

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: P639690

Luminaire Tested: GWS-SA5C-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639690
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18281.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

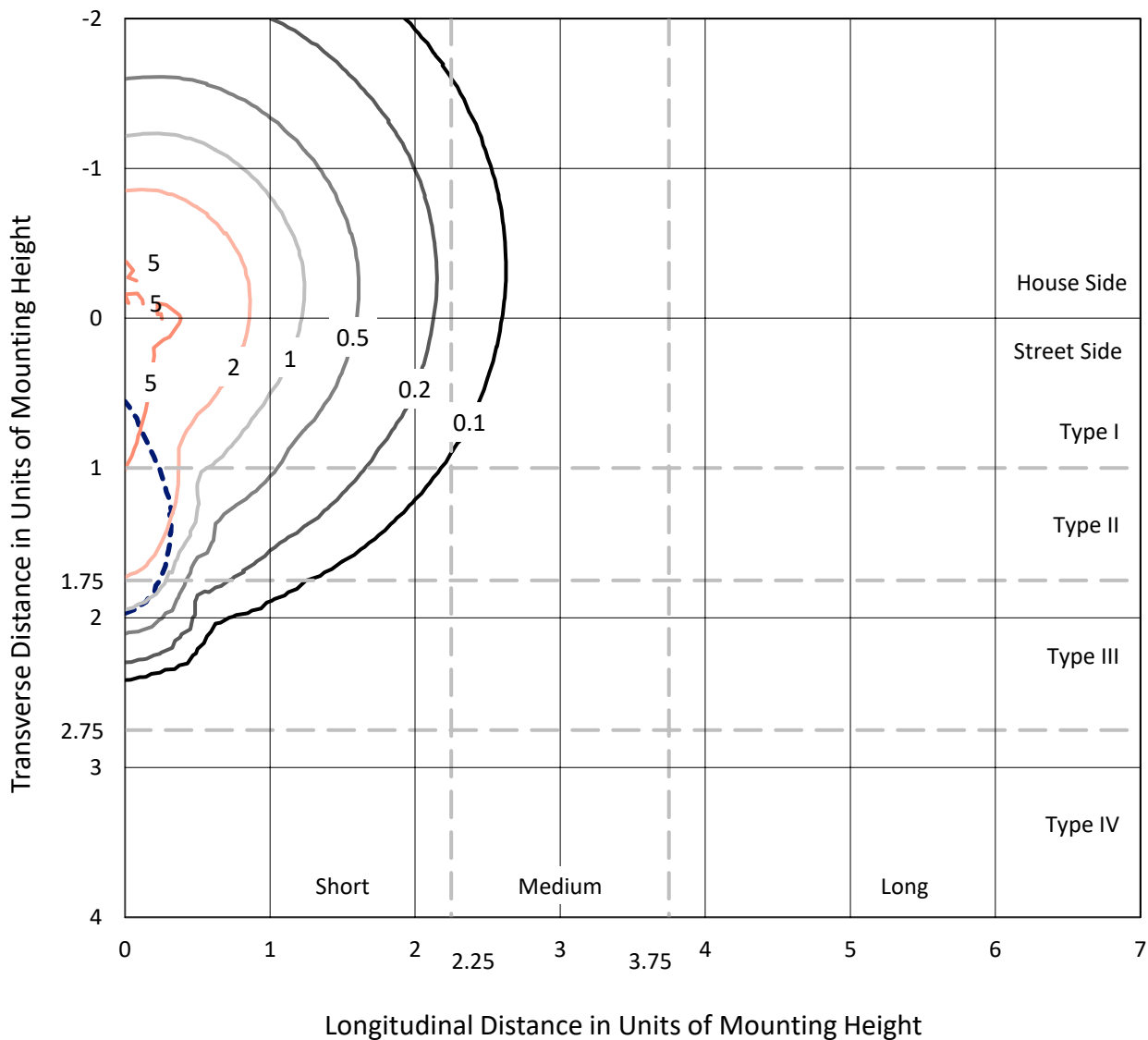
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

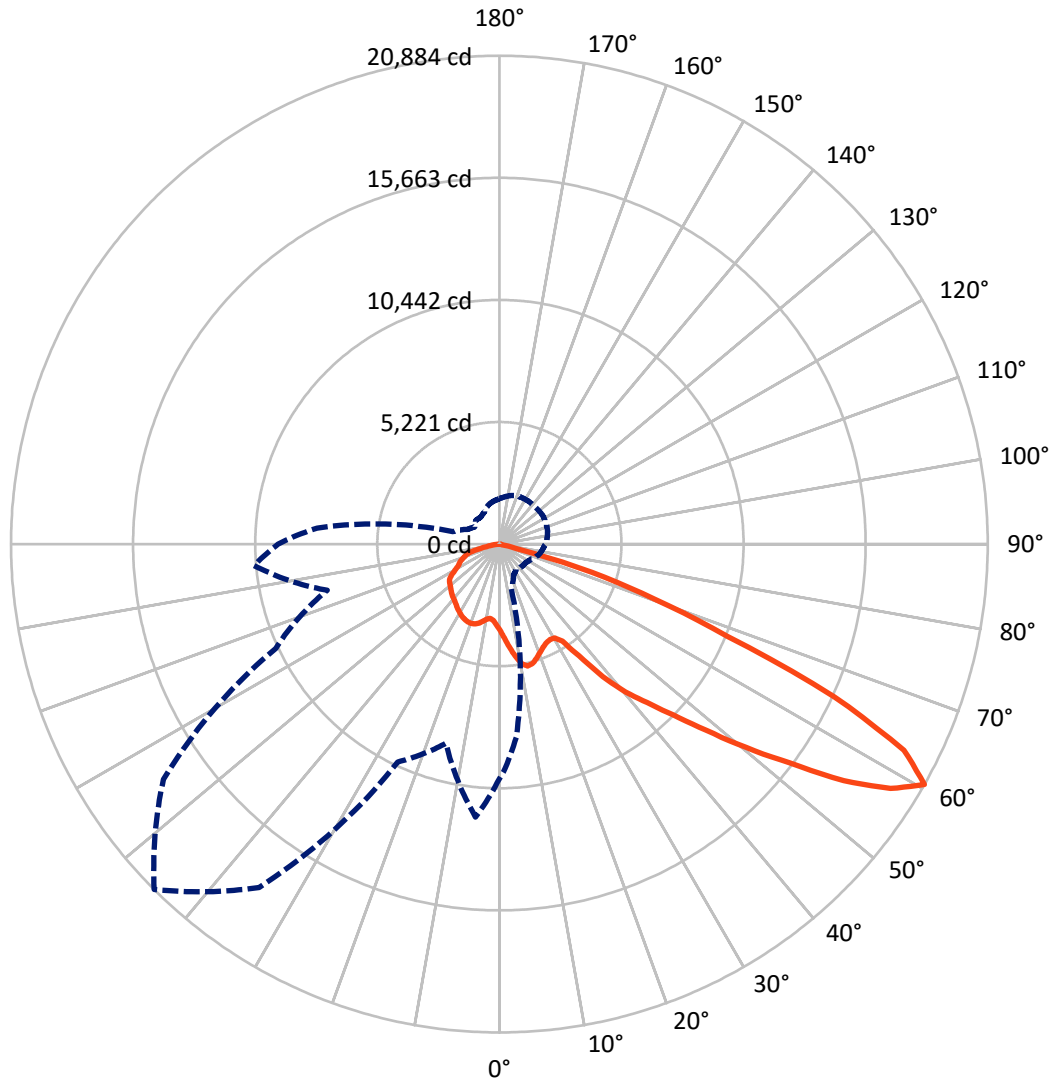
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	6253.8	0.0	6253.8
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	12027.3	0.0	12027.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	18281.1	0.0	18281.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.2	2.0
10°-20°	1155.4	6.3
20°-30°	1881.7	10.3
30°-40°	2643.4	14.5
40°-50°	3617.3	19.8
50°-60°	4640.7	25.4
60°-70°	3124.9	17.1
70°-80°	781.2	4.3
80°-90°	76.2	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°	18281.1	100.0
0°-180°	18281.1	100.0

Coefficient of Utilization



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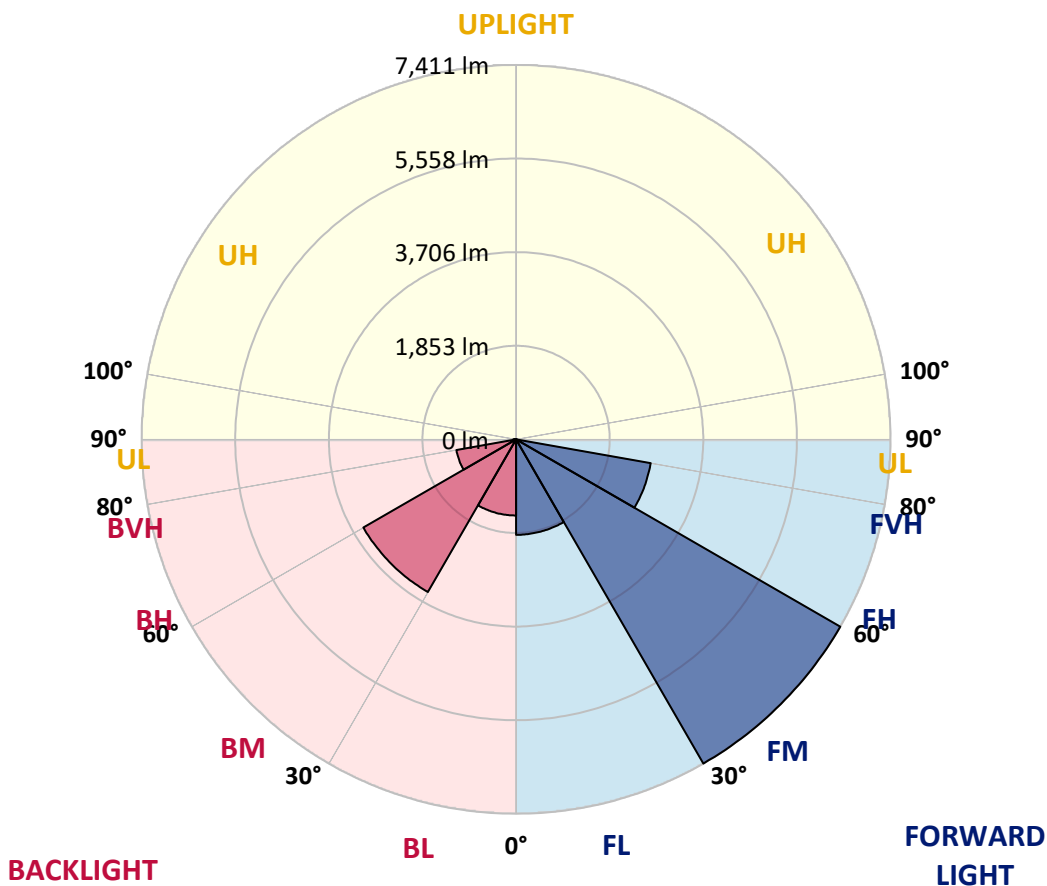
CATALOG NUMBER: GWS-SA5C-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1889.8	10.3			
FM (30°-60°)	7411.3	40.5			
FH (60°-80°)	2706.4	14.8			G2/5000
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	1507.5	8.2	B3/2500		
BM (30°-60°)	3490.1	19.1	B3/5000		
BH (60°-80°)	1199.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	56.4	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°	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1
2.5°	3900.9	3892.5	3884.1	3818.4	3801.6	3754.4	3720.8	3678.7	3618.1	3584.4	3555.8
