

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: P643156

Luminaire Tested: GWS-SA6E-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643156
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-SAGE-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26732.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

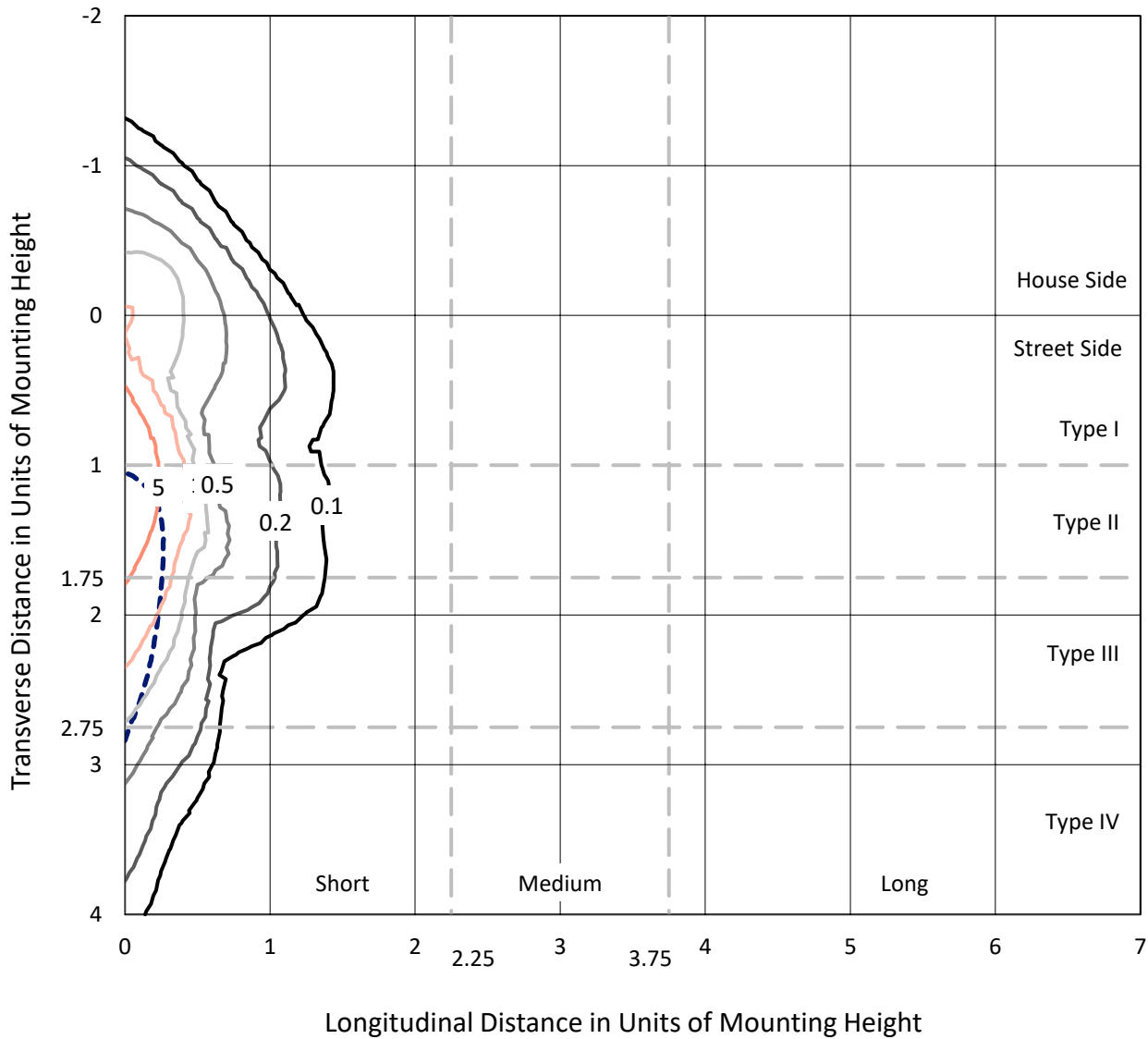
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643156
 CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

