

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: P640849

Luminaire Tested: GWS-SA5E-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-760-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

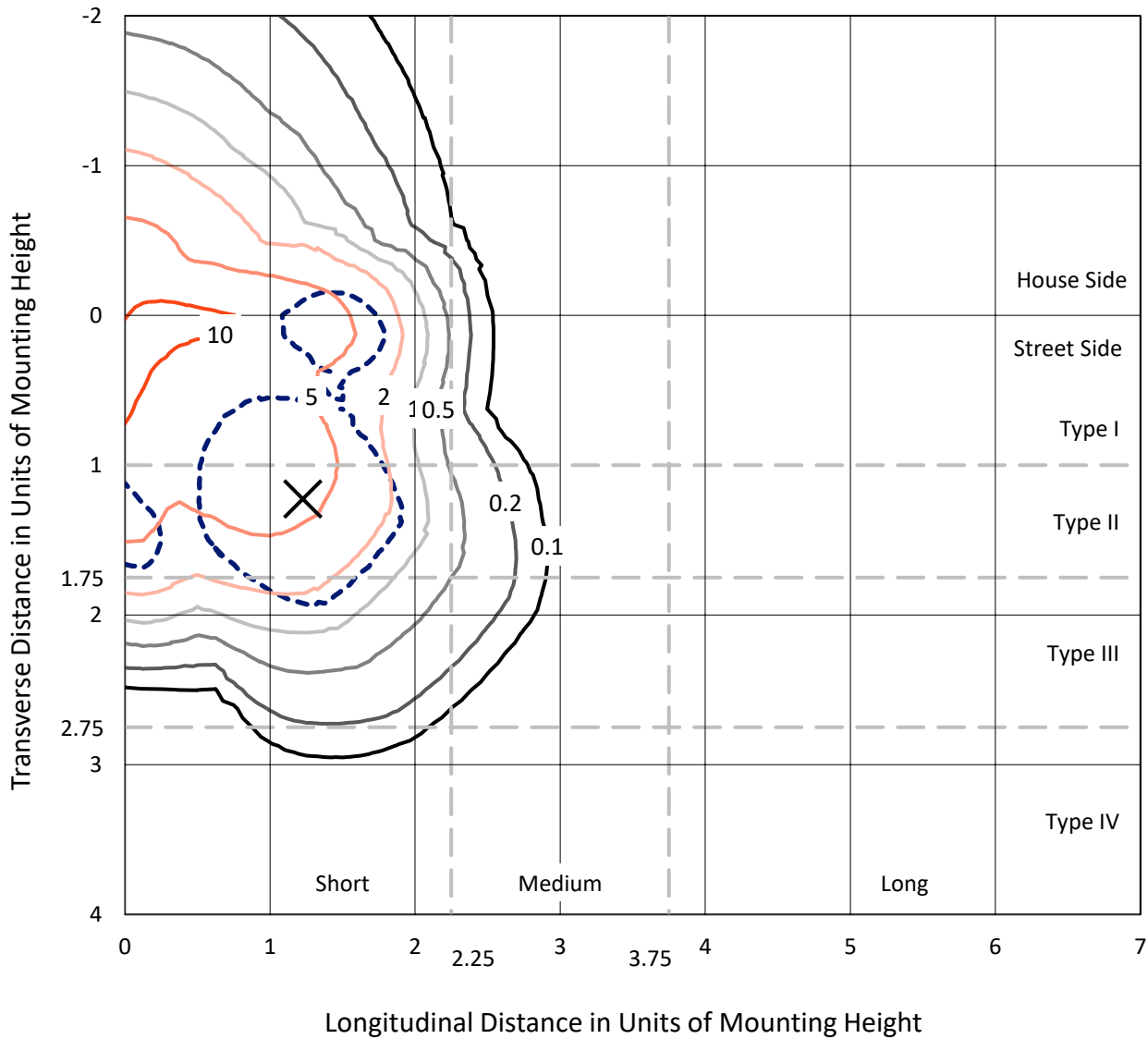
Lumens per Lamp: N/A  
Luminaire Lumens: 29632.8 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

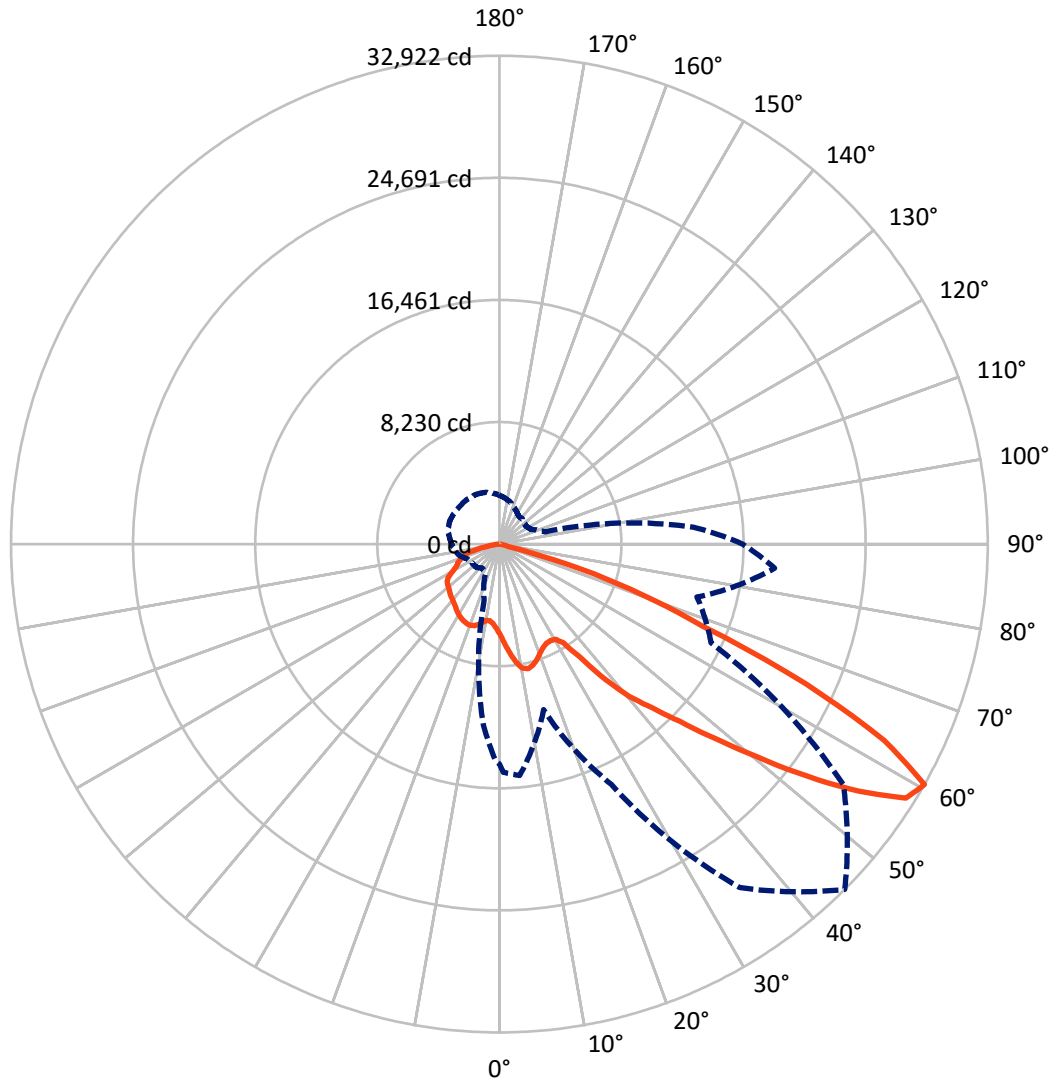
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10387.4	0.0	10387.4
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	19245.4	0.0	19245.4
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	29632.8	0.0	29632.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.9	2.0
10°-20°	1876.8	6.3
20°-30°	3048.7	10.3
30°-40°	4299.5	14.5
40°-50°	5941.9	20.1
50°-60°	7648.9	25.8
60°-70°	4846.4	16.4
70°-80°	1243.6	4.2
80°-90°	133.0	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°	29632.8	100.0
0°-180°	29632.8	100.0

**Coefficient of Utilization**



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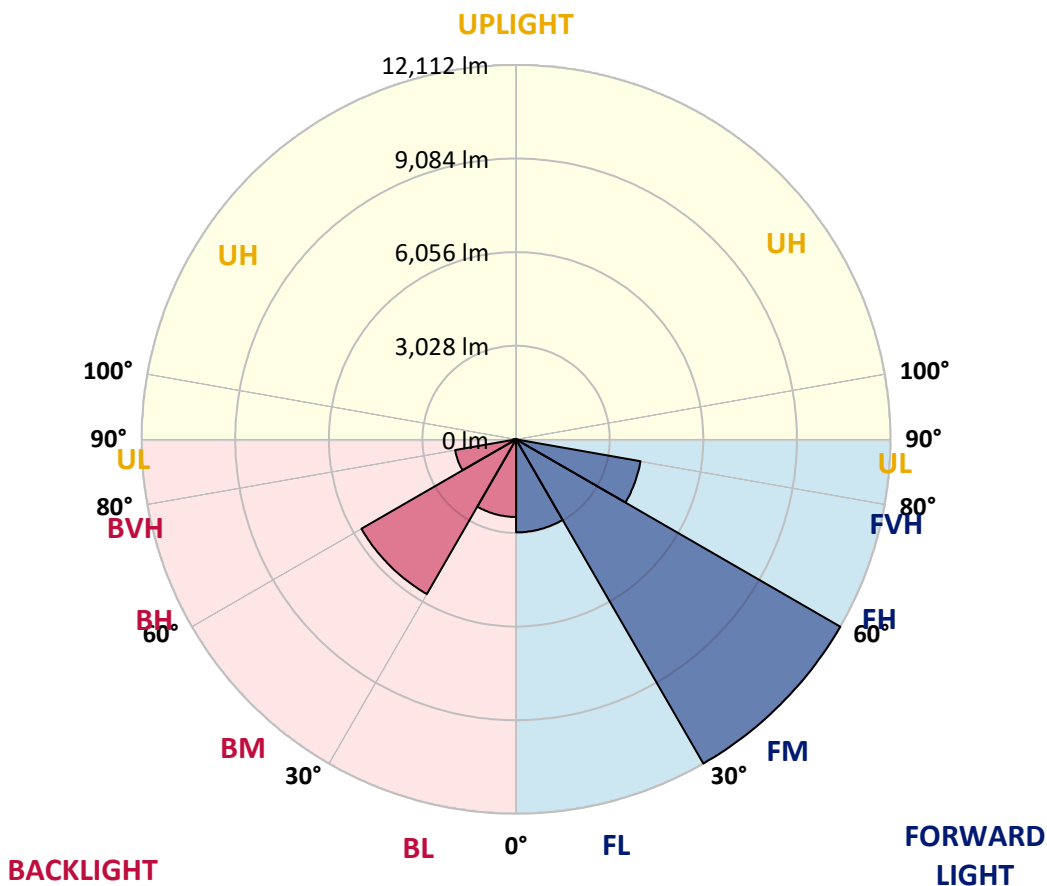
CATALOG NUMBER: GWS-SA5E-760-U-SLR-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.9	10.2			
FM (30°-60°)	12112.2	40.9			
FH (60°-80°)	4088.3	13.8			G2/5000
FVH (80°-90°)	36.1	0.1			G1/100
BL (0°-30°)	2510.6	8.5	B4/5000		
BM (30°-60°)	5778.2	19.5	B4/8500		
BH (60°-80°)	2001.7	6.8	B3/2500		G3/2500
BVH (80°-90°)	96.9	0.3			G1/100
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°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6367.1	6410.6	6437.7	6489.3	6581.6	6633.2	6690.2	6627.8	6644.1	6635.9	6535.5
