

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: P640679

Luminaire Tested: GWS-SA5E-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-735-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

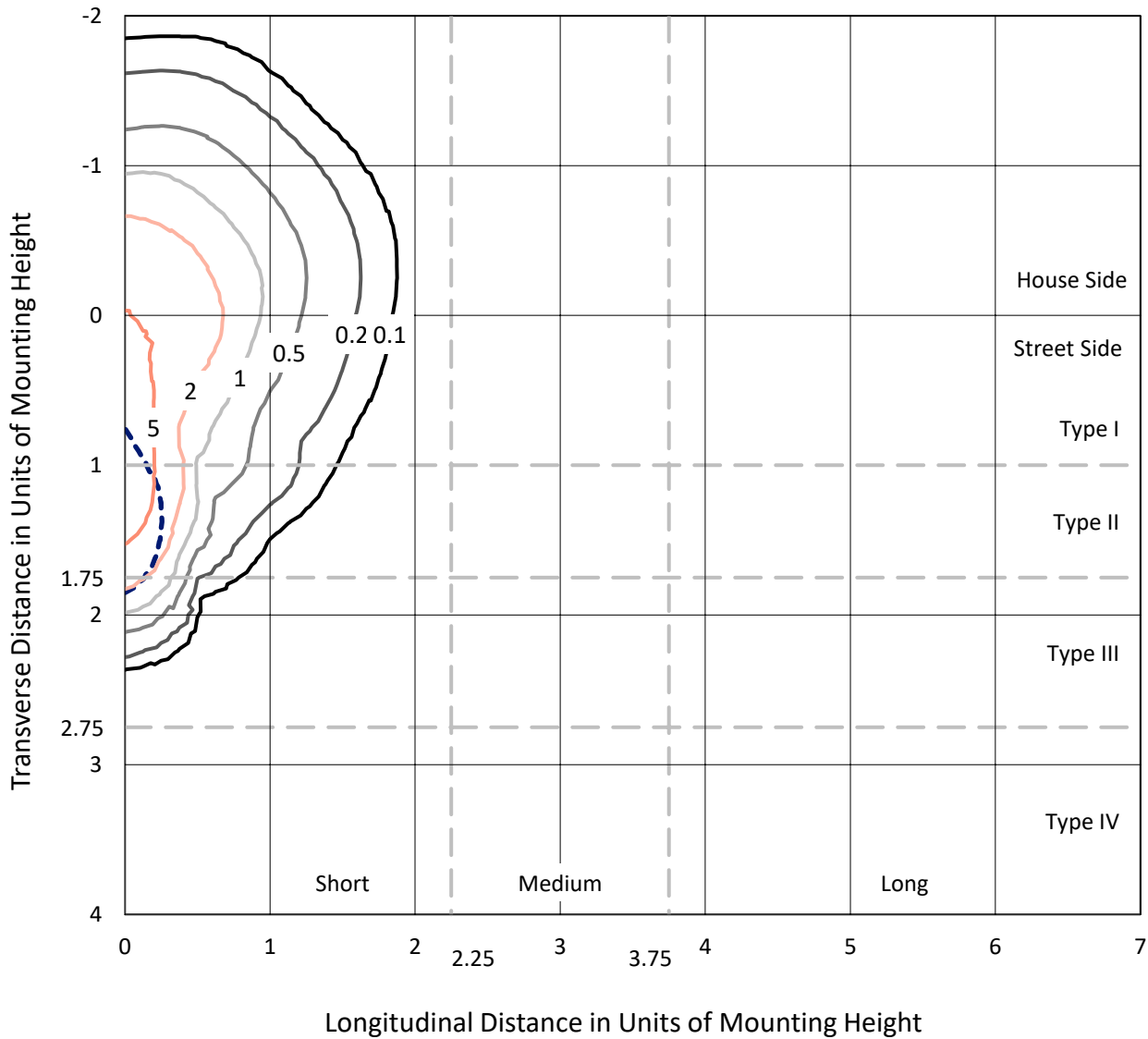
Lumens per Lamp: N/A  
Luminaire Lumens: 19854.1 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

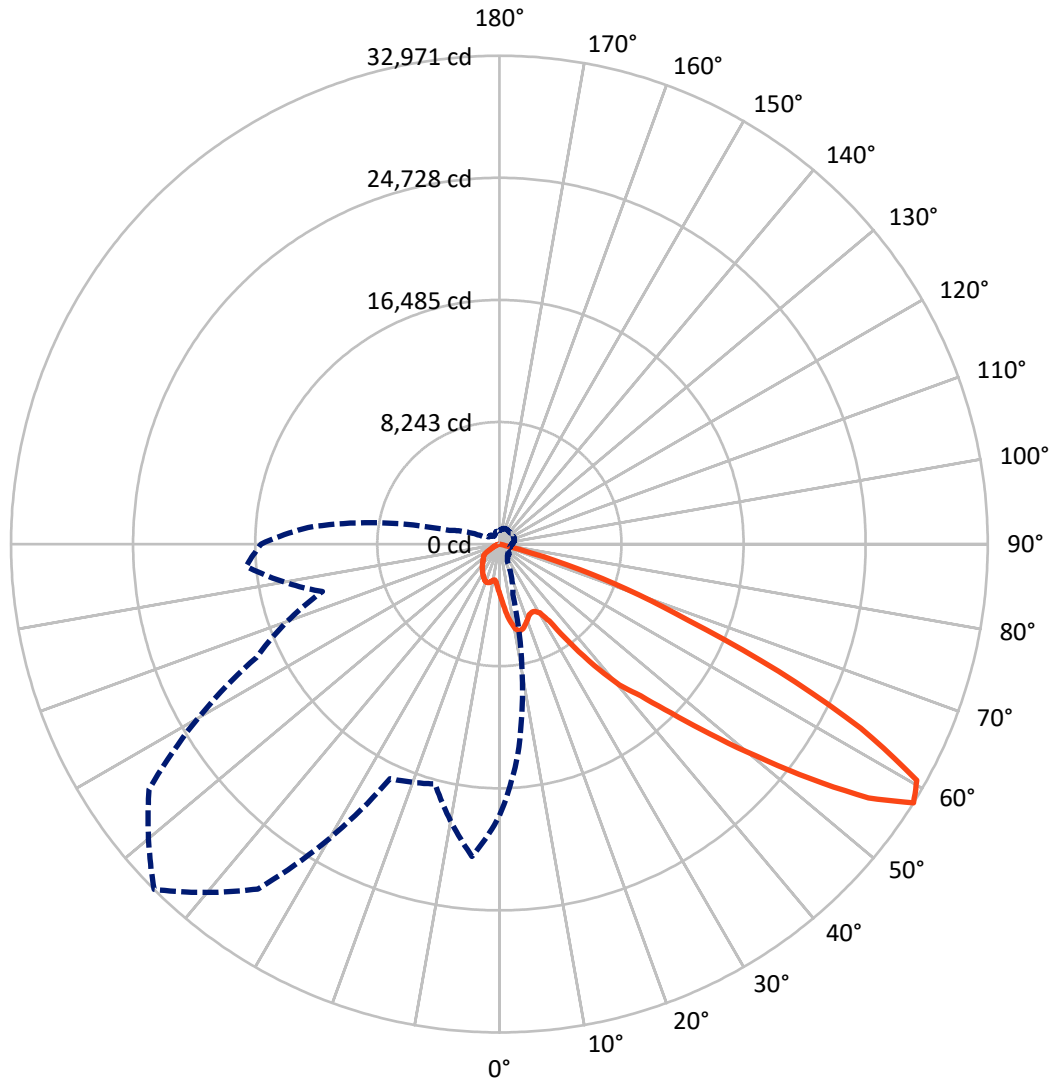
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4277.2	0.0	4277.2
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	15576.9	0.0	15576.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	19854.1	0.0	19854.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.4	1.7
10°-20°	1097.1	5.5
20°-30°	1780.6	9.0
30°-40°	2732.7	13.8
40°-50°	4364.4	22.0
50°-60°	6110.9	30.8
60°-70°	3133.2	15.8
70°-80°	301.7	1.5
80°-90°	0.0	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°	19854.1	100.0
0°-180°	19854.1	100.0

**Coefficient of Utilization**



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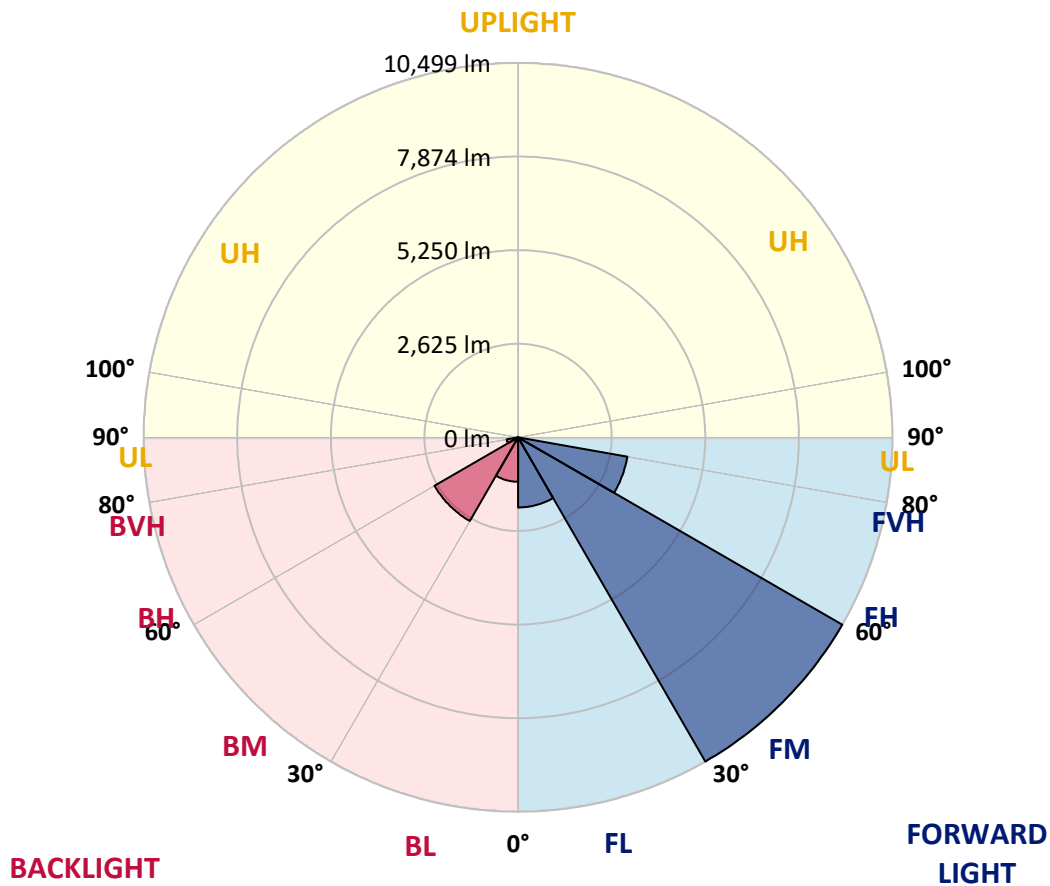
CATALOG NUMBER: GWS-SA5E-735-U-SLL-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.7	9.9			
FM (30°-60°)	10499.3	52.9			
FH (60°-80°)	3111.9	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1245.5	6.3	B3/2500		
BM (30°-60°)	2708.7	13.6	B3/5000		
BH (60°-80°)	323.0	1.6	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°	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5
2.5°	3747.7	3739.8	3713.2	3623.0	3567.3	3479.7	3416.0	3333.7	3243.4	3187.7	3132.0
5°	4145.9	4124.6	4053.0	3846.0	3686.7	3514.2	3376.2	3224.9	3063.0	2956.8	2858.6
