

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: P638849

Luminaire Tested: GWS-SA4F-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28786.7 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

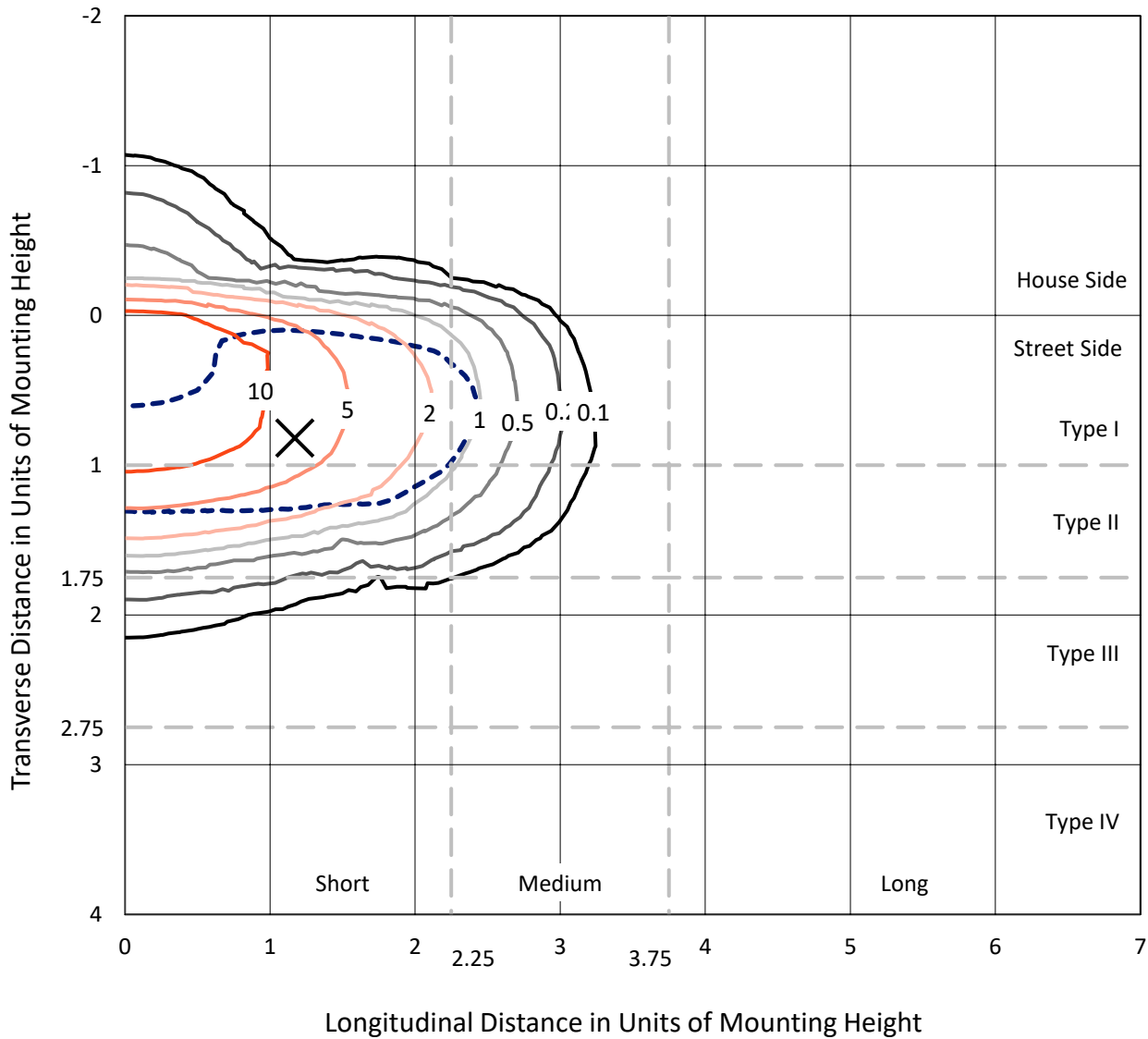
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638849
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Iso-Footcandle Lines of Horizontal Illumination

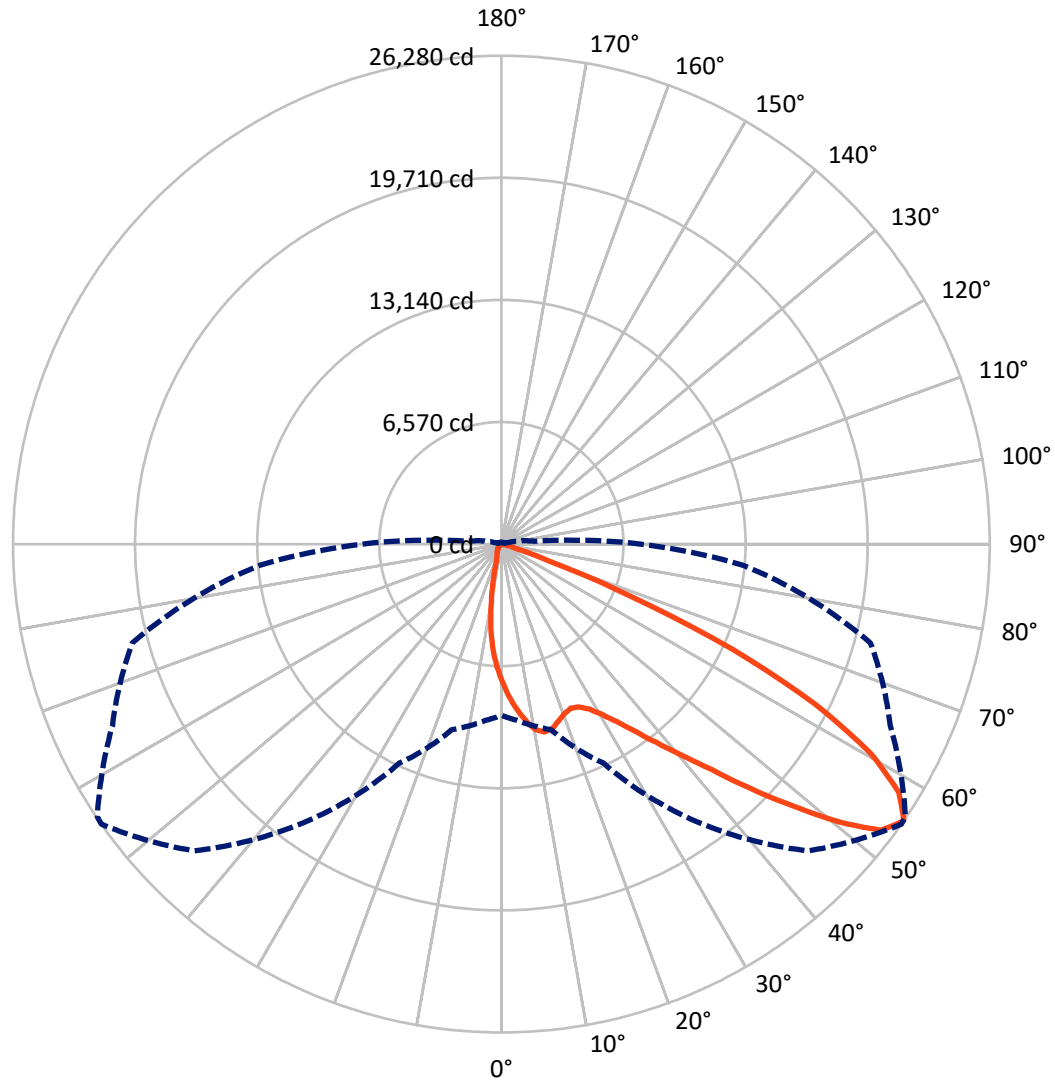
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA4F-760-U-AFL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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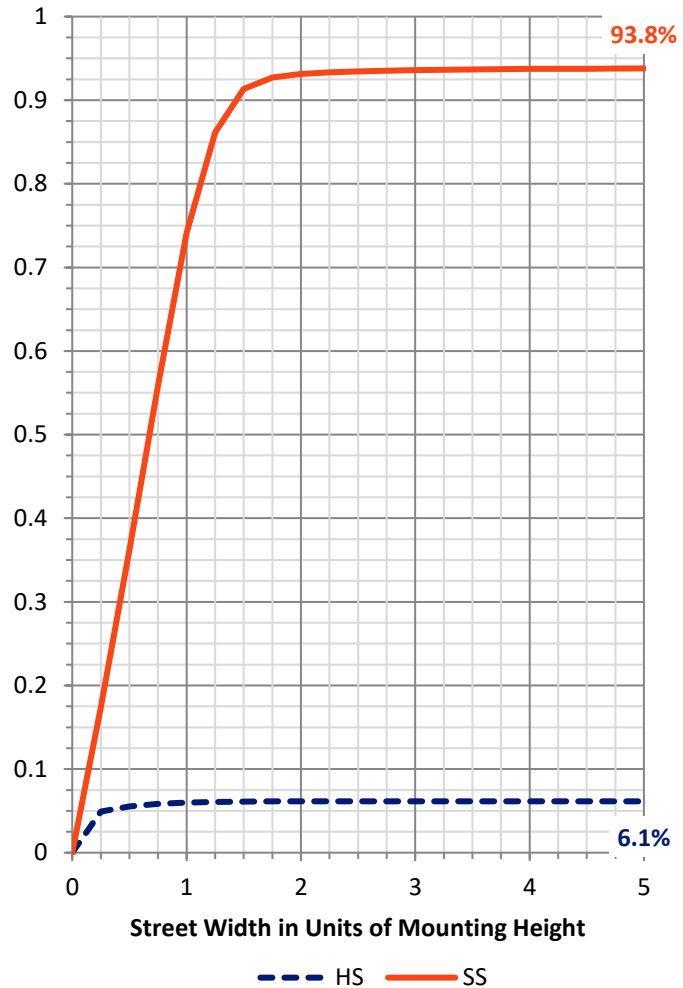
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1776.3 | 0.0 | 1776.3 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 27010.4 | 0.0 | 27010.4 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 28786.7 | 0.0 | 28786.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 657.2 | 2.3 |
| 10°-20° | 1584.5 | 5.5 |
| 20°-30° | 2638.8 | 9.2 |
| 30°-40° | 4496.7 | 15.6 |
| 40°-50° | 7340.2 | 25.5 |
| 50°-60° | 7684.9 | 26.7 |
| 60°-70° | 3876.1 | 13.5 |
| 70°-80° | 489.6 | 1.7 |
| 80°-90° | 18.6 | 0.1 |
| 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° | 28786.7 | 100.0 |
| 0°-180° | 28786.7 | 100.0 |

Coefficient of Utilization



