

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: P638811

Luminaire Tested: GWS-SA4F-750-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21072.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

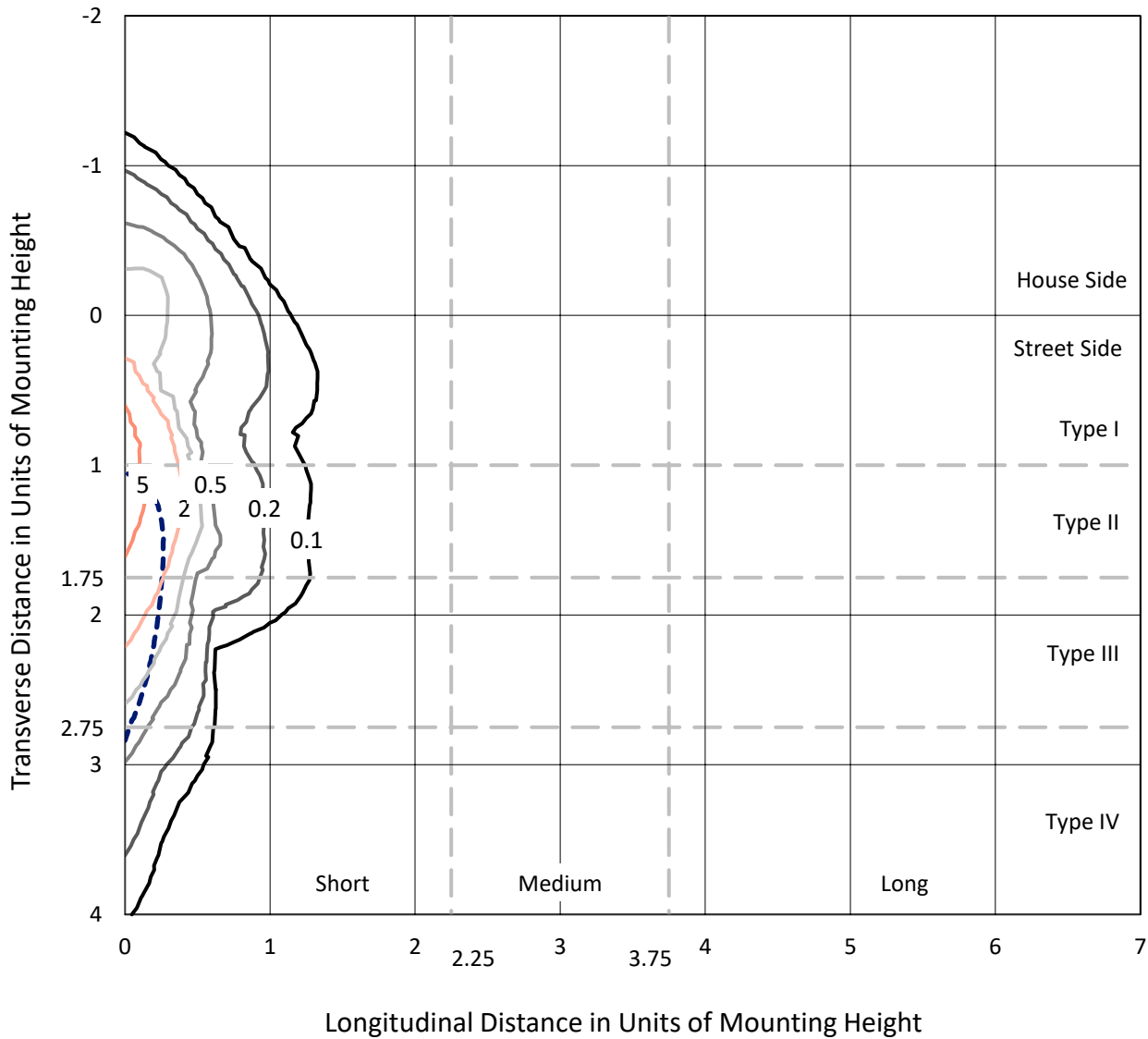
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

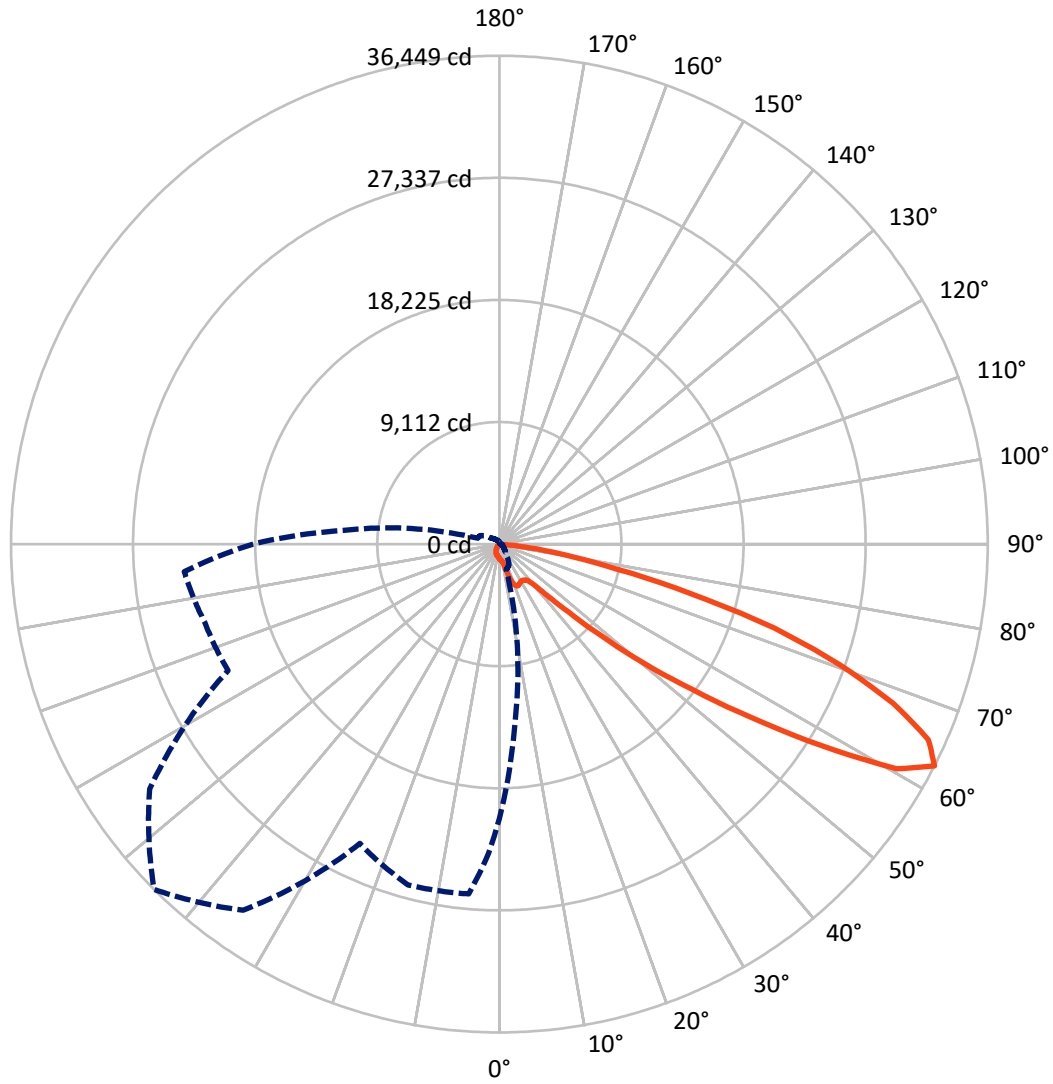
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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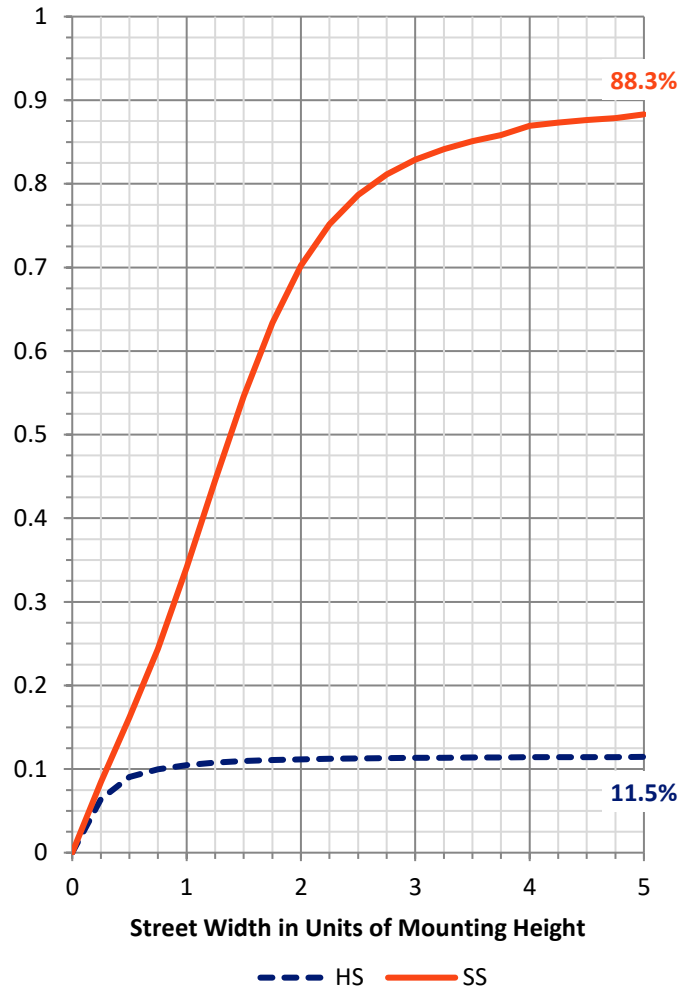
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2448.4 | 0.0 | 2448.4 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 18624.5 | 0.0 | 18624.5 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 21072.9 | 0.0 | 21072.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 94.4 | 0.4 |
| 10°-20° | 323.5 | 1.5 |
| 20°-30° | 730.8 | 3.5 |
| 30°-40° | 1258.9 | 6.0 |
| 40°-50° | 2374.7 | 11.3 |
| 50°-60° | 5302.1 | 25.2 |
| 60°-70° | 7091.5 | 33.7 |
| 70°-80° | 3556.2 | 16.9 |
| 80°-90° | 340.9 | 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° | 21072.9 | 100.0 |
| 0°-180° | 21072.9 | 100.0 |

Coefficient of Utilization



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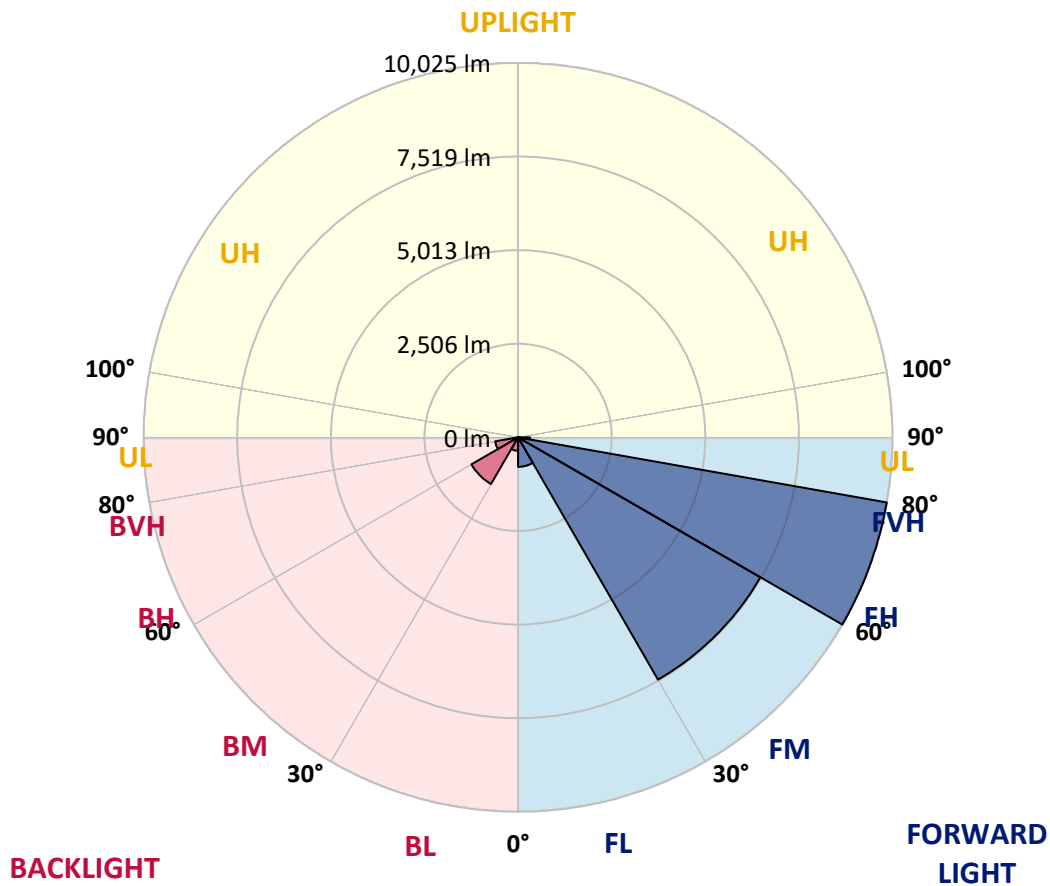
CATALOG NUMBER: GWS-SA4F-750-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 789.2 | 3.7 | | | |
| FM (30°-60°) | 7492.0 | 35.6 | | | |
| FH (60°-80°) | 10025.1 | 47.6 | | | G4/12000 |
| FVH (80°-90°) | 318.2 | 1.5 | | | G3/500 |
| BL (0°-30°) | 359.4 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1443.7 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 622.6 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 22.7 | 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 III Short





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CATALOG NUMBER: GWS-SA4F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 |
| 2.5° | 1080.4 | 1077.9 | 1072.9 | 1057.9 | 1045.5 | 1038.0 | 1023.0 | 1023.0 | 1020.5 | 1015.5 | 1005.5 |
