

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: P639966

Luminaire Tested: GWS-SA5C-830-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639966  
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-SA5C-830-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

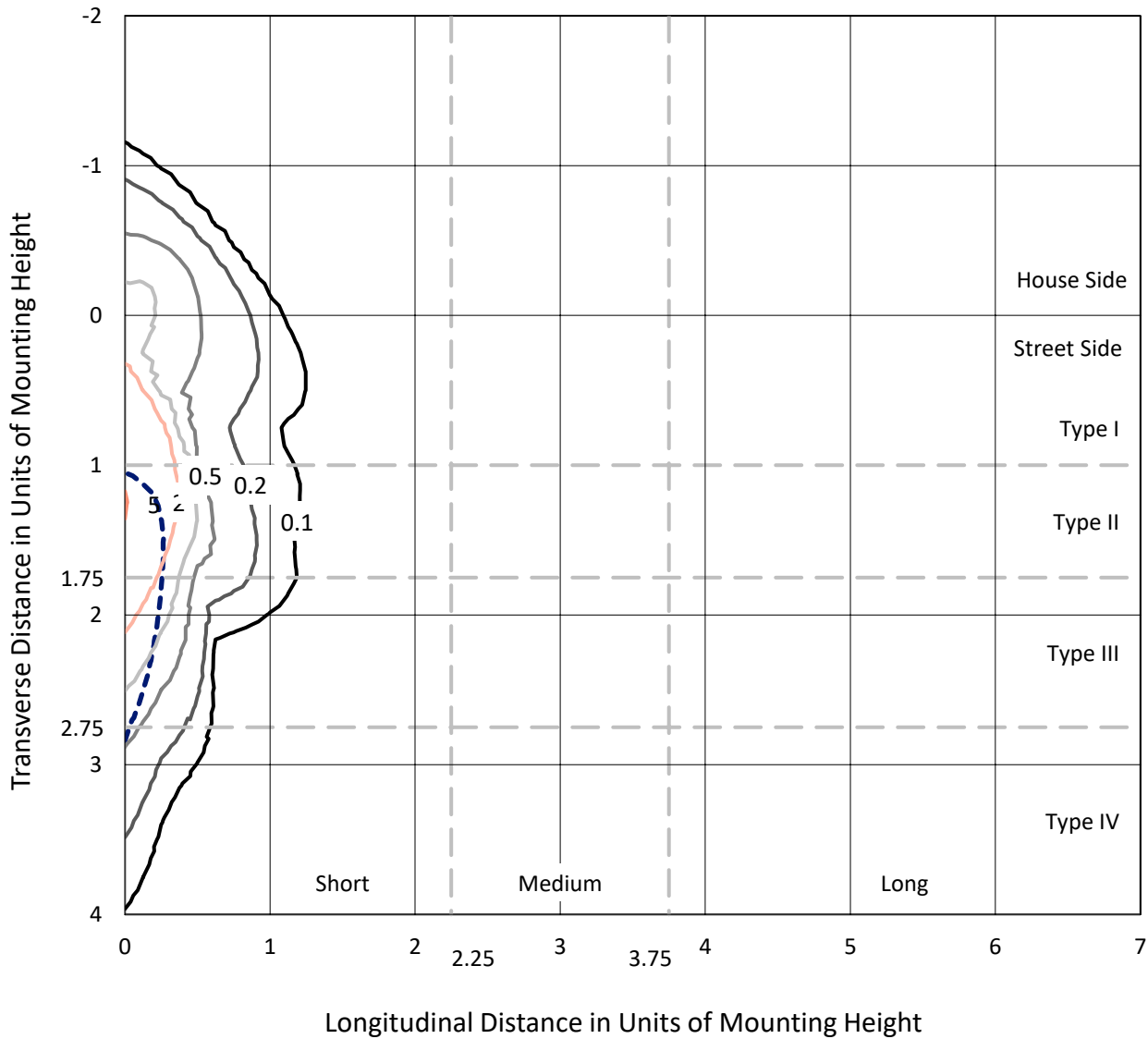
Lumens per Lamp: N/A  
Luminaire Lumens: 11453.3 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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: P639966  
 CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

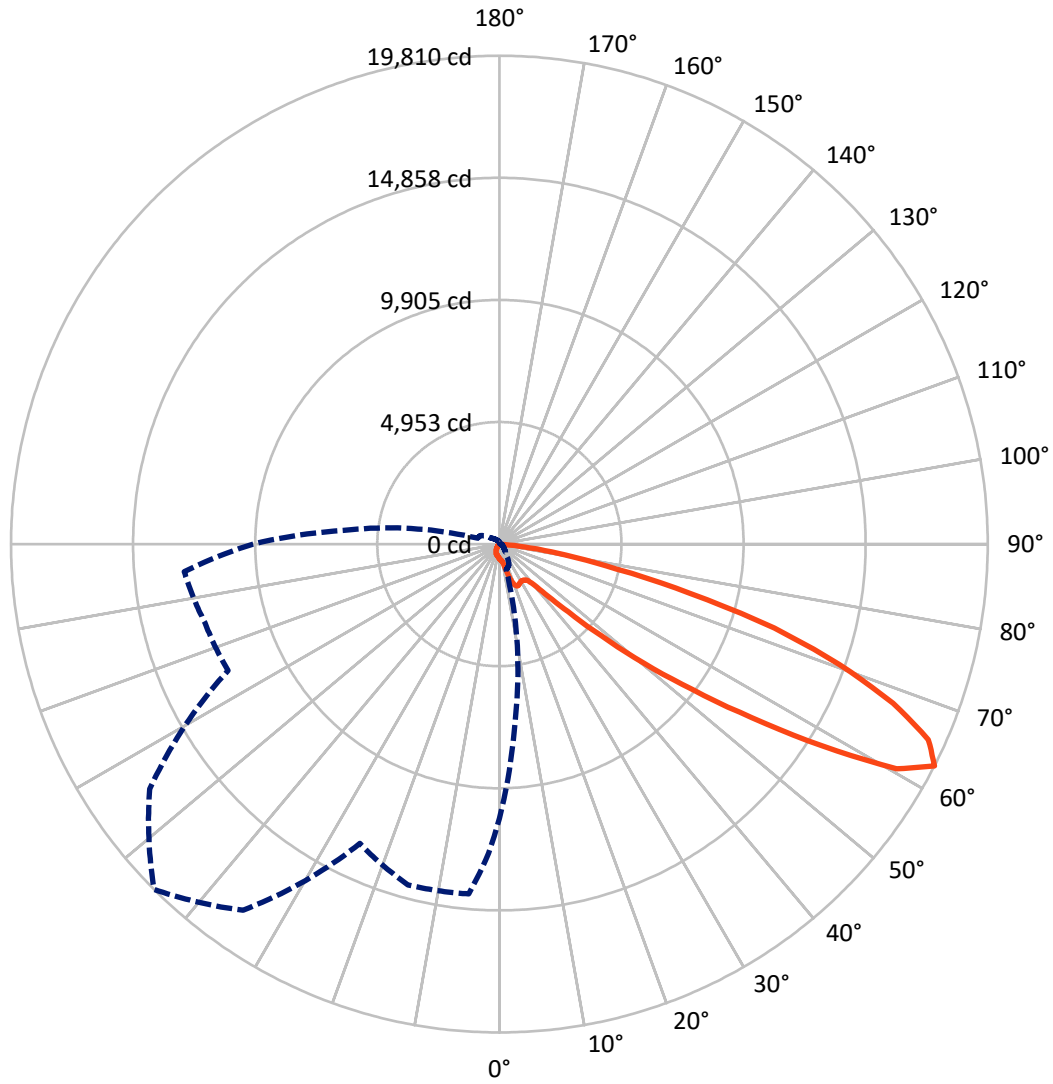
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P639966  
CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

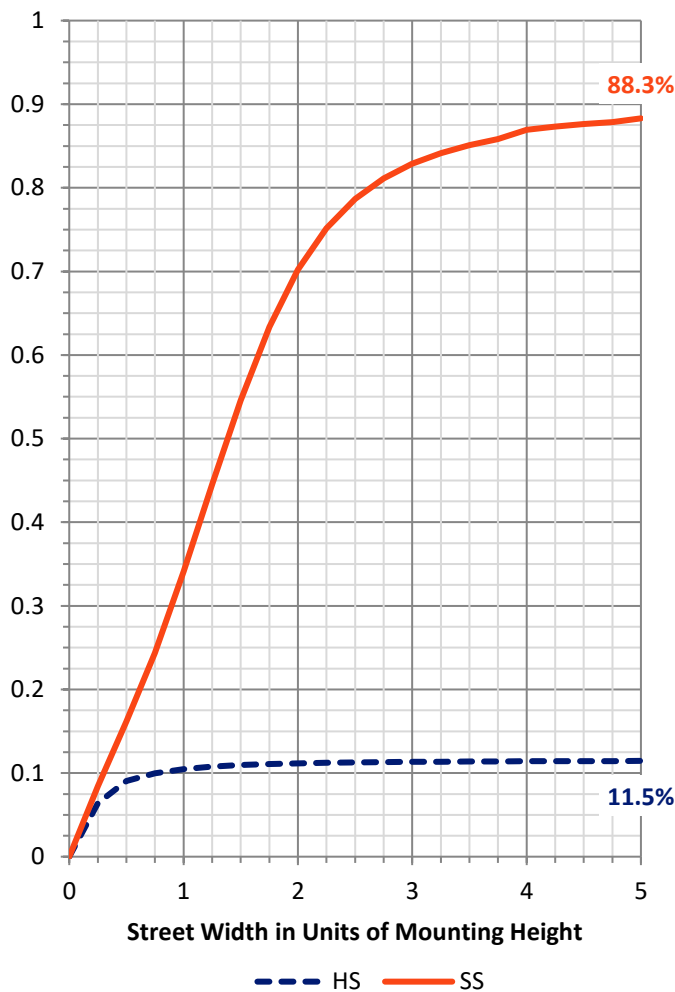
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1330.7	0.0	1330.7
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	10122.6	0.0	10122.6
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	11453.3	0.0	11453.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.3	0.4
10°-20°	175.8	1.5
20°-30°	397.2	3.5
30°-40°	684.2	6.0
40°-50°	1290.7	11.3
50°-60°	2881.7	25.2
60°-70°	3854.3	33.7
70°-80°	1932.8	16.9
80°-90°	185.3	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°	11453.3	100.0
0°-180°	11453.3	100.0

**Coefficient of Utilization**

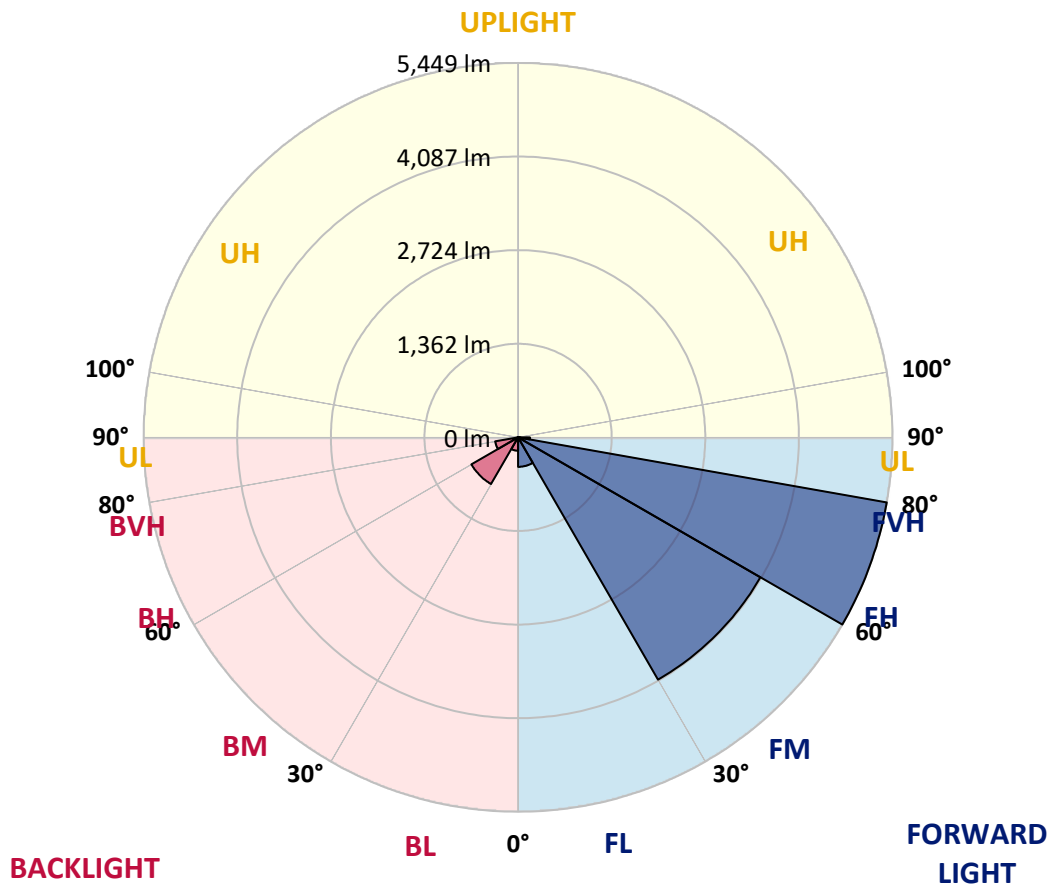


REPORT NUMBER: P639966  
 CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.9	3.7			
FM (30°-60°)	4072.0	35.6			
FH (60°-80°)	5448.7	47.6			G3/7500
