

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: P640021

Luminaire Tested: GWS-SA5D-722-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640021  
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-SA5D-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

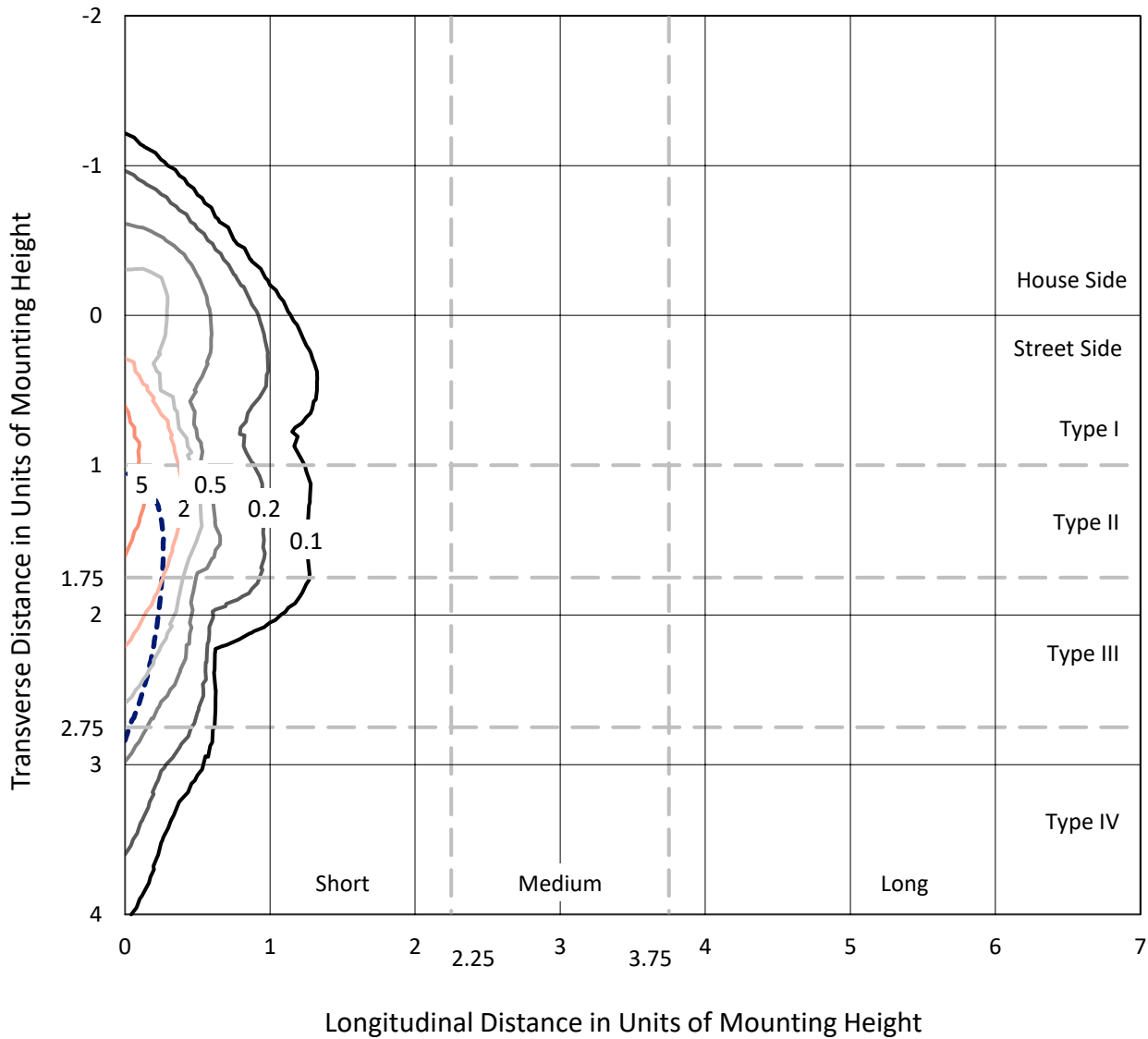
Lumens per Lamp: N/A  
Luminaire Lumens: 13397.8 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P640021  
 CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

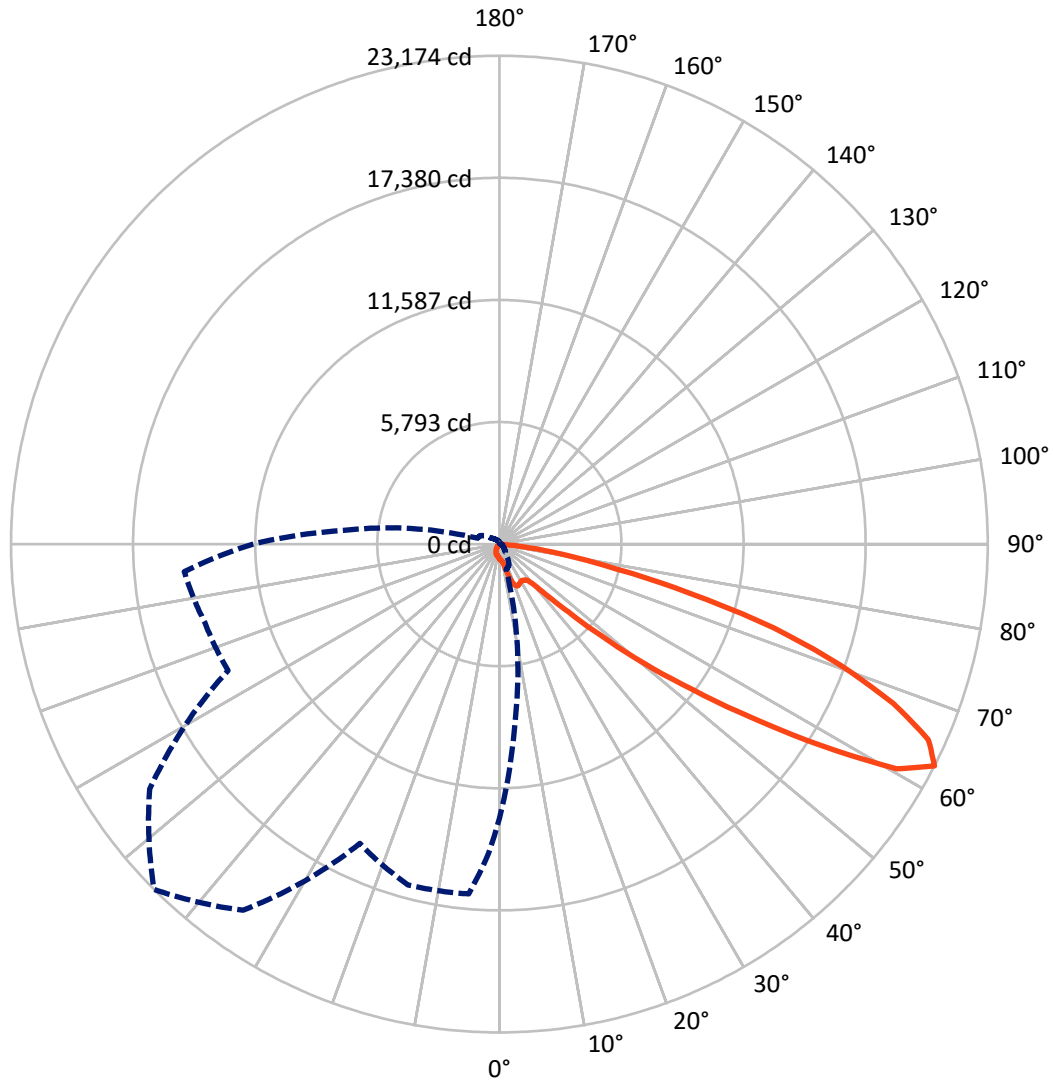
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

REPORT NUMBER: P640021  
CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640021  
 CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1556.7	0.0	1556.7
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	11841.1	0.0	11841.1
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	13397.8	0.0	13397.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.0	0.4
10°-20°	205.7	1.5
20°-30°	464.6	3.5
30°-40°	800.4	6.0
40°-50°	1509.8	11.3
50°-60°	3371.0	25.2
60°-70°	4508.7	33.7
70°-80°	2261.0	16.9
80°-90°	216.7	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°	13397.8	100.0
0°-180°	13397.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640021

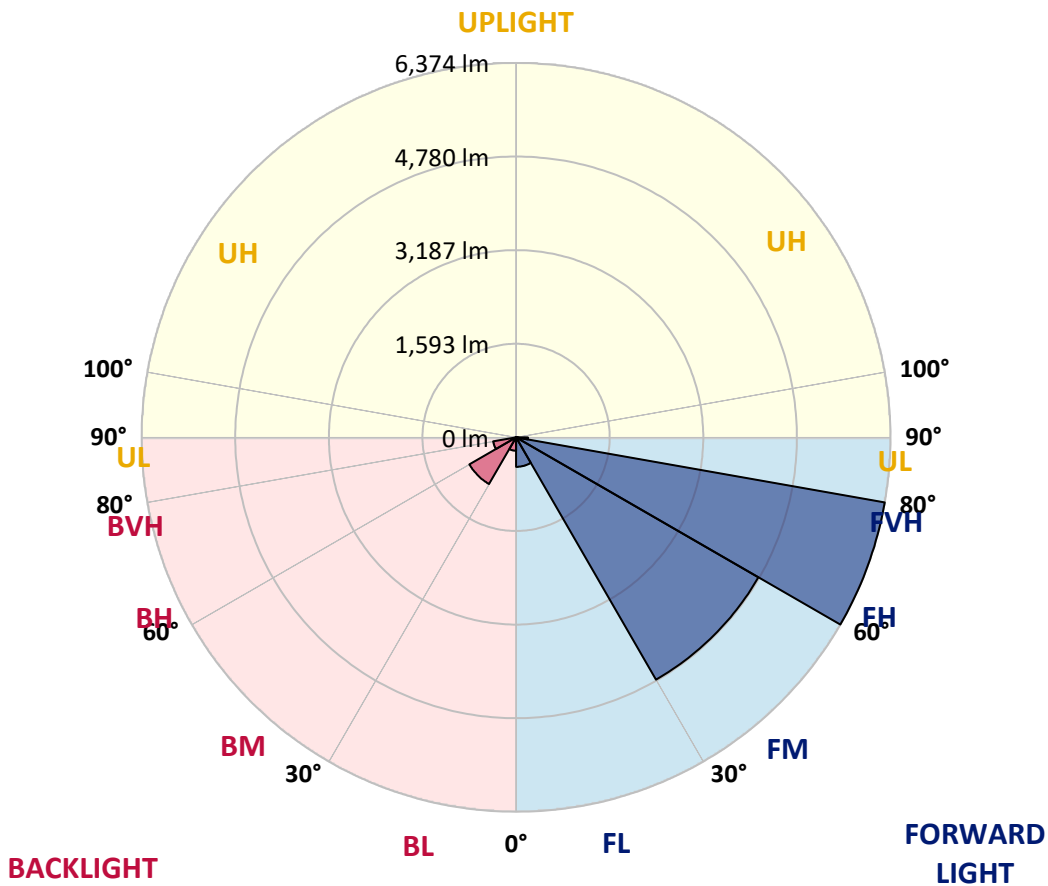
CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.8	3.7			
FM (30°-60°)	4763.3	35.6			
FH (60°-80°)	6373.8	47.6			G3/7500
FVH (80°-90°)	202.3	1.5			G2/225
BL (0°-30°)	228.5	1.7	B1/500		
BM (30°-60°)	917.9	6.9	B1/1000		
BH (60°-80°)	395.9	3.0	B1/500		G1/500
BVH (80°-90°)	14.4	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: P640021

CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8
