

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: P638375

Luminaire Tested: GWS-SA4E-760-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638375  
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-SA4E-760-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

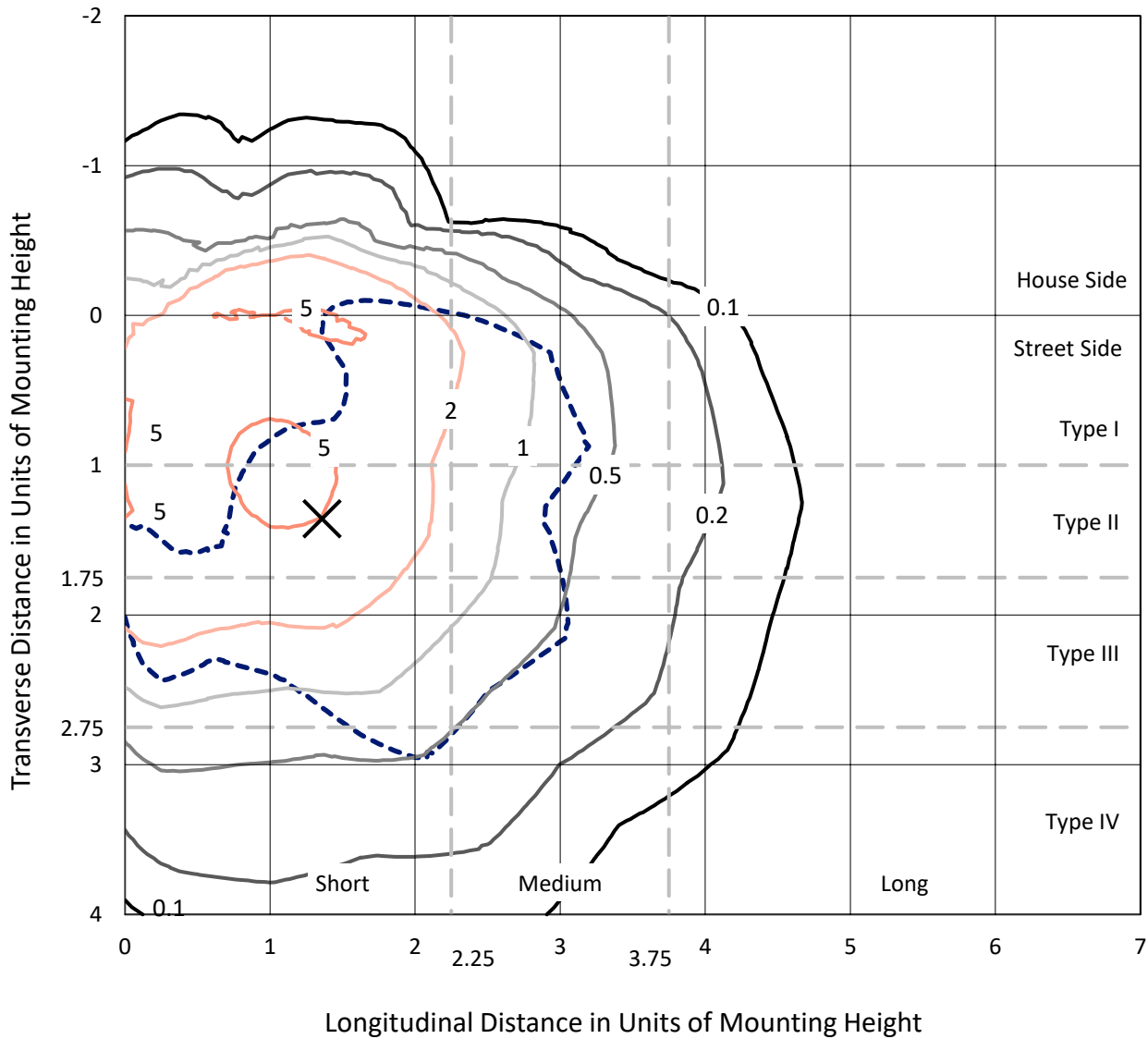
Lumens per Lamp: N/A  
Luminaire Lumens: 19160.8 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

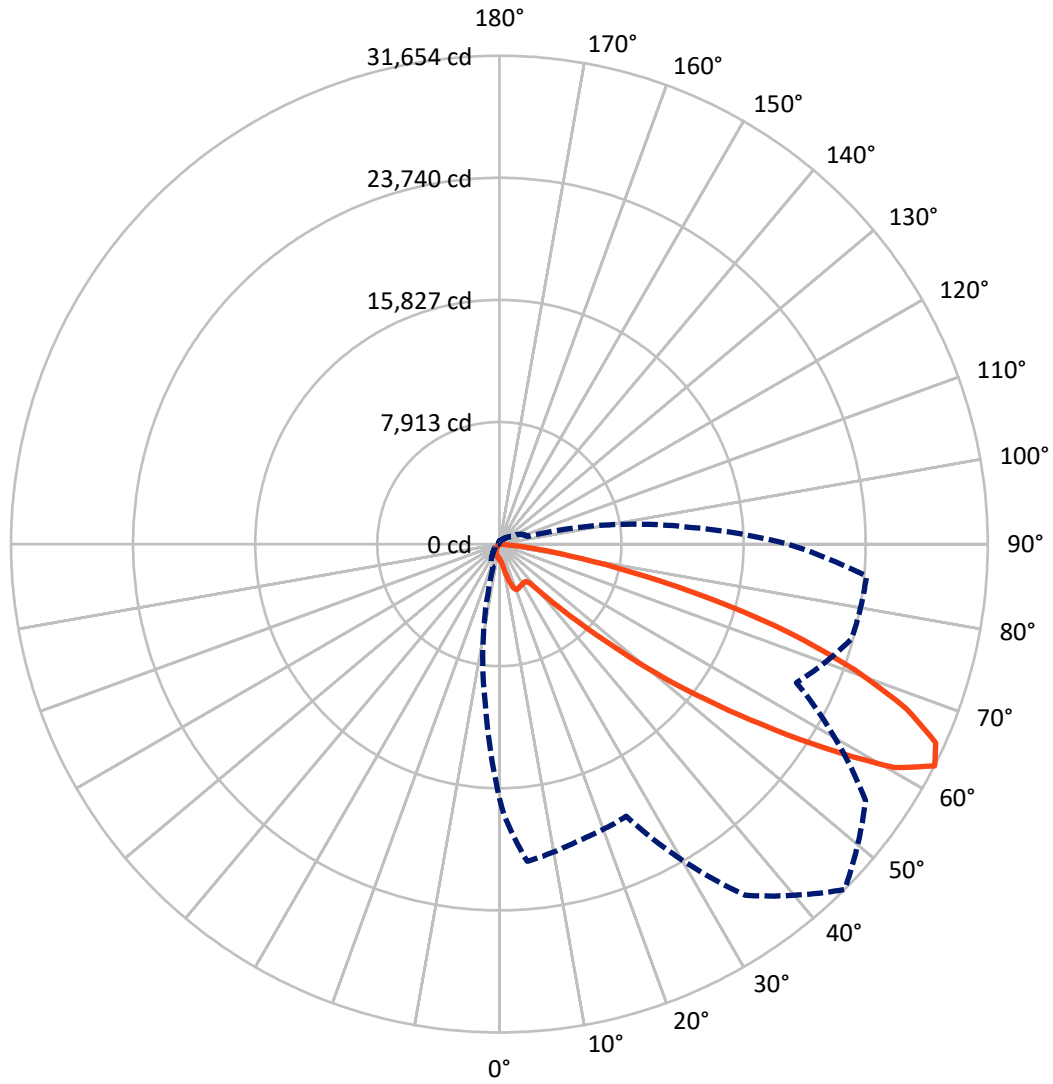
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2364.4   | 0.0    | 2364.4  |
|                    | % Fixture | 12.3     | 0.0    | 12.3    |
| <b>Street Side</b> | Lumens    | 16796.4  | 0.0    | 16796.4 |
|                    | % Fixture | 87.7     | 0.0    | 87.7    |
| <b>Total</b>       | Lumens    | 19160.8  | 0.0    | 19160.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 88.4    | 0.5       |
| 10°-20°   | 334.1   | 1.7       |
| 20°-30°   | 726.2   | 3.8       |
| 30°-40°   | 1191.9  | 6.2       |
| 40°-50°   | 2191.2  | 11.4      |
| 50°-60°   | 4705.6  | 24.6      |
| 60°-70°   | 6320.4  | 33.0      |
| 70°-80°   | 3291.1  | 17.2      |
| 80°-90°   | 312.1   | 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°    | 19160.8 | 100.0     |
| 0°-180°   | 19160.8 | 100.0     |

**Coefficient of Utilization**



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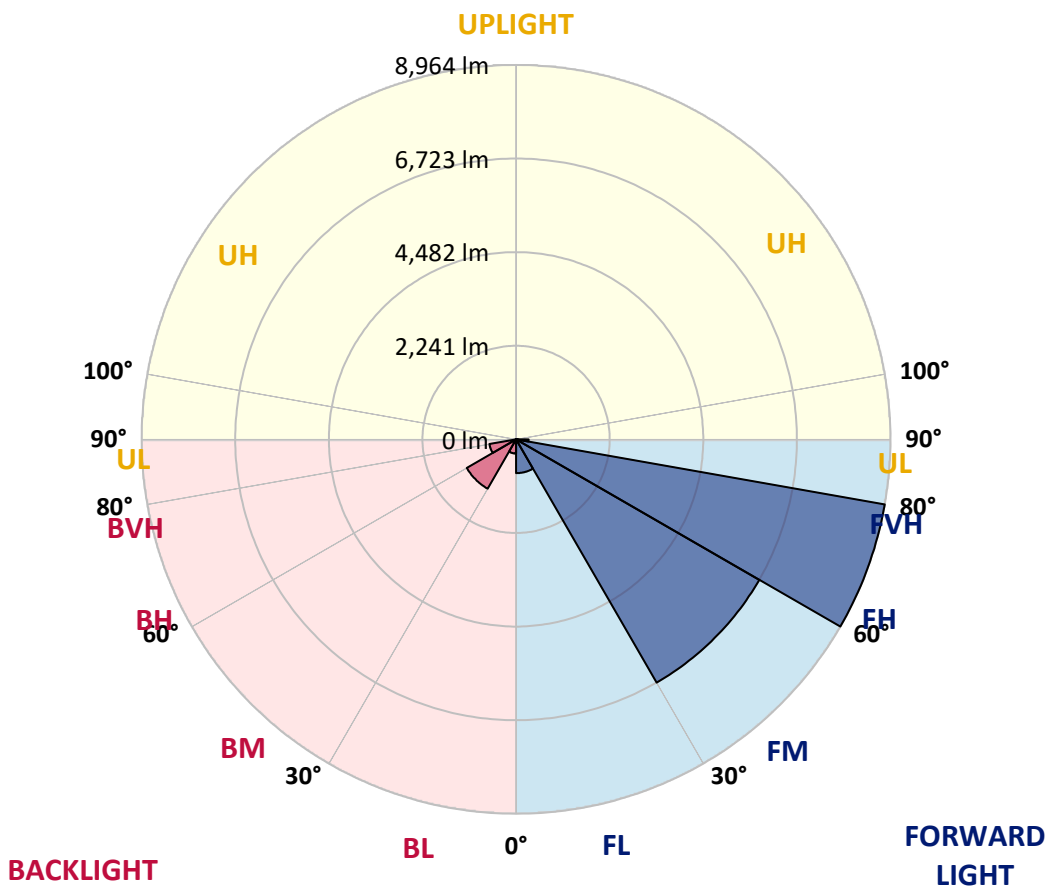
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 809.4  | 4.2       |                         |      |          |
| FM (30°-60°)   | 6725.2 | 35.1      |                         |      |          |
| FH (60°-80°)   | 8963.6 | 46.8      |                         |      | G4/12000 |
| FVH (80°-90°)  | 298.1  | 1.6       |                         |      | G3/500   |
| BL (0°-30°)    | 339.2  | 1.8       | B1/500                  |      |          |
| BM (30°-60°)   | 1363.5 | 7.1       | B2/2500                 |      |          |
| BH (60°-80°)   | 647.9  | 3.4       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 13.9   | 0.1       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 996.0   | 996.0   | 996.0   | 996.0   | 996.0   | 996.0   | 996.0   | 996.0   | 996.0   | 996.0   | 996.0   |
