

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: P637215

Luminaire Tested: GWS-SA4C-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637215
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14902.5 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

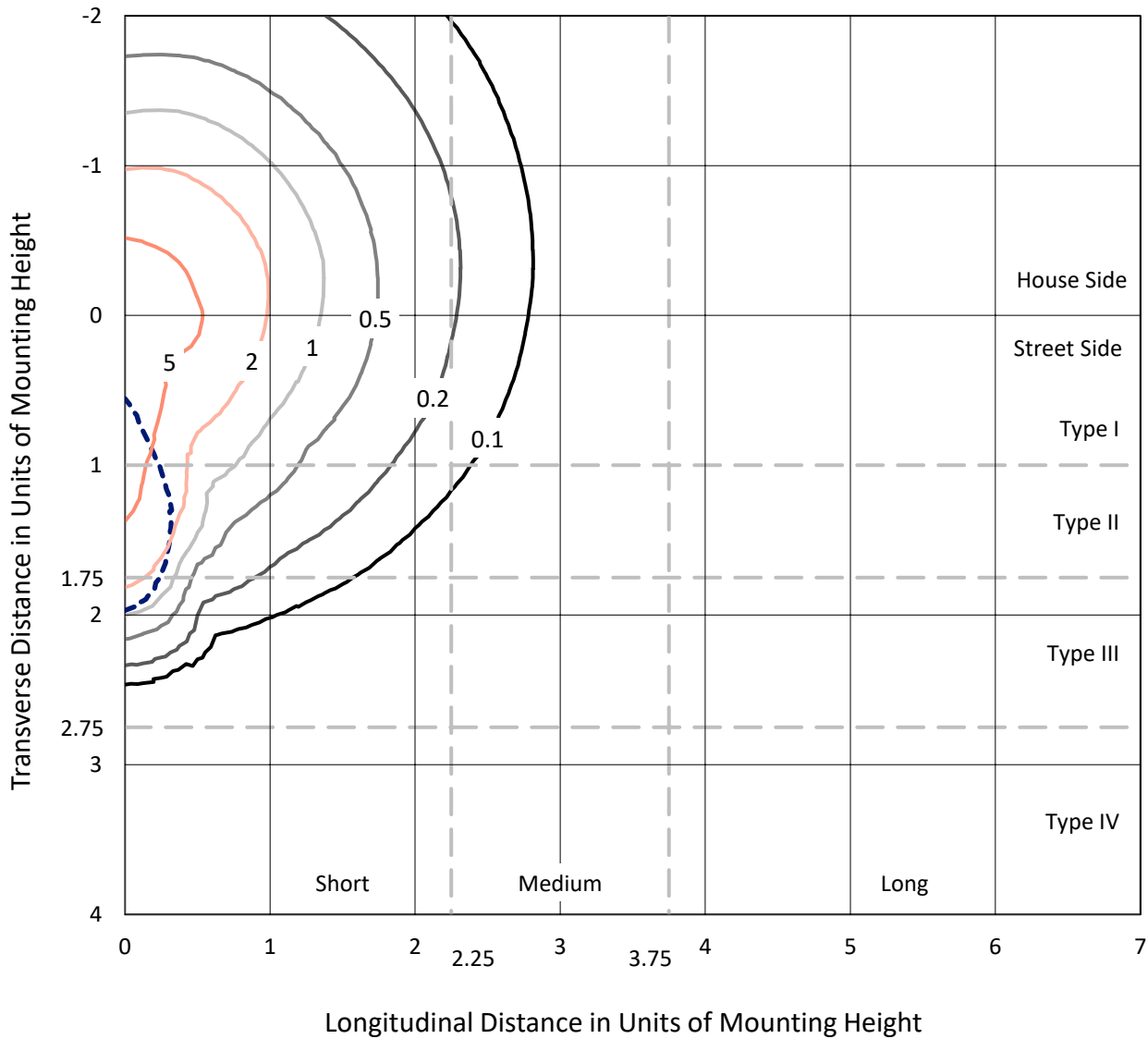
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

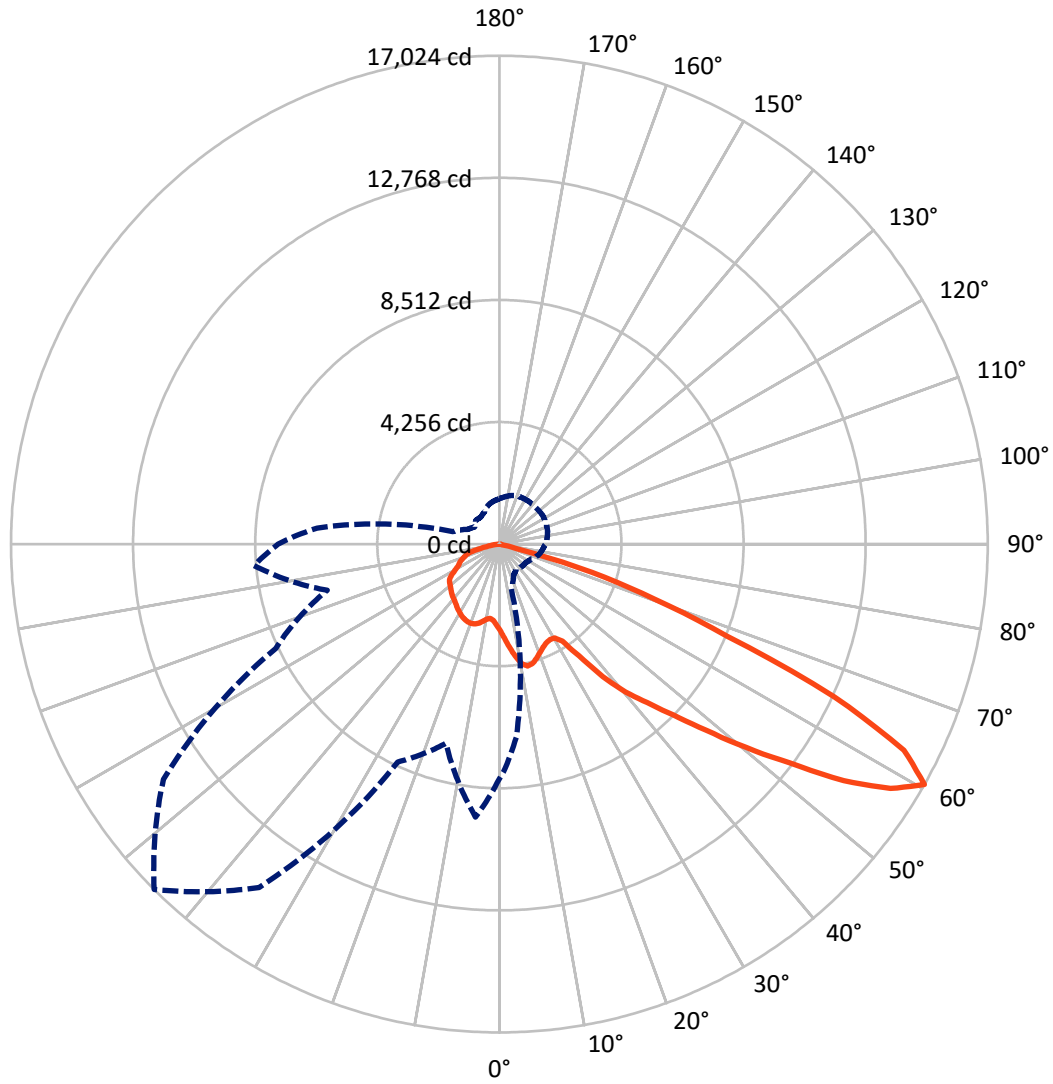
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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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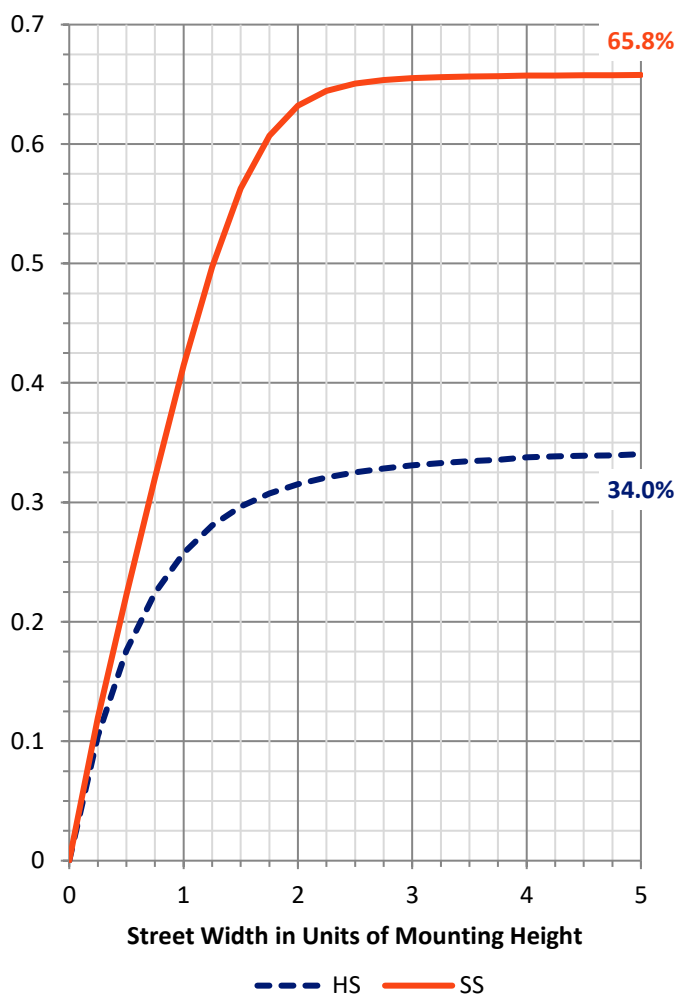
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5098.0	0.0	5098.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	9804.5	0.0	9804.5
	% Fixture	65.8	0.0	65.8
Total	Lumens	14902.5	0.0	14902.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	2.0
10°-20°	941.9	6.3
20°-30°	1534.0	10.3
30°-40°	2154.9	14.5
40°-50°	2948.7	19.8
50°-60°	3783.1	25.4
60°-70°	2547.4	17.1
70°-80°	636.8	4.3
80°-90°	62.1	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°	14902.5	100.0
0°-180°	14902.5	100.0

Coefficient of Utilization



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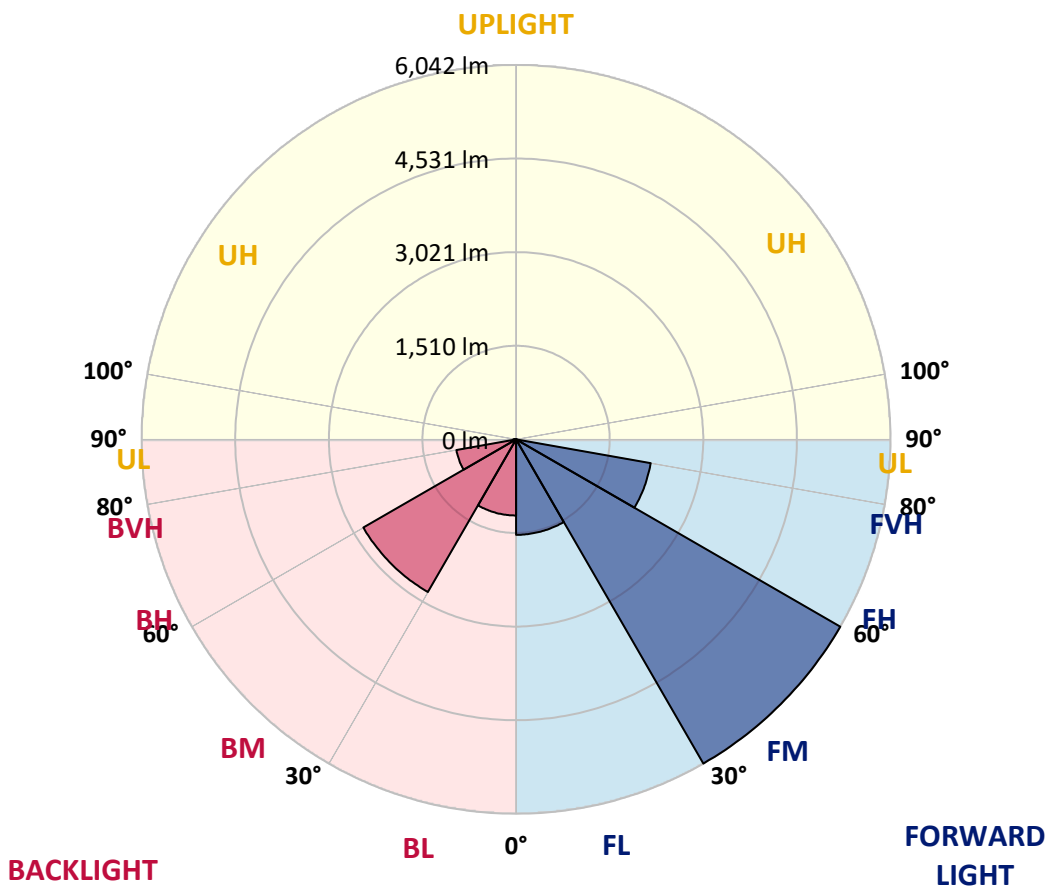
CATALOG NUMBER: GWS-SA4C-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.6	10.3			
FM (30°-60°)	6041.6	40.5			
FH (60°-80°)	2206.2	14.8			G2/5000
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1228.9	8.2	B3/2500		
BM (30°-60°)	2845.1	19.1	B3/5000		
BH (60°-80°)	978.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	46.0	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°	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7