5°	4145.0	4131.6	4086.1	3951.4	3863.9	3767.9	3688.8	3601.2	3508.6	3448.0	3400.9
7.5°	4375.7	4372.3	4294.9	4072.7	3931.2	3793.2	3685.4	3557.5	3424.5	3333.5	3272.9
10°	4589.5	4564.3	4471.7	4182.1	3996.9	3838.6	3722.5	3581.0	3426.1	3303.2	3222.4
12.5°	4778.1	4746.1	4618.1	4283.1	4054.1	3858.8	3732.6	3616.4	3513.7	3411.0	3318.4
15°	4933.0	4894.3	4764.6	4377.4	4104.6	3847.0	3670.3	3579.4	3614.7	3660.2	3557.5
17.5°	5077.8	5037.4	4879.1	4446.4	4119.8	3774.7	3517.1	3478.3	3656.8	3863.9	3816.7
20°	5199.0	5153.5	4970.0	4480.1	4092.9	3636.6	3318.4	3385.7	3621.4	3868.9	3944.7
22.5°	5330.3	5293.3	5072.7	4528.9	4059.2	3446.3	3151.7	3316.7	3560.8	3778.0	3892.5
25°	5540.8	5495.3	5232.7	4614.8	4042.3	3267.9	3032.2	3249.4	3476.7	3673.6	3762.9
27.5°	5845.5	5761.3	5451.5	4764.6	4060.9	3099.5	2956.4	3166.9	3379.0	3547.4	3619.8
30°	6177.2	6076.1	5694.0	4919.5	4087.8	2996.8	2916.0	3072.6	3229.2	3397.5	3476.7
32.5°	6569.4	6480.2	5953.2	5035.7	4030.6	2949.7	2885.7	2969.9	3094.5	3229.2	3294.8
35°	7037.5	6877.5	6236.1	5130.0	3845.4	2880.7	2858.8	2857.1	2922.7	3054.1	3128.1
37.5°	7540.9	7369.2	6584.6	5231.0	3557.5	2771.2	2794.8	2724.1	2784.7	2889.1	2973.3
40°	7953.4	7773.2	6936.5	5369.0	3197.2	2599.5	2653.4	2577.6	2614.6	2722.4	2816.7
42.5°	8357.4	8165.5	7264.8	5525.6	2848.7	2431.1	2458.1	2429.4	2441.2	2554.0	2685.4
45°	8887.8	8672.3	7668.8	5636.7	2535.5	2298.1	2272.9	2224.0	2286.3	2432.8	2572.6
47.5°	9773.3	9515.8	8330.5	5709.1	2308.2	2222.4	2106.2	2077.6	2155.0	2318.3	2463.1
50°	10808.8	10586.5	9387.8	5705.8	2138.2	2158.4	1944.6	1919.3	2047.3	2212.3	2365.5
