

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: P642716

Luminaire Tested: GWS-SA6D-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642716
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-SA6D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21688.9 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

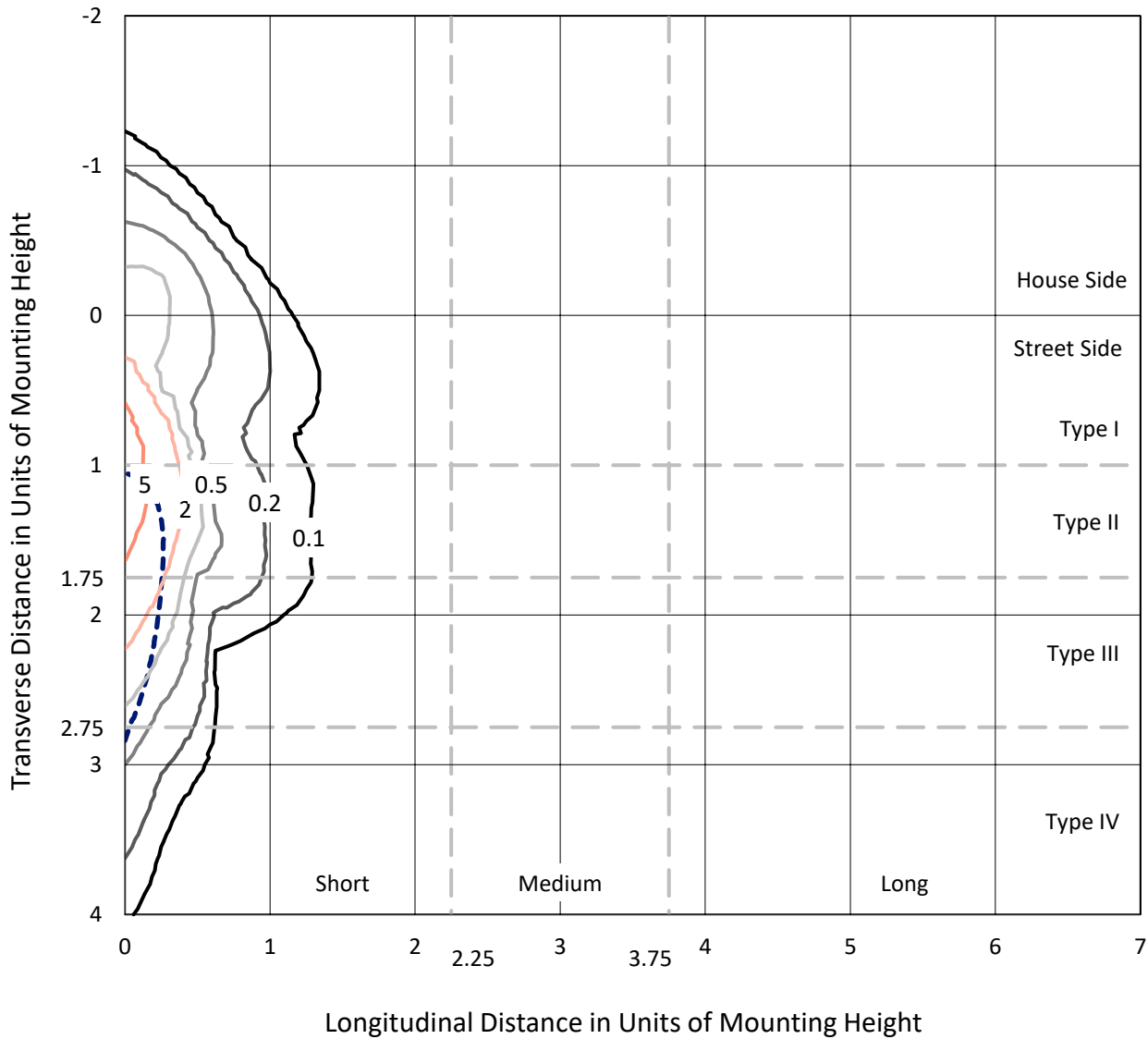
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642716
 CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

