

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: P631828

Luminaire Tested: GWS-SA2B-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631828  
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-SA2B-740-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

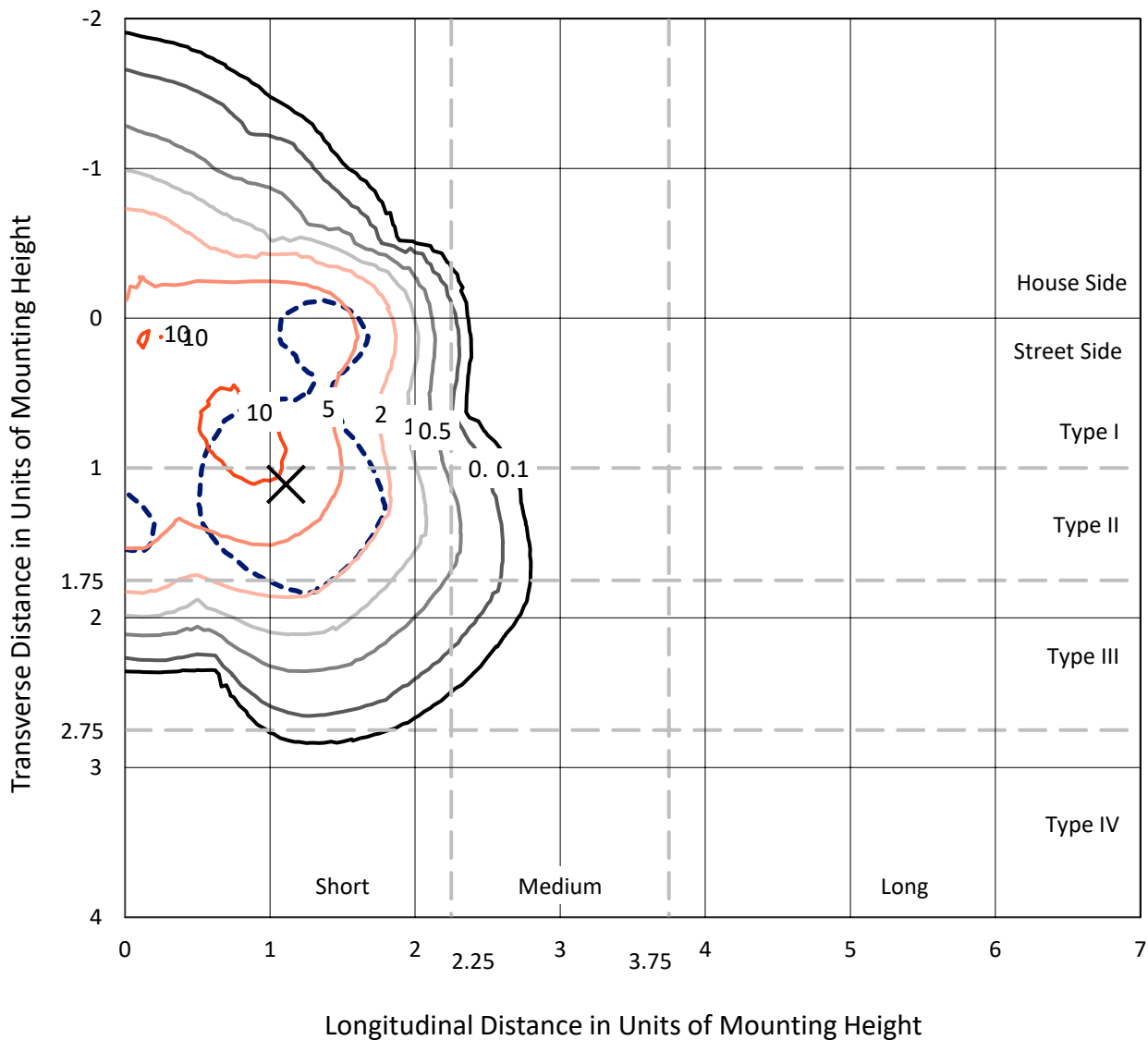
Lumens per Lamp: N/A  
Luminaire Lumens: 3681.8 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P631828  
 CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

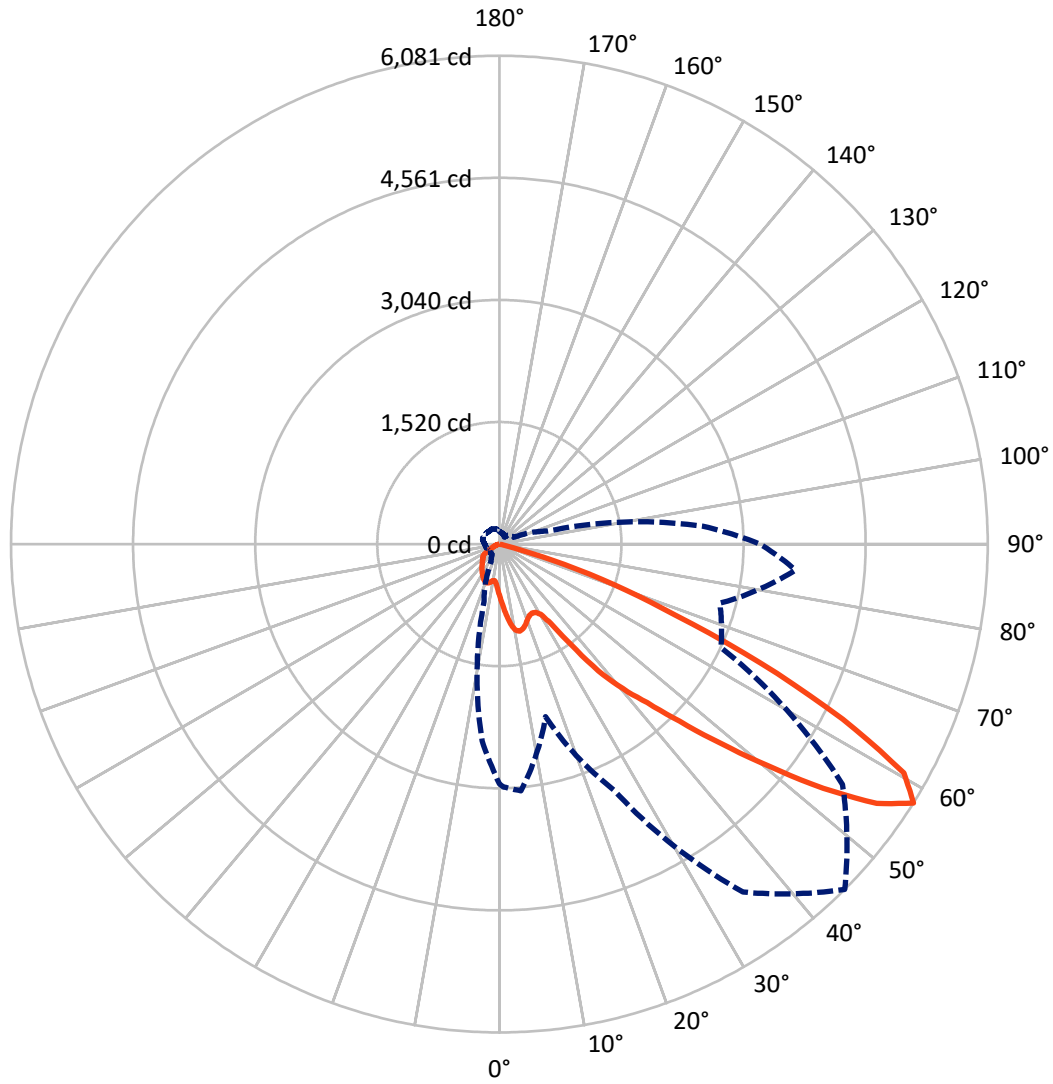
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P631828  
CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical



REPORT NUMBER: P631828  
 CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	824.5	0.0	824.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	2857.3	0.0	2857.3
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	3681.8	0.0	3681.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	1.7
10°-20°	205.9	5.6
20°-30°	334.5	9.1
30°-40°	516.9	14.0
40°-50°	828.9	22.5
50°-60°	1132.8	30.8
60°-70°	548.7	14.9
70°-80°	50.2	1.4
80°-90°	0.1	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°	3681.8	100.0
0°-180°	3681.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631828

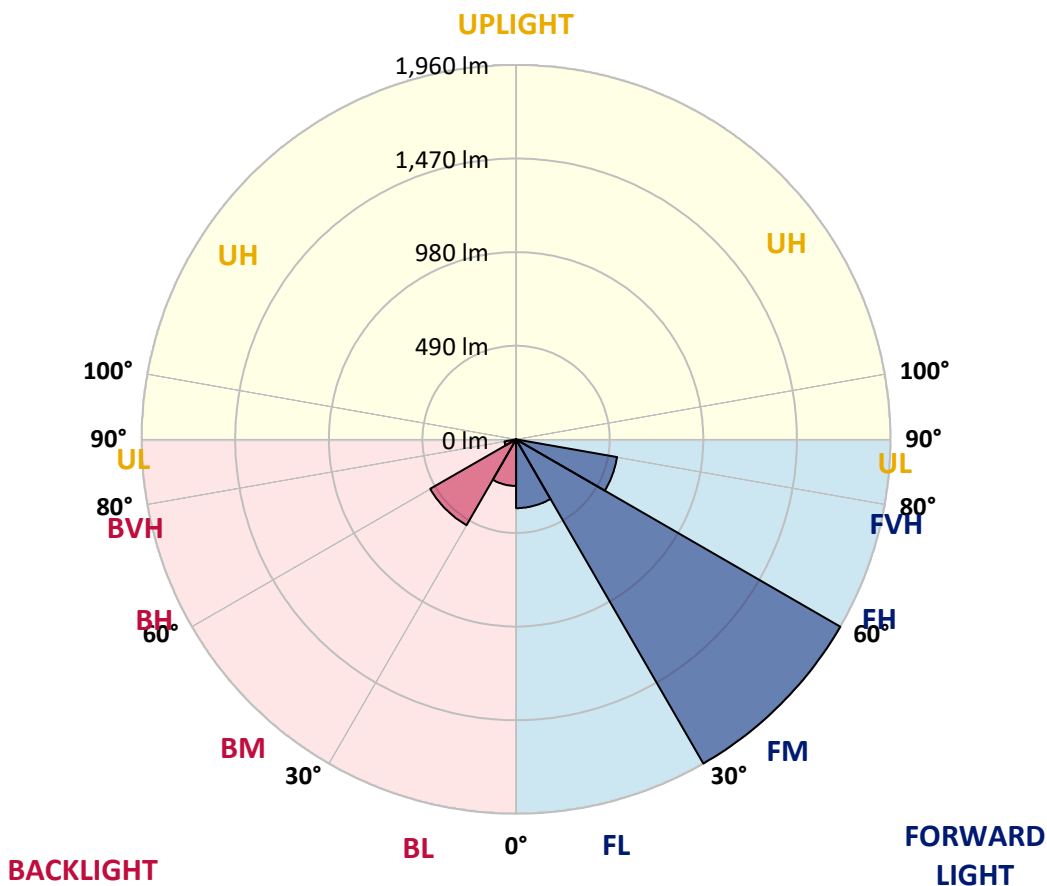
CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.2	9.8			
FM (30°-60°)	1959.9	53.2			
FH (60°-80°)	537.1	14.6			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	243.9	6.6	B1/500		
BM (30°-60°)	518.7	14.1	B1/1000		
BH (60°-80°)	61.8	1.7	B0/110		G0/110
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: B1-U0-G0**

