

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: P639745

Luminaire Tested: GWS-SA5C-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639745
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-SA5C-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18535.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

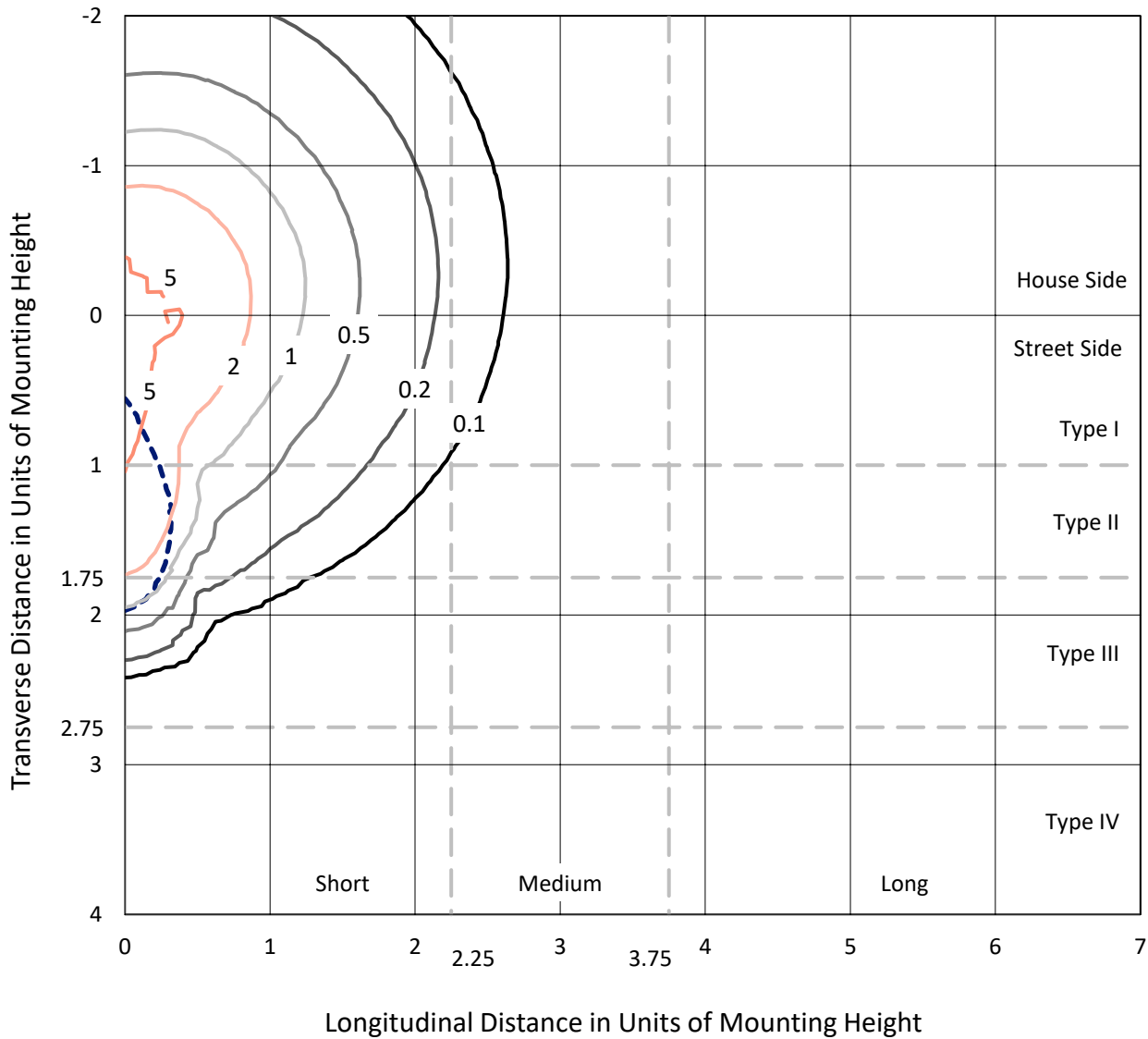
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

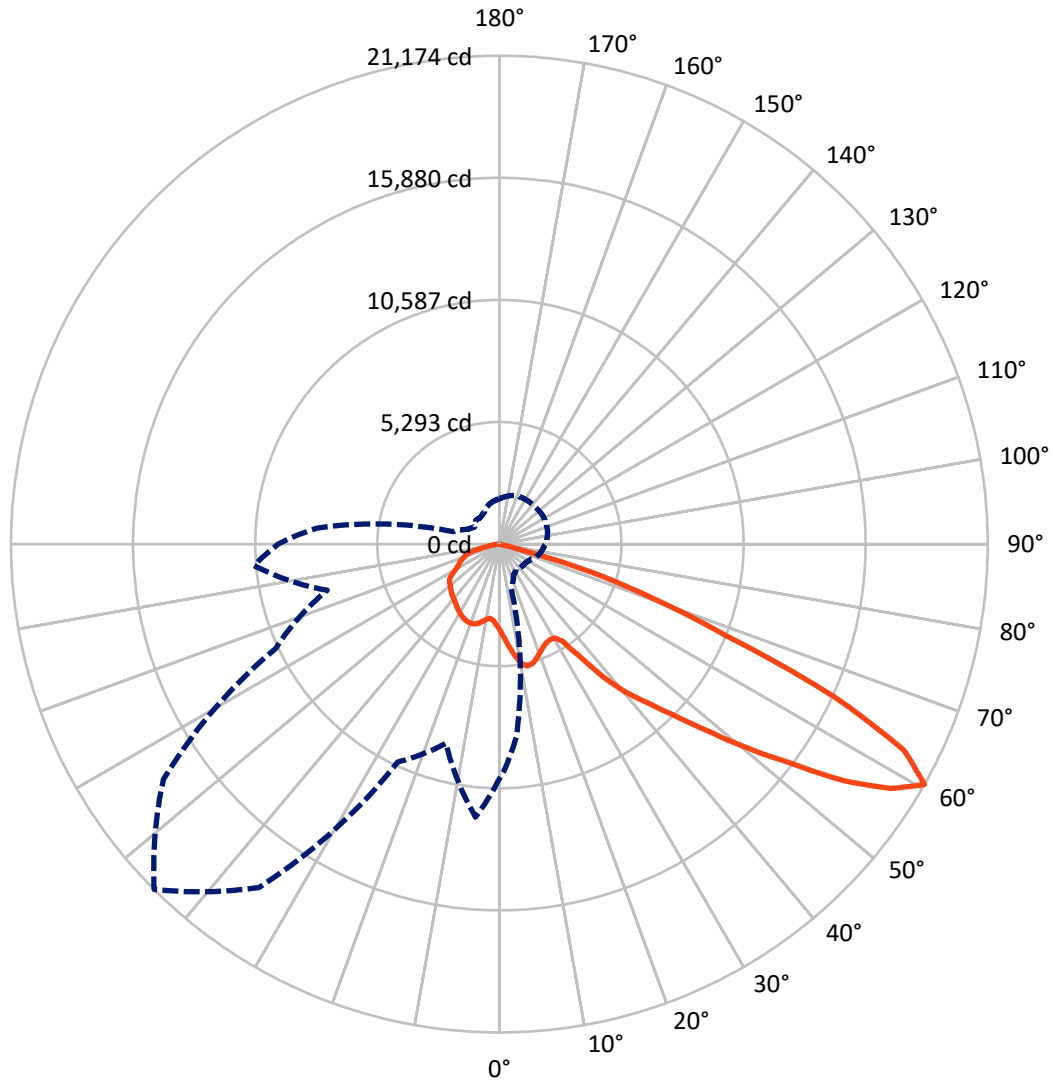
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	6340.7	0.0	6340.7
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	12194.4	0.0	12194.4
	% Fixture	65.8	0.0	65.8
Total	Lumens	18535.1	0.0	18535.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.2	2.0
10°-20°	1171.5	6.3
20°-30°	1907.9	10.3
30°-40°	2680.2	14.5
40°-50°	3667.5	19.8
50°-60°	4705.2	25.4
60°-70°	3168.3	17.1
70°-80°	792.1	4.3
80°-90°	77.2	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°	18535.1	100.0
0°-180°	18535.1	100.0

Coefficient of Utilization



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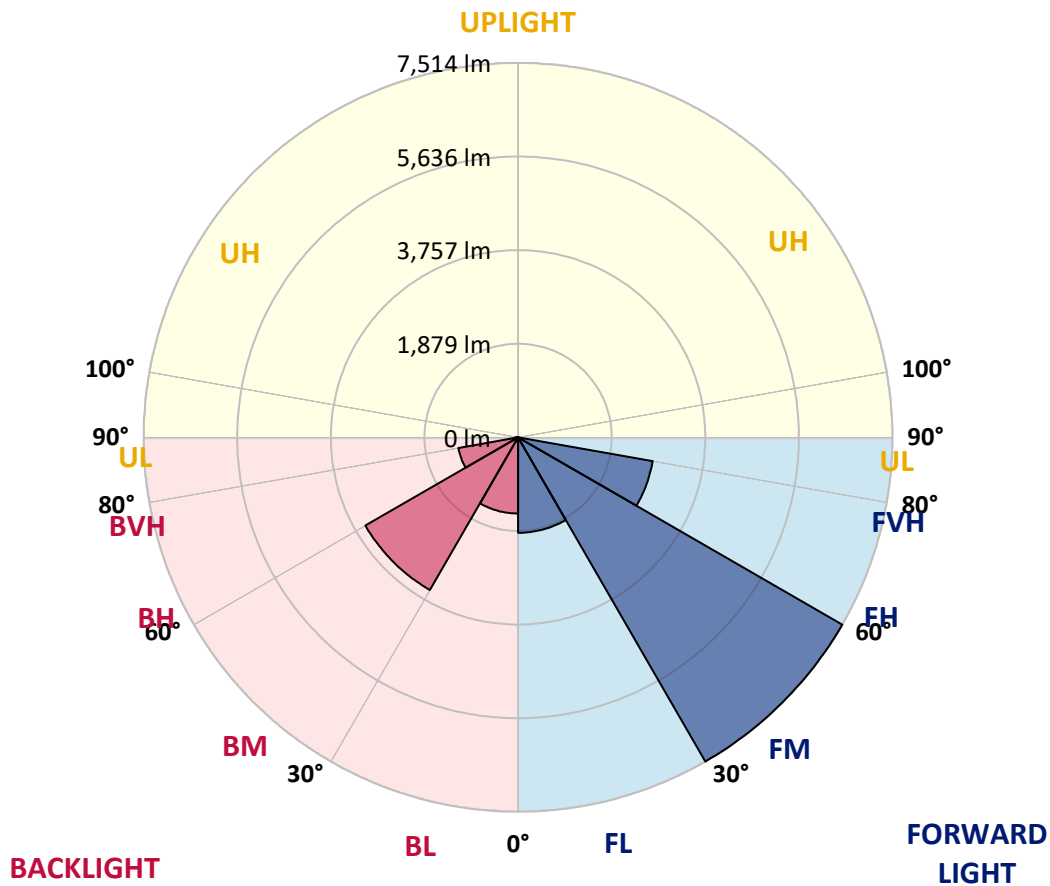
CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.1	10.3			
FM (30°-60°)	7514.3	40.5			
FH (60°-80°)	2744.0	14.8			G2/5000
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	1528.5	8.2	B3/2500		
BM (30°-60°)	3538.6	19.1	B3/5000		
BH (60°-80°)	1216.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	57.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3
2.5°	3955.1	3946.6	3938.1	3871.5	3854.4	3806.6	3772.5	3729.8	3668.3	3634.2	3605.2
