

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: P643651

Luminaire Tested: GWS-SA6F-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643651
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-SAGF-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: 29721.3 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

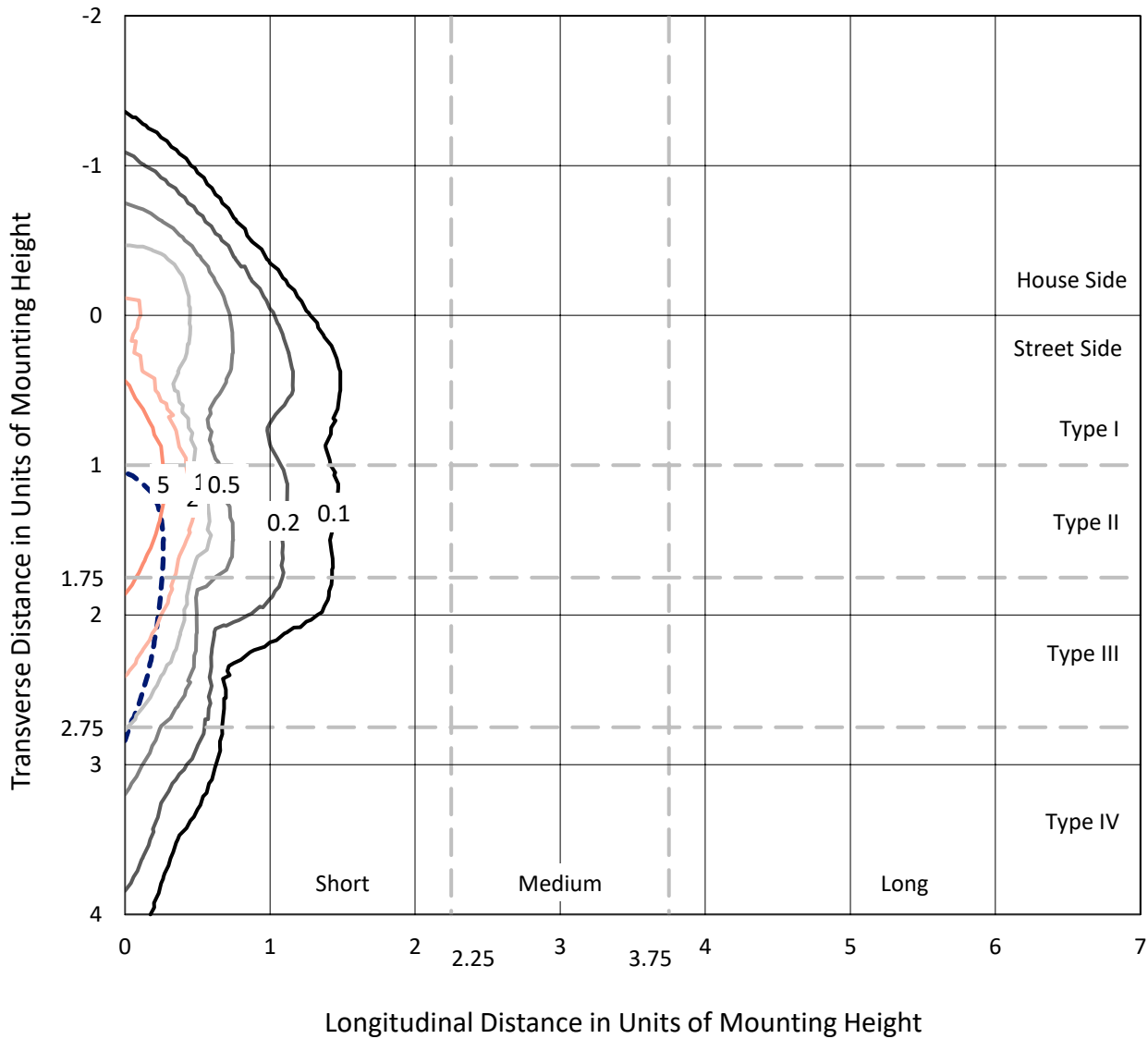
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643651
 CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

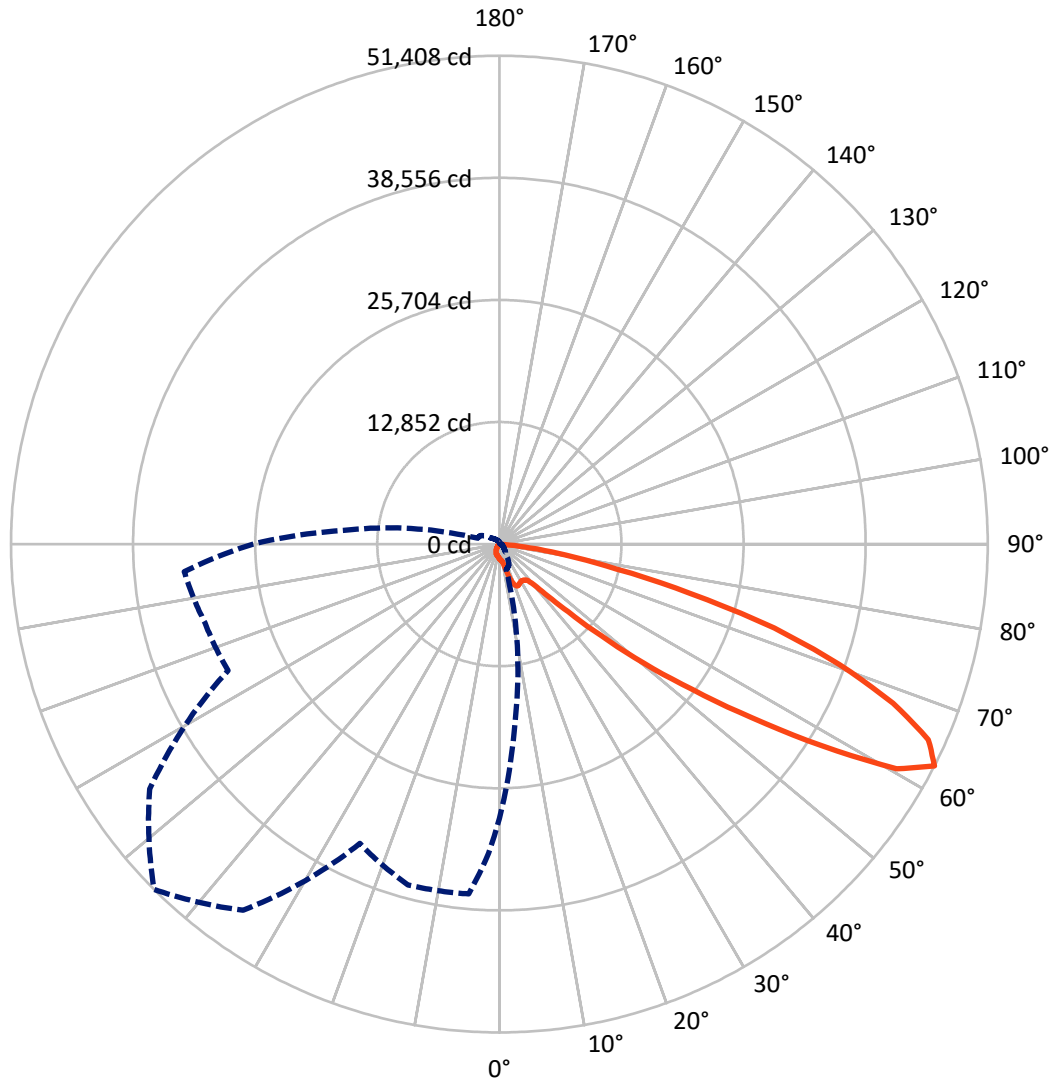
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

REPORT NUMBER: P643651
CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643651
 CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3453.2	0.0	3453.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	26268.1	0.0	26268.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	29721.3	0.0	29721.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	0.4
10°-20°	456.2	1.5
20°-30°	1030.7	3.5
30°-40°	1775.5	6.0
40°-50°	3349.3	11.3
50°-60°	7478.1	25.2
60°-70°	10001.9	33.7
70°-80°	5015.7	16.9
80°-90°	480.7	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°	29721.3	100.0
0°-180°	29721.3	100.0

Coefficient of Utilization



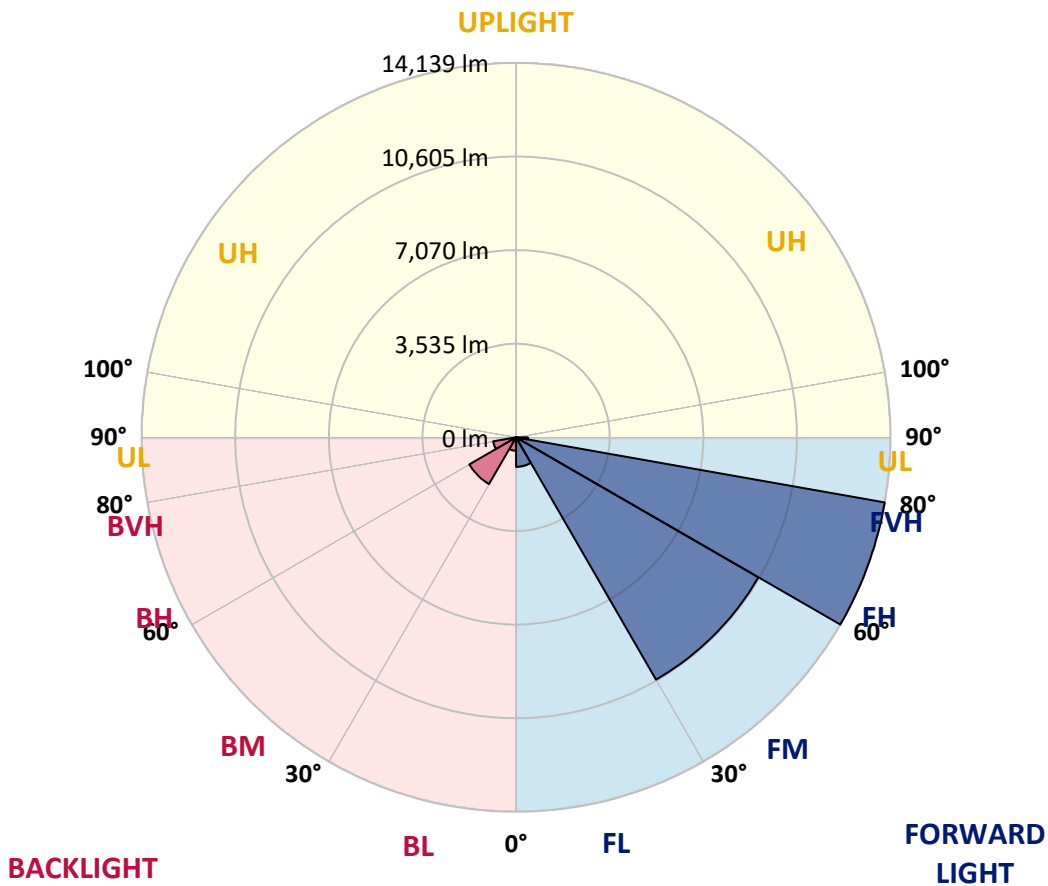
REPORT NUMBER: P643651

CATALOG NUMBER: GWS-SA6F-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°)	1113.1	3.7			
FM (30°-60°)	10566.8	35.6			
FH (60°-80°)	14139.4	47.6			G5
FVH (80°-90°)	448.8	1.5			G3/500
BL (0°-30°)	506.9	1.7	B2/1000		
BM (30°-60°)	2036.2	6.9	B2/2500		
BH (60°-80°)	878.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	32.0	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: P643651

CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1523.8	1520.3	1513.2	1492.1	1474.5	1464.0	1442.9	1442.9	1439.3	1432.3	1418.2
