

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: P640683

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640683
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-SA5E-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT 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: 19753.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

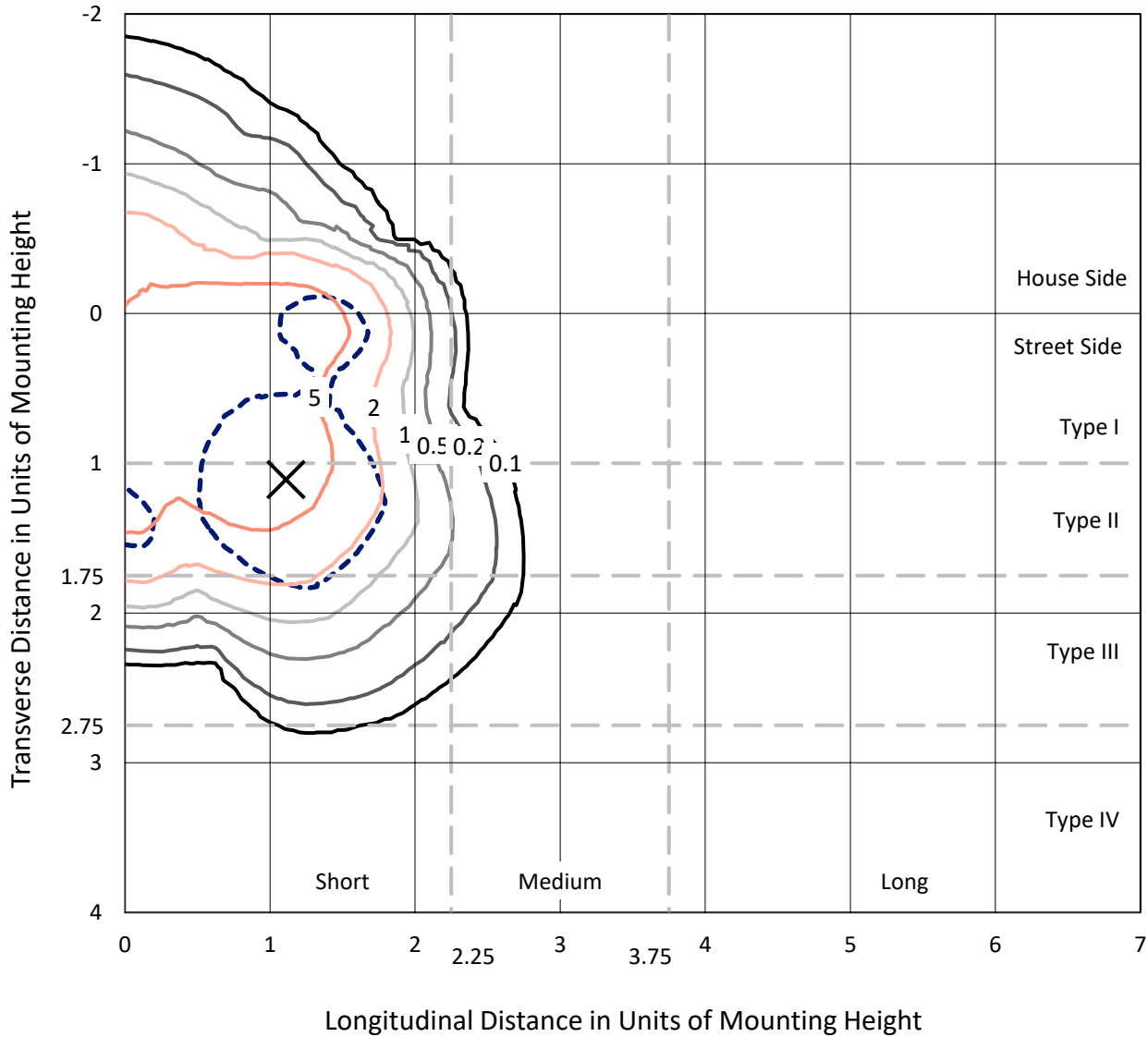
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

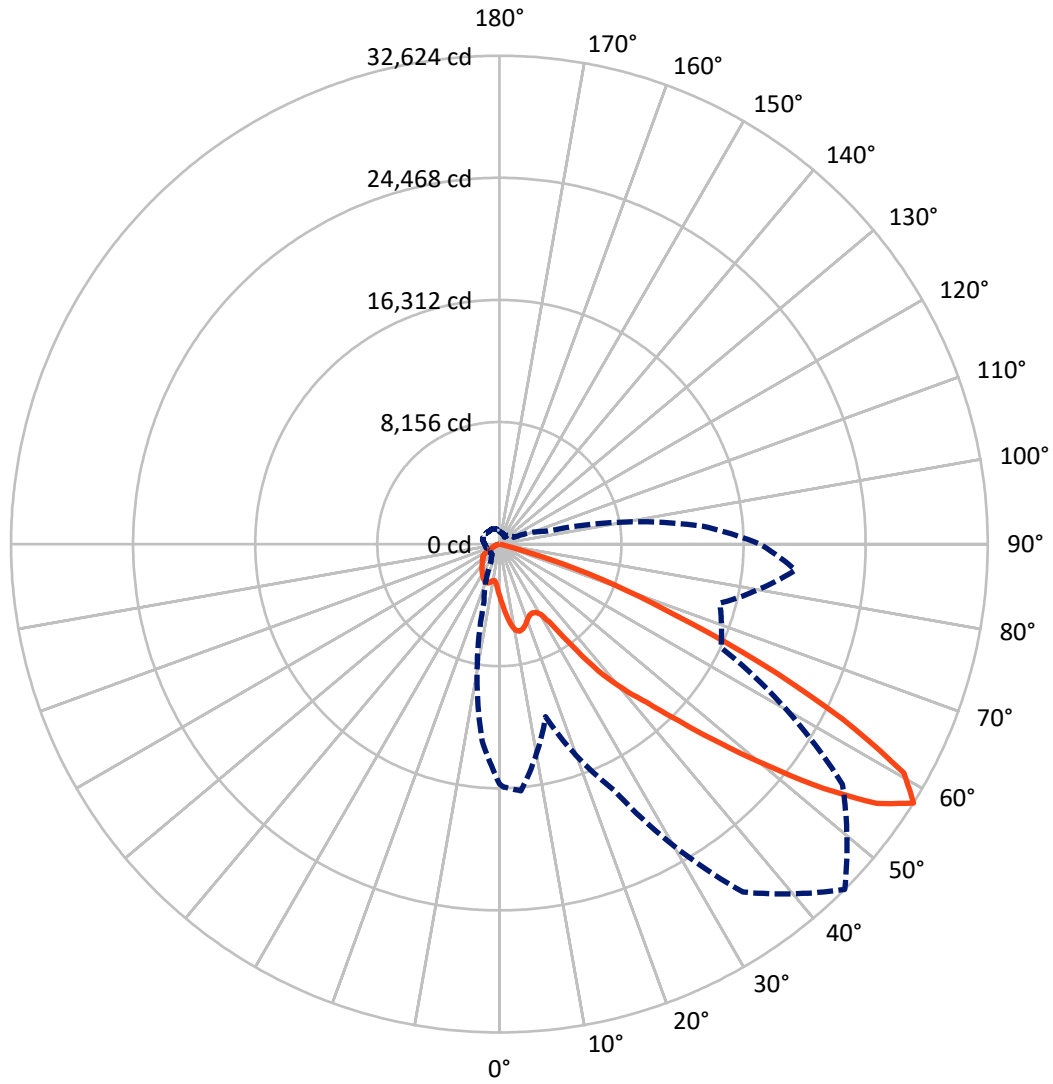
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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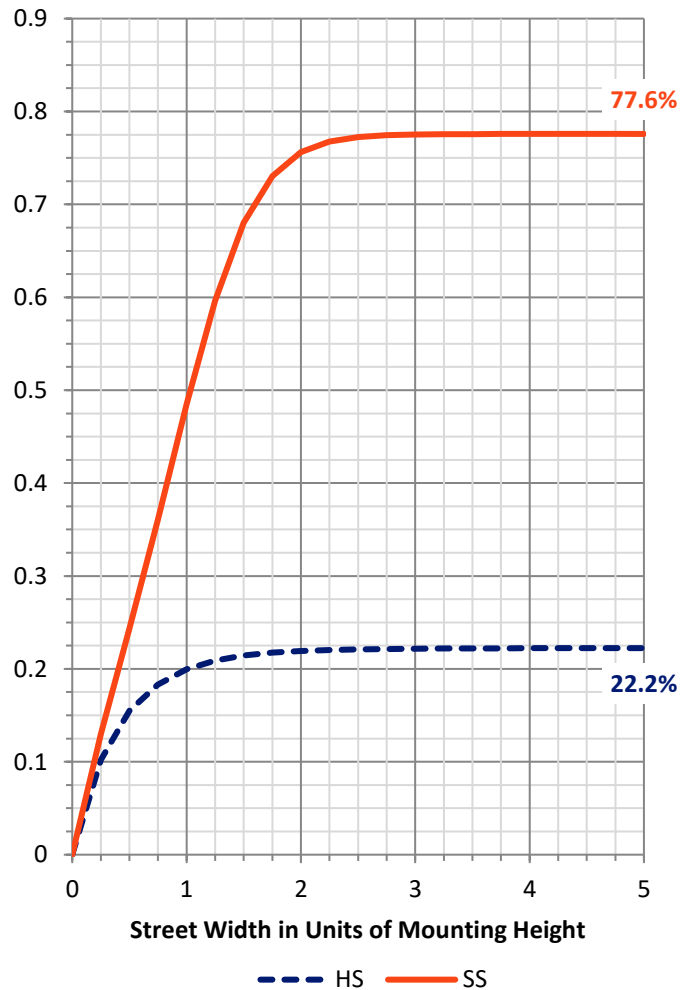
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4423.3	0.0	4423.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15330.0	0.0	15330.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	19753.3	0.0	19753.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	1.7
10°-20°	1104.9	5.6
20°-30°	1794.8	9.1
30°-40°	2773.3	14.0
40°-50°	4447.0	22.5
50°-60°	6077.8	30.8
60°-70°	2943.6	14.9
70°-80°	269.5	1.4
80°-90°	0.8	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°	19753.3	100.0
0°-180°	19753.3	100.0

Coefficient of Utilization



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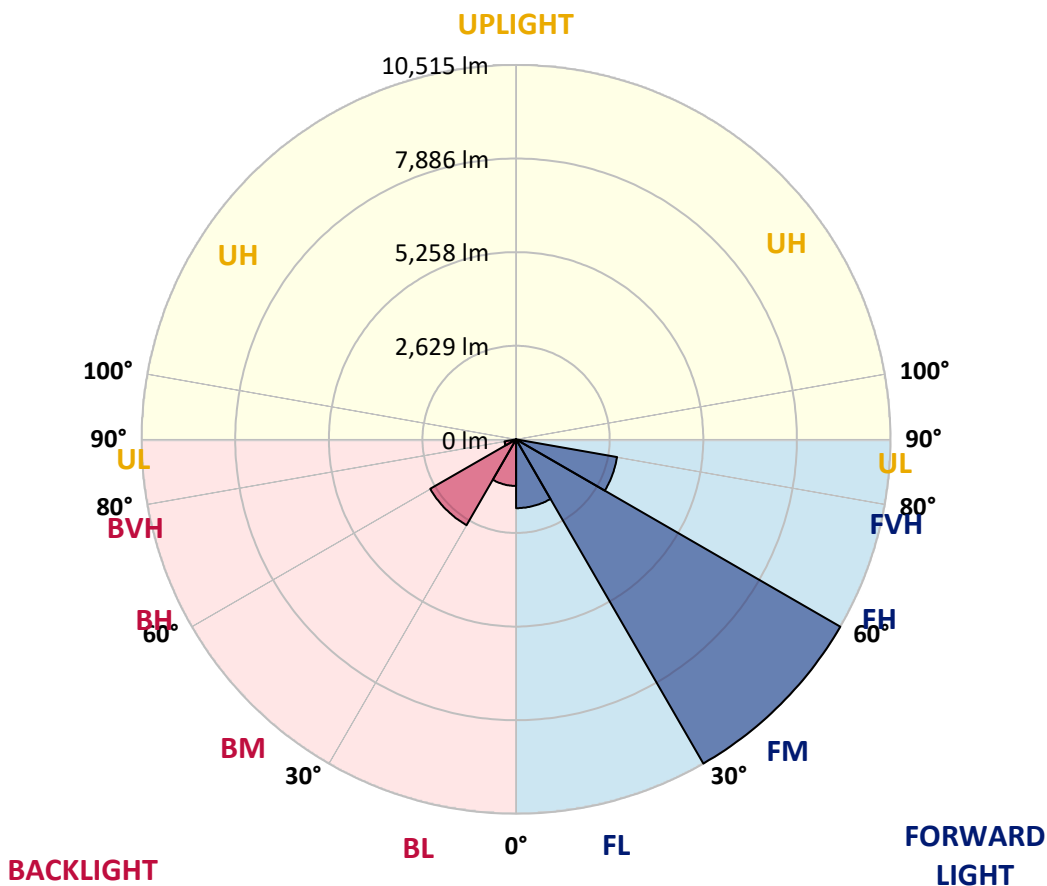
CATALOG NUMBER: GWS-SA5E-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.5	9.8			
FM (30°-60°)	10515.1	53.2			
FH (60°-80°)	2881.6	14.6			G2/5000
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1308.8	6.6	B3/2500		
