

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: P636411

Luminaire Tested: GWS-SA3F-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21627.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

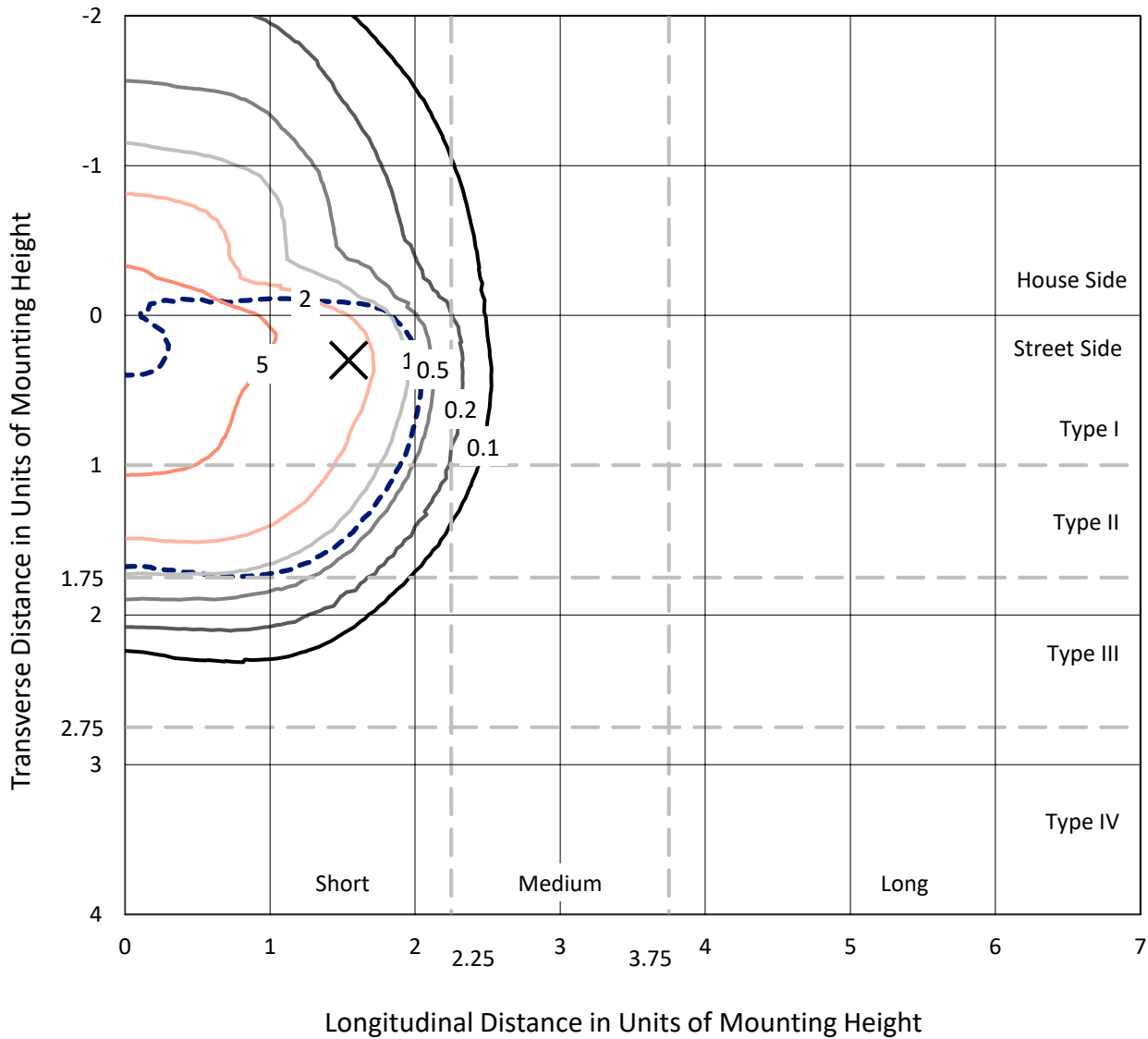
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

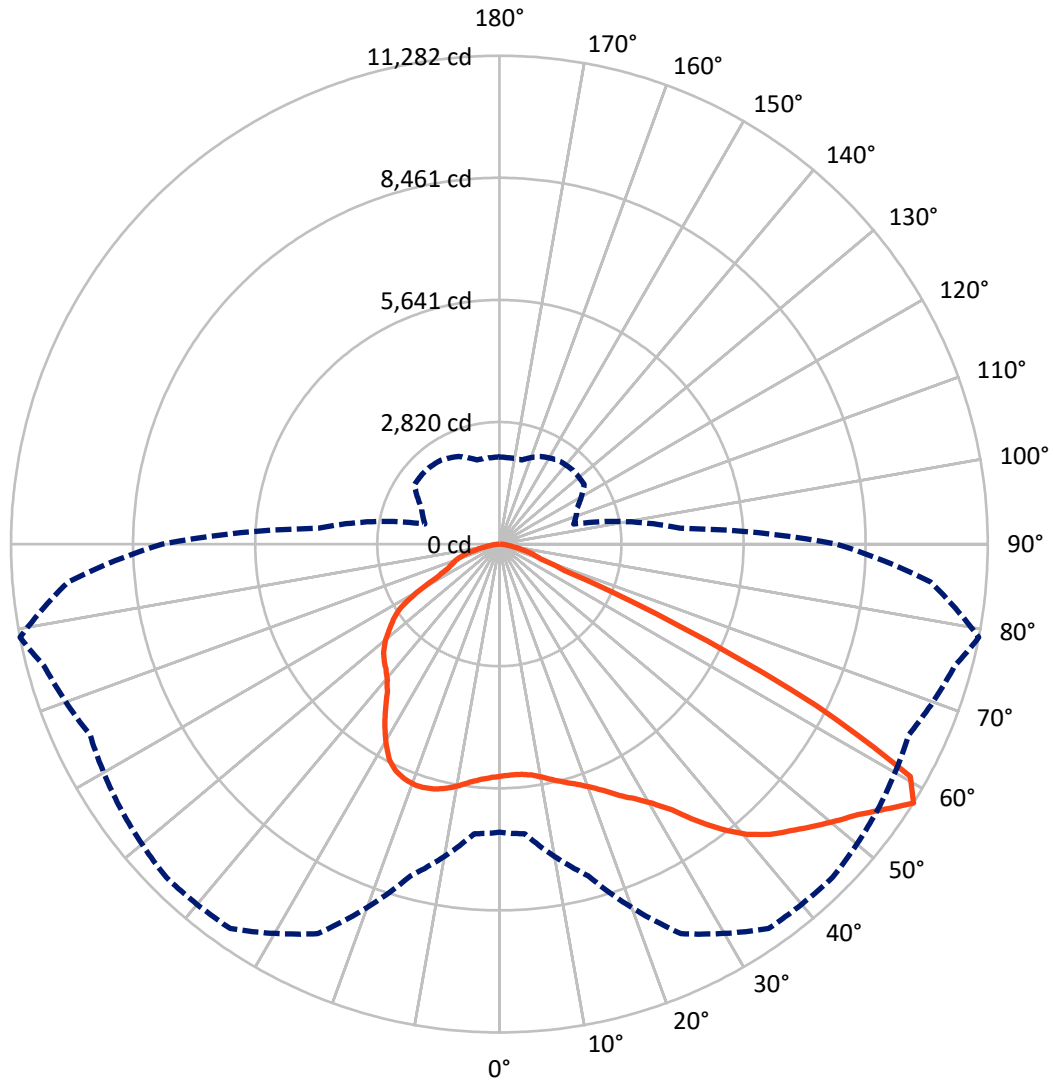
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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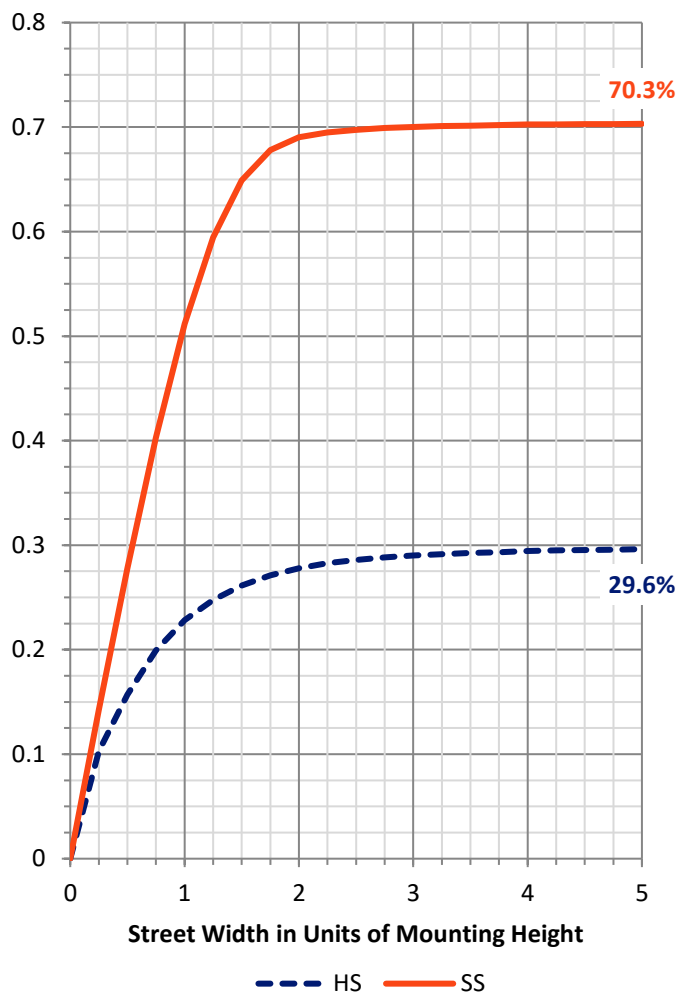
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6428.8 | 0.0 | 6428.8 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 15198.6 | 0.0 | 15198.6 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 21627.4 | 0.0 | 21627.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 496.4 | 2.3 |
| 10°-20° | 1379.4 | 6.4 |
| 20°-30° | 2338.1 | 10.8 |
| 30°-40° | 3578.8 | 16.5 |
| 40°-50° | 4772.0 | 22.1 |
| 50°-60° | 5511.3 | 25.5 |
| 60°-70° | 2863.8 | 13.2 |
| 70°-80° | 608.8 | 2.8 |
| 80°-90° | 78.8 | 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° | 21627.4 | 100.0 |
| 0°-180° | 21627.4 | 100.0 |

Coefficient of Utilization



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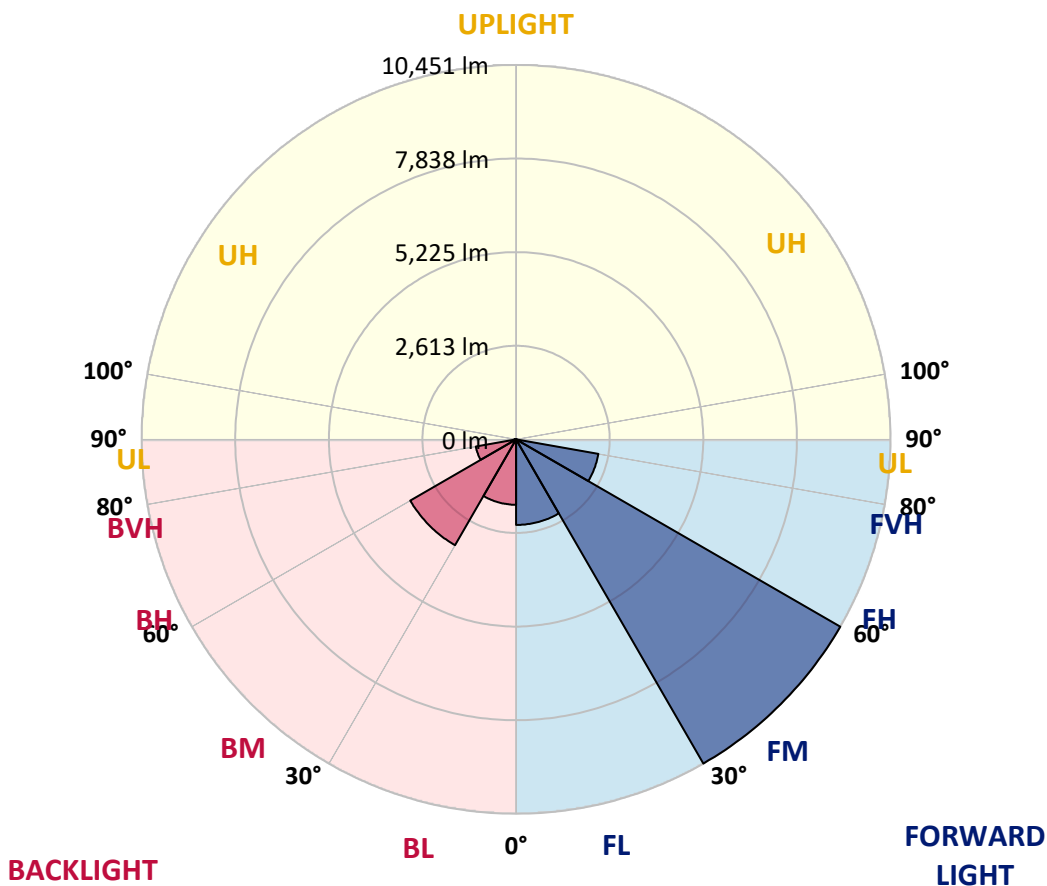
CATALOG NUMBER: GWS-SA3F-760-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2388.2 | 11.0 | | | |
