

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: P638756

Luminaire Tested: GWS-SA4F-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638756
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20600.8 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

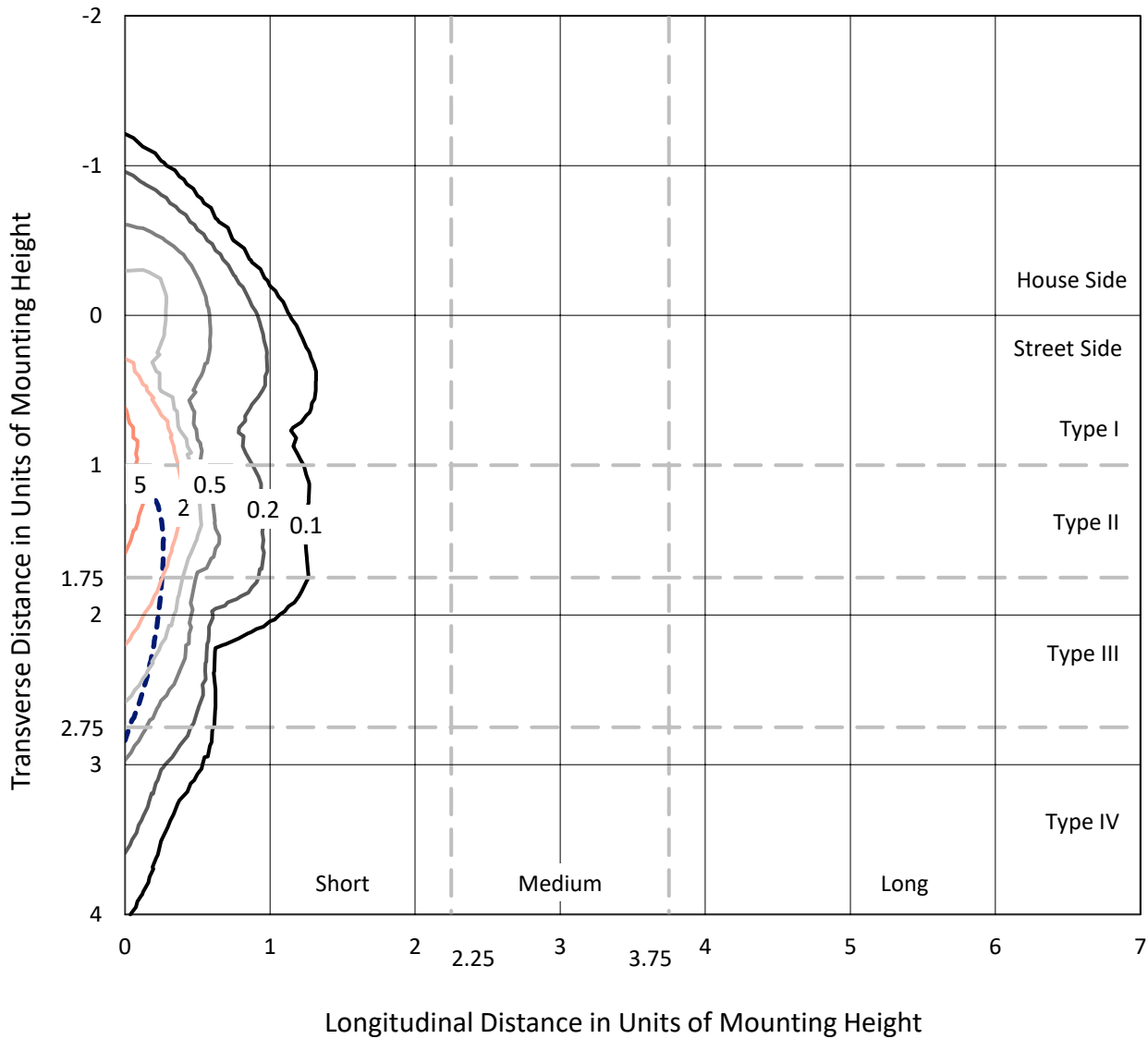
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

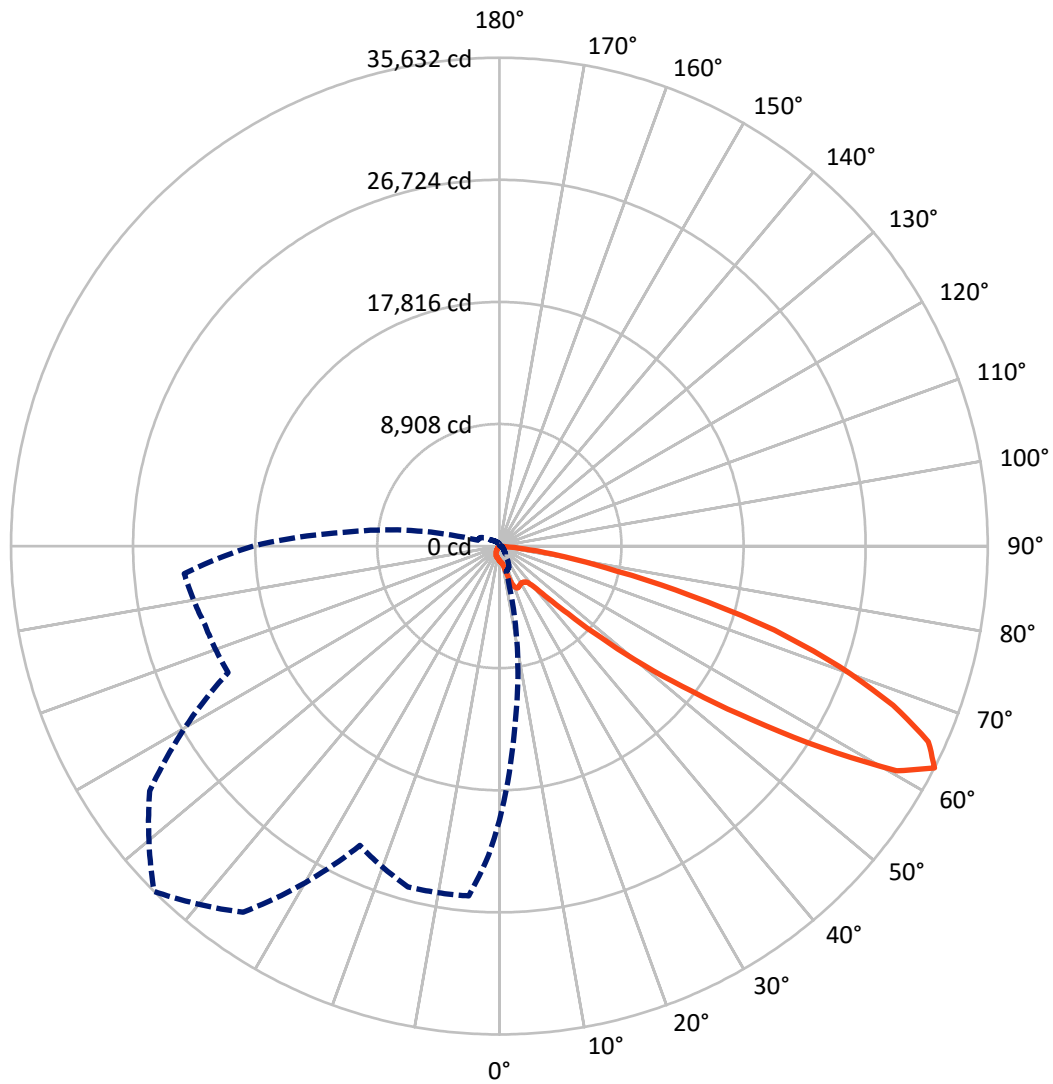
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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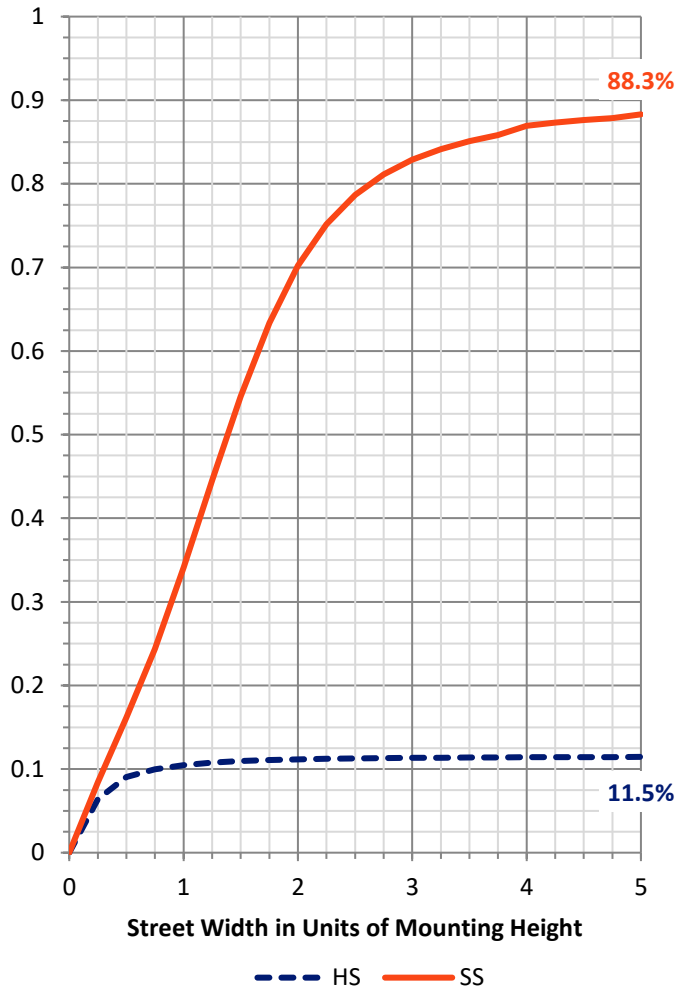
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2393.6 | 0.0 | 2393.6 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 18207.2 | 0.0 | 18207.2 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 20600.8 | 0.0 | 20600.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 92.3 | 0.4 |
| 10°-20° | 316.2 | 1.5 |
| 20°-30° | 714.4 | 3.5 |
| 30°-40° | 1230.7 | 6.0 |
| 40°-50° | 2321.5 | 11.3 |
| 50°-60° | 5183.3 | 25.2 |
| 60°-70° | 6932.6 | 33.7 |
| 70°-80° | 3476.5 | 16.9 |
| 80°-90° | 333.2 | 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° | 20600.8 | 100.0 |
| 0°-180° | 20600.8 | 100.0 |

Coefficient of Utilization



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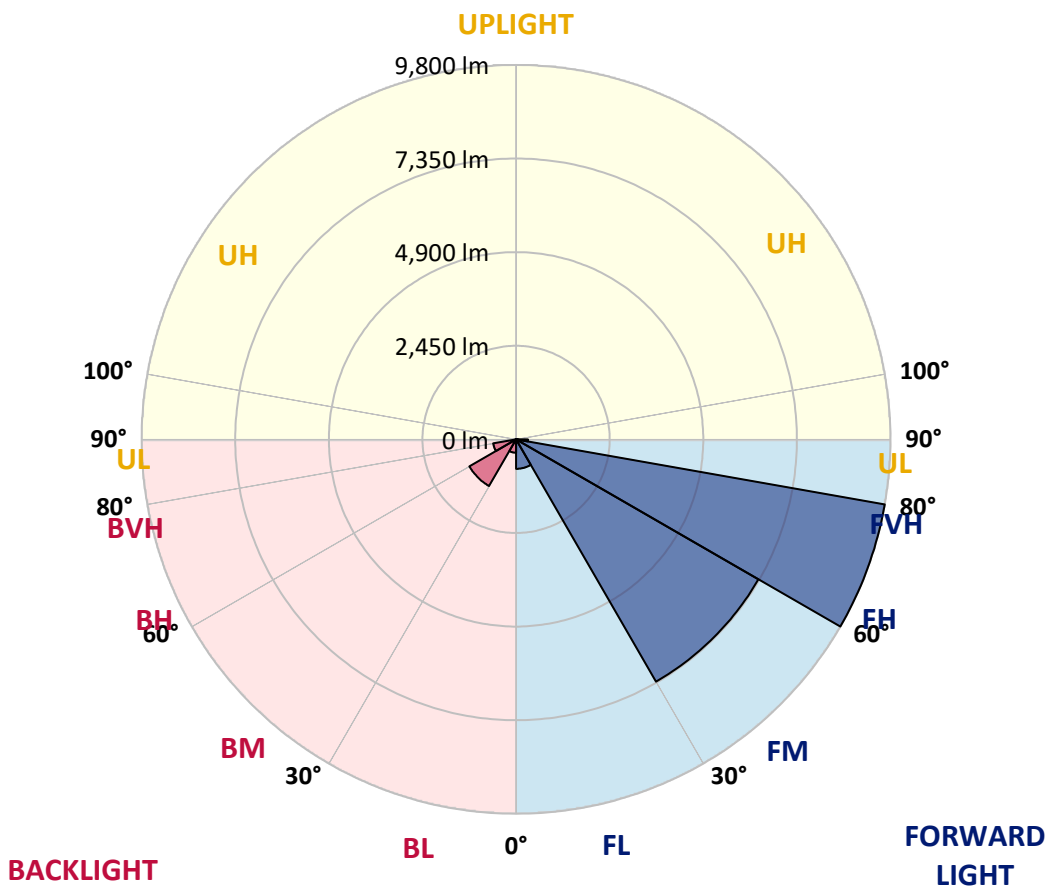
CATALOG NUMBER: GWS-SA4F-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 771.5 | 3.7 | | | |
| FM (30°-60°) | 7324.2 | 35.6 | | | |
| FH (60°-80°) | 9800.5 | 47.6 | | | G4/12000 |
| FVH (80°-90°) | 311.1 | 1.5 | | | G3/500 |
| BL (0°-30°) | 351.3 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1411.4 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 608.7 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 22.2 | 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-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 |
| 2.5° | 1056.2 | 1053.8 | 1048.9 | 1034.2 | 1022.0 | 1014.7 | 1000.1 | 1000.1 | 997.6 | 992.8 | 983.0 |
| 5° | 1022.0 | 1012.3 | 1002.5 | 975.7 | 946.4 | 929.4 | 909.8 | 907.4 | 907.4 | 902.5 | 900.1 |
