

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: P641340

Luminaire Tested: GWS-SA5F-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641340  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

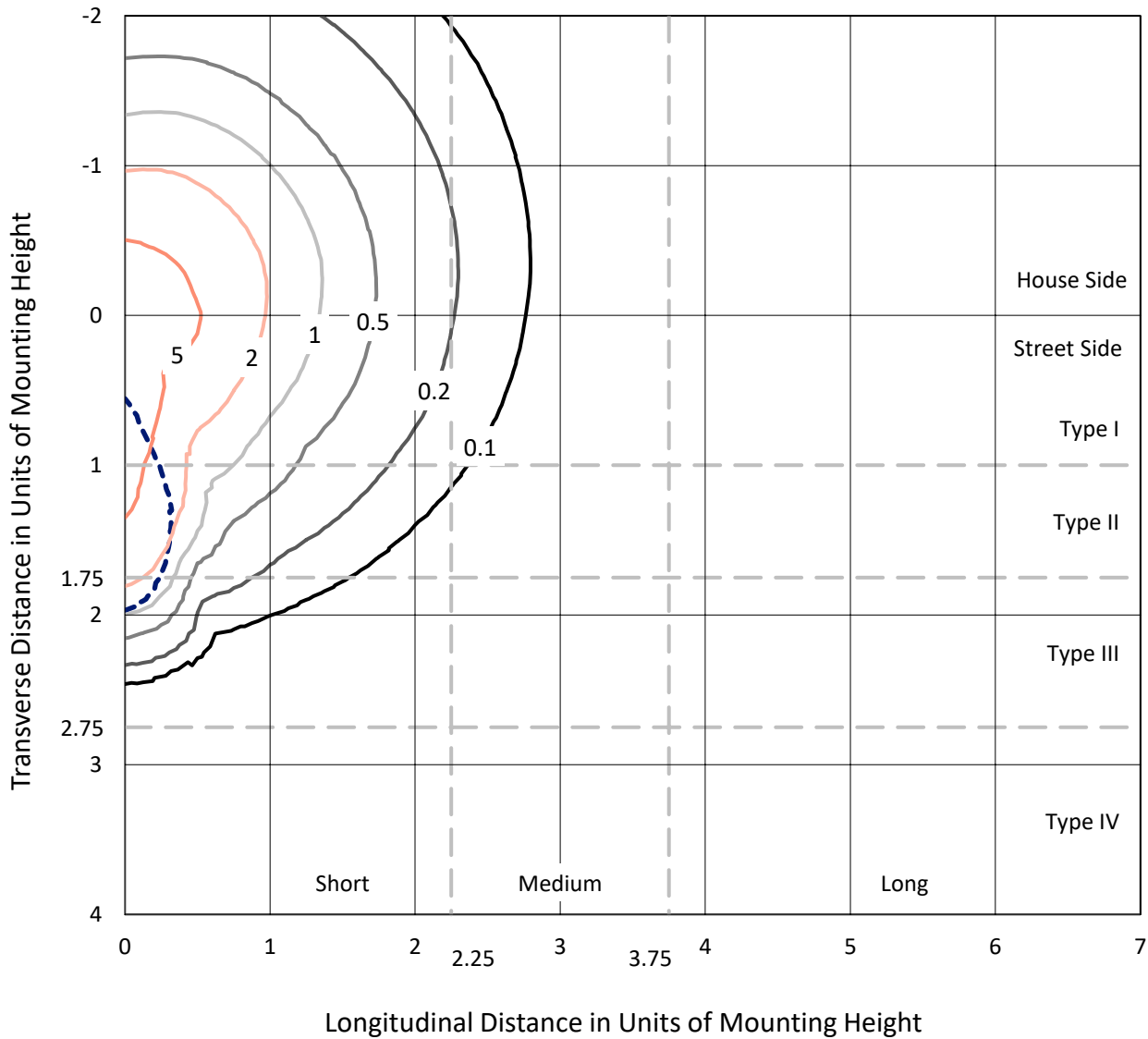
Lumens per Lamp: N/A  
Luminaire Lumens: 32777.3 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

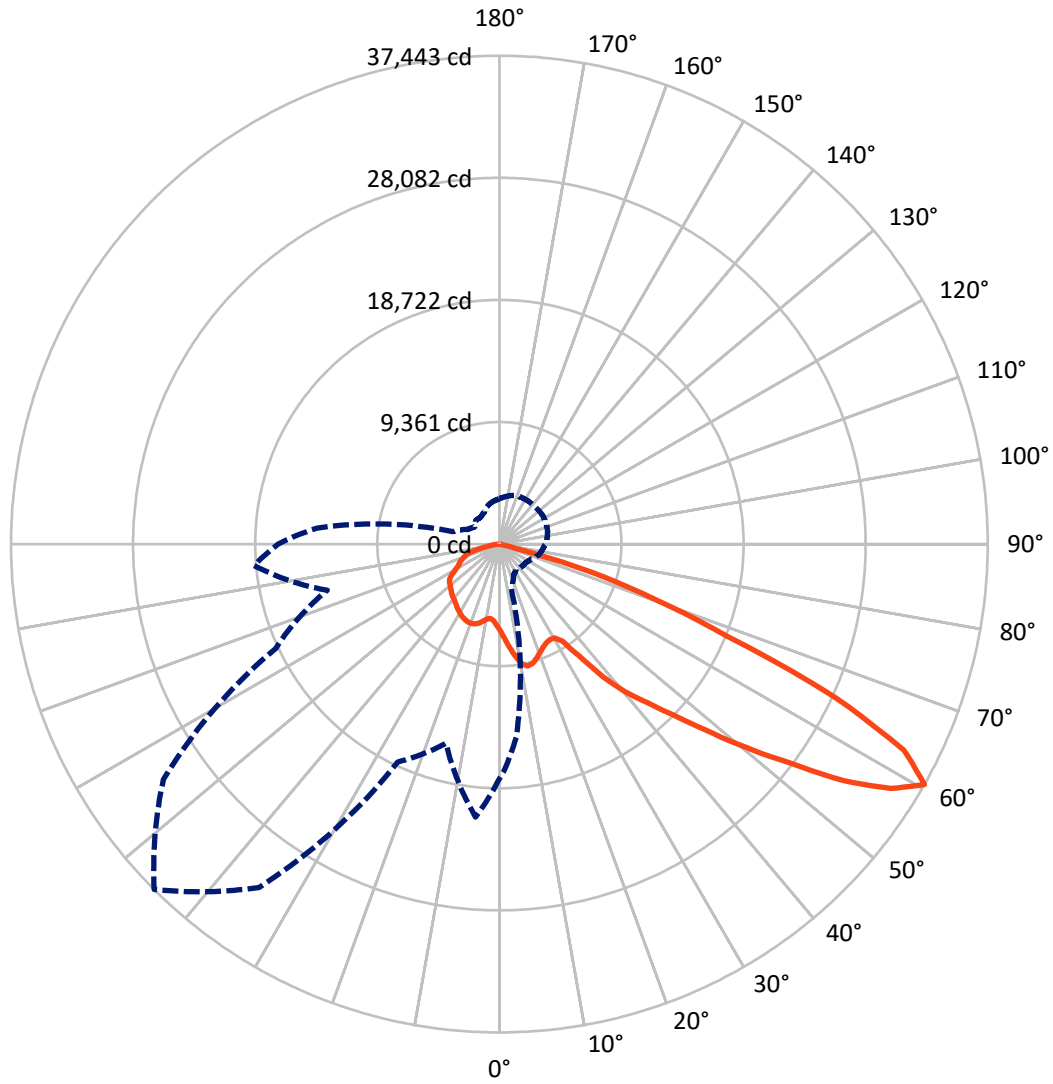
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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
<b>House Side</b>	Lumens	11212.8	0.0	11212.8
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	21564.5	0.0	21564.5
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	32777.3	0.0	32777.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.9	2.0
10°-20°	2071.6	6.3
20°-30°	3373.9	10.3
30°-40°	4739.6	14.5
40°-50°	6485.6	19.8
50°-60°	8320.7	25.4
60°-70°	5602.8	17.1
70°-80°	1400.7	4.3
80°-90°	136.6	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°	32777.3	100.0
0°-180°	32777.3	100.0

**Coefficient of Utilization**



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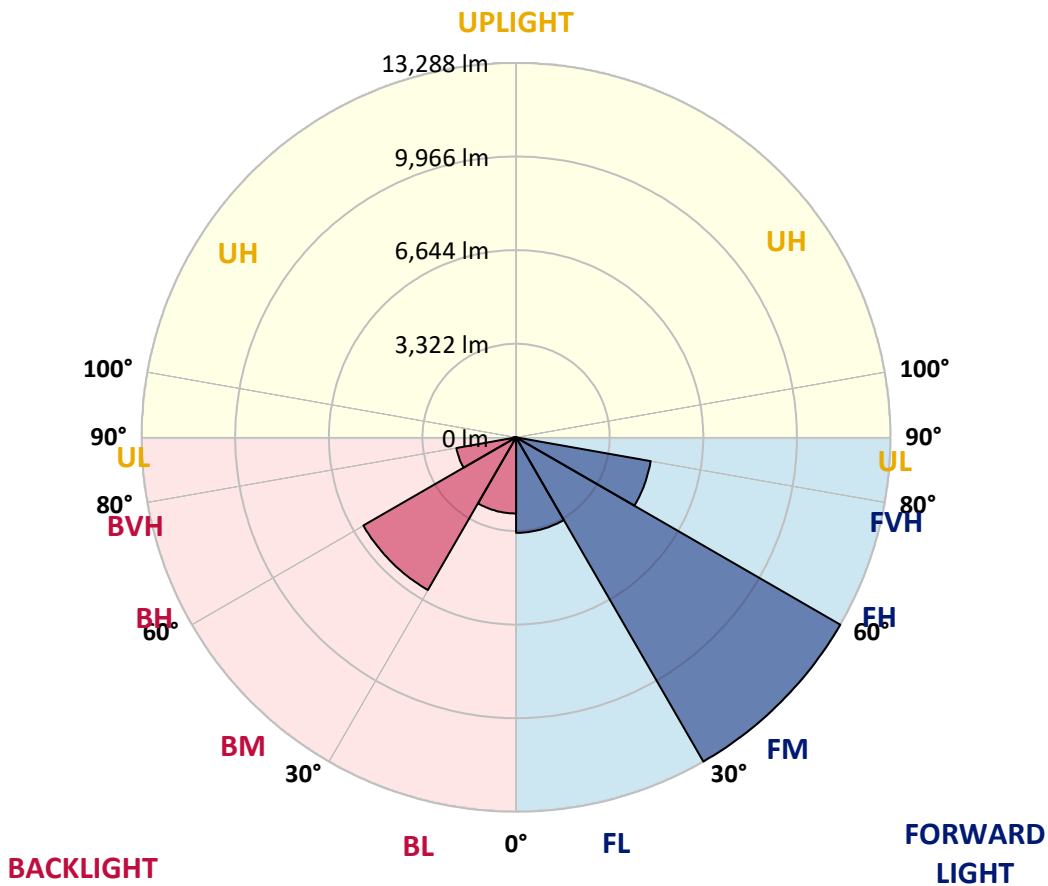
CATALOG NUMBER: GWS-SA5F-760-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3388.4	10.3			
FM (30°-60°)	13288.2	40.5			
FH (60°-80°)	4852.4	14.8			G2/5000
FVH (80°-90°)	35.5	0.1			G1/100
BL (0°-30°)	2703.0	8.2	B4/5000		
BM (30°-60°)	6257.7	19.1	B4/8500		
BH (60°-80°)	2151.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	101.1	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°	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8
2.5°	6994.2	6979.1	6964.0	6846.3	6816.1	6731.6	6671.2	6595.7	6487.1	6426.7	6375.4
