

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: P631610

Luminaire Tested: GWS-SA2B-722-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-722-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

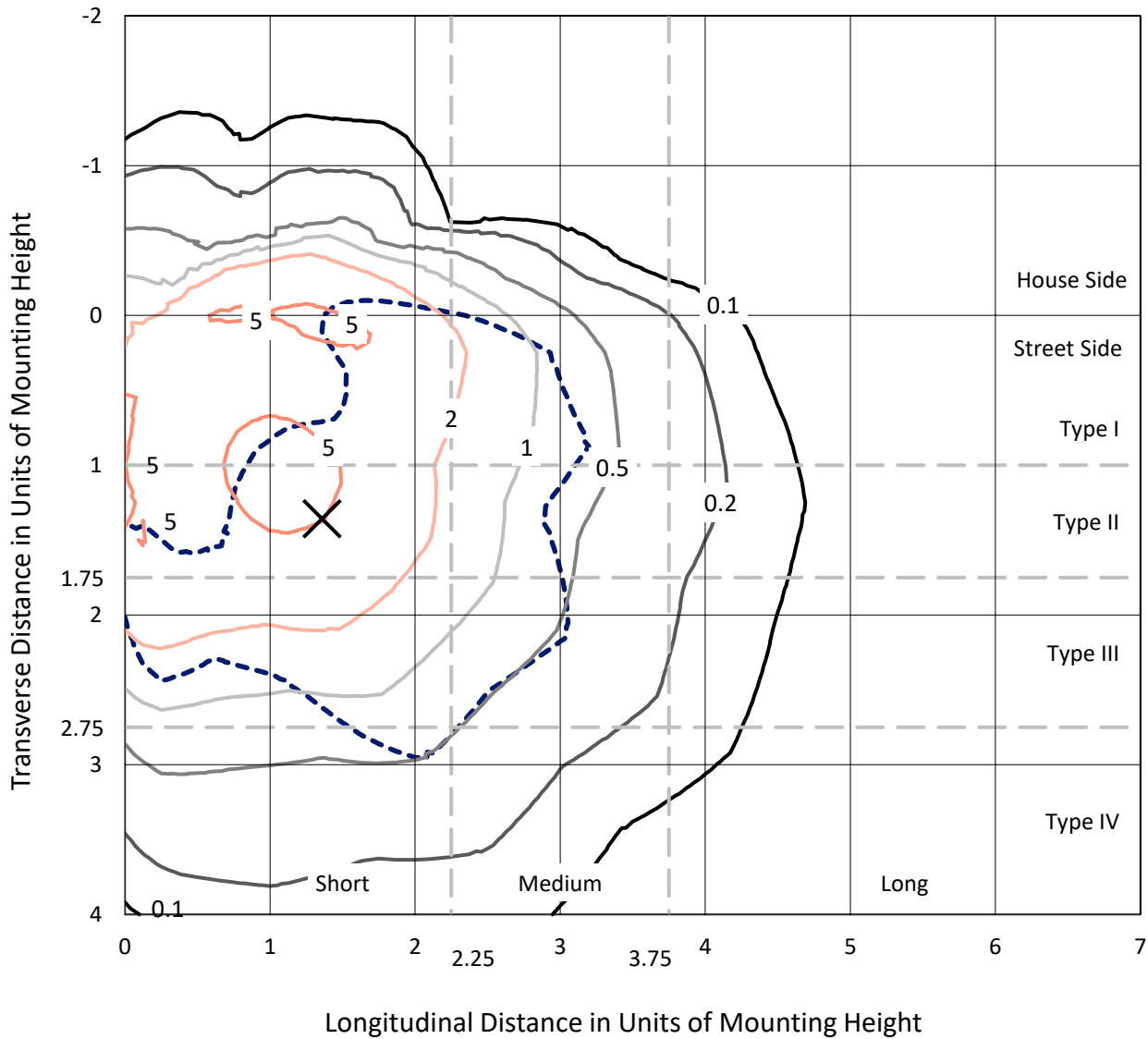
Lumens per Lamp: N/A  
Luminaire Lumens: 3154.7 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P631610  
 CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

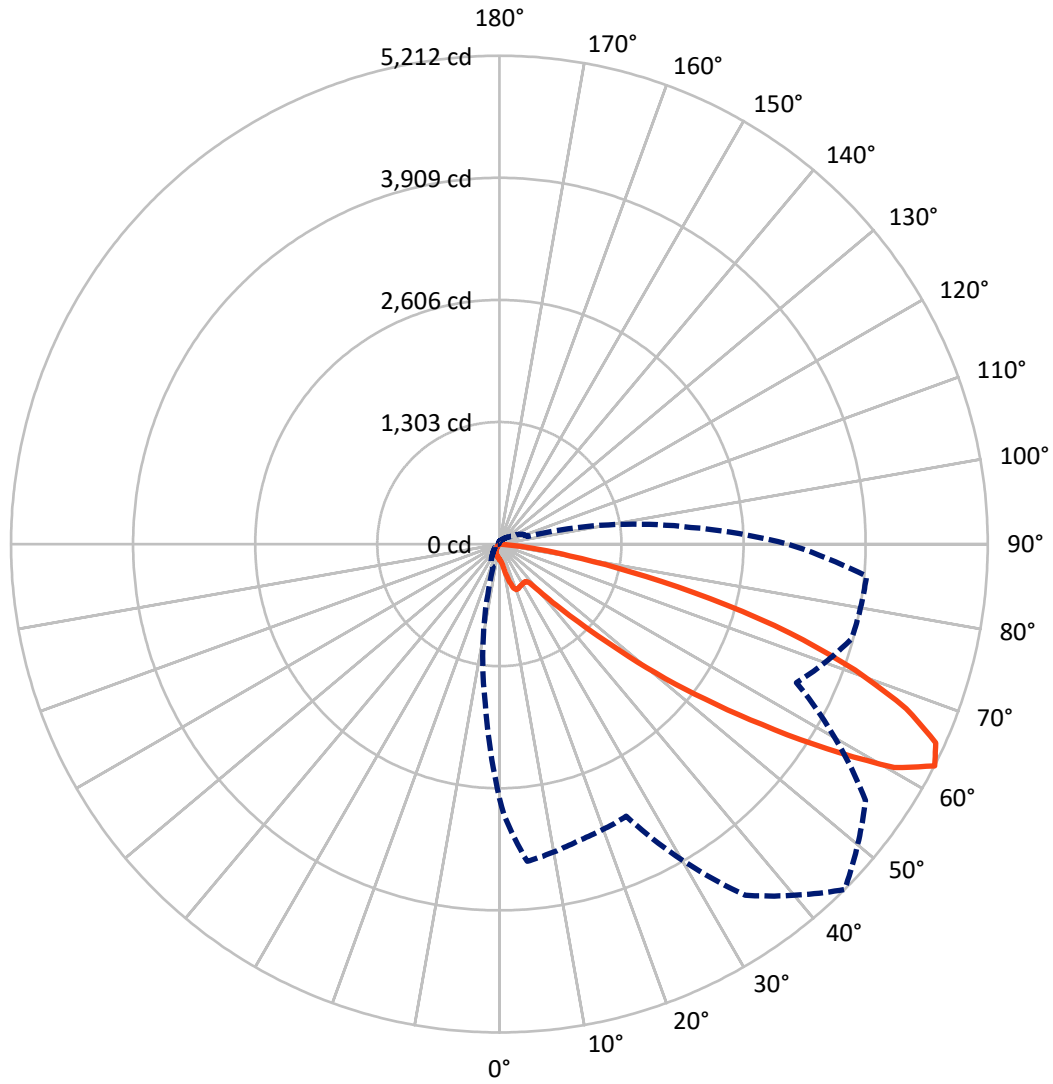
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P631610  
CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P631610  
 CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	389.3	0.0	389.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	2765.4	0.0	2765.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	3154.7	0.0	3154.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.5	0.5
10°-20°	55.0	1.7
20°-30°	119.6	3.8
30°-40°	196.2	6.2
40°-50°	360.8	11.4
50°-60°	774.7	24.6
60°-70°	1040.6	33.0
70°-80°	541.9	17.2
80°-90°	51.4	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°	3154.7	100.0
0°-180°	3154.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631610

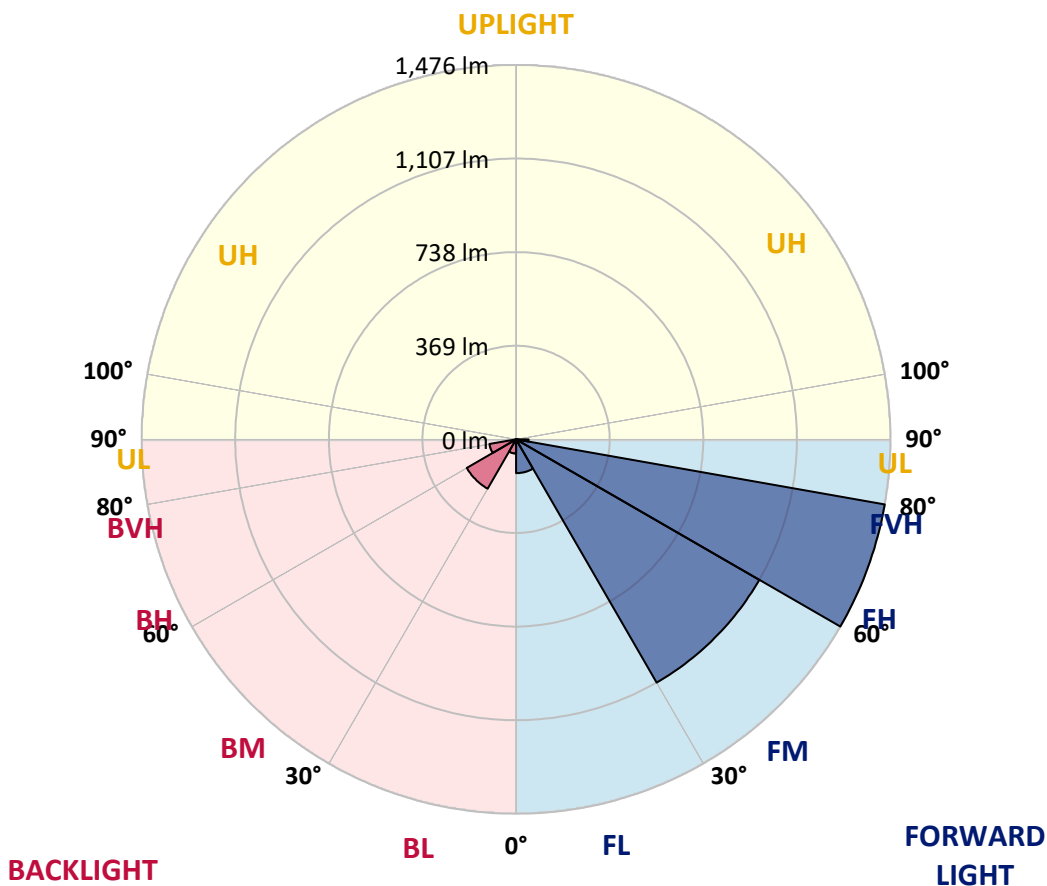
CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	133.3	4.2			
FM (30°-60°)	1107.3	35.1			
FH (60°-80°)	1475.8	46.8			G1/1800
FVH (80°-90°)	49.1	1.6			G1/100
BL (0°-30°)	55.8	1.8	B0/110		
BM (30°-60°)	224.5	7.1	B1/1000		
BH (60°-80°)	106.7	3.4	B0/110		G0/110
BVH (80°-90°)	2.3	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-G1**

Type IV Short





REPORT NUMBER: P631610  
 CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0