2.5°	3180.0	3173.1	3166.3	3112.7	3099.0	3060.6	3033.1	2998.8	2949.4	2922.0	2898.6
5°	3379.0	3368.0	3330.9	3221.2	3149.8	3071.6	3007.0	2935.7	2860.2	2810.8	2772.4
7.5°	3567.0	3564.3	3501.1	3320.0	3204.7	3092.1	3004.3	2900.0	2791.6	2717.5	2668.1
10°	3741.3	3720.7	3645.2	3409.2	3258.2	3129.2	3034.5	2919.2	2792.9	2692.8	2626.9
12.5°	3895.0	3868.9	3764.6	3491.5	3304.9	3145.7	3042.7	2948.0	2864.3	2780.6	2705.1
15°	4021.3	3989.7	3884.0	3568.4	3346.0	3136.1	2992.0	2917.8	2946.7	2983.7	2900.0
17.5°	4139.3	4106.4	3977.4	3624.7	3358.4	3077.0	2867.1	2835.5	2981.0	3149.8	3111.4
20°	4238.1	4201.1	4051.5	3652.1	3336.4	2964.5	2705.1	2760.0	2952.2	3153.9	3215.7
22.5°	4345.2	4315.0	4135.2	3691.9	3309.0	2809.4	2569.2	2703.7	2902.7	3079.8	3173.1
25°	4516.7	4479.7	4265.6	3761.9	3295.3	2663.9	2471.8	2648.8	2834.1	2994.7	3067.4
27.5°	4765.2	4696.5	4444.0	3884.0	3310.4	2526.7	2410.0	2581.6	2754.5	2891.8	2950.8
30°	5035.5	4953.2	4641.6	4010.3	3332.3	2443.0	2377.1	2504.7	2632.4	2769.6	2834.1
32.5°	5355.3	5282.6	4853.0	4105.0	3285.7	2404.5	2352.4	2421.0	2522.6	2632.4	2685.9
35°	5736.9	5606.5	5083.6	4181.9	3134.7	2348.3	2330.4	2329.1	2382.6	2489.6	2550.0
37.5°	6147.2	6007.2	5367.7	4264.2	2900.0	2259.1	2278.3	2220.6	2270.0	2355.1	2423.8
40°	6483.5	6336.6	5654.5	4376.8	2606.3	2119.1	2163.0	2101.2	2131.4	2219.3	2296.1
42.5°	6812.9	6656.4	5922.1	4504.4	2322.2	1981.8	2003.8	1980.5	1990.1	2082.0	2189.1
45°	7245.2	7069.5	6251.5	4595.0	2066.9	1873.4	1852.8	1813.0	1863.8	1983.2	2097.1
47.5°	7967.1	7757.1	6790.9	4654.0	1881.6	1811.6	1716.9	1693.6	1756.7	1889.9	2007.9