5°	4202.6	4189.0	4142.9	4006.3	3917.6	3820.3	3740.0	3651.3	3557.4	3495.9	3448.1
7.5°	4436.5	4433.1	4354.6	4129.2	3985.8	3845.9	3736.6	3606.9	3472.0	3379.9	3318.4
10°	4653.3	4627.7	4533.8	4240.2	4052.4	3892.0	3774.2	3630.8	3473.7	3349.1	3267.2
12.5°	4844.5	4812.0	4682.3	4342.6	4110.5	3912.4	3784.4	3666.6	3562.5	3458.4	3364.5
15°	5001.5	4962.3	4830.8	4438.2	4161.7	3900.5	3721.3	3629.1	3664.9	3711.0	3606.9
17.5°	5148.3	5107.3	4946.9	4508.2	4177.0	3827.1	3565.9	3526.7	3707.6	3917.6	3869.8
20°	5271.2	5225.1	5039.1	4542.3	4149.7	3687.1	3364.5	3432.8	3671.8	3922.7	3999.5
22.5°	5404.4	5366.8	5143.2	4591.8	4115.6	3494.2	3195.5	3362.8	3610.3	3830.5	3946.6
25°	5617.7	5571.7	5305.4	4678.9	4098.5	3313.3	3074.3	3294.5	3525.0	3724.7	3815.1
27.5°	5926.7	5841.4	5527.3	4830.8	4117.3	3142.6	2997.5	3210.9	3426.0	3596.7	3670.1
30°	6263.0	6160.6	5773.1	4987.9	4144.6	3038.5	2956.5	3115.3	3274.0	3444.7	3525.0
32.5°	6660.7	6570.2	6036.0	5105.6	4086.6	2990.7	2925.8	3011.2	3137.5	3274.0	3340.6
35°	7135.3	6973.1	6322.7	5201.2	3898.8	2920.7	2898.5	2896.8	2963.4	3096.5	3171.6
37.5°	7645.7	7471.5	6676.1	5303.7	3606.9	2809.7	2833.6	2761.9	2823.4	2929.2	3014.6
40°	8063.9	7881.2	7032.8	5443.6	3241.6	2635.6	2690.2	2613.4	2651.0	2760.2	2855.8
42.5°	8473.6	8279.0	7365.7	5602.4	2888.2	2464.9	2492.2	2463.2	2475.2	2589.5	2722.7
45°	9011.3	8792.8	7775.4	5715.0	2570.7	2330.1	2304.5	2254.9	2318.1	2466.6	2608.3
47.5°	9909.1	9648.0	8446.2	5788.4	2340.3	2253.2	2135.5	2106.4	2185.0	2350.5	2497.3
50°	10958.9	10733.6	9518.2	5785.0	2167.9	2188.4	1971.6	1946.0	2075.7	2243.0	2398.3
52.5°	11819.3	11590.5	10434.9	5614.3	2026.2	2050.1	1876.0	1804.3	1981.8	2137.2	2292.5
