

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: P639305

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 14137.5 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

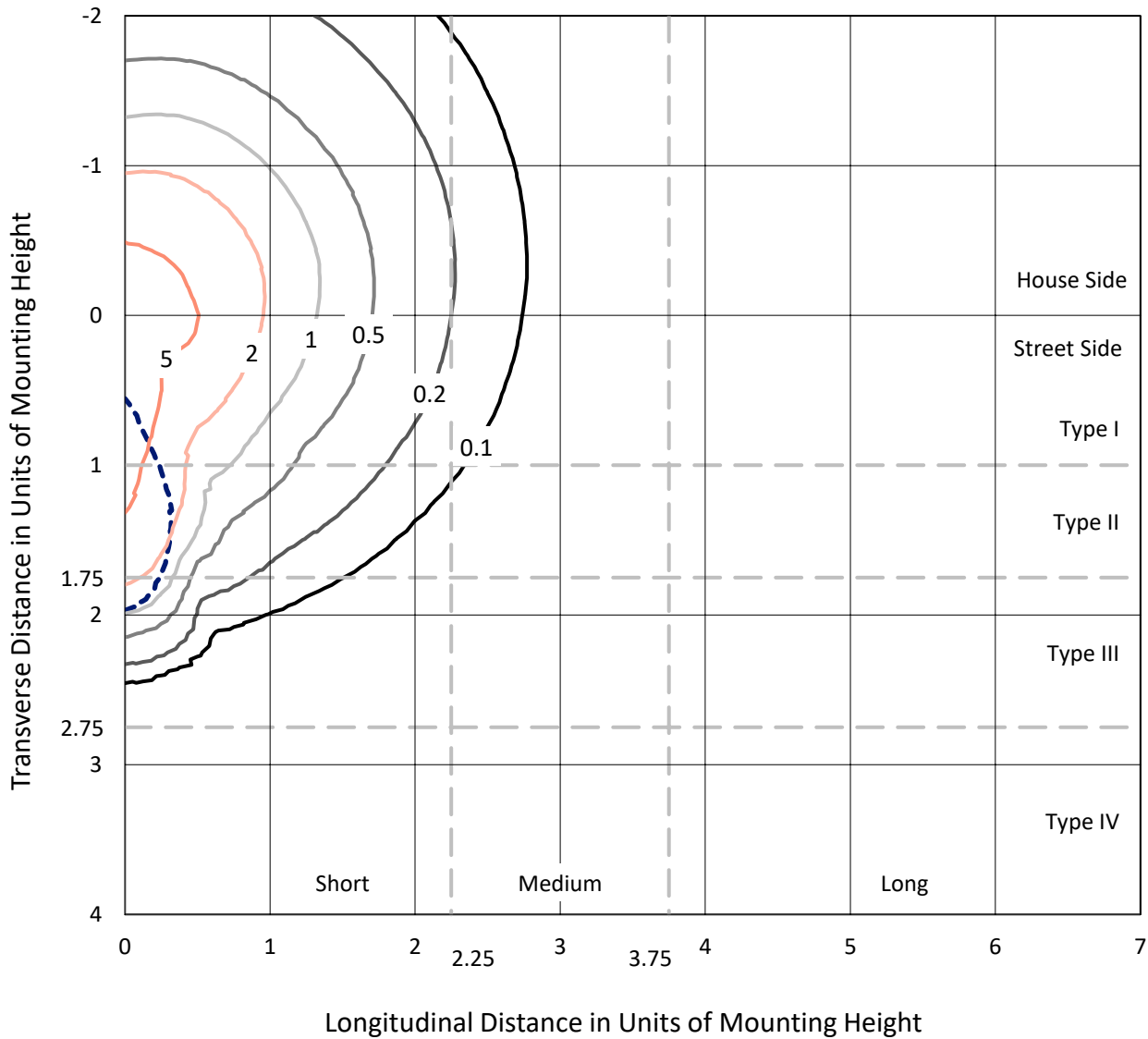
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

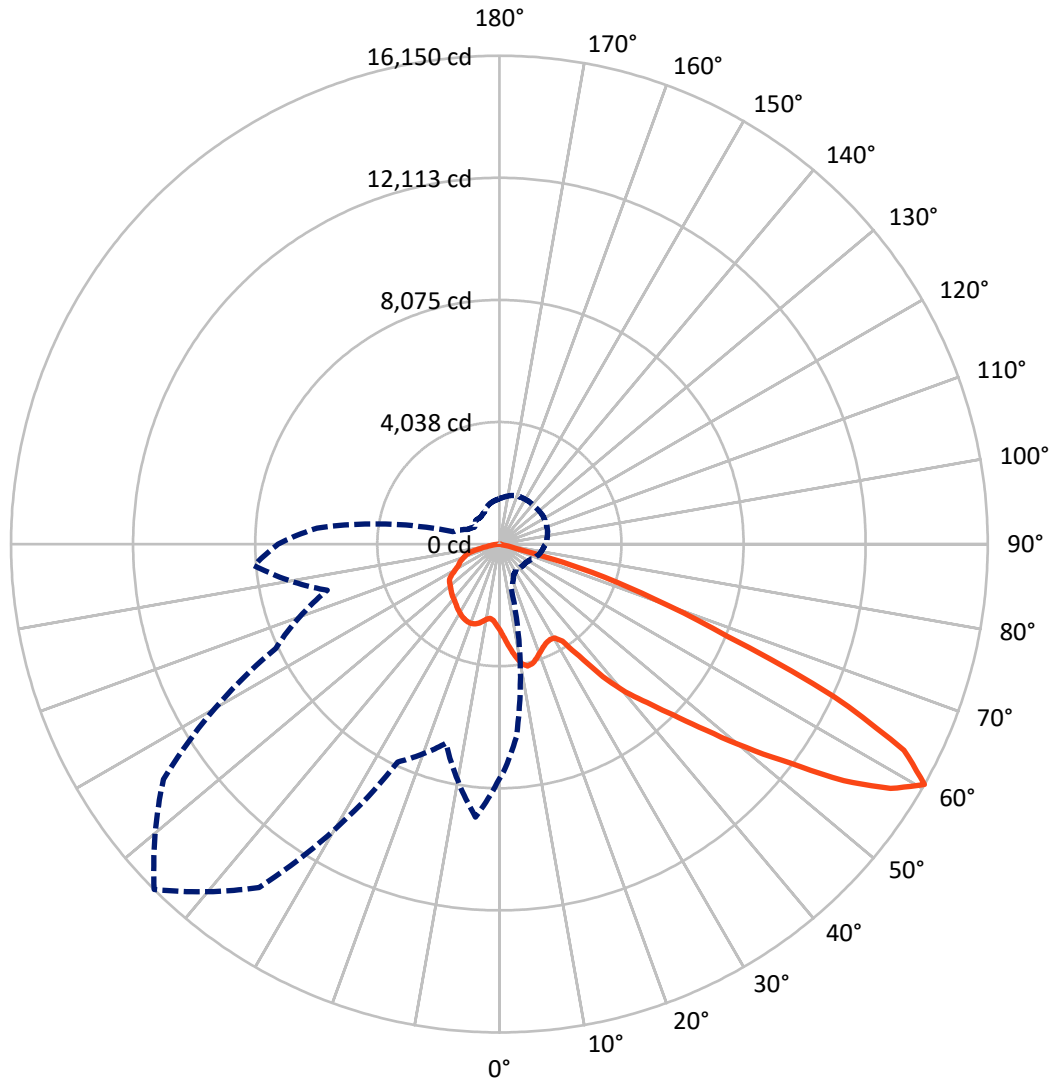
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4836.3	0.0	4836.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	9301.2	0.0	9301.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	14137.5	0.0	14137.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	2.0
10°-20°	893.5	6.3
20°-30°	1455.2	10.3
30°-40°	2044.3	14.5
40°-50°	2797.4	19.8
50°-60°	3588.9	25.4
60°-70°	2416.6	17.1
70°-80°	604.1	4.3
80°-90°	58.9	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°	14137.5	100.0
0°-180°	14137.5	100.0

Coefficient of Utilization



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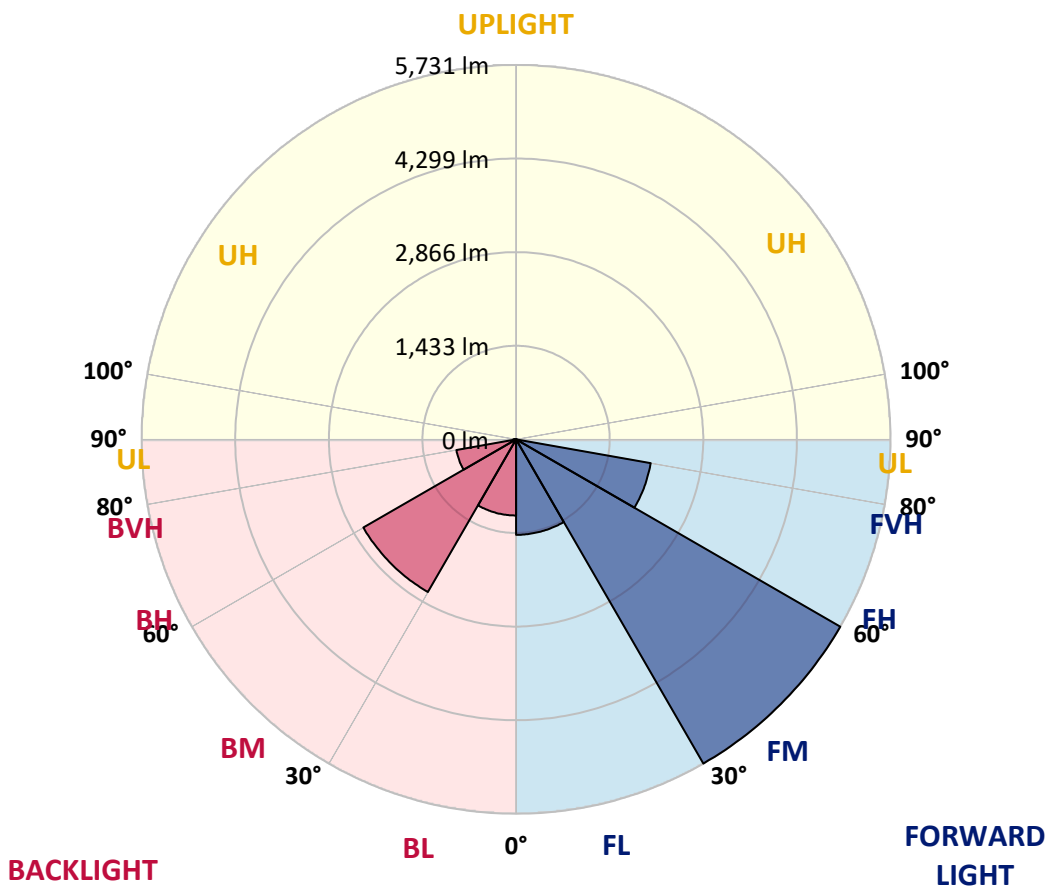
CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.5	10.3			
FM (30°-60°)	5731.5	40.5			
FH (60°-80°)	2092.9	14.8			G2/5000
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1165.8	8.2	B3/2500		
BM (30°-60°)	2699.1	19.1	B3/5000		
BH (60°-80°)	927.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	43.6	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°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	3016.7	3010.2	3003.7	2952.9	2939.9	2903.5	2877.4	2844.9	2798.0	2772.0	2749.8
5°	3205.5	3195.1	3160.0	3055.8	2988.1	2913.9	2852.7	2785.0	2713.4	2666.5	2630.0
7.5°	3383.9	3381.3	3321.4	3149.5	3040.2	2933.4	2850.1	2751.1	2648.3	2578.0	2531.1
10°	3549.3	3529.7	3458.1	3234.2	3091.0	2968.6	2878.7	2769.4	2649.6	2554.5	2492.0
12.5°	3695.1	3670.3	3571.4	3312.3	3135.2	2984.2	2886.5	2796.7	2717.3	2637.9	2566.2
