

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: P642936

Luminaire Tested: GWS-SA6D-830-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642936  
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-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

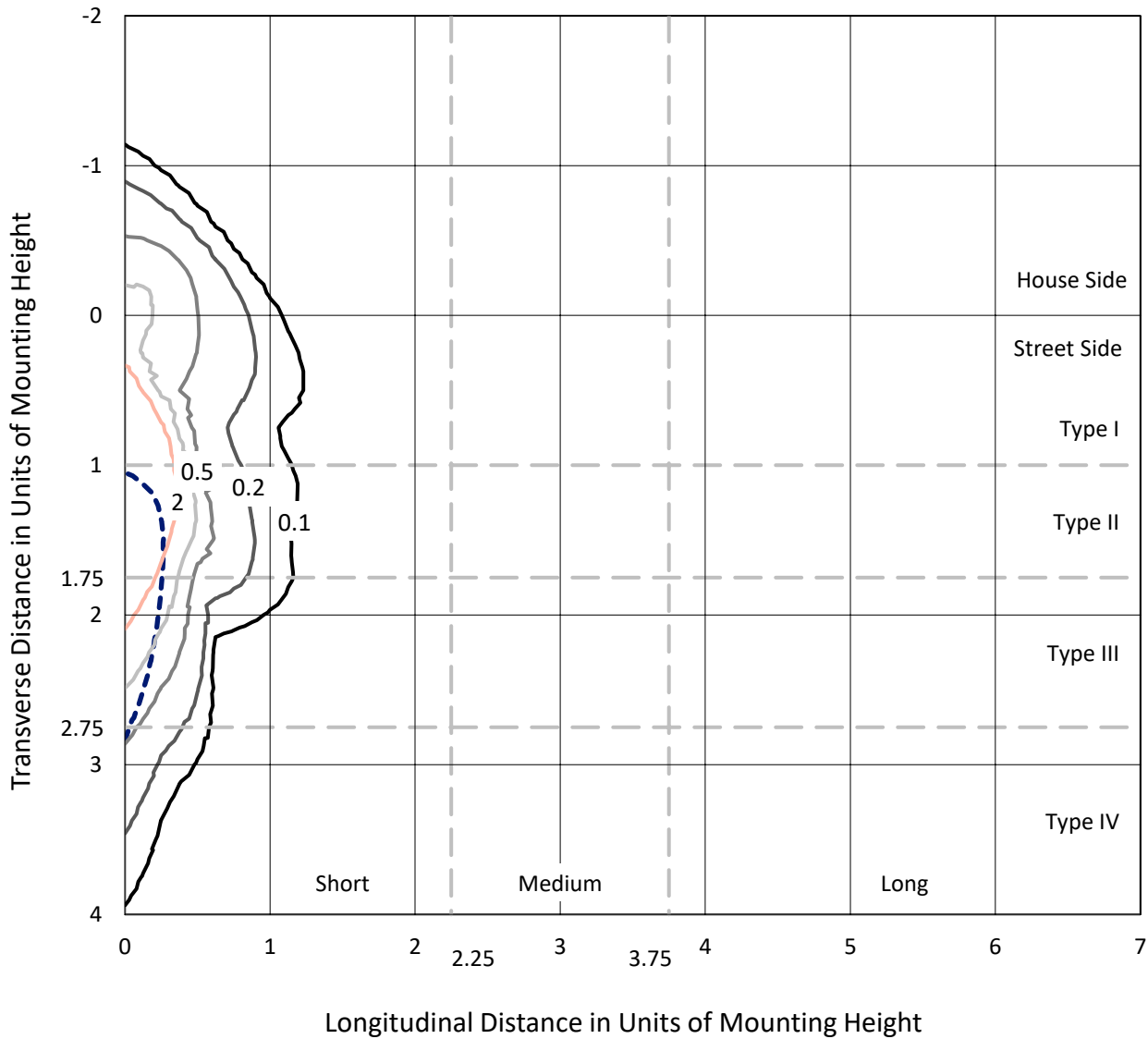
Lumens per Lamp: N/A  
Luminaire Lumens: 17229.4 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P642936  
 CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

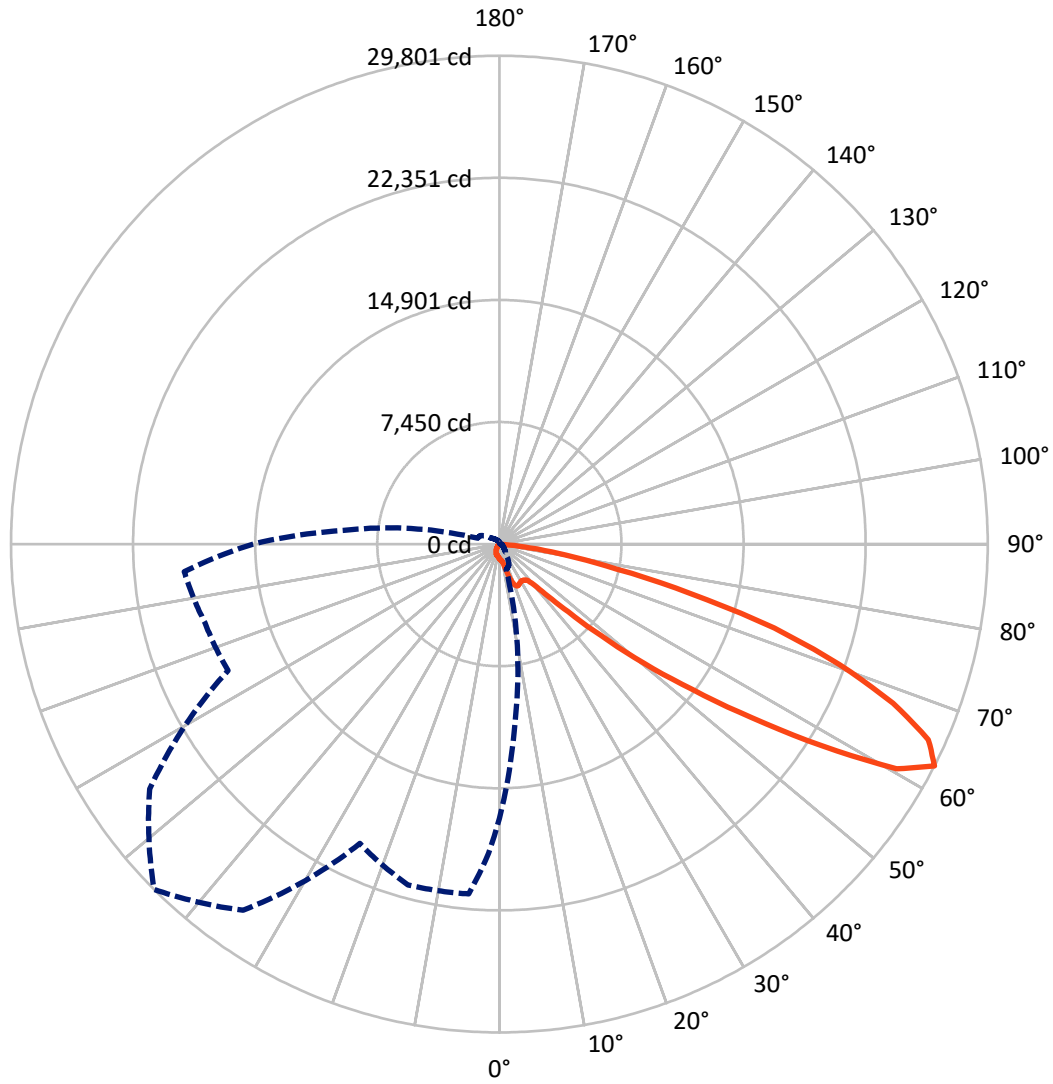
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P642936  
CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P642936  
 CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

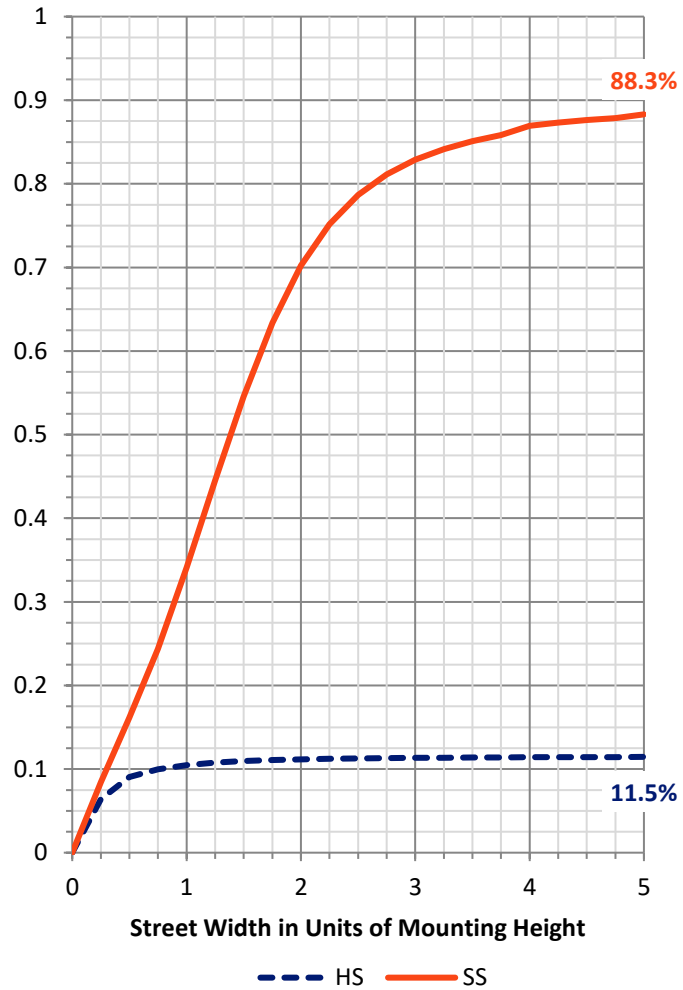
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2001.8	0.0	2001.8
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	15227.6	0.0	15227.6
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	17229.4	0.0	17229.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	0.4
10°-20°	264.5	1.5
20°-30°	597.5	3.5
30°-40°	1029.3	6.0
40°-50°	1941.6	11.3
50°-60°	4335.1	25.2
60°-70°	5798.1	33.7
70°-80°	2907.6	16.9
80°-90°	278.7	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°	17229.4	100.0
0°-180°	17229.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642936

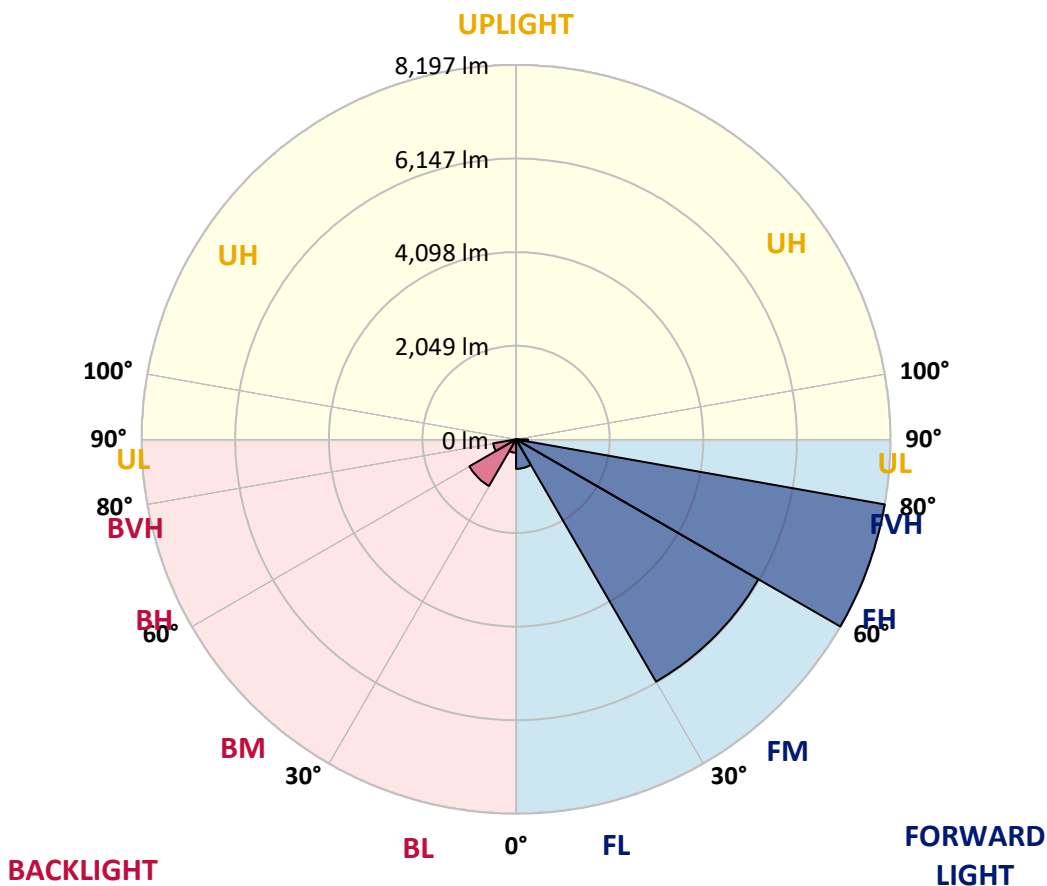
CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.3	3.7			
FM (30°-60°)	6125.6	35.6			
FH (60°-80°)	8196.6	47.6			G4/12000
FVH (80°-90°)	260.1	1.5			G3/500
