

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: P630892

Luminaire Tested: GWS-SA1E-750-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-750-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

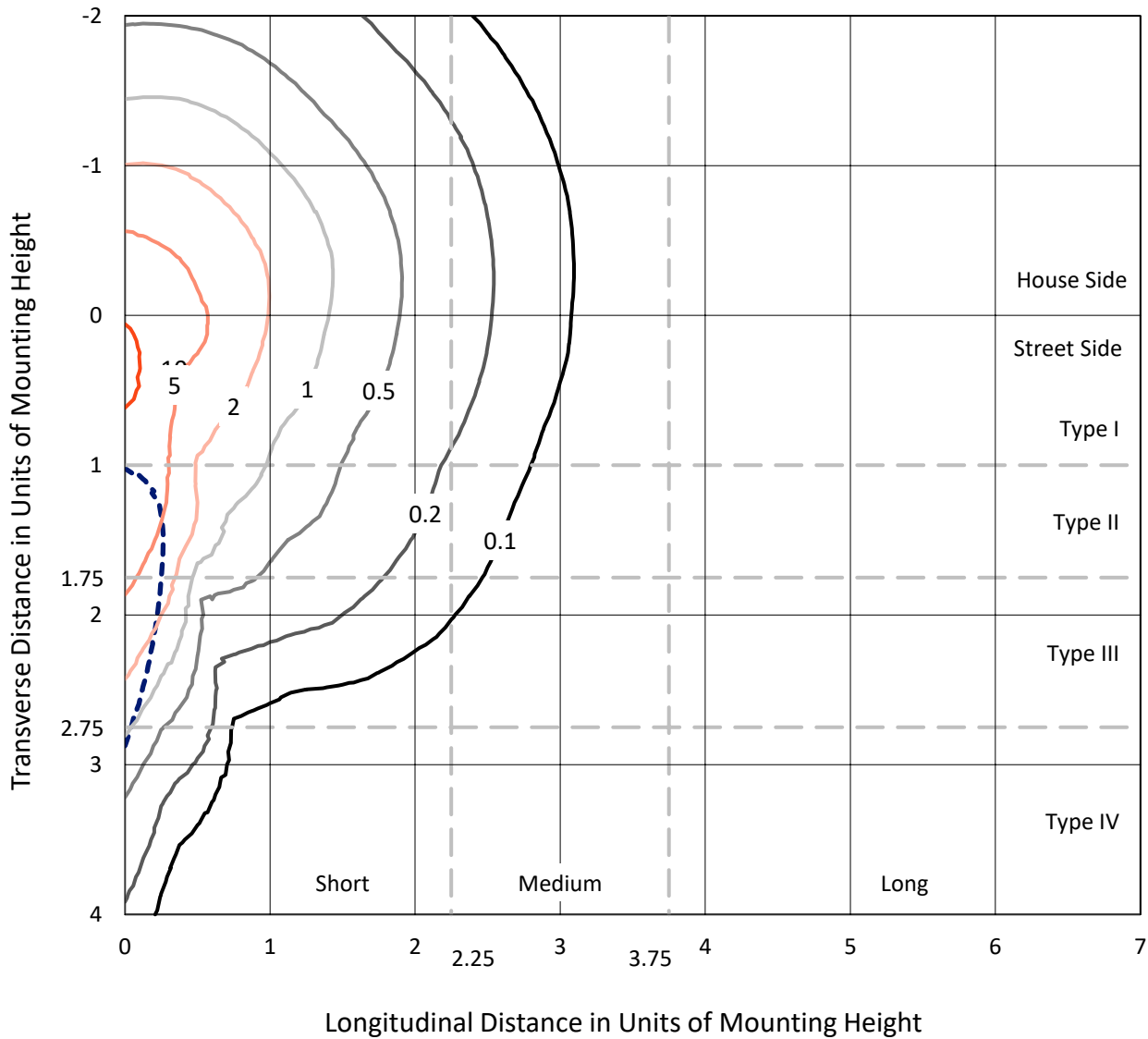
Lumens per Lamp: N/A  
Luminaire Lumens: 7264.7 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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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 CATALOG NUMBER: GWS-SA1E-750-U-SLL-W

### Iso-Footcandle Lines of Horizontal Illumination

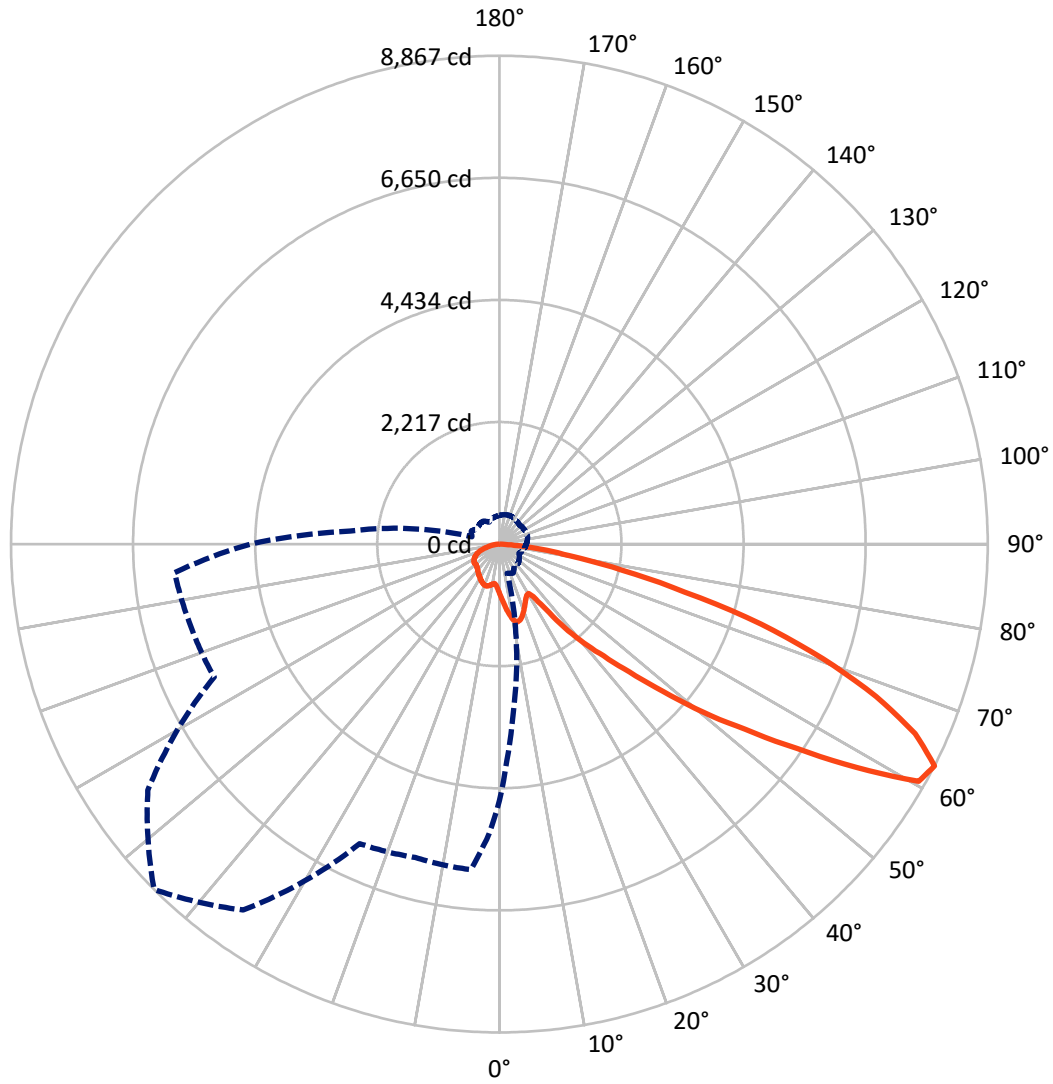
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: GWS-SA1E-750-U-SLL-W

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1737.0   | 0.0    | 1737.0 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 5527.7   | 0.0    | 5527.7 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 7264.7   | 0.0    | 7264.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.2   | 1.2       |
| 10°-20°   | 290.0  | 4.0       |
| 20°-30°   | 456.5  | 6.3       |
| 30°-40°   | 625.8  | 8.6       |
| 40°-50°   | 976.4  | 13.4      |
| 50°-60°   | 1683.5 | 23.2      |
| 60°-70°   | 1950.9 | 26.9      |
| 70°-80°   | 1029.8 | 14.2      |
| 80°-90°   | 162.7  | 2.2       |
| 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°    | 7264.7 | 100.0     |
| 0°-180°   | 7264.7 | 100.0     |

**Coefficient of Utilization**



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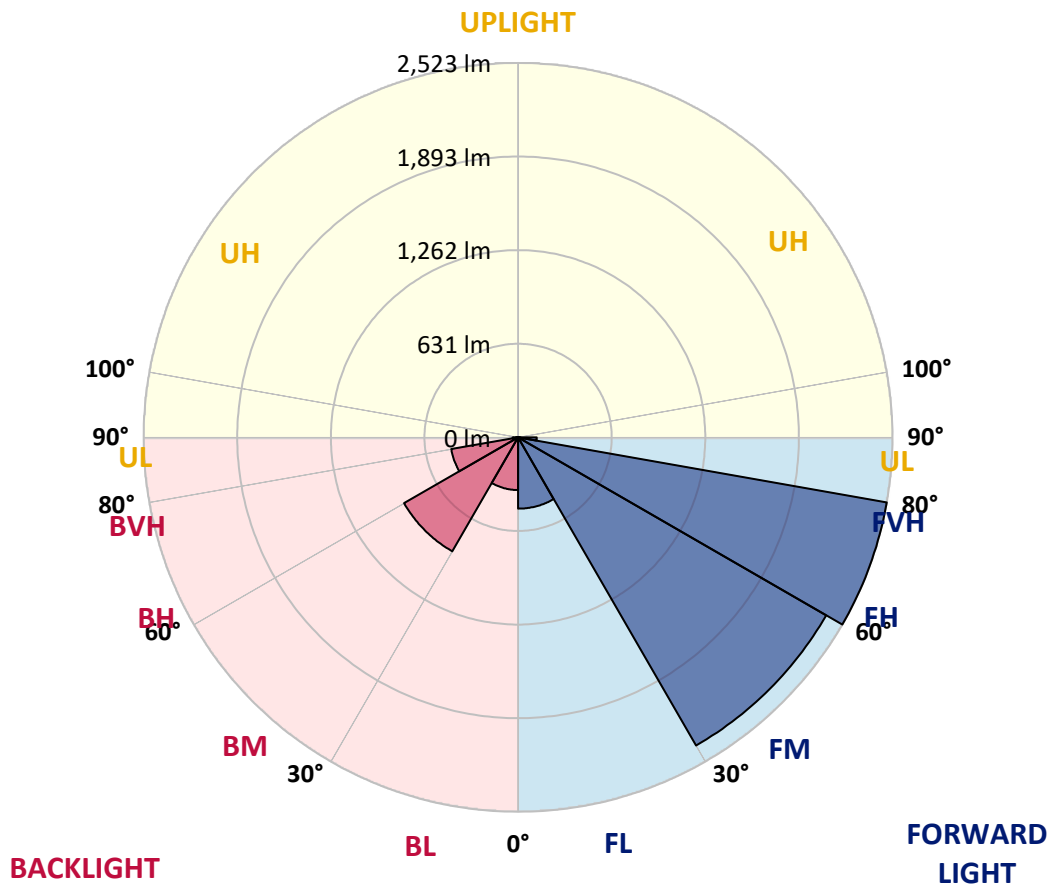
CATALOG NUMBER: GWS-SA1E-750-U-SLL-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 480.5  | 6.6       |                         |      |         |
| FM (30°-60°)   | 2398.3 | 33.0      |                         |      |         |
| FH (60°-80°)   | 2523.3 | 34.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 125.6  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 355.3  | 4.9       | B1/500                  |      |         |
| BM (30°-60°)   | 887.2  | 12.2      | B1/1000                 |      |         |
