

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: P643759

Luminaire Tested: GWS-SA6F-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27299.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

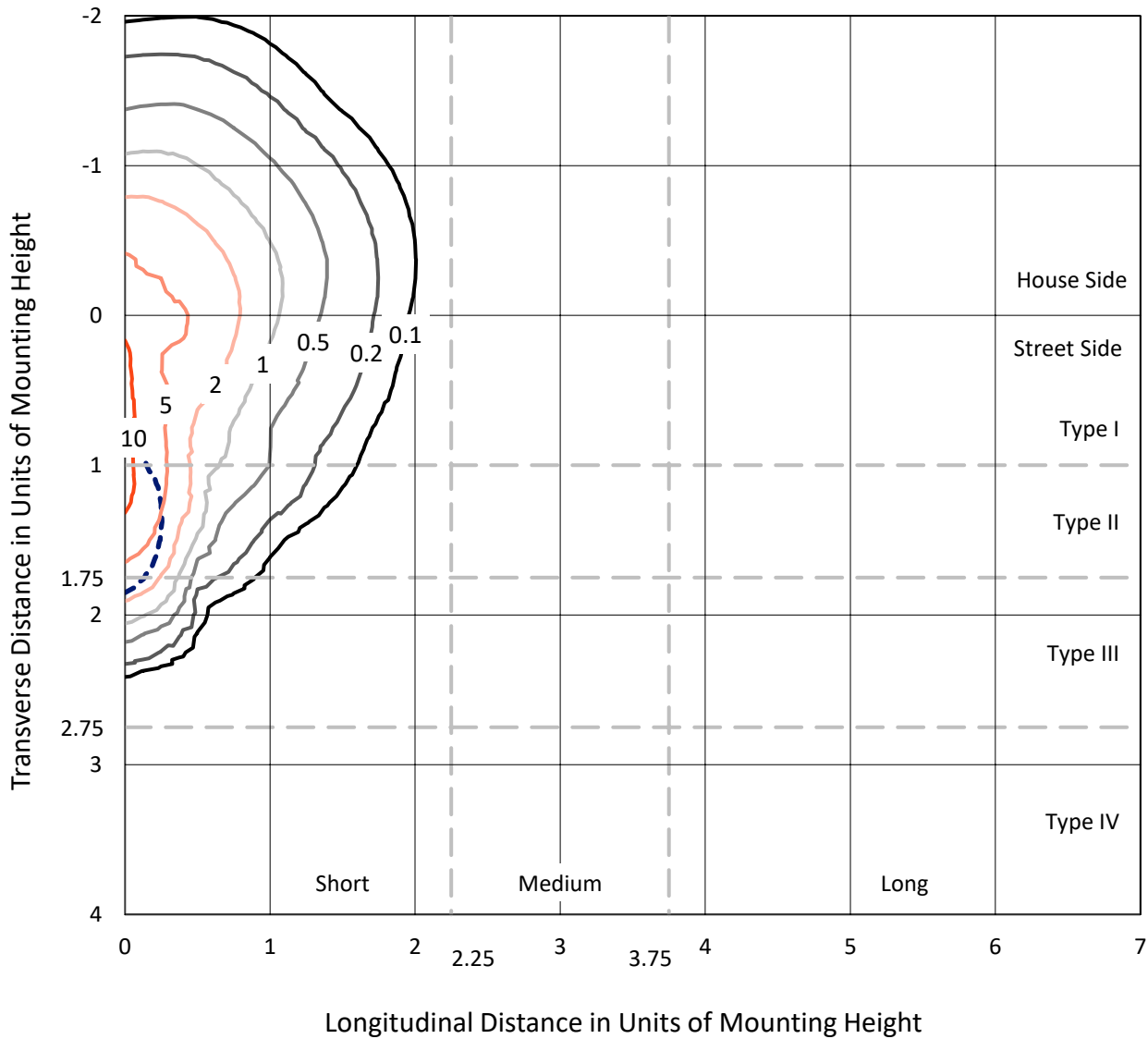
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643759
 CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

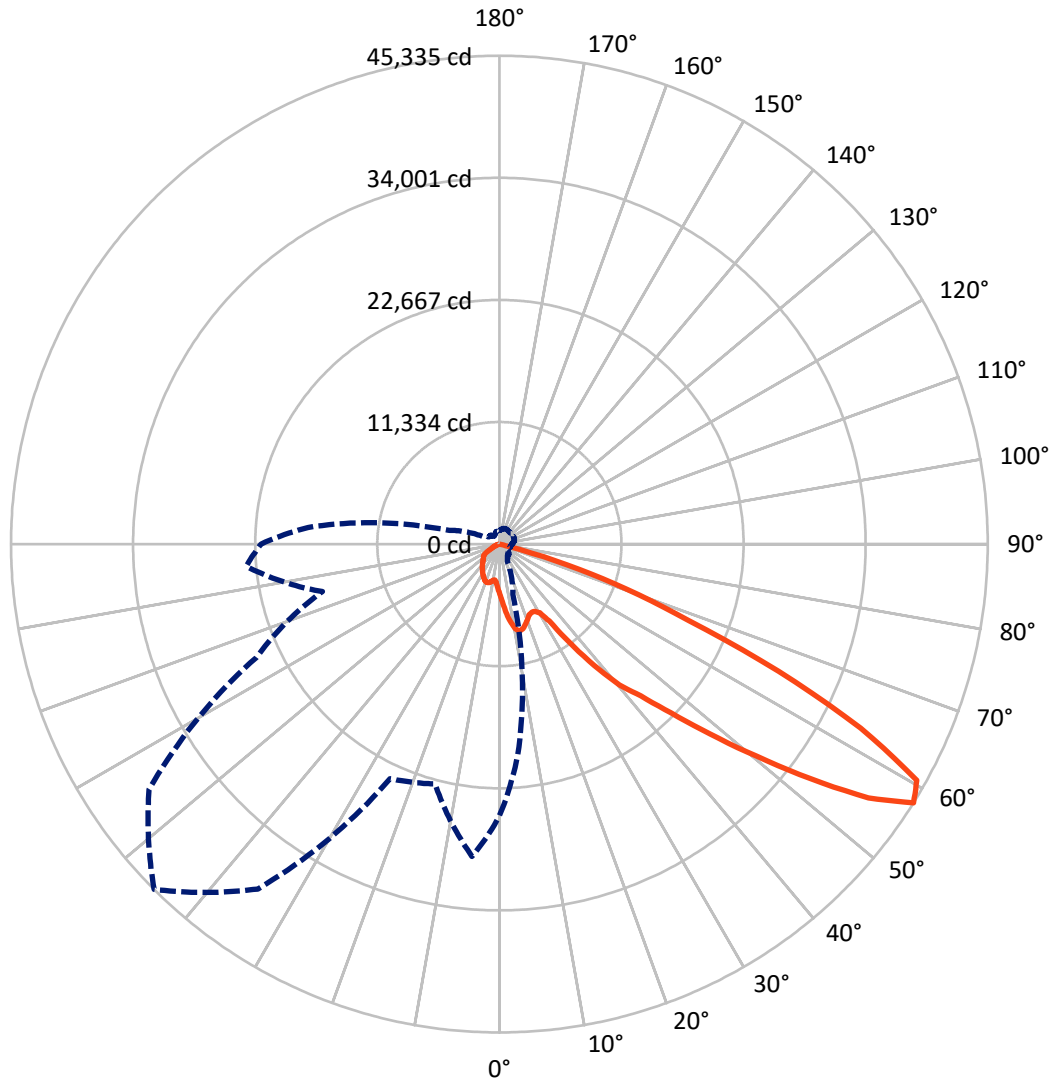
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

REPORT NUMBER: P643759
CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643759

CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5881.2	0.0	5881.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	21418.1	0.0	21418.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	27299.3	0.0	27299.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.5	1.7
10°-20°	1508.6	5.5
20°-30°	2448.3	9.0
30°-40°	3757.5	13.8
40°-50°	6001.0	22.0
50°-60°	8402.5	30.8
60°-70°	4308.2	15.8
70°-80°	414.8	1.5
80°-90°	0.0	0.0
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°	27299.3	100.0
0°-180°	27299.3	100.0

Coefficient of Utilization



REPORT NUMBER: P643759

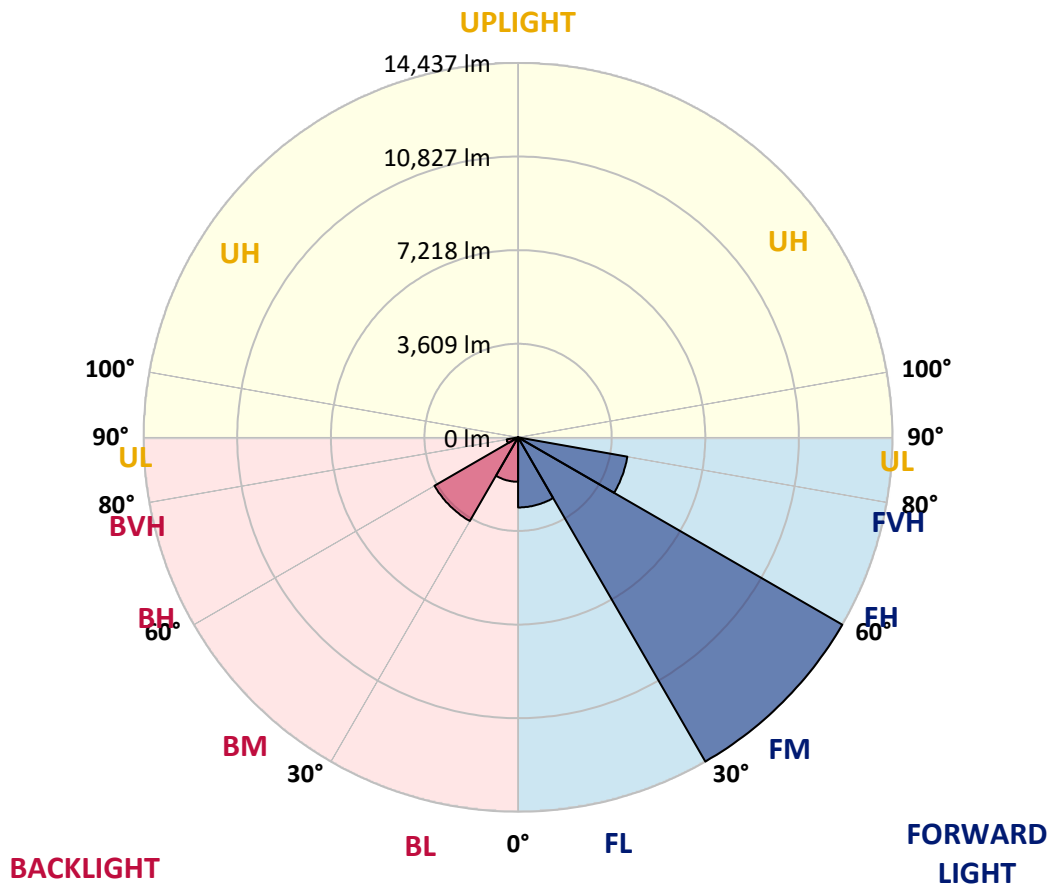
CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2702.8	9.9			
FM (30°-60°)	14436.5	52.9			
FH (60°-80°)	4278.8	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1712.5	6.3	B3/2500		
BM (30°-60°)	3724.5	13.6	B3/5000		
BH (60°-80°)	444.2	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P643759
 CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6
2.5°	5153.1	5142.2	5105.7	4981.6	4905.0	4784.5	4696.9	4583.8	4459.7	4383.1	4306.4
5°	5700.6	5671.4	5572.8	5288.2	5069.2	4832.0	4642.2	4434.2	4211.6	4065.6	3930.5
