

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: P643319

Luminaire Tested: GWS-SA6E-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643319
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-SAGE-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24217.2 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

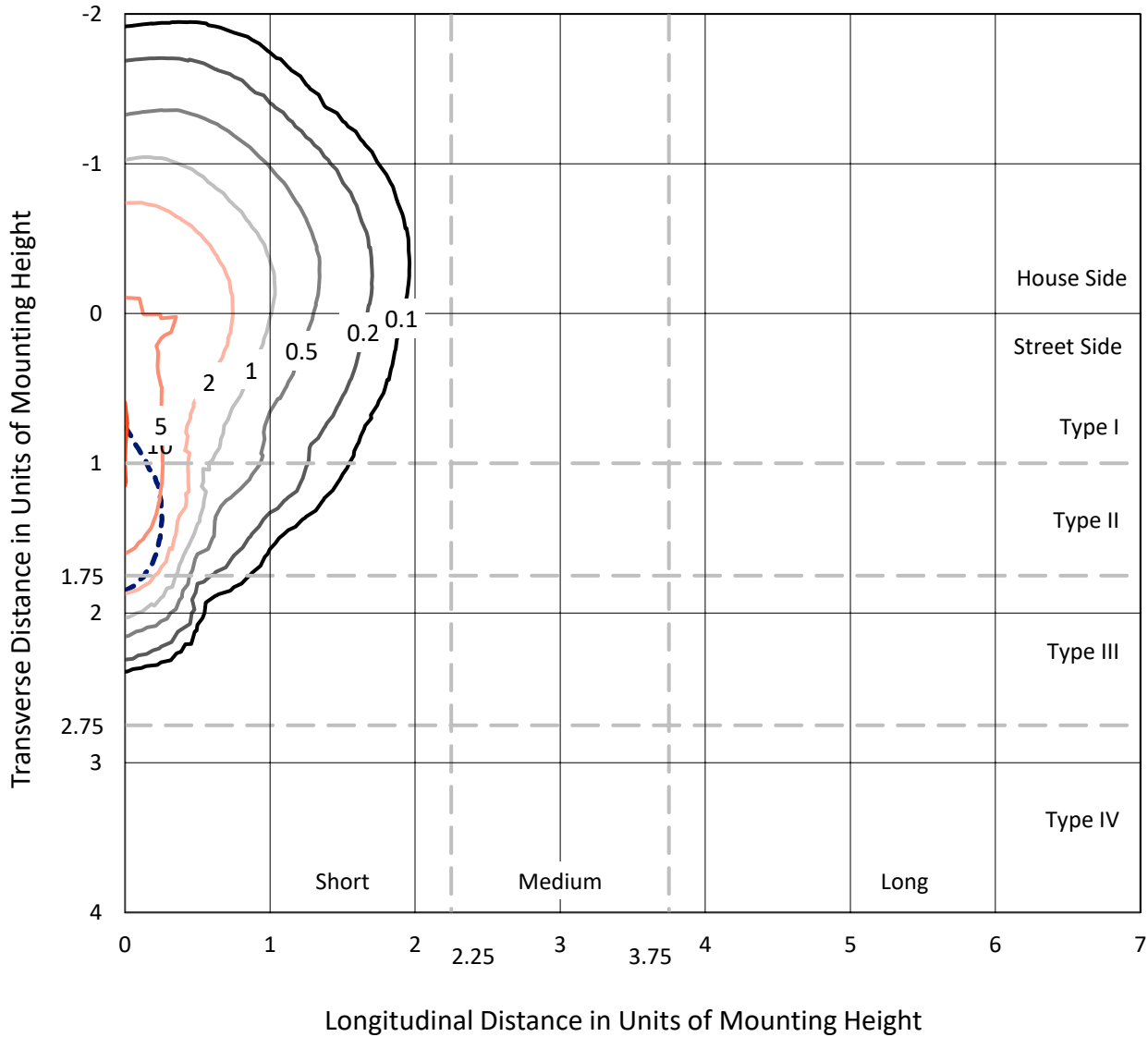
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

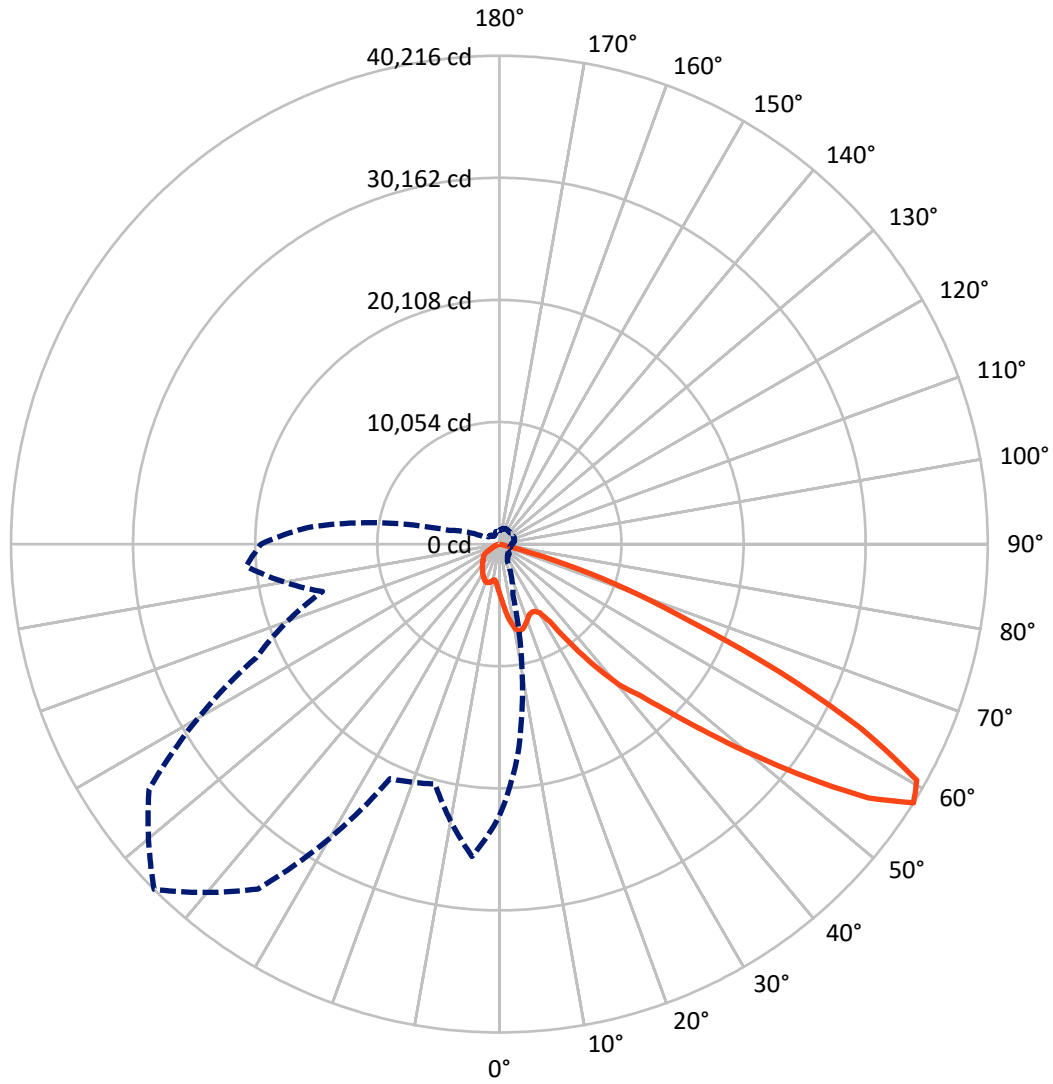
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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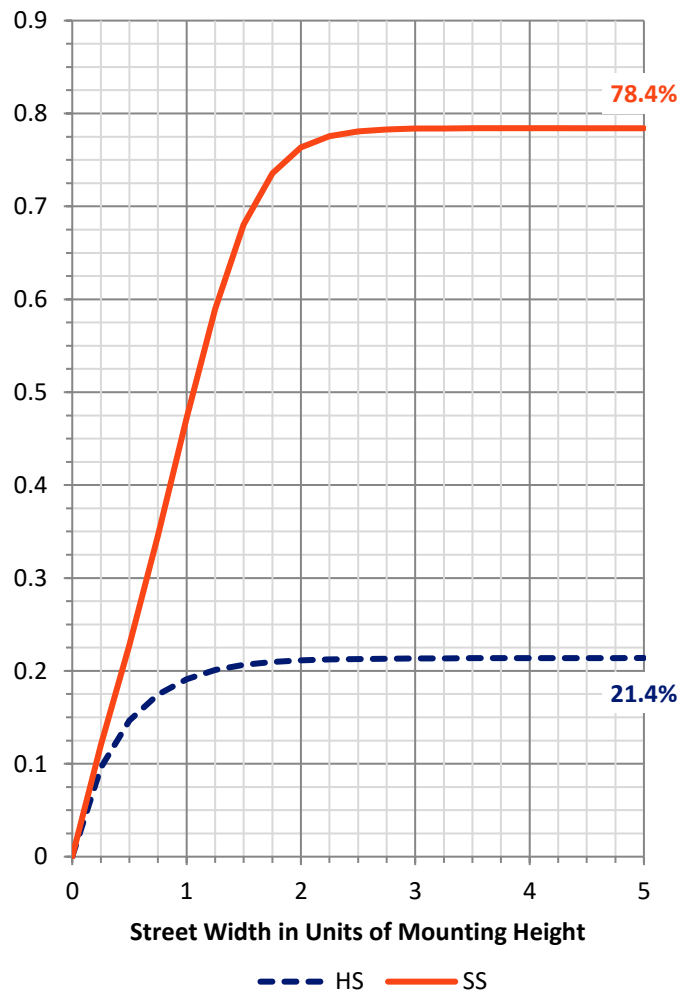
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5217.2	0.0	5217.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	19000.0	0.0	19000.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	24217.2	0.0	24217.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	1.7
10°-20°	1338.3	5.5
20°-30°	2171.8	9.0
30°-40°	3333.3	13.8
40°-50°	5323.5	22.0
50°-60°	7453.9	30.8
60°-70°	3821.8	15.8
70°-80°	367.9	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°	24217.2	100.0
0°-180°	24217.2	100.0

Coefficient of Utilization



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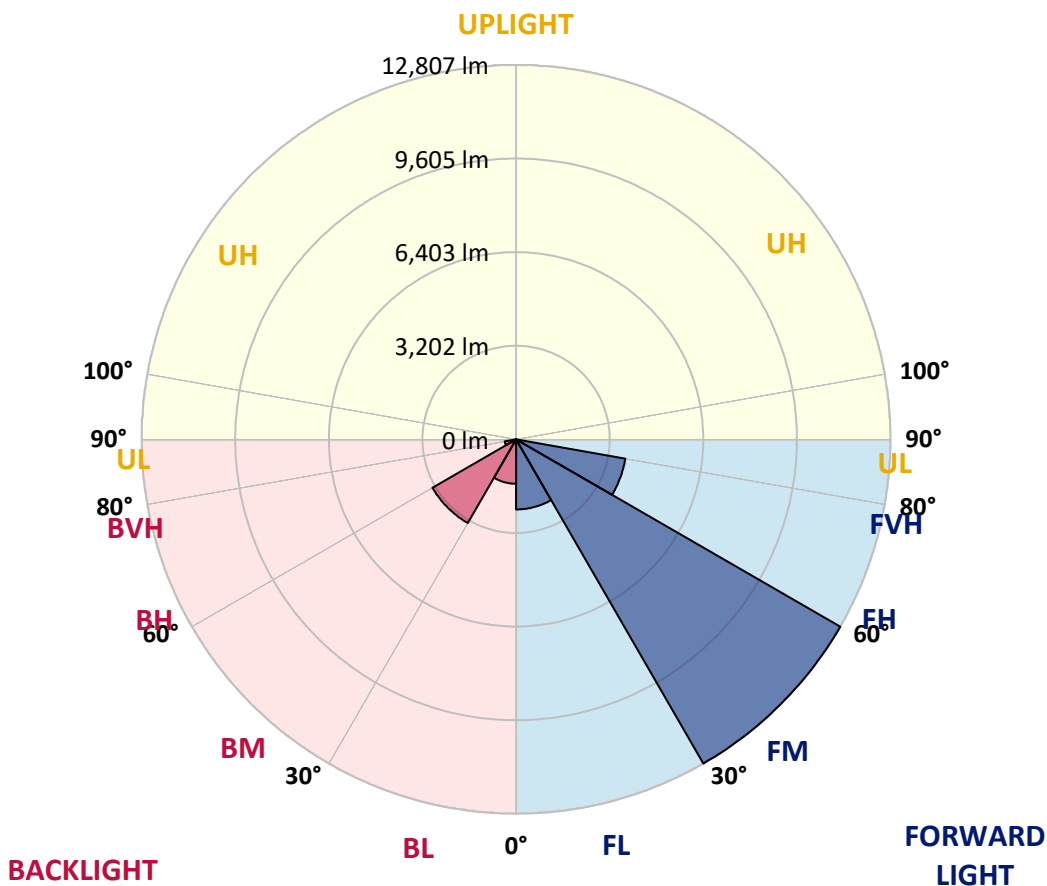
CATALOG NUMBER: GWS-SA6E-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.7	9.9			
FM (30°-60°)	12806.6	52.9			
FH (60°-80°)	3795.7	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1519.1	6.3	B3/2500		