| FM (30°-60°) | 10451.0 | 48.3 | | | |
| FH (60°-80°) | 2332.0 | 10.8 | | | G2/5000 |
| FVH (80°-90°) | 27.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1825.7 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 3411.1 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1140.7 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 51.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 |
| 2.5° | 5115.7 | 5105.1 | 5108.7 | 5122.8 | 5175.9 | 5214.8 | 5255.4 | 5292.6 | 5327.9 | 5338.5 | 5347.4 |
| 5° | 4933.6 | 4914.2 | 4919.5 | 4942.4 | 5004.3 | 5069.8 | 5142.3 | 5230.7 | 5315.6 | 5343.9 | 5381.0 |
| 7.5° | 4804.5 | 4801.0 | 4809.8 | 4845.2 | 4910.6 | 4972.5 | 5066.2 | 5191.8 | 5338.5 | 5386.3 | 5451.7 |
| 10° | 4633.0 | 4625.9 | 4661.3 | 4733.8 | 4841.7 | 4940.7 | 5052.1 | 5200.6 | 5405.7 | 5476.5 | 5577.3 |
| 12.5° | 4496.8 | 4493.3 | 4530.4 | 4631.2 | 4769.2 | 4926.5 | 5080.4 | 5246.6 | 5495.9 | 5593.2 | 5717.0 |
| 15° | 4576.4 | 4560.5 | 4562.3 | 4633.0 | 4756.8 | 4942.4 | 5151.1 | 5329.7 | 5586.1 | 5709.9 | 5869.0 |
| 17.5° | 4808.1 | 4779.8 | 4758.5 | 4770.9 | 4841.7 | 5034.4 | 5259.0 | 5441.1 | 5690.4 | 5835.4 | 6030.0 |
| 20° | 5128.1 | 5112.2 | 5053.9 | 5014.9 | 5030.9 | 5200.6 | 5428.7 | 5598.5 | 5826.6 | 5989.3 | 6198.0 |