2.5°	167.3	168.0	168.7	171.3	173.1	174.5	174.9	173.8	171.3	168.7	165.1
5°	162.2	162.9	165.4	172.4	179.3	184.7	186.6	185.5	179.3	171.3	162.9
7.5°	161.8	163.2	169.4	184.0	199.0	210.3	213.2	210.6	199.0	182.9	165.8
10°	174.9	177.5	186.6	212.8	240.1	260.2	268.2	257.3	238.7	209.5	181.5
12.5°	209.2	213.5	231.0	269.3	311.6	338.2	349.1	335.6	306.5	264.2	219.7
15°	263.1	269.7	295.9	353.1	403.0	426.7	430.4	422.7	388.8	342.2	282.4
17.5°	339.3	348.7	389.5	447.8	483.9	492.3	491.2	483.2	458.4	426.3	369.9
20°	430.4	441.6	481.7	529.8	533.5	523.6	518.2	513.4	505.1	499.6	455.5
22.5°	522.2	536.0	577.9	590.0	557.2	528.7	515.3	518.9	531.3	558.3	540.4
25°	613.6	626.8	666.1	633.7	568.1	520.7	503.6	512.3	541.9	600.2	623.1
27.5°	720.4	730.3	753.6	663.6	569.9	514.2	497.4	510.9	547.0	626.4	713.9
30°	831.6	837.4	826.1	671.6	563.7	504.3	491.2	510.9	555.7	643.9	782.0
32.5°	913.2	914.3	877.5	672.3	560.4	496.3	485.4	508.7	564.1	658.5	848.0
35°	997.4	991.9	926.7	683.2	569.2	499.2	489.7	514.9	577.2	675.6	905.9
37.5°	1082.6	1072.8	981.7	701.1	591.8	530.9	525.1	546.6	598.3	699.3	969.7
40°	1170.1	1156.6	1038.9	728.1	642.1	638.8	658.8	656.3	656.3	729.5	1035.3
42.5°	1276.8	1261.2	1123.4	804.2	759.4	832.6	887.3	853.4	790.7	799.1	1120.5
45°	1417.9	1404.4	1269.9	950.0	943.4	1111.8	1185.4	1118.3	962.4	959.8	1263.0
47.5°	1643.4	1640.9	1503.5	1119.1	1168.6	1467.1	1609.2	1480.2	1158.1	1130.0	1532.7
50°	1960.5	1952.8	1794.7	1317.3	1436.5	1907.3	2160.9	1945.9	1394.5	1328.6	1893.8
52.5°	2317.6	2325.6	2202.4	1533.7	1721.0	2397.0	2750.1	2479.4	1651.4	1581.1	2348.2
55°	2653.9	2699.8	2667.4	1787.0	1999.1	2937.8	3397.3	3064.6	1969.6	1911.6	2857.6