15°	3814.9	3784.9	3684.7	3385.2	3174.3	2975.1	2838.4	2768.1	2795.4	2830.6	2751.1
17.5°	3926.8	3895.6	3773.2	3438.6	3186.0	2919.1	2719.9	2689.9	2827.9	2988.1	2951.6
20°	4020.6	3985.4	3843.5	3464.6	3165.2	2812.3	2566.2	2618.3	2800.6	2992.0	3050.6
22.5°	4122.1	4093.5	3922.9	3502.4	3139.1	2665.2	2437.3	2564.9	2753.7	2921.7	3010.2
25°	4284.9	4249.7	4046.6	3568.8	3126.1	2527.2	2344.9	2512.9	2688.6	2841.0	2910.0
27.5°	4520.5	4455.4	4215.9	3684.7	3140.4	2397.0	2286.3	2449.1	2613.1	2743.3	2799.3
30°	4777.0	4698.9	4403.4	3804.4	3161.3	2317.6	2255.1	2376.2	2497.2	2627.4	2688.6
32.5°	5080.4	5011.4	4603.9	3894.3	3117.0	2281.1	2231.6	2296.7	2393.1	2497.2	2548.0
35°	5442.4	5318.7	4822.6	3967.2	2973.8	2227.7	2210.8	2209.5	2260.3	2361.8	2419.1
37.5°	5831.7	5698.9	5092.1	4045.3	2751.1	2143.1	2161.3	2106.6	2153.5	2234.2	2299.3
40°	6150.7	6011.3	5364.2	4152.1	2472.5	2010.3	2052.0	1993.4	2022.0	2105.3	2178.2
42.5°	6463.1	6314.7	5618.1	4273.2	2203.0	1880.1	1900.9	1878.8	1887.9	1975.1	2076.7
45°	6873.3	6706.6	5930.6	4359.1	1960.8	1777.2	1757.7	1719.9	1768.1	1881.4	1989.5
47.5°	7558.1	7358.9	6442.3	4415.1	1785.0	1718.6	1628.8	1606.7	1666.6	1792.9	1904.8
50°	8358.9	8187.0	7260.0	4412.5	1653.5	1669.2	1503.8	1484.3	1583.2	1710.8	1829.3
52.5°	9015.1	8840.6	7959.1	4282.3	1545.5	1563.7	1430.9	1376.2	1511.6	1630.1	1748.6
55°	9545.0	9348.4	8280.7	3738.0	1408.8	1395.7	1351.5	1251.2	1421.8	1549.4	1660.1
57.5°	9259.8	9025.5	7891.4	2842.3	1268.1	1186.1	1214.8	1140.6	1299.4	1459.5	1566.3
60°	7763.8	7552.9	6411.1	1512.9	1115.8	990.8	1050.7	1062.4	1165.3	1351.5	1460.8
62.5°	5333.0	5179.4	4344.8	917.9	880.2	795.5	889.3	973.9	1050.7	1208.3	1303.3
65°	2609.2	2563.6	2173.0	588.5	615.8	643.2	736.9	839.8	953.1	1091.1	1191.3
67.5°	718.7	723.9	658.8	459.6	485.6	561.2	635.4	717.4	830.7	958.3	1059.8
