

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: P637274

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT 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: 15187.5 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

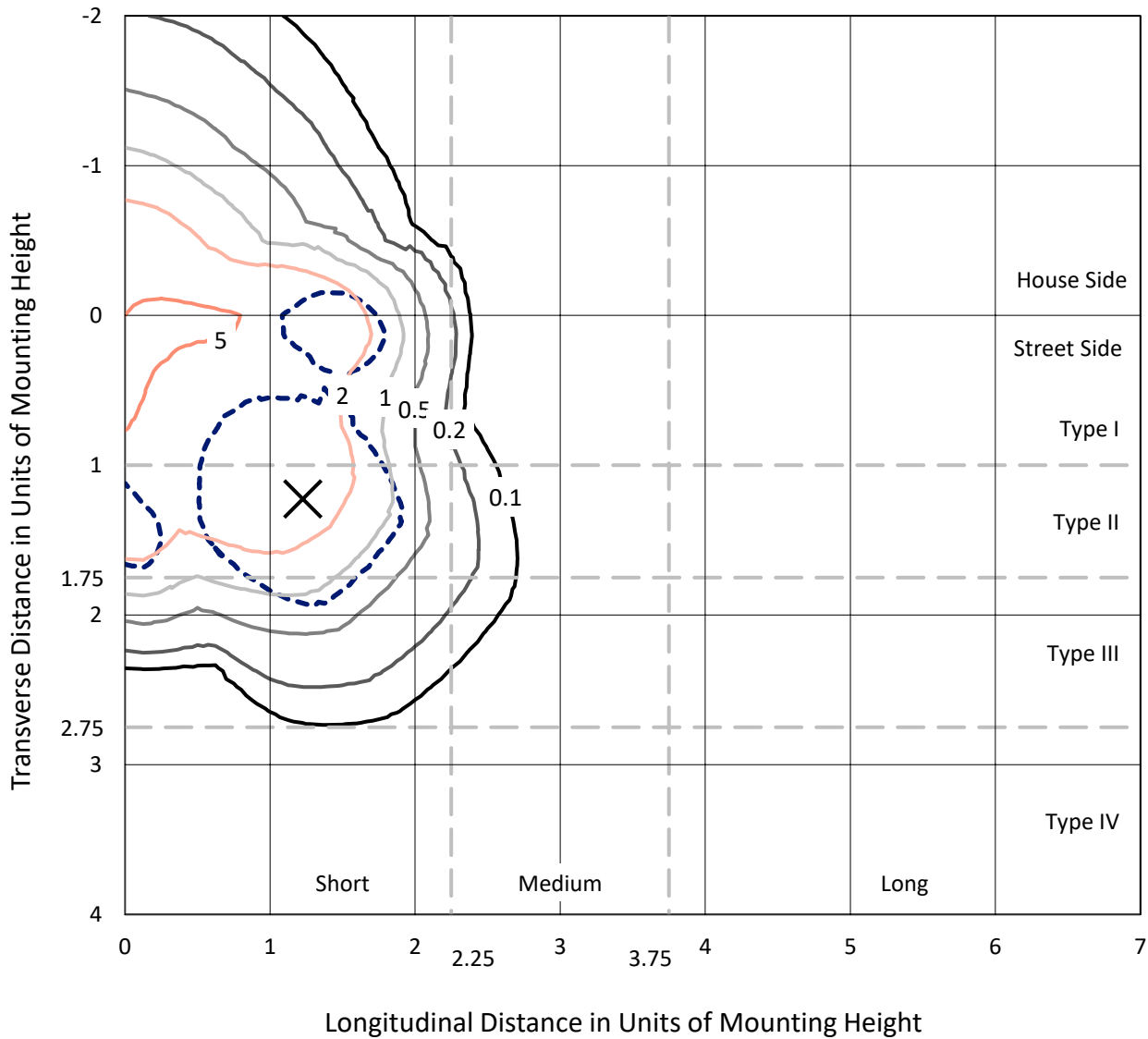
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637274
 CATALOG NUMBER: GWS-SA4C-740-U-SLR-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

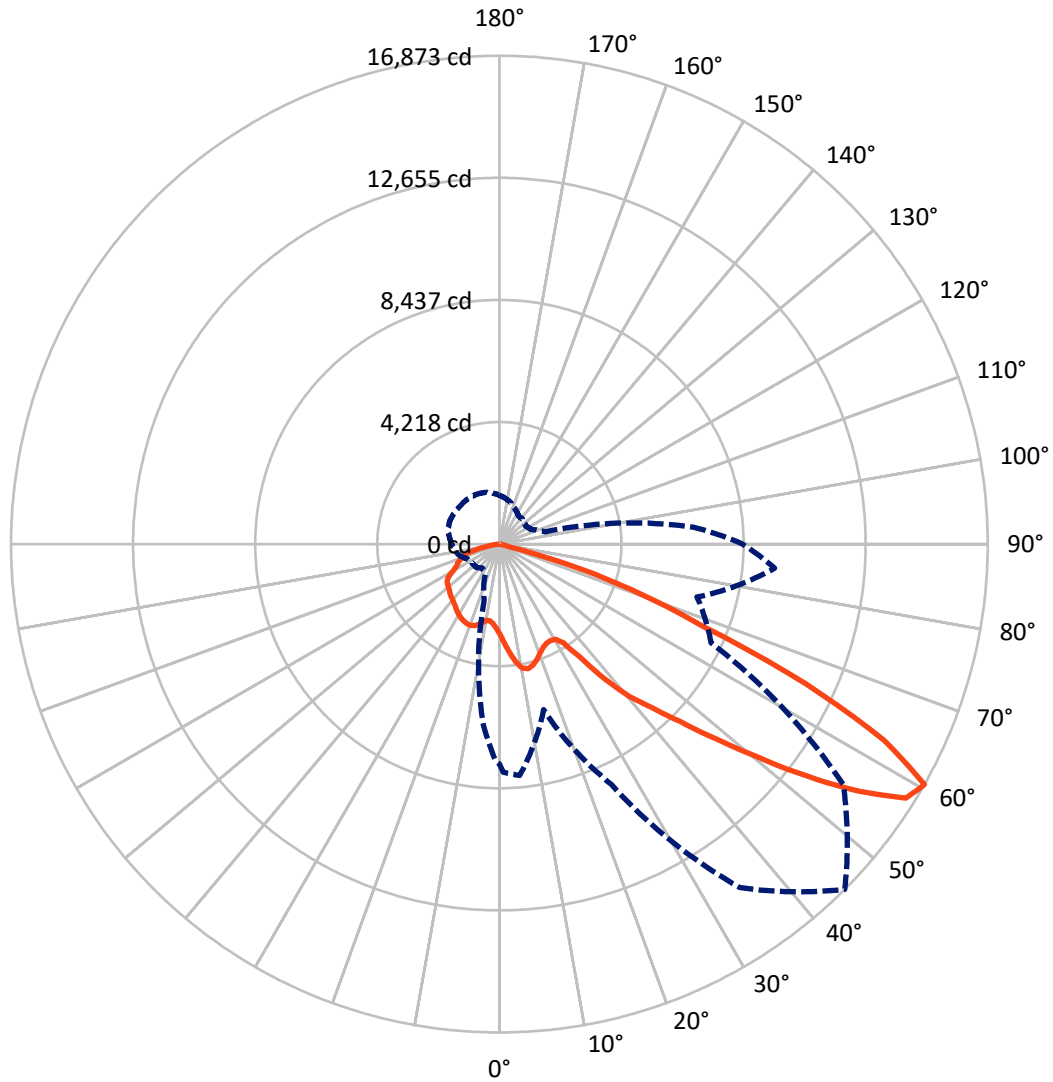
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

REPORT NUMBER: P637274
CATALOG NUMBER: GWS-SA4C-740-U-SLR-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P637274

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5323.8	0.0	5323.8
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	9863.7	0.0	9863.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	15187.5	0.0	15187.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	2.0
10°-20°	961.9	6.3
20°-30°	1562.5	10.3
30°-40°	2203.6	14.5
40°-50°	3045.3	20.1
50°-60°	3920.3	25.8
60°-70°	2483.9	16.4
70°-80°	637.4	4.2
80°-90°	68.2	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°	15187.5	100.0
0°-180°	15187.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637274

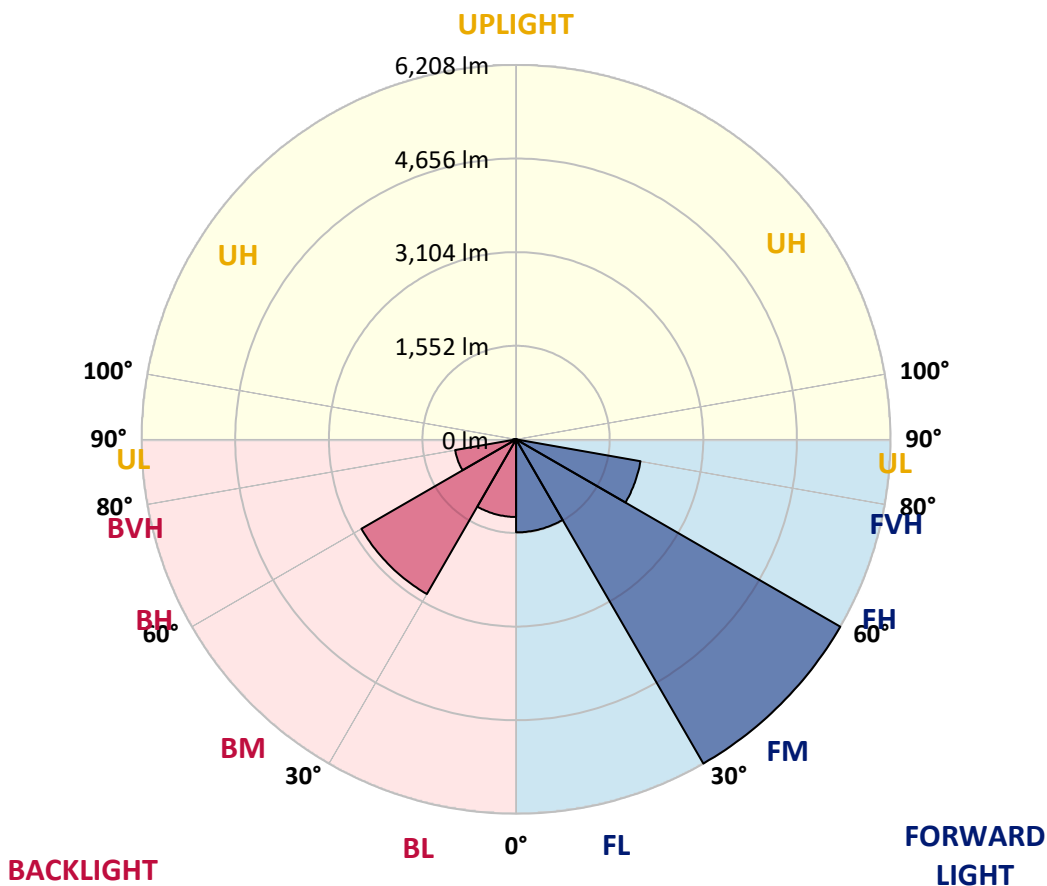
CATALOG NUMBER: GWS-SA4C-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.1	10.2			
FM (30°-60°)	6207.8	40.9			
FH (60°-80°)	2095.4	13.8			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	1286.7	8.5	B3/2500		
BM (30°-60°)	2961.4	19.5	B3/5000		
BH (60°-80°)	1025.9	6.8	B3/2500		G3/2500
BVH (80°-90°)	49.6	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-G3

