

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: P641288

Luminaire Tested: GWS-SA5F-750-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22777.5 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

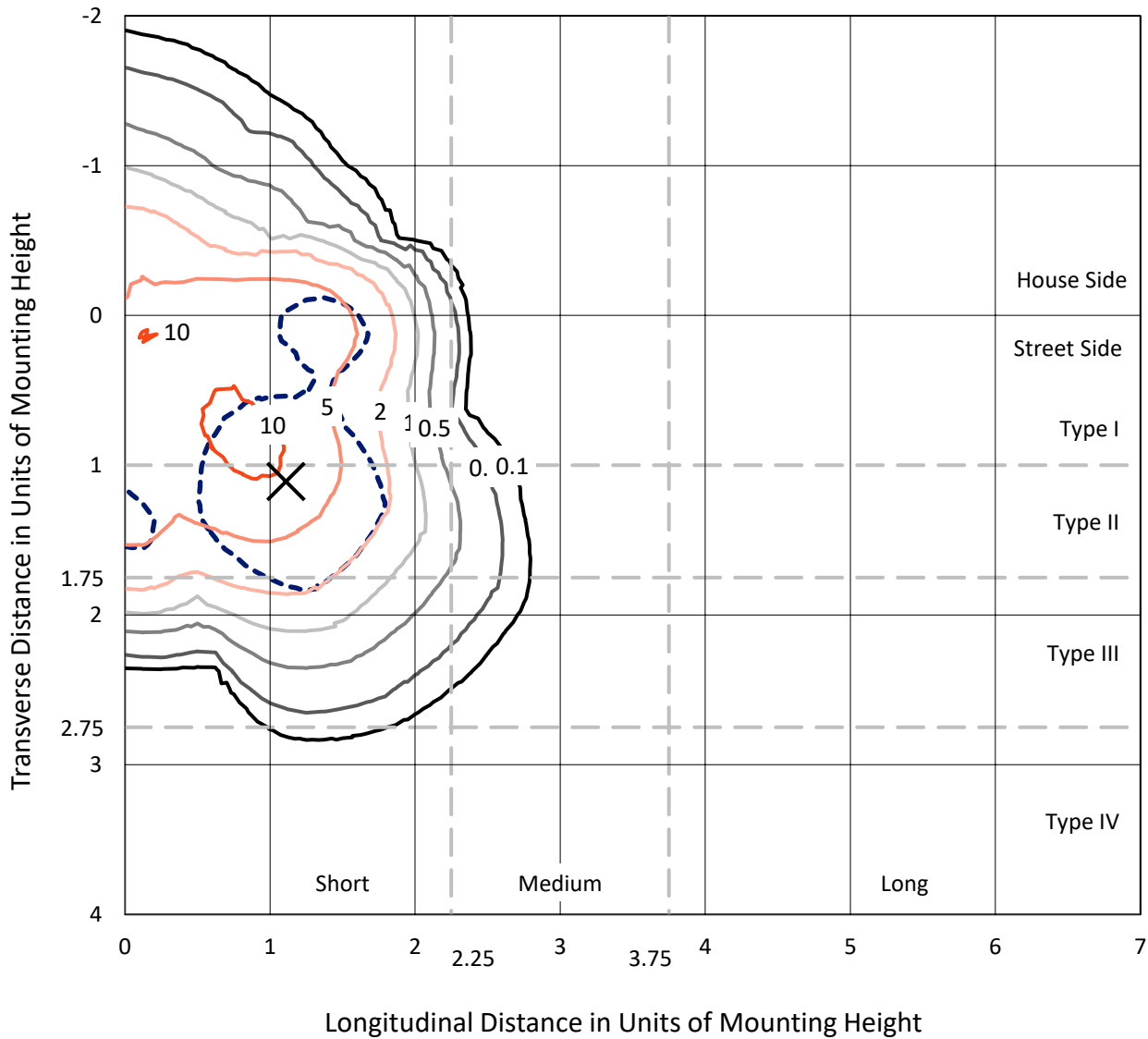
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

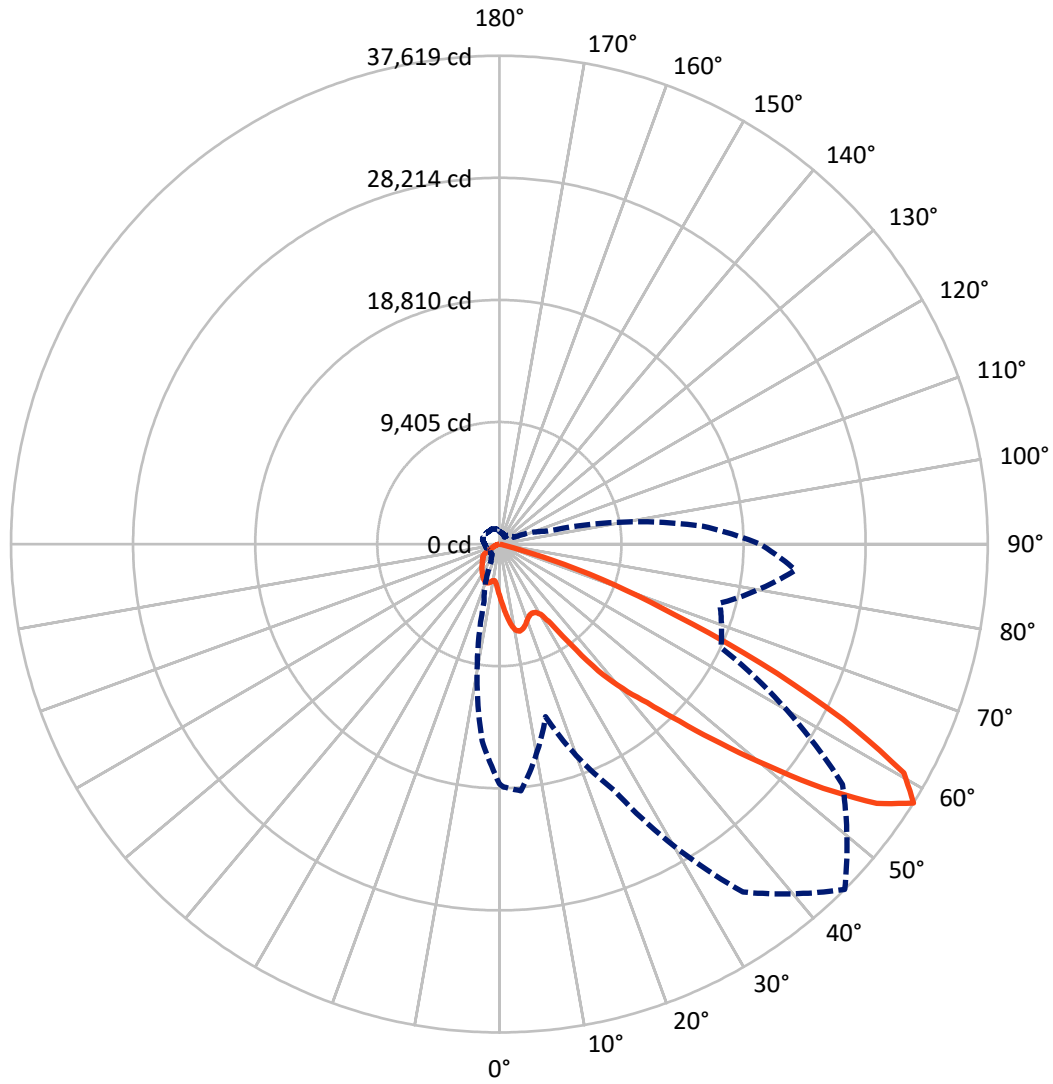
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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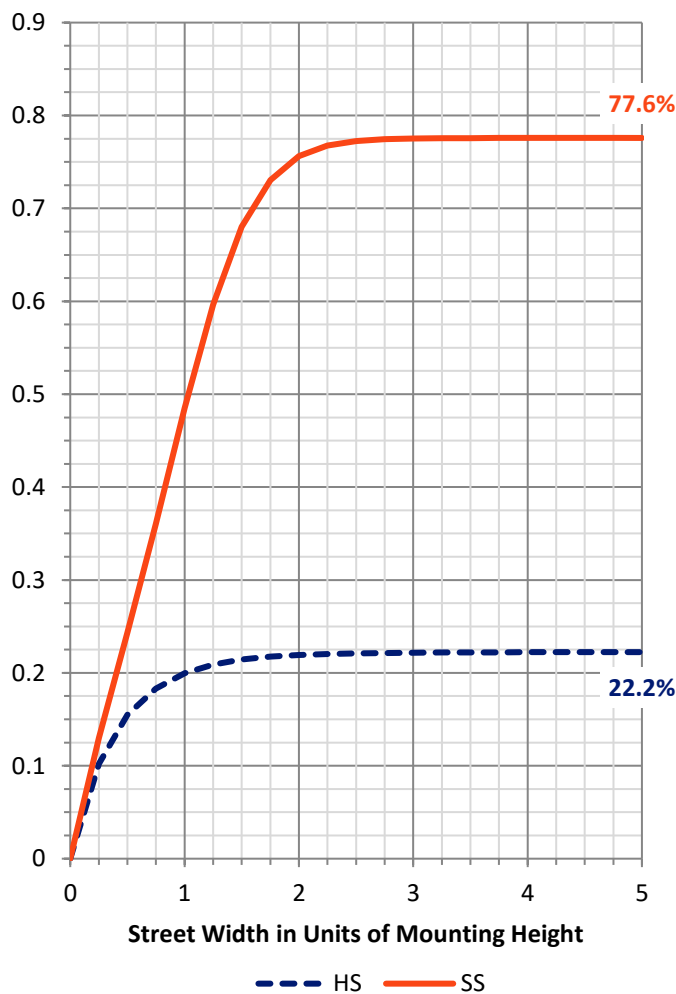
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5100.5 | 0.0 | 5100.5 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 17677.0 | 0.0 | 17677.0 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 22777.5 | 0.0 | 22777.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 393.8 | 1.7 |
| 10°-20° | 1274.0 | 5.6 |
| 20°-30° | 2069.6 | 9.1 |
| 30°-40° | 3197.9 | 14.0 |
| 40°-50° | 5127.8 | 22.5 |
| 50°-60° | 7008.3 | 30.8 |
| 60°-70° | 3394.3 | 14.9 |
| 70°-80° | 310.8 | 1.4 |
| 80°-90° | 0.9 | 0.0 |
| 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° | 22777.5 | 100.0 |
| 0°-180° | 22777.5 | 100.0 |

Coefficient of Utilization



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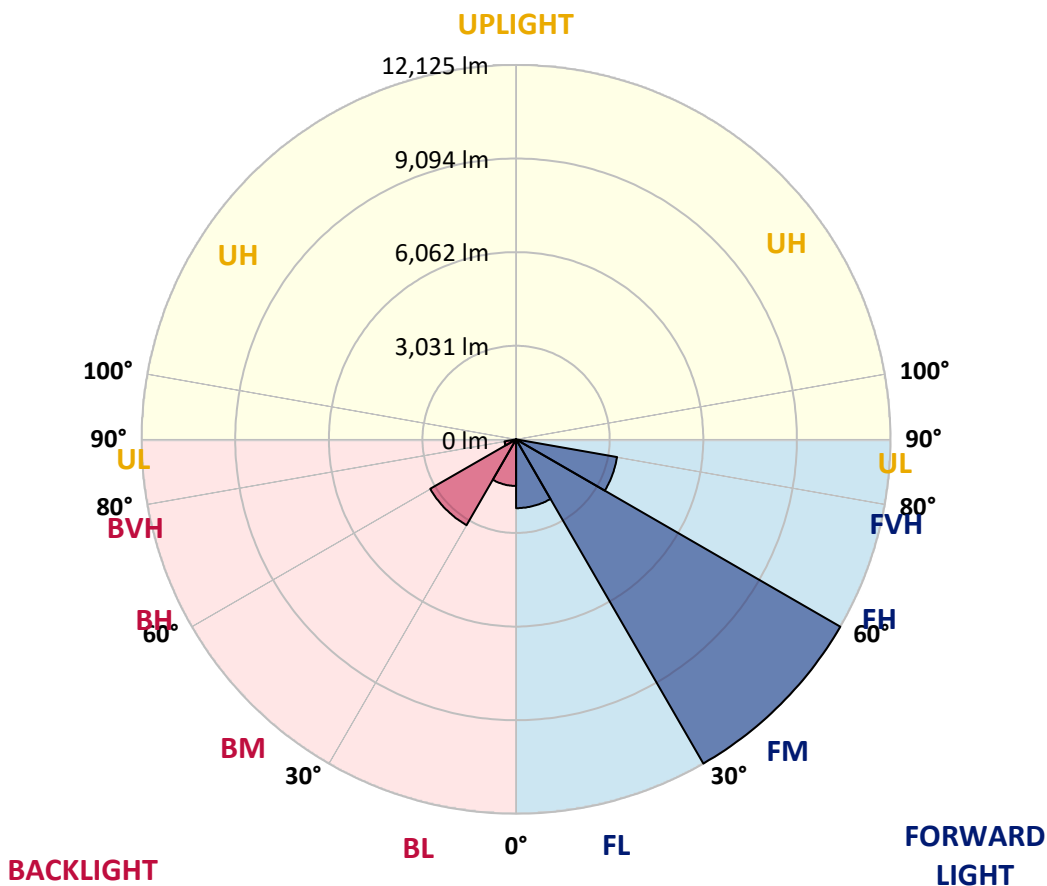
CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2228.3 | 9.8 | | | |
| FM (30°-60°) | 12125.0 | 53.2 | | | |
| FH (60°-80°) | 3322.8 | 14.6 | | | G2/5000 |
| FVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1509.2 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 3209.0 | 14.1 | B3/5000 | | |
| BH (60°-80°) | 382.3 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 |
| 2.5° | 4337.0 | 4364.6 | 4410.5 | 4508.4 | 4591.0 | 4646.1 | 4670.6 | 4664.5 | 4630.8 | 4606.3 | 4557.4 |
| 5° | 4802.2 | 4802.2 | 4891.0 | 5114.4 | 5285.8 | 5392.9 | 5448.0 | 5414.4 | 5347.0 | 5239.9 | 5074.6 |
| 7.5° | 5209.3 | 5224.6 | 5374.6 | 5692.9 | 5953.1 | 6106.1 | 6194.8 | 6176.5 | 6057.1 | 5852.1 | 5521.5 |