BM (30°-60°)	2782.9	14.1	B3/5000		
BH (60°-80°)	331.5	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°	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9
2.5°	3761.2	3785.1	3824.9	3909.8	3981.5	4029.3	4050.5	4045.2	4016.0	3994.8	3952.3
5°	4164.6	4164.6	4241.6	4435.4	4584.0	4676.9	4724.7	4695.5	4637.1	4544.2	4400.9
7.5°	4517.7	4530.9	4661.0	4937.0	5162.7	5295.4	5372.3	5356.4	5252.9	5075.1	4788.4
10°	4793.7	4809.6	4982.2	5319.3	5584.7	5720.1	5834.2	5844.8	5730.7	5494.4	5165.3
12.5°	5061.8	5077.7	5258.2	5582.0	5815.6	5871.4	5972.2	6012.0	5982.8	5815.6	5473.2
15°	5351.1	5388.3	5542.2	5783.8	5882.0	5815.6	5882.0	5953.6	6051.9	6035.9	5728.0
17.5°	5635.1	5661.7	5818.3	5903.2	5794.4	5621.9	5653.7	5738.6	5961.6	6179.3	5980.2
20°	5897.9	5935.1	6065.1	5953.6	5624.5	5356.4	5359.1	5470.6	5810.3	6266.9	6237.7
22.5°	6174.0	6229.7	6322.6	6009.4	5467.9	5146.7	5160.0	5260.9	5690.9	6349.1	6529.6
25°	6534.9	6588.0	6649.1	6147.4	5417.5	5043.2	5093.6	5186.5	5690.9	6489.8	6890.6
27.5°	7023.3	7060.5	7063.2	6404.9	5505.1	5059.1	5165.3	5271.5	5860.7	6771.2	7373.7
30°	7636.5	7694.9	7617.9	6805.7	5778.5	5271.5	5428.1	5560.8	6227.0	7246.3	8085.1
32.5°	8382.4	8464.6	8361.1	7400.3	6349.1	6004.1	6288.1	6365.1	6811.0	7933.8	8892.0
35°	9258.3	9327.3	9215.8	8223.1	7681.6	7745.3	8260.3	8162.0	7984.2	8780.5	9834.3
37.5°	10219.1	10282.8	10067.8	9470.6	9651.1	9927.2	10750.0	10412.9	9839.6	9871.4	10856.2
40°	11100.4	11169.4	10832.3	10827.0	11198.6	11702.9	12695.6	12231.1	11450.7	11299.5	11814.4