2.5°	686.9	685.3	682.1	672.6	664.7	659.9	650.4	650.4	648.8	645.7	639.3
5°	664.7	658.3	652.0	634.5	615.5	604.4	591.7	590.1	590.1	587.0	585.4
7.5°	629.8	623.4	615.5	587.0	569.5	558.4	547.3	545.7	541.0	541.0	541.0
10°	610.8	601.2	588.5	556.8	539.4	529.8	521.9	517.2	514.0	509.2	507.6
12.5°	652.0	634.5	607.6	550.5	526.7	514.0	504.5	501.3	491.8	485.4	480.7
15°	780.5	737.7	683.7	564.7	521.9	502.9	490.2	483.8	475.9	464.8	456.9
17.5°	991.5	929.6	839.2	610.8	517.2	493.4	477.5	466.4	455.3	442.6	433.1
20°	1283.4	1191.4	1083.5	694.8	517.2	482.3	463.2	448.9	433.1	418.8	407.7
22.5°	1654.6	1562.6	1378.6	837.6	523.5	468.0	445.8	426.7	407.7	395.0	382.3
25°	2070.2	1940.1	1768.8	1010.5	541.0	448.9	425.1	406.1	388.7	372.8	358.5
27.5°	2533.4	2392.2	2163.8	1256.4	579.0	429.9	402.9	385.5	369.6	353.8	334.7
30°	2960.2	2876.1	2642.9	1551.5	640.9	417.2	385.5	369.6	353.8	333.1	315.7
32.5°	3472.6	3323.4	3131.5	1887.8	723.4	404.5	371.2	349.0	336.3	317.3	298.2
35°	3988.1	3861.2	3609.0	2301.8	815.4	391.8	353.8	333.1	322.0	299.8	279.2
37.5°	4519.6	4491.0	4241.9	2760.3	905.8	377.6	333.1	320.4	309.3	284.0	260.2
40°	5043.1	4990.7	4760.7	3283.8	961.3	361.7	315.7	307.8	295.1	266.5	239.5
42.5°	5544.4	5504.7	5281.0	3785.1	953.4	347.4	298.2	288.7	279.2	250.6	217.3
45°	6159.9	6094.8	5812.5	4156.3	872.5	363.3	280.8	264.9	263.3	236.4	195.1
47.5°	7311.6	7097.4	6618.3	4441.8	791.6	404.5	261.8	242.7	253.8	222.1	172.9
50°	8924.9	8672.7	7979.4	4663.9	790.0	458.5	258.6	222.1	245.9	211.0	153.9
52.5°	10546.2	10102.0	9259.6	4782.9	848.7	498.1	287.1	201.5	236.4	199.9	139.6
55°	12099.2	11177.5	9795.8	4389.5	894.7	541.0	339.5	190.4	218.9	187.2	131.7
57.5°	13579.3	12042.1	10029.0	3472.6	1048.6	558.4	371.2	195.1	193.5	171.3	125.3