70°	316.4	321.6	332.0	354.1	403.6	472.6	549.4	634.1	738.2	845.0	942.6
72.5°	220.0	225.2	240.9	269.5	313.8	378.9	451.8	532.5	640.6	730.4	811.1
75°	135.4	139.3	153.6	178.4	208.3	257.8	329.4	403.6	498.7	580.7	652.3
77.5°	71.6	69.0	78.1	95.0	121.1	147.1	195.3	242.2	309.9	376.3	436.2
80°	39.1	37.8	43.0	52.1	59.9	80.7	113.3	144.5	183.6	221.3	253.9
82.5°	16.9	15.6	16.9	22.1	27.3	39.1	57.3	79.4	101.6	127.6	148.4
85°	0.0	0.0	0.0	1.3	6.5	10.4	19.5	28.6	41.7	57.3	70.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	11.7
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°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	2736.8	2704.3	2701.7	2675.6	2678.2	2679.5	2653.5	2643.1	2652.2	2662.6	2657.4
5°	2617.0	2583.2	2568.8	2544.1	2541.5	2529.8	2519.4	2506.4	2515.5	2524.6	2529.8
7.5°	2512.9	2490.7	2481.6	2475.1	2477.7	2472.5	2451.7	2440.0	2438.6	2442.6	2447.8
10°	2479.0	2460.8	2472.5	2490.7	2503.7	2512.9	2490.7	2471.2	2453.0	2445.2	2445.2
12.5°	2551.9	2528.5	2551.9	2571.5	2597.5	2604.0	2579.3	2558.4	2551.9	2559.7	2575.4
15°	2713.4	2658.7	2657.4	2669.1	2689.9	2700.4	2676.9	2666.5	2666.5	2716.0	2755.0
17.5°	2874.8	2785.0	2747.2	2740.7	2753.7	2757.6	2738.1	2729.0	2752.4	2848.8	2921.7
20°	2988.1	2878.7	2796.7	2781.1	2785.0	2786.3	2770.7	2764.1	2798.0	2915.2	2976.4
22.5°	2976.4	2895.7	2795.4	2775.9	2782.4	2779.8	2765.5	2762.8	2790.2	2891.7	2920.4
25°	2895.7	2833.2	2748.5	2735.5	2745.9	2744.6	2730.3	2723.8	2735.5	2803.2	2805.8
27.5°	2803.2	2748.5	2675.6	2671.7	2688.6	2697.7	2673.0	2653.5	2649.6	2695.1	2684.7
30°	2692.5	2652.2	2593.6	2596.2	2627.4	2632.6	2602.7	2574.1	2566.2	2591.0	2576.7
32.5°	2561.0	2548.0	2516.8	2523.3	2553.2	2563.6	2532.4	2502.4	2493.3	2501.1	2471.2
35°	2449.1	2443.9	2446.5	2458.2	2484.2	2492.0	2466.0	2442.6	2429.5	2402.2	2363.1