7.5°	6226.1	6182.3	6050.9	5569.2	5237.1	4897.7	4627.6	4324.7	4010.8	3791.9	3624.0
10°	6740.7	6642.1	6434.1	5842.9	5394.0	4985.3	4667.8	4321.0	3952.4	3675.1	3489.0
12.5°	7164.0	7091.0	6806.4	6102.0	5525.4	5003.5	4613.0	4291.8	4043.7	3857.6	3686.0
15°	7529.0	7448.7	7178.6	6335.6	5638.5	4930.5	4383.1	4102.1	4142.2	4215.2	4069.2
17.5°	7864.7	7780.8	7488.8	6529.0	5682.3	4751.7	4061.9	3926.9	4149.5	4423.2	4368.5
20°	8211.4	8116.6	7758.9	6685.9	5667.7	4470.7	3737.1	3777.3	4091.1	4405.0	4434.2
22.5°	8616.5	8518.0	8102.0	6886.7	5656.8	4134.9	3456.1	3645.9	3981.6	4248.1	4299.1
25°	9153.0	9036.2	8580.1	7182.3	5686.0	3828.4	3255.4	3518.1	3795.5	4036.4	4065.6
27.5°	9861.0	9711.4	9131.1	7547.2	5748.0	3587.5	3167.8	3343.0	3558.3	3773.6	3799.2
30°	10784.4	10594.6	9762.5	7864.7	5718.8	3419.6	3109.4	3167.8	3295.5	3470.7	3474.4
32.5°	11864.6	11605.5	10470.5	8138.5	5467.0	3295.5	3029.1	2989.0	3018.2	3153.2	3178.7
35°	13134.7	12798.9	11251.5	8397.6	5007.2	3054.7	2883.1	2748.1	2737.1	2802.8	2864.9
37.5°	14590.8	14189.4	12236.9	8729.7	4463.4	2802.8	2667.8	2532.8	2474.4	2507.2	2602.1
40°	15933.9	15488.6	13266.0	9131.1	3908.6	2576.6	2416.0	2277.3	2208.0	2218.9	2335.7
42.5°	17510.5	17050.6	14525.1	9656.7	3448.8	2423.3	2153.2	2010.9	1919.7	1970.7	2105.8
45°	19904.5	19382.7	16360.9	10112.9	3083.9	2386.8	1923.3	1722.6	1678.8	1766.4	1927.0
47.5°	23174.5	22535.9	18882.7	10390.2	2773.6	2419.6	1762.7	1489.0	1500.0	1598.5	1759.1
50°	26419.0	25729.2	21798.7	10025.3	2518.2	2353.9	1682.4	1306.5	1375.9	1463.5	1609.4
52.5°	28648.8	27751.0	23218.3	8970.6	2284.6	2105.8	1675.1	1135.0	1266.4	1295.6	1419.7
55°	28736.4	27630.6	22492.1	7072.8	1967.1	1777.3	1598.5	992.7	1146.0	1156.9	1262.7
