

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: P639746

Luminaire Tested: GWS-SA5C-740-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639746  
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-SA5C-740-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

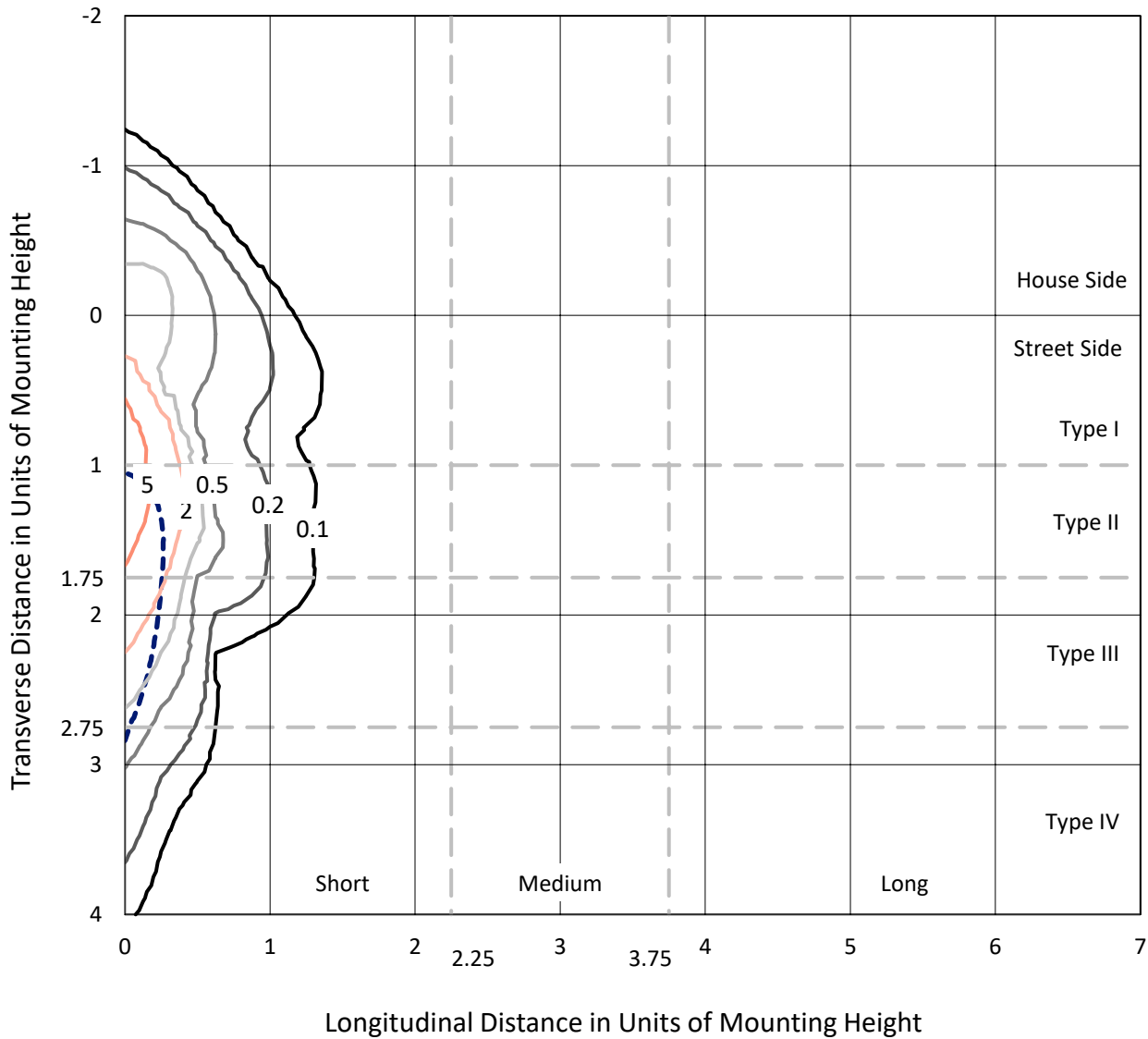
Lumens per Lamp: N/A  
Luminaire Lumens: 14417.7 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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: P639746  
 CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

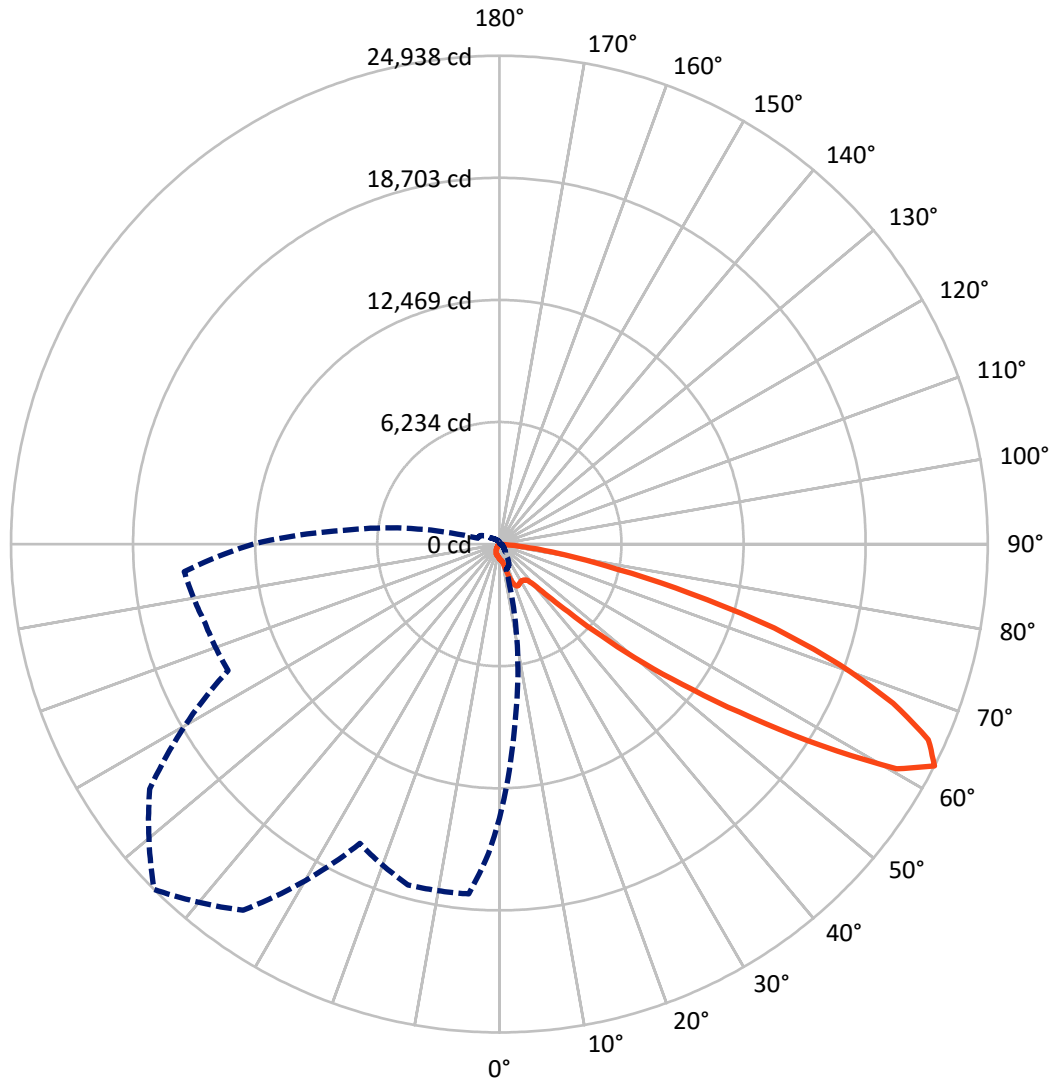
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P639746  
CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P639746  
 CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

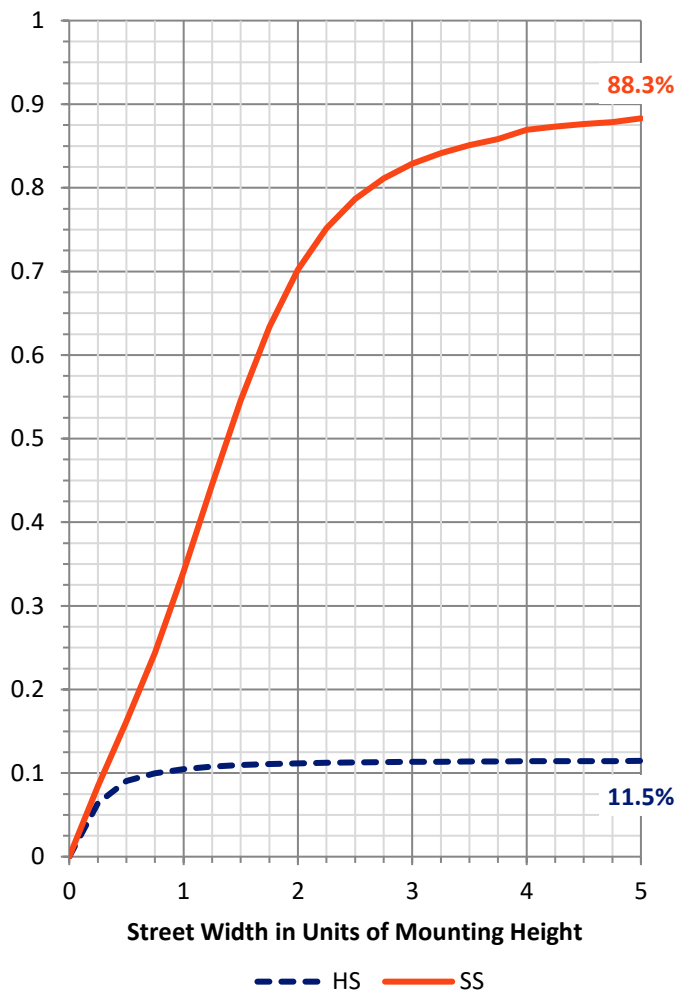
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1675.1	0.0	1675.1
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	12742.5	0.0	12742.5
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	14417.7	0.0	14417.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	0.4
10°-20°	221.3	1.5
20°-30°	500.0	3.5
30°-40°	861.3	6.0
40°-50°	1624.8	11.3
50°-60°	3627.6	25.2
60°-70°	4851.9	33.7
70°-80°	2433.1	16.9
80°-90°	233.2	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°	14417.7	100.0
0°-180°	14417.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639746

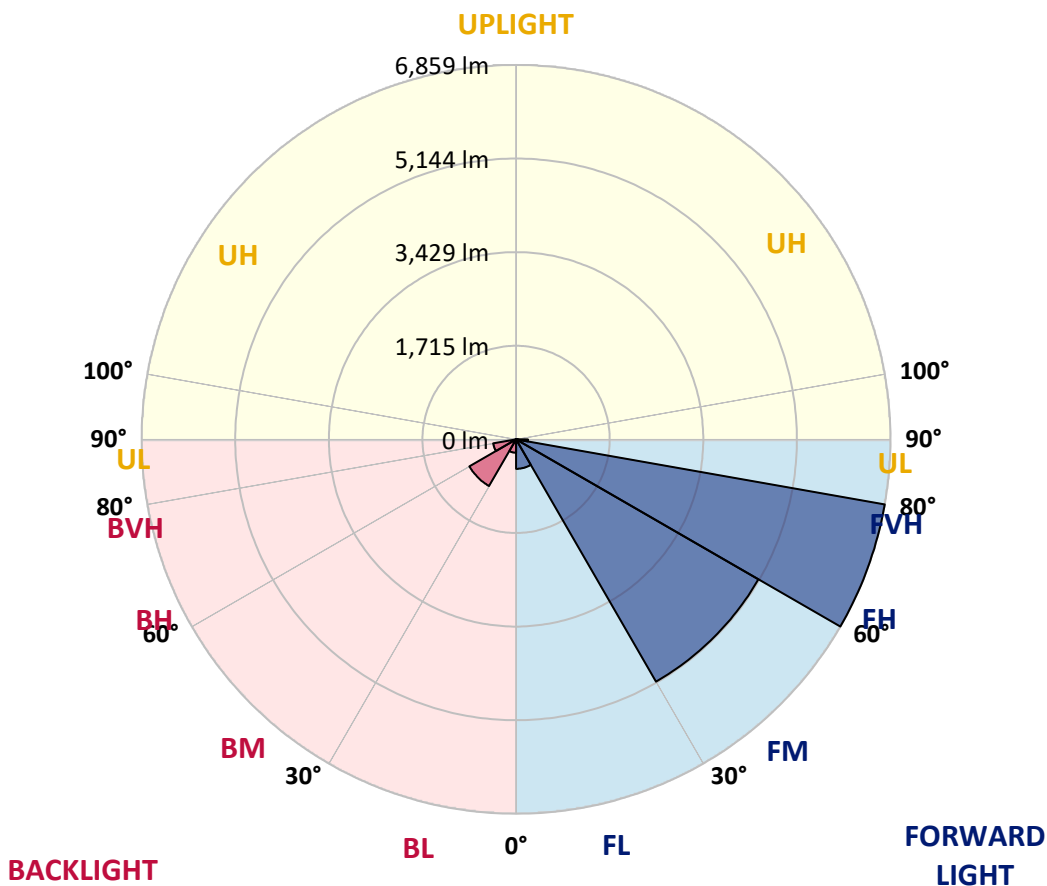
CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.0	3.7			
FM (30°-60°)	5125.9	35.6			
