

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: P637546

Luminaire Tested: GWS-SA4D-722-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637546  
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-SA4D-722-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

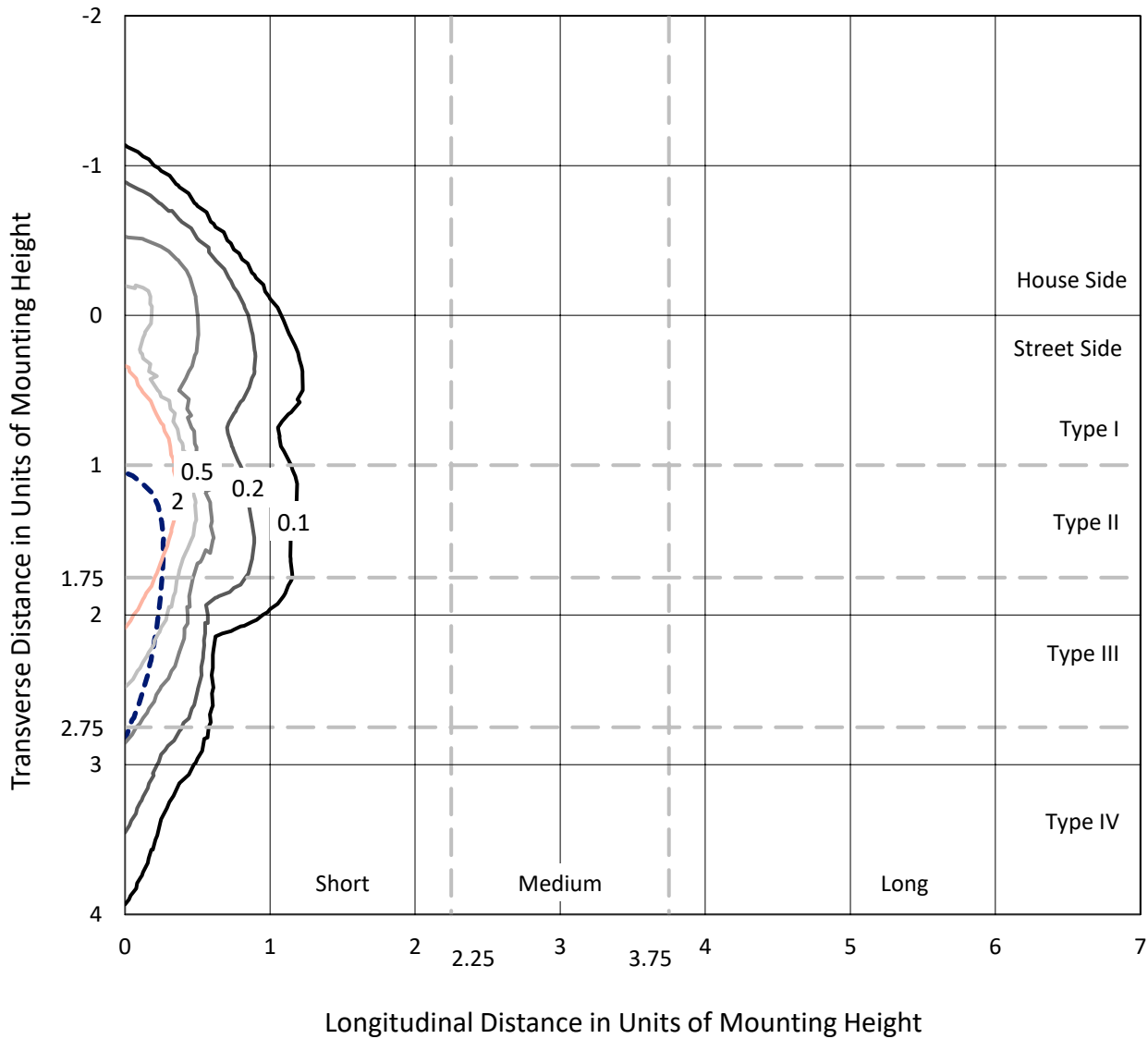
Lumens per Lamp: N/A  
Luminaire Lumens: 10921.7 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637546  
 CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

