

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: P636886

Luminaire Tested: GWS-SA4B-760-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-760-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

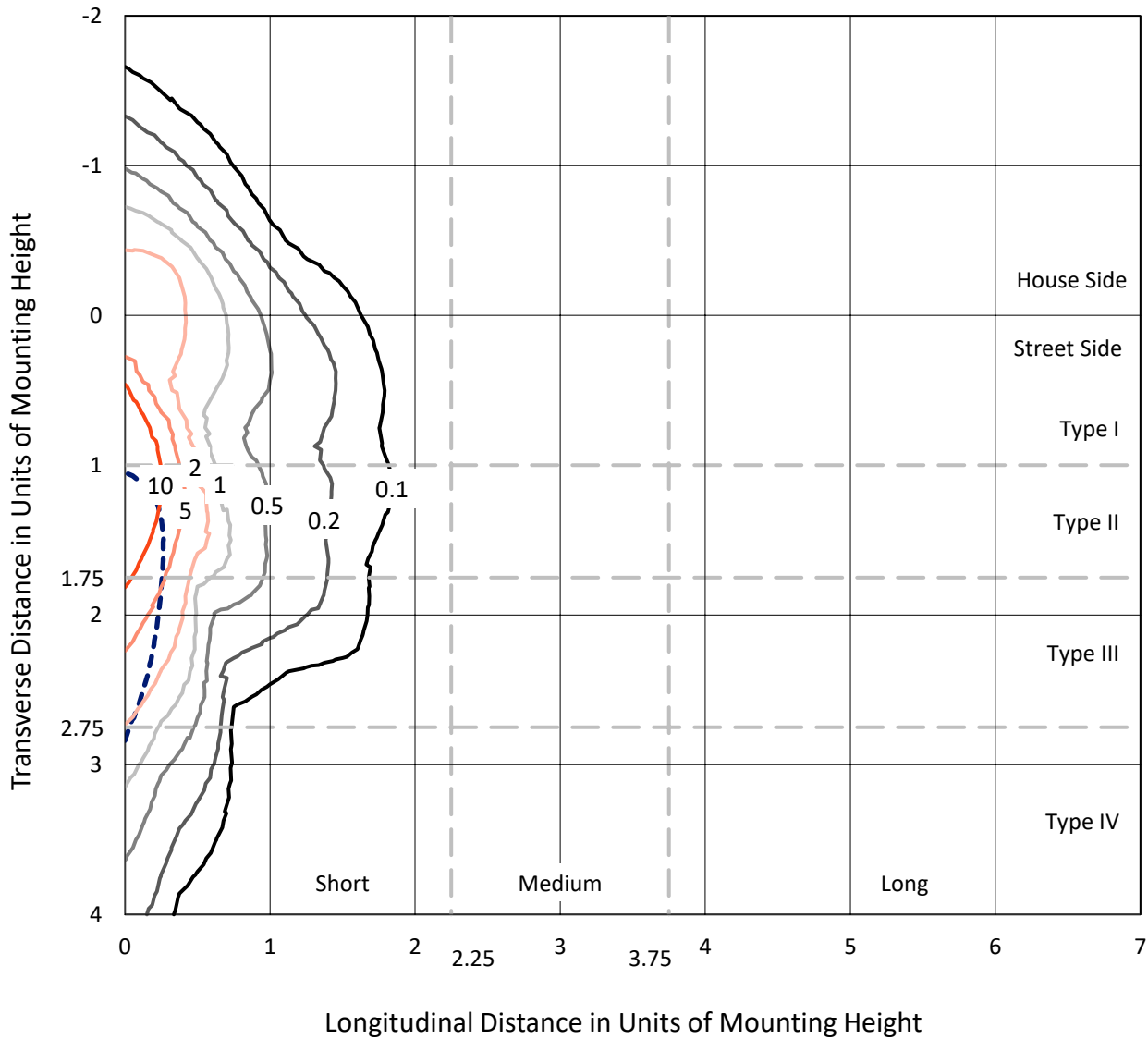
Lumens per Lamp: N/A  
Luminaire Lumens: 8841.7 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P636886  
 CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

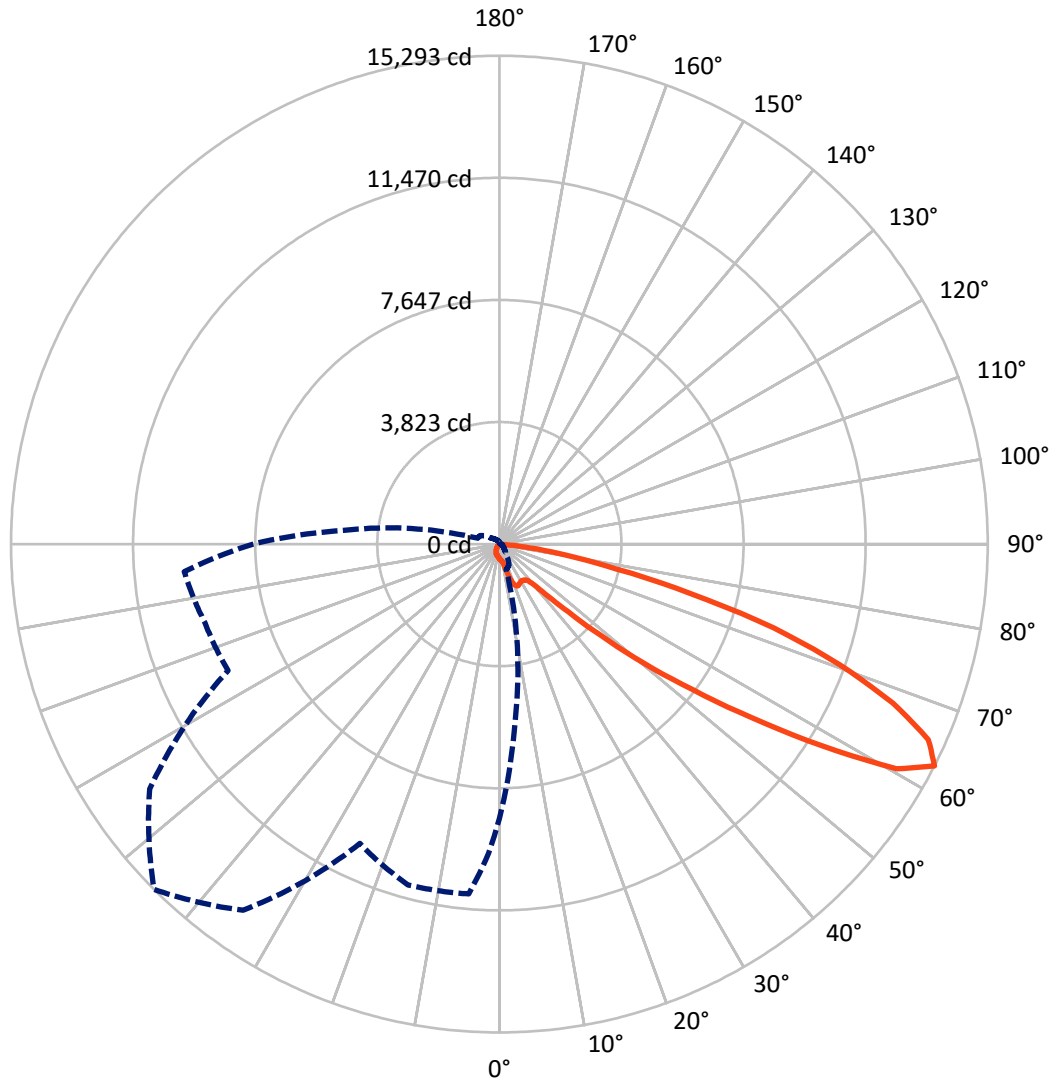
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P636886  
CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P636886  
 CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1027.3	0.0	1027.3
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	7814.4	0.0	7814.4
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	8841.7	0.0	8841.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	0.4
10°-20°	135.7	1.5
20°-30°	306.6	3.5
30°-40°	528.2	6.0
40°-50°	996.4	11.3
50°-60°	2224.6	25.2
60°-70°	2975.4	33.7
70°-80°	1492.1	16.9
80°-90°	143.0	1.6
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°	8841.7	100.0
0°-180°	8841.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P636886

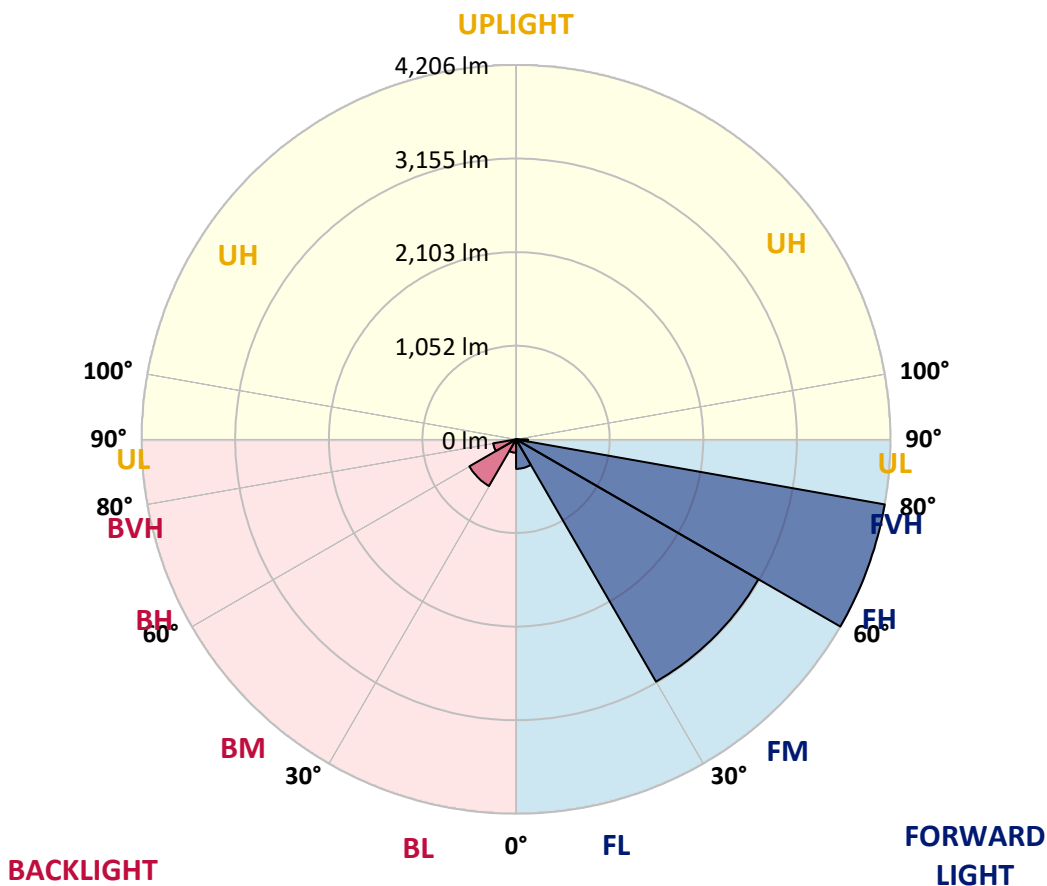
CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.1	3.7			
FM (30°-60°)	3143.5	35.6			
FH (60°-80°)	4206.3	47.6			G2/5000
FVH (80°-90°)	133.5	1.5			G2/225
BL (0°-30°)	150.8	1.7	B1/500		
BM (30°-60°)	605.8	6.9	B1/1000		
BH (60°-80°)	261.2	3.0	B1/500		G1/500
BVH (80°-90°)	9.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





REPORT NUMBER: P636886

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	453.3	452.3	450.2	443.9	438.7	435.5	429.2	429.2	428.2	426.1	421.9
