

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: P641284

Luminaire Tested: GWS-SA5F-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641284
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-SA5F-750-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22893.8 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

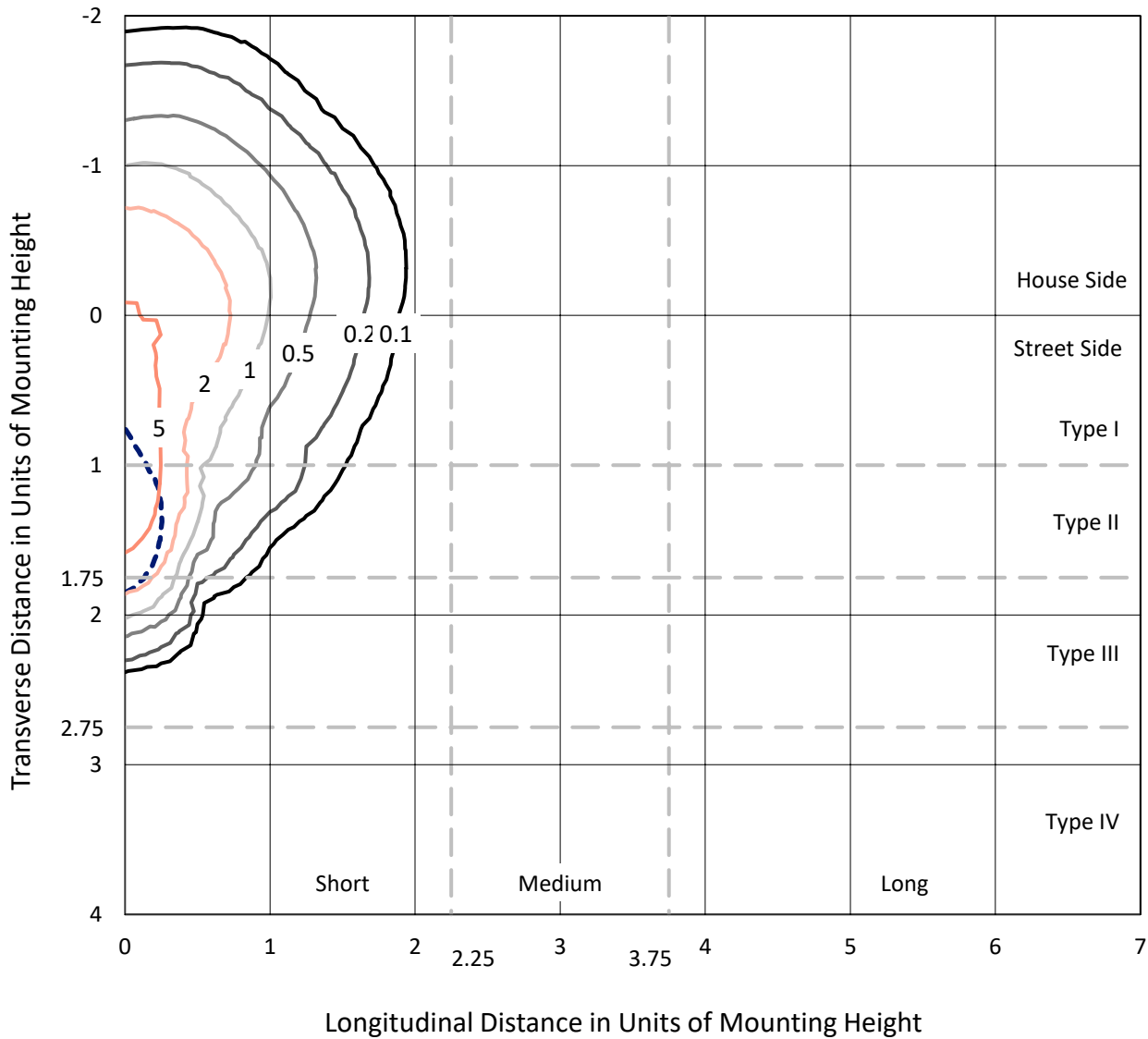
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

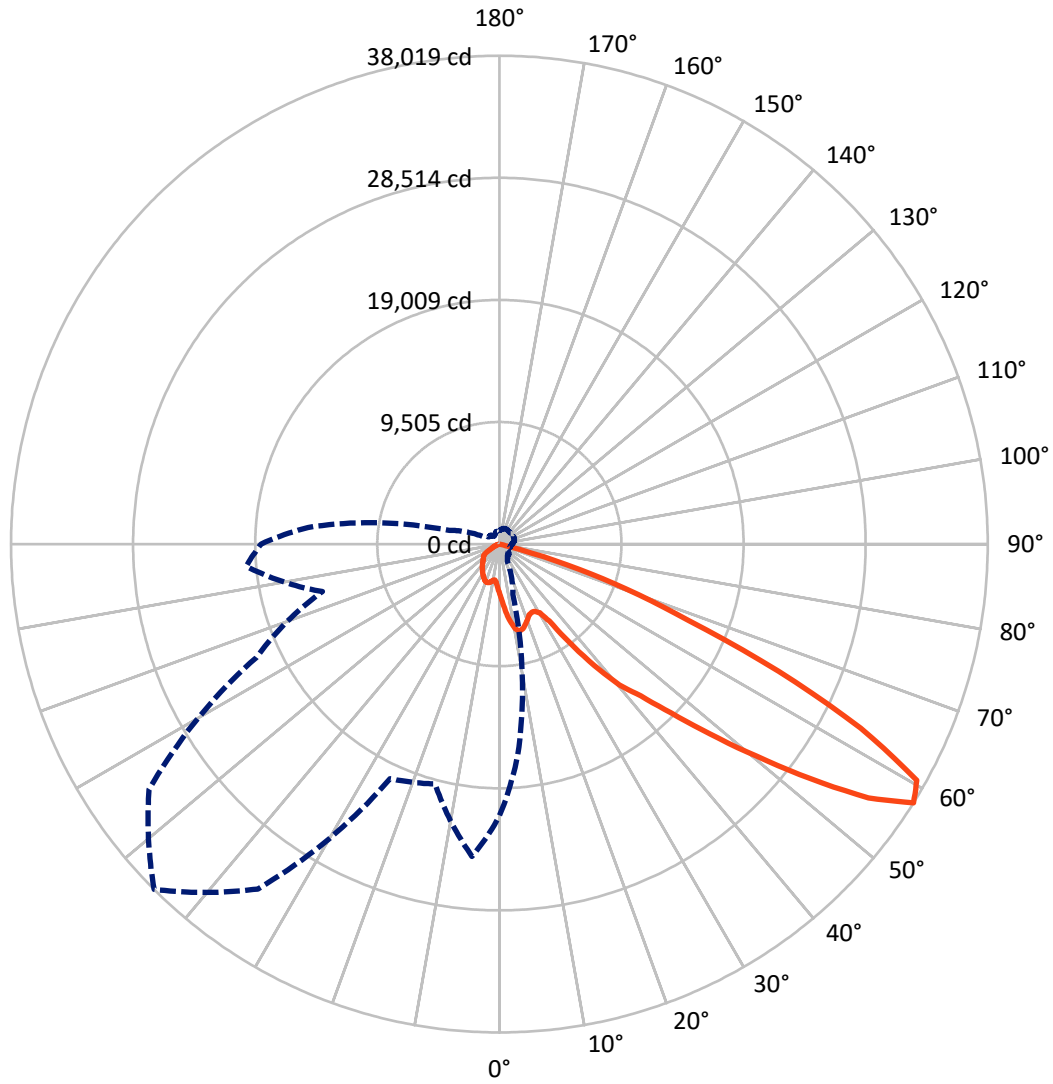
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4932.1	0.0	4932.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17961.7	0.0	17961.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	22893.8	0.0	22893.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	1.7
10°-20°	1265.1	5.5
20°-30°	2053.2	9.0
30°-40°	3151.1	13.8
40°-50°	5032.6	22.0
50°-60°	7046.5	30.8
60°-70°	3612.9	15.8
70°-80°	347.8	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°	22893.8	100.0
0°-180°	22893.8	100.0

Coefficient of Utilization



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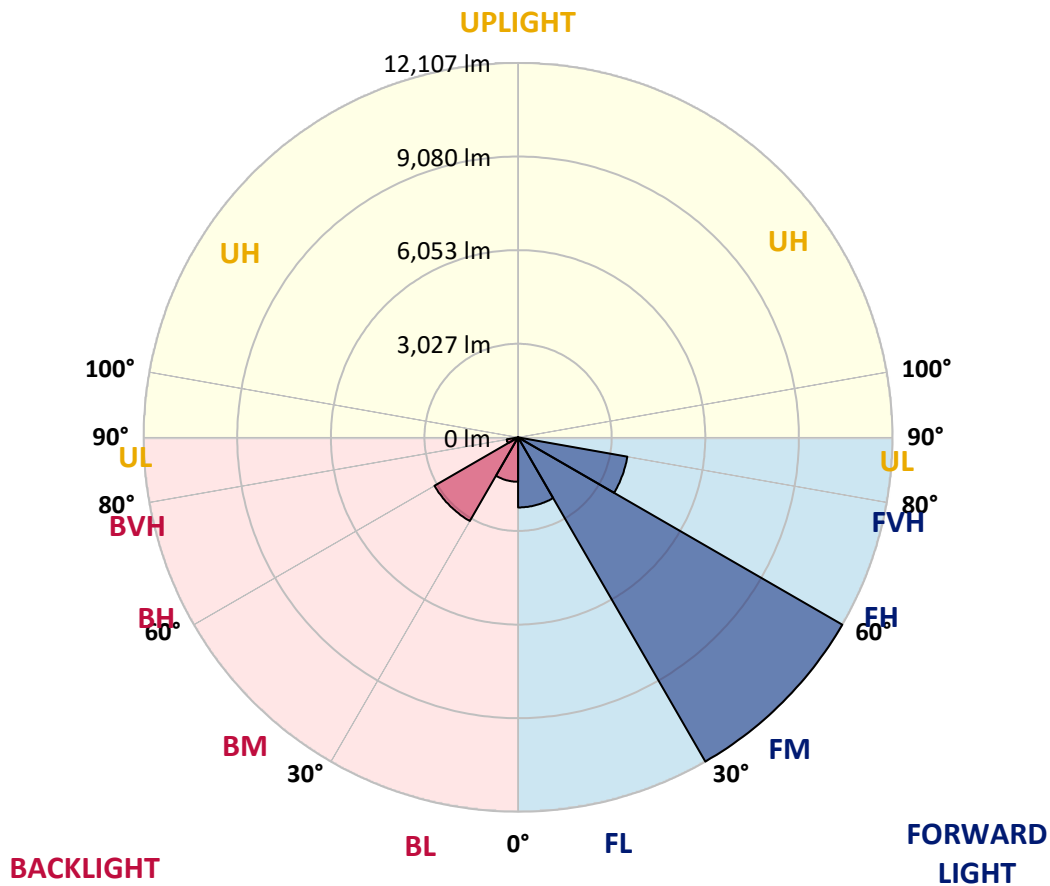
CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2266.6	9.9			
FM (30°-60°)	12106.8	52.9			
FH (60°-80°)	3588.3	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1436.1	6.3	B3/2500		
BM (30°-60°)	3123.4	13.6	B3/5000		
BH (60°-80°)	372.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0
2.5°	4321.5	4312.4	4281.7	4177.7	4113.4	4012.4	3939.0	3844.1	3740.0	3675.8	3611.5
5°	4780.6	4756.1	4673.5	4434.8	4251.1	4052.2	3893.1	3718.6	3531.9	3409.5	3296.2
7.5°	5221.3	5184.6	5074.4	4670.4	4391.9	4107.3	3880.8	3626.8	3363.6	3179.9	3039.2