Type III Short





REPORT NUMBER: P631828  
 CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	701.0	705.5	712.9	728.7	742.1	751.0	755.0	754.0	748.5	744.6	736.7
5°	776.2	776.2	790.6	826.7	854.4	871.7	880.6	875.2	864.3	847.0	820.3
7.5°	842.0	844.5	868.8	920.2	962.3	987.0	1001.3	998.4	979.1	945.9	892.5
10°	893.5	896.5	928.6	991.5	1040.9	1066.2	1087.4	1089.4	1068.1	1024.1	962.8
12.5°	943.5	946.4	980.1	1040.4	1084.0	1094.4	1113.2	1120.6	1115.1	1084.0	1020.1
15°	997.4	1004.3	1033.0	1078.0	1096.3	1084.0	1096.3	1109.7	1128.0	1125.0	1067.6
17.5°	1050.3	1055.3	1084.5	1100.3	1080.0	1047.9	1053.8	1069.6	1111.2	1151.7	1114.6
20°	1099.3	1106.2	1130.5	1109.7	1048.3	998.4	998.9	1019.7	1083.0	1168.1	1162.6
22.5°	1150.8	1161.1	1178.5	1120.1	1019.2	959.3	961.8	980.6	1060.7	1183.4	1217.1
25°	1218.0	1227.9	1239.3	1145.8	1009.8	940.0	949.4	966.7	1060.7	1209.6	1284.3
27.5°	1309.1	1316.0	1316.5	1193.8	1026.1	943.0	962.8	982.5	1092.4	1262.1	1374.4
30°	1423.4	1434.2	1419.9	1268.5	1077.0	982.5	1011.7	1036.5	1160.7	1350.6	1507.0
32.5°	1562.4	1577.7	1558.4	1379.3	1183.4	1119.1	1172.0	1186.4	1269.5	1478.8	1657.4
35°	1725.6	1738.5	1717.7	1532.7	1431.8	1443.6	1539.6	1521.3	1488.2	1636.6	1833.0
37.5°	1904.7	1916.6	1876.5	1765.2	1798.9	1850.3	2003.7	1940.9	1834.0	1839.9	2023.5
40°	2069.0	2081.9	2019.0	2018.0	2087.3	2181.3	2366.3	2279.7	2134.3	2106.1	2202.1
42.5°	2239.2	2248.1	2191.2	2152.6	2309.9	2503.4	2699.3	2582.5	2333.2	2302.5	2425.7
45°	2482.1	2500.9	2399.5	2218.9	2510.3	2873.9	3147.0	2918.9	2468.7	2444.0	2768.1
47.5°	2839.3	2853.1	2646.3	2260.5	2696.8	3335.5	3706.6	3355.3	2588.0	2531.6	3236.1