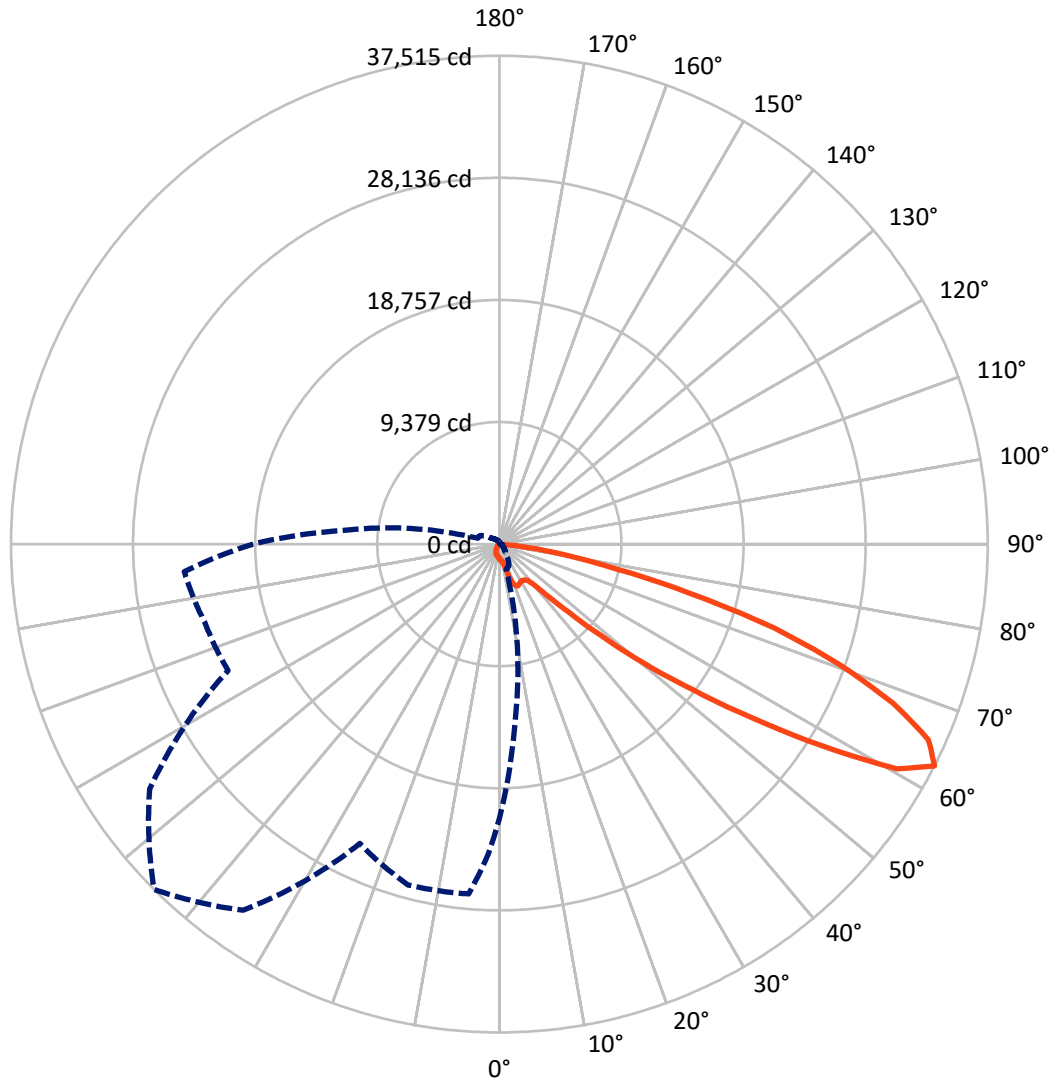
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P642716
CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P642716
 CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2520.0	0.0	2520.0
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	19168.9	0.0	19168.9
	% Fixture	88.4	0.0	88.4
Total	Lumens	21688.9	0.0	21688.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	0.4
10°-20°	332.9	1.5
20°-30°	752.1	3.5
30°-40°	1295.7	6.0
40°-50°	2444.2	11.3
50°-60°	5457.1	25.2
60°-70°	7298.8	33.7
70°-80°	3660.1	16.9
80°-90°	350.8	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°	21688.9	100.0
0°-180°	21688.9	100.0