57.5°	2917.0	3046.4	3273.7	2155.0	2325.9	3570.4	4119.9	3699.0	2340.9	2448.4	3551.0
60°	2931.6	3102.8	3630.8	2925.0	2746.5	4112.9	4841.4	4318.8	2924.6	3359.7	4094.4
62.5°	2711.8	2895.5	3398.4	3274.8	3204.5	4574.6	5211.6	4770.7	3498.9	3893.6	3933.3
65°	2460.4	2645.9	3138.9	2878.0	3151.3	4555.0	5117.6	4781.2	3551.0	3530.6	3645.1
67.5°	2080.3	2246.9	2693.3	2547.5	2904.6	4335.2	4683.2	4479.9	3271.6	3302.2	3353.2
70°	1518.4	1678.8	2093.1	2100.4	2536.6	3939.1	4024.0	3996.0	3012.8	3045.3	2899.5
72.5°	1096.8	1232.0	1589.5	1722.5	2025.0	3303.3	3244.6	3352.8	2585.0	2712.2	2328.9
75°	788.6	889.9	1166.1	1498.4	1605.2	2453.1	2322.7	2596.7	2074.1	2335.4	1750.9
77.5°	319.9	355.7	458.8	1009.4	1054.9	1650.4	1421.9	1886.1	1478.7	1534.5	848.7
80°	13.1	14.6	18.9	521.1	723.3	928.5	760.9	1008.3	976.6	618.0	200.4
82.5°	1.5	1.5	3.3	150.1	316.7	512.3	358.6	580.8	494.5	262.0	91.1
85°	0.4	0.4	0.7	17.1	74.3	82.0	48.5	178.2	229.9	107.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.3	3.6	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: P631610

CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0
2.5°	165.1	163.2	161.1	158.9	157.8	154.9	153.8	153.0	152.3	152.7	152.7
5°	159.6	155.6	150.9	146.1	143.6	140.7	139.2	138.5	138.8	140.3	140.3
7.5°	158.9	151.2	141.0	134.8	131.9	129.7	128.3	127.5	127.9	129.7	130.5
10°	170.9	157.4	139.2	128.6	125.4	123.2	121.7	120.6	119.9	121.3	121.7
12.5°	196.8	178.2	147.9	127.9	122.1	119.2	118.1	115.9	114.8	115.5	115.9
15°	250.3	218.3	165.4	130.8	119.2	115.9	114.1	112.2	110.4	110.0	110.4
17.5°	320.3	274.4	192.0	137.7	117.0	113.0	110.4	107.9	105.3	104.9	104.6