52.5°	11657.3	11431.7	10291.9	5537.4	1998.4	2022.0	1850.3	1779.6	1954.7	2107.9	2261.1
55°	12342.5	12088.3	10707.8	4833.6	1821.7	1804.8	1747.6	1617.9	1838.5	2003.5	2146.6
57.5°	11973.8	11670.8	10204.4	3675.3	1639.8	1533.8	1570.8	1474.8	1680.2	1887.3	2025.4
60°	10039.4	9766.6	8290.1	1956.4	1442.9	1281.2	1358.7	1373.8	1506.8	1747.6	1889.0
62.5°	6896.1	6697.4	5618.2	1186.9	1138.1	1028.7	1149.9	1259.3	1358.7	1562.4	1685.3
65°	3374.0	3315.0	2809.9	761.0	796.3	831.7	952.9	1085.9	1232.4	1410.9	1540.5
67.5°	929.4	936.1	851.9	594.3	628.0	725.6	821.6	927.7	1074.1	1239.1	1370.5
70°	409.1	415.9	429.3	457.9	521.9	611.2	710.5	819.9	954.6	1092.7	1218.9
72.5°	284.5	291.3	311.5	348.5	405.7	489.9	584.2	688.6	828.3	944.5	1048.9
75°	175.1	180.1	198.7	230.7	269.4	333.4	426.0	521.9	644.8	750.9	843.5
77.5°	92.6	89.2	101.0	122.9	156.6	190.2	252.5	313.2	400.7	486.6	564.0
80°	50.5	48.8	55.6	67.3	77.4	104.4	146.5	186.9	237.4	286.2	328.3
82.5°	21.9	20.2	21.9	28.6	35.4	50.5	74.1	102.7	131.3	165.0	191.9
85°	0.0	0.0	0.0	1.7	8.4	13.5	25.3	37.0	53.9	74.1	90.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	15.2
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°	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1
2.5°	3538.9	3496.9	3493.5	3459.8	3463.2	3464.9	3431.2	3417.7	3429.5	3443.0	3436.2
5°	3384.1	3340.3	3321.8	3289.8	3286.4	3271.3	3257.8	3240.9	3252.7	3264.5	3271.3
7.5°	3249.4	3220.7	3209.0	3200.5	3203.9	3197.2	3170.2	3155.1	3153.4	3158.5	3165.2
10°	3205.6	3182.0	3197.2	3220.7	3237.6	3249.4	3220.7	3195.5	3171.9	3161.8	3161.8
12.5°	3299.9	3269.6	3299.9	3325.1	3358.8	3367.2	3335.2	3308.3	3299.9	3310.0	3330.2