Type III Short





REPORT NUMBER: P637274

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0
2.5°	3263.3	3285.6	3299.5	3325.9	3373.2	3399.7	3428.9	3396.9	3405.2	3401.1	3349.6
5°	3456.7	3483.2	3519.3	3597.3	3684.9	3733.7	3779.6	3772.6	3729.5	3657.1	3605.6
7.5°	3637.6	3668.2	3730.9	3857.5	3986.9	4062.1	4117.7	4081.6	4045.4	3931.3	3801.8
10°	3779.6	3797.7	3882.6	4052.3	4202.6	4287.5	4355.7	4347.3	4297.2	4169.2	3995.3
12.5°	3913.2	3925.7	4017.5	4187.3	4322.3	4359.9	4415.5	4433.6	4416.9	4320.9	4149.7
15°	4056.5	4080.2	4165.0	4294.5	4355.7	4316.7	4336.2	4386.3	4433.6	4433.6	4276.4
17.5°	4190.1	4211.0	4297.2	4352.9	4294.5	4191.5	4197.1	4261.1	4373.8	4492.1	4391.9
20°	4308.4	4327.9	4412.8	4359.9	4174.8	4024.5	4020.3	4098.2	4280.5	4529.6	4515.7
22.5°	4437.8	4465.6	4536.6	4365.4	4063.5	3872.8	3871.4	3952.1	4198.4	4567.2	4657.7
25°	4621.5	4664.6	4700.8	4414.1	4003.6	3774.0	3792.1	3868.6	4172.0	4628.4	4867.8
27.5°	4894.2	4929.0	4926.2	4515.7	4000.8	3733.7	3771.2	3860.3	4219.3	4737.0	5089.1
30°	5189.3	5207.4	5178.1	4657.7	4064.9	3758.7	3814.4	3920.1	4339.0	4916.5	5414.7
32.5°	5516.3	5538.6	5482.9	4870.6	4213.8	3943.8	4066.2	4117.7	4507.4	5175.3	5759.8
35°	5892.0	5935.2	5819.7	5151.7	4652.1	4618.7	4796.8	4730.0	4865.0	5481.5	6128.6
37.5°	6287.2	6288.6	6123.0	5567.8	5512.1	5569.2	5925.4	5716.7	5623.4	5822.4	6504.3
40°	6622.6	6614.3	6359.6	6128.6	6260.8	6487.6	6917.6	6597.6	6352.6	6280.3	6816.0
42.5°	6958.0	6927.4	6669.9	6484.8	6777.1	7243.3	7728.9	7336.5	6820.2	6696.4	7123.6
45°	7386.6	7376.8	7066.5	6626.8	7243.3	8089.3	8733.7	8097.7	7097.1	6938.5	7635.7