5°	1474.5	1460.4	1446.4	1407.7	1365.4	1340.8	1312.6	1309.1	1309.1	1302.1	1298.6
7.5°	1397.1	1383.0	1365.4	1302.1	1263.4	1238.7	1214.1	1210.6	1200.0	1200.0	1200.0
10°	1354.9	1333.8	1305.6	1235.2	1196.5	1175.4	1157.8	1147.2	1140.2	1129.6	1126.1
12.5°	1446.4	1407.7	1347.8	1221.1	1168.4	1140.2	1119.1	1112.1	1090.9	1076.9	1066.3
15°	1731.4	1636.4	1516.8	1252.8	1157.8	1115.6	1087.4	1073.3	1055.7	1031.1	1013.5
17.5°	2199.5	2062.2	1861.6	1354.9	1147.2	1094.5	1059.3	1034.6	1010.0	981.8	960.7
20°	2847.0	2642.9	2403.6	1541.4	1147.2	1069.8	1027.6	995.9	960.7	929.1	904.4
22.5°	3670.5	3466.4	3058.1	1858.1	1161.3	1038.2	988.9	946.7	904.4	876.3	848.1
25°	4592.5	4303.9	3923.9	2241.7	1200.0	995.9	943.1	900.9	862.2	827.0	795.3
27.5°	5620.1	5306.9	4800.1	2787.2	1284.5	953.7	893.9	855.2	820.0	784.8	742.5
30°	6566.7	6380.2	5862.9	3441.7	1421.7	925.5	855.2	820.0	784.8	739.0	700.3
32.5°	7703.4	7372.6	6946.8	4187.8	1604.7	897.4	823.5	774.2	746.1	703.8	661.6
35°	8847.2	8565.6	8006.1	5106.3	1808.8	869.2	784.8	739.0	714.4	665.1	619.4
37.5°	10026.1	9962.7	9410.2	6123.3	2009.4	837.6	739.0	710.9	686.2	629.9	577.1
40°	11187.4	11071.3	10561.0	7284.6	2132.6	802.4	700.3	682.7	654.6	591.2	531.4
42.5°	12299.4	12211.5	11715.3	8396.7	2115.0	770.7	661.6	640.5	619.4	556.0	482.1
45°	13664.9	13520.6	12894.2	9220.2	1935.5	805.9	622.9	587.7	584.2	524.4	432.9
47.5°	16219.8	15744.7	14681.9	9853.6	1756.1	897.4	580.7	538.4	563.1	492.7	383.6
50°	19798.8	19239.2	17701.3	10346.3	1752.5	1017.0	573.6	492.7	545.5	468.0	341.4
52.5°	23395.3	22410.0	20541.3	10610.2	1882.7	1105.0	637.0	446.9	524.4	443.4	309.7
55°	26840.6	24796.0	21730.8	9737.5	1984.8	1200.0	753.1	422.3	485.6	415.3	292.1
57.5°	30124.0	26713.9	22248.1	7703.4	2326.2	1238.7	823.5	432.9	429.3	380.1	278.0
60°	30574.4	26622.4	21202.9	4479.9	2565.5	1171.9	795.3	482.1	376.5	337.8	253.4
