

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: P637325

Luminaire Tested: GWS-SA4C-750-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637325
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-SA4C-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15455.8 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

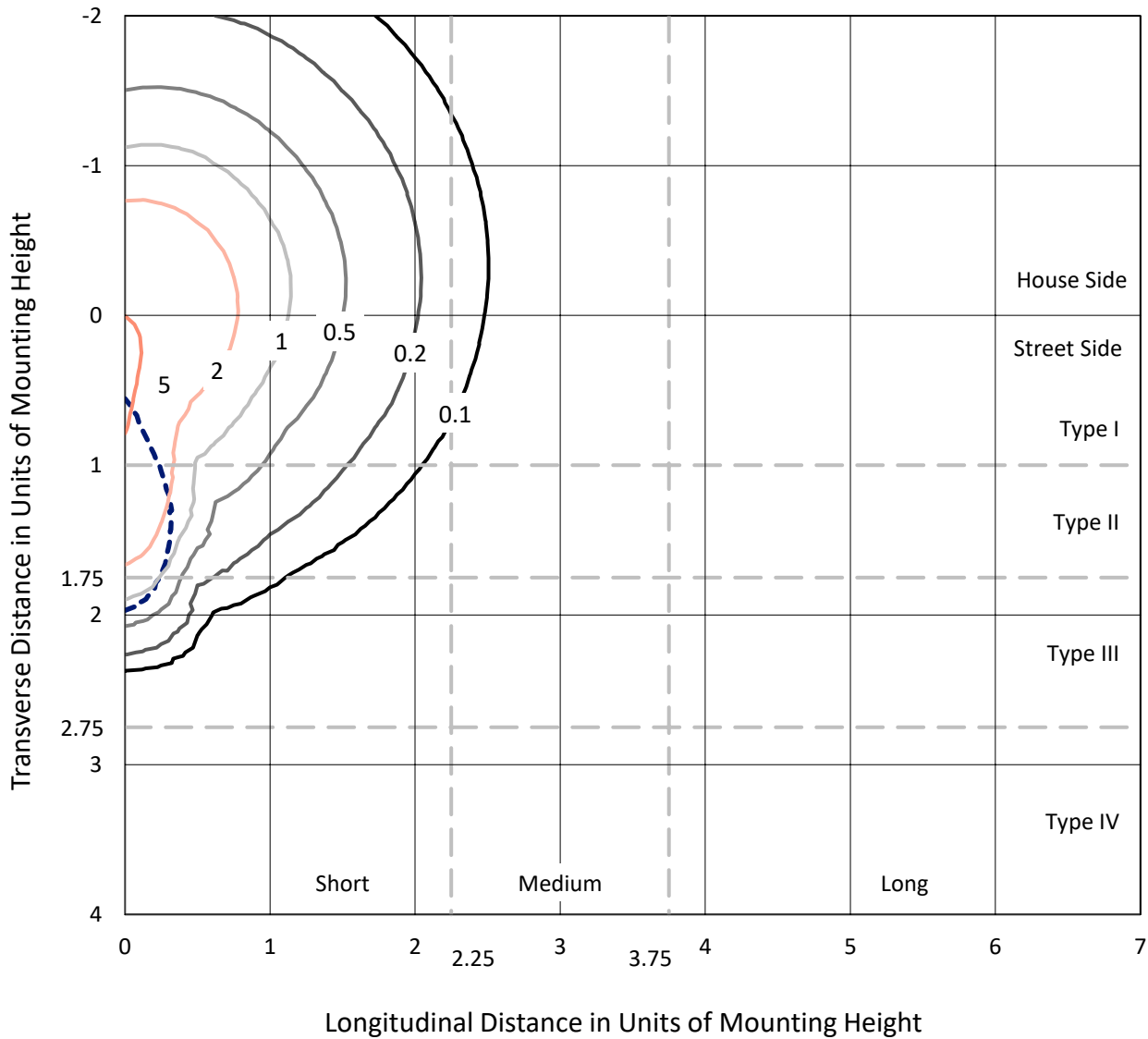
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637325
 CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

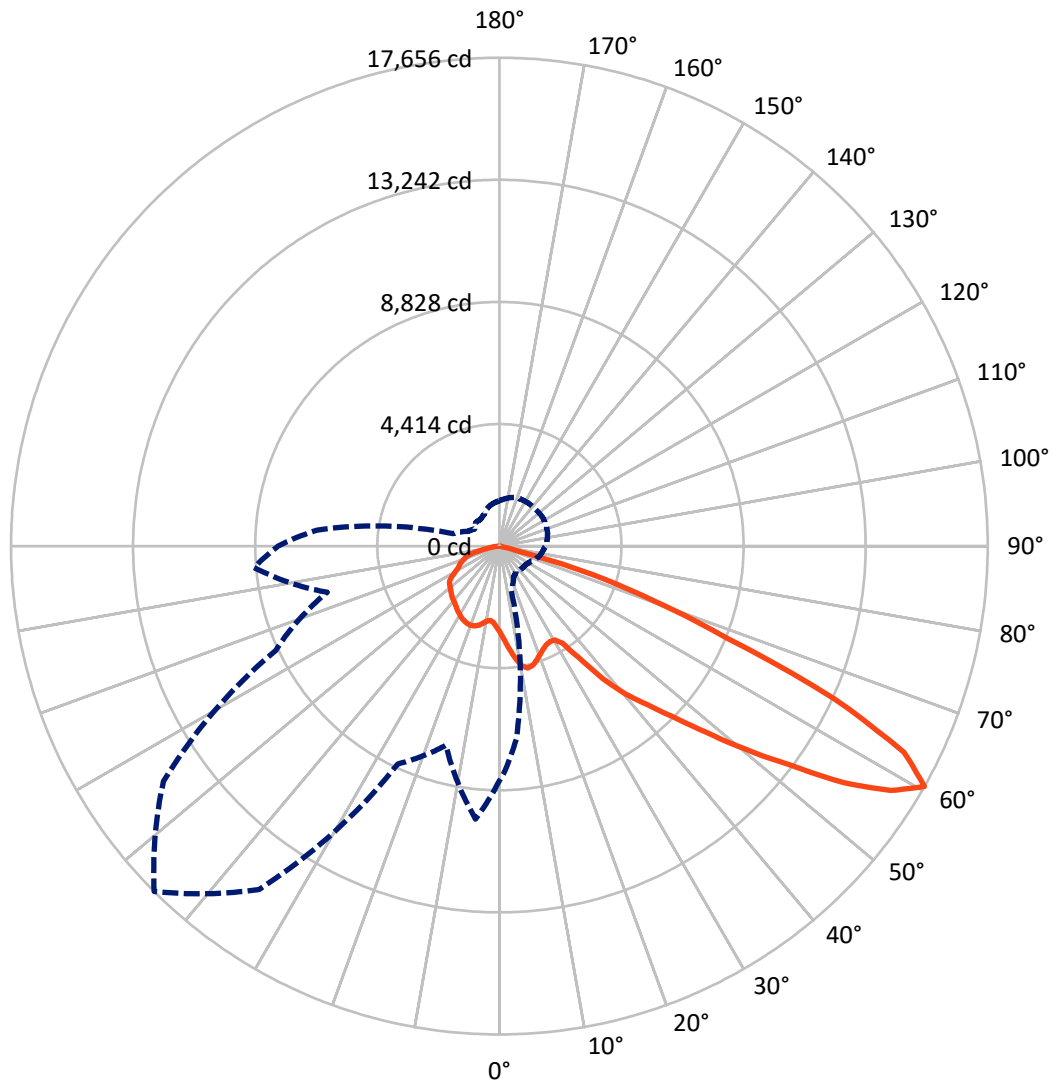
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P637325
CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637325

CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5287.3	0.0	5287.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	10168.5	0.0	10168.5
	% Fixture	65.8	0.0	65.8
Total	Lumens	15455.8	0.0	15455.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.6	2.0
10°-20°	976.9	6.3
20°-30°	1590.9	10.3
30°-40°	2234.9	14.5
40°-50°	3058.2	19.8
50°-60°	3923.5	25.4
60°-70°	2641.9	17.1
70°-80°	660.5	4.3
80°-90°	64.4	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°	15455.8	100.0
0°-180°	15455.8	100.0

Coefficient of Utilization



REPORT NUMBER: P637325

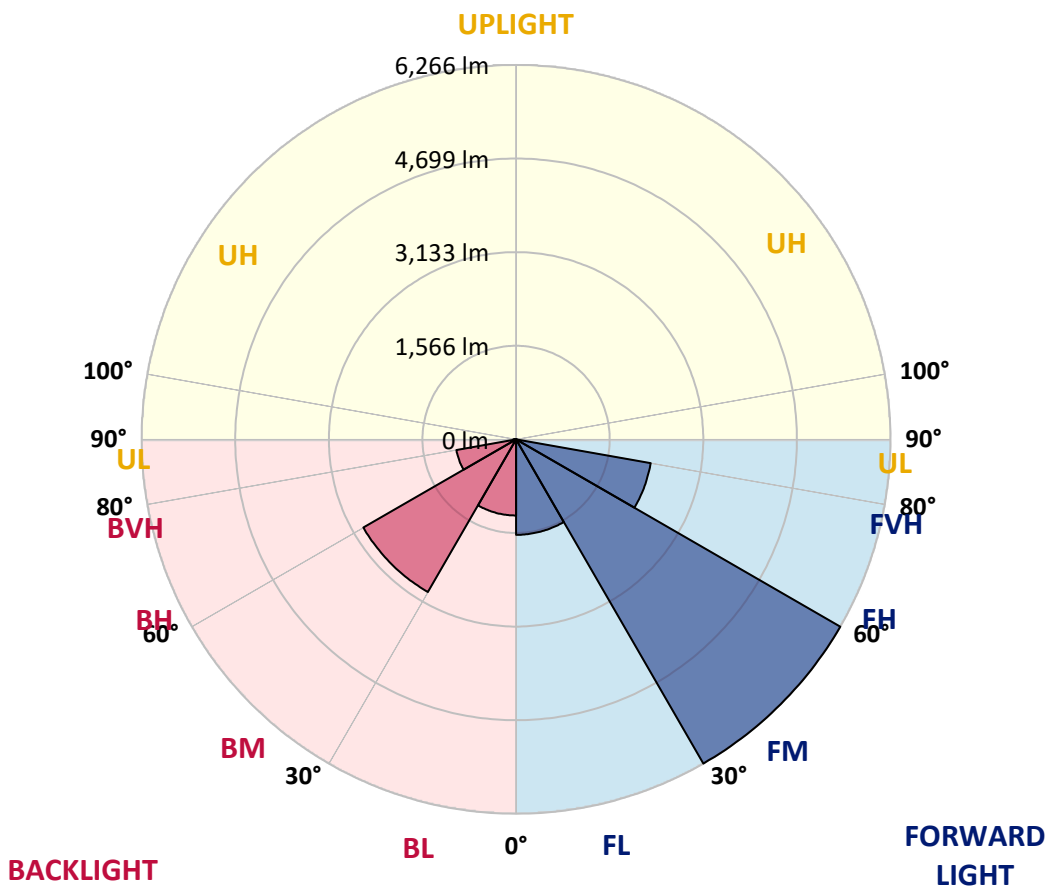
CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.8	10.3			
FM (30°-60°)	6265.9	40.5			
FH (60°-80°)	2288.1	14.8			G2/5000
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1274.6	8.2	B3/2500		
BM (30°-60°)	2950.7	19.1	B3/5000		
BH (60°-80°)	1014.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	47.7	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-G3