BM (30°-60°)	3304.0	13.6	B3/5000		
BH (60°-80°)	394.0	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°	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9
2.5°	4571.3	4561.6	4529.3	4419.2	4351.2	4244.4	4166.7	4066.3	3956.2	3888.2	3820.2
5°	5057.0	5031.1	4943.7	4691.1	4496.9	4286.4	4118.1	3933.6	3736.1	3606.6	3486.8
7.5°	5523.2	5484.3	5367.8	4940.4	4645.8	4344.7	4105.1	3836.4	3558.0	3363.8	3214.8
10°	5979.7	5892.2	5707.7	5183.2	4785.0	4422.4	4140.8	3833.2	3506.2	3260.2	3095.0
12.5°	6355.2	6290.5	6037.9	5413.1	4901.6	4438.6	4092.2	3807.3	3587.1	3422.0	3269.9
15°	6679.0	6607.7	6368.2	5620.3	5001.9	4373.9	3888.2	3638.9	3674.6	3739.3	3609.8
17.5°	6976.8	6902.3	6643.3	5791.9	5040.8	4215.2	3603.3	3483.5	3681.0	3923.8	3875.3
20°	7284.4	7200.2	6882.9	5931.1	5027.8	3965.9	3315.2	3350.8	3629.2	3907.7	3933.6
22.5°	7643.7	7556.3	7187.2	6109.2	5018.1	3668.1	3065.9	3234.3	3532.1	3768.4	3813.8
25°	8119.6	8016.0	7611.4	6371.4	5044.0	3396.1	2887.8	3120.9	3367.0	3580.7	3606.6
27.5°	8747.7	8615.0	8100.2	6695.1	5099.1	3182.5	2810.1	2965.5	3156.6	3347.6	3370.2
30°	9566.8	9398.5	8660.3	6976.8	5073.2	3033.5	2758.3	2810.1	2923.5	3078.9	3082.1
32.5°	10525.1	10295.2	9288.4	7219.6	4849.8	2923.5	2687.1	2651.5	2677.4	2797.2	2819.9
35°	11651.8	11353.9	9981.2	7449.5	4441.8	2709.8	2557.6	2437.8	2428.1	2486.4	2541.4
37.5°	12943.5	12587.4	10855.3	7744.1	3959.5	2486.4	2366.6	2246.8	2195.0	2224.2	2308.3
40°	14134.9	13739.9	11768.3	8100.2	3467.4	2285.7	2143.2	2020.2	1958.7	1968.4	2072.0
