

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: P643213

Luminaire Tested: GWS-SA6E-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23881.7 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

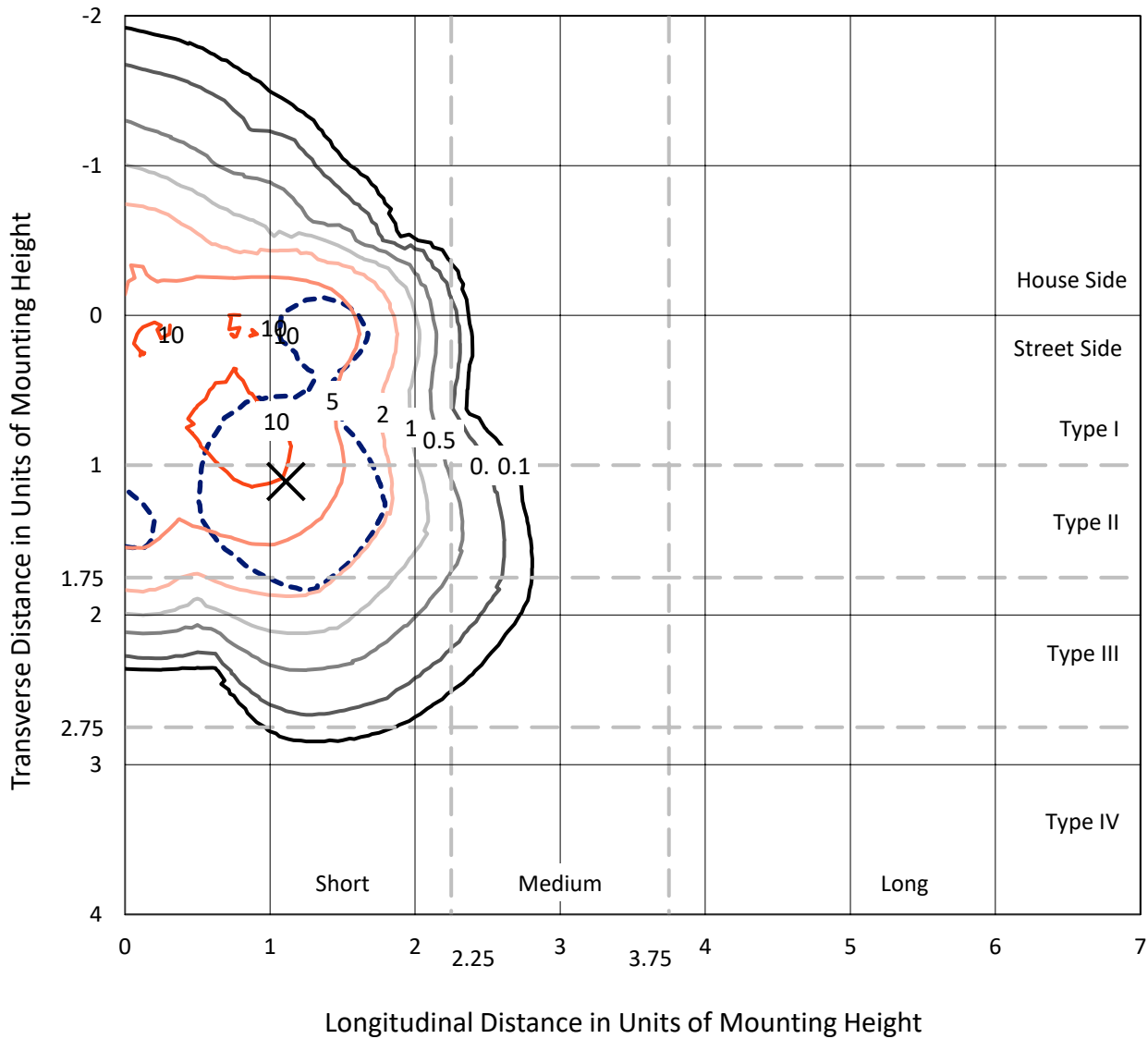
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

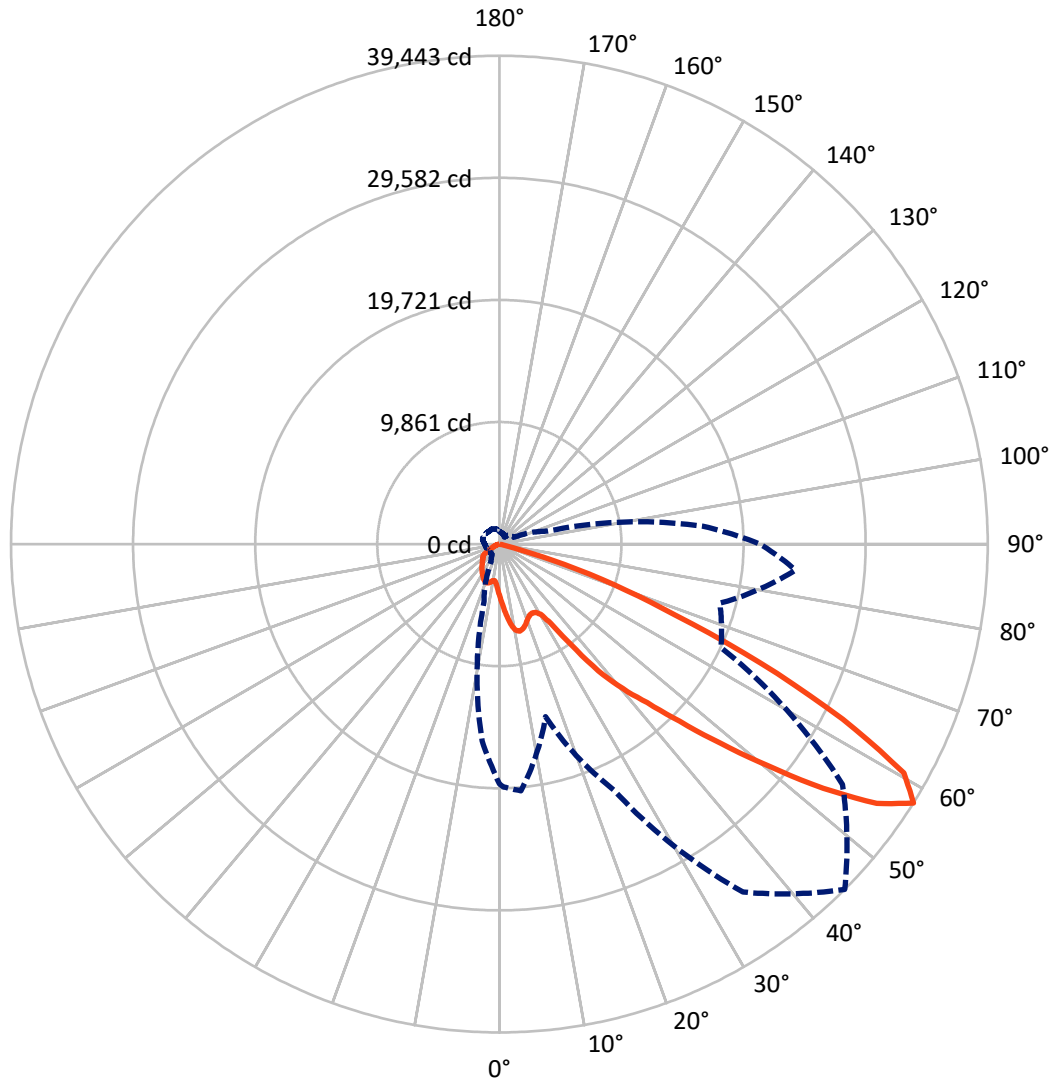
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5347.7	0.0	5347.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18534.0	0.0	18534.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	23881.7	0.0	23881.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.9	1.7
10°-20°	1335.8	5.6
20°-30°	2170.0	9.1
30°-40°	3352.9	14.0
40°-50°	5376.4	22.5
50°-60°	7348.1	30.8
60°-70°	3558.9	14.9
70°-80°	325.9	1.4
80°-90°	0.9	0.0
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°	23881.7	100.0
0°-180°	23881.7	100.0

Coefficient of Utilization



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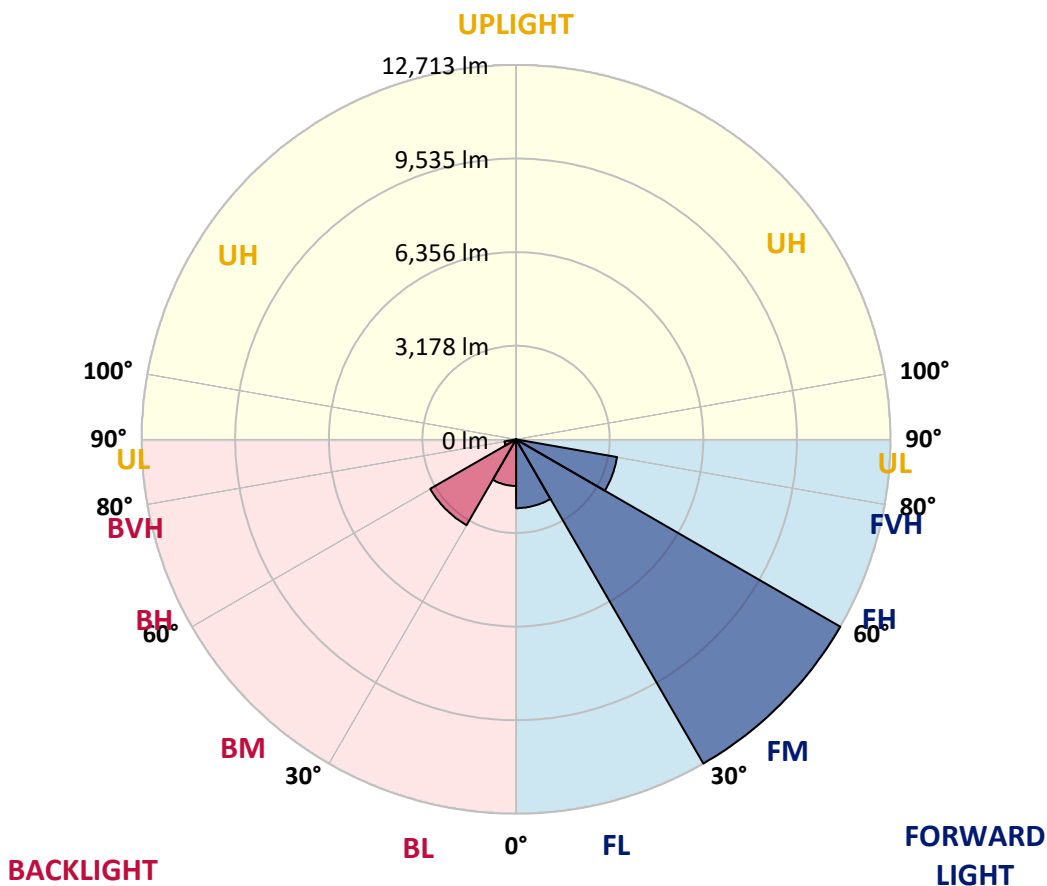
CATALOG NUMBER: GWS-SA6E-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.4	9.8			
FM (30°-60°)	12712.8	53.2			
FH (60°-80°)	3483.9	14.6			G2/5000
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	1582.3	6.6	B3/2500		
BM (30°-60°)	3364.6	14.1	B3/5000		
BH (60°-80°)	400.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5
2.5°	4547.3	4576.1	4624.3	4727.0	4813.6	4871.4	4897.0	4890.6	4855.3	4829.7	4778.3
5°	5035.0	5035.0	5128.1	5362.4	5542.1	5654.4	5712.1	5676.8	5606.2	5493.9	5320.6
7.5°	5461.8	5477.9	5635.1	5968.9	6241.6	6402.1	6495.2	6475.9	6350.8	6135.7	5789.2
10°	5795.6	5814.8	6023.4	6431.0	6751.9	6915.5	7053.5	7066.4	6928.4	6642.8	6244.9
