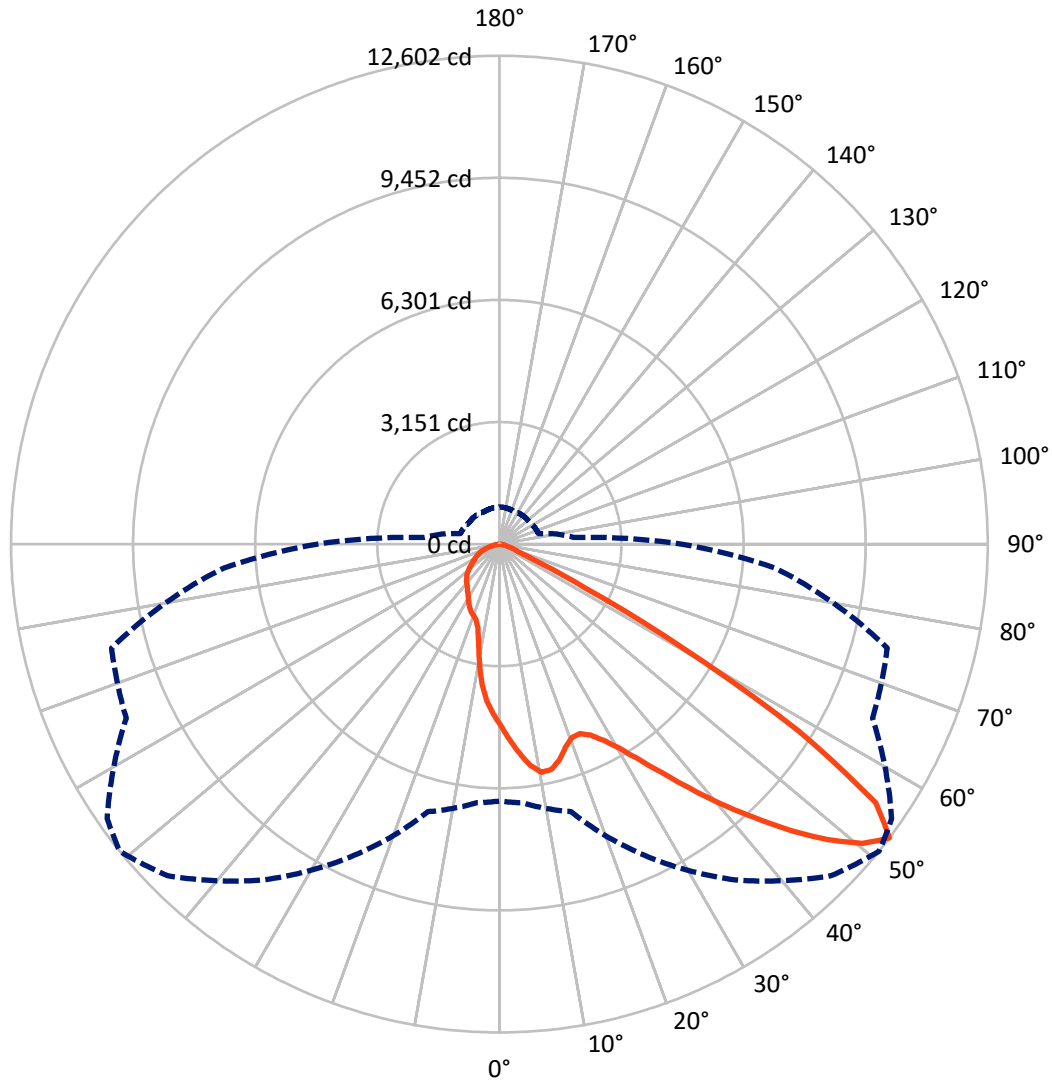
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P635218  
CATALOG NUMBER: GWS-SA3D-735-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P635218

CATALOG NUMBER: GWS-SA3D-735-U-AFL-W-GRSWH

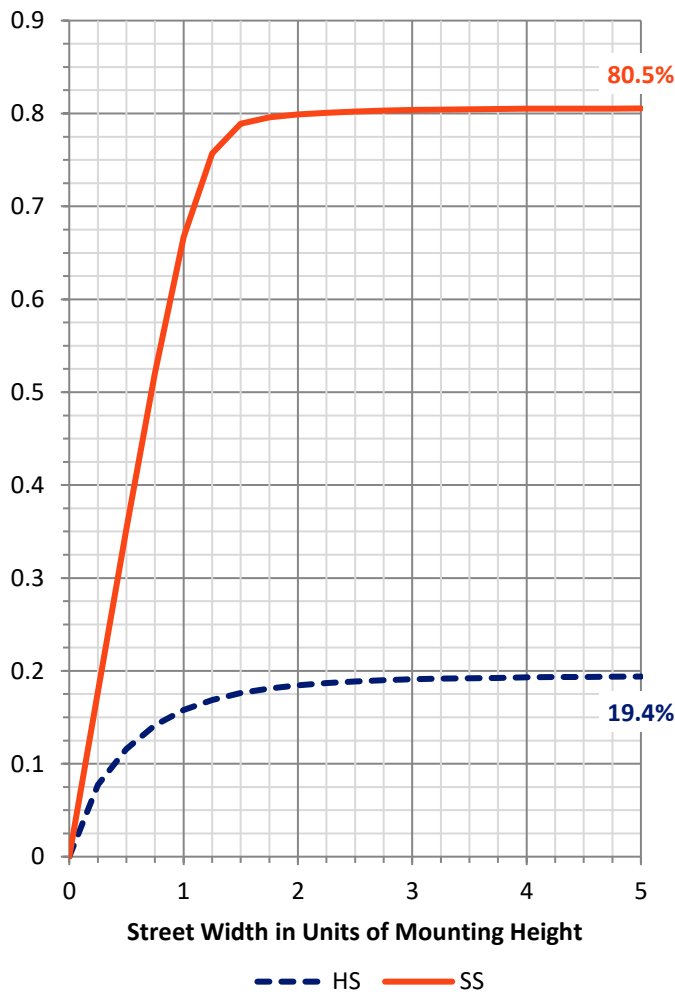
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3068.0   | 0.0    | 3068.0  |
|                    | % Fixture | 19.5     | 0.0    | 19.5    |
| <b>Street Side</b> | Lumens    | 12678.3  | 0.0    | 12678.3 |
|                    | % Fixture | 80.5     | 0.0    | 80.5    |
| <b>Total</b>       | Lumens    | 15746.3  | 0.0    | 15746.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 437.5   | 2.8       |
| 10°-20°   | 1136.8  | 7.2       |
| 20°-30°   | 1848.3  | 11.7      |
| 30°-40°   | 2929.2  | 18.6      |
| 40°-50°   | 4417.9  | 28.1      |
| 50°-60°   | 3821.8  | 24.3      |
| 60°-70°   | 866.4   | 5.5       |
| 70°-80°   | 255.5   | 1.6       |
| 80°-90°   | 32.9    | 0.2       |
| 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°    | 15746.3 | 100.0     |
| 0°-180°   | 15746.3 | 100.0     |

**Coefficient of Utilization**



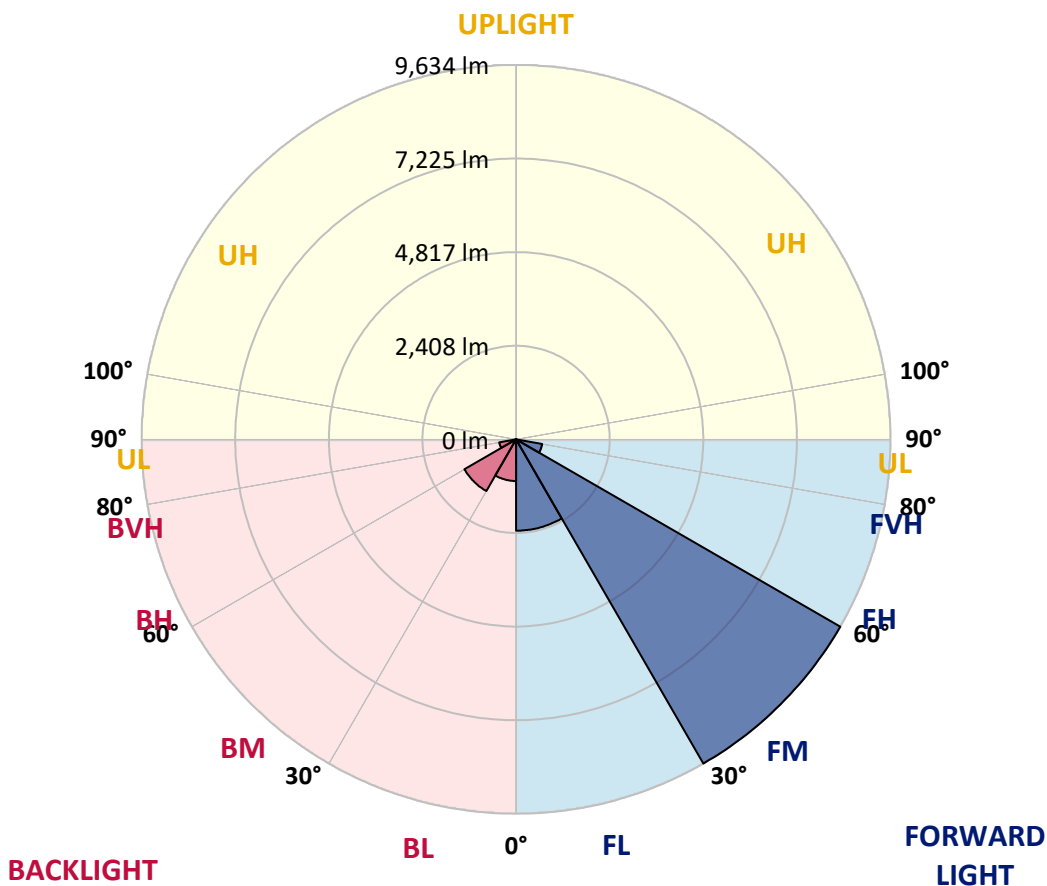
REPORT NUMBER: P635218

CATALOG NUMBER: GWS-SA3D-735-U-AFL-W-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2350.2 | 14.9      |                         |      |         |
| FM (30°-60°)   | 9633.8 | 61.2      |                         |      |         |
| FH (60°-80°)   | 681.9  | 4.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.4   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1072.5 | 6.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 1535.0 | 9.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 440.0  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 20.5   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0 </tr  |                         |      |         |