57.5°	25189.1	24189.1	19656.4	4857.5	1748.1	1302.9	1273.7	868.6	941.6	1032.8	1098.5
60°	19163.7	18313.4	14700.3	2226.2	1328.4	828.4	872.2	748.2	704.4	839.4	905.1
62.5°	11736.9	11193.1	8817.3	985.4	846.7	441.6	529.2	594.9	529.2	580.3	635.0
65°	4660.5	4419.6	3346.6	419.7	346.7	222.6	240.9	346.7	372.3	408.7	459.8
67.5°	810.2	766.4	562.0	186.1	142.3	135.0	116.8	160.6	226.3	251.8	292.0
70°	105.8	102.2	91.2	76.6	73.0	65.7	51.1	102.2	153.3	160.6	186.1
72.5°	25.5	21.9	21.9	18.2	21.9	7.3	7.3	54.7	109.5	113.1	131.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	69.3	76.6	91.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P643759

CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6
2.5°	4244.4	4171.4	4145.9	4109.4	4061.9	4076.5	4010.8	3988.9	4021.8	4065.6	4054.6
5°	3857.6	3777.3	3722.5	3638.6	3624.0	3591.1	3569.2	3540.0	3576.5	3627.6	3638.6
7.5°	3551.0	3481.7	3426.9	3401.4	3383.1	3368.5	3324.7	3302.8	3302.8	3324.7	3343.0
10°	3419.6	3368.5	3357.6	3364.9	3394.1	3390.4	3350.3	3321.1	3284.6	3266.3	3288.2
12.5°	3602.1	3518.1	3503.6	3507.2	3543.7	3540.0	3496.3	3459.8	3452.5	3459.8	3529.1
15°	3912.3	3784.6	3689.7	3671.4	3689.7	3682.4	3649.5	3627.6	3638.6	3744.4	3861.2
17.5°	4189.7	3992.6	3821.1	3755.4	3751.7	3740.8	3707.9	3700.6	3755.4	3952.4	4124.0
20°	4270.0	4076.5	3832.0	3748.1	3729.8	3718.9	3682.4	3693.3	3762.7	3999.9	4145.9
22.5°	4164.1	3978.0	3722.5	3638.6	3624.0	3620.3	3583.8	3598.4	3656.8	3864.9	3985.3
25°	3963.4	3806.5	3540.0	3467.1	3467.1	3459.8	3426.9	3434.2	3470.7	3653.2	3770.0
27.5°	3718.9	3569.2	3346.6	3273.6	3284.6	3295.5	3255.4	3244.4	3273.6	3445.2	3514.5