62.5°	28871.1	24852.3	18820.4	2794.2	2382.5	1147.2	707.3	549.0	341.4	299.1	221.7
65°	26284.6	22075.7	15691.9	1801.8	1805.3	1273.9	619.4	538.4	320.2	263.9	190.0
67.5°	22241.1	18475.6	12362.8	1207.1	1020.6	1087.4	541.9	369.5	313.2	225.2	147.8
70°	16233.9	13151.1	8048.3	805.9	608.8	869.2	454.0	263.9	295.6	186.5	105.6
72.5°	11866.6	8836.6	4494.0	527.9	344.9	506.8	334.3	190.0	228.7	137.2	73.9
75°	8541.0	6081.1	2565.5	337.8	228.7	278.0	218.2	130.2	147.8	109.1	66.9
77.5°	4110.4	2963.1	1164.8	186.5	154.8	140.8	116.1	80.9	91.5	98.5	59.8
80°	154.8	116.1	88.0	91.5	98.5	63.3	52.8	42.2	52.8	66.9	31.7
82.5°	0.0	0.0	0.0	10.6	14.1	17.6	21.1	17.6	21.1	24.6	3.5
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: P643651

CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1428.8	1421.7	1428.8	1435.8	1442.9	1449.9	1439.3	1446.4	1453.4	1435.8	1442.9
5°	1316.2	1312.6	1333.8	1344.3	1358.4	1365.4	1358.4	1358.4	1354.9	1333.8	1333.8
7.5°	1217.6	1221.1	1238.7	1263.4	1281.0	1291.5	1284.5	1281.0	1270.4	1238.7	1238.7
10°	1143.7	1143.7	1171.9	1193.0	1217.6	1228.2	1221.1	1210.6	1200.0	1168.4	1164.8
12.5°	1083.9	1083.9	1105.0	1140.2	1168.4	1182.4	1178.9	1164.8	1147.2	1115.6	1112.1
15°	1027.6	1024.1	1055.7	1087.4	1126.1	1143.7	1136.7	1126.1	1094.5	1066.3	1059.3
17.5°	971.3	967.8	995.9	1038.2	1080.4	1105.0	1101.5	1076.9	1048.7	1013.5	1006.5
20°	915.0	907.9	943.1	985.4	1027.6	1052.2	1045.2	1024.1	988.9	953.7	946.7
22.5°	858.7	855.2	879.8	915.0	953.7	974.8	971.3	953.7	918.5	886.8	886.8
25°	795.3	795.3	812.9	837.6	865.7	876.3	879.8	872.8	851.6	834.0	834.0
27.5°	742.5	732.0	739.0	746.1	760.1	777.7	777.7	784.8	788.3	781.3	784.8
30°	700.3	682.7	672.2	658.1	651.0	658.1	665.1	689.8	714.4	728.5	735.5
32.5°	651.0	629.9	601.8	563.1	538.4	531.4	552.5	598.3	644.0	675.7	693.3
