

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: P641289

Luminaire Tested: GWS-SA5F-750-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641289
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-SA5F-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33404.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

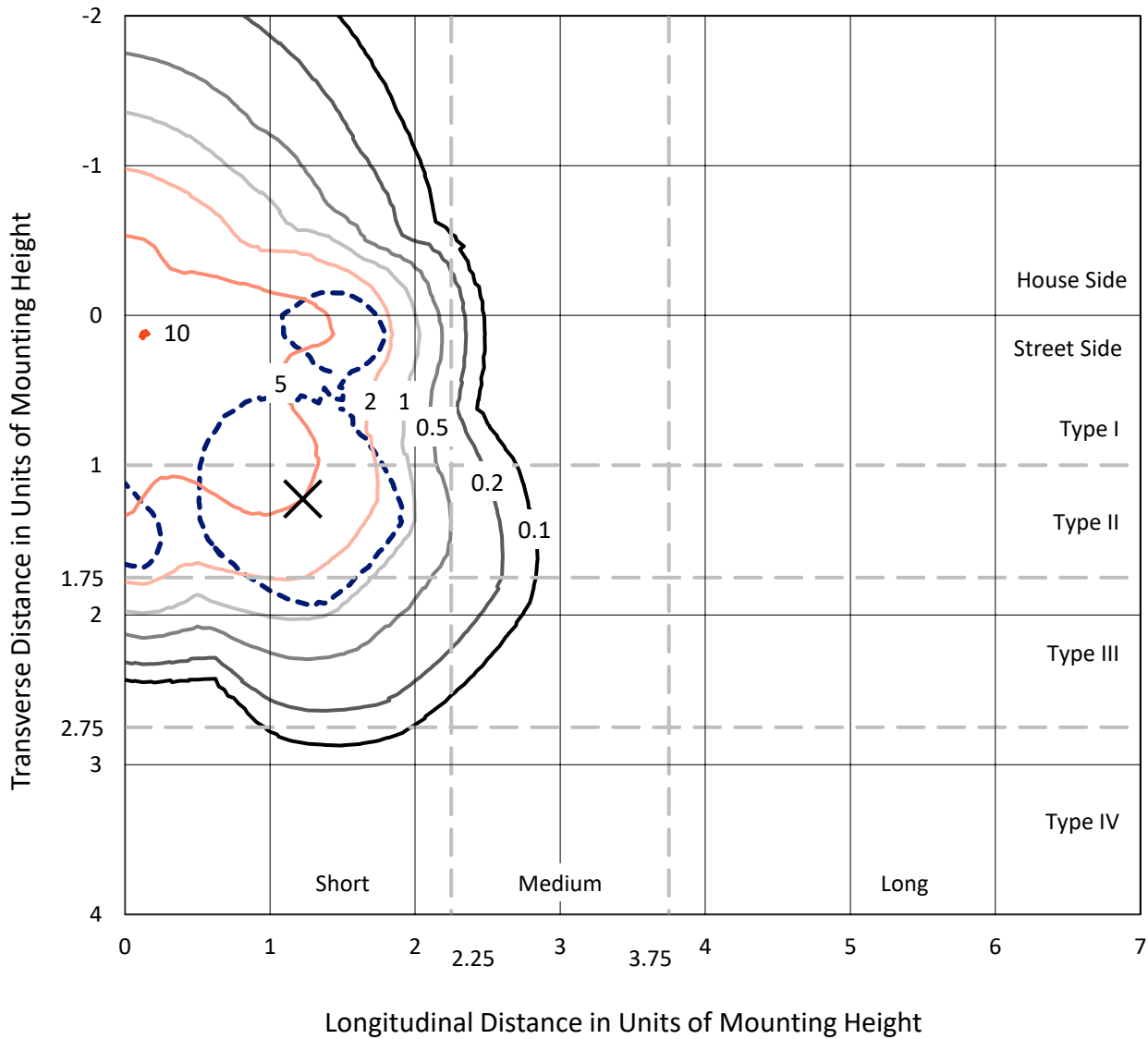
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

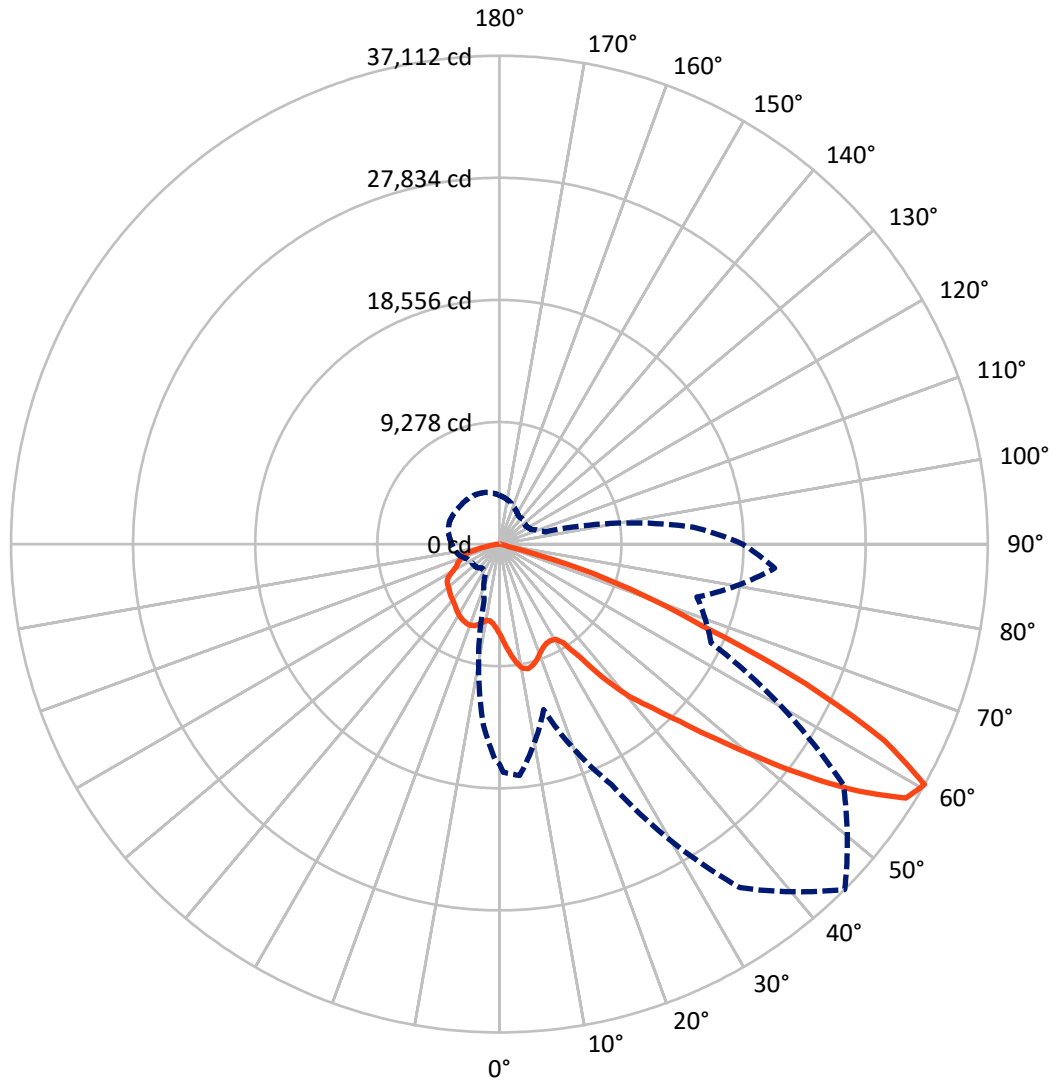
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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
House Side	Lumens	11709.4	0.0	11709.4
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	21694.8	0.0	21694.8
	% Fixture	64.9	0.0	64.9
Total	Lumens	33404.2	0.0	33404.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.5	2.0
10°-20°	2115.7	6.3
20°-30°	3436.7	10.3
30°-40°	4846.8	14.5
40°-50°	6698.1	20.1
50°-60°	8622.4	25.8
60°-70°	5463.3	16.4
70°-80°	1401.9	4.2
80°-90°	149.9	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°	33404.2	100.0
0°-180°	33404.2	100.0

Coefficient of Utilization



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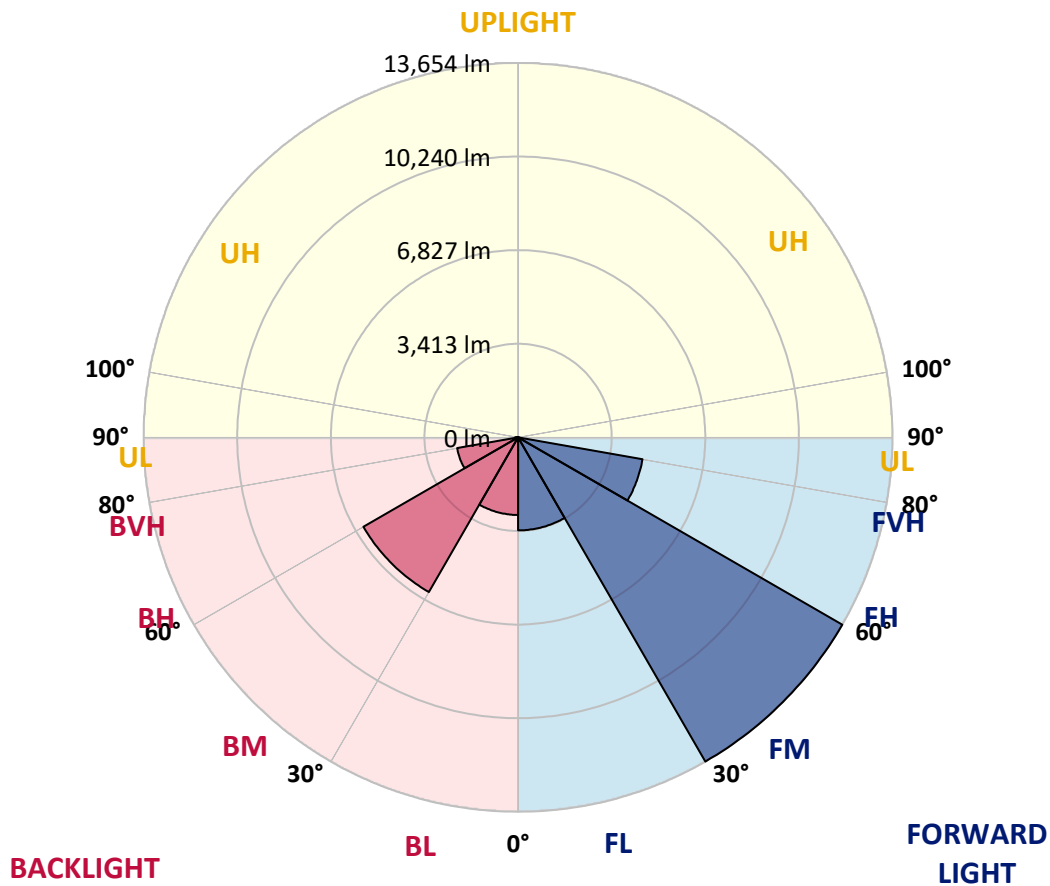
CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3391.8	10.2			
FM	(30°-60°)	13653.7	40.9			
FH	(60°-80°)	4608.6	13.8			G2/5000
FVH	(80°-90°)	40.7	0.1			G1/100
BL	(0°-30°)	2830.1	8.5	B4/5000		
BM	(30°-60°)	6513.6	19.5	B4/8500		
BH	(60°-80°)	2256.5	6.8	B3/2500		G3/2500
BVH	(80°-90°)	109.2	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°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	7177.5	7226.4	7257.0	7315.2	7419.3	7477.4	7541.7	7471.3	7489.7	7480.5	7367.2