BL (0°-30°)	293.8	1.7	B1/500		
BM (30°-60°)	1180.4	6.9	B2/2500		
BH (60°-80°)	509.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	18.5	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: P642936

CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	883.3	881.3	877.2	865.0	854.8	848.7	836.4	836.4	834.4	830.3	822.1
5°	854.8	846.6	838.5	816.0	791.5	777.3	760.9	758.9	758.9	754.8	752.8
7.5°	809.9	801.7	791.5	754.8	732.4	718.1	703.8	701.8	695.7	695.7	695.7
10°	785.4	773.2	756.9	716.1	693.6	681.4	671.2	665.1	661.0	654.9	652.8
12.5°	838.5	816.0	781.3	707.9	677.3	661.0	648.7	644.7	632.4	624.3	618.1
15°	1003.7	948.6	879.3	726.3	671.2	646.7	630.4	622.2	612.0	597.7	587.5
17.5°	1275.0	1195.5	1079.2	785.4	665.1	634.5	614.1	599.8	585.5	569.2	556.9
20°	1650.4	1532.1	1393.4	893.5	665.1	620.2	595.7	577.3	556.9	538.6	524.3
22.5°	2127.8	2009.4	1772.8	1077.1	673.2	601.8	573.3	548.8	524.3	508.0	491.7
25°	2662.3	2495.0	2274.7	1299.5	695.7	577.3	546.7	522.3	499.8	479.4	461.1
27.5°	3258.0	3076.4	2782.6	1615.7	744.6	552.9	518.2	495.7	475.3	454.9	430.5
30°	3806.7	3698.6	3398.7	1995.2	824.2	536.5	495.7	475.3	454.9	428.4	406.0
32.5°	4465.7	4273.9	4027.1	2427.7	930.3	520.2	477.4	448.8	432.5	408.0	383.5
35°	5128.7	4965.5	4641.1	2960.1	1048.6	503.9	454.9	428.4	414.1	385.6	359.0
37.5°	5812.1	5775.4	5455.1	3549.7	1164.9	485.5	428.4	412.1	397.8	365.2	334.6
40°	6485.3	6418.0	6122.2	4222.9	1236.3	465.1	406.0	395.8	379.4	342.7	308.0
42.5°	7130.0	7079.0	6791.3	4867.6	1226.1	446.8	383.5	371.3	359.0	322.3	279.5
