

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: P638813

Luminaire Tested: GWS-SA4F-750-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18567.9 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

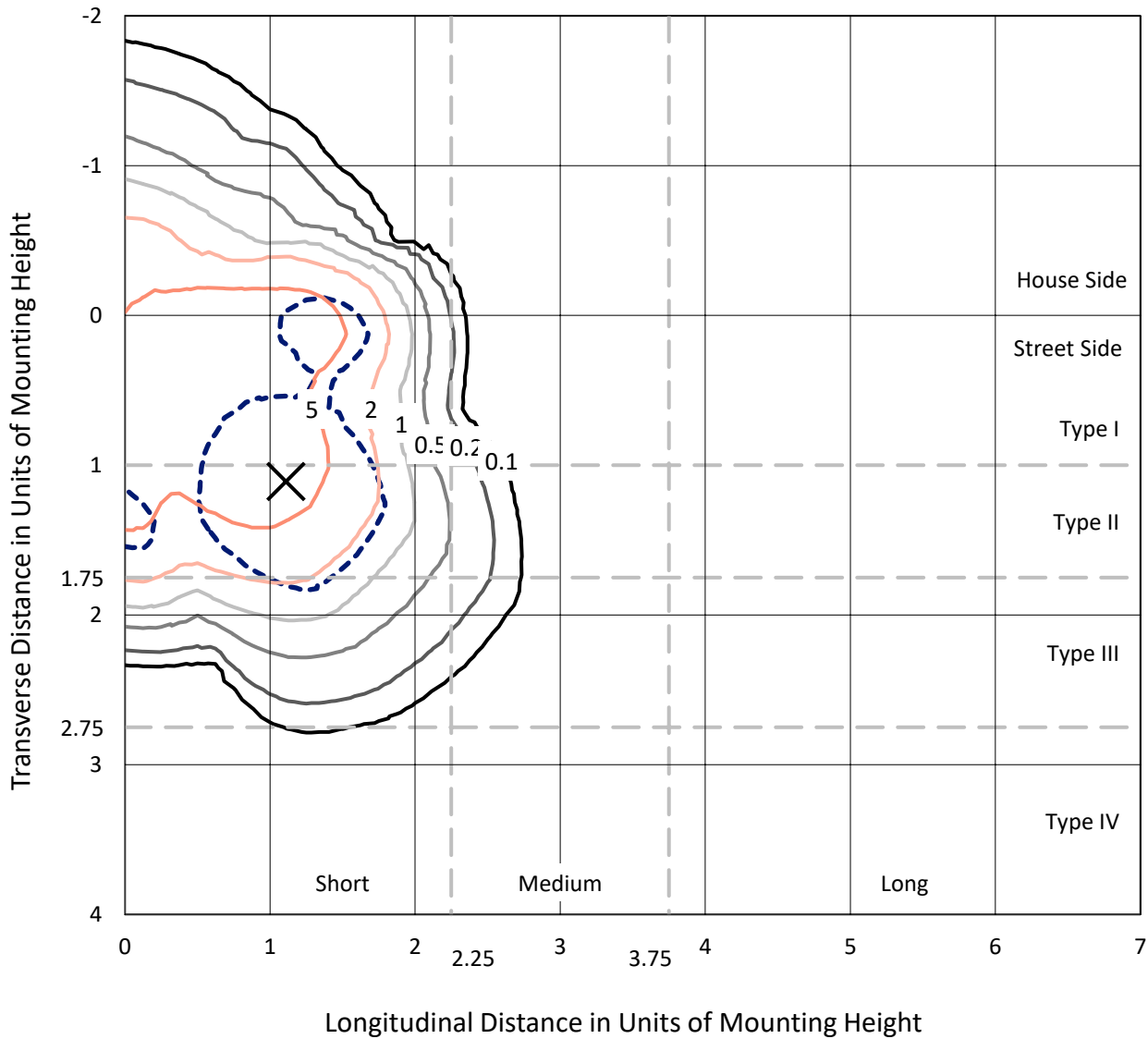
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638813
 CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

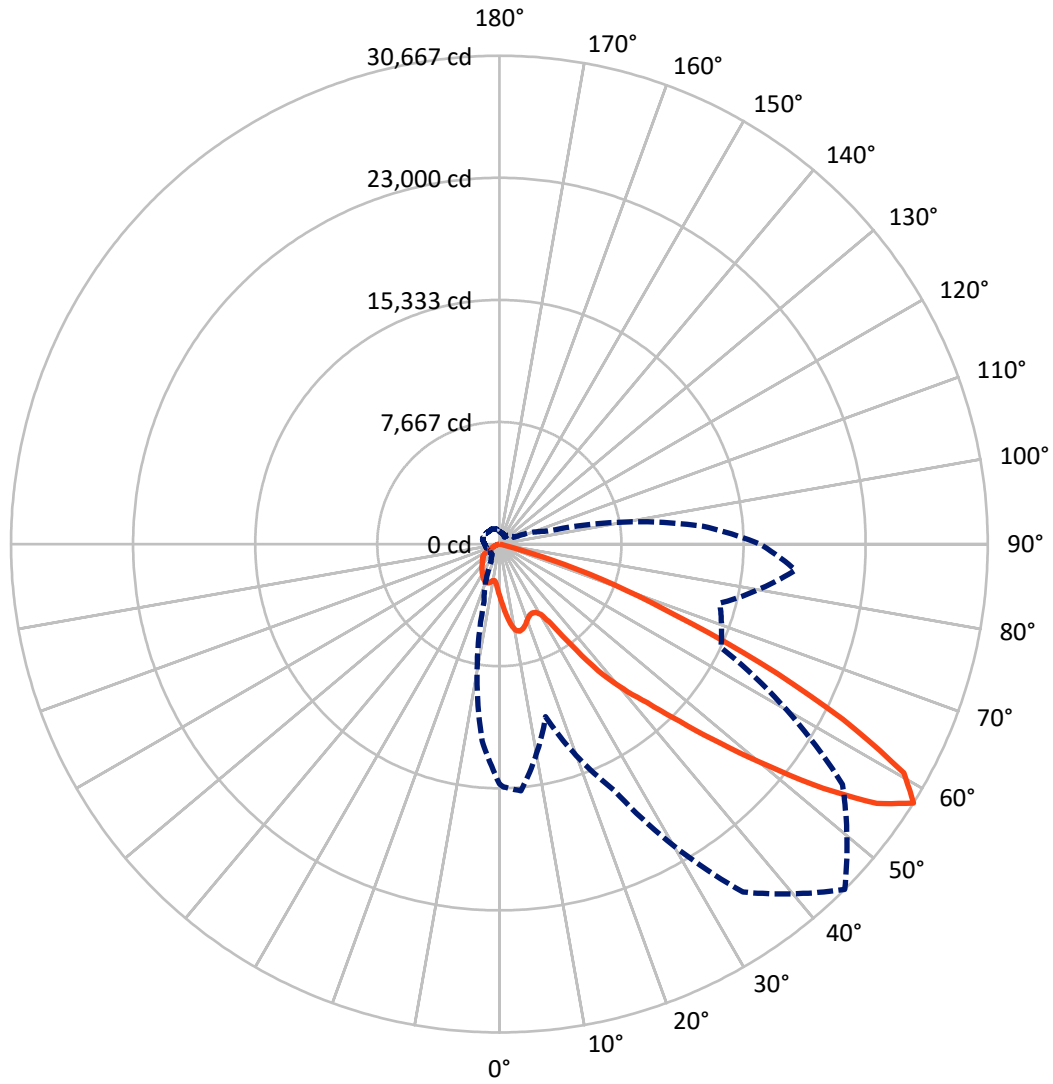
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

REPORT NUMBER: P638813
CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638813

CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4157.8	0.0	4157.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14410.1	0.0	14410.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	18567.9	0.0	18567.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	1.7
10°-20°	1038.6	5.6
20°-30°	1687.1	9.1
30°-40°	2606.9	14.0
40°-50°	4180.1	22.5
50°-60°	5713.1	30.8
60°-70°	2767.0	14.9
70°-80°	253.4	1.4
80°-90°	0.7	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°	18567.9	100.0
0°-180°	18567.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638813

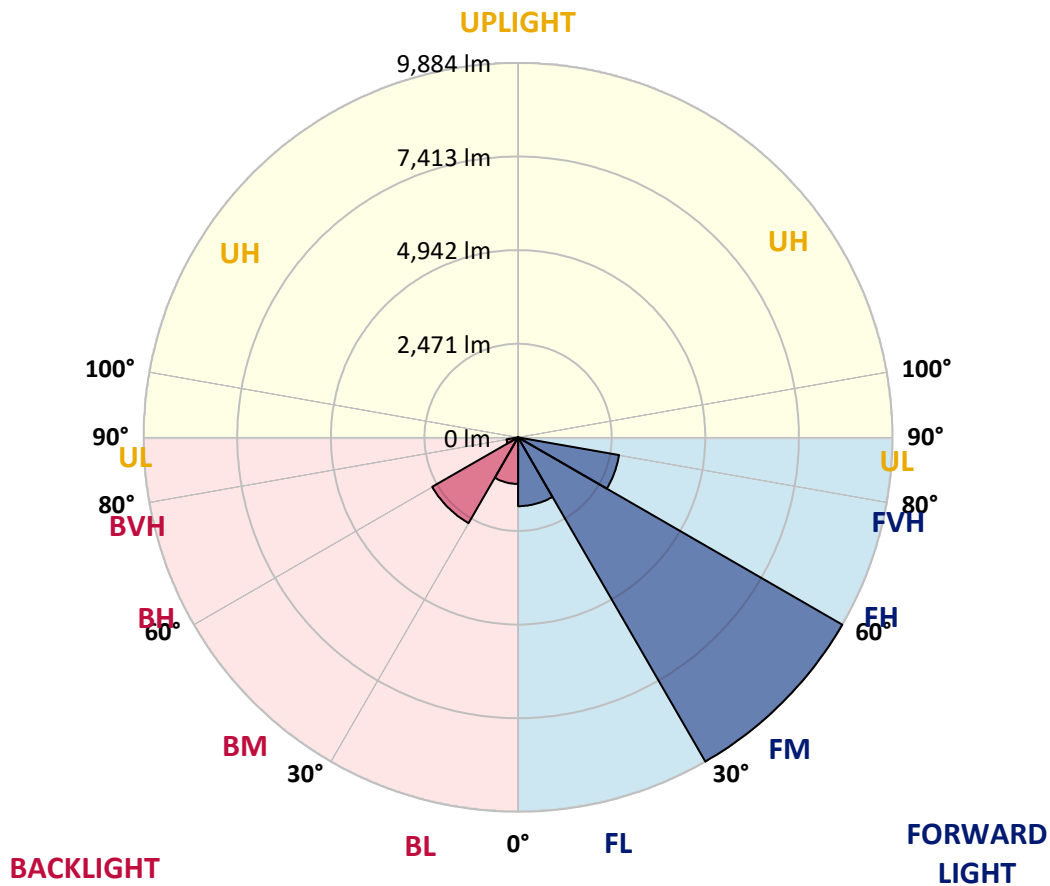
CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.5	9.8			
FM (30°-60°)	9884.1	53.2			
FH (60°-80°)	2708.7	14.6			G2/5000
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	1230.3	6.6	B3/2500		
BM (30°-60°)	2615.9	14.1	B3/5000		
BH (60°-80°)	311.7	1.7	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: P638813

CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5
2.5°	3535.5	3557.9	3595.3	3675.2	3742.6	3787.5	3807.4	3802.4	3775.0	3755.0	3715.1
5°	3914.7	3914.7	3987.1	4169.2	4308.9	4396.3	4441.2	4413.7	4358.8	4271.5	4136.8