| BH (60°-80°)   | 457.4  | 6.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 37.1   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2°     | 5°     | 15°    | 25°    | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°    | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 |
| 2.5°  | 984.1  | 980.2  | 974.7  | 955.8  | 944.1  | 930.8 | 916.9 | 900.8 | 882.4 | 869.6 | 856.9 |
| 5°    | 1067.5 | 1061.3 | 1048.0 | 1003.0 | 971.9  | 938.0 | 909.6 | 877.4 | 845.7 | 824.1 | 802.4 |
| 7.5°  | 1147.5 | 1139.7 | 1119.1 | 1050.2 | 999.7  | 950.8 | 908.0 | 861.3 | 814.1 | 781.8 | 756.3 |
| 10°   | 1227.5 | 1211.4 | 1185.3 | 1095.2 | 1028.6 | 971.9 | 923.0 | 865.7 | 803.0 | 759.1 | 731.8 |
| 12.5° | 1288.6 | 1273.6 | 1245.3 | 1136.4 | 1057.5 | 986.3 | 931.3 | 878.5 | 825.2 | 778.5 | 750.7 |
| 15°   | 1345.9 | 1326.4 | 1294.2 | 1174.7 | 1081.4 | 985.8 | 914.6 | 868.5 | 860.7 | 849.1 | 813.0 |
| 17.5° | 1387.0 | 1369.2 | 1335.9 | 1205.8 | 1094.7 | 968.5 | 868.5 | 841.3 | 876.3 | 911.9 | 877.4 |
| 20°   | 1423.1 | 1402.5 | 1368.6 | 1227.5 | 1097.5 | 930.2 | 812.4 | 813.0 | 868.0 | 916.9 | 908.5 |
| 22.5° | 1453.7 | 1430.9 | 1400.9 | 1251.9 | 1096.4 | 876.9 | 763.5 | 796.8 | 851.9 | 890.2 | 891.3 |
| 25°   | 1491.4 | 1472.6 | 1447.5 | 1288.1 | 1096.4 | 822.4 | 727.9 | 777.4 | 824.6 | 856.9 | 855.7 |
| 27.5° | 1537.6 | 1524.8 | 1504.2 | 1343.1 | 1106.4 | 776.8 | 707.9 | 752.4 | 789.6 | 817.4 | 816.8 |
| 30°   | 1589.2 | 1577.6 | 1562.0 | 1401.4 | 1123.6 | 742.9 | 696.8 | 721.3 | 748.5 | 770.7 | 770.7 |
| 32.5° | 1642.0 | 1637.6 | 1620.9 | 1448.1 | 1110.2 | 732.4 | 687.4 | 690.2 | 704.6 | 722.9 | 721.3 |
| 35°   | 1715.4 | 1710.9 | 1689.8 | 1484.2 | 1052.5 | 717.4 | 672.4 | 658.5 | 660.1 | 671.8 | 675.7 |
| 37.5° | 1822.6 | 1816.0 | 1784.8 | 1526.5 | 965.2  | 679.6 | 647.9 | 625.1 | 620.1 | 625.1 | 632.4 |
| 40°   | 1952.1 | 1942.1 | 1899.9 | 1583.7 | 864.6  | 628.5 | 609.6 | 590.7 | 582.4 | 584.0 | 592.4 |
| 42.5° | 2114.4 | 2093.2 | 2032.7 | 1644.3 | 765.2  | 583.5 | 566.8 | 555.1 | 545.7 | 544.6 | 560.7 |
| 45°   | 2377.8 | 2320.0 | 2223.8 | 1698.2 | 681.3  | 559.6 | 528.5 | 520.1 | 512.3 | 516.8 | 535.7 |
| 47.5° | 2837.9 | 2731.2 | 2543.9 | 1744.3 | 630.1  | 560.1 | 497.9 | 489.0 | 488.4 | 497.3 | 518.4 |
