

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: P643707

Luminaire Tested: GWS-SA6F-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643707
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-SAGF-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46646.4 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

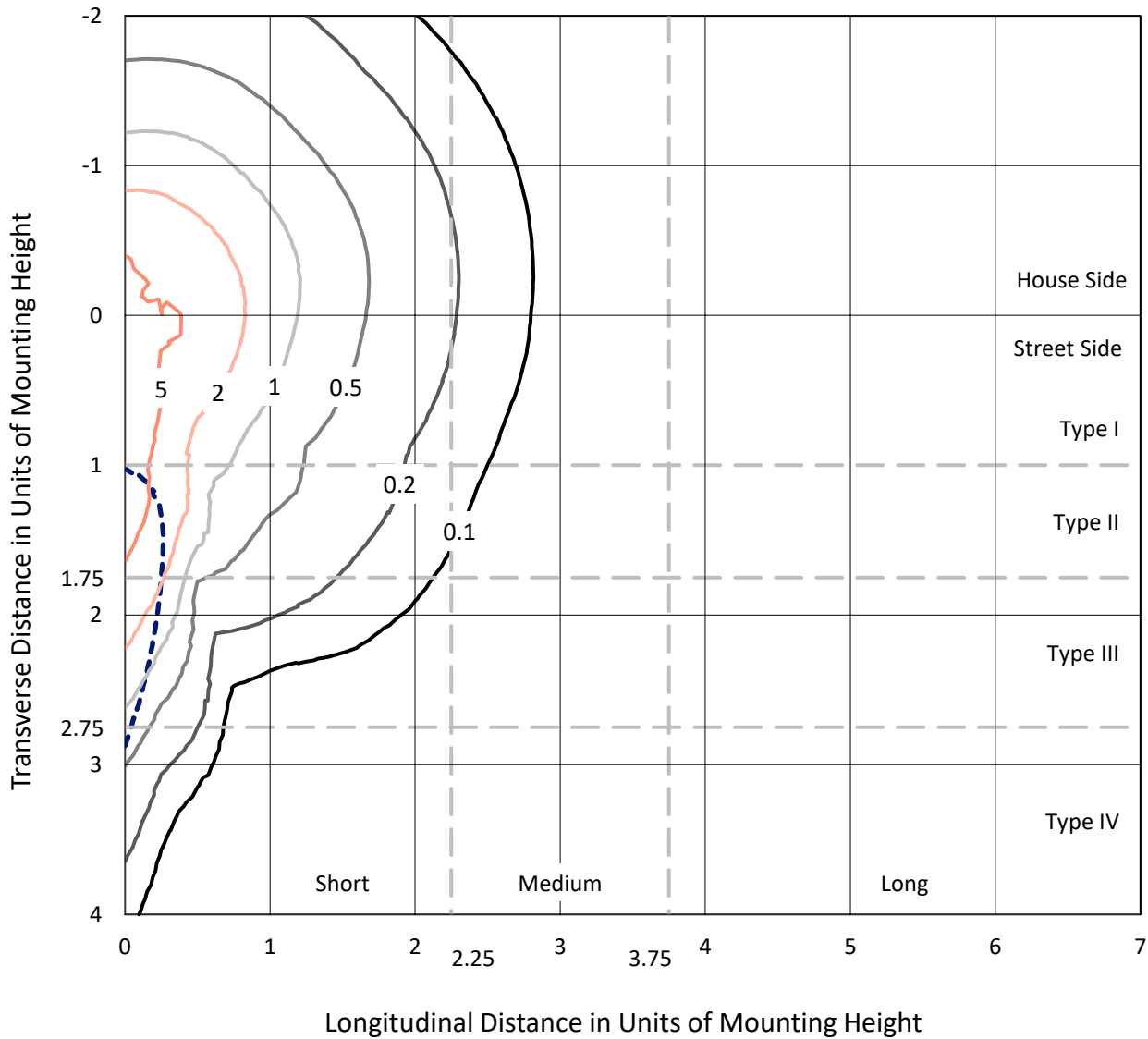
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

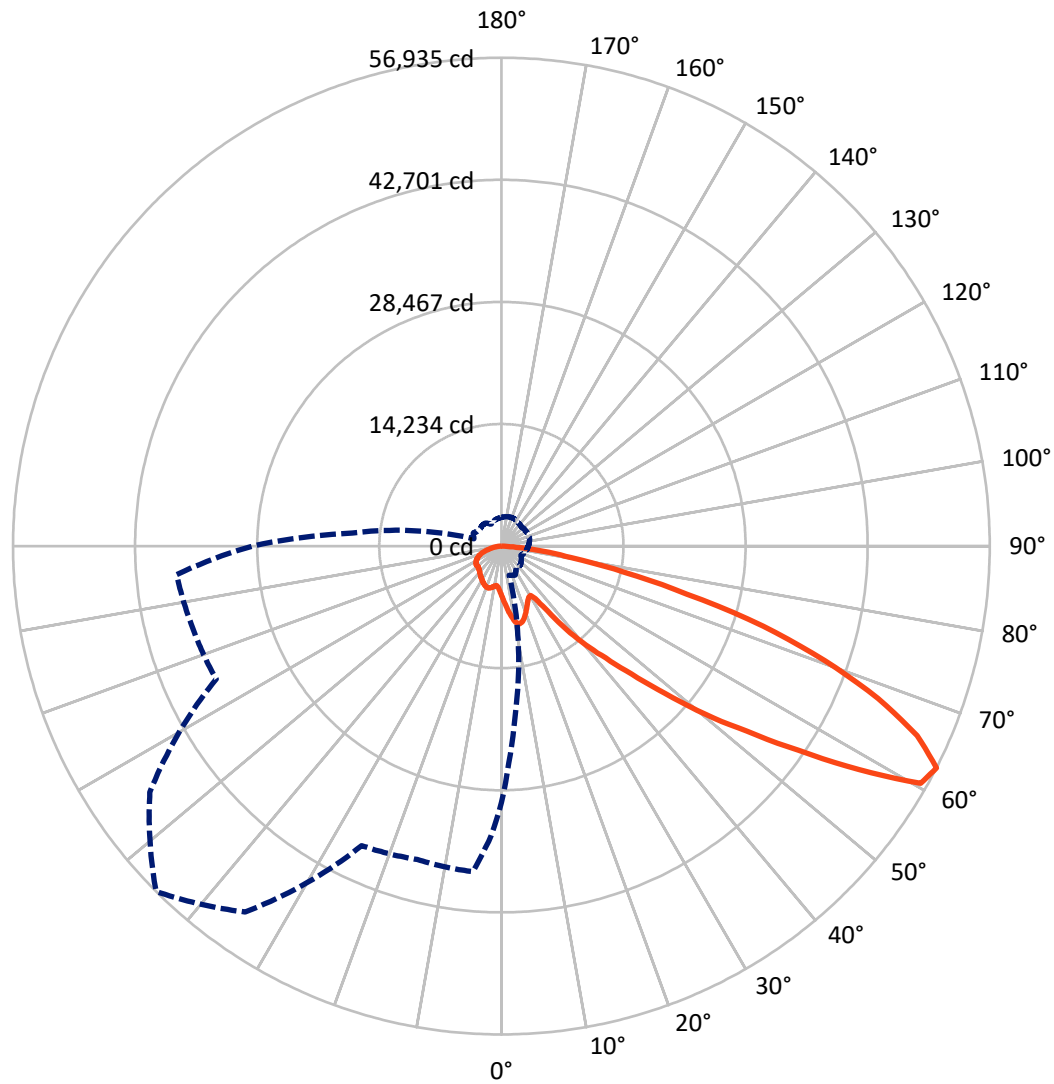
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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 | 11153.2 | 0.0 | 11153.2 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 35493.2 | 0.0 | 35493.2 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 46646.4 | 0.0 | 46646.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 572.9 | 1.2 |
| 10°-20° | 1862.1 | 4.0 |
| 20°-30° | 2931.3 | 6.3 |
| 30°-40° | 4018.0 | 8.6 |
| 40°-50° | 6269.2 | 13.4 |
| 50°-60° | 10809.4 | 23.2 |
| 60°-70° | 12526.7 | 26.9 |
| 70°-80° | 6612.2 | 14.2 |
| 80°-90° | 1044.5 | 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° | 46646.4 | 100.0 |
| 0°-180° | 46646.4 | 100.0 |

Coefficient of Utilization



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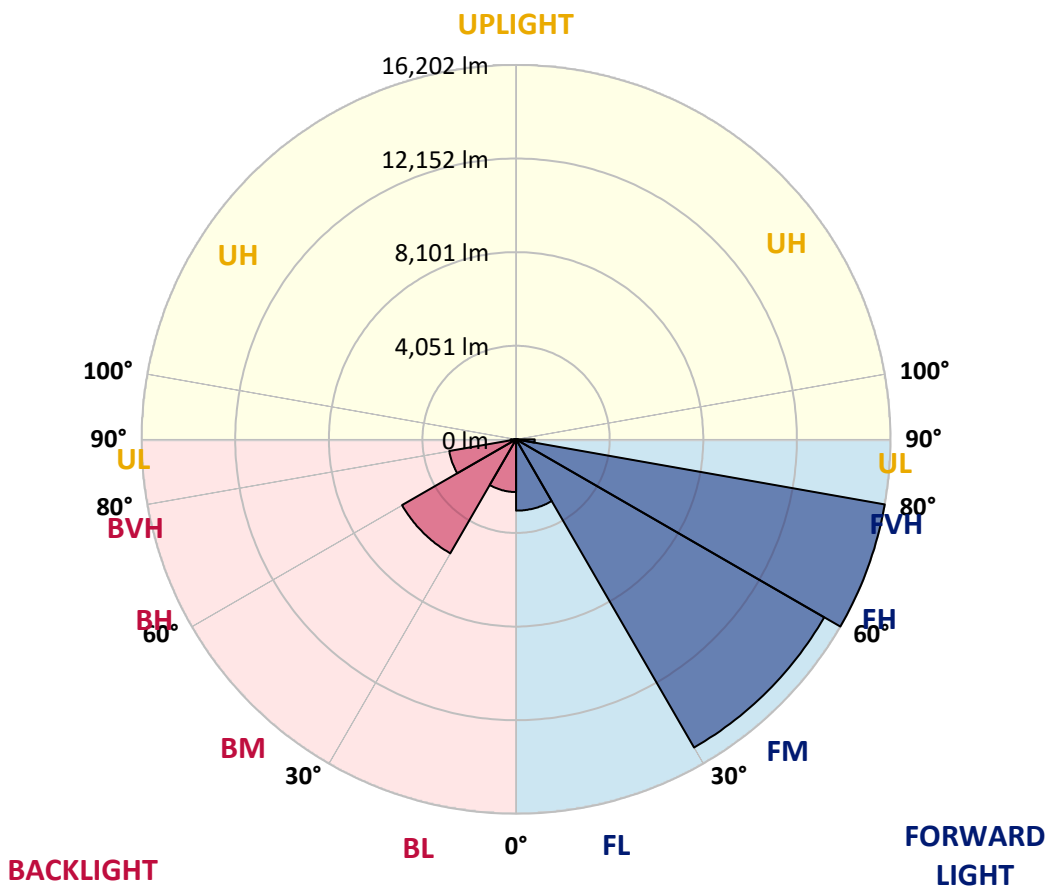
CATALOG NUMBER: GWS-SA6F-740-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3085.1 | 6.6 | | | |
| FM (30°-60°) | 15399.6 | 33.0 | | | |
| FH (60°-80°) | 16202.3 | 34.7 | | | G5 |
| FVH (80°-90°) | 806.2 | 1.7 | | | G5 |
| BL (0°-30°) | 2281.2 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 5697.0 | 12.2 | B4/8500 | | |
| BH (60°-80°) | 2936.7 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 238.3 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 |
| 2.5° | 6318.9 | 6294.0 | 6258.3 | 6137.0 | 6062.0 | 5976.4 | 5887.2 | 5783.7 | 5666.0 | 5583.9 | 5501.9 |
| 5° | 6854.1 | 6814.9 | 6729.2 | 6440.2 | 6240.4 | 6022.8 | 5840.8 | 5633.9 | 5430.5 | 5291.3 | 5152.2 |
| 7.5° | 7367.9 | 7318.0 | 7186.0 | 6743.5 | 6418.8 | 6104.8 | 5830.1 | 5530.4 | 5227.1 | 5020.2 | 4856.0 |