| 5° | 1045.5 | 1035.5 | 1025.5 | 998.1 | 968.1 | 950.6 | 930.7 | 928.2 | 928.2 | 923.2 | 920.7 |
| 7.5° | 990.6 | 980.6 | 968.1 | 923.2 | 895.8 | 878.3 | 860.8 | 858.3 | 850.8 | 850.8 | 850.8 |
| 10° | 960.6 | 945.7 | 925.7 | 875.8 | 848.3 | 833.4 | 820.9 | 813.4 | 808.4 | 800.9 | 798.4 |
| 12.5° | 1025.5 | 998.1 | 955.6 | 865.8 | 828.4 | 808.4 | 793.5 | 788.5 | 773.5 | 763.5 | 756.0 |
| 15° | 1227.6 | 1160.2 | 1075.4 | 888.3 | 820.9 | 791.0 | 771.0 | 761.0 | 748.5 | 731.1 | 718.6 |
| 17.5° | 1559.5 | 1462.2 | 1319.9 | 960.6 | 813.4 | 776.0 | 751.0 | 733.6 | 716.1 | 696.1 | 681.2 |
| 20° | 2018.6 | 1873.8 | 1704.2 | 1092.9 | 813.4 | 758.5 | 728.6 | 706.1 | 681.2 | 658.7 | 641.3 |
| 22.5° | 2602.4 | 2457.7 | 2168.3 | 1317.4 | 823.4 | 736.1 | 701.1 | 671.2 | 641.3 | 621.3 | 601.3 |
| 25° | 3256.2 | 3051.6 | 2782.1 | 1589.4 | 850.8 | 706.1 | 668.7 | 638.8 | 611.3 | 586.4 | 563.9 |
| 27.5° | 3984.7 | 3762.7 | 3403.4 | 1976.2 | 910.7 | 676.2 | 633.8 | 606.3 | 581.4 | 556.4 | 526.5 |
| 30° | 4655.9 | 4523.7 | 4156.9 | 2440.2 | 1008.0 | 656.2 | 606.3 | 581.4 | 556.4 | 524.0 | 496.5 |
| 32.5° | 5461.9 | 5227.3 | 4925.4 | 2969.2 | 1137.8 | 636.3 | 583.9 | 548.9 | 529.0 | 499.0 | 469.1 |
| 35° | 6272.8 | 6073.2 | 5676.4 | 3620.4 | 1282.5 | 616.3 | 556.4 | 524.0 | 506.5 | 471.6 | 439.1 |
| 37.5° | 7108.7 | 7063.7 | 6672.0 | 4341.5 | 1424.7 | 593.8 | 524.0 | 504.0 | 486.6 | 446.6 | 409.2 |
| 40° | 7932.0 | 7849.7 | 7487.9 | 5164.9 | 1512.1 | 568.9 | 496.5 | 484.1 | 464.1 | 419.2 | 376.8 |
| 42.5° | 8720.5 | 8658.1 | 8306.3 | 5953.4 | 1499.6 | 546.4 | 469.1 | 454.1 | 439.1 | 394.2 | 341.8 |
| 45° | 9688.6 | 9586.3 | 9142.2 | 6537.3 | 1372.3 | 571.4 | 441.6 | 416.7 | 414.2 | 371.8 | 306.9 |
| 47.5° | 11500.1 | 11163.3 | 10409.7 | 6986.4 | 1245.1 | 636.3 | 411.7 | 381.8 | 399.2 | 349.3 | 272.0 |
| 50° | 14037.7 | 13640.9 | 12550.5 | 7335.7 | 1242.6 | 721.1 | 406.7 | 349.3 | 386.7 | 331.9 | 242.0 |
