

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: P640684

Luminaire Tested: GWS-SA5E-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640684
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28969 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

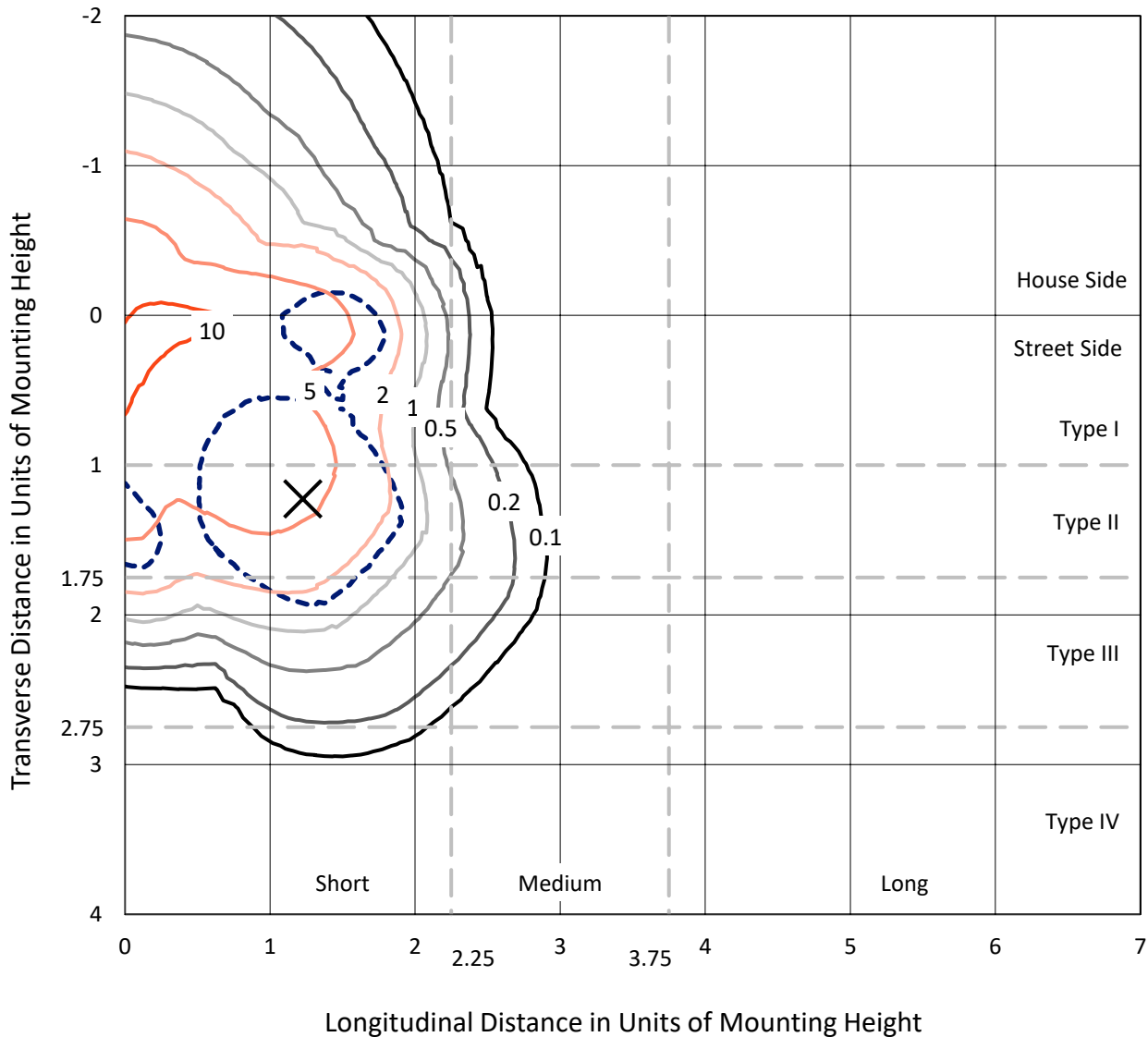
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640684
 CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