Type III Short





REPORT NUMBER: P637325

CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	3298.0	3290.9	3283.8	3228.3	3214.1	3174.2	3145.7	3110.2	3058.9	3030.4	3006.2
5°	3504.4	3493.1	3454.6	3340.7	3266.7	3185.6	3118.7	3044.7	2966.4	2915.1	2875.3
7.5°	3699.4	3696.6	3631.1	3443.2	3323.7	3206.9	3115.8	3007.7	2895.2	2818.4	2767.1
10°	3880.2	3858.9	3780.6	3535.8	3379.2	3245.4	3147.2	3027.6	2896.6	2792.7	2724.4
12.5°	4039.6	4012.6	3904.4	3621.2	3427.6	3262.5	3155.7	3057.5	2970.7	2883.8	2805.5
15°	4170.6	4137.9	4028.3	3700.9	3470.3	3252.5	3103.0	3026.2	3056.1	3094.5	3007.7
17.5°	4293.0	4258.8	4125.0	3759.2	3483.1	3191.3	2973.5	2940.8	3091.6	3266.7	3226.9
20°	4395.5	4357.1	4201.9	3787.7	3460.3	3074.6	2805.5	2862.5	3061.8	3271.0	3335.1
22.5°	4506.5	4475.2	4288.7	3829.0	3431.8	2913.7	2664.6	2804.1	3010.5	3194.1	3290.9
25°	4684.4	4646.0	4424.0	3901.6	3417.6	2762.8	2563.6	2747.2	2939.3	3105.9	3181.3
27.5°	4942.1	4870.9	4609.0	4028.3	3433.3	2620.5	2499.5	2677.4	2856.8	2999.1	3060.3
30°	5222.5	5137.1	4814.0	4159.2	3456.0	2533.7	2465.3	2597.7	2730.1	2872.4	2939.3
32.5°	5554.2	5478.7	5033.2	4257.4	3407.6	2493.8	2439.7	2510.9	2616.2	2730.1	2785.6
35°	5949.9	5814.6	5272.3	4337.1	3251.1	2435.5	2417.0	2415.5	2471.0	2582.1	2644.7
37.5°	6375.5	6230.3	5567.0	4422.5	3007.7	2342.9	2362.9	2303.1	2354.3	2442.6	2513.7
40°	6724.2	6571.9	5864.5	4539.3	2703.1	2197.7	2243.3	2179.2	2210.6	2301.7	2381.4
42.5°	7065.8	6903.5	6142.0	4671.6	2408.4	2055.4	2078.2	2054.0	2063.9	2159.3	2270.3
45°	7514.2	7332.0	6483.6	4765.6	2143.7	1943.0	1921.6	1880.3	1933.0	2056.8	2175.0