5°	6744.5	6796.1	6866.7	7018.8	7189.8	7284.8	7374.4	7360.9	7276.7	7135.5	7035.0
7.5°	7097.5	7157.2	7279.4	7526.5	7779.0	7925.6	8034.2	7963.6	7893.0	7670.4	7417.9
10°	7374.4	7409.7	7575.4	7906.6	8199.9	8365.5	8498.5	8482.2	8384.5	8134.7	7795.3
12.5°	7635.1	7659.5	7838.7	8170.0	8433.4	8506.7	8615.3	8650.6	8618.0	8430.7	8096.7
15°	7914.8	7960.9	8126.5	8379.1	8498.5	8422.5	8460.5	8558.3	8650.6	8650.6	8343.8
17.5°	8175.4	8216.2	8384.5	8493.1	8379.1	8178.1	8189.0	8313.9	8533.8	8764.6	8569.1
20°	8406.2	8444.2	8609.9	8506.7	8145.6	7852.3	7844.2	7996.2	8351.9	8837.9	8810.8
22.5°	8658.7	8713.0	8851.5	8517.5	7928.3	7556.4	7553.6	7711.1	8191.7	8911.2	9087.7
25°	9017.1	9101.3	9171.9	8612.6	7811.6	7363.6	7398.9	7548.2	8140.1	9030.7	9497.7
27.5°	9549.3	9617.2	9611.8	8810.8	7806.2	7284.8	7358.2	7531.9	8232.4	9242.5	9929.4
30°	10124.9	10160.2	10103.2	9087.7	7931.1	7333.7	7442.3	7648.7	8465.9	9592.8	10564.8
32.5°	10763.0	10806.4	10697.8	9503.1	8221.6	7694.8	7933.8	8034.2	8794.5	10097.8	11238.2
35°	11496.1	11580.3	11354.9	10051.6	9076.9	9011.7	9359.2	9228.9	9492.3	10695.1	11957.7
37.5°	12267.2	12269.9	11946.8	10863.5	10754.8	10866.2	11561.3	11154.0	10972.1	11360.3	12690.8
40°	12921.6	12905.3	12408.4	11957.7	12215.6	12658.2	13497.2	12872.7	12394.8	12253.6	13299.0
42.5°	13575.9	13516.2	13013.9	12652.8	13223.0	14132.5	15080.1	14314.5	13307.1	13065.5	13899.0
45°	14412.2	14393.2	13787.7	12929.7	14132.5	15783.4	17040.5	15799.7	13847.4	13537.9	14898.2
47.5°	15761.7	15669.3	14542.5	12908.0	14985.1	17982.7	19571.1	17670.4	14224.9	13548.8	16511.0
50°	17081.2	16967.2	15444.0	12905.3	15864.8	20263.4	22557.8	19943.0	14610.4	13613.9	18151.0