5°	438.7	434.5	430.3	418.8	406.2	398.9	390.5	389.4	389.4	387.4	386.3
7.5°	415.6	411.4	406.2	387.4	375.8	368.5	361.2	360.1	357.0	357.0	357.0
10°	403.1	396.8	388.4	367.5	355.9	349.7	344.4	341.3	339.2	336.1	335.0
12.5°	430.3	418.8	401.0	363.3	347.6	339.2	332.9	330.8	324.5	320.4	317.2
15°	515.1	486.8	451.2	372.7	344.4	331.9	323.5	319.3	314.1	306.7	301.5
17.5°	654.3	613.5	553.8	403.1	341.3	325.6	315.1	307.8	300.5	292.1	285.8
20°	846.9	786.2	715.0	458.5	341.3	318.3	305.7	296.3	285.8	276.4	269.1
22.5°	1091.9	1031.2	909.8	552.8	345.5	308.8	294.2	281.6	269.1	260.7	252.3
25°	1366.2	1280.4	1167.3	666.9	357.0	296.3	280.6	268.0	256.5	246.0	236.6
27.5°	1671.9	1578.7	1428.0	829.1	382.1	283.7	265.9	254.4	243.9	233.5	220.9
30°	1953.5	1898.0	1744.1	1023.9	422.9	275.3	254.4	243.9	233.5	219.8	208.3
32.5°	2291.7	2193.3	2066.6	1245.8	477.4	267.0	245.0	230.3	221.9	209.4	196.8
35°	2631.9	2548.2	2381.7	1519.1	538.1	258.6	233.5	219.8	212.5	197.9	184.3
37.5°	2982.6	2963.8	2799.4	1821.6	597.8	249.2	219.8	211.5	204.1	187.4	171.7
40°	3328.1	3293.6	3141.8	2167.1	634.4	238.7	208.3	203.1	194.7	175.9	158.1
42.5°	3658.9	3632.8	3485.1	2497.9	629.2	229.3	196.8	190.5	184.3	165.4	143.4
45°	4065.1	4022.2	3835.9	2742.9	575.8	239.7	185.3	174.8	173.8	156.0	128.8
47.5°	4825.2	4683.8	4367.7	2931.3	522.4	267.0	172.7	160.2	167.5	146.6	114.1
50°	5889.9	5723.4	5265.9	3077.9	521.4	302.6	170.6	146.6	162.3	139.2	101.5
52.5°	6959.8	6666.7	6110.8	3156.4	560.1	328.7	189.5	133.0	156.0	131.9	92.1
55°	7984.7	7376.5	6464.6	2896.8	590.5	357.0	224.0	125.6	144.5	123.5	86.9
57.5°	8961.5	7947.0	6618.5	2291.7	692.0	368.5	245.0	128.8	127.7	113.1	82.7
60°	9095.5	7919.8	6307.6	1332.7	763.2	348.6	236.6	143.4	112.0	100.5	75.4