5°	7602.9	7661.1	7740.6	7912.0	8104.9	8212.0	8313.0	8297.7	8202.8	8043.7	7930.4
7.5°	8000.8	8068.1	8205.9	8484.4	8769.0	8934.3	9056.8	8977.2	8897.6	8646.6	8362.0
10°	8313.0	8352.8	8539.5	8912.9	9243.5	9430.2	9580.1	9561.8	9451.6	9170.0	8787.4
12.5°	8606.8	8634.4	8836.4	9209.8	9506.7	9589.3	9711.8	9751.5	9714.8	9503.6	9127.2
15°	8922.1	8974.1	9160.8	9445.5	9580.1	9494.4	9537.3	9647.5	9751.5	9751.5	9405.7
17.5°	9215.9	9261.8	9451.6	9574.0	9445.5	9219.0	9231.2	9372.0	9619.9	9880.1	9659.7
20°	9476.1	9518.9	9705.6	9589.3	9182.3	8851.7	8842.5	9013.9	9414.9	9962.7	9932.1
22.5°	9760.7	9821.9	9978.0	9601.6	8937.4	8518.1	8515.0	8692.5	9234.3	10045.4	10244.3
25°	10164.8	10259.6	10339.2	9708.7	8805.8	8300.8	8340.5	8508.9	9176.1	10180.1	10706.5
27.5°	10764.7	10841.2	10835.1	9932.1	8799.7	8212.0	8294.6	8490.5	9280.2	10418.8	11193.2
30°	11413.5	11453.3	11389.1	10244.3	8940.5	8267.1	8389.5	8622.1	9543.4	10813.6	11909.4
32.5°	12132.8	12181.8	12059.4	10712.6	9268.0	8674.2	8943.5	9056.8	9913.8	11382.9	12668.4
35°	12959.2	13054.1	12800.1	11330.9	10232.1	10158.6	10550.4	10403.5	10700.4	12056.3	13479.5
37.5°	13828.5	13831.5	13467.3	12246.1	12123.6	12249.1	13032.7	12573.6	12368.5	12806.2	14305.9
40°	14566.1	14547.7	13987.6	13479.5	13770.3	14269.2	15215.0	14511.0	13972.3	13813.2	14991.6
42.5°	15303.8	15236.4	14670.2	14263.1	14905.9	15931.2	16999.4	16136.3	15000.7	14728.3	15668.0
45°	16246.5	16225.0	15542.5	14575.3	15931.2	17792.1	19209.3	17810.5	15609.8	15260.9	16794.3
47.5°	17767.7	17663.6	16393.4	14550.8	16892.3	20271.3	22061.9	19919.4	16035.3	15273.1	18612.4