50°	8811.2	8630.0	7652.8	4651.2	1743.0	1759.5	1585.2	1564.6	1668.9	1803.4	1928.3
52.5°	9502.9	9319.0	8389.8	4514.0	1629.1	1648.3	1508.3	1450.7	1593.4	1718.3	1843.2
55°	10061.5	9854.2	8728.8	3940.3	1485.0	1471.3	1424.6	1318.9	1498.7	1633.2	1749.9
57.5°	9760.9	9513.9	8318.4	2996.1	1336.8	1250.3	1280.5	1202.3	1369.7	1538.5	1651.1
60°	8183.9	7961.6	6758.0	1594.8	1176.2	1044.4	1107.6	1119.9	1228.3	1424.6	1539.9
62.5°	5621.6	5459.6	4579.9	967.6	927.8	838.6	937.4	1026.6	1107.6	1273.6	1373.8
65°	2750.4	2702.4	2290.6	620.3	649.2	678.0	776.8	885.2	1004.6	1150.1	1255.8
67.5°	757.6	763.1	694.5	484.5	511.9	591.5	669.8	756.2	875.6	1010.1	1117.2
70°	333.5	339.0	350.0	373.3	425.5	498.2	579.2	668.4	778.2	890.7	993.7
72.5°	231.9	237.4	253.9	284.1	330.8	399.4	476.2	561.3	675.2	769.9	855.0
75°	142.7	146.9	161.9	188.0	219.6	271.7	347.2	425.5	525.7	612.1	687.6
77.5°	75.5	72.7	82.3	100.2	127.6	155.1	205.9	255.3	326.6	396.6	459.8
80°	41.2	39.8	45.3	54.9	63.1	85.1	119.4	152.3	193.5	233.3	267.6
82.5°	17.8	16.5	17.8	23.3	28.8	41.2	60.4	83.7	107.1	134.5	156.5
85°	0.0	0.0	0.0	1.4	6.9	11.0	20.6	30.2	43.9	60.4	74.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	12.4
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°	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7
2.5°	2884.9	2850.6	2847.8	2820.4	2823.1	2824.5	2797.1	2786.1	2795.7	2806.7	2801.2
5°	2758.6	2723.0	2707.9	2681.8	2679.0	2666.7	2655.7	2642.0	2651.6	2661.2	2666.7
7.5°	2648.8	2625.5	2615.9	2609.0	2611.8	2606.3	2584.3	2572.0	2570.6	2574.7	2580.2
10°	2613.2	2593.9	2606.3	2625.5	2639.2	2648.8	2625.5	2604.9	2585.7	2577.5	2577.5