45°	7921.5	7837.9	7474.7	5344.9	1122.0	467.2	361.1	340.7	338.6	304.0	250.9
47.5°	9402.6	9127.2	8511.1	5712.1	1018.0	520.2	336.6	312.1	326.4	285.6	222.4
50°	11477.3	11152.9	10261.4	5997.7	1015.9	589.6	332.5	285.6	316.2	271.3	197.9
52.5°	13562.2	12991.0	11907.8	6150.7	1091.4	640.6	369.2	259.1	304.0	257.0	179.5
55°	15559.5	14374.2	12597.3	5644.8	1150.6	695.7	436.6	244.8	281.5	240.7	169.3
57.5°	17462.8	15486.0	12897.2	4465.7	1348.5	718.1	477.4	250.9	248.9	220.3	161.2
60°	17723.9	15433.0	12291.3	2597.0	1487.2	679.3	461.1	279.5	218.3	195.8	146.9
62.5°	16736.6	14406.8	10910.2	1619.8	1381.1	665.1	410.0	318.2	197.9	173.4	128.5
65°	15237.1	12797.2	9096.6	1044.5	1046.5	738.5	359.0	312.1	185.6	153.0	110.2
67.5°	12893.1	10710.3	7166.7	699.7	591.6	630.4	314.2	214.2	181.6	130.6	85.7
70°	9410.7	7623.7	4665.6	467.2	352.9	503.9	263.2	153.0	171.4	108.1	61.2
72.5°	6879.0	5122.6	2605.1	306.0	199.9	293.8	193.8	110.2	132.6	79.6	42.8
75°	4951.2	3525.2	1487.2	195.8	132.6	161.2	126.5	75.5	85.7	63.2	38.8
77.5°	2382.8	1717.7	675.3	108.1	89.8	81.6	67.3	46.9	53.0	57.1	34.7
80°	89.8	67.3	51.0	53.0	57.1	36.7	30.6	24.5	30.6	38.8	18.4
82.5°	0.0	0.0	0.0	6.1	8.2	10.2	12.2	10.2	12.2	14.3	2.0
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: P642936

CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	828.3	824.2	828.3	832.3	836.4	840.5	834.4	838.5	842.5	832.3	836.4
5°	763.0	760.9	773.2	779.3	787.5	791.5	787.5	787.5	785.4	773.2	773.2
7.5°	705.9	707.9	718.1	732.4	742.6	748.7	744.6	742.6	736.5	718.1	718.1
