

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: P631276

Luminaire Tested: GWS-SA1F-735-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631276  
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-SA1F-735-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

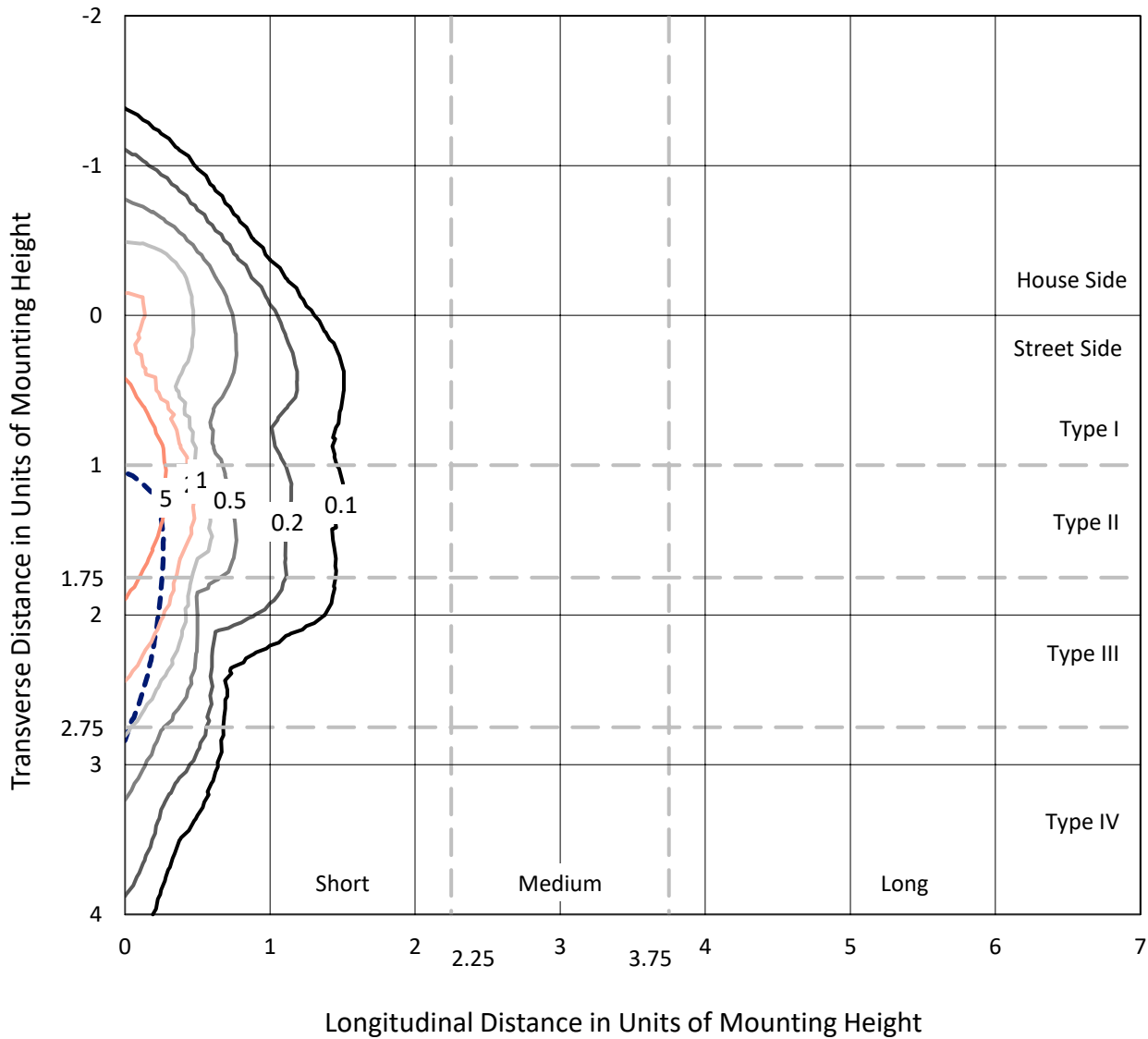
Lumens per Lamp: N/A  
Luminaire Lumens: 5031.1 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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: P631276  
 CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

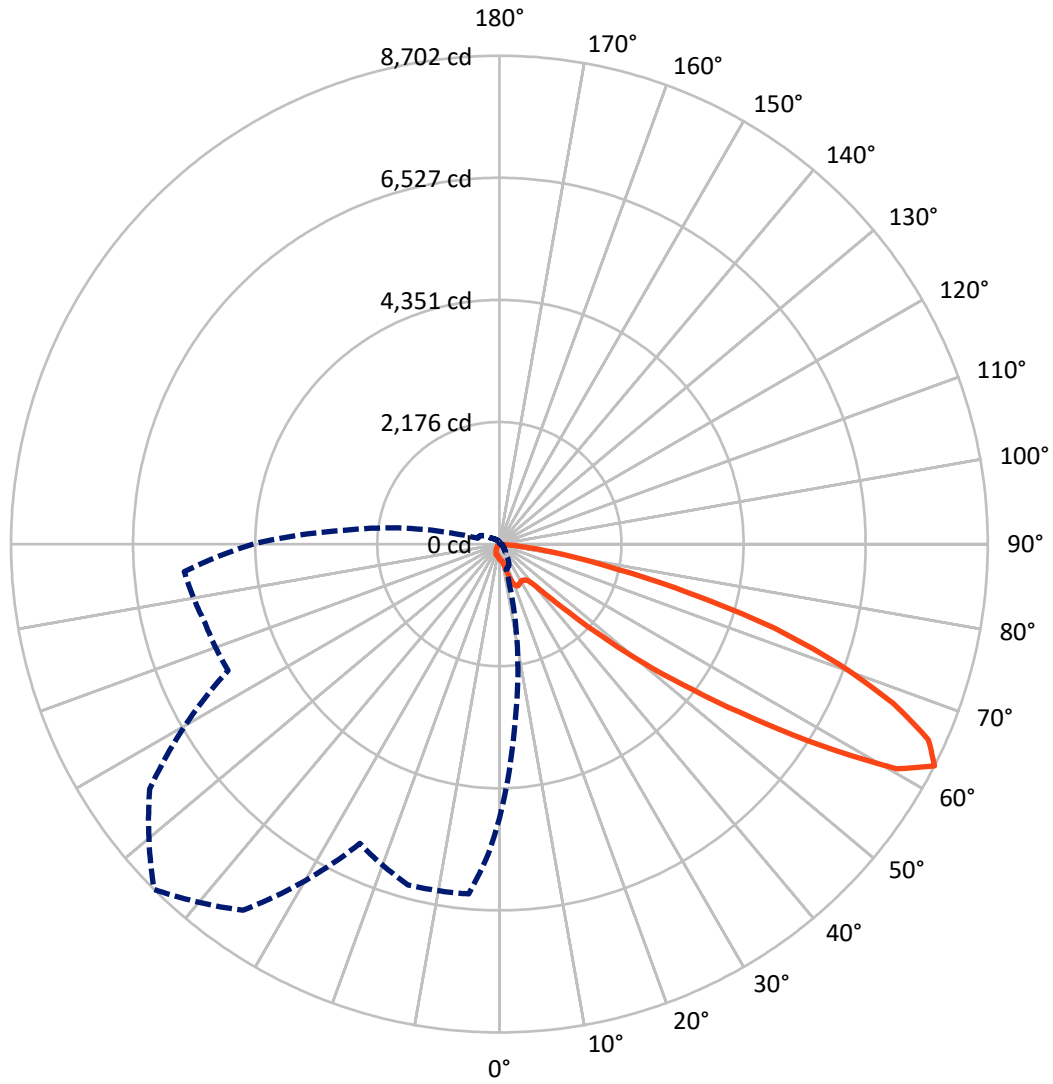
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - N/A

REPORT NUMBER: P631276  
CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P631276

CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	584.6	0.0	584.6
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	4446.5	0.0	4446.5
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	5031.1	0.0	5031.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.5	0.4
10°-20°	77.2	1.5
20°-30°	174.5	3.5
30°-40°	300.6	6.0
40°-50°	567.0	11.3
50°-60°	1265.9	25.2
60°-70°	1693.1	33.7
70°-80°	849.0	16.9
80°-90°	81.4	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°	5031.1	100.0
0°-180°	5031.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631276

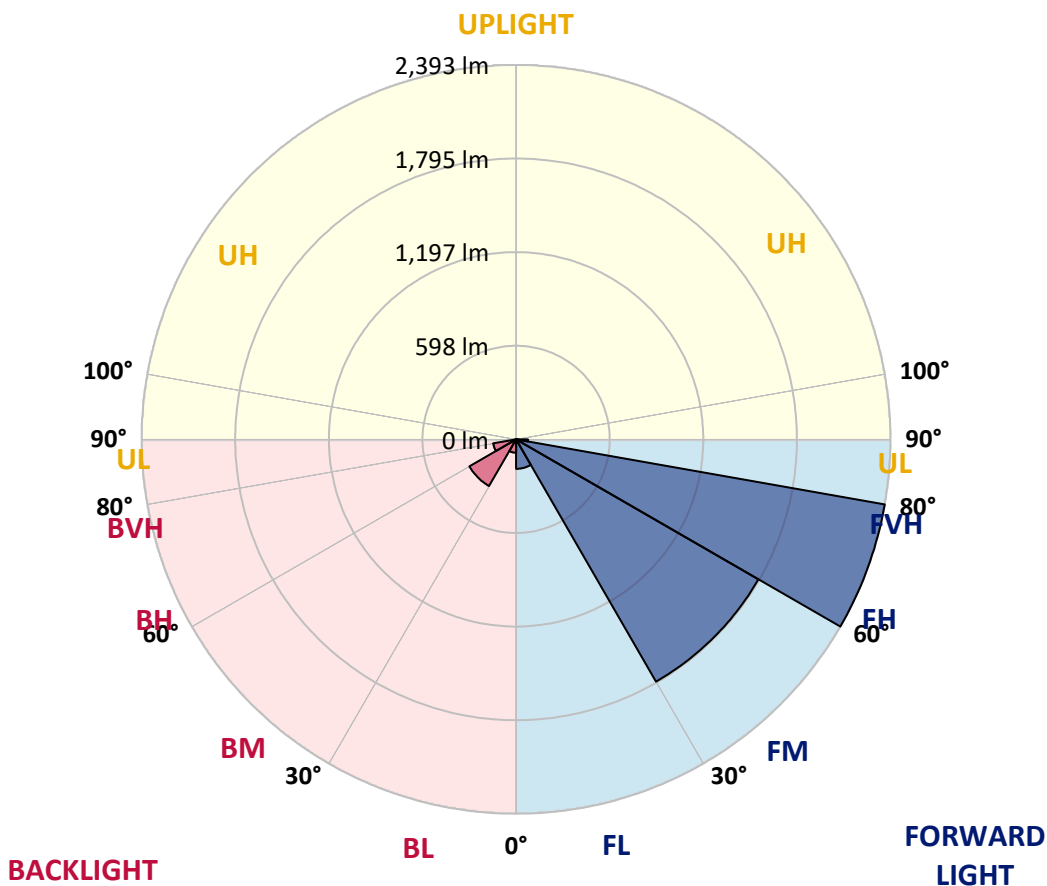
CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.4	3.7			
FM (30°-60°)	1788.7	35.6			
FH (60°-80°)	2393.5	47.6			G2/5000
FVH (80°-90°)	76.0	1.5			G1/100
BL (0°-30°)	85.8	1.7	B0/110		
BM (30°-60°)	344.7	6.9	B1/1000		
BH (60°-80°)	148.7	3.0	B1/500		G1/500
BVH (80°-90°)	5.4	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: P631276

CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	257.9	257.3	256.2	252.6	249.6	247.8	244.2	244.2	243.6	242.5	240.1
5°	249.6	247.2	244.8	238.3	231.1	227.0	222.2	221.6	221.6	220.4	219.8
7.5°	236.5	234.1	231.1	220.4	213.9	209.7	205.5	204.9	203.1	203.1	203.1
10°	229.3	225.8	221.0	209.1	202.5	199.0	196.0	194.2	193.0	191.2	190.6
12.5°	244.8	238.3	228.2	206.7	197.8	193.0	189.4	188.2	184.7	182.3	180.5
15°	293.1	277.0	256.8	212.1	196.0	188.8	184.1	181.7	178.7	174.5	171.6
17.5°	372.3	349.1	315.1	229.3	194.2	185.3	179.3	175.1	171.0	166.2	162.6
20°	481.9	447.4	406.9	260.9	194.2	181.1	173.9	168.6	162.6	157.3	153.1
22.5°	621.3	586.8	517.7	314.5	196.6	175.7	167.4	160.2	153.1	148.3	143.6
25°	777.4	728.6	664.2	379.5	203.1	168.6	159.6	152.5	145.9	140.0	134.6
27.5°	951.3	898.3	812.5	471.8	217.4	161.4	151.3	144.8	138.8	132.8	125.7
30°	1111.6	1080.0	992.4	582.6	240.7	156.7	144.8	138.8	132.8	125.1	118.5
32.5°	1304.0	1248.0	1175.9	708.9	271.6	151.9	139.4	131.1	126.3	119.1	112.0
35°	1497.6	1450.0	1355.2	864.4	306.2	147.1	132.8	125.1	120.9	112.6	104.8
37.5°	1697.2	1686.4	1592.9	1036.5	340.1	141.8	125.1	120.3	116.2	106.6	97.7
40°	1893.8	1874.1	1787.7	1233.1	361.0	135.8	118.5	115.6	110.8	100.1	90.0
42.5°	2082.0	2067.1	1983.1	1421.4	358.0	130.5	112.0	108.4	104.8	94.1	81.6
45°	2313.1	2288.7	2182.7	1560.8	327.6	136.4	105.4	99.5	98.9	88.8	73.3
47.5°	2745.6	2665.2	2485.3	1668.0	297.3	151.9	98.3	91.1	95.3	83.4	64.9
50°	3351.5	3256.7	2996.4	1751.4	296.7	172.2	97.1	83.4	92.3	79.2	57.8
52.5°	3960.3	3793.5	3477.1	1796.1	318.7	187.1	107.8	75.7	88.8	75.1	52.4
55°	4543.5	4197.4	3678.5	1648.3	336.0	203.1	127.5	71.5	82.2	70.3	49.4