35°	601.8	573.6	520.8	464.5	432.9	422.3	446.9	499.7	566.6	622.9	647.5
37.5°	552.5	513.8	439.9	373.0	337.8	330.8	355.4	411.7	489.2	566.6	598.3
40°	496.2	450.5	362.5	292.1	263.9	256.9	278.0	334.3	415.3	503.2	552.5
42.5°	439.9	383.6	292.1	232.3	204.1	204.1	232.3	274.5	348.4	443.4	503.2
45°	383.6	323.8	239.3	186.5	168.9	172.4	190.0	232.3	292.1	390.6	446.9
47.5°	330.8	278.0	197.1	154.8	140.8	144.3	165.4	200.6	249.9	337.8	397.7
50°	285.1	235.8	172.4	130.2	119.7	126.7	147.8	179.5	221.7	299.1	348.4
52.5°	256.9	211.1	158.4	112.6	105.6	112.6	133.7	161.9	200.6	263.9	313.2
55°	242.8	207.6	158.4	102.1	91.5	98.5	119.7	147.8	179.5	239.3	281.5
57.5°	239.3	214.7	168.9	91.5	77.4	84.5	105.6	133.7	165.4	218.2	253.4
60°	225.2	204.1	165.4	73.9	59.8	70.4	88.0	116.1	151.3	204.1	235.8
62.5°	197.1	179.5	144.3	59.8	45.7	52.8	73.9	102.1	137.2	186.5	221.7
65°	161.9	144.3	112.6	38.7	28.2	35.2	56.3	88.0	119.7	168.9	200.6
67.5°	119.7	102.1	77.4	24.6	14.1	24.6	45.7	73.9	109.1	151.3	183.0
70°	73.9	59.8	42.2	14.1	10.6	21.1	42.2	70.4	98.5	140.8	172.4
72.5°	42.2	28.2	17.6	7.0	10.6	21.1	42.2	70.4	95.0	133.7	161.9
75°	31.7	17.6	7.0	3.5	7.0	17.6	38.7	63.3	91.5	126.7	154.8
77.5°	21.1	10.6	3.5	0.0	3.5	14.1	35.2	59.8	84.5	119.7	147.8
80°	3.5	0.0	0.0	0.0	0.0	10.6	31.7	52.8	77.4	105.6	130.2
82.5°	0.0	0.0	0.0	0.0	0.0	3.5	24.6	45.7	66.9	88.0	105.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	14.1	35.2	52.8	66.9	73.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	35.2	42.2	49.3
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: P643651

CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1439.3	1460.4	1460.4	1474.5	1492.1	1523.8	1541.4	1566.0	1583.6	1601.2	1608.3
5°	1330.2	1333.8	1337.3	1344.3	1365.4	1400.6	1432.3	1471.0	1516.8	1551.9	1573.1
7.5°	1238.7	1238.7	1238.7	1249.3	1270.4	1295.0	1326.7	1379.5	1432.3	1474.5	1509.7