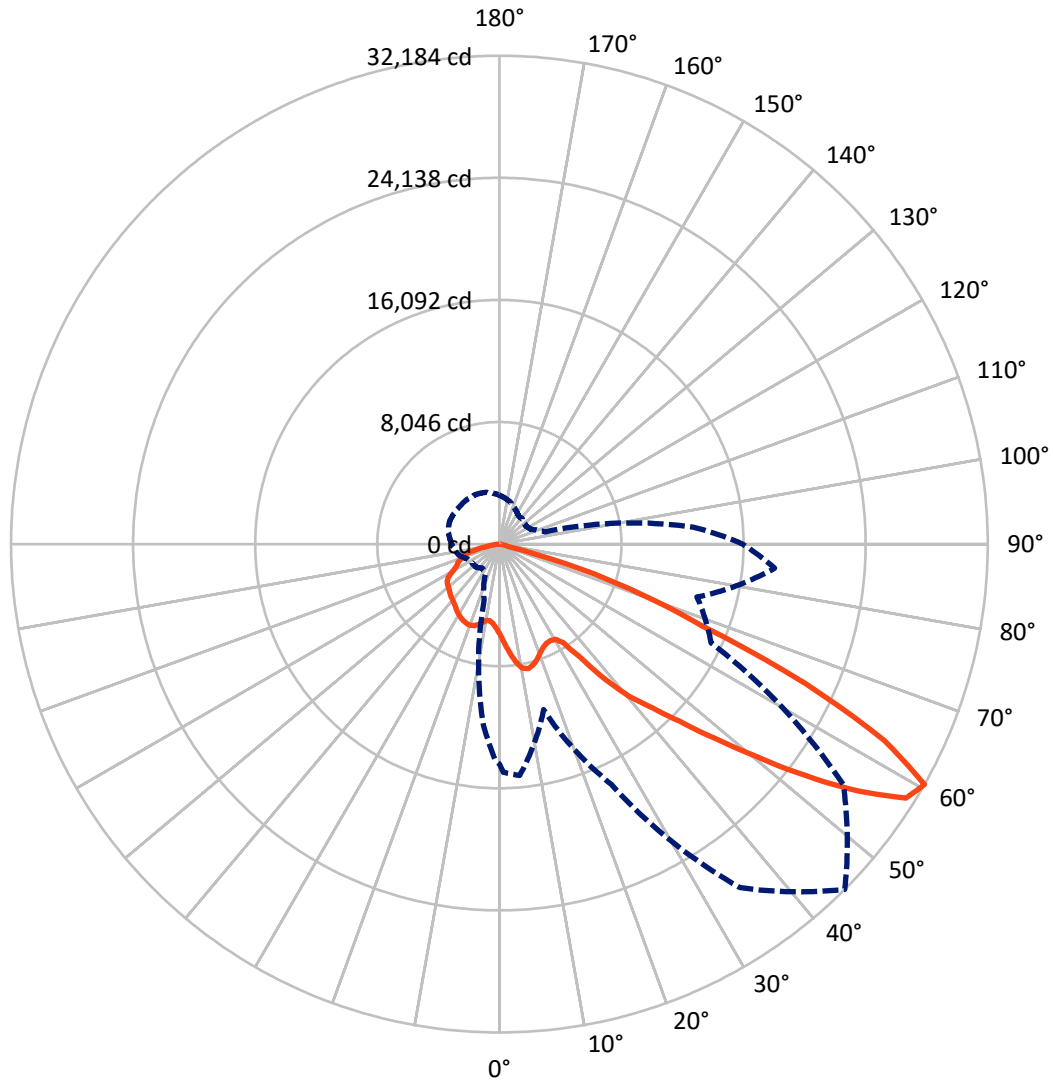
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

REPORT NUMBER: P640684
CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640684

CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10154.7	0.0	10154.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	18814.3	0.0	18814.3
	% Fixture	64.9	0.0	64.9
Total	Lumens	28969.0	0.0	28969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.6	2.0
10°-20°	1834.8	6.3
20°-30°	2980.4	10.3
30°-40°	4203.2	14.5
40°-50°	5808.8	20.1
50°-60°	7477.6	25.8
60°-70°	4737.9	16.4
70°-80°	1215.7	4.2
80°-90°	130.0	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°	28969.0	100.0
0°-180°	28969.0	100.0

Coefficient of Utilization



REPORT NUMBER: P640684

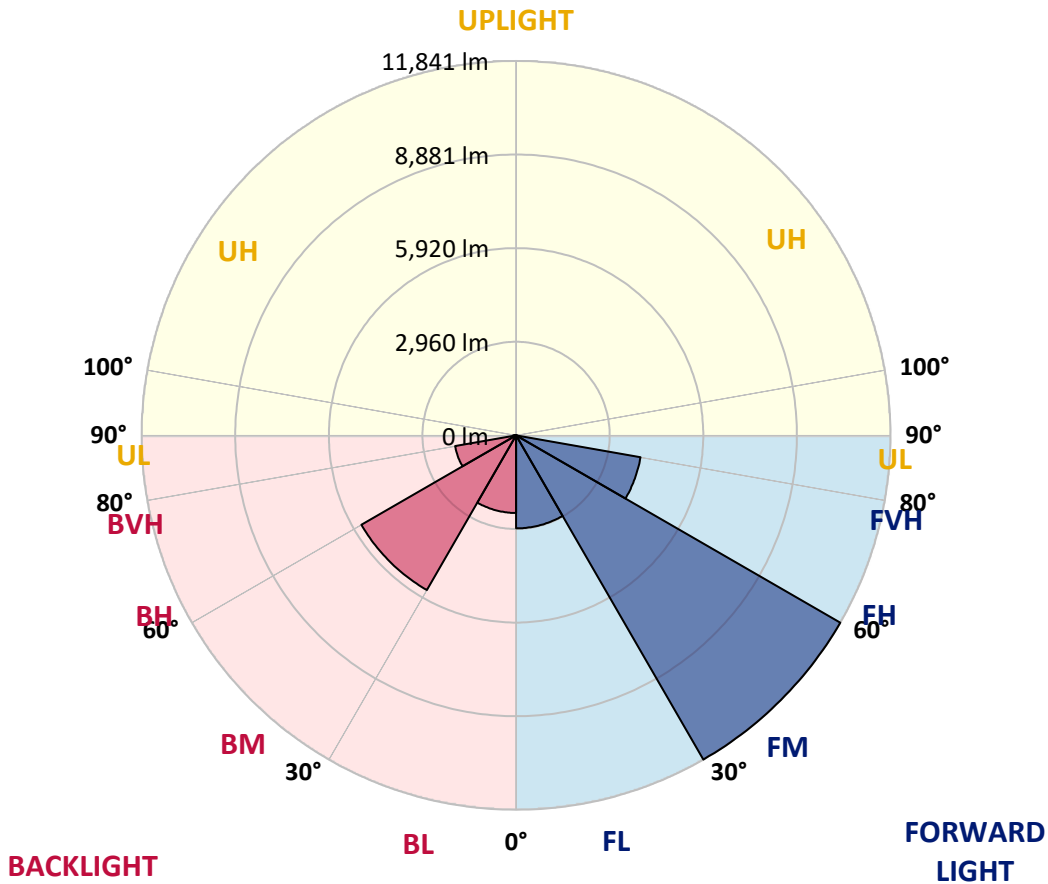
CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2941.4	10.2			
FM (30°-60°)	11840.8	40.9			
FH (60°-80°)	3996.7	13.8			G2/5000
FVH (80°-90°)	35.3	0.1			G1/100
BL (0°-30°)	2454.4	8.5	B3/2500		
BM (30°-60°)	5648.7	19.5	B4/8500		
BH (60°-80°)	1956.9	6.8	B3/2500		G3/2500
BVH (80°-90°)	94.7	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





