

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: P639309

Luminaire Tested: GWS-SA5B-750-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639309
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-SA5B-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: 14210.4 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

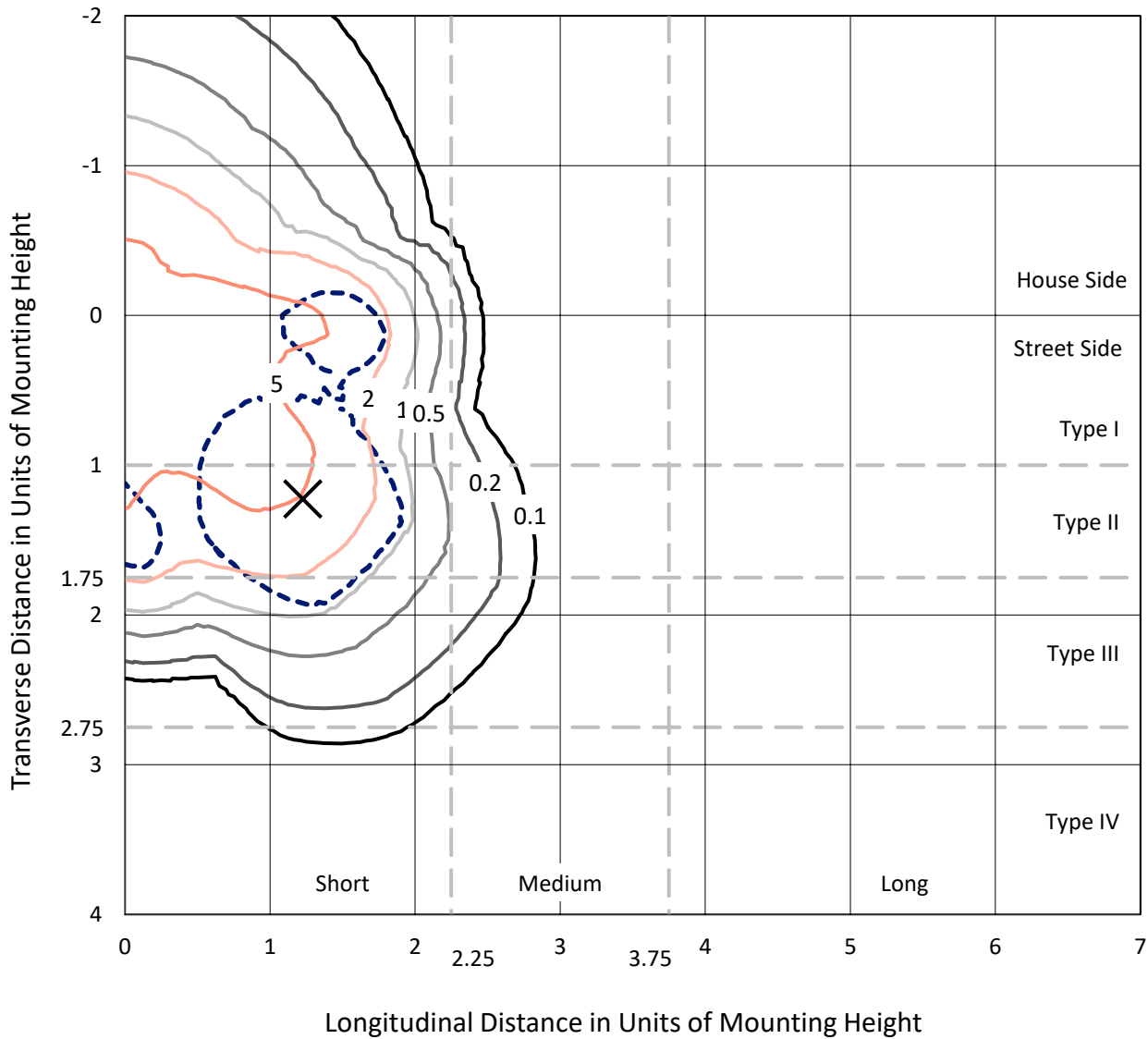
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

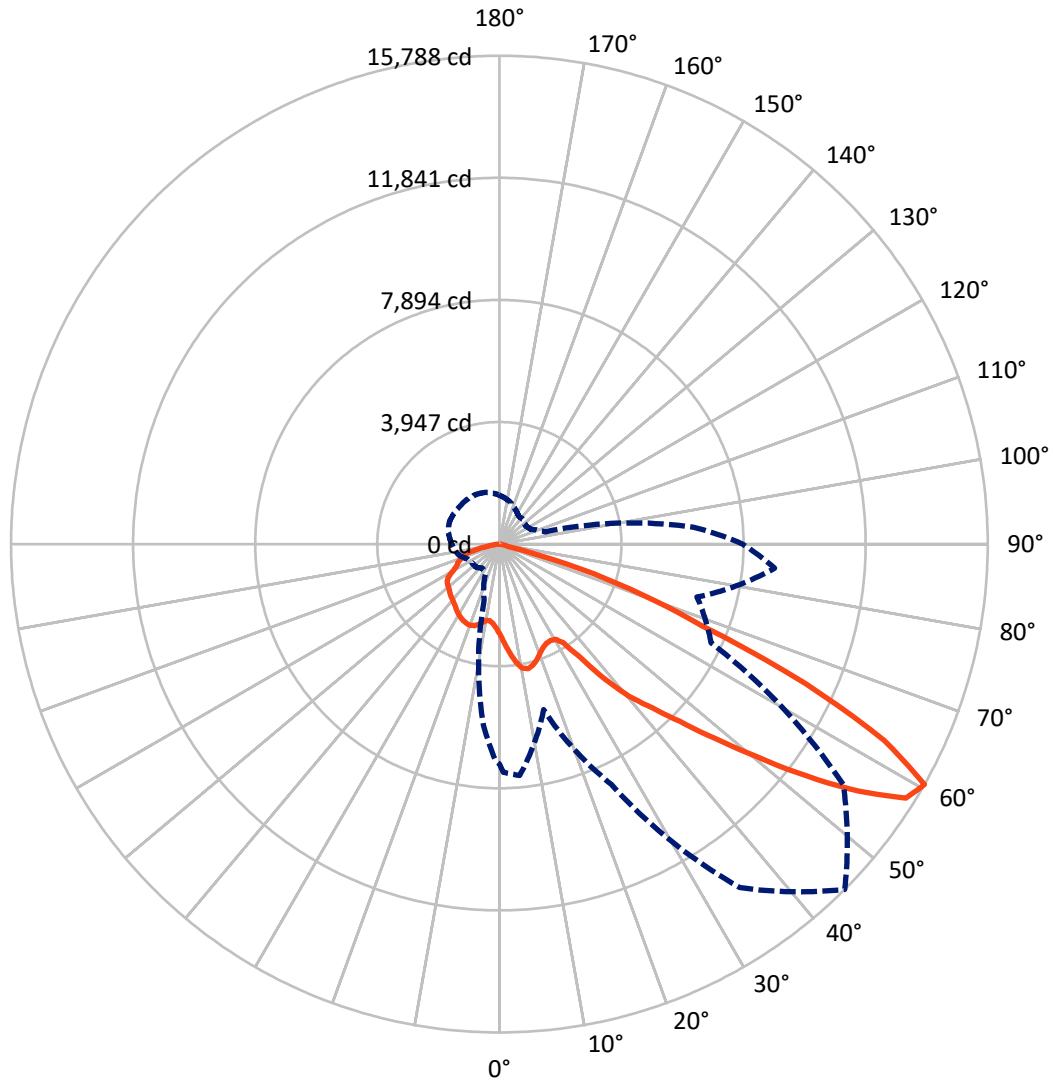
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	4981.3	0.0	4981.3
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	9229.1	0.0	9229.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	14210.4	0.0	14210.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	2.0
10°-20°	900.0	6.3
20°-30°	1462.0	10.3
30°-40°	2061.8	14.5
40°-50°	2849.4	20.1
50°-60°	3668.0	25.8
60°-70°	2324.1	16.4
70°-80°	596.4	4.2
80°-90°	63.8	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°	14210.4	100.0
0°-180°	14210.4	100.0

Coefficient of Utilization



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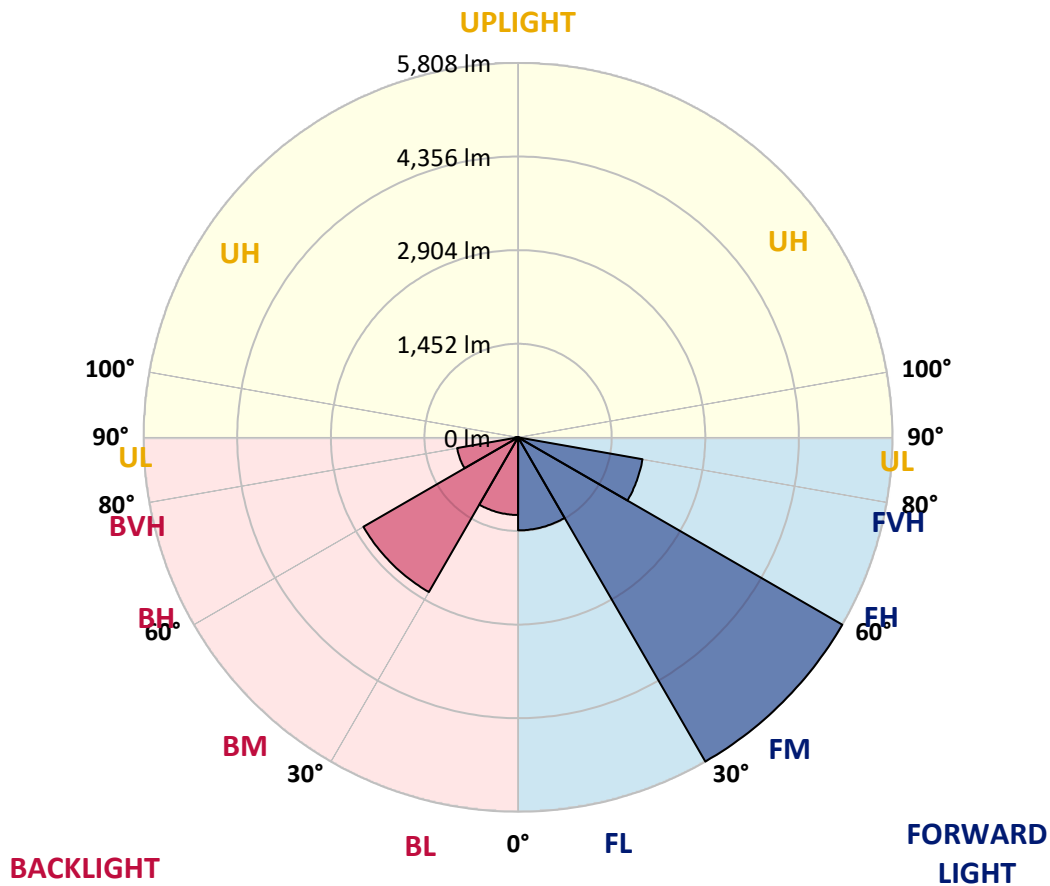
CATALOG NUMBER: GWS-SA5B-750-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.9	10.2			
FM (30°-60°)	5808.4	40.9			
FH (60°-80°)	1960.5	13.8			G2/5000
FVH (80°-90°)	17.3	0.1			G1/100
BL (0°-30°)	1204.0	8.5	B3/2500		
BM (30°-60°)	2770.9	19.5	B3/5000		
BH (60°-80°)	959.9	6.8	B2/1000		G2/1000
BVH (80°-90°)	46.5	0.3			G1/100
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°	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2