| 52.5° | 16587.7 | 15889.0 | 14564.1 | 7522.8 | 1334.9 | 783.5 | 451.6 | 316.9 | 371.8 | 314.4 | 219.6 |
| 55° | 19030.4 | 17580.7 | 15407.5 | 6904.0 | 1407.3 | 850.8 | 534.0 | 299.4 | 344.3 | 294.4 | 207.1 |
| 57.5° | 21358.4 | 18940.6 | 15774.3 | 5461.9 | 1649.3 | 878.3 | 583.9 | 306.9 | 304.4 | 269.5 | 197.1 |
| 60° | 21677.8 | 18875.7 | 15033.2 | 3176.3 | 1819.0 | 830.9 | 563.9 | 341.8 | 267.0 | 239.5 | 179.7 |
| 62.5° | 20470.1 | 17620.7 | 13344.0 | 1981.1 | 1689.2 | 813.4 | 501.5 | 389.2 | 242.0 | 212.1 | 157.2 |
| 65° | 18636.2 | 15652.0 | 11125.8 | 1277.5 | 1280.0 | 903.2 | 439.1 | 381.8 | 227.1 | 187.1 | 134.7 |
| 67.5° | 15769.3 | 13099.5 | 8765.4 | 855.8 | 723.6 | 771.0 | 384.3 | 262.0 | 222.1 | 159.7 | 104.8 |
| 70° | 11510.1 | 9324.3 | 5706.4 | 571.4 | 431.7 | 616.3 | 321.9 | 187.1 | 209.6 | 132.2 | 74.9 |
| 72.5° | 8413.6 | 6265.3 | 3186.3 | 374.3 | 244.5 | 359.3 | 237.0 | 134.7 | 162.2 | 97.3 | 52.4 |
| 75° | 6055.7 | 4311.6 | 1819.0 | 239.5 | 162.2 | 197.1 | 154.7 | 92.3 | 104.8 | 77.3 | 47.4 |
| 77.5° | 2914.3 | 2100.9 | 825.9 | 132.2 | 109.8 | 99.8 | 82.3 | 57.4 | 64.9 | 69.9 | 42.4 |
| 80° | 109.8 | 82.3 | 62.4 | 64.9 | 69.9 | 44.9 | 37.4 | 29.9 | 37.4 | 47.4 | 22.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 7.5 | 10.0 | 12.5 | 15.0 | 12.5 | 15.0 | 17.5 | 2.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GWS-SA4F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 |
| 2.5° | 1013.0 | 1008.0 | 1013.0 | 1018.0 | 1023.0 | 1028.0 | 1020.5 | 1025.5 | 1030.5 | 1018.0 | 1023.0 |
| 5° | 933.2 | 930.7 | 945.7 | 953.1 | 963.1 | 968.1 | 963.1 | 963.1 | 960.6 | 945.7 | 945.7 |
| 7.5° | 863.3 | 865.8 | 878.3 | 895.8 | 908.2 | 915.7 | 910.7 | 908.2 | 900.7 | 878.3 | 878.3 |
| 10° | 810.9 | 810.9 | 830.9 | 845.9 | 863.3 | 870.8 | 865.8 | 858.3 | 850.8 | 828.4 | 825.9 |
| 12.5° | 768.5 | 768.5 | 783.5 | 808.4 | 828.4 | 838.4 | 835.9 | 825.9 | 813.4 | 791.0 | 788.5 |
| 15° | 728.6 | 726.1 | 748.5 | 771.0 | 798.4 | 810.9 | 805.9 | 798.4 | 776.0 | 756.0 | 751.0 |