| 10° | 5527.6 | 5546.0 | 5744.9 | 6133.6 | 6439.7 | 6595.8 | 6727.4 | 6739.7 | 6608.0 | 6335.6 | 5956.1 |
| 12.5° | 5836.7 | 5855.1 | 6063.2 | 6436.6 | 6706.0 | 6770.3 | 6886.6 | 6932.5 | 6898.8 | 6706.0 | 6311.2 |
| 15° | 6170.4 | 6213.2 | 6390.7 | 6669.3 | 6782.5 | 6706.0 | 6782.5 | 6865.1 | 6978.4 | 6960.0 | 6605.0 |
| 17.5° | 6497.9 | 6528.5 | 6709.0 | 6807.0 | 6681.5 | 6482.6 | 6519.3 | 6617.2 | 6874.3 | 7125.3 | 6895.7 |
| 20° | 6800.9 | 6843.7 | 6993.7 | 6865.1 | 6485.6 | 6176.5 | 6179.5 | 6308.1 | 6699.9 | 7226.3 | 7192.6 |
| 22.5° | 7119.2 | 7183.5 | 7290.6 | 6929.4 | 6305.0 | 5934.7 | 5950.0 | 6066.3 | 6562.1 | 7321.2 | 7529.3 |
| 25° | 7535.4 | 7596.6 | 7667.0 | 7088.6 | 6246.9 | 5815.3 | 5873.5 | 5980.6 | 6562.1 | 7483.4 | 7945.6 |
| 27.5° | 8098.6 | 8141.5 | 8144.5 | 7385.5 | 6347.9 | 5833.7 | 5956.1 | 6078.5 | 6758.0 | 7807.8 | 8502.6 |
| 30° | 8805.6 | 8873.0 | 8784.2 | 7847.6 | 6663.1 | 6078.5 | 6259.1 | 6412.2 | 7180.4 | 8355.7 | 9322.9 |
| 32.5° | 9665.7 | 9760.6 | 9641.2 | 8533.2 | 7321.2 | 6923.3 | 7250.8 | 7339.5 | 7853.7 | 9148.4 | 10253.3 |
| 35° | 10675.7 | 10755.3 | 10626.7 | 9482.0 | 8857.7 | 8931.1 | 9524.9 | 9411.6 | 9206.6 | 10124.8 | 11339.9 |
| 37.5° | 11783.7 | 11857.1 | 11609.2 | 10920.6 | 11128.7 | 11447.0 | 12395.8 | 12007.1 | 11346.0 | 11382.7 | 12518.2 |
| 40° | 12799.8 | 12879.4 | 12490.7 | 12484.6 | 12913.1 | 13494.6 | 14639.3 | 14103.7 | 13203.8 | 13029.4 | 13623.2 |
| 42.5° | 13852.7 | 13907.8 | 13555.8 | 13317.1 | 14290.4 | 15487.1 | 16699.2 | 15976.8 | 14434.2 | 14244.5 | 15006.6 |
| 45° | 15355.5 | 15471.8 | 14844.4 | 13727.2 | 15530.0 | 17779.6 | 19469.1 | 18058.1 | 15272.9 | 15119.8 | 17124.6 |
| 47.5° | 17565.3 | 17651.0 | 16371.7 | 13984.3 | 16683.9 | 20635.2 | 22930.7 | 20757.6 | 16010.5 | 15661.6 | 20020.0 |
| 50° | 19392.6 | 19450.7 | 17776.5 | 14265.9 | 17911.2 | 23714.3 | 26876.0 | 23959.1 | 16839.9 | 16558.4 | 22722.6 |