12.5°	2690.0	2665.3	2690.0	2710.6	2738.0	2744.9	2718.8	2696.9	2690.0	2698.2	2714.7
15°	2860.2	2802.6	2801.2	2813.5	2835.5	2846.5	2821.8	2810.8	2810.8	2862.9	2904.1
17.5°	3030.4	2935.7	2895.9	2889.0	2902.7	2906.9	2886.3	2876.7	2901.4	3002.9	3079.8
20°	3149.8	3034.5	2948.0	2931.6	2935.7	2937.1	2920.6	2913.7	2949.4	3072.9	3137.4
22.5°	3137.4	3052.3	2946.7	2926.1	2932.9	2930.2	2915.1	2912.3	2941.2	3048.2	3078.4
25°	3052.3	2986.5	2897.3	2883.5	2894.5	2893.1	2878.0	2871.2	2883.5	2954.9	2957.6
27.5°	2954.9	2897.3	2820.4	2816.3	2834.1	2843.7	2817.6	2797.1	2792.9	2841.0	2830.0
30°	2838.2	2795.7	2733.9	2736.7	2769.6	2775.1	2743.5	2713.3	2705.1	2731.2	2716.1
32.5°	2699.6	2685.9	2653.0	2659.8	2691.4	2702.4	2669.4	2637.9	2628.3	2636.5	2604.9
35°	2581.6	2576.1	2578.8	2591.2	2618.6	2626.9	2599.4	2574.7	2561.0	2532.2	2491.0
37.5°	2459.4	2474.5	2514.3	2537.7	2552.8	2550.0	2534.9	2517.1	2495.1	2441.6	2390.8
40°	2345.5	2384.0	2455.3	2481.4	2486.9	2488.3	2477.3	2462.2	2434.7	2363.4	2305.7
42.5°	2257.7	2300.2	2394.9	2434.7	2437.5	2440.2	2429.2	2416.9	2378.5	2283.8	2227.5
45°	2165.7	2222.0	2333.2	2381.2	2378.5	2377.1	2367.5	2362.0	2316.7	2206.9	2145.1
47.5°	2087.5	2153.4	2272.8	2314.0	2312.6	2311.2	2304.4	2304.4	2259.1	2139.7	2069.7
50°	2010.6	2086.1	2211.0	2245.3	2248.1	2245.3	2242.6	2246.7	2193.2	2065.5	1996.9
52.5°	1926.9	2012.0	2142.4	2174.0	2190.4	2197.3	2197.3	2187.7	2124.6	1991.4	1915.9
55°	1835.0	1915.9	2066.9	2109.5	2123.2	2135.5	2135.5	2116.3	2057.3	1922.8	1841.8
57.5°	1721.1	1792.4	1911.8	1954.4	1987.3	1995.5	1995.5	1964.0	1915.9	1786.9	1721.1
