

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: P641285

Luminaire Tested: GWS-SA5F-750-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33232.8 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

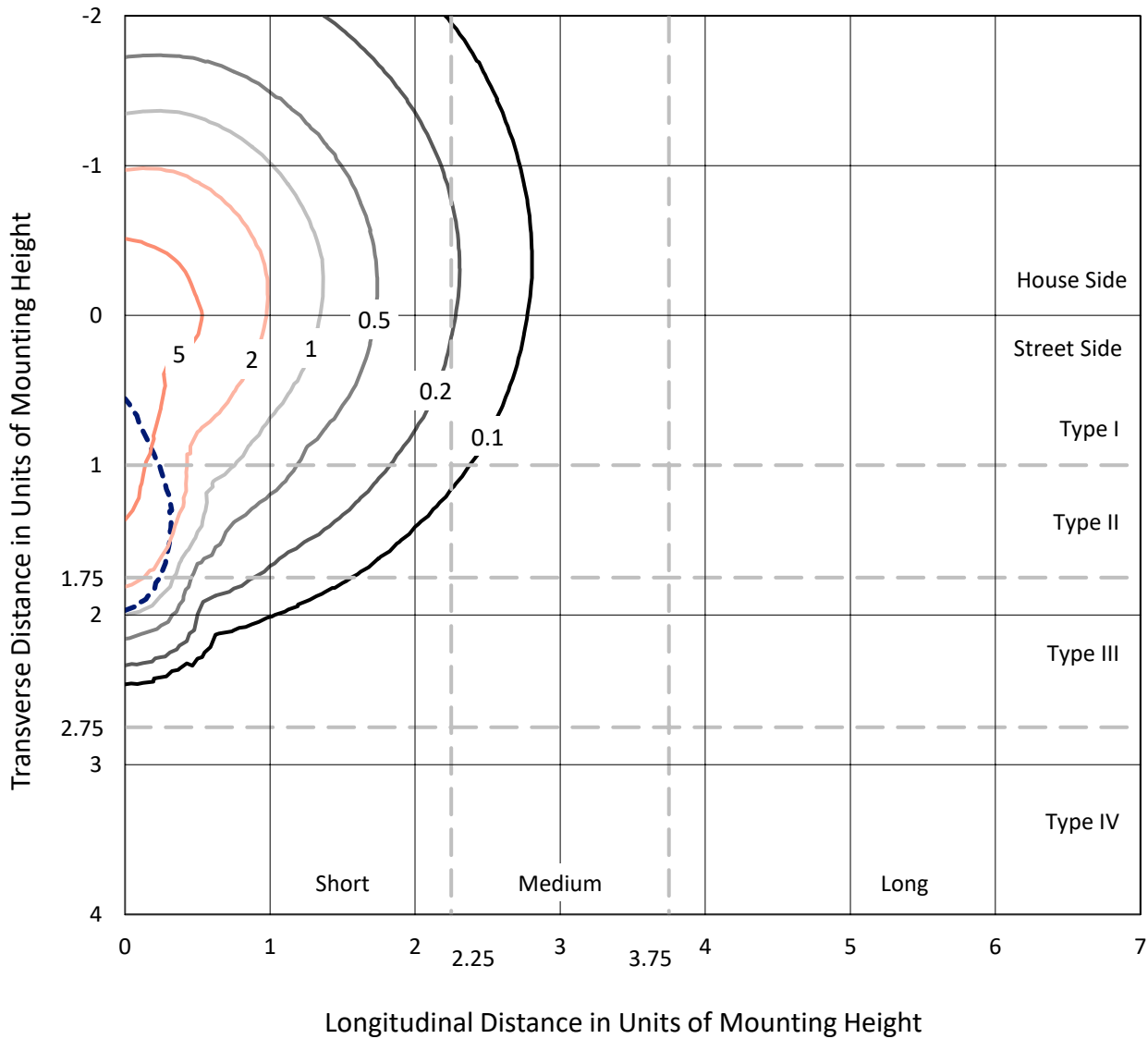
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

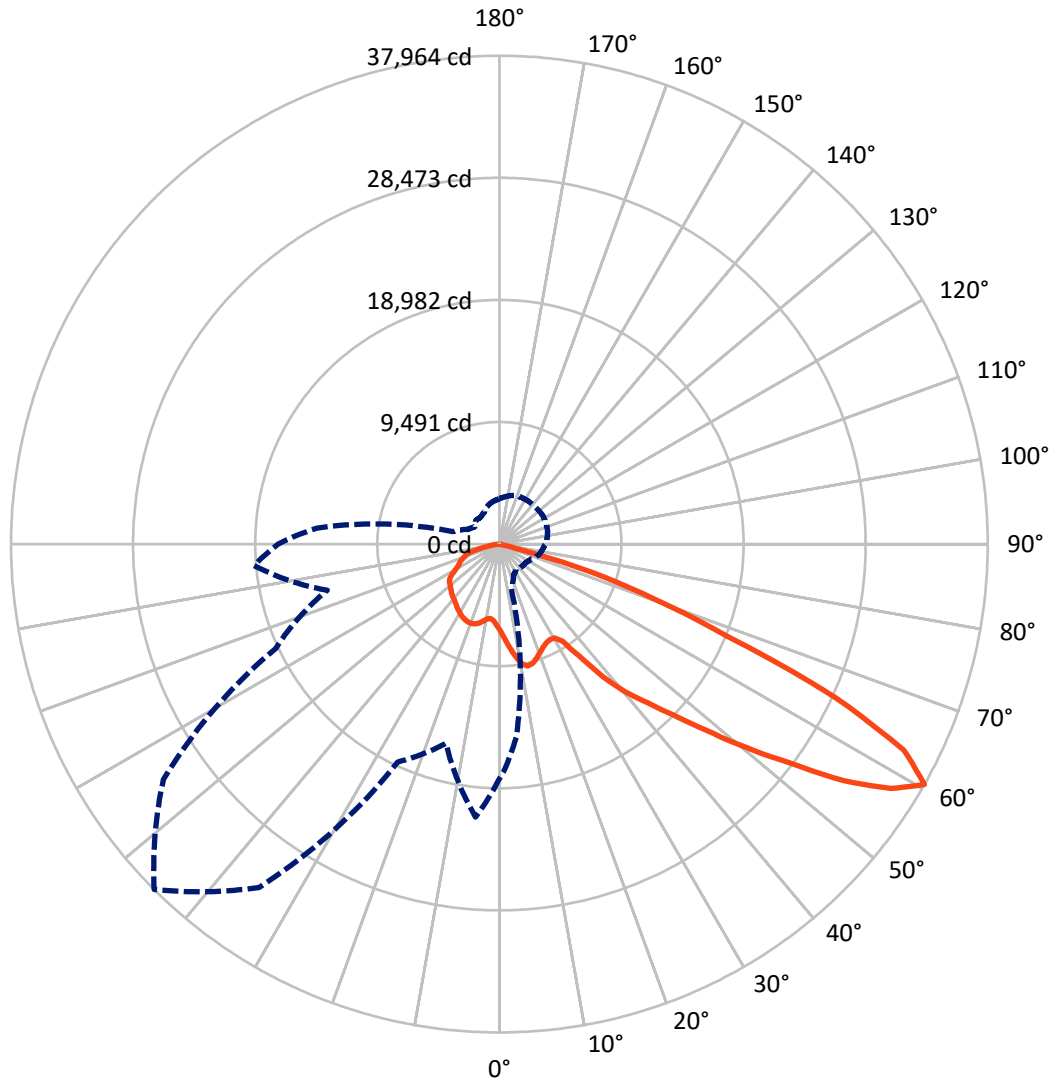
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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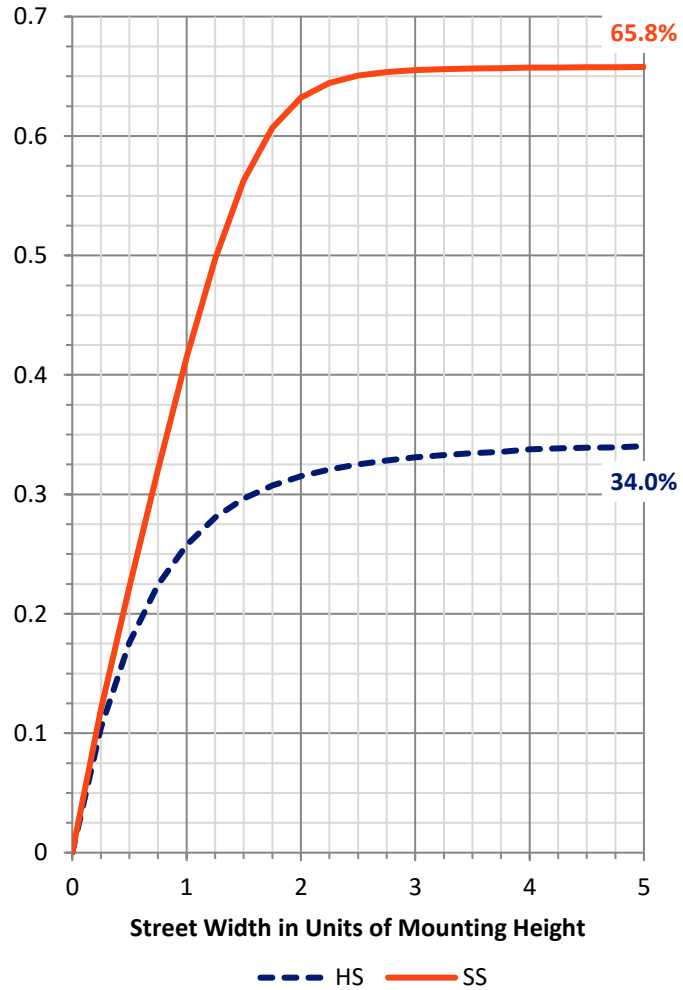
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11368.6 | 0.0 | 11368.6 |
| | % Fixture | 34.2 | 0.0 | 34.2 |
| Street Side | Lumens | 21864.2 | 0.0 | 21864.2 |
| | % Fixture | 65.8 | 0.0 | 65.8 |
| Total | Lumens | 33232.8 | 0.0 | 33232.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 654.9 | 2.0 |
| 10°-20° | 2100.4 | 6.3 |
| 20°-30° | 3420.7 | 10.3 |
| 30°-40° | 4805.4 | 14.5 |
| 40°-50° | 6575.7 | 19.8 |
| 50°-60° | 8436.3 | 25.4 |
| 60°-70° | 5680.7 | 17.1 |
| 70°-80° | 1420.2 | 4.3 |
| 80°-90° | 138.4 | 0.4 |
| 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° | 33232.8 | 100.0 |
| 0°-180° | 33232.8 | 100.0 |

Coefficient of Utilization



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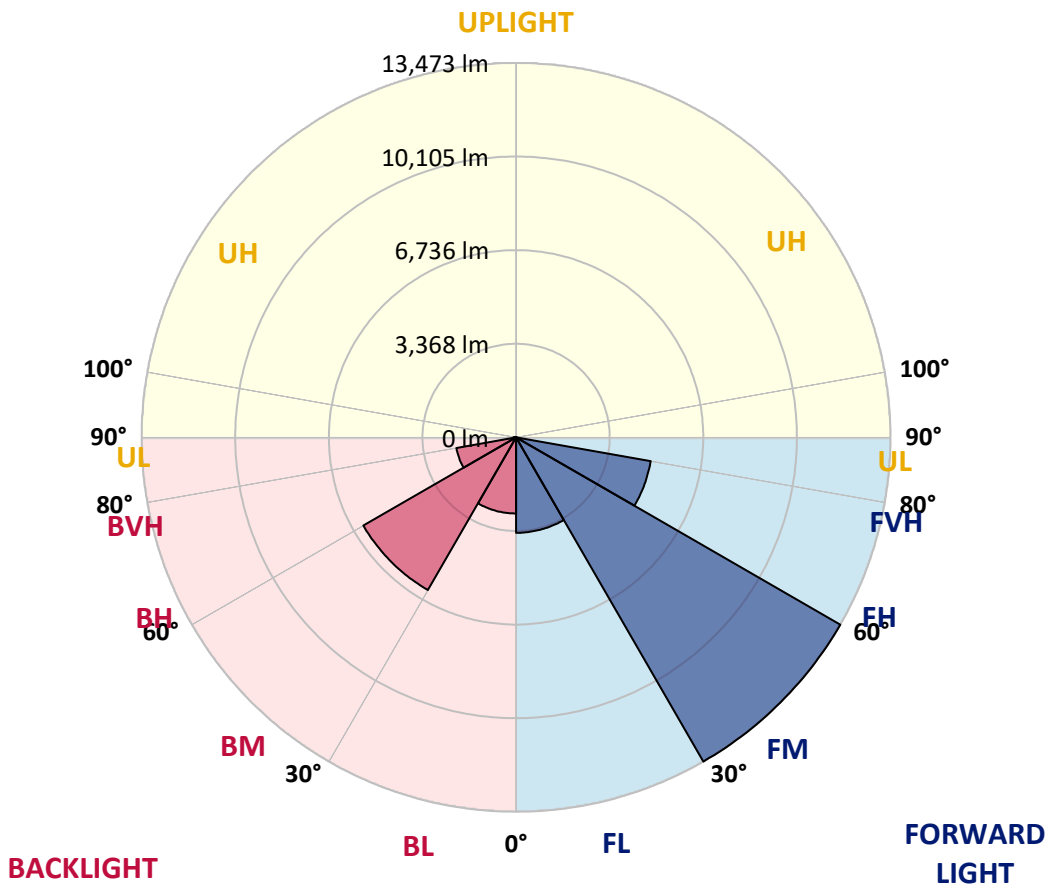
CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3435.5 | 10.3 | | | |
| FM (30°-60°) | 13472.8 | 40.5 | | | |
| FH (60°-80°) | 4919.8 | 14.8 | | | G2/5000 |
| FVH (80°-90°) | 36.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2740.5 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 6344.6 | 19.1 | B4/8500 | | |
| BH (60°-80°) | 2181.0 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 102.5 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 |
| 2.5° | 7091.4 | 7076.1 | 7060.8 | 6941.4 | 6910.8 | 6825.1 | 6763.9 | 6687.4 | 6577.2 | 6516.0 | 6464.0 |
| 5° | 7535.2 | 7510.7 | 7428.1 | 7183.2 | 7024.1 | 6849.6 | 6705.8 | 6546.6 | 6378.3 | 6268.1 | 6182.4 |
| 7.5° | 7954.5 | 7948.4 | 7807.6 | 7403.6 | 7146.5 | 6895.5 | 6699.6 | 6467.0 | 6225.2 | 6060.0 | 5949.8 |