60°	13782.4	12000.9	9557.9	2019.4	1156.5	528.3	358.5	217.3	169.7	152.3	114.2
62.5°	13014.6	11202.9	8483.9	1259.6	1074.0	517.2	318.9	247.5	153.9	134.8	99.9
65°	11848.6	9951.3	7073.6	812.2	813.8	574.3	279.2	242.7	144.4	119.0	85.7
67.5°	10025.8	8328.4	5572.9	544.1	460.0	490.2	244.3	166.6	141.2	101.5	66.6
70°	7317.9	5928.3	3628.0	363.3	274.4	391.8	204.6	119.0	133.3	84.1	47.6
72.5°	5349.2	3983.4	2025.8	238.0	155.5	228.4	150.7	85.7	103.1	61.9	33.3
75°	3850.1	2741.2	1156.5	152.3	103.1	125.3	98.4	58.7	66.6	49.2	30.1
77.5°	1852.9	1335.7	525.1	84.1	69.8	63.5	52.4	36.5	41.2	44.4	27.0
80°	69.8	52.4	39.7	41.2	44.4	28.6	23.8	19.0	23.8	30.1	14.3
82.5°	0.0	0.0	0.0	4.8	6.3	7.9	9.5	7.9	9.5	11.1	1.6
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: P640021

CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8
2.5°	644.1	640.9	644.1	647.2	650.4	653.6	648.8	652.0	655.2	647.2	650.4
5°	593.3	591.7	601.2	606.0	612.3	615.5	612.3	612.3	610.8	601.2	601.2
7.5°	548.9	550.5	558.4	569.5	577.4	582.2	579.0	577.4	572.7	558.4	558.4
10°	515.6	515.6	528.3	537.8	548.9	553.6	550.5	545.7	541.0	526.7	525.1
12.5°	488.6	488.6	498.1	514.0	526.7	533.0	531.4	525.1	517.2	502.9	501.3
15°	463.2	461.6	475.9	490.2	507.6	515.6	512.4	507.6	493.4	480.7	477.5
17.5°	437.8	436.3	448.9	468.0	487.0	498.1	496.5	485.4	472.7	456.9	453.7
20°	412.5	409.3	425.1	444.2	463.2	474.3	471.2	461.6	445.8	429.9	426.7
22.5°	387.1	385.5	396.6	412.5	429.9	439.4	437.8	429.9	414.0	399.8	399.8
25°	358.5	358.5	366.5	377.6	390.2	395.0	396.6	393.4	383.9	376.0	376.0
27.5°	334.7	330.0	333.1	336.3	342.7	350.6	350.6	353.8	355.3	352.2	353.8
30°	315.7	307.8	303.0	296.7	293.5	296.7	299.8	310.9	322.0	328.4	331.6
32.5°	293.5	284.0	271.3	253.8	242.7	239.5	249.1	269.7	290.3	304.6	312.5