47.5°	8262.9	8045.1	7043.0	4826.8	1951.5	1878.9	1780.7	1756.5	1822.0	1960.0	2082.5
50°	9138.3	8950.4	7936.9	4823.9	1807.7	1824.8	1644.0	1622.7	1730.9	1870.4	1999.9
52.5°	9855.7	9665.0	8701.3	4681.6	1689.6	1709.5	1564.3	1504.5	1652.6	1782.1	1911.6
55°	10435.0	10220.1	9052.9	4086.6	1540.1	1525.9	1477.5	1367.9	1554.4	1693.9	1814.8
57.5°	10123.3	9867.1	8627.3	3107.3	1386.4	1296.7	1328.0	1246.9	1420.6	1595.6	1712.4
60°	8487.8	8257.2	7008.9	1654.0	1219.9	1083.2	1148.7	1161.5	1274.0	1477.5	1597.1
62.5°	5830.3	5662.3	4749.9	1003.5	962.2	869.7	972.2	1064.7	1148.7	1320.9	1424.8
65°	2852.5	2802.7	2375.7	643.4	673.3	703.2	805.7	918.1	1041.9	1192.8	1302.4
67.5°	785.7	791.4	720.2	502.5	530.9	613.5	694.6	784.3	908.1	1047.6	1158.7
70°	345.9	351.6	363.0	387.2	441.3	516.7	600.7	693.2	807.1	923.8	1030.5
72.5°	240.6	246.3	263.3	294.6	343.0	414.2	493.9	582.2	700.3	798.5	886.8
75°	148.0	152.3	168.0	195.0	227.7	281.8	360.1	441.3	545.2	634.8	713.1
77.5°	78.3	75.4	85.4	103.9	132.4	160.8	213.5	264.8	338.8	411.4	476.8
80°	42.7	41.3	47.0	56.9	65.5	88.3	123.8	158.0	200.7	242.0	277.6
82.5°	18.5	17.1	18.5	24.2	29.9	42.7	62.6	86.8	111.0	139.5	162.3
85°	0.0	0.0	0.0	1.4	7.1	11.4	21.4	31.3	45.5	62.6	76.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	12.8
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: P637325

CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	2992.0	2956.4	2953.6	2925.1	2928.0	2929.4	2900.9	2889.5	2899.5	2910.9	2905.2
5°	2861.1	2824.0	2808.4	2781.3	2778.5	2765.7	2754.3	2740.1	2750.0	2760.0	2765.7
7.5°	2747.2	2723.0	2713.0	2705.9	2708.8	2703.1	2680.3	2667.5	2666.0	2670.3	2676.0