| 52.5° | 20739.3 | 20959.6 | 19622.1 | 14844.4 | 19524.2 | 27335.1 | 31243.6 | 27751.3 | 18134.6 | 18290.7 | 24963.0 |
| 55° | 21017.8 | 21317.7 | 20883.1 | 15199.4 | 20944.3 | 31023.2 | 35277.6 | 31145.6 | 19426.2 | 19603.8 | 25716.0 |
| 57.5° | 18471.3 | 18710.0 | 19071.2 | 13767.0 | 20910.7 | 32712.7 | 37619.0 | 32272.0 | 18838.6 | 17580.6 | 22897.1 |
| 60° | 13837.4 | 14002.7 | 14657.7 | 10522.7 | 19230.4 | 31219.1 | 35794.8 | 30356.0 | 16472.7 | 13415.0 | 17446.0 |
| 62.5° | 8205.7 | 8279.2 | 9108.6 | 6816.2 | 15961.5 | 26885.2 | 29685.7 | 26193.4 | 13017.1 | 9022.9 | 10684.9 |
| 65° | 3149.5 | 3118.8 | 3752.4 | 3363.7 | 11737.8 | 21415.7 | 22079.9 | 19968.0 | 8931.1 | 4135.0 | 4073.8 |
| 67.5° | 486.7 | 465.2 | 627.4 | 994.7 | 8465.9 | 14841.3 | 14568.9 | 14391.4 | 5595.0 | 964.1 | 841.7 |
| 70° | 110.2 | 110.2 | 134.7 | 293.8 | 5172.6 | 8719.9 | 9332.1 | 8897.4 | 3581.0 | 205.1 | 110.2 |
| 72.5° | 52.0 | 52.0 | 64.3 | 125.5 | 1873.1 | 3593.3 | 4187.0 | 4122.8 | 1163.1 | 67.3 | 39.8 |
| 75° | 18.4 | 21.4 | 21.4 | 27.5 | 113.2 | 186.7 | 428.5 | 306.1 | 73.5 | 0.0 | 0.0 |
| 77.5° | 6.1 | 6.1 | 6.1 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.1 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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-SA5F-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 |
| 2.5° | 4450.3 | 4428.8 | 4349.2 | 4242.1 | 4138.1 | 4046.2 | 3951.4 | 3838.1 | 3755.5 | 3660.6 | 3630.0 |
| 5° | 4946.1 | 4811.4 | 4594.1 | 4367.6 | 4159.5 | 3982.0 | 3810.6 | 3626.9 | 3492.3 | 3357.6 | 3311.7 |
| 7.5° | 5365.4 | 5166.5 | 4814.5 | 4474.7 | 4190.1 | 3939.1 | 3691.2 | 3440.2 | 3244.3 | 3085.2 | 3036.2 |
| 10° | 5741.9 | 5512.3 | 5041.0 | 4621.7 | 4263.5 | 3972.8 | 3672.8 | 3357.6 | 3103.5 | 2913.8 | 2867.9 |
| 12.5° | 6066.3 | 5800.0 | 5233.8 | 4731.8 | 4294.2 | 3960.5 | 3669.8 | 3418.8 | 3189.2 | 2971.9 | 2913.8 |