Coefficient of Utilization



REPORT NUMBER: P642716

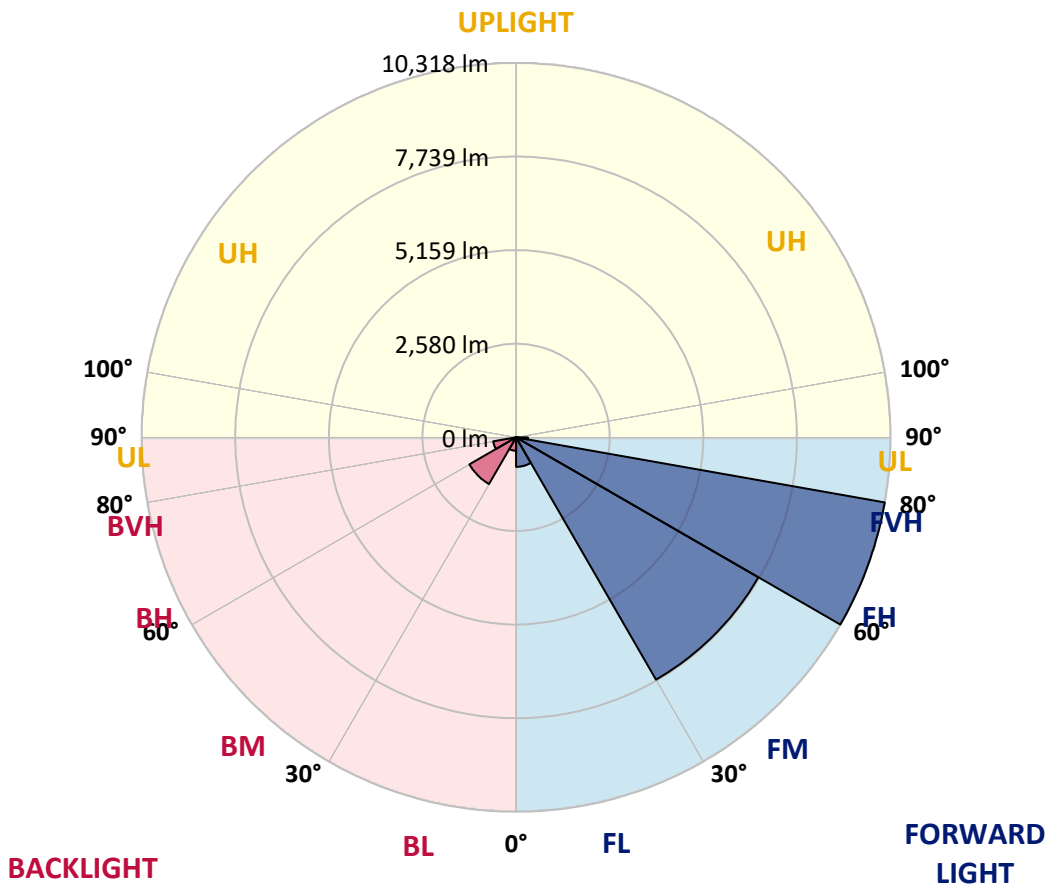
CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.3	3.7			
FM (30°-60°)	7711.0	35.6			
FH (60°-80°)	10318.1	47.6			G4/12000
FVH (80°-90°)	327.5	1.5			G3/500
BL (0°-30°)	369.9	1.7	B1/500		
BM (30°-60°)	1485.9	6.9	B2/2500		
BH (60°-80°)	640.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	23.3	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-G4