| 10° | 7881.7 | 7778.2 | 7610.5 | 7032.5 | 6604.4 | 6240.4 | 5926.4 | 5558.9 | 5155.8 | 4873.9 | 4699.1 |
| 12.5° | 8274.2 | 8177.9 | 7995.9 | 7296.6 | 6789.9 | 6333.2 | 5980.0 | 5641.0 | 5298.5 | 4998.8 | 4820.4 |
| 15° | 8641.7 | 8516.8 | 8309.9 | 7542.8 | 6943.3 | 6329.6 | 5872.9 | 5576.8 | 5266.8 | 5451.9 | 5220.0 |
| 17.5° | 8905.7 | 8791.6 | 8577.5 | 7742.6 | 7029.0 | 6219.0 | 5576.8 | 5402.0 | 5626.7 | 5855.1 | 5633.9 |
| 20° | 9137.6 | 9005.6 | 8788.0 | 7881.7 | 7046.8 | 5972.8 | 5216.4 | 5220.0 | 5573.2 | 5887.2 | 5833.7 |
| 22.5° | 9333.9 | 9187.6 | 8994.9 | 8038.7 | 7039.7 | 5630.3 | 4902.4 | 5116.5 | 5469.7 | 5715.9 | 5723.1 |
| 25° | 9576.5 | 9455.2 | 9294.6 | 8270.6 | 7039.7 | 5280.6 | 4674.1 | 4991.6 | 5294.9 | 5501.9 | 5494.7 |
| 27.5° | 9872.7 | 9790.6 | 9658.6 | 8623.9 | 7103.9 | 4988.1 | 4545.6 | 4831.1 | 5070.1 | 5248.5 | 5245.0 |
| 30° | 10204.5 | 10129.6 | 10029.6 | 8998.5 | 7214.5 | 4770.4 | 4474.3 | 4631.3 | 4806.1 | 4948.8 | 4948.8 |
| 32.5° | 10543.4 | 10514.9 | 10407.9 | 9298.2 | 7128.9 | 4702.6 | 4413.6 | 4431.5 | 4524.2 | 4642.0 | 4631.3 |
| 35° | 11014.4 | 10985.9 | 10850.3 | 9530.1 | 6757.8 | 4606.3 | 4317.3 | 4228.1 | 4238.8 | 4313.7 | 4338.7 |
| 37.5° | 11703.0 | 11660.2 | 11460.4 | 9801.3 | 6197.6 | 4363.7 | 4160.3 | 4014.0 | 3981.9 | 4014.0 | 4060.4 |
| 40° | 12534.4 | 12470.2 | 12199.0 | 10168.8 | 5551.8 | 4035.4 | 3914.1 | 3792.8 | 3739.3 | 3750.0 | 3803.5 |
| 42.5° | 13576.2 | 13440.7 | 13051.7 | 10557.7 | 4913.1 | 3746.4 | 3639.4 | 3564.4 | 3503.8 | 3496.6 | 3600.1 |
| 45° | 15267.5 | 14896.4 | 14279.1 | 10903.8 | 4374.4 | 3593.0 | 3393.2 | 3339.6 | 3289.7 | 3318.2 | 3439.6 |
| 47.5° | 18221.8 | 17536.7 | 16334.3 | 11200.0 | 4046.1 | 3596.5 | 3196.9 | 3139.8 | 3136.3 | 3193.4 | 3328.9 |
| 50° | 22282.2 | 21293.8 | 19438.5 | 11399.8 | 3874.8 | 3639.4 | 3079.2 | 2986.4 | 3054.2 | 3111.3 | 3239.7 |
| 52.5° | 26171.3 | 24662.0 | 22453.4 | 11396.2 | 3799.9 | 3646.5 | 3111.3 | 2843.7 | 3054.2 | 3068.5 | 3189.8 |
| 55° | 29493.1 | 26760.0 | 23266.9 | 10225.9 | 3692.9 | 3618.0 | 3236.2 | 2733.1 | 3015.0 | 3068.5 | 3164.8 |