42.5°	15533.5	15125.6	12885.2	8566.4	3059.4	2149.7	1910.1	1783.9	1702.9	1748.2	1868.0
45°	17657.3	17194.4	14513.7	8971.1	2735.7	2117.3	1706.2	1528.1	1489.2	1566.9	1709.4
47.5°	20558.1	19991.6	16750.8	9217.2	2460.5	2146.5	1563.7	1320.9	1330.6	1418.0	1560.5
50°	23436.3	22824.4	19337.6	8893.4	2233.9	2088.2	1492.5	1159.0	1220.5	1298.2	1427.7
52.5°	25414.4	24617.9	20597.0	7957.8	2026.7	1868.0	1486.0	1006.9	1123.4	1149.3	1259.4
55°	25492.1	24511.1	19952.7	6274.3	1745.0	1576.7	1418.0	880.6	1016.6	1026.3	1120.2
57.5°	22345.2	21458.1	17437.2	4309.1	1550.8	1155.8	1129.9	770.5	835.3	916.2	974.5
60°	17000.1	16245.8	13040.6	1974.9	1178.4	734.9	773.8	663.7	624.8	744.6	802.9
62.5°	10411.8	9929.4	7821.8	874.1	751.1	391.7	469.4	527.7	469.4	514.8	563.3
65°	4134.3	3920.6	2968.8	372.3	307.6	197.5	213.7	307.6	330.2	362.6	407.9
67.5°	718.7	679.9	498.6	165.1	126.3	119.8	103.6	142.4	200.7	223.4	259.0
70°	93.9	90.6	80.9	68.0	64.7	58.3	45.3	90.6	136.0	142.4	165.1
72.5°	22.7	19.4	19.4	16.2	19.4	6.5	6.5	48.6	97.1	100.4	116.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	61.5	68.0	80.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9
2.5°	3765.2	3700.5	3677.8	3645.4	3603.3	3616.3	3558.0	3538.6	3567.7	3606.6	3596.9
5°	3422.0	3350.8	3302.2	3227.8	3214.8	3185.7	3166.3	3140.4	3172.7	3218.1	3227.8
7.5°	3150.1	3088.6	3040.0	3017.3	3001.2	2988.2	2949.4	2929.9	2929.9	2949.4	2965.5
10°	3033.5	2988.2	2978.5	2985.0	3010.9	3007.6	2972.0	2946.1	2913.7	2897.6	2917.0