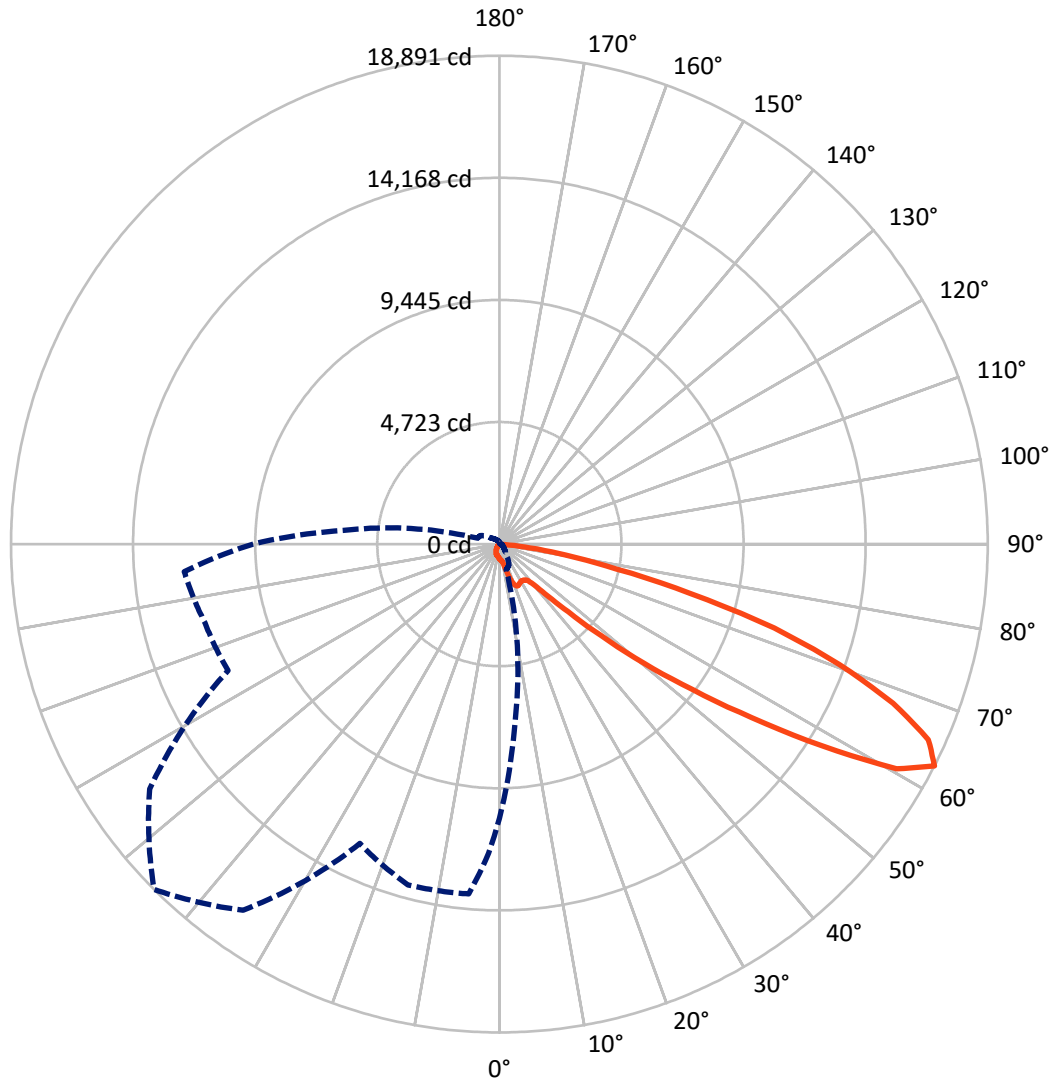
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P637546  
CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P637546

CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1269.0	0.0	1269.0
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	9652.7	0.0	9652.7
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	10921.7	0.0	10921.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.9	0.4
10°-20°	167.6	1.5
20°-30°	378.7	3.5
30°-40°	652.5	6.0
40°-50°	1230.8	11.3
50°-60°	2748.0	25.2
60°-70°	3675.4	33.7
70°-80°	1843.1	16.9
80°-90°	176.7	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°	10921.7	100.0
0°-180°	10921.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637546