30°	3437.9	3332.0	3156.8	3091.2	3087.5	3131.3	3076.6	3062.0	3102.1	3237.1	3251.7
32.5°	3164.1	3113.1	2989.0	2937.9	2941.5	2948.8	2919.6	2919.6	2956.1	3029.1	3025.5
35°	2897.7	2864.9	2843.0	2806.5	2802.8	2788.2	2788.2	2795.5	2835.7	2861.2	2813.8
37.5°	2642.3	2675.1	2700.7	2664.2	2635.0	2635.0	2635.0	2667.8	2704.3	2693.4	2613.1
40°	2416.0	2485.3	2565.6	2525.5	2456.1	2452.5	2467.1	2521.8	2576.6	2510.9	2437.9
42.5°	2222.6	2310.2	2423.3	2401.4	2324.8	2313.8	2324.8	2394.1	2437.9	2353.9	2273.7
45°	2032.8	2142.3	2277.3	2277.3	2193.4	2182.4	2186.1	2277.3	2302.9	2204.3	2102.1
47.5°	1872.2	1992.6	2135.0	2135.0	2065.6	2043.7	2062.0	2156.9	2175.1	2036.4	1941.6
50°	1718.9	1850.3	2007.2	1996.3	1948.9	1930.6	1963.4	2065.6	2043.7	1890.5	1791.9
52.5°	1525.5	1664.2	1879.5	1890.5	1864.9	1868.6	1908.7	1974.4	1912.4	1726.2	1642.3
55°	1350.3	1492.7	1708.0	1766.4	1766.4	1762.7	1781.0	1832.1	1781.0	1558.4	1456.2
57.5°	1160.6	1281.0	1459.8	1474.4	1485.4	1445.2	1470.8	1540.1	1514.6	1324.8	1266.4
60°	952.5	1054.7	1156.9	1167.9	1120.4	1036.5	1083.9	1164.2	1182.4	1040.1	974.4
62.5°	675.2	773.7	894.1	894.1	846.7	762.8	824.8	894.1	868.6	722.6	682.5
65°	503.6	594.9	686.1	726.3	686.1	627.7	675.2	726.3	686.1	565.7	507.3
67.5°	324.8	386.9	441.6	474.4	481.7	474.4	496.3	481.7	434.3	354.0	321.2
70°	197.1	229.9	259.1	288.3	310.2	321.2	332.1	299.3	251.8	208.0	197.1
72.5°	142.3	171.5	197.1	219.0	244.5	251.8	251.8	229.9	186.1	146.0	135.0
75°	98.5	124.1	146.0	160.6	182.5	189.8	189.8	171.5	138.7	105.8	94.9
77.5°	3.6	25.5	25.5	21.9	29.2	36.5	36.5	43.8	40.1	29.2	25.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P643759

CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6