| 10° | 8343.2 | 8297.3 | 8128.9 | 7602.5 | 7265.9 | 6978.2 | 6767.0 | 6509.9 | 6228.3 | 6004.9 | 5858.0 |
| 12.5° | 8686.0 | 8627.8 | 8395.2 | 7786.2 | 7369.9 | 7014.9 | 6785.3 | 6574.2 | 6387.5 | 6200.8 | 6032.4 |
| 15° | 8967.5 | 8897.1 | 8661.5 | 7957.5 | 7461.7 | 6993.5 | 6672.1 | 6506.8 | 6571.1 | 6653.7 | 6467.0 |
| 17.5° | 9230.8 | 9157.3 | 8869.6 | 8083.0 | 7489.3 | 6861.9 | 6393.6 | 6323.2 | 6647.6 | 7024.1 | 6938.4 |
| 20° | 9451.1 | 9368.5 | 9034.9 | 8144.2 | 7440.3 | 6610.9 | 6032.4 | 6154.9 | 6583.3 | 7033.2 | 7171.0 |
| 22.5° | 9689.8 | 9622.5 | 9221.6 | 8233.0 | 7379.1 | 6265.0 | 5729.4 | 6029.4 | 6473.2 | 6868.0 | 7076.1 |
| 25° | 10072.4 | 9989.8 | 9512.3 | 8389.1 | 7348.5 | 5940.6 | 5512.1 | 5906.9 | 6320.1 | 6678.2 | 6840.4 |
| 27.5° | 10626.4 | 10473.4 | 9910.2 | 8661.5 | 7382.2 | 5634.6 | 5374.4 | 5757.0 | 6142.6 | 6448.7 | 6580.3 |
| 30° | 11229.3 | 11045.7 | 10350.9 | 8943.1 | 7431.1 | 5447.9 | 5301.0 | 5585.6 | 5870.2 | 6176.3 | 6320.1 |
| 32.5° | 11942.4 | 11780.2 | 10822.3 | 9154.2 | 7327.1 | 5362.2 | 5245.9 | 5398.9 | 5625.4 | 5870.2 | 5989.6 |
| 35° | 12793.3 | 12502.5 | 11336.4 | 9325.6 | 6990.4 | 5236.7 | 5196.9 | 5193.8 | 5313.2 | 5551.9 | 5686.6 |
| 37.5° | 13708.4 | 13396.2 | 11970.0 | 9509.3 | 6467.0 | 5037.7 | 5080.6 | 4952.0 | 5062.2 | 5252.0 | 5405.0 |
| 40° | 14458.2 | 14130.8 | 12609.7 | 9760.2 | 5812.1 | 4725.6 | 4823.5 | 4685.8 | 4753.1 | 4949.0 | 5120.4 |
| 42.5° | 15192.8 | 14843.9 | 13206.5 | 10044.9 | 5178.5 | 4419.5 | 4468.5 | 4416.4 | 4437.9 | 4642.9 | 4881.6 |
| 45° | 16156.9 | 15765.1 | 13941.0 | 10246.9 | 4609.3 | 4177.7 | 4131.8 | 4043.0 | 4156.3 | 4422.6 | 4676.6 |
| 47.5° | 17766.8 | 17298.5 | 15143.8 | 10378.5 | 4196.1 | 4040.0 | 3828.8 | 3776.8 | 3917.6 | 4214.4 | 4477.7 |
| 50° | 19649.0 | 19245.0 | 17065.9 | 10372.4 | 3887.0 | 3923.7 | 3535.0 | 3489.1 | 3721.7 | 4021.6 | 4300.1 |
| 52.5° | 21191.6 | 20781.4 | 18709.4 | 10066.3 | 3632.9 | 3675.8 | 3363.6 | 3235.0 | 3553.4 | 3831.9 | 4110.4 |
| 55° | 22437.2 | 21975.1 | 19465.4 | 8787.0 | 3311.6 | 3281.0 | 3176.9 | 2941.2 | 3342.2 | 3642.1 | 3902.3 |