37.5°	2333.2	2347.5	2385.3	2407.4	2421.7	2419.1	2404.8	2387.9	2367.0	2316.3	2268.1
40°	2225.1	2261.6	2329.3	2354.0	2359.2	2360.5	2350.1	2335.8	2309.8	2242.0	2187.4
42.5°	2141.8	2182.2	2272.0	2309.8	2312.4	2315.0	2304.5	2292.8	2256.4	2166.5	2113.1
45°	2054.6	2107.9	2213.4	2259.0	2256.4	2255.1	2246.0	2240.7	2197.8	2093.6	2035.0
47.5°	1980.3	2042.8	2156.1	2195.2	2193.9	2192.6	2186.1	2186.1	2143.1	2029.8	1963.4
50°	1907.4	1979.0	2097.5	2130.1	2132.7	2130.1	2127.5	2131.4	2080.6	1959.5	1894.4
52.5°	1828.0	1908.7	2032.4	2062.4	2078.0	2084.5	2084.5	2075.4	2015.5	1889.2	1817.6
55°	1740.8	1817.6	1960.8	2001.2	2014.2	2025.9	2025.9	2007.7	1951.7	1824.1	1747.3
57.5°	1632.7	1700.4	1813.7	1854.1	1885.3	1893.1	1893.1	1863.2	1817.6	1695.2	1632.7
60°	1515.5	1574.1	1650.9	1693.9	1717.3	1701.7	1713.4	1705.6	1669.2	1555.9	1503.8
62.5°	1359.3	1419.2	1503.8	1548.1	1558.5	1542.9	1558.5	1557.2	1507.7	1406.2	1343.7
65°	1247.3	1305.9	1389.2	1446.5	1463.4	1459.5	1470.0	1454.3	1393.1	1296.8	1236.9
67.5°	1114.5	1177.0	1273.4	1337.2	1372.3	1376.2	1390.5	1358.0	1295.5	1190.0	1114.5
70°	988.2	1041.6	1115.8	1175.7	1225.2	1249.9	1252.5	1205.7	1127.5	1040.3	985.6
72.5°	855.4	910.1	999.9	1065.0	1127.5	1156.2	1156.2	1098.9	1014.3	917.9	859.3
75°	694.0	744.7	826.8	897.1	968.7	1005.1	1003.8	954.4	860.6	769.5	708.3
77.5°	470.0	507.8	559.9	613.2	623.7	652.3	666.6	604.1	552.0	502.6	447.9
80°	273.4	296.9	325.5	355.4	362.0	371.1	347.6	324.2	296.9	264.3	239.6
82.5°	160.1	175.8	190.1	213.5	217.4	220.0	199.2	188.8	166.7	147.1	131.5
85°	78.1	83.3	96.3	108.1	102.9	100.3	91.1	80.7	71.6	63.8	56.0
87.5°	15.6	15.6	23.4	22.1	18.2	15.6	9.1	11.7	2.6	2.6	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	2674.3	2696.4	2723.8	2760.2	2801.9	2846.2	2889.1	2921.7	2954.2	3002.4	2994.6
