

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: P634030

Luminaire Tested: GWS-SA2F-830-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-830-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

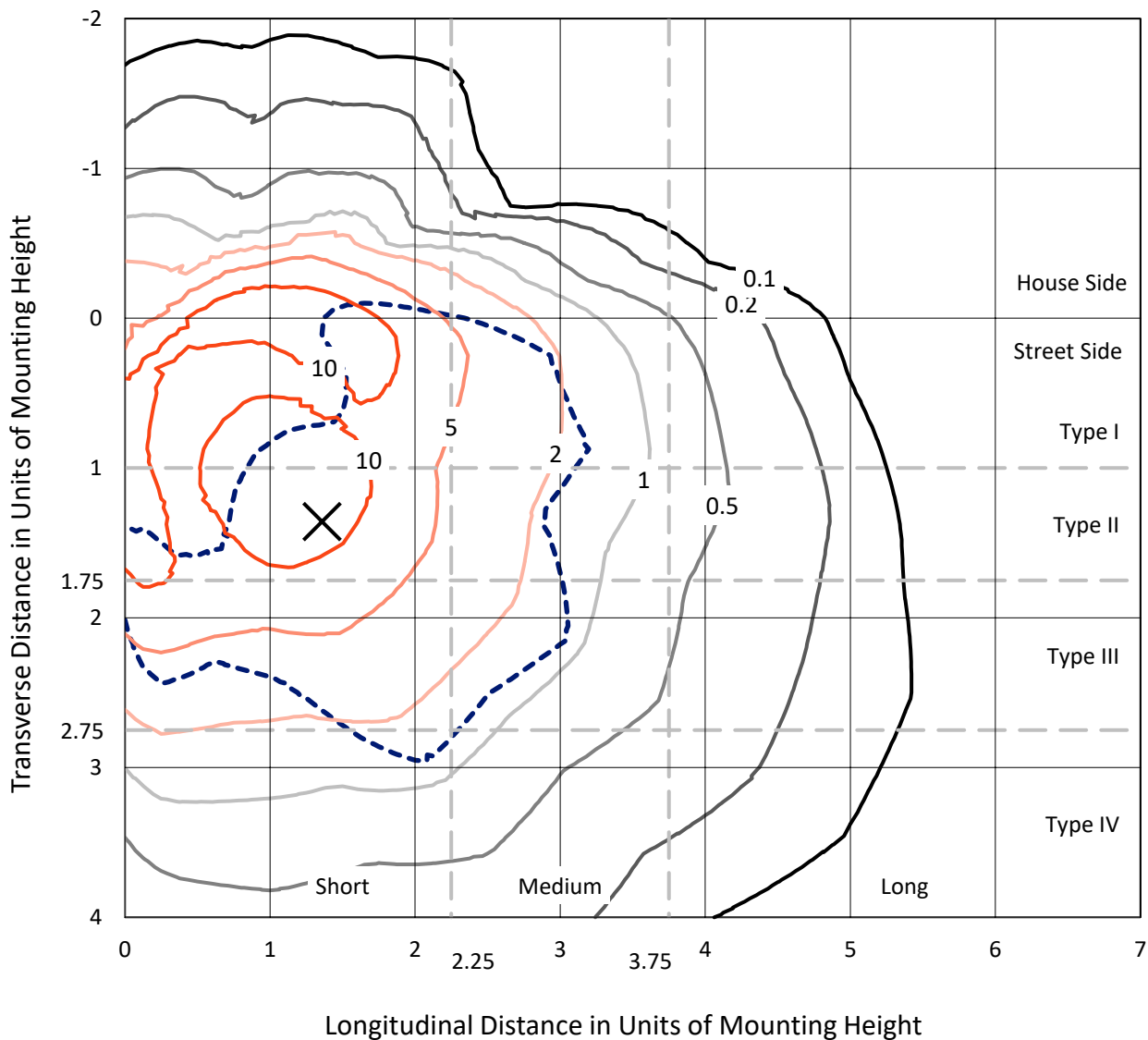
Lumens per Lamp: N/A  
Luminaire Lumens: 7997.6 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P634030  
 CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

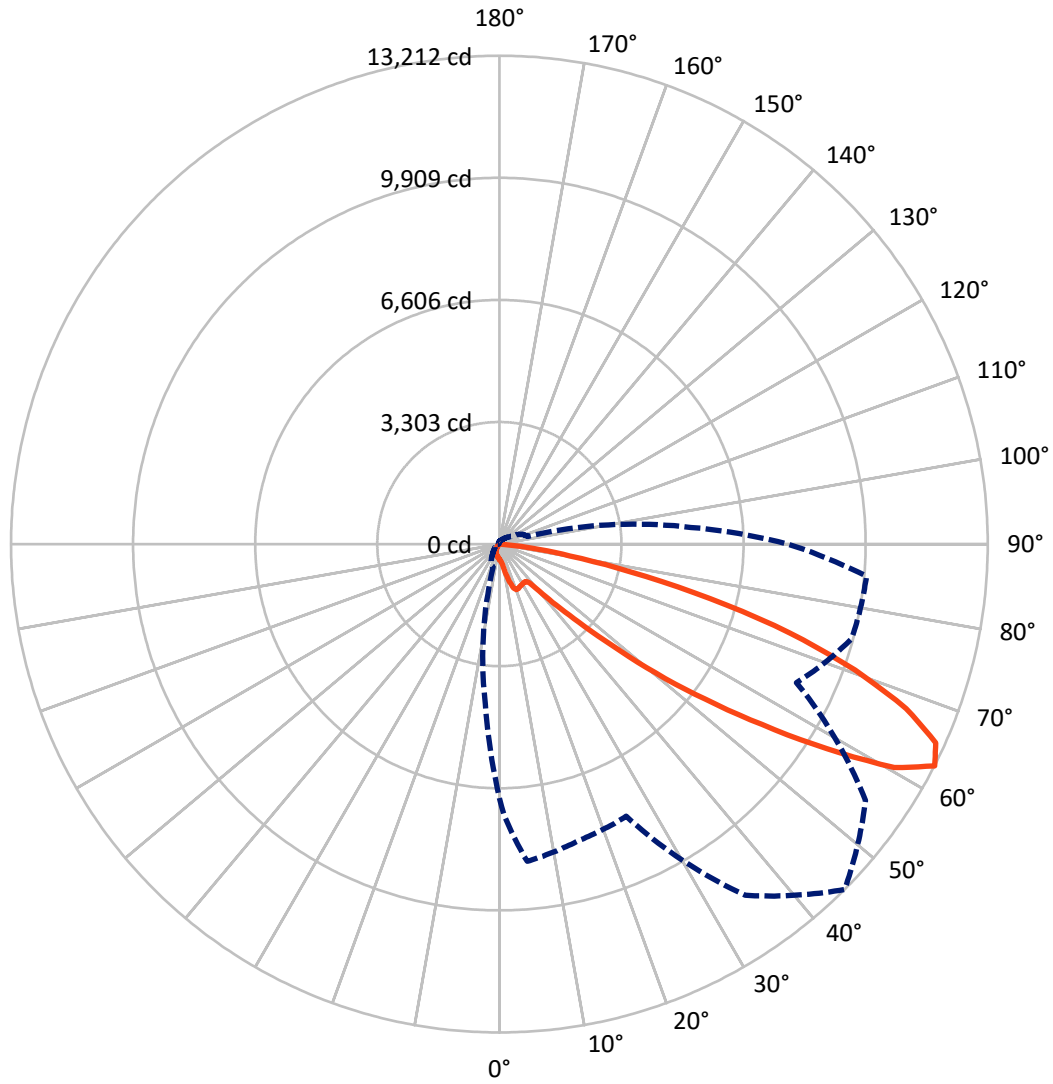
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P634030  
CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P634030  
 CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

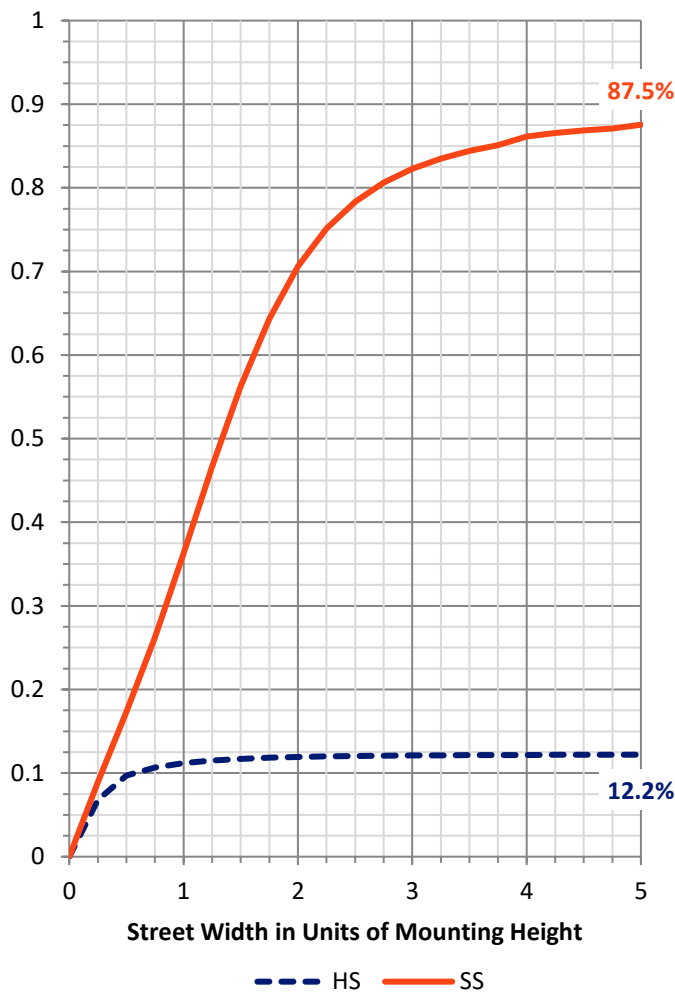
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	986.9	0.0	986.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7010.7	0.0	7010.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	7997.6	0.0	7997.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.9	0.5
10°-20°	139.4	1.7
20°-30°	303.1	3.8
30°-40°	497.5	6.2
40°-50°	914.6	11.4
50°-60°	1964.1	24.6
60°-70°	2638.1	33.0
70°-80°	1373.7	17.2
80°-90°	130.2	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°	7997.6	100.0
0°-180°	7997.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P634030

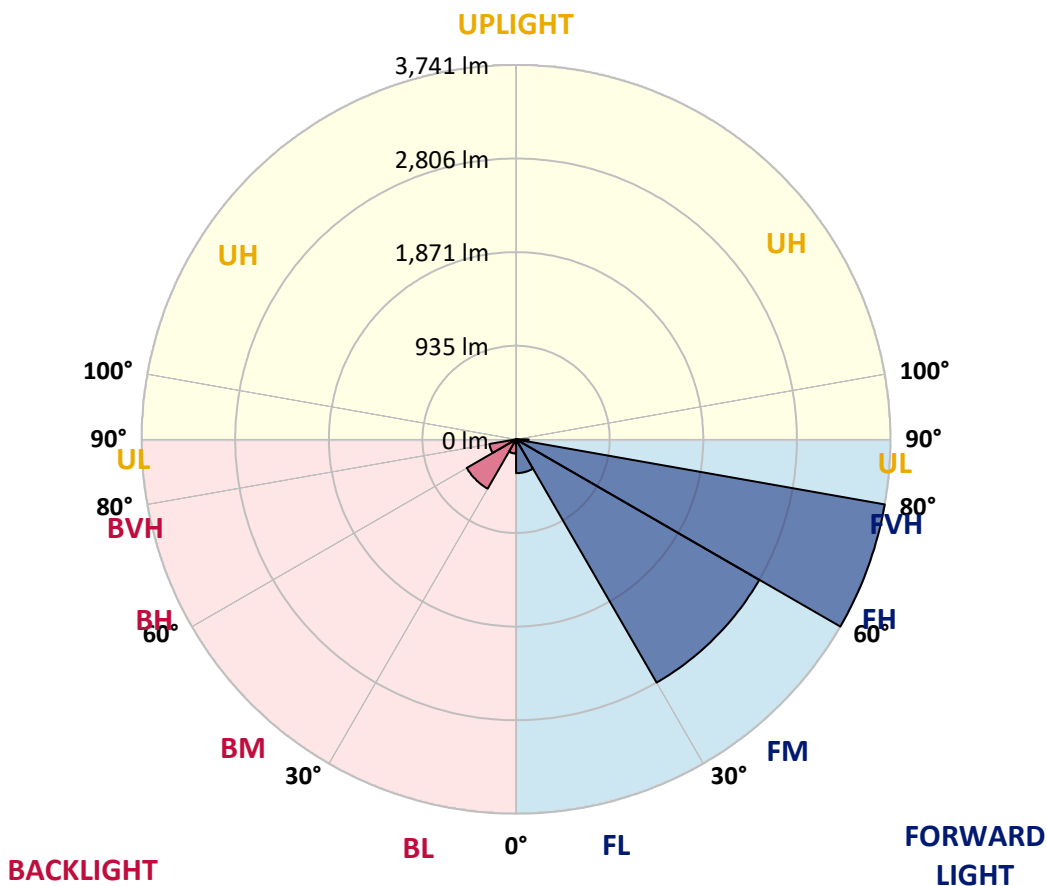
CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.9	4.2			
FM (30°-60°)	2807.1	35.1			
FH (60°-80°)	3741.3	46.8			G2/5000
FVH (80°-90°)	124.4	1.6			G2/225
BL (0°-30°)	141.6	1.8	B1/500		
