

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: P637270

Luminaire Tested: GWS-SA4C-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637270
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15109.6 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

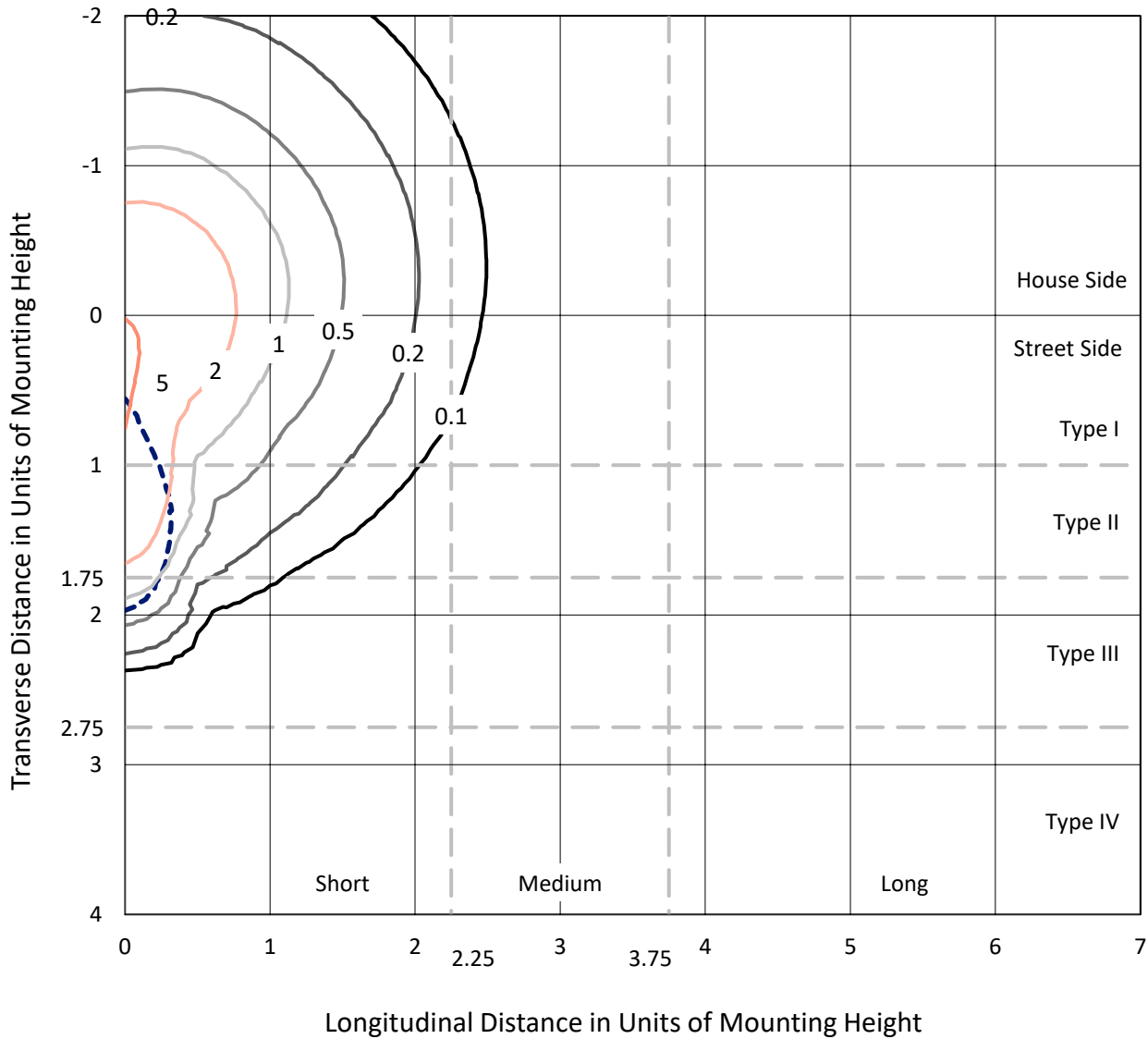
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

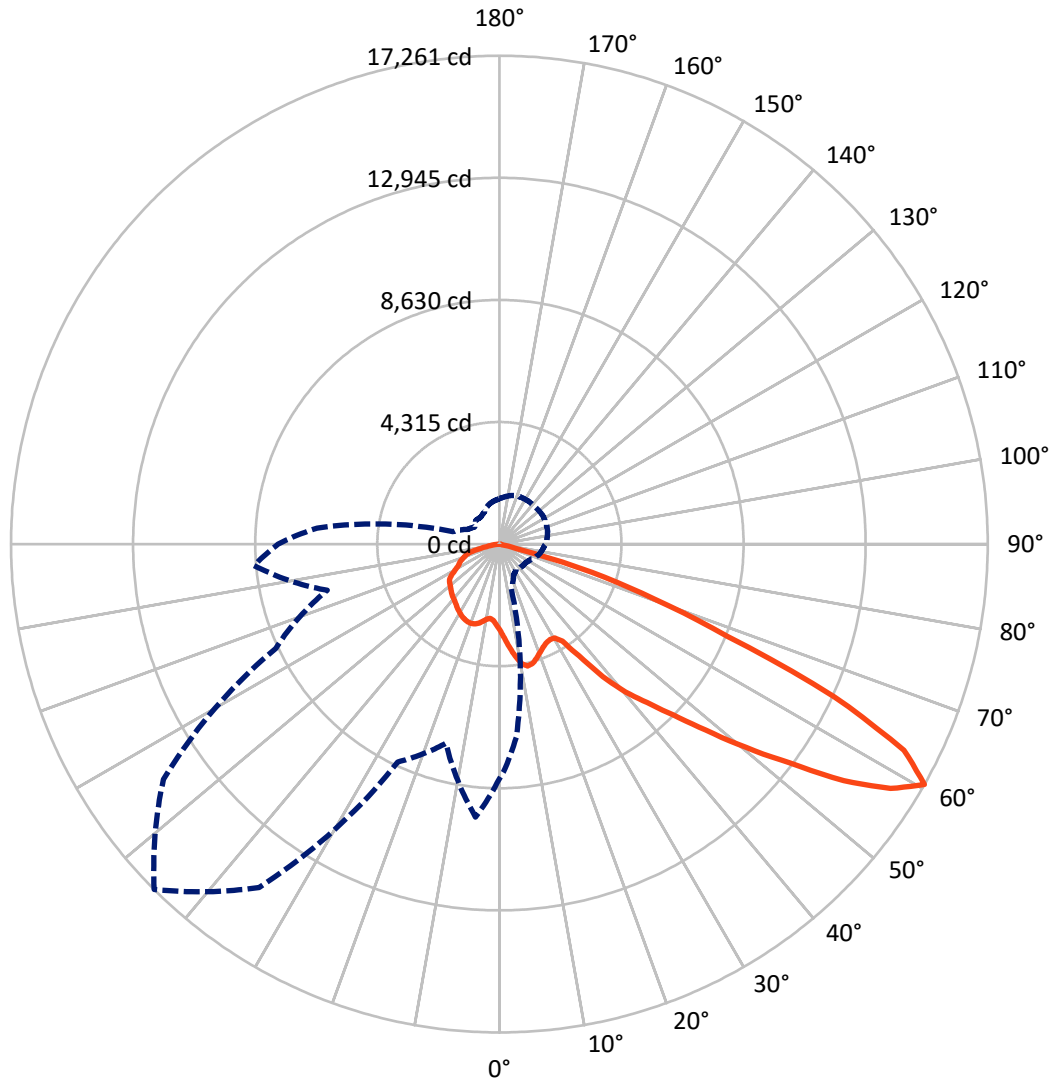
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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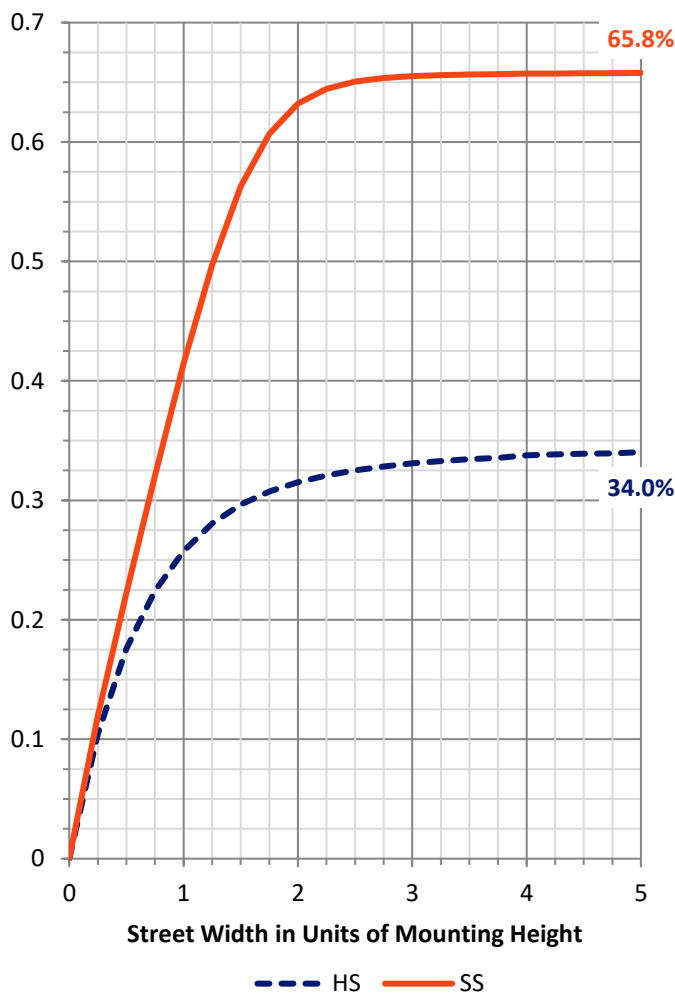
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5168.9	0.0	5168.9
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	9940.7	0.0	9940.7
	% Fixture	65.8	0.0	65.8
Total	Lumens	15109.6	0.0	15109.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	2.0
10°-20°	955.0	6.3
20°-30°	1555.3	10.3
30°-40°	2184.8	14.5
40°-50°	2989.7	19.8
50°-60°	3835.6	25.4
60°-70°	2582.8	17.1
70°-80°	645.7	4.3
80°-90°	62.9	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°	15109.6	100.0
0°-180°	15109.6	100.0

Coefficient of Utilization



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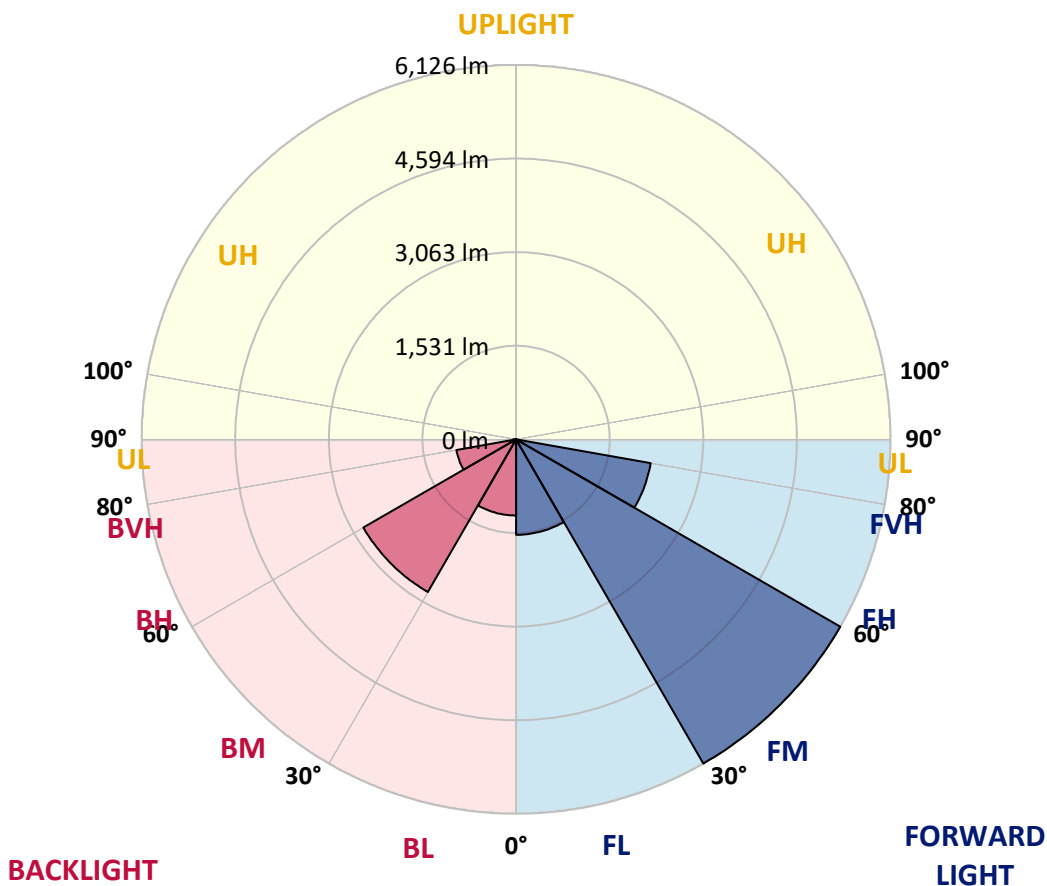
CATALOG NUMBER: GWS-SA4C-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.0	10.3			
FM (30°-60°)	6125.6	40.5			
FH (60°-80°)	2236.8	14.8			G2/5000
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1246.0	8.2	B3/2500		
BM (30°-60°)	2884.6	19.1	B3/5000		
BH (60°-80°)	991.6	6.6	B2/1000		G2/1000
BVH (80°-90°)	46.6	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°	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4