15°	3508.6	3437.9	3436.2	3451.4	3478.3	3491.8	3461.5	3448.0	3448.0	3512.0	3562.5
17.5°	3717.4	3601.2	3552.4	3544.0	3560.8	3565.9	3540.6	3528.8	3559.1	3683.7	3778.0
20°	3863.9	3722.5	3616.4	3596.2	3601.2	3602.9	3582.7	3574.3	3618.1	3769.6	3848.7
22.5°	3848.7	3744.3	3614.7	3589.5	3597.9	3594.5	3576.0	3572.6	3608.0	3739.3	3776.3
25°	3744.3	3663.5	3554.1	3537.3	3550.7	3549.0	3530.5	3522.1	3537.3	3624.8	3628.2
27.5°	3624.8	3554.1	3459.8	3454.8	3476.7	3488.4	3456.4	3431.2	3426.1	3485.1	3471.6
30°	3481.7	3429.5	3353.7	3357.1	3397.5	3404.3	3365.5	3328.5	3318.4	3350.4	3331.9
32.5°	3311.7	3294.8	3254.4	3262.8	3301.6	3315.0	3274.6	3235.9	3224.1	3234.2	3195.5
35°	3166.9	3160.1	3163.5	3178.7	3212.3	3222.4	3188.8	3158.5	3141.6	3106.3	3055.8
37.5°	3017.0	3035.5	3084.4	3113.0	3131.5	3128.1	3109.6	3087.7	3060.8	2995.1	2932.8
40°	2877.3	2924.4	3012.0	3044.0	3050.7	3052.4	3038.9	3020.4	2986.7	2899.2	2828.5
42.5°	2769.5	2821.7	2937.9	2986.7	2990.1	2993.5	2980.0	2964.8	2917.7	2801.5	2732.5
45°	2656.7	2725.8	2862.1	2921.1	2917.7	2916.0	2904.2	2897.5	2841.9	2707.2	2631.5
47.5°	2560.8	2641.6	2788.1	2838.6	2836.9	2835.2	2826.8	2826.8	2771.2	2624.7	2538.9
50°	2466.5	2559.1	2712.3	2754.4	2757.8	2754.4	2751.0	2756.1	2690.4	2533.8	2449.7
52.5°	2363.8	2468.2	2628.1	2666.8	2687.0	2695.5	2695.5	2683.7	2606.2	2442.9	2350.3
55°	2251.0	2350.3	2535.5	2587.7	2604.5	2619.7	2619.7	2596.1	2523.7	2358.7	2259.4
57.5°	2111.2	2198.8	2345.3	2397.5	2437.9	2448.0	2448.0	2409.2	2350.3	2192.1	2111.2
60°	1959.7	2035.5	2134.8	2190.4	2220.7	2200.5	2215.6	2205.5	2158.4	2011.9	1944.6