| 57.5° | 32133.4 | 28094.4 | 23206.3 | 8259.9 | 4017.6 | 3461.0 | 3311.1 | 2708.1 | 2900.8 | 3075.6 | 3186.2 |
| 60° | 31840.8 | 27484.3 | 21711.3 | 5070.1 | 3985.5 | 3182.7 | 3300.4 | 2754.5 | 2708.1 | 2979.3 | 3161.2 |
| 62.5° | 29896.3 | 25297.1 | 19138.8 | 3518.0 | 3742.8 | 3022.1 | 3125.6 | 2836.6 | 2529.7 | 2840.1 | 3039.9 |
| 65° | 27173.9 | 22474.8 | 15949.0 | 2697.4 | 3100.6 | 3029.2 | 2829.4 | 2779.5 | 2372.7 | 2618.9 | 2833.0 |
| 67.5° | 23573.8 | 18974.6 | 12591.5 | 2137.2 | 2162.2 | 2622.5 | 2569.0 | 2469.1 | 2226.4 | 2422.7 | 2615.3 |
| 70° | 17722.3 | 13847.4 | 8663.1 | 1719.8 | 1637.7 | 2190.8 | 2308.5 | 2219.3 | 2083.7 | 2140.8 | 2344.2 |
| 72.5° | 12488.0 | 9041.3 | 4745.4 | 1363.0 | 1263.1 | 1684.1 | 2005.2 | 1990.9 | 1841.1 | 1883.9 | 2083.7 |
| 75° | 9280.4 | 6397.4 | 2965.0 | 1077.5 | 1027.6 | 1206.0 | 1680.5 | 1723.3 | 1598.5 | 1648.4 | 1801.8 |
| 77.5° | 6176.2 | 4142.4 | 1648.4 | 799.2 | 799.2 | 881.3 | 1252.4 | 1452.2 | 1359.4 | 1398.7 | 1505.7 |
| 80° | 3407.4 | 2108.7 | 824.2 | 524.5 | 538.8 | 606.6 | 913.4 | 1045.4 | 1049.0 | 1145.3 | 1173.9 |
| 82.5° | 1077.5 | 670.8 | 367.5 | 306.8 | 289.0 | 346.1 | 588.7 | 749.3 | 699.3 | 892.0 | 820.6 |
| 85° | 246.2 | 157.0 | 67.8 | 67.8 | 74.9 | 114.2 | 224.8 | 399.6 | 510.2 | 613.7 | 446.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 157.0 | 231.9 | 206.9 |
| 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-SA6F-740-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 |
| 2.5° | 5451.9 | 5380.5 | 5359.1 | 5298.5 | 5291.3 | 5234.3 | 5212.8 | 5212.8 | 5237.8 | 5237.8 | 5262.8 |
| 5° | 5095.1 | 5005.9 | 4956.0 | 4884.6 | 4866.8 | 4823.9 | 4795.4 | 4799.0 | 4831.1 | 4852.5 | 4895.3 |
| 7.5° | 4781.1 | 4720.5 | 4684.8 | 4652.7 | 4645.5 | 4638.4 | 4606.3 | 4602.7 | 4613.4 | 4645.5 | 4677.6 |
| 10° | 4649.1 | 4606.3 | 4617.0 | 4642.0 | 4681.2 | 4702.6 | 4674.1 | 4659.8 | 4649.1 | 4670.5 | 4699.1 |
| 12.5° | 4777.6 | 4734.7 | 4756.1 | 4799.0 | 4852.5 | 4873.9 | 4863.2 | 4859.6 | 4870.3 | 4952.4 | 5013.0 |
| 15° | 5059.4 | 4977.4 | 4948.8 | 4966.7 | 5009.5 | 5030.9 | 5020.2 | 5034.4 | 5102.2 | 5316.3 | 5469.7 |