2.5°	4076.5	4207.9	4244.4	4379.4	4499.9	4620.3	4766.3	4853.9	4985.3	5076.5	5127.6
5°	3675.1	3784.6	3915.9	4116.7	4324.7	4554.6	4832.0	5072.8	5375.8	5598.4	5671.4
7.5°	3383.1	3525.4	3678.7	3930.5	4215.2	4521.8	4912.3	5306.4	5769.9	6072.8	6266.2
10°	3328.4	3474.4	3678.7	3926.9	4226.2	4576.5	5054.6	5565.5	6145.8	6514.4	6733.4
12.5°	3591.1	3748.1	3835.7	3948.8	4175.1	4565.6	5178.7	5828.3	6510.8	6912.2	7145.8
15°	3978.0	4116.7	3974.3	3832.0	3978.0	4448.8	5248.0	6047.3	6831.9	7295.4	7536.3
17.5°	4244.4	4255.4	3945.1	3642.2	3682.4	4237.1	5273.6	6266.2	7175.0	7660.4	7912.2
20°	4218.9	4131.3	3817.4	3481.7	3357.6	3963.4	5244.4	6459.7	7521.7	8029.0	8277.1
22.5°	4021.8	3919.6	3653.2	3324.7	3083.9	3638.6	5193.3	6634.8	7839.2	8415.8	8649.4
25°	3784.6	3675.1	3456.1	3167.8	2908.7	3324.7	5153.1	6875.7	8240.6	8919.5	9101.9
27.5°	3507.2	3412.3	3226.2	3018.2	2835.7	3087.5	5142.2	7193.2	8726.0	9532.6	9660.3
30°	3237.1	3149.5	3003.6	2883.1	2806.5	2948.8	5105.7	7532.6	9306.3	10236.9	10375.6
32.5°	2978.0	2890.4	2799.2	2780.9	2784.6	2897.7	4981.6	7868.4	9996.1	11258.8	11361.0
35°	2755.4	2653.2	2616.7	2660.5	2740.8	2810.1	4631.3	8145.8	10736.9	12371.9	12455.9
37.5°	2543.7	2441.5	2437.9	2543.7	2631.3	2675.1	4218.9	8419.5	11736.9	13503.3	13609.1
40°	2350.3	2248.1	2284.6	2412.3	2481.7	2503.6	3718.9	8835.5	12795.3	14696.7	14638.3
42.5°	2186.1	2080.2	2102.1	2266.4	2328.4	2386.8	3259.0	9182.2	13813.5	15828.0	15809.8
45°	2025.5	1945.2	1930.6	2109.4	2164.2	2397.7	2923.3	9448.6	15123.7	17269.6	17298.8
47.5°	1868.6	1806.5	1810.2	1886.8	2021.8	2452.5	2638.6	9623.8	17025.1	19554.2	19046.9
50°	1726.2	1678.8	1718.9	1631.3	1930.6	2383.1	2394.1	9587.3	19149.1	21743.9	20725.7