| 22.5° | 5557.8 | 5518.9 | 5439.3 | 5377.5 | 5329.7 | 5462.3 | 5672.8 | 5819.5 | 6015.8 | 6185.6 | 6403.1 |
| 25° | 6090.1 | 6033.5 | 5907.9 | 5810.7 | 5708.1 | 5844.3 | 6031.7 | 6143.1 | 6275.8 | 6433.1 | 6640.0 |
| 27.5° | 6633.0 | 6585.2 | 6445.5 | 6314.7 | 6187.3 | 6272.2 | 6495.0 | 6558.7 | 6544.5 | 6659.5 | 6836.3 |
| 30° | 7211.2 | 7151.1 | 7018.5 | 6877.0 | 6712.5 | 6767.4 | 6967.2 | 6999.0 | 6848.7 | 6944.2 | 7064.4 |
| 32.5° | 7821.3 | 7762.9 | 7648.0 | 7483.5 | 7297.8 | 7319.1 | 7373.9 | 7403.9 | 7260.7 | 7315.5 | 7407.5 |
| 35° | 8441.9 | 8387.1 | 8270.4 | 8107.7 | 7971.6 | 7842.5 | 7704.6 | 7824.8 | 7741.7 | 7847.8 | 7840.7 |
| 37.5° | 9009.6 | 8954.8 | 8882.3 | 8756.7 | 8523.3 | 8268.7 | 7950.4 | 8098.9 | 8228.0 | 8362.4 | 8339.4 |
| 40° | 9393.3 | 9356.2 | 9373.9 | 9354.4 | 9053.8 | 8549.8 | 8070.6 | 8233.3 | 8585.2 | 8815.1 | 8802.7 |
| 42.5° | 9724.0 | 9686.8 | 9789.4 | 9863.7 | 9510.0 | 8809.8 | 8129.0 | 8284.6 | 8813.3 | 9172.3 | 9154.6 |
| 45° | 9870.7 | 9860.1 | 10029.9 | 10265.1 | 9927.3 | 9085.6 | 8279.3 | 8390.7 | 8986.6 | 9446.4 | 9379.2 |
| 47.5° | 9695.7 | 9732.8 | 10067.0 | 10464.9 | 10273.9 | 9412.8 | 8586.9 | 8615.2 | 9212.9 | 9743.4 | 9554.2 |
| 50° | 9347.3 | 9428.7 | 9879.6 | 10470.2 | 10526.8 | 9782.3 | 9013.1 | 8942.4 | 9517.1 | 10060.0 | 9646.2 |
| 52.5° | 8839.8 | 8924.7 | 9660.3 | 10429.5 | 10671.8 | 10210.3 | 9580.7 | 9479.9 | 9900.8 | 10376.5 | 9662.1 |