50°	3134.7	3144.1	2873.4	2306.0	2895.2	3833.2	4344.3	3872.8	2722.0	2676.5	3672.9
52.5°	3352.3	3388.0	3171.8	2399.5	3155.9	4418.5	5050.3	4485.8	2931.3	2956.5	4035.1
55°	3397.4	3445.8	3375.6	2456.9	3385.5	5014.7	5702.3	5034.4	3140.1	3168.8	4156.8
57.5°	2985.7	3024.3	3082.7	2225.3	3380.0	5287.7	6080.8	5216.5	3045.1	2841.8	3701.1
60°	2236.7	2263.4	2369.3	1700.9	3108.4	5046.3	5785.9	4906.8	2662.7	2168.4	2820.0
62.5°	1326.4	1338.3	1472.3	1101.8	2580.1	4345.8	4798.5	4234.0	2104.1	1458.5	1727.1
65°	509.1	504.1	606.5	543.7	1897.3	3461.7	3569.0	3227.7	1443.6	668.4	658.5
67.5°	78.7	75.2	101.4	160.8	1368.4	2399.0	2354.9	2326.3	904.4	155.8	136.1
70°	17.8	17.8	21.8	47.5	836.1	1409.5	1508.5	1438.2	578.8	33.1	17.8
72.5°	8.4	8.4	10.4	20.3	302.8	580.8	676.8	666.4	188.0	10.9	6.4
75°	3.0	3.5	3.5	4.5	18.3	30.2	69.3	49.5	11.9	0.0	0.0
77.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	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	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: P631828

CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	719.3	715.9	703.0	685.7	668.9	654.0	638.7	620.4	607.0	591.7	586.8
5°	799.5	777.7	742.6	706.0	672.3	643.7	615.9	586.3	564.5	542.7	535.3
7.5°	867.3	835.1	778.2	723.3	677.3	636.7	596.7	556.1	524.4	498.7	490.8
10°	928.1	891.0	814.8	747.1	689.2	642.2	593.7	542.7	501.7	471.0	463.6
12.5°	980.6	937.5	846.0	764.9	694.1	640.2	593.2	552.6	515.5	480.4	471.0
15°	1024.6	977.1	872.2	776.7	686.7	615.5	574.4	568.0	565.0	526.4	508.1
17.5°	1067.6	1014.2	893.5	782.2	665.9	571.9	542.2	571.4	602.6	577.4	554.1