62.5°	1757.7	1835.1	1944.6	2001.8	2015.3	1995.1	2015.3	2013.6	1949.6	1818.3	1737.5
65°	1612.9	1688.7	1796.4	1870.5	1892.4	1887.3	1900.8	1880.6	1801.5	1676.9	1599.4
67.5°	1441.2	1522.0	1646.6	1729.1	1774.5	1779.6	1798.1	1756.0	1675.2	1538.8	1441.2
70°	1277.9	1346.9	1442.9	1520.3	1584.3	1616.3	1619.6	1559.0	1458.0	1345.2	1274.5
72.5°	1106.1	1176.8	1293.0	1377.2	1458.0	1495.0	1495.0	1421.0	1311.5	1186.9	1111.2
75°	897.4	963.0	1069.1	1160.0	1252.6	1299.7	1298.1	1234.1	1112.9	995.0	915.9
77.5°	607.8	656.6	724.0	793.0	806.4	843.5	862.0	781.2	713.9	649.9	579.2
80°	353.6	383.9	420.9	459.6	468.0	479.8	449.5	419.2	383.9	341.8	309.8
82.5°	207.1	227.3	245.8	276.1	281.2	284.5	257.6	244.1	215.5	190.2	170.0
85°	101.0	107.8	124.6	139.7	133.0	129.6	117.9	104.4	92.6	82.5	72.4
87.5°	20.2	20.2	30.3	28.6	23.6	20.2	11.8	15.2	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°	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1
2.5°	3458.1	3486.8	3522.1	3569.3	3623.1	3680.4	3735.9	3778.0	3820.1	3882.4	3872.3
5°	3281.4	3330.2	3385.7	3458.1	3545.7	3645.0	3756.1	3867.2	3986.8	4087.8	4131.6
7.5°	3178.7	3232.5	3298.2	3392.5	3505.3	3626.5	3783.1	3963.2	4156.8	4289.8	4372.3
10°	3178.7	3247.7	3333.5	3424.5	3523.8	3648.4	3842.0	4067.6	4316.8	4491.9	4587.8
12.5°	3362.2	3431.2	3449.7	3446.3	3501.9	3640.0	3889.1	4177.0	4475.0	4660.2	4778.1
15°	3648.4	3672.0	3532.2	3404.3	3412.7	3579.4	3911.0	4264.6	4611.4	4833.6	4961.6
17.5°	3840.3	3778.0	3528.8	3304.9	3257.8	3476.7	3911.0	4348.8	4756.2	5007.1	5126.6
20°	3855.5	3700.6	3443.0	3209.0	3087.7	3340.3	3884.1	4412.7	4895.9	5173.7	5301.7