52.5°	18414.4	18414.4	16923.8	13212.1	16788.0	22810.3	26008.8	22775.0	15267.5	14466.5	20168.4
55°	19207.2	19419.0	18588.2	13730.7	17868.6	25807.8	29421.7	25832.3	16283.0	16006.0	22031.0
57.5°	18199.9	18596.3	18476.8	13369.6	18506.7	28009.9	32316.1	28151.0	16785.3	16187.9	21751.4
60°	14830.3	15381.5	15655.8	11545.0	17876.8	28265.1	32921.6	28303.1	15748.1	13785.0	18631.6
62.5°	9858.8	10312.3	10730.4	8248.7	15476.6	25427.7	29117.6	25435.9	13152.4	10287.8	12908.0
65°	4835.7	5172.4	5623.1	4876.5	12090.7	21246.3	22701.7	20554.0	9514.0	5758.9	6584.3
67.5°	1265.3	1360.3	1422.8	1892.5	8661.4	15264.8	14805.9	15034.0	6111.9	1881.6	1721.4
70°	657.1	662.5	659.8	782.0	5853.9	9701.4	10203.7	9440.7	4265.6	787.4	678.8
72.5°	469.7	472.4	464.3	526.7	2826.5	5558.0	5758.9	5696.5	2234.6	467.0	464.3
75°	306.8	309.5	304.1	309.5	426.3	632.6	583.8	613.6	372.0	296.0	296.0
77.5°	181.9	184.6	181.9	187.3	181.9	181.9	168.3	168.3	160.2	160.2	162.9
80°	122.2	122.2	119.5	124.9	114.0	114.0	108.6	105.9	97.7	95.0	95.0
82.5°	73.3	76.0	73.3	73.3	67.9	67.9	62.4	59.7	51.6	51.6	48.9
85°	38.0	38.0	35.3	35.3	29.9	27.2	21.7	21.7	16.3	13.6	13.6
87.5°	5.4	5.4	2.7	2.7	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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6508.3	6454.0	6372.5	6293.8	6220.5	6144.5	6057.6	5968.0	5892.0	5813.2	5772.5
5°	6902.0	6790.7	6578.9	6391.5	6223.2	6084.7	5935.4	5807.8	5688.3	5590.6	5541.7
7.5°	7257.7	7083.9	6763.5	6467.6	6239.5	6049.4	5843.1	5653.0	5492.8	5373.4	5327.2
10°	7586.2	7379.9	6959.0	6584.3	6318.2	6106.5	5853.9	5596.0	5384.2	5226.7	5188.7
