

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: P628804

Luminaire Tested: GWS-SA1A-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2628.8 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

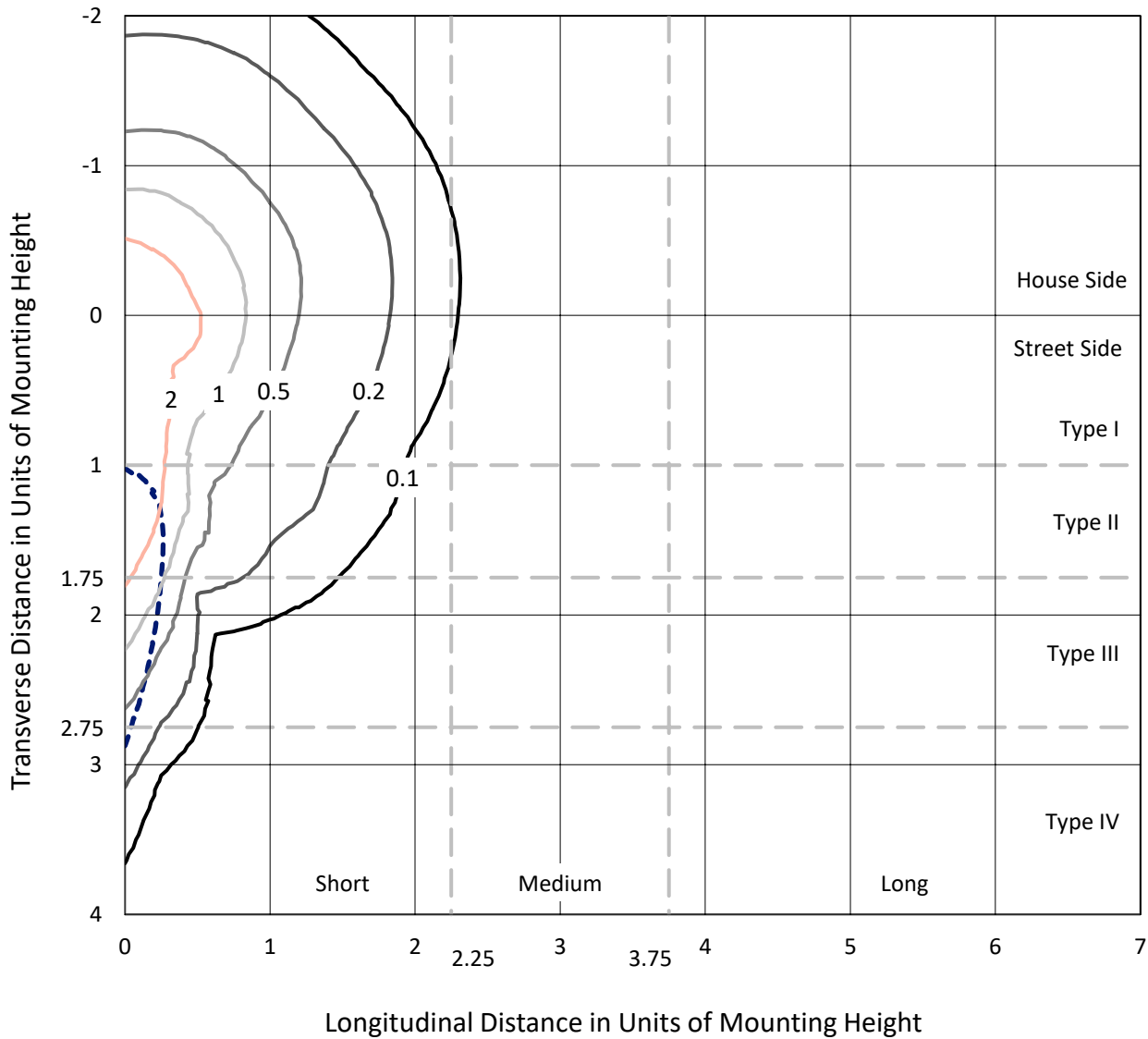
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P628804
 CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

Iso-Footcandle Lines of Horizontal Illumination

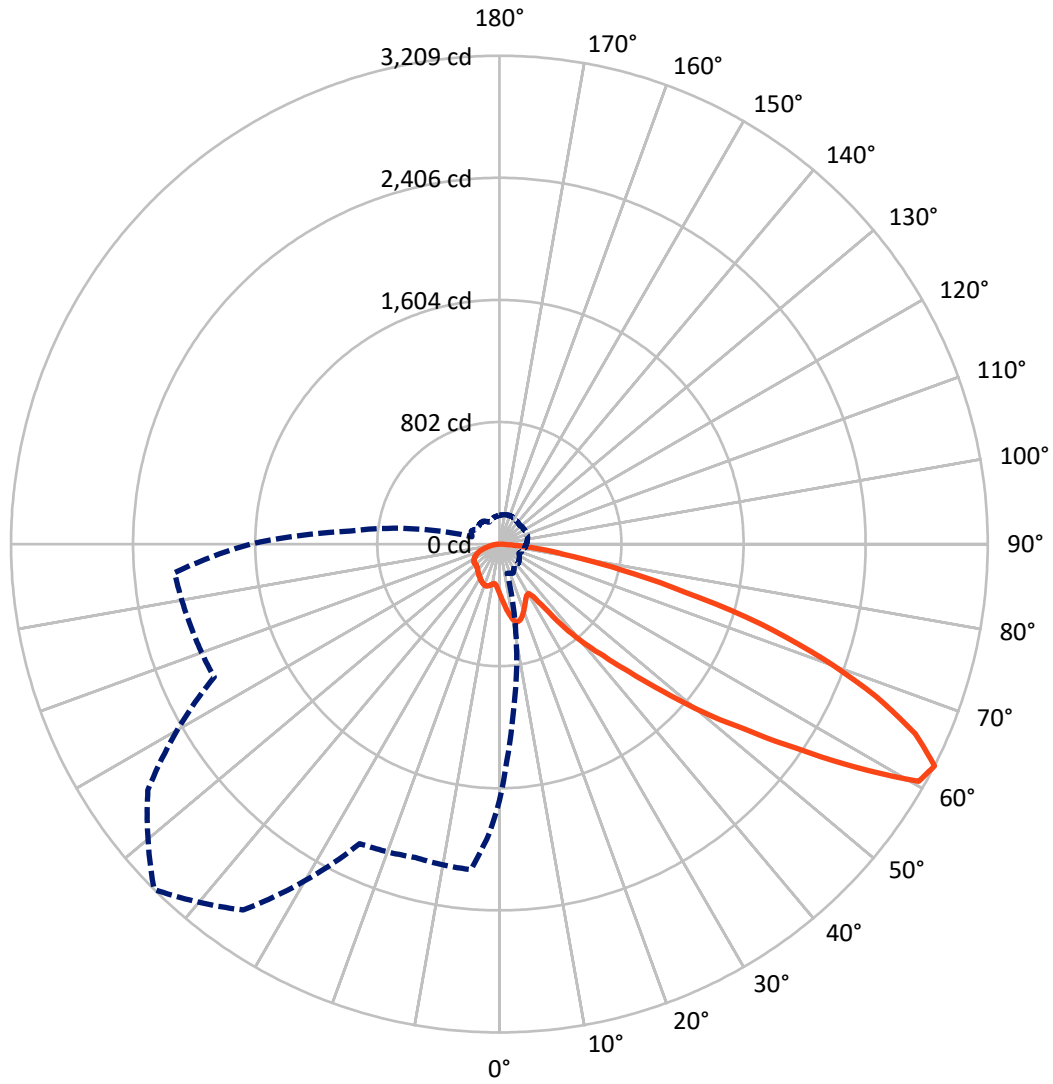
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

REPORT NUMBER: P628804
CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P628804

CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	0.0	628.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2000.2	0.0	2000.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	2628.8	0.0	2628.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.2
10°-20°	104.9	4.0
20°-30°	165.2	6.3
30°-40°	226.4	8.6
40°-50°	353.3	13.4
50°-60°	609.2	23.2
60°-70°	706.0	26.9
70°-80°	372.6	14.2
80°-90°	58.9	2.2
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°	2628.8	100.0
0°-180°	2628.8	100.0

Coefficient of Utilization



REPORT NUMBER: P628804

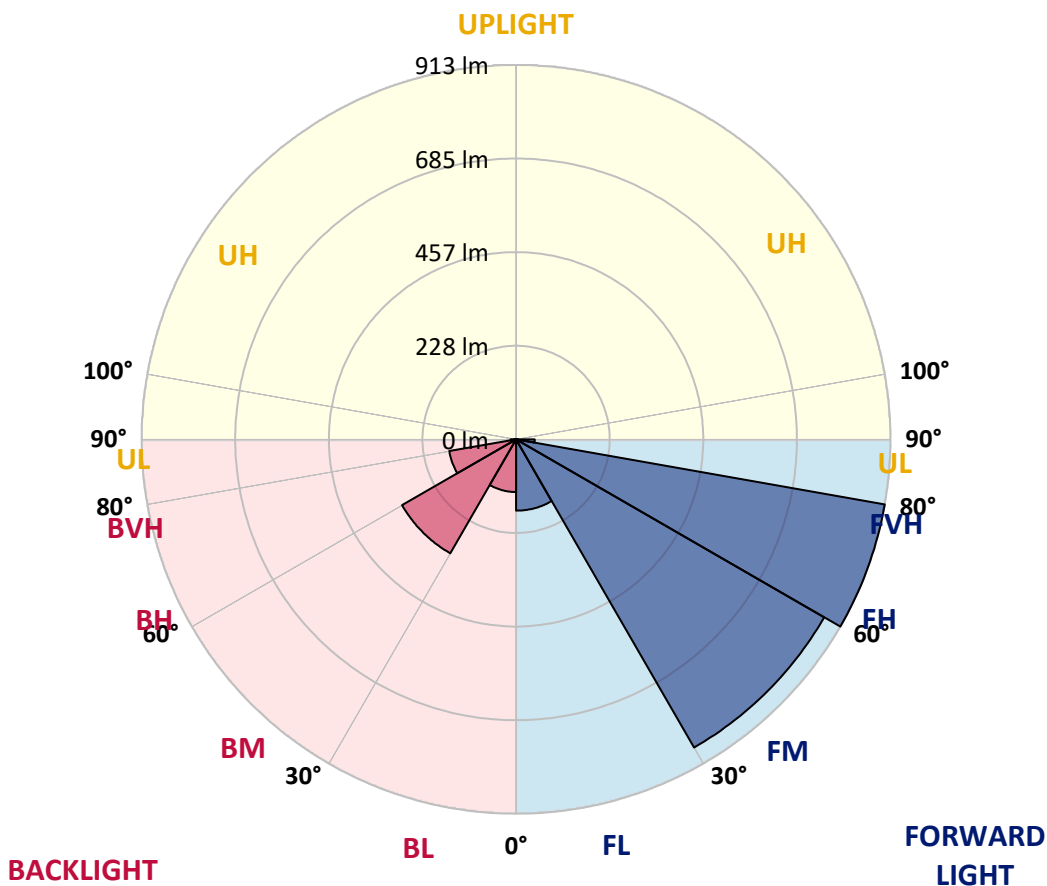
CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.9	6.6			
FM (30°-60°)	867.9	33.0			
FH (60°-80°)	913.1	34.7			G1/1800
FVH (80°-90°)	45.4	1.7			G1/100
BL (0°-30°)	128.6	4.9	B1/500		
BM (30°-60°)	321.1	12.2	B1/1000		
BH (60°-80°)	165.5	6.3	B1/500		G1/500
BVH (80°-90°)	13.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P628804
 CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8
2.5°	356.1	354.7	352.7	345.9	341.6	336.8	331.8	325.9	319.3	314.7	310.1