55°	12514.0	12256.3	10856.5	4900.8	1847.0	1829.9	1771.9	1640.4	1864.0	2031.3	2176.4
57.5°	12140.2	11832.9	10346.1	3726.4	1662.6	1555.1	1592.6	1495.3	1703.6	1913.5	2053.5
60°	10178.8	9902.3	8405.3	1983.5	1462.9	1299.0	1377.5	1392.9	1527.8	1771.9	1915.3
62.5°	6991.9	6790.5	5696.3	1203.4	1153.9	1043.0	1165.9	1276.8	1377.5	1584.1	1708.7
65°	3420.8	3361.1	2849.0	771.6	807.4	843.3	966.2	1101.0	1249.5	1430.5	1561.9
67.5°	942.3	949.1	863.7	602.6	636.7	735.7	833.0	940.6	1089.1	1256.4	1389.5
70°	414.8	421.6	435.3	464.3	529.2	619.6	720.4	831.3	967.9	1107.8	1235.9
72.5°	288.5	295.3	315.8	353.3	411.4	496.7	592.3	698.2	839.8	957.6	1063.5
75°	177.5	182.6	201.4	233.9	273.1	338.0	431.9	529.2	653.8	761.3	855.2
77.5°	93.9	90.5	102.4	124.6	158.8	192.9	256.1	317.5	406.3	493.3	571.8
80°	51.2	49.5	56.3	68.3	78.5	105.8	148.5	189.5	240.7	290.2	332.9
82.5°	22.2	20.5	22.2	29.0	35.8	51.2	75.1	104.1	133.1	167.3	194.6
85°	0.0	0.0	0.0	1.7	8.5	13.7	25.6	37.6	54.6	75.1	92.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	15.4
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°	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3
2.5°	3588.1	3545.4	3542.0	3507.9	3511.3	3513.0	3478.9	3465.2	3477.2	3490.8	3484.0
5°	3431.1	3386.7	3367.9	3335.5	3332.1	3316.7	3303.0	3286.0	3297.9	3309.9	3316.7
7.5°	3294.5	3265.5	3253.5	3245.0	3248.4	3241.6	3214.3	3198.9	3197.2	3202.3	3209.2
10°	3250.1	3226.2	3241.6	3265.5	3282.6	3294.5	3265.5	3239.9	3216.0	3205.7	3205.7
12.5°	3345.7	3315.0	3345.7	3371.3	3405.5	3414.0	3381.6	3354.3	3345.7	3356.0	3376.4