2.5°	3053.3	3074.2	3087.2	3111.9	3156.2	3180.9	3208.3	3178.3	3186.2	3182.3	3134.1
5°	3234.3	3259.1	3292.9	3365.8	3447.9	3493.4	3536.4	3529.9	3489.5	3421.8	3373.7
7.5°	3403.6	3432.2	3490.8	3609.3	3730.4	3800.7	3852.8	3819.0	3785.1	3678.3	3557.2
10°	3536.4	3553.3	3632.8	3791.6	3932.2	4011.7	4075.5	4067.7	4020.8	3901.0	3738.2
12.5°	3661.4	3673.1	3759.1	3917.9	4044.2	4079.4	4131.5	4148.4	4132.8	4042.9	3882.8
15°	3795.5	3817.7	3897.1	4018.2	4075.5	4039.0	4057.2	4104.1	4148.4	4148.4	4001.2
17.5°	3920.5	3940.1	4020.8	4072.9	4018.2	3921.8	3927.0	3986.9	4092.4	4203.1	4109.3
20°	4031.2	4049.4	4128.9	4079.4	3906.2	3765.6	3761.7	3834.6	4005.2	4238.2	4225.2
22.5°	4152.3	4178.3	4244.7	4084.6	3802.0	3623.7	3622.3	3697.9	3928.3	4273.4	4358.0
25°	4324.2	4364.5	4398.4	4130.2	3746.0	3531.2	3548.1	3619.7	3903.6	4330.7	4554.6
27.5°	4579.4	4611.9	4609.3	4225.2	3743.4	3493.4	3528.6	3611.9	3947.9	4432.2	4761.7
30°	4855.4	4872.3	4845.0	4358.0	3803.3	3516.9	3569.0	3667.9	4059.8	4600.2	5066.3
32.5°	5161.4	5182.2	5130.1	4557.2	3942.7	3690.1	3804.6	3852.8	4217.4	4842.4	5389.3
35°	5512.9	5553.3	5445.2	4820.2	4352.8	4321.6	4488.2	4425.7	4552.0	5128.8	5734.3
37.5°	5882.7	5884.0	5729.1	5209.6	5157.5	5210.9	5544.2	5348.9	5261.6	5447.8	6085.9
40°	6196.5	6188.7	5950.4	5734.3	5858.0	6070.2	6472.6	6173.1	5943.9	5876.2	6377.5
42.5°	6510.3	6481.7	6240.8	6067.6	6341.1	6777.3	7231.7	6864.5	6381.4	6265.5	6665.3
45°	6911.4	6902.3	6611.9	6200.4	6777.3	7568.9	8171.8	7576.7	6640.5	6492.1	7144.4
47.5°	7558.5	7514.2	6973.9	6190.0	7186.1	8623.6	9385.3	8473.8	6821.5	6497.3	7917.9