2.5°	3224.2	3217.2	3210.3	3156.0	3142.1	3103.1	3075.3	3040.5	2990.4	2962.6	2938.9
5°	3425.9	3414.8	3377.2	3265.9	3193.6	3114.2	3048.8	2976.5	2899.9	2849.8	2810.9
7.5°	3616.6	3613.8	3549.8	3366.1	3249.2	3135.1	3046.1	2940.3	2830.4	2755.2	2705.1
10°	3793.3	3772.4	3695.9	3456.6	3303.5	3172.7	3076.7	2959.8	2831.8	2730.2	2663.4
12.5°	3949.2	3922.7	3817.0	3540.0	3350.8	3189.4	3085.0	2989.0	2904.1	2819.2	2742.7
15°	4077.2	4045.2	3938.0	3618.0	3392.5	3179.6	3033.5	2958.4	2987.6	3025.2	2940.3
17.5°	4196.8	4163.5	4032.6	3675.0	3405.1	3119.8	2906.9	2874.9	3022.4	3193.6	3154.6
20°	4297.0	4259.5	4107.8	3702.9	3382.8	3005.7	2742.7	2798.4	2993.2	3197.7	3260.3
22.5°	4405.6	4375.0	4192.7	3743.2	3355.0	2848.5	2604.9	2741.3	2943.1	3122.6	3217.2
25°	4579.5	4541.9	4324.9	3814.2	3341.1	2701.0	2506.1	2685.6	2873.5	3036.3	3110.1
27.5°	4831.4	4761.8	4505.8	3938.0	3356.4	2561.8	2443.5	2617.5	2792.8	2931.9	2991.8
30°	5105.5	5022.0	4706.1	4066.0	3378.6	2476.9	2410.1	2539.5	2669.0	2808.1	2873.5
32.5°	5429.7	5356.0	4920.4	4162.1	3331.3	2438.0	2385.1	2454.7	2557.6	2669.0	2723.2
35°	5816.6	5684.4	5154.2	4240.0	3178.2	2380.9	2362.8	2361.4	2415.7	2524.2	2585.5
37.5°	6232.7	6090.7	5442.3	4323.5	2940.3	2290.5	2309.9	2251.5	2301.6	2387.9	2457.4
40°	6573.6	6424.7	5733.1	4437.6	2642.5	2148.5	2193.0	2130.4	2161.0	2250.1	2328.0
42.5°	6907.5	6748.9	6004.4	4567.0	2354.5	2009.4	2031.6	2008.0	2017.7	2110.9	2219.5
45°	7345.9	7167.8	6338.4	4658.8	2095.6	1899.4	1878.6	1838.2	1889.7	2010.8	2126.3
47.5°	8077.8	7864.9	6885.3	4718.7	1907.8	1836.8	1740.8	1717.1	1781.2	1916.1	2035.8
