

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: P631775

Luminaire Tested: GWS-SA2B-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631775
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4224.2 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

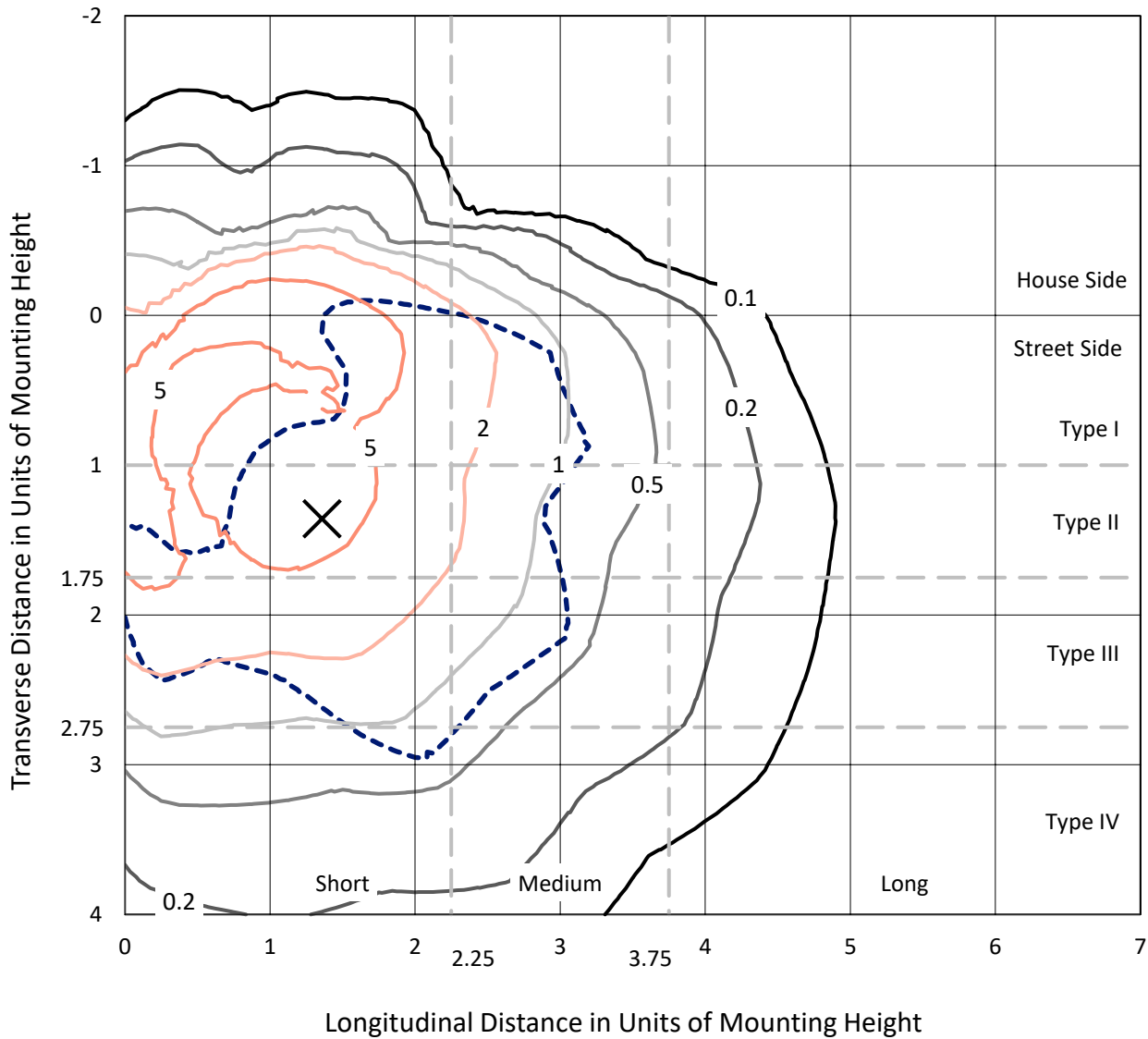
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631775
 CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

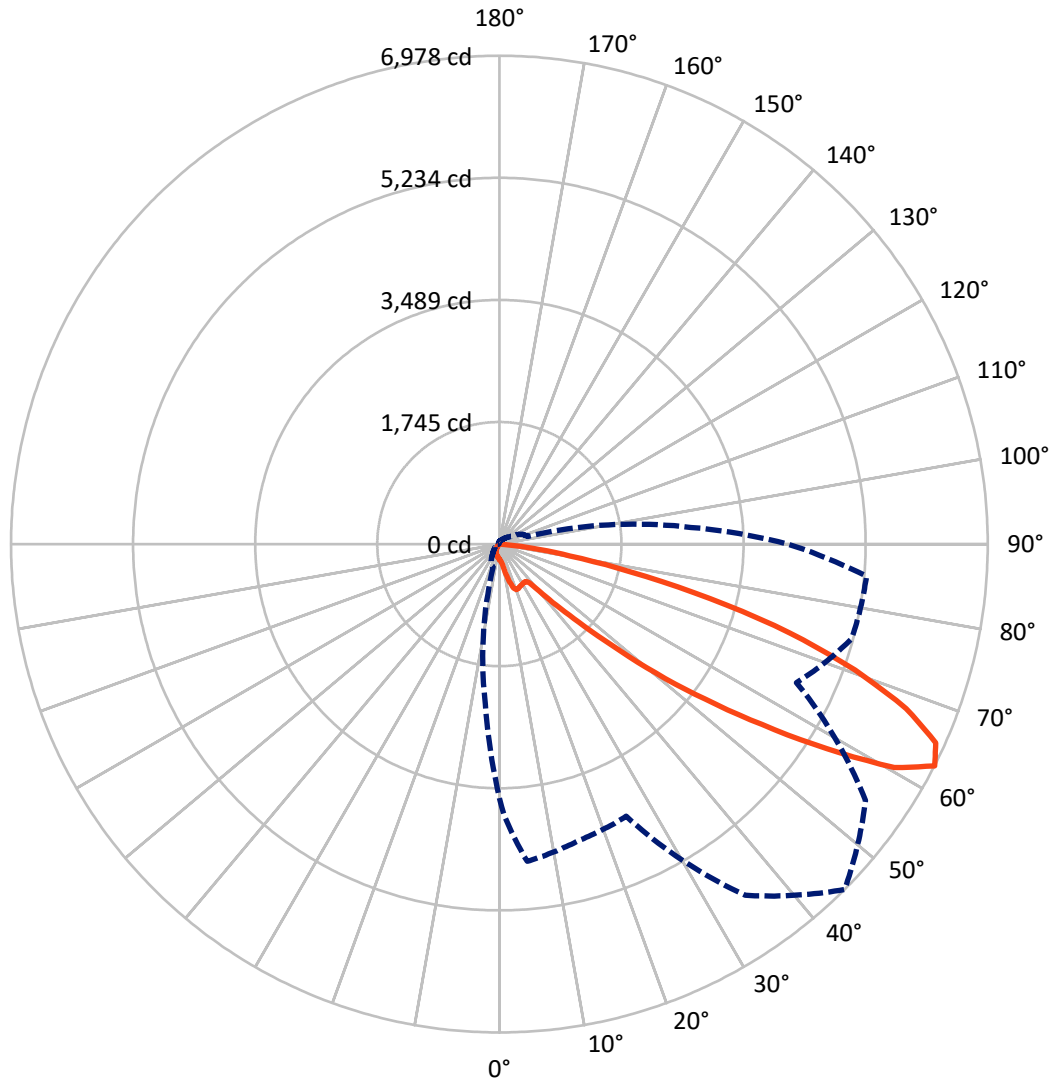
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P631775
CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P631775
 CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	521.3	0.0	521.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3702.9	0.0	3702.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	4224.2	0.0	4224.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.5	0.5
10°-20°	73.6	1.7
20°-30°	160.1	3.8
30°-40°	262.8	6.2
40°-50°	483.1	11.4
50°-60°	1037.4	24.6
60°-70°	1393.4	33.0
70°-80°	725.5	17.2
80°-90°	68.8	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°	4224.2	100.0
0°-180°	4224.2	100.0

Coefficient of Utilization



REPORT NUMBER: P631775

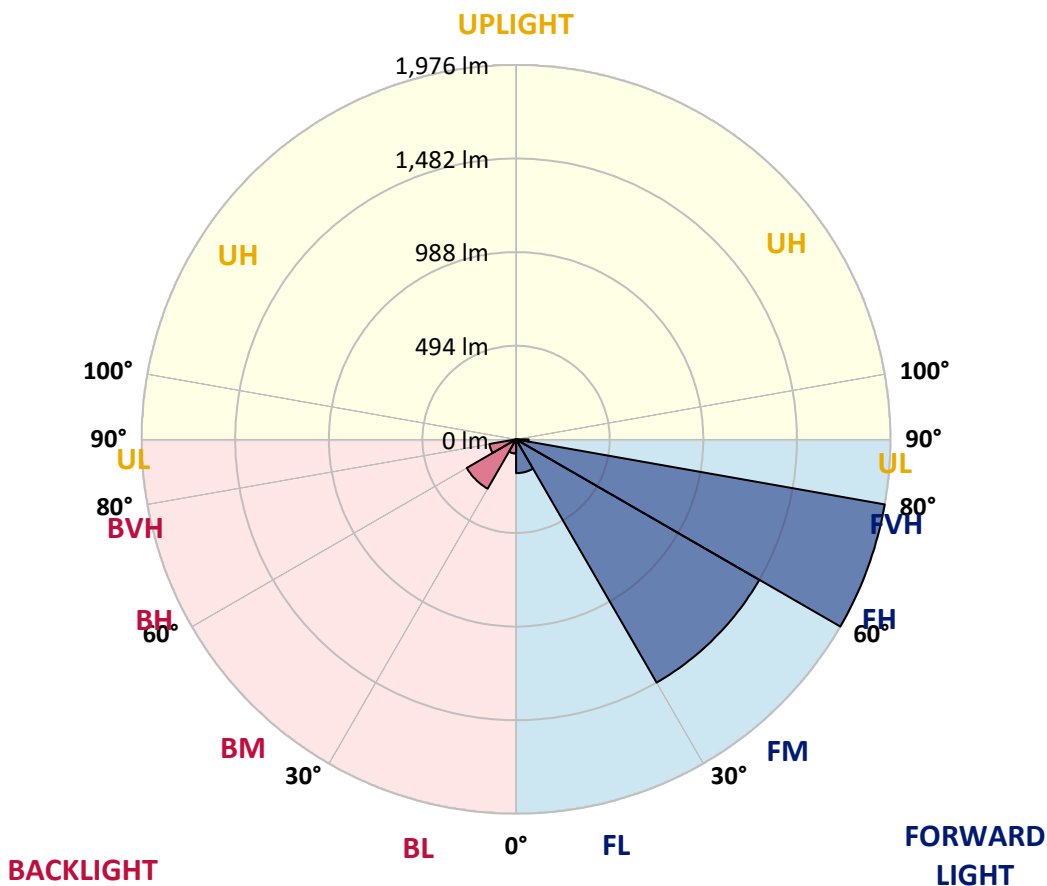
CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.5	4.2			
FM (30°-60°)	1482.6	35.1			
FH (60°-80°)	1976.1	46.8			G2/5000
FVH (80°-90°)	65.7	1.6			G1/100
BL (0°-30°)	74.8	1.8	B0/110		
BM (30°-60°)	300.6	7.1	B1/1000		
BH (60°-80°)	142.8	3.4	B1/500		G1/500
BVH (80°-90°)	3.1	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 IV Short





REPORT NUMBER: P631775

CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6