12.5°	3195.4	3120.9	3108.0	3111.2	3143.6	3140.4	3101.5	3069.1	3062.7	3069.1	3130.7
15°	3470.6	3357.3	3273.1	3256.9	3273.1	3266.6	3237.5	3218.1	3227.8	3321.7	3425.3
17.5°	3716.6	3541.8	3389.7	3331.4	3328.1	3318.4	3289.3	3282.8	3331.4	3506.2	3658.4
20°	3787.9	3616.3	3399.4	3324.9	3308.7	3299.0	3266.6	3276.3	3337.9	3548.3	3677.8
22.5°	3694.0	3528.9	3302.2	3227.8	3214.8	3211.6	3179.2	3192.2	3244.0	3428.5	3535.3
25°	3515.9	3376.7	3140.4	3075.6	3075.6	3069.1	3040.0	3046.5	3078.9	3240.7	3344.3
27.5°	3299.0	3166.3	2968.8	2904.0	2913.7	2923.5	2887.8	2878.1	2904.0	3056.2	3117.7
30°	3049.7	2955.8	2800.4	2742.2	2738.9	2777.8	2729.2	2716.3	2751.9	2871.7	2884.6
32.5°	2806.9	2761.6	2651.5	2606.2	2609.4	2615.9	2590.0	2590.0	2622.4	2687.1	2683.9
35°	2570.6	2541.4	2522.0	2489.6	2486.4	2473.4	2473.4	2479.9	2515.5	2538.2	2496.1
37.5°	2343.9	2373.1	2395.7	2363.4	2337.5	2337.5	2337.5	2366.6	2399.0	2389.3	2318.0
40°	2143.2	2204.7	2276.0	2240.3	2178.8	2175.6	2188.5	2237.1	2285.7	2227.4	2162.6
42.5°	1971.6	2049.3	2149.7	2130.3	2062.3	2052.6	2062.3	2123.8	2162.6	2088.2	2017.0
45°	1803.3	1900.4	2020.2	2020.2	1945.7	1936.0	1939.3	2020.2	2042.9	1955.4	1864.8
47.5°	1660.8	1767.7	1893.9	1893.9	1832.4	1813.0	1829.2	1913.4	1929.5	1806.5	1722.3
50°	1524.9	1641.4	1780.6	1770.9	1728.8	1712.6	1741.8	1832.4	1813.0	1677.0	1589.6
52.5°	1353.3	1476.3	1667.3	1677.0	1654.4	1657.6	1693.2	1751.5	1696.4	1531.3	1456.9