7.5°	4528.1	4496.2	4400.7	4050.3	3808.8	3562.0	3365.5	3145.2	2917.0	2757.7	2635.6
10°	4902.3	4830.7	4679.4	4249.4	3922.9	3625.7	3394.7	3142.6	2874.5	2672.8	2537.4
12.5°	5210.2	5157.1	4950.1	4437.8	4018.5	3638.9	3354.9	3121.4	2940.9	2805.5	2680.8
15°	5475.6	5417.3	5220.8	4607.7	4100.8	3585.8	3187.7	2983.3	3012.5	3065.6	2959.4
17.5°	5719.8	5658.8	5446.4	4748.4	4132.6	3455.8	2954.1	2855.9	3017.8	3216.9	3177.1
20°	5972.0	5903.0	5642.9	4862.5	4122.0	3251.4	2717.9	2747.1	2975.4	3203.6	3224.9
22.5°	6266.6	6194.9	5892.4	5008.5	4114.0	3007.2	2513.5	2651.6	2895.7	3089.5	3126.7
25°	6656.8	6571.8	6240.1	5223.5	4135.3	2784.3	2367.6	2558.7	2760.4	2935.6	2956.8
27.5°	7171.7	7062.9	6640.8	5488.9	4180.4	2609.1	2303.9	2431.3	2587.9	2744.5	2763.0
30°	7843.2	7705.2	7100.0	5719.8	4159.2	2487.0	2261.4	2303.9	2396.8	2524.2	2526.8
32.5°	8628.8	8440.4	7614.9	5918.9	3976.0	2396.8	2203.0	2173.8	2195.0	2293.2	2311.8
35°	9552.5	9308.3	8182.9	6107.3	3641.6	2221.6	2096.8	1998.6	1990.7	2038.4	2083.6
37.5°	10611.5	10319.6	8899.6	6348.9	3246.1	2038.4	1940.2	1842.0	1799.6	1823.4	1892.5
40°	11588.3	11264.5	9648.1	6640.8	2842.7	1873.9	1757.1	1656.2	1605.8	1613.8	1698.7
42.5°	12734.9	12400.5	10563.8	7023.0	2508.2	1762.4	1566.0	1462.5	1396.1	1433.3	1531.5
45°	14476.1	14096.5	11898.8	7354.8	2242.8	1735.9	1398.8	1252.8	1220.9	1284.6	1401.4
47.5°	16854.3	16389.8	13732.9	7556.5	2017.2	1759.7	1282.0	1082.9	1090.9	1162.5	1279.3
50°	19213.9	18712.2	15853.6	7291.1	1831.4	1712.0	1223.6	950.2	1000.6	1064.3	1170.5
52.5°	20835.6	20182.6	16886.1	6524.1	1661.5	1531.5	1218.3	825.5	921.0	942.2	1032.5
55°	20899.3	20095.1	16357.9	5143.9	1430.6	1292.6	1162.5	721.9	833.4	841.4	918.4