2.5°	224.0	224.9	225.9	229.3	231.8	233.7	234.2	232.7	229.3	225.9	221.0
5°	217.1	218.1	221.5	230.8	240.1	247.4	249.8	248.4	240.1	229.3	218.1
7.5°	216.6	218.6	226.9	246.4	266.4	281.5	285.4	282.0	266.4	244.9	222.0
10°	234.2	237.6	249.8	285.0	321.5	348.4	359.1	344.5	319.6	280.6	243.0
12.5°	280.1	285.9	309.3	360.6	417.2	452.8	467.4	449.4	410.4	353.8	294.2
15°	352.3	361.1	396.2	472.8	539.7	571.4	576.2	566.0	520.6	458.2	378.1
17.5°	454.3	467.0	521.6	599.7	648.0	659.2	657.7	647.0	613.8	570.9	495.3
20°	576.2	591.4	645.0	709.5	714.3	701.2	693.8	687.5	676.3	669.0	609.9
22.5°	699.2	717.7	773.9	790.0	746.1	708.0	689.9	694.8	711.4	747.5	723.6
25°	821.7	839.2	891.9	848.5	760.7	697.3	674.3	686.0	725.6	803.6	834.4
27.5°	964.6	977.8	1009.0	888.5	763.1	688.5	666.0	684.1	732.4	838.8	955.9
30°	1113.5	1121.3	1106.1	899.3	754.8	675.3	657.7	684.1	744.1	862.2	1047.1
32.5°	1222.8	1224.2	1174.9	900.2	750.4	664.6	649.9	681.2	755.3	881.7	1135.4
35°	1335.5	1328.2	1240.8	914.9	762.2	668.5	655.8	689.4	772.9	904.6	1213.0
37.5°	1449.6	1436.5	1314.5	938.8	792.4	710.9	703.1	731.9	801.2	936.3	1298.4
40°	1566.8	1548.7	1391.1	974.9	859.7	855.3	882.2	878.8	878.8	976.8	1386.2
42.5°	1709.7	1688.7	1504.3	1076.9	1016.9	1114.9	1188.1	1142.7	1058.8	1070.0	1500.4
45°	1898.5	1880.5	1700.4	1272.0	1263.3	1488.7	1587.2	1497.5	1288.6	1285.2	1691.2
47.5°	2200.6	2197.2	2013.2	1498.4	1564.8	1964.4	2154.7	1982.0	1550.7	1513.1	2052.2
50°	2625.1	2614.8	2403.1	1763.9	1923.4	2553.8	2893.4	2605.6	1867.3	1779.0	2535.8
52.5°	3103.3	3114.0	2949.1	2053.7	2304.5	3209.6	3682.4	3319.9	2211.3	2117.1	3144.2
55°	3553.6	3615.1	3571.7	2392.8	2676.8	3933.7	4549.0	4103.5	2637.3	2559.7	3826.4