FH (60°-80°)	6859.0	47.6			G3/7500
FVH (80°-90°)	217.7	1.5			G2/225
BL (0°-30°)	245.9	1.7	B1/500		
BM (30°-60°)	987.8	6.9	B1/1000		
BH (60°-80°)	426.0	3.0	B1/500		G1/500
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





REPORT NUMBER: P639746  
 CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	739.2	737.5	734.1	723.8	715.3	710.2	699.9	699.9	698.2	694.8	688.0
5°	715.3	708.5	701.6	682.9	662.4	650.4	636.8	635.1	635.1	631.6	629.9
7.5°	677.7	670.9	662.4	631.6	612.9	600.9	589.0	587.3	582.1	582.1	582.1
10°	657.2	647.0	633.3	599.2	580.4	570.2	561.6	556.5	553.1	548.0	546.3
12.5°	701.6	682.9	653.8	592.4	566.8	553.1	542.9	539.5	529.2	522.4	517.3
15°	839.9	793.8	735.8	607.7	561.6	541.2	527.5	520.7	512.1	500.2	491.7
17.5°	1067.0	1000.4	903.1	657.2	556.5	530.9	513.8	501.9	489.9	476.3	466.0
20°	1381.1	1282.1	1166.0	747.7	556.5	519.0	498.5	483.1	466.0	450.7	438.7
22.5°	1780.5	1681.5	1483.5	901.4	563.4	503.6	479.7	459.2	438.7	425.1	411.4
25°	2227.8	2087.8	1903.4	1087.4	582.1	483.1	457.5	437.0	418.2	401.2	385.8
27.5°	2726.3	2574.4	2328.5	1352.0	623.1	462.6	433.6	414.8	397.8	380.7	360.2
30°	3185.5	3095.0	2844.1	1669.6	689.7	449.0	414.8	397.8	380.7	358.5	339.7
32.5°	3736.9	3576.4	3369.9	2031.5	778.5	435.3	399.5	375.6	361.9	341.4	320.9
35°	4291.7	4155.2	3883.7	2477.0	877.5	421.7	380.7	358.5	346.5	322.6	300.5
37.5°	4863.6	4832.9	4564.9	2970.4	974.8	406.3	358.5	344.8	332.9	305.6	280.0
40°	5427.0	5370.6	5123.1	3533.8	1034.5	389.2	339.7	331.2	317.5	286.8	257.8
42.5°	5966.4	5923.7	5683.0	4073.2	1026.0	373.9	320.9	310.7	300.5	269.7	233.9