50°	8191.3	8136.6	7406.2	6188.7	7608.0	9717.3	10817.6	9563.7	7006.4	6528.6	8704.3
52.5°	8830.6	8830.6	8115.8	6335.9	8050.7	10938.7	12472.5	10921.7	7321.5	6937.4	9671.7
55°	9210.8	9312.4	8913.9	6584.5	8568.9	12376.1	14109.2	12387.9	7808.5	7675.7	10565.0
57.5°	8727.8	8917.9	8860.6	6411.4	8874.9	13432.1	15497.2	13499.8	8049.4	7762.9	10430.9
60°	7111.9	7376.2	7507.7	5536.4	8572.8	13554.5	15787.6	13572.7	7552.0	6610.6	8934.8
62.5°	4727.8	4945.2	5145.8	3955.7	7421.8	12193.9	13963.4	12197.8	6307.2	4933.5	6190.0
65°	2319.0	2480.4	2696.6	2338.5	5798.1	10188.7	10886.6	9856.6	4562.4	2761.7	3157.5
67.5°	606.8	652.3	682.3	907.5	4153.6	7320.2	7100.2	7209.5	2931.0	902.3	825.5
70°	315.1	317.7	316.4	375.0	2807.3	4652.3	4893.2	4527.3	2045.5	377.6	325.5
72.5°	225.3	226.6	222.7	252.6	1355.5	2665.3	2761.7	2731.7	1071.6	224.0	222.7
75°	147.1	148.4	145.8	148.4	204.4	303.4	279.9	294.3	178.4	141.9	141.9
77.5°	87.2	88.5	87.2	89.8	87.2	87.2	80.7	80.7	76.8	76.8	78.1
80°	58.6	58.6	57.3	59.9	54.7	54.7	52.1	50.8	46.9	45.6	45.6
82.5°	35.2	36.5	35.2	35.2	32.6	32.6	29.9	28.6	24.7	24.7	23.4
85°	18.2	18.2	16.9	16.9	14.3	13.0	10.4	10.4	7.8	6.5	6.5
87.5°	2.6	2.6	1.3	1.3	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°	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2
2.5°	3121.1	3095.0	3055.9	3018.2	2983.0	2946.6	2904.9	2861.9	2825.5	2787.7	2768.2
5°	3309.9	3256.5	3154.9	3065.1	2984.3	2917.9	2846.3	2785.1	2727.8	2681.0	2657.5
7.5°	3480.4	3397.1	3243.4	3101.5	2992.1	2901.0	2802.0	2710.9	2634.1	2576.8	2554.7
10°	3638.0	3539.0	3337.2	3157.5	3029.9	2928.3	2807.3	2683.6	2582.0	2506.5	2488.2