57.5°	3905.9	4079.1	4383.6	2885.6	3114.5	4780.8	5516.6	4953.0	3134.5	3278.4	4754.9
60°	3925.4	4154.8	4861.8	3916.6	3677.6	5507.3	6482.7	5783.0	3916.2	4498.7	5482.4
62.5°	3631.2	3877.1	4550.5	4385.1	4290.9	6125.5	6978.4	6388.0	4685.1	5213.6	5266.8
65°	3294.5	3542.9	4203.1	3853.7	4219.6	6099.2	6852.5	6402.2	4754.9	4727.6	4880.8
67.5°	2785.6	3008.6	3606.3	3411.1	3889.3	5804.9	6270.9	5998.7	4380.7	4421.7	4490.0
70°	2033.2	2247.9	2802.7	2812.4	3396.5	5274.6	5388.2	5350.7	4034.2	4077.7	3882.5
72.5°	1468.7	1649.7	2128.4	2306.5	2711.4	4423.1	4344.6	4489.5	3461.4	3631.7	3118.4
75°	1055.9	1191.5	1561.4	2006.4	2149.3	3284.8	3110.1	3477.0	2777.3	3127.2	2344.5
77.5°	428.4	476.2	614.3	1351.6	1412.6	2209.8	1903.9	2525.5	1980.0	2054.7	1136.4
80°	17.6	19.5	25.4	697.7	968.5	1243.3	1018.8	1350.1	1307.7	827.5	268.4
82.5°	2.0	2.0	4.4	201.0	424.0	686.0	480.1	777.8	662.1	350.8	122.0
85°	0.5	0.5	1.0	22.9	99.5	109.8	64.9	238.6	307.9	143.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.4	4.9	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: P631775

CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6
2.5°	221.0	218.6	215.7	212.7	211.3	207.4	205.9	204.9	204.0	204.4	204.4
5°	213.7	208.3	202.0	195.7	192.2	188.3	186.4	185.4	185.9	187.9	187.9
7.5°	212.7	202.5	188.8	180.5	176.6	173.7	171.8	170.8	171.3	173.7	174.7
10°	228.8	210.8	186.4	172.2	167.8	164.9	163.0	161.5	160.5	162.5	163.0
12.5°	263.5	238.6	198.1	171.3	163.5	159.6	158.1	155.2	153.7	154.7	155.2
15°	335.2	292.3	221.5	175.2	159.6	155.2	152.7	150.3	147.8	147.4	147.8
17.5°	428.9	367.4	257.1	184.4	156.6	151.3	147.8	144.4	141.0	140.5	140.0