| 15° | 6338.7 | 6044.9 | 5396.0 | 4805.3 | 4248.2 | 3807.5 | 3553.5 | 3513.7 | 3495.3 | 3256.6 | 3143.3 |
| 17.5° | 6605.0 | 6274.4 | 5527.6 | 4839.0 | 4119.7 | 3538.2 | 3354.5 | 3535.1 | 3727.9 | 3571.8 | 3428.0 |
| 20° | 6883.5 | 6507.0 | 5662.3 | 4845.1 | 3905.4 | 3235.2 | 3204.5 | 3489.2 | 3734.0 | 3685.1 | 3550.4 |
| 22.5° | 7211.0 | 6797.8 | 5830.6 | 4842.0 | 3636.1 | 2978.1 | 3094.4 | 3400.4 | 3599.4 | 3596.3 | 3489.2 |
| 25° | 7685.4 | 7165.1 | 6057.1 | 4860.4 | 3342.3 | 2779.1 | 2971.9 | 3250.5 | 3412.7 | 3406.6 | 3317.8 |
| 27.5° | 8193.5 | 7602.8 | 6350.9 | 4906.3 | 3091.3 | 2662.8 | 2828.1 | 3045.4 | 3186.2 | 3180.1 | 3103.5 |
| 30° | 8906.6 | 8107.8 | 6632.5 | 4909.4 | 2910.7 | 2601.6 | 2668.9 | 2818.9 | 2953.6 | 2938.3 | 2880.1 |
| 32.5° | 9772.8 | 8677.1 | 6868.2 | 4734.9 | 2797.5 | 2543.4 | 2503.6 | 2580.2 | 2684.2 | 2662.8 | 2647.5 |
| 35° | 10819.6 | 9353.5 | 7070.2 | 4352.3 | 2623.0 | 2427.1 | 2320.0 | 2335.3 | 2408.8 | 2421.0 | 2414.9 |
| 37.5° | 12013.2 | 10158.4 | 7321.2 | 3847.3 | 2387.3 | 2258.8 | 2114.9 | 2102.7 | 2145.5 | 2185.3 | 2215.9 |
| 40° | 13191.6 | 11064.4 | 7660.9 | 3336.2 | 2173.1 | 2044.5 | 1906.8 | 1876.2 | 1894.6 | 1965.0 | 2029.2 |
| 42.5° | 14516.9 | 12114.2 | 8028.2 | 2898.5 | 2026.2 | 1808.9 | 1677.3 | 1619.1 | 1671.1 | 1784.4 | 1860.9 |
| 45° | 16426.8 | 13586.4 | 8386.3 | 2549.6 | 1965.0 | 1600.7 | 1423.2 | 1417.1 | 1475.3 | 1622.2 | 1707.9 |
| 47.5° | 19107.9 | 15490.2 | 8622.0 | 2277.2 | 1961.9 | 1438.5 | 1227.3 | 1264.1 | 1331.4 | 1475.3 | 1573.2 |
| 50° | 21721.8 | 17874.5 | 8361.8 | 2069.0 | 1897.6 | 1331.4 | 1080.4 | 1153.9 | 1221.2 | 1346.7 | 1447.7 |
| 52.5° | 23298.0 | 19156.9 | 7348.7 | 1873.1 | 1698.7 | 1282.4 | 936.6 | 1065.1 | 1077.4 | 1190.6 | 1297.7 |
| 55° | 23132.7 | 18327.4 | 5628.6 | 1570.1 | 1404.9 | 1212.0 | 786.6 | 961.1 | 967.2 | 1052.9 | 1144.7 |