47.5°	8078.2	8030.9	7453.4	6615.6	7680.2	9216.5	10030.6	9056.5	7290.6	6944.1	8462.3
50°	8754.5	8696.1	7915.4	6614.3	8131.1	10385.5	11561.4	10221.3	7488.2	6977.5	9302.8
52.5°	9437.8	9437.8	8673.8	6771.5	8604.2	11690.8	13330.1	11672.7	7824.9	7414.4	10336.8
55°	9844.1	9952.7	9526.9	7037.3	9158.1	13227.1	15079.3	13239.6	8345.4	8203.5	11291.4
57.5°	9327.9	9531.0	9469.8	6852.2	9485.1	14355.7	16562.8	14428.1	8602.8	8296.7	11148.1
60°	7600.9	7883.4	8023.9	5917.1	9162.3	14486.5	16873.1	14506.0	8071.3	7065.1	9549.1
62.5°	5052.9	5285.3	5499.6	4227.7	7932.1	13032.3	14923.5	13036.5	6740.9	5272.8	6615.6
65°	2478.4	2651.0	2882.0	2499.3	6196.8	10889.2	11635.1	10534.4	4876.2	2951.6	3374.6
67.5°	648.5	697.2	729.2	969.9	4439.2	7823.6	7588.4	7705.3	3132.5	964.4	882.3
70°	336.8	339.5	338.2	400.8	3000.3	4972.2	5229.6	4838.6	2186.2	403.6	347.9
72.5°	240.7	242.1	238.0	270.0	1448.7	2848.6	2951.6	2919.6	1145.3	239.4	238.0
75°	157.3	158.6	155.9	158.6	218.5	324.2	299.2	314.5	190.6	151.7	151.7
77.5°	93.2	94.6	93.2	96.0	93.2	93.2	86.3	86.3	82.1	82.1	83.5
80°	62.6	62.6	61.2	64.0	58.4	58.4	55.7	54.3	50.1	48.7	48.7
82.5°	37.6	39.0	37.6	37.6	34.8	34.8	32.0	30.6	26.4	26.4	25.0
85°	19.5	19.5	18.1	18.1	15.3	13.9	11.1	11.1	8.3	7.0	7.0
87.5°	2.8	2.8	1.4	1.4	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	0.0



REPORT NUMBER: P637274

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0
2.5°	3335.7	3307.8	3266.1	3225.7	3188.1	3149.2	3104.7	3058.7	3019.8	2979.4	2958.5
5°	3537.4	3480.4	3371.8	3275.8	3189.5	3118.6	3042.0	2976.6	2915.4	2865.3	2840.2
7.5°	3719.7	3630.7	3466.5	3314.8	3197.9	3100.5	2994.7	2897.3	2815.2	2754.0	2730.3