12.5°	6119.7	6139.0	6357.2	6748.7	7031.1	7098.5	7220.4	7268.5	7233.2	7031.1	6617.1
15°	6469.5	6514.4	6700.5	6992.6	7111.3	7031.1	7111.3	7197.9	7316.7	7297.4	6925.2
17.5°	6812.9	6844.9	7034.3	7137.0	7005.4	6796.8	6835.3	6938.0	7207.6	7470.7	7230.0
20°	7130.6	7175.5	7332.7	7197.9	6800.0	6475.9	6479.1	6613.9	7024.7	7576.6	7541.3
22.5°	7464.3	7531.7	7644.0	7265.3	6610.7	6222.4	6238.4	6360.4	6880.2	7676.1	7894.3
25°	7900.7	7964.9	8038.7	7432.2	6549.7	6097.2	6158.2	6270.5	6880.2	7846.2	8330.7
27.5°	8491.2	8536.1	8539.3	7743.5	6655.6	6116.5	6244.9	6373.2	7085.6	8186.3	8914.8
30°	9232.5	9303.1	9210.0	8228.1	6986.1	6373.2	6562.6	6723.0	7528.5	8760.8	9774.8
32.5°	10134.2	10233.7	10108.6	8946.9	7676.1	7258.9	7602.3	7695.4	8234.5	9591.9	10750.4
35°	11193.2	11276.7	11141.9	9941.7	9287.1	9364.1	9986.6	9867.9	9652.9	10615.6	11889.6
37.5°	12354.9	12431.9	12172.0	11450.0	11668.2	12001.9	12996.7	12589.2	11896.0	11934.5	13125.1
40°	13420.3	13503.8	13096.2	13089.8	13539.1	14148.8	15349.0	14787.4	13843.9	13661.0	14283.6
42.5°	14524.3	14582.0	14213.0	13962.7	14983.2	16237.9	17508.7	16751.4	15134.0	14935.0	15734.1
45°	16099.9	16221.9	15564.0	14392.7	16282.8	18641.5	20412.9	18933.5	16013.3	15852.8	17954.8
47.5°	18416.9	18506.7	17165.3	14662.2	17492.6	21635.6	24042.4	21763.9	16786.7	16420.8	20990.5
50°	20332.7	20393.6	18638.3	14957.5	18779.5	24863.9	28178.9	25120.6	17656.3	17361.1	23824.1
52.5°	21744.7	21975.7	20573.4	15564.0	20470.7	28660.2	32758.2	29096.6	19013.7	19177.4	26173.2
55°	22036.7	22351.2	21895.5	15936.2	21959.7	32527.1	36987.8	32655.5	20368.0	20554.1	26962.6
57.5°	19366.7	19617.1	19995.7	14434.4	21924.4	34298.6	39442.7	33836.4	19751.8	18432.9	24007.1