20°	407.0	343.3	229.2	148.7	115.1	110.4	106.8	103.1	99.8	98.8	98.8
22.5°	486.1	426.3	276.9	162.2	112.6	106.8	102.4	98.0	94.4	92.6	92.2
25°	582.7	514.5	334.2	177.8	109.0	102.0	97.3	92.9	89.3	87.1	86.4
27.5°	680.0	607.4	399.0	198.2	104.6	97.3	92.9	88.9	84.9	82.4	81.6
30°	774.3	707.7	471.9	223.7	101.3	92.6	88.9	84.9	81.3	77.3	76.2
32.5°	875.6	810.1	553.5	252.2	98.8	89.3	85.3	81.6	76.9	73.2	71.4
35°	973.3	915.7	643.5	279.9	96.2	86.4	82.0	78.3	73.2	69.2	66.7
37.5°	1071.7	1023.2	737.5	296.6	92.6	82.4	78.3	75.4	69.6	64.9	61.9
40°	1175.9	1134.4	839.2	289.7	89.3	78.0	75.8	72.5	66.0	60.5	56.8
42.5°	1290.3	1240.4	942.7	263.1	86.4	74.3	72.2	68.9	62.7	56.1	51.4
45°	1434.3	1356.6	1027.6	223.0	87.8	70.7	66.3	65.6	59.8	51.4	45.5
47.5°	1681.7	1535.2	1093.6	197.1	97.7	66.7	61.6	63.4	57.2	46.6	40.1
50°	2060.3	1831.1	1155.1	195.3	112.6	64.9	57.2	61.9	54.7	41.9	35.3
52.5°	2421.0	2131.7	1194.5	211.3	125.7	69.6	52.8	60.1	52.8	38.6	32.1
55°	2766.1	2305.2	1124.2	223.0	138.1	83.8	49.6	57.2	50.7	36.8	31.0
57.5°	3138.2	2382.4	885.1	246.7	146.9	95.8	50.3	52.8	47.7	35.7	30.6
60°	3249.3	2283.7	534.2	277.7	142.1	99.5	55.8	47.0	43.7	33.5	29.5
62.5°	3076.6	2049.4	315.2	252.9	138.1	94.0	63.8	43.4	39.7	30.6	27.3
65°	2818.2	1731.2	205.5	213.5	146.5	83.8	67.8	41.5	36.1	27.7	24.1
67.5°	2523.1	1394.5	143.9	126.1	135.2	75.4	57.2	41.2	32.4	23.3	19.7
70°	2125.2	1044.4	101.3	83.4	112.6	67.0	44.5	40.1	28.4	18.9	15.3
72.5°	1642.0	653.7	75.4	53.9	80.2	54.7	35.3	33.9	23.0	15.7	11.7
75°	1210.9	372.8	53.2	39.0	52.8	41.5	26.2	24.1	19.7	14.9	10.6
77.5°	632.2	186.6	33.2	29.9	30.2	25.9	18.9	17.5	18.2	14.9	9.8