5°	7431.9	7407.8	7326.3	7084.8	6927.8	6755.7	6613.9	6456.9	6290.9	6182.2	6097.7
7.5°	7845.5	7839.4	7700.6	7302.1	7048.5	6801.0	6607.8	6378.4	6139.9	5976.9	5868.2
10°	8228.8	8183.5	8017.5	7498.3	7166.3	6882.5	6674.2	6420.7	6142.9	5922.6	5777.7
12.5°	8566.9	8509.6	8280.1	7679.4	7268.9	6918.7	6692.3	6484.0	6299.9	6115.8	5949.7
15°	8844.6	8775.2	8542.8	7848.5	7359.5	6897.6	6580.6	6417.6	6481.0	6562.5	6378.4
17.5°	9104.2	9031.8	8748.0	7972.2	7386.6	6767.8	6305.9	6236.5	6556.5	6927.8	6843.3
20°	9321.6	9240.1	8911.0	8032.6	7338.3	6520.3	5949.7	6070.5	6493.1	6936.8	7072.7
22.5°	9557.0	9490.6	9095.2	8120.2	7278.0	6179.2	5650.9	5946.7	6384.4	6773.8	6979.1
25°	9934.4	9852.9	9381.9	8274.1	7247.8	5859.2	5436.6	5826.0	6233.5	6586.7	6746.7
27.5°	10480.7	10329.8	9774.4	8542.8	7281.0	5557.3	5300.7	5678.1	6058.4	6360.3	6490.1
30°	11075.4	10894.3	10209.1	8820.5	7329.3	5373.2	5228.3	5509.0	5789.8	6091.6	6233.5
32.5°	11778.8	11618.8	10673.9	9028.8	7226.6	5288.7	5174.0	5324.9	5548.3	5789.8	5907.5
35°	12617.9	12331.2	11181.1	9197.8	6894.6	5164.9	5125.7	5122.6	5240.4	5475.8	5608.6
37.5°	13520.5	13212.6	11805.9	9378.9	6378.4	4968.7	5011.0	4884.2	4992.8	5180.0	5330.9
40°	14260.1	13937.1	12436.8	9626.5	5732.4	4660.8	4757.4	4621.5	4688.0	4881.1	5050.2
42.5°	14984.6	14640.4	13025.5	9907.2	5107.5	4358.9	4407.2	4355.9	4377.0	4579.3	4814.7
45°	15935.4	15549.0	13749.9	10106.4	4546.1	4120.5	4075.2	3987.6	4099.3	4361.9	4612.5
47.5°	17523.2	17061.4	14936.3	10236.2	4138.6	3984.6	3776.3	3725.0	3863.9	4156.7	4416.3
50°	19379.7	18981.2	16832.0	10230.2	3833.7	3869.9	3486.5	3441.3	3670.7	3966.5	4241.2