12.5°	7852.3	7616.1	7113.8	6679.4	6364.4	6136.3	5913.7	5691.0	5482.0	5278.3	5245.7
15°	8088.5	7808.9	7230.5	6739.1	6348.1	6057.6	5870.2	5843.1	5843.1	5612.3	5547.1
17.5°	8292.2	7985.4	7325.6	6766.2	6244.9	5824.1	5710.0	5946.3	6212.3	6046.7	5900.1
20°	8525.7	8153.7	7404.3	6766.2	6054.9	5528.1	5517.3	5919.1	6312.8	6315.5	6160.8
22.5°	8761.9	8349.2	7496.6	6741.8	5794.2	5186.0	5386.9	5810.5	6160.8	6310.1	6204.2
25°	9144.7	8620.7	7643.2	6722.8	5490.1	4952.5	5270.2	5666.6	5962.5	6120.0	6052.1
27.5°	9630.8	8979.1	7865.9	6752.7	5188.7	4814.0	5145.3	5479.2	5748.0	5886.5	5837.6
30°	10173.8	9391.8	8104.8	6804.3	4971.5	4743.4	4995.9	5264.7	5503.7	5642.2	5620.4
32.5°	10866.2	9839.8	8311.2	6733.7	4849.3	4708.1	4838.5	5031.2	5262.0	5348.9	5367.9
35°	11694.3	10334.0	8468.7	6456.7	4738.0	4670.1	4667.4	4786.9	4949.8	5088.3	5101.8
37.5°	12457.3	10912.3	8642.4	5981.6	4537.1	4575.1	4466.5	4537.1	4697.3	4835.7	4890.0
40°	13212.1	11498.8	8884.1	5376.1	4273.7	4363.3	4235.7	4284.6	4412.2	4594.1	4681.0
42.5°	13945.2	12028.3	9139.3	4757.0	4010.3	4067.3	3972.3	4021.2	4154.2	4382.3	4480.1
45°	14743.5	12745.1	9337.5	4173.2	3782.3	3757.8	3681.8	3752.4	3953.3	4203.1	4319.9
47.5°	16253.1	13874.6	9467.9	3785.0	3660.1	3483.6	3396.7	3548.7	3776.8	4029.3	4170.5
50°	18096.7	15509.1	9429.8	3537.9	3554.2	3201.2	3171.3	3372.3	3616.6	3880.0	4034.8
52.5°	19557.5	17113.8	8998.1	3301.7	3347.8	3022.0	2935.1	3228.4	3461.9	3730.7	3890.9
55°	20673.4	17654.1	7673.1	3022.0	3011.1	2891.7	2709.8	3079.0	3307.1	3556.9	3730.7
57.5°	19763.8	16451.3	5688.3	2636.4	2571.3	2633.7	2457.2	2826.5	3117.0	3364.1	3518.9
60°	16402.4	13117.1	3168.6	2335.1	2150.4	2302.5	2275.3	2560.4	2910.7	3171.3	3304.4