FVH (80°-90°)	172.9	1.5			G2/225
BL (0°-30°)	195.3	1.7	B1/500		
BM (30°-60°)	784.7	6.9	B1/1000		
BH (60°-80°)	338.4	3.0	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type III Short





REPORT NUMBER: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	587.2	585.8	583.1	575.0	568.2	564.1	556.0	556.0	554.7	551.9	546.5
5°	568.2	562.8	557.4	542.5	526.2	516.7	505.8	504.5	504.5	501.8	500.4
7.5°	538.4	533.0	526.2	501.8	486.9	477.4	467.9	466.5	462.4	462.4	462.4
10°	522.1	514.0	503.1	476.0	461.1	452.9	446.2	442.1	439.4	435.3	434.0
12.5°	557.4	542.5	519.4	470.6	450.2	439.4	431.2	428.5	420.4	415.0	410.9
15°	667.2	630.6	584.5	482.8	446.2	429.9	419.0	413.6	406.8	397.3	390.6
17.5°	847.6	794.7	717.4	522.1	442.1	421.8	408.2	398.7	389.2	378.4	370.2
20°	1097.1	1018.5	926.2	594.0	442.1	412.3	396.0	383.8	370.2	358.0	348.5
22.5°	1414.4	1335.8	1178.5	716.0	447.5	400.1	381.1	364.8	348.5	337.7	326.8
25°	1769.7	1658.5	1512.1	863.9	462.4	383.8	363.4	347.2	332.3	318.7	306.5
27.5°	2165.7	2045.0	1849.8	1074.1	495.0	367.5	344.5	329.5	316.0	302.4	286.1
30°	2530.5	2458.7	2259.3	1326.3	547.9	356.7	329.5	316.0	302.4	284.8	269.9
32.5°	2968.6	2841.1	2677.0	1613.8	618.4	345.8	317.3	298.3	287.5	271.2	255.0
35°	3409.3	3300.8	3085.2	1967.7	697.1	335.0	302.4	284.8	275.3	256.3	238.7
37.5°	3863.6	3839.2	3626.3	2359.7	774.3	322.8	284.8	273.9	264.4	242.7	222.4
40°	4311.1	4266.4	4069.7	2807.2	821.8	309.2	269.9	263.1	252.2	227.8	204.8
42.5°	4739.7	4705.8	4514.6	3235.7	815.0	297.0	255.0	246.8	238.7	214.3	185.8