10°	1161.3	1171.9	1175.4	1193.0	1217.6	1249.3	1284.5	1330.2	1390.1	1446.4	1509.7
12.5°	1112.1	1122.6	1140.2	1157.8	1182.4	1217.6	1256.3	1316.2	1439.3	1555.5	1689.2
15°	1066.3	1080.4	1101.5	1126.1	1154.3	1193.0	1235.2	1358.4	1647.0	1865.2	2076.3
17.5°	1017.0	1038.2	1066.3	1090.9	1126.1	1168.4	1221.1	1460.4	2027.0	2389.5	2748.5
20°	953.7	981.8	1013.5	1052.2	1094.5	1143.7	1221.1	1671.6	2576.0	3096.9	3571.9
22.5°	893.9	922.0	960.7	1010.0	1059.3	1108.5	1238.7	1991.8	3283.4	3941.5	4543.2
25°	844.6	879.8	918.5	960.7	1017.0	1073.3	1281.0	2442.3	4135.0	4983.1	5408.9
27.5°	798.8	841.1	879.8	915.0	964.2	1027.6	1376.0	3044.1	5141.5	6003.7	6338.0
30°	753.1	802.4	841.1	876.3	925.5	992.4	1520.3	3811.2	6260.6	7098.1	7133.3
32.5°	714.4	760.1	805.9	841.1	886.8	964.2	1720.9	4708.6	7407.8	8217.2	7886.4
35°	672.2	724.9	767.2	805.9	855.2	939.6	1953.1	5676.4	8565.6	9244.8	8636.0
37.5°	629.9	689.8	742.5	770.7	820.0	915.0	2122.0	6686.4	9748.1	10247.8	9294.1
40°	591.2	658.1	717.9	746.1	770.7	883.3	2146.7	7721.0	10948.1	11236.7	9913.5
42.5°	549.0	622.9	675.7	714.4	735.5	862.2	1998.9	8593.8	11954.6	12222.0	10722.9
45°	503.2	591.2	633.4	661.6	703.8	876.3	1808.8	9269.5	13105.3	13566.3	12056.6
47.5°	457.5	556.0	591.2	612.3	668.6	960.7	1738.5	9719.9	15002.2	15959.4	14305.4
50°	415.3	524.4	563.1	559.5	661.6	1069.8	1815.9	10061.3	17852.7	18978.8	17388.1
52.5°	369.5	489.2	534.9	520.8	714.4	1154.3	1970.7	10332.2	20045.1	22519.1	21530.2
55°	330.8	450.5	492.7	489.2	812.9	1217.6	2090.4	8903.5	20953.0	25809.5	26196.6
57.5°	302.6	408.2	443.4	503.2	876.3	1217.6	2417.7	6320.4	20970.6	28230.7	32390.3
60°	278.0	369.5	394.1	552.5	851.6	1154.3	2393.0	3871.1	19327.2	28065.3	35684.2
62.5°	256.9	334.3	366.0	566.6	753.1	1143.7	2160.8	2400.1	16483.7	25929.1	33294.7