20°	1112.7	1051.8	915.3	783.2	631.3	522.9	518.0	564.0	603.6	595.7	573.9
22.5°	1165.6	1098.8	942.5	782.7	587.7	481.4	500.2	549.7	581.8	581.3	564.0
25°	1242.3	1158.2	979.1	785.6	540.3	449.2	480.4	525.4	551.6	550.6	536.3
27.5°	1324.4	1228.9	1026.6	793.1	499.7	430.4	457.1	492.3	515.0	514.0	501.7
30°	1439.7	1310.6	1072.1	793.6	470.5	420.5	431.4	455.7	477.4	474.9	465.5
32.5°	1579.7	1402.6	1110.2	765.4	452.2	411.1	404.7	417.1	433.9	430.4	427.9
35°	1748.9	1511.9	1142.8	703.5	424.0	392.3	375.0	377.5	389.4	391.3	390.3
37.5°	1941.8	1642.0	1183.4	621.9	385.9	365.1	341.9	339.9	346.8	353.2	358.2
40°	2132.3	1788.5	1238.3	539.3	351.3	330.5	308.2	303.3	306.2	317.6	328.0
42.5°	2346.5	1958.2	1297.7	468.5	327.5	292.4	271.1	261.7	270.1	288.4	300.8
45°	2655.3	2196.1	1355.6	412.1	317.6	258.7	230.1	229.1	238.5	262.2	276.1
47.5°	3088.6	2503.9	1393.7	368.1	317.1	232.5	198.4	204.3	215.2	238.5	254.3
50°	3511.1	2889.3	1351.6	334.4	306.7	215.2	174.6	186.5	197.4	217.7	234.0
52.5°	3765.9	3096.6	1187.9	302.8	274.6	207.3	151.4	172.2	174.1	192.5	209.8
55°	3739.2	2962.5	909.8	253.8	227.1	195.9	127.1	155.3	156.3	170.2	185.0
57.5°	3245.5	2543.4	624.9	205.8	170.7	161.8	104.9	131.1	140.5	148.9	159.8
60°	2418.8	1855.8	278.5	167.2	108.3	109.3	89.5	98.9	113.3	123.2	132.6
62.5°	1425.3	1067.6	113.3	100.4	59.9	68.8	72.2	72.2	81.1	88.6	94.5
65°	538.8	373.5	46.0	50.5	31.2	32.2	42.5	52.4	59.4	65.8	73.7
67.5°	94.5	65.3	23.7	18.8	18.3	16.3	21.8	34.1	38.1	43.0	46.5
70°	15.8	13.4	9.9	9.4	8.4	8.9	14.3	24.2	26.7	28.2	29.7