45°	5265.8	5210.2	4968.9	3553.1	745.9	310.6	240.0	226.5	225.1	202.1	166.8
47.5°	6250.4	6067.3	5657.8	3797.2	676.7	345.8	223.8	207.5	217.0	189.9	147.8
50°	7629.6	7414.0	6821.3	3987.0	675.4	391.9	221.0	189.9	210.2	180.4	131.5
52.5°	9015.5	8635.8	7915.7	4088.7	725.5	425.8	245.5	172.2	202.1	170.9	119.3
55°	10343.2	9555.3	8374.1	3752.4	764.9	462.4	290.2	162.7	187.1	160.0	112.6
57.5°	11608.5	10294.4	8573.4	2968.6	896.4	477.4	317.3	166.8	165.4	146.5	107.1
60°	11782.1	10259.1	8170.7	1726.4	988.6	451.6	306.5	185.8	145.1	130.2	97.6
62.5°	11125.7	9577.0	7252.6	1076.8	918.1	442.1	272.6	211.6	131.5	115.3	85.4
65°	10128.9	8507.0	6047.0	694.3	695.7	490.9	238.7	207.5	123.4	101.7	73.2
67.5°	8570.7	7119.7	4764.1	465.2	393.3	419.0	208.8	142.4	120.7	86.8	57.0
70°	6255.8	5067.9	3101.5	310.6	234.6	335.0	174.9	101.7	113.9	71.9	40.7
72.5°	4572.9	3405.2	1731.8	203.4	132.9	195.3	128.8	73.2	88.1	52.9	28.5
75°	3291.3	2343.4	988.6	130.2	88.1	107.1	84.1	50.2	57.0	42.0	25.8
77.5°	1584.0	1141.9	448.9	71.9	59.7	54.2	44.8	31.2	35.3	38.0	23.1
80°	59.7	44.8	33.9	35.3	38.0	24.4	20.3	16.3	20.3	25.8	12.2
82.5°	0.0	0.0	0.0	4.1	5.4	6.8	8.1	6.8	8.1	9.5	1.4
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: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	550.6	547.9	550.6	553.3	556.0	558.7	554.7	557.4	560.1	553.3	556.0
5°	507.2	505.8	514.0	518.0	523.5	526.2	523.5	523.5	522.1	514.0	514.0
7.5°	469.2	470.6	477.4	486.9	493.6	497.7	495.0	493.6	489.6	477.4	477.4