50°	8933.6	8749.9	7759.2	4715.9	1767.2	1783.9	1607.2	1586.3	1692.1	1828.5	1955.1
52.5°	9634.9	9448.5	8506.4	4576.7	1651.7	1671.2	1529.3	1470.8	1615.6	1742.2	1868.8
55°	10201.3	9991.2	8850.1	3995.1	1505.6	1491.7	1444.4	1337.3	1519.5	1655.9	1774.2
57.5°	9896.5	9646.1	8434.0	3037.7	1355.3	1267.7	1298.3	1219.0	1388.7	1559.9	1674.0
60°	8297.7	8072.3	6851.9	1617.0	1192.5	1059.0	1123.0	1135.5	1245.4	1444.4	1561.3
62.5°	5699.7	5535.5	4643.5	981.0	940.7	850.2	950.4	1040.9	1123.0	1291.3	1392.9
65°	2788.6	2739.9	2322.5	629.0	658.2	687.4	787.6	897.5	1018.6	1166.1	1273.2
67.5°	768.1	773.7	704.1	491.2	519.0	599.7	679.1	766.7	887.8	1024.2	1132.7
70°	338.1	343.7	354.8	378.5	431.4	505.1	587.2	677.7	789.0	903.1	1007.5
72.5°	235.2	240.7	257.4	288.0	335.4	404.9	482.9	569.1	684.6	780.6	866.9
75°	144.7	148.9	164.2	190.6	222.6	275.5	352.1	431.4	533.0	620.6	697.2
77.5°	76.5	73.8	83.5	101.6	129.4	157.2	208.7	258.8	331.2	402.2	466.2
80°	41.7	40.4	45.9	55.7	64.0	86.3	121.1	154.5	196.2	236.6	271.3
82.5°	18.1	16.7	18.1	23.7	29.2	41.7	61.2	84.9	108.5	136.4	158.6
85°	0.0	0.0	0.0	1.4	7.0	11.1	20.9	30.6	44.5	61.2	75.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	12.5
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°	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4
2.5°	2925.0	2890.2	2887.4	2859.6	2862.4	2863.8	2835.9	2824.8	2834.5	2845.7	2840.1
5°	2797.0	2760.8	2745.5	2719.0	2716.3	2703.7	2692.6	2678.7	2688.4	2698.2	2703.7
7.5°	2685.6	2662.0	2652.3	2645.3	2648.1	2642.5	2620.2	2607.7	2606.3	2610.5	2616.1
10°	2649.5	2630.0	2642.5	2662.0	2675.9	2685.6	2662.0	2641.1	2621.6	2613.3	2613.3