10°	5652.9	5570.3	5395.8	4900.0	4523.5	4180.8	3914.5	3623.7	3314.6	3082.0	2925.9
12.5°	6007.9	5946.7	5708.0	5117.3	4633.7	4196.1	3868.6	3599.2	3391.1	3235.0	3091.2
15°	6314.0	6246.6	6020.2	5313.2	4728.6	4134.8	3675.8	3440.1	3473.8	3535.0	3412.5
17.5°	6595.5	6525.2	6280.3	5475.4	4765.3	3984.9	3406.4	3293.2	3479.9	3709.4	3663.5
20°	6886.3	6806.7	6506.8	5607.0	4753.1	3749.2	3134.0	3167.7	3430.9	3694.1	3718.6
22.5°	7226.0	7143.4	6794.5	5775.3	4743.9	3467.6	2898.4	3057.5	3339.1	3562.5	3605.4
25°	7675.9	7578.0	7195.4	6023.2	4768.4	3210.5	2730.0	2950.4	3183.0	3385.0	3409.5
27.5°	8269.7	8144.2	7657.6	6329.3	4820.4	3008.5	2656.6	2803.5	2984.1	3164.6	3186.1
30°	9044.0	8884.9	8187.0	6595.5	4795.9	2867.8	2607.6	2656.6	2763.7	2910.6	2913.7
32.5°	9949.9	9732.6	8780.8	6825.1	4584.7	2763.7	2540.3	2506.6	2531.1	2644.3	2665.8
35°	11015.0	10733.5	9435.8	7042.4	4199.1	2561.7	2417.9	2304.6	2295.4	2350.5	2402.6
37.5°	12236.2	11899.5	10262.1	7320.9	3743.1	2350.5	2237.3	2124.0	2075.1	2102.6	2182.2
40°	13362.5	12989.1	11125.2	7657.6	3277.9	2160.8	2026.1	1909.8	1851.7	1860.8	1958.8
42.5°	14684.7	14299.0	12181.1	8098.3	2892.2	2032.2	1805.7	1686.4	1609.9	1652.7	1766.0
45°	16692.4	16254.7	13720.6	8480.9	2586.2	2001.6	1612.9	1444.6	1407.9	1481.3	1616.0
47.5°	19434.7	18899.1	15835.4	8713.5	2326.0	2029.2	1478.3	1248.7	1257.9	1340.5	1475.2
50°	22155.5	21577.1	18280.8	8407.4	2111.8	1974.1	1410.9	1095.7	1153.8	1227.3	1349.7
52.5°	24025.5	23272.6	19471.4	7522.9	1915.9	1766.0	1404.8	951.8	1062.0	1086.5	1190.6
55°	24099.0	23171.6	18862.3	5931.4	1649.7	1490.5	1340.5	832.5	961.0	970.2	1059.0
57.5°	21124.1	20285.5	16484.3	4073.6	1466.0	1092.6	1068.1	728.4	789.6	866.1	921.2