10°	440.7	440.7	451.6	459.7	469.2	473.3	470.6	466.5	462.4	450.2	448.9
12.5°	417.7	417.7	425.8	439.4	450.2	455.7	454.3	448.9	442.1	429.9	428.5
15°	396.0	394.6	406.8	419.0	434.0	440.7	438.0	434.0	421.8	410.9	408.2
17.5°	374.3	372.9	383.8	400.1	416.3	425.8	424.5	415.0	404.1	390.6	387.9
20°	352.6	349.9	363.4	379.7	396.0	405.5	402.8	394.6	381.1	367.5	364.8
22.5°	330.9	329.5	339.0	352.6	367.5	375.6	374.3	367.5	353.9	341.7	341.7
25°	306.5	306.5	313.3	322.8	333.6	337.7	339.0	336.3	328.2	321.4	321.4
27.5°	286.1	282.1	284.8	287.5	292.9	299.7	299.7	302.4	303.8	301.1	302.4
30°	269.9	263.1	259.0	253.6	250.9	253.6	256.3	265.8	275.3	280.7	283.4
32.5°	250.9	242.7	231.9	217.0	207.5	204.8	212.9	230.5	248.2	260.4	267.2
35°	231.9	221.0	200.7	179.0	166.8	162.7	172.2	192.6	218.3	240.0	249.5
37.5°	212.9	198.0	169.5	143.7	130.2	127.5	137.0	158.7	188.5	218.3	230.5
40°	191.2	173.6	139.7	112.6	101.7	99.0	107.1	128.8	160.0	193.9	212.9
42.5°	169.5	147.8	112.6	89.5	78.7	78.7	89.5	105.8	134.3	170.9	193.9
45°	147.8	124.8	92.2	71.9	65.1	66.5	73.2	89.5	112.6	150.5	172.2
47.5°	127.5	107.1	75.9	59.7	54.2	55.6	63.7	77.3	96.3	130.2	153.2
50°	109.8	90.9	66.5	50.2	46.1	48.8	57.0	69.2	85.4	115.3	134.3
52.5°	99.0	81.4	61.0	43.4	40.7	43.4	51.5	62.4	77.3	101.7	120.7
55°	93.6	80.0	61.0	39.3	35.3	38.0	46.1	57.0	69.2	92.2	108.5
57.5°	92.2	82.7	65.1	35.3	29.8	32.5	40.7	51.5	63.7	84.1	97.6
60°	86.8	78.7	63.7	28.5	23.1	27.1	33.9	44.8	58.3	78.7	90.9
62.5°	75.9	69.2	55.6	23.1	17.6	20.3	28.5	39.3	52.9	71.9	85.4