35°	271.3	258.6	234.8	209.4	195.1	190.4	201.5	225.3	255.4	280.8	291.9
37.5°	249.1	231.6	198.3	168.2	152.3	149.1	160.2	185.6	220.5	255.4	269.7
40°	223.7	203.1	163.4	131.7	119.0	115.8	125.3	150.7	187.2	226.9	249.1
42.5°	198.3	172.9	131.7	104.7	92.0	92.0	104.7	123.7	157.1	199.9	226.9
45°	172.9	145.9	107.9	84.1	76.1	77.7	85.7	104.7	131.7	176.1	201.5
47.5°	149.1	125.3	88.8	69.8	63.5	65.0	74.6	90.4	112.6	152.3	179.3
50°	128.5	106.3	77.7	58.7	53.9	57.1	66.6	80.9	99.9	134.8	157.1
52.5°	115.8	95.2	71.4	50.8	47.6	50.8	60.3	73.0	90.4	119.0	141.2
55°	109.5	93.6	71.4	46.0	41.2	44.4	53.9	66.6	80.9	107.9	126.9
57.5°	107.9	96.8	76.1	41.2	34.9	38.1	47.6	60.3	74.6	98.4	114.2
60°	101.5	92.0	74.6	33.3	27.0	31.7	39.7	52.4	68.2	92.0	106.3
62.5°	88.8	80.9	65.0	27.0	20.6	23.8	33.3	46.0	61.9	84.1	99.9
65°	73.0	65.0	50.8	17.5	12.7	15.9	25.4	39.7	53.9	76.1	90.4
67.5°	53.9	46.0	34.9	11.1	6.3	11.1	20.6	33.3	49.2	68.2	82.5
70°	33.3	27.0	19.0	6.3	4.8	9.5	19.0	31.7	44.4	63.5	77.7
72.5°	19.0	12.7	7.9	3.2	4.8	9.5	19.0	31.7	42.8	60.3	73.0
75°	14.3	7.9	3.2	1.6	3.2	7.9	17.5	28.6	41.2	57.1	69.8
77.5°	9.5	4.8	1.6	0.0	1.6	6.3	15.9	27.0	38.1	53.9	66.6
80°	1.6	0.0	0.0	0.0	0.0	4.8	14.3	23.8	34.9	47.6	58.7
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	11.1	20.6	30.1	39.7	47.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	15.9	23.8	30.1	33.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.9	19.0	22.2
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: P640021

CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8
2.5°	648.8	658.3	658.3	664.7	672.6	686.9	694.8	705.9	713.9	721.8	725.0
5°	599.6	601.2	602.8	606.0	615.5	631.4	645.7	663.1	683.7	699.6	709.1