5°	386.3	384.1	379.2	362.9	351.7	339.4	329.2	317.5	306.0	298.2	290.4
7.5°	415.2	412.4	405.0	380.0	361.7	344.0	328.6	311.7	294.6	282.9	273.7
10°	444.2	438.3	428.9	396.3	372.2	351.7	334.0	313.3	290.6	274.7	264.8
12.5°	466.3	460.9	450.6	411.2	382.7	356.9	337.0	317.9	298.6	281.7	271.7
15°	487.0	480.0	468.3	425.1	391.3	356.7	331.0	314.3	311.5	307.2	294.2
17.5°	501.9	495.5	483.4	436.3	396.1	350.5	314.3	304.4	317.1	330.0	317.5
20°	515.0	507.5	495.3	444.2	397.1	336.6	294.0	294.2	314.1	331.8	328.8
22.5°	526.0	517.8	506.9	453.0	396.7	317.3	276.3	288.3	308.3	322.1	322.5
25°	539.7	532.9	523.8	466.1	396.7	297.6	263.4	281.3	298.4	310.1	309.7
27.5°	556.4	551.8	544.3	486.0	400.3	281.1	256.2	272.3	285.7	295.8	295.6
30°	575.1	570.9	565.2	507.1	406.6	268.8	252.2	261.0	270.9	278.9	278.9
32.5°	594.2	592.6	586.5	524.0	401.8	265.0	248.7	249.7	255.0	261.6	261.0
35°	620.7	619.1	611.5	537.1	380.8	259.6	243.3	238.3	238.9	243.1	244.5
37.5°	659.5	657.1	645.9	552.4	349.3	245.9	234.5	226.2	224.4	226.2	228.8
40°	706.4	702.8	687.5	573.1	312.9	227.4	220.6	213.7	210.7	211.3	214.3
42.5°	765.1	757.5	735.5	595.0	276.9	211.1	205.1	200.9	197.5	197.1	202.9
45°	860.4	839.5	804.7	614.5	246.5	202.5	191.2	188.2	185.4	187.0	193.8
47.5°	1026.9	988.3	920.5	631.2	228.0	202.7	180.2	176.9	176.7	180.0	187.6
50°	1255.7	1200.0	1095.5	642.4	218.4	205.1	173.5	168.3	172.1	175.3	182.6
52.5°	1474.9	1389.9	1265.4	642.2	214.1	205.5	175.3	160.3	172.1	172.9	179.8
55°	1662.1	1508.1	1311.2	576.3	208.1	203.9	182.4	154.0	169.9	172.9	178.4
57.5°	1810.9	1583.3	1307.8	465.5	226.4	195.0	186.6	152.6	163.5	173.3	179.6
60°	1794.4	1548.9	1223.6	285.7	224.6	179.4	186.0	155.2	152.6	167.9	178.2
62.5°	1684.8	1425.6	1078.6	198.3	210.9	170.3	176.1	159.9	142.6	160.1	171.3