REPORT NUMBER: P640684

CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1
2.5°	6224.5	6267.0	6293.5	6343.9	6434.2	6484.6	6540.4	6479.3	6495.2	6487.3	6389.1
5°	6593.4	6643.9	6712.9	6861.5	7028.8	7121.7	7209.2	7196.0	7113.7	6975.7	6877.5
7.5°	6938.5	6996.9	7116.3	7357.9	7604.7	7748.1	7854.3	7785.2	7716.2	7498.6	7251.7
10°	7209.2	7243.8	7405.7	7729.5	8016.2	8178.1	8308.2	8292.2	8196.7	7952.5	7620.7
12.5°	7464.1	7488.0	7663.1	7987.0	8244.5	8316.1	8422.3	8456.8	8424.9	8241.8	7915.3
15°	7737.5	7782.6	7944.5	8191.4	8308.2	8233.8	8271.0	8366.6	8456.8	8456.8	8156.9
17.5°	7992.3	8032.1	8196.7	8302.8	8191.4	7994.9	8005.6	8127.7	8342.7	8568.3	8377.2
20°	8217.9	8255.1	8417.0	8316.1	7963.1	7676.4	7668.5	7817.1	8164.8	8640.0	8613.4
22.5°	8464.8	8517.9	8653.2	8326.7	7750.7	7387.1	7384.4	7538.4	8008.2	8711.6	8884.2
25°	8815.1	8897.4	8966.4	8419.6	7636.6	7198.6	7233.1	7379.1	7957.8	8828.4	9285.0
27.5°	9335.4	9401.8	9396.4	8613.4	7631.3	7121.7	7193.3	7363.2	8048.0	9035.5	9707.0
30°	9898.1	9932.6	9876.9	8884.2	7753.4	7169.4	7275.6	7477.3	8276.3	9377.9	10328.1
32.5°	10521.9	10564.4	10458.2	9290.3	8037.4	7522.5	7756.0	7854.3	8597.5	9871.6	10986.4
35°	11238.6	11320.9	11100.5	9826.5	8873.5	8809.8	9149.6	9022.2	9279.7	10455.5	11689.8
37.5°	11992.4	11995.1	11679.2	10620.1	10513.9	10622.8	11302.3	10904.1	10726.3	11105.9	12406.5
40°	12632.1	12616.2	12130.4	11689.8	11942.0	12374.6	13194.8	12584.3	12117.2	11979.1	13001.1
42.5°	13271.8	13213.4	12722.4	12369.3	12926.7	13816.0	14742.3	13993.8	13009.0	12772.8	13587.7
45°	14089.4	14070.8	13478.9	12640.1	13816.0	15429.8	16658.8	15445.7	13537.3	13234.7	14564.5
47.5°	15408.6	15318.3	14216.8	12618.8	14649.4	17579.8	19132.6	17274.6	13906.2	13245.3	16141.2
50°	16698.6	16587.1	15098.0	12616.2	15509.4	19809.5	22052.4	19496.3	14283.1	13309.0	17744.4
52.5°	18001.9	18001.9	16544.6	12916.1	16411.9	22299.3	25426.1	22264.8	14925.5	14142.4	19716.6
55°	18777.0	18984.0	18171.8	13423.1	17468.4	25229.7	28762.7	25253.6	15918.2	15647.5	21537.5
57.5°	17792.2	18179.7	18062.9	13070.1	18092.1	27382.4	31592.2	27520.4	16409.3	15825.3	21264.1
60°	14498.1	15037.0	15305.1	11286.4	17476.3	27631.9	32184.2	27669.1	15395.3	13476.2	18214.2
62.5°	9638.0	10081.3	10490.0	8064.0	15129.9	24858.1	28465.4	24866.1	12857.7	10057.4	12618.8
65°	4727.4	5056.6	5497.2	4767.2	11819.9	20770.4	22193.1	20093.5	9300.9	5629.9	6436.8
67.5°	1236.9	1329.8	1390.9	1850.1	8467.4	14922.8	14474.2	14697.2	5975.0	1839.5	1682.9
70°	642.4	647.7	645.0	764.5	5722.8	9484.0	9975.1	9229.2	4170.0	769.8	663.6
72.5°	459.2	461.9	453.9	514.9	2763.2	5433.5	5629.9	5568.9	2184.5	456.6	453.9
75°	299.9	302.6	297.3	302.6	416.7	618.5	570.7	599.9	363.6	289.3	289.3
77.5°	177.8	180.5	177.8	183.2	177.8	177.8	164.6	164.6	156.6	156.6	159.3
80°	119.4	119.4	116.8	122.1	111.5	111.5	106.2	103.5	95.6	92.9	92.9
82.5°	71.7	74.3	71.7	71.7	66.4	66.4	61.1	58.4	50.4	50.4	47.8
85°	37.2	37.2	34.5	34.5	29.2	26.5	21.2	21.2	15.9	13.3	13.3
87.5°	5.3	5.3	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