65°	62.4	55.6	43.4	14.9	10.8	13.6	21.7	33.9	46.1	65.1	77.3
67.5°	46.1	39.3	29.8	9.5	5.4	9.5	17.6	28.5	42.0	58.3	70.5
70°	28.5	23.1	16.3	5.4	4.1	8.1	16.3	27.1	38.0	54.2	66.5
72.5°	16.3	10.8	6.8	2.7	4.1	8.1	16.3	27.1	36.6	51.5	62.4
75°	12.2	6.8	2.7	1.4	2.7	6.8	14.9	24.4	35.3	48.8	59.7
77.5°	8.1	4.1	1.4	0.0	1.4	5.4	13.6	23.1	32.5	46.1	57.0
80°	1.4	0.0	0.0	0.0	0.0	4.1	12.2	20.3	29.8	40.7	50.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	9.5	17.6	25.8	33.9	40.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.6	20.3	25.8	28.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6	16.3	19.0
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: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	554.7	562.8	562.8	568.2	575.0	587.2	594.0	603.5	610.3	617.0	619.8
5°	512.6	514.0	515.3	518.0	526.2	539.7	551.9	566.9	584.5	598.1	606.2
7.5°	477.4	477.4	477.4	481.4	489.6	499.1	511.3	531.6	551.9	568.2	581.8
10°	447.5	451.6	452.9	459.7	469.2	481.4	495.0	512.6	535.7	557.4	581.8
12.5°	428.5	432.6	439.4	446.2	455.7	469.2	484.1	507.2	554.7	599.4	650.9
15°	410.9	416.3	424.5	434.0	444.8	459.7	476.0	523.5	634.7	718.7	800.1
17.5°	391.9	400.1	410.9	420.4	434.0	450.2	470.6	562.8	781.1	920.8	1059.1
20°	367.5	378.4	390.6	405.5	421.8	440.7	470.6	644.2	992.7	1193.4	1376.5
22.5°	344.5	355.3	370.2	389.2	408.2	427.2	477.4	767.6	1265.3	1518.9	1750.8
25°	325.5	339.0	353.9	370.2	391.9	413.6	493.6	941.2	1593.5	1920.3	2084.4
27.5°	307.8	324.1	339.0	352.6	371.6	396.0	530.2	1173.1	1981.3	2313.6	2442.4