12.5°	2727.4	2702.3	2727.4	2748.3	2776.1	2783.1	2756.6	2734.4	2727.4	2735.7	2752.4
15°	2899.9	2841.5	2840.1	2852.6	2874.9	2886.0	2861.0	2849.8	2849.8	2902.7	2944.5
17.5°	3072.5	2976.5	2936.1	2929.2	2943.1	2947.3	2926.4	2916.6	2941.7	3044.7	3122.6
20°	3193.6	3076.7	2989.0	2972.3	2976.5	2977.9	2961.2	2954.2	2990.4	3115.6	3181.0
22.5°	3181.0	3094.8	2987.6	2966.7	2973.7	2970.9	2955.6	2952.8	2982.0	3090.6	3121.2
25°	3094.8	3028.0	2937.5	2923.6	2934.7	2933.3	2918.0	2911.1	2923.6	2996.0	2998.7
27.5°	2996.0	2937.5	2859.6	2855.4	2873.5	2883.2	2856.8	2835.9	2831.8	2880.5	2869.3
30°	2877.7	2834.5	2771.9	2774.7	2808.1	2813.7	2781.7	2751.1	2742.7	2769.1	2753.8
32.5°	2737.1	2723.2	2689.8	2696.8	2728.8	2739.9	2706.5	2674.5	2664.8	2673.1	2641.1
35°	2617.5	2611.9	2614.7	2627.2	2655.0	2663.4	2635.6	2610.5	2596.6	2567.4	2525.6
37.5°	2493.6	2508.9	2549.3	2572.9	2588.2	2585.5	2570.2	2552.1	2529.8	2475.5	2424.0
40°	2378.1	2417.1	2489.4	2515.9	2521.4	2522.8	2511.7	2496.4	2468.6	2396.2	2337.8
42.5°	2289.1	2332.2	2428.2	2468.6	2471.4	2474.1	2463.0	2450.5	2411.5	2315.5	2258.4
45°	2195.8	2252.9	2365.6	2414.3	2411.5	2410.1	2400.4	2394.8	2348.9	2237.6	2175.0
47.5°	2116.5	2183.3	2304.4	2346.1	2344.7	2343.3	2336.4	2336.4	2290.5	2169.4	2098.4
50°	2038.6	2115.1	2241.8	2276.5	2279.3	2276.5	2273.8	2277.9	2223.7	2094.2	2024.7
52.5°	1953.7	2040.0	2172.2	2204.2	2220.9	2227.8	2227.8	2218.1	2154.1	2019.1	1942.6
55°	1860.5	1942.6	2095.6	2138.8	2152.7	2165.2	2165.2	2145.7	2085.9	1949.5	1867.4
57.5°	1745.0	1817.3	1938.4	1981.5	2014.9	2023.3	2023.3	1991.3	1942.6	1811.8	1745.0