| 2.5°  | 1015.9  | 1020.3  | 1024.7  | 1040.2  | 1051.3  | 1060.1  | 1062.4  | 1055.7  | 1040.2  | 1024.7  | 1002.6  |
| 5°    | 984.9   | 989.3   | 1004.8  | 1046.9  | 1088.9  | 1122.1  | 1133.2  | 1126.5  | 1088.9  | 1040.2  | 989.3   |
| 7.5°  | 982.7   | 991.5   | 1029.2  | 1117.7  | 1208.4  | 1277.0  | 1294.7  | 1279.3  | 1208.4  | 1111.0  | 1007.0  |
| 10°   | 1062.4  | 1077.9  | 1133.2  | 1292.5  | 1458.5  | 1580.3  | 1628.9  | 1562.6  | 1449.7  | 1272.6  | 1102.2  |
| 12.5° | 1270.4  | 1297.0  | 1403.2  | 1635.6  | 1892.3  | 2053.9  | 2120.3  | 2038.4  | 1861.3  | 1604.6  | 1334.6  |
| 15°   | 1598.0  | 1637.8  | 1797.2  | 2144.6  | 2447.8  | 2591.7  | 2613.8  | 2567.4  | 2361.5  | 2078.2  | 1715.3  |
| 17.5° | 2060.5  | 2118.1  | 2366.0  | 2720.1  | 2939.2  | 2990.1  | 2983.5  | 2934.8  | 2784.3  | 2589.5  | 2246.4  |
| 20°   | 2613.8  | 2682.5  | 2925.9  | 3218.1  | 3240.2  | 3180.4  | 3147.2  | 3118.5  | 3067.6  | 3034.4  | 2766.6  |
| 22.5° | 3171.6  | 3255.7  | 3510.2  | 3583.2  | 3384.1  | 3211.4  | 3129.5  | 3151.7  | 3226.9  | 3390.7  | 3282.2  |
| 25°   | 3727.1  | 3806.8  | 4045.8  | 3848.8  | 3450.4  | 3162.7  | 3058.7  | 3111.8  | 3291.1  | 3645.2  | 3784.7  |
| 27.5° | 4375.6  | 4435.3  | 4577.0  | 4030.3  | 3461.5  | 3122.9  | 3021.1  | 3103.0  | 3322.1  | 3804.6  | 4335.7  |
| 30°   | 5050.6  | 5086.0  | 5017.4  | 4079.0  | 3423.9  | 3063.1  | 2983.5  | 3103.0  | 3375.2  | 3910.8  | 4749.6  |
| 32.5° | 5546.4  | 5553.0  | 5329.5  | 4083.4  | 3404.0  | 3014.4  | 2948.0  | 3089.7  | 3426.1  | 3999.3  | 5150.2  |
| 35°   | 6057.7  | 6024.5  | 5628.3  | 4149.8  | 3457.1  | 3032.1  | 2974.6  | 3127.3  | 3505.8  | 4103.4  | 5502.1  |
| 37.5° | 6575.6  | 6515.8  | 5962.5  | 4258.3  | 3594.3  | 3224.7  | 3189.3  | 3319.9  | 3634.1  | 4247.2  | 5889.4  |
| 40°   | 7106.7  | 7024.8  | 6310.0  | 4422.1  | 3899.7  | 3879.8  | 4001.5  | 3986.1  | 3986.1  | 4430.9  | 6287.8  |
| 42.5° | 7755.2  | 7660.0  | 6823.4  | 4884.6  | 4612.4  | 5057.3  | 5389.3  | 5183.4  | 4802.7  | 4853.6  | 6805.7  |
| 45°   | 8611.7  | 8529.8  | 7713.2  | 5769.9  | 5730.1  | 6752.6  | 7199.7  | 6792.5  | 5845.2  | 5829.7  | 7671.1  |