62.5°	11135.0	8734.8	1878.9	1846.3	1743.1	1960.4	2104.3	2291.6	2636.4	2848.2	2973.1
65°	5549.8	4243.8	1249.0	1382.0	1395.6	1612.8	1884.3	2090.7	2378.5	2595.7	2720.6
67.5°	1610.1	1319.6	950.3	1056.2	1202.8	1376.6	1593.8	1838.2	2117.8	2375.8	2522.4
70°	695.1	703.2	754.8	879.7	1023.6	1202.8	1420.0	1659.0	1895.2	2093.4	2204.7
72.5°	491.4	510.5	567.5	695.1	830.8	1001.9	1219.1	1449.9	1621.0	1821.9	1938.6
75°	315.0	328.5	374.7	472.4	572.9	738.5	944.9	1156.7	1333.2	1477.1	1588.4
77.5°	173.8	176.5	214.5	271.5	339.4	445.3	597.3	763.0	893.3	974.8	1075.2
80°	100.5	100.5	119.5	154.8	195.5	260.7	344.8	426.3	505.0	556.6	605.5
82.5°	54.3	54.3	62.4	84.2	105.9	143.9	192.8	233.5	282.4	309.5	342.1
85°	16.3	16.3	21.7	29.9	38.0	54.3	76.0	97.7	119.5	138.5	157.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	5764.3	5726.3	5704.6	5677.5	5685.6	5661.2	5647.6	5655.7	5606.9	5655.7	5704.6
5°	5522.7	5468.4	5424.9	5389.6	5373.4	5340.8	5321.8	5321.8	5291.9	5340.8	5400.5
7.5°	5310.9	5267.5	5245.7	5224.0	5199.6	5169.7	5137.1	5126.3	5107.3	5158.9	5210.4
10°	5169.7	5175.1	5188.7	5218.6	5213.2	5194.1	5145.3	5118.1	5118.1	5177.9	5256.6
12.5°	5234.9	5291.9	5324.5	5378.8	5389.6	5373.4	5324.5	5302.8	5357.1	5446.7	5577.0
15°	5487.4	5525.4	5552.6	5596.0	5593.3	5579.7	5541.7	5558.0	5737.2	5911.0	6027.7
17.5°	5761.6	5718.2	5712.8	5739.9	5748.0	5731.8	5710.0	5783.3	6079.3	6242.2	6301.9
20°	5959.8	5810.5	5777.9	5788.8	5810.5	5802.4	5802.4	5921.8	6228.6	6304.7	6228.6
22.5°	6019.6	5807.8	5758.9	5761.6	5791.5	5794.2	5807.8	5932.7	6111.9	6114.6	5997.8