72.5°	4.5	4.0	3.0	2.5	2.0	2.5	8.9	18.8	19.8	20.8	22.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	13.4	14.3	14.8	16.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.0	4.9	4.0
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: P631828  
 CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	583.8	573.9	568.5	565.5	565.5	561.5	557.1	555.6	562.0	562.0	572.9
5°	525.9	518.0	509.1	503.6	495.2	496.7	491.8	491.3	497.7	500.7	512.1
7.5°	485.8	475.9	470.5	467.0	462.6	460.6	456.1	454.7	458.1	463.1	474.0
10°	459.1	457.6	457.1	459.6	459.6	457.1	453.2	450.7	451.7	461.1	473.5
12.5°	466.0	469.0	470.0	474.0	475.9	474.0	471.0	472.0	478.4	495.7	514.0
15°	496.2	493.7	492.8	494.7	496.2	494.2	493.3	500.7	522.9	547.7	568.5
17.5°	528.4	512.5	505.6	505.6	506.6	505.6	506.6	521.0	557.1	581.8	597.1
20°	544.7	515.5	504.6	502.2	504.1	504.6	508.1	524.4	564.0	581.3	584.8
22.5°	539.8	503.1	490.8	488.8	490.8	492.8	496.2	510.1	547.2	556.1	554.6
25°	515.0	478.9	469.0	469.0	473.5	473.0	474.5	484.3	515.0	520.5	518.0
27.5°	483.9	449.7	441.3	446.3	450.2	449.2	449.7	458.1	480.9	482.4	479.9
30°	452.2	422.5	414.6	420.5	426.0	425.0	425.5	433.9	448.2	446.7	443.3
32.5°	420.0	398.3	392.3	395.8	404.2	403.2	405.2	414.1	419.5	413.1	409.1
35°	390.3	379.0	374.5	376.5	382.9	384.4	387.9	393.8	393.8	385.9	379.0
37.5°	362.6	361.2	358.2	355.7	361.7	366.1	371.1	378.0	368.1	356.7	350.3
40°	336.9	343.3	339.4	333.0	336.4	342.9	352.7	358.2	346.3	334.9	324.1
42.5°	313.2	324.1	322.6	314.7	317.6	323.6	334.9	339.4	325.5	312.7	302.3
45°	290.4	305.7	306.7	296.8	299.8	305.7	319.1	320.6	302.8	288.9	281.5
47.5°	270.6	287.4	287.9	280.5	281.5	289.9	302.3	302.8	282.5	269.6	260.2
