

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: P640848

Luminaire Tested: GWS-SA5E-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640848
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20205.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

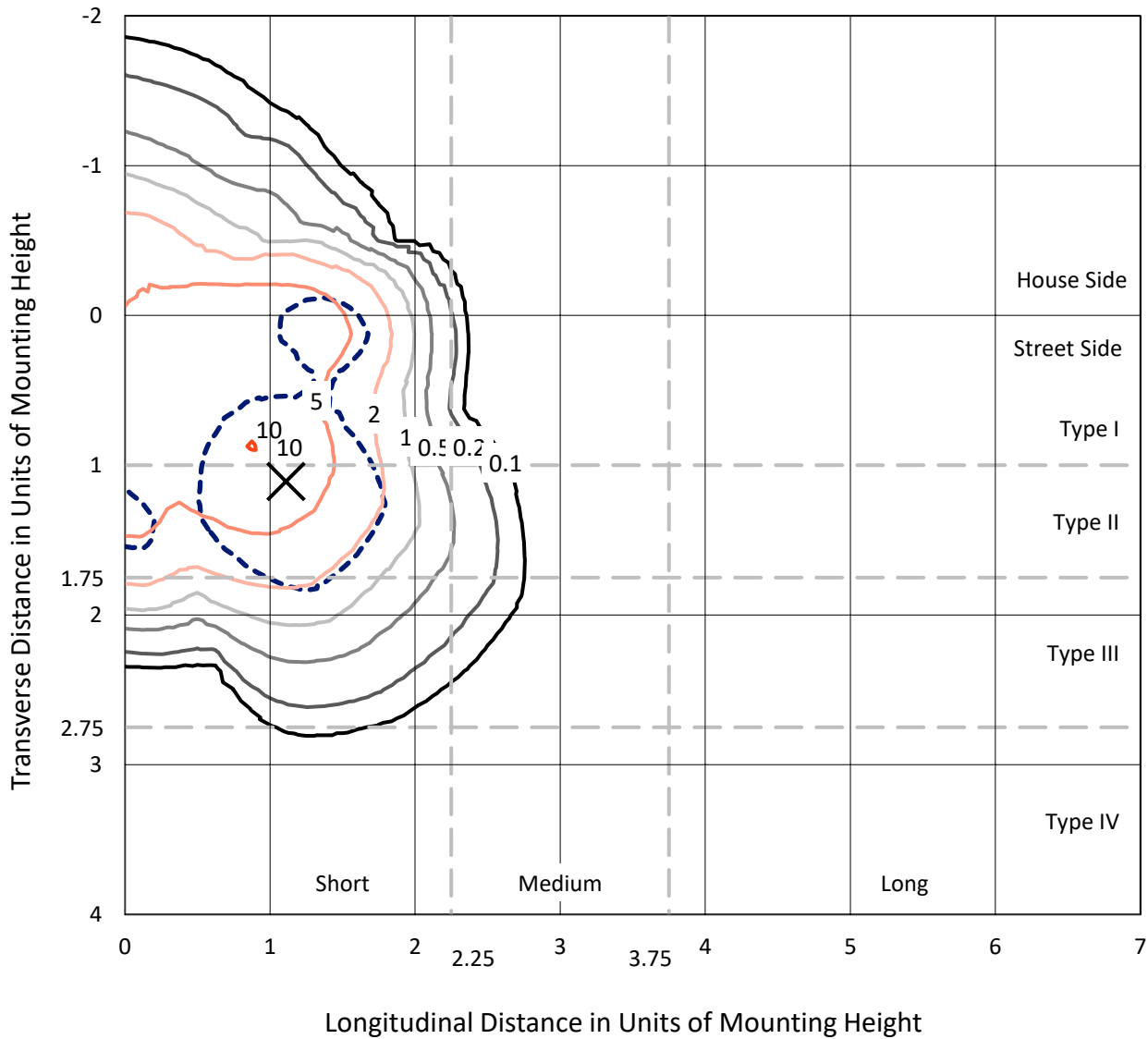
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

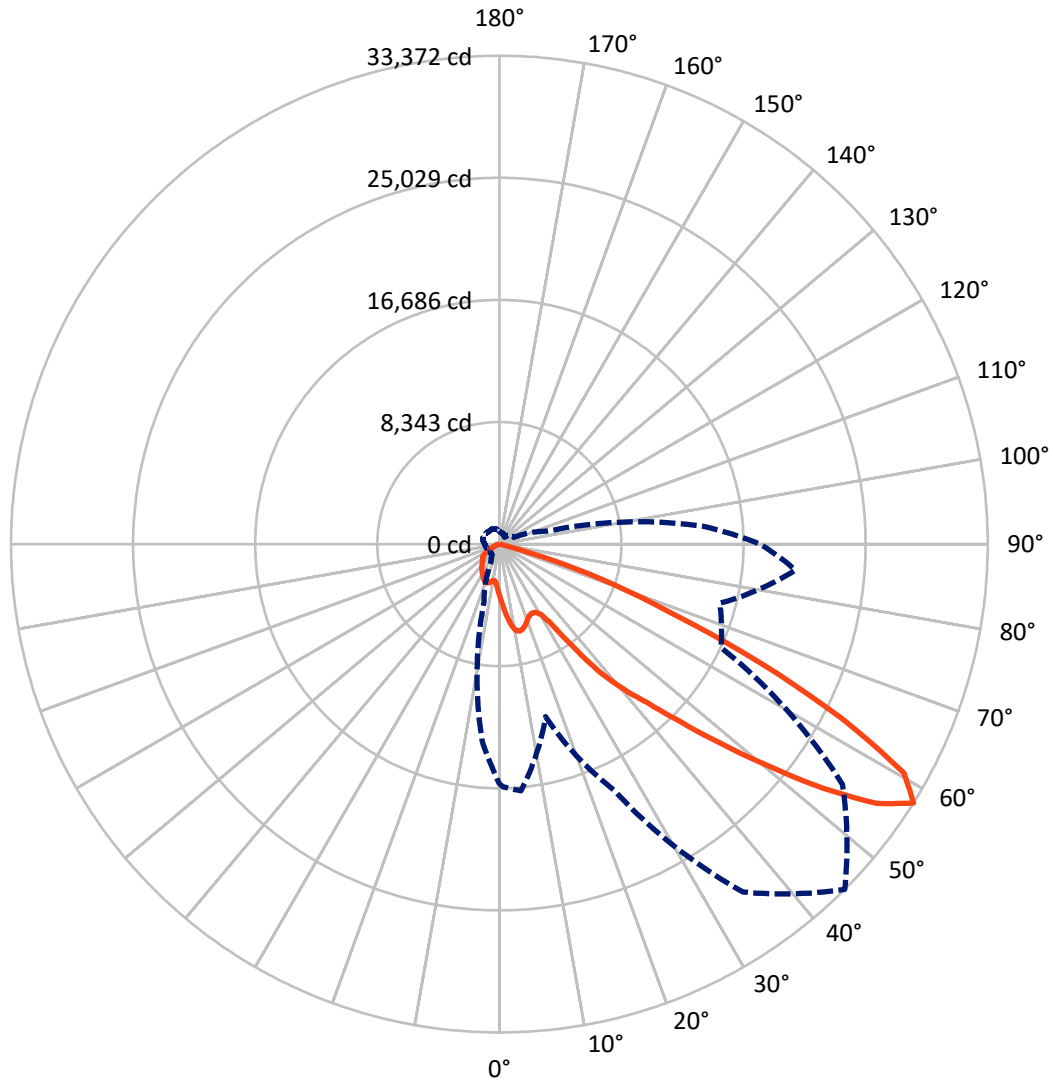
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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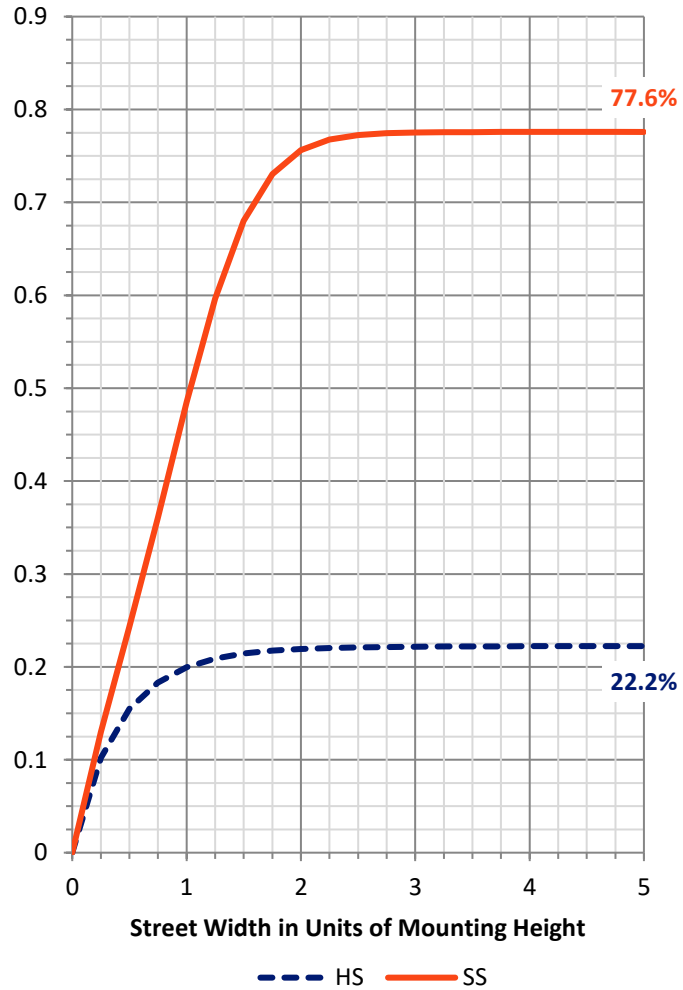
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4524.6	0.0	4524.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15681.3	0.0	15681.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	20205.9	0.0	20205.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.4	1.7
10°-20°	1130.2	5.6
20°-30°	1836.0	9.1
30°-40°	2836.8	14.0
40°-50°	4548.9	22.5
50°-60°	6217.1	30.8
60°-70°	3011.1	14.9
70°-80°	275.7	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°	20205.9	100.0
0°-180°	20205.9	100.0

Coefficient of Utilization



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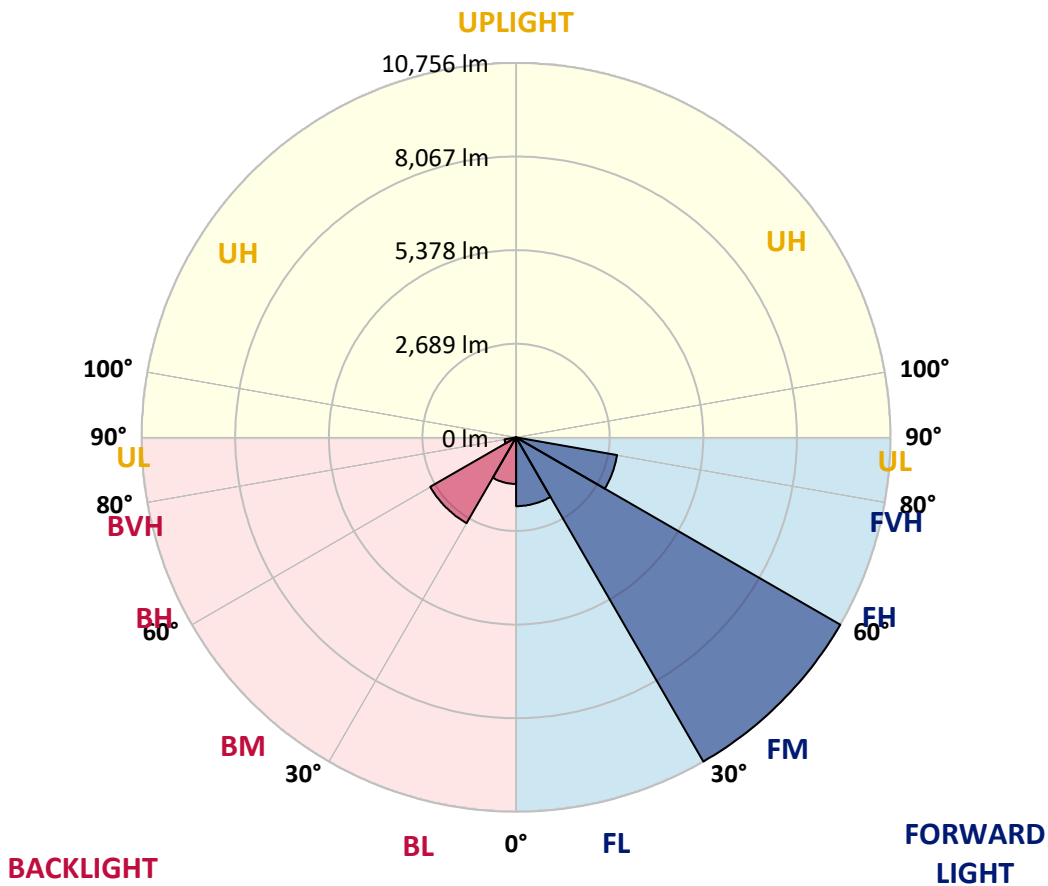
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.8	9.8			
FM (30°-60°)	10756.1	53.2			
FH (60°-80°)	2947.7	14.6			G2/5000
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1338.8	6.6	B3/2500		
BM (30°-60°)	2846.7	14.1	B3/5000		
BH (60°-80°)	339.1	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°	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4