BM (30°-60°)	569.1	7.1	B1/1000		
BH (60°-80°)	270.4	3.4	B1/500		G1/500
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P634030

CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7
2.5°	424.0	425.9	427.7	434.2	438.8	442.5	443.4	440.7	434.2	427.7	418.5
5°	411.1	412.9	419.4	437.0	454.5	468.4	473.0	470.2	454.5	434.2	412.9
7.5°	410.2	413.9	429.6	466.5	504.4	533.0	540.4	534.0	504.4	463.7	420.3
10°	443.4	449.9	473.0	539.5	608.8	659.6	679.9	652.2	605.1	531.2	460.0
12.5°	530.3	541.3	585.7	682.7	789.8	857.3	885.0	850.8	776.9	669.8	557.0
15°	667.0	683.6	750.1	895.2	1021.7	1081.8	1091.0	1071.6	985.7	867.4	715.9
17.5°	860.1	884.1	987.5	1135.3	1226.8	1248.0	1245.3	1225.0	1162.1	1080.8	937.7
20°	1091.0	1119.6	1221.3	1343.2	1352.4	1327.5	1313.6	1301.6	1280.4	1266.5	1154.7
22.5°	1323.8	1358.9	1465.1	1495.6	1412.5	1340.4	1306.2	1315.5	1346.9	1415.3	1370.0
25°	1555.7	1588.9	1688.7	1606.5	1440.2	1320.1	1276.7	1298.9	1373.7	1521.5	1579.7
27.5°	1826.3	1851.3	1910.4	1682.2	1444.8	1303.5	1261.0	1295.2	1386.6	1588.0	1809.7
30°	2108.1	2122.9	2094.2	1702.6	1429.1	1278.5	1245.3	1295.2	1408.8	1632.3	1982.5
32.5°	2315.0	2317.8	2224.5	1704.4	1420.8	1258.2	1230.5	1289.6	1430.0	1669.3	2149.7
35°	2528.4	2514.6	2349.2	1732.1	1443.0	1265.6	1241.6	1305.3	1463.3	1712.7	2296.6
37.5°	2744.6	2719.7	2488.7	1777.4	1500.2	1346.0	1331.2	1385.7	1516.9	1772.8	2458.2
40°	2966.3	2932.1	2633.7	1845.7	1627.7	1619.4	1670.2	1663.8	1663.8	1849.4	2624.5
42.5°	3237.0	3197.3	2848.1	2038.8	1925.2	2110.9	2249.4	2163.5	2004.6	2025.9	2840.7