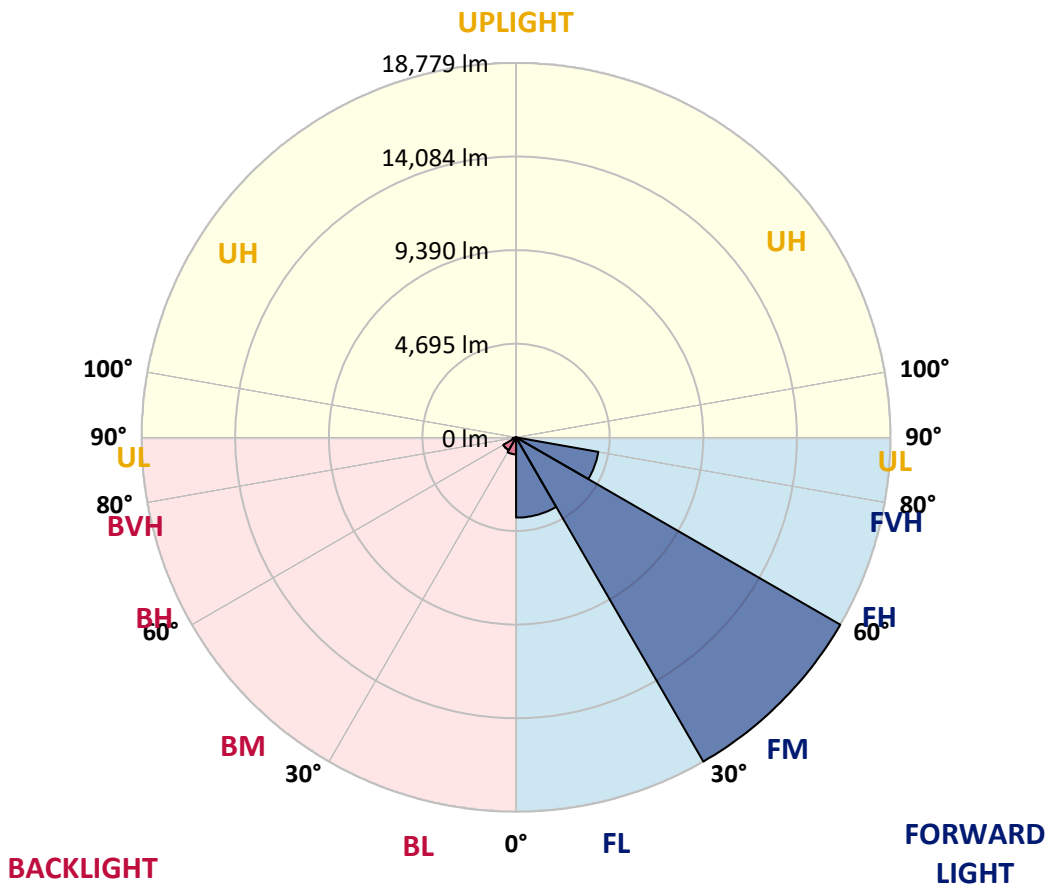
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CATALOG NUMBER: GWS-SA4F-760-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4026.9 | 14.0 | | | |
| FM (30°-60°) | 18779.2 | 65.2 | | | |
| FH (60°-80°) | 4187.5 | 14.5 | | | G2/5000 |
| FVH (80°-90°) | 16.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 853.7 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 742.7 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 178.2 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 |
| 2.5° | 8669.7 | 8627.9 | 8691.8 | 8618.0 | 8492.5 | 8386.7 | 8248.9 | 8199.7 | 7978.2 | 7769.0 | 7567.2 |
| 5° | 9723.0 | 9735.3 | 9715.6 | 9612.2 | 9435.0 | 9238.2 | 8960.1 | 8898.6 | 8512.2 | 8113.5 | 7682.9 |
| 7.5° | 9983.8 | 9976.4 | 10018.3 | 10057.6 | 10028.1 | 9929.7 | 9627.0 | 9565.5 | 9085.6 | 8487.6 | 7860.1 |
| 10° | 9179.1 | 9184.0 | 9270.2 | 9535.9 | 9865.7 | 10207.8 | 10161.0 | 10126.5 | 9656.5 | 8910.9 | 8056.9 |
| 12.5° | 8042.2 | 8086.5 | 8177.5 | 8556.5 | 9115.1 | 9892.8 | 10375.1 | 10409.5 | 10180.7 | 9376.0 | 8288.3 |
| 15° | 7550.0 | 7559.8 | 7633.7 | 7862.5 | 8278.4 | 9238.2 | 10284.0 | 10380.0 | 10618.7 | 9843.5 | 8539.3 |
| 17.5° | 7537.7 | 7550.0 | 7582.0 | 7682.9 | 7953.6 | 8723.8 | 9991.2 | 10158.5 | 10948.5 | 10345.6 | 8839.5 |