| 57.5° | 21766.9 | 21216.0 | 18550.3 | 6681.3 | 2981.0 | 2788.2 | 2855.5 | 2681.1 | 3054.5 | 3430.9 | 3681.9 |
| 60° | 18250.3 | 17754.5 | 15070.4 | 3556.4 | 2622.9 | 2329.1 | 2469.9 | 2497.4 | 2739.2 | 3176.9 | 3434.0 |
| 62.5° | 12536.2 | 12175.0 | 10213.2 | 2157.7 | 2069.0 | 1870.0 | 2090.4 | 2289.3 | 2469.9 | 2840.2 | 3063.7 |
| 65° | 6133.4 | 6026.3 | 5108.1 | 1383.4 | 1447.7 | 1511.9 | 1732.3 | 1974.1 | 2240.4 | 2564.8 | 2800.4 |
| 67.5° | 1689.4 | 1701.7 | 1548.7 | 1080.4 | 1141.6 | 1319.1 | 1493.6 | 1686.4 | 1952.7 | 2252.6 | 2491.3 |
| 70° | 743.7 | 756.0 | 780.5 | 832.5 | 948.8 | 1111.0 | 1291.6 | 1490.5 | 1735.4 | 1986.3 | 2215.9 |
| 72.5° | 517.2 | 529.5 | 566.2 | 633.5 | 737.6 | 890.6 | 1062.0 | 1251.8 | 1505.8 | 1717.0 | 1906.8 |
| 75° | 318.3 | 327.5 | 361.2 | 419.3 | 489.7 | 606.0 | 774.3 | 948.8 | 1172.2 | 1365.0 | 1533.4 |
| 77.5° | 168.3 | 162.2 | 183.6 | 223.4 | 284.6 | 345.8 | 459.1 | 569.3 | 728.4 | 884.5 | 1025.3 |
| 80° | 91.8 | 88.8 | 101.0 | 122.4 | 140.8 | 189.8 | 266.3 | 339.7 | 431.5 | 520.3 | 596.8 |
| 82.5° | 39.8 | 36.7 | 39.8 | 52.0 | 64.3 | 91.8 | 134.7 | 186.7 | 238.7 | 299.9 | 348.9 |
| 85° | 0.0 | 0.0 | 0.0 | 3.1 | 15.3 | 24.5 | 45.9 | 67.3 | 97.9 | 134.7 | 165.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 27.5 |
| 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-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 |
| 2.5° | 6433.4 | 6356.9 | 6350.7 | 6289.5 | 6295.6 | 6298.7 | 6237.5 | 6213.0 | 6234.4 | 6258.9 | 6246.7 |
| 5° | 6151.8 | 6072.2 | 6038.6 | 5980.4 | 5974.3 | 5946.7 | 5922.3 | 5891.6 | 5913.1 | 5934.5 | 5946.7 |
| 7.5° | 5906.9 | 5854.9 | 5833.5 | 5818.2 | 5824.3 | 5812.1 | 5763.1 | 5735.6 | 5732.5 | 5741.7 | 5753.9 |
| 10° | 5827.4 | 5784.5 | 5812.1 | 5854.9 | 5885.5 | 5906.9 | 5854.9 | 5809.0 | 5766.2 | 5747.8 | 5747.8 |
| 12.5° | 5998.8 | 5943.7 | 5998.8 | 6044.7 | 6105.9 | 6121.2 | 6063.0 | 6014.1 | 5998.8 | 6017.1 | 6053.9 |
| 15° | 6378.3 | 6249.7 | 6246.7 | 6274.2 | 6323.2 | 6347.7 | 6292.6 | 6268.1 | 6268.1 | 6384.4 | 6476.2 |
| 17.5° | 6757.8 | 6546.6 | 6457.9 | 6442.6 | 6473.2 | 6482.3 | 6436.4 | 6415.0 | 6470.1 | 6696.6 | 6868.0 |