42.5°	12013.5	12061.2	11756.0	11549.0	12393.0	13430.9	14482.0	13855.6	12517.8	12353.2	13014.1
45°	13316.7	13417.6	12873.5	11904.6	13468.0	15419.0	16884.1	15660.5	13245.1	13112.4	14850.9
47.5°	15233.2	15307.5	14198.0	12127.6	14468.7	17895.4	19886.2	18001.6	13884.8	13582.2	17361.9
50°	16817.8	16868.2	15416.3	12371.8	15533.1	20565.7	23307.6	20778.0	14604.1	14359.9	19705.7
52.5°	17985.7	18176.8	17016.9	12873.5	16931.9	23705.8	27095.3	24066.7	15726.9	15862.2	21648.7
55°	18227.2	18487.4	18110.4	13181.4	18163.5	26904.2	30593.7	27010.4	16847.0	17000.9	22301.6
57.5°	16018.8	16225.9	16539.1	11939.1	18134.3	28369.4	32624.3	27987.2	16337.4	15246.4	19857.0
60°	12000.2	12143.5	12711.6	9125.6	16677.1	27074.1	31042.3	26325.6	14285.6	11633.9	15129.6
62.5°	7116.2	7179.9	7899.3	5911.2	13842.3	23315.6	25744.3	22715.7	11288.8	7824.9	9266.2
65°	2731.3	2704.8	3254.2	2917.1	10179.3	18572.3	19148.3	17316.8	7745.3	3586.0	3532.9
67.5°	422.0	403.5	544.1	862.7	7341.9	12870.8	12634.6	12480.6	4852.1	836.1	729.9
70°	95.6	95.6	116.8	254.8	4485.8	7562.2	8093.0	7716.1	3105.6	177.8	95.6
72.5°	45.1	45.1	55.7	108.8	1624.4	3116.2	3631.1	3575.4	1008.6	58.4	34.5
75°	15.9	18.6	18.6	23.9	98.2	161.9	371.6	265.4	63.7	0.0	0.0
77.5°	5.3	5.3	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	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°	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9
2.5°	3859.4	3840.8	3771.8	3678.9	3588.6	3509.0	3426.7	3328.5	3256.9	3174.6	3148.0
