

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: P643320

Luminaire Tested: GWS-SA6E-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643320  
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-SAGE-760-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

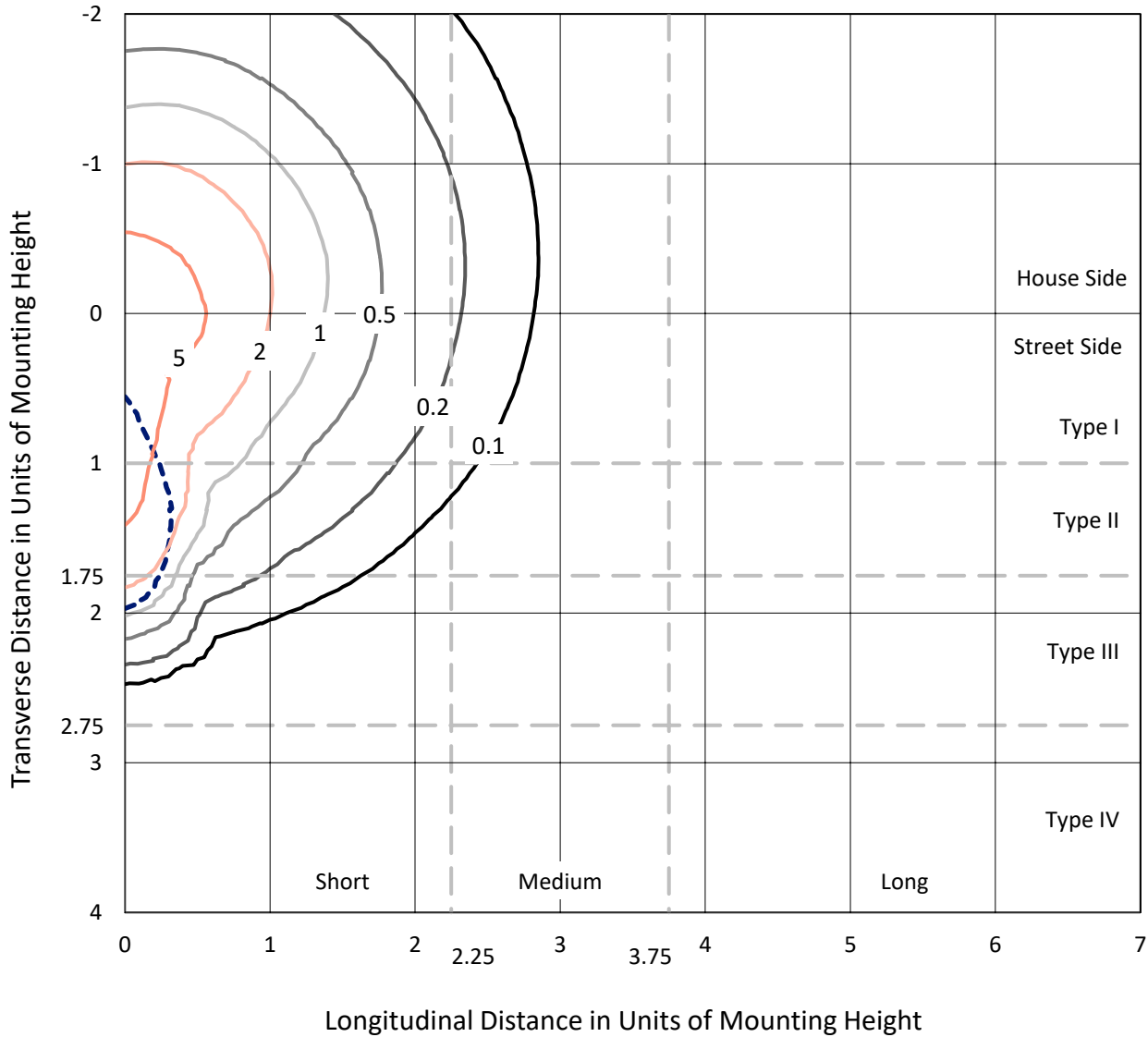
Lumens per Lamp: N/A  
Luminaire Lumens: 35153.8 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

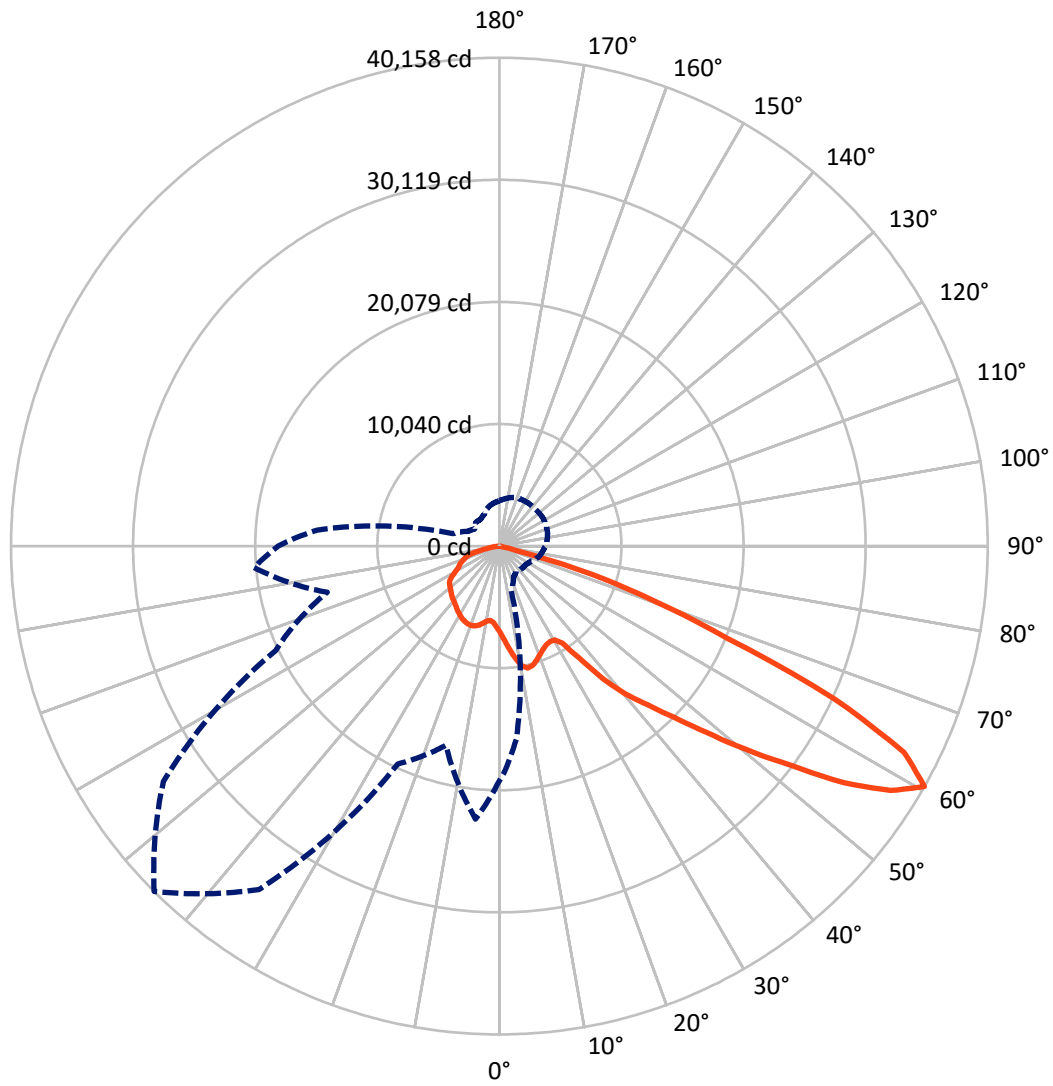
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 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
<b>House Side</b>	Lumens	12025.8	0.0	12025.8
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	23128.0	0.0	23128.0
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	35153.8	0.0	35153.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	692.7	2.0
10°-20°	2221.8	6.3
20°-30°	3618.5	10.3
30°-40°	5083.2	14.5
40°-50°	6955.8	19.8
50°-60°	8924.0	25.4
60°-70°	6009.0	17.1
70°-80°	1502.3	4.3
80°-90°	146.5	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°	35153.8	100.0
0°-180°	35153.8	100.0

**Coefficient of Utilization**



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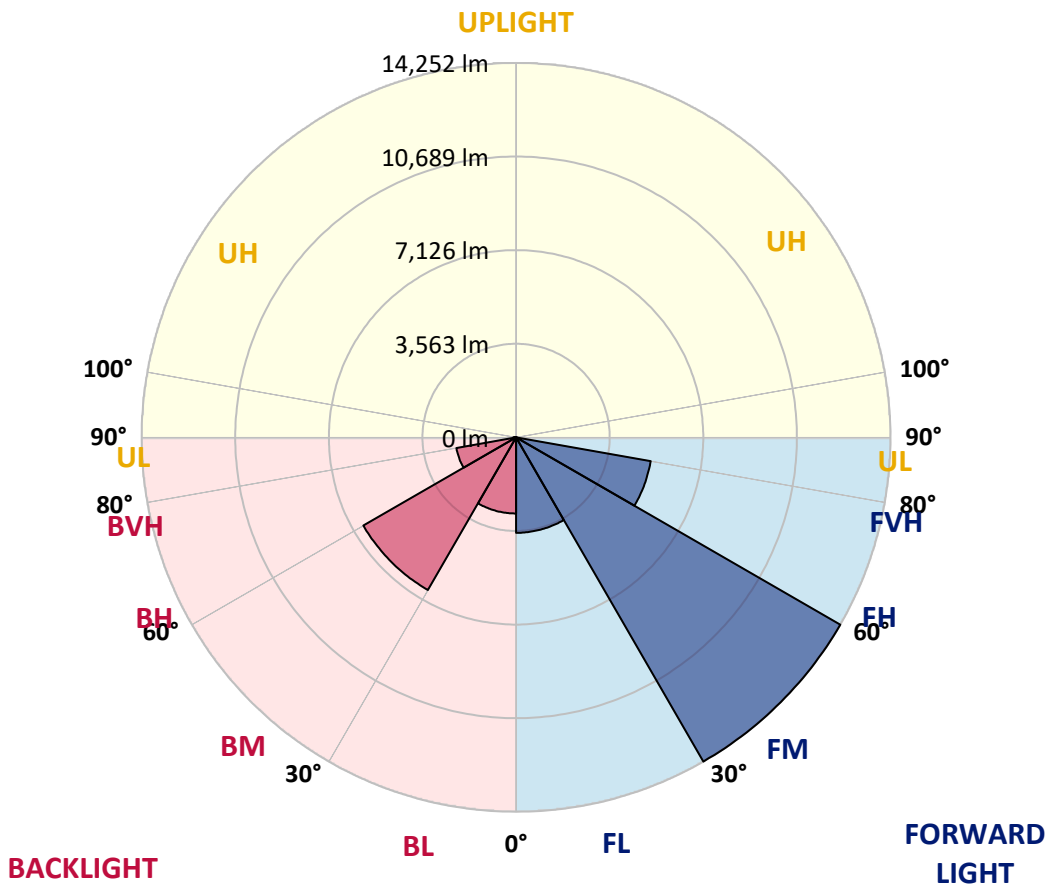
CATALOG NUMBER: GWS-SA6E-760-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3634.1	10.3			
FM (30°-60°)	14251.6	40.5			
FH (60°-80°)	5204.2	14.8			G3/7500
FVH (80°-90°)	38.1	0.1			G1/100
BL (0°-30°)	2899.0	8.2	B4/5000		
BM (30°-60°)	6711.4	19.1	B4/8500		
BH (60°-80°)	2307.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	108.4	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°	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1