57.5°	18319.4	17592.1	14295.6	3532.8	1271.4	947.6	926.3	631.7	684.8	751.1	798.9
60°	13937.3	13318.8	10691.2	1619.1	966.1	602.5	634.4	544.1	512.3	610.5	658.2
62.5°	8536.0	8140.5	6412.6	716.6	615.8	321.2	384.9	432.6	384.9	422.0	461.8
65°	3389.4	3214.3	2433.9	305.2	252.2	161.9	175.2	252.2	270.7	297.3	334.4
67.5°	589.2	557.4	408.7	135.4	103.5	98.2	84.9	116.8	164.6	183.1	212.3
70°	77.0	74.3	66.4	55.7	53.1	47.8	37.2	74.3	111.5	116.8	135.4
72.5°	18.6	15.9	15.9	13.3	15.9	5.3	5.3	39.8	79.6	82.3	95.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	50.4	55.7	66.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5
2.5°	3086.9	3033.8	3015.2	2988.6	2954.1	2964.8	2917.0	2901.1	2924.9	2956.8	2948.8
5°	2805.5	2747.1	2707.3	2646.3	2635.6	2611.7	2595.8	2574.6	2601.1	2638.3	2646.3
7.5°	2582.6	2532.1	2492.3	2473.7	2460.5	2449.8	2418.0	2402.1	2402.1	2418.0	2431.3
10°	2487.0	2449.8	2441.9	2447.2	2468.4	2465.8	2436.6	2415.3	2388.8	2375.5	2391.4
12.5°	2619.7	2558.7	2548.0	2550.7	2577.2	2574.6	2542.7	2516.2	2510.9	2516.2	2566.6
15°	2845.3	2752.4	2683.4	2670.1	2683.4	2678.1	2654.2	2638.3	2646.3	2723.2	2808.2
17.5°	3047.0	2903.7	2779.0	2731.2	2728.5	2720.6	2696.7	2691.4	2731.2	2874.5	2999.3
20°	3105.4	2964.8	2786.9	2725.9	2712.6	2704.6	2678.1	2686.1	2736.5	2909.0	3015.2
22.5°	3028.5	2893.1	2707.3	2646.3	2635.6	2633.0	2606.4	2617.1	2659.5	2810.8	2898.4
25°	2882.5	2768.3	2574.6	2521.5	2521.5	2516.2	2492.3	2497.6	2524.2	2656.9	2741.8
27.5°	2704.6	2595.8	2433.9	2380.8	2388.8	2396.8	2367.6	2359.6	2380.8	2505.6	2556.0
30°	2500.3	2423.3	2295.9	2248.1	2245.5	2277.3	2237.5	2226.9	2256.1	2354.3	2364.9