52.5°	20901.1	20496.6	18453.0	9928.3	3583.1	3625.4	3317.5	3190.7	3504.6	3779.3	4054.0
55°	22129.7	21673.9	19198.6	8666.5	3266.2	3236.0	3133.4	2900.9	3296.4	3592.2	3848.8
57.5°	21468.6	20925.2	18296.0	6589.7	2940.2	2750.0	2816.4	2644.3	3012.6	3383.9	3631.4
60°	18000.2	17511.2	14863.8	3507.7	2587.0	2297.2	2436.0	2463.2	2701.7	3133.4	3386.9
62.5°	12364.4	12008.2	10073.2	2128.1	2040.6	1844.4	2061.7	2257.9	2436.0	2801.3	3021.7
65°	6049.4	5943.7	5038.1	1364.4	1427.8	1491.2	1708.6	1947.0	2209.6	2529.6	2762.1
67.5°	1666.3	1678.4	1527.4	1065.6	1126.0	1301.0	1473.1	1663.3	1925.9	2221.7	2457.2
70°	733.5	745.6	769.8	821.1	935.8	1095.8	1273.9	1470.1	1711.6	1959.1	2185.5
72.5°	510.2	522.2	558.4	624.9	727.5	878.4	1047.5	1234.6	1485.2	1693.5	1880.6
75°	313.9	323.0	356.2	413.6	483.0	597.7	763.7	935.8	1156.1	1346.3	1512.3
77.5°	166.0	160.0	181.1	220.4	280.7	341.1	452.8	561.5	718.4	872.4	1011.2
80°	90.6	87.5	99.6	120.7	138.9	187.2	262.6	335.1	425.6	513.2	588.6
82.5°	39.2	36.2	39.2	51.3	63.4	90.6	132.8	184.1	235.5	295.8	344.1
85°	0.0	0.0	0.0	3.0	15.1	24.1	45.3	66.4	96.6	132.8	163.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	27.2
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-760-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8
2.5°	6345.2	6269.7	6263.7	6203.3	6209.4	6212.4	6152.0	6127.8	6149.0	6173.1	6161.1
5°	6067.5	5989.0	5955.8	5898.4	5892.4	5865.2	5841.1	5810.9	5832.0	5853.2	5865.2
7.5°	5826.0	5774.7	5753.5	5738.4	5744.5	5732.4	5684.1	5656.9	5653.9	5663.0	5675.1
10°	5747.5	5705.2	5732.4	5774.7	5804.9	5826.0	5774.7	5729.4	5687.1	5669.0	5669.0
12.5°	5916.5	5862.2	5916.5	5961.8	6022.2	6037.3	5979.9	5931.6	5916.5	5934.7	5970.9