2.5°	7501.3	7485.1	7468.9	7342.7	7310.3	7219.6	7154.9	7074.0	6957.4	6892.7	6837.6
5°	7970.8	7944.9	7857.4	7598.4	7430.1	7245.5	7093.4	6925.0	6747.0	6630.4	6539.8
7.5°	8414.3	8407.8	8258.9	7831.5	7559.6	7294.1	7086.9	6840.9	6585.1	6410.3	6293.7
10°	8825.5	8776.9	8598.8	8042.0	7685.8	7381.5	7158.1	6886.2	6588.3	6352.0	6196.6
12.5°	9188.1	9126.5	8880.5	8236.2	7795.9	7420.4	7177.6	6954.2	6756.7	6559.2	6381.1
15°	9485.9	9411.4	9162.2	8417.5	7893.1	7397.7	7057.8	6882.9	6950.9	7038.3	6840.9
17.5°	9764.3	9686.6	9382.3	8550.3	7922.2	7258.5	6763.2	6688.7	7031.9	7430.1	7339.4
20°	9997.4	9910.0	9557.1	8615.0	7870.4	6993.0	6381.1	6510.6	6963.9	7439.8	7585.5
22.5°	10250.0	10178.7	9754.6	8708.9	7805.6	6627.2	6060.6	6377.9	6847.3	7265.0	7485.1
25°	10654.6	10567.2	10062.2	8874.0	7773.3	6284.0	5830.8	6248.4	6685.5	7064.2	7235.8
27.5°	11240.6	11078.8	10483.1	9162.2	7808.9	5960.3	5685.1	6089.8	6497.7	6821.4	6960.6
30°	11878.4	11684.2	10949.3	9460.0	7860.7	5762.8	5607.4	5908.5	6209.5	6533.3	6685.5
32.5°	12632.8	12461.2	11447.8	9683.4	7750.6	5672.1	5549.1	5711.0	5950.5	6209.5	6335.8
35°	13532.8	13225.2	11991.7	9864.7	7394.5	5539.4	5497.3	5494.1	5620.3	5872.8	6015.3
37.5°	14500.8	14170.6	12661.9	10058.9	6840.9	5328.9	5374.3	5238.3	5354.8	5555.6	5717.4
40°	15294.0	14947.6	13338.5	10324.4	6148.0	4998.7	5102.3	4956.6	5027.9	5235.1	5416.4
42.5°	16071.0	15701.9	13969.9	10625.5	5477.9	4675.0	4726.8	4671.7	4694.4	4911.3	5163.8
45°	17090.8	16676.4	14746.9	10839.2	4875.7	4419.2	4370.6	4276.8	4396.5	4678.2	4946.9
47.5°	18793.7	18298.4	16019.2	10978.4	4438.6	4273.5	4050.1	3995.1	4144.0	4458.1	4736.5
50°	20784.8	20357.5	18052.4	10971.9	4111.6	4150.5	3739.3	3690.8	3936.8	4254.1	4548.7