| 55° | 7674.5 | 7789.4 | 9158.1 | 10337.6 | 10813.3 | 10599.3 | 10220.9 | 10015.7 | 10395.9 | 10811.5 | 9819.5 |
| 57.5° | 6657.7 | 6717.8 | 7934.4 | 9929.1 | 10841.6 | 10885.8 | 10677.1 | 10433.1 | 10887.5 | 11281.9 | 9996.3 |
| 60° | 4885.9 | 4900.0 | 5994.6 | 8215.6 | 9973.3 | 10719.5 | 10640.0 | 10277.5 | 10654.1 | 10905.2 | 9186.4 |
| 62.5° | 2760.3 | 2762.1 | 3635.7 | 5483.6 | 7449.9 | 8737.3 | 8786.8 | 8466.7 | 8150.2 | 8224.4 | 6394.2 |
| 65° | 1036.2 | 1133.5 | 1660.4 | 2694.9 | 4295.2 | 5158.2 | 5363.3 | 5437.6 | 4910.6 | 4583.5 | 3428.8 |
| 67.5° | 693.2 | 716.2 | 969.0 | 1386.4 | 1911.6 | 2206.9 | 2468.6 | 2475.6 | 1810.8 | 1614.5 | 1351.0 |
| 70° | 528.7 | 551.7 | 762.1 | 992.0 | 969.0 | 894.8 | 967.3 | 940.7 | 972.6 | 999.1 | 1027.4 |
| 72.5° | 394.3 | 417.3 | 590.6 | 700.3 | 581.8 | 572.9 | 649.0 | 721.5 | 788.7 | 817.0 | 861.2 |
| 75° | 261.7 | 279.4 | 397.9 | 374.9 | 321.8 | 380.2 | 473.9 | 546.4 | 585.3 | 618.9 | 652.5 |
| 77.5° | 166.2 | 178.6 | 212.2 | 171.5 | 178.6 | 222.8 | 275.9 | 341.3 | 378.4 | 412.0 | 429.7 |
| 80° | 76.0 | 74.3 | 72.5 | 81.3 | 100.8 | 130.9 | 166.2 | 205.1 | 233.4 | 247.6 | 258.2 |
| 82.5° | 30.1 | 33.6 | 37.1 | 44.2 | 54.8 | 70.7 | 93.7 | 120.2 | 143.2 | 146.8 | 155.6 |