65°	239.3	306.2	351.9	520.8	682.7	1224.7	1456.9	1724.4	13369.3	23493.9	30553.3
67.5°	221.7	281.5	373.0	425.8	619.4	1094.5	1052.2	1224.7	10494.1	20822.8	28037.1
70°	207.6	267.5	394.1	348.4	541.9	855.2	746.1	929.1	8034.2	17374.1	24493.3
72.5°	197.1	249.9	330.8	274.5	439.9	661.6	520.8	675.7	5250.6	13562.8	19967.7
75°	186.5	228.7	242.8	221.7	327.3	432.9	394.1	454.0	3128.5	9913.5	15150.0
77.5°	183.0	214.7	197.1	179.5	221.7	256.9	299.1	306.2	1527.3	4958.5	7939.2
80°	161.9	193.6	168.9	147.8	151.3	168.9	221.7	204.1	348.4	1259.9	2118.5
82.5°	126.7	151.3	140.8	123.2	123.2	123.2	147.8	137.2	112.6	566.6	957.2
85°	88.0	105.6	105.6	98.5	95.0	95.0	91.5	88.0	31.7	35.2	52.8
87.5°	59.8	73.9	77.4	73.9	63.3	56.3	49.3	42.2	14.1	0.0	7.0
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: P643651

CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1632.9	1643.4	1643.4	1629.4	1618.8	1590.7	1562.5	1534.4	1527.3	1523.8
5°	1632.9	1675.1	1696.2	1692.7	1668.1	1622.3	1562.5	1499.2	1481.6	1474.5
7.5°	1608.3	1689.2	1752.5	1763.1	1717.3	1636.4	1527.3	1432.3	1407.7	1397.1
10°	1664.6	1822.9	1949.6	1967.2	1914.4	1756.1	1580.1	1418.2	1379.5	1354.9
12.5°	1967.2	2227.6	2382.5	2456.4	2354.3	2153.7	1861.6	1573.1	1485.1	1446.4
15°	2579.5	2949.1	3244.7	3244.7	3149.6	2794.2	2424.7	1956.6	1837.0	1731.4
17.5°	3364.3	3828.8	4089.3	4061.1	3916.8	3667.0	3223.5	2551.4	2308.6	2199.5
20°	4258.2	4536.2	4596.0	4578.4	4515.1	4370.8	4064.6	3343.2	3015.9	2847.0
22.5°	5032.4	4958.5	4870.5	4800.1	4782.5	4824.8	4782.5	4226.5	3969.6	3670.5
25°	5556.7	5138.0	4874.0	4747.3	4807.2	5050.0	5313.9	5106.3	4902.2	4592.5
27.5°	5841.8	5116.8	4736.8	4606.6	4708.6	5053.5	5627.1	5979.0	5767.9	5620.1
30°	5996.6	5099.3	4648.8	4522.1	4677.0	5109.8	5845.3	6795.5	6802.5	6566.7
32.5°	6218.3	5211.9	4666.4	4550.3	4757.9	5278.7	6119.8	7626.0	7830.1	7703.4