| 20° | 7024.1 | 6767.0 | 6574.2 | 6537.4 | 6546.6 | 6549.7 | 6512.9 | 6497.6 | 6577.2 | 6852.7 | 6996.5 |
| 22.5° | 6996.5 | 6806.8 | 6571.1 | 6525.2 | 6540.5 | 6534.4 | 6500.7 | 6494.6 | 6558.9 | 6797.6 | 6864.9 |
| 25° | 6806.8 | 6659.9 | 6460.9 | 6430.3 | 6454.8 | 6451.7 | 6418.1 | 6402.8 | 6430.3 | 6589.5 | 6595.6 |
| 27.5° | 6589.5 | 6460.9 | 6289.5 | 6280.3 | 6320.1 | 6341.6 | 6283.4 | 6237.5 | 6228.3 | 6335.4 | 6310.9 |
| 30° | 6329.3 | 6234.4 | 6096.7 | 6102.8 | 6176.3 | 6188.5 | 6118.1 | 6050.8 | 6032.4 | 6090.6 | 6056.9 |
| 32.5° | 6020.2 | 5989.6 | 5916.1 | 5931.4 | 6001.8 | 6026.3 | 5952.9 | 5882.5 | 5861.0 | 5879.4 | 5809.0 |
| 35° | 5757.0 | 5744.7 | 5750.9 | 5778.4 | 5839.6 | 5858.0 | 5796.8 | 5741.7 | 5711.1 | 5646.8 | 5555.0 |
| 37.5° | 5484.6 | 5518.3 | 5607.0 | 5659.0 | 5692.7 | 5686.6 | 5652.9 | 5613.1 | 5564.2 | 5444.8 | 5331.6 |
| 40° | 5230.6 | 5316.3 | 5475.4 | 5533.6 | 5545.8 | 5548.9 | 5524.4 | 5490.7 | 5429.5 | 5270.3 | 5141.8 |
| 42.5° | 5034.7 | 5129.6 | 5340.7 | 5429.5 | 5435.6 | 5441.7 | 5417.3 | 5389.7 | 5304.0 | 5092.8 | 4967.3 |
| 45° | 4829.6 | 4955.1 | 5203.0 | 5310.1 | 5304.0 | 5301.0 | 5279.5 | 5267.3 | 5166.3 | 4921.4 | 4783.7 |
| 47.5° | 4655.2 | 4802.1 | 5068.3 | 5160.2 | 5157.1 | 5154.0 | 5138.7 | 5138.7 | 5037.7 | 4771.5 | 4615.4 |
| 50° | 4483.8 | 4652.1 | 4930.6 | 5007.1 | 5013.3 | 5007.1 | 5001.0 | 5010.2 | 4890.8 | 4606.2 | 4453.2 |
| 52.5° | 4297.1 | 4486.8 | 4777.6 | 4848.0 | 4884.7 | 4900.0 | 4900.0 | 4878.6 | 4737.8 | 4440.9 | 4272.6 |
| 55° | 4092.0 | 4272.6 | 4609.3 | 4704.1 | 4734.7 | 4762.3 | 4762.3 | 4719.4 | 4587.8 | 4287.9 | 4107.3 |
| 57.5° | 3838.0 | 3997.1 | 4263.4 | 4358.3 | 4431.7 | 4450.1 | 4450.1 | 4379.7 | 4272.6 | 3984.9 | 3838.0 |
| 60° | 3562.5 | 3700.3 | 3880.8 | 3981.8 | 4036.9 | 4000.2 | 4027.7 | 4009.4 | 3923.7 | 3657.4 | 3535.0 |
| 62.5° | 3195.3 | 3336.0 | 3535.0 | 3639.0 | 3663.5 | 3626.8 | 3663.5 | 3660.5 | 3544.2 | 3305.4 | 3158.5 |
| 65° | 2932.0 | 3069.8 | 3265.7 | 3400.3 | 3440.1 | 3430.9 | 3455.4 | 3418.7 | 3274.8 | 3048.4 | 2907.6 |