| 47.5° | 9981.7  | 9966.2  | 9131.9  | 6796.9  | 7097.9  | 8910.5  | 9773.7  | 8990.2  | 7033.7  | 6863.3  | 9308.9  |
| 50°   | 11907.3 | 11860.8 | 10900.2 | 8000.9  | 8724.6  | 11584.1 | 13124.5 | 11818.7 | 8470.1  | 8069.5  | 11502.2 |
| 52.5° | 14076.2 | 14124.9 | 13376.9 | 9315.6  | 10453.2 | 14558.7 | 16703.4 | 15058.9 | 10030.4 | 9603.3  | 14262.2 |
| 55°   | 16119.1 | 16397.9 | 16201.0 | 10853.8 | 12141.9 | 17843.2 | 20634.1 | 18613.4 | 11962.6 | 11610.7 | 17356.3 |
| 57.5° | 17717.0 | 18502.7 | 19883.8 | 13089.1 | 14127.1 | 21685.4 | 25023.0 | 22466.7 | 14217.9 | 14870.8 | 21568.1 |
| 60°   | 17805.6 | 18845.8 | 22052.8 | 17765.7 | 16681.2 | 24980.9 | 29405.2 | 26231.4 | 17763.5 | 20406.1 | 24868.0 |
| 62.5° | 16471.0 | 17586.4 | 20640.7 | 19890.4 | 19463.3 | 27785.1 | 31653.8 | 28975.8 | 21251.6 | 23648.5 | 23889.8 |
| 65°   | 14943.8 | 16070.4 | 19064.9 | 17480.2 | 19140.1 | 27665.6 | 31082.8 | 29040.0 | 21568.1 | 21444.1 | 22139.1 |
| 67.5° | 12635.4 | 13646.9 | 16358.1 | 15472.8 | 17641.8 | 26331.0 | 28444.6 | 27209.6 | 19870.5 | 20056.4 | 20366.3 |
| 70°   | 9222.6  | 10196.4 | 12712.9 | 12757.1 | 15406.4 | 23925.2 | 24440.9 | 24270.5 | 18299.1 | 18496.1 | 17610.8 |
| 72.5° | 6661.9  | 7483.0  | 9654.2  | 10462.0 | 12299.0 | 20063.1 | 19706.7 | 20364.1 | 15700.8 | 16473.2 | 14144.9 |
| 75°   | 4789.5  | 5404.7  | 7082.4  | 9100.9  | 9749.3  | 14899.6 | 14107.2 | 15771.6 | 12597.8 | 14184.7 | 10634.6 |
| 77.5° | 1943.2  | 2160.1  | 2786.5  | 6130.7  | 6407.3  | 10023.8 | 8636.1  | 11455.8 | 8981.4  | 9320.0  | 5154.6  |
| 80°   | 79.7    | 88.5    | 115.1   | 3164.9  | 4393.3  | 5639.3  | 4621.3  | 6124.1  | 5931.5  | 3753.7  | 1217.3  |
| 82.5° | 8.9     | 8.9     | 19.9    | 911.9   | 1923.3  | 3111.8  | 2177.8  | 3527.9  | 3003.4  | 1591.3  | 553.3   |
| 85°   | 2.2     | 2.2     | 4.4     | 104.0   | 451.5   | 498.0   | 294.4   | 1082.3  | 1396.6  | 650.7   | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 11.1    | 19.9    | 22.1    | 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°    | 996.0   | 996.0   | 996.0  | 996.0  | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 |
| 2.5°  | 1002.6  | 991.5   | 978.3  | 965.0  | 958.3 | 940.6 | 934.0 | 929.6 | 925.1 | 927.3 | 927.3 |