10°	663.0	663.0	679.3	691.6	705.9	712.0	707.9	701.8	695.7	677.3	675.3
12.5°	628.3	628.3	640.6	661.0	677.3	685.5	683.4	675.3	665.1	646.7	644.7
15°	595.7	593.7	612.0	630.4	652.8	663.0	658.9	652.8	634.5	618.1	614.1
17.5°	563.1	561.0	577.3	601.8	626.3	640.6	638.5	624.3	607.9	587.5	583.5
20°	530.4	526.3	546.7	571.2	595.7	610.0	605.9	593.7	573.3	552.9	548.8
22.5°	497.8	495.7	510.0	530.4	552.9	565.1	563.1	552.9	532.5	514.1	514.1
25°	461.1	461.1	471.3	485.5	501.9	508.0	510.0	505.9	493.7	483.5	483.5
27.5°	430.5	424.3	428.4	432.5	440.7	450.9	450.9	454.9	457.0	452.9	454.9
30°	406.0	395.8	389.6	381.5	377.4	381.5	385.6	399.8	414.1	422.3	426.4
32.5°	377.4	365.2	348.8	326.4	312.1	308.0	320.3	346.8	373.3	391.7	401.9
35°	348.8	332.5	301.9	269.3	250.9	244.8	259.1	289.7	328.4	361.1	375.4
37.5°	320.3	297.8	255.0	216.2	195.8	191.8	206.0	238.7	283.6	328.4	346.8
40°	287.6	261.1	210.1	169.3	153.0	148.9	161.2	193.8	240.7	291.7	320.3
42.5°	255.0	222.4	169.3	134.6	118.3	118.3	134.6	159.1	202.0	257.0	291.7
45°	222.4	187.7	138.7	108.1	97.9	100.0	110.2	134.6	169.3	226.4	259.1
47.5°	191.8	161.2	114.2	89.8	81.6	83.6	95.9	116.3	144.8	195.8	230.5
50°	165.2	136.7	100.0	75.5	69.4	73.4	85.7	104.0	128.5	173.4	202.0
52.5°	148.9	122.4	91.8	65.3	61.2	65.3	77.5	93.8	116.3	153.0	181.6
55°	140.8	120.4	91.8	59.2	53.0	57.1	69.4	85.7	104.0	138.7	163.2
57.5°	138.7	124.4	97.9	53.0	44.9	49.0	61.2	77.5	95.9	126.5	146.9
60°	130.6	118.3	95.9	42.8	34.7	40.8	51.0	67.3	87.7	118.3	136.7
62.5°	114.2	104.0	83.6	34.7	26.5	30.6	42.8	59.2	79.6	108.1	128.5