45°	6628.8	6558.8	6254.9	4472.7	938.9	390.9	302.2	285.1	283.4	254.4	210.0
47.5°	7868.2	7637.7	7122.1	4780.0	851.9	435.3	281.7	261.2	273.1	239.0	186.1
50°	9604.3	9332.9	8586.9	5019.0	850.2	493.4	278.3	239.0	264.6	227.0	165.6
52.5°	11349.0	10871.0	9964.5	5147.0	913.3	536.0	309.0	216.8	254.4	215.1	150.2
55°	13020.3	12028.4	10541.5	4723.6	962.8	582.1	365.3	204.9	235.6	201.4	141.7
57.5°	14613.0	12958.8	10792.5	3736.9	1128.4	600.9	399.5	210.0	208.3	184.4	134.9
60°	14831.5	12914.4	10285.5	2173.2	1244.5	568.5	385.8	233.9	182.7	163.9	122.9
62.5°	14005.3	12055.7	9129.7	1355.5	1155.7	556.5	343.1	266.3	165.6	145.1	107.5
65°	12750.5	10708.8	7612.1	874.1	875.8	618.0	300.5	261.2	155.3	128.0	92.2
67.5°	10789.1	8962.4	5997.1	585.5	495.1	527.5	262.9	179.2	151.9	109.3	71.7
70°	7875.0	6379.5	3904.2	390.9	295.3	421.7	220.2	128.0	143.4	90.5	51.2
72.5°	5756.4	4286.6	2180.0	256.1	167.3	245.8	162.2	92.2	111.0	66.6	35.8
75°	4143.2	2949.9	1244.5	163.9	111.0	134.9	105.8	63.2	71.7	52.9	32.4
77.5°	1993.9	1437.4	565.1	90.5	75.1	68.3	56.3	39.3	44.4	47.8	29.0
80°	75.1	56.3	42.7	44.4	47.8	30.7	25.6	20.5	25.6	32.4	15.4
82.5°	0.0	0.0	0.0	5.1	6.8	8.5	10.2	8.5	10.2	11.9	1.7
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: P639746  
 CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	693.1	689.7	693.1	696.5	699.9	703.3	698.2	701.6	705.0	696.5	699.9
5°	638.5	636.8	647.0	652.1	659.0	662.4	659.0	659.0	657.2	647.0	647.0
7.5°	590.7	592.4	600.9	612.9	621.4	626.5	623.1	621.4	616.3	600.9	600.9