2.5°	3847.4	3871.8	3912.5	3999.4	4072.7	4121.6	4143.3	4137.9	4108.0	4086.3	4042.8
5°	4260.1	4260.1	4338.8	4537.0	4689.0	4784.1	4833.0	4803.1	4743.4	4648.3	4501.7
7.5°	4621.2	4634.7	4767.8	5050.2	5280.9	5416.7	5495.4	5479.2	5373.3	5191.3	4898.1
10°	4903.5	4919.8	5096.3	5441.1	5712.7	5851.1	5967.9	5978.7	5862.0	5620.3	5283.7
12.5°	5177.8	5194.1	5378.7	5709.9	5948.9	6005.9	6109.1	6149.8	6119.9	5948.9	5598.6
15°	5473.7	5511.7	5669.2	5916.3	6016.8	5948.9	6016.8	6090.1	6190.5	6174.2	5859.3
17.5°	5764.2	5791.4	5951.6	6038.5	5927.2	5750.7	5783.2	5870.1	6098.2	6320.8	6117.2
20°	6033.0	6071.1	6204.1	6090.1	5753.4	5479.2	5481.9	5595.9	5943.4	6410.4	6380.6
22.5°	6315.4	6372.4	6467.5	6147.1	5593.2	5264.7	5278.2	5381.4	5821.3	6494.6	6679.2
25°	6684.7	6739.0	6801.4	6288.3	5541.6	5158.8	5210.4	5305.4	5821.3	6638.5	7048.5
27.5°	7184.3	7222.3	7225.0	6551.6	5631.2	5175.1	5283.7	5392.3	5995.0	6926.3	7542.7
30°	7811.5	7871.2	7792.5	6961.6	5910.9	5392.3	5552.5	5688.2	6369.7	7412.3	8270.3
32.5°	8574.4	8658.6	8552.7	7569.8	6494.6	6141.6	6432.2	6510.9	6967.1	8115.6	9095.7
35°	9470.4	9541.0	9427.0	8411.5	7857.6	7922.8	8449.5	8349.1	8167.1	8981.7	10059.6
37.5°	10453.3	10518.5	10298.5	9687.6	9872.3	10154.6	10996.3	10651.5	10065.0	10097.6	11104.9
40°	11354.7	11425.3	11080.5	11075.1	11455.2	11971.1	12986.5	12511.4	11713.1	11558.4	12085.1
42.5°	12288.7	12337.6	12025.4	11813.6	12677.0	13738.6	14813.8	14173.0	12804.6	12636.3	13312.3