| 50°   | 3470.2 | 3316.3 | 3027.3 | 1775.4 | 603.5  | 566.8 | 479.6 | 465.1 | 475.7 | 484.6 | 504.6 |
| 52.5° | 4075.9 | 3840.9 | 3496.9 | 1774.8 | 591.8  | 567.9 | 484.6 | 442.9 | 475.7 | 477.9 | 496.8 |
| 55°   | 4593.2 | 4167.6 | 3623.6 | 1592.6 | 575.1  | 563.5 | 504.0 | 425.7 | 469.5 | 477.9 | 492.9 |
| 57.5° | 5004.5 | 4375.4 | 3614.1 | 1286.4 | 625.7  | 539.0 | 515.7 | 421.8 | 451.8 | 479.0 | 496.2 |
| 60°   | 4958.9 | 4280.4 | 3381.3 | 789.6  | 620.7  | 495.7 | 514.0 | 429.0 | 421.8 | 464.0 | 492.3 |
| 62.5° | 4656.0 | 3939.8 | 2980.7 | 547.9  | 582.9  | 470.7 | 486.8 | 441.8 | 394.0 | 442.3 | 473.4 |
| 65°   | 4232.1 | 3500.2 | 2483.9 | 420.1  | 482.9  | 471.8 | 440.7 | 432.9 | 369.5 | 407.9 | 441.2 |
| 67.5° | 3671.4 | 2955.1 | 1961.0 | 332.9  | 336.7  | 408.4 | 400.1 | 384.5 | 346.7 | 377.3 | 407.3 |
| 70°   | 2760.1 | 2156.6 | 1349.2 | 267.8  | 255.1  | 341.2 | 359.5 | 345.6 | 324.5 | 333.4 | 365.1 |
| 72.5° | 1944.9 | 1408.1 | 739.1  | 212.3  | 196.7  | 262.3 | 312.3 | 310.1 | 286.7 | 293.4 | 324.5 |
| 75°   | 1445.3 | 996.3  | 461.8  | 167.8  | 160.0  | 187.8 | 261.7 | 268.4 | 248.9 | 256.7 | 280.6 |
| 77.5° | 961.9  | 645.1  | 256.7  | 124.5  | 124.5  | 137.3 | 195.0 | 226.2 | 211.7 | 217.8 | 234.5 |
| 80°   | 530.7  | 328.4  | 128.4  | 81.7   | 83.9   | 94.5  | 142.3 | 162.8 | 163.4 | 178.4 | 182.8 |
| 82.5° | 167.8  | 104.5  | 57.2   | 47.8   | 45.0   | 53.9  | 91.7  | 116.7 | 108.9 | 138.9 | 127.8 |
| 85°   | 38.3   | 24.4   | 10.6   | 10.6   | 11.7   | 17.8  | 35.0  | 62.2  | 79.5  | 95.6  | 69.5  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.6   | 24.4  | 36.1  | 32.2  |
| 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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 CATALOG NUMBER: GWS-SA1E-750-U-SLL-W

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 |
| 2.5°  | 849.1 | 838.0 | 834.6 | 825.2 | 824.1 | 815.2 | 811.8 | 811.8 | 815.7 | 815.7 | 819.6 |
| 5°    | 793.5 | 779.6 | 771.8 | 760.7 | 757.9 | 751.3 | 746.8 | 747.4 | 752.4 | 755.7 | 762.4 |
| 7.5°  | 744.6 | 735.2 | 729.6 | 724.6 | 723.5 | 722.4 | 717.4 | 716.8 | 718.5 | 723.5 | 728.5 |