10°	554.8	554.8	568.5	578.7	590.7	595.8	592.4	587.3	582.1	566.8	565.1
12.5°	525.8	525.8	536.0	553.1	566.8	573.6	571.9	565.1	556.5	541.2	539.5
15°	498.5	496.8	512.1	527.5	546.3	554.8	551.4	546.3	530.9	517.3	513.8
17.5°	471.2	469.5	483.1	503.6	524.1	536.0	534.3	522.4	508.7	491.7	488.2
20°	443.9	440.4	457.5	478.0	498.5	510.4	507.0	496.8	479.7	462.6	459.2
22.5°	416.5	414.8	426.8	443.9	462.6	472.9	471.2	462.6	445.6	430.2	430.2
25°	385.8	385.8	394.3	406.3	420.0	425.1	426.8	423.4	413.1	404.6	404.6
27.5°	360.2	355.1	358.5	361.9	368.7	377.3	377.3	380.7	382.4	379.0	380.7
30°	339.7	331.2	326.1	319.2	315.8	319.2	322.6	334.6	346.5	353.4	356.8
32.5°	315.8	305.6	291.9	273.1	261.2	257.8	268.0	290.2	312.4	327.8	336.3
35°	291.9	278.3	252.7	225.3	210.0	204.9	216.8	242.4	274.8	302.2	314.1
37.5°	268.0	249.2	213.4	181.0	163.9	160.5	172.4	199.7	237.3	274.8	290.2
40°	240.7	218.5	175.8	141.7	128.0	124.6	134.9	162.2	201.4	244.1	268.0
42.5°	213.4	186.1	141.7	112.7	99.0	99.0	112.7	133.2	169.0	215.1	244.1
45°	186.1	157.1	116.1	90.5	81.9	83.6	92.2	112.7	141.7	189.5	216.8
47.5°	160.5	134.9	95.6	75.1	68.3	70.0	80.2	97.3	121.2	163.9	192.9
50°	138.3	114.4	83.6	63.2	58.0	61.5	71.7	87.1	107.5	145.1	169.0
52.5°	124.6	102.4	76.8	54.6	51.2	54.6	64.9	78.5	97.3	128.0	151.9
55°	117.8	100.7	76.8	49.5	44.4	47.8	58.0	71.7	87.1	116.1	136.6
57.5°	116.1	104.1	81.9	44.4	37.6	41.0	51.2	64.9	80.2	105.8	122.9
60°	109.3	99.0	80.2	35.8	29.0	34.1	42.7	56.3	73.4	99.0	114.4
62.5°	95.6	87.1	70.0	29.0	22.2	25.6	35.8	49.5	66.6	90.5	107.5