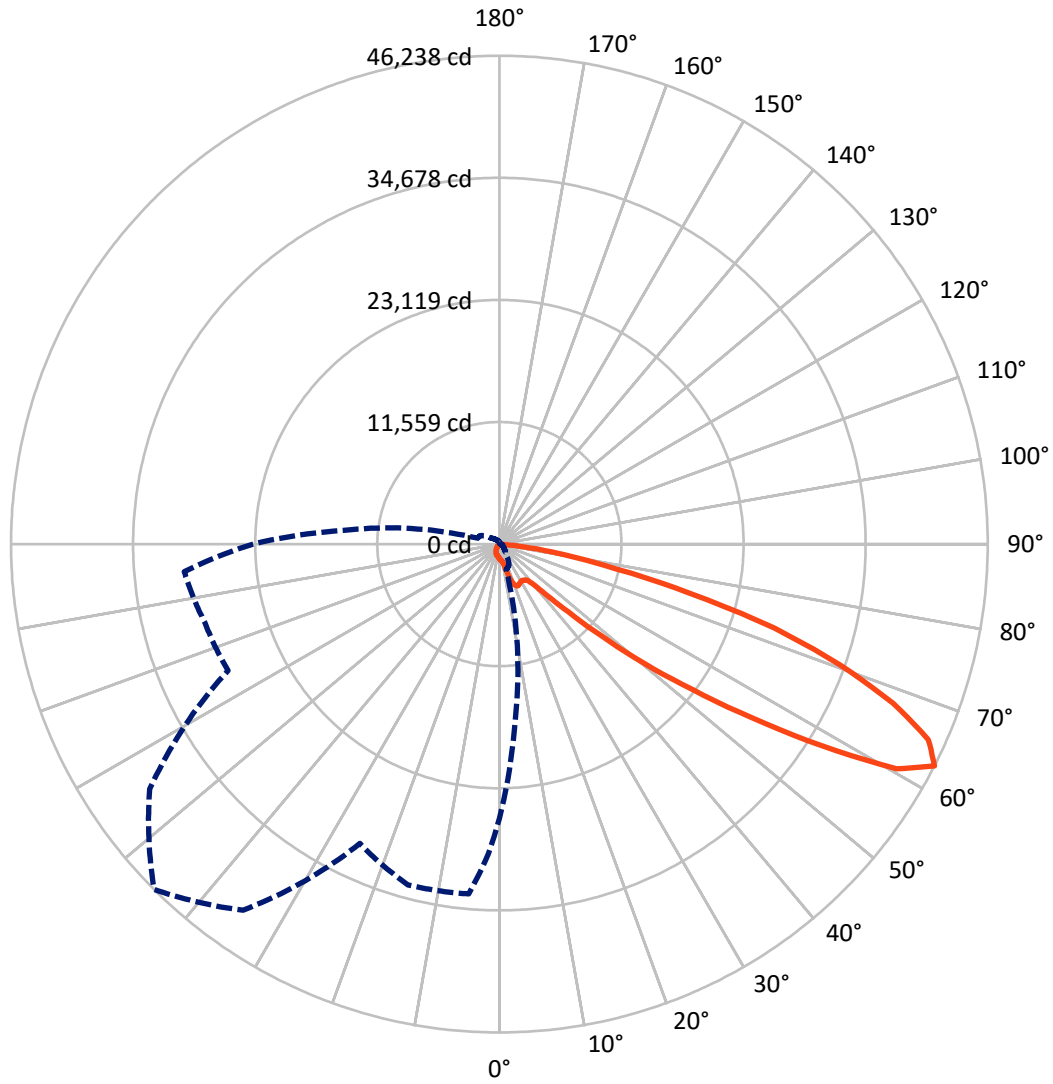
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P643156
CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643156
 CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3105.9	0.0	3105.9
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	23626.2	0.0	23626.2
	% Fixture	88.4	0.0	88.4
Total	Lumens	26732.1	0.0	26732.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	0.4
10°-20°	410.3	1.5
20°-30°	927.0	3.5
30°-40°	1597.0	6.0
40°-50°	3012.5	11.3
50°-60°	6726.0	25.2
60°-70°	8996.0	33.7
70°-80°	4511.2	16.9
80°-90°	432.4	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°	26732.1	100.0
0°-180°	26732.1	100.0