| 67.5° | 2619.9 | 2766.8 | 2993.3 | 3143.2 | 3225.9 | 3235.0 | 3268.7 | 3192.2 | 3045.3 | 2797.4 | 2619.9 |
| 70° | 2323.0 | 2448.5 | 2622.9 | 2763.7 | 2880.0 | 2938.2 | 2944.3 | 2834.1 | 2650.5 | 2445.4 | 2316.9 |
| 72.5° | 2010.8 | 2139.4 | 2350.5 | 2503.6 | 2650.5 | 2717.8 | 2717.8 | 2583.1 | 2384.2 | 2157.7 | 2020.0 |
| 75° | 1631.3 | 1750.7 | 1943.5 | 2108.7 | 2277.1 | 2362.8 | 2359.7 | 2243.4 | 2023.1 | 1808.8 | 1665.0 |
| 77.5° | 1104.9 | 1193.6 | 1316.1 | 1441.5 | 1466.0 | 1533.4 | 1567.0 | 1420.1 | 1297.7 | 1181.4 | 1052.8 |
| 80° | 642.7 | 697.8 | 765.1 | 835.5 | 850.8 | 872.3 | 817.2 | 762.1 | 697.8 | 621.3 | 563.1 |
| 82.5° | 376.5 | 413.2 | 446.8 | 501.9 | 511.1 | 517.2 | 468.3 | 443.8 | 391.8 | 345.8 | 309.1 |
| 85° | 183.6 | 195.9 | 226.5 | 254.0 | 241.8 | 235.7 | 214.2 | 189.8 | 168.3 | 150.0 | 131.6 |
| 87.5° | 36.7 | 36.7 | 55.1 | 52.0 | 42.8 | 36.7 | 21.4 | 27.5 | 6.1 | 6.1 | 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-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 |
| 2.5° | 6286.5 | 6338.5 | 6402.8 | 6488.5 | 6586.4 | 6690.5 | 6791.5 | 6868.0 | 6944.5 | 7057.7 | 7039.4 |
| 5° | 5965.1 | 6053.9 | 6154.9 | 6286.5 | 6445.6 | 6626.2 | 6828.2 | 7030.2 | 7247.5 | 7431.1 | 7510.7 |
| 7.5° | 5778.4 | 5876.3 | 5995.7 | 6167.1 | 6372.2 | 6592.5 | 6877.2 | 7204.6 | 7556.6 | 7798.4 | 7948.4 |
| 10° | 5778.4 | 5903.9 | 6060.0 | 6225.2 | 6405.8 | 6632.3 | 6984.3 | 7394.4 | 7847.4 | 8165.7 | 8340.1 |
| 12.5° | 6112.0 | 6237.5 | 6271.2 | 6265.0 | 6366.0 | 6617.0 | 7070.0 | 7593.3 | 8135.1 | 8471.7 | 8686.0 |
| 15° | 6632.3 | 6675.2 | 6421.1 | 6188.5 | 6203.8 | 6506.8 | 7109.8 | 7752.5 | 8383.0 | 8787.0 | 9019.6 |
| 17.5° | 6981.2 | 6868.0 | 6415.0 | 6007.9 | 5922.3 | 6320.1 | 7109.8 | 7905.5 | 8646.2 | 9102.2 | 9319.5 |
| 20° | 7008.8 | 6727.2 | 6258.9 | 5833.5 | 5613.1 | 6072.2 | 7060.8 | 8021.8 | 8900.2 | 9405.2 | 9637.8 |
| 22.5° | 6767.0 | 6488.5 | 6093.6 | 5683.5 | 5359.1 | 5772.3 | 6981.2 | 8110.6 | 9117.5 | 9689.8 | 9977.5 |
| 25° | 6491.5 | 6258.9 | 5925.3 | 5530.5 | 5184.6 | 5469.3 | 6907.8 | 8260.5 | 9420.5 | 10075.5 | 10366.2 |