60°	16071.1	15358.0	12328.0	1867.0	1114.1	694.8	731.5	627.4	590.7	703.9	759.0
62.5°	9842.8	9386.8	7394.4	826.4	710.1	370.3	443.8	498.9	443.8	486.6	532.5
65°	3908.4	3706.4	2806.6	352.0	290.8	186.7	202.0	290.8	312.2	342.8	385.6
67.5°	679.4	642.7	471.3	156.1	119.4	113.2	97.9	134.7	189.8	211.2	244.8
70°	88.8	85.7	76.5	64.3	61.2	55.1	42.8	85.7	128.5	134.7	156.1
72.5°	21.4	18.4	18.4	15.3	18.4	6.1	6.1	45.9	91.8	94.9	110.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	58.2	64.3	76.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0
2.5°	3559.5	3498.2	3476.8	3446.2	3406.4	3418.7	3363.6	3345.2	3372.8	3409.5	3400.3
5°	3235.0	3167.7	3121.8	3051.4	3039.2	3011.6	2993.2	2968.8	2999.4	3042.2	3051.4
7.5°	2977.9	2919.8	2873.9	2852.5	2837.2	2824.9	2788.2	2769.8	2769.8	2788.2	2803.5
10°	2867.8	2824.9	2815.7	2821.9	2846.3	2843.3	2809.6	2785.1	2754.5	2739.2	2757.6
12.5°	3020.8	2950.4	2938.2	2941.2	2971.8	2968.8	2932.0	2901.4	2895.3	2901.4	2959.6
15°	3280.9	3173.8	3094.2	3078.9	3094.2	3088.1	3060.6	3042.2	3051.4	3140.2	3238.1
17.5°	3513.5	3348.3	3204.4	3149.3	3146.3	3137.1	3109.5	3103.4	3149.3	3314.6	3458.5
20°	3580.9	3418.7	3213.6	3143.2	3127.9	3118.7	3088.1	3097.3	3155.5	3354.4	3476.8
22.5°	3492.1	3336.0	3121.8	3051.4	3039.2	3036.1	3005.5	3017.7	3066.7	3241.2	3342.2
25°	3323.8	3192.2	2968.8	2907.5	2907.5	2901.4	2873.9	2880.0	2910.6	3063.6	3161.6
27.5°	3118.7	2993.2	2806.6	2745.3	2754.5	2763.7	2730.0	2720.9	2745.3	2889.2	2947.3
30°	2883.1	2794.3	2647.4	2592.3	2589.2	2626.0	2580.1	2567.8	2601.5	2714.7	2727.0
32.5°	2653.5	2610.7	2506.6	2463.8	2466.8	2472.9	2448.5	2448.5	2479.1	2540.3	2537.2