50°	19255.2	19126.6	17409.5	14547.7	17884.0	22842.4	25428.7	22481.2	16469.9	15346.6	20461.1
52.5°	20758.0	20758.0	19077.7	14893.6	18924.6	25713.4	29318.9	25673.6	17210.6	16307.7	22735.3
55°	21651.7	21890.5	20953.9	15478.2	20142.8	29092.4	33166.3	29120.0	18355.3	18043.1	24834.9
57.5°	20516.2	20963.1	20828.4	15071.1	20862.1	31574.7	36429.0	31733.9	18921.6	18248.2	24519.7
60°	16717.8	17339.1	17648.3	13014.3	20152.0	31862.4	37111.6	31905.3	17752.4	15539.4	21002.9
62.5°	11113.6	11624.7	12096.1	9298.6	17446.3	28663.9	32823.5	28673.1	14826.3	11597.2	14550.8
65°	5451.2	5830.7	6338.8	5497.1	13629.5	23950.4	25590.9	23169.9	10724.9	6491.9	7422.3
67.5°	1426.3	1533.4	1603.8	2133.3	9763.8	17207.5	16690.3	16947.4	6889.7	2121.1	1940.5
70°	740.7	746.8	743.8	881.5	6599.0	10936.1	11502.3	10642.2	4808.4	887.6	765.2
72.5°	529.5	532.6	523.4	593.8	3186.2	6265.4	6491.9	6421.5	2519.0	526.4	523.4
75°	345.9	348.9	342.8	348.9	480.5	713.2	658.1	691.7	419.3	333.6	333.6
77.5°	205.1	208.1	205.1	211.2	205.1	205.1	189.8	189.8	180.6	180.6	183.6
80°	137.7	137.7	134.7	140.8	128.6	128.6	122.4	119.4	110.2	107.1	107.1
82.5°	82.6	85.7	82.6	82.6	76.5	76.5	70.4	67.3	58.2	58.2	55.1
85°	42.9	42.9	39.8	39.8	33.7	30.6	24.5	24.5	18.4	15.3	15.3
87.5°	6.1	6.1	3.1	3.1	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°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	7336.6	7275.4	7183.6	7094.8	7012.2	6926.5	6828.5	6727.5	6641.8	6553.1	6507.2
5°	7780.4	7654.9	7416.2	7205.0	7015.2	6859.1	6690.8	6546.9	6412.3	6302.1	6247.0
7.5°	8181.4	7985.5	7624.3	7290.7	7033.6	6819.4	6586.7	6372.5	6191.9	6057.2	6005.2
10°	8551.7	8319.1	7844.7	7422.3	7122.4	6883.6	6599.0	6308.2	6069.5	5891.9	5849.1