| 57.5° | 20078.2 | 15735.0 | 3865.7 | 1273.2 | 1055.9 | 1000.8 | 648.9 | 811.1 | 869.2 | 921.3 | 988.6 |
| 60° | 14963.7 | 11480.7 | 1723.2 | 1034.5 | 670.3 | 676.4 | 554.0 | 612.1 | 700.9 | 762.1 | 820.3 |
| 62.5° | 8817.9 | 6605.0 | 700.9 | 621.3 | 370.3 | 425.4 | 446.9 | 446.9 | 502.0 | 547.9 | 584.6 |
| 65° | 3333.1 | 2310.8 | 284.6 | 312.2 | 192.8 | 198.9 | 263.2 | 324.4 | 367.3 | 407.1 | 456.0 |
| 67.5° | 584.6 | 404.0 | 146.9 | 116.3 | 113.2 | 101.0 | 134.7 | 211.2 | 235.7 | 266.3 | 287.7 |
| 70° | 97.9 | 82.6 | 61.2 | 58.2 | 52.0 | 55.1 | 88.8 | 150.0 | 165.3 | 174.5 | 183.6 |
| 72.5° | 27.5 | 24.5 | 18.4 | 15.3 | 12.2 | 15.3 | 55.1 | 116.3 | 122.4 | 128.5 | 137.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.4 | 82.6 | 88.8 | 91.8 | 101.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.4 | 24.5 | 30.6 | 24.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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-SA5F-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 |
| 2.5° | 3611.6 | 3550.4 | 3516.7 | 3498.4 | 3498.4 | 3473.9 | 3446.3 | 3437.2 | 3477.0 | 3477.0 | 3544.3 |
| 5° | 3253.5 | 3204.5 | 3149.5 | 3115.8 | 3063.8 | 3072.9 | 3042.3 | 3039.3 | 3079.1 | 3097.4 | 3167.8 |
| 7.5° | 3005.6 | 2944.4 | 2910.7 | 2889.3 | 2861.8 | 2849.5 | 2822.0 | 2812.8 | 2834.2 | 2864.8 | 2932.1 |
| 10° | 2840.3 | 2831.1 | 2828.1 | 2843.4 | 2843.4 | 2828.1 | 2803.6 | 2788.3 | 2794.4 | 2852.6 | 2929.1 |
| 12.5° | 2883.2 | 2901.5 | 2907.7 | 2932.1 | 2944.4 | 2932.1 | 2913.8 | 2919.9 | 2959.7 | 3066.8 | 3180.1 |
| 15° | 3069.9 | 3054.6 | 3048.5 | 3060.7 | 3069.9 | 3057.6 | 3051.5 | 3097.4 | 3235.2 | 3388.2 | 3516.7 |
| 17.5° | 3268.8 | 3170.9 | 3128.0 | 3128.0 | 3134.2 | 3128.0 | 3134.2 | 3222.9 | 3446.3 | 3599.4 | 3694.3 |
| 20° | 3369.8 | 3189.2 | 3121.9 | 3106.6 | 3118.8 | 3121.9 | 3143.3 | 3244.3 | 3489.2 | 3596.3 | 3617.7 |
| 22.5° | 3339.2 | 3112.7 | 3036.2 | 3024.0 | 3036.2 | 3048.5 | 3069.9 | 3155.6 | 3385.1 | 3440.2 | 3431.0 |