65°	1531.4	1266.6	898.8	152.0	174.7	170.7	159.5	156.6	133.7	147.6	159.7
67.5°	1328.5	1069.3	709.6	120.4	121.9	147.8	144.8	139.1	125.5	136.5	147.4
70°	998.8	780.4	488.2	96.9	92.3	123.5	130.1	125.1	117.4	120.6	132.1
72.5°	703.8	509.5	267.4	76.8	71.2	94.9	113.0	112.2	103.8	106.2	117.4
75°	523.0	360.5	167.1	60.7	57.9	68.0	94.7	97.1	90.1	92.9	101.5
77.5°	348.1	233.5	92.9	45.0	45.0	49.7	70.6	81.8	76.6	78.8	84.9
80°	192.0	118.8	46.4	29.6	30.4	34.2	51.5	58.9	59.1	64.5	66.2
82.5°	60.7	37.8	20.7	17.3	16.3	19.5	33.2	42.2	39.4	50.3	46.2
85°	13.9	8.8	3.8	3.8	4.2	6.4	12.7	22.5	28.8	34.6	25.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	8.8	13.1	11.7
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: P628804
 CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8
2.5°	307.2	303.2	302.0	298.6	298.2	295.0	293.8	293.8	295.2	295.2	296.6
5°	287.1	282.1	279.3	275.3	274.3	271.9	270.2	270.4	272.3	273.5	275.9
7.5°	269.4	266.0	264.0	262.2	261.8	261.4	259.6	259.4	260.0	261.8	263.6
10°	262.0	259.6	260.2	261.6	263.8	265.0	263.4	262.6	262.0	263.2	264.8
12.5°	269.2	266.8	268.0	270.4	273.5	274.7	274.1	273.9	274.5	279.1	282.5
15°	285.1	280.5	278.9	279.9	282.3	283.5	282.9	283.7	287.5	299.6	308.3
17.5°	304.8	293.6	287.1	285.3	286.3	287.3	287.3	289.4	296.0	313.7	324.5
20°	315.5	300.8	290.0	285.5	285.9	286.9	286.9	289.8	297.2	316.1	323.1
22.5°	312.7	299.2	285.9	281.1	281.3	282.1	282.1	284.5	291.2	307.9	311.1
25°	301.6	289.8	276.7	272.5	272.9	274.3	273.9	275.3	280.3	294.0	295.8
27.5°	288.3	277.9	265.0	261.8	263.6	266.4	264.0	264.2	268.8	280.3	280.5
30°	274.1	265.4	254.0	251.5	255.0	256.4	254.2	254.2	258.8	266.6	266.4