50°	251.8	271.1	272.6	266.2	267.2	277.1	287.4	285.5	263.7	250.3	241.9
52.5°	229.1	255.3	258.7	255.8	259.7	267.7	274.1	267.2	241.9	228.6	221.1
55°	204.3	238.5	245.9	243.9	248.4	254.8	256.3	251.8	220.2	206.8	199.9
57.5°	175.6	196.4	209.3	205.3	208.8	215.2	219.7	216.2	192.5	182.1	176.1
60°	145.5	159.3	162.3	155.8	152.9	164.3	174.6	170.2	149.9	143.5	136.5
62.5°	106.4	122.2	124.2	115.8	112.3	124.7	133.6	129.1	106.9	99.9	94.5
65°	85.1	99.9	103.9	96.0	94.0	103.4	108.8	98.0	82.1	74.7	68.8
67.5°	55.9	67.8	78.2	77.7	73.7	76.7	72.7	63.8	52.4	48.5	44.5
70°	34.6	41.6	48.0	50.5	50.0	49.0	43.5	37.1	33.6	32.2	30.2
72.5°	26.7	33.6	38.6	40.1	40.6	39.1	34.6	28.7	25.2	23.3	21.8
75°	19.8	25.2	29.2	31.2	32.2	31.2	26.7	22.8	19.3	17.8	16.3
77.5°	6.9	8.4	10.4	11.4	10.9	10.4	9.4	9.4	7.4	6.9	5.9
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: P631828  
 CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	585.3	594.2	610.5	625.3	641.2	657.5	675.3	693.6	702.0	701.0
5°	529.4	548.7	575.4	604.6	637.2	672.3	711.4	751.5	768.8	776.2
7.5°	494.2	521.5	556.6	593.7	636.7	686.7	745.6	808.4	833.6	842.0
10°	498.7	530.4	559.5	595.7	641.7	706.5	779.7	854.4	884.1	893.5
12.5°	534.8	541.7	549.7	579.3	637.2	721.3	810.9	899.9	934.1	943.5
15°	567.5	535.3	520.5	547.7	621.4	731.7	842.5	948.9	986.5	997.4
17.5°	568.9	520.5	487.3	508.6	595.7	736.2	873.7	998.9	1039.9	1050.3
20°	550.6	504.1	461.6	462.1	560.5	735.2	899.4	1043.9	1089.9	1099.3
22.5°	523.9	484.8	440.8	425.5	522.9	733.2	927.6	1091.9	1141.9	1150.8
25°	494.2	460.1	421.0	397.8	485.3	735.2	967.2	1154.7	1209.6	1218.0
27.5°	462.1	432.9	405.7	386.9	453.7	742.6	1014.7	1234.9	1300.2	1309.1