45°	3594.5	3560.3	3219.4	2408.3	2391.7	2818.5	3005.1	2835.1	2439.7	2433.3	3201.9
47.5°	4166.3	4159.8	3811.6	2837.0	2962.6	3719.2	4079.5	3752.5	2935.8	2864.7	3885.5
50°	4970.0	4950.6	4549.7	3339.5	3641.6	4835.1	5478.1	4933.1	3535.4	3368.2	4801.0
52.5°	5875.3	5895.7	5583.4	3888.3	4363.1	6076.7	6971.9	6285.5	4186.6	4008.3	5952.9
55°	6728.0	6844.4	6762.2	4530.3	5067.9	7447.6	8612.5	7769.1	4993.1	4846.2	7244.4
57.5°	7395.0	7722.9	8299.4	5463.3	5896.6	9051.3	10444.4	9377.4	5934.5	6207.0	9002.4
60°	7431.9	7866.1	9204.7	7415.3	6962.6	10426.9	12273.5	10948.8	7414.4	8517.4	10379.8
62.5°	6874.9	7340.5	8615.3	8302.1	8123.9	11597.3	13212.1	12094.3	8870.3	9870.8	9971.4
65°	6237.5	6707.7	7957.6	7296.1	7989.0	11547.4	12973.8	12121.1	9002.4	8950.7	9240.7
67.5°	5273.9	5696.1	6827.8	6458.3	7363.6	10990.4	11872.6	11357.1	8293.8	8371.4	8500.8
70°	3849.5	4255.9	5306.3	5324.8	6430.5	9986.2	10201.5	10130.3	7637.9	7720.2	7350.6
72.5°	2780.6	3123.4	4029.6	4366.8	5133.5	8374.2	8225.5	8499.8	6553.4	6875.8	5904.0
75°	1999.1	2255.9	2956.1	3798.6	4069.3	6219.0	5888.3	6583.0	5258.2	5920.6	4438.8
77.5°	811.1	901.6	1163.1	2558.9	2674.4	4183.9	3604.6	4781.6	3748.8	3890.1	2151.5
80°	33.3	37.0	48.0	1321.0	1833.7	2353.8	1928.9	2556.1	2475.8	1566.8	508.1
82.5°	3.7	3.7	8.3	380.6	802.8	1298.9	909.0	1472.5	1253.6	664.2	230.9
85°	0.9	0.9	1.8	43.4	188.5	207.9	122.9	451.7	582.9	271.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	8.3	9.2	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: P634030

CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7
2.5°	418.5	413.9	408.3	402.8	400.0	392.6	389.8	388.0	386.1	387.1	387.1
5°	404.6	394.5	382.5	370.4	364.0	356.6	352.9	351.0	352.0	355.7	355.7
7.5°	402.8	383.4	357.5	341.8	334.4	328.9	325.2	323.3	324.3	328.9	330.7
10°	433.3	399.1	352.9	326.1	317.8	312.2	308.5	305.8	303.9	307.6	308.5
12.5°	498.8	451.7	375.1	324.3	309.5	302.1	299.3	293.8	291.0	292.8	293.8
15°	634.6	553.4	419.4	331.6	302.1	293.8	289.1	284.5	279.9	279.0	279.9
17.5°	812.0	695.6	486.8	349.2	296.5	286.4	279.9	273.4	267.0	266.1	265.1
20°	1031.9	870.2	581.1	376.9	291.9	279.9	270.7	261.4	253.1	250.3	250.3
22.5°	1232.3	1080.8	702.1	411.1	285.5	270.7	259.6	248.5	239.3	234.6	233.7
25°	1477.1	1304.4	847.1	450.8	276.2	258.7	246.7	235.6	226.3	220.8	218.9
27.5°	1723.8	1540.0	1011.6	502.5	265.1	246.7	235.6	225.4	215.2	208.8	206.9
30°	1963.1	1794.0	1196.3	567.2	256.8	234.6	225.4	215.2	206.0	195.8	193.1
32.5°	2219.9	2053.6	1403.2	639.3	250.3	226.3	216.2	206.9	194.9	185.7	181.1
35°	2467.5	2321.5	1631.4	709.5	243.9	218.9	207.9	198.6	185.7	175.5	169.1
37.5°	2716.9	2594.0	1869.8	752.0	234.6	208.8	198.6	191.2	176.4	164.4	157.0
40°	2981.1	2875.8	2127.5	734.4	226.3	197.7	192.1	183.8	167.2	153.3	144.1
42.5°	3271.2	3144.6	2389.9	667.0	218.9	188.5	182.9	174.6	158.9	142.3	130.3
45°	3636.1	3439.3	2605.1	565.4	222.6	179.2	168.1	166.3	151.5	130.3	115.5
47.5°	4263.3	3891.9	2772.3	499.8	247.6	169.1	156.1	160.7	145.0	118.2	101.6