60°	1619.7	1682.4	1764.5	1810.4	1835.4	1818.7	1831.3	1822.9	1783.9	1662.9	1607.2
62.5°	1452.8	1516.8	1607.2	1654.5	1665.7	1649.0	1665.7	1664.3	1611.4	1502.8	1436.1
65°	1333.1	1395.7	1484.8	1546.0	1564.1	1559.9	1571.0	1554.3	1488.9	1386.0	1322.0
67.5°	1191.1	1257.9	1360.9	1429.1	1466.7	1470.8	1486.2	1451.4	1384.6	1271.9	1191.1
70°	1056.2	1113.2	1192.5	1256.5	1309.4	1335.9	1338.6	1288.6	1205.1	1111.8	1053.4
72.5°	914.2	972.7	1068.7	1138.3	1205.1	1235.7	1235.7	1174.4	1084.0	981.0	918.4
75°	741.7	796.0	883.6	958.8	1035.3	1074.3	1072.9	1020.0	919.8	822.4	757.0
77.5°	502.3	542.7	598.4	655.4	666.5	697.2	712.5	645.7	590.0	537.1	478.7
80°	292.2	317.3	347.9	379.9	386.8	396.6	371.5	346.5	317.3	282.5	256.0
82.5°	171.2	187.9	203.2	228.2	232.4	235.2	212.9	201.8	178.1	157.2	140.5
85°	83.5	89.1	103.0	115.5	109.9	107.1	97.4	86.3	76.5	68.2	59.8
87.5°	16.7	16.7	25.0	23.7	19.5	16.7	9.7	12.5	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4
2.5°	2858.2	2881.9	2911.1	2950.0	2994.6	3041.9	3087.8	3122.6	3157.4	3208.9	3200.5
5°	2712.1	2752.4	2798.4	2858.2	2930.6	3012.7	3104.5	3196.3	3295.1	3378.6	3414.8
7.5°	2627.2	2671.7	2726.0	2803.9	2897.2	2997.4	3126.8	3275.7	3435.7	3545.6	3613.8
10°	2627.2	2684.3	2755.2	2830.4	2912.5	3015.4	3175.5	3361.9	3567.9	3712.6	3791.9
12.5°	2778.9	2835.9	2851.2	2848.5	2894.4	3008.5	3214.4	3452.4	3698.7	3851.7	3949.2
15°	3015.4	3034.9	2919.4	2813.7	2820.6	2958.4	3232.5	3524.7	3811.4	3995.1	4100.8
17.5°	3174.1	3122.6	2916.6	2731.6	2692.6	2873.5	3232.5	3594.3	3931.1	4138.4	4237.2
20°	3186.6	3058.6	2845.7	2652.3	2552.1	2760.8	3210.3	3647.2	4046.6	4276.2	4381.9