REPORT NUMBER: P640684

CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1
2.5°	6362.5	6309.4	6229.8	6152.8	6081.1	6006.8	5921.9	5834.3	5760.0	5683.0	5643.2
5°	6747.4	6638.6	6431.5	6248.4	6083.8	5948.4	5802.4	5677.7	5560.9	5465.3	5417.6
7.5°	7095.1	6925.2	6612.0	6322.7	6099.7	5913.9	5712.2	5526.4	5369.8	5253.0	5207.9
10°	7416.3	7214.6	6803.1	6436.8	6176.7	5969.7	5722.8	5470.6	5263.6	5109.6	5072.5
12.5°	7676.4	7445.5	6954.4	6529.7	6221.8	5998.9	5781.2	5563.5	5359.2	5160.1	5128.2
15°	7907.3	7633.9	7068.6	6588.1	6205.9	5921.9	5738.7	5712.2	5712.2	5486.6	5422.9
17.5°	8106.4	7806.5	7161.5	6614.7	6105.0	5693.6	5582.1	5813.1	6073.2	5911.3	5767.9
20°	8334.7	7971.1	7238.4	6614.7	5919.2	5404.3	5393.7	5786.5	6171.4	6174.0	6022.7
22.5°	8565.6	8162.2	7328.7	6590.8	5664.4	5069.8	5266.3	5680.3	6022.7	6168.7	6065.2
25°	8939.9	8427.6	7472.0	6572.2	5367.1	4841.6	5152.1	5539.7	5829.0	5982.9	5916.6
27.5°	9415.0	8778.0	7689.7	6601.4	5072.5	4706.2	5030.0	5356.5	5619.3	5754.7	5706.9
30°	9945.9	9181.4	7923.3	6651.8	4860.1	4637.2	4884.0	5146.8	5380.4	5515.8	5494.5
32.5°	10622.8	9619.4	8125.0	6582.8	4740.7	4602.7	4730.1	4918.5	5144.2	5229.1	5247.7
35°	11432.3	10102.5	8279.0	6312.1	4631.9	4565.5	4562.8	4679.6	4838.9	4974.3	4987.5
37.5°	12178.2	10667.9	8448.8	5847.6	4435.4	4472.6	4366.4	4435.4	4592.0	4727.4	4780.5
40°	12916.1	11241.2	8685.1	5255.6	4178.0	4265.6	4140.8	4188.6	4313.3	4491.2	4576.1
42.5°	13632.8	11758.8	8934.6	4650.4	3920.5	3976.2	3883.3	3931.1	4061.2	4284.1	4379.7
45°	14413.2	12459.6	9128.4	4079.8	3697.5	3673.6	3599.3	3668.3	3864.8	4109.0	4223.1
47.5°	15889.0	13563.8	9255.8	3700.2	3578.1	3405.5	3320.6	3469.3	3692.2	3939.1	4077.1
50°	17691.3	15161.7	9218.6	3458.6	3474.6	3129.5	3100.3	3296.7	3535.6	3793.1	3944.4
52.5°	19119.4	16730.4	8796.6	3227.7	3272.8	2954.3	2869.4	3156.0	3384.3	3647.1	3803.7
55°	20210.3	17258.7	7501.2	2954.3	2943.7	2826.9	2649.1	3010.0	3233.0	3477.2	3647.1
57.5°	19321.1	16082.8	5560.9	2577.4	2513.7	2574.7	2402.2	2763.2	3047.2	3288.8	3440.1
60°	16035.0	12823.2	3097.6	2282.8	2102.3	2250.9	2224.4	2503.1	2845.5	3100.3	3230.4
62.5°	10885.5	8539.1	1836.8	1805.0	1704.1	1916.5	2057.1	2240.3	2577.4	2784.4	2906.5
65°	5425.5	4148.8	1221.0	1351.1	1364.3	1576.7	1842.1	2043.9	2325.2	2537.6	2659.7
67.5°	1574.0	1290.0	929.0	1032.5	1175.9	1345.8	1558.1	1797.0	2070.4	2322.6	2465.9
70°	679.5	687.5	737.9	860.0	1000.7	1175.9	1388.2	1621.8	1852.7	2046.5	2155.3
72.5°	480.4	499.0	554.8	679.5	812.2	979.5	1191.8	1417.4	1584.7	1781.1	1895.2
75°	307.9	321.2	366.3	461.9	560.1	722.0	923.7	1130.8	1303.3	1444.0	1552.8
77.5°	169.9	172.5	209.7	265.4	331.8	435.3	584.0	745.9	873.3	952.9	1051.1
80°	98.2	98.2	116.8	151.3	191.1	254.8	337.1	416.7	493.7	544.1	591.9
82.5°	53.1	53.1	61.1	82.3	103.5	140.7	188.5	228.3	276.1	302.6	334.4
85°	15.9	15.9	21.2	29.2	37.2	53.1	74.3	95.6	116.8	135.4	154.0
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