80°	121.3	37.2	20.0	21.9	16.4	16.4	13.8	14.6	16.0	12.0	8.4
82.5°	50.7	8.0	10.9	12.4	10.2	11.3	11.3	11.7	11.3	8.7	6.2
85°	0.0	0.0	4.7	5.1	6.9	6.9	5.8	5.8	5.8	5.1	3.6
87.5°	0.0	0.0	0.0	0.0	0.4	1.1	2.2	2.6	2.9	2.2	1.5
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: P631610

CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0
2.5°	152.3	151.6	152.7	153.4	154.1	154.1	153.4	152.7	151.6	152.7	151.6
5°	140.7	141.8	143.6	144.3	145.0	143.6	142.8	140.7	138.8	139.2	138.5
7.5°	131.5	132.6	134.8	136.3	136.3	135.6	133.4	131.2	128.3	128.3	127.9
10°	123.2	124.6	127.2	129.0	129.7	129.0	126.8	123.9	121.3	121.3	120.3
12.5°	116.2	118.1	121.0	123.5	124.3	123.5	121.3	118.4	115.5	115.5	114.8
15°	110.4	112.6	115.9	118.8	119.9	118.8	116.2	112.6	109.7	110.0	109.0
17.5°	104.9	106.8	111.1	114.4	115.5	114.4	111.1	106.4	103.5	104.2	103.5
20°	98.8	100.9	105.3	109.0	110.0	109.0	105.3	100.2	97.3	97.3	97.7
22.5°	92.2	94.4	98.8	101.3	102.8	101.7	98.0	93.3	90.4	90.4	90.7
25°	86.4	87.5	90.7	93.3	93.6	92.6	89.6	86.0	83.8	84.9	85.3
27.5°	80.9	80.9	82.4	83.8	83.4	82.4	81.3	78.3	78.0	79.1	80.2
30°	75.1	73.2	72.5	71.4	71.1	70.7	71.8	71.8	72.5	74.0	75.1
32.5°	70.0	66.3	63.0	59.8	57.9	59.4	62.3	64.9	67.4	69.6	70.7
35°	64.1	58.3	52.8	48.5	45.5	47.7	52.5	57.2	61.6	64.5	66.3
37.5°	58.3	49.9	43.4	37.9	35.7	37.5	42.6	49.2	55.8	59.4	61.9
40°	52.1	41.5	33.9	29.5	27.3	29.2	34.3	40.8	49.6	54.3	57.6
42.5°	45.9	34.3	27.3	23.0	21.9	23.0	27.0	33.5	43.0	48.8	53.2
45°	39.7	28.4	21.9	18.6	17.5	18.6	21.9	27.3	36.8	43.4	48.5
47.5°	34.3	24.1	18.2	15.3	14.6	15.7	18.2	23.0	31.0	37.5	43.4
50°	29.9	21.1	15.7	13.1	12.4	13.5	15.7	19.3	26.2	32.1	38.3