45°	13621.9	13725.0	13168.4	12177.4	13776.6	15772.3	17271.0	16019.3	13548.6	13412.8	15191.2
47.5°	15582.2	15658.2	14523.3	12405.5	14800.2	18305.5	20341.8	18414.1	14202.9	13893.4	17759.7
50°	17203.1	17254.7	15769.5	12655.3	15889.0	21036.9	23841.6	21254.1	14938.7	14688.9	20157.2
52.5°	18397.8	18593.3	17406.8	13168.4	17319.9	24248.9	27716.2	24618.2	16087.2	16225.7	22144.7
55°	18644.9	18911.0	18525.4	13483.4	18579.7	27520.7	31294.7	27629.3	17233.0	17390.5	22812.6
57.5°	16385.9	16597.7	16918.0	12212.7	18549.8	29019.4	33371.8	28628.4	16711.7	15595.8	20312.0
60°	12275.2	12421.8	13002.8	9334.7	17059.2	27694.4	31753.6	26928.8	14612.9	11900.5	15476.3
62.5°	7279.3	7344.5	8080.3	6046.6	14159.5	23849.8	26334.1	23236.2	11547.5	8004.2	9478.6
65°	2793.9	2766.7	3328.8	2983.9	10412.6	18997.8	19587.0	17713.6	7922.8	3668.2	3613.9
67.5°	431.7	412.7	556.6	882.4	7510.1	13165.7	12924.1	12766.6	4963.3	855.3	746.7
70°	97.7	97.7	119.5	260.7	4588.6	7735.4	8278.5	7892.9	3176.7	181.9	97.7
72.5°	46.2	46.2	57.0	111.3	1661.7	3187.6	3714.3	3657.3	1031.8	59.7	35.3
75°	16.3	19.0	19.0	24.4	100.5	165.6	380.1	271.5	65.2	0.0	0.0
77.5°	5.4	5.4	5.4	5.4	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°	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4
2.5°	3947.8	3928.8	3858.2	3763.2	3670.9	3589.4	3505.2	3404.8	3331.5	3247.3	3220.2
5°	4387.7	4268.2	4075.4	3874.5	3689.9	3532.4	3380.3	3217.4	3098.0	2978.5	2937.8
7.5°	4759.6	4583.2	4270.9	3969.5	3717.0	3494.4	3274.5	3051.8	2878.0	2736.9	2693.4