REPORT NUMBER: P640684

CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1
2.5°	5635.2	5598.1	5576.8	5550.3	5558.2	5534.3	5521.1	5529.0	5481.3	5529.0	5576.8
5°	5399.0	5345.9	5303.4	5268.9	5253.0	5221.1	5202.6	5202.6	5173.4	5221.1	5279.5
7.5°	5191.9	5149.5	5128.2	5107.0	5083.1	5053.9	5022.1	5011.4	4992.9	5043.3	5093.7
10°	5053.9	5059.2	5072.5	5101.7	5096.4	5077.8	5030.0	5003.5	5003.5	5061.9	5138.8
12.5°	5117.6	5173.4	5205.2	5258.3	5268.9	5253.0	5205.2	5184.0	5237.1	5324.7	5452.1
15°	5364.5	5401.6	5428.2	5470.6	5468.0	5454.7	5417.6	5433.5	5608.7	5778.5	5892.7
17.5°	5632.6	5590.1	5584.8	5611.3	5619.3	5603.4	5582.1	5653.8	5943.1	6102.4	6160.8
20°	5826.3	5680.3	5648.5	5659.1	5680.3	5672.4	5672.4	5789.2	6089.1	6163.4	6089.1
22.5°	5884.7	5677.7	5629.9	5632.6	5661.8	5664.4	5677.7	5799.8	5975.0	5977.6	5863.5
25°	5791.8	5592.7	5558.2	5563.5	5598.1	5595.4	5600.7	5669.7	5746.7	5714.8	5629.9
27.5°	5616.6	5444.1	5433.5	5462.7	5507.8	5483.9	5468.0	5486.6	5523.7	5483.9	5409.6
30°	5417.6	5271.6	5276.9	5332.6	5380.4	5340.6	5300.8	5311.4	5314.0	5271.6	5186.6
32.5°	5207.9	5099.0	5117.6	5176.0	5231.7	5189.3	5146.8	5141.5	5091.1	5040.6	4958.3
35°	4998.2	4955.7	4979.6	5027.4	5075.1	5040.6	5014.1	4998.2	4889.3	4815.0	4746.0
37.5°	4807.1	4838.9	4881.4	4910.6	4926.5	4923.8	4907.9	4870.8	4727.4	4639.8	4549.6
40°	4637.2	4735.4	4780.5	4793.8	4817.7	4812.4	4809.7	4756.6	4568.2	4475.3	4371.7
42.5°	4483.2	4621.2	4698.2	4711.5	4724.8	4727.4	4719.5	4642.5	4427.5	4318.6	4220.4