| 5°    | 969.4   | 945.1   | 916.3  | 887.5  | 872.0 | 854.3 | 845.5 | 841.0 | 843.2 | 852.1 | 852.1 |
| 7.5°  | 965.0   | 918.5   | 856.5  | 818.9  | 801.2 | 787.9 | 779.1 | 774.6 | 776.8 | 787.9 | 792.3 |
| 10°   | 1038.0  | 956.1   | 845.5  | 781.3  | 761.4 | 748.1 | 739.2 | 732.6 | 728.2 | 737.0 | 739.2 |
| 12.5° | 1195.2  | 1082.3  | 898.6  | 776.8  | 741.4 | 723.7 | 717.1 | 703.8 | 697.2 | 701.6 | 703.8 |
| 15°   | 1520.5  | 1325.7  | 1004.8 | 794.6  | 723.7 | 703.8 | 692.7 | 681.7 | 670.6 | 668.4 | 670.6 |
| 17.5° | 1945.4  | 1666.6  | 1166.4 | 836.6  | 710.5 | 686.1 | 670.6 | 655.1 | 639.6 | 637.4 | 635.2 |
| 20°   | 2472.2  | 2084.9  | 1392.1 | 903.0  | 699.4 | 670.6 | 648.5 | 626.3 | 606.4 | 599.8 | 599.8 |
| 22.5° | 2952.5  | 2589.5  | 1682.1 | 984.9  | 683.9 | 648.5 | 621.9 | 595.4 | 573.2 | 562.2 | 560.0 |
| 25°   | 3539.0  | 3125.1  | 2029.5 | 1080.1 | 661.8 | 619.7 | 590.9 | 564.4 | 542.2 | 529.0 | 524.5 |
| 27.5° | 4129.9  | 3689.5  | 2423.5 | 1204.0 | 635.2 | 590.9 | 564.4 | 540.0 | 515.7 | 500.2 | 495.8 |
| 30°   | 4703.1  | 4298.1  | 2866.2 | 1358.9 | 615.3 | 562.2 | 540.0 | 515.7 | 493.6 | 469.2 | 462.6 |
| 32.5° | 5318.4  | 4920.0  | 3361.9 | 1531.6 | 599.8 | 542.2 | 517.9 | 495.8 | 467.0 | 444.9 | 433.8 |
| 35°   | 5911.6  | 5561.9  | 3908.6 | 1699.8 | 584.3 | 524.5 | 498.0 | 475.8 | 444.9 | 420.5 | 405.0 |
| 37.5° | 6509.2  | 6214.8  | 4479.6 | 1801.6 | 562.2 | 500.2 | 475.8 | 458.1 | 422.7 | 394.0 | 376.3 |
| 40°   | 7142.1  | 6889.8  | 5097.1 | 1759.5 | 542.2 | 473.6 | 460.4 | 440.4 | 400.6 | 367.4 | 345.3 |
| 42.5° | 7837.1  | 7533.9  | 5725.7 | 1598.0 | 524.5 | 451.5 | 438.2 | 418.3 | 380.7 | 340.8 | 312.1 |
| 45°   | 8711.3  | 8239.9  | 6241.4 | 1354.5 | 533.4 | 429.4 | 402.8 | 398.4 | 363.0 | 312.1 | 276.7 |
| 47.5° | 10214.1 | 9324.4  | 6642.0 | 1197.4 | 593.1 | 405.0 | 374.0 | 385.1 | 347.5 | 283.3 | 243.5 |
| 50°   | 12513.7 | 11121.6 | 7016.0 | 1186.3 | 683.9 | 394.0 | 347.5 | 376.3 | 332.0 | 254.5 | 214.7 |
| 52.5° | 14704.8 | 12947.5 | 7255.0 | 1283.7 | 763.6 | 422.7 | 320.9 | 365.2 | 320.9 | 234.6 | 194.8 |
| 55°   | 16800.7 | 14001.0 | 6827.9 | 1354.5 | 838.8 | 509.0 | 301.0 | 347.5 | 307.6 | 223.5 | 188.1 |