22.5°	3722.5	3569.3	3352.1	3126.5	2948.0	3175.3	3840.3	4461.6	5015.5	5330.3	5488.6
25°	3570.9	3443.0	3259.5	3042.3	2852.0	3008.6	3799.9	4544.1	5182.1	5542.4	5702.4
27.5°	3422.8	3315.0	3148.3	2971.6	2798.2	2863.8	3774.7	4665.3	5380.8	5843.8	5981.9
30°	3278.0	3180.3	3028.8	2904.2	2769.5	2769.5	3752.8	4805.0	5643.5	6182.2	6320.3
32.5°	3131.5	3038.9	2916.0	2838.6	2752.7	2732.5	3692.2	4936.3	5914.5	6552.6	6694.0
35°	2995.1	2902.5	2808.3	2776.3	2744.3	2703.9	3542.3	5039.0	6178.8	6985.3	7106.5
37.5°	2867.2	2778.0	2707.2	2698.8	2702.2	2626.4	3306.6	5124.9	6508.8	7428.1	7492.1
40°	2756.1	2656.7	2601.2	2599.5	2616.3	2501.8	3008.6	5247.8	6886.0	7803.5	7776.6
42.5°	2656.7	2552.4	2485.0	2500.2	2490.1	2377.3	2717.3	5360.6	7214.3	8155.4	8101.5
45°	2559.1	2458.1	2363.8	2385.7	2373.9	2299.8	2469.9	5443.1	7577.9	8578.0	8584.7
47.5°	2464.8	2365.5	2271.2	2244.3	2242.6	2276.2	2279.6	5470.0	8170.6	9258.2	9105.0
50°	2377.3	2277.9	2180.3	2089.4	2124.7	2229.1	2138.2	5449.8	9057.8	10009.1	9581.4
52.5°	2286.3	2192.1	2084.3	1921.0	2013.6	2116.3	2011.9	5377.4	9599.9	10672.4	10416.5
55°	2182.0	2092.7	1946.3	1747.6	1860.4	1882.3	1882.3	4677.1	9830.6	11329.0	11487.3
57.5°	2042.2	1924.4	1692.0	1532.1	1633.1	1548.9	1744.2	3272.9	9450.1	11121.9	11736.4
60°	1884.0	1757.7	1511.9	1397.4	1427.7	1279.5	1486.6	2052.3	7832.1	9463.6	10527.6
62.5°	1675.2	1559.0	1355.3	1266.1	1203.8	1043.8	1197.0	1298.1	5369.0	7027.4	7753.0
65°	1535.5	1407.5	1225.7	1107.8	979.9	840.1	794.7	851.9	2887.4	3932.9	4422.8
67.5°	1370.5	1244.2	1072.5	924.3	821.6	720.6	641.5	621.3	990.0	1309.8	1417.6
70°	1213.9	1092.7	949.6	811.5	708.8	609.5	532.0	476.5	457.9	454.6	447.8