60°	1597.5	1659.3	1740.3	1785.6	1810.3	1793.8	1806.2	1797.9	1759.5	1640.1	1585.2
62.5°	1432.8	1496.0	1585.2	1631.8	1642.8	1626.4	1642.8	1641.5	1589.3	1482.3	1416.4
65°	1314.8	1376.6	1464.4	1524.8	1542.6	1538.5	1549.5	1533.0	1468.5	1367.0	1303.8
67.5°	1174.8	1240.7	1342.3	1409.5	1446.6	1450.7	1465.8	1431.5	1365.6	1254.4	1174.8
70°	1041.7	1098.0	1176.2	1239.3	1291.5	1317.6	1320.3	1270.9	1188.5	1096.6	1038.9
72.5°	901.7	959.3	1054.0	1122.7	1188.5	1218.7	1218.7	1158.4	1069.1	967.6	905.8
75°	731.5	785.0	871.5	945.6	1021.1	1059.5	1058.2	1006.0	907.2	811.1	746.6
77.5°	495.5	535.3	590.2	646.4	657.4	687.6	702.7	636.8	581.9	529.8	472.1
80°	288.2	312.9	343.1	374.7	381.5	391.1	366.4	341.7	312.9	278.6	252.5
82.5°	168.8	185.3	200.4	225.1	229.2	231.9	210.0	199.0	175.7	155.1	138.6
85°	82.3	87.8	101.6	113.9	108.4	105.7	96.1	85.1	75.5	67.3	59.0
87.5°	16.5	16.5	24.7	23.3	19.2	16.5	9.6	12.4	2.7	2.7	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°	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7
2.5°	2819.0	2842.4	2871.2	2909.6	2953.5	3000.2	3045.5	3079.8	3114.1	3164.9	3156.6
5°	2674.9	2714.7	2760.0	2819.0	2890.4	2971.4	3061.9	3152.5	3250.0	3332.3	3368.0
7.5°	2591.2	2635.1	2688.6	2765.5	2857.5	2956.3	3083.9	3230.8	3388.6	3497.0	3564.3
10°	2591.2	2647.5	2717.5	2791.6	2872.5	2974.1	3131.9	3315.9	3519.0	3661.7	3739.9
12.5°	2740.8	2797.1	2812.2	2809.4	2854.7	2967.2	3170.4	3405.1	3648.0	3799.0	3895.0
15°	2974.1	2993.3	2879.4	2775.1	2782.0	2917.8	3188.2	3476.4	3759.2	3940.3	4044.6
17.5°	3130.6	3079.8	2876.7	2694.1	2655.7	2834.1	3188.2	3545.1	3877.2	4081.7	4179.1