| 7.5° | 968.4 | 958.6 | 946.4 | 902.5 | 875.7 | 858.6 | 841.5 | 839.1 | 831.8 | 831.8 | 831.8 |
| 10° | 939.1 | 924.5 | 905.0 | 856.2 | 829.3 | 814.7 | 802.5 | 795.2 | 790.3 | 783.0 | 780.6 |
| 12.5° | 1002.5 | 975.7 | 934.2 | 846.4 | 809.8 | 790.3 | 775.7 | 770.8 | 756.2 | 746.4 | 739.1 |
| 15° | 1200.1 | 1134.2 | 1051.3 | 868.4 | 802.5 | 773.2 | 753.7 | 744.0 | 731.8 | 714.7 | 702.5 |
| 17.5° | 1524.5 | 1429.4 | 1290.4 | 939.1 | 795.2 | 758.6 | 734.2 | 717.1 | 700.1 | 680.5 | 665.9 |
| 20° | 1973.3 | 1831.9 | 1666.0 | 1068.4 | 795.2 | 741.5 | 712.3 | 690.3 | 665.9 | 644.0 | 626.9 |
| 22.5° | 2544.1 | 2402.7 | 2119.7 | 1287.9 | 804.9 | 719.6 | 685.4 | 656.2 | 626.9 | 607.4 | 587.9 |
| 25° | 3183.2 | 2983.2 | 2719.8 | 1553.8 | 831.8 | 690.3 | 653.7 | 624.4 | 597.6 | 573.2 | 551.3 |
| 27.5° | 3895.5 | 3678.4 | 3327.1 | 1931.9 | 890.3 | 661.0 | 619.6 | 592.7 | 568.3 | 544.0 | 514.7 |
| 30° | 4551.6 | 4422.3 | 4063.8 | 2385.6 | 985.5 | 641.5 | 592.7 | 568.3 | 544.0 | 512.2 | 485.4 |
| 32.5° | 5339.5 | 5110.2 | 4815.1 | 2902.7 | 1112.3 | 622.0 | 570.8 | 536.6 | 517.1 | 487.8 | 458.6 |
| 35° | 6132.2 | 5937.1 | 5549.3 | 3539.3 | 1253.8 | 602.5 | 544.0 | 512.2 | 495.2 | 461.0 | 429.3 |
| 37.5° | 6949.4 | 6905.5 | 6522.5 | 4244.3 | 1392.8 | 580.5 | 512.2 | 492.7 | 475.7 | 436.6 | 400.0 |
| 40° | 7754.3 | 7673.8 | 7320.2 | 5049.2 | 1478.2 | 556.1 | 485.4 | 473.2 | 453.7 | 409.8 | 368.3 |
| 42.5° | 8525.1 | 8464.2 | 8120.2 | 5820.0 | 1466.0 | 534.2 | 458.6 | 443.9 | 429.3 | 385.4 | 334.2 |
| 45° | 9471.6 | 9371.6 | 8937.4 | 6390.8 | 1341.6 | 558.6 | 431.7 | 407.4 | 404.9 | 363.4 | 300.0 |
| 47.5° | 11242.5 | 10913.2 | 10176.5 | 6829.9 | 1217.2 | 622.0 | 402.5 | 373.2 | 390.3 | 341.5 | 265.9 |
| 50° | 13723.2 | 13335.3 | 12269.4 | 7171.4 | 1214.7 | 704.9 | 397.6 | 341.5 | 378.1 | 324.4 | 236.6 |
| 52.5° | 16216.1 | 15533.1 | 14237.8 | 7354.3 | 1305.0 | 765.9 | 441.5 | 309.8 | 363.4 | 307.3 | 214.7 |
