

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: P635734

Luminaire Tested: GWS-SA3E-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635734
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-SA3E-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16970.2 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

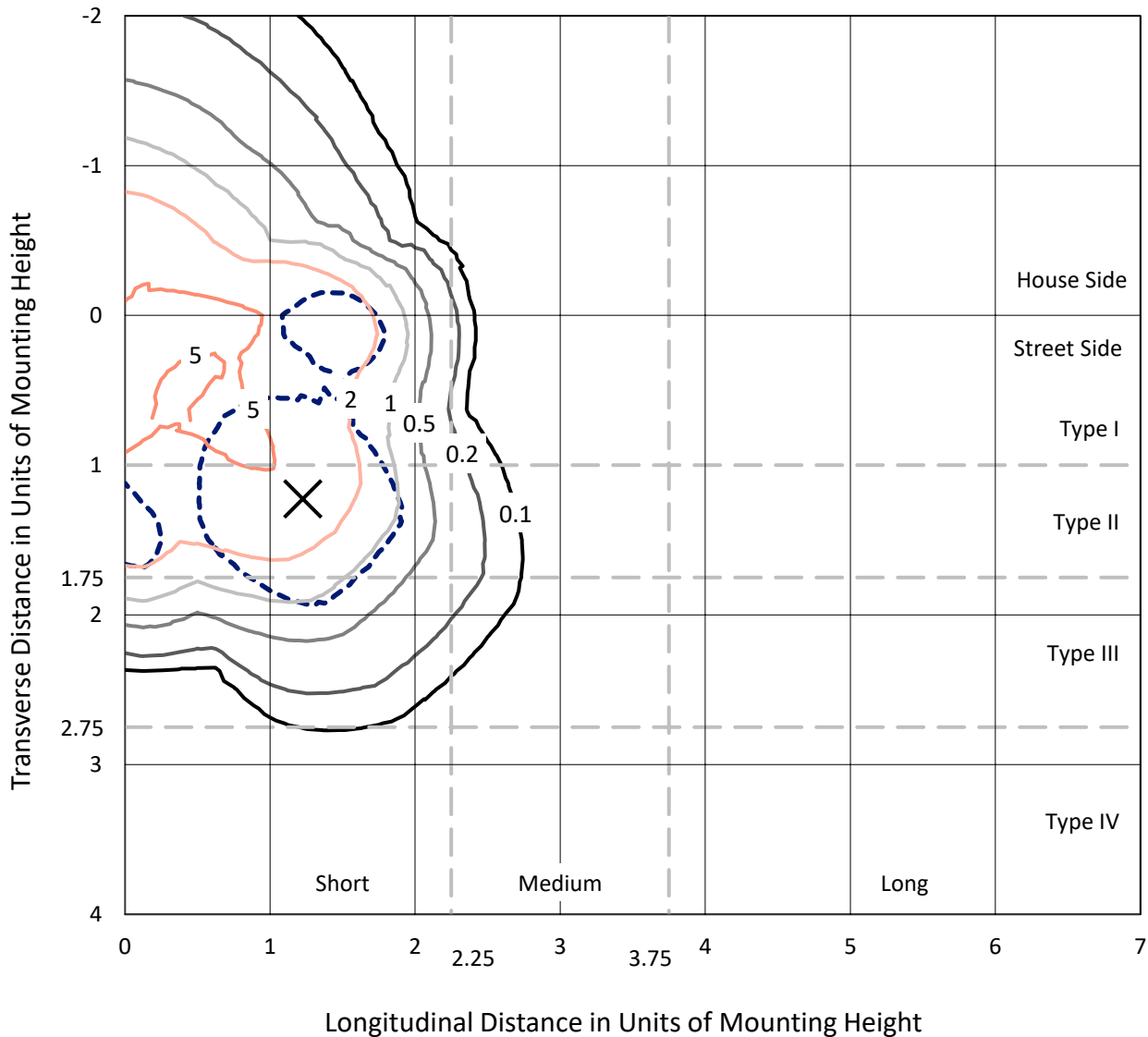
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

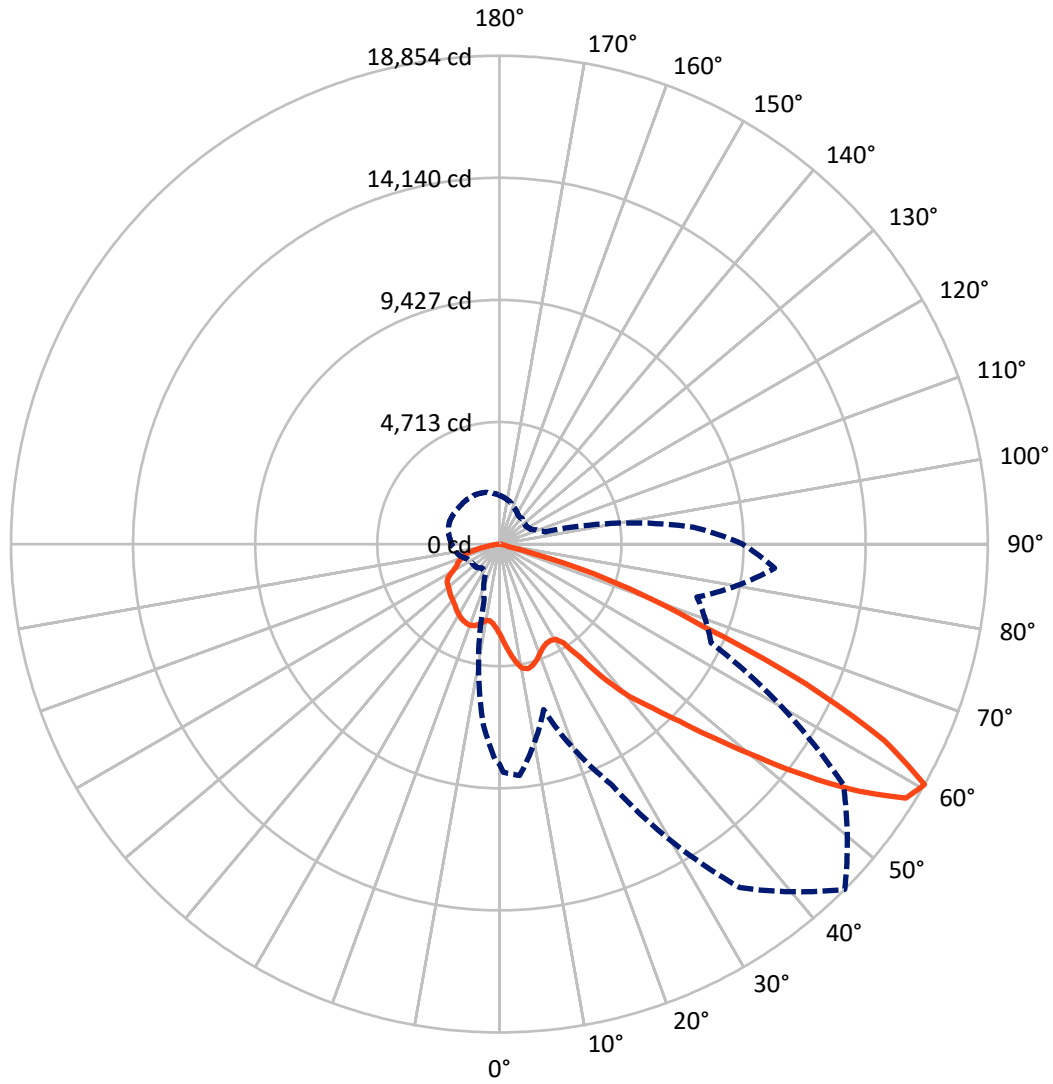
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5948.7	0.0	5948.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	11021.5	0.0	11021.5
	% Fixture	64.9	0.0	64.9
Total	Lumens	16970.2	0.0	16970.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	2.0
10°-20°	1074.8	6.3
20°-30°	1745.9	10.3
30°-40°	2462.3	14.5
40°-50°	3402.8	20.1
50°-60°	4380.4	25.8
60°-70°	2775.5	16.4
70°-80°	712.2	4.2
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°	16970.2	100.0
0°-180°	16970.2	100.0

Coefficient of Utilization



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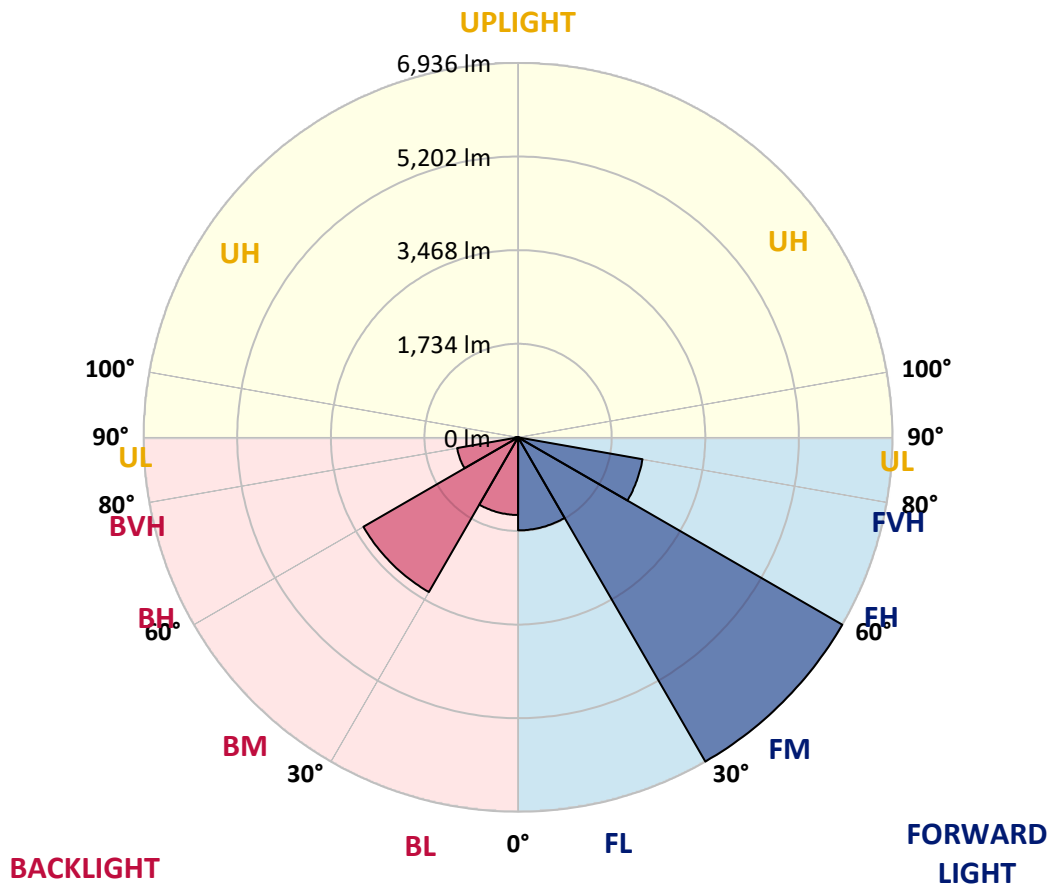
CATALOG NUMBER: GWS-SA3E-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.1	10.2			
FM (30°-60°)	6936.4	40.9			
FH (60°-80°)	2341.3	13.8			G2/5000
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1437.8	8.5	B3/2500		
BM (30°-60°)	3309.1	19.5	B3/5000		
BH (60°-80°)	1146.4	6.8	B3/2500		G3/2500
BVH (80°-90°)	55.5	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°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	3646.3	3671.2	3686.8	3716.3	3769.2	3798.7	3831.4	3795.6	3804.9	3800.3	3742.7