12.5°	8851.7	8585.4	8019.2	7529.4	7174.4	6917.3	6666.3	6415.3	6179.7	5950.1	5913.4
15°	9118.0	8802.7	8150.8	7596.8	7156.0	6828.5	6617.3	6586.7	6586.7	6326.6	6253.1
17.5°	9347.5	9001.7	8257.9	7627.4	7039.7	6565.3	6436.8	6703.0	7003.0	6816.3	6651.0
20°	9610.8	9191.4	8346.7	7627.4	6825.5	6231.7	6219.4	6672.4	7116.2	7119.3	6944.8
22.5°	9877.0	9411.8	8450.7	7599.8	6531.6	5846.0	6072.5	6550.0	6944.8	7113.2	6993.8
25°	10308.6	9717.9	8616.0	7578.4	6188.8	5582.8	5940.9	6387.8	6721.4	6898.9	6822.4
27.5°	10856.5	10121.9	8867.0	7612.1	5849.1	5426.7	5800.1	6176.6	6479.6	6635.7	6580.6
30°	11468.6	10587.1	9136.3	7670.2	5604.2	5347.1	5631.8	5934.8	6204.1	6360.2	6335.8
32.5°	12249.1	11092.2	9369.0	7590.7	5466.5	5307.3	5454.3	5671.6	5931.7	6029.7	6051.1
35°	13182.7	11649.2	9546.5	7278.5	5341.0	5264.5	5261.4	5396.1	5579.7	5735.8	5751.1
37.5°	14042.7	12301.2	9742.4	6742.8	5114.5	5157.4	5034.9	5114.5	5295.1	5451.2	5512.4
40°	14893.6	12962.3	10014.8	6060.3	4817.6	4918.6	4774.8	4829.9	4973.7	5178.8	5276.7
42.5°	15720.0	13559.1	10302.5	5362.4	4520.7	4585.0	4477.9	4533.0	4682.9	4940.1	5050.2
45°	16619.9	14367.2	10525.9	4704.4	4263.6	4236.1	4150.4	4230.0	4456.5	4738.0	4869.7
47.5°	18321.7	15640.4	10672.8	4266.7	4125.9	3926.9	3829.0	4000.4	4257.5	4542.2	4701.3
50°	20399.9	17483.0	10630.0	3988.2	4006.5	3608.6	3575.0	3801.5	4076.9	4373.8	4548.3
52.5°	22046.6	19291.9	10143.3	3721.9	3773.9	3406.6	3308.7	3639.2	3902.5	4205.5	4386.1
55°	23304.6	19901.0	8649.7	3406.6	3394.4	3259.7	3054.6	3470.9	3728.0	4009.6	4205.5
57.5°	22279.2	18545.1	6412.3	2972.0	2898.5	2968.9	2770.0	3186.2	3513.7	3792.3	3966.7