65°	78.5	70.0	54.6	18.8	13.7	17.1	27.3	42.7	58.0	81.9	97.3
67.5°	58.0	49.5	37.6	11.9	6.8	11.9	22.2	35.8	52.9	73.4	88.8
70°	35.8	29.0	20.5	6.8	5.1	10.2	20.5	34.1	47.8	68.3	83.6
72.5°	20.5	13.7	8.5	3.4	5.1	10.2	20.5	34.1	46.1	64.9	78.5
75°	15.4	8.5	3.4	1.7	3.4	8.5	18.8	30.7	44.4	61.5	75.1
77.5°	10.2	5.1	1.7	0.0	1.7	6.8	17.1	29.0	41.0	58.0	71.7
80°	1.7	0.0	0.0	0.0	0.0	5.1	15.4	25.6	37.6	51.2	63.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.7	11.9	22.2	32.4	42.7	51.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	17.1	25.6	32.4	35.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	17.1	20.5	23.9
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: P639746

CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	698.2	708.5	708.5	715.3	723.8	739.2	747.7	759.7	768.2	776.7	780.2
5°	645.3	647.0	648.7	652.1	662.4	679.4	694.8	713.6	735.8	752.8	763.1
7.5°	600.9	600.9	600.9	606.0	616.3	628.2	643.6	669.2	694.8	715.3	732.4
10°	563.4	568.5	570.2	578.7	590.7	606.0	623.1	645.3	674.3	701.6	732.4
12.5°	539.5	544.6	553.1	561.6	573.6	590.7	609.4	638.5	698.2	754.6	819.4
15°	517.3	524.1	534.3	546.3	559.9	578.7	599.2	659.0	798.9	904.8	1007.2
17.5°	493.4	503.6	517.3	529.2	546.3	566.8	592.4	708.5	983.3	1159.1	1333.3
20°	462.6	476.3	491.7	510.4	530.9	554.8	592.4	810.9	1249.6	1502.3	1732.7
22.5°	433.6	447.3	466.0	489.9	513.8	537.7	600.9	966.2	1592.8	1912.0	2203.9
25°	409.7	426.8	445.6	466.0	493.4	520.7	621.4	1184.7	2005.9	2417.3	2623.9
27.5°	387.5	408.0	426.8	443.9	467.8	498.5	667.5	1476.7	2494.1	2912.4	3074.5