| 27.5° | 6222.2 | 6026.3 | 5723.3 | 5401.9 | 5086.7 | 5206.1 | 6861.9 | 8480.9 | 9781.7 | 10623.3 | 10874.3 |
| 30° | 5959.0 | 5781.5 | 5506.0 | 5279.5 | 5034.7 | 5034.7 | 6822.1 | 8734.9 | 10259.1 | 11238.5 | 11489.5 |
| 32.5° | 5692.7 | 5524.4 | 5301.0 | 5160.2 | 5004.1 | 4967.3 | 6711.9 | 8973.7 | 10751.9 | 11911.8 | 12168.9 |
| 35° | 5444.8 | 5276.5 | 5105.1 | 5046.9 | 4988.8 | 4915.3 | 6439.5 | 9160.4 | 11232.4 | 12698.4 | 12918.8 |
| 37.5° | 5212.2 | 5050.0 | 4921.4 | 4906.1 | 4912.3 | 4774.5 | 6011.0 | 9316.5 | 11832.3 | 13503.3 | 13619.6 |
| 40° | 5010.2 | 4829.6 | 4728.6 | 4725.6 | 4756.2 | 4548.0 | 5469.3 | 9539.9 | 12517.8 | 14185.9 | 14136.9 |
| 42.5° | 4829.6 | 4639.9 | 4517.4 | 4545.0 | 4526.6 | 4321.6 | 4939.8 | 9744.9 | 13114.6 | 14825.5 | 14727.6 |
| 45° | 4652.1 | 4468.5 | 4297.1 | 4336.9 | 4315.4 | 4180.8 | 4489.9 | 9894.9 | 13775.7 | 15593.7 | 15606.0 |
| 47.5° | 4480.7 | 4300.1 | 4128.7 | 4079.8 | 4076.7 | 4137.9 | 4144.0 | 9943.9 | 14853.1 | 16830.2 | 16551.7 |
| 50° | 4321.6 | 4141.0 | 3963.5 | 3798.2 | 3862.5 | 4052.2 | 3887.0 | 9907.1 | 16466.0 | 18195.2 | 17417.8 |
| 52.5° | 4156.3 | 3984.9 | 3789.0 | 3492.1 | 3660.5 | 3847.2 | 3657.4 | 9775.5 | 17451.5 | 19401.1 | 18935.9 |
| 55° | 3966.5 | 3804.3 | 3538.0 | 3176.9 | 3382.0 | 3421.7 | 3421.7 | 8502.3 | 17870.8 | 20594.7 | 20882.4 |
| 57.5° | 3712.5 | 3498.3 | 3075.9 | 2785.1 | 2968.8 | 2815.7 | 3170.8 | 5949.8 | 17179.1 | 20218.3 | 21335.4 |
| 60° | 3424.8 | 3195.3 | 2748.4 | 2540.3 | 2595.4 | 2326.1 | 2702.5 | 3730.9 | 14237.9 | 17203.6 | 19137.9 |
| 62.5° | 3045.3 | 2834.1 | 2463.8 | 2301.6 | 2188.3 | 1897.6 | 2176.1 | 2359.7 | 9760.2 | 12774.9 | 14094.0 |
| 65° | 2791.3 | 2558.7 | 2228.1 | 2013.9 | 1781.3 | 1527.2 | 1444.6 | 1548.7 | 5248.9 | 7149.5 | 8040.2 |
| 67.5° | 2491.3 | 2261.8 | 1949.6 | 1680.3 | 1493.6 | 1309.9 | 1166.1 | 1129.4 | 1799.6 | 2381.1 | 2577.0 |
| 70° | 2206.7 | 1986.3 | 1726.2 | 1475.2 | 1288.5 | 1107.9 | 967.1 | 866.1 | 832.5 | 826.4 | 814.1 |
| 72.5° | 1915.9 | 1710.9 | 1493.6 | 1261.0 | 1055.9 | 890.6 | 765.1 | 648.8 | 599.9 | 584.6 | 569.3 |