10°	5093.6	4890.0	4471.8	4099.9	3782.2	3524.3	3258.2	2978.5	2753.2	2584.8	2544.1
12.5°	5381.4	5145.2	4642.9	4197.6	3809.3	3513.4	3255.5	3032.8	2829.2	2636.4	2584.8
15°	5623.1	5362.4	4786.8	4262.8	3768.6	3377.6	3152.3	3117.0	3100.7	2888.9	2788.4
17.5°	5859.3	5566.0	4903.5	4292.6	3654.6	3138.7	2975.8	3136.0	3307.0	3168.6	3041.0
20°	6106.4	5772.4	5023.0	4298.1	3464.5	2869.9	2842.8	3095.3	3312.5	3269.0	3149.6
22.5°	6396.9	6030.3	5172.3	4295.4	3225.6	2641.8	2745.0	3016.5	3193.0	3190.3	3095.3
25°	6817.7	6356.1	5373.3	4311.6	2964.9	2465.3	2636.4	2883.5	3027.4	3022.0	2943.2
27.5°	7268.4	6744.4	5633.9	4352.4	2742.3	2362.2	2508.8	2701.6	2826.5	2821.0	2753.2
30°	7901.1	7192.4	5883.7	4355.1	2582.1	2307.9	2367.6	2500.6	2620.1	2606.5	2554.9
32.5°	8669.4	7697.4	6092.8	4200.3	2481.6	2256.3	2221.0	2288.9	2381.2	2362.2	2348.6
35°	9598.0	8297.5	6272.0	3860.9	2326.9	2153.1	2058.1	2071.7	2136.8	2147.7	2142.2
37.5°	10656.9	9011.6	6494.6	3412.9	2117.8	2003.8	1876.2	1865.3	1903.3	1938.6	1965.8
40°	11702.3	9815.2	6796.0	2959.5	1927.7	1813.7	1691.5	1664.4	1680.7	1743.1	1800.1
42.5°	12877.9	10746.5	7121.8	2571.2	1797.4	1604.6	1487.9	1436.3	1482.5	1582.9	1650.8
45°	14572.2	12052.5	7439.5	2261.7	1743.1	1420.0	1262.5	1257.1	1308.7	1439.0	1515.0
47.5°	16950.6	13741.3	7648.6	2020.1	1740.4	1276.1	1088.8	1121.4	1181.1	1308.7	1395.6
50°	19269.4	15856.4	7417.8	1835.4	1683.4	1181.1	958.4	1023.6	1083.3	1194.7	1284.3
52.5°	20667.6	16994.1	6519.1	1661.7	1506.9	1137.6	830.8	944.9	955.7	1056.2	1151.2