| 57.5° | 19060.5 | 14470.2 | 5376.0 | 1498.4 | 891.9 | 582.1 | 305.4 | 320.9 | 289.9 | 216.9 | 185.9 |
| 60°   | 19735.5 | 13870.4 | 3244.6 | 1686.5 | 863.2 | 604.2 | 338.6 | 285.5 | 265.6 | 203.6 | 179.3 |
| 62.5° | 18686.4 | 12447.3 | 1914.5 | 1536.0 | 838.8 | 571.0 | 387.3 | 263.4 | 241.2 | 185.9 | 166.0 |
| 65°   | 17117.2 | 10515.1 | 1248.3 | 1297.0 | 889.7 | 509.0 | 411.7 | 252.3 | 219.1 | 168.2 | 146.1 |
| 67.5° | 15324.5 | 8470.1  | 874.2  | 765.8  | 821.1 | 458.1 | 347.5 | 250.1 | 197.0 | 141.6 | 119.5 |
| 70°   | 12907.6 | 6343.2  | 615.3  | 506.8  | 683.9 | 407.2 | 270.0 | 243.5 | 172.6 | 115.1 | 93.0  |
| 72.5° | 9972.9  | 3970.6  | 458.1  | 327.6  | 486.9 | 332.0 | 214.7 | 205.8 | 139.4 | 95.2  | 70.8  |
| 75°   | 7354.6  | 2264.2  | 323.1  | 236.8  | 320.9 | 252.3 | 159.4 | 146.1 | 119.5 | 90.7  | 64.2  |
| 77.5° | 3840.0  | 1133.2  | 201.4  | 181.5  | 183.7 | 157.1 | 115.1 | 106.2 | 110.7 | 90.7  | 59.8  |
| 80°   | 737.0   | 225.8   | 121.7  | 132.8  | 99.6  | 99.6  | 84.1  | 88.5  | 97.4  | 73.0  | 50.9  |
| 82.5° | 307.6   | 48.7    | 66.4   | 75.3   | 62.0  | 68.6  | 68.6  | 70.8  | 68.6  | 53.1  | 37.6  |
| 85°   | 0.0     | 0.0     | 28.8   | 31.0   | 42.1  | 42.1  | 35.4  | 35.4  | 35.4  | 31.0  | 22.1  |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 2.2   | 6.6   | 13.3  | 15.5  | 17.7  | 13.3  | 8.9   |
| 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°    | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 |
| 2.5°  | 925.1 | 920.7 | 927.3 | 931.8 | 936.2 | 936.2 | 931.8 | 927.3 | 920.7 | 927.3 | 920.7 |
| 5°    | 854.3 | 861.0 | 872.0 | 876.4 | 880.9 | 872.0 | 867.6 | 854.3 | 843.2 | 845.5 | 841.0 |
| 7.5°  | 799.0 | 805.6 | 818.9 | 827.8 | 827.8 | 823.3 | 810.0 | 796.8 | 779.1 | 779.1 | 776.8 |
| 10°   | 748.1 | 756.9 | 772.4 | 783.5 | 787.9 | 783.5 | 770.2 | 752.5 | 737.0 | 737.0 | 730.4 |
| 12.5° | 706.0 | 717.1 | 734.8 | 750.3 | 754.7 | 750.3 | 737.0 | 719.3 | 701.6 | 701.6 | 697.2 |
| 15°   | 670.6 | 683.9 | 703.8 | 721.5 | 728.2 | 721.5 | 706.0 | 683.9 | 666.2 | 668.4 | 661.8 |
| 17.5° | 637.4 | 648.5 | 675.0 | 695.0 | 701.6 | 695.0 | 675.0 | 646.3 | 628.6 | 633.0 | 628.6 |