**BUG Rating: B3-U0-G1**  
 Type II Short





REPORT NUMBER: P635218

CATALOG NUMBER: GWS-SA3D-735-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 51°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4688.5  | 4688.5  | 4688.5  | 4688.5  | 4688.5  | 4688.5  | 4688.5  | 4688.5  | 4688.5  | 4688.5  | 4688.5 |
| 2.5°  | 5224.7  | 5254.6  | 5208.6  | 5191.1  | 5162.5  | 5112.8  | 5055.5  | 5039.3  | 4916.2  | 4835.3  | 4744.5 |
| 5°    | 5749.8  | 5766.0  | 5728.7  | 5691.4  | 5620.4  | 5532.1  | 5421.3  | 5397.7  | 5173.7  | 4988.3  | 4795.5 |
| 7.5°  | 5866.8  | 5860.6  | 5892.9  | 5914.1  | 5905.4  | 5870.5  | 5772.2  | 5726.2  | 5458.7  | 5165.0  | 4880.1 |
| 10°   | 5403.9  | 5369.1  | 5488.5  | 5630.4  | 5800.8  | 5997.4  | 5986.2  | 5982.5  | 5749.8  | 5402.7  | 4988.3 |
| 12.5° | 4790.5  | 4773.1  | 4870.1  | 5048.1  | 5370.3  | 5805.8  | 5968.8  | 6095.7  | 6012.4  | 5629.1  | 5109.0 |
| 15°   | 4439.6  | 4433.4  | 4499.3  | 4627.5  | 4883.8  | 5433.8  | 5782.2  | 6033.5  | 6237.6  | 5871.8  | 5237.2 |
| 17.5° | 4376.1  | 4379.9  | 4402.3  | 4475.7  | 4659.8  | 5112.8  | 5515.9  | 5866.8  | 6413.0  | 6138.0  | 5397.7 |
| 20°   | 4561.5  | 4586.4  | 4547.9  | 4559.1  | 4658.6  | 4997.0  | 5334.2  | 5698.8  | 6525.0  | 6405.6  | 5570.7 |
| 22.5° | 4973.4  | 4964.7  | 4880.1  | 4830.3  | 4831.6  | 5068.0  | 5314.3  | 5620.4  | 6598.4  | 6665.6  | 5727.4 |
| 25°   | 5440.0  | 5430.1  | 5329.3  | 5218.5  | 5148.8  | 5260.8  | 5457.4  | 5703.8  | 6664.4  | 6903.3  | 5853.1 |
| 27.5° | 5991.2  | 5960.1  | 5848.1  | 5706.3  | 5552.0  | 5600.5  | 5733.7  | 5929.0  | 6766.4  | 7137.2  | 5936.5 |