55°	20521.0	16258.3	4993.1	1392.9	1246.2	1075.2	697.8	852.6	858.0	934.0	1015.5
57.5°	17811.3	13958.5	3429.2	1129.5	936.7	887.9	575.6	719.5	771.1	817.3	877.0
60°	13274.3	10184.5	1528.6	917.7	594.6	600.0	491.4	543.0	621.8	676.1	727.7
62.5°	7822.3	5859.3	621.8	551.2	328.5	377.4	396.4	396.4	445.3	486.0	518.6
65°	2956.8	2049.9	252.5	276.9	171.1	176.5	233.5	287.8	325.8	361.1	404.6
67.5°	518.6	358.4	130.3	103.2	100.5	89.6	119.5	187.3	209.1	236.2	255.2
70°	86.9	73.3	54.3	51.6	46.2	48.9	78.7	133.0	146.6	154.8	162.9
72.5°	24.4	21.7	16.3	13.6	10.9	13.6	48.9	103.2	108.6	114.0	122.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	19.0	73.3	78.7	81.5	89.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	21.7	27.2	21.7
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°	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4
2.5°	3203.9	3149.6	3119.7	3103.4	3103.4	3081.7	3057.2	3049.1	3084.4	3084.4	3144.1
5°	2886.2	2842.8	2793.9	2764.0	2717.9	2726.0	2698.8	2696.1	2731.4	2747.7	2810.2
7.5°	2666.3	2612.0	2582.1	2563.1	2538.7	2527.8	2503.4	2495.2	2514.2	2541.4	2601.1
10°	2519.7	2511.5	2508.8	2522.4	2522.4	2508.8	2487.1	2473.5	2478.9	2530.5	2598.4
12.5°	2557.7	2574.0	2579.4	2601.1	2612.0	2601.1	2584.8	2590.2	2625.5	2720.6	2821.0
15°	2723.3	2709.7	2704.3	2715.1	2723.3	2712.4	2707.0	2747.7	2869.9	3005.7	3119.7
17.5°	2899.8	2812.9	2774.9	2774.9	2780.3	2774.9	2780.3	2859.0	3057.2	3193.0	3277.2
20°	2989.4	2829.2	2769.4	2755.9	2766.7	2769.4	2788.4	2878.0	3095.3	3190.3	3209.3