15°	6290.9	6164.1	6161.1	6188.2	6236.5	6260.7	6206.3	6182.2	6182.2	6296.9	6387.5
17.5°	6665.2	6456.9	6369.3	6354.2	6384.4	6393.5	6348.2	6327.1	6381.4	6604.8	6773.8
20°	6927.8	6674.2	6484.0	6447.8	6456.9	6459.9	6423.7	6408.6	6487.1	6758.7	6900.6
22.5°	6900.6	6713.5	6481.0	6435.8	6450.8	6444.8	6411.6	6405.6	6469.0	6704.4	6770.8
25°	6713.5	6568.6	6372.4	6342.2	6366.3	6363.3	6330.1	6315.0	6342.2	6499.1	6505.2
27.5°	6499.1	6372.4	6203.3	6194.3	6233.5	6254.6	6197.3	6152.0	6142.9	6248.6	6224.4
30°	6242.6	6149.0	6013.1	6019.2	6091.6	6103.7	6034.3	5967.9	5949.7	6007.1	5973.9
32.5°	5937.7	5907.5	5835.0	5850.1	5919.6	5943.7	5871.3	5801.8	5780.7	5798.8	5729.4
35°	5678.1	5666.0	5672.0	5699.2	5759.6	5777.7	5717.3	5663.0	5632.8	5569.4	5478.8
37.5°	5409.4	5442.6	5530.2	5581.5	5614.7	5608.6	5575.4	5536.2	5487.9	5370.2	5258.5
40°	5158.9	5243.4	5400.4	5457.7	5469.8	5472.8	5448.7	5415.4	5355.1	5198.1	5071.3
42.5°	4965.7	5059.2	5267.5	5355.1	5361.1	5367.2	5343.0	5315.8	5231.3	5023.0	4899.3
45°	4763.4	4887.2	5131.7	5237.3	5231.3	5228.3	5207.2	5195.1	5095.5	4854.0	4718.1
47.5°	4591.4	4736.3	4998.9	5089.4	5086.4	5083.4	5068.3	5068.3	4968.7	4706.1	4552.1
50°	4422.3	4588.3	4863.0	4938.5	4944.5	4938.5	4932.5	4941.5	4823.8	4543.1	4392.1
52.5°	4238.2	4425.3	4712.1	4781.5	4817.8	4832.9	4832.9	4811.7	4672.9	4380.1	4214.0
55°	4035.9	4214.0	4546.1	4639.7	4669.8	4697.0	4697.0	4654.8	4524.9	4229.1	4051.0
57.5°	3785.4	3942.4	4205.0	4298.6	4371.0	4389.1	4389.1	4319.7	4214.0	3930.3	3785.4
60°	3513.7	3649.5	3827.6	3927.3	3981.6	3945.4	3972.5	3954.4	3869.9	3607.3	3486.5