Coefficient of Utilization



REPORT NUMBER: P643156

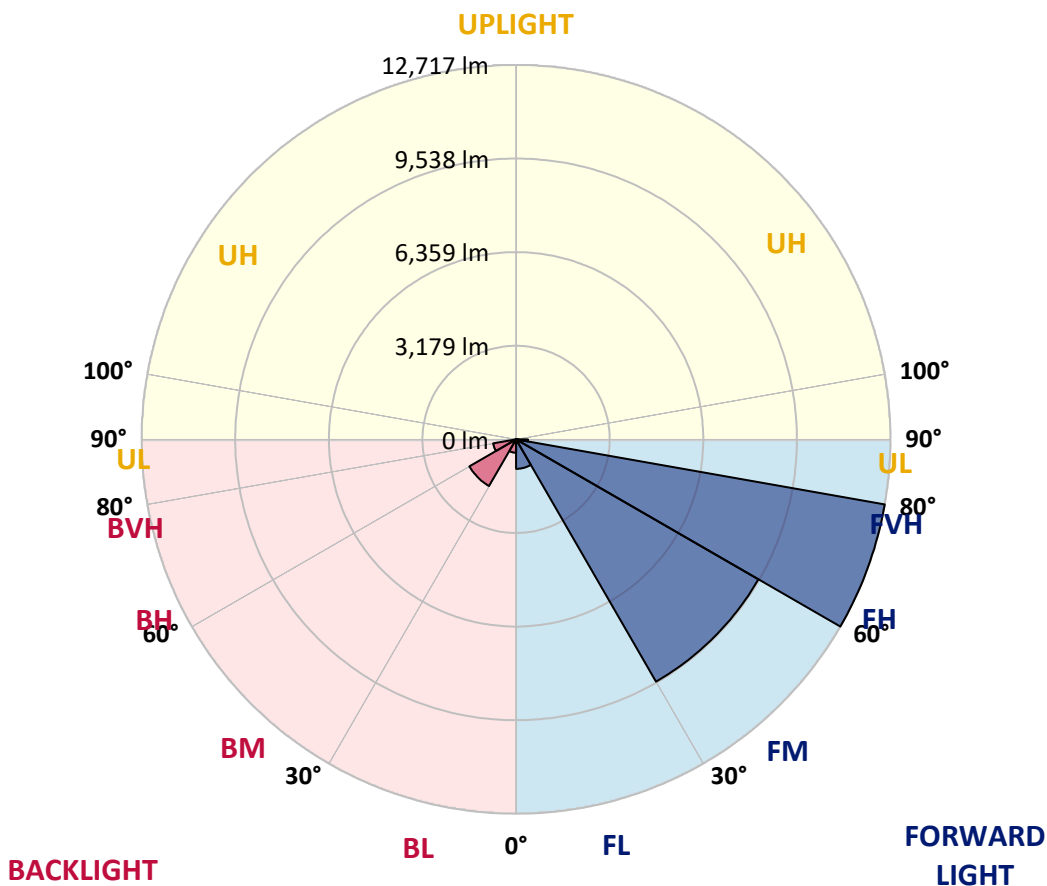
CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.2	3.7			
FM (30°-60°)	9504.1	35.6			
FH (60°-80°)	12717.3	47.6			G5
FVH (80°-90°)	403.6	1.5			G3/500
BL (0°-30°)	455.9	1.7	B1/500		
BM (30°-60°)	1831.4	6.9	B2/2500		
BH (60°-80°)	789.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	28.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