| 25° | 3186.2 | 2962.8 | 2901.5 | 2901.5 | 2929.1 | 2926.0 | 2935.2 | 2996.4 | 3186.2 | 3219.9 | 3204.5 |
| 27.5° | 2993.4 | 2782.2 | 2730.1 | 2760.7 | 2785.2 | 2779.1 | 2782.2 | 2834.2 | 2975.0 | 2984.2 | 2968.9 |
| 30° | 2797.5 | 2613.8 | 2564.9 | 2601.6 | 2635.3 | 2629.1 | 2632.2 | 2684.2 | 2773.0 | 2763.8 | 2742.4 |
| 32.5° | 2598.5 | 2463.9 | 2427.1 | 2448.6 | 2500.6 | 2494.5 | 2506.7 | 2561.8 | 2595.5 | 2555.7 | 2531.2 |
| 35° | 2414.9 | 2344.5 | 2316.9 | 2329.2 | 2369.0 | 2378.2 | 2399.6 | 2436.3 | 2436.3 | 2387.3 | 2344.5 |
| 37.5° | 2243.5 | 2234.3 | 2215.9 | 2200.6 | 2237.4 | 2264.9 | 2295.5 | 2338.4 | 2277.2 | 2206.8 | 2167.0 |
| 40° | 2084.3 | 2124.1 | 2099.6 | 2059.8 | 2081.3 | 2121.1 | 2182.3 | 2215.9 | 2142.5 | 2072.1 | 2004.8 |
| 42.5° | 1937.4 | 2004.8 | 1995.6 | 1946.6 | 1965.0 | 2001.7 | 2072.1 | 2099.6 | 2013.9 | 1934.4 | 1870.1 |
| 45° | 1796.6 | 1891.5 | 1897.6 | 1836.4 | 1854.8 | 1891.5 | 1974.1 | 1983.3 | 1873.1 | 1787.4 | 1741.5 |
| 47.5° | 1674.2 | 1778.3 | 1781.3 | 1735.4 | 1741.5 | 1793.6 | 1870.1 | 1873.1 | 1747.7 | 1668.1 | 1609.9 |
| 50° | 1557.9 | 1677.3 | 1686.4 | 1646.7 | 1652.8 | 1714.0 | 1778.3 | 1766.0 | 1631.4 | 1548.7 | 1496.7 |
| 52.5° | 1417.1 | 1579.3 | 1600.7 | 1582.4 | 1606.9 | 1655.8 | 1695.6 | 1652.8 | 1496.7 | 1414.0 | 1368.1 |
| 55° | 1264.1 | 1475.3 | 1521.2 | 1508.9 | 1536.5 | 1576.3 | 1585.4 | 1557.9 | 1362.0 | 1279.4 | 1236.5 |
| 57.5° | 1086.5 | 1215.1 | 1294.7 | 1270.2 | 1291.6 | 1331.4 | 1358.9 | 1337.5 | 1190.6 | 1126.3 | 1089.6 |
| 60° | 899.8 | 985.5 | 1003.9 | 964.1 | 945.8 | 1016.2 | 1080.4 | 1052.9 | 927.4 | 887.6 | 844.8 |
| 62.5° | 658.0 | 756.0 | 768.2 | 716.2 | 694.8 | 771.3 | 826.4 | 798.8 | 661.1 | 618.3 | 584.6 |
| 65° | 526.4 | 618.3 | 642.7 | 593.8 | 581.5 | 639.7 | 673.4 | 606.0 | 508.1 | 462.2 | 425.4 |