| 55° | 18604.1 | 17186.9 | 15062.3 | 6749.4 | 1375.7 | 831.8 | 522.0 | 292.7 | 336.6 | 287.8 | 202.5 |
| 57.5° | 20879.9 | 18516.3 | 15420.9 | 5339.5 | 1612.3 | 858.6 | 570.8 | 300.0 | 297.6 | 263.4 | 192.7 |
| 60° | 21192.1 | 18452.9 | 14696.4 | 3105.2 | 1778.2 | 812.3 | 551.3 | 334.2 | 261.0 | 234.2 | 175.6 |
| 62.5° | 20011.5 | 17225.9 | 13045.1 | 1936.8 | 1651.4 | 795.2 | 490.3 | 380.5 | 236.6 | 207.3 | 153.7 |
| 65° | 18218.7 | 15301.4 | 10876.6 | 1248.9 | 1251.3 | 883.0 | 429.3 | 373.2 | 222.0 | 182.9 | 131.7 |
| 67.5° | 15416.0 | 12806.0 | 8569.0 | 836.7 | 707.4 | 753.7 | 375.6 | 256.1 | 217.1 | 156.1 | 102.4 |
| 70° | 11252.2 | 9115.4 | 5578.5 | 558.6 | 422.0 | 602.5 | 314.7 | 182.9 | 204.9 | 129.3 | 73.2 |
| 72.5° | 8225.1 | 6124.9 | 3114.9 | 365.9 | 239.0 | 351.3 | 231.7 | 131.7 | 158.6 | 95.1 | 51.2 |
| 75° | 5920.0 | 4215.0 | 1778.2 | 234.2 | 158.6 | 192.7 | 151.2 | 90.3 | 102.4 | 75.6 | 46.3 |
| 77.5° | 2849.0 | 2053.8 | 807.4 | 129.3 | 107.3 | 97.6 | 80.5 | 56.1 | 63.4 | 68.3 | 41.5 |
| 80° | 107.3 | 80.5 | 61.0 | 63.4 | 68.3 | 43.9 | 36.6 | 29.3 | 36.6 | 46.3 | 22.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 7.3 | 9.8 | 12.2 | 14.6 | 12.2 | 14.6 | 17.1 | 2.4 |
| 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-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 |
| 2.5° | 990.3 | 985.5 | 990.3 | 995.2 | 1000.1 | 1005.0 | 997.6 | 1002.5 | 1007.4 | 995.2 | 1000.1 |
| 5° | 912.3 | 909.8 | 924.5 | 931.8 | 941.5 | 946.4 | 941.5 | 941.5 | 939.1 | 924.5 | 924.5 |
| 7.5° | 844.0 | 846.4 | 858.6 | 875.7 | 887.9 | 895.2 | 890.3 | 887.9 | 880.6 | 858.6 | 858.6 |
| 10° | 792.8 | 792.8 | 812.3 | 826.9 | 844.0 | 851.3 | 846.4 | 839.1 | 831.8 | 809.8 | 807.4 |
| 12.5° | 751.3 | 751.3 | 765.9 | 790.3 | 809.8 | 819.6 | 817.1 | 807.4 | 795.2 | 773.2 | 770.8 |
| 15° | 712.3 | 709.8 | 731.8 | 753.7 | 780.6 | 792.8 | 787.9 | 780.6 | 758.6 | 739.1 | 734.2 |
| 17.5° | 673.2 | 670.8 | 690.3 | 719.6 | 748.8 | 765.9 | 763.5 | 746.4 | 726.9 | 702.5 | 697.6 |