57.5°	5099.3	4522.0	3766.1	1304.0	393.8	209.7	139.4	73.3	72.7	64.3	47.1
60°	5175.5	4506.5	3589.1	758.3	434.3	198.4	134.6	81.6	63.7	57.2	42.9
62.5°	4887.2	4206.9	3185.8	473.0	403.3	194.2	119.7	92.9	57.8	50.6	37.5
65°	4449.3	3736.9	2656.3	305.0	305.6	215.6	104.8	91.1	54.2	44.7	32.2
67.5°	3764.9	3127.5	2092.7	204.3	172.8	184.1	91.7	62.5	53.0	38.1	25.0
70°	2748.0	2226.2	1362.4	136.4	103.1	147.1	76.8	44.7	50.0	31.6	17.9
72.5°	2008.7	1495.8	760.7	89.4	58.4	85.8	56.6	32.2	38.7	23.2	12.5
75°	1445.8	1029.4	434.3	57.2	38.7	47.1	36.9	22.0	25.0	18.5	11.3
77.5°	695.8	501.6	197.2	31.6	26.2	23.8	19.7	13.7	15.5	16.7	10.1
80°	26.2	19.7	14.9	15.5	16.7	10.7	8.9	7.1	8.9	11.3	5.4
82.5°	0.0	0.0	0.0	1.8	2.4	3.0	3.6	3.0	3.6	4.2	0.6
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: P631276

CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	241.9	240.7	241.9	243.0	244.2	245.4	243.6	244.8	246.0	243.0	244.2
5°	222.8	222.2	225.8	227.6	229.9	231.1	229.9	229.9	229.3	225.8	225.8
7.5°	206.1	206.7	209.7	213.9	216.8	218.6	217.4	216.8	215.1	209.7	209.7
10°	193.6	193.6	198.4	201.9	206.1	207.9	206.7	204.9	203.1	197.8	197.2
12.5°	183.5	183.5	187.1	193.0	197.8	200.2	199.6	197.2	194.2	188.8	188.2
15°	173.9	173.4	178.7	184.1	190.6	193.6	192.4	190.6	185.3	180.5	179.3
17.5°	164.4	163.8	168.6	175.7	182.9	187.1	186.5	182.3	177.5	171.6	170.4
20°	154.9	153.7	159.6	166.8	173.9	178.1	176.9	173.4	167.4	161.4	160.2
22.5°	145.4	144.8	148.9	154.9	161.4	165.0	164.4	161.4	155.5	150.1	150.1
25°	134.6	134.6	137.6	141.8	146.5	148.3	148.9	147.7	144.2	141.2	141.2
27.5°	125.7	123.9	125.1	126.3	128.7	131.7	131.7	132.8	133.4	132.2	132.8