10°	3888.1	3782.4	3566.7	3374.6	3238.2	3129.7	3000.3	2868.1	2759.5	2678.8	2659.3
12.5°	4024.5	3903.4	3646.0	3423.3	3261.9	3145.0	3030.9	2916.8	2809.6	2705.3	2688.6
15°	4145.6	4002.2	3705.8	3453.9	3253.6	3104.7	3008.6	2994.7	2994.7	2876.4	2843.0
17.5°	4249.9	4092.7	3754.5	3467.9	3200.7	2985.0	2926.5	3047.6	3184.0	3099.1	3023.9
20°	4369.6	4179.0	3794.9	3467.9	3103.3	2833.3	2827.7	3033.7	3235.5	3236.9	3157.5
22.5°	4490.7	4279.2	3842.2	3455.3	2969.7	2657.9	2760.9	2978.0	3157.5	3234.1	3179.8
25°	4686.9	4418.3	3917.3	3445.6	2813.8	2538.3	2701.1	2904.3	3055.9	3136.7	3101.9
27.5°	4936.0	4602.0	4031.5	3460.9	2659.3	2467.3	2637.1	2808.2	2946.0	3017.0	2991.9
30°	5214.3	4813.5	4153.9	3487.3	2548.0	2431.1	2560.5	2698.3	2820.8	2891.7	2880.6
32.5°	5569.2	5043.1	4259.7	3451.2	2485.4	2413.0	2479.8	2578.6	2696.9	2741.4	2751.2
35°	5993.6	5296.4	4340.4	3309.2	2428.3	2393.5	2392.2	2453.4	2536.9	2607.9	2614.8
37.5°	6384.6	5592.8	4429.4	3065.7	2325.4	2344.8	2289.2	2325.4	2407.5	2478.4	2506.3
40°	6771.5	5893.4	4553.3	2755.4	2190.4	2236.3	2170.9	2195.9	2261.3	2354.6	2399.1
42.5°	7147.2	6164.8	4684.1	2438.1	2055.4	2084.6	2035.9	2061.0	2129.1	2246.0	2296.1
45°	7556.4	6532.2	4785.7	2138.9	1938.5	1926.0	1887.0	1923.2	2026.2	2154.2	2214.0
47.5°	8330.1	7111.1	4852.5	1939.9	1875.9	1785.4	1740.9	1818.8	1935.7	2065.1	2137.5
50°	9275.0	7948.8	4833.0	1813.2	1821.6	1640.7	1625.4	1728.4	1853.6	1988.6	2067.9
52.5°	10023.7	8771.2	4611.7	1692.2	1715.8	1548.8	1504.3	1654.6	1774.3	1912.1	1994.2
55°	10595.6	9048.2	3932.6	1548.8	1543.3	1482.0	1388.8	1578.1	1695.0	1823.0	1912.1
57.5°	10129.4	8431.7	2915.4	1351.2	1317.8	1349.8	1259.4	1448.7	1597.6	1724.2	1803.5