52.5°	22416.5	21982.7	19790.9	10648.2	3842.9	3888.3	3558.0	3422.0	3758.7	4053.4	4348.0
55°	23734.2	23245.3	20590.6	9294.9	3503.0	3470.6	3360.5	3111.2	3535.4	3852.6	4127.8
57.5°	23025.2	22442.4	19622.6	7067.5	3153.3	2949.4	3020.6	2836.1	3231.0	3629.2	3894.7
60°	19305.3	18780.8	15941.5	3762.0	2774.5	2463.7	2612.7	2641.8	2897.6	3360.5	3632.5
62.5°	13260.8	12878.8	10803.6	2282.4	2188.6	1978.1	2211.2	2421.7	2612.7	3004.4	3240.7
65°	6488.0	6374.7	5403.4	1463.4	1531.3	1599.3	1832.4	2088.2	2369.9	2713.0	2962.3
67.5°	1787.1	1800.1	1638.2	1142.8	1207.6	1395.4	1579.9	1783.9	2065.5	2382.8	2635.3
70°	786.7	799.7	825.6	880.6	1003.6	1175.2	1366.2	1576.7	1835.7	2101.1	2344.0
72.5°	547.1	560.1	598.9	670.2	780.2	942.1	1123.4	1324.1	1592.9	1816.2	2017.0
75°	336.7	346.4	382.0	443.5	518.0	641.0	819.1	1003.6	1240.0	1443.9	1622.0
77.5°	178.1	171.6	194.3	236.3	301.1	365.8	485.6	602.2	770.5	935.6	1084.6
80°	97.1	93.9	106.8	129.5	148.9	200.7	281.7	359.4	456.5	550.4	631.3
82.5°	42.1	38.9	42.1	55.0	68.0	97.1	142.5	197.5	252.5	317.3	369.1
85°	0.0	0.0	0.0	3.2	16.2	25.9	48.6	71.2	103.6	142.5	174.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	29.1
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°	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1
2.5°	6805.2	6724.3	6717.8	6653.1	6659.6	6662.8	6598.0	6572.1	6594.8	6620.7	6607.8
5°	6507.4	6423.2	6387.6	6326.1	6319.6	6290.5	6264.6	6232.2	6254.9	6277.5	6290.5
7.5°	6248.4	6193.4	6170.7	6154.5	6161.0	6148.0	6096.2	6067.1	6063.9	6073.6	6086.5
10°	6164.2	6118.9	6148.0	6193.4	6225.7	6248.4	6193.4	6144.8	6099.5	6080.0	6080.0
12.5°	6345.5	6287.2	6345.5	6394.1	6458.8	6475.0	6413.5	6361.7	6345.5	6364.9	6403.8