5°	3862.5	3892.0	3932.4	4019.5	4117.5	4171.9	4223.2	4215.4	4167.2	4086.4	4028.9
7.5°	4064.6	4098.8	4168.8	4310.3	4454.9	4538.9	4601.1	4560.6	4520.2	4392.7	4248.1
10°	4223.2	4243.4	4338.3	4528.0	4695.9	4790.8	4867.0	4857.6	4801.7	4658.6	4464.2
12.5°	4372.5	4386.5	4489.1	4678.8	4829.6	4871.6	4933.8	4954.0	4935.4	4828.1	4636.8
15°	4532.7	4559.1	4653.9	4798.5	4867.0	4823.4	4845.2	4901.2	4954.0	4954.0	4778.3
17.5°	4681.9	4705.2	4801.7	4863.9	4798.5	4683.5	4689.7	4761.2	4887.2	5019.3	4907.4
20°	4814.1	4835.9	4930.7	4871.6	4664.8	4496.9	4492.2	4579.3	4783.0	5061.3	5045.8
22.5°	4958.7	4989.8	5069.1	4877.8	4540.4	4327.4	4325.8	4416.0	4691.3	5103.3	5204.4
25°	5164.0	5212.2	5252.6	4932.3	4473.6	4217.0	4237.2	4322.7	4661.7	5171.7	5439.2
27.5°	5468.7	5507.6	5504.5	5045.8	4470.5	4171.9	4213.9	4313.4	4714.6	5293.0	5686.4
30°	5798.4	5818.6	5785.9	5204.4	4542.0	4199.9	4262.1	4380.3	4848.3	5493.6	6050.3
32.5°	6163.8	6188.7	6126.5	5442.3	4708.4	4406.7	4543.5	4601.1	5036.5	5782.8	6435.9
35°	6583.6	6631.8	6502.8	5756.4	5198.2	5160.8	5359.9	5285.2	5436.1	6124.9	6848.0
37.5°	7025.2	7026.8	6841.7	6221.3	6159.1	6222.9	6620.9	6387.7	6283.5	6505.9	7267.8
40°	7400.0	7390.6	7106.1	6848.0	6995.7	7249.1	7729.6	7372.0	7098.3	7017.4	7616.1
42.5°	7774.7	7740.5	7452.8	7246.0	7572.6	8093.5	8636.1	8197.6	7620.8	7482.4	7959.7
45°	8253.6	8242.7	7896.0	7404.6	8093.5	9038.9	9758.8	9048.2	7930.2	7752.9	8532.0
47.5°	9026.4	8973.6	8328.3	7392.2	8581.7	10298.4	11208.0	10119.6	8146.3	7759.2	9455.6
50°	9782.1	9716.8	8844.5	7390.6	9085.5	11604.5	12918.4	11421.0	8367.1	7796.5	10394.8