15°	3557.4	3485.7	3484.0	3499.4	3526.7	3540.3	3509.6	3495.9	3495.9	3560.8	3612.0
17.5°	3769.1	3651.3	3601.8	3593.2	3610.3	3615.4	3589.8	3577.9	3608.6	3734.9	3830.5
20°	3917.6	3774.2	3666.6	3646.2	3651.3	3653.0	3632.5	3624.0	3668.3	3822.0	3902.2
22.5°	3902.2	3796.4	3664.9	3639.3	3647.9	3644.4	3625.7	3622.3	3658.1	3791.2	3828.8
25°	3796.4	3714.4	3603.5	3586.4	3600.1	3598.4	3579.6	3571.0	3586.4	3675.2	3678.6
27.5°	3675.2	3603.5	3507.9	3502.8	3525.0	3536.9	3504.5	3478.9	3473.7	3533.5	3519.8
30°	3530.1	3477.2	3400.3	3403.8	3444.7	3451.6	3412.3	3374.7	3364.5	3396.9	3378.2
32.5°	3357.7	3340.6	3299.6	3308.2	3347.4	3361.1	3320.1	3280.9	3268.9	3279.1	3239.9
35°	3210.9	3204.0	3207.5	3222.8	3257.0	3267.2	3233.1	3202.3	3185.3	3149.4	3098.2
37.5°	3058.9	3077.7	3127.2	3156.2	3175.0	3171.6	3152.8	3130.6	3103.3	3036.8	2973.6
40°	2917.3	2965.1	3053.8	3086.3	3093.1	3094.8	3081.1	3062.4	3028.2	2939.5	2867.8
42.5°	2808.0	2860.9	2978.7	3028.2	3031.6	3035.0	3021.4	3006.0	2958.2	2840.5	2770.5
45°	2693.6	2763.6	2901.9	2961.6	2958.2	2956.5	2944.6	2937.7	2881.4	2744.9	2668.0
47.5°	2596.3	2678.3	2826.8	2878.0	2876.3	2874.6	2866.1	2866.1	2809.7	2661.2	2574.2
50°	2500.8	2594.6	2750.0	2792.7	2796.1	2792.7	2789.2	2794.4	2727.8	2569.0	2483.7
52.5°	2396.6	2502.5	2664.6	2703.9	2724.4	2732.9	2732.9	2721.0	2642.4	2476.9	2383.0
55°	2282.3	2383.0	2570.7	2623.7	2640.7	2656.1	2656.1	2632.2	2558.8	2391.5	2290.8
57.5°	2140.6	2229.3	2377.9	2430.8	2471.7	2482.0	2482.0	2442.7	2383.0	2222.5	2140.6
60°	1986.9	2063.8	2164.5	2220.8	2251.5	2231.1	2246.4	2236.2	2188.4	2039.9	1971.6
62.5°	1782.1	1860.6	1971.6	2029.6	2043.3	2022.8	2043.3	2041.6	1976.7	1843.6	1761.6