15°	6747.0	6611.0	6607.8	6636.9	6688.7	6714.6	6656.3	6630.4	6630.4	6753.4	6850.6
17.5°	7148.4	6925.0	6831.1	6815.0	6847.3	6857.0	6808.5	6785.8	6844.1	7083.7	7265.0
20°	7430.1	7158.1	6954.2	6915.3	6925.0	6928.3	6889.4	6873.2	6957.4	7248.8	7400.9
22.5°	7400.9	7200.2	6950.9	6902.4	6918.6	6912.1	6876.5	6870.0	6938.0	7190.5	7261.7
25°	7200.2	7044.8	6834.4	6802.0	6827.9	6824.7	6789.1	6772.9	6802.0	6970.4	6976.8
27.5°	6970.4	6834.4	6653.1	6643.4	6685.5	6708.1	6646.6	6598.0	6588.3	6701.6	6675.7
30°	6695.2	6594.8	6449.1	6455.6	6533.3	6546.2	6471.8	6400.6	6381.1	6442.6	6407.0
32.5°	6368.2	6335.8	6258.1	6274.3	6348.8	6374.7	6297.0	6222.5	6199.8	6219.3	6144.8
35°	6089.8	6076.8	6083.3	6112.4	6177.2	6196.6	6131.8	6073.6	6041.2	5973.2	5876.1
37.5°	5801.6	5837.2	5931.1	5986.2	6021.8	6015.3	5979.7	5937.6	5885.8	5759.5	5639.7
40°	5532.9	5623.6	5791.9	5853.4	5866.4	5869.6	5843.7	5808.1	5743.3	5575.0	5439.0
42.5°	5325.7	5426.1	5649.5	5743.3	5749.8	5756.3	5730.4	5701.3	5610.6	5387.2	5254.5
45°	5108.8	5241.5	5503.8	5617.1	5610.6	5607.4	5584.7	5571.8	5464.9	5205.9	5060.2
47.5°	4924.3	5079.7	5361.3	5458.4	5455.2	5452.0	5435.8	5435.8	5328.9	5047.3	4882.2
50°	4743.0	4921.0	5215.6	5296.6	5303.0	5296.6	5290.1	5299.8	5173.5	4872.5	4710.6
52.5°	4545.5	4746.2	5053.8	5128.2	5167.1	5183.3	5183.3	5160.6	5011.7	4697.6	4519.6
55°	4328.6	4519.6	4875.7	4976.1	5008.4	5037.6	5037.6	4992.2	4853.0	4535.8	4344.7
57.5°	4059.8	4228.2	4509.9	4610.2	4687.9	4707.3	4707.3	4632.9	4519.6	4215.2	4059.8
60°	3768.5	3914.2	4105.2	4212.0	4270.3	4231.4	4260.6	4241.1	4150.5	3868.8	3739.3
62.5°	3380.0	3528.9	3739.3	3849.4	3875.3	3836.4	3875.3	3872.1	3749.0	3496.5	3341.1