| 20° | 634.2 | 629.3 | 653.7 | 683.0 | 712.3 | 729.3 | 724.5 | 709.8 | 685.4 | 661.0 | 656.2 |
| 22.5° | 595.2 | 592.7 | 609.8 | 634.2 | 661.0 | 675.7 | 673.2 | 661.0 | 636.6 | 614.7 | 614.7 |
| 25° | 551.3 | 551.3 | 563.5 | 580.5 | 600.1 | 607.4 | 609.8 | 604.9 | 590.3 | 578.1 | 578.1 |
| 27.5° | 514.7 | 507.4 | 512.2 | 517.1 | 526.9 | 539.1 | 539.1 | 544.0 | 546.4 | 541.5 | 544.0 |
| 30° | 485.4 | 473.2 | 465.9 | 456.1 | 451.3 | 456.1 | 461.0 | 478.1 | 495.2 | 504.9 | 509.8 |
| 32.5° | 451.3 | 436.6 | 417.1 | 390.3 | 373.2 | 368.3 | 383.0 | 414.7 | 446.4 | 468.3 | 480.5 |
| 35° | 417.1 | 397.6 | 361.0 | 322.0 | 300.0 | 292.7 | 309.8 | 346.4 | 392.7 | 431.7 | 448.8 |
| 37.5° | 383.0 | 356.1 | 304.9 | 258.6 | 234.2 | 229.3 | 246.4 | 285.4 | 339.1 | 392.7 | 414.7 |
| 40° | 343.9 | 312.2 | 251.2 | 202.5 | 182.9 | 178.1 | 192.7 | 231.7 | 287.8 | 348.8 | 383.0 |
| 42.5° | 304.9 | 265.9 | 202.5 | 161.0 | 141.5 | 141.5 | 161.0 | 190.3 | 241.5 | 307.3 | 348.8 |
| 45° | 265.9 | 224.4 | 165.9 | 129.3 | 117.1 | 119.5 | 131.7 | 161.0 | 202.5 | 270.8 | 309.8 |
| 47.5° | 229.3 | 192.7 | 136.6 | 107.3 | 97.6 | 100.0 | 114.6 | 139.0 | 173.2 | 234.2 | 275.6 |
| 50° | 197.6 | 163.4 | 119.5 | 90.3 | 82.9 | 87.8 | 102.4 | 124.4 | 153.7 | 207.3 | 241.5 |
| 52.5° | 178.1 | 146.4 | 109.8 | 78.1 | 73.2 | 78.1 | 92.7 | 112.2 | 139.0 | 182.9 | 217.1 |
| 55° | 168.3 | 143.9 | 109.8 | 70.7 | 63.4 | 68.3 | 82.9 | 102.4 | 124.4 | 165.9 | 195.1 |
| 57.5° | 165.9 | 148.8 | 117.1 | 63.4 | 53.7 | 58.5 | 73.2 | 92.7 | 114.6 | 151.2 | 175.6 |
| 60° | 156.1 | 141.5 | 114.6 | 51.2 | 41.5 | 48.8 | 61.0 | 80.5 | 104.9 | 141.5 | 163.4 |
| 62.5° | 136.6 | 124.4 | 100.0 | 41.5 | 31.7 | 36.6 | 51.2 | 70.7 | 95.1 | 129.3 | 153.7 |
| 65° | 112.2 | 100.0 | 78.1 | 26.8 | 19.5 | 24.4 | 39.0 | 61.0 | 82.9 | 117.1 | 139.0 |
| 67.5° | 82.9 | 70.7 | 53.7 | 17.1 | 9.8 | 17.1 | 31.7 | 51.2 | 75.6 | 104.9 | 126.8 |
| 70° | 51.2 | 41.5 | 29.3 | 9.8 | 7.3 | 14.6 | 29.3 | 48.8 | 68.3 | 97.6 | 119.5 |