65°	93.8	83.6	65.3	22.4	16.3	20.4	32.6	51.0	69.4	97.9	116.3
67.5°	69.4	59.2	44.9	14.3	8.2	14.3	26.5	42.8	63.2	87.7	106.1
70°	42.8	34.7	24.5	8.2	6.1	12.2	24.5	40.8	57.1	81.6	100.0
72.5°	24.5	16.3	10.2	4.1	6.1	12.2	24.5	40.8	55.1	77.5	93.8
75°	18.4	10.2	4.1	2.0	4.1	10.2	22.4	36.7	53.0	73.4	89.8
77.5°	12.2	6.1	2.0	0.0	2.0	8.2	20.4	34.7	49.0	69.4	85.7
80°	2.0	0.0	0.0	0.0	0.0	6.1	18.4	30.6	44.9	61.2	75.5
82.5°	0.0	0.0	0.0	0.0	0.0	2.0	14.3	26.5	38.8	51.0	61.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.2	20.4	30.6	38.8	42.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	20.4	24.5	28.6
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: P642936

CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	834.4	846.6	846.6	854.8	865.0	883.3	893.5	907.8	918.0	928.2	932.3
5°	771.1	773.2	775.2	779.3	791.5	811.9	830.3	852.7	879.3	899.7	911.9
7.5°	718.1	718.1	718.1	724.2	736.5	750.7	769.1	799.7	830.3	854.8	875.2
10°	673.2	679.3	681.4	691.6	705.9	724.2	744.6	771.1	805.8	838.5	875.2
12.5°	644.7	650.8	661.0	671.2	685.5	705.9	728.3	763.0	834.4	901.7	979.2
15°	618.1	626.3	638.5	652.8	669.1	691.6	716.1	787.5	954.7	1081.2	1203.6
17.5°	589.6	601.8	618.1	632.4	652.8	677.3	707.9	846.6	1175.1	1385.2	1593.3
20°	552.9	569.2	587.5	610.0	634.5	663.0	707.9	969.0	1493.3	1795.2	2070.6
22.5°	518.2	534.5	556.9	585.5	614.1	642.6	718.1	1154.7	1903.4	2284.9	2633.7
25°	489.6	510.0	532.5	556.9	589.6	622.2	742.6	1415.8	2397.1	2888.7	3135.6
27.5°	463.1	487.6	510.0	530.4	559.0	595.7	797.7	1764.6	2980.5	3480.3	3674.1