20°	545.0	459.6	306.9	199.1	154.2	147.8	143.0	138.1	133.7	132.2	132.2
22.5°	650.9	570.9	370.8	217.1	150.8	143.0	137.1	131.3	126.4	123.9	123.4
25°	780.2	689.0	447.4	238.1	145.9	136.6	130.3	124.4	119.5	116.6	115.6
27.5°	910.5	813.4	534.3	265.4	140.0	130.3	124.4	119.1	113.7	110.3	109.3
30°	1036.9	947.6	631.9	299.6	135.6	123.9	119.1	113.7	108.8	103.4	102.0
32.5°	1172.5	1084.7	741.2	337.6	132.2	119.5	114.2	109.3	103.0	98.1	95.6
35°	1303.3	1226.2	861.7	374.7	128.8	115.6	109.8	104.9	98.1	92.7	89.3
37.5°	1435.0	1370.1	987.6	397.2	123.9	110.3	104.9	101.0	93.2	86.9	82.9
40°	1574.6	1518.9	1123.7	387.9	119.5	104.4	101.5	97.1	88.3	81.0	76.1
42.5°	1727.8	1660.9	1262.3	352.3	115.6	99.5	96.6	92.2	83.9	75.1	68.8
45°	1920.5	1816.6	1376.0	298.6	117.6	94.7	88.8	87.8	80.0	68.8	61.0
47.5°	2251.8	2055.7	1464.3	264.0	130.8	89.3	82.5	84.9	76.6	62.5	53.7
50°	2758.8	2451.9	1546.7	261.5	150.8	86.9	76.6	82.9	73.2	56.1	47.3
52.5°	3241.8	2854.4	1599.4	283.0	168.3	93.2	70.8	80.5	70.8	51.7	42.9
55°	3703.9	3086.7	1505.3	298.6	184.9	112.2	66.4	76.6	67.8	49.3	41.5
57.5°	4202.1	3190.1	1185.2	330.3	196.6	128.3	67.3	70.8	63.9	47.8	41.0
60°	4350.9	3057.9	715.3	371.8	190.3	133.2	74.7	62.9	58.6	44.9	39.5
62.5°	4119.6	2744.1	422.1	338.6	184.9	125.9	85.4	58.1	53.2	41.0	36.6
65°	3773.7	2318.2	275.2	285.9	196.1	112.2	90.8	55.6	48.3	37.1	32.2
67.5°	3378.5	1867.3	192.7	168.8	181.0	101.0	76.6	55.1	43.4	31.2	26.3
70°	2845.6	1398.4	135.6	111.7	150.8	89.8	59.5	53.7	38.1	25.4	20.5
72.5°	2198.6	875.4	101.0	72.2	107.3	73.2	47.3	45.4	30.7	21.0	15.6
75°	1621.4	499.2	71.2	52.2	70.8	55.6	35.1	32.2	26.3	20.0	14.2
77.5°	846.6	249.8	44.4	40.0	40.5	34.6	25.4	23.4	24.4	20.0	13.2