REPORT NUMBER: P643156

CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1370.5	1367.4	1361.0	1342.1	1326.2	1316.7	1297.7	1297.7	1294.6	1288.2	1275.6
5°	1326.2	1313.6	1300.9	1266.1	1228.1	1205.9	1180.6	1177.5	1177.5	1171.1	1168.0
7.5°	1256.6	1243.9	1228.1	1171.1	1136.3	1114.2	1092.0	1088.8	1079.3	1079.3	1079.3
10°	1218.6	1199.6	1174.3	1111.0	1076.2	1057.2	1041.4	1031.9	1025.5	1016.0	1012.9
12.5°	1300.9	1266.1	1212.3	1098.3	1050.9	1025.5	1006.5	1000.2	981.2	968.6	959.1
15°	1557.3	1471.8	1364.2	1126.8	1041.4	1003.4	978.1	965.4	949.6	927.4	911.6
17.5°	1978.3	1854.8	1674.4	1218.6	1031.9	984.4	952.7	930.6	908.4	883.1	864.1
20°	2560.7	2377.1	2161.8	1386.4	1031.9	962.2	924.2	895.8	864.1	835.6	813.5
22.5°	3301.3	3117.7	2750.6	1671.2	1044.5	933.7	889.4	851.4	813.5	788.1	762.8
25°	4130.6	3871.1	3529.2	2016.2	1079.3	895.8	848.3	810.3	775.5	743.8	715.3
27.5°	5054.9	4773.1	4317.4	2506.9	1155.3	857.8	804.0	769.1	737.5	705.8	667.9
30°	5906.3	5738.5	5273.3	3095.6	1278.7	832.5	769.1	737.5	705.8	664.7	629.9
32.5°	6928.7	6631.1	6248.1	3766.6	1443.3	807.1	740.7	696.3	671.0	633.0	595.1
35°	7957.4	7704.1	7200.9	4592.7	1626.9	781.8	705.8	664.7	642.5	598.2	557.1
37.5°	9017.7	8960.7	8463.8	5507.5	1807.3	753.3	664.7	639.4	617.2	566.6	519.1
40°	10062.2	9957.8	9498.8	6552.0	1918.1	721.7	629.9	614.1	588.7	531.8	477.9
42.5°	11062.4	10983.3	10537.0	7552.2	1902.3	693.2	595.1	576.1	557.1	500.1	433.6
45°	12290.5	12160.8	11597.4	8292.9	1740.9	724.8	560.2	528.6	525.4	471.6	389.3
47.5°	14588.5	14161.2	13205.3	8862.6	1579.4	807.1	522.3	484.3	506.4	443.1	345.0
50°	17807.5	17304.2	15921.0	9305.7	1576.3	914.7	515.9	443.1	490.6	421.0	307.0
52.5°	21042.4	20156.1	18475.4	9543.1	1693.4	993.9	572.9	402.0	471.6	398.8	278.5
55°	24141.1	22302.1	19545.2	8758.2	1785.2	1079.3	677.4	379.8	436.8	373.5	262.7
57.5°	27094.3	24027.2	20010.5	6928.7	2092.2	1114.2	740.7	389.3	386.2	341.8	250.1
60°	27499.4	23944.9	19070.4	4029.3	2307.4	1054.0	715.3	433.6	338.7	303.9	227.9
62.5°	25967.4	22352.8	16927.6	2513.2	2142.9	1031.9	636.2	493.8	307.0	269.0	199.4
65°	23641.0	19855.4	14113.7	1620.6	1623.8	1145.8	557.1	484.3	288.0	237.4	170.9
67.5°	20004.2	16617.4	11119.4	1085.7	917.9	978.1	487.4	332.3	281.7	202.6	132.9
70°	14601.1	11828.4	7238.9	724.8	547.6	781.8	408.3	237.4	265.9	167.8	95.0
72.5°	10673.1	7947.9	4042.0	474.8	310.2	455.8	300.7	170.9	205.7	123.4	66.5
75°	7682.0	5469.5	2307.4	303.9	205.7	250.1	196.2	117.1	132.9	98.1	60.1
77.5°	3697.0	2665.1	1047.7	167.8	139.3	126.6	104.5	72.8	82.3	88.6	53.8
80°	139.3	104.5	79.1	82.3	88.6	57.0	47.5	38.0	47.5	60.1	28.5
82.5°	0.0	0.0	0.0	9.5	12.7	15.8	19.0	15.8	19.0	22.2	3.2
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: P643156

CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1285.1	1278.7	1285.1	1291.4	1297.7	1304.1	1294.6	1300.9	1307.2	1291.4	1297.7
5°	1183.8	1180.6	1199.6	1209.1	1221.8	1228.1	1221.8	1221.8	1218.6	1199.6	1199.6
7.5°	1095.2	1098.3	1114.2	1136.3	1152.1	1161.6	1155.3	1152.1	1142.6	1114.2	1114.2
10°	1028.7	1028.7	1054.0	1073.0	1095.2	1104.7	1098.3	1088.8	1079.3	1050.9	1047.7
12.5°	974.9	974.9	993.9	1025.5	1050.9	1063.5	1060.3	1047.7	1031.9	1003.4	1000.2
15°	924.2	921.1	949.6	978.1	1012.9	1028.7	1022.4	1012.9	984.4	959.1	952.7
17.5°	873.6	870.4	895.8	933.7	971.7	993.9	990.7	968.6	943.2	911.6	905.3
20°	823.0	816.6	848.3	886.3	924.2	946.4	940.1	921.1	889.4	857.8	851.4
22.5°	772.3	769.1	791.3	823.0	857.8	876.8	873.6	857.8	826.1	797.6	797.6
25°	715.3	715.3	731.2	753.3	778.6	788.1	791.3	785.0	766.0	750.2	750.2
27.5°	667.9	658.4	664.7	671.0	683.7	699.5	699.5	705.8	709.0	702.7	705.8
30°	629.9	614.1	604.6	591.9	585.6	591.9	598.2	620.4	642.5	655.2	661.5
32.5°	585.6	566.6	541.3	506.4	484.3	477.9	496.9	538.1	579.2	607.7	623.5
35°	541.3	515.9	468.5	417.8	389.3	379.8	402.0	449.5	509.6	560.2	582.4
37.5°	496.9	462.1	395.7	335.5	303.9	297.5	319.7	370.3	440.0	509.6	538.1
40°	446.3	405.1	326.0	262.7	237.4	231.1	250.1	300.7	373.5	452.6	496.9
42.5°	395.7	345.0	262.7	208.9	183.6	183.6	208.9	246.9	313.4	398.8	452.6
45°	345.0	291.2	215.2	167.8	151.9	155.1	170.9	208.9	262.7	351.3	402.0
47.5°	297.5	250.1	177.3	139.3	126.6	129.8	148.8	180.4	224.7	303.9	357.7
50°	256.4	212.1	155.1	117.1	107.6	113.9	132.9	161.4	199.4	269.0	313.4
52.5°	231.1	189.9	142.4	101.3	95.0	101.3	120.3	145.6	180.4	237.4	281.7
55°	218.4	186.7	142.4	91.8	82.3	88.6	107.6	132.9	161.4	215.2	253.2
57.5°	215.2	193.1	151.9	82.3	69.6	76.0	95.0	120.3	148.8	196.2	227.9
60°	202.6	183.6	148.8	66.5	53.8	63.3	79.1	104.5	136.1	183.6	212.1
62.5°	177.3	161.4	129.8	53.8	41.1	47.5	66.5	91.8	123.4	167.8	199.4
65°	145.6	129.8	101.3	34.8	25.3	31.7	50.6	79.1	107.6	151.9	180.4
67.5°	107.6	91.8	69.6	22.2	12.7	22.2	41.1	66.5	98.1	136.1	164.6
70°	66.5	53.8	38.0	12.7	9.5	19.0	38.0	63.3	88.6	126.6	155.1
72.5°	38.0	25.3	15.8	6.3	9.5	19.0	38.0	63.3	85.5	120.3	145.6
75°	28.5	15.8	6.3	3.2	6.3	15.8	34.8	57.0	82.3	113.9	139.3
77.5°	19.0	9.5	3.2	0.0	3.2	12.7	31.7	53.8	76.0	107.6	132.9
80°	3.2	0.0	0.0	0.0	0.0	9.5	28.5	47.5	69.6	95.0	117.1
82.5°	0.0	0.0	0.0	0.0	0.0	3.2	22.2	41.1	60.1	79.1	95.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	12.7	31.7	47.5	60.1	66.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	31.7	38.0	44.3
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: P643156

CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1294.6	1313.6	1313.6	1326.2	1342.1	1370.5	1386.4	1408.5	1424.3	1440.2	1446.5
5°	1196.5	1199.6	1202.8	1209.1	1228.1	1259.8	1288.2	1323.1	1364.2	1395.9	1414.9
7.5°	1114.2	1114.2	1114.2	1123.7	1142.6	1164.8	1193.3	1240.8	1288.2	1326.2	1357.9
10°	1044.5	1054.0	1057.2	1073.0	1095.2	1123.7	1155.3	1196.5	1250.3	1300.9	1357.9
12.5°	1000.2	1009.7	1025.5	1041.4	1063.5	1095.2	1130.0	1183.8	1294.6	1399.0	1519.3
15°	959.1	971.7	990.7	1012.9	1038.2	1073.0	1111.0	1221.8	1481.3	1677.6	1867.5
17.5°	914.7	933.7	959.1	981.2	1012.9	1050.9	1098.3	1313.6	1823.2	2149.2	2472.0
20°	857.8	883.1	911.6	946.4	984.4	1028.7	1098.3	1503.5	2316.9	2785.4	3212.7
22.5°	804.0	829.3	864.1	908.4	952.7	997.0	1114.2	1791.5	2953.1	3545.0	4086.3
25°	759.7	791.3	826.1	864.1	914.7	965.4	1152.1	2196.7	3719.1	4481.9	4864.9
27.5°	718.5	756.5	791.3	823.0	867.3	924.2	1237.6	2737.9	4624.4	5399.9	5700.6
30°	677.4	721.7	756.5	788.1	832.5	892.6	1367.4	3427.9	5630.9	6384.2	6415.9
32.5°	642.5	683.7	724.8	756.5	797.6	867.3	1547.8	4235.1	6662.8	7390.8	7093.3
35°	604.6	652.0	690.0	724.8	769.1	845.1	1756.7	5105.5	7704.1	8315.0	7767.4
37.5°	566.6	620.4	667.9	693.2	737.5	823.0	1908.6	6013.9	8767.7	9217.1	8359.3
40°	531.8	591.9	645.7	671.0	693.2	794.5	1930.8	6944.5	9847.0	10106.5	8916.4
42.5°	493.8	560.2	607.7	642.5	661.5	775.5	1797.8	7729.5	10752.2	10992.8	9644.4
45°	452.6	531.8	569.7	595.1	633.0	788.1	1626.9	8337.2	11787.3	12201.9	10844.0
47.5°	411.5	500.1	531.8	550.7	601.4	864.1	1563.6	8742.3	13493.3	14354.3	12866.6
50°	373.5	471.6	506.4	503.3	595.1	962.2	1633.3	9049.4	16057.1	17070.0	15639.3
52.5°	332.3	440.0	481.1	468.5	642.5	1038.2	1772.5	9293.1	18029.1	20254.2	19364.8
55°	297.5	405.1	443.1	440.0	731.2	1095.2	1880.1	8008.0	18845.7	23213.7	23561.9
57.5°	272.2	367.2	398.8	452.6	788.1	1095.2	2174.5	5684.7	18861.5	25391.4	29132.7
60°	250.1	332.3	354.5	496.9	766.0	1038.2	2152.3	3481.7	17383.4	25242.6	32095.3
62.5°	231.1	300.7	329.2	509.6	677.4	1028.7	1943.4	2158.7	14825.9	23321.3	29946.1
65°	215.2	275.4	316.5	468.5	614.1	1101.5	1310.4	1551.0	12024.7	21131.0	27480.4
67.5°	199.4	253.2	335.5	383.0	557.1	984.4	946.4	1101.5	9438.7	18728.6	25217.3
70°	186.7	240.6	354.5	313.4	487.4	769.1	671.0	835.6	7226.2	15626.7	22029.9
72.5°	177.3	224.7	297.5	246.9	395.7	595.1	468.5	607.7	4722.5	12198.7	17959.4
75°	167.8	205.7	218.4	199.4	294.4	389.3	354.5	408.3	2813.9	8916.4	13626.3
77.5°	164.6	193.1	177.3	161.4	199.4	231.1	269.0	275.4	1373.7	4459.8	7140.7
80°	145.6	174.1	151.9	132.9	136.1	151.9	199.4	183.6	313.4	1133.1	1905.5
82.5°	113.9	136.1	126.6	110.8	110.8	110.8	132.9	123.4	101.3	509.6	860.9
85°	79.1	95.0	95.0	88.6	85.5	85.5	82.3	79.1	28.5	31.7	47.5
87.5°	53.8	66.5	69.6	66.5	57.0	50.6	44.3	38.0	12.7	0.0	6.3
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: P643156