52.5°	10545.6	10545.6	9691.9	7566.3	9614.2	13063.1	14894.8	13042.8	8743.4	8284.7	11550.1
55°	10999.6	11120.9	10645.1	7863.3	10233.1	14779.7	16849.3	14793.7	9325.0	9166.4	12616.8
57.5°	10422.8	10649.8	10581.4	7656.5	10598.5	16040.8	18506.9	16121.6	9612.6	9270.6	12456.6
60°	8493.1	8808.7	8965.8	6611.6	10237.7	16186.9	18853.7	16208.7	9018.7	7894.4	10670.0
62.5°	5646.0	5905.7	6145.1	4723.9	8863.2	14562.0	16675.2	14566.7	7532.1	5891.7	7392.2
65°	2769.3	2962.2	3220.3	2792.7	6924.1	12167.4	13000.9	11770.9	5448.5	3298.0	3770.7
67.5°	724.6	779.0	814.8	1083.8	4960.3	8741.9	8479.1	8609.7	3500.2	1077.6	985.8
70°	376.3	379.4	377.9	447.8	3352.5	5555.8	5843.5	5406.5	2442.8	450.9	388.7
72.5°	269.0	270.6	265.9	301.7	1618.7	3183.0	3298.0	3262.3	1279.7	267.4	265.9
75°	175.7	177.3	174.2	177.3	244.1	362.3	334.3	351.4	213.0	169.5	169.5
77.5°	104.2	105.7	104.2	107.3	104.2	104.2	96.4	96.4	91.7	91.7	93.3
80°	70.0	70.0	68.4	71.5	65.3	65.3	62.2	60.6	56.0	54.4	54.4
82.5°	42.0	43.5	42.0	42.0	38.9	38.9	35.8	34.2	29.5	29.5	28.0
85°	21.8	21.8	20.2	20.2	17.1	15.5	12.4	12.4	9.3	7.8	7.8
87.5°	3.1	3.1	1.6	1.6	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°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	3727.2	3696.1	3649.4	3604.4	3562.4	3518.8	3469.1	3417.8	3374.2	3329.1	3305.8
5°	3952.7	3888.9	3767.6	3660.3	3563.9	3484.6	3399.1	3326.0	3257.6	3201.6	3173.6
7.5°	4156.4	4056.8	3873.4	3703.9	3573.3	3464.4	3346.2	3237.4	3145.6	3077.2	3050.8
10°	4344.5	4226.3	3985.3	3770.7	3618.3	3497.1	3352.5	3204.7	3083.4	2993.3	2971.5