10°	2710.2	2690.2	2703.1	2723.0	2737.2	2747.2	2723.0	2701.6	2681.7	2673.2	2673.2
12.5°	2789.9	2764.3	2789.9	2811.2	2839.7	2846.8	2819.8	2797.0	2789.9	2798.4	2815.5
15°	2966.4	2906.6	2905.2	2918.0	2940.8	2952.2	2926.5	2915.1	2915.1	2969.2	3011.9
17.5°	3142.9	3044.7	3003.4	2996.3	3010.5	3014.8	2993.4	2983.5	3009.1	3114.4	3194.1
20°	3266.7	3147.2	3057.5	3040.4	3044.7	3046.1	3029.0	3021.9	3058.9	3187.0	3253.9
22.5°	3253.9	3165.7	3056.1	3034.7	3041.8	3039.0	3023.3	3020.5	3050.4	3161.4	3192.7
25°	3165.7	3097.3	3004.8	2990.6	3002.0	3000.6	2984.9	2977.8	2990.6	3064.6	3067.5
27.5°	3064.6	3004.8	2925.1	2920.8	2939.3	2949.3	2922.3	2900.9	2896.6	2946.5	2935.1
30°	2943.6	2899.5	2835.4	2838.3	2872.4	2878.1	2845.4	2814.1	2805.5	2832.6	2816.9
32.5°	2799.8	2785.6	2751.5	2758.6	2791.3	2802.7	2768.5	2735.8	2725.8	2734.4	2701.6
35°	2677.4	2671.7	2674.6	2687.4	2715.9	2724.4	2695.9	2670.3	2656.1	2626.2	2583.5
37.5°	2550.8	2566.4	2607.7	2631.9	2647.5	2644.7	2629.0	2610.5	2587.8	2532.2	2479.6
40°	2432.6	2472.5	2546.5	2573.5	2579.2	2580.6	2569.3	2553.6	2525.1	2451.1	2391.3
42.5°	2341.5	2385.6	2483.9	2525.1	2528.0	2530.8	2519.4	2506.6	2466.8	2368.6	2310.2
45°	2246.1	2304.5	2419.8	2469.6	2466.8	2465.3	2455.4	2449.7	2402.7	2288.8	2224.8
47.5°	2165.0	2233.3	2357.2	2399.9	2398.4	2397.0	2389.9	2389.9	2342.9	2219.1	2146.5
50°	2085.3	2163.6	2293.1	2328.7	2331.5	2328.7	2325.9	2330.1	2274.6	2142.2	2071.1
52.5°	1998.5	2086.7	2221.9	2254.7	2271.8	2278.9	2278.9	2268.9	2203.4	2065.4	1987.1
55°	1903.1	1987.1	2143.7	2187.8	2202.0	2214.8	2214.8	2194.9	2133.7	1994.2	1910.2
57.5°	1785.0	1859.0	1982.8	2026.9	2061.1	2069.6	2069.6	2036.9	1987.1	1853.3	1785.0