CATALOG NUMBER: GWS-SA6E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1468.7	1478.2	1478.2	1465.5	1456.0	1430.7	1405.4	1380.0	1373.7	1370.5
5°	1468.7	1506.6	1525.6	1522.5	1500.3	1459.2	1405.4	1348.4	1332.6	1326.2
7.5°	1446.5	1519.3	1576.3	1585.8	1544.6	1471.8	1373.7	1288.2	1266.1	1256.6
10°	1497.1	1639.6	1753.5	1769.4	1721.9	1579.4	1421.2	1275.6	1240.8	1218.6
12.5°	1769.4	2003.6	2142.9	2209.3	2117.5	1937.1	1674.4	1414.9	1335.7	1300.9
15°	2320.1	2652.5	2918.3	2918.3	2832.9	2513.2	2180.8	1759.9	1652.2	1557.3
17.5°	3025.9	3443.8	3678.0	3652.7	3522.9	3298.2	2899.3	2294.8	2076.4	1978.3
20°	3829.9	4080.0	4133.8	4117.9	4061.0	3931.2	3655.8	3007.0	2712.6	2560.7
22.5°	4526.3	4459.8	4380.7	4317.4	4301.5	4339.5	4301.5	3801.4	3570.4	3301.3
25°	4997.9	4621.2	4383.8	4269.9	4323.7	4542.1	4779.5	4592.7	4409.1	4130.6
27.5°	5254.3	4602.2	4260.4	4143.3	4235.1	4545.3	5061.2	5377.7	5187.8	5054.9
30°	5393.5	4586.4	4181.3	4067.3	4206.6	4595.9	5257.4	6112.0	6118.4	5906.3
32.5°	5592.9	4687.7	4197.1	4092.6	4279.4	4747.8	5504.3	6859.0	7042.6	6928.7
35°	5817.7	4842.8	4269.9	4174.9	4406.0	4950.4	5779.7	7612.3	7995.3	7957.4
37.5°	6029.7	5016.9	4440.8	4349.0	4599.1	5124.5	6045.6	8353.0	8884.8	9017.7
40°	6251.3	5260.6	4966.2	5054.9	5194.1	5399.9	6283.0	8995.5	9862.8	10062.2
42.5°	6773.6	6105.7	6555.2	6722.9	6741.9	6317.8	6802.1	9818.5	10825.0	11062.4
45°	7938.4	7609.2	8897.4	9134.8	9011.4	7726.3	8052.3	11005.5	12170.3	12290.5
47.5°	9410.2	9562.1	12103.8	12923.6	12182.9	9388.0	9568.5	13502.8	14632.8	14588.5
50°	11125.7	11844.2	15743.8	17677.7	15905.2	11546.7	11315.7	16573.1	17943.6	17807.5
52.5°	13154.6	14496.7	20118.1	22865.5	21188.0	13974.4	13879.5	20640.4	21476.0	21042.4
55°	15709.0	17057.4	25150.8	28990.2	26603.7	16937.1	17263.1	25356.6	25518.0	24141.1
57.5°	19519.9	20396.7	31082.4	36013.8	32256.7	20963.2	23327.7	31633.2	29702.4	27094.3
60°	26439.1	24691.9	36814.6	43198.9	38270.6	26625.8	31326.2	35352.3	31095.1	27499.4
62.5°	28847.8	28338.2	40404.0	46237.5	42315.8	31275.5	33405.7	33244.3	29290.9	25967.4
65°	25198.3	27429.8	39761.5	44632.7	41796.7	30509.5	29977.8	30917.8	27258.9	23641.0
67.5°	23277.0	25296.4	37327.4	40204.6	38919.5	27910.9	26720.8	26464.4	22884.5	20004.2
70°	21339.9	23340.3	33798.2	34155.9	33557.6	23675.8	22112.2	20393.5	17104.8	14601.1
72.5°	19010.3	20111.8	28901.6	27205.0	26527.7	18595.7	18266.5	15357.6	12822.3	10673.1
75°	16579.4	16259.7	22533.2	18671.6	19178.1	14468.2	15427.3	11277.7	9394.4	7682.0
77.5°	12059.5	11822.1	15091.8	11341.0	12559.6	9476.7	8514.4	4500.9	4285.7	3697.0
80°	6729.3	8112.5	8150.4	6355.8	7928.9	6178.5	2130.2	148.8	95.0	139.3
82.5°	3127.2	3488.1	4418.6	2946.8	4523.1	3060.8	440.0	0.0	0.0	0.0
85°	1012.9	1481.3	1240.8	433.6	1095.2	1035.0	72.8	0.0	0.0	0.0
87.5°	60.1	123.4	31.7	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

(END OF REPORT)