65°	3101.5	3247.2	3454.4	3596.9	3639.0	3629.2	3655.1	3616.3	3464.1	3224.6	3075.6
67.5°	2771.3	2926.7	3166.3	3324.9	3412.3	3422.0	3457.7	3376.7	3221.3	2959.1	2771.3
70°	2457.3	2590.0	2774.5	2923.5	3046.5	3108.0	3114.5	2997.9	2803.7	2586.8	2450.8
72.5°	2127.0	2263.0	2486.4	2648.3	2803.7	2874.9	2874.9	2732.5	2522.0	2282.4	2136.8
75°	1725.6	1851.9	2055.8	2230.6	2408.7	2499.4	2496.1	2373.1	2140.0	1913.4	1761.2
77.5°	1168.7	1262.6	1392.1	1524.9	1550.8	1622.0	1657.6	1502.2	1372.7	1249.7	1113.7
80°	679.9	738.2	809.4	883.8	900.0	922.7	864.4	806.1	738.2	657.2	595.7
82.5°	398.2	437.1	472.7	531.0	540.7	547.1	495.3	469.4	414.4	365.8	327.0
85°	194.3	207.2	239.6	268.7	255.8	249.3	226.6	200.7	178.1	158.6	139.2
87.5°	38.9	38.9	58.3	55.0	45.3	38.9	22.7	29.1	6.5	6.5	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1
2.5°	6649.8	6704.9	6772.9	6863.5	6967.1	7077.2	7184.0	7265.0	7345.9	7465.7	7446.3
5°	6309.9	6403.8	6510.6	6649.8	6818.2	7009.2	7222.9	7436.6	7666.4	7860.7	7944.9
7.5°	6112.4	6216.0	6342.3	6523.6	6740.5	6973.6	7274.7	7621.1	7993.4	8249.2	8407.8
10°	6112.4	6245.2	6410.3	6585.1	6776.1	7015.7	7388.0	7821.8	8301.0	8637.7	8822.2
12.5°	6465.3	6598.0	6633.7	6627.2	6734.0	6999.5	7478.6	8032.3	8605.3	8961.4	9188.1
15°	7015.7	7061.0	6792.3	6546.2	6562.4	6882.9	7520.7	8200.6	8867.5	9294.9	9540.9
17.5°	7384.8	7265.0	6785.8	6355.2	6264.6	6685.5	7520.7	8362.5	9146.0	9628.4	9858.2
20°	7413.9	7116.0	6620.7	6170.7	5937.6	6423.2	7468.9	8485.5	9414.7	9948.9	10194.9
22.5°	7158.1	6863.5	6445.9	6012.1	5668.9	6105.9	7384.8	8579.4	9644.5	10250.0	10554.3
25°	6866.8	6620.7	6267.8	5850.2	5484.3	5785.4	7307.1	8738.0	9965.1	10657.9	10965.4