25°	5924.5	5720.9	5685.6	5691.0	5726.3	5723.6	5729.0	5799.6	5878.4	5845.8	5758.9
27.5°	5745.3	5568.8	5558.0	5587.9	5634.0	5609.6	5593.3	5612.3	5650.3	5609.6	5533.5
30°	5541.7	5392.4	5397.8	5454.8	5503.7	5463.0	5422.2	5433.1	5435.8	5392.4	5305.5
32.5°	5327.2	5215.9	5234.9	5294.6	5351.6	5308.2	5264.7	5259.3	5207.7	5156.1	5072.0
35°	5112.7	5069.3	5093.7	5142.6	5191.4	5156.1	5129.0	5112.7	5001.4	4925.3	4854.8
37.5°	4917.2	4949.8	4993.2	5023.1	5039.4	5036.7	5020.4	4982.4	4835.7	4746.1	4653.8
40°	4743.4	4843.9	4890.0	4903.6	4928.1	4922.6	4919.9	4865.6	4672.8	4577.8	4471.9
42.5°	4585.9	4727.1	4805.9	4819.5	4833.0	4835.7	4827.6	4748.9	4528.9	4417.6	4317.1
45°	4433.9	4618.5	4719.0	4705.4	4724.4	4724.4	4732.6	4629.4	4387.7	4273.7	4167.8
47.5°	4300.9	4518.1	4610.4	4594.1	4605.0	4613.1	4621.2	4501.8	4233.0	4124.4	4015.8
50°	4178.7	4409.5	4488.2	4493.6	4493.6	4512.6	4509.9	4393.2	4102.6	3985.9	3877.3
52.5°	4048.3	4298.1	4382.3	4417.6	4428.5	4436.6	4398.6	4262.8	3969.6	3828.4	3727.9
55°	3896.3	4184.1	4260.1	4306.3	4328.0	4322.6	4271.0	4132.5	3833.8	3692.7	3578.6
57.5°	3665.5	3939.7	4048.3	4070.1	4105.4	4083.6	4023.9	3907.2	3616.6	3475.4	3358.7
60°	3413.0	3611.2	3698.1	3717.1	3689.9	3698.1	3689.9	3578.6	3326.1	3214.8	3095.3
62.5°	3081.7	3258.2	3350.5	3375.0	3328.8	3358.7	3347.8	3209.3	2956.8	2840.1	2734.2
65°	2831.9	3024.7	3133.3	3146.9	3133.3	3146.9	3108.9	2940.5	2701.6	2582.1	2473.5
67.5°	2636.4	2834.7	2948.7	2986.7	2973.1	2970.4	2910.7	2715.2	2468.1	2337.8	2199.3
70°	2299.8	2473.5	2620.2	2712.5	2712.5	2660.9	2546.8	2364.9	2166.7	2055.4	1946.8
72.5°	2036.4	2256.3	2400.2	2495.3	2514.3	2484.4	2324.2	2131.4	1903.3	1792.0	1678.0