32.5°	2301.2	2264.0	2173.8	2136.6	2139.3	2144.6	2123.4	2123.4	2149.9	2203.0	2200.3
35°	2107.4	2083.6	2067.6	2041.1	2038.4	2027.8	2027.8	2033.1	2062.3	2080.9	2046.4
37.5°	1921.7	1945.5	1964.1	1937.6	1916.3	1916.3	1916.3	1940.2	1966.8	1958.8	1900.4
40°	1757.1	1807.5	1865.9	1836.7	1786.3	1783.6	1794.2	1834.1	1873.9	1826.1	1773.0
42.5°	1616.4	1680.1	1762.4	1746.5	1690.7	1682.8	1690.7	1741.2	1773.0	1712.0	1653.6
45°	1478.4	1558.0	1656.2	1656.2	1595.2	1587.2	1589.9	1656.2	1674.8	1603.1	1528.8
47.5°	1361.6	1449.2	1552.7	1552.7	1502.3	1486.4	1499.6	1568.6	1581.9	1481.1	1412.0
50°	1250.1	1345.7	1459.8	1451.9	1417.4	1404.1	1428.0	1502.3	1486.4	1374.9	1303.2
52.5°	1109.5	1210.3	1366.9	1374.9	1356.3	1359.0	1388.2	1435.9	1390.8	1255.4	1194.4
55°	982.1	1085.6	1242.2	1284.6	1284.6	1282.0	1295.3	1332.4	1295.3	1133.3	1059.0
57.5°	844.0	931.6	1061.7	1072.3	1080.3	1051.1	1069.6	1120.1	1101.5	963.5	921.0
60°	692.7	767.1	841.4	849.3	814.8	753.8	788.3	846.7	860.0	756.5	708.7
62.5°	491.0	562.7	650.3	650.3	615.8	554.7	599.9	650.3	631.7	525.5	496.3
65°	366.3	432.6	499.0	528.2	499.0	456.5	491.0	528.2	499.0	411.4	368.9
67.5°	236.2	281.3	321.2	345.0	350.4	345.0	361.0	350.4	315.9	257.5	233.6
70°	143.3	167.2	188.4	209.7	225.6	233.6	241.5	217.6	183.1	151.3	143.3
72.5°	103.5	124.7	143.3	159.3	177.8	183.1	183.1	167.2	135.4	106.2	98.2
75°	71.7	90.2	106.2	116.8	132.7	138.0	138.0	124.7	100.9	77.0	69.0
77.5°	2.7	18.6	18.6	15.9	21.2	26.5	26.5	31.9	29.2	21.2	18.6
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°	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5
2.5°	2964.8	3060.3	3086.9	3185.1	3272.6	3360.2	3466.4	3530.1	3625.7	3692.0	3729.2