62.5°	3151.5	3290.3	3486.5	3589.2	3613.3	3577.1	3613.3	3610.3	3495.6	3260.1	3115.2
65°	2891.9	3027.7	3220.9	3353.7	3393.0	3383.9	3408.1	3371.8	3230.0	3006.6	2867.7
67.5°	2584.0	2728.9	2952.2	3100.1	3181.7	3190.7	3223.9	3148.4	3003.6	2759.0	2584.0
70°	2291.2	2414.9	2587.0	2725.8	2840.5	2897.9	2903.9	2795.3	2614.1	2411.9	2285.1
72.5°	1983.2	2110.0	2318.3	2469.3	2614.1	2680.6	2680.6	2547.7	2351.5	2128.1	1992.3
75°	1608.9	1726.7	1916.8	2079.8	2245.9	2330.4	2327.4	2212.7	1995.3	1784.0	1642.1
77.5°	1089.7	1177.3	1298.0	1421.8	1445.9	1512.3	1545.5	1400.7	1279.9	1165.2	1038.4
80°	633.9	688.3	754.7	824.1	839.2	860.3	806.0	751.6	688.3	612.8	555.4
82.5°	371.3	407.5	440.7	495.1	504.1	510.2	461.9	437.7	386.4	341.1	304.9
85°	181.1	193.2	223.4	250.5	238.5	232.4	211.3	187.2	166.0	147.9	129.8
87.5°	36.2	36.2	54.3	51.3	42.3	36.2	21.1	27.2	6.0	6.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8
2.5°	6200.3	6251.6	6315.0	6399.5	6496.1	6598.8	6698.4	6773.8	6849.3	6961.0	6942.9
5°	5883.3	5970.9	6070.5	6200.3	6357.3	6535.4	6734.6	6933.8	7148.2	7329.3	7407.8
7.5°	5699.2	5795.8	5913.5	6082.6	6284.8	6502.2	6782.9	7105.9	7453.0	7691.5	7839.4
10°	5699.2	5823.0	5976.9	6139.9	6318.0	6541.4	6888.5	7293.0	7739.8	8053.7	8225.8
12.5°	6028.2	6152.0	6185.2	6179.2	6278.8	6526.3	6973.1	7489.3	8023.6	8355.6	8566.9
15°	6541.4	6583.7	6333.1	6103.7	6118.8	6417.6	7012.3	7646.2	8268.1	8666.5	8895.9
17.5°	6885.5	6773.8	6327.1	5925.6	5841.1	6233.5	7012.3	7797.2	8527.7	8977.5	9191.8
20°	6912.7	6635.0	6173.1	5753.5	5536.2	5989.0	6964.0	7911.9	8778.2	9276.3	9505.7
22.5°	6674.2	6399.5	6010.1	5605.6	5285.6	5693.2	6885.5	7999.4	8992.5	9557.0	9840.8