| 20°   | 599.8 | 613.1 | 639.6 | 661.8 | 668.4 | 661.8 | 639.6 | 608.6 | 590.9 | 590.9 | 593.1 |
| 22.5° | 560.0 | 573.2 | 599.8 | 615.3 | 624.1 | 617.5 | 595.4 | 566.6 | 548.9 | 548.9 | 551.1 |
| 25°   | 524.5 | 531.2 | 551.1 | 566.6 | 568.8 | 562.2 | 544.5 | 522.3 | 509.0 | 515.7 | 517.9 |
| 27.5° | 491.3 | 491.3 | 500.2 | 509.0 | 506.8 | 500.2 | 493.6 | 475.8 | 473.6 | 480.3 | 486.9 |
| 30°   | 455.9 | 444.9 | 440.4 | 433.8 | 431.6 | 429.4 | 436.0 | 436.0 | 440.4 | 449.3 | 455.9 |
| 32.5° | 424.9 | 402.8 | 382.9 | 363.0 | 351.9 | 360.8 | 378.5 | 394.0 | 409.5 | 422.7 | 429.4 |
| 35°   | 389.5 | 354.1 | 320.9 | 294.4 | 276.7 | 289.9 | 318.7 | 347.5 | 374.0 | 391.7 | 402.8 |
| 37.5° | 354.1 | 303.2 | 263.4 | 230.2 | 216.9 | 228.0 | 258.9 | 298.8 | 338.6 | 360.8 | 376.3 |
| 40°   | 316.5 | 252.3 | 205.8 | 179.3 | 166.0 | 177.1 | 208.0 | 247.9 | 301.0 | 329.8 | 349.7 |
| 42.5° | 278.9 | 208.0 | 166.0 | 139.4 | 132.8 | 139.4 | 163.8 | 203.6 | 261.2 | 296.6 | 323.1 |
| 45°   | 241.2 | 172.6 | 132.8 | 112.9 | 106.2 | 112.9 | 132.8 | 166.0 | 223.5 | 263.4 | 294.4 |
| 47.5° | 208.0 | 146.1 | 110.7 | 93.0  | 88.5  | 95.2  | 110.7 | 139.4 | 188.1 | 228.0 | 263.4 |
| 50°   | 181.5 | 128.4 | 95.2  | 79.7  | 75.3  | 81.9  | 95.2  | 117.3 | 159.4 | 194.8 | 232.4 |
| 52.5° | 163.8 | 119.5 | 84.1  | 68.6  | 66.4  | 70.8  | 81.9  | 99.6  | 135.0 | 166.0 | 201.4 |
| 55°   | 159.4 | 119.5 | 77.5  | 62.0  | 59.8  | 64.2  | 73.0  | 86.3  | 117.3 | 143.9 | 174.8 |
| 57.5° | 163.8 | 128.4 | 73.0  | 53.1  | 50.9  | 55.3  | 64.2  | 75.3  | 101.8 | 123.9 | 152.7 |
| 60°   | 163.8 | 130.6 | 64.2  | 42.1  | 39.8  | 44.3  | 53.1  | 66.4  | 90.7  | 108.4 | 132.8 |
| 62.5° | 148.3 | 119.5 | 53.1  | 33.2  | 28.8  | 33.2  | 44.3  | 55.3  | 79.7  | 97.4  | 117.3 |
| 65°   | 128.4 | 101.8 | 44.3  | 24.3  | 19.9  | 24.3  | 35.4  | 46.5  | 68.6  | 84.1  | 106.2 |
| 67.5° | 104.0 | 77.5  | 33.2  | 17.7  | 13.3  | 17.7  | 26.6  | 37.6  | 57.5  | 73.0  | 95.2  |
| 70°   | 77.5  | 55.3  | 26.6  | 15.5  | 13.3  | 15.5  | 24.3  | 35.4  | 50.9  | 66.4  | 88.5  |
| 72.5° | 57.5  | 37.6  | 22.1  | 15.5  | 11.1  | 15.5  | 22.1  | 33.2  | 48.7  | 64.2  | 84.1  |