50°	5223.1	4642.1	2928.4	495.2	285.5	164.4	145.0	157.0	138.6	106.2	89.6
52.5°	6137.7	5404.2	3028.2	535.8	318.7	176.4	134.0	152.4	134.0	97.9	81.3
55°	7012.5	5843.9	2849.9	565.4	350.1	212.5	125.6	145.0	128.4	93.3	78.5
57.5°	7955.7	6039.8	2243.9	625.4	372.3	243.0	127.5	134.0	121.0	90.5	77.6
60°	8237.5	5789.4	1354.3	703.9	360.3	252.2	141.3	119.2	110.9	85.0	74.8
62.5°	7799.6	5195.4	799.1	641.1	350.1	238.3	161.7	109.9	100.7	77.6	69.3
65°	7144.6	4389.0	521.0	541.3	371.4	212.5	171.8	105.3	91.5	70.2	61.0
67.5°	6396.4	3535.4	364.9	319.6	342.7	191.2	145.0	104.4	82.2	59.1	49.9
70°	5387.6	2647.6	256.8	211.5	285.5	170.0	112.7	101.6	72.1	48.0	38.8
72.5°	4162.6	1657.3	191.2	136.7	203.2	138.6	89.6	85.9	58.2	39.7	29.6
75°	3069.8	945.0	134.9	98.8	134.0	105.3	66.5	61.0	49.9	37.9	26.8
77.5°	1602.8	473.0	84.1	75.8	76.7	65.6	48.0	44.3	46.2	37.9	24.9
80°	307.6	94.2	50.8	55.4	41.6	41.6	35.1	37.0	40.6	30.5	21.2
82.5°	128.4	20.3	27.7	31.4	25.9	28.6	28.6	29.6	28.6	22.2	15.7
85°	0.0	0.0	12.0	12.9	17.6	17.6	14.8	14.8	14.8	12.9	9.2
87.5°	0.0	0.0	0.0	0.0	0.9	2.8	5.5	6.5	7.4	5.5	3.7
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: P634030  
 CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7
2.5°	386.1	384.3	387.1	388.9	390.8	390.8	388.9	387.1	384.3	387.1	384.3
5°	356.6	359.4	364.0	365.8	367.7	364.0	362.1	356.6	352.0	352.9	351.0
7.5°	333.5	336.3	341.8	345.5	345.5	343.7	338.1	332.6	325.2	325.2	324.3
10°	312.2	315.9	322.4	327.0	328.9	327.0	321.5	314.1	307.6	307.6	304.9