12.5°	3765.6	3652.3	3411.4	3203.1	3052.0	2942.7	2835.9	2729.1	2628.9	2531.2	2515.6
15°	3878.9	3744.7	3467.4	3231.7	3044.2	2904.9	2815.1	2802.0	2802.0	2691.4	2660.1
17.5°	3976.5	3829.4	3513.0	3244.7	2994.8	2792.9	2738.2	2851.5	2979.1	2899.7	2829.4
20°	4088.5	3910.1	3550.7	3244.7	2903.6	2651.0	2645.8	2838.5	3027.3	3028.6	2954.4
22.5°	4201.8	4003.9	3595.0	3233.0	2778.6	2486.9	2583.3	2786.4	2954.4	3026.0	2975.2
25°	4385.4	4134.1	3665.3	3223.9	2632.8	2375.0	2527.3	2717.4	2859.3	2934.9	2902.3
27.5°	4618.4	4305.9	3772.1	3238.2	2488.2	2308.6	2467.4	2627.6	2756.5	2822.9	2799.4
30°	4878.8	4503.8	3886.7	3263.0	2384.1	2274.7	2395.8	2524.7	2639.3	2705.7	2695.3
32.5°	5210.9	4718.7	3985.6	3229.1	2325.5	2257.8	2320.3	2412.7	2523.4	2565.1	2574.2
35°	5608.0	4955.7	4061.1	3096.3	2272.1	2239.6	2238.3	2295.5	2373.7	2440.1	2446.6
37.5°	5973.9	5233.0	4144.5	2868.5	2175.8	2194.0	2141.9	2175.8	2252.6	2319.0	2345.0
40°	6335.9	5514.3	4260.4	2578.1	2049.5	2092.4	2031.2	2054.7	2115.9	2203.1	2244.8
42.5°	6687.4	5768.2	4382.8	2281.2	1923.2	1950.5	1904.9	1928.4	1992.2	2101.5	2148.4
45°	7070.2	6111.9	4477.8	2001.3	1813.8	1802.1	1765.6	1799.5	1895.8	2015.6	2071.6
47.5°	7794.2	6653.6	4540.3	1815.1	1755.2	1670.6	1628.9	1701.8	1811.2	1932.3	2000.0
50°	8678.3	7437.4	4522.1	1696.6	1704.4	1535.1	1520.8	1617.2	1734.4	1860.7	1934.9
52.5°	9378.8	8206.9	4315.0	1583.3	1605.4	1449.2	1407.5	1548.2	1660.1	1789.0	1865.9
55°	9913.9	8466.0	3679.6	1449.2	1444.0	1386.7	1299.5	1476.5	1585.9	1705.7	1789.0
57.5°	9477.7	7889.2	2727.8	1264.3	1233.1	1263.0	1178.4	1355.5	1494.8	1613.3	1687.5