| 10°   | 724.1 | 717.4 | 719.0 | 722.9 | 729.1 | 732.4 | 727.9 | 725.7 | 724.1 | 727.4 | 731.8 |
| 12.5° | 744.1 | 737.4 | 740.7 | 747.4 | 755.7 | 759.1 | 757.4 | 756.8 | 758.5 | 771.3 | 780.7 |
| 15°   | 788.0 | 775.2 | 770.7 | 773.5 | 780.2 | 783.5 | 781.8 | 784.1 | 794.6 | 828.0 | 851.9 |
| 17.5° | 842.4 | 811.3 | 793.5 | 788.5 | 791.3 | 794.1 | 794.1 | 799.6 | 818.0 | 866.9 | 896.9 |
| 20°   | 871.9 | 831.3 | 801.3 | 789.1 | 790.2 | 793.0 | 793.0 | 800.7 | 821.3 | 873.5 | 893.0 |
| 22.5° | 864.1 | 826.9 | 790.2 | 776.8 | 777.4 | 779.6 | 779.6 | 786.3 | 804.6 | 850.7 | 859.6 |
| 25°   | 833.5 | 800.7 | 764.6 | 752.9 | 754.1 | 757.9 | 756.8 | 760.7 | 774.6 | 812.4 | 817.4 |
| 27.5° | 796.8 | 767.9 | 732.4 | 723.5 | 728.5 | 736.3 | 729.6 | 730.2 | 742.9 | 774.6 | 775.2 |
| 30°   | 757.4 | 733.5 | 701.8 | 695.2 | 704.6 | 708.5 | 702.4 | 702.4 | 715.2 | 736.8 | 736.3 |
| 32.5° | 714.6 | 699.6 | 676.8 | 669.6 | 680.2 | 686.3 | 678.5 | 679.6 | 689.6 | 704.0 | 698.5 |
| 35°   | 674.6 | 666.8 | 656.3 | 651.3 | 657.9 | 663.5 | 658.5 | 660.7 | 670.1 | 674.0 | 666.3 |
| 37.5° | 636.3 | 635.1 | 636.3 | 636.3 | 637.9 | 639.6 | 636.3 | 641.8 | 650.1 | 645.1 | 636.3 |
| 40°   | 602.9 | 607.4 | 617.9 | 615.1 | 613.5 | 615.1 | 612.9 | 622.4 | 630.7 | 621.8 | 611.2 |
| 42.5° | 575.1 | 583.5 | 599.6 | 599.6 | 596.2 | 597.4 | 596.2 | 607.9 | 614.0 | 601.8 | 590.1 |
| 45°   | 551.2 | 563.5 | 584.0 | 586.8 | 581.2 | 581.2 | 583.5 | 597.9 | 600.1 | 583.5 | 571.2 |
| 47.5° | 534.6 | 549.6 | 572.9 | 577.9 | 569.6 | 569.0 | 575.1 | 590.7 | 590.7 | 571.2 | 557.3 |
| 50°   | 522.9 | 539.6 | 567.3 | 574.0 | 565.7 | 563.5 | 573.5 | 588.5 | 585.1 | 561.8 | 547.9 |
| 52.5° | 515.1 | 532.3 | 566.8 | 576.2 | 570.7 | 568.5 | 578.5 | 589.0 | 580.7 | 555.7 | 541.2 |
| 55°   | 510.1 | 529.0 | 568.5 | 576.2 | 570.1 | 566.2 | 576.2 | 585.7 | 581.2 | 552.3 | 538.5 |
| 57.5° | 512.9 | 531.8 | 566.2 | 570.1 | 562.9 | 556.2 | 567.9 | 581.2 | 579.6 | 553.5 | 539.6 |
| 60°   | 508.4 | 525.7 | 554.0 | 555.1 | 542.9 | 532.3 | 549.6 | 569.6 | 569.6 | 549.6 | 537.3 |
| 62.5° | 487.9 | 505.1 | 530.1 | 531.2 | 517.3 | 505.7 | 525.7 | 549.6 | 549.0 | 532.9 | 520.1 |