12.5°	294.7	299.3	306.7	313.2	315.0	313.2	307.6	300.2	292.8	292.8	291.0
15°	279.9	285.5	293.8	301.2	303.9	301.2	294.7	285.5	278.1	279.0	276.2
17.5°	266.1	270.7	281.8	290.1	292.8	290.1	281.8	269.7	262.4	264.2	262.4
20°	250.3	255.9	267.0	276.2	279.0	276.2	267.0	254.0	246.7	246.7	247.6
22.5°	233.7	239.3	250.3	256.8	260.5	257.7	248.5	236.5	229.1	229.1	230.0
25°	218.9	221.7	230.0	236.5	237.4	234.6	227.3	218.0	212.5	215.2	216.2
27.5°	205.1	205.1	208.8	212.5	211.5	208.8	206.0	198.6	197.7	200.5	203.2
30°	190.3	185.7	183.8	181.1	180.1	179.2	182.0	182.0	183.8	187.5	190.3
32.5°	177.4	168.1	159.8	151.5	146.9	150.6	158.0	164.4	170.9	176.4	179.2
35°	162.6	147.8	134.0	122.9	115.5	121.0	133.0	145.0	156.1	163.5	168.1
37.5°	147.8	126.6	109.9	96.1	90.5	95.2	108.1	124.7	141.3	150.6	157.0
40°	132.1	105.3	85.9	74.8	69.3	73.9	86.8	103.5	125.6	137.6	146.0
42.5°	116.4	86.8	69.3	58.2	55.4	58.2	68.4	85.0	109.0	123.8	134.9
45°	100.7	72.1	55.4	47.1	44.3	47.1	55.4	69.3	93.3	109.9	122.9
47.5°	86.8	61.0	46.2	38.8	37.0	39.7	46.2	58.2	78.5	95.2	109.9
50°	75.8	53.6	39.7	33.3	31.4	34.2	39.7	49.0	66.5	81.3	97.0
52.5°	68.4	49.9	35.1	28.6	27.7	29.6	34.2	41.6	56.4	69.3	84.1
55°	66.5	49.9	32.3	25.9	24.9	26.8	30.5	36.0	49.0	60.0	73.0
57.5°	68.4	53.6	30.5	22.2	21.2	23.1	26.8	31.4	42.5	51.7	63.7
60°	68.4	54.5	26.8	17.6	16.6	18.5	22.2	27.7	37.9	45.3	55.4
62.5°	61.9	49.9	22.2	13.9	12.0	13.9	18.5	23.1	33.3	40.6	49.0
65°	53.6	42.5	18.5	10.2	8.3	10.2	14.8	19.4	28.6	35.1	44.3