7.5°	558.4	558.4	558.4	563.2	572.7	583.8	598.1	621.9	645.7	664.7	680.6
10°	523.5	528.3	529.8	537.8	548.9	563.2	579.0	599.6	626.6	652.0	680.6
12.5°	501.3	506.1	514.0	521.9	533.0	548.9	566.3	593.3	648.8	701.2	761.5
15°	480.7	487.0	496.5	507.6	520.3	537.8	556.8	612.3	742.4	840.8	936.0
17.5°	458.5	468.0	480.7	491.8	507.6	526.7	550.5	658.3	913.7	1077.1	1239.0
20°	429.9	442.6	456.9	474.3	493.4	515.6	550.5	753.5	1161.2	1396.0	1610.2
22.5°	402.9	415.6	433.1	455.3	477.5	499.7	558.4	897.9	1480.1	1776.7	2048.0
25°	380.7	396.6	414.0	433.1	458.5	483.8	577.4	1100.9	1864.0	2246.3	2438.2
27.5°	360.1	379.1	396.6	412.5	434.7	463.2	620.3	1372.2	2317.7	2706.3	2857.0
30°	339.5	361.7	379.1	395.0	417.2	447.4	685.3	1718.0	2822.1	3199.7	3215.6
32.5°	322.0	342.7	363.3	379.1	399.8	434.7	775.7	2122.6	3339.3	3704.2	3555.1
35°	303.0	326.8	345.8	363.3	385.5	423.6	880.4	2558.8	3861.2	4167.4	3892.9
37.5°	284.0	310.9	334.7	347.4	369.6	412.5	956.6	3014.1	4394.2	4619.5	4189.6
40°	266.5	296.7	323.6	336.3	347.4	398.2	967.7	3480.5	4935.2	5065.3	4468.8
42.5°	247.5	280.8	304.6	322.0	331.6	388.7	901.1	3873.9	5388.9	5509.5	4833.7
45°	226.9	266.5	285.5	298.2	317.3	395.0	815.4	4178.5	5907.6	6115.4	5434.9
47.5°	206.2	250.6	266.5	276.0	301.4	433.1	783.7	4381.5	6762.7	7194.2	6448.6
50°	187.2	236.4	253.8	252.2	298.2	482.3	818.6	4535.4	8047.6	8555.3	7838.2
52.5°	166.6	220.5	241.1	234.8	322.0	520.3	888.4	4657.6	9036.0	10151.2	9705.4
55°	149.1	203.1	222.1	220.5	366.5	548.9	942.3	4013.5	9445.2	11634.4	11808.9
57.5°	136.4	184.0	199.9	226.9	395.0	548.9	1089.8	2849.1	9453.2	12725.8	14600.9
60°	125.3	166.6	177.7	249.1	383.9	520.3	1078.7	1745.0	8712.3	12651.3	16085.8
62.5°	115.8	150.7	165.0	255.4	339.5	515.6	974.0	1081.9	7430.5	11688.4	15008.6