5°	2537.6	2575.4	2618.3	2674.3	2742.0	2818.8	2904.8	2990.7	3083.1	3161.3	3195.1
7.5°	2458.2	2499.8	2550.6	2623.5	2710.8	2804.5	2925.6	3064.9	3214.6	3317.5	3381.3
10°	2458.2	2511.6	2578.0	2648.3	2725.1	2821.4	2971.2	3145.6	3338.3	3473.7	3548.0
12.5°	2600.1	2653.5	2667.8	2665.2	2708.2	2814.9	3007.6	3230.3	3460.7	3603.9	3695.1
15°	2821.4	2839.7	2731.6	2632.6	2639.2	2768.1	3024.5	3298.0	3566.2	3738.0	3837.0
17.5°	2969.9	2921.7	2729.0	2555.8	2519.4	2688.6	3024.5	3363.1	3678.2	3872.2	3964.6
20°	2981.6	2861.8	2662.6	2481.6	2387.9	2583.2	3003.7	3412.5	3786.2	4001.1	4100.0
22.5°	2878.7	2760.2	2592.3	2417.8	2279.8	2455.6	2969.9	3450.3	3878.7	4122.1	4244.5
25°	2761.5	2662.6	2520.7	2352.7	2205.6	2326.7	2938.6	3514.1	4007.6	4286.2	4409.9
27.5°	2647.0	2563.6	2434.7	2298.0	2163.9	2214.7	2919.1	3607.8	4161.2	4519.2	4626.0
30°	2535.0	2459.5	2342.3	2246.0	2141.8	2141.8	2902.2	3715.9	4364.3	4780.9	4887.7
32.5°	2421.7	2350.1	2255.1	2195.2	2128.8	2113.1	2855.3	3817.5	4573.9	5067.4	5176.8
35°	2316.3	2244.7	2171.7	2147.0	2122.3	2091.0	2739.4	3896.9	4778.3	5402.0	5495.7
37.5°	2217.3	2148.3	2093.6	2087.1	2089.7	2031.1	2557.1	3963.3	5033.5	5744.4	5793.9
40°	2131.4	2054.6	2011.6	2010.3	2023.3	1934.8	2326.7	4058.3	5325.2	6034.8	6013.9
42.5°	2054.6	1973.8	1921.8	1933.5	1925.7	1838.4	2101.4	4145.6	5579.1	6306.9	6265.2
45°	1979.0	1900.9	1828.0	1844.9	1835.8	1778.5	1910.0	4209.4	5860.3	6633.7	6638.9
47.5°	1906.1	1829.3	1756.4	1735.6	1734.3	1760.3	1762.9	4230.2	6318.6	7159.7	7041.2
50°	1838.4	1761.6	1686.1	1615.8	1643.1	1723.9	1653.5	4214.6	7004.8	7740.4	7409.7
52.5°	1768.1	1695.2	1611.9	1485.6	1557.2	1636.6	1555.9	4158.6	7424.0	8253.4	8055.5
55°	1687.4	1618.4	1505.1	1351.5	1438.7	1455.6	1455.6	3617.0	7602.4	8761.2	8883.6