65°	1635.3	1712.1	1821.4	1896.5	1918.7	1913.5	1927.2	1906.7	1826.5	1700.2	1621.7
67.5°	1461.2	1543.1	1669.4	1753.1	1799.2	1804.3	1823.1	1780.4	1698.5	1560.2	1461.2
70°	1295.6	1365.6	1462.9	1541.4	1606.3	1638.7	1642.1	1580.7	1478.3	1363.9	1292.2
72.5°	1121.5	1193.2	1311.0	1396.3	1478.3	1515.8	1515.8	1440.7	1329.8	1203.4	1126.6
75°	909.8	976.4	1083.9	1176.1	1270.0	1317.8	1316.1	1251.2	1128.3	1008.8	928.6
77.5°	616.2	665.7	734.0	804.0	817.7	855.2	874.0	792.0	723.8	658.9	587.2
80°	358.5	389.2	426.8	466.0	474.5	486.5	455.8	425.0	389.2	346.5	314.1
82.5°	210.0	230.4	249.2	279.9	285.1	288.5	261.2	247.5	218.5	192.9	172.4
85°	102.4	109.2	126.3	141.7	134.9	131.4	119.5	105.8	93.9	83.6	73.4
87.5°	20.5	20.5	30.7	29.0	23.9	20.5	11.9	15.4	3.4	3.4	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°	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3
2.5°	3506.2	3535.2	3571.0	3618.8	3673.5	3731.5	3787.8	3830.5	3873.2	3936.3	3926.1
5°	3326.9	3376.4	3432.8	3506.2	3594.9	3695.7	3808.3	3921.0	4042.2	4144.6	4189.0
7.5°	3222.8	3277.4	3344.0	3439.6	3554.0	3676.9	3835.6	4018.3	4214.6	4349.4	4433.1
10°	3222.8	3292.8	3379.9	3472.0	3572.8	3699.1	3895.4	4124.1	4376.8	4554.3	4651.6
12.5°	3408.9	3478.9	3497.6	3494.2	3550.6	3690.5	3943.2	4235.1	4537.2	4725.0	4844.5
15°	3699.1	3723.0	3581.3	3451.6	3460.1	3629.1	3965.4	4323.8	4675.5	4900.8	5030.5
17.5°	3893.7	3830.5	3577.9	3350.8	3303.0	3525.0	3965.4	4409.2	4822.3	5076.6	5197.8
20°	3909.0	3752.0	3490.8	3253.5	3130.6	3386.7	3938.1	4474.1	4964.0	5245.6	5375.3