5°	2672.8	2752.4	2848.0	2994.0	3145.2	3312.5	3514.2	3689.4	3909.7	4071.6	4124.6
7.5°	2460.5	2564.0	2675.4	2858.6	3065.6	3288.6	3572.6	3859.2	4196.3	4416.6	4557.3
10°	2420.6	2526.8	2675.4	2855.9	3073.6	3328.4	3676.1	4047.7	4469.7	4737.8	4897.0
12.5°	2611.7	2725.9	2789.6	2871.9	3036.4	3320.4	3766.3	4238.8	4735.1	5027.1	5197.0
15°	2893.1	2994.0	2890.4	2786.9	2893.1	3235.5	3816.8	4398.0	4968.7	5305.8	5481.0
17.5°	3086.9	3094.8	2869.2	2648.9	2678.1	3081.5	3835.3	4557.3	5218.2	5571.2	5754.3
20°	3068.3	3004.6	2776.3	2532.1	2441.9	2882.5	3814.1	4698.0	5470.3	5839.3	6019.8
22.5°	2924.9	2850.6	2656.9	2418.0	2242.8	2646.3	3776.9	4825.4	5701.3	6120.6	6290.5
25°	2752.4	2672.8	2513.5	2303.9	2115.4	2418.0	3747.7	5000.5	5993.2	6486.9	6619.6
27.5°	2550.7	2481.7	2346.3	2195.0	2062.3	2245.5	3739.8	5231.5	6346.2	6932.8	7025.7
30°	2354.3	2290.6	2184.4	2096.8	2041.1	2144.6	3713.2	5478.3	6768.2	7445.1	7545.9
32.5°	2165.8	2102.1	2035.8	2022.5	2025.2	2107.4	3623.0	5722.5	7269.9	8188.2	8262.6
35°	2003.9	1929.6	1903.1	1934.9	1993.3	2043.7	3368.2	5924.2	7808.7	8997.8	9058.8
37.5°	1850.0	1775.7	1773.0	1850.0	1913.7	1945.5	3068.3	6123.3	8536.0	9820.6	9897.6
40°	1709.3	1635.0	1661.5	1754.4	1804.9	1820.8	2704.6	6425.9	9305.7	10688.5	10646.1
42.5°	1589.9	1512.9	1528.8	1648.3	1693.4	1735.9	2370.2	6678.0	10046.2	11511.3	11498.1
45°	1473.1	1414.7	1404.1	1534.1	1573.9	1743.8	2126.0	6871.8	10999.1	12559.7	12581.0
47.5°	1359.0	1313.8	1316.5	1372.2	1470.4	1783.6	1919.0	6999.2	12381.9	14221.3	13852.3
50°	1255.4	1220.9	1250.1	1186.4	1404.1	1733.2	1741.2	6972.6	13926.7	15813.8	15073.3
52.5°	1141.3	1133.3	1146.6	992.7	1297.9	1528.8	1573.9	6619.6	14651.3	16902.0	16480.0