67.5°	43.4	32.3	13.9	7.4	5.5	7.4	11.1	15.7	24.0	30.5	39.7
70°	32.3	23.1	11.1	6.5	5.5	6.5	10.2	14.8	21.2	27.7	37.0
72.5°	24.0	15.7	9.2	6.5	4.6	6.5	9.2	13.9	20.3	26.8	35.1
75°	20.3	12.9	8.3	5.5	4.6	5.5	8.3	12.9	18.5	24.9	33.3
77.5°	19.4	12.0	7.4	4.6	3.7	4.6	7.4	11.1	16.6	23.1	32.3
80°	16.6	10.2	6.5	3.7	2.8	3.7	6.5	9.2	12.9	17.6	24.9
82.5°	12.9	8.3	4.6	1.8	0.9	1.8	4.6	5.5	8.3	10.2	14.8
85°	8.3	4.6	1.8	0.0	0.0	0.0	1.8	3.7	3.7	4.6	7.4
87.5°	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.8
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: P634030  
 CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7	415.7
2.5°	389.8	390.8	392.6	395.4	401.9	407.4	412.9	420.3	424.0	424.0
5°	352.9	353.8	354.7	358.4	367.7	375.1	387.1	401.9	409.2	411.1
7.5°	324.3	326.1	327.9	330.7	340.0	350.1	365.8	393.5	407.4	410.2
10°	307.6	310.4	314.1	319.6	327.9	339.0	365.8	415.7	438.8	443.4
12.5°	294.7	299.3	303.0	309.5	319.6	337.2	390.8	478.5	519.2	530.3
15°	281.8	287.3	292.8	299.3	310.4	343.7	438.8	591.2	658.7	667.0
17.5°	268.8	275.3	282.7	290.1	303.9	359.4	514.6	747.4	841.6	860.1
20°	254.0	262.4	272.5	281.8	297.5	384.3	619.9	933.0	1051.3	1091.0
22.5°	238.3	248.5	260.5	272.5	290.1	414.8	747.4	1132.6	1297.9	1323.8
25°	225.4	235.6	246.7	258.7	278.1	451.7	901.6	1380.1	1530.7	1555.7
27.5°	213.4	223.6	233.7	244.8	266.1	499.8	1087.3	1643.4	1800.5	1826.3
30°	200.5	212.5	222.6	233.7	255.0	558.9	1301.6	1935.4	2084.1	2108.1
32.5°	189.4	201.4	211.5	222.6	246.7	623.6	1527.0	2194.0	2315.0	2315.0