60°	18490.0	14786.5	3571.9	2632.2	2424.1	2595.5	2564.9	2886.3	3281.1	3575.0	3724.9
62.5°	12552.1	9846.4	2118.0	2081.3	1965.0	2209.9	2372.1	2583.3	2972.0	3210.7	3351.5
65°	6256.2	4784.0	1407.9	1557.9	1573.2	1818.1	2124.2	2356.8	2681.2	2926.1	3066.9
67.5°	1815.0	1487.5	1071.3	1190.6	1355.9	1551.8	1796.7	2072.1	2387.4	2678.2	2843.4
70°	783.6	792.7	850.9	991.7	1153.9	1355.9	1600.8	1870.1	2136.4	2359.8	2485.3
72.5°	554.0	575.4	639.7	783.6	936.6	1129.4	1374.3	1634.4	1827.3	2053.8	2185.4
75°	355.0	370.4	422.4	532.6	645.8	832.5	1065.1	1303.9	1502.8	1665.0	1790.5
77.5°	195.9	198.9	241.8	306.1	382.6	502.0	673.4	860.1	1007.0	1098.8	1212.1
80°	113.2	113.2	134.7	174.5	220.4	293.8	388.7	480.5	569.3	627.5	682.5
82.5°	61.2	61.2	70.4	94.9	119.4	162.2	217.3	263.2	318.3	348.9	385.7
85°	18.4	18.4	24.5	33.7	42.9	61.2	85.7	110.2	134.7	156.1	177.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6498.0	6455.1	6430.6	6400.0	6409.2	6381.7	6366.4	6375.5	6320.4	6375.5	6430.6
5°	6225.6	6164.4	6115.4	6075.6	6057.2	6020.5	5999.1	5999.1	5965.4	6020.5	6087.8
7.5°	5986.8	5937.9	5913.4	5888.9	5861.3	5827.7	5790.9	5778.7	5757.3	5815.4	5873.6
10°	5827.7	5833.8	5849.1	5882.8	5876.6	5855.2	5800.1	5769.5	5769.5	5836.9	5925.6
12.5°	5901.1	5965.4	6002.1	6063.3	6075.6	6057.2	6002.1	5977.6	6038.9	6139.9	6286.8
15°	6185.8	6228.6	6259.2	6308.2	6305.1	6289.8	6247.0	6265.4	6467.4	6663.3	6794.9
17.5°	6494.9	6445.9	6439.8	6470.4	6479.6	6461.2	6436.8	6519.4	6853.0	7036.7	7104.0
20°	6718.3	6550.0	6513.3	6525.5	6550.0	6540.8	6540.8	6675.5	7021.4	7107.1	7021.4
22.5°	6785.7	6546.9	6491.9	6494.9	6528.6	6531.6	6546.9	6687.7	6889.7	6892.8	6761.2