| 72.5° | 29.3 | 19.5 | 12.2 | 4.9 | 7.3 | 14.6 | 29.3 | 48.8 | 65.9 | 92.7 | 112.2 |
| 75° | 22.0 | 12.2 | 4.9 | 2.4 | 4.9 | 12.2 | 26.8 | 43.9 | 63.4 | 87.8 | 107.3 |
| 77.5° | 14.6 | 7.3 | 2.4 | 0.0 | 2.4 | 9.8 | 24.4 | 41.5 | 58.5 | 82.9 | 102.4 |
| 80° | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 22.0 | 36.6 | 53.7 | 73.2 | 90.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 17.1 | 31.7 | 46.3 | 61.0 | 73.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 | 24.4 | 36.6 | 46.3 | 51.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 24.4 | 29.3 | 34.1 |
| 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-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 |
| 2.5° | 997.6 | 1012.3 | 1012.3 | 1022.0 | 1034.2 | 1056.2 | 1068.4 | 1085.5 | 1097.7 | 1109.9 | 1114.7 |
| 5° | 922.0 | 924.5 | 926.9 | 931.8 | 946.4 | 970.8 | 992.8 | 1019.6 | 1051.3 | 1075.7 | 1090.3 |
| 7.5° | 858.6 | 858.6 | 858.6 | 865.9 | 880.6 | 897.6 | 919.6 | 956.2 | 992.8 | 1022.0 | 1046.4 |
| 10° | 804.9 | 812.3 | 814.7 | 826.9 | 844.0 | 865.9 | 890.3 | 922.0 | 963.5 | 1002.5 | 1046.4 |
| 12.5° | 770.8 | 778.1 | 790.3 | 802.5 | 819.6 | 844.0 | 870.8 | 912.3 | 997.6 | 1078.1 | 1170.8 |
| 15° | 739.1 | 748.8 | 763.5 | 780.6 | 800.1 | 826.9 | 856.2 | 941.5 | 1141.6 | 1292.8 | 1439.2 |
| 17.5° | 704.9 | 719.6 | 739.1 | 756.2 | 780.6 | 809.8 | 846.4 | 1012.3 | 1405.0 | 1656.2 | 1905.0 |
| 20° | 661.0 | 680.5 | 702.5 | 729.3 | 758.6 | 792.8 | 846.4 | 1158.6 | 1785.5 | 2146.5 | 2475.8 |
| 22.5° | 619.6 | 639.1 | 665.9 | 700.1 | 734.2 | 768.4 | 858.6 | 1380.6 | 2275.8 | 2731.9 | 3149.1 |
| 25° | 585.4 | 609.8 | 636.6 | 665.9 | 704.9 | 744.0 | 887.9 | 1692.8 | 2866.1 | 3454.0 | 3749.1 |
| 27.5° | 553.7 | 583.0 | 609.8 | 634.2 | 668.4 | 712.3 | 953.7 | 2109.9 | 3563.7 | 4161.3 | 4393.1 |
| 30° | 522.0 | 556.1 | 583.0 | 607.4 | 641.5 | 687.9 | 1053.8 | 2641.7 | 4339.4 | 4919.9 | 4944.3 |
| 32.5° | 495.2 | 526.9 | 558.6 | 583.0 | 614.7 | 668.4 | 1192.8 | 3263.7 | 5134.6 | 5695.6 | 5466.3 |