5°	4289.4	4172.6	3984.1	3787.7	3607.2	3453.3	3304.6	3145.4	3028.6	2911.8	2872.0
7.5°	4653.0	4480.5	4175.3	3880.6	3633.8	3416.1	3201.1	2983.5	2813.6	2675.6	2633.1
10°	4979.5	4780.4	4371.7	4008.0	3697.5	3445.3	3185.2	2911.8	2691.5	2526.9	2487.1
12.5°	5260.9	5029.9	4538.9	4103.6	3724.0	3434.7	3182.5	2964.9	2765.8	2577.3	2526.9
15°	5497.1	5242.3	4679.6	4167.3	3684.2	3302.0	3081.7	3047.2	3031.2	2824.2	2726.0
17.5°	5728.0	5441.4	4793.7	4196.5	3572.7	3068.4	2909.1	3065.7	3233.0	3097.6	2972.8
20°	5969.6	5643.1	4910.5	4201.8	3386.9	2805.6	2779.1	3025.9	3238.3	3195.8	3079.0
22.5°	6253.6	5895.3	5056.5	4199.1	3153.3	2582.7	2683.5	2949.0	3121.5	3118.8	3025.9
25°	6665.0	6213.8	5252.9	4215.1	2898.5	2410.1	2577.3	2818.9	2959.6	2954.3	2877.3
27.5°	7105.6	6593.3	5507.7	4254.9	2680.9	2309.3	2452.6	2641.1	2763.2	2757.8	2691.5
30°	7724.1	7031.3	5751.9	4257.5	2524.3	2256.2	2314.6	2444.6	2561.4	2548.2	2497.7
32.5°	8475.3	7525.0	5956.3	4106.2	2426.1	2205.7	2171.2	2237.6	2327.8	2309.3	2296.0
35°	9383.0	8111.6	6131.5	3774.4	2274.8	2104.9	2012.0	2025.2	2089.0	2099.6	2094.3
37.5°	10418.2	8809.7	6349.1	3336.5	2070.4	1958.9	1834.1	1823.5	1860.7	1895.2	1921.7
40°	11440.1	9595.4	6643.8	2893.2	1884.6	1773.1	1653.6	1627.1	1643.0	1704.1	1759.8
42.5°	12589.5	10505.8	6962.3	2513.6	1757.2	1568.7	1454.6	1404.1	1449.3	1547.5	1613.8
45°	14245.8	11782.5	7272.8	2211.1	1704.1	1388.2	1234.3	1229.0	1279.4	1406.8	1481.1
47.5°	16570.9	13433.5	7477.2	1974.8	1701.4	1247.5	1064.4	1096.2	1154.6	1279.4	1364.3
50°	18837.7	15501.2	7251.6	1794.3	1645.7	1154.6	937.0	1000.7	1059.1	1167.9	1255.5