30°	290.2	309.2	324.1	337.7	356.7	382.4	585.8	1468.7	2412.6	2735.3	2748.9
32.5°	275.3	292.9	310.6	324.1	341.7	371.6	663.1	1814.5	2854.7	3166.6	3039.1
35°	259.0	279.4	295.6	310.6	329.5	362.1	752.7	2187.4	3300.8	3562.6	3327.9
37.5°	242.7	265.8	286.1	297.0	316.0	352.6	817.7	2576.6	3756.5	3949.0	3581.5
40°	227.8	253.6	276.7	287.5	297.0	340.4	827.2	2975.3	4218.9	4330.1	3820.2
42.5°	211.6	240.0	260.4	275.3	283.4	332.3	770.3	3311.7	4606.8	4709.8	4132.1
45°	193.9	227.8	244.1	255.0	271.2	337.7	697.1	3572.0	5050.2	5227.9	4646.1
47.5°	176.3	214.3	227.8	236.0	257.7	370.2	669.9	3745.6	5781.2	6150.0	5512.7
50°	160.0	202.1	217.0	215.6	255.0	412.3	699.8	3877.2	6879.6	7313.6	6700.6
52.5°	142.4	188.5	206.1	200.7	275.3	444.8	759.4	3981.6	7724.5	8677.9	8296.8
55°	127.5	173.6	189.9	188.5	313.3	469.2	805.5	3431.0	8074.4	9945.9	10095.0
57.5°	116.6	157.3	170.9	193.9	337.7	469.2	931.7	2435.6	8081.2	10878.9	12481.8
60°	107.1	142.4	151.9	212.9	328.2	444.8	922.2	1491.7	7447.9	10815.1	13751.2
62.5°	99.0	128.8	141.0	218.3	290.2	440.7	832.7	924.9	6352.1	9992.0	12830.3
65°	92.2	118.0	135.6	200.7	263.1	471.9	561.4	664.5	5151.9	9053.5	11773.9
67.5°	85.4	108.5	143.7	164.1	238.7	421.8	405.5	471.9	4044.0	8024.2	10804.3
70°	80.0	103.1	151.9	134.3	208.8	329.5	287.5	358.0	3096.0	6695.2	9438.7
72.5°	75.9	96.3	127.5	105.8	169.5	255.0	200.7	260.4	2023.3	5226.5	7694.7
75°	71.9	88.1	93.6	85.4	126.1	166.8	151.9	174.9	1205.6	3820.2	5838.1
77.5°	70.5	82.7	75.9	69.2	85.4	99.0	115.3	118.0	588.6	1910.8	3059.4