| 67.5° | 345.9 | 419.3 | 483.6 | 480.5 | 456.0 | 474.4 | 449.9 | 394.8 | 324.4 | 299.9 | 275.5 |
| 70° | 214.2 | 257.1 | 296.9 | 312.2 | 309.1 | 303.0 | 269.3 | 229.6 | 208.1 | 198.9 | 186.7 |
| 72.5° | 165.3 | 208.1 | 238.7 | 247.9 | 251.0 | 241.8 | 214.2 | 177.5 | 156.1 | 143.9 | 134.7 |
| 75° | 122.4 | 156.1 | 180.6 | 192.8 | 198.9 | 192.8 | 165.3 | 140.8 | 119.4 | 110.2 | 101.0 |
| 77.5° | 42.8 | 52.0 | 64.3 | 70.4 | 67.3 | 64.3 | 58.2 | 58.2 | 45.9 | 42.8 | 36.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 |
| 2.5° | 3620.8 | 3675.9 | 3776.9 | 3868.7 | 3966.7 | 4067.7 | 4177.8 | 4291.1 | 4343.1 | 4337.0 |
| 5° | 3274.9 | 3394.3 | 3559.6 | 3740.2 | 3942.2 | 4159.5 | 4401.3 | 4649.2 | 4756.3 | 4802.2 |
| 7.5° | 3057.6 | 3226.0 | 3443.3 | 3672.8 | 3939.1 | 4248.2 | 4612.5 | 5001.2 | 5157.3 | 5209.3 |
| 10° | 3085.2 | 3281.1 | 3461.6 | 3685.1 | 3969.7 | 4370.7 | 4823.7 | 5285.8 | 5469.5 | 5527.6 |
| 12.5° | 3308.6 | 3351.5 | 3400.4 | 3584.1 | 3942.2 | 4462.5 | 5016.5 | 5567.4 | 5778.6 | 5836.7 |
| 15° | 3510.6 | 3311.7 | 3219.9 | 3388.2 | 3844.2 | 4526.8 | 5212.4 | 5870.4 | 6103.0 | 6170.4 |
| 17.5° | 3519.8 | 3219.9 | 3014.8 | 3146.4 | 3685.1 | 4554.3 | 5405.2 | 6179.5 | 6433.6 | 6497.9 |
| 20° | 3406.6 | 3118.8 | 2855.6 | 2858.7 | 3467.8 | 4548.2 | 5564.3 | 6458.1 | 6742.7 | 6800.9 |
| 22.5° | 3241.3 | 2999.5 | 2727.1 | 2632.2 | 3235.2 | 4536.0 | 5738.8 | 6755.0 | 7064.1 | 7119.2 |
| 25° | 3057.6 | 2846.4 | 2604.7 | 2460.8 | 3002.5 | 4548.2 | 5983.7 | 7143.7 | 7483.4 | 7535.4 |
| 27.5° | 2858.7 | 2678.1 | 2509.8 | 2393.5 | 2806.7 | 4594.1 | 6277.5 | 7639.5 | 8043.5 | 8098.6 |
| 30° | 2650.6 | 2515.9 | 2448.6 | 2378.2 | 2684.2 | 4606.3 | 6595.8 | 8218.0 | 8729.1 | 8805.6 |
| 32.5° | 2445.5 | 2372.0 | 2375.1 | 2387.3 | 2567.9 | 4520.6 | 6886.6 | 8860.7 | 9543.2 | 9665.7 |
| 35° | 2255.7 | 2234.3 | 2295.5 | 2356.7 | 2399.6 | 4300.3 | 7140.6 | 9619.8 | 10550.2 | 10675.7 |