Type III Short





REPORT NUMBER: P642716

CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1112.0	1109.4	1104.3	1088.9	1076.0	1068.3	1052.9	1052.9	1050.3	1045.2	1034.9
5°	1076.0	1065.8	1055.5	1027.2	996.4	978.4	957.9	955.3	955.3	950.2	947.6
7.5°	1019.5	1009.3	996.4	950.2	921.9	904.0	886.0	883.4	875.7	875.7	875.7
10°	988.7	973.3	952.8	901.4	873.1	857.7	844.9	837.2	832.1	824.4	821.8
12.5°	1055.5	1027.2	983.6	891.1	852.6	832.1	816.6	811.5	796.1	785.8	778.1
15°	1263.5	1194.2	1106.8	914.2	844.9	814.1	793.5	783.3	770.4	752.4	739.6
17.5°	1605.0	1504.9	1358.5	988.7	837.2	798.7	773.0	755.0	737.0	716.5	701.1
20°	2077.6	1928.6	1754.0	1124.8	837.2	780.7	749.9	726.8	701.1	678.0	660.0
22.5°	2678.5	2529.6	2231.7	1355.9	847.5	757.6	721.6	690.8	660.0	639.5	618.9
25°	3351.3	3140.8	2863.4	1635.9	875.7	726.8	688.2	657.4	629.2	603.5	580.4
27.5°	4101.2	3872.7	3502.9	2033.9	937.3	695.9	652.3	624.0	598.4	572.7	541.9
30°	4792.0	4655.9	4278.4	2511.6	1037.5	675.4	624.0	598.4	572.7	539.3	511.0
32.5°	5621.5	5380.1	5069.4	3056.0	1171.0	654.9	600.9	565.0	544.4	513.6	482.8
35°	6456.1	6250.7	5842.4	3726.3	1320.0	634.3	572.7	539.3	521.3	485.4	452.0
37.5°	7316.5	7270.2	6867.0	4468.5	1466.4	611.2	539.3	518.8	500.8	459.7	421.2
40°	8163.9	8079.2	7706.8	5315.9	1556.3	585.5	511.0	498.2	477.7	431.4	387.8
42.5°	8975.4	8911.2	8549.1	6127.4	1543.4	562.4	482.8	467.4	452.0	405.8	351.8
45°	9971.8	9866.5	9409.4	6728.4	1412.4	588.1	454.5	428.9	426.3	382.6	315.9
47.5°	11836.3	11489.6	10714.0	7190.6	1281.5	654.9	423.7	392.9	410.9	359.5	279.9
50°	14448.0	14039.7	12917.4	7550.1	1278.9	742.2	418.6	359.5	398.1	341.6	249.1
52.5°	17072.6	16353.5	14989.9	7742.8	1373.9	806.4	464.8	326.1	382.6	323.6	226.0
55°	19586.7	18094.7	15857.9	7105.9	1448.4	875.7	549.6	308.2	354.4	303.0	213.2
57.5°	21982.7	19494.3	16235.4	5621.5	1697.5	904.0	600.9	315.9	313.3	277.4	202.9
60°	22311.4	19427.5	15472.7	3269.2	1872.1	855.2	580.4	351.8	274.8	246.5	184.9
62.5°	21068.5	18135.8	13734.1	2039.1	1738.6	837.2	516.2	400.6	249.1	218.3	161.8
65°	19181.0	16109.5	11451.1	1314.9	1317.4	929.6	452.0	392.9	233.7	192.6	138.7
67.5°	16230.2	13482.4	9021.7	880.9	744.7	793.5	395.5	269.6	228.6	164.4	107.9
70°	11846.5	9596.9	5873.2	588.1	444.3	634.3	331.3	192.6	215.7	136.1	77.0
72.5°	8659.6	6448.4	3279.4	385.2	251.7	369.8	244.0	138.7	166.9	100.2	53.9
75°	6232.7	4437.6	1872.1	246.5	166.9	202.9	159.2	95.0	107.9	79.6	48.8
77.5°	2999.5	2162.3	850.0	136.1	113.0	102.7	84.7	59.1	66.8	71.9	43.7
80°	113.0	84.7	64.2	66.8	71.9	46.2	38.5	30.8	38.5	48.8	23.1
82.5°	0.0	0.0	0.0	7.7	10.3	12.8	15.4	12.8	15.4	18.0	2.6
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: P642716

CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1042.6	1037.5	1042.6	1047.8	1052.9	1058.0	1050.3	1055.5	1060.6	1047.8	1052.9
5°	960.5	957.9	973.3	981.0	991.3	996.4	991.3	991.3	988.7	973.3	973.3
7.5°	888.6	891.1	904.0	921.9	934.8	942.5	937.3	934.8	927.1	904.0	904.0
10°	834.6	834.6	855.2	870.6	888.6	896.3	891.1	883.4	875.7	852.6	850.0
12.5°	791.0	791.0	806.4	832.1	852.6	862.9	860.3	850.0	837.2	814.1	811.5
15°	749.9	747.3	770.4	793.5	821.8	834.6	829.5	821.8	798.7	778.1	773.0
17.5°	708.8	706.2	726.8	757.6	788.4	806.4	803.8	785.8	765.3	739.6	734.5
20°	667.7	662.6	688.2	719.1	749.9	767.9	762.7	747.3	721.6	695.9	690.8
22.5°	626.6	624.0	642.0	667.7	695.9	711.4	708.8	695.9	670.3	647.2	647.2
25°	580.4	580.4	593.2	611.2	631.7	639.5	642.0	636.9	621.5	608.6	608.6
27.5°	541.9	534.2	539.3	544.4	554.7	567.5	567.5	572.7	575.2	570.1	572.7
30°	511.0	498.2	490.5	480.2	475.1	480.2	485.4	503.3	521.3	531.6	536.7
32.5°	475.1	459.7	439.1	410.9	392.9	387.8	403.2	436.6	470.0	493.1	505.9
35°	439.1	418.6	380.1	339.0	315.9	308.2	326.1	364.7	413.5	454.5	472.5
37.5°	403.2	374.9	321.0	272.2	246.5	241.4	259.4	300.5	357.0	413.5	436.6
40°	362.1	328.7	264.5	213.2	192.6	187.5	202.9	244.0	303.0	367.2	403.2
42.5°	321.0	279.9	213.2	169.5	148.9	148.9	169.5	200.3	254.2	323.6	367.2
45°	279.9	236.3	174.6	136.1	123.3	125.8	138.7	169.5	213.2	285.1	326.1
47.5°	241.4	202.9	143.8	113.0	102.7	105.3	120.7	146.4	182.3	246.5	290.2
50°	208.0	172.1	125.8	95.0	87.3	92.5	107.9	131.0	161.8	218.3	254.2
52.5°	187.5	154.1	115.6	82.2	77.0	82.2	97.6	118.1	146.4	192.6	228.6
55°	177.2	151.5	115.6	74.5	66.8	71.9	87.3	107.9	131.0	174.6	205.4
57.5°	174.6	156.7	123.3	66.8	56.5	61.6	77.0	97.6	120.7	159.2	184.9
60°	164.4	148.9	120.7	53.9	43.7	51.4	64.2	84.7	110.4	148.9	172.1
62.5°	143.8	131.0	105.3	43.7	33.4	38.5	53.9	74.5	100.2	136.1	161.8
65°	118.1	105.3	82.2	28.2	20.5	25.7	41.1	64.2	87.3	123.3	146.4
67.5°	87.3	74.5	56.5	18.0	10.3	18.0	33.4	53.9	79.6	110.4	133.5
70°	53.9	43.7	30.8	10.3	7.7	15.4	30.8	51.4	71.9	102.7	125.8
72.5°	30.8	20.5	12.8	5.1	7.7	15.4	30.8	51.4	69.3	97.6	118.1
75°	23.1	12.8	5.1	2.6	5.1	12.8	28.2	46.2	66.8	92.5	113.0
77.5°	15.4	7.7	2.6	0.0	2.6	10.3	25.7	43.7	61.6	87.3	107.9
80°	2.6	0.0	0.0	0.0	0.0	7.7	23.1	38.5	56.5	77.0	95.0
82.5°	0.0	0.0	0.0	0.0	0.0	2.6	18.0	33.4	48.8	64.2	77.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.3	25.7	38.5	48.8	53.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	25.7	30.8	36.0
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: P642716

CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1050.3	1065.8	1065.8	1076.0	1088.9	1112.0	1124.8	1142.8	1155.6	1168.5	1173.6
5°	970.7	973.3	975.9	981.0	996.4	1022.1	1045.2	1073.5	1106.8	1132.5	1147.9
7.5°	904.0	904.0	904.0	911.7	927.1	945.1	968.2	1006.7	1045.2	1076.0	1101.7
10°	847.5	855.2	857.7	870.6	888.6	911.7	937.3	970.7	1014.4	1055.5	1101.7
12.5°	811.5	819.2	832.1	844.9	862.9	888.6	916.8	960.5	1050.3	1135.1	1232.7
15°	778.1	788.4	803.8	821.8	842.3	870.6	901.4	991.3	1201.9	1361.1	1515.2
17.5°	742.2	757.6	778.1	796.1	821.8	852.6	891.1	1065.8	1479.2	1743.7	2005.7
20°	695.9	716.5	739.6	767.9	798.7	834.6	891.1	1219.8	1879.8	2259.9	2606.6
22.5°	652.3	672.8	701.1	737.0	773.0	808.9	904.0	1453.5	2396.0	2876.2	3315.4
25°	616.3	642.0	670.3	701.1	742.2	783.3	934.8	1782.2	3017.5	3636.4	3947.1
27.5°	583.0	613.8	642.0	667.7	703.7	749.9	1004.1	2221.4	3752.0	4381.1	4625.1
30°	549.6	585.5	613.8	639.5	675.4	724.2	1109.4	2781.2	4568.6	5179.8	5205.5
32.5°	521.3	554.7	588.1	613.8	647.2	703.7	1255.8	3436.1	5405.8	5996.5	5755.1
35°	490.5	529.0	559.8	588.1	624.0	685.7	1425.3	4142.3	6250.7	6746.3	6302.1
37.5°	459.7	503.3	541.9	562.4	598.4	667.7	1548.6	4879.3	7113.6	7478.2	6782.3
40°	431.4	480.2	523.9	544.4	562.4	644.6	1566.5	5634.4	7989.3	8199.9	7234.3
42.5°	400.6	454.5	493.1	521.3	536.7	629.2	1458.7	6271.2	8723.8	8918.9	7824.9
45°	367.2	431.4	462.3	482.8	513.6	639.5	1320.0	6764.3	9563.5	9899.9	8798.2
47.5°	333.8	405.8	431.4	446.8	487.9	701.1	1268.6	7093.0	10947.7	11646.2	10439.2
50°	303.0	382.6	410.9	408.3	482.8	780.7	1325.1	7342.1	13027.9	13849.6	12688.9
52.5°	269.6	357.0	390.3	380.1	521.3	842.3	1438.1	7539.9	14627.8	16433.1	15711.5
55°	241.4	328.7	359.5	357.0	593.2	888.6	1525.4	6497.2	15290.3	18834.3	19116.8
57.5°	220.9	297.9	323.6	367.2	639.5	888.6	1764.3	4612.3	15303.2	20601.1	23636.6
60°	202.9	269.6	287.6	403.2	621.5	842.3	1746.3	2824.9	14103.9	20480.4	26040.3
62.5°	187.5	244.0	267.1	413.5	549.6	834.6	1576.8	1751.4	12028.9	18921.6	24296.6
65°	174.6	223.4	256.8	380.1	498.2	893.7	1063.2	1258.4	9756.1	17144.5	22296.0
67.5°	161.8	205.4	272.2	310.7	452.0	798.7	767.9	893.7	7658.0	15195.3	20459.9
70°	151.5	195.2	287.6	254.2	395.5	624.0	544.4	678.0	5862.9	12678.6	17873.8
72.5°	143.8	182.3	241.4	200.3	321.0	482.8	380.1	493.1	3831.6	9897.4	14571.3
75°	136.1	166.9	177.2	161.8	238.8	315.9	287.6	331.3	2283.0	7234.3	11055.6
77.5°	133.5	156.7	143.8	131.0	161.8	187.5	218.3	223.4	1114.5	3618.4	5793.6
80°	118.1	141.2	123.3	107.9	110.4	123.3	161.8	148.9	254.2	919.4	1546.0
82.5°	92.5	110.4	102.7	89.9	89.9	89.9	107.9	100.2	82.2	413.5	698.5
85°	64.2	77.0	77.0	71.9	69.3	69.3	66.8	64.2	23.1	25.7	38.5
87.5°	43.7	53.9	56.5	53.9	46.2	41.1	36.0	30.8	10.3	0.0	5.1
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: P642716