52.5°	1569.3	1558.4	1576.6	1364.9	1784.6	2102.1	2164.2	9101.9	20145.4	23240.2	22659.9
55°	1408.7	1405.1	1259.1	1091.2	1492.7	1678.8	1854.0	7594.7	20112.6	24035.8	24740.2
57.5°	1218.9	1189.7	956.2	890.5	1160.6	1167.9	1689.7	4974.3	17824.3	22130.8	23590.6
60°	923.3	901.4	700.7	722.6	810.2	748.2	1346.7	2478.0	13320.8	17240.4	18886.3
62.5°	638.7	609.5	521.9	558.4	521.9	427.0	824.8	1226.2	8069.1	10886.6	12379.2
65°	467.1	434.3	357.7	306.6	244.5	244.5	313.9	470.8	3124.0	4627.6	5580.1
67.5°	288.3	273.7	211.7	153.3	149.6	160.6	164.2	233.6	503.6	802.9	981.7
70°	186.1	171.5	142.3	98.5	91.2	94.9	98.5	109.5	127.7	138.7	167.9
72.5°	127.7	120.4	102.2	54.7	43.8	47.4	51.1	51.1	62.0	58.4	69.3
75°	91.2	83.9	73.0	25.5	14.6	18.2	21.9	18.2	21.9	14.6	18.2
77.5°	25.5	25.5	18.2	3.6	0.0	3.6	7.3	7.3	3.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P643759

CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6	4638.6
2.5°	5259.0	5342.9	5375.8	5328.3	5368.5	5302.8	5277.2	5178.7	5171.4	5153.1
5°	5967.0	6156.8	6269.9	6339.2	6258.9	6171.4	6040.0	5813.7	5744.4	5700.6
7.5°	6664.0	6959.7	7153.1	7244.3	7222.4	7043.6	6806.4	6426.8	6291.8	6226.1
10°	7269.9	7631.2	7864.7	7977.9	7930.4	7773.5	7434.1	6959.7	6780.8	6740.7
12.5°	7693.2	8025.3	8185.9	8284.4	8288.1	8226.0	7904.9	7426.8	7215.1	7164.0
15°	7959.6	8102.0	8105.6	8164.0	8266.2	8404.9	8255.2	7831.9	7605.6	7529.0
17.5°	8127.5	7970.6	7810.0	7824.6	7992.5	8361.1	8514.4	8189.6	7948.7	7864.7
20°	8247.9	7751.6	7452.3	7456.0	7627.5	8185.9	8693.2	8536.3	8288.1	8211.4
22.5°	8324.6	7558.2	7131.2	7120.2	7302.7	7977.9	8857.4	8948.7	8704.1	8616.5
25°	8481.5	7466.9	6937.8	6999.8	7160.4	7912.2	9080.0	9496.1	9269.8	9153.0