62.5°	8588.8	7393.2	5598.8	831.2	708.8	341.3	210.4	163.3	101.5	89.0	66.0
65°	7819.3	6567.2	4668.1	536.0	537.1	379.0	184.3	160.2	95.3	78.5	56.5
67.5°	6616.4	5496.2	3677.8	359.1	303.6	323.5	161.2	109.9	93.2	67.0	44.0
70°	4829.4	3912.3	2394.3	239.7	181.1	258.6	135.1	78.5	87.9	55.5	31.4
72.5°	3530.2	2628.8	1336.9	157.0	102.6	150.8	99.5	56.5	68.0	40.8	22.0
75°	2540.8	1809.0	763.2	100.5	68.0	82.7	64.9	38.7	44.0	32.5	19.9
77.5°	1222.8	881.5	346.5	55.5	46.1	41.9	34.5	24.1	27.2	29.3	17.8
80°	46.1	34.5	26.2	27.2	29.3	18.8	15.7	12.6	15.7	19.9	9.4
82.5°	0.0	0.0	0.0	3.1	4.2	5.2	6.3	5.2	6.3	7.3	1.0
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: P636886

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	425.0	422.9	425.0	427.1	429.2	431.3	428.2	430.3	432.4	427.1	429.2
5°	391.5	390.5	396.8	399.9	404.1	406.2	404.1	404.1	403.1	396.8	396.8
7.5°	362.2	363.3	368.5	375.8	381.1	384.2	382.1	381.1	377.9	368.5	368.5
10°	340.2	340.2	348.6	354.9	362.2	365.4	363.3	360.1	357.0	347.6	346.5
12.5°	322.4	322.4	328.7	339.2	347.6	351.8	350.7	346.5	341.3	331.9	330.8
15°	305.7	304.6	314.1	323.5	335.0	340.2	338.1	335.0	325.6	317.2	315.1
17.5°	288.9	287.9	296.3	308.8	321.4	328.7	327.7	320.4	312.0	301.5	299.4
20°	272.2	270.1	280.6	293.1	305.7	313.0	310.9	304.6	294.2	283.7	281.6
22.5°	255.4	254.4	261.7	272.2	283.7	290.0	288.9	283.7	273.2	263.8	263.8
25°	236.6	236.6	241.8	249.2	257.5	260.7	261.7	259.6	253.4	248.1	248.1
27.5°	220.9	217.8	219.8	221.9	226.1	231.4	231.4	233.5	234.5	232.4	233.5
30°	208.3	203.1	200.0	195.8	193.7	195.8	197.9	205.2	212.5	216.7	218.8
32.5°	193.7	187.4	179.0	167.5	160.2	158.1	164.4	178.0	191.6	201.0	206.2