30°	428.4	406.7	395.8	384.4	433.9	744.6	1066.2	1328.4	1411.0	1423.4
32.5°	395.3	383.4	383.9	385.9	415.1	730.7	1113.2	1432.3	1542.6	1562.4
35°	364.6	361.2	371.1	380.9	387.9	695.1	1154.2	1555.0	1705.4	1725.6
37.5°	338.4	341.4	353.7	363.6	358.2	644.6	1208.6	1708.3	1887.4	1904.7
40°	313.2	320.6	334.9	339.4	335.4	585.8	1273.9	1856.3	2045.2	2069.0
42.5°	289.9	295.4	315.6	316.6	329.0	525.9	1336.8	2015.6	2226.8	2239.2
45°	271.1	270.1	290.9	297.3	337.4	459.6	1398.1	2227.8	2464.3	2482.1
47.5°	252.8	251.8	256.8	286.0	340.9	398.3	1459.0	2538.5	2808.6	2839.3
50°	235.5	237.0	221.6	280.5	322.1	351.3	1486.7	2825.9	3121.8	3134.7
52.5°	220.2	214.7	188.0	262.7	282.0	306.7	1408.0	2956.5	3315.7	3352.3
55°	198.4	168.2	154.9	213.2	222.6	267.7	1153.2	2880.9	3332.5	3397.4
57.5°	169.7	132.1	131.6	157.3	157.3	248.4	738.6	2461.3	2871.9	2985.7
60°	130.6	102.4	108.8	109.3	100.9	181.1	414.6	1783.0	2123.4	2236.7
62.5°	93.0	78.2	82.1	65.3	57.9	90.5	198.9	1026.6	1310.6	1326.4
65°	62.3	52.9	43.0	36.1	35.6	38.6	82.1	371.1	451.2	509.1
67.5°	41.1	32.2	22.8	22.8	25.7	25.7	31.2	61.3	86.1	78.7
70°	26.7	22.3	14.3	13.9	16.8	16.8	15.8	16.8	17.8	17.8
72.5°	19.8	16.8	8.4	7.4	9.4	9.9	8.9	8.4	8.4	8.4
75°	14.8	11.9	4.9	3.5	4.5	5.9	4.9	3.5	3.5	3.0
77.5°	5.9	4.5	2.0	1.5	2.5	3.5	3.0	1.5	1.0	1.0
80°	0.5	1.0	1.0	1.0	1.5	2.0	2.5	1.0	0.5	0.5
82.5°	0.0	0.5	0.5	0.5	1.0	1.5	2.0	1.0	0.5	0.5
85°	0.0	0.0	0.0	0.0	1.0	1.5	1.0	0.5	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.5	1.0	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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