12.5°	4496.9	4361.6	4073.9	3825.2	3644.8	3514.2	3386.7	3259.2	3139.4	3022.8	3004.1
15°	4632.2	4472.0	4140.8	3859.4	3635.5	3469.1	3361.8	3346.2	3346.2	3214.1	3176.7
17.5°	4748.8	4573.1	4195.2	3874.9	3576.4	3335.3	3270.0	3405.3	3557.7	3462.9	3378.9
20°	4882.5	4669.5	4240.3	3874.9	3467.5	3165.9	3159.6	3389.8	3615.2	3616.8	3528.2
22.5°	5017.8	4781.4	4293.2	3860.9	3318.2	2969.9	3085.0	3327.6	3528.2	3613.7	3553.0
25°	5237.0	4936.9	4377.2	3850.0	3144.1	2836.2	3018.1	3245.2	3414.6	3504.8	3466.0
27.5°	5515.4	5142.2	4504.7	3867.1	2971.5	2756.9	2946.6	3137.9	3291.8	3371.1	3343.1
30°	5826.4	5378.5	4641.5	3896.7	2847.1	2716.5	2861.1	3015.0	3151.9	3231.2	3218.7
32.5°	6222.9	5635.1	4759.7	3856.3	2777.1	2696.3	2770.9	2881.3	3013.5	3063.2	3074.1
35°	6697.1	5918.1	4849.9	3697.6	2713.4	2674.5	2672.9	2741.4	2834.7	2914.0	2921.7
37.5°	7134.1	6249.3	4949.4	3425.5	2598.3	2620.1	2557.9	2598.3	2690.0	2769.3	2800.4
40°	7566.3	6585.2	5087.8	3078.8	2447.5	2498.8	2425.7	2453.7	2526.8	2631.0	2680.7
42.5°	7986.2	6888.4	5233.9	2724.3	2296.6	2329.3	2274.9	2302.9	2379.1	2509.7	2565.7
45°	8443.3	7298.9	5347.4	2389.9	2166.0	2152.0	2108.5	2148.9	2264.0	2407.0	2473.9
47.5°	9307.9	7945.7	5422.1	2167.6	2096.1	1995.0	1945.2	2032.3	2162.9	2307.5	2388.4
50°	10363.7	8881.8	5400.3	2026.1	2035.4	1833.3	1816.2	1931.2	2071.2	2222.0	2310.6
52.5°	11200.2	9800.8	5153.1	1890.8	1917.2	1730.6	1680.9	1848.8	1982.5	2136.5	2228.2
55°	11839.3	10110.2	4394.3	1730.6	1724.4	1656.0	1551.8	1763.3	1893.9	2037.0	2136.5
57.5°	11318.4	9421.4	3257.6	1509.8	1472.5	1508.3	1407.2	1618.7	1785.1	1926.6	2015.2
60°	9393.4	7511.9	1814.6	1337.2	1231.5	1318.6	1303.0	1466.3	1666.9	1816.2	1892.4