35°	179.0	170.6	154.9	138.2	128.8	125.6	133.0	148.7	168.6	185.3	192.6
37.5°	164.4	152.8	130.9	111.0	100.5	98.4	105.7	122.5	145.5	168.6	178.0
40°	147.6	134.0	107.8	86.9	78.5	76.4	82.7	99.5	123.5	149.7	164.4
42.5°	130.9	114.1	86.9	69.1	60.7	60.7	69.1	81.7	103.6	131.9	149.7
45°	114.1	96.3	71.2	55.5	50.3	51.3	56.5	69.1	86.9	116.2	133.0
47.5°	98.4	82.7	58.6	46.1	41.9	42.9	49.2	59.7	74.3	100.5	118.3
50°	84.8	70.1	51.3	38.7	35.6	37.7	44.0	53.4	66.0	89.0	103.6
52.5°	76.4	62.8	47.1	33.5	31.4	33.5	39.8	48.2	59.7	78.5	93.2
55°	72.2	61.8	47.1	30.4	27.2	29.3	35.6	44.0	53.4	71.2	83.8
57.5°	71.2	63.9	50.3	27.2	23.0	25.1	31.4	39.8	49.2	64.9	75.4
60°	67.0	60.7	49.2	22.0	17.8	20.9	26.2	34.5	45.0	60.7	70.1
62.5°	58.6	53.4	42.9	17.8	13.6	15.7	22.0	30.4	40.8	55.5	66.0
65°	48.2	42.9	33.5	11.5	8.4	10.5	16.8	26.2	35.6	50.3	59.7
67.5°	35.6	30.4	23.0	7.3	4.2	7.3	13.6	22.0	32.5	45.0	54.4
70°	22.0	17.8	12.6	4.2	3.1	6.3	12.6	20.9	29.3	41.9	51.3
72.5°	12.6	8.4	5.2	2.1	3.1	6.3	12.6	20.9	28.3	39.8	48.2
75°	9.4	5.2	2.1	1.0	2.1	5.2	11.5	18.8	27.2	37.7	46.1
77.5°	6.3	3.1	1.0	0.0	1.0	4.2	10.5	17.8	25.1	35.6	44.0
80°	1.0	0.0	0.0	0.0	0.0	3.1	9.4	15.7	23.0	31.4	38.7
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	7.3	13.6	19.9	26.2	31.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.5	15.7	19.9	22.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.5	12.6	14.7
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: P636886  
 CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	428.2	434.5	434.5	438.7	443.9	453.3	458.5	465.9	471.1	476.3	478.4
5°	395.7	396.8	397.8	399.9	406.2	416.7	426.1	437.6	451.2	461.7	468.0
7.5°	368.5	368.5	368.5	371.7	377.9	385.3	394.7	410.4	426.1	438.7	449.1