22.5°	3774.2	3618.8	3398.6	3169.9	2989.0	3219.4	3893.7	4523.6	5085.2	5404.4	5564.8
25°	3620.5	3490.8	3304.8	3084.6	2891.7	3050.4	3852.7	4607.2	5254.1	5619.4	5781.6
27.5°	3470.3	3361.1	3192.1	3012.9	2837.0	2903.6	3827.1	4730.1	5455.6	5925.0	6065.0
30°	3323.5	3224.5	3070.9	2944.6	2808.0	2808.0	3804.9	4871.8	5721.9	6268.1	6408.1
32.5°	3175.0	3081.1	2956.5	2878.0	2790.9	2770.5	3743.5	5004.9	5996.7	6643.6	6787.0
35°	3036.8	2942.9	2847.3	2814.8	2782.4	2741.4	3591.5	5109.1	6264.7	7082.3	7205.3
37.5°	2907.0	2816.6	2744.9	2736.3	2739.7	2662.9	3352.6	5196.1	6599.3	7531.3	7596.2
40°	2794.4	2693.6	2637.3	2635.6	2652.7	2536.6	3050.4	5320.7	6981.6	7912.0	7884.6
42.5°	2693.6	2587.8	2519.5	2534.9	2524.7	2410.3	2755.1	5435.1	7314.5	8268.7	8214.1
45°	2594.6	2492.2	2396.6	2418.8	2406.9	2331.8	2504.2	5518.7	7683.2	8697.2	8704.0
47.5°	2499.0	2398.3	2302.7	2275.4	2273.7	2307.9	2311.3	5546.0	8284.1	9386.8	9231.5
50°	2410.3	2309.6	2210.6	2118.4	2154.2	2260.1	2167.9	5525.6	9183.7	10148.1	9714.5
52.5°	2318.1	2222.5	2113.3	1947.7	2041.6	2145.7	2039.9	5452.2	9733.3	10820.7	10561.2
55°	2212.3	2121.8	1973.3	1771.9	1886.2	1908.4	1908.4	4742.0	9967.2	11486.4	11646.9
57.5°	2070.6	1951.1	1715.5	1553.4	1655.8	1570.4	1768.5	3318.4	9581.4	11276.5	11899.5
60°	1910.1	1782.1	1532.9	1416.8	1447.5	1297.3	1507.3	2080.8	7941.0	9595.1	10673.9
62.5°	1698.5	1580.7	1374.1	1283.7	1220.5	1058.3	1213.7	1316.1	5443.6	7125.0	7860.7
65°	1556.8	1427.1	1242.7	1123.2	993.5	851.8	805.7	863.7	2927.5	3987.6	4484.3
67.5°	1389.5	1261.5	1087.4	937.1	833.0	730.6	650.4	629.9	1003.7	1328.0	1437.3
70°	1230.7	1107.8	962.7	822.8	718.6	617.9	539.4	483.1	464.3	460.9	454.1