52.5°	27.0	19.7	13.8	11.3	10.9	11.7	13.5	16.4	22.2	27.3	33.2
55°	26.2	19.7	12.8	10.2	9.8	10.6	12.0	14.2	19.3	23.7	28.8
57.5°	27.0	21.1	12.0	8.7	8.4	9.1	10.6	12.4	16.8	20.4	25.1
60°	27.0	21.5	10.6	6.9	6.6	7.3	8.7	10.9	14.9	17.9	21.9
62.5°	24.4	19.7	8.7	5.5	4.7	5.5	7.3	9.1	13.1	16.0	19.3
65°	21.1	16.8	7.3	4.0	3.3	4.0	5.8	7.7	11.3	13.8	17.5
67.5°	17.1	12.8	5.5	2.9	2.2	2.9	4.4	6.2	9.5	12.0	15.7
70°	12.8	9.1	4.4	2.6	2.2	2.6	4.0	5.8	8.4	10.9	14.6
72.5°	9.5	6.2	3.6	2.6	1.8	2.6	3.6	5.5	8.0	10.6	13.8
75°	8.0	5.1	3.3	2.2	1.8	2.2	3.3	5.1	7.3	9.8	13.1
77.5°	7.7	4.7	2.9	1.8	1.5	1.8	2.9	4.4	6.6	9.1	12.8
80°	6.6	4.0	2.6	1.5	1.1	1.5	2.6	3.6	5.1	6.9	9.8
82.5°	5.1	3.3	1.8	0.7	0.4	0.7	1.8	2.2	3.3	4.0	5.8
85°	3.3	1.8	0.7	0.0	0.0	0.0	0.7	1.5	1.5	1.8	2.9
87.5°	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.1
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: P631610  
 CATALOG NUMBER: GWS-SA2B-722-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0
2.5°	153.8	154.1	154.9	156.0	158.5	160.7	162.9	165.8	167.3	167.3
5°	139.2	139.6	139.9	141.4	145.0	147.9	152.7	158.5	161.4	162.2
7.5°	127.9	128.6	129.4	130.5	134.1	138.1	144.3	155.2	160.7	161.8
10°	121.3	122.4	123.9	126.1	129.4	133.7	144.3	164.0	173.1	174.9
12.5°	116.2	118.1	119.5	122.1	126.1	133.0	154.1	188.8	204.8	209.2
15°	111.1	113.3	115.5	118.1	122.4	135.6	173.1	233.2	259.8	263.1
17.5°	106.0	108.6	111.5	114.4	119.9	141.8	203.0	294.8	332.0	339.3
20°	100.2	103.5	107.5	111.1	117.3	151.6	244.5	368.0	414.7	430.4
22.5°	94.0	98.0	102.8	107.5	114.4	163.6	294.8	446.7	512.0	522.2
25°	88.9	92.9	97.3	102.0	109.7	178.2	355.7	544.4	603.8	613.6