80°	162.5	49.8	26.8	29.3	22.0	22.0	18.5	19.5	21.5	16.1	11.2
82.5°	67.8	10.7	14.6	16.6	13.7	15.1	15.1	15.6	15.1	11.7	8.3
85°	0.0	0.0	6.3	6.8	9.3	9.3	7.8	7.8	7.8	6.8	4.9
87.5°	0.0	0.0	0.0	0.0	0.5	1.5	2.9	3.4	3.9	2.9	2.0
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: P631775

CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6
2.5°	204.0	203.0	204.4	205.4	206.4	206.4	205.4	204.4	203.0	204.4	203.0
5°	188.3	189.8	192.2	193.2	194.2	192.2	191.3	188.3	185.9	186.4	185.4
7.5°	176.1	177.6	180.5	182.5	182.5	181.5	178.6	175.7	171.8	171.8	171.3
10°	164.9	166.9	170.3	172.7	173.7	172.7	169.8	165.9	162.5	162.5	161.0
12.5°	155.7	158.1	162.0	165.4	166.4	165.4	162.5	158.6	154.7	154.7	153.7
15°	147.8	150.8	155.2	159.1	160.5	159.1	155.7	150.8	146.9	147.4	145.9
17.5°	140.5	143.0	148.8	153.2	154.7	153.2	148.8	142.5	138.6	139.5	138.6
20°	132.2	135.2	141.0	145.9	147.4	145.9	141.0	134.2	130.3	130.3	130.8
22.5°	123.4	126.4	132.2	135.6	137.6	136.1	131.3	124.9	121.0	121.0	121.5
25°	115.6	117.1	121.5	124.9	125.4	123.9	120.0	115.2	112.2	113.7	114.2
27.5°	108.3	108.3	110.3	112.2	111.7	110.3	108.8	104.9	104.4	105.9	107.3
30°	100.5	98.1	97.1	95.6	95.1	94.7	96.1	96.1	97.1	99.1	100.5
32.5°	93.7	88.8	84.4	80.0	77.6	79.5	83.4	86.9	90.3	93.2	94.7
35°	85.9	78.1	70.8	64.9	61.0	63.9	70.3	76.6	82.5	86.4	88.8
37.5°	78.1	66.8	58.1	50.7	47.8	50.3	57.1	65.9	74.7	79.5	82.9
40°	69.8	55.6	45.4	39.5	36.6	39.0	45.9	54.6	66.4	72.7	77.1
42.5°	61.5	45.9	36.6	30.7	29.3	30.7	36.1	44.9	57.6	65.4	71.2
45°	53.2	38.1	29.3	24.9	23.4	24.9	29.3	36.6	49.3	58.1	64.9
47.5°	45.9	32.2	24.4	20.5	19.5	21.0	24.4	30.7	41.5	50.3	58.1
50°	40.0	28.3	21.0	17.6	16.6	18.1	21.0	25.9	35.1	42.9	51.2