22.5°	2962.2	2761.3	2693.4	2682.6	2693.4	2704.3	2723.3	2799.3	3002.9	3051.8	3043.7
25°	2826.5	2628.3	2574.0	2574.0	2598.4	2595.7	2603.8	2658.1	2826.5	2856.3	2842.8
27.5°	2655.4	2468.1	2421.9	2449.1	2470.8	2465.3	2468.1	2514.2	2639.1	2647.3	2633.7
30°	2481.6	2318.7	2275.3	2307.9	2337.7	2332.3	2335.0	2381.2	2459.9	2451.8	2432.8
32.5°	2305.2	2185.7	2153.1	2172.1	2218.3	2212.8	2223.7	2272.6	2302.4	2267.1	2245.4
35°	2142.2	2079.8	2055.4	2066.2	2101.5	2109.7	2128.7	2161.3	2161.3	2117.8	2079.8
37.5°	1990.2	1982.1	1965.8	1952.2	1984.8	2009.2	2036.4	2074.4	2020.1	1957.6	1922.3
40°	1849.0	1884.3	1862.6	1827.3	1846.3	1881.6	1935.9	1965.8	1900.6	1838.2	1778.4
42.5°	1718.7	1778.4	1770.3	1726.8	1743.1	1775.7	1838.2	1862.6	1786.6	1716.0	1659.0
45°	1593.8	1678.0	1683.4	1629.1	1645.4	1678.0	1751.3	1759.4	1661.7	1585.6	1544.9
47.5°	1485.2	1577.5	1580.2	1539.5	1544.9	1591.1	1659.0	1661.7	1550.3	1479.8	1428.2
50°	1382.0	1487.9	1496.0	1460.7	1466.2	1520.5	1577.5	1566.6	1447.2	1373.9	1327.7
52.5°	1257.1	1401.0	1420.0	1403.7	1425.4	1468.9	1504.2	1466.2	1327.7	1254.4	1213.7
55°	1121.4	1308.7	1349.4	1338.6	1363.0	1398.3	1406.4	1382.0	1208.2	1134.9	1096.9
57.5°	963.9	1077.9	1148.5	1126.8	1145.8	1181.1	1205.5	1186.5	1056.2	999.2	966.6
60°	798.3	874.3	890.6	855.3	839.0	901.4	958.4	934.0	822.7	787.4	749.4
62.5°	583.8	670.6	681.5	635.3	616.3	684.2	733.1	708.7	586.5	548.5	518.6
65°	467.0	548.5	570.2	526.7	515.9	567.5	597.3	537.6	450.7	410.0	377.4