| 75° | 1570.1 | 1407.9 | 1190.6 | 939.6 | 774.3 | 621.3 | 523.4 | 446.8 | 404.0 | 388.7 | 370.3 |
| 77.5° | 1010.0 | 936.5 | 746.8 | 606.0 | 468.3 | 370.3 | 318.3 | 269.3 | 241.8 | 235.7 | 220.4 |
| 80° | 538.7 | 501.9 | 413.2 | 348.9 | 278.5 | 226.5 | 198.9 | 171.4 | 156.1 | 150.0 | 143.8 |
| 82.5° | 299.9 | 272.4 | 229.5 | 202.0 | 162.2 | 137.7 | 122.4 | 110.2 | 101.0 | 97.9 | 94.9 |
| 85° | 134.7 | 116.3 | 91.8 | 85.7 | 76.5 | 70.4 | 67.3 | 61.2 | 58.2 | 55.1 | 52.0 |
| 87.5° | 6.1 | 12.2 | 15.3 | 12.2 | 12.2 | 18.4 | 21.4 | 21.4 | 18.4 | 18.4 | 15.3 |
| 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° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 | 6702.7 |
| 2.5° | 7152.6 | 7244.4 | 7253.6 | 7284.2 | 7244.4 | 7235.2 | 7171.0 | 7134.2 | 7100.6 | 7091.4 |
| 5° | 7709.6 | 7893.3 | 7966.7 | 8018.8 | 7969.8 | 7945.3 | 7804.5 | 7657.6 | 7575.0 | 7535.2 |
| 7.5° | 8282.0 | 8557.4 | 8701.3 | 8765.5 | 8771.7 | 8661.5 | 8419.7 | 8144.2 | 8006.5 | 7954.5 |
| 10° | 8793.1 | 9132.8 | 9322.6 | 9445.0 | 9402.1 | 9267.5 | 8936.9 | 8563.5 | 8389.1 | 8343.2 |
| 12.5° | 9172.6 | 9497.0 | 9643.9 | 9723.5 | 9720.4 | 9647.0 | 9334.8 | 8930.8 | 8731.9 | 8686.0 |
| 15° | 9417.5 | 9610.3 | 9619.4 | 9637.8 | 9689.8 | 9787.8 | 9625.6 | 9252.2 | 9031.8 | 8967.5 |
| 17.5° | 9610.3 | 9533.8 | 9389.9 | 9340.9 | 9457.2 | 9729.6 | 9827.6 | 9524.6 | 9285.8 | 9230.8 |
| 20° | 9732.7 | 9347.1 | 9093.0 | 8998.1 | 9132.8 | 9576.6 | 9950.0 | 9769.4 | 9521.5 | 9451.1 |
| 22.5° | 9827.6 | 9172.6 | 8762.5 | 8698.2 | 8839.0 | 9411.3 | 10075.5 | 10060.2 | 9787.8 | 9689.8 |
| 25° | 9977.5 | 9056.3 | 8529.9 | 8484.0 | 8615.6 | 9331.8 | 10243.8 | 10455.0 | 10213.2 | 10072.4 |
| 27.5° | 10213.2 | 9044.1 | 8410.5 | 8395.2 | 8575.8 | 9402.1 | 10485.6 | 11033.4 | 10730.4 | 10626.4 |
| 30° | 10540.7 | 9160.4 | 8438.1 | 8468.7 | 8689.0 | 9656.2 | 10862.1 | 11694.5 | 11391.5 | 11229.3 |
| 32.5° | 11012.0 | 9472.5 | 8857.4 | 8989.0 | 9151.2 | 10063.2 | 11413.0 | 12410.7 | 12181.2 | 11942.4 |
| 35° | 11633.3 | 10329.5 | 10096.9 | 10657.0 | 10504.0 | 10953.9 | 12077.1 | 13279.9 | 13001.4 | 12793.3 |