52.5°	36.1	26.3	18.5	15.1	14.6	15.6	18.1	22.0	29.8	36.6	44.4
55°	35.1	26.3	17.1	13.7	13.2	14.2	16.1	19.0	25.9	31.7	38.5
57.5°	36.1	28.3	16.1	11.7	11.2	12.2	14.2	16.6	22.4	27.3	33.7
60°	36.1	28.8	14.2	9.3	8.8	9.8	11.7	14.6	20.0	23.9	29.3
62.5°	32.7	26.3	11.7	7.3	6.3	7.3	9.8	12.2	17.6	21.5	25.9
65°	28.3	22.4	9.8	5.4	4.4	5.4	7.8	10.2	15.1	18.5	23.4
67.5°	22.9	17.1	7.3	3.9	2.9	3.9	5.9	8.3	12.7	16.1	21.0
70°	17.1	12.2	5.9	3.4	2.9	3.4	5.4	7.8	11.2	14.6	19.5
72.5°	12.7	8.3	4.9	3.4	2.4	3.4	4.9	7.3	10.7	14.2	18.5
75°	10.7	6.8	4.4	2.9	2.4	2.9	4.4	6.8	9.8	13.2	17.6
77.5°	10.2	6.3	3.9	2.4	2.0	2.4	3.9	5.9	8.8	12.2	17.1
80°	8.8	5.4	3.4	2.0	1.5	2.0	3.4	4.9	6.8	9.3	13.2
82.5°	6.8	4.4	2.4	1.0	0.5	1.0	2.4	2.9	4.4	5.4	7.8
85°	4.4	2.4	1.0	0.0	0.0	0.0	1.0	2.0	2.0	2.4	3.9
87.5°	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	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: P631775
 CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6
2.5°	205.9	206.4	207.4	208.8	212.3	215.2	218.1	222.0	224.0	224.0
5°	186.4	186.9	187.4	189.3	194.2	198.1	204.4	212.3	216.2	217.1
7.5°	171.3	172.2	173.2	174.7	179.6	184.9	193.2	207.9	215.2	216.6
10°	162.5	163.9	165.9	168.8	173.2	179.1	193.2	219.6	231.8	234.2
12.5°	155.7	158.1	160.0	163.5	168.8	178.1	206.4	252.7	274.2	280.1
15°	148.8	151.7	154.7	158.1	163.9	181.5	231.8	312.3	347.9	352.3
17.5°	142.0	145.4	149.3	153.2	160.5	189.8	271.8	394.7	444.5	454.3
20°	134.2	138.6	143.9	148.8	157.1	203.0	327.4	492.8	555.3	576.2
22.5°	125.9	131.3	137.6	143.9	153.2	219.1	394.7	598.2	685.5	699.2
25°	119.1	124.4	130.3	136.6	146.9	238.6	476.2	729.0	808.5	821.7