65°	107.9	138.0	158.6	234.8	307.8	552.1	656.8	777.3	6026.6	10590.6	13772.8
67.5°	99.9	126.9	168.2	192.0	279.2	493.4	474.3	552.1	4730.5	9386.5	12638.6
70°	93.6	120.6	177.7	157.1	244.3	385.5	336.3	418.8	3621.7	7831.9	11041.1
72.5°	88.8	112.6	149.1	123.7	198.3	298.2	234.8	304.6	2366.9	6113.9	9001.1
75°	84.1	103.1	109.5	99.9	147.5	195.1	177.7	204.6	1410.3	4468.8	6829.3
77.5°	82.5	96.8	88.8	80.9	99.9	115.8	134.8	138.0	688.5	2235.2	3578.8
80°	73.0	87.3	76.1	66.6	68.2	76.1	99.9	92.0	157.1	567.9	955.0
82.5°	57.1	68.2	63.5	55.5	55.5	55.5	66.6	61.9	50.8	255.4	431.5
85°	39.7	47.6	47.6	44.4	42.8	42.8	41.2	39.7	14.3	15.9	23.8
87.5°	27.0	33.3	34.9	33.3	28.6	25.4	22.2	19.0	6.3	0.0	3.2
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: P640021  
 CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8
2.5°	736.1	740.8	740.8	734.5	729.7	717.0	704.3	691.7	688.5	686.9
5°	736.1	755.1	764.6	763.0	751.9	731.3	704.3	675.8	667.9	664.7
7.5°	725.0	761.5	790.0	794.8	774.1	737.7	688.5	645.7	634.5	629.8
10°	750.4	821.7	878.8	886.8	863.0	791.6	712.3	639.3	621.9	610.8
12.5°	886.8	1004.2	1074.0	1107.3	1061.3	970.9	839.2	709.1	669.4	652.0
15°	1162.8	1329.4	1462.6	1462.6	1419.8	1259.6	1093.0	882.0	828.1	780.5
17.5°	1516.6	1726.0	1843.4	1830.7	1765.6	1653.0	1453.1	1150.1	1040.7	991.5
20°	1919.5	2044.8	2071.8	2063.9	2035.3	1970.3	1832.3	1507.0	1359.5	1283.4
22.5°	2268.5	2235.2	2195.5	2163.8	2155.9	2174.9	2155.9	1905.2	1789.4	1654.6
25°	2504.9	2316.1	2197.1	2140.0	2167.0	2276.4	2395.4	2301.8	2209.8	2070.2
27.5°	2633.4	2306.6	2135.3	2076.6	2122.6	2278.0	2536.6	2695.2	2600.1	2533.4
30°	2703.2	2298.6	2095.6	2038.5	2108.3	2303.4	2635.0	3063.3	3066.4	2960.2
32.5°	2803.1	2349.4	2103.5	2051.2	2144.8	2379.6	2758.7	3437.7	3529.7	3472.6