60°	7865.8	6290.3	1519.5	1119.8	1031.2	1104.2	1091.1	1227.8	1395.8	1520.8	1584.6
62.5°	5339.8	4188.7	901.0	885.4	835.9	940.1	1009.1	1098.9	1264.3	1365.9	1425.8
65°	2661.4	2035.1	599.0	662.8	669.3	773.4	903.6	1002.6	1140.6	1244.8	1304.7
67.5°	772.1	632.8	455.7	506.5	576.8	660.1	764.3	881.5	1015.6	1139.3	1209.6
70°	333.3	337.2	362.0	421.9	490.9	576.8	681.0	795.6	908.8	1003.9	1057.3
72.5°	235.7	244.8	272.1	333.3	398.4	480.5	584.6	695.3	777.3	873.7	929.7
75°	151.0	157.6	179.7	226.6	274.7	354.2	453.1	554.7	639.3	708.3	761.7
77.5°	83.3	84.6	102.9	130.2	162.8	213.5	286.5	365.9	428.4	467.4	515.6
80°	48.2	48.2	57.3	74.2	93.7	125.0	165.4	204.4	242.2	266.9	290.4
82.5°	26.0	26.0	29.9	40.4	50.8	69.0	92.4	112.0	135.4	148.4	164.1
85°	7.8	7.8	10.4	14.3	18.2	26.0	36.5	46.9	57.3	66.4	75.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2
2.5°	2764.3	2746.1	2735.6	2722.6	2726.5	2714.8	2708.3	2712.2	2688.8	2712.2	2735.6
5°	2648.4	2622.4	2601.5	2584.6	2576.8	2561.2	2552.0	2552.0	2537.7	2561.2	2589.8
7.5°	2546.8	2526.0	2515.6	2505.2	2493.5	2479.1	2463.5	2458.3	2449.2	2473.9	2498.7
10°	2479.1	2481.7	2488.2	2502.6	2500.0	2490.9	2467.4	2454.4	2454.4	2483.0	2520.8
12.5°	2510.4	2537.7	2553.4	2579.4	2584.6	2576.8	2553.4	2542.9	2569.0	2611.9	2674.4
15°	2631.5	2649.7	2662.7	2683.6	2682.3	2675.7	2657.5	2665.3	2751.3	2834.6	2890.6
17.5°	2763.0	2742.2	2739.5	2752.6	2756.5	2748.7	2738.2	2773.4	2915.3	2993.5	3022.1
20°	2858.0	2786.4	2770.8	2776.0	2786.4	2782.5	2782.5	2839.8	2986.9	3023.4	2986.9
22.5°	2886.7	2785.1	2761.7	2763.0	2777.3	2778.6	2785.1	2845.0	2931.0	2932.3	2876.3