27.5°	84.2	88.2	92.2	96.6	104.9	197.1	428.9	648.3	710.2	720.4
30°	79.1	83.8	87.8	92.2	100.6	220.5	513.4	763.4	822.1	831.6
32.5°	74.7	79.4	83.4	87.8	97.3	246.0	602.3	865.4	913.2	913.2
35°	71.1	76.2	79.1	84.9	94.7	262.4	686.5	962.7	998.8	997.4
37.5°	67.0	73.2	75.4	79.4	91.5	264.2	765.6	1065.5	1092.1	1082.6
40°	63.0	69.6	72.9	75.1	87.8	249.2	852.3	1159.9	1182.5	1170.1
42.5°	59.4	64.5	69.2	71.8	85.6	223.0	921.9	1260.8	1287.8	1276.8
45°	55.8	60.1	63.0	67.8	87.1	204.8	981.7	1378.5	1425.9	1417.9
47.5°	52.1	55.8	57.6	64.9	96.9	196.4	1018.1	1560.7	1650.0	1643.4
50°	48.1	52.5	52.5	64.1	111.5	199.3	1049.8	1824.5	1962.6	1960.5
52.5°	44.1	48.8	48.1	69.6	122.8	212.8	1085.9	2057.4	2297.5	2317.6
55°	40.1	44.5	45.2	80.5	129.4	224.5	946.3	2155.4	2583.6	2653.9
57.5°	35.7	38.3	47.0	88.9	127.2	258.4	648.3	2173.3	2766.1	2917.0
60°	31.0	33.2	53.2	87.1	120.3	238.7	408.1	2012.9	2740.3	2931.6
62.5°	27.0	30.6	56.1	76.9	122.4	207.0	260.2	1715.6	2493.6	2711.8
65°	23.7	29.5	51.0	69.6	123.9	140.3	175.6	1395.6	2252.7	2460.4
67.5°	21.1	32.8	41.9	61.9	106.4	98.8	120.6	1084.4	1894.1	2080.3
70°	19.3	33.5	34.3	53.2	82.4	63.4	79.4	729.9	1305.6	1518.4
72.5°	17.5	24.8	25.9	42.6	53.2	38.6	51.4	417.6	951.8	1096.8
75°	16.8	16.8	17.9	27.7	29.5	28.1	33.2	249.2	682.5	788.6
77.5°	15.7	12.8	11.3	17.9	16.0	20.0	19.7	110.8	295.9	319.9
80°	12.4	9.1	7.7	11.3	10.9	13.5	11.7	9.1	13.5	13.1
82.5°	7.7	5.8	5.5	6.9	6.2	6.9	5.5	1.5	1.5	1.5
85°	3.6	3.3	2.9	2.9	3.3	2.9	2.2	0.7	0.4	0.4
87.5°	1.8	1.8	1.5	1.1	1.5	1.5	1.1	0.4	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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