7.5°	4246.6	4259.0	4381.3	4640.8	4852.8	4977.6	5050.0	5035.0	4937.7	4770.5	4501.0
10°	4506.0	4521.0	4683.2	5000.1	5249.6	5376.8	5484.1	5494.1	5386.8	5164.7	4855.3
12.5°	4758.0	4773.0	4942.7	5247.1	5466.6	5519.0	5613.8	5651.3	5623.8	5466.6	5144.8
15°	5030.0	5064.9	5209.6	5436.7	5529.0	5466.6	5529.0	5596.4	5688.7	5673.7	5384.3
17.5°	5297.0	5321.9	5469.1	5549.0	5446.7	5284.5	5314.4	5394.3	5603.9	5808.4	5621.3
20°	5544.0	5578.9	5701.2	5596.4	5287.0	5035.0	5037.5	5142.3	5461.6	5890.8	5863.3
22.5°	5803.5	5855.9	5943.2	5648.8	5139.8	4837.9	4850.4	4945.2	5349.4	5968.1	6137.8
25°	6142.8	6192.7	6250.1	5778.5	5092.4	4740.6	4788.0	4875.3	5349.4	6100.4	6477.1
27.5°	6601.9	6636.8	6639.3	6020.5	5174.7	4755.5	4855.3	4955.1	5509.0	6364.8	6931.2
30°	7178.2	7233.1	7160.8	6397.3	5431.7	4955.1	5102.3	5227.1	5853.4	6811.4	7599.9
32.5°	7879.3	7956.7	7859.4	6956.2	5968.1	5643.8	5910.7	5983.1	6402.3	7457.7	8358.4
35°	8702.7	8767.6	8662.8	7729.6	7220.6	7280.5	7764.6	7672.2	7505.1	8253.6	9244.1
37.5°	9605.9	9665.8	9463.7	8902.3	9072.0	9331.4	10104.9	9788.0	9249.1	9279.0	10204.7
40°	10434.2	10499.1	10182.2	10177.3	10526.6	11000.6	11933.8	11497.1	10763.6	10621.4	11105.4
42.5°	11292.5	11337.4	11050.5	10855.9	11649.3	12624.9	13612.9	13024.1	11766.6	11611.9	12233.2
45°	12517.6	12612.4	12100.9	11190.2	12659.8	14493.7	15870.9	14720.7	12450.2	12325.5	13959.7
47.5°	14319.0	14388.9	13346.0	11399.8	13600.4	16821.5	18692.8	16921.3	13051.5	12767.1	16320.0
50°	15808.6	15856.0	14491.2	11629.4	14601.0	19331.5	21908.9	19531.1	13727.7	13498.1	18523.2
52.5°	16906.4	17086.0	15995.7	12100.9	15915.8	22283.2	25469.3	22622.5	14783.1	14910.3	20349.5
55°	17133.4	17377.9	17023.6	12390.4	17073.5	25289.7	28757.8	25389.5	15836.0	15980.7	20963.3