25°	2841.1	2743.5	2726.5	2729.1	2746.1	2744.8	2747.4	2781.2	2819.0	2803.3	2761.7
27.5°	2755.2	2670.5	2665.3	2679.7	2701.8	2690.1	2682.3	2691.4	2709.6	2690.1	2653.6
30°	2657.5	2585.9	2588.5	2615.9	2639.3	2619.8	2600.2	2605.4	2606.7	2585.9	2544.2
32.5°	2554.7	2501.3	2510.4	2539.0	2566.4	2545.5	2524.7	2522.1	2497.4	2472.6	2432.3
35°	2451.8	2431.0	2442.7	2466.1	2489.6	2472.6	2459.6	2451.8	2398.4	2361.9	2328.1
37.5°	2358.0	2373.7	2394.5	2408.8	2416.6	2415.3	2407.5	2389.3	2319.0	2276.0	2231.7
40°	2274.7	2322.9	2345.0	2351.5	2363.3	2360.6	2359.3	2333.3	2240.9	2195.3	2144.5
42.5°	2199.2	2266.9	2304.7	2311.2	2317.7	2319.0	2315.1	2277.3	2171.8	2118.5	2070.3
45°	2126.3	2214.8	2263.0	2256.5	2265.6	2265.6	2269.5	2220.0	2104.1	2049.5	1998.7
47.5°	2062.5	2166.6	2210.9	2203.1	2208.3	2212.2	2216.1	2158.8	2029.9	1977.8	1925.8
50°	2003.9	2114.6	2152.3	2154.9	2154.9	2164.0	2162.7	2106.7	1967.4	1911.4	1859.4
52.5°	1941.4	2061.2	2101.5	2118.5	2123.7	2127.6	2109.3	2044.2	1903.6	1835.9	1787.7
55°	1868.5	2006.5	2042.9	2065.1	2075.5	2072.9	2048.2	1981.7	1838.5	1770.8	1716.1
57.5°	1757.8	1889.3	1941.4	1951.8	1968.7	1958.3	1929.7	1873.7	1734.4	1666.6	1610.7
60°	1636.7	1731.7	1773.4	1782.5	1769.5	1773.4	1769.5	1716.1	1595.0	1541.6	1484.4
62.5°	1477.8	1562.5	1606.7	1618.5	1596.3	1610.7	1605.4	1539.0	1418.0	1362.0	1311.2
65°	1358.1	1450.5	1502.6	1509.1	1502.6	1509.1	1490.9	1410.1	1295.6	1238.3	1186.2
67.5°	1264.3	1359.4	1414.0	1432.3	1425.8	1424.5	1395.8	1302.1	1183.6	1121.1	1054.7
70°	1102.9	1186.2	1256.5	1300.8	1300.8	1276.0	1221.3	1134.1	1039.0	985.7	933.6