30°	436.6	465.1	487.6	508.0	536.5	575.3	881.3	2209.4	3629.2	4114.8	4135.2
32.5°	414.1	440.7	467.2	487.6	514.1	559.0	997.6	2729.6	4294.3	4763.5	4571.7
35°	389.6	420.3	444.7	467.2	495.7	544.7	1132.2	3290.6	4965.5	5359.2	5006.3
37.5°	365.2	399.8	430.5	446.8	475.3	530.4	1230.1	3876.1	5650.9	5940.6	5387.8
40°	342.7	381.5	416.2	432.5	446.8	512.1	1244.4	4475.9	6346.6	6513.9	5746.8
42.5°	318.2	361.1	391.7	414.1	426.4	499.8	1158.7	4981.8	6930.0	7085.1	6216.0
45°	291.7	342.7	367.2	383.5	408.0	508.0	1048.6	5373.5	7597.1	7864.4	6989.2
47.5°	265.2	322.3	342.7	355.0	387.6	556.9	1007.8	5634.6	8696.7	9251.6	8292.8
50°	240.7	304.0	326.4	324.4	383.5	620.2	1052.7	5832.5	10349.2	11002.0	10079.9
52.5°	214.2	283.6	310.1	301.9	414.1	669.1	1142.4	5989.6	11620.1	13054.3	12481.0
55°	191.8	261.1	285.6	283.6	471.3	705.9	1211.8	5161.3	12146.5	14961.7	15186.1
57.5°	175.4	236.6	257.0	291.7	508.0	705.9	1401.5	3663.9	12156.7	16365.3	18776.6
60°	161.2	214.2	228.5	320.3	493.7	669.1	1387.2	2244.1	11203.9	16269.4	20686.1
62.5°	148.9	193.8	212.2	328.4	436.6	663.0	1252.6	1391.3	9555.6	15031.1	19300.9
65°	138.7	177.5	204.0	301.9	395.8	709.9	844.6	999.6	7750.1	13619.4	17711.7
67.5°	128.5	163.2	216.2	246.8	359.0	634.5	610.0	709.9	6083.4	12071.0	16253.1
70°	120.4	155.0	228.5	202.0	314.2	495.7	432.5	538.6	4657.4	10071.7	14198.7
72.5°	114.2	144.8	191.8	159.1	255.0	383.5	301.9	391.7	3043.8	7862.3	11575.2
75°	108.1	132.6	140.8	128.5	189.7	250.9	228.5	263.2	1813.6	5746.8	8782.4
77.5°	106.1	124.4	114.2	104.0	128.5	148.9	173.4	177.5	885.4	2874.4	4602.4