| 35° | 465.9 | 502.5 | 531.8 | 558.6 | 592.7 | 651.3 | 1353.8 | 3934.5 | 5937.1 | 6407.9 | 5985.9 |
| 37.5° | 436.6 | 478.1 | 514.7 | 534.2 | 568.3 | 634.2 | 1470.9 | 4634.6 | 6756.7 | 7103.1 | 6442.0 |
| 40° | 409.8 | 456.1 | 497.6 | 517.1 | 534.2 | 612.2 | 1487.9 | 5351.7 | 7588.5 | 7788.5 | 6871.3 |
| 42.5° | 380.5 | 431.7 | 468.3 | 495.2 | 509.8 | 597.6 | 1385.5 | 5956.6 | 8286.1 | 8471.5 | 7432.4 |
| 45° | 348.8 | 409.8 | 439.1 | 458.6 | 487.8 | 607.4 | 1253.8 | 6425.0 | 9083.7 | 9403.3 | 8356.8 |
| 47.5° | 317.1 | 385.4 | 409.8 | 424.4 | 463.5 | 665.9 | 1205.0 | 6737.2 | 10398.5 | 11062.0 | 9915.5 |
| 50° | 287.8 | 363.4 | 390.3 | 387.8 | 458.6 | 741.5 | 1258.6 | 6973.8 | 12374.3 | 13154.8 | 12052.3 |
| 52.5° | 256.1 | 339.1 | 370.8 | 361.0 | 495.2 | 800.1 | 1366.0 | 7161.6 | 13893.9 | 15608.7 | 14923.3 |
| 55° | 229.3 | 312.2 | 341.5 | 339.1 | 563.5 | 844.0 | 1448.9 | 6171.3 | 14523.2 | 17889.4 | 18157.7 |
| 57.5° | 209.8 | 283.0 | 307.3 | 348.8 | 607.4 | 844.0 | 1675.8 | 4380.9 | 14535.4 | 19567.6 | 22450.8 |
| 60° | 192.7 | 256.1 | 273.2 | 383.0 | 590.3 | 800.1 | 1658.7 | 2683.2 | 13396.3 | 19452.9 | 24733.9 |
| 62.5° | 178.1 | 231.7 | 253.7 | 392.7 | 522.0 | 792.8 | 1497.7 | 1663.6 | 11425.4 | 17972.3 | 23077.6 |
| 65° | 165.9 | 212.2 | 243.9 | 361.0 | 473.2 | 848.9 | 1009.8 | 1195.2 | 9266.7 | 16284.4 | 21177.5 |
| 67.5° | 153.7 | 195.1 | 258.6 | 295.1 | 429.3 | 758.6 | 729.3 | 848.9 | 7273.8 | 14433.0 | 19433.4 |
| 70° | 143.9 | 185.4 | 273.2 | 241.5 | 375.6 | 592.7 | 517.1 | 644.0 | 5568.8 | 12042.5 | 16977.1 |
| 72.5° | 136.6 | 173.2 | 229.3 | 190.3 | 304.9 | 458.6 | 361.0 | 468.3 | 3639.3 | 9400.8 | 13840.2 |
| 75° | 129.3 | 158.6 | 168.3 | 153.7 | 226.8 | 300.0 | 273.2 | 314.7 | 2168.5 | 6871.3 | 10500.9 |
| 77.5° | 126.8 | 148.8 | 136.6 | 124.4 | 153.7 | 178.1 | 207.3 | 212.2 | 1058.6 | 3436.9 | 5502.9 |
| 80° | 112.2 | 134.2 | 117.1 | 102.4 | 104.9 | 117.1 | 153.7 | 141.5 | 241.5 | 873.2 | 1468.4 |
| 82.5° | 87.8 | 104.9 | 97.6 | 85.4 | 85.4 | 85.4 | 102.4 | 95.1 | 78.1 | 392.7 | 663.5 |