55°	1024.5	1021.9	915.7	793.6	1085.6	1220.9	1348.3	5523.4	14627.4	17480.7	17992.9
57.5°	886.5	865.3	695.4	647.6	844.0	849.3	1228.9	3617.7	12963.2	16095.2	17156.8
60°	671.5	655.6	509.6	525.5	589.2	544.1	979.4	1802.2	9687.9	12538.5	13735.6
62.5°	464.5	443.3	379.6	406.1	379.6	310.5	599.9	891.8	5868.5	7917.5	9003.1
65°	339.7	315.9	260.1	223.0	177.8	177.8	228.3	342.4	2272.0	3365.5	4058.3
67.5°	209.7	199.1	153.9	111.5	108.8	116.8	119.4	169.9	366.3	583.9	714.0
70°	135.4	124.7	103.5	71.7	66.4	69.0	71.7	79.6	92.9	100.9	122.1
72.5°	92.9	87.6	74.3	39.8	31.9	34.5	37.2	37.2	45.1	42.5	50.4
75°	66.4	61.0	53.1	18.6	10.6	13.3	15.9	13.3	15.9	10.6	13.3
77.5°	18.6	18.6	13.3	2.7	0.0	2.7	5.3	5.3	2.7	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	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: P640679

CATALOG NUMBER: GWS-SA5E-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5	3373.5
2.5°	3824.7	3885.8	3909.7	3875.2	3904.3	3856.6	3838.0	3766.3	3761.0	3747.7
5°	4339.6	4477.7	4559.9	4610.4	4552.0	4488.3	4392.7	4228.2	4177.7	4145.9
7.5°	4846.6	5061.6	5202.3	5268.6	5252.7	5122.6	4950.1	4674.1	4575.9	4528.1
10°	5287.2	5550.0	5719.8	5802.1	5767.6	5653.5	5406.6	5061.6	4931.5	4902.3
12.5°	5595.1	5836.6	5953.4	6025.1	6027.7	5982.6	5749.0	5401.3	5247.4	5210.2
15°	5788.8	5892.4	5895.0	5937.5	6011.8	6112.7	6003.8	5695.9	5531.4	5475.6
17.5°	5910.9	5796.8	5680.0	5690.6	5812.7	6080.8	6192.3	5956.1	5780.9	5719.8
20°	5998.5	5637.6	5419.9	5422.6	5547.3	5953.4	6322.3	6208.2	6027.7	5972.0
22.5°	6054.3	5496.9	5186.3	5178.4	5311.1	5802.1	6441.8	6508.1	6330.3	6266.6
25°	6168.4	5430.5	5045.7	5090.8	5207.6	5754.3	6603.7	6906.3	6741.7	6656.8