| 30°   | 6525.0  | 6561.1  | 6400.6  | 6232.6  | 6069.6  | 6039.8  | 6116.9  | 6293.6  | 6974.2  | 7411.0  | 6036.0 |
| 32.5° | 7233.0  | 7220.6  | 7042.6  | 6823.6  | 6591.0  | 6568.6  | 6629.5  | 6791.3  | 7347.5  | 7789.2  | 6187.8 |
| 35°   | 8090.3  | 8092.8  | 7840.2  | 7544.1  | 7213.1  | 7153.4  | 7255.4  | 7412.2  | 7903.7  | 8301.9  | 6428.0 |
| 37.5° | 8981.2  | 8977.5  | 8757.3  | 8421.3  | 7969.6  | 7885.0  | 8002.0  | 8118.9  | 8599.2  | 8999.9  | 6801.3 |
| 40°   | 9605.9  | 9630.8  | 9527.5  | 9350.8  | 8922.8  | 8716.2  | 8819.5  | 8900.4  | 9355.8  | 9821.1  | 7292.7 |
| 42.5° | 9960.5  | 9997.8  | 10020.2 | 10126.0 | 9900.8  | 9680.5  | 9643.2  | 9685.5  | 10031.4 | 10583.9 | 7754.4 |
| 45°   | 10036.4 | 10086.2 | 10249.2 | 10641.1 | 10728.2 | 10666.0 | 10544.1 | 10442.0 | 10535.3 | 11125.1 | 8056.7 |
| 47.5° | 9701.7  | 9788.8  | 10137.2 | 10822.8 | 11331.7 | 11527.0 | 11391.4 | 11235.9 | 10826.5 | 11264.5 | 8025.6 |
| 50°   | 8375.3  | 8477.3  | 9262.4  | 10452.0 | 11417.5 | 12129.3 | 12141.7 | 11911.5 | 10791.7 | 10862.6 | 7634.9 |
| 52.5° | 6630.8  | 6700.5  | 7149.7  | 8860.5  | 10575.2 | 12104.4 | 12602.1 | 12355.7 | 10623.7 | 10359.9 | 7145.9 |
| 55°   | 3963.0  | 4075.0  | 4494.4  | 5845.6  | 8238.4  | 10728.2 | 11788.3 | 11907.8 | 10541.6 | 9938.1  | 6812.5 |
| 57.5° | 1337.6  | 1392.4  | 1793.0  | 2581.9  | 4855.2  | 7855.2  | 9108.2  | 9593.4  | 9569.8  | 9293.6  | 6161.7 |
| 60°   | 637.1   | 649.5   | 730.4   | 979.3   | 1943.6  | 4104.9  | 5391.5  | 5951.4  | 6461.6  | 6512.6  | 3833.6 |
| 62.5° | 485.3   | 492.7   | 533.8   | 587.3   | 781.4   | 1729.6  | 2471.1  | 2899.2  | 3097.0  | 2657.8  | 1396.1 |
| 65°   | 405.6   | 411.9   | 443.0   | 476.6   | 531.3   | 749.1   | 948.1   | 1093.7  | 985.5   | 767.7   | 665.7  |