32.5°	258.6	253.2	244.9	242.3	246.1	248.3	245.5	245.9	249.5	254.8	252.8
35°	244.1	241.3	237.5	235.7	238.1	240.1	238.3	239.1	242.5	243.9	241.1
37.5°	230.2	229.8	230.2	230.2	230.8	231.4	230.2	232.2	235.3	233.5	230.2
40°	218.2	219.8	223.6	222.6	222.0	222.6	221.8	225.2	228.2	225.0	221.2
42.5°	208.1	211.1	217.0	217.0	215.8	216.2	215.8	220.0	222.2	217.8	213.5
45°	199.5	203.9	211.3	212.3	210.3	210.3	211.1	216.4	217.2	211.1	206.7
47.5°	193.4	198.9	207.3	209.1	206.1	205.9	208.1	213.7	213.7	206.7	201.7
50°	189.2	195.2	205.3	207.7	204.7	203.9	207.5	212.9	211.7	203.3	198.3
52.5°	186.4	192.6	205.1	208.5	206.5	205.7	209.3	213.1	210.1	201.1	195.8
55°	184.6	191.4	205.7	208.5	206.3	204.9	208.5	211.9	210.3	199.9	194.8
57.5°	185.6	192.4	204.9	206.3	203.7	201.3	205.5	210.3	209.7	200.3	195.2
60°	184.0	190.2	200.5	200.9	196.5	192.6	198.9	206.1	206.1	198.9	194.4
62.5°	176.5	182.8	191.8	192.2	187.2	183.0	190.2	198.9	198.7	192.8	188.2
65°	164.3	170.1	180.4	181.4	176.3	171.9	179.4	187.4	188.0	182.8	178.8
67.5°	150.8	156.0	163.7	167.7	163.5	158.9	165.7	173.3	173.1	166.9	162.7
70°	134.7	139.5	146.6	150.0	147.4	143.0	149.2	153.2	151.4	148.4	145.6
72.5°	118.8	123.5	130.1	130.1	127.3	123.1	124.9	132.1	134.3	132.1	130.3
75°	102.1	106.2	110.8	111.8	105.6	97.9	106.4	112.6	115.2	114.2	112.0
77.5°	85.1	88.1	94.9	93.1	81.4	77.4	84.3	93.5	95.3	94.7	91.7
80°	65.6	67.4	74.6	71.0	61.9	59.3	62.3	69.6	70.0	68.0	64.1
82.5°	44.0	46.4	51.3	44.2	44.0	41.6	39.2	40.0	43.6	43.2	40.6
85°	22.5	23.7	28.4	26.5	22.7	19.7	18.7	19.9	17.9	16.3	14.1
87.5°	9.5	10.3	14.1	7.8	2.4	0.0	0.0	1.2	1.8	2.6	2.8
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: P628804
 CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8