52.5°	20204.7	16613.4	6373.0	1624.4	1473.1	1112.2	812.2	923.7	934.3	1032.5	1125.4
55°	20061.4	15894.1	4881.3	1361.7	1218.3	1051.1	682.2	833.5	838.8	913.1	992.7
57.5°	17412.4	13645.9	3352.4	1104.2	915.7	868.0	562.7	703.4	753.8	799.0	857.3
60°	12977.0	9956.4	1494.4	897.2	581.3	586.6	480.4	530.9	607.8	660.9	711.4
62.5°	7647.1	5728.0	607.8	538.8	321.2	369.0	387.5	387.5	435.3	475.1	507.0
65°	2890.6	2004.0	246.9	270.7	167.2	172.5	228.3	281.4	318.5	353.0	395.5
67.5°	507.0	350.4	127.4	100.9	98.2	87.6	116.8	183.1	204.4	230.9	249.5
70°	84.9	71.7	53.1	50.4	45.1	47.8	77.0	130.1	143.3	151.3	159.3
72.5°	23.9	21.2	15.9	13.3	10.6	13.3	47.8	100.9	106.2	111.5	119.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	18.6	71.7	77.0	79.6	87.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	21.2	26.5	21.2
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°	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9
2.5°	3132.1	3079.0	3049.8	3033.9	3033.9	3012.7	2988.8	2980.8	3015.3	3015.3	3073.7
5°	2821.5	2779.1	2731.3	2702.1	2657.0	2664.9	2638.4	2635.7	2670.2	2686.2	2747.2
7.5°	2606.5	2553.5	2524.3	2505.7	2481.8	2471.2	2447.3	2439.3	2457.9	2484.4	2542.8
10°	2463.2	2455.2	2452.6	2465.9	2465.9	2452.6	2431.4	2418.1	2423.4	2473.8	2540.2
12.5°	2500.4	2516.3	2521.6	2542.8	2553.5	2542.8	2526.9	2532.2	2566.7	2659.6	2757.8
15°	2662.3	2649.0	2643.7	2654.3	2662.3	2651.7	2646.4	2686.2	2805.6	2938.3	3049.8
17.5°	2834.8	2749.9	2712.7	2712.7	2718.0	2712.7	2718.0	2795.0	2988.8	3121.5	3203.8