25°	6402.5	6173.1	5844.1	5454.7	5113.6	5394.3	6813.1	8147.3	9291.4	9937.4	10224.2
27.5°	6136.9	5943.7	5644.9	5327.9	5017.0	5134.7	6767.8	8364.7	9647.6	10477.7	10725.2
30°	5877.3	5702.2	5430.5	5207.2	4965.7	4965.7	6728.6	8615.2	10118.5	11084.5	11332.0
32.5°	5614.7	5448.7	5228.3	5089.4	4935.5	4899.3	6619.9	8850.7	10604.5	11748.6	12002.1
35°	5370.2	5204.1	5035.1	4977.7	4920.4	4847.9	6351.2	9034.8	11078.4	12524.4	12741.7
37.5°	5140.8	4980.8	4854.0	4838.9	4844.9	4709.1	5928.6	9188.8	11670.1	13318.3	13433.0
40°	4941.5	4763.4	4663.8	4660.8	4691.0	4485.7	5394.3	9409.1	12346.3	13991.4	13943.1
42.5°	4763.4	4576.3	4455.5	4482.7	4464.6	4262.3	4872.1	9611.4	12934.9	14622.3	14525.7
45°	4588.3	4407.2	4238.2	4277.4	4256.3	4123.5	4428.4	9759.3	13586.9	15380.0	15392.1
47.5°	4419.3	4241.2	4072.2	4023.9	4020.8	4081.2	4087.2	9807.6	14649.5	16599.5	16324.8
50°	4262.3	4084.2	3909.1	3746.1	3809.5	3996.7	3833.7	9771.4	16240.3	17945.8	17179.1
52.5°	4099.3	3930.3	3737.1	3444.3	3610.3	3794.4	3607.3	9641.6	17212.3	19135.2	18676.4
55°	3912.2	3752.2	3489.6	3133.4	3335.6	3374.8	3374.8	8385.8	17625.9	20312.5	20596.2
57.5°	3661.6	3450.3	3033.7	2747.0	2928.1	2777.2	3127.3	5868.2	16943.7	19941.2	21043.0
60°	3377.9	3151.5	2710.7	2505.5	2559.8	2294.2	2665.5	3679.7	14042.7	16967.8	18875.6
62.5°	3003.6	2795.3	2430.0	2270.0	2158.3	1871.6	2146.3	2327.4	9626.5	12599.8	13900.9
65°	2753.0	2523.6	2197.6	1986.3	1756.9	1506.3	1424.8	1527.4	5177.0	7051.6	7930.0
67.5°	2457.2	2230.8	1922.9	1657.2	1473.1	1292.0	1150.1	1113.9	1775.0	2348.5	2541.7
70°	2176.4	1959.1	1702.5	1455.0	1270.8	1092.7	953.9	854.3	821.1	815.0	803.0
72.5°	1889.7	1687.4	1473.1	1243.7	1041.4	878.4	754.7	640.0	591.7	576.6	561.5