27.5°	6372.8	5496.9	5032.4	5135.9	5268.6	5895.0	6885.0	7437.1	7267.2	7171.7
30°	6725.8	5746.4	5236.8	5380.1	5539.3	6263.9	7357.5	8177.6	7933.4	7843.2
32.5°	7293.8	6263.9	5868.5	6176.4	6330.3	6869.1	8066.2	9008.4	8809.3	8628.8
35°	8076.8	7445.1	7399.9	8116.6	8079.4	8015.7	8936.7	10027.6	9727.7	9552.5
37.5°	9154.4	9345.5	9679.9	10391.2	10367.4	9881.6	10080.7	10991.1	10837.2	10611.5
40°	10500.1	10906.2	11474.2	12493.4	12174.9	11564.4	11484.8	11978.5	11853.7	11588.3
42.5°	11293.7	11994.4	13077.3	13993.0	13738.2	12671.2	12581.0	13297.6	13024.2	12734.9
45°	11662.6	12880.9	15004.3	16243.8	15471.4	13406.4	13371.9	15017.5	14863.6	14476.1
47.5°	11832.5	13775.4	17260.4	19136.9	17693.0	14051.4	13926.7	17512.5	17310.8	16854.3
50°	12020.9	15009.6	19978.3	22489.2	20376.4	14781.3	14871.6	19837.6	19752.7	19213.9
52.5°	12435.0	16315.5	23325.2	26321.8	23630.5	15925.3	16493.3	22030.0	21456.7	20835.6
55°	13056.1	17738.1	26807.6	30236.8	26950.9	17462.1	18247.7	23195.2	21586.7	20899.3
57.5°	12368.6	18093.8	28869.9	32970.6	28424.0	17467.4	16764.0	21175.3	18985.6	18319.4
60°	9815.3	16833.0	28076.3	32378.8	27168.5	15511.2	12835.8	16533.1	14383.2	13937.3
62.5°	6635.5	14117.8	24716.0	27383.5	23253.6	12201.4	8342.2	10752.2	8904.9	8536.0
65°	3636.3	10531.9	19970.3	20716.1	18199.9	8522.7	4291.9	4666.1	3554.0	3389.4
67.5°	1003.3	7330.9	14693.7	13743.5	12769.4	5550.0	1109.5	833.4	594.5	589.2
70°	252.2	4849.2	8804.0	9074.8	7829.9	3554.0	212.3	100.9	79.6	77.0
72.5°	106.2	2086.2	4177.7	4801.5	4007.9	1645.6	77.0	29.2	23.9	18.6
75°	13.3	167.2	355.7	538.8	368.9	177.8	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)