35°	180.1	193.1	200.5	215.2	240.2	665.1	1740.4	2440.7	2532.1	2528.4
37.5°	170.0	185.7	191.2	201.4	231.9	669.8	1940.9	2701.2	2768.6	2744.6
40°	159.8	176.4	184.8	190.3	222.6	631.9	2160.8	2940.4	2997.7	2966.3
42.5°	150.6	163.5	175.5	182.0	217.1	565.4	2337.2	3196.3	3264.7	3237.0
45°	141.3	152.4	159.8	171.8	220.8	519.2	2488.7	3494.7	3614.8	3594.5
47.5°	132.1	141.3	146.0	164.4	245.7	497.9	2581.1	3956.6	4182.9	4166.3
50°	121.9	133.0	133.0	162.6	282.7	505.3	2661.5	4625.4	4975.6	4970.0
52.5°	111.8	123.8	121.9	176.4	311.3	539.5	2752.9	5215.7	5824.5	5875.3
55°	101.6	112.7	114.6	204.2	327.9	569.1	2399.1	5464.2	6549.7	6728.0
57.5°	90.5	97.0	119.2	225.4	322.4	655.0	1643.4	5509.5	7012.5	7395.0
60°	78.5	84.1	134.9	220.8	304.9	605.1	1034.7	5103.0	6946.9	7431.9
62.5°	68.4	77.6	142.3	194.9	310.4	524.7	659.6	4349.2	6321.5	6874.9
65°	60.0	74.8	129.3	176.4	314.1	355.7	445.3	3538.1	5710.9	6237.5
67.5°	53.6	83.1	106.2	157.0	269.7	250.3	305.8	2749.2	4801.9	5273.9
70°	49.0	85.0	86.8	134.9	208.8	160.7	201.4	1850.4	3310.0	3849.5
72.5°	44.3	62.8	65.6	108.1	134.9	97.9	130.3	1058.7	2413.0	2780.6
75°	42.5	42.5	45.3	70.2	74.8	71.1	84.1	631.9	1730.3	1999.1
77.5°	39.7	32.3	28.6	45.3	40.6	50.8	49.9	280.8	750.1	811.1
80°	31.4	23.1	19.4	28.6	27.7	34.2	29.6	23.1	34.2	33.3
82.5°	19.4	14.8	13.9	17.6	15.7	17.6	13.9	3.7	3.7	3.7
85°	9.2	8.3	7.4	7.4	8.3	7.4	5.5	1.8	0.9	0.9
87.5°	4.6	4.6	3.7	2.8	3.7	3.7	2.8	0.9	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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