35°	2430.1	2402.6	2384.2	2353.6	2350.5	2338.3	2338.3	2344.4	2378.1	2399.5	2359.7
37.5°	2215.9	2243.4	2264.8	2234.2	2209.7	2209.7	2209.7	2237.3	2267.9	2258.7	2191.4
40°	2026.1	2084.3	2151.6	2117.9	2059.8	2056.7	2069.0	2114.9	2160.8	2105.7	2044.5
42.5°	1863.9	1937.3	2032.2	2013.9	1949.6	1940.4	1949.6	2007.7	2044.5	1974.1	1906.7
45°	1704.7	1796.6	1909.8	1909.8	1839.4	1830.2	1833.3	1909.8	1931.2	1848.6	1762.9
47.5°	1570.1	1671.1	1790.4	1790.4	1732.3	1713.9	1729.2	1808.8	1824.1	1707.8	1628.2
50°	1441.5	1551.7	1683.3	1674.1	1634.3	1619.0	1646.6	1732.3	1713.9	1585.4	1502.7
52.5°	1279.3	1395.6	1576.2	1585.4	1564.0	1567.0	1600.7	1655.8	1603.7	1447.7	1377.3
55°	1132.4	1251.8	1432.4	1481.3	1481.3	1478.3	1493.6	1536.4	1493.6	1306.9	1221.2
57.5°	973.3	1074.3	1224.2	1236.5	1245.7	1212.0	1233.4	1291.6	1270.1	1111.0	1062.0
60°	798.8	884.5	970.2	979.4	939.6	869.2	909.0	976.3	991.6	872.3	817.2
62.5°	566.2	648.8	749.8	749.8	710.1	639.7	691.7	749.8	728.4	606.0	572.3
65°	422.4	498.9	575.4	609.1	575.4	526.4	566.2	609.1	575.4	474.4	425.4
67.5°	272.4	324.4	370.3	397.9	404.0	397.9	416.2	404.0	364.2	296.9	269.3
70°	165.3	192.8	217.3	241.8	260.1	269.3	278.5	251.0	211.2	174.5	165.3
72.5°	119.4	143.8	165.3	183.6	205.1	211.2	211.2	192.8	156.1	122.4	113.2
75°	82.6	104.1	122.4	134.7	153.0	159.2	159.2	143.8	116.3	88.8	79.6
77.5°	3.1	21.4	21.4	18.4	24.5	30.6	30.6	36.7	33.7	24.5	21.4
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



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CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0
2.5°	3418.7	3528.8	3559.5	3672.7	3773.7	3874.7	3997.1	4070.6	4180.8	4257.3	4300.1