| 20° | 8000.3 | 7993.0 | 7970.8 | 7916.7 | 8034.8 | 8554.0 | 9720.5 | 9905.1 | 11128.1 | 10835.3 | 9142.2 |
| 22.5° | 8839.5 | 8829.7 | 8731.2 | 8507.3 | 8411.3 | 8709.1 | 9587.6 | 9755.0 | 11236.4 | 11270.9 | 9390.7 |
| 25° | 9806.6 | 9875.5 | 9691.0 | 9351.4 | 9115.1 | 9105.3 | 9705.7 | 9823.9 | 11329.9 | 11657.2 | 9560.5 |
| 27.5° | 10867.3 | 10889.4 | 10731.9 | 10350.5 | 10008.4 | 9740.2 | 10047.8 | 10136.4 | 11433.3 | 12001.7 | 9656.5 |
| 30° | 12031.3 | 12023.9 | 11844.2 | 11401.3 | 10985.4 | 10599.0 | 10623.6 | 10658.1 | 11674.4 | 12395.5 | 9762.3 |
| 32.5° | 13485.7 | 13517.6 | 13197.7 | 12594.8 | 12095.3 | 11561.2 | 11376.7 | 11381.6 | 12110.0 | 12902.4 | 9922.3 |
| 35° | 15461.7 | 15383.0 | 14959.7 | 14100.9 | 13249.4 | 12673.6 | 12358.6 | 12331.5 | 12781.8 | 13584.1 | 10200.4 |
| 37.5° | 17344.3 | 17351.7 | 16908.7 | 15963.8 | 14888.4 | 13980.3 | 13534.9 | 13461.0 | 13726.8 | 14529.1 | 10663.0 |
| 40° | 18651.1 | 18675.7 | 18491.1 | 17996.5 | 16857.1 | 15572.5 | 14917.9 | 14841.6 | 14952.3 | 15725.1 | 11268.4 |
| 42.5° | 19342.6 | 19411.5 | 19463.1 | 19578.8 | 18715.0 | 17560.9 | 16554.4 | 16547.0 | 16431.3 | 17088.4 | 11969.7 |
| 45° | 19369.6 | 19473.0 | 19788.0 | 20577.9 | 20676.4 | 19829.8 | 18734.7 | 18569.8 | 18124.4 | 18547.7 | 12597.3 |