| 85° | 12.4 | 14.1 | 15.9 | 19.5 | 24.8 | 31.8 | 38.9 | 54.8 | 69.0 | 74.3 | 79.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 3.5 | 5.3 | 8.8 | 15.9 | 17.7 | 19.5 |
| 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-SA3F-760-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 | 5359.8 |
| 2.5° | 5395.1 | 5372.1 | 5411.1 | 5437.6 | 5462.3 | 5435.8 | 5427.0 | 5404.0 | 5400.4 | 5400.4 | 5412.8 |
| 5° | 5444.6 | 5428.7 | 5469.4 | 5485.3 | 5483.6 | 5425.2 | 5389.8 | 5343.9 | 5320.9 | 5320.9 | 5324.4 |
| 7.5° | 5533.1 | 5524.2 | 5547.2 | 5522.5 | 5465.9 | 5347.4 | 5230.7 | 5133.4 | 5068.0 | 5034.4 | 5045.0 |
| 10° | 5679.8 | 5669.2 | 5649.8 | 5557.8 | 5395.1 | 5149.3 | 4910.6 | 4733.8 | 4627.7 | 4567.6 | 4571.1 |
| 12.5° | 5823.1 | 5805.4 | 5736.4 | 5533.1 | 5198.9 | 4808.1 | 4495.1 | 4297.0 | 4180.3 | 4109.6 | 4093.7 |
| 15° | 5980.4 | 5934.5 | 5785.9 | 5405.7 | 4878.8 | 4390.7 | 4063.6 | 3849.6 | 3724.1 | 3681.6 | 3679.9 |
| 17.5° | 6130.8 | 6049.4 | 5780.6 | 5179.4 | 4495.1 | 3954.0 | 3625.1 | 3492.4 | 3471.2 | 3490.7 | 3496.0 |
| 20° | 6282.8 | 6152.0 | 5722.3 | 4866.4 | 4038.8 | 3519.0 | 3349.2 | 3404.0 | 3483.6 | 3536.6 | 3549.0 |
| 22.5° | 6440.2 | 6236.9 | 5589.7 | 4463.2 | 3557.9 | 3225.4 | 3296.1 | 3416.4 | 3515.4 | 3586.1 | 3593.2 |
| 25° | 6617.0 | 6316.4 | 5391.6 | 3969.9 | 3172.4 | 3144.1 | 3283.8 | 3411.1 | 3517.2 | 3598.5 | 3612.7 |