80°	62.4	74.6	65.1	57.0	58.3	65.1	85.4	78.7	134.3	485.5	816.4
82.5°	48.8	58.3	54.2	47.5	47.5	47.5	57.0	52.9	43.4	218.3	368.9
85°	33.9	40.7	40.7	38.0	36.6	36.6	35.3	33.9	12.2	13.6	20.3
87.5°	23.1	28.5	29.8	28.5	24.4	21.7	19.0	16.3	5.4	0.0	2.7
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: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	629.2	633.3	633.3	627.9	623.8	613.0	602.1	591.3	588.6	587.2
5°	629.2	645.5	653.7	652.3	642.8	625.2	602.1	577.7	570.9	568.2
7.5°	619.8	650.9	675.4	679.4	661.8	630.6	588.6	551.9	542.5	538.4
10°	641.4	702.5	751.3	758.1	737.7	676.7	608.9	546.5	531.6	522.1
12.5°	758.1	858.4	918.1	946.6	907.3	830.0	717.4	606.2	572.3	557.4
15°	994.0	1136.4	1250.4	1250.4	1213.7	1076.8	934.4	754.0	707.9	667.2
17.5°	1296.5	1475.5	1575.8	1565.0	1509.4	1413.1	1242.2	983.2	889.6	847.6
20°	1640.9	1748.1	1771.1	1764.3	1739.9	1684.3	1566.3	1288.3	1162.2	1097.1
22.5°	1939.3	1910.8	1876.9	1849.8	1843.0	1859.3	1843.0	1628.7	1529.7	1414.4
25°	2141.3	1979.9	1878.2	1829.4	1852.5	1946.0	2047.8	1967.7	1889.1	1769.7
27.5°	2251.2	1971.8	1825.3	1775.2	1814.5	1947.4	2168.5	2304.1	2222.7	2165.7
30°	2310.8	1965.0	1791.4	1742.6	1802.3	1969.1	2252.5	2618.7	2621.4	2530.5
32.5°	2396.3	2008.4	1798.2	1753.5	1833.5	2034.2	2358.3	2938.7	3017.4	2968.6
35°	2492.6	2074.9	1829.4	1788.7	1887.7	2121.0	2476.3	3261.5	3425.6	3409.3
37.5°	2583.4	2149.5	1902.6	1863.3	1970.5	2195.6	2590.2	3578.8	3806.7	3863.6
40°	2678.4	2253.9	2127.8	2165.7	2225.4	2313.6	2691.9	3854.1	4225.7	4311.1