22.5°	3076.7	2950.0	2770.5	2584.1	2436.6	2624.4	3174.1	3687.5	4145.4	4405.6	4536.4
25°	2951.4	2845.7	2694.0	2514.5	2357.2	2486.7	3140.7	3755.7	4283.1	4580.9	4713.1
27.5°	2829.0	2739.9	2602.2	2456.0	2312.7	2367.0	3119.8	3855.9	4447.3	4830.0	4944.1
30°	2709.3	2628.6	2503.4	2400.4	2289.1	2289.1	3101.7	3971.4	4664.4	5109.7	5223.8
32.5°	2588.2	2511.7	2410.1	2346.1	2275.1	2258.4	3051.6	4080.0	4888.4	5415.8	5532.7
35°	2475.5	2399.0	2321.1	2294.6	2268.2	2234.8	2927.8	4164.8	5106.9	5773.4	5873.6
37.5°	2369.8	2296.0	2237.6	2230.6	2233.4	2170.8	2733.0	4235.8	5379.6	6139.4	6192.3
40°	2277.9	2195.8	2149.9	2148.5	2162.4	2067.8	2486.7	4337.4	5691.3	6449.7	6427.5
42.5°	2195.8	2109.6	2053.9	2066.4	2058.1	1964.8	2245.9	4430.6	5962.7	6740.6	6696.0
45°	2115.1	2031.6	1953.7	1971.8	1962.1	1900.8	2041.4	4498.8	6263.3	7089.8	7095.4
47.5°	2037.2	1955.1	1877.2	1854.9	1853.5	1881.3	1884.1	4521.1	6753.1	7652.0	7525.4
50°	1964.8	1882.7	1802.0	1726.9	1756.1	1842.4	1767.2	4504.4	7486.4	8272.6	7919.2
52.5°	1889.7	1811.8	1722.7	1587.7	1664.3	1749.2	1662.9	4444.5	7934.5	8820.9	8609.4
55°	1803.4	1729.7	1608.6	1444.4	1537.6	1555.7	1555.7	3865.7	8125.1	9363.6	9494.4
57.5°	1687.9	1590.5	1398.5	1266.3	1349.8	1280.2	1441.6	2705.1	7810.6	9192.4	9700.3
60°	1557.1	1452.8	1249.6	1155.0	1180.0	1057.6	1228.7	1696.3	6473.4	7821.8	8701.2
62.5°	1384.6	1288.6	1120.2	1046.4	994.9	862.7	989.4	1072.9	4437.6	5808.2	6408.0
65°	1269.1	1163.3	1013.0	915.6	809.9	694.4	656.8	704.1	2386.5	3250.6	3655.5
67.5°	1132.7	1028.3	886.4	763.9	679.1	595.6	530.2	513.5	818.2	1082.6	1171.7
70°	1003.3	903.1	784.8	670.7	585.8	503.7	439.7	393.8	378.5	375.7	370.1