27.5°	6581.9	6374.7	6054.1	5714.2	5380.7	5507.0	7258.5	8971.1	10347.1	11237.4	11502.9
30°	6303.4	6115.7	5824.3	5584.7	5325.7	5325.7	7216.4	9239.9	10852.1	11888.1	12153.6
32.5°	6021.8	5843.7	5607.4	5458.4	5293.3	5254.5	7099.9	9492.4	11373.4	12600.4	12872.3
35°	5759.5	5581.5	5400.2	5338.7	5277.1	5199.4	6811.7	9689.9	11881.7	13432.4	13665.5
37.5°	5513.5	5341.9	5205.9	5189.7	5196.2	5050.5	6358.5	9855.0	12516.2	14283.9	14406.9
40°	5299.8	5108.8	5002.0	4998.7	5031.1	4810.9	5785.4	10091.3	13241.4	15005.9	14954.1
42.5°	5108.8	4908.1	4778.6	4807.7	4788.3	4571.4	5225.3	10308.2	13872.7	15682.5	15578.9
45°	4921.0	4726.8	4545.5	4587.6	4564.9	4422.4	4749.4	10466.9	14572.0	16495.1	16508.1
47.5°	4739.7	4548.7	4367.4	4315.6	4312.4	4377.1	4383.6	10518.7	15711.6	17803.1	17508.5
50°	4571.4	4380.4	4192.6	4017.8	4085.7	4286.5	4111.6	10479.8	17417.8	19247.0	18424.7
52.5°	4396.5	4215.2	4008.0	3694.0	3872.1	4069.6	3868.8	10340.6	18460.3	20522.6	20030.5
55°	4195.8	4024.2	3742.6	3360.5	3577.4	3619.5	3619.5	8993.8	18903.8	21785.2	22089.5
57.5°	3927.1	3700.5	3253.7	2946.1	3140.4	2978.5	3354.1	6293.7	18172.1	21387.0	22568.7
60°	3622.8	3380.0	2907.3	2687.1	2745.4	2460.5	2858.7	3946.5	15060.9	18198.0	20244.2
62.5°	3221.3	2997.9	2606.2	2434.6	2314.8	2007.3	2301.9	2496.1	10324.4	13513.4	14908.7
65°	2952.6	2706.6	2356.9	2130.3	1884.2	1615.5	1528.1	1638.2	5552.3	7562.8	8504.9
67.5°	2635.3	2392.5	2062.3	1777.4	1579.9	1385.7	1233.5	1194.6	1903.7	2518.8	2726.0
70°	2334.2	2101.1	1826.0	1560.5	1363.0	1172.0	1023.1	916.2	880.6	874.1	861.2
72.5°	2026.7	1809.8	1579.9	1333.9	1116.9	942.1	809.4	686.4	634.6	618.4	602.2