60°	1656.9	1720.9	1804.9	1851.9	1877.5	1860.4	1873.2	1864.7	1824.8	1701.0	1644.0
62.5°	1486.0	1551.5	1644.0	1692.4	1703.8	1686.7	1703.8	1702.4	1648.3	1537.3	1469.0
65°	1363.6	1427.7	1518.8	1581.4	1599.9	1595.6	1607.0	1590.0	1523.1	1417.7	1352.2
67.5°	1218.4	1286.8	1392.1	1461.8	1500.3	1504.5	1520.2	1484.6	1416.3	1301.0	1218.4
70°	1080.4	1138.7	1219.9	1285.3	1339.4	1366.5	1369.3	1318.1	1232.7	1137.3	1077.5
72.5°	935.2	995.0	1093.2	1164.4	1232.7	1264.0	1264.0	1201.4	1108.8	1003.5	939.5
75°	758.7	814.2	903.9	980.7	1059.0	1098.9	1097.5	1043.4	940.9	841.2	774.3
77.5°	513.9	555.1	612.1	670.4	681.8	713.1	728.8	660.5	603.5	549.4	489.7
80°	298.9	324.5	355.9	388.6	395.7	405.7	380.1	354.4	324.5	289.0	261.9
82.5°	175.1	192.2	207.8	233.4	237.7	240.6	217.8	206.4	182.2	160.8	143.8
85°	85.4	91.1	105.3	118.1	112.4	109.6	99.6	88.3	78.3	69.7	61.2
87.5°	17.1	17.1	25.6	24.2	19.9	17.1	10.0	12.8	2.8	2.8	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: P637325

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	2923.7	2947.9	2977.8	3017.6	3063.2	3111.6	3158.5	3194.1	3229.7	3282.4	3273.8
5°	2774.2	2815.5	2862.5	2923.7	2997.7	3081.7	3175.6	3269.6	3370.6	3456.0	3493.1
7.5°	2687.4	2732.9	2788.5	2868.2	2963.5	3066.0	3198.4	3350.7	3514.4	3626.9	3696.6
10°	2687.4	2745.8	2818.4	2895.2	2979.2	3084.5	3248.2	3439.0	3649.6	3797.7	3878.8
12.5°	2842.6	2900.9	2916.6	2913.7	2960.7	3077.4	3288.1	3531.5	3783.4	3940.0	4039.6
15°	3084.5	3104.5	2986.3	2878.1	2885.3	3026.2	3306.6	3605.5	3898.7	4086.6	4194.8
17.5°	3246.8	3194.1	2983.5	2794.2	2754.3	2939.3	3306.6	3676.7	4021.1	4233.2	4334.3