72.5°	871.1	777.9	679.1	573.3	480.1	404.9	347.9	295.0	272.7	265.8	258.8
75°	713.9	640.1	541.3	427.2	352.1	282.5	238.0	203.2	183.7	176.7	168.4
77.5°	459.2	425.8	339.5	275.5	212.9	168.4	144.7	122.5	109.9	107.1	100.2
80°	244.9	228.2	187.9	158.6	126.6	103.0	90.4	77.9	71.0	68.2	65.4
82.5°	136.4	123.8	104.4	91.8	73.8	62.6	55.7	50.1	45.9	44.5	43.1
85°	61.2	52.9	41.7	39.0	34.8	32.0	30.6	27.8	26.4	25.0	23.7
87.5°	2.8	5.6	7.0	5.6	5.6	8.3	9.7	9.7	8.3	8.3	7.0
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: P637270

CATALOG NUMBER: GWS-SA4C-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4	3047.4
2.5°	3252.0	3293.7	3297.9	3311.8	3293.7	3289.6	3260.3	3243.7	3228.3	3224.2
5°	3505.3	3588.8	3622.1	3645.8	3623.5	3612.4	3548.4	3481.6	3444.0	3425.9
7.5°	3765.5	3890.7	3956.1	3985.3	3988.1	3938.0	3828.1	3702.9	3640.2	3616.6
10°	3997.9	4152.3	4238.6	4294.3	4274.8	4213.5	4063.3	3893.5	3814.2	3793.3
12.5°	4170.4	4317.9	4384.7	4420.9	4419.5	4386.1	4244.2	4060.5	3970.0	3949.2
15°	4281.7	4369.4	4373.6	4381.9	4405.6	4450.1	4376.4	4206.6	4106.4	4077.2
17.5°	4369.4	4334.6	4269.2	4246.9	4299.8	4423.7	4468.2	4330.4	4221.9	4196.8
20°	4425.1	4249.7	4134.2	4091.1	4152.3	4354.1	4523.9	4441.8	4329.0	4297.0
22.5°	4468.2	4170.4	3983.9	3954.7	4018.7	4278.9	4580.9	4574.0	4450.1	4405.6
25°	4536.4	4117.5	3878.2	3857.3	3917.2	4242.8	4657.4	4753.5	4643.5	4579.5
27.5°	4643.5	4112.0	3823.9	3817.0	3899.1	4274.8	4767.4	5016.5	4878.7	4831.4
30°	4792.4	4164.8	3836.4	3850.4	3950.5	4390.3	4938.5	5317.0	5179.3	5105.5
32.5°	5006.7	4306.8	4027.1	4086.9	4160.7	4575.3	5189.0	5642.6	5538.3	5429.7