80°	93.8	112.2	97.9	85.7	87.7	97.9	128.5	118.3	202.0	730.3	1228.1
82.5°	73.4	87.7	81.6	71.4	71.4	71.4	85.7	79.6	65.3	328.4	554.9
85°	51.0	61.2	61.2	57.1	55.1	55.1	53.0	51.0	18.4	20.4	30.6
87.5°	34.7	42.8	44.9	42.8	36.7	32.6	28.6	24.5	8.2	0.0	4.1
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: P642936

CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	946.6	952.7	952.7	944.5	938.4	922.1	905.8	889.5	885.4	883.3
5°	946.6	971.1	983.3	981.3	967.0	940.5	905.8	869.1	858.9	854.8
7.5°	932.3	979.2	1015.9	1022.1	995.5	948.6	885.4	830.3	816.0	809.9
10°	964.9	1056.7	1130.2	1140.4	1109.8	1018.0	916.0	822.1	799.7	785.4
12.5°	1140.4	1291.4	1381.1	1424.0	1364.8	1248.5	1079.2	911.9	860.9	838.5
15°	1495.4	1709.6	1880.9	1880.9	1825.8	1619.8	1405.6	1134.3	1064.9	1003.7
17.5°	1950.3	2219.6	2370.5	2354.2	2270.6	2125.7	1868.7	1479.0	1338.3	1275.0
20°	2468.5	2629.6	2664.3	2654.1	2617.4	2533.7	2356.3	1938.0	1748.3	1650.4
22.5°	2917.3	2874.4	2823.4	2782.6	2772.4	2796.9	2772.4	2450.1	2301.2	2127.8
25°	3221.2	2978.5	2825.5	2752.0	2786.7	2927.5	3080.5	2960.1	2841.8	2662.3
27.5°	3386.5	2966.2	2745.9	2670.4	2729.6	2929.5	3262.0	3466.0	3343.6	3258.0
30°	3476.2	2956.0	2694.9	2621.5	2711.2	2962.2	3388.5	3939.3	3943.4	3806.7
32.5°	3604.8	3021.3	2705.1	2637.8	2758.1	3060.1	3547.6	4420.8	4539.1	4465.7
35°	3749.6	3121.3	2752.0	2690.8	2839.7	3190.6	3725.1	4906.3	5153.2	5128.7
37.5°	3886.3	3233.5	2862.2	2803.0	2964.2	3302.8	3896.5	5383.7	5726.4	5812.1
40°	4029.1	3390.6	3200.8	3258.0	3347.7	3480.3	4049.5	5797.8	6356.8	6485.3