60°	8406.6	6722.8	1624.0	1196.8	1102.1	1180.1	1166.2	1312.3	1491.8	1625.4	1693.6
62.5°	5706.9	4476.8	963.0	946.3	893.4	1004.7	1078.5	1174.5	1351.2	1459.8	1523.8
65°	2844.4	2175.1	640.1	708.3	715.3	826.6	965.8	1071.5	1219.0	1330.4	1394.4
67.5°	825.2	676.3	487.1	541.3	616.5	705.5	816.9	942.1	1085.4	1217.6	1292.8
70°	356.2	360.4	386.9	450.9	524.6	616.5	727.8	850.3	971.3	1072.9	1130.0
72.5°	251.9	261.6	290.8	356.2	425.8	513.5	624.8	743.1	830.8	933.8	993.6
75°	161.4	168.4	192.0	242.1	293.6	378.5	484.3	592.8	683.3	757.0	814.1
77.5°	89.1	90.5	109.9	139.2	173.9	228.2	306.2	391.0	457.8	499.6	551.1
80°	51.5	51.5	61.2	79.3	100.2	133.6	176.7	218.5	258.8	285.3	310.3
82.5°	27.8	27.8	32.0	43.1	54.3	73.8	98.8	119.7	144.7	158.6	175.3
85°	8.3	8.3	11.1	15.3	19.5	27.8	39.0	50.1	61.2	71.0	80.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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: P637274

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0
2.5°	2954.4	2934.9	2923.7	2909.8	2914.0	2901.5	2894.5	2898.7	2873.6	2898.7	2923.7
5°	2830.5	2802.7	2780.4	2762.3	2754.0	2737.3	2727.5	2727.5	2712.2	2737.3	2767.9
7.5°	2722.0	2699.7	2688.6	2677.4	2664.9	2649.6	2632.9	2627.3	2617.6	2644.0	2670.5
10°	2649.6	2652.4	2659.3	2674.6	2671.9	2662.1	2637.1	2623.2	2623.2	2653.8	2694.1
12.5°	2683.0	2712.2	2728.9	2756.8	2762.3	2754.0	2728.9	2717.8	2745.6	2791.5	2858.3
15°	2812.4	2831.9	2845.8	2868.1	2866.7	2859.7	2840.2	2848.6	2940.4	3029.5	3089.3
17.5°	2953.0	2930.7	2927.9	2941.8	2946.0	2937.7	2926.5	2964.1	3115.8	3199.3	3229.9
20°	3054.6	2978.0	2961.3	2966.9	2978.0	2973.8	2973.8	3035.1	3192.3	3231.3	3192.3