CATALOG NUMBER: GWS-SA6D-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1191.6	1199.3	1199.3	1189.0	1181.3	1160.8	1140.2	1119.7	1114.5	1112.0
5°	1191.6	1222.4	1237.8	1235.2	1217.3	1183.9	1140.2	1094.0	1081.2	1076.0
7.5°	1173.6	1232.7	1278.9	1286.6	1253.2	1194.2	1114.5	1045.2	1027.2	1019.5
10°	1214.7	1330.3	1422.7	1435.6	1397.0	1281.5	1153.1	1034.9	1006.7	988.7
12.5°	1435.6	1625.6	1738.6	1792.5	1718.0	1571.7	1358.5	1147.9	1083.7	1055.5
15°	1882.4	2152.0	2367.8	2367.8	2298.4	2039.1	1769.4	1427.9	1340.5	1263.5
17.5°	2455.1	2794.1	2984.1	2963.6	2858.3	2675.9	2352.4	1861.9	1684.7	1605.0
20°	3107.4	3310.3	3353.9	3341.1	3294.8	3189.6	2966.1	2439.7	2200.8	2077.6
22.5°	3672.3	3618.4	3554.2	3502.9	3490.0	3520.8	3490.0	3084.3	2896.8	2678.5
25°	4055.0	3749.4	3556.8	3464.3	3508.0	3685.2	3877.8	3726.3	3577.3	3351.3
27.5°	4263.0	3734.0	3456.6	3361.6	3436.1	3687.8	4106.4	4363.2	4209.1	4101.2
30°	4376.0	3721.1	3392.4	3300.0	3413.0	3728.8	4265.6	4959.0	4964.1	4792.0
32.5°	4537.8	3803.3	3405.3	3320.5	3472.0	3852.1	4465.9	5565.0	5714.0	5621.5
35°	4720.1	3929.2	3464.3	3387.3	3574.8	4016.5	4689.3	6176.2	6487.0	6456.1
37.5°	4892.2	4070.4	3603.0	3528.5	3731.4	4157.7	4905.0	6777.2	7208.6	7316.5
40°	5072.0	4268.1	4029.3	4101.2	4214.2	4381.1	5097.6	7298.5	8002.1	8163.9
42.5°	5495.7	4953.8	5318.5	5454.6	5470.0	5125.9	5518.8	7966.2	8782.8	8975.4
45°	6440.7	6173.7	7218.9	7411.5	7311.3	6268.7	6533.2	8929.2	9874.3	9971.8
47.5°	7634.9	7758.2	9820.3	10485.5	9884.5	7616.9	7763.3	10955.4	11872.2	11836.3
50°	9026.8	9609.7	12773.6	14342.7	12904.6	9368.3	9180.9	13446.4	14558.4	14448.0
52.5°	10672.9	11761.8	16322.7	18551.8	17190.7	11338.1	11261.0	16746.4	17424.4	17072.6
55°	12745.4	13839.4	20405.9	23521.0	21584.7	13741.8	14006.3	20572.9	20703.8	19586.7
57.5°	15837.3	16548.7	25218.5	29219.6	26171.3	17008.4	18926.7	25665.4	24098.8	21982.7
60°	21451.1	20033.6	29869.3	35049.1	31050.6	21602.7	25416.3	28682.8	25228.8	22311.4
62.5°	23405.4	22992.0	32781.5	37514.5	34332.6	25375.2	27103.5	26972.5	23765.0	21068.5
65°	20444.5	22255.0	32260.2	36212.4	33911.5	24753.7	24322.3	25085.0	22116.3	19181.0
67.5°	18885.6	20524.1	30285.3	32619.7	31577.1	22645.3	21679.7	21471.7	18567.2	16230.2
70°	17314.0	18937.0	27421.9	27712.1	27226.7	19209.2	17940.6	16546.1	13877.9	11846.5
72.5°	15423.9	16317.6	23449.1	22072.6	21523.0	15087.4	14820.4	12460.3	10403.3	8659.6
75°	13451.6	13192.2	18282.1	15149.1	15560.0	11738.7	12516.8	9150.1	7622.1	6232.7
77.5°	9784.4	9591.8	12244.6	9201.4	10190.1	7688.8	6908.1	3651.8	3477.2	2999.5
80°	5459.7	6582.0	6612.8	5156.7	6433.0	5012.9	1728.3	120.7	77.0	113.0
82.5°	2537.3	2830.0	3585.0	2390.9	3669.8	2483.3	357.0	0.0	0.0	0.0
85°	821.8	1201.9	1006.7	351.8	888.6	839.8	59.1	0.0	0.0	0.0
87.5°	48.8	100.2	25.7	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

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