72.5°	1053.9	941.1	821.6	693.6	580.8	489.9	420.9	356.9	330.0	321.6	313.2
75°	863.7	774.5	654.9	516.9	426.0	341.8	287.9	245.8	222.2	213.8	203.7
77.5°	555.6	515.2	410.8	333.4	257.6	203.7	175.1	148.2	133.0	129.6	121.2
80°	296.3	276.1	227.3	191.9	153.2	124.6	109.4	94.3	85.9	82.5	79.1
82.5°	165.0	149.8	126.3	111.1	89.2	75.8	67.3	60.6	55.6	53.9	52.2
85°	74.1	64.0	50.5	47.1	42.1	38.7	37.0	33.7	32.0	30.3	28.6
87.5°	3.4	6.7	8.4	6.7	6.7	10.1	11.8	11.8	10.1	10.1	8.4
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: P639690

CATALOG NUMBER: GWS-SA5C-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1
2.5°	3934.6	3985.1	3990.2	4007.0	3985.1	3980.1	3944.7	3924.5	3906.0	3900.9
5°	4241.0	4342.0	4382.4	4411.1	4384.1	4370.6	4293.2	4212.4	4166.9	4145.0
7.5°	4555.8	4707.4	4786.5	4821.9	4825.2	4764.6	4631.6	4480.1	4404.3	4375.7
10°	4837.0	5023.9	5128.3	5195.6	5172.0	5098.0	4916.1	4710.7	4614.8	4589.5
12.5°	5045.8	5224.2	5305.1	5348.8	5347.1	5306.7	5135.0	4912.8	4803.3	4778.1
15°	5180.5	5286.5	5291.6	5301.7	5330.3	5384.2	5295.0	5089.5	4968.3	4933.0
17.5°	5286.5	5244.4	5165.3	5138.4	5202.4	5352.2	5406.1	5239.4	5108.1	5077.8
20°	5353.9	5141.7	5002.0	4949.8	5023.9	5268.0	5473.4	5374.1	5237.7	5199.0
22.5°	5406.1	5045.8	4820.2	4784.8	4862.3	5177.1	5542.4	5534.0	5384.2	5330.3
25°	5488.6	4981.8	4692.2	4667.0	4739.4	5133.3	5635.0	5751.2	5618.2	5540.8
27.5°	5618.2	4975.1	4626.6	4618.1	4717.5	5172.0	5768.0	6069.4	5902.7	5845.5
30°	5798.3	5039.0	4641.7	4658.5	4779.8	5311.8	5975.1	6433.1	6266.4	6177.2
32.5°	6057.6	5210.8	4872.4	4944.8	5034.0	5535.7	6278.2	6827.0	6700.8	6569.4