57.5°	15057.5	15252.2	15546.6	11222.7	17046.1	26667.0	30666.5	26307.7	15356.9	14331.5	18665.4
60°	11280.1	11414.8	11948.7	8577.9	15676.3	25449.4	29179.5	24745.8	13428.3	10935.7	14221.7
62.5°	6689.2	6749.1	7425.2	5556.4	13011.6	21916.4	24199.4	21352.5	10611.4	7355.4	8710.2
65°	2567.4	2542.4	3058.9	2742.0	9568.5	17457.8	17999.2	16277.6	7280.5	3370.8	3320.9
67.5°	396.7	379.2	511.5	810.9	6901.3	12098.4	11876.4	11731.7	4560.9	785.9	686.1
70°	89.8	89.8	109.8	239.5	4216.6	7108.4	7607.4	7253.1	2919.2	167.2	89.8
72.5°	42.4	42.4	52.4	102.3	1527.0	2929.2	3413.2	3360.8	948.1	54.9	32.4
75°	15.0	17.5	17.5	22.5	92.3	152.2	349.3	249.5	59.9	0.0	0.0
77.5°	5.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	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	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: P638813

CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5
2.5°	3627.8	3610.3	3545.4	3458.1	3373.3	3298.4	3221.1	3128.8	3061.4	2984.1	2959.1
5°	4032.0	3922.2	3745.0	3560.4	3390.8	3246.0	3106.3	2956.6	2846.8	2737.1	2699.6
7.5°	4373.8	4211.6	3924.7	3647.7	3415.7	3211.1	3009.0	2804.4	2644.7	2515.0	2475.1
10°	4680.7	4493.6	4109.3	3767.5	3475.6	3238.6	2994.0	2737.1	2530.0	2375.3	2337.8
12.5°	4945.2	4728.1	4266.5	3857.3	3500.5	3228.6	2991.5	2787.0	2599.8	2422.7	2375.3
15°	5167.2	4927.7	4398.7	3917.2	3463.1	3103.8	2896.7	2864.3	2849.3	2654.7	2562.4
17.5°	5384.3	5114.8	4506.0	3944.7	3358.3	2884.3	2734.6	2881.8	3039.0	2911.7	2794.4
20°	5611.3	5304.4	4615.8	3949.6	3183.7	2637.3	2612.3	2844.3	3043.9	3004.0	2894.2
22.5°	5878.3	5541.5	4753.0	3947.1	2964.1	2427.7	2522.5	2772.0	2934.2	2931.7	2844.3
25°	6265.0	5840.9	4937.7	3962.1	2724.6	2265.5	2422.7	2649.7	2782.0	2777.0	2704.6