5°	3082.0	3173.8	3284.0	3452.3	3626.8	3819.6	4052.2	4254.2	4508.2	4694.9	4756.1
7.5°	2837.2	2956.5	3085.1	3296.2	3535.0	3792.1	4119.5	4450.1	4838.8	5092.8	5255.0
10°	2791.2	2913.7	3085.1	3293.2	3544.2	3838.0	4238.9	4667.4	5154.0	5463.1	5646.8
12.5°	3011.6	3143.2	3216.7	3311.5	3501.3	3828.8	4343.0	4887.7	5460.1	5796.7	5992.6
15°	3336.0	3452.3	3333.0	3213.6	3336.0	3730.8	4401.1	5071.4	5729.4	6118.1	6320.1
17.5°	3559.5	3568.6	3308.5	3054.5	3088.1	3553.3	4422.5	5255.0	6017.1	6424.2	6635.3
20°	3538.0	3464.6	3201.4	2919.8	2815.7	3323.8	4398.1	5417.2	6307.9	6733.3	6941.4
22.5°	3372.8	3287.1	3063.6	2788.2	2586.2	3051.4	4355.2	5564.1	6574.1	7057.7	7253.6
25°	3173.8	3082.0	2898.4	2656.6	2439.3	2788.2	4321.5	5766.1	6910.8	7480.1	7633.1
27.5°	2941.2	2861.6	2705.6	2531.1	2378.1	2589.2	4312.4	6032.4	7317.8	7994.2	8101.4
30°	2714.7	2641.3	2518.9	2417.9	2353.6	2472.9	4281.7	6317.0	7804.5	8584.9	8701.2
32.5°	2497.4	2424.0	2347.5	2332.2	2335.2	2430.1	4177.7	6598.6	8382.9	9441.9	9527.6
35°	2310.7	2225.0	2194.4	2231.2	2298.5	2356.6	3883.9	6831.2	9004.2	10375.4	10445.8
37.5°	2133.2	2047.5	2044.5	2133.2	2206.7	2243.4	3538.0	7060.8	9842.8	11324.1	11412.9
40°	1971.0	1885.3	1915.9	2023.0	2081.2	2099.6	3118.7	7409.7	10730.4	12325.0	12276.0
42.5°	1833.3	1744.5	1762.9	1900.6	1952.6	2001.6	2733.1	7700.4	11584.3	13273.7	13258.4
45°	1698.6	1631.3	1619.0	1769.0	1814.9	2010.8	2451.5	7923.8	12683.0	14482.7	14507.1
47.5°	1567.0	1515.0	1518.0	1582.3	1695.6	2056.7	2212.8	8070.7	14277.6	16398.6	15973.2
50°	1447.7	1407.9	1441.5	1368.1	1619.0	1998.6	2007.7	8040.1	16058.9	18234.9	17381.0
52.5°	1316.0	1306.9	1322.2	1144.7	1496.6	1762.9	1814.9	7633.1	16894.4	19489.8	19003.1