| 65°   | 454.0 | 470.1 | 498.4 | 501.2 | 487.3 | 475.1 | 495.7 | 517.9 | 519.6 | 505.1 | 494.0 |
| 67.5° | 416.8 | 431.2 | 452.3 | 463.4 | 451.8 | 439.0 | 457.9 | 479.0 | 478.4 | 461.2 | 449.5 |
| 70°   | 372.3 | 385.6 | 405.1 | 414.5 | 407.3 | 395.1 | 412.3 | 423.4 | 418.4 | 410.1 | 402.3 |
| 72.5° | 328.4 | 341.2 | 359.5 | 359.5 | 351.7 | 340.1 | 345.1 | 365.1 | 371.2 | 365.1 | 360.1 |
| 75°   | 282.3 | 293.4 | 306.2 | 309.0 | 291.7 | 270.6 | 294.0 | 311.2 | 318.4 | 315.6 | 309.5 |
| 77.5° | 235.1 | 243.4 | 262.3 | 257.3 | 225.1 | 213.9 | 232.8 | 258.4 | 263.4 | 261.7 | 253.4 |
| 80°   | 181.2 | 186.2 | 206.2 | 196.2 | 171.1 | 163.9 | 172.3 | 192.3 | 193.4 | 187.8 | 177.3 |
| 82.5° | 121.7 | 128.4 | 141.7 | 122.2 | 121.7 | 115.0 | 108.4 | 110.6 | 120.6 | 119.5 | 112.2 |
| 85°   | 62.2  | 65.6  | 78.4  | 73.3  | 62.8  | 54.5  | 51.7  | 55.0  | 49.5  | 45.0  | 38.9  |
| 87.5° | 26.1  | 28.3  | 38.9  | 21.7  | 6.7   | 0.0   | 0.0   | 3.3   | 5.0   | 7.2   | 7.8   |
| 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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 CATALOG NUMBER: GWS-SA1E-750-U-SLL-W

**CANDELA DISTRIBUTION (continued):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8 | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  |
| 2.5°  | 828.5 | 834.6 | 849.6 | 868.5 | 886.9 | 905.8 | 926.3  | 939.1  | 954.7  | 974.7  | 975.2  |
| 5°    | 770.7 | 784.6 | 806.3 | 835.2 | 865.2 | 899.6 | 939.7  | 973.0  | 1013.0 | 1044.7 | 1057.5 |
| 7.5°  | 735.2 | 755.2 | 782.4 | 819.1 | 858.5 | 901.3 | 953.5  | 1009.7 | 1075.2 | 1117.5 | 1142.5 |
| 10°   | 738.5 | 769.1 | 796.3 | 827.4 | 863.0 | 909.1 | 976.3  | 1050.8 | 1131.4 | 1186.9 | 1218.0 |
| 12.5° | 798.0 | 830.2 | 825.2 | 823.5 | 847.4 | 903.5 | 994.7  | 1092.5 | 1190.8 | 1246.4 | 1283.6 |
| 15°   | 873.0 | 885.2 | 838.0 | 802.4 | 816.8 | 883.5 | 1004.7 | 1129.7 | 1240.3 | 1308.1 | 1344.7 |
| 17.5° | 911.3 | 886.9 | 829.6 | 776.3 | 772.4 | 853.0 | 1009.7 | 1167.5 | 1295.8 | 1363.6 | 1402.5 |
| 20°   | 893.5 | 858.0 | 809.6 | 759.1 | 731.3 | 811.3 | 1006.9 | 1197.5 | 1346.4 | 1422.0 | 1453.7 |