42.5°	4365.7	3935.3	4224.9	4333.1	4345.3	4071.9	4384.1	6328.2	6977.0	7130.0
45°	5116.4	4904.3	5734.6	5887.6	5808.0	4979.8	5189.9	7093.3	7844.0	7921.5
47.5°	6065.1	6163.0	7801.1	8329.5	7852.1	6050.8	6167.1	8702.8	9431.1	9402.6
50°	7170.8	7633.9	10147.2	11393.7	10251.2	7442.1	7293.2	10681.7	11565.0	11477.3
52.5°	8478.4	9343.4	12966.6	14737.3	13656.1	9006.8	8945.6	13303.2	13841.7	13562.2
55°	10124.8	10993.8	16210.2	18684.8	17146.6	10916.3	11126.4	16342.8	16446.9	15559.5
57.5°	12581.0	13146.1	20033.3	23211.7	20790.1	13511.2	15035.2	20388.2	19143.8	17462.8
60°	17040.5	15914.4	23727.8	27842.6	24666.2	17160.9	20190.4	22785.3	20041.4	17723.9
62.5°	18593.0	18264.6	26041.2	29801.0	27273.4	20157.7	21530.7	21426.6	18878.6	16736.6
65°	16240.8	17679.1	25627.1	28766.7	26938.8	19664.0	19321.3	19927.2	17568.9	15237.1
67.5°	15002.5	16304.1	24058.3	25912.7	25084.4	17989.2	17222.1	17056.8	14749.6	12893.1
70°	13754.0	15043.3	21783.6	22014.2	21628.6	15259.6	14251.8	13144.0	11024.4	9410.7
72.5°	12252.5	12962.5	18627.7	17534.2	17097.7	11985.3	11773.1	9898.3	8264.2	6879.0
75°	10685.8	10479.7	14523.1	12034.2	12360.7	9325.1	9943.2	7268.7	6054.9	4951.2
77.5°	7772.6	7619.6	9727.0	7309.5	8094.9	6107.9	5487.7	2900.9	2762.2	2382.8
80°	4337.1	5228.6	5253.1	4096.4	5110.3	3982.2	1373.0	95.9	61.2	89.8
82.5°	2015.6	2248.1	2847.9	1899.3	2915.2	1972.7	283.6	0.0	0.0	0.0
85°	652.8	954.7	799.7	279.5	705.9	667.1	46.9	0.0	0.0	0.0
87.5°	38.8	79.6	20.4	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)