57.5°	1579.3	1488.2	1308.5	1184.8	1262.9	1197.8	1348.9	2531.1	7308.1	8601.0	9076.3
60°	1456.9	1359.3	1169.2	1080.7	1104.1	989.5	1149.7	1587.1	6056.9	7318.6	8141.4
62.5°	1295.5	1205.7	1048.1	979.1	930.9	807.2	925.7	1003.8	4152.1	5434.6	5995.7
65°	1187.4	1088.5	947.9	856.7	757.8	649.7	614.5	658.8	2232.9	3041.5	3420.4
67.5°	1059.8	962.2	829.4	714.8	635.4	557.3	496.1	480.4	765.6	1013.0	1096.3
70°	938.7	845.0	734.3	627.6	548.1	471.3	411.4	368.5	354.1	351.5	346.3
72.5°	815.1	727.8	635.4	536.4	449.2	378.9	325.5	276.0	255.2	248.7	242.2
75°	667.9	598.9	506.5	399.7	329.4	264.3	222.6	190.1	171.9	165.4	157.5
77.5°	429.7	398.4	317.7	257.8	199.2	157.5	135.4	114.6	102.9	100.3	93.7
80°	229.2	213.5	175.8	148.4	118.5	96.3	84.6	72.9	66.4	63.8	61.2
82.5°	127.6	115.9	97.7	85.9	69.0	58.6	52.1	46.9	43.0	41.7	40.4
85°	57.3	49.5	39.1	36.5	32.6	29.9	28.6	26.0	24.7	23.4	22.1
87.5°	2.6	5.2	6.5	5.2	5.2	7.8	9.1	9.1	7.8	7.8	6.5
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: P639305

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	3042.8	3081.8	3085.7	3098.8	3081.8	3077.9	3050.6	3035.0	3020.6	3016.7
5°	3279.7	3357.9	3389.1	3411.2	3390.4	3380.0	3320.1	3257.6	3222.5	3205.5
7.5°	3523.2	3640.4	3701.6	3728.9	3731.5	3684.7	3581.8	3464.6	3406.0	3383.9
10°	3740.7	3885.2	3965.9	4018.0	3999.7	3942.5	3801.8	3643.0	3568.8	3549.3
12.5°	3902.1	4040.1	4102.6	4136.5	4135.2	4103.9	3971.1	3799.2	3714.6	3695.1
15°	4006.3	4088.3	4092.2	4100.0	4122.1	4163.8	4094.8	3936.0	3842.2	3814.9
17.5°	4088.3	4055.7	3994.5	3973.7	4023.2	4139.1	4180.7	4051.8	3950.3	3926.8
20°	4140.4	3976.3	3868.2	3827.9	3885.2	4074.0	4232.8	4156.0	4050.5	4020.6
22.5°	4180.7	3902.1	3727.6	3700.3	3760.2	4003.7	4286.2	4279.7	4163.8	4122.1
25°	4244.5	3852.6	3628.7	3609.1	3665.1	3969.8	4357.8	4447.6	4344.8	4284.9