60°	14508.2	14681.5	15368.2	11032.8	20162.6	32732.5	37530.1	31827.6	17271.2	14065.4	18291.7
62.5°	8603.5	8680.5	9550.2	7146.6	16735.3	28188.5	31124.8	27463.2	13648.2	9460.3	11202.9
65°	3302.1	3270.0	3934.3	3526.8	12306.8	22453.9	23150.2	20936.0	9364.1	4335.5	4271.3
67.5°	510.2	487.8	657.9	1042.9	8876.3	15560.8	15275.2	15089.1	5866.2	1010.9	882.5
70°	115.5	115.5	141.2	308.1	5423.3	9142.6	9784.5	9328.8	3754.6	215.0	115.5
72.5°	54.6	54.6	67.4	131.6	1964.0	3767.4	4390.0	4322.6	1219.4	70.6	41.7
75°	19.3	22.5	22.5	28.9	118.7	195.8	449.3	320.9	77.0	0.0	0.0
77.5°	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5
2.5°	4666.0	4643.5	4560.1	4447.8	4338.7	4242.4	4142.9	4024.2	3937.5	3838.0	3806.0
5°	5185.9	5044.7	4816.8	4579.3	4361.1	4175.0	3995.3	3802.7	3661.6	3520.4	3472.2
7.5°	5625.5	5416.9	5047.9	4691.7	4393.2	4130.1	3870.1	3607.0	3401.6	3234.7	3183.4
10°	6020.2	5779.5	5285.3	4845.7	4470.2	4165.4	3850.9	3520.4	3254.0	3055.0	3006.9
12.5°	6360.4	6081.2	5487.5	4961.2	4502.3	4152.5	3847.7	3584.5	3343.9	3116.0	3055.0
15°	6646.0	6337.9	5657.6	5038.2	4454.2	3992.1	3725.7	3684.0	3664.8	3414.5	3295.7
17.5°	6925.2	6578.6	5795.6	5073.5	4319.4	3709.7	3517.1	3706.5	3908.6	3745.0	3594.2
20°	7217.2	6822.5	5936.8	5080.0	4094.8	3392.0	3359.9	3658.3	3915.1	3863.7	3722.5
22.5°	7560.6	7127.3	6113.3	5076.8	3812.4	3122.4	3244.4	3565.3	3773.9	3770.7	3658.3
25°	8058.0	7512.4	6350.8	5096.0	3504.3	2913.8	3116.0	3408.0	3578.1	3571.7	3478.6
27.5°	8590.7	7971.3	6658.8	5144.1	3241.2	2791.9	2965.2	3193.0	3340.6	3334.2	3254.0
30°	9338.4	8500.8	6954.1	5147.4	3051.8	2727.7	2798.3	2955.6	3096.8	3080.7	3019.7