| 37.5° | 2093.5 | 2111.9 | 2188.4 | 2249.6 | 2215.9 | 3988.1 | 7477.3 | 10568.6 | 11676.6 | 11783.7 |
| 40° | 1937.4 | 1983.3 | 2072.1 | 2099.6 | 2075.2 | 3623.9 | 7881.3 | 11483.7 | 12652.9 | 12799.8 |
| 42.5° | 1793.6 | 1827.2 | 1952.7 | 1958.8 | 2035.4 | 3253.5 | 8270.0 | 12469.3 | 13776.2 | 13852.7 |
| 45° | 1677.3 | 1671.1 | 1799.7 | 1839.5 | 2087.4 | 2843.4 | 8649.5 | 13782.3 | 15245.3 | 15355.5 |
| 47.5° | 1564.0 | 1557.9 | 1588.5 | 1769.1 | 2108.8 | 2463.9 | 9026.0 | 15704.4 | 17375.6 | 17565.3 |
| 50° | 1456.9 | 1466.1 | 1371.2 | 1735.4 | 1992.5 | 2173.1 | 9197.4 | 17482.7 | 19313.0 | 19392.6 |
| 52.5° | 1362.0 | 1328.3 | 1163.1 | 1625.2 | 1744.6 | 1897.6 | 8710.7 | 18290.7 | 20512.8 | 20739.3 |
| 55° | 1227.3 | 1040.6 | 958.0 | 1319.2 | 1377.3 | 1655.8 | 7134.5 | 17822.4 | 20616.8 | 21017.8 |
| 57.5° | 1049.8 | 817.2 | 814.1 | 973.3 | 973.3 | 1536.5 | 4569.6 | 15227.0 | 17767.3 | 18471.3 |
| 60° | 808.0 | 633.6 | 673.4 | 676.4 | 624.4 | 1120.2 | 2564.9 | 11030.7 | 13136.5 | 13837.4 |
| 62.5° | 575.4 | 483.6 | 508.1 | 404.0 | 358.1 | 560.1 | 1230.4 | 6350.9 | 8107.8 | 8205.7 |
| 65° | 385.6 | 327.5 | 266.3 | 223.4 | 220.4 | 238.7 | 508.1 | 2295.5 | 2791.4 | 3149.5 |
| 67.5° | 254.0 | 198.9 | 140.8 | 140.8 | 159.2 | 159.2 | 192.8 | 379.5 | 532.6 | 486.7 |
| 70° | 165.3 | 137.7 | 88.8 | 85.7 | 104.1 | 104.1 | 97.9 | 104.1 | 110.2 | 110.2 |
| 72.5° | 122.4 | 104.1 | 52.0 | 45.9 | 58.2 | 61.2 | 55.1 | 52.0 | 52.0 | 52.0 |
| 75° | 91.8 | 73.5 | 30.6 | 21.4 | 27.5 | 36.7 | 30.6 | 21.4 | 21.4 | 18.4 |
| 77.5° | 36.7 | 27.5 | 12.2 | 9.2 | 15.3 | 21.4 | 18.4 | 9.2 | 6.1 | 6.1 |
| 80° | 3.1 | 6.1 | 6.1 | 6.1 | 9.2 | 12.2 | 15.3 | 6.1 | 3.1 | 3.1 |
| 82.5° | 0.0 | 3.1 | 3.1 | 3.1 | 6.1 | 9.2 | 12.2 | 6.1 | 3.1 | 3.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 9.2 | 6.1 | 3.1 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 9.2 | 6.1 | 3.1 | 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)