| 47.5° | 18299.1 | 18537.9 | 19207.2 | 20772.3 | 21805.9 | 22086.5 | 21001.2 | 20900.3 | 19650.2 | 19701.9 | 13067.3 |
| 50° | 15803.8 | 16052.4 | 17285.3 | 19775.7 | 22091.4 | 23878.0 | 23489.2 | 23280.0 | 20924.9 | 20464.7 | 13293.7 |
| 52.5° | 13244.5 | 13470.9 | 14307.6 | 17403.4 | 20907.7 | 24441.5 | 25585.8 | 25337.3 | 22069.2 | 20730.5 | 13200.2 |
| 55° | 9216.0 | 9518.7 | 10335.7 | 13008.2 | 18181.0 | 23344.0 | 26279.8 | 26228.1 | 23090.5 | 20563.2 | 13055.0 |
| 57.5° | 4518.2 | 4818.4 | 5633.0 | 8020.0 | 13468.4 | 20381.1 | 25219.2 | 25492.3 | 23700.8 | 20383.5 | 12936.9 |
| 60° | 1887.5 | 2010.5 | 2291.1 | 3519.1 | 7535.2 | 15402.7 | 22824.7 | 23203.7 | 23326.7 | 20139.9 | 12924.6 |
| 62.5° | 1095.1 | 1114.8 | 1144.3 | 1459.3 | 2930.9 | 8829.7 | 18934.1 | 19473.0 | 21360.5 | 19817.5 | 12730.2 |
| 65° | 826.9 | 834.2 | 821.9 | 895.8 | 1210.8 | 3349.3 | 13680.1 | 14413.4 | 17829.1 | 18557.5 | 11962.4 |
| 67.5° | 679.2 | 679.2 | 647.2 | 662.0 | 760.4 | 1255.1 | 7552.5 | 8576.2 | 13192.8 | 15252.6 | 9878.0 |
| 70° | 541.4 | 553.7 | 538.9 | 519.2 | 543.9 | 694.0 | 2687.3 | 3332.0 | 7682.9 | 9006.8 | 5760.9 |
| 72.5° | 411.0 | 411.0 | 435.6 | 420.8 | 403.6 | 435.6 | 937.6 | 1053.3 | 3083.5 | 3755.3 | 2079.4 |
| 75° | 317.5 | 327.3 | 344.5 | 329.8 | 305.1 | 258.4 | 450.3 | 477.4 | 930.2 | 873.6 | 465.1 |