25°	6678.6	6449.0	6409.2	6415.3	6455.1	6452.1	6458.2	6537.8	6626.5	6589.8	6491.9
27.5°	6476.5	6277.6	6265.4	6299.0	6351.1	6323.5	6305.1	6326.6	6369.4	6323.5	6237.8
30°	6247.0	6078.6	6084.8	6149.0	6204.1	6158.2	6112.3	6124.6	6127.6	6078.6	5980.7
32.5°	6005.2	5879.7	5901.1	5968.5	6032.7	5983.8	5934.8	5928.7	5870.5	5812.4	5717.5
35°	5763.4	5714.4	5742.0	5797.1	5852.2	5812.4	5781.8	5763.4	5637.9	5552.2	5472.6
37.5°	5543.0	5579.7	5628.7	5662.4	5680.8	5677.7	5659.3	5616.5	5451.2	5350.2	5246.1
40°	5347.1	5460.4	5512.4	5527.7	5555.3	5549.1	5546.1	5484.9	5267.6	5160.4	5041.1
42.5°	5169.6	5328.8	5417.5	5432.8	5448.1	5451.2	5442.0	5353.3	5105.3	4979.8	4866.6
45°	4998.2	5206.3	5319.6	5304.3	5325.7	5325.7	5334.9	5218.6	4946.2	4817.6	4698.3
47.5°	4848.2	5093.1	5197.2	5178.8	5191.0	5200.2	5209.4	5074.7	4771.7	4649.3	4526.8
50°	4710.5	4970.7	5059.4	5065.5	5065.5	5087.0	5083.9	4952.3	4624.8	4493.2	4370.8
52.5°	4563.6	4845.2	4940.1	4979.8	4992.1	5001.3	4958.4	4805.4	4474.8	4315.7	4202.4
55°	4392.2	4716.6	4802.3	4854.3	4878.8	4872.7	4814.6	4658.5	4321.8	4162.6	4034.1
57.5°	4132.0	4441.1	4563.6	4588.1	4627.9	4603.4	4536.0	4404.4	4076.9	3917.8	3786.1
60°	3847.4	4070.8	4168.7	4190.2	4159.6	4168.7	4159.6	4034.1	3749.4	3623.9	3489.3
62.5°	3474.0	3672.9	3777.0	3804.5	3752.5	3786.1	3773.9	3617.8	3333.2	3201.5	3082.2
65°	3192.4	3409.7	3532.1	3547.4	3532.1	3547.4	3504.6	3314.8	3045.4	2910.8	2788.3
67.5°	2972.0	3195.4	3324.0	3366.8	3351.5	3348.5	3281.1	3060.8	2782.2	2635.3	2479.2
70°	2592.5	2788.3	2953.6	3057.7	3057.7	2999.5	2871.0	2665.9	2442.5	2317.0	2194.6