75°	1678.0	1892.5	2047.2	2172.1	2196.6	2164.0	1979.4	1789.3	1577.5	1468.9	1354.9
77.5°	1121.4	1249.0	1373.9	1487.9	1463.5	1485.2	1360.3	1216.4	1086.1	1004.6	953.0
80°	632.6	716.8	754.8	817.3	817.3	817.3	735.8	667.9	594.6	548.5	496.9
82.5°	358.4	412.7	429.0	480.6	494.2	496.9	442.6	399.1	353.0	328.5	293.2
85°	165.6	195.5	198.2	228.1	238.9	260.7	236.2	206.4	179.2	168.3	146.6
87.5°	5.4	16.3	21.7	40.7	54.3	62.4	67.9	67.9	57.0	51.6	43.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640849

CATALOG NUMBER: GWS-SA5E-760-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	5764.3	5829.5	5905.5	5959.8	6057.6	6139.0	6223.2	6315.5	6383.4	6367.1
5°	5473.8	5582.4	5720.9	5848.5	6030.4	6215.1	6418.7	6627.8	6750.0	6744.5
7.5°	5310.9	5465.7	5634.0	5805.1	6019.6	6285.7	6597.9	6923.7	7089.3	7097.5
10°	5397.8	5563.4	5677.5	5821.4	6046.7	6380.7	6755.4	7146.4	7336.4	7374.4
12.5°	5672.0	5658.4	5650.3	5753.5	6025.0	6448.6	6907.4	7374.4	7588.9	7635.1
15°	5932.7	5653.0	5484.7	5555.3	5927.2	6492.0	7056.8	7624.2	7865.9	7914.8
17.5°	5981.6	5558.0	5245.7	5294.6	5772.5	6505.6	7200.7	7868.6	8129.3	8175.4
20°	5845.8	5435.8	5072.0	5004.1	5577.0	6470.3	7290.3	8072.2	8357.3	8406.2
22.5°	5674.7	5327.2	4941.6	4765.2	5338.1	6435.0	7390.7	8286.7	8615.3	8658.7
25°	5495.5	5188.7	4819.5	4550.7	5066.5	6413.3	7559.1	8569.1	8965.5	9017.1
27.5°	5305.5	5020.4	4713.6	4447.5	4816.7	6440.4	7798.0	9025.3	9476.0	9549.3
30°	5101.8	4852.0	4645.7	4412.2	4645.7	6464.9	8061.4	9492.3	10021.7	10124.9
32.5°	4890.0	4697.3	4575.1	4428.5	4539.8	6407.8	8292.2	10016.3	10673.4	10763.0