72.5°	976.5	1082.0	1151.0	1196.6	1205.7	1191.4	1114.6	1022.1	912.7	859.4	804.7
75°	804.7	907.5	981.8	1041.7	1053.4	1037.7	949.2	858.1	756.5	704.4	649.7
77.5°	537.8	599.0	658.8	713.5	701.8	712.2	652.3	583.3	520.8	481.8	457.0
80°	303.4	343.7	362.0	391.9	391.9	391.9	352.9	320.3	285.2	263.0	238.3
82.5°	171.9	197.9	205.7	230.5	237.0	238.3	212.2	191.4	169.3	157.6	140.6
85°	79.4	93.7	95.1	109.4	114.6	125.0	113.3	99.0	85.9	80.7	70.3
87.5°	2.6	7.8	10.4	19.5	26.0	29.9	32.6	32.6	27.3	24.7	20.8
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: P639309

CATALOG NUMBER: GWS-SA5B-750-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2
2.5°	2764.3	2795.5	2832.0	2858.0	2904.9	2944.0	2984.3	3028.6	3061.2	3053.3
5°	2625.0	2677.0	2743.5	2804.7	2891.9	2980.4	3078.1	3178.3	3236.9	3234.3
7.5°	2546.8	2621.1	2701.8	2783.8	2886.7	3014.3	3164.0	3320.3	3399.7	3403.6
10°	2588.5	2667.9	2722.6	2791.6	2899.7	3059.9	3239.5	3427.0	3518.2	3536.4
12.5°	2720.0	2713.5	2709.6	2759.1	2889.3	3092.4	3312.5	3536.4	3639.3	3661.4
15°	2845.0	2710.9	2630.2	2664.0	2842.4	3113.2	3384.1	3656.2	3772.1	3795.5
17.5°	2868.5	2665.3	2515.6	2539.0	2768.2	3119.8	3453.1	3773.4	3898.4	3920.5
20°	2803.3	2606.7	2432.3	2399.7	2674.4	3102.8	3496.0	3871.0	4007.8	4031.2
22.5°	2721.3	2554.7	2369.8	2285.1	2559.9	3085.9	3544.2	3973.9	4131.5	4152.3
25°	2635.4	2488.2	2311.2	2182.3	2429.7	3075.5	3625.0	4109.3	4299.4	4324.2
27.5°	2544.2	2407.5	2260.4	2132.8	2309.9	3088.5	3739.5	4328.1	4544.2	4579.4
30°	2446.6	2326.8	2227.8	2115.9	2227.8	3100.2	3865.8	4552.0	4805.9	4855.4
32.5°	2345.0	2252.6	2194.0	2123.7	2177.1	3072.9	3976.5	4803.3	5118.4	5161.4