75°	1548.6	1388.6	1174.3	926.7	763.7	612.8	516.2	440.7	398.5	383.4	365.3
77.5°	996.2	923.7	736.5	597.7	461.9	365.3	313.9	265.6	238.5	232.4	217.3
80°	531.3	495.1	407.5	344.1	274.7	223.4	196.2	169.0	154.0	147.9	141.9
82.5°	295.8	268.7	226.4	199.2	160.0	135.8	120.7	108.7	99.6	96.6	93.6
85°	132.8	114.7	90.6	84.5	75.5	69.4	66.4	60.4	57.4	54.3	51.3
87.5°	6.0	12.1	15.1	12.1	12.1	18.1	21.1	21.1	18.1	18.1	15.1
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: P641340

CATALOG NUMBER: GWS-SA5F-760-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8	6610.8
2.5°	7054.6	7145.1	7154.2	7184.4	7145.1	7136.1	7072.7	7036.5	7003.3	6994.2
5°	7604.0	7785.1	7857.5	7908.9	7860.6	7836.4	7697.5	7552.7	7471.1	7431.9
7.5°	8168.5	8440.1	8582.0	8645.4	8651.4	8542.8	8304.3	8032.6	7896.8	7845.5
10°	8672.6	9007.6	9194.8	9315.5	9273.3	9140.5	8814.4	8446.2	8274.1	8228.8
12.5°	9046.9	9366.9	9511.8	9590.2	9587.2	9514.8	9206.9	8808.4	8612.2	8566.9
15°	9288.4	9478.5	9487.6	9505.7	9557.0	9653.6	9493.6	9125.4	8908.0	8844.6
17.5°	9478.5	9403.1	9261.2	9212.9	9327.6	9596.3	9692.9	9394.0	9158.6	9104.2
20°	9599.3	9218.9	8968.4	8874.8	9007.6	9445.3	9813.6	9635.5	9391.0	9321.6
22.5°	9692.9	9046.9	8642.4	8579.0	8717.8	9282.3	9937.4	9922.3	9653.6	9557.0
25°	9840.8	8932.2	8413.0	8367.7	8497.5	9203.8	10103.4	10311.7	10073.2	9934.4
27.5°	10073.2	8920.1	8295.2	8280.1	8458.2	9273.3	10341.9	10882.2	10583.4	10480.7
30°	10396.2	9034.8	8322.4	8352.6	8569.9	9523.8	10713.2	11534.2	11235.4	11075.4
32.5°	10861.1	9342.7	8736.0	8865.8	9025.7	9925.3	11256.5	12240.6	12014.2	11778.8
35°	11473.9	10187.9	9958.5	10510.9	10360.0	10803.7	11911.6	13097.9	12823.2	12617.9