30°	365.3	389.2	408.0	425.1	449.0	481.4	737.5	1848.8	3037.0	3443.3	3460.4
32.5°	346.5	368.7	390.9	408.0	430.2	467.8	834.8	2284.1	3593.5	3986.1	3825.7
35°	326.1	351.7	372.2	390.9	414.8	455.8	947.5	2753.6	4155.2	4484.6	4189.3
37.5°	305.6	334.6	360.2	373.9	397.8	443.9	1029.4	3243.5	4728.7	4971.2	4508.5
40°	286.8	319.2	348.3	361.9	373.9	428.5	1041.3	3745.4	5310.9	5450.9	4809.0
42.5°	266.3	302.2	327.8	346.5	356.8	418.2	969.6	4168.8	5799.1	5928.9	5201.6
45°	244.1	286.8	307.3	320.9	341.4	425.1	877.5	4496.6	6357.3	6581.0	5848.6
47.5°	221.9	269.7	286.8	297.0	324.4	466.0	843.3	4715.1	7277.5	7741.8	6939.5
50°	201.4	254.4	273.1	271.4	320.9	519.0	880.9	4880.7	8660.3	9206.5	8434.9
52.5°	179.2	237.3	259.5	252.7	346.5	559.9	956.0	5012.1	9723.8	10923.9	10444.2
55°	160.5	218.5	239.0	237.3	394.3	590.7	1014.0	4319.0	10164.2	12520.1	12707.9
57.5°	146.8	198.0	215.1	244.1	425.1	590.7	1172.8	3066.0	10172.8	13694.6	15712.4
60°	134.9	179.2	191.2	268.0	413.1	559.9	1160.8	1877.8	9375.6	13614.4	17310.3
62.5°	124.6	162.2	177.5	274.8	365.3	554.8	1048.2	1164.3	7996.2	12578.1	16151.2
65°	116.1	148.5	170.7	252.7	331.2	594.1	706.8	836.5	6485.4	11396.8	14821.3
67.5°	107.5	136.6	181.0	206.6	300.5	530.9	510.4	594.1	5090.7	10101.1	13600.7
70°	100.7	129.7	191.2	169.0	262.9	414.8	361.9	450.7	3897.4	8428.1	11881.6
72.5°	95.6	121.2	160.5	133.2	213.4	320.9	252.7	327.8	2547.0	6579.3	9686.3
75°	90.5	111.0	117.8	107.5	158.8	210.0	191.2	220.2	1517.6	4809.0	7349.2
77.5°	88.8	104.1	95.6	87.1	107.5	124.6	145.1	148.5	740.9	2405.3	3851.3