30°	118.5	115.6	113.8	111.4	110.2	111.4	112.6	116.8	120.9	123.3	124.5
32.5°	110.2	106.6	101.9	95.3	91.1	90.0	93.5	101.3	109.0	114.4	117.4
35°	101.9	97.1	88.2	78.6	73.3	71.5	75.7	84.6	95.9	105.4	109.6
37.5°	93.5	87.0	74.5	63.1	57.2	56.0	60.2	69.7	82.8	95.9	101.3
40°	84.0	76.3	61.4	49.4	44.7	43.5	47.1	56.6	70.3	85.2	93.5
42.5°	74.5	64.9	49.4	39.3	34.6	34.6	39.3	46.5	59.0	75.1	85.2
45°	64.9	54.8	40.5	31.6	28.6	29.2	32.2	39.3	49.4	66.1	75.7
47.5°	56.0	47.1	33.4	26.2	23.8	24.4	28.0	34.0	42.3	57.2	67.3
50°	48.3	39.9	29.2	22.0	20.3	21.4	25.0	30.4	37.5	50.6	59.0
52.5°	43.5	35.7	26.8	19.1	17.9	19.1	22.6	27.4	34.0	44.7	53.0
55°	41.1	35.1	26.8	17.3	15.5	16.7	20.3	25.0	30.4	40.5	47.7
57.5°	40.5	36.3	28.6	15.5	13.1	14.3	17.9	22.6	28.0	36.9	42.9
60°	38.1	34.6	28.0	12.5	10.1	11.9	14.9	19.7	25.6	34.6	39.9
62.5°	33.4	30.4	24.4	10.1	7.7	8.9	12.5	17.3	23.2	31.6	37.5
65°	27.4	24.4	19.1	6.6	4.8	6.0	9.5	14.9	20.3	28.6	34.0
67.5°	20.3	17.3	13.1	4.2	2.4	4.2	7.7	12.5	18.5	25.6	31.0
70°	12.5	10.1	7.1	2.4	1.8	3.6	7.1	11.9	16.7	23.8	29.2
72.5°	7.1	4.8	3.0	1.2	1.8	3.6	7.1	11.9	16.1	22.6	27.4
75°	5.4	3.0	1.2	0.6	1.2	3.0	6.6	10.7	15.5	21.4	26.2
77.5°	3.6	1.8	0.6	0.0	0.6	2.4	6.0	10.1	14.3	20.3	25.0
80°	0.6	0.0	0.0	0.0	0.0	1.8	5.4	8.9	13.1	17.9	22.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	4.2	7.7	11.3	14.9	17.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.0	8.9	11.3	12.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	7.1	8.3
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: P631276

CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	243.6	247.2	247.2	249.6	252.6	257.9	260.9	265.1	268.1	271.0	272.2
5°	225.2	225.8	226.4	227.6	231.1	237.1	242.5	249.0	256.8	262.7	266.3