| 17.5° | 5409.1 | 5209.3 | 5095.1 | 5063.0 | 5080.8 | 5098.7 | 5098.7 | 5134.4 | 5252.1 | 5566.1 | 5758.8 |
| 20° | 5598.2 | 5337.7 | 5145.1 | 5066.6 | 5073.7 | 5091.5 | 5091.5 | 5141.5 | 5273.5 | 5608.9 | 5733.8 |
| 22.5° | 5548.2 | 5309.2 | 5073.7 | 4988.1 | 4991.6 | 5005.9 | 5005.9 | 5048.7 | 5166.5 | 5462.6 | 5519.7 |
| 25° | 5352.0 | 5141.5 | 4909.6 | 4834.6 | 4841.8 | 4866.8 | 4859.6 | 4884.6 | 4973.8 | 5216.4 | 5248.5 |
| 27.5° | 5116.5 | 4931.0 | 4702.6 | 4645.5 | 4677.6 | 4727.6 | 4684.8 | 4688.4 | 4770.4 | 4973.8 | 4977.4 |
| 30° | 4863.2 | 4709.8 | 4506.4 | 4463.6 | 4524.2 | 4549.2 | 4510.0 | 4510.0 | 4592.0 | 4731.2 | 4727.6 |
| 32.5° | 4588.4 | 4492.1 | 4345.8 | 4299.4 | 4367.2 | 4406.5 | 4356.5 | 4363.7 | 4427.9 | 4520.7 | 4485.0 |
| 35° | 4331.6 | 4281.6 | 4213.8 | 4181.7 | 4224.5 | 4260.2 | 4228.1 | 4242.4 | 4303.0 | 4328.0 | 4278.0 |
| 37.5° | 4085.4 | 4078.2 | 4085.4 | 4085.4 | 4096.1 | 4106.8 | 4085.4 | 4121.0 | 4174.6 | 4142.4 | 4085.4 |
| 40° | 3871.3 | 3899.8 | 3967.6 | 3949.8 | 3939.1 | 3949.8 | 3935.5 | 3996.2 | 4049.7 | 3992.6 | 3924.8 |
| 42.5° | 3692.9 | 3746.4 | 3849.9 | 3849.9 | 3828.5 | 3835.6 | 3828.5 | 3903.4 | 3942.6 | 3864.1 | 3789.2 |
| 45° | 3539.5 | 3618.0 | 3750.0 | 3767.8 | 3732.1 | 3732.1 | 3746.4 | 3839.2 | 3853.4 | 3746.4 | 3667.9 |
| 47.5° | 3432.4 | 3528.8 | 3678.6 | 3710.7 | 3657.2 | 3653.6 | 3692.9 | 3792.8 | 3792.8 | 3667.9 | 3578.7 |
| 50° | 3357.5 | 3464.5 | 3642.9 | 3685.7 | 3632.2 | 3618.0 | 3682.2 | 3778.5 | 3757.1 | 3607.2 | 3518.0 |
| 52.5° | 3307.5 | 3418.1 | 3639.4 | 3700.0 | 3664.3 | 3650.1 | 3714.3 | 3782.1 | 3728.6 | 3568.0 | 3475.2 |
| 55° | 3275.4 | 3396.7 | 3650.1 | 3700.0 | 3660.8 | 3635.8 | 3700.0 | 3760.7 | 3732.1 | 3546.6 | 3457.4 |
| 57.5° | 3293.3 | 3414.6 | 3635.8 | 3660.8 | 3614.4 | 3571.6 | 3646.5 | 3732.1 | 3721.4 | 3553.7 | 3464.5 |
| 60° | 3264.7 | 3375.3 | 3557.3 | 3564.4 | 3485.9 | 3418.1 | 3528.8 | 3657.2 | 3657.2 | 3528.8 | 3450.3 |
| 62.5° | 3132.7 | 3243.3 | 3403.9 | 3411.0 | 3321.8 | 3246.9 | 3375.3 | 3528.8 | 3525.2 | 3421.7 | 3339.6 |
| 65° | 2915.1 | 3018.5 | 3200.5 | 3218.3 | 3129.1 | 3050.6 | 3182.7 | 3325.4 | 3336.1 | 3243.3 | 3172.0 |