| 85° | 61.0 | 73.2 | 73.2 | 68.3 | 65.9 | 65.9 | 63.4 | 61.0 | 22.0 | 24.4 | 36.6 |
| 87.5° | 41.5 | 51.2 | 53.7 | 51.2 | 43.9 | 39.0 | 34.1 | 29.3 | 9.8 | 0.0 | 4.9 |
| 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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| 0° | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 | 1068.4 |
| 2.5° | 1131.8 | 1139.1 | 1139.1 | 1129.4 | 1122.1 | 1102.5 | 1083.0 | 1063.5 | 1058.6 | 1056.2 |
| 5° | 1131.8 | 1161.1 | 1175.7 | 1173.3 | 1156.2 | 1124.5 | 1083.0 | 1039.1 | 1026.9 | 1022.0 |
| 7.5° | 1114.7 | 1170.8 | 1214.7 | 1222.1 | 1190.3 | 1134.2 | 1058.6 | 992.8 | 975.7 | 968.4 |
| 10° | 1153.8 | 1263.5 | 1351.3 | 1363.5 | 1326.9 | 1217.2 | 1095.2 | 983.0 | 956.2 | 939.1 |
| 12.5° | 1363.5 | 1544.0 | 1651.4 | 1702.6 | 1631.9 | 1492.8 | 1290.4 | 1090.3 | 1029.4 | 1002.5 |
| 15° | 1788.0 | 2044.1 | 2249.0 | 2249.0 | 2183.1 | 1936.8 | 1680.6 | 1356.2 | 1273.3 | 1200.1 |
| 17.5° | 2331.9 | 2653.9 | 2834.4 | 2814.9 | 2714.9 | 2541.7 | 2234.3 | 1768.4 | 1600.1 | 1524.5 |
| 20° | 2951.5 | 3144.2 | 3185.6 | 3173.5 | 3129.5 | 3029.5 | 2817.3 | 2317.3 | 2090.4 | 1973.3 |
| 22.5° | 3488.1 | 3436.9 | 3375.9 | 3327.1 | 3314.9 | 3344.2 | 3314.9 | 2929.5 | 2751.5 | 2544.1 |
| 25° | 3851.6 | 3561.3 | 3378.3 | 3290.5 | 3332.0 | 3500.3 | 3683.3 | 3539.3 | 3397.9 | 3183.2 |
| 27.5° | 4049.1 | 3546.7 | 3283.2 | 3193.0 | 3263.7 | 3502.7 | 3900.3 | 4144.3 | 3997.9 | 3895.5 |
| 30° | 4156.5 | 3534.5 | 3222.2 | 3134.4 | 3241.7 | 3541.8 | 4051.6 | 4710.2 | 4715.1 | 4551.6 |
| 32.5° | 4310.1 | 3612.5 | 3234.4 | 3153.9 | 3297.9 | 3658.9 | 4241.8 | 5285.8 | 5427.3 | 5339.5 |
| 35° | 4483.3 | 3732.0 | 3290.5 | 3217.4 | 3395.4 | 3815.0 | 4454.1 | 5866.4 | 6161.5 | 6132.2 |
| 37.5° | 4646.8 | 3866.2 | 3422.3 | 3351.5 | 3544.2 | 3949.1 | 4658.9 | 6437.2 | 6846.9 | 6949.4 |
| 40° | 4817.5 | 4054.0 | 3827.2 | 3895.5 | 4002.8 | 4161.3 | 4841.9 | 6932.3 | 7600.7 | 7754.3 |