7.5°	209.7	209.7	209.7	211.5	215.1	219.2	224.6	233.5	242.5	249.6	255.6
10°	196.6	198.4	199.0	201.9	206.1	211.5	217.4	225.2	235.3	244.8	255.6
12.5°	188.2	190.0	193.0	196.0	200.2	206.1	212.7	222.8	243.6	263.3	285.9
15°	180.5	182.9	186.5	190.6	195.4	201.9	209.1	229.9	278.8	315.7	351.5
17.5°	172.2	175.7	180.5	184.7	190.6	197.8	206.7	247.2	343.1	404.5	465.2
20°	161.4	166.2	171.6	178.1	185.3	193.6	206.7	283.0	436.1	524.2	604.6
22.5°	151.3	156.1	162.6	171.0	179.3	187.6	209.7	337.2	555.8	667.2	769.1
25°	143.0	148.9	155.5	162.6	172.2	181.7	216.8	413.4	700.0	843.5	915.6
27.5°	135.2	142.4	148.9	154.9	163.2	173.9	232.9	515.3	870.3	1016.3	1072.9
30°	127.5	135.8	142.4	148.3	156.7	168.0	257.3	645.2	1059.8	1201.5	1207.5
32.5°	120.9	128.7	136.4	142.4	150.1	163.2	291.3	797.1	1254.0	1391.0	1335.0
35°	113.8	122.7	129.9	136.4	144.8	159.1	330.6	960.9	1450.0	1564.9	1461.9
37.5°	106.6	116.8	125.7	130.5	138.8	154.9	359.2	1131.8	1650.1	1734.7	1573.3
40°	100.1	111.4	121.5	126.3	130.5	149.5	363.4	1307.0	1853.2	1902.1	1678.1
42.5°	92.9	105.4	114.4	120.9	124.5	145.9	338.4	1454.7	2023.6	2068.9	1815.1
45°	85.2	100.1	107.2	112.0	119.1	148.3	306.2	1569.1	2218.4	2296.5	2040.9
47.5°	77.4	94.1	100.1	103.7	113.2	162.6	294.3	1645.3	2539.5	2701.5	2421.6
50°	70.3	88.8	95.3	94.7	112.0	181.1	307.4	1703.1	3022.0	3212.7	2943.4
52.5°	62.5	82.8	90.5	88.2	120.9	195.4	333.6	1749.0	3393.2	3811.9	3644.5
55°	56.0	76.3	83.4	82.8	137.6	206.1	353.9	1507.1	3546.8	4368.9	4434.4
57.5°	51.2	69.1	75.1	85.2	148.3	206.1	409.3	1069.9	3549.8	4778.8	5482.9
60°	47.1	62.5	66.7	93.5	144.2	195.4	405.1	655.3	3271.6	4750.8	6040.5