72.5°	1068.6	954.2	833.0	703.3	588.9	496.7	426.8	361.9	334.6	326.0	317.5
75°	875.7	785.2	664.0	524.0	431.9	346.5	291.9	249.2	225.3	216.8	206.5
77.5°	563.3	522.3	416.5	338.0	261.2	206.5	177.5	150.2	134.9	131.4	122.9
80°	300.4	279.9	230.4	194.6	155.3	126.3	111.0	95.6	87.1	83.6	80.2
82.5°	167.3	151.9	128.0	112.7	90.5	76.8	68.3	61.5	56.3	54.6	52.9
85°	75.1	64.9	51.2	47.8	42.7	39.3	37.6	34.1	32.4	30.7	29.0
87.5°	3.4	6.8	8.5	6.8	6.8	10.2	11.9	11.9	10.2	10.2	8.5
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: P639745

CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3	3738.3
2.5°	3989.3	4040.5	4045.6	4062.7	4040.5	4035.4	3999.5	3979.0	3960.2	3955.1
5°	4299.9	4402.4	4443.3	4472.3	4445.0	4431.4	4352.9	4270.9	4224.8	4202.6
7.5°	4619.1	4772.8	4853.0	4888.9	4892.3	4830.8	4696.0	4542.3	4465.5	4436.5
10°	4904.2	5093.7	5199.5	5267.8	5243.9	5168.8	4984.4	4776.2	4678.9	4653.3
12.5°	5115.9	5296.8	5378.8	5423.1	5421.4	5380.5	5206.4	4981.0	4870.1	4844.5
15°	5252.4	5360.0	5365.1	5375.3	5404.4	5459.0	5368.5	5160.3	5037.4	5001.5
17.5°	5360.0	5317.3	5237.1	5209.8	5274.6	5426.6	5481.2	5312.2	5179.0	5148.3
20°	5428.3	5213.2	5071.5	5018.6	5093.7	5341.2	5549.5	5448.7	5310.5	5271.2
22.5°	5481.2	5115.9	4887.1	4851.3	4929.8	5249.0	5619.4	5610.9	5459.0	5404.4
25°	5564.8	5051.0	4757.4	4731.8	4805.2	5204.6	5713.3	5831.1	5696.3	5617.7
27.5°	5696.3	5044.2	4690.8	4682.3	4783.0	5243.9	5848.2	6153.7	5984.7	5926.7
30°	5878.9	5109.1	4706.2	4723.3	4846.2	5385.6	6058.1	6522.5	6353.5	6263.0
32.5°	6141.8	5283.2	4940.1	5013.5	5103.9	5612.6	6365.4	6921.9	6793.9	6660.7