| 17.5° | 688.7 | 686.2 | 706.1 | 736.1 | 766.0 | 783.5 | 781.0 | 763.5 | 743.6 | 718.6 | 713.6 |
| 20° | 648.7 | 643.7 | 668.7 | 698.6 | 728.6 | 746.0 | 741.1 | 726.1 | 701.1 | 676.2 | 671.2 |
| 22.5° | 608.8 | 606.3 | 623.8 | 648.7 | 676.2 | 691.2 | 688.7 | 676.2 | 651.2 | 628.8 | 628.8 |
| 25° | 563.9 | 563.9 | 576.4 | 593.8 | 613.8 | 621.3 | 623.8 | 618.8 | 603.8 | 591.3 | 591.3 |
| 27.5° | 526.5 | 519.0 | 524.0 | 529.0 | 539.0 | 551.4 | 551.4 | 556.4 | 558.9 | 553.9 | 556.4 |
| 30° | 496.5 | 484.1 | 476.6 | 466.6 | 461.6 | 466.6 | 471.6 | 489.0 | 506.5 | 516.5 | 521.5 |
| 32.5° | 461.6 | 446.6 | 426.7 | 399.2 | 381.8 | 376.8 | 391.7 | 424.2 | 456.6 | 479.1 | 491.5 |
| 35° | 426.7 | 406.7 | 369.3 | 329.4 | 306.9 | 299.4 | 316.9 | 354.3 | 401.7 | 441.6 | 459.1 |
| 37.5° | 391.7 | 364.3 | 311.9 | 264.5 | 239.5 | 234.5 | 252.0 | 291.9 | 346.8 | 401.7 | 424.2 |
| 40° | 351.8 | 319.4 | 257.0 | 207.1 | 187.1 | 182.1 | 197.1 | 237.0 | 294.4 | 356.8 | 391.7 |
| 42.5° | 311.9 | 272.0 | 207.1 | 164.7 | 144.7 | 144.7 | 164.7 | 194.6 | 247.0 | 314.4 | 356.8 |
| 45° | 272.0 | 229.6 | 169.7 | 132.2 | 119.8 | 122.3 | 134.7 | 164.7 | 207.1 | 277.0 | 316.9 |
| 47.5° | 234.5 | 197.1 | 139.7 | 109.8 | 99.8 | 102.3 | 117.3 | 142.2 | 177.2 | 239.5 | 282.0 |
| 50° | 202.1 | 167.2 | 122.3 | 92.3 | 84.8 | 89.8 | 104.8 | 127.3 | 157.2 | 212.1 | 247.0 |
| 52.5° | 182.1 | 149.7 | 112.3 | 79.8 | 74.9 | 79.8 | 94.8 | 114.8 | 142.2 | 187.1 | 222.1 |
| 55° | 172.2 | 147.2 | 112.3 | 72.4 | 64.9 | 69.9 | 84.8 | 104.8 | 127.3 | 169.7 | 199.6 |
| 57.5° | 169.7 | 152.2 | 119.8 | 64.9 | 54.9 | 59.9 | 74.9 | 94.8 | 117.3 | 154.7 | 179.7 |
| 60° | 159.7 | 144.7 | 117.3 | 52.4 | 42.4 | 49.9 | 62.4 | 82.3 | 107.3 | 144.7 | 167.2 |
| 62.5° | 139.7 | 127.3 | 102.3 | 42.4 | 32.4 | 37.4 | 52.4 | 72.4 | 97.3 | 132.2 | 157.2 |
| 65° | 114.8 | 102.3 | 79.8 | 27.4 | 20.0 | 25.0 | 39.9 | 62.4 | 84.8 | 119.8 | 142.2 |