32.5°	10246.6	9097.7	7201.2	4964.4	2933.1	2666.7	2625.0	2705.2	2814.4	2791.9	2775.8
35°	11344.1	9806.9	7413.0	4563.3	2750.2	2544.8	2432.5	2448.5	2525.5	2538.4	2532.0
37.5°	12595.6	10650.9	7676.1	4033.8	2503.1	2368.3	2217.5	2204.6	2249.6	2291.3	2323.4
40°	13831.1	11600.8	8032.3	3497.9	2278.4	2143.7	1999.3	1967.2	1986.4	2060.2	2127.6
42.5°	15220.6	12701.5	8417.4	3039.0	2124.4	1896.6	1758.6	1697.6	1752.2	1870.9	1951.1
45°	17223.1	14245.1	8792.9	2673.2	2060.2	1678.3	1492.2	1485.8	1546.8	1700.8	1790.7
47.5°	20034.2	16241.1	9040.0	2387.5	2057.0	1508.3	1286.8	1325.3	1395.9	1546.8	1649.5
50°	22774.8	18741.0	8767.2	2169.3	1989.6	1395.9	1132.8	1209.8	1280.4	1412.0	1517.9
52.5°	24427.4	20085.6	7705.0	1964.0	1781.0	1344.6	982.0	1116.8	1129.6	1248.3	1360.6
55°	24254.2	19215.9	5901.5	1646.3	1473.0	1270.8	824.7	1007.6	1014.1	1103.9	1200.2
57.5°	21051.5	16497.8	4053.1	1335.0	1107.1	1049.4	680.3	850.4	911.4	965.9	1036.5
60°	15689.1	12037.2	1806.7	1084.7	702.8	709.2	580.8	641.8	734.9	799.1	860.0
62.5°	9245.3	6925.2	734.9	651.4	388.3	446.1	468.5	468.5	526.3	574.4	612.9
65°	3494.7	2422.8	298.4	327.3	202.2	208.6	276.0	340.2	385.1	426.8	478.2
67.5°	612.9	423.6	154.0	121.9	118.7	105.9	141.2	221.4	247.1	279.2	301.7
70°	102.7	86.6	64.2	61.0	54.6	57.8	93.1	157.2	173.3	182.9	192.5
72.5°	28.9	25.7	19.3	16.0	12.8	16.0	57.8	121.9	128.4	134.8	144.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	22.5	86.6	93.1	96.3	105.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3	25.7	32.1	25.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5
2.5°	3786.7	3722.5	3687.2	3668.0	3668.0	3642.3	3613.4	3603.8	3645.5	3645.5	3716.1
5°	3411.2	3359.9	3302.1	3266.8	3212.3	3221.9	3189.8	3186.6	3228.3	3247.6	3321.4