35°	5289.2	4696.4	4590.6	4845.3	4775.7	4980.3	5491.0	6037.8	5911.2	5816.6
37.5°	5666.3	5495.1	5592.5	5943.2	5774.8	5745.6	5859.7	6396.9	6327.3	6232.7
40°	6195.1	6229.9	6409.4	6870.0	6626.5	6438.6	6312.0	6666.8	6690.5	6573.6
42.5°	6545.7	6705.8	7138.5	7661.8	7326.4	6876.9	6690.5	7011.9	7013.3	6907.5
45°	6676.6	7095.4	7999.9	8602.4	8041.6	7127.4	6899.2	7480.9	7466.9	7345.9
47.5°	6629.2	7423.8	8894.6	9815.8	8960.0	7305.5	6870.0	8148.8	8261.5	8077.8
50°	6530.4	7753.6	9939.7	11302.0	10087.2	7494.8	6825.4	8889.1	9075.5	8933.6
52.5°	6630.6	8121.0	11175.4	12838.2	11501.0	7796.7	7126.0	9839.5	9806.1	9634.9
55°	6947.9	8555.1	12676.8	14768.3	13053.9	8307.4	7898.3	10745.4	10405.8	10201.3
57.5°	6932.6	8865.4	13993.2	16294.8	14405.1	8726.3	8166.9	10841.4	10155.4	9896.5
60°	6292.5	8723.5	14494.2	17260.5	14812.8	8495.3	7283.3	9683.6	8569.0	8297.7
62.5°	4696.4	7741.1	13522.9	16051.3	13659.2	7337.5	5477.1	6950.7	6157.5	5699.7
65°	3004.3	6055.9	11368.8	13003.8	11258.9	5612.0	3261.7	3726.5	2919.4	2788.6
67.5°	1278.8	4274.8	8837.6	8691.5	8422.9	3636.1	1259.3	1049.2	782.0	768.1
70°	423.0	2908.3	5447.8	5797.1	5030.4	2504.7	416.1	352.1	350.7	338.1
72.5°	276.9	1561.3	3066.9	3414.8	3236.7	1441.6	251.9	235.2	240.7	235.2
75°	165.6	339.5	516.3	670.7	516.3	242.1	151.7	148.9	151.7	144.7
77.5°	97.4	94.6	91.8	91.8	90.4	83.5	76.5	73.8	75.1	76.5
80°	62.6	59.8	57.1	55.7	48.7	45.9	43.1	40.4	40.4	41.7
82.5°	40.4	37.6	34.8	30.6	25.0	20.9	19.5	16.7	16.7	18.1
85°	20.9	16.7	12.5	9.7	5.6	2.8	0.0	0.0	0.0	0.0
87.5°	4.2	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)