10°	345.5	348.6	349.7	354.9	362.2	371.7	382.1	395.7	413.5	430.3	449.1
12.5°	330.8	334.0	339.2	344.4	351.8	362.2	373.7	391.5	428.2	462.7	502.5
15°	317.2	321.4	327.7	335.0	343.4	354.9	367.5	404.1	490.0	554.9	617.7
17.5°	302.6	308.8	317.2	324.5	335.0	347.6	363.3	434.5	603.0	710.8	817.6
20°	283.7	292.1	301.5	313.0	325.6	340.2	363.3	497.3	766.3	921.3	1062.6
22.5°	265.9	274.3	285.8	300.5	315.1	329.8	368.5	592.5	976.8	1172.5	1351.6
25°	251.3	261.7	273.2	285.8	302.6	319.3	381.1	726.6	1230.1	1482.4	1609.1
27.5°	237.6	250.2	261.7	272.2	286.9	305.7	409.3	905.6	1529.5	1786.0	1885.5
30°	224.0	238.7	250.2	260.7	275.3	295.2	452.3	1133.8	1862.4	2111.6	2122.1
32.5°	212.5	226.1	239.7	250.2	263.8	286.9	511.9	1400.8	2203.7	2444.5	2346.1
35°	200.0	215.7	228.2	239.7	254.4	279.5	581.0	1688.7	2548.2	2750.2	2569.1
37.5°	187.4	205.2	220.9	229.3	243.9	272.2	631.3	1989.1	2899.9	3048.6	2764.9
40°	175.9	195.8	213.6	221.9	229.3	262.8	638.6	2296.9	3256.9	3342.8	2949.1
42.5°	163.3	185.3	201.0	212.5	218.8	256.5	594.6	2556.5	3556.3	3635.9	3189.9
45°	149.7	175.9	188.4	196.8	209.4	260.7	538.1	2757.5	3898.7	4035.8	3586.7
47.5°	136.1	165.4	175.9	182.2	198.9	285.8	517.2	2891.5	4462.9	4747.7	4255.7
50°	123.5	156.0	167.5	166.5	196.8	318.3	540.2	2993.1	5310.9	5645.9	5172.7
52.5°	109.9	145.5	159.1	154.9	212.5	343.4	586.3	3073.7	5963.2	6699.1	6404.9
55°	98.4	134.0	146.6	145.5	241.8	362.2	621.9	2648.7	6233.3	7678.0	7793.1
57.5°	90.0	121.4	131.9	149.7	260.7	362.2	719.2	1880.2	6238.5	8398.3	9635.7
60°	82.7	109.9	117.3	164.4	253.4	343.4	711.9	1151.6	5749.6	8349.0	10615.6
62.5°	76.4	99.5	108.9	168.6	224.0	340.2	642.8	714.0	4903.7	7713.6	9904.7
65°	71.2	91.1	104.7	154.9	203.1	364.3	433.4	513.0	3977.2	6989.1	9089.2