| 22.5° | 855.2 | 824.1 | 786.3 | 737.9 | 697.9 | 765.7 | 999.7  | 1227.5 | 1391.4 | 1467.5 | 1495.3 |
| 25°   | 813.5 | 790.2 | 759.1 | 716.8 | 679.0 | 725.7 | 994.7  | 1267.5 | 1443.1 | 1515.9 | 1533.7 |
| 27.5° | 771.8 | 754.6 | 729.1 | 696.3 | 674.6 | 697.9 | 996.3  | 1319.7 | 1509.8 | 1578.7 | 1571.5 |
| 30°   | 730.7 | 715.7 | 697.9 | 683.5 | 674.0 | 691.3 | 991.9  | 1375.3 | 1583.1 | 1647.0 | 1604.2 |
| 32.5° | 691.8 | 677.9 | 666.8 | 669.0 | 674.6 | 694.0 | 969.1  | 1425.9 | 1650.4 | 1704.8 | 1639.8 |
| 35°   | 658.5 | 644.0 | 644.0 | 651.8 | 672.4 | 684.6 | 910.2  | 1465.3 | 1724.8 | 1779.3 | 1690.4 |
| 37.5° | 627.4 | 614.6 | 622.9 | 635.7 | 655.1 | 659.0 | 834.6  | 1503.7 | 1833.2 | 1884.3 | 1768.7 |
| 40°   | 600.1 | 587.4 | 602.4 | 618.5 | 628.5 | 626.8 | 757.9  | 1557.0 | 1961.0 | 2013.8 | 1872.6 |
| 42.5° | 578.5 | 566.8 | 580.1 | 600.7 | 602.4 | 604.0 | 701.8  | 1608.1 | 2109.4 | 2176.6 | 2051.6 |
| 45°   | 560.7 | 552.3 | 559.0 | 579.6 | 579.6 | 605.1 | 666.8  | 1650.9 | 2332.7 | 2451.7 | 2380.0 |
| 47.5° | 546.8 | 541.8 | 545.1 | 551.8 | 562.9 | 625.1 | 644.6  | 1683.7 | 2739.5 | 2972.9 | 2900.6 |
| 50°   | 539.0 | 534.0 | 538.5 | 524.6 | 557.9 | 635.1 | 637.4  | 1708.7 | 3275.7 | 3641.4 | 3551.9 |
| 52.5° | 532.3 | 530.7 | 533.5 | 501.2 | 569.0 | 628.5 | 631.8  | 1675.4 | 3635.3 | 4299.3 | 4387.6 |
| 55°   | 530.1 | 531.2 | 517.9 | 484.0 | 582.4 | 606.2 | 615.1  | 1437.0 | 3733.1 | 4866.6 | 5415.1 |
| 57.5° | 531.2 | 527.9 | 494.0 | 485.7 | 582.9 | 561.8 | 639.0  | 1025.2 | 3590.8 | 5113.4 | 6420.3 |
| 60°   | 527.3 | 510.7 | 465.1 | 500.7 | 557.3 | 509.6 | 621.8  | 668.5  | 3215.7 | 4923.9 | 6478.7 |
| 62.5° | 510.1 | 485.7 | 440.1 | 509.0 | 511.8 | 478.4 | 564.6  | 515.1  | 2715.6 | 4518.2 | 5916.3 |
| 65°   | 485.1 | 452.3 | 419.0 | 491.8 | 465.7 | 464.0 | 424.5  | 412.9  | 2183.8 | 4035.3 | 5382.9 |
| 67.5° | 444.0 | 411.2 | 403.4 | 452.3 | 419.0 | 411.2 | 341.2  | 342.3  | 1742.6 | 3520.8 | 4846.6 |
| 70°   | 397.3 | 364.5 | 370.6 | 409.0 | 372.9 | 341.7 | 276.2  | 285.1  | 1322.0 | 2933.4 | 4123.7 |
| 72.5° | 366.7 | 322.8 | 323.4 | 360.1 | 327.9 | 276.7 | 227.3  | 235.1  | 839.1  | 2211.0 | 3278.5 |