20°	3142.9	3016.7	2806.7	2615.9	2517.1	2723.0	3166.3	3597.2	3991.1	4217.6	4321.9
22.5°	3034.5	2909.6	2732.6	2548.6	2403.2	2588.4	3130.6	3637.0	4088.5	4345.2	4474.2
25°	2911.0	2806.7	2657.1	2480.0	2324.9	2452.6	3097.6	3704.3	4224.4	4518.1	4648.5
27.5°	2790.2	2702.4	2566.5	2422.4	2281.0	2334.5	3077.0	3803.1	4386.4	4763.8	4876.3
30°	2672.2	2592.6	2469.0	2367.5	2257.7	2257.7	3059.2	3917.0	4600.5	5039.7	5152.2
32.5°	2552.8	2477.3	2377.1	2314.0	2244.0	2227.5	3009.8	4024.0	4821.4	5341.6	5456.9
35°	2441.6	2366.1	2289.3	2263.2	2237.1	2204.2	2887.6	4107.8	5036.9	5694.3	5793.1
37.5°	2337.3	2264.6	2206.9	2200.0	2202.8	2141.0	2695.5	4177.8	5305.9	6055.3	6107.4
40°	2246.7	2165.7	2120.4	2119.1	2132.8	2039.5	2452.6	4277.9	5613.3	6361.3	6339.4
42.5°	2165.7	2080.6	2025.7	2038.1	2029.9	1937.9	2215.1	4369.9	5881.0	6648.2	6604.3
45°	2086.1	2003.8	1926.9	1944.8	1935.2	1874.8	2013.4	4437.1	6177.4	6992.7	6998.1
47.5°	2009.3	1928.3	1851.4	1829.5	1828.1	1855.6	1858.3	4459.1	6660.5	7547.1	7422.2
50°	1937.9	1856.9	1777.3	1703.2	1732.0	1817.1	1743.0	4442.6	7383.8	8159.2	7810.6
52.5°	1863.8	1786.9	1699.1	1566.0	1641.5	1725.2	1640.1	4383.6	7825.7	8700.0	8491.4
55°	1778.7	1706.0	1586.6	1424.6	1516.6	1534.4	1534.4	3812.7	8013.8	9235.2	9364.3
57.5°	1664.8	1568.7	1379.3	1248.9	1331.3	1262.7	1421.9	2668.1	7703.6	9066.4	9567.4
60°	1535.8	1432.8	1232.5	1139.1	1163.8	1043.1	1211.9	1673.0	6384.7	7714.6	8582.0
62.5°	1365.6	1270.9	1104.8	1032.1	981.3	850.9	975.8	1058.2	4376.8	5728.6	6320.2
65°	1251.7	1147.4	999.1	903.1	798.8	684.9	647.8	694.5	2353.8	3206.1	3605.4
67.5°	1117.2	1014.2	874.3	753.5	669.8	587.4	522.9	506.4	807.0	1067.8	1155.6