62.5°	43.5	56.6	62.0	95.9	127.5	193.6	365.8	406.3	2790.3	4389.2	5636.0
65°	40.5	51.8	59.6	88.2	115.6	207.3	246.6	291.9	2263.1	3976.9	5171.9
67.5°	37.5	47.7	63.1	72.1	104.8	185.3	178.1	207.3	1776.4	3524.8	4746.0
70°	35.1	45.3	66.7	59.0	91.7	144.8	126.3	157.3	1360.0	2941.0	4146.1
72.5°	33.4	42.3	56.0	46.5	74.5	112.0	88.2	114.4	888.8	2295.9	3380.0
75°	31.6	38.7	41.1	37.5	55.4	73.3	66.7	76.8	529.6	1678.1	2564.5
77.5°	31.0	36.3	33.4	30.4	37.5	43.5	50.6	51.8	258.5	839.4	1343.9
80°	27.4	32.8	28.6	25.0	25.6	28.6	37.5	34.6	59.0	213.3	358.6
82.5°	21.4	25.6	23.8	20.8	20.8	20.8	25.0	23.2	19.1	95.9	162.0
85°	14.9	17.9	17.9	16.7	16.1	16.1	15.5	14.9	5.4	6.0	8.9
87.5°	10.1	12.5	13.1	12.5	10.7	9.5	8.3	7.1	2.4	0.0	1.2
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: P631276

CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	276.4	278.2	278.2	275.8	274.0	269.3	264.5	259.7	258.5	257.9
5°	276.4	283.6	287.1	286.5	282.4	274.6	264.5	253.8	250.8	249.6
7.5°	272.2	285.9	296.7	298.4	290.7	277.0	258.5	242.5	238.3	236.5
10°	281.8	308.6	330.0	333.0	324.1	297.3	267.5	240.1	233.5	229.3
12.5°	333.0	377.1	403.3	415.8	398.5	364.6	315.1	266.3	251.4	244.8
15°	436.7	499.2	549.2	549.2	533.2	473.0	410.4	331.2	311.0	293.1
17.5°	569.5	648.1	692.2	687.4	663.0	620.7	545.7	431.9	390.8	372.3
20°	720.8	767.9	778.0	775.0	764.3	739.9	688.0	565.9	510.5	481.9
22.5°	851.9	839.4	824.5	812.5	809.6	816.7	809.6	715.4	672.0	621.3
25°	940.6	869.7	825.1	803.6	813.7	854.8	899.5	864.4	829.8	777.4
27.5°	988.9	866.2	801.8	779.8	797.1	855.4	952.5	1012.1	976.4	951.3
30°	1015.1	863.2	786.9	765.5	791.7	865.0	989.5	1150.3	1151.5	1111.6
32.5°	1052.6	882.2	789.9	770.3	805.4	893.6	1035.9	1290.9	1325.5	1304.0