| 77.5° | 162.4 | 164.9 | 219.0 | 241.2 | 226.4 | 157.5 | 196.9 | 216.6 | 302.7 | 270.7 | 172.3 |
| 80° | 98.4 | 103.4 | 123.0 | 189.5 | 150.1 | 83.7 | 81.2 | 86.1 | 142.7 | 123.0 | 71.4 |
| 82.5° | 41.8 | 44.3 | 68.9 | 68.9 | 61.5 | 32.0 | 32.0 | 32.0 | 68.9 | 64.0 | 29.5 |
| 85° | 0.0 | 0.0 | 12.3 | 9.8 | 9.8 | 12.3 | 12.3 | 12.3 | 17.2 | 24.6 | 14.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 7.4 | 7.4 |
| 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-760-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 | 7436.8 |
| 2.5° | 7436.8 | 7279.3 | 7067.7 | 6875.7 | 6617.3 | 6472.1 | 6270.3 | 6105.5 | 5965.2 | 5920.9 | 5901.2 |
| 5° | 7439.3 | 7168.6 | 6715.8 | 6263.0 | 5706.8 | 5268.8 | 4818.4 | 4461.6 | 4168.7 | 4075.2 | 4050.6 |
| 7.5° | 7488.5 | 7089.8 | 6356.5 | 5534.5 | 4604.3 | 3836.5 | 3149.9 | 2534.7 | 2249.2 | 2153.3 | 2133.6 |
| 10° | 7554.9 | 7023.4 | 5940.6 | 4660.9 | 3324.7 | 2337.8 | 1656.2 | 1262.4 | 1075.4 | 972.0 | 986.8 |
| 12.5° | 7641.1 | 6969.2 | 5480.4 | 3715.9 | 2200.0 | 1284.6 | 910.5 | 762.9 | 723.5 | 703.8 | 694.0 |
| 15° | 7756.7 | 6905.2 | 4909.5 | 2778.3 | 1348.6 | 826.9 | 701.4 | 662.0 | 647.2 | 637.4 | 634.9 |
| 17.5° | 7874.8 | 6831.4 | 4328.7 | 1953.9 | 895.8 | 686.6 | 630.0 | 610.3 | 600.5 | 593.1 | 590.6 |