| 67.5° | 2676.0 | 2768.8 | 2904.4 | 2975.7 | 2900.8 | 2818.7 | 2940.0 | 3075.6 | 3072.0 | 2961.4 | 2886.5 |
| 70° | 2390.6 | 2476.2 | 2601.1 | 2661.7 | 2615.3 | 2536.8 | 2647.5 | 2718.8 | 2686.7 | 2633.2 | 2583.2 |
| 72.5° | 2108.7 | 2190.8 | 2308.5 | 2308.5 | 2258.5 | 2183.6 | 2215.7 | 2344.2 | 2383.4 | 2344.2 | 2312.1 |
| 75° | 1812.5 | 1883.9 | 1966.0 | 1983.8 | 1873.2 | 1737.6 | 1887.5 | 1998.1 | 2044.5 | 2026.6 | 1987.4 |
| 77.5° | 1509.3 | 1562.8 | 1684.1 | 1652.0 | 1445.0 | 1373.7 | 1495.0 | 1659.1 | 1691.2 | 1680.5 | 1627.0 |
| 80° | 1163.2 | 1195.3 | 1323.7 | 1259.5 | 1098.9 | 1052.6 | 1106.1 | 1234.5 | 1241.7 | 1206.0 | 1138.2 |
| 82.5° | 781.4 | 824.2 | 909.8 | 785.0 | 781.4 | 738.6 | 695.8 | 710.0 | 774.3 | 767.1 | 720.7 |
| 85° | 399.6 | 421.0 | 503.1 | 471.0 | 403.2 | 349.7 | 331.8 | 353.2 | 317.6 | 289.0 | 249.8 |
| 87.5° | 167.7 | 182.0 | 249.8 | 139.2 | 42.8 | 0.0 | 0.0 | 21.4 | 32.1 | 46.4 | 50.0 |
| 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-SA6F-740-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 |
| 2.5° | 5319.9 | 5359.1 | 5455.5 | 5576.8 | 5694.5 | 5815.8 | 5947.9 | 6029.9 | 6129.8 | 6258.3 | 6261.8 |
| 5° | 4948.8 | 5038.0 | 5177.2 | 5362.7 | 5555.4 | 5776.6 | 6033.5 | 6247.6 | 6504.5 | 6707.8 | 6789.9 |
| 7.5° | 4720.5 | 4848.9 | 5023.7 | 5259.2 | 5512.6 | 5787.3 | 6122.7 | 6483.1 | 6904.1 | 7175.2 | 7335.8 |
| 10° | 4741.9 | 4938.1 | 5112.9 | 5312.8 | 5541.1 | 5837.2 | 6269.0 | 6747.1 | 7264.4 | 7621.2 | 7821.1 |
| 12.5° | 5123.6 | 5330.6 | 5298.5 | 5287.8 | 5441.2 | 5801.6 | 6386.7 | 7014.7 | 7646.2 | 8003.0 | 8242.1 |
| 15° | 5605.3 | 5683.8 | 5380.5 | 5152.2 | 5245.0 | 5673.1 | 6450.9 | 7253.7 | 7963.8 | 8399.1 | 8634.6 |
| 17.5° | 5851.5 | 5694.5 | 5327.0 | 4984.5 | 4959.5 | 5476.9 | 6483.1 | 7496.4 | 8320.6 | 8755.9 | 9005.6 |
| 20° | 5737.3 | 5509.0 | 5198.6 | 4873.9 | 4695.5 | 5209.3 | 6465.2 | 7689.0 | 8645.3 | 9130.5 | 9333.9 |
| 22.5° | 5491.2 | 5291.3 | 5048.7 | 4738.3 | 4481.4 | 4916.7 | 6418.8 | 7881.7 | 8934.3 | 9423.1 | 9601.5 |