20°	3259.6	3128.7	2910.9	2713.0	2610.5	2824.0	3283.8	3730.8	4139.3	4374.1	4482.3
22.5°	3147.2	3017.6	2834.0	2643.3	2492.4	2684.6	3246.8	3772.0	4240.3	4506.5	4640.3
25°	3019.1	2910.9	2755.7	2572.1	2411.3	2543.6	3212.6	3841.8	4381.3	4685.9	4821.1
27.5°	2893.8	2802.7	2661.8	2512.3	2365.7	2421.2	3191.3	3944.3	4549.2	4940.7	5057.4
30°	2771.4	2688.8	2560.7	2455.4	2341.5	2341.5	3172.8	4062.4	4771.3	5226.8	5343.5
32.5°	2647.5	2569.3	2465.3	2399.9	2327.3	2310.2	3121.5	4173.4	5000.4	5539.9	5659.5
35°	2532.2	2454.0	2374.2	2347.2	2320.2	2286.0	2994.9	4260.3	5223.9	5905.7	6008.2
37.5°	2424.1	2348.6	2288.8	2281.7	2284.6	2220.5	2795.6	4332.9	5502.9	6280.1	6334.2
40°	2330.1	2246.1	2199.2	2197.7	2212.0	2115.2	2543.6	4436.8	5821.8	6597.5	6574.7
42.5°	2246.1	2157.9	2101.0	2113.8	2105.2	2009.9	2297.4	4532.1	6099.3	6895.0	6849.5
45°	2163.6	2078.2	1998.5	2017.0	2007.0	1944.4	2088.1	4601.9	6406.8	7252.3	7258.0
47.5°	2083.9	1999.9	1920.2	1897.4	1896.0	1924.5	1927.3	4624.7	6907.8	7827.3	7697.8
50°	2009.9	1925.9	1843.3	1766.5	1796.3	1884.6	1807.7	4607.6	7658.0	8462.2	8100.6
52.5°	1933.0	1853.3	1762.2	1624.1	1702.4	1789.2	1701.0	4546.4	8116.3	9023.0	8806.6
55°	1844.7	1769.3	1645.5	1477.5	1572.9	1591.4	1591.4	3954.2	8311.3	9578.1	9711.9
57.5°	1726.6	1627.0	1430.5	1295.3	1380.7	1309.5	1474.7	2767.1	7989.6	9403.1	9922.6
60°	1592.8	1486.0	1278.2	1181.4	1207.1	1081.8	1256.9	1735.1	6621.7	8001.0	8900.6
62.5°	1416.3	1318.1	1145.8	1070.4	1017.7	882.5	1012.0	1097.5	4539.3	5941.3	6554.8
65°	1298.2	1190.0	1036.2	936.6	828.4	710.3	671.9	720.2	2441.2	3325.1	3739.3
67.5°	1158.7	1051.9	906.7	781.5	694.6	609.2	542.3	525.2	837.0	1107.4	1198.5