20°	2922.4	2765.8	2707.4	2694.1	2704.8	2707.4	2726.0	2813.6	3025.9	3118.8	3137.4
22.5°	2895.9	2699.4	2633.1	2622.5	2633.1	2643.7	2662.3	2736.6	2935.7	2983.5	2975.5
25°	2763.2	2569.4	2516.3	2516.3	2540.2	2537.5	2545.5	2598.6	2763.2	2792.3	2779.1
27.5°	2595.9	2412.8	2367.7	2394.2	2415.4	2410.1	2412.8	2457.9	2580.0	2588.0	2574.7
30°	2426.1	2266.8	2224.3	2256.2	2285.4	2280.1	2282.7	2327.8	2404.8	2396.9	2378.3
32.5°	2253.5	2136.7	2104.9	2123.5	2168.6	2163.3	2173.9	2221.7	2250.9	2216.4	2195.1
35°	2094.3	2033.2	2009.3	2019.9	2054.4	2062.4	2081.0	2112.8	2112.8	2070.4	2033.2
37.5°	1945.6	1937.7	1921.7	1908.5	1940.3	1964.2	1990.7	2027.9	1974.8	1913.8	1879.3
40°	1807.6	1842.1	1820.9	1786.4	1804.9	1839.4	1892.5	1921.7	1858.0	1797.0	1738.6
42.5°	1680.2	1738.6	1730.6	1688.1	1704.1	1735.9	1797.0	1820.9	1746.5	1677.5	1621.8
45°	1558.1	1640.4	1645.7	1592.6	1608.5	1640.4	1712.0	1720.0	1624.4	1550.1	1510.3
47.5°	1451.9	1542.2	1544.8	1505.0	1510.3	1555.4	1621.8	1624.4	1515.6	1446.6	1396.2
50°	1351.1	1454.6	1462.5	1428.0	1433.3	1486.4	1542.2	1531.5	1414.8	1343.1	1298.0
52.5°	1229.0	1369.6	1388.2	1372.3	1393.5	1436.0	1470.5	1433.3	1298.0	1226.3	1186.5
55°	1096.2	1279.4	1319.2	1308.6	1332.5	1367.0	1374.9	1351.1	1181.2	1109.5	1072.3
57.5°	942.3	1053.8	1122.8	1101.5	1120.1	1154.6	1178.5	1159.9	1032.5	976.8	944.9
60°	780.4	854.7	870.6	836.1	820.2	881.2	937.0	913.1	804.3	769.8	732.6
62.5°	570.7	655.6	666.2	621.1	602.5	668.9	716.7	692.8	573.3	536.2	507.0