7.5°	3151.3	3087.1	3051.8	3029.4	3000.5	2987.6	2958.8	2949.1	2971.6	3003.7	3074.3
10°	2978.0	2968.4	2965.2	2981.2	2981.2	2965.2	2939.5	2923.5	2929.9	2990.9	3071.1
12.5°	3022.9	3042.2	3048.6	3074.3	3087.1	3074.3	3055.0	3061.5	3103.2	3215.5	3334.2
15°	3218.7	3202.7	3196.2	3209.1	3218.7	3205.9	3199.4	3247.6	3392.0	3552.4	3687.2
17.5°	3427.3	3324.6	3279.7	3279.7	3286.1	3279.7	3286.1	3379.2	3613.4	3773.9	3873.3
20°	3533.2	3343.9	3273.3	3257.2	3270.0	3273.3	3295.7	3401.6	3658.3	3770.7	3793.1
22.5°	3501.1	3263.6	3183.4	3170.6	3183.4	3196.2	3218.7	3308.6	3549.2	3607.0	3597.4
25°	3340.6	3106.4	3042.2	3042.2	3071.1	3067.9	3077.5	3141.7	3340.6	3375.9	3359.9
27.5°	3138.5	2917.0	2862.5	2894.6	2920.3	2913.8	2917.0	2971.6	3119.2	3128.8	3112.8
30°	2933.1	2740.5	2689.2	2727.7	2763.0	2756.6	2759.8	2814.4	2907.4	2897.8	2875.3
32.5°	2724.5	2583.3	2544.8	2567.3	2621.8	2615.4	2628.2	2686.0	2721.3	2679.6	2653.9
35°	2532.0	2458.1	2429.3	2442.1	2483.8	2493.4	2515.9	2554.4	2554.4	2503.1	2458.1
37.5°	2352.2	2342.6	2323.4	2307.3	2345.8	2374.7	2406.8	2451.7	2387.5	2313.7	2272.0
40°	2185.4	2227.1	2201.4	2159.7	2182.2	2223.9	2288.1	2323.4	2246.3	2172.5	2101.9
42.5°	2031.3	2101.9	2092.3	2041.0	2060.2	2098.7	2172.5	2201.4	2111.6	2028.1	1960.7
45°	1883.7	1983.2	1989.6	1925.4	1944.7	1983.2	2069.9	2079.5	1964.0	1874.1	1826.0
47.5°	1755.4	1864.5	1867.7	1819.5	1826.0	1880.5	1960.7	1964.0	1832.4	1748.9	1688.0
50°	1633.4	1758.6	1768.2	1726.5	1732.9	1797.1	1864.5	1851.6	1710.4	1623.8	1569.2
52.5°	1485.8	1655.9	1678.3	1659.1	1684.8	1736.1	1777.8	1732.9	1569.2	1482.6	1434.5
55°	1325.3	1546.8	1594.9	1582.1	1611.0	1652.7	1662.3	1633.4	1428.0	1341.4	1296.5