75°	1660.8	1489.3	1259.4	993.9	819.1	657.2	553.6	472.7	427.4	411.2	391.7
77.5°	1068.4	990.7	790.0	641.0	495.3	391.7	336.7	284.9	255.8	249.3	233.1
80°	569.8	531.0	437.1	369.1	294.6	239.6	210.4	181.3	165.1	158.6	152.2
82.5°	317.3	288.1	242.8	213.7	171.6	145.7	129.5	116.6	106.8	103.6	100.4
85°	142.5	123.0	97.1	90.7	80.9	74.5	71.2	64.8	61.5	58.3	55.0
87.5°	6.5	13.0	16.2	13.0	13.0	19.4	22.7	22.7	19.4	19.4	16.2
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: P643320

CATALOG NUMBER: GWS-SA6E-760-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1	7090.1
2.5°	7566.1	7663.2	7672.9	7705.3	7663.2	7653.5	7585.5	7546.6	7511.0	7501.3
5°	8155.3	8349.5	8427.2	8482.3	8430.5	8404.6	8255.7	8100.3	8012.8	7970.8
7.5°	8760.7	9052.1	9204.2	9272.2	9278.7	9162.2	8906.4	8615.0	8469.3	8414.3
10°	9301.4	9660.7	9861.5	9991.0	9945.6	9803.2	9453.5	9058.6	8874.0	8825.5
12.5°	9702.8	10046.0	10201.4	10285.6	10282.3	10204.6	9874.4	9447.1	9236.6	9188.1
15°	9961.8	10165.8	10175.5	10194.9	10250.0	10353.6	10182.0	9787.0	9553.9	9485.9
17.5°	10165.8	10084.8	9932.7	9880.9	10003.9	10292.0	10395.6	10075.1	9822.6	9764.3
20°	10295.3	9887.4	9618.6	9518.3	9660.7	10130.2	10525.1	10334.1	10071.9	9997.4
22.5°	10395.6	9702.8	9269.0	9201.0	9349.9	9955.3	10657.9	10641.7	10353.6	10250.0
25°	10554.3	9579.8	9022.9	8974.4	9113.6	9871.2	10835.9	11059.3	10803.6	10654.6
27.5°	10803.6	9566.8	8896.7	8880.5	9071.5	9945.6	11091.7	11671.2	11350.7	11240.6
30°	11150.0	9689.9	8925.8	8958.2	9191.3	10214.3	11489.9	12370.5	12050.0	11878.4
32.5°	11648.6	10020.1	9369.4	9508.6	9680.2	10644.9	12072.7	13128.1	12885.3	12632.8
35°	12305.8	10926.6	10680.5	11273.0	11111.1	11587.0	12775.2	14047.6	13752.9	13532.8