45°	4334.6	4515.1	4613.3	4600.0	4618.6	4618.6	4626.6	4525.7	4289.5	4178.0	4074.4
47.5°	4204.5	4416.9	4507.1	4491.2	4501.8	4509.8	4517.7	4400.9	4138.2	4032.0	3925.8
50°	4085.1	4310.7	4387.7	4393.0	4393.0	4411.6	4408.9	4294.8	4010.7	3896.6	3790.4
52.5°	3957.7	4201.9	4284.1	4318.6	4329.3	4337.2	4300.1	4167.3	3880.7	3742.7	3644.4
55°	3809.0	4090.4	4164.7	4209.8	4231.1	4225.7	4175.3	4039.9	3748.0	3609.9	3498.5
57.5°	3583.4	3851.5	3957.7	3978.9	4013.4	3992.2	3933.8	3819.6	3535.6	3397.6	3283.4
60°	3336.5	3530.3	3615.2	3633.8	3607.3	3615.2	3607.3	3498.5	3251.6	3142.8	3026.0
62.5°	3012.7	3185.2	3275.5	3299.4	3254.2	3283.4	3272.8	3137.5	2890.6	2776.5	2672.9
65°	2768.5	2957.0	3063.1	3076.4	3063.1	3076.4	3039.2	2874.7	2641.1	2524.3	2418.1
67.5°	2577.4	2771.2	2882.6	2919.8	2906.5	2903.9	2845.5	2654.4	2412.8	2285.4	2150.0
70°	2248.2	2418.1	2561.5	2651.7	2651.7	2601.3	2489.8	2312.0	2118.2	2009.4	1903.2
72.5°	1990.8	2205.8	2346.5	2439.4	2457.9	2428.7	2272.1	2083.7	1860.7	1751.9	1640.4
75°	1640.4	1850.1	2001.4	2123.5	2147.4	2115.5	1935.0	1749.2	1542.2	1436.0	1324.5
77.5°	1096.3	1221.0	1343.1	1454.6	1430.7	1451.9	1329.8	1189.2	1061.7	982.1	931.7
80°	618.5	700.8	737.9	799.0	799.0	799.0	719.3	653.0	581.3	536.2	485.7
82.5°	350.4	403.5	419.4	469.8	483.1	485.7	432.7	390.2	345.1	321.2	286.7
85°	161.9	191.1	193.8	223.0	233.6	254.8	230.9	201.7	175.2	164.6	143.3
87.5°	5.3	15.9	21.2	39.8	53.1	61.1	66.4	66.4	55.7	50.4	42.5
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: P640684

CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1	5951.1
2.5°	5635.2	5698.9	5773.2	5826.3	5921.9	6001.5	6083.8	6174.0	6240.4	6224.5
5°	5351.2	5457.4	5592.7	5717.5	5895.3	6075.8	6274.9	6479.3	6598.7	6593.4
7.5°	5191.9	5343.2	5507.8	5675.0	5884.7	6144.9	6450.1	6768.6	6930.5	6938.5
10°	5276.9	5438.8	5550.3	5691.0	5911.3	6237.8	6604.1	6986.3	7172.1	7209.2
12.5°	5545.0	5531.7	5523.7	5624.6	5890.0	6304.1	6752.7	7209.2	7418.9	7464.1
15°	5799.8	5526.4	5361.8	5430.8	5794.5	6346.6	6898.7	7453.5	7689.7	7737.5
17.5°	5847.6	5433.5	5128.2	5176.0	5643.2	6359.9	7039.4	7692.3	7947.2	7992.3
20°	5714.8	5314.0	4958.3	4892.0	5452.1	6325.3	7127.0	7891.4	8170.1	8217.9
22.5°	5547.6	5207.9	4830.9	4658.4	5218.5	6290.8	7225.2	8101.1	8422.3	8464.8
25°	5372.4	5072.5	4711.5	4448.7	4953.0	6269.6	7389.7	8377.2	8764.7	8815.1
27.5°	5186.6	4907.9	4608.0	4347.8	4708.8	6296.1	7623.3	8823.1	9263.7	9335.4
30°	4987.5	4743.3	4541.6	4313.3	4541.6	6320.0	7880.8	9279.7	9797.3	9898.1
32.5°	4780.5	4592.0	4472.6	4329.3	4438.1	6264.3	8106.4	9791.9	10434.3	10521.9
35°	4573.5	4438.1	4385.0	4358.5	4300.1	6059.9	8289.6	10309.5	11161.6	11238.6
37.5°	4379.7	4278.8	4262.9	4292.1	4087.7	5725.5	8501.9	10967.8	11875.6	11992.4
40°	4199.2	4106.3	4103.6	4098.3	3854.1	5268.9	8788.6	11636.7	12579.0	12632.1
42.5°	4032.0	3915.2	3936.4	3872.7	3663.0	4775.2	9059.3	12207.4	13234.7	13271.8
45°	3883.3	3729.4	3753.3	3673.6	3572.8	4257.6	9298.2	12881.6	14065.5	14089.4
47.5°	3740.0	3575.4	3509.1	3503.8	3556.8	3779.8	9531.8	14179.6	15366.1	15408.6
50°	3607.3	3429.4	3241.0	3357.8	3458.6	3421.5	9823.8	15570.5	16709.2	16698.6
52.5°	3479.9	3246.3	2978.2	3203.8	3203.8	3156.0	9741.5	16414.6	17818.7	18001.9
55°	3333.9	2951.7	2704.8	2946.3	2829.6	2917.1	8284.3	16690.6	18516.8	18777.0
57.5°	3044.6	2588.0	2373.0	2503.1	2327.9	2704.8	5951.1	15321.0	17330.3	17792.2
60°	2765.8	2319.9	2179.2	2155.3	1927.1	2205.8	3856.8	11995.1	14264.5	14498.1
62.5°	2439.4	2089.0	1969.5	1786.4	1550.1	1605.9	2335.8	7894.1	9584.9	9638.0
65°	2192.5	1892.6	1664.3	1446.6	1268.8	1165.3	1380.3	3806.4	4791.1	4727.4
67.5°	1881.9	1621.8	1404.2	1247.6	1101.6	971.5	918.4	1130.8	1279.4	1236.9
70°	1674.9	1425.4	1215.7	1067.1	931.7	801.6	708.7	666.2	653.0	642.4
72.5°	1444.0	1226.3	1008.7	865.3	737.9	618.5	533.5	483.1	469.8	459.2
75°	1152.0	947.6	748.5	613.2	501.7	416.7	361.0	318.5	310.6	299.9
77.5°	761.8	607.8	445.9	363.6	297.3	252.2	215.0	188.5	183.2	177.8
80°	419.4	350.4	273.4	220.3	177.8	154.0	140.7	124.8	122.1	119.4
82.5°	249.5	209.7	156.6	124.8	103.5	92.9	84.9	77.0	74.3	71.7
85°	124.8	98.2	69.0	58.4	53.1	47.8	47.8	39.8	37.2	37.2
87.5°	31.9	26.5	15.9	13.3	13.3	13.3	10.6	8.0	8.0	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)