| 67.5° | 338.4   | 343.4   | 367.1   | 403.1   | 440.5   | 501.4   | 526.3   | 541.3   | 567.4   | 637.1   | 612.2  |
| 70°   | 265.0   | 270.0   | 294.9   | 326.0   | 362.1   | 377.0   | 400.7   | 415.6   | 467.9   | 557.4   | 555.0  |
| 72.5° | 204.1   | 210.3   | 224.0   | 243.9   | 273.7   | 288.7   | 314.8   | 332.2   | 362.1   | 434.3   | 464.1  |
| 75°   | 149.3   | 153.0   | 165.5   | 171.7   | 175.4   | 171.7   | 197.8   | 217.7   | 257.6   | 284.9   | 292.4  |
| 77.5° | 61.0    | 68.4    | 65.9    | 65.9    | 78.4    | 94.6    | 108.3   | 120.7   | 148.1   | 164.2   | 165.5  |
| 80°   | 24.9    | 27.4    | 32.4    | 36.1    | 43.5    | 56.0    | 64.7    | 69.7    | 82.1    | 92.1    | 99.5   |
| 82.5° | 14.9    | 16.2    | 18.7    | 19.9    | 24.9    | 32.4    | 37.3    | 41.1    | 51.0    | 61.0    | 64.7   |
| 85°   | 7.5     | 7.5     | 8.7     | 10.0    | 12.4    | 14.9    | 17.4    | 19.9    | 26.1    | 32.4    | 36.1   |
| 87.5° | 1.2     | 1.2     | 1.2     | 2.5     | 3.7     | 5.0     | 6.2     | 7.5     | 8.7     | 10.0    | 12.4   |
| 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: P635218

CATALOG NUMBER: GWS-SA3D-735-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4688.5 | 4688.5 | 4688.5 | 4688.5 | 4688.5 | 4688.5 | 4688.5 | 4688.5 | 4688.5 | 4688.5 | 4688.5 |
| 2.5°  | 4690.9 | 4623.8 | 4545.4 | 4483.2 | 4411.0 | 4357.5 | 4281.6 | 4234.3 | 4189.5 | 4152.2 | 4124.8 |
| 5°    | 4695.9 | 4582.7 | 4419.7 | 4275.4 | 4126.0 | 3984.2 | 3838.6 | 3720.4 | 3614.6 | 3526.3 | 3518.8 |
| 7.5°  | 4724.5 | 4561.5 | 4306.5 | 4053.9 | 3762.7 | 3481.5 | 3200.3 | 2971.3 | 2797.1 | 2706.3 | 2687.7 |