57.5°	1139.2	1274.0	1357.4	1331.8	1354.2	1395.9	1424.8	1402.4	1248.3	1180.9	1142.4
60°	943.5	1033.3	1052.6	1010.9	991.6	1065.4	1132.8	1103.9	972.3	930.6	885.7
62.5°	690.0	792.6	805.5	750.9	728.5	808.7	866.4	837.6	693.2	648.2	612.9
65°	552.0	648.2	673.9	622.6	609.7	670.7	706.0	635.4	532.7	484.6	446.1
67.5°	362.6	439.6	507.0	503.8	478.2	497.4	471.7	414.0	340.2	314.5	288.8
70°	224.6	269.6	311.3	327.3	324.1	317.7	282.4	240.7	218.2	208.6	195.8
72.5°	173.3	218.2	250.3	259.9	263.1	253.5	224.6	186.1	163.7	150.8	141.2
75°	128.4	163.7	189.3	202.2	208.6	202.2	173.3	147.6	125.2	115.5	105.9
77.5°	44.9	54.6	67.4	73.8	70.6	67.4	61.0	61.0	48.1	44.9	38.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P643213

CATALOG NUMBER: GWS-SA6E-740-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5	4197.5
2.5°	3796.3	3854.1	3960.0	4056.3	4159.0	4264.9	4380.4	4499.1	4553.7	4547.3
5°	3433.7	3558.9	3732.1	3921.5	4133.3	4361.1	4614.6	4874.6	4986.9	5035.0
7.5°	3205.9	3382.4	3610.2	3850.9	4130.1	4454.2	4836.1	5243.6	5407.3	5461.8
10°	3234.7	3440.1	3629.5	3863.7	4162.2	4582.6	5057.5	5542.1	5734.6	5795.6
12.5°	3469.0	3513.9	3565.3	3757.8	4133.3	4678.8	5259.7	5837.3	6058.7	6119.7
15°	3680.8	3472.2	3375.9	3552.4	4030.6	4746.2	5465.0	6155.0	6398.9	6469.5
17.5°	3690.4	3375.9	3160.9	3298.9	3863.7	4775.1	5667.2	6479.1	6745.5	6812.9
20°	3571.7	3270.0	2994.1	2997.3	3635.9	4768.7	5834.1	6771.1	7069.6	7130.6
22.5°	3398.4	3144.9	2859.3	2759.8	3392.0	4755.8	6017.0	7082.4	7406.5	7464.3
25°	3205.9	2984.4	2730.9	2580.1	3148.1	4768.7	6273.7	7490.0	7846.2	7900.7
27.5°	2997.3	2807.9	2631.4	2509.5	2942.7	4816.8	6581.8	8009.8	8433.4	8491.2