67.5°	66.0	83.8	111.0	126.7	184.3	325.6	313.0	364.3	3121.9	6194.5	8340.7
70°	61.8	79.6	117.3	103.6	161.2	254.4	221.9	276.4	2390.1	5168.6	7286.4
72.5°	58.6	74.3	98.4	81.7	130.9	196.8	154.9	201.0	1562.0	4034.8	5940.1
75°	55.5	68.0	72.2	66.0	97.4	128.8	117.3	135.1	930.7	2949.1	4506.9
77.5°	54.4	63.9	58.6	53.4	66.0	76.4	89.0	91.1	454.4	1475.1	2361.8
80°	48.2	57.6	50.3	44.0	45.0	50.3	66.0	60.7	103.6	374.8	630.2
82.5°	37.7	45.0	41.9	36.6	36.6	36.6	44.0	40.8	33.5	168.6	284.8
85°	26.2	31.4	31.4	29.3	28.3	28.3	27.2	26.2	9.4	10.5	15.7
87.5°	17.8	22.0	23.0	22.0	18.8	16.8	14.7	12.6	4.2	0.0	2.1
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: P636886

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	485.8	488.9	488.9	484.7	481.6	473.2	464.8	456.4	454.4	453.3
5°	485.8	498.3	504.6	503.6	496.2	482.6	464.8	446.0	440.7	438.7
7.5°	478.4	502.5	521.4	524.5	510.9	486.8	454.4	426.1	418.8	415.6
10°	495.2	542.3	580.0	585.2	569.5	522.4	470.1	421.9	410.4	403.1
12.5°	585.2	662.7	708.8	730.7	700.4	640.7	553.8	468.0	441.8	430.3
15°	767.4	877.3	965.2	965.2	937.0	831.2	721.3	582.1	546.5	515.1
17.5°	1000.8	1139.0	1216.5	1208.1	1165.2	1090.9	959.0	759.0	686.8	654.3
20°	1266.8	1349.5	1367.3	1362.0	1343.2	1300.3	1209.2	994.6	897.2	846.9
22.5°	1497.1	1475.1	1448.9	1428.0	1422.7	1435.3	1422.7	1257.3	1180.9	1091.9
25°	1653.1	1528.5	1450.0	1412.3	1430.1	1502.3	1580.8	1519.1	1458.3	1366.2
27.5°	1737.9	1522.2	1409.1	1370.4	1400.8	1503.4	1674.0	1778.7	1715.9	1671.9
30°	1783.9	1517.0	1383.0	1345.3	1391.3	1520.1	1738.9	2021.6	2023.7	1953.5
32.5°	1849.9	1550.5	1388.2	1353.6	1415.4	1570.4	1820.6	2268.6	2329.4	2291.7