35°	2243.5	2177.1	2151.0	2138.0	2109.3	2972.6	4066.4	5057.2	5475.2	5512.9
37.5°	2148.4	2098.9	2091.1	2105.4	2005.2	2808.6	4170.5	5380.1	5825.4	5882.7
40°	2059.9	2014.3	2013.0	2010.4	1890.6	2584.6	4311.1	5708.3	6170.5	6196.5
42.5°	1977.8	1920.5	1931.0	1899.7	1796.9	2342.4	4444.0	5988.2	6492.1	6510.3
45°	1904.9	1829.4	1841.1	1802.1	1752.6	2088.5	4561.1	6318.9	6899.6	6911.4
47.5°	1834.6	1753.9	1721.3	1718.7	1744.8	1854.1	4675.7	6955.6	7537.7	7558.5
50°	1769.5	1682.3	1589.8	1647.1	1696.6	1678.4	4818.9	7637.9	8196.5	8191.3
52.5°	1707.0	1592.4	1460.9	1571.6	1571.6	1548.2	4778.6	8052.0	8740.8	8830.6
55°	1635.4	1447.9	1326.8	1445.3	1388.0	1431.0	4063.7	8187.4	9083.2	9210.8
57.5°	1493.5	1269.5	1164.0	1227.8	1141.9	1326.8	2919.2	7515.5	8501.2	8727.8
60°	1356.8	1138.0	1069.0	1057.3	945.3	1082.0	1891.9	5884.0	6997.3	7111.9
62.5°	1196.6	1024.7	966.1	876.3	760.4	787.8	1145.8	3872.3	4701.8	4727.8
65°	1075.5	928.4	816.4	709.6	622.4	571.6	677.1	1867.2	2350.2	2319.0
67.5°	923.2	795.6	688.8	612.0	540.4	476.6	450.5	554.7	627.6	606.8
70°	821.6	699.2	596.3	523.4	457.0	393.2	347.7	326.8	320.3	315.1
72.5°	708.3	601.6	494.8	424.5	362.0	303.4	261.7	237.0	230.5	225.3
75°	565.1	464.8	367.2	300.8	246.1	204.4	177.1	156.2	152.3	147.1
77.5°	373.7	298.2	218.7	178.4	145.8	123.7	105.5	92.4	89.8	87.2
80°	205.7	171.9	134.1	108.1	87.2	75.5	69.0	61.2	59.9	58.6
82.5°	122.4	102.9	76.8	61.2	50.8	45.6	41.7	37.8	36.5	35.2
85°	61.2	48.2	33.9	28.6	26.0	23.4	23.4	19.5	18.2	18.2
87.5°	15.6	13.0	7.8	6.5	6.5	6.5	5.2	3.9	3.9	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)