| 27.5° | 6717.8 | 6318.2 | 5114.0 | 3462.4 | 2995.5 | 3112.2 | 3253.7 | 3373.9 | 3480.0 | 3568.5 | 3584.4 |
| 30° | 6816.9 | 6270.5 | 4673.7 | 3050.3 | 2944.2 | 3075.1 | 3202.4 | 3313.8 | 3414.6 | 3501.3 | 3520.7 |
| 32.5° | 6956.6 | 6226.2 | 4166.2 | 2813.4 | 2914.2 | 3039.7 | 3144.1 | 3243.1 | 3320.9 | 3359.8 | 3370.4 |
| 35° | 7129.9 | 6169.7 | 3626.8 | 2710.8 | 2894.7 | 3011.4 | 3103.4 | 3156.4 | 3055.7 | 3034.4 | 3057.4 |
| 37.5° | 7372.1 | 6116.6 | 3089.3 | 2666.6 | 2882.4 | 3000.8 | 3082.2 | 2946.0 | 2822.2 | 2772.7 | 2790.4 |
| 40° | 7633.8 | 6086.5 | 2725.0 | 2631.3 | 2887.7 | 3011.4 | 2993.8 | 2792.2 | 2613.6 | 2509.2 | 2505.7 |
| 42.5° | 7856.6 | 6040.6 | 2491.6 | 2608.3 | 2901.8 | 3052.1 | 2873.5 | 2656.0 | 2390.8 | 2328.9 | 2330.6 |
| 45° | 8006.9 | 5923.9 | 2367.8 | 2583.5 | 2914.2 | 3061.0 | 2816.9 | 2468.6 | 2279.4 | 2240.5 | 2238.7 |
| 47.5° | 8068.8 | 5711.7 | 2288.2 | 2544.6 | 2912.4 | 2988.5 | 2702.0 | 2390.8 | 2201.6 | 2190.9 | 2198.0 |
| 50° | 8028.2 | 5363.3 | 2206.9 | 2468.6 | 2870.0 | 2912.4 | 2569.4 | 2321.8 | 2148.5 | 2206.9 | 2249.3 |
| 52.5° | 7877.9 | 4912.4 | 2109.6 | 2364.2 | 2793.9 | 2825.8 | 2502.2 | 2279.4 | 2109.6 | 2187.4 | 2221.0 |
| 55° | 7839.0 | 4546.3 | 1985.8 | 2228.1 | 2680.8 | 2671.9 | 2431.4 | 2258.1 | 2083.1 | 2053.0 | 2058.3 |