35°	6468.2	5384.3	4747.3	4641.8	4898.7	5504.0	6426.0	8463.6	8889.4	8847.2
37.5°	6704.0	5577.9	4937.4	4835.3	5113.3	5697.5	6721.6	9287.0	9878.3	10026.1
40°	6950.3	5848.8	5521.6	5620.1	5774.9	6003.7	6985.5	10001.4	10965.7	11187.4
42.5°	7531.0	6788.4	7288.2	7474.7	7495.8	7024.2	7562.7	10916.4	12035.5	12299.4
45°	8826.0	8460.0	9892.3	10156.3	10019.0	8590.3	8952.7	12236.1	13531.1	13664.9
47.5°	10462.4	10631.4	13457.2	14368.7	13545.2	10437.8	10638.4	15012.7	16269.0	16219.8
50°	12369.8	13168.7	17504.3	19654.5	17683.7	12837.9	12581.0	18426.3	19950.1	19798.8
52.5°	14625.6	16117.7	22367.7	25422.4	23557.2	15537.1	15431.5	22948.4	23877.5	23395.3
55°	17465.6	18964.7	27963.2	32231.9	29578.5	18831.0	19193.5	28191.9	28371.4	26840.6
57.5°	21702.6	22677.4	34558.1	40040.9	35863.7	23307.4	25936.2	35170.4	33023.7	30124.0
60°	29395.5	27452.9	40931.3	48029.4	42550.1	29603.1	34829.1	39305.4	34572.2	30574.4
62.5°	32073.6	31507.0	44922.0	51407.8	47047.6	34772.8	37141.1	36961.7	32566.2	28871.1
65°	28016.0	30497.0	44207.6	49623.6	46470.4	33921.1	33329.9	34375.1	30307.0	26284.6
67.5°	25879.9	28125.1	41501.4	44700.3	43271.5	31031.9	29708.7	29423.6	25443.5	22241.1
70°	23726.1	25950.2	37577.5	37975.2	37310.1	26323.3	24584.8	22673.9	19017.5	16233.9
72.5°	21136.0	22360.7	32133.4	30247.1	29494.0	20675.0	20309.0	17074.9	14256.1	11866.6
75°	18433.3	18077.9	25052.9	20759.5	21322.6	16086.1	17152.4	12538.7	10444.8	8541.0
77.5°	13408.0	13144.0	16779.3	12609.1	13964.0	10536.3	9466.5	5004.2	4764.9	4110.4
80°	7481.7	9019.6	9061.8	7066.5	8815.5	6869.4	2368.4	165.4	105.6	154.8
82.5°	3476.9	3878.1	4912.7	3276.3	5028.9	3403.0	489.2	0.0	0.0	0.0
85°	1126.1	1647.0	1379.5	482.1	1217.6	1150.8	80.9	0.0	0.0	0.0
87.5°	66.9	137.2	35.2	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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