| 75°   | 48.7  | 31.0  | 19.9  | 13.3  | 11.1  | 13.3  | 19.9  | 31.0  | 44.3  | 59.8  | 79.7  |
| 77.5° | 46.5  | 28.8  | 17.7  | 11.1  | 8.9   | 11.1  | 17.7  | 26.6  | 39.8  | 55.3  | 77.5  |
| 80°   | 39.8  | 24.3  | 15.5  | 8.9   | 6.6   | 8.9   | 15.5  | 22.1  | 31.0  | 42.1  | 59.8  |
| 82.5° | 31.0  | 19.9  | 11.1  | 4.4   | 2.2   | 4.4   | 11.1  | 13.3  | 19.9  | 24.3  | 35.4  |
| 85°   | 19.9  | 11.1  | 4.4   | 0.0   | 0.0   | 0.0   | 4.4   | 8.9   | 8.9   | 11.1  | 17.7  |
| 87.5° | 8.9   | 2.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.2   | 4.4   | 6.6   |
| 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: P638375  
 CATALOG NUMBER: GWS-SA4E-760-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°  | 295°  | 305°  | 315°  | 325°  | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| 0°    | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0  | 996.0  | 996.0   | 996.0   | 996.0   |
| 2.5°  | 934.0 | 936.2 | 940.6 | 947.3 | 962.8 | 976.0  | 989.3  | 1007.0  | 1015.9  | 1015.9  |
| 5°    | 845.5 | 847.7 | 849.9 | 858.7 | 880.9 | 898.6  | 927.3  | 962.8   | 980.5   | 984.9   |
| 7.5°  | 776.8 | 781.3 | 785.7 | 792.3 | 814.5 | 838.8  | 876.4  | 942.8   | 976.0   | 982.7   |
| 10°   | 737.0 | 743.7 | 752.5 | 765.8 | 785.7 | 812.3  | 876.4  | 996.0   | 1051.3  | 1062.4  |
| 12.5° | 706.0 | 717.1 | 725.9 | 741.4 | 765.8 | 807.8  | 936.2  | 1146.5  | 1243.8  | 1270.4  |
| 15°   | 675.0 | 688.3 | 701.6 | 717.1 | 743.7 | 823.3  | 1051.3 | 1416.5  | 1578.0  | 1598.0  |
| 17.5° | 644.1 | 659.5 | 677.3 | 695.0 | 728.2 | 861.0  | 1232.8 | 1790.5  | 2016.3  | 2060.5  |
| 20°   | 608.6 | 628.6 | 652.9 | 675.0 | 712.7 | 920.7  | 1485.1 | 2235.4  | 2518.7  | 2613.8  |
| 22.5° | 571.0 | 595.4 | 624.1 | 652.9 | 695.0 | 993.7  | 1790.5 | 2713.4  | 3109.6  | 3171.6  |
| 25°   | 540.0 | 564.4 | 590.9 | 619.7 | 666.2 | 1082.3 | 2160.1 | 3306.6  | 3667.3  | 3727.1  |
| 27.5° | 511.3 | 535.6 | 560.0 | 586.5 | 637.4 | 1197.4 | 2605.0 | 3937.4  | 4313.6  | 4375.6  |
| 30°   | 480.3 | 509.0 | 533.4 | 560.0 | 610.9 | 1339.0 | 3118.5 | 4636.7  | 4993.1  | 5050.6  |
| 32.5° | 453.7 | 482.5 | 506.8 | 533.4 | 590.9 | 1493.9 | 3658.5 | 5256.5  | 5546.4  | 5546.4  |