| 75°   | 309.5 | 284.5 | 272.3 | 291.7 | 278.4 | 215.6 | 191.2  | 189.5  | 497.3  | 1584.8 | 2455.0 |
| 77.5° | 258.4 | 238.9 | 232.8 | 240.6 | 207.8 | 159.5 | 153.9  | 151.1  | 281.7  | 1015.2 | 1608.7 |
| 80°   | 187.3 | 182.3 | 181.7 | 185.6 | 160.0 | 117.2 | 117.2  | 117.8  | 151.7  | 551.2  | 906.9  |
| 82.5° | 118.9 | 130.0 | 115.0 | 127.8 | 108.9 | 83.4  | 77.8   | 88.4   | 87.2   | 235.1  | 382.3  |
| 85°   | 49.5  | 67.8  | 63.3  | 67.2  | 51.7  | 45.6  | 48.9   | 52.8   | 50.6   | 90.6   | 148.9  |
| 87.5° | 9.4   | 11.1  | 12.2  | 11.7  | 11.7  | 14.4  | 16.1   | 19.4   | 19.4   | 26.1   | 45.0   |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 358°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  | 905.8  |
| 2.5°  | 996.3  | 1012.4 | 1009.1 | 1016.3 | 1006.9 | 1010.2 | 991.3  | 986.3  | 983.0  | 984.1  |
| 5°    | 1098.6 | 1131.4 | 1137.5 | 1149.7 | 1141.4 | 1141.4 | 1108.0 | 1083.0 | 1074.1 | 1067.5 |
| 7.5°  | 1202.5 | 1249.7 | 1280.8 | 1284.2 | 1279.7 | 1270.8 | 1222.5 | 1177.5 | 1161.4 | 1147.5 |
| 10°   | 1294.7 | 1351.4 | 1386.4 | 1403.1 | 1394.8 | 1380.9 | 1320.9 | 1259.2 | 1239.7 | 1227.5 |
| 12.5° | 1365.3 | 1415.3 | 1438.7 | 1449.8 | 1448.7 | 1443.7 | 1394.8 | 1328.1 | 1307.5 | 1288.6 |
| 15°   | 1410.9 | 1435.9 | 1427.0 | 1426.4 | 1434.2 | 1454.2 | 1439.2 | 1387.0 | 1363.1 | 1345.9 |
| 17.5° | 1440.3 | 1416.4 | 1377.0 | 1358.6 | 1375.3 | 1422.5 | 1457.0 | 1427.5 | 1405.9 | 1387.0 |
| 20°   | 1450.9 | 1365.9 | 1308.6 | 1274.7 | 1294.2 | 1362.5 | 1447.5 | 1457.0 | 1438.7 | 1423.1 |
| 22.5° | 1438.7 | 1304.2 | 1226.4 | 1186.4 | 1205.3 | 1287.0 | 1419.8 | 1480.9 | 1468.7 | 1453.7 |
| 25°   | 1408.6 | 1239.7 | 1146.4 | 1110.2 | 1130.8 | 1214.2 | 1370.3 | 1503.1 | 1503.7 | 1491.4 |
| 27.5° | 1371.4 | 1180.3 | 1090.2 | 1056.3 | 1076.4 | 1154.1 | 1322.0 | 1522.6 | 1542.0 | 1537.6 |
| 30°   | 1333.6 | 1144.7 | 1063.6 | 1039.7 | 1054.7 | 1123.6 | 1272.5 | 1542.6 | 1581.5 | 1589.2 |
| 32.5° | 1316.4 | 1161.9 | 1126.4 | 1136.9 | 1117.5 | 1141.4 | 1254.7 | 1570.9 | 1629.3 | 1642.0 |
| 35°   | 1339.2 | 1314.7 | 1404.8 | 1446.4 | 1377.5 | 1287.0 | 1277.5 | 1613.7 | 1696.5 | 1715.4 |