80°	78.5	93.9	81.9	71.7	73.4	81.9	107.5	99.0	169.0	611.2	1027.7
82.5°	61.5	73.4	68.3	59.7	59.7	59.7	71.7	66.6	54.6	274.8	464.3
85°	42.7	51.2	51.2	47.8	46.1	46.1	44.4	42.7	15.4	17.1	25.6
87.5°	29.0	35.8	37.6	35.8	30.7	27.3	23.9	20.5	6.8	0.0	3.4
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: P639746  
 CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	792.1	797.2	797.2	790.4	785.3	771.6	758.0	744.3	740.9	739.2
5°	792.1	812.6	822.8	821.1	809.2	787.0	758.0	727.2	718.7	715.3
7.5°	780.2	819.4	850.2	855.3	833.1	793.8	740.9	694.8	682.9	677.7
10°	807.5	884.3	945.7	954.3	928.7	851.9	766.5	688.0	669.2	657.2
12.5°	954.3	1080.6	1155.7	1191.6	1142.1	1044.8	903.1	763.1	720.4	701.6
15°	1251.3	1430.6	1574.0	1574.0	1527.9	1355.5	1176.2	949.2	891.1	839.9
17.5°	1632.0	1857.4	1983.7	1970.0	1900.0	1778.8	1563.7	1237.7	1119.9	1067.0
20°	2065.6	2200.5	2229.5	2221.0	2190.2	2120.3	1971.7	1621.8	1463.0	1381.1
22.5°	2441.2	2405.3	2362.7	2328.5	2320.0	2340.5	2320.0	2050.3	1925.6	1780.5
25°	2695.6	2492.4	2364.4	2302.9	2331.9	2449.7	2577.8	2477.0	2378.0	2227.8
27.5°	2833.8	2482.2	2297.8	2234.6	2284.1	2451.4	2729.7	2900.4	2798.0	2726.3
30°	2908.9	2473.6	2255.1	2193.7	2268.8	2478.8	2835.5	3296.5	3299.9	3185.5
32.5°	3016.5	2528.3	2263.7	2207.3	2308.0	2560.7	2968.7	3699.3	3798.4	3736.9
35°	3137.7	2611.9	2302.9	2251.7	2376.3	2670.0	3117.2	4105.6	4312.2	4291.7
37.5°	3252.1	2705.8	2395.1	2345.6	2480.5	2763.8	3260.6	4505.1	4791.9	4863.6
40°	3371.6	2837.2	2678.5	2726.3	2801.4	2912.4	3388.7	4851.7	5319.4	5427.0