62.5°	6376.8	5002.2	1076.0	1057.4	998.3	1122.7	1205.1	1312.4	1509.8	1631.1	1702.7
65°	3178.3	2430.4	715.3	791.5	799.2	923.6	1079.1	1197.3	1362.1	1486.5	1558.1
67.5°	922.1	755.7	544.2	604.9	688.8	788.4	912.8	1052.7	1212.9	1360.6	1444.5
70°	398.1	402.7	432.3	503.8	586.2	688.8	813.2	950.1	1085.3	1198.9	1262.6
72.5°	281.4	292.3	325.0	398.1	475.8	573.8	698.2	830.3	928.3	1043.4	1110.2
75°	180.4	188.1	214.6	270.6	328.1	422.9	541.1	662.4	763.5	845.9	909.6
77.5°	99.5	101.1	122.8	155.5	194.4	255.0	342.1	436.9	511.6	558.2	615.8
80°	57.5	57.5	68.4	88.6	112.0	149.3	197.5	244.1	289.2	318.8	346.8
82.5°	31.1	31.1	35.8	48.2	60.6	82.4	110.4	133.7	161.7	177.3	195.9
85°	9.3	9.3	12.4	17.1	21.8	31.1	43.5	56.0	68.4	79.3	90.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	3301.1	3279.4	3266.9	3251.4	3256.0	3242.1	3234.3	3238.9	3211.0	3238.9	3266.9
5°	3162.7	3131.7	3106.8	3086.6	3077.2	3058.6	3047.7	3047.7	3030.6	3058.6	3092.8
7.5°	3041.5	3016.6	3004.1	2991.7	2977.7	2960.6	2941.9	2935.7	2924.8	2954.4	2983.9
10°	2960.6	2963.7	2971.5	2988.6	2985.5	2974.6	2946.6	2931.1	2931.1	2965.3	3010.4
12.5°	2997.9	3030.6	3049.2	3080.3	3086.6	3077.2	3049.2	3036.8	3067.9	3119.2	3193.8
15°	3142.5	3164.3	3179.9	3204.7	3203.2	3195.4	3173.6	3183.0	3285.6	3385.1	3452.0
17.5°	3299.6	3274.7	3271.6	3287.1	3291.8	3282.5	3270.0	3312.0	3481.5	3574.8	3609.0
20°	3413.1	3327.6	3308.9	3315.1	3327.6	3322.9	3322.9	3391.3	3567.0	3610.6	3567.0
22.5°	3447.3	3326.0	3298.0	3299.6	3316.7	3318.2	3326.0	3397.5	3500.2	3501.7	3434.9