22.5°	3085.2	2976.6	2951.6	2953.0	2968.3	2969.7	2976.6	3040.6	3132.5	3133.9	3074.0
25°	3036.5	2932.1	2914.0	2916.8	2934.9	2933.5	2936.3	2972.4	3012.8	2996.1	2951.6
27.5°	2944.6	2854.2	2848.6	2863.9	2887.6	2875.0	2866.7	2876.4	2895.9	2875.0	2836.1
30°	2840.2	2763.7	2766.5	2795.7	2820.8	2799.9	2779.0	2784.6	2786.0	2763.7	2719.2
32.5°	2730.3	2673.3	2683.0	2713.6	2742.8	2720.6	2698.3	2695.5	2669.1	2642.6	2599.5
35°	2620.4	2598.1	2610.6	2635.7	2660.7	2642.6	2628.7	2620.4	2563.3	2524.4	2488.2
37.5°	2520.2	2536.9	2559.1	2574.5	2582.8	2581.4	2573.1	2553.6	2478.4	2432.5	2385.2
40°	2431.1	2482.6	2506.3	2513.2	2525.7	2523.0	2521.6	2493.7	2394.9	2346.2	2292.0
42.5°	2350.4	2422.8	2463.1	2470.1	2477.0	2478.4	2474.3	2433.9	2321.2	2264.1	2212.6
45°	2272.5	2367.1	2418.6	2411.6	2421.4	2421.4	2425.6	2372.7	2248.8	2190.4	2136.1
47.5°	2204.3	2315.6	2362.9	2354.6	2360.1	2364.3	2368.5	2307.3	2169.5	2113.8	2058.2
50°	2141.7	2260.0	2300.3	2303.1	2303.1	2312.8	2311.4	2251.6	2102.7	2042.9	1987.2
52.5°	2074.9	2202.9	2246.0	2264.1	2269.7	2273.9	2254.4	2184.8	2034.5	1962.1	1910.7
55°	1996.9	2144.4	2183.4	2207.1	2218.2	2215.4	2189.0	2118.0	1964.9	1892.6	1834.1
57.5°	1878.7	2019.2	2074.9	2086.0	2104.1	2093.0	2062.3	2002.5	1853.6	1781.2	1721.4
60°	1749.2	1850.8	1895.4	1905.1	1891.2	1895.4	1891.2	1834.1	1704.7	1647.6	1586.4
62.5°	1579.5	1669.9	1717.2	1729.8	1706.1	1721.4	1715.8	1644.9	1515.4	1455.6	1401.3
65°	1451.4	1550.2	1605.9	1612.9	1605.9	1612.9	1593.4	1507.1	1384.6	1323.4	1267.7
67.5°	1351.2	1452.8	1511.3	1530.8	1523.8	1522.4	1491.8	1391.6	1265.0	1198.2	1127.2