55°	1181.4	1178.3	1055.9	915.1	1251.8	1407.9	1554.8	6369.1	16866.9	20157.0	20747.7
57.5°	1022.2	997.7	801.9	746.8	973.3	979.4	1417.0	4171.6	14947.9	18559.4	19783.6
60°	774.3	756.0	587.6	606.0	679.4	627.4	1129.4	2078.1	11171.1	14458.2	15838.5
62.5°	535.6	511.1	437.7	468.3	437.7	358.1	691.7	1028.4	6766.9	9129.7	10381.5
65°	391.8	364.2	299.9	257.1	205.1	205.1	263.2	394.8	2619.9	3880.8	4679.6
67.5°	241.8	229.5	177.5	128.5	125.5	134.7	137.7	195.9	422.4	673.3	823.3
70°	156.1	143.8	119.4	82.6	76.5	79.6	82.6	91.8	107.1	116.3	140.8
72.5°	107.1	101.0	85.7	45.9	36.7	39.8	42.8	42.8	52.0	49.0	58.2
75°	76.5	70.4	61.2	21.4	12.2	15.3	18.4	15.3	18.4	12.2	15.3
77.5°	21.4	21.4	15.3	3.1	0.0	3.1	6.1	6.1	3.1	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	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: P641284

CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0	3890.0
2.5°	4410.3	4480.7	4508.2	4468.4	4502.1	4447.0	4425.6	4343.0	4336.8	4321.5
5°	5004.0	5163.2	5258.1	5316.2	5248.9	5175.4	5065.3	4875.5	4817.4	4780.6
7.5°	5588.6	5836.5	5998.7	6075.2	6056.9	5906.9	5708.0	5389.7	5276.4	5221.3
10°	6096.7	6399.7	6595.5	6690.4	6650.6	6519.0	6234.4	5836.5	5686.6	5652.9
12.5°	6451.7	6730.2	6864.9	6947.5	6950.6	6898.5	6629.2	6228.3	6050.8	6007.9
15°	6675.1	6794.5	6797.5	6846.5	6932.2	7048.5	6923.0	6568.0	6378.2	6314.0
17.5°	6815.9	6684.3	6549.6	6561.9	6702.7	7011.8	7140.3	6867.9	6665.9	6595.5
20°	6916.9	6500.7	6249.7	6252.8	6396.6	6864.9	7290.3	7158.7	6950.6	6886.3
22.5°	6981.2	6338.5	5980.4	5971.2	6124.2	6690.4	7428.0	7504.5	7299.5	7226.0
25°	7112.8	6261.9	5818.2	5870.2	6004.9	6635.3	7614.7	7963.6	7773.9	7675.9