72.5°	2295.6	2543.5	2705.7	2812.8	2834.3	2800.6	2620.0	2402.7	2145.6	2020.1	1891.5
75°	1891.5	2133.3	2307.8	2448.6	2476.1	2439.4	2231.3	2017.0	1778.3	1655.9	1527.3
77.5°	1264.1	1407.9	1548.7	1677.3	1649.7	1674.2	1533.4	1371.2	1224.3	1132.5	1074.3
80°	713.2	808.0	850.9	921.3	921.3	921.3	829.5	752.9	670.3	618.3	560.1
82.5°	404.0	465.2	483.6	541.8	557.1	560.1	498.9	449.9	397.9	370.4	330.6
85°	186.7	220.4	223.4	257.1	269.3	293.8	266.3	232.6	202.0	189.8	165.3
87.5°	6.1	18.4	24.5	45.9	61.2	70.4	76.5	76.5	64.3	58.2	49.0
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: P641289

CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6498.0	6571.4	6657.1	6718.3	6828.5	6920.4	7015.2	7119.3	7195.8	7177.5
5°	6170.5	6292.9	6449.0	6592.9	6797.9	7006.1	7235.6	7471.3	7609.0	7602.9
7.5°	5986.8	6161.3	6351.1	6543.9	6785.7	7085.6	7437.6	7804.9	7991.6	8000.8
10°	6084.8	6271.5	6400.0	6562.2	6816.3	7192.8	7615.1	8055.9	8270.1	8313.0
12.5°	6393.9	6378.6	6369.4	6485.7	6791.8	7269.3	7786.5	8313.0	8554.8	8606.8
15°	6687.7	6372.5	6182.7	6262.3	6681.6	7318.3	7954.9	8594.6	8867.0	8922.1
17.5°	6742.8	6265.4	5913.4	5968.5	6507.2	7333.6	8117.1	8870.1	9163.9	9215.9
20°	6589.8	6127.6	5717.5	5641.0	6286.8	7293.8	8218.1	9099.6	9421.0	9476.1
22.5°	6397.0	6005.2	5570.6	5371.6	6017.4	7254.0	8331.4	9341.4	9711.8	9760.7
25°	6195.0	5849.1	5432.8	5129.8	5711.4	7229.5	8521.1	9659.7	10106.6	10164.8
27.5°	5980.7	5659.3	5313.5	5013.5	5429.8	7260.1	8790.5	10173.9	10682.0	10764.7
30°	5751.1	5469.6	5236.9	4973.7	5236.9	7287.6	9087.4	10700.4	11297.2	11413.5
32.5°	5512.4	5295.1	5157.4	4992.1	5117.6	7223.4	9347.5	11291.1	12031.8	12132.8