70°	989.5	890.7	774.1	661.5	577.8	496.8	433.7	388.4	373.3	370.6	365.1
72.5°	859.2	767.2	669.8	565.5	473.5	399.4	343.1	291.0	269.0	262.1	255.3
75°	704.1	631.3	533.9	421.3	347.2	278.6	234.7	200.4	181.2	174.3	166.1
77.5°	452.9	420.0	334.9	271.7	210.0	166.1	142.7	120.8	108.4	105.7	98.8
80°	241.6	225.1	185.3	156.5	124.9	101.6	89.2	76.9	70.0	67.3	64.5
82.5°	134.5	122.1	102.9	90.6	72.7	61.8	54.9	49.4	45.3	43.9	42.5
85°	60.4	52.2	41.2	38.4	34.3	31.6	30.2	27.4	26.1	24.7	23.3
87.5°	2.7	5.5	6.9	5.5	5.5	8.2	9.6	9.6	8.2	8.2	6.9
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: P637215

CATALOG NUMBER: GWS-SA4C-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7
2.5°	3207.4	3248.6	3252.7	3266.4	3248.6	3244.5	3215.7	3199.2	3184.1	3180.0
5°	3457.2	3539.6	3572.5	3595.8	3573.9	3562.9	3499.8	3433.9	3396.8	3379.0
7.5°	3713.9	3837.4	3901.9	3930.7	3933.5	3884.0	3775.6	3652.1	3590.3	3567.0
10°	3943.1	4095.4	4180.5	4235.4	4216.2	4155.8	4007.6	3840.1	3761.9	3741.3
12.5°	4113.2	4258.7	4324.6	4360.3	4358.9	4326.0	4186.0	4004.8	3915.6	3895.0
15°	4223.0	4309.5	4313.6	4321.9	4345.2	4389.1	4316.4	4148.9	4050.1	4021.3
17.5°	4309.5	4275.2	4210.7	4188.7	4240.9	4363.0	4407.0	4271.1	4164.0	4139.3
20°	4364.4	4191.5	4077.6	4035.0	4095.4	4294.4	4461.9	4380.9	4269.7	4238.1
22.5°	4407.0	4113.2	3929.3	3900.5	3963.6	4220.3	4518.1	4511.3	4389.1	4345.2
25°	4474.2	4061.1	3825.0	3804.4	3863.5	4184.6	4593.6	4688.3	4579.9	4516.7
27.5°	4579.9	4055.6	3771.5	3764.6	3845.6	4216.2	4702.0	4947.7	4811.8	4765.2
30°	4726.7	4107.8	3783.9	3797.6	3896.4	4330.1	4870.8	5244.1	5108.3	5035.5