| 20° | 8000.3 | 6705.9 | 3647.0 | 1346.1 | 706.3 | 617.7 | 580.8 | 558.6 | 546.3 | 534.0 | 531.6 |
| 22.5° | 8054.5 | 6504.1 | 2994.9 | 942.5 | 627.5 | 568.5 | 521.7 | 494.6 | 479.9 | 470.0 | 470.0 |
| 25° | 8002.8 | 6176.8 | 2320.6 | 716.1 | 570.9 | 514.3 | 467.6 | 438.0 | 425.7 | 415.9 | 415.9 |
| 27.5° | 7865.0 | 5756.0 | 1693.1 | 593.1 | 509.4 | 457.7 | 413.4 | 386.4 | 376.5 | 371.6 | 371.6 |
| 30° | 7712.4 | 5224.5 | 1193.5 | 509.4 | 440.5 | 398.7 | 361.8 | 344.5 | 342.1 | 337.1 | 337.1 |
| 32.5° | 7582.0 | 4727.4 | 821.9 | 447.9 | 388.8 | 347.0 | 322.4 | 315.0 | 317.5 | 312.5 | 315.0 |
| 35° | 7510.6 | 4240.1 | 610.3 | 398.7 | 347.0 | 307.6 | 295.3 | 295.3 | 295.3 | 292.8 | 292.8 |
| 37.5° | 7540.2 | 3760.2 | 497.1 | 364.2 | 310.1 | 280.5 | 268.2 | 273.2 | 278.1 | 278.1 | 278.1 |
| 40° | 7687.8 | 3334.5 | 440.5 | 332.2 | 278.1 | 255.9 | 246.1 | 253.5 | 260.9 | 265.8 | 265.8 |
| 42.5° | 7874.8 | 2990.0 | 398.7 | 305.1 | 255.9 | 231.3 | 226.4 | 233.8 | 241.2 | 246.1 | 246.1 |
| 45° | 7993.0 | 2643.0 | 356.8 | 270.7 | 233.8 | 204.3 | 204.3 | 214.1 | 211.6 | 214.1 | 214.1 |
| 47.5° | 8047.1 | 2367.4 | 315.0 | 233.8 | 199.3 | 177.2 | 179.6 | 184.6 | 179.6 | 184.6 | 184.6 |
| 50° | 7914.2 | 2089.3 | 278.1 | 194.4 | 164.9 | 155.0 | 160.0 | 157.5 | 157.5 | 167.3 | 167.3 |