27.5°	6679.2	6197.7	5177.2	3999.5	2520.0	2170.7	2305.4	2482.6	2597.3	2592.3	2530.0
30°	7260.6	6609.4	5406.7	4002.0	2372.8	2120.8	2175.7	2297.9	2407.7	2395.2	2347.8
32.5°	7966.7	7073.4	5598.9	3859.8	2280.5	2073.4	2040.9	2103.3	2188.1	2170.7	2158.2
35°	8820.0	7624.8	5763.5	3547.9	2138.2	1978.6	1891.2	1903.7	1963.6	1973.6	1968.6
37.5°	9793.0	8281.0	5968.1	3136.3	1946.1	1841.3	1724.1	1714.1	1749.0	1781.5	1806.4
40°	10753.6	9019.6	6245.1	2719.6	1771.5	1666.7	1554.4	1529.5	1544.4	1601.8	1654.2
42.5°	11834.0	9875.4	6544.5	2362.8	1651.7	1474.6	1367.3	1319.9	1362.3	1454.6	1517.0
45°	13390.9	11075.5	6836.4	2078.4	1601.8	1304.9	1160.2	1155.2	1202.6	1322.4	1392.2
47.5°	15576.5	12627.4	7028.5	1856.3	1599.3	1172.7	1000.5	1030.5	1085.3	1202.6	1282.4
50°	17707.3	14571.0	6816.4	1686.6	1546.9	1085.3	880.7	940.6	995.5	1097.8	1180.2
52.5°	18992.2	15616.4	5990.6	1527.0	1384.7	1045.4	763.5	868.3	878.3	970.6	1057.9
55°	18857.5	14940.3	4588.4	1280.0	1145.2	988.0	641.2	783.4	788.4	858.3	933.1
57.5°	16367.4	12827.0	3151.2	1037.9	860.8	815.9	528.9	661.2	708.6	751.0	805.9
60°	12198.2	9358.9	1404.7	843.3	546.4	551.4	451.6	499.0	571.4	621.3	668.7
62.5°	7188.2	5384.3	571.4	506.5	301.9	346.8	364.3	364.3	409.2	446.6	476.6
65°	2717.1	1883.8	232.0	254.5	157.2	162.2	214.6	264.5	299.4	331.8	371.8
67.5°	476.6	329.3	119.8	94.8	92.3	82.3	109.8	172.2	192.1	217.1	234.5
70°	79.8	67.4	49.9	47.4	42.4	44.9	72.4	122.3	134.7	142.2	149.7
72.5°	22.5	20.0	15.0	12.5	10.0	12.5	44.9	94.8	99.8	104.8	112.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	17.5	67.4	72.4	74.9	82.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	20.0	25.0	20.0
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: P638813

CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5
2.5°	2944.1	2894.2	2866.8	2851.8	2851.8	2831.9	2809.4	2801.9	2834.4	2834.4	2889.3
5°	2652.2	2612.3	2567.4	2539.9	2497.5	2505.0	2480.1	2477.6	2510.0	2525.0	2582.4
7.5°	2450.1	2400.2	2372.8	2355.3	2332.9	2322.9	2300.4	2292.9	2310.4	2335.4	2390.2
10°	2315.4	2307.9	2305.4	2317.9	2317.9	2305.4	2285.5	2273.0	2278.0	2325.4	2387.7
12.5°	2350.3	2365.3	2370.3	2390.2	2400.2	2390.2	2375.3	2380.3	2412.7	2500.0	2592.3
15°	2502.5	2490.0	2485.1	2495.0	2502.5	2492.5	2487.6	2525.0	2637.3	2762.0	2866.8
17.5°	2664.7	2584.9	2549.9	2549.9	2554.9	2549.9	2554.9	2627.3	2809.4	2934.2	3011.5
20°	2747.0	2599.8	2544.9	2532.5	2542.4	2544.9	2562.4	2644.7	2844.3	2931.7	2949.1
22.5°	2722.1	2537.5	2475.1	2465.1	2475.1	2485.1	2502.5	2572.4	2759.5	2804.4	2796.9
25°	2597.3	2415.2	2365.3	2365.3	2387.7	2385.3	2392.7	2442.6	2597.3	2624.8	2612.3
27.5°	2440.1	2268.0	2225.6	2250.5	2270.5	2265.5	2268.0	2310.4	2425.2	2432.7	2420.2
30°	2280.5	2130.8	2090.8	2120.8	2148.2	2143.2	2145.7	2188.1	2260.5	2253.0	2235.6
32.5°	2118.3	2008.5	1978.6	1996.0	2038.4	2033.5	2043.4	2088.3	2115.8	2083.4	2063.4
35°	1968.6	1911.2	1888.7	1898.7	1931.2	1938.6	1956.1	1986.0	1986.0	1946.1	1911.2
37.5°	1828.9	1821.4	1806.4	1793.9	1823.9	1846.3	1871.3	1906.2	1856.3	1798.9	1766.5
40°	1699.1	1731.6	1711.6	1679.2	1696.6	1729.1	1779.0	1806.4	1746.5	1689.1	1634.2
42.5°	1579.4	1634.2	1626.8	1586.8	1601.8	1631.8	1689.1	1711.6	1641.7	1576.9	1524.5
45°	1464.6	1541.9	1546.9	1497.0	1512.0	1541.9	1609.3	1616.8	1527.0	1457.1	1419.7
47.5°	1364.8	1449.6	1452.1	1414.7	1419.7	1462.1	1524.5	1527.0	1424.7	1359.8	1312.4
50°	1270.0	1367.3	1374.8	1342.3	1347.3	1397.2	1449.6	1439.6	1329.9	1262.5	1220.1