35°	2915.7	2427.1	2140.0	2092.4	2208.2	2481.1	2896.7	3815.2	4007.2	3988.1
37.5°	3022.0	2514.4	2225.7	2179.7	2305.0	2568.3	3030.0	4186.4	4452.9	4519.6
40°	3133.1	2636.5	2489.0	2533.4	2603.2	2706.3	3148.9	4508.5	4943.1	5043.1
42.5°	3394.8	3060.1	3285.4	3369.4	3379.0	3166.4	3409.1	4920.9	5425.4	5544.4
45°	3978.6	3813.6	4459.3	4578.3	4516.4	3872.3	4035.7	5515.8	6099.6	6159.9
47.5°	4716.3	4792.4	6066.3	6477.1	6105.9	4705.2	4795.6	6767.4	7333.8	7311.6
50°	5576.1	5936.2	7890.6	8859.9	7971.5	5787.1	5671.3	8306.2	8993.1	8924.9
52.5°	6592.9	7265.6	10083.0	11459.9	10619.1	7003.8	6956.2	10344.7	10763.5	10546.2
55°	7873.1	8548.9	12605.3	14529.5	13333.4	8488.7	8652.1	12708.4	12789.3	12099.2
57.5°	9783.1	10222.6	15578.1	18049.7	16166.7	10506.5	11691.5	15854.2	14886.5	13579.3
60°	13250.9	12375.3	18451.0	21650.7	19180.8	13344.5	15700.3	17718.1	15584.5	13782.4
62.5°	14458.2	14202.8	20250.0	23173.7	21208.2	15674.9	16742.5	16661.6	14680.2	13014.6
65°	12629.1	13747.5	19928.0	22369.4	20948.0	15291.0	15024.5	15495.6	13661.8	11848.6
67.5°	11666.1	12678.3	18708.0	20150.0	19506.0	13988.6	13392.1	13263.6	11469.4	10025.8
70°	10695.3	11697.9	16939.2	17118.5	16818.7	11866.0	11082.4	10221.0	8572.7	7317.9
72.5°	9527.7	10079.8	14485.1	13634.8	13295.3	9319.9	9154.9	7697.1	6426.4	5349.2
75°	8309.4	8149.2	11293.4	9358.0	9611.8	7251.3	7732.0	5652.2	4708.3	3850.1
77.5°	6044.1	5925.1	7563.8	5684.0	6294.7	4749.6	4267.3	2255.8	2147.9	1852.9
80°	3372.6	4065.9	4084.9	3185.4	3973.9	3096.6	1067.6	74.6	47.6	69.8
82.5°	1567.3	1748.2	2214.6	1476.9	2266.9	1534.0	220.5	0.0	0.0	0.0
85°	507.6	742.4	621.9	217.3	548.9	518.7	36.5	0.0	0.0	0.0
87.5°	30.1	61.9	15.9	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)