25°	3392.9	3276.3	3256.0	3259.2	3279.4	3277.8	3280.9	3321.4	3366.4	3347.8	3298.0
27.5°	3290.3	3189.2	3183.0	3200.1	3226.5	3212.5	3203.2	3214.1	3235.8	3212.5	3169.0
30°	3173.6	3088.1	3091.2	3123.9	3151.9	3128.5	3105.2	3111.4	3113.0	3088.1	3038.4
32.5°	3050.8	2987.0	2997.9	3032.1	3064.8	3039.9	3015.0	3011.9	2982.4	2952.8	2904.6
35°	2928.0	2903.1	2917.1	2945.1	2973.0	2952.8	2937.3	2928.0	2864.2	2820.7	2780.2
37.5°	2816.0	2834.7	2859.5	2876.6	2886.0	2884.4	2875.1	2853.3	2769.3	2718.0	2665.2
40°	2716.5	2774.0	2800.4	2808.2	2822.2	2819.1	2817.6	2786.5	2676.1	2621.6	2561.0
42.5°	2626.3	2707.2	2752.2	2760.0	2767.8	2769.3	2764.7	2719.6	2593.6	2529.9	2472.4
45°	2539.2	2645.0	2702.5	2694.7	2705.6	2705.6	2710.3	2651.2	2512.8	2447.5	2386.8
47.5°	2463.0	2587.4	2640.3	2631.0	2637.2	2641.8	2646.5	2578.1	2424.2	2362.0	2299.8
50°	2393.1	2525.2	2570.3	2573.4	2573.4	2584.3	2582.8	2515.9	2349.5	2282.7	2220.5
52.5°	2318.4	2461.5	2509.7	2529.9	2536.1	2540.8	2519.0	2441.3	2273.3	2192.5	2134.9
55°	2231.3	2396.2	2439.7	2466.1	2478.6	2475.5	2445.9	2366.6	2195.6	2114.7	2049.4
57.5°	2099.2	2256.2	2318.4	2330.9	2351.1	2338.6	2304.4	2237.6	2071.2	1990.3	1923.5
60°	1954.6	2068.1	2117.8	2128.7	2113.2	2117.8	2113.2	2049.4	1904.8	1841.0	1772.6
62.5°	1764.9	1865.9	1918.8	1932.8	1906.4	1923.5	1917.2	1837.9	1693.3	1626.5	1565.8
65°	1621.8	1732.2	1794.4	1802.2	1794.4	1802.2	1780.4	1684.0	1547.2	1478.7	1416.6
67.5°	1509.8	1623.4	1688.7	1710.4	1702.7	1701.1	1666.9	1554.9	1413.4	1338.8	1259.5
70°	1317.0	1416.6	1500.5	1553.4	1553.4	1523.8	1458.5	1354.4	1240.8	1177.1	1114.9
72.5°	1166.2	1292.2	1374.6	1429.0	1439.9	1422.8	1331.0	1220.6	1090.0	1026.3	961.0