52.5°	1155.2	1287.4	1304.9	1289.9	1309.9	1349.8	1382.3	1347.3	1220.1	1152.7	1115.3
55°	1030.5	1202.6	1240.0	1230.1	1252.5	1284.9	1292.4	1270.0	1110.3	1042.9	1008.0
57.5°	885.7	990.5	1055.4	1035.4	1052.9	1085.3	1107.8	1090.3	970.6	918.2	888.2
60°	733.5	803.4	818.4	785.9	771.0	828.4	880.7	858.3	756.0	723.6	688.6
62.5°	536.4	616.3	626.3	583.8	566.4	628.7	673.7	651.2	538.9	504.0	476.6
65°	429.1	504.0	524.0	484.0	474.1	521.5	548.9	494.0	414.2	376.8	346.8
67.5°	281.9	341.8	394.2	391.7	371.8	386.7	366.8	321.9	264.5	244.5	224.6
70°	174.7	209.6	242.0	254.5	252.0	247.0	219.6	187.1	169.7	162.2	152.2
72.5°	134.7	169.7	194.6	202.1	204.6	197.1	174.7	144.7	127.2	117.3	109.8
75°	99.8	127.2	147.2	157.2	162.2	157.2	134.7	114.8	97.3	89.8	82.3
77.5°	34.9	42.4	52.4	57.4	54.9	52.4	47.4	47.4	37.4	34.9	29.9
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: P638813

CATALOG NUMBER: GWS-SA4F-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5	3263.5
2.5°	2951.6	2996.5	3078.9	3153.7	3233.6	3315.9	3405.7	3498.0	3540.5	3535.5
5°	2669.7	2767.0	2901.7	3048.9	3213.6	3390.8	3587.9	3790.0	3877.3	3914.7
7.5°	2492.5	2629.8	2806.9	2994.0	3211.1	3463.1	3760.0	4076.9	4204.1	4246.6
10°	2515.0	2674.7	2821.9	3004.0	3236.1	3562.9	3932.2	4308.9	4458.6	4506.0
12.5°	2697.1	2732.1	2772.0	2921.7	3213.6	3637.8	4089.4	4538.5	4710.6	4758.0
15°	2861.8	2699.6	2624.8	2762.0	3133.8	3690.2	4249.0	4785.5	4975.1	5030.0
17.5°	2869.3	2624.8	2457.6	2564.9	3004.0	3712.6	4406.2	5037.5	5244.6	5297.0
20°	2777.0	2542.4	2327.9	2330.4	2826.9	3707.6	4536.0	5264.5	5496.6	5544.0
22.5°	2642.2	2445.1	2223.1	2145.7	2637.3	3697.6	4678.2	5506.5	5758.5	5803.5
25°	2492.5	2320.4	2123.3	2006.0	2447.6	3707.6	4877.8	5823.4	6100.4	6142.8