| 37.5° | 1449.8 | 1642.0 | 1776.5 | 1923.2 | 1803.7 | 1604.2 | 1390.3 | 1686.5 | 1792.6 | 1822.6 |
| 40°   | 1690.4 | 1927.7 | 2170.5 | 2360.0 | 2179.4 | 1911.0 | 1604.8 | 1794.8 | 1924.9 | 1952.1 |
| 42.5° | 1917.1 | 2195.5 | 2530.0 | 2775.1 | 2540.6 | 2161.6 | 1836.0 | 1977.1 | 2099.4 | 2114.4 |
| 45°   | 2139.4 | 2458.3 | 2965.1 | 3305.7 | 2987.3 | 2400.0 | 2072.1 | 2285.0 | 2377.2 | 2377.8 |
| 47.5° | 2400.0 | 2754.5 | 3510.8 | 3995.9 | 3580.2 | 2663.9 | 2293.8 | 2772.3 | 2900.6 | 2837.9 |
| 50°   | 2711.7 | 3049.0 | 4072.6 | 4798.8 | 4303.2 | 2988.4 | 2575.6 | 3366.3 | 3541.3 | 3470.2 |
| 52.5° | 3129.0 | 3373.5 | 4691.6 | 5581.8 | 5091.1 | 3358.0 | 2984.0 | 4150.9 | 4208.7 | 4075.9 |
| 55°   | 3716.4 | 3842.0 | 5486.2 | 6548.7 | 5970.8 | 3813.1 | 3581.4 | 5135.6 | 4973.9 | 4593.2 |
| 57.5° | 5053.9 | 4583.2 | 6506.5 | 7651.7 | 6966.0 | 4639.9 | 4890.5 | 6221.4 | 5646.3 | 5004.5 |
| 60°   | 6173.0 | 5483.4 | 7450.6 | 8746.4 | 7819.0 | 5551.2 | 6119.7 | 6410.3 | 5621.3 | 4958.9 |
| 62.5° | 5795.7 | 5712.9 | 7791.2 | 8867.0 | 8110.1 | 5999.7 | 5891.3 | 5934.1 | 5254.5 | 4656.0 |
| 65°   | 5085.0 | 5270.1 | 7487.2 | 8295.2 | 7787.3 | 5597.9 | 5329.0 | 5494.0 | 4835.0 | 4232.1 |
| 67.5° | 4665.5 | 4801.6 | 6946.6 | 7380.0 | 7200.5 | 5163.4 | 4891.6 | 4772.2 | 4183.7 | 3671.4 |
| 70°   | 4236.5 | 4349.3 | 6187.5 | 6231.4 | 6285.3 | 4441.0 | 3999.8 | 3644.1 | 3118.5 | 2760.1 |
| 72.5° | 3660.8 | 3666.9 | 5227.8 | 4973.3 | 5075.6 | 3475.2 | 3219.6 | 2724.5 | 2270.0 | 1944.9 |
| 75°   | 3071.2 | 2903.4 | 4138.1 | 3476.3 | 3681.4 | 2703.4 | 2673.4 | 2053.2 | 1712.0 | 1445.3 |
| 77.5° | 2341.6 | 2145.5 | 3022.9 | 2286.1 | 2585.6 | 1800.4 | 2009.9 | 1392.5 | 1204.7 | 961.9  |
| 80°   | 1572.0 | 1449.8 | 1670.4 | 1290.3 | 1691.5 | 1240.8 | 1310.8 | 789.1  | 684.0  | 530.7  |
| 82.5° | 829.1  | 707.9  | 1032.5 | 765.2  | 1020.2 | 681.8  | 491.8  | 243.9  | 207.8  | 167.8  |
| 85°   | 321.2  | 371.7  | 506.2  | 272.3  | 395.6  | 243.4  | 142.3  | 60.6   | 50.6   | 38.3   |
| 87.5° | 62.2   | 96.1   | 52.8   | 0.0    | 0.0    | 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    |

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