70°	1178.7	1267.7	1342.9	1390.2	1390.2	1363.8	1305.3	1212.1	1110.5	1053.4	997.8
72.5°	1043.7	1156.4	1230.2	1278.9	1288.6	1273.3	1191.2	1092.4	975.5	918.5	860.0
75°	860.0	969.9	1049.3	1113.3	1125.8	1109.1	1014.5	917.1	808.5	752.9	694.4
77.5°	574.7	640.1	704.1	762.6	750.1	761.2	697.2	623.4	556.6	514.9	488.5
80°	324.2	367.4	386.9	418.9	418.9	418.9	377.1	342.3	304.8	281.1	254.7
82.5°	183.7	211.5	219.9	246.3	253.3	254.7	226.8	204.6	180.9	168.4	150.3
85°	84.9	100.2	101.6	116.9	122.5	133.6	121.1	105.8	91.8	86.3	75.1
87.5°	2.8	8.3	11.1	20.9	27.8	32.0	34.8	34.8	29.2	26.4	22.3
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: P637274

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0
2.5°	2954.4	2987.8	3026.7	3054.6	3104.7	3146.4	3189.5	3236.9	3271.6	3263.3
5°	2805.5	2861.1	2932.1	2997.5	3090.7	3185.4	3289.7	3396.9	3459.5	3456.7
7.5°	2722.0	2801.3	2887.6	2975.2	3085.2	3221.5	3381.6	3548.6	3633.5	3637.6
10°	2766.5	2851.4	2909.8	2983.6	3099.1	3270.2	3462.3	3662.7	3760.1	3779.6
12.5°	2907.0	2900.1	2895.9	2948.8	3088.0	3305.0	3540.2	3779.6	3889.5	3913.2
15°	3040.6	2897.3	2811.0	2847.2	3037.9	3327.3	3616.8	3907.6	4031.5	4056.5
17.5°	3065.7	2848.6	2688.6	2713.6	2958.5	3334.3	3690.5	4032.8	4166.4	4190.1
20°	2996.1	2786.0	2599.5	2564.7	2858.3	3316.2	3736.4	4137.2	4283.3	4308.4
22.5°	2908.4	2730.3	2532.7	2442.3	2735.9	3298.1	3787.9	4247.2	4415.5	4437.8
25°	2816.6	2659.3	2470.1	2332.3	2596.7	3286.9	3874.2	4391.9	4595.0	4621.5
27.5°	2719.2	2573.1	2415.8	2279.4	2468.7	3300.9	3996.7	4625.7	4856.7	4894.2
30°	2614.8	2486.8	2381.0	2261.3	2381.0	3313.4	4131.6	4865.0	5136.4	5189.3