27.5°	4344.8	3847.4	3577.9	3571.4	3648.2	3999.7	4460.7	4693.7	4564.8	4520.5
30°	4484.1	3896.9	3589.6	3602.6	3696.4	4107.8	4620.8	4974.9	4846.0	4777.0
32.5°	4684.6	4029.7	3768.0	3824.0	3893.0	4281.0	4855.2	5279.6	5182.0	5080.4
35°	4948.9	4394.3	4295.3	4533.6	4468.5	4659.9	5137.7	5649.4	5530.9	5442.4
37.5°	5301.8	5141.6	5232.7	5560.8	5403.3	5376.0	5482.7	5985.3	5920.2	5831.7
40°	5796.5	5829.1	5997.0	6428.0	6200.1	6024.4	5905.9	6237.9	6260.0	6150.7
42.5°	6124.6	6274.3	6679.3	7168.8	6855.0	6434.5	6260.0	6560.8	6562.1	6463.1
45°	6247.0	6638.9	7485.2	8049.0	7524.3	6668.9	6455.3	6999.6	6986.5	6873.3
47.5°	6202.7	6946.2	8322.4	9184.3	8383.6	6835.5	6428.0	7624.5	7730.0	7558.1
50°	6110.3	7254.8	9300.2	10574.9	9438.2	7012.6	6386.3	8317.2	8491.7	8358.9
52.5°	6204.0	7598.5	10456.4	12012.3	10761.0	7295.1	6667.6	9206.5	9175.2	9015.1
55°	6500.9	8004.7	11861.2	13818.1	12214.1	7772.9	7390.2	10054.1	9736.4	9545.0
57.5°	6486.6	8295.1	13092.9	15246.4	13478.3	8164.9	7641.4	10143.9	9502.0	9259.8
60°	5887.7	8162.2	13561.6	16150.0	13859.8	7948.7	6814.7	9060.6	8017.7	7763.8
62.5°	4394.3	7243.0	12652.9	15018.6	12780.4	6865.5	5124.7	6503.5	5761.4	5333.0
65°	2811.0	5666.3	10637.4	12167.2	10534.5	5251.0	3051.9	3486.8	2731.6	2609.2
67.5°	1196.5	3999.7	8269.0	8132.3	7881.0	3402.1	1178.3	981.7	731.7	718.7
70°	395.8	2721.2	5097.3	5424.1	4706.7	2343.6	389.3	329.4	328.1	316.4
72.5°	259.1	1460.8	2869.6	3195.1	3028.5	1348.9	235.7	220.0	225.2	220.0
75°	154.9	317.7	483.0	627.6	483.0	226.5	141.9	139.3	141.9	135.4
77.5°	91.1	88.5	85.9	85.9	84.6	78.1	71.6	69.0	70.3	71.6
80°	58.6	56.0	53.4	52.1	45.6	43.0	40.4	37.8	37.8	39.1
82.5°	37.8	35.2	32.6	28.6	23.4	19.5	18.2	15.6	15.6	16.9
85°	19.5	15.6	11.7	9.1	5.2	2.6	0.0	0.0	0.0	0.0
87.5°	3.9	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)