30°	2779.1	2637.9	2567.3	2493.4	2814.4	4829.7	6915.5	8616.4	9152.3	9232.5
32.5°	2564.0	2487.0	2490.2	2503.1	2692.4	4739.8	7220.4	9290.3	10005.9	10134.2
35°	2365.1	2342.6	2406.8	2471.0	2515.9	4508.7	7486.8	10086.1	11061.7	11193.2
37.5°	2195.0	2214.3	2294.5	2358.7	2323.4	4181.4	7839.8	11080.9	12242.6	12354.9
40°	2031.3	2079.5	2172.5	2201.4	2175.8	3799.5	8263.4	12040.4	13266.3	13420.3
42.5°	1880.5	1915.8	2047.4	2053.8	2134.0	3411.2	8670.9	13073.8	14444.0	14524.3
45°	1758.6	1752.2	1886.9	1928.7	2188.6	2981.2	9068.8	14450.4	15984.4	16099.9
47.5°	1639.8	1633.4	1665.5	1854.8	2211.1	2583.3	9463.6	16465.7	18217.9	18416.9
50°	1527.5	1537.1	1437.7	1819.5	2089.1	2278.4	9643.3	18330.2	20249.2	20332.7
52.5°	1428.0	1392.7	1219.4	1704.0	1829.2	1989.6	9133.0	19177.4	21507.2	21744.7
55°	1286.8	1091.1	1004.4	1383.1	1444.1	1736.1	7480.3	18686.4	21616.3	22036.7
57.5°	1100.7	856.8	853.6	1020.5	1020.5	1611.0	4791.1	15965.1	18628.7	19366.7
60°	847.2	664.3	706.0	709.2	654.7	1174.5	2689.2	11565.5	13773.3	14508.2
62.5°	603.3	507.0	532.7	423.6	375.5	587.3	1290.0	6658.8	8500.8	8603.5
65°	404.3	343.4	279.2	234.3	231.1	250.3	532.7	2406.8	2926.7	3302.1
67.5°	266.4	208.6	147.6	147.6	166.9	166.9	202.2	397.9	558.4	510.2
70°	173.3	144.4	93.1	89.9	109.1	109.1	102.7	109.1	115.5	115.5
72.5°	128.4	109.1	54.6	48.1	61.0	64.2	57.8	54.6	54.6	54.6
75°	96.3	77.0	32.1	22.5	28.9	38.5	32.1	22.5	22.5	19.3
77.5°	38.5	28.9	12.8	9.6	16.0	22.5	19.3	9.6	6.4	6.4
80°	3.2	6.4	6.4	6.4	9.6	12.8	16.0	6.4	3.2	3.2
82.5°	0.0	3.2	3.2	3.2	6.4	9.6	12.8	6.4	3.2	3.2
85°	0.0	0.0	0.0	0.0	6.4	9.6	6.4	3.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	3.2	9.6	6.4	3.2	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)