55°	1197.9	1324.1	1515.1	1566.9	1566.9	1563.7	1579.9	1625.2	1579.9	1382.4	1291.8
57.5°	1029.5	1136.4	1295.0	1307.9	1317.7	1282.0	1304.7	1366.2	1343.6	1175.2	1123.4
60°	845.0	935.6	1026.3	1036.0	993.9	919.4	961.5	1032.8	1048.9	922.7	864.4
62.5°	598.9	686.3	793.2	793.2	751.1	676.6	731.7	793.2	770.5	641.0	605.4
65°	446.8	527.7	608.6	644.3	608.6	556.8	598.9	644.3	608.6	501.8	450.0
67.5°	288.1	343.2	391.7	420.9	427.3	420.9	440.3	427.3	385.3	314.0	284.9
70°	174.8	204.0	229.9	255.8	275.2	284.9	294.6	265.5	223.4	184.5	174.8
72.5°	126.3	152.2	174.8	194.2	216.9	223.4	223.4	204.0	165.1	129.5	119.8
75°	87.4	110.1	129.5	142.4	161.9	168.3	168.3	152.2	123.0	93.9	84.2
77.5°	3.2	22.7	22.7	19.4	25.9	32.4	32.4	38.8	35.6	25.9	22.7
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°	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9
2.5°	3616.3	3732.8	3765.2	3885.0	3991.8	4098.7	4228.2	4305.9	4422.4	4503.4	4548.7
5°	3260.2	3357.3	3473.8	3651.9	3836.4	4040.4	4286.4	4500.1	4768.8	4966.3	5031.1
7.5°	3001.2	3127.4	3263.4	3486.8	3739.3	4011.3	4357.7	4707.3	5118.5	5387.2	5558.8
10°	2952.6	3082.1	3263.4	3483.5	3749.0	4059.8	4483.9	4937.2	5451.9	5778.9	5973.2
12.5°	3185.7	3324.9	3402.6	3503.0	3703.7	4050.1	4594.0	5170.3	5775.7	6131.8	6339.0
15°	3528.9	3651.9	3525.6	3399.4	3528.9	3946.5	4655.5	5364.5	6060.6	6471.8	6685.4
17.5°	3765.2	3774.9	3499.7	3231.0	3266.6	3758.7	4678.2	5558.8	6364.9	6795.5	7018.9
20°	3742.5	3664.8	3386.4	3088.6	2978.5	3515.9	4652.3	5730.4	6672.5	7122.5	7342.6