35°	1094.9	911.4	803.6	785.7	829.2	931.7	1087.8	1432.7	1504.8	1497.6
37.5°	1134.8	944.2	835.8	818.5	865.6	964.5	1137.8	1572.1	1672.2	1697.2
40°	1176.5	990.1	934.7	951.3	977.6	1016.3	1182.5	1693.0	1856.2	1893.8
42.5°	1274.8	1149.1	1233.7	1265.3	1268.9	1189.0	1280.2	1847.9	2037.3	2082.0
45°	1494.0	1432.1	1674.5	1719.2	1696.0	1454.1	1515.5	2071.3	2290.5	2313.1
47.5°	1771.0	1799.6	2278.0	2432.3	2292.9	1766.9	1800.8	2541.3	2754.0	2745.6
50°	2093.9	2229.1	2963.1	3327.0	2993.4	2173.1	2129.7	3119.1	3377.1	3351.5
52.5°	2475.8	2728.3	3786.3	4303.4	3987.7	2630.1	2612.2	3884.6	4041.9	3960.3
55°	2956.5	3210.3	4733.5	5456.1	5006.9	3187.6	3249.0	4772.2	4802.6	4543.5
57.5°	3673.7	3838.7	5849.9	6778.0	6070.9	3945.4	4390.4	5953.5	5590.1	5099.3
60°	4975.9	4647.1	6928.7	8130.2	7202.7	5011.1	5895.7	6653.5	5852.2	5175.5
62.5°	5429.3	5333.4	7604.2	8702.1	7964.0	5886.2	6287.1	6256.7	5512.7	4887.2
65°	4742.4	5162.4	7483.3	8400.1	7866.3	5742.0	5641.9	5818.9	5130.2	4449.3
67.5°	4380.8	4760.9	7025.2	7566.7	7324.8	5253.0	5029.0	4980.7	4307.0	3764.9
70°	4016.3	4392.8	6361.0	6428.3	6315.7	4455.9	4161.6	3838.1	3219.2	2748.0
72.5°	3577.8	3785.1	5439.4	5120.1	4992.6	3499.8	3437.8	2890.4	2413.2	2008.7
75°	3120.3	3060.2	4240.8	3514.1	3609.4	2723.0	2903.5	2122.5	1768.1	1445.8
77.5°	2269.6	2225.0	2840.3	2134.4	2363.8	1783.5	1602.5	847.1	806.6	695.8
80°	1266.5	1526.8	1533.9	1196.2	1492.2	1162.8	400.9	28.0	17.9	26.2
82.5°	588.6	656.5	831.6	554.6	851.3	576.0	82.8	0.0	0.0	0.0
85°	190.6	278.8	233.5	81.6	206.1	194.8	13.7	0.0	0.0	0.0
87.5°	11.3	23.2	6.0	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

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