35°	6488.3	5761.1	5631.4	5943.8	5858.4	6109.4	6735.8	7406.7	7251.3	7135.3
37.5°	6950.9	6740.9	6860.4	7290.6	7084.1	7048.2	7188.2	7847.1	7761.7	7645.7
40°	7599.6	7642.2	7862.4	8427.5	8128.7	7898.3	7743.0	8178.2	8207.3	8063.9
42.5°	8029.7	8226.0	8756.9	9398.7	8987.4	8436.0	8207.3	8601.6	8603.3	8473.6
45°	8190.2	8704.0	9813.5	10552.7	9864.8	8743.3	8463.3	9176.8	9159.8	9011.3
47.5°	8132.2	9106.9	10911.2	12041.2	10991.4	8961.8	8427.5	9996.2	10134.5	9909.1
50°	8011.0	9511.4	12193.1	13864.3	12374.1	9193.9	8372.8	10904.3	11133.1	10958.9
52.5°	8133.9	9962.1	13708.9	15748.8	14108.4	9564.3	8741.6	12070.2	12029.2	11819.3
55°	8523.1	10494.6	15550.8	18116.4	16013.4	10190.8	9688.9	13181.5	12765.0	12514.0
57.5°	8504.3	10875.3	17165.6	19989.0	17670.9	10704.6	10018.4	13299.2	12457.7	12140.2
60°	7719.1	10701.2	17780.1	21173.6	18171.0	10421.2	8934.4	11879.0	10511.7	10178.8
62.5°	5761.1	9496.0	16588.6	19690.3	16755.9	9001.0	6718.8	8526.5	7553.5	6991.9
65°	3685.4	7428.9	13946.2	15951.9	13811.3	6884.3	4001.2	4571.3	3581.3	3420.8
67.5°	1568.7	5243.9	10841.2	10661.9	10332.5	4460.4	1544.8	1287.1	959.3	942.3
70°	518.9	3567.6	6682.9	7111.4	6170.8	3072.6	510.4	431.9	430.2	414.8
72.5°	339.7	1915.3	3762.2	4189.0	3970.5	1768.5	309.0	288.5	295.3	288.5
75°	203.1	416.5	633.3	822.8	633.3	297.0	186.1	182.6	186.1	177.5
77.5°	119.5	116.1	112.7	112.7	111.0	102.4	93.9	90.5	92.2	93.9
80°	76.8	73.4	70.0	68.3	59.7	56.3	52.9	49.5	49.5	51.2
82.5°	49.5	46.1	42.7	37.6	30.7	25.6	23.9	20.5	20.5	22.2
85°	25.6	20.5	15.4	11.9	6.8	3.4	0.0	0.0	0.0	0.0
87.5°	5.1	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)