42.5°	2902.1	2616.0	2808.5	2880.4	2888.6	2706.8	2914.3	4206.7	4638.0	4739.7
45°	3401.2	3260.1	3812.1	3913.8	3860.9	3310.3	3450.0	4715.3	5214.3	5265.8
47.5°	4031.8	4096.9	5185.8	5537.1	5219.7	4022.3	4099.6	5785.2	6269.4	6250.4
50°	4766.8	5074.6	6745.4	7574.0	6814.5	4947.2	4848.2	7100.7	7687.9	7629.6
52.5°	5636.1	6211.1	8619.6	9796.7	9077.9	5987.3	5946.6	8843.3	9201.3	9015.5
55°	6730.5	7308.2	10775.8	12420.8	11398.3	7256.6	7396.3	10864.0	10933.1	10343.2
57.5°	8363.2	8738.9	13317.2	15430.0	13820.3	8981.6	9994.7	13553.2	12725.9	11608.5
60°	11327.7	10579.2	15773.1	18508.5	16397.0	11407.8	13421.6	15146.6	13322.6	11782.1
62.5°	12359.8	12141.4	17311.0	19810.3	18130.1	13399.9	14312.6	14243.4	12549.6	11125.7
65°	10796.1	11752.2	17035.7	19122.8	17907.7	13071.7	12843.9	13246.7	11679.0	10128.9
67.5°	9973.0	10838.2	15992.8	17225.6	16675.0	11958.3	11448.4	11338.6	9804.8	8570.7
70°	9143.0	10000.1	14480.7	14634.0	14377.7	10143.8	9473.9	8737.5	7328.5	6255.8
72.5°	8144.9	8616.8	12382.8	11655.9	11365.7	7967.3	7826.2	6579.9	5493.7	4572.9
75°	7103.4	6966.4	9654.3	7999.8	8216.8	6198.9	6609.8	4831.9	4025.0	3291.3
77.5°	5166.9	5065.1	6466.0	4859.0	5381.1	4060.3	3648.0	1928.4	1836.2	1584.0
80°	2883.1	3475.8	3492.0	2723.1	3397.1	2647.2	912.7	63.7	40.7	59.7
82.5°	1339.9	1494.5	1893.2	1262.6	1937.9	1311.4	188.5	0.0	0.0	0.0
85°	434.0	634.7	531.6	185.8	469.2	443.5	31.2	0.0	0.0	0.0
87.5°	25.8	52.9	13.6	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)