37.5°	12291.9	11920.6	12131.9	12892.6	12527.4	12464.0	12711.5	13876.7	13725.8	13520.5
40°	13439.0	13514.5	13903.9	14903.1	14374.8	13967.3	13692.6	14462.3	14513.6	14260.1
42.5°	14199.7	14546.9	15485.6	16620.7	15893.2	14918.1	14513.6	15211.0	15214.0	14984.6
45°	14483.5	15392.1	17354.2	18661.3	17444.8	15461.5	14966.4	16228.2	16198.1	15935.4
47.5°	14380.8	16104.5	19295.2	21293.5	19437.1	15847.9	14903.1	17677.2	17921.7	17523.2
50°	14166.5	16819.9	21562.2	24517.4	21882.2	16258.4	14806.5	19283.1	19687.6	19379.7
52.5°	14383.8	17616.8	24242.7	27850.0	24949.1	16913.5	15458.5	21344.8	21272.4	20901.1
55°	15072.1	18558.6	27499.9	32036.9	28317.9	18021.3	17133.8	23310.0	22573.4	22129.7
57.5°	15038.9	19231.8	30355.5	35348.3	31249.0	18929.9	17716.4	23518.3	22030.1	21468.6
60°	13650.3	18923.9	31442.2	37443.3	32133.5	18428.8	15799.6	21006.8	18588.8	18000.2
62.5°	10187.9	16792.7	29335.2	34820.1	29631.0	15917.3	11881.4	15078.1	13357.5	12364.4
65°	6517.3	13137.1	24662.3	28209.2	24423.9	12174.2	7075.7	8083.9	6333.1	6049.4
67.5°	2774.1	9273.3	19171.4	18854.5	18271.9	7887.7	2731.9	2276.1	1696.5	1666.3
70°	917.7	6309.0	11818.0	12575.7	10912.4	5433.6	902.6	763.7	760.7	733.5
72.5°	600.7	3386.9	6653.1	7407.8	7021.4	3127.3	546.4	510.2	522.2	510.2
75°	359.2	736.5	1119.9	1455.0	1119.9	525.2	329.0	323.0	329.0	313.9
77.5°	211.3	205.3	199.2	199.2	196.2	181.1	166.0	160.0	163.0	166.0
80°	135.8	129.8	123.8	120.7	105.7	99.6	93.6	87.5	87.5	90.6
82.5°	87.5	81.5	75.5	66.4	54.3	45.3	42.3	36.2	36.2	39.2
85°	45.3	36.2	27.2	21.1	12.1	6.0	0.0	0.0	0.0	0.0
87.5°	9.1	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)