| 25° | 5223.6 | 5073.7 | 4873.9 | 4602.7 | 4360.1 | 4659.8 | 6386.7 | 8138.6 | 9266.1 | 9733.5 | 9847.7 |
| 27.5° | 4956.0 | 4845.3 | 4681.2 | 4470.7 | 4331.6 | 4481.4 | 6397.4 | 8474.0 | 9694.3 | 10136.7 | 10090.3 |
| 30° | 4691.9 | 4595.6 | 4481.4 | 4388.6 | 4328.0 | 4438.6 | 6368.9 | 8830.8 | 10165.2 | 10575.6 | 10300.8 |
| 32.5° | 4442.2 | 4353.0 | 4281.6 | 4295.9 | 4331.6 | 4456.4 | 6222.6 | 9155.5 | 10597.0 | 10946.6 | 10529.2 |
| 35° | 4228.1 | 4135.3 | 4135.3 | 4185.3 | 4317.3 | 4395.8 | 5844.4 | 9408.8 | 11075.1 | 11424.7 | 10853.9 |
| 37.5° | 4028.3 | 3946.2 | 3999.7 | 4081.8 | 4206.7 | 4231.6 | 5359.1 | 9655.0 | 11770.8 | 12099.1 | 11356.9 |
| 40° | 3853.4 | 3771.4 | 3867.7 | 3971.2 | 4035.4 | 4024.7 | 4866.8 | 9997.5 | 12591.5 | 12930.4 | 12024.2 |
| 42.5° | 3714.3 | 3639.4 | 3725.0 | 3857.0 | 3867.7 | 3878.4 | 4506.4 | 10325.8 | 13544.1 | 13975.9 | 13173.1 |
| 45° | 3600.1 | 3546.6 | 3589.4 | 3721.4 | 3721.4 | 3885.6 | 4281.6 | 10600.5 | 14978.5 | 15742.0 | 15281.7 |
| 47.5° | 3510.9 | 3478.8 | 3500.2 | 3543.0 | 3614.4 | 4014.0 | 4138.9 | 10811.0 | 17590.2 | 19088.8 | 18625.0 |
| 50° | 3461.0 | 3428.8 | 3457.4 | 3368.2 | 3582.3 | 4078.2 | 4092.5 | 10971.6 | 21033.4 | 23381.1 | 22806.7 |
| 52.5° | 3418.1 | 3407.4 | 3425.3 | 3218.3 | 3653.6 | 4035.4 | 4056.8 | 10757.5 | 23341.9 | 27605.6 | 28172.9 |
| 55° | 3403.9 | 3411.0 | 3325.4 | 3107.7 | 3739.3 | 3892.7 | 3949.8 | 9226.8 | 23969.8 | 31248.5 | 34770.2 |
| 57.5° | 3411.0 | 3389.6 | 3172.0 | 3118.4 | 3742.8 | 3607.2 | 4103.2 | 6583.0 | 23056.4 | 32832.7 | 41224.7 |
| 60° | 3386.0 | 3279.0 | 2986.4 | 3214.8 | 3578.7 | 3271.9 | 3992.6 | 4292.3 | 20648.0 | 31616.0 | 41599.3 |
| 62.5° | 3275.4 | 3118.4 | 2825.9 | 3268.3 | 3286.1 | 3072.0 | 3625.1 | 3307.5 | 17436.8 | 29011.4 | 37988.5 |
| 65° | 3114.9 | 2904.4 | 2690.3 | 3157.7 | 2990.0 | 2979.3 | 2726.0 | 2651.0 | 14022.2 | 25910.8 | 34563.2 |
| 67.5° | 2850.8 | 2640.3 | 2590.4 | 2904.4 | 2690.3 | 2640.3 | 2190.8 | 2197.9 | 11189.2 | 22606.8 | 31120.1 |
| 70° | 2551.1 | 2340.6 | 2379.9 | 2626.0 | 2394.1 | 2194.3 | 1773.3 | 1830.4 | 8488.3 | 18835.5 | 26478.1 |