37.5°	13183.1	12784.9	13011.6	13827.4	13435.7	13367.7	13633.2	14882.8	14721.0	14500.8
40°	14413.4	14494.3	14912.0	15983.6	15417.0	14980.0	14685.3	15510.9	15566.0	15294.0
42.5°	15229.2	15601.6	16608.4	17825.7	17045.5	15999.8	15566.0	16313.8	16317.1	16071.0
45°	15533.6	16508.1	18612.4	20014.3	18709.6	16582.5	16051.6	17404.9	17372.5	17090.8
47.5°	15423.5	17272.1	20694.2	22837.4	20846.3	16996.9	15983.6	18958.9	19221.1	18793.7
50°	15193.6	18039.4	23125.5	26295.1	23468.7	17437.2	15880.0	20681.2	21115.0	20784.8
52.5°	15426.7	18894.1	26000.4	29869.3	26758.0	18139.8	16579.3	22892.4	22814.7	22416.5
55°	16164.9	19904.2	29493.7	34359.7	30371.1	19327.9	18376.1	25000.1	24210.1	23734.2
57.5°	16129.3	20626.2	32556.4	37911.2	33514.7	20302.4	19000.9	25223.4	23627.4	23025.2
60°	14640.0	20296.0	33721.9	40158.1	34463.3	19765.0	16945.1	22529.8	19936.6	19305.3
62.5°	10926.6	18010.3	31462.1	37344.7	31779.4	17071.4	12742.8	16171.4	14326.0	13260.8
65°	6989.8	14089.6	26450.5	30254.5	26194.7	13056.9	7588.7	8670.1	6792.3	6488.0
67.5°	2975.3	9945.6	20561.4	20221.5	19596.7	8459.6	2929.9	2441.1	1819.5	1787.1
70°	984.2	6766.4	12674.9	13487.5	11703.6	5827.5	968.0	819.1	815.9	786.7
72.5°	644.3	3632.5	7135.5	7944.9	7530.4	3354.1	586.0	547.1	560.1	547.1
75°	385.3	790.0	1201.1	1560.5	1201.1	563.3	352.9	346.4	352.9	336.7
77.5°	226.6	220.2	213.7	213.7	210.4	194.3	178.1	171.6	174.8	178.1
80°	145.7	139.2	132.7	129.5	113.3	106.8	100.4	93.9	93.9	97.1
82.5°	93.9	87.4	80.9	71.2	58.3	48.6	45.3	38.9	38.9	42.1
85°	48.6	38.9	29.1	22.7	13.0	6.5	0.0	0.0	0.0	0.0
87.5°	9.7	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

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