67.5°	306.8	372.0	429.0	426.3	404.6	420.8	399.1	350.3	287.8	266.1	244.4
70°	190.1	228.1	263.4	276.9	274.2	268.8	238.9	203.6	184.6	176.5	165.6
72.5°	146.6	184.6	211.8	219.9	222.6	214.5	190.1	157.5	138.5	127.6	119.5
75°	108.6	138.5	160.2	171.1	176.5	171.1	146.6	124.9	105.9	97.7	89.6
77.5°	38.0	46.2	57.0	62.4	59.7	57.0	51.6	51.6	40.7	38.0	32.6
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



REPORT NUMBER: P640848

CATALOG NUMBER: GWS-SA5E-760-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4	3551.4
2.5°	3212.0	3260.9	3350.5	3431.9	3518.8	3608.4	3706.2	3806.6	3852.8	3847.4
5°	2905.2	3011.1	3157.7	3317.9	3497.1	3689.9	3904.4	4124.3	4219.3	4260.1
7.5°	2712.4	2861.8	3054.5	3258.2	3494.4	3768.6	4091.7	4436.5	4575.0	4621.2
10°	2736.9	2910.6	3070.8	3269.0	3521.5	3877.2	4279.1	4689.0	4852.0	4903.5
12.5°	2935.1	2973.1	3016.5	3179.4	3497.1	3958.7	4450.1	4938.8	5126.2	5177.8
15°	3114.3	2937.8	2856.3	3005.7	3410.2	4015.7	4623.9	5207.6	5414.0	5473.7
17.5°	3122.4	2856.3	2674.4	2791.2	3269.0	4040.1	4794.9	5481.9	5707.2	5764.2
20°	3022.0	2766.7	2533.2	2535.9	3076.3	4034.7	4936.1	5728.9	5981.5	6033.0
22.5°	2875.3	2660.8	2419.2	2335.0	2869.9	4023.8	5090.9	5992.3	6266.5	6315.4
25°	2712.4	2525.1	2310.6	2183.0	2663.6	4034.7	5308.1	6337.1	6638.5	6684.7
27.5°	2535.9	2375.7	2226.4	2123.2	2489.8	4075.4	5568.8	6777.0	7135.4	7184.3
30°	2351.3	2231.8	2172.1	2109.7	2381.2	4086.3	5851.1	7290.2	7743.6	7811.5
32.5°	2169.4	2104.2	2106.9	2117.8	2278.0	4010.3	6109.1	7860.3	8465.8	8574.4