70°	1026.3	923.8	802.8	686.1	599.3	515.3	449.8	402.8	387.2	384.3	378.6
72.5°	891.1	795.7	694.6	586.4	491.1	414.2	355.9	301.8	279.0	271.9	264.8
75°	730.2	654.8	553.7	437.0	360.1	289.0	243.4	207.8	187.9	180.8	172.2
77.5°	469.7	435.6	347.3	281.8	217.8	172.2	148.0	125.3	112.4	109.6	102.5
80°	250.5	233.4	192.2	162.3	129.5	105.3	92.5	79.7	72.6	69.7	66.9
82.5°	139.5	126.7	106.8	93.9	75.4	64.1	56.9	51.2	47.0	45.5	44.1
85°	62.6	54.1	42.7	39.9	35.6	32.7	31.3	28.5	27.0	25.6	24.2
87.5°	2.8	5.7	7.1	5.7	5.7	8.5	10.0	10.0	8.5	8.5	7.1
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: P637325

CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	3326.5	3369.2	3373.5	3387.7	3369.2	3364.9	3335.1	3318.0	3302.3	3298.0
5°	3585.6	3671.0	3705.1	3729.3	3706.6	3695.2	3629.7	3561.4	3522.9	3504.4
7.5°	3851.8	3979.9	4046.8	4076.6	4079.5	4028.3	3915.8	3787.7	3723.6	3699.4
10°	4089.5	4247.5	4335.7	4392.6	4372.7	4310.1	4156.4	3982.7	3901.6	3880.2
12.5°	4266.0	4416.8	4485.2	4522.2	4520.8	4486.6	4341.4	4153.5	4061.0	4039.6
15°	4379.8	4469.5	4473.8	4482.3	4506.5	4552.1	4476.6	4303.0	4200.5	4170.6
17.5°	4469.5	4433.9	4367.0	4344.3	4398.3	4525.0	4570.6	4429.7	4318.6	4293.0
20°	4526.4	4347.1	4229.0	4184.8	4247.5	4453.9	4627.5	4543.5	4428.2	4395.5
22.5°	4570.6	4266.0	4075.2	4045.3	4110.8	4377.0	4685.9	4678.8	4552.1	4506.5
25°	4640.3	4211.9	3967.0	3945.7	4006.9	4340.0	4764.2	4862.4	4749.9	4684.4
27.5°	4749.9	4206.2	3911.5	3904.4	3988.4	4372.7	4876.6	5131.4	4990.5	4942.1
30°	4902.2	4260.3	3924.3	3938.6	4041.1	4490.9	5051.7	5438.9	5297.9	5222.5