| 57.5° | 7787.7 | 4189.1 | 1780.7 | 1984.1 | 2394.3 | 2408.4 | 2364.2 | 2233.4 | 2014.1 | 2005.3 | 2014.1 |
| 60° | 6765.6 | 3211.3 | 1587.9 | 1711.7 | 1966.4 | 2042.4 | 2288.2 | 2187.4 | 1902.7 | 1865.6 | 1863.8 |
| 62.5° | 4419.0 | 1945.1 | 1412.9 | 1492.5 | 1602.1 | 1690.5 | 2086.6 | 2054.8 | 1780.7 | 1757.7 | 1773.6 |
| 65° | 2376.6 | 1386.4 | 1285.6 | 1333.3 | 1393.4 | 1460.6 | 1729.4 | 1830.2 | 1609.2 | 1527.8 | 1529.6 |
| 67.5° | 1214.8 | 1179.5 | 1190.1 | 1223.7 | 1269.7 | 1303.2 | 1395.2 | 1483.6 | 1372.2 | 1303.2 | 1301.5 |
| 70° | 1039.8 | 1068.1 | 1084.0 | 1103.4 | 1133.5 | 1128.2 | 1137.0 | 1152.9 | 1144.1 | 1110.5 | 1108.7 |
| 72.5° | 885.9 | 930.1 | 933.7 | 937.2 | 947.8 | 923.1 | 907.1 | 880.6 | 882.4 | 887.7 | 889.5 |
| 75° | 673.7 | 716.2 | 726.8 | 721.5 | 732.1 | 700.3 | 679.0 | 652.5 | 620.7 | 615.4 | 618.9 |
| 77.5° | 438.5 | 472.1 | 488.1 | 484.5 | 489.8 | 465.1 | 454.5 | 426.2 | 389.0 | 374.9 | 374.9 |
| 80° | 265.2 | 284.7 | 297.1 | 300.6 | 305.9 | 288.2 | 270.6 | 245.8 | 229.9 | 214.0 | 214.0 |
| 82.5° | 160.9 | 173.3 | 182.1 | 182.1 | 187.4 | 168.0 | 153.8 | 136.2 | 129.1 | 114.9 | 114.9 |
| 85° | 81.3 | 90.2 | 93.7 | 92.0 | 88.4 | 72.5 | 67.2 | 58.4 | 54.8 | 47.7 | 47.7 |
| 87.5° | 19.5 | 24.8 | 24.8 | 17.7 | 17.7 | 8.8 | 5.3 | 1.8 | 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 |

(END OF REPORT)