| 67.5° | 84.8 | 72.4 | 54.9 | 17.5 | 10.0 | 17.5 | 32.4 | 52.4 | 77.3 | 107.3 | 129.7 |
| 70° | 52.4 | 42.4 | 29.9 | 10.0 | 7.5 | 15.0 | 29.9 | 49.9 | 69.9 | 99.8 | 122.3 |
| 72.5° | 29.9 | 20.0 | 12.5 | 5.0 | 7.5 | 15.0 | 29.9 | 49.9 | 67.4 | 94.8 | 114.8 |
| 75° | 22.5 | 12.5 | 5.0 | 2.5 | 5.0 | 12.5 | 27.4 | 44.9 | 64.9 | 89.8 | 109.8 |
| 77.5° | 15.0 | 7.5 | 2.5 | 0.0 | 2.5 | 10.0 | 25.0 | 42.4 | 59.9 | 84.8 | 104.8 |
| 80° | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 22.5 | 37.4 | 54.9 | 74.9 | 92.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 17.5 | 32.4 | 47.4 | 62.4 | 74.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 25.0 | 37.4 | 47.4 | 52.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 25.0 | 29.9 | 34.9 |
| 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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CATALOG NUMBER: GWS-SA4F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 |
| 2.5° | 1020.5 | 1035.5 | 1035.5 | 1045.5 | 1057.9 | 1080.4 | 1092.9 | 1110.3 | 1122.8 | 1135.3 | 1140.3 |
| 5° | 943.2 | 945.7 | 948.2 | 953.1 | 968.1 | 993.1 | 1015.5 | 1043.0 | 1075.4 | 1100.4 | 1115.3 |
| 7.5° | 878.3 | 878.3 | 878.3 | 885.8 | 900.7 | 918.2 | 940.7 | 978.1 | 1015.5 | 1045.5 | 1070.4 |
| 10° | 823.4 | 830.9 | 833.4 | 845.9 | 863.3 | 885.8 | 910.7 | 943.2 | 985.6 | 1025.5 | 1070.4 |
| 12.5° | 788.5 | 795.9 | 808.4 | 820.9 | 838.4 | 863.3 | 890.8 | 933.2 | 1020.5 | 1102.9 | 1197.7 |
| 15° | 756.0 | 766.0 | 781.0 | 798.4 | 818.4 | 845.9 | 875.8 | 963.1 | 1167.7 | 1322.4 | 1472.1 |
| 17.5° | 721.1 | 736.1 | 756.0 | 773.5 | 798.4 | 828.4 | 865.8 | 1035.5 | 1437.2 | 1694.2 | 1948.7 |
| 20° | 676.2 | 696.1 | 718.6 | 746.0 | 776.0 | 810.9 | 865.8 | 1185.2 | 1826.4 | 2195.7 | 2532.6 |
| 22.5° | 633.8 | 653.7 | 681.2 | 716.1 | 751.0 | 786.0 | 878.3 | 1412.2 | 2328.0 | 2794.6 | 3221.2 |
| 25° | 598.8 | 623.8 | 651.2 | 681.2 | 721.1 | 761.0 | 908.2 | 1731.6 | 2931.8 | 3533.1 | 3835.0 |