22.5°	3567.7	3477.1	3240.7	2949.4	2735.7	3227.8	4607.0	5885.8	6954.1	7465.7	7672.9
25°	3357.3	3260.2	3065.9	2810.1	2580.3	2949.4	4571.3	6099.4	7310.3	7912.4	8074.3
27.5°	3111.2	3027.1	2861.9	2677.4	2515.5	2738.9	4561.6	6381.1	7740.9	8456.3	8569.7
30°	2871.7	2794.0	2664.5	2557.6	2489.6	2615.9	4529.3	6682.2	8255.6	9081.2	9204.2
32.5°	2641.8	2564.1	2483.2	2467.0	2470.2	2570.6	4419.2	6980.0	8867.5	9987.7	10078.3
35°	2444.3	2353.7	2321.3	2360.1	2431.4	2492.9	4108.4	7226.1	9524.7	10975.1	11049.6
37.5°	2256.5	2165.9	2162.6	2256.5	2334.2	2373.1	3742.5	7468.9	10411.8	11978.7	12072.6
40°	2084.9	1994.3	2026.7	2140.0	2201.5	2220.9	3299.0	7838.0	11350.7	13037.4	12985.6
42.5°	1939.3	1845.4	1864.8	2010.5	2065.5	2117.3	2891.1	8145.5	12253.9	14041.0	14024.8
45°	1796.8	1725.6	1712.6	1871.3	1919.8	2127.0	2593.2	8381.9	13416.2	15319.8	15345.7
47.5°	1657.6	1602.6	1605.8	1673.8	1793.6	2175.6	2340.7	8537.3	15102.9	17346.5	16896.5
50°	1531.3	1489.2	1524.9	1447.2	1712.6	2114.1	2123.8	8504.9	16987.2	19289.0	18385.8
52.5°	1392.1	1382.4	1398.6	1210.8	1583.1	1864.8	1919.8	8074.3	17871.0	20616.4	20101.6
55°	1249.7	1246.4	1116.9	968.0	1324.1	1489.2	1644.6	6737.2	17841.9	21322.2	21947.0
57.5°	1081.3	1055.4	848.2	789.9	1029.5	1036.0	1499.0	4412.7	15811.9	19632.2	20927.2
60°	819.1	799.7	621.6	641.0	718.7	663.7	1194.6	2198.3	11816.9	15293.9	16754.1
62.5°	566.6	540.7	463.0	495.3	463.0	378.8	731.7	1087.8	7158.1	9657.5	10981.6
65°	414.4	385.3	317.3	271.9	216.9	216.9	278.4	417.6	2771.3	4105.1	4950.1