| 37.5° | 12462.7 | 12086.3 | 12300.5 | 13071.8 | 12701.5 | 12637.2 | 12888.2 | 14069.6 | 13916.5 | 13708.4 |
| 40° | 13625.8 | 13702.3 | 14097.1 | 15110.2 | 14574.6 | 14161.4 | 13882.9 | 14663.3 | 14715.3 | 14458.2 |
| 42.5° | 14397.0 | 14749.0 | 15700.9 | 16851.6 | 16114.0 | 15125.5 | 14715.3 | 15422.3 | 15425.4 | 15192.8 |
| 45° | 14684.7 | 15606.0 | 17595.4 | 18920.6 | 17687.2 | 15676.4 | 15174.4 | 16453.8 | 16423.2 | 16156.9 |
| 47.5° | 14580.7 | 16328.3 | 19563.3 | 21589.4 | 19707.2 | 16068.1 | 15110.2 | 17922.8 | 18170.8 | 17766.8 |
| 50° | 14363.4 | 17053.6 | 21861.8 | 24858.2 | 22186.3 | 16484.4 | 15012.2 | 19551.1 | 19961.2 | 19649.0 |
| 52.5° | 14583.7 | 17861.6 | 24579.6 | 28237.0 | 25295.8 | 17148.5 | 15673.3 | 21641.5 | 21568.0 | 21191.6 |
| 55° | 15281.5 | 18816.5 | 27882.0 | 32482.1 | 28711.4 | 18271.8 | 17371.9 | 23633.9 | 22887.1 | 22437.2 |
| 57.5° | 15247.9 | 19499.0 | 30777.3 | 35839.6 | 31683.3 | 19193.0 | 17962.6 | 23845.1 | 22336.2 | 21766.9 |
| 60° | 13840.0 | 19186.9 | 31879.2 | 37963.6 | 32580.0 | 18684.9 | 16019.2 | 21298.7 | 18847.1 | 18250.3 |
| 62.5° | 10329.5 | 17026.1 | 29742.9 | 35304.0 | 30042.8 | 16138.5 | 12046.5 | 15287.7 | 13543.1 | 12536.2 |
| 65° | 6607.8 | 13319.7 | 25005.1 | 28601.3 | 24763.3 | 12343.4 | 7174.0 | 8196.3 | 6421.1 | 6133.4 |
| 67.5° | 2812.7 | 9402.1 | 19437.8 | 19116.5 | 18525.8 | 7997.3 | 2769.8 | 2307.7 | 1720.1 | 1689.4 |
| 70° | 930.4 | 6396.6 | 11982.2 | 12750.4 | 11064.1 | 5509.1 | 915.1 | 774.3 | 771.3 | 743.7 |
| 72.5° | 609.1 | 3434.0 | 6745.6 | 7510.7 | 7118.9 | 3170.8 | 554.0 | 517.2 | 529.5 | 517.2 |
| 75° | 364.2 | 746.8 | 1135.5 | 1475.2 | 1135.5 | 532.5 | 333.6 | 327.5 | 333.6 | 318.3 |
| 77.5° | 214.2 | 208.1 | 202.0 | 202.0 | 198.9 | 183.6 | 168.3 | 162.2 | 165.3 | 168.3 |
| 80° | 137.7 | 131.6 | 125.5 | 122.4 | 107.1 | 101.0 | 94.9 | 88.8 | 88.8 | 91.8 |
| 82.5° | 88.8 | 82.6 | 76.5 | 67.3 | 55.1 | 45.9 | 42.8 | 36.7 | 36.7 | 39.8 |
| 85° | 45.9 | 36.7 | 27.5 | 21.4 | 12.2 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.2 | 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 |

(END OF REPORT)