| 10°   | 4773.1 | 4559.1 | 4190.7 | 3787.6 | 3291.1 | 2838.2 | 2504.7 | 2330.5 | 2229.8 | 2193.7 | 2181.2 |
| 12.5° | 4824.1 | 4552.8 | 4042.7 | 3411.8 | 2722.5 | 2325.6 | 2142.7 | 2121.5 | 2140.2 | 2142.7 | 2141.4 |
| 15°   | 4886.3 | 4549.1 | 3856.0 | 2971.3 | 2306.9 | 2087.9 | 2100.4 | 2145.1 | 2188.7 | 2198.6 | 2198.6 |
| 17.5° | 4962.2 | 4540.4 | 3602.2 | 2540.8 | 2046.8 | 2041.9 | 2107.8 | 2167.5 | 2208.6 | 2216.1 | 2216.1 |
| 20°   | 5041.8 | 4518.0 | 3289.9 | 2189.9 | 1941.1 | 2013.3 | 2084.2 | 2130.2 | 2158.8 | 2168.8 | 2170.0 |
| 22.5° | 5096.6 | 4458.3 | 2930.3 | 1929.9 | 1875.1 | 1958.5 | 2009.5 | 2056.8 | 2056.8 | 2031.9 | 2024.4 |
| 25°   | 5107.8 | 4330.1 | 2540.8 | 1752.0 | 1796.7 | 1873.9 | 1926.2 | 1898.8 | 1847.8 | 1827.9 | 1826.6 |
| 27.5° | 5066.7 | 4143.5 | 2156.3 | 1625.0 | 1702.2 | 1779.3 | 1770.6 | 1730.8 | 1708.4 | 1688.5 | 1696.0 |
| 30°   | 5016.9 | 3919.5 | 1822.9 | 1520.5 | 1592.7 | 1668.6 | 1638.7 | 1625.0 | 1608.9 | 1586.5 | 1591.4 |
| 32.5° | 4983.4 | 3669.4 | 1566.6 | 1439.6 | 1519.3 | 1531.7 | 1552.9 | 1551.6 | 1536.7 | 1494.4 | 1491.9 |
| 35°   | 4993.3 | 3416.8 | 1394.8 | 1373.7 | 1458.3 | 1453.3 | 1493.1 | 1485.7 | 1382.4 | 1323.9 | 1320.2 |
| 37.5° | 5072.9 | 3174.2 | 1294.1 | 1321.4 | 1361.2 | 1392.4 | 1427.2 | 1337.6 | 1301.5 | 1264.2 | 1266.7 |
| 40°   | 5224.7 | 2949.0 | 1239.3 | 1292.8 | 1302.8 | 1348.8 | 1267.9 | 1266.7 | 1250.5 | 1216.9 | 1215.7 |
| 42.5° | 5396.5 | 2758.6 | 1202.0 | 1279.1 | 1265.4 | 1274.1 | 1188.3 | 1198.2 | 1197.0 | 1175.8 | 1169.6 |
| 45°   | 5501.0 | 2583.1 | 1172.1 | 1228.1 | 1231.8 | 1144.7 | 1118.6 | 1129.8 | 1136.0 | 1124.8 | 1123.6 |
| 47.5° | 5392.7 | 2381.6 | 1141.0 | 1149.7 | 1182.1 | 1086.3 | 1053.9 | 1055.2 | 1066.4 | 1067.6 | 1062.6 |