65°	456.5	536.2	557.4	514.9	504.3	554.8	584.0	525.6	440.6	400.8	369.0
67.5°	299.9	363.6	419.4	416.7	395.5	411.4	390.2	342.4	281.4	260.1	238.9
70°	185.8	223.0	257.5	270.7	268.1	262.8	233.6	199.1	180.5	172.5	161.9
72.5°	143.3	180.5	207.0	215.0	217.7	209.7	185.8	154.0	135.4	124.8	116.8
75°	106.2	135.4	156.6	167.2	172.5	167.2	143.3	122.1	103.5	95.6	87.6
77.5°	37.2	45.1	55.7	61.0	58.4	55.7	50.4	50.4	39.8	37.2	31.9
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: P640683

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9
2.5°	3140.1	3187.8	3275.4	3355.1	3440.0	3527.6	3623.2	3721.4	3766.5	3761.2
5°	2840.1	2943.6	3087.0	3243.6	3418.8	3607.2	3816.9	4031.9	4124.8	4164.6
7.5°	2651.7	2797.7	2986.1	3185.2	3416.1	3684.2	4000.1	4337.2	4472.5	4517.7
10°	2675.6	2845.4	3002.0	3195.8	3442.7	3790.4	4183.2	4584.0	4743.3	4793.7
12.5°	2869.3	2906.5	2949.0	3108.2	3418.8	3870.0	4350.4	4828.2	5011.4	5061.8
15°	3044.5	2872.0	2792.3	2938.3	3333.8	3925.7	4520.3	5091.0	5292.7	5351.1
17.5°	3052.5	2792.3	2614.5	2728.6	3195.8	3949.6	4687.5	5359.1	5579.4	5635.1
20°	2954.3	2704.8	2476.5	2479.1	3007.3	3944.3	4825.6	5600.6	5847.5	5897.9
22.5°	2810.9	2601.2	2365.0	2282.7	2805.6	3933.7	4976.9	5858.1	6126.2	6174.0
25°	2651.7	2468.5	2258.8	2134.1	2603.9	3944.3	5189.2	6195.2	6489.8	6534.9
27.5°	2479.1	2322.5	2176.5	2075.7	2434.0	3984.1	5444.0	6625.2	6975.6	7023.3
30°	2298.6	2181.9	2123.5	2062.4	2327.8	3994.8	5720.1	7126.9	7570.1	7636.5
32.5°	2120.8	2057.1	2059.8	2070.4	2227.0	3920.4	5972.2	7684.3	8276.2	8382.4