27.5°	8762.5	7558.2	6919.5	7061.8	7244.3	8105.6	9466.9	10226.0	9992.4	9861.0
30°	9247.9	7901.2	7200.5	7397.6	7616.6	8612.9	10116.5	11244.2	10908.5	10784.4
32.5°	10028.9	8612.9	8069.1	8492.5	8704.1	9445.0	11090.9	12386.5	12112.8	11864.6
35°	11105.5	10236.9	10174.9	11160.3	11109.2	11021.6	12288.0	13787.9	13375.5	13134.7
37.5°	12587.2	12850.0	13309.8	14287.9	14255.1	13587.2	13860.9	15112.7	14901.0	14590.8
40°	14437.5	14995.9	15776.9	17178.3	16740.4	15901.0	15791.5	16470.3	16298.8	15933.9
42.5°	15528.8	16492.2	17981.2	19240.3	18890.0	17422.9	17298.8	18284.2	17908.3	17510.5
45°	16036.0	17711.2	20630.8	22335.1	21273.1	18433.8	18386.3	20649.1	20437.4	19904.5
47.5°	16269.6	18941.1	23732.9	26313.1	24327.8	19320.6	19149.1	24079.6	23802.2	23174.5
50°	16528.7	20638.1	27470.0	30922.5	28017.5	20324.2	20448.3	27276.6	27159.8	26419.0
52.5°	17098.1	22433.7	32072.1	36192.4	32491.8	21897.2	22678.2	30291.1	29502.8	28648.8
55°	17952.0	24389.8	36860.3	41575.5	37057.4	24010.3	25090.5	31893.3	29681.6	28736.4
57.5°	17006.8	24878.9	39696.0	45334.5	39082.8	24017.6	23050.4	29116.0	26105.1	25189.1
60°	13496.0	23145.3	38604.8	44520.6	37356.6	21327.9	17649.1	22732.9	19776.8	19163.7
62.5°	9123.8	19411.9	33984.4	37652.2	31973.6	16776.9	11470.5	14784.3	12244.2	11736.9
65°	4999.9	14481.3	27459.1	28484.6	25024.8	11718.6	5901.3	6415.9	4886.7	4660.5
67.5°	1379.5	10080.0	20203.8	18897.3	17557.9	7631.2	1525.5	1146.0	817.5	810.2
70°	346.7	6667.7	12105.5	12477.8	10766.1	4886.7	292.0	138.7	109.5	105.8
72.5°	146.0	2868.5	5744.4	6602.0	5510.8	2262.7	105.8	40.1	32.8	25.5
75°	18.2	229.9	489.0	740.9	507.3	244.5	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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)