32.5°	2506.3	2407.5	2344.8	2269.7	2326.7	3284.2	4249.9	5133.6	5470.4	5516.3
35°	2397.7	2326.7	2298.9	2285.0	2254.4	3177.0	4346.0	5405.0	5851.7	5892.0
37.5°	2296.1	2243.3	2234.9	2250.2	2143.1	3001.7	4457.3	5750.1	6226.0	6287.2
40°	2201.5	2152.8	2151.4	2148.6	2020.6	2762.3	4607.6	6100.8	6594.8	6622.6
42.5°	2113.8	2052.6	2063.7	2030.3	1920.4	2503.5	4749.5	6399.9	6938.5	6958.0
45°	2035.9	1955.2	1967.7	1926.0	1873.1	2232.1	4874.8	6753.4	7374.1	7386.6
47.5°	1960.8	1874.5	1839.7	1836.9	1864.7	1981.6	4997.2	7433.9	8055.9	8078.2
50°	1891.2	1797.9	1699.1	1760.4	1813.2	1793.8	5150.3	8163.1	8760.1	8754.5
52.5°	1824.4	1701.9	1561.4	1679.7	1679.7	1654.6	5107.2	8605.6	9341.8	9437.8
55°	1747.8	1547.5	1418.0	1544.7	1483.4	1529.4	4343.2	8750.4	9707.8	9844.1
57.5°	1596.2	1356.8	1244.1	1312.3	1220.4	1418.0	3120.0	8032.3	9085.7	9327.9
60°	1450.0	1216.3	1142.5	1130.0	1010.3	1156.4	2022.0	6288.6	7478.4	7600.9
62.5°	1278.9	1095.2	1032.6	936.5	812.7	841.9	1224.6	4138.6	5025.1	5052.9
65°	1149.5	992.2	872.5	758.4	665.2	610.9	723.6	1995.5	2511.8	2478.4
67.5°	986.6	850.3	736.2	654.0	577.5	509.3	481.5	592.8	670.7	648.5
70°	878.1	747.3	637.4	559.4	488.5	420.3	371.6	349.3	342.3	336.8
72.5°	757.0	642.9	528.8	453.7	386.9	324.2	279.7	253.3	246.3	240.7
75°	604.0	496.8	392.4	321.5	263.0	218.5	189.3	167.0	162.8	157.3
77.5°	399.4	318.7	233.8	190.6	155.9	132.2	112.7	98.8	96.0	93.2
80°	219.9	183.7	143.3	115.5	93.2	80.7	73.8	65.4	64.0	62.6
82.5°	130.8	109.9	82.1	65.4	54.3	48.7	44.5	40.4	39.0	37.6
85°	65.4	51.5	36.2	30.6	27.8	25.0	25.0	20.9	19.5	19.5
87.5°	16.7	13.9	8.3	7.0	7.0	7.0	5.6	4.2	4.2	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)