27.5°	2330.4	2183.2	2045.9	1951.1	2287.9	3745.0	5117.3	6227.6	6557.0	6601.9
30°	2160.7	2050.9	1996.0	1938.6	2188.1	3755.0	5376.8	6699.2	7115.8	7178.2
32.5°	1993.5	1933.7	1936.1	1946.1	2093.3	3685.2	5613.8	7223.1	7779.5	7879.3
35°	1838.8	1821.4	1871.3	1921.2	1956.1	3505.5	5820.9	7841.9	8600.4	8702.7
37.5°	1706.6	1721.6	1784.0	1833.9	1806.4	3251.0	6095.4	8615.4	9518.6	9605.9
40°	1579.4	1616.8	1689.1	1711.6	1691.6	2954.1	6424.7	9361.4	10314.5	10434.2
42.5°	1462.1	1489.5	1591.8	1596.8	1659.2	2652.2	6741.6	10164.8	11230.2	11292.5
45°	1367.3	1362.3	1467.1	1499.5	1701.6	2317.9	7051.0	11235.1	12427.8	12517.6
47.5°	1275.0	1270.0	1294.9	1442.1	1719.1	2008.5	7357.9	12802.0	14164.3	14319.0
50°	1187.6	1195.1	1117.8	1414.7	1624.3	1771.5	7497.6	14251.6	15743.7	15808.6
52.5°	1110.3	1082.8	948.1	1324.9	1422.2	1546.9	7100.9	14910.3	16721.7	16906.4
55°	1000.5	848.3	780.9	1075.4	1122.8	1349.8	5815.9	14528.6	16806.6	17133.4
57.5°	855.8	666.2	663.7	793.4	793.4	1252.5	3725.1	12412.8	14483.7	15057.5
60°	658.7	516.5	548.9	551.4	509.0	913.2	2090.8	8992.1	10708.7	11280.1
62.5°	469.1	394.2	414.2	329.3	291.9	456.6	1003.0	5177.2	6609.4	6689.2
65°	314.4	267.0	217.1	182.1	179.6	194.6	414.2	1871.3	2275.5	2567.4
67.5°	207.1	162.2	114.8	114.8	129.7	129.7	157.2	309.4	434.1	396.7
70°	134.7	112.3	72.4	69.9	84.8	84.8	79.8	84.8	89.8	89.8
72.5°	99.8	84.8	42.4	37.4	47.4	49.9	44.9	42.4	42.4	42.4
75°	74.9	59.9	25.0	17.5	22.5	29.9	25.0	17.5	17.5	15.0
77.5°	29.9	22.5	10.0	7.5	12.5	17.5	15.0	7.5	5.0	5.0
80°	2.5	5.0	5.0	5.0	7.5	10.0	12.5	5.0	2.5	2.5
82.5°	0.0	2.5	2.5	2.5	5.0	7.5	10.0	5.0	2.5	2.5
85°	0.0	0.0	0.0	0.0	5.0	7.5	5.0	2.5	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.5	7.5	5.0	2.5	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)