| 35°   | 431.6 | 462.6 | 480.3 | 515.7 | 575.4 | 1593.5 | 4169.8 | 5847.4  | 6066.5  | 6057.7  |
| 37.5° | 407.2 | 444.9 | 458.1 | 482.5 | 555.5 | 1604.6 | 4650.0 | 6471.5  | 6633.1  | 6575.6  |
| 40°   | 382.9 | 422.7 | 442.6 | 455.9 | 533.4 | 1513.9 | 5176.8 | 7044.8  | 7182.0  | 7106.7  |
| 42.5° | 360.8 | 391.7 | 420.5 | 436.0 | 520.1 | 1354.5 | 5599.5 | 7657.8  | 7821.6  | 7755.2  |
| 45°   | 338.6 | 365.2 | 382.9 | 411.7 | 529.0 | 1243.8 | 5962.5 | 8372.7  | 8660.4  | 8611.7  |
| 47.5° | 316.5 | 338.6 | 349.7 | 394.0 | 588.7 | 1192.9 | 6183.8 | 9479.3  | 10021.6 | 9981.7  |
| 50°   | 292.1 | 318.7 | 318.7 | 389.5 | 677.3 | 1210.6 | 6376.4 | 11081.7 | 11920.5 | 11907.3 |
| 52.5° | 267.8 | 296.6 | 292.1 | 422.7 | 745.9 | 1292.5 | 6595.5 | 12496.0 | 13954.5 | 14076.2 |
| 55°   | 243.5 | 270.0 | 274.4 | 489.1 | 785.7 | 1363.4 | 5747.8 | 13091.3 | 15691.9 | 16119.1 |
| 57.5° | 216.9 | 232.4 | 285.5 | 540.0 | 772.4 | 1569.2 | 3937.4 | 13199.8 | 16800.7 | 17717.0 |
| 60°   | 188.1 | 201.4 | 323.1 | 529.0 | 730.4 | 1449.7 | 2478.8 | 12226.0 | 16643.6 | 17805.6 |
| 62.5° | 163.8 | 185.9 | 340.8 | 467.0 | 743.7 | 1257.1 | 1580.3 | 10420.0 | 15145.2 | 16471.0 |
| 65°   | 143.9 | 179.3 | 309.9 | 422.7 | 752.5 | 852.1  | 1066.8 | 8476.7  | 13682.3 | 14943.8 |
| 67.5° | 128.4 | 199.2 | 254.5 | 376.3 | 646.3 | 599.8  | 732.6  | 6586.6  | 11504.5 | 12635.4 |
| 70°   | 117.3 | 203.6 | 208.0 | 323.1 | 500.2 | 385.1  | 482.5  | 4433.1  | 7930.1  | 9222.6  |
| 72.5° | 106.2 | 150.5 | 157.1 | 258.9 | 323.1 | 234.6  | 312.1  | 2536.4  | 5781.0  | 6661.9  |
| 75°   | 101.8 | 101.8 | 108.4 | 168.2 | 179.3 | 170.4  | 201.4  | 1513.9  | 4145.4  | 4789.5  |
| 77.5° | 95.2  | 77.5  | 68.6  | 108.4 | 97.4  | 121.7  | 119.5  | 672.8   | 1797.2  | 1943.2  |
| 80°   | 75.3  | 55.3  | 46.5  | 68.6  | 66.4  | 81.9   | 70.8   | 55.3    | 81.9    | 79.7    |
| 82.5° | 46.5  | 35.4  | 33.2  | 42.1  | 37.6  | 42.1   | 33.2   | 8.9     | 8.9     | 8.9     |
| 85°   | 22.1  | 19.9  | 17.7  | 17.7  | 19.9  | 17.7   | 13.3   | 4.4     | 2.2     | 2.2     |
| 87.5° | 11.1  | 11.1  | 8.9   | 6.6   | 8.9   | 8.9    | 6.6    | 2.2     | 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     |

(END OF REPORT)