67.5°	255.8	242.8	187.8	136.0	132.7	142.4	145.7	207.2	446.8	712.2	870.9
70°	165.1	152.2	126.3	87.4	80.9	84.2	87.4	97.1	113.3	123.0	148.9
72.5°	113.3	106.8	90.6	48.6	38.8	42.1	45.3	45.3	55.0	51.8	61.5
75°	80.9	74.5	64.7	22.7	12.9	16.2	19.4	16.2	19.4	12.9	16.2
77.5°	22.7	22.7	16.2	3.2	0.0	3.2	6.5	6.5	3.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	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: P643319

CATALOG NUMBER: GWS-SA6E-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9
2.5°	4665.2	4739.7	4768.8	4726.7	4762.4	4704.1	4681.4	4594.0	4587.5	4571.3
5°	5293.3	5461.7	5562.0	5623.5	5552.3	5474.6	5358.1	5157.3	5095.8	5057.0
7.5°	5911.7	6173.9	6345.5	6426.4	6407.0	6248.4	6037.9	5701.2	5581.4	5523.2
10°	6449.1	6769.6	6976.8	7077.2	7035.1	6895.9	6594.8	6173.9	6015.3	5979.7
12.5°	6824.6	7119.3	7261.7	7349.1	7352.4	7297.3	7012.4	6588.3	6400.5	6355.2
15°	7061.0	7187.2	7190.5	7242.3	7332.9	7456.0	7323.2	6947.7	6746.9	6679.0
17.5°	7209.9	7070.7	6928.2	6941.2	7090.1	7417.1	7553.1	7264.9	7051.3	6976.8
20°	7316.7	6876.4	6611.0	6614.2	6766.4	7261.7	7711.7	7572.5	7352.4	7284.4
22.5°	7384.7	6704.9	6326.1	6316.4	6478.2	7077.2	7857.4	7938.3	7721.4	7643.7
25°	7523.9	6623.9	6154.5	6209.5	6352.0	7018.9	8054.9	8424.0	8223.2	8119.6
27.5°	7773.2	6704.9	6138.3	6264.6	6426.4	7190.5	8398.1	9071.5	8864.3	8747.7
30°	8203.8	7009.2	6387.6	6562.4	6756.7	7640.5	8974.3	9974.7	9676.9	9566.8