2.5°	299.8	302.0	307.4	314.3	320.9	327.8	335.2	339.8	345.5	352.7	352.9
5°	278.9	283.9	291.8	302.2	313.1	325.5	340.0	352.1	366.6	378.0	382.7
7.5°	266.0	273.3	283.1	296.4	310.7	326.1	345.0	365.4	389.1	404.4	413.4
10°	267.2	278.3	288.1	299.4	312.3	329.0	353.3	380.2	409.4	429.5	440.8
12.5°	288.7	300.4	298.6	298.0	306.6	327.0	359.9	395.3	430.9	451.0	464.5
15°	315.9	320.3	303.2	290.4	295.6	319.7	363.5	408.8	448.8	473.3	486.6
17.5°	329.8	320.9	300.2	280.9	279.5	308.7	365.4	422.5	468.9	493.4	507.5
20°	323.3	310.5	293.0	274.7	264.6	293.6	364.4	433.3	487.2	514.6	526.0
22.5°	309.5	298.2	284.5	267.0	252.6	277.1	361.7	444.2	503.5	531.0	541.1
25°	294.4	285.9	274.7	259.4	245.7	262.6	359.9	458.7	522.2	548.5	555.0
27.5°	279.3	273.1	263.8	252.0	244.1	252.6	360.5	477.6	546.3	571.3	568.6
30°	264.4	259.0	252.6	247.3	243.9	250.1	358.9	497.7	572.9	596.0	580.5
32.5°	250.3	245.3	241.3	242.1	244.1	251.1	350.7	516.0	597.2	616.9	593.4
35°	238.3	233.0	233.0	235.9	243.3	247.7	329.4	530.2	624.1	643.9	611.7
37.5°	227.0	222.4	225.4	230.0	237.1	238.5	302.0	544.1	663.4	681.9	640.0
40°	217.2	212.5	218.0	223.8	227.4	226.8	274.3	563.4	709.6	728.7	677.6
42.5°	209.3	205.1	209.9	217.4	218.0	218.6	254.0	581.9	763.3	787.6	742.4
45°	202.9	199.9	202.3	209.7	209.7	219.0	241.3	597.4	844.1	887.2	861.2
47.5°	197.9	196.1	197.3	199.7	203.7	226.2	233.3	609.3	991.3	1075.8	1049.6
50°	195.0	193.2	194.8	189.8	201.9	229.8	230.6	618.3	1185.4	1317.7	1285.3
52.5°	192.6	192.0	193.0	181.4	205.9	227.4	228.6	606.2	1315.5	1555.7	1587.7
55°	191.8	192.2	187.4	175.1	210.7	219.4	222.6	520.0	1350.8	1761.0	1959.5
57.5°	192.2	191.0	178.8	175.7	210.9	203.3	231.2	371.0	1299.4	1850.3	2323.3
60°	190.8	184.8	168.3	181.2	201.7	184.4	225.0	241.9	1163.6	1781.8	2344.4