| 72.5° | 2354.9 | 2073.0 | 2076.6 | 2312.1 | 2105.1 | 1776.9 | 1459.3 | 1509.3 | 5387.7 | 14197.1 | 21051.2 |
| 75° | 1987.4 | 1826.8 | 1748.3 | 1873.2 | 1787.6 | 1384.4 | 1227.4 | 1216.7 | 3193.4 | 10175.9 | 15763.4 |
| 77.5° | 1659.1 | 1534.2 | 1495.0 | 1544.9 | 1334.4 | 1024.0 | 988.3 | 970.5 | 1809.0 | 6518.7 | 10329.4 |
| 80° | 1202.4 | 1170.3 | 1166.7 | 1191.7 | 1027.6 | 752.8 | 752.8 | 756.4 | 974.1 | 3539.5 | 5823.0 |
| 82.5° | 763.6 | 834.9 | 738.6 | 820.6 | 699.3 | 535.2 | 499.5 | 567.3 | 560.2 | 1509.3 | 2454.8 |
| 85° | 317.6 | 435.3 | 406.8 | 431.7 | 331.8 | 292.6 | 314.0 | 339.0 | 324.7 | 581.6 | 956.2 |
| 87.5° | 60.7 | 71.4 | 78.5 | 74.9 | 74.9 | 92.8 | 103.5 | 124.9 | 124.9 | 167.7 | 289.0 |
| 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° | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 | 5815.8 |
| 2.5° | 6397.4 | 6500.9 | 6479.5 | 6525.9 | 6465.2 | 6486.6 | 6365.3 | 6333.2 | 6311.8 | 6318.9 |
| 5° | 7053.9 | 7264.4 | 7303.7 | 7382.2 | 7328.7 | 7328.7 | 7114.6 | 6954.0 | 6896.9 | 6854.1 |
| 7.5° | 7721.2 | 8024.4 | 8224.2 | 8245.6 | 8217.1 | 8160.0 | 7849.6 | 7560.6 | 7457.1 | 7367.9 |
| 10° | 8313.4 | 8677.4 | 8902.2 | 9009.2 | 8955.7 | 8866.5 | 8481.1 | 8085.1 | 7960.2 | 7881.7 |
| 12.5° | 8766.6 | 9087.7 | 9237.6 | 9308.9 | 9301.8 | 9269.7 | 8955.7 | 8527.5 | 8395.5 | 8274.2 |
| 15° | 9059.2 | 9219.7 | 9162.6 | 9159.1 | 9209.0 | 9337.5 | 9241.1 | 8905.7 | 8752.3 | 8641.7 |
| 17.5° | 9248.3 | 9094.8 | 8841.5 | 8723.8 | 8830.8 | 9134.1 | 9355.3 | 9166.2 | 9027.0 | 8905.7 |
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| 25° | 9044.9 | 7960.2 | 7360.8 | 7128.9 | 7260.9 | 7796.1 | 8798.7 | 9651.4 | 9655.0 | 9576.5 |
| 27.5° | 8805.8 | 7578.4 | 7000.4 | 6782.8 | 6911.2 | 7410.7 | 8488.3 | 9776.3 | 9901.2 | 9872.7 |
| 30° | 8563.2 | 7350.1 | 6829.2 | 6675.7 | 6772.1 | 7214.5 | 8170.7 | 9904.8 | 10154.5 | 10204.5 |
| 32.5° | 8452.6 | 7460.7 | 7232.3 | 7300.1 | 7175.2 | 7328.7 | 8056.5 | 10086.7 | 10461.4 | 10543.4 |
| 35° | 8598.9 | 8441.9 | 9019.9 | 9287.5 | 8845.1 | 8263.5 | 8202.8 | 10361.5 | 10893.1 | 11014.4 |