32.5°	5121.4	4405.5	4119.4	4180.6	4256.0	4680.2	5307.9	5771.9	5665.2	5554.2
35°	5410.4	4804.0	4695.8	4956.3	4885.1	5094.4	5616.8	6176.2	6046.7	5949.9
37.5°	5796.1	5621.1	5720.7	6079.4	5907.2	5877.3	5994.0	6543.4	6472.3	6375.5
40°	6337.0	6372.6	6556.2	7027.4	6778.3	6586.1	6456.6	6819.6	6843.8	6724.2
42.5°	6695.7	6859.4	7302.1	7837.3	7494.3	7034.5	6843.8	7172.6	7174.0	7065.8
45°	6829.5	7258.0	8183.2	8799.5	8225.9	7290.7	7057.3	7652.3	7638.0	7514.2
47.5°	6781.1	7593.9	9098.4	10040.7	9165.3	7472.9	7027.4	8335.5	8450.8	8262.9
50°	6680.1	7931.2	10167.4	11560.9	10318.3	7666.5	6981.8	9092.8	9283.5	9138.3
52.5°	6782.6	8307.0	11431.4	13132.4	11764.5	7975.4	7289.3	10064.9	10030.8	9855.7
55°	7107.1	8751.1	12967.3	15106.7	13353.0	8497.8	8079.3	10991.6	10644.3	10435.0
57.5°	7091.4	9068.6	14313.8	16668.1	14735.2	8926.2	8354.0	11089.8	10388.1	10123.3
60°	6436.7	8923.4	14826.3	17656.0	15152.2	8689.9	7450.1	9905.5	8765.4	8487.8
62.5°	4804.0	7918.4	13832.7	16419.0	13972.2	7505.6	5602.5	7109.9	6298.6	5830.3
65°	3073.1	6194.7	11629.3	13301.8	11516.8	5740.6	3336.5	3811.9	2986.3	2852.5
67.5°	1308.1	4372.7	9040.1	8890.6	8615.9	3719.4	1288.2	1073.3	800.0	785.7
70°	432.7	2974.9	5572.7	5929.9	5145.6	2562.1	425.6	360.1	358.7	345.9
72.5°	283.3	1597.1	3137.2	3493.1	3310.9	1474.7	257.6	240.6	246.3	240.6
75°	169.4	347.3	528.1	686.1	528.1	247.7	155.2	152.3	155.2	148.0
77.5°	99.6	96.8	93.9	93.9	92.5	85.4	78.3	75.4	76.9	78.3
80°	64.1	61.2	58.4	56.9	49.8	47.0	44.1	41.3	41.3	42.7
82.5°	41.3	38.4	35.6	31.3	25.6	21.4	19.9	17.1	17.1	18.5
85°	21.4	17.1	12.8	10.0	5.7	2.8	0.0	0.0	0.0	0.0
87.5°	4.3	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)