| 42.5° | 5220.0 | 4705.3 | 5051.7 | 5180.9 | 5195.6 | 4868.7 | 5241.9 | 7566.5 | 8342.2 | 8525.1 |
| 45° | 6117.6 | 5863.9 | 6856.7 | 7039.6 | 6944.5 | 5954.2 | 6205.4 | 8481.2 | 9378.9 | 9471.6 |
| 47.5° | 7251.9 | 7368.9 | 9327.7 | 9959.4 | 9388.6 | 7234.8 | 7373.8 | 10405.8 | 11276.6 | 11242.5 |
| 50° | 8573.9 | 9127.6 | 12132.8 | 13623.2 | 12257.2 | 8898.3 | 8720.3 | 12771.9 | 13828.1 | 13723.2 |
| 52.5° | 10137.5 | 11171.7 | 15503.8 | 17621.1 | 16328.3 | 10769.2 | 10696.1 | 15906.3 | 16550.2 | 16216.1 |
| 55° | 12105.9 | 13145.1 | 19382.2 | 22341.0 | 20501.8 | 13052.4 | 13303.6 | 19540.8 | 19665.2 | 18604.1 |
| 57.5° | 15042.8 | 15718.5 | 23953.3 | 27753.7 | 24858.3 | 16155.1 | 17977.2 | 24377.8 | 22889.8 | 20879.9 |
| 60° | 20375.0 | 19028.5 | 28370.8 | 33290.7 | 29492.8 | 20518.9 | 24141.2 | 27243.9 | 23963.1 | 21192.1 |
| 62.5° | 22231.2 | 21838.5 | 31136.9 | 35632.4 | 32610.2 | 24102.1 | 25743.7 | 25619.3 | 22572.7 | 20011.5 |
| 65° | 19418.8 | 21138.5 | 30641.7 | 34395.7 | 32210.2 | 23511.8 | 23102.0 | 23826.5 | 21006.7 | 18218.7 |
| 67.5° | 17938.2 | 19494.4 | 28766.0 | 30983.2 | 29992.9 | 21509.2 | 20592.1 | 20394.5 | 17635.7 | 15416.0 |
| 70° | 16445.4 | 17987.0 | 26046.2 | 26321.8 | 25860.8 | 18245.5 | 17040.5 | 15716.0 | 13181.7 | 11252.2 |
| 72.5° | 14650.1 | 15498.9 | 22272.7 | 20965.3 | 20443.3 | 14330.5 | 14076.9 | 11835.2 | 9881.4 | 8225.1 |
| 75° | 12776.7 | 12530.4 | 17364.9 | 14389.1 | 14779.4 | 11149.8 | 11888.9 | 8691.0 | 7239.7 | 5920.0 |
| 77.5° | 9293.5 | 9110.6 | 11630.3 | 8739.8 | 9678.9 | 7303.1 | 6561.6 | 3468.6 | 3302.7 | 2849.0 |
| 80° | 5185.8 | 6251.8 | 6281.0 | 4898.0 | 6110.3 | 4761.4 | 1641.6 | 114.6 | 73.2 | 107.3 |
| 82.5° | 2410.0 | 2688.0 | 3405.2 | 2270.9 | 3485.7 | 2358.7 | 339.1 | 0.0 | 0.0 | 0.0 |
| 85° | 780.6 | 1141.6 | 956.2 | 334.2 | 844.0 | 797.6 | 56.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 46.3 | 95.1 | 24.4 | 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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