27.5°	7348.5	6338.5	5802.9	5922.2	6075.2	6797.5	7939.1	8575.7	8379.9	8269.7
30°	7755.5	6626.2	6038.5	6203.8	6387.4	7223.0	8483.9	9429.6	9148.1	9044.0
32.5°	8410.5	7223.0	6766.9	7122.0	7299.5	7920.8	9301.1	10387.6	10158.1	9949.9
35°	9313.3	8584.9	8532.9	9359.3	9316.4	9242.9	10305.0	11562.9	11217.0	11015.0
37.5°	10555.9	10776.3	11161.9	11982.2	11954.6	11394.5	11624.1	12673.9	12496.3	12236.2
40°	12107.7	12575.9	13230.9	14406.1	14038.9	13334.9	13243.1	13812.4	13668.5	13362.5
42.5°	13022.8	13830.8	15079.5	16135.4	15841.6	14611.2	14507.1	15333.5	15018.3	14684.7
45°	13448.2	14853.0	17301.5	18730.7	17840.1	15459.0	15419.2	17316.8	17139.2	16692.4
47.5°	13644.1	15884.4	19902.9	22066.8	20401.8	16202.7	16058.9	20193.7	19961.1	19434.7
50°	13861.4	17307.6	23037.0	25932.3	23496.1	17044.4	17148.4	22874.8	22776.8	22155.5
52.5°	14338.8	18813.4	26896.4	30351.8	27248.3	18363.5	19018.4	25402.8	24741.7	24025.5
55°	15055.0	20453.8	30911.8	34866.1	31077.1	20135.5	21041.5	26746.4	24891.7	24099.0
57.5°	14262.3	20864.0	33289.9	38018.5	32775.7	20141.7	19330.6	24417.3	21892.3	21124.1
60°	11318.0	19410.2	32374.8	37336.0	31328.1	17886.0	14801.0	19064.3	16585.3	16071.1
62.5°	7651.4	16279.2	28500.1	31576.0	26813.7	14069.5	9619.4	12398.4	10268.2	9842.8
65°	4193.0	12144.4	23027.8	23887.8	20986.4	9827.5	4949.0	5380.5	4098.1	3908.4
67.5°	1156.9	8453.3	16943.4	15847.7	14724.4	6399.7	1279.3	961.0	685.6	679.4
70°	290.8	5591.7	10151.9	10464.1	9028.7	4098.1	244.8	116.3	91.8	88.8
72.5°	122.4	2405.6	4817.4	5536.6	4621.5	1897.6	88.8	33.7	27.5	21.4
75°	15.3	192.8	410.1	621.3	425.4	205.1	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)