35°	5273.7	5117.6	5056.4	5025.8	4958.4	6987.7	9558.7	11888.0	12870.5	12959.2
37.5°	5050.2	4933.9	4915.6	4949.2	4713.6	6602.0	9803.6	12647.0	13693.8	13828.5
40°	4842.1	4735.0	4731.9	4725.8	4444.2	6075.6	10134.1	13418.3	14504.9	14566.1
42.5°	4649.3	4514.6	4539.1	4465.6	4223.8	5506.3	10446.3	14076.4	15260.9	15303.8
45°	4477.9	4300.4	4327.9	4236.1	4119.8	4909.4	10721.8	14853.8	16218.9	16246.5
47.5°	4312.6	4122.8	4046.3	4040.2	4101.4	4358.5	10991.2	16350.5	17718.7	17767.7
50°	4159.6	3954.5	3737.2	3871.8	3988.2	3945.3	11327.8	17954.4	19267.4	19255.2
52.5°	4012.6	3743.3	3434.2	3694.3	3694.3	3639.2	11233.0	18927.7	20546.8	20758.0
55°	3844.3	3403.6	3118.9	3397.4	3262.8	3363.8	9552.6	19246.0	21351.8	21651.7
57.5°	3510.7	2984.2	2736.3	2886.3	2684.3	3118.9	6862.2	17666.6	19983.6	20516.2
60°	3189.3	2675.1	2512.9	2485.3	2222.1	2543.5	4447.3	13831.5	16448.5	16717.8
62.5°	2812.8	2408.8	2271.1	2059.9	1787.5	1851.8	2693.5	9102.7	11052.4	11113.6
65°	2528.2	2182.3	1919.1	1668.1	1463.0	1343.7	1591.6	4389.1	5524.7	5451.2
67.5°	2170.1	1870.1	1619.1	1438.6	1270.2	1120.2	1059.0	1303.9	1475.3	1426.3
70°	1931.3	1643.6	1401.8	1230.4	1074.3	924.3	817.2	768.2	752.9	740.7
72.5°	1665.0	1414.1	1163.1	997.8	850.9	713.2	615.2	557.1	541.8	529.5
75°	1328.4	1092.7	863.1	707.0	578.5	480.5	416.3	367.3	358.1	345.9
77.5°	878.4	700.9	514.2	419.3	342.8	290.8	247.9	217.3	211.2	205.1
80°	483.6	404.0	315.3	254.0	205.1	177.5	162.2	143.9	140.8	137.7
82.5°	287.7	241.8	180.6	143.9	119.4	107.1	97.9	88.8	85.7	82.6
85°	143.9	113.2	79.6	67.3	61.2	55.1	55.1	45.9	42.9	42.9
87.5°	36.7	30.6	18.4	15.3	15.3	15.3	12.2	9.2	9.2	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)