| 50°   | 5089.1 | 2156.3 | 1103.7 | 1082.5 | 1061.4 | 1025.3 | 995.4  | 989.2  | 1000.4 | 1011.6 | 1015.3 |
| 52.5° | 4697.2 | 1941.1 | 1041.5 | 1009.1 | 959.3  | 959.3  | 945.7  | 925.7  | 940.7  | 955.6  | 960.6  |
| 55°   | 4409.7 | 1781.8 | 953.1  | 917.0  | 862.3  | 881.0  | 878.5  | 861.0  | 881.0  | 892.2  | 895.9  |
| 57.5° | 3821.2 | 1432.2 | 838.6  | 827.4  | 781.4  | 803.8  | 808.8  | 786.4  | 776.4  | 778.9  | 782.7  |
| 60°   | 2268.3 | 924.5  | 756.5  | 755.3  | 714.2  | 740.3  | 755.3  | 732.9  | 703.0  | 706.8  | 711.7  |
| 62.5° | 1017.8 | 706.8  | 653.2  | 648.3  | 647.0  | 680.6  | 696.8  | 675.6  | 633.3  | 637.1  | 642.1  |
| 65°   | 640.8  | 610.9  | 567.4  | 567.4  | 587.3  | 615.9  | 628.4  | 610.9  | 562.4  | 556.2  | 561.2  |
| 67.5° | 594.8  | 568.6  | 523.8  | 515.1  | 525.1  | 548.7  | 550.0  | 516.4  | 487.8  | 482.8  | 482.8  |
| 70°   | 533.8  | 513.9  | 470.3  | 452.9  | 449.2  | 447.9  | 444.2  | 435.5  | 416.8  | 411.9  | 414.3  |
| 72.5° | 441.7  | 428.0  | 400.7  | 382.0  | 372.0  | 370.8  | 355.9  | 348.4  | 332.2  | 329.7  | 328.5  |
| 75°   | 292.4  | 296.1  | 296.1  | 293.7  | 284.9  | 281.2  | 265.0  | 257.6  | 238.9  | 231.4  | 230.2  |
| 77.5° | 173.0  | 176.7  | 181.7  | 182.9  | 181.7  | 181.7  | 166.7  | 158.0  | 139.4  | 129.4  | 126.9  |
| 80°   | 105.8  | 108.3  | 110.7  | 114.5  | 109.5  | 105.8  | 92.1   | 83.4   | 74.7   | 68.4   | 67.2   |
| 82.5° | 68.4   | 70.9   | 72.2   | 74.7   | 72.2   | 67.2   | 56.0   | 51.0   | 44.8   | 39.8   | 38.6   |
| 85°   | 38.6   | 39.8   | 42.3   | 42.3   | 38.6   | 34.8   | 28.6   | 24.9   | 21.2   | 18.7   | 18.7   |
| 87.5° | 13.7   | 13.7   | 13.7   | 14.9   | 12.4   | 11.2   | 7.5    | 5.0    | 3.7    | 3.7    | 3.7    |
| 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)