| 52.5° | 7670.6 | 1882.6 | 246.1 | 164.9 | 140.3 | 137.8 | 142.7 | 132.9 | 135.3 | 135.3 | 132.9 |
| 55° | 7490.9 | 1764.5 | 219.0 | 142.7 | 120.6 | 123.0 | 120.6 | 103.4 | 93.5 | 83.7 | 81.2 |
| 57.5° | 7402.3 | 1717.7 | 199.3 | 128.0 | 108.3 | 108.3 | 98.4 | 71.4 | 54.1 | 41.8 | 36.9 |
| 60° | 7382.7 | 1661.1 | 179.6 | 110.7 | 96.0 | 91.1 | 71.4 | 41.8 | 27.1 | 19.7 | 17.2 |
| 62.5° | 7195.6 | 1523.3 | 162.4 | 88.6 | 83.7 | 73.8 | 44.3 | 24.6 | 14.8 | 9.8 | 7.4 |
| 65° | 6582.9 | 1252.6 | 145.2 | 68.9 | 64.0 | 54.1 | 27.1 | 14.8 | 7.4 | 2.5 | 0.0 |
| 67.5° | 5236.8 | 888.4 | 128.0 | 51.7 | 44.3 | 34.5 | 17.2 | 9.8 | 2.5 | 0.0 | 0.0 |
| 70° | 3019.5 | 479.9 | 105.8 | 36.9 | 29.5 | 22.1 | 12.3 | 4.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1009.0 | 223.9 | 81.2 | 24.6 | 22.1 | 17.2 | 7.4 | 2.5 | 0.0 | 0.0 | 0.0 |
| 75° | 221.5 | 132.9 | 54.1 | 17.2 | 14.8 | 12.3 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 83.7 | 93.5 | 27.1 | 12.3 | 9.8 | 7.4 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 32.0 | 61.5 | 12.3 | 7.4 | 7.4 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 17.2 | 24.6 | 7.4 | 4.9 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.8 | 12.3 | 4.9 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.9 | 2.5 | 2.5 | 2.5 | 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 |

(END OF REPORT)