75°	961.0	1083.8	1172.4	1244.0	1257.9	1239.3	1133.6	1024.7	903.4	841.2	775.9
77.5°	642.2	715.3	786.8	852.1	838.1	850.6	779.0	696.6	622.0	575.3	545.8
80°	362.3	410.5	432.3	468.0	468.0	468.0	421.4	382.5	340.5	314.1	284.6
82.5°	205.3	236.4	245.7	275.2	283.0	284.6	253.5	228.6	202.1	188.1	167.9
85°	94.9	112.0	113.5	130.6	136.8	149.3	135.3	118.2	102.6	96.4	84.0
87.5°	3.1	9.3	12.4	23.3	31.1	35.8	38.9	38.9	32.7	29.5	24.9
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: P635734

CATALOG NUMBER: GWS-SA3E-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	3301.1	3338.5	3382.0	3413.1	3469.1	3515.7	3563.9	3616.8	3655.7	3646.3
5°	3134.8	3197.0	3276.3	3349.3	3453.5	3559.3	3675.9	3795.6	3865.6	3862.5
7.5°	3041.5	3130.1	3226.5	3324.5	3447.3	3599.7	3778.5	3965.1	4059.9	4064.6
10°	3091.2	3186.1	3251.4	3333.8	3462.9	3654.1	3868.7	4092.6	4201.4	4223.2
12.5°	3248.3	3240.5	3235.8	3294.9	3450.4	3693.0	3955.8	4223.2	4346.1	4372.5
15°	3397.5	3237.4	3141.0	3181.4	3394.4	3717.9	4041.3	4366.3	4504.7	4532.7
17.5°	3425.5	3183.0	3004.1	3032.1	3305.8	3725.6	4123.7	4506.2	4655.5	4681.9
20°	3347.8	3113.0	2904.6	2865.8	3193.8	3705.4	4175.0	4622.8	4786.1	4814.1
22.5°	3249.8	3050.8	2830.0	2728.9	3057.0	3685.2	4232.5	4745.7	4933.8	4958.7
25°	3147.2	2971.5	2760.0	2606.1	2901.5	3672.8	4329.0	4907.4	5134.4	5164.0
27.5°	3038.4	2875.1	2699.4	2547.0	2758.5	3688.3	4465.8	5168.6	5426.7	5468.7
30°	2921.7	2778.7	2660.5	2526.8	2660.5	3702.3	4616.6	5436.1	5739.3	5798.4
32.5°	2800.4	2690.0	2620.1	2536.1	2599.9	3669.7	4748.8	5736.2	6112.5	6163.8