32.5°	4938.1	4247.7	3971.9	4030.9	4103.6	4512.6	5117.9	5565.3	5462.4	5355.3
35°	5216.7	4632.0	4527.7	4778.9	4710.3	4912.0	5415.7	5955.1	5830.2	5736.9
37.5°	5588.6	5419.8	5515.9	5861.8	5695.7	5666.9	5779.4	6309.2	6240.6	6147.2
40°	6110.2	6144.5	6321.5	6775.8	6535.6	6350.3	6225.5	6575.4	6598.8	6483.5
42.5°	6456.0	6613.9	7040.7	7556.7	7226.0	6782.7	6598.8	6915.8	6917.2	6812.9
45°	6585.0	6998.1	7890.2	8484.5	7931.4	7029.7	6804.6	7378.3	7364.6	7245.2
47.5°	6538.4	7322.0	8772.7	9681.3	8837.2	7205.4	6775.8	8037.1	8148.3	7967.1
50°	6440.9	7647.3	9803.4	11147.1	9948.9	7392.0	6731.9	8767.2	8951.1	8811.2
52.5°	6539.7	8009.6	11022.2	12662.3	11343.3	7689.9	7028.3	9704.6	9671.7	9502.9
55°	6852.7	8437.9	12503.1	14565.9	12875.0	8193.6	7790.1	10598.1	10263.2	10061.5
57.5°	6837.6	8743.9	13801.4	16071.4	14207.7	8606.7	8054.9	10692.8	10016.2	9760.9
60°	6206.2	8603.9	14295.5	17023.9	14609.8	8378.8	7183.4	9550.9	8451.6	8183.9
62.5°	4632.0	7635.0	13337.5	15831.3	13472.0	7237.0	5402.0	6855.4	6073.1	5621.6
65°	2963.1	5972.9	11213.0	12825.6	11104.5	5535.1	3217.0	3675.4	2879.4	2750.4
67.5°	1261.3	4216.2	8716.5	8572.4	8307.5	3586.2	1242.1	1034.8	771.3	757.6
70°	417.2	2868.4	5373.2	5717.6	4961.4	2470.4	410.4	347.2	345.9	333.5
72.5°	273.1	1539.9	3024.9	3368.0	3192.3	1421.9	248.4	231.9	237.4	231.9
75°	163.3	334.9	509.2	661.5	509.2	238.8	149.6	146.9	149.6	142.7
77.5°	96.1	93.3	90.6	90.6	89.2	82.3	75.5	72.7	74.1	75.5
80°	61.8	59.0	56.3	54.9	48.0	45.3	42.5	39.8	39.8	41.2
82.5°	39.8	37.1	34.3	30.2	24.7	20.6	19.2	16.5	16.5	17.8
85°	20.6	16.5	12.4	9.6	5.5	2.7	0.0	0.0	0.0	0.0
87.5°	4.1	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)