| 27.5° | 566.4 | 596.3 | 623.8 | 648.7 | 683.7 | 728.6 | 975.6 | 2158.3 | 3645.4 | 4256.7 | 4493.7 |
| 30° | 534.0 | 568.9 | 596.3 | 621.3 | 656.2 | 703.6 | 1077.9 | 2702.2 | 4438.9 | 5032.7 | 5057.6 |
| 32.5° | 506.5 | 539.0 | 571.4 | 596.3 | 628.8 | 683.7 | 1220.1 | 3338.5 | 5252.3 | 5826.1 | 5591.6 |
| 35° | 476.6 | 514.0 | 543.9 | 571.4 | 606.3 | 666.2 | 1384.8 | 4024.7 | 6073.2 | 6554.7 | 6123.1 |
| 37.5° | 446.6 | 489.0 | 526.5 | 546.4 | 581.4 | 648.7 | 1504.6 | 4740.8 | 6911.5 | 7265.8 | 6589.7 |
| 40° | 419.2 | 466.6 | 509.0 | 529.0 | 546.4 | 626.3 | 1522.0 | 5474.3 | 7762.4 | 7967.0 | 7028.8 |
| 42.5° | 389.2 | 441.6 | 479.1 | 506.5 | 521.5 | 611.3 | 1417.2 | 6093.1 | 8476.0 | 8665.6 | 7602.7 |
| 45° | 356.8 | 419.2 | 449.1 | 469.1 | 499.0 | 621.3 | 1282.5 | 6572.2 | 9291.9 | 9618.8 | 8548.3 |
| 47.5° | 324.4 | 394.2 | 419.2 | 434.2 | 474.1 | 681.2 | 1232.6 | 6891.6 | 10636.8 | 11315.5 | 10142.7 |
| 50° | 294.4 | 371.8 | 399.2 | 396.7 | 469.1 | 758.5 | 1287.5 | 7133.6 | 12657.8 | 13456.3 | 12328.5 |
| 52.5° | 262.0 | 346.8 | 379.3 | 369.3 | 506.5 | 818.4 | 1397.3 | 7325.7 | 14212.3 | 15966.4 | 15265.3 |
| 55° | 234.5 | 319.4 | 349.3 | 346.8 | 576.4 | 863.3 | 1482.1 | 6312.7 | 14856.1 | 18299.3 | 18573.8 |
| 57.5° | 214.6 | 289.4 | 314.4 | 356.8 | 621.3 | 863.3 | 1714.2 | 4481.3 | 14868.5 | 20016.0 | 22965.3 |
| 60° | 197.1 | 262.0 | 279.5 | 391.7 | 603.8 | 818.4 | 1696.7 | 2744.7 | 13703.3 | 19898.7 | 25300.7 |
| 62.5° | 182.1 | 237.0 | 259.5 | 401.7 | 534.0 | 810.9 | 1532.0 | 1701.7 | 11687.2 | 18384.2 | 23606.5 |
| 65° | 169.7 | 217.1 | 249.5 | 369.3 | 484.1 | 868.3 | 1033.0 | 1222.6 | 9479.0 | 16657.5 | 21662.8 |
| 67.5° | 157.2 | 199.6 | 264.5 | 301.9 | 439.1 | 776.0 | 746.0 | 868.3 | 7440.5 | 14763.7 | 19878.8 |
| 70° | 147.2 | 189.6 | 279.5 | 247.0 | 384.3 | 606.3 | 529.0 | 658.7 | 5696.4 | 12318.5 | 17366.2 |
| 72.5° | 139.7 | 177.2 | 234.5 | 194.6 | 311.9 | 469.1 | 369.3 | 479.1 | 3722.7 | 9616.3 | 14157.4 |
| 75° | 132.2 | 162.2 | 172.2 | 157.2 | 232.0 | 306.9 | 279.5 | 321.9 | 2218.2 | 7028.8 | 10741.6 |