35°	1924.2	1601.8	1412.3	1380.9	1457.3	1637.4	1911.6	2517.8	2644.5	2631.9
37.5°	1994.3	1659.3	1468.8	1438.4	1521.1	1694.9	1999.6	2762.8	2938.7	2982.6
40°	2067.6	1740.0	1642.6	1671.9	1718.0	1786.0	2078.1	2975.3	3262.1	3328.1
42.5°	2240.4	2019.5	2168.1	2223.6	2229.9	2089.6	2249.8	3247.5	3580.4	3658.9
45°	2625.6	2516.8	2942.8	3021.4	2980.5	2555.5	2663.3	3640.1	4025.3	4065.1
47.5°	3112.4	3162.7	4003.4	4274.5	4029.5	3105.1	3164.8	4466.1	4839.8	4825.2
50°	3679.9	3917.5	5207.3	5847.0	5260.7	3819.1	3742.7	5481.6	5934.9	5889.9
52.5°	4350.9	4794.8	6654.1	7562.8	7008.0	4622.1	4590.7	6826.9	7103.2	6959.8
55°	5195.8	5641.8	8318.7	9588.6	8799.2	5602.0	5709.8	8386.7	8440.1	7984.7
57.5°	6456.2	6746.2	10280.6	11911.7	10669.0	6933.6	7715.7	10462.7	9824.1	8961.5
60°	8744.8	8166.9	12176.5	14288.1	12658.1	8806.5	10361.2	11692.9	10284.8	9095.5
62.5°	9541.5	9372.9	13363.7	15293.2	13996.0	10344.4	11049.0	10995.6	9688.0	8588.8
65°	8334.4	9072.5	13151.2	14762.4	13824.3	10091.1	9915.2	10226.1	9015.9	7819.3
67.5°	7698.9	8366.8	12346.1	13297.8	12872.7	9231.6	8838.0	8753.2	7569.1	6616.4
70°	7058.2	7719.9	11178.8	11297.1	11099.3	7830.8	7313.7	6745.2	5657.5	4829.4
72.5°	6287.7	6652.0	9559.3	8998.1	8774.1	6150.6	6041.7	5079.6	4241.0	3530.2
75°	5483.7	5377.9	7452.9	6175.7	6343.2	4785.4	5102.6	3730.1	3107.2	2540.8
77.5°	3988.7	3910.2	4991.6	3751.1	4154.1	3134.4	2816.2	1488.7	1417.5	1222.8
80°	2225.7	2683.2	2695.8	2102.2	2622.5	2043.6	704.6	49.2	31.4	46.1
82.5°	1034.3	1153.7	1461.5	974.7	1496.0	1012.4	145.5	0.0	0.0	0.0
85°	335.0	490.0	410.4	143.4	362.2	342.3	24.1	0.0	0.0	0.0
87.5°	19.9	40.8	10.5	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

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