62.5°	184.6	175.7	159.3	184.2	185.2	173.1	204.3	186.4	982.7	1635.0	2140.9
65°	175.5	163.7	151.6	178.0	168.5	167.9	153.6	149.4	790.2	1460.2	1947.8
67.5°	160.7	148.8	146.0	163.7	151.6	148.8	123.5	123.9	630.6	1274.0	1753.8
70°	143.8	131.9	134.1	148.0	134.9	123.7	99.9	103.2	478.4	1061.5	1492.2
72.5°	132.7	116.8	117.0	130.3	118.6	100.1	82.2	85.1	303.6	800.1	1186.4
75°	112.0	103.0	98.5	105.6	100.7	78.0	69.2	68.6	180.0	573.5	888.4
77.5°	93.5	86.5	84.3	87.1	75.2	57.7	55.7	54.7	101.9	367.4	582.1
80°	67.8	66.0	65.8	67.2	57.9	42.4	42.4	42.6	54.9	199.5	328.2
82.5°	43.0	47.1	41.6	46.2	39.4	30.2	28.2	32.0	31.6	85.1	138.3
85°	17.9	24.5	22.9	24.3	18.7	16.5	17.7	19.1	18.3	32.8	53.9
87.5°	3.4	4.0	4.4	4.2	4.2	5.2	5.8	7.0	7.0	9.5	16.3
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: P628804
 CATALOG NUMBER: GWS-SA1A-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8	327.8
2.5°	360.5	366.4	365.2	367.8	364.4	365.6	358.7	356.9	355.7	356.1
5°	397.5	409.4	411.6	416.0	413.0	413.0	400.9	391.9	388.7	386.3
7.5°	435.1	452.2	463.5	464.7	463.1	459.9	442.4	426.1	420.3	415.2
10°	468.5	489.0	501.7	507.7	504.7	499.7	478.0	455.6	448.6	444.2
12.5°	494.0	512.1	520.6	524.6	524.2	522.4	504.7	480.6	473.1	466.3
15°	510.5	519.6	516.4	516.2	519.0	526.2	520.8	501.9	493.2	487.0
17.5°	521.2	512.5	498.3	491.6	497.7	514.8	527.2	516.6	508.7	501.9
20°	525.0	494.2	473.5	461.3	468.3	493.0	523.8	527.2	520.6	515.0
22.5°	520.6	471.9	443.8	429.3	436.1	465.7	513.8	535.9	531.4	526.0
25°	509.7	448.6	414.8	401.8	409.2	439.4	495.9	543.9	544.1	539.7
27.5°	496.3	427.1	394.5	382.2	389.5	417.6	478.4	551.0	558.0	556.4
30°	482.6	414.2	384.9	376.2	381.6	406.6	460.5	558.2	572.3	575.1