32.5°	8896.6	7640.5	7158.1	7533.7	7721.4	8378.6	9838.8	10988.1	10745.3	10525.1
35°	9851.7	9081.2	9026.1	9900.3	9854.9	9777.2	10900.7	12231.3	11865.4	11651.8
37.5°	11166.1	11399.2	11807.2	12674.8	12645.7	12053.2	12296.0	13406.5	13218.7	12943.5
40°	12807.5	13302.9	13995.7	15238.9	14850.4	14105.8	14008.7	14610.8	14458.7	14134.9
42.5°	13775.6	14630.3	15951.2	17068.1	16757.3	15455.8	15345.7	16219.9	15886.4	15533.5
45°	14225.6	15711.6	18301.6	19813.5	18871.4	16352.6	16310.5	18317.8	18130.0	17657.3
47.5°	14432.8	16802.6	21053.5	23342.4	21581.2	17139.3	16987.2	21361.0	21115.0	20558.1
50°	14662.6	18308.1	24368.7	27431.3	24854.3	18029.6	18139.7	24197.1	24093.5	23436.3
52.5°	15167.7	19900.9	28451.1	32106.3	28823.5	19425.0	20117.8	26871.2	26171.9	25414.4
55°	15925.3	21636.2	32698.7	36881.6	32873.6	21299.5	22257.8	28292.5	26330.6	25492.1
57.5°	15086.7	22070.0	35214.3	40216.2	34670.4	21306.0	20448.0	25828.8	23157.8	22345.2
60°	11972.3	20532.2	34246.3	39494.2	33139.0	18919.9	15656.5	20166.4	17544.0	17000.1
62.5°	8093.7	17220.3	30147.6	33401.3	28363.7	14882.8	10175.5	13115.1	10861.8	10411.8
65°	4435.4	12846.4	24358.9	25268.7	22199.5	10395.6	5235.0	5691.5	4335.0	4134.3
67.5°	1223.8	8942.0	17922.8	16763.8	15575.6	6769.6	1353.3	1016.6	725.2	718.7
70°	307.6	5914.9	10738.8	11069.0	9550.6	4335.0	259.0	123.0	97.1	93.9
72.5°	129.5	2544.7	5095.8	5856.6	4888.6	2007.2	93.9	35.6	29.1	22.7
75°	16.2	204.0	433.8	657.2	450.0	216.9	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)