35°	4678.3	4539.8	4485.5	4458.3	4398.6	6198.8	8479.5	10545.8	11417.4	11496.1
37.5°	4480.1	4376.9	4360.6	4390.5	4181.4	5856.7	8696.7	11219.1	12147.7	12267.2
40°	4295.4	4200.4	4197.7	4192.2	3942.4	5389.6	8990.0	11903.4	12867.3	12921.6
42.5°	4124.4	4004.9	4026.6	3961.5	3747.0	4884.6	9266.9	12487.1	13537.9	13575.9
45°	3972.3	3814.8	3839.3	3757.8	3654.6	4355.2	9511.3	13176.8	14387.8	14412.2
47.5°	3825.7	3657.4	3589.5	3584.0	3638.3	3866.4	9750.2	14504.5	15718.2	15761.7
50°	3689.9	3508.0	3315.2	3434.7	3537.9	3499.9	10048.9	15927.3	17092.1	17081.2
52.5°	3559.6	3320.7	3046.4	3277.2	3277.2	3228.4	9964.7	16790.7	18227.0	18414.4
55°	3410.3	3019.3	2766.8	3013.9	2894.4	2984.0	8474.1	17073.1	18941.1	19207.2
57.5°	3114.3	2647.3	2427.4	2560.4	2381.2	2766.8	6087.4	15672.1	17727.4	18199.9
60°	2829.2	2373.1	2229.2	2204.7	1971.2	2256.3	3945.2	12269.9	14591.4	14830.3
62.5°	2495.3	2136.9	2014.7	1827.3	1585.7	1642.7	2389.4	8075.0	9804.5	9858.8
65°	2242.7	1935.9	1702.4	1479.8	1297.9	1192.0	1411.9	3893.6	4900.9	4835.7
67.5°	1925.1	1659.0	1436.3	1276.1	1126.8	993.8	939.5	1156.7	1308.7	1265.3
70°	1713.3	1458.1	1243.6	1091.5	953.0	820.0	725.0	681.5	667.9	657.1
72.5°	1477.1	1254.4	1031.8	885.2	754.8	632.6	545.8	494.2	480.6	469.7
75°	1178.4	969.3	765.7	627.2	513.2	426.3	369.3	325.8	317.7	306.8
77.5°	779.3	621.8	456.2	372.0	304.1	257.9	219.9	192.8	187.3	181.9
80°	429.0	358.4	279.7	225.4	181.9	157.5	143.9	127.6	124.9	122.2
82.5°	255.2	214.5	160.2	127.6	105.9	95.0	86.9	78.7	76.0	73.3
85°	127.6	100.5	70.6	59.7	54.3	48.9	48.9	40.7	38.0	38.0
87.5°	32.6	27.2	16.3	13.6	13.6	13.6	10.9	8.1	8.1	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)