32.5°	476.4	420.5	407.6	411.4	404.4	413.0	454.0	568.4	589.6	594.2
35°	484.6	475.8	508.3	523.4	498.5	465.7	462.3	583.9	613.9	620.7
37.5°	524.6	594.2	642.8	695.9	652.7	580.5	503.1	610.3	648.7	659.5
40°	611.7	697.5	785.4	854.0	788.6	691.5	580.7	649.5	696.5	706.4
42.5°	693.7	794.5	915.5	1004.2	919.3	782.2	664.4	715.4	759.7	765.1
45°	774.1	889.6	1073.0	1196.2	1081.0	868.5	749.8	826.8	860.2	860.4
47.5°	868.5	996.7	1270.4	1446.0	1295.5	964.0	830.0	1003.2	1049.6	1026.9
50°	981.3	1103.3	1473.7	1736.5	1557.1	1081.4	932.0	1218.1	1281.5	1255.7
52.5°	1132.3	1220.7	1697.7	2019.8	1842.3	1215.1	1079.8	1502.1	1523.0	1474.9
55°	1344.8	1390.3	1985.2	2369.7	2160.6	1379.8	1295.9	1858.4	1799.8	1662.1
57.5°	1828.8	1658.5	2354.4	2768.8	2520.7	1679.0	1769.7	2251.3	2043.2	1810.9
60°	2233.8	1984.2	2696.1	3165.0	2829.4	2008.8	2214.5	2319.6	2034.1	1794.4
62.5°	2097.2	2067.3	2819.3	3208.6	2934.7	2171.0	2131.8	2147.3	1901.4	1684.8
65°	1840.1	1907.0	2709.3	3001.7	2817.9	2025.7	1928.3	1988.1	1749.6	1531.4
67.5°	1688.2	1737.5	2513.7	2670.5	2605.6	1868.4	1770.1	1726.9	1513.9	1328.5
70°	1533.0	1573.8	2239.0	2254.9	2274.4	1607.0	1447.4	1318.7	1128.4	998.8
72.5°	1324.7	1326.9	1891.7	1799.6	1836.6	1257.5	1165.0	985.9	821.4	703.8
75°	1111.4	1050.6	1497.4	1257.9	1332.1	978.2	967.4	743.0	619.5	523.0
77.5°	847.3	776.4	1093.9	827.2	935.6	651.5	727.3	503.9	435.9	348.1
80°	568.8	524.6	604.4	466.9	612.1	449.0	474.3	285.5	247.5	192.0
82.5°	300.0	256.2	373.6	276.9	369.2	246.7	178.0	88.3	75.2	60.7
85°	116.2	134.5	183.2	98.5	143.2	88.1	51.5	21.9	18.3	13.9
87.5°	22.5	34.8	19.1	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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