35°	1956.2	1937.7	1990.7	2043.8	2081.0	3729.3	6192.5	8342.5	9149.5	9258.3
37.5°	1815.6	1831.5	1897.8	1950.9	1921.7	3458.6	6484.5	9165.4	10126.2	10219.1
40°	1680.2	1720.0	1797.0	1820.9	1799.6	3142.7	6834.9	9959.0	10973.0	11100.4
42.5°	1555.4	1584.6	1693.5	1698.8	1765.1	2821.5	7172.0	10813.7	11947.1	12013.5
45°	1454.6	1449.3	1560.7	1595.2	1810.2	2465.9	7501.1	11952.4	13221.2	13316.7
47.5°	1356.4	1351.1	1377.6	1534.2	1828.8	2136.7	7827.6	13619.3	15068.6	15233.2
50°	1263.5	1271.4	1189.1	1505.0	1728.0	1884.6	7976.2	15161.5	16748.8	16817.8
52.5°	1181.2	1152.0	1008.6	1409.4	1513.0	1645.7	7554.2	15862.2	17789.3	17985.7
55°	1064.4	902.5	830.8	1144.0	1194.4	1436.0	6187.2	15456.1	17879.5	18227.2
57.5°	910.4	708.7	706.0	844.1	844.1	1332.5	3962.9	13205.3	15408.3	16018.8
60°	700.7	549.4	584.0	586.6	541.5	971.5	2224.3	9566.2	11392.4	12000.2
62.5°	499.0	419.4	440.6	350.4	310.6	485.7	1067.0	5507.7	7031.3	7116.2
65°	334.4	284.0	230.9	193.8	191.1	207.0	440.6	1990.7	2420.7	2731.3
67.5°	220.3	172.5	122.1	122.1	138.0	138.0	167.2	329.1	461.9	422.0
70°	143.3	119.4	77.0	74.3	90.2	90.2	84.9	90.2	95.6	95.6
72.5°	106.2	90.2	45.1	39.8	50.4	53.1	47.8	45.1	45.1	45.1
75°	79.6	63.7	26.5	18.6	23.9	31.9	26.5	18.6	18.6	15.9
77.5°	31.9	23.9	10.6	8.0	13.3	18.6	15.9	8.0	5.3	5.3
80°	2.7	5.3	5.3	5.3	8.0	10.6	13.3	5.3	2.7	2.7
82.5°	0.0	2.7	2.7	2.7	5.3	8.0	10.6	5.3	2.7	2.7
85°	0.0	0.0	0.0	0.0	5.3	8.0	5.3	2.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.7	8.0	5.3	2.7	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)