35°	2001.1	1982.1	2036.4	2090.7	2128.7	3814.8	6334.4	8533.7	9359.1	9470.4
37.5°	1857.2	1873.4	1941.3	1995.6	1965.8	3537.8	6633.1	9375.4	10358.3	10453.3
40°	1718.7	1759.4	1838.2	1862.6	1840.9	3214.7	6991.5	10187.2	11224.4	11354.7
42.5°	1591.1	1620.9	1732.3	1737.7	1805.6	2886.2	7336.3	11061.5	12220.8	12288.7
45°	1487.9	1482.5	1596.5	1631.8	1851.7	2522.4	7673.0	12226.3	13524.1	13621.9
47.5°	1387.4	1382.0	1409.2	1569.4	1870.7	2185.7	8006.9	13931.4	15413.9	15582.2
50°	1292.4	1300.6	1216.4	1539.5	1767.6	1927.7	8159.0	15508.9	17132.5	17203.1
52.5°	1208.2	1178.4	1031.8	1441.7	1547.6	1683.4	7727.3	16225.7	18196.9	18397.8
55°	1088.8	923.1	849.8	1170.2	1221.8	1468.9	6329.0	15810.3	18289.2	18644.9
57.5°	931.3	724.9	722.2	863.4	863.4	1363.0	4053.7	13507.8	15761.4	16385.9
60°	716.8	562.0	597.3	600.0	553.9	993.7	2275.3	9785.4	11653.4	12275.2
62.5°	510.4	429.0	450.7	358.4	317.7	496.9	1091.5	5633.9	7192.4	7279.3
65°	342.1	290.5	236.2	198.2	195.5	211.8	450.7	2036.4	2476.2	2793.9
67.5°	225.4	176.5	124.9	124.9	141.2	141.2	171.1	336.7	472.4	431.7
70°	146.6	122.2	78.7	76.0	92.3	92.3	86.9	92.3	97.7	97.7
72.5°	108.6	92.3	46.2	40.7	51.6	54.3	48.9	46.2	46.2	46.2
75°	81.5	65.2	27.2	19.0	24.4	32.6	27.2	19.0	19.0	16.3
77.5°	32.6	24.4	10.9	8.1	13.6	19.0	16.3	8.1	5.4	5.4
80°	2.7	5.4	5.4	5.4	8.1	10.9	13.6	5.4	2.7	2.7
82.5°	0.0	2.7	2.7	2.7	5.4	8.1	10.9	5.4	2.7	2.7
85°	0.0	0.0	0.0	0.0	5.4	8.1	5.4	2.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.7	8.1	5.4	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)