| 37.5° | 9308.9 | 10543.4 | 11406.9 | 12348.8 | 11581.7 | 10300.8 | 8927.1 | 10828.9 | 11510.4 | 11703.0 |
| 40° | 10853.9 | 12377.4 | 13936.6 | 15153.3 | 13993.7 | 12270.4 | 10304.4 | 11524.6 | 12359.6 | 12534.4 |
| 42.5° | 12309.6 | 14097.2 | 16245.1 | 17818.6 | 16312.9 | 13879.5 | 11788.7 | 12694.9 | 13479.9 | 13576.2 |
| 45° | 13736.8 | 15784.8 | 19038.8 | 21226.0 | 19181.6 | 15410.2 | 13305.1 | 14671.6 | 15263.9 | 15267.5 |
| 47.5° | 15410.2 | 17686.6 | 22542.6 | 25657.5 | 22988.6 | 17105.0 | 14728.7 | 17800.8 | 18625.0 | 18221.8 |
| 50° | 17411.8 | 19577.6 | 26149.9 | 30813.2 | 27630.6 | 19188.7 | 16537.7 | 21614.9 | 22738.9 | 22282.2 |
| 52.5° | 20091.4 | 21661.3 | 30124.6 | 35840.6 | 32690.0 | 21561.4 | 19160.2 | 26653.0 | 27024.0 | 26171.3 |
| 55° | 23862.8 | 24669.2 | 35226.9 | 42048.9 | 38338.2 | 24483.6 | 22995.8 | 32975.5 | 31937.2 | 29493.1 |
| 57.5° | 32451.0 | 29428.9 | 41777.7 | 49131.4 | 44728.4 | 29792.8 | 31402.0 | 39947.3 | 36254.4 | 32133.4 |
| 60° | 39636.9 | 35209.0 | 47839.7 | 56160.3 | 50205.3 | 35644.3 | 39294.4 | 41160.4 | 36093.9 | 31840.8 |
| 62.5° | 37214.2 | 36682.6 | 50026.9 | 56934.6 | 52075.0 | 38523.7 | 37827.9 | 38102.7 | 33739.0 | 29896.3 |
| 65° | 32650.8 | 33838.9 | 48075.2 | 53263.1 | 50002.0 | 35944.0 | 34217.1 | 35276.8 | 31045.2 | 27173.9 |
| 67.5° | 29956.9 | 30831.1 | 44603.6 | 47386.6 | 46234.1 | 33153.9 | 31409.1 | 30642.0 | 26863.5 | 23573.8 |
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| 75° | 19720.3 | 18642.8 | 26570.9 | 22321.4 | 23638.0 | 17358.3 | 17165.6 | 13183.8 | 10993.0 | 9280.4 |
| 77.5° | 15035.6 | 13776.0 | 19409.9 | 14678.8 | 16601.9 | 11560.3 | 12905.5 | 8941.4 | 7735.4 | 6176.2 |
| 80° | 10093.9 | 9308.9 | 10725.4 | 8284.9 | 10861.0 | 7967.3 | 8416.9 | 5066.6 | 4392.2 | 3407.4 |
| 82.5° | 5323.5 | 4545.6 | 6629.3 | 4913.1 | 6550.8 | 4377.9 | 3157.7 | 1566.4 | 1334.4 | 1077.5 |
| 85° | 2062.3 | 2387.0 | 3250.4 | 1748.3 | 2540.4 | 1562.8 | 913.4 | 388.9 | 324.7 | 246.2 |
| 87.5° | 399.6 | 617.3 | 339.0 | 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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