27.5°	112.7	118.1	123.4	129.3	140.5	264.0	574.3	868.0	951.0	964.6
30°	105.9	112.2	117.6	123.4	134.7	295.2	687.5	1022.2	1100.8	1113.5
32.5°	100.0	106.4	111.7	117.6	130.3	329.4	806.6	1158.8	1222.8	1222.8
35°	95.1	102.0	105.9	113.7	126.9	351.3	919.3	1289.1	1337.4	1335.5
37.5°	89.8	98.1	101.0	106.4	122.5	353.8	1025.1	1426.7	1462.3	1449.6
40°	84.4	93.2	97.6	100.5	117.6	333.7	1141.3	1553.1	1583.3	1566.8
42.5°	79.5	86.4	92.7	96.1	114.7	298.6	1234.5	1688.2	1724.4	1709.7
45°	74.7	80.5	84.4	90.8	116.6	274.2	1314.5	1845.9	1909.3	1898.5
47.5°	69.8	74.7	77.1	86.9	129.8	263.0	1363.3	2089.8	2209.4	2200.6
50°	64.4	70.3	70.3	85.9	149.3	266.9	1405.7	2443.1	2628.0	2625.1
52.5°	59.0	65.4	64.4	93.2	164.4	285.0	1454.0	2754.9	3076.4	3103.3
55°	53.7	59.5	60.5	107.8	173.2	300.6	1267.2	2886.1	3459.4	3553.6
57.5°	47.8	51.2	62.9	119.1	170.3	345.9	868.0	2910.0	3703.9	3905.9
60°	41.5	44.4	71.2	116.6	161.0	319.6	546.5	2695.3	3669.3	3925.4
62.5°	36.1	41.0	75.1	103.0	163.9	277.1	348.4	2297.2	3338.9	3631.2
65°	31.7	39.5	68.3	93.2	165.9	187.9	235.2	1868.8	3016.4	3294.5
67.5°	28.3	43.9	56.1	82.9	142.5	132.2	161.5	1452.1	2536.3	2785.6
70°	25.9	44.9	45.9	71.2	110.3	84.9	106.4	977.3	1748.3	2033.2
72.5°	23.4	33.2	34.6	57.1	71.2	51.7	68.8	559.2	1274.5	1468.7
75°	22.4	22.4	23.9	37.1	39.5	37.6	44.4	333.7	913.9	1055.9
77.5°	21.0	17.1	15.1	23.9	21.5	26.8	26.3	148.3	396.2	428.4
80°	16.6	12.2	10.2	15.1	14.6	18.1	15.6	12.2	18.1	17.6
82.5°	10.2	7.8	7.3	9.3	8.3	9.3	7.3	2.0	2.0	2.0
85°	4.9	4.4	3.9	3.9	4.4	3.9	2.9	1.0	0.5	0.5
87.5°	2.4	2.4	2.0	1.5	2.0	2.0	1.5	0.5	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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