| 77.5° | 129.7 | 152.2 | 139.7 | 127.3 | 157.2 | 182.1 | 212.1 | 217.1 | 1082.9 | 3515.7 | 5629.0 |
| 80° | 114.8 | 137.2 | 119.8 | 104.8 | 107.3 | 119.8 | 157.2 | 144.7 | 247.0 | 893.3 | 1502.1 |
| 82.5° | 89.8 | 107.3 | 99.8 | 87.3 | 87.3 | 87.3 | 104.8 | 97.3 | 79.8 | 401.7 | 678.7 |
| 85° | 62.4 | 74.9 | 74.9 | 69.9 | 67.4 | 67.4 | 64.9 | 62.4 | 22.5 | 25.0 | 37.4 |
| 87.5° | 42.4 | 52.4 | 54.9 | 52.4 | 44.9 | 39.9 | 34.9 | 29.9 | 10.0 | 0.0 | 5.0 |
| 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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| 0° | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 | 1092.9 |
| 2.5° | 1157.7 | 1165.2 | 1165.2 | 1155.2 | 1147.8 | 1127.8 | 1107.8 | 1087.9 | 1082.9 | 1080.4 |
| 5° | 1157.7 | 1187.7 | 1202.7 | 1200.2 | 1182.7 | 1150.3 | 1107.8 | 1062.9 | 1050.5 | 1045.5 |
| 7.5° | 1140.3 | 1197.7 | 1242.6 | 1250.1 | 1217.6 | 1160.2 | 1082.9 | 1015.5 | 998.1 | 990.6 |
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| 15° | 1828.9 | 2090.9 | 2300.5 | 2300.5 | 2233.1 | 1981.1 | 1719.2 | 1387.3 | 1302.5 | 1227.6 |
| 17.5° | 2385.4 | 2714.7 | 2899.4 | 2879.4 | 2777.1 | 2599.9 | 2285.5 | 1809.0 | 1636.8 | 1559.5 |
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| 22.5° | 3568.0 | 3515.7 | 3453.3 | 3403.4 | 3390.9 | 3420.8 | 3390.9 | 2996.7 | 2814.5 | 2602.4 |
| 25° | 3939.8 | 3642.9 | 3455.8 | 3365.9 | 3408.4 | 3580.5 | 3767.7 | 3620.4 | 3475.7 | 3256.2 |
| 27.5° | 4141.9 | 3627.9 | 3358.5 | 3266.1 | 3338.5 | 3583.0 | 3989.7 | 4239.2 | 4089.5 | 3984.7 |
| 30° | 4251.7 | 3615.5 | 3296.1 | 3206.3 | 3316.0 | 3622.9 | 4144.4 | 4818.1 | 4823.1 | 4655.9 |
| 32.5° | 4408.9 | 3695.3 | 3308.6 | 3226.2 | 3373.4 | 3742.7 | 4339.0 | 5407.0 | 5551.7 | 5461.9 |
| 35° | 4586.1 | 3817.6 | 3365.9 | 3291.1 | 3473.2 | 3902.4 | 4556.1 | 6000.8 | 6302.7 | 6272.8 |
| 37.5° | 4753.2 | 3954.8 | 3500.7 | 3428.3 | 3625.4 | 4039.6 | 4765.7 | 6584.7 | 7003.9 | 7108.7 |