35°	2679.2	2599.9	2568.8	2553.2	2519.0	3549.9	4856.1	6039.4	6538.5	6583.6
37.5°	2565.7	2506.6	2497.2	2514.3	2394.6	3354.0	4980.5	6425.0	6956.8	7025.2
40°	2459.9	2405.5	2403.9	2400.8	2257.8	3086.6	5148.4	6816.9	7368.9	7400.0
42.5°	2362.0	2293.5	2306.0	2268.7	2145.8	2797.3	5307.0	7151.2	7752.9	7774.7
45°	2274.9	2184.7	2198.7	2152.0	2092.9	2494.1	5447.0	7546.1	8239.6	8253.6
47.5°	2190.9	2094.5	2055.6	2052.5	2083.6	2214.2	5583.8	8306.5	9001.6	9026.4
50°	2113.2	2009.0	1898.6	1967.0	2026.1	2004.3	5754.8	9121.3	9788.4	9782.1
52.5°	2038.5	1901.7	1744.6	1876.8	1876.8	1848.8	5706.6	9615.8	10438.3	10545.6
55°	1953.0	1729.1	1584.5	1726.0	1657.6	1708.9	4853.0	9777.5	10847.3	10999.6
57.5°	1783.5	1516.1	1390.1	1466.3	1363.7	1584.5	3486.2	8975.1	10152.2	10422.8
60°	1620.2	1359.0	1276.6	1262.6	1128.9	1292.2	2259.3	7026.8	8356.2	8493.1
62.5°	1429.0	1223.7	1153.8	1046.5	908.1	940.7	1368.3	4624.4	5614.9	5646.0
65°	1284.4	1108.7	974.9	847.4	743.3	682.6	808.6	2229.8	2806.7	2769.3
67.5°	1102.5	950.1	822.6	730.8	645.3	569.1	538.0	662.4	749.5	724.6
70°	981.2	835.0	712.2	625.1	545.8	469.6	415.2	390.3	382.5	376.3
72.5°	845.9	718.4	590.9	506.9	432.3	362.3	312.5	283.0	275.2	269.0
75°	674.8	555.1	438.5	359.2	293.9	244.1	211.5	186.6	181.9	175.7
77.5°	446.3	356.1	261.2	213.0	174.2	147.7	126.0	110.4	107.3	104.2
80°	245.7	205.3	160.2	129.1	104.2	90.2	82.4	73.1	71.5	70.0
82.5°	146.2	122.8	91.7	73.1	60.6	54.4	49.8	45.1	43.5	42.0
85°	73.1	57.5	40.4	34.2	31.1	28.0	28.0	23.3	21.8	21.8
87.5°	18.7	15.5	9.3	7.8	7.8	7.8	6.2	4.7	4.7	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)