42.5°	3653.3	3293.1	3535.5	3625.9	3636.2	3407.4	3668.6	5295.5	5838.4	5966.4
45°	4281.5	4103.9	4798.7	4926.8	4860.2	4167.1	4342.9	5935.7	6563.9	6628.8
47.5°	5075.3	5157.2	6528.1	6970.2	6570.7	5063.3	5160.7	7282.6	7892.1	7868.2
50°	6000.6	6388.1	8491.3	9534.3	8578.3	6227.6	6103.0	8938.5	9677.7	9604.3
52.5°	7094.8	7818.7	10850.5	12332.3	11427.5	7537.0	7485.8	11132.2	11582.9	11349.0
55°	8472.5	9199.7	13564.8	15635.6	14348.4	9134.8	9310.7	13675.8	13762.9	13020.3
57.5°	10527.9	11000.7	16764.0	19423.7	17397.4	11306.3	12581.5	17061.1	16019.7	14613.0
60°	14259.7	13317.3	19855.6	23298.9	20640.9	14360.4	16895.5	19066.9	16770.8	14831.5
62.5°	15558.8	15283.9	21791.5	24937.7	22822.6	16868.1	18017.0	17930.0	15797.8	14005.3
65°	13590.5	14794.0	21445.0	24072.2	22542.6	16455.0	16168.2	16675.2	14701.8	12750.5
67.5°	12554.2	13643.4	20132.2	21684.0	20990.9	15053.5	14411.6	14273.3	12342.5	10789.1
70°	11509.5	12588.4	18228.7	18421.6	18099.0	12769.3	11926.0	10999.0	9225.3	7875.0
72.5°	10253.0	10847.1	15587.8	14672.8	14307.5	10029.4	9851.8	8283.0	6915.6	5756.4
75°	8941.9	8769.5	12153.1	10070.4	10343.5	7803.3	8320.5	6082.5	5066.8	4143.2
77.5°	6504.2	6376.1	8139.6	6116.6	6773.9	5111.1	4592.2	2427.5	2311.5	1993.9
80°	3629.4	4375.4	4395.9	3427.9	4276.4	3332.3	1148.9	80.2	51.2	75.1
82.5°	1686.6	1881.3	2383.2	1589.3	2439.5	1650.8	237.3	0.0	0.0	0.0
85°	546.3	798.9	669.2	233.9	590.7	558.2	39.3	0.0	0.0	0.0
87.5°	32.4	66.6	17.1	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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