| 40° | 4927.9 | 4146.9 | 3914.9 | 3984.7 | 4094.5 | 4256.7 | 4952.9 | 7091.2 | 7774.9 | 7932.0 |
| 42.5° | 5339.6 | 4813.1 | 5167.4 | 5299.7 | 5314.6 | 4980.3 | 5362.1 | 7739.9 | 8533.4 | 8720.5 |
| 45° | 6257.8 | 5998.3 | 7013.8 | 7201.0 | 7103.7 | 6090.6 | 6347.6 | 8675.6 | 9593.8 | 9688.6 |
| 47.5° | 7418.0 | 7537.8 | 9541.4 | 10187.7 | 9603.8 | 7400.6 | 7542.8 | 10644.3 | 11535.0 | 11500.1 |
| 50° | 8770.4 | 9336.8 | 12410.8 | 13935.4 | 12538.1 | 9102.3 | 8920.1 | 13064.5 | 14144.9 | 14037.7 |
| 52.5° | 10369.8 | 11427.7 | 15859.1 | 18024.9 | 16702.5 | 11016.0 | 10941.2 | 16270.8 | 16929.5 | 16587.7 |
| 55° | 12383.4 | 13446.3 | 19826.4 | 22853.0 | 20971.6 | 13351.5 | 13608.5 | 19988.6 | 20115.8 | 19030.4 |
| 57.5° | 15387.5 | 16078.7 | 24502.3 | 28389.7 | 25428.0 | 16525.3 | 18389.2 | 24936.4 | 23414.4 | 21358.4 |
| 60° | 20841.9 | 19464.6 | 29021.0 | 34053.7 | 30168.7 | 20989.1 | 24694.4 | 27868.2 | 24512.2 | 21677.8 |
| 62.5° | 22740.7 | 22339.0 | 31850.4 | 36449.0 | 33357.5 | 24654.5 | 26333.7 | 26206.4 | 23090.0 | 20470.1 |
| 65° | 19863.8 | 21622.9 | 31343.9 | 35184.0 | 32948.3 | 24050.6 | 23631.5 | 24372.5 | 21488.1 | 18636.2 |
| 67.5° | 18349.3 | 19941.2 | 29425.2 | 31693.3 | 30680.2 | 22002.1 | 21064.0 | 20861.9 | 18039.9 | 15769.3 |
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| 75° | 13069.5 | 12817.5 | 17762.9 | 14718.8 | 15118.0 | 11405.3 | 12161.3 | 8890.2 | 7405.6 | 6055.7 |
| 77.5° | 9506.5 | 9319.3 | 11896.8 | 8940.1 | 9900.7 | 7470.4 | 6711.9 | 3548.1 | 3378.4 | 2914.3 |
| 80° | 5304.7 | 6395.0 | 6425.0 | 5010.2 | 6250.3 | 4870.5 | 1679.2 | 117.3 | 74.9 | 109.8 |
| 82.5° | 2465.2 | 2749.6 | 3483.2 | 2323.0 | 3565.6 | 2412.8 | 346.8 | 0.0 | 0.0 | 0.0 |
| 85° | 798.4 | 1167.7 | 978.1 | 341.8 | 863.3 | 815.9 | 57.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 47.4 | 97.3 | 25.0 | 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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