35°	6399.4	5682.2	5554.2	5862.3	5778.1	6025.6	6643.5	7305.2	7152.0	7037.5
37.5°	6855.7	6648.6	6766.4	7190.7	6987.0	6951.6	7089.7	7739.6	7655.4	7540.9
40°	7495.4	7537.5	7754.7	8312.0	8017.3	7790.1	7636.9	8066.2	8094.8	7953.4
42.5°	7919.7	8113.3	8636.9	9270.0	8864.2	8320.4	8094.8	8483.7	8485.4	8357.4
45°	8078.0	8584.7	9679.1	10408.1	9729.6	8623.4	8347.3	9051.1	9034.2	8887.8
47.5°	8020.7	8982.1	10761.6	11876.2	10840.8	8838.9	8312.0	9859.2	9995.6	9773.3
50°	7901.2	9381.1	12026.0	13674.3	12204.5	9067.9	8258.1	10754.9	10980.5	10808.8
52.5°	8022.4	9825.5	13521.1	15533.0	13915.0	9433.3	8621.8	11904.8	11864.4	11657.3
55°	8406.3	10350.8	15337.7	17868.1	15793.9	10051.1	9556.2	13000.8	12590.0	12342.5
57.5°	8387.7	10726.3	16930.4	19715.1	17428.7	10557.9	9881.1	13117.0	12287.0	11973.8
60°	7613.3	10554.5	17536.5	20883.5	17922.0	10278.4	8812.0	11716.2	10367.7	10039.4
62.5°	5682.2	9365.9	16361.3	19420.4	16526.3	8877.7	6626.7	8409.6	7450.0	6896.1
65°	3634.9	7327.1	13755.1	15733.3	13622.1	6790.0	3946.4	4508.7	3532.2	3374.0
67.5°	1547.2	5172.0	10692.6	10515.8	10190.9	4399.3	1523.7	1269.4	946.2	929.4
70°	511.8	3518.7	6591.3	7013.9	6086.2	3030.5	503.4	426.0	424.3	409.1
72.5°	335.0	1889.0	3710.7	4131.6	3916.1	1744.2	304.7	284.5	291.3	284.5
75°	200.3	410.8	624.6	811.5	624.6	292.9	183.5	180.1	183.5	175.1
77.5°	117.9	114.5	111.1	111.1	109.4	101.0	92.6	89.2	90.9	92.6
80°	75.8	72.4	69.0	67.3	58.9	55.6	52.2	48.8	48.8	50.5
82.5°	48.8	45.5	42.1	37.0	30.3	25.3	23.6	20.2	20.2	21.9
85°	25.3	20.2	15.2	11.8	6.7	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)