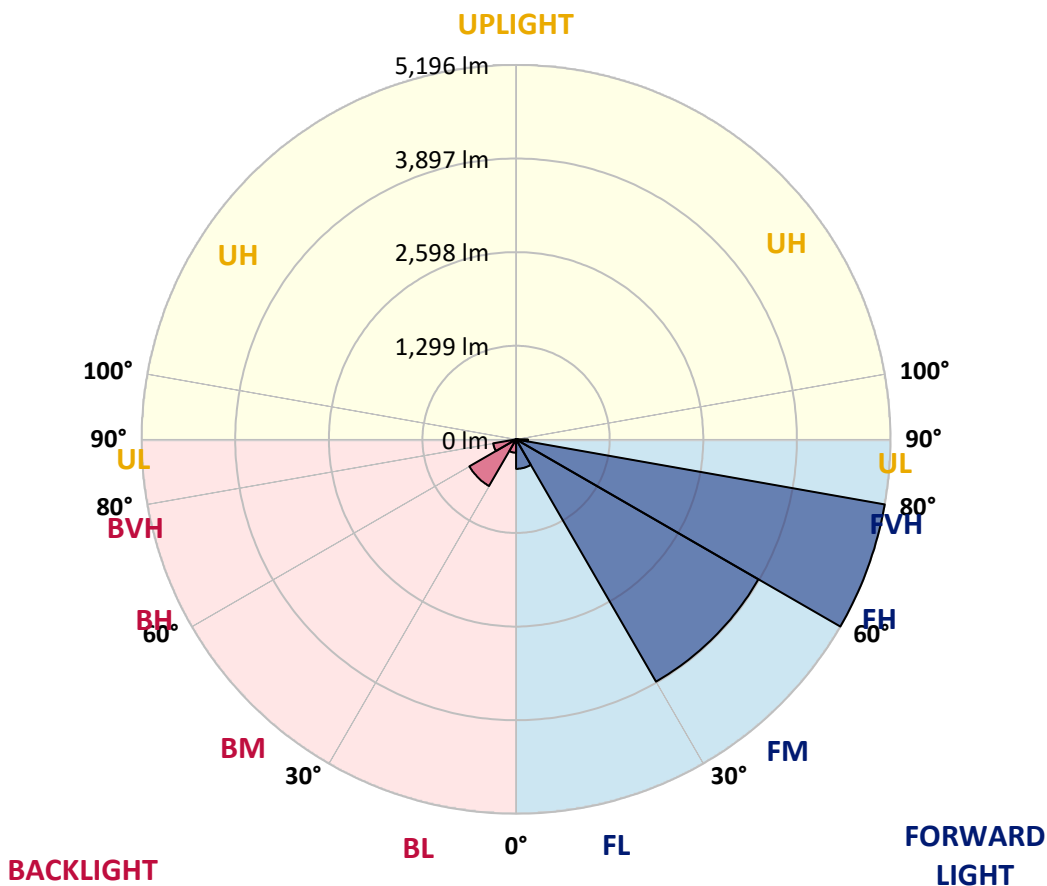
CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.0	3.7			
FM (30°-60°)	3883.0	35.6			
FH (60°-80°)	5195.8	47.6			G3/7500
FVH (80°-90°)	164.9	1.5			G2/225
BL (0°-30°)	186.3	1.7	B1/500		
BM (30°-60°)	748.3	6.9	B1/1000		
BH (60°-80°)	322.7	3.0	B1/500		G1/500
BVH (80°-90°)	11.8	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: P637546

CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4
2.5°	559.9	558.7	556.1	548.3	541.8	538.0	530.2	530.2	528.9	526.3	521.2
5°	541.8	536.7	531.5	517.3	501.8	492.7	482.4	481.1	481.1	478.5	477.2
7.5°	513.4	508.2	501.8	478.5	464.3	455.2	446.1	444.9	441.0	441.0	441.0
10°	497.9	490.1	479.8	453.9	439.7	431.9	425.5	421.6	419.0	415.1	413.8
12.5°	531.5	517.3	495.3	448.7	429.3	419.0	411.2	408.6	400.9	395.7	391.8
15°	636.2	601.3	557.4	460.4	425.5	409.9	399.6	394.4	388.0	378.9	372.4
17.5°	808.2	757.8	684.1	497.9	421.6	402.2	389.2	380.2	371.1	360.8	353.0
20°	1046.2	971.2	883.2	566.4	421.6	393.1	377.6	366.0	353.0	341.4	332.3
22.5°	1348.8	1273.8	1123.8	682.8	426.8	381.5	363.4	347.9	332.3	322.0	311.7
25°	1687.6	1581.6	1441.9	823.8	441.0	366.0	346.6	331.1	316.8	303.9	292.3
27.5°	2065.2	1950.1	1763.9	1024.2	472.0	350.5	328.5	314.2	301.3	288.4	272.9
30°	2413.1	2344.5	2154.4	1264.7	522.4	340.1	314.2	301.3	288.4	271.6	257.3
32.5°	2830.8	2709.2	2552.7	1538.9	589.7	329.8	302.6	284.5	274.2	258.6	243.1
35°	3251.1	3147.6	2942.0	1876.4	664.7	319.4	288.4	271.6	262.5	244.4	227.6
37.5°	3684.3	3661.0	3458.0	2250.1	738.4	307.8	271.6	261.2	252.2	231.5	212.1
40°	4111.0	4068.4	3880.8	2676.9	783.7	294.8	257.3	250.9	240.5	217.3	195.3
42.5°	4519.7	4487.4	4305.0	3085.5	777.2	283.2	243.1	235.4	227.6	204.3	177.2
45°	5021.4	4968.4	4738.2	3388.1	711.3	296.1	228.9	216.0	214.7	192.7	159.1
47.5°	5960.3	5785.7	5395.2	3620.9	645.3	329.8	213.4	197.9	206.9	181.0	141.0
50°	7275.5	7069.8	6504.7	3802.0	644.0	373.7	210.8	181.0	200.4	172.0	125.4
52.5°	8597.1	8235.0	7548.3	3899.0	691.9	406.1	234.1	164.2	192.7	162.9	113.8
55°	9863.1	9111.8	7985.4	3578.2	729.4	441.0	276.7	155.2	178.5	152.6	107.3
57.5°	11069.7	9816.6	8175.5	2830.8	854.8	455.2	302.6	159.1	157.8	139.7	102.2
60°	11235.2	9782.9	7791.4	1646.2	942.7	430.6	292.3	177.2	138.4	124.1	93.1
62.5°	10609.3	9132.5	6916.0	1026.8	875.5	421.6	259.9	201.7	125.4	109.9	81.5
65°	9658.8	8112.1	5766.3	662.1	663.4	468.1	227.6	197.9	117.7	97.0	69.8
67.5°	8172.9	6789.2	4543.0	443.6	375.0	399.6	199.2	135.8	115.1	82.8	54.3
70°	5965.5	4832.6	2957.5	296.1	223.7	319.4	166.8	97.0	108.6	68.5	38.8
72.5°	4360.6	3247.2	1651.4	194.0	126.7	186.2	122.9	69.8	84.1	50.4	27.2
75°	3138.6	2234.6	942.7	124.1	84.1	102.2	80.2	47.8	54.3	40.1	24.6
77.5°	1510.4	1088.9	428.0	68.5	56.9	51.7	42.7	29.7	33.6	36.2	22.0
80°	56.9	42.7	32.3	33.6	36.2	23.3	19.4	15.5	19.4	24.6	11.6
82.5°	0.0	0.0	0.0	3.9	5.2	6.5	7.8	6.5	7.8	9.1	1.3
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: P637546  
 CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4
2.5°	525.0	522.4	525.0	527.6	530.2	532.8	528.9	531.5	534.1	527.6	530.2
5°	483.7	482.4	490.1	494.0	499.2	501.8	499.2	499.2	497.9	490.1	490.1
7.5°	447.4	448.7	455.2	464.3	470.7	474.6	472.0	470.7	466.8	455.2	455.2
10°	420.3	420.3	430.6	438.4	447.4	451.3	448.7	444.9	441.0	429.3	428.0
12.5°	398.3	398.3	406.1	419.0	429.3	434.5	433.2	428.0	421.6	409.9	408.6
15°	377.6	376.3	388.0	399.6	413.8	420.3	417.7	413.8	402.2	391.8	389.2
17.5°	356.9	355.6	366.0	381.5	397.0	406.1	404.8	395.7	385.4	372.4	369.9
20°	336.2	333.6	346.6	362.1	377.6	386.7	384.1	376.3	363.4	350.5	347.9
22.5°	315.5	314.2	323.3	336.2	350.5	358.2	356.9	350.5	337.5	325.9	325.9
25°	292.3	292.3	298.7	307.8	318.1	322.0	323.3	320.7	313.0	306.5	306.5
27.5°	272.9	269.0	271.6	274.2	279.3	285.8	285.8	288.4	289.7	287.1	288.4
30°	257.3	250.9	247.0	241.8	239.2	241.8	244.4	253.5	262.5	267.7	270.3
32.5°	239.2	231.5	221.1	206.9	197.9	195.3	203.0	219.8	236.7	248.3	254.8
35°	221.1	210.8	191.4	170.7	159.1	155.2	164.2	183.6	208.2	228.9	237.9
37.5°	203.0	188.8	161.6	137.1	124.1	121.6	130.6	151.3	179.8	208.2	219.8
40°	182.3	165.5	133.2	107.3	97.0	94.4	102.2	122.9	152.6	184.9	203.0
42.5°	161.6	141.0	107.3	85.4	75.0	75.0	85.4	100.9	128.0	162.9	184.9
45°	141.0	119.0	87.9	68.5	62.1	63.4	69.8	85.4	107.3	143.5	164.2
47.5°	121.6	102.2	72.4	56.9	51.7	53.0	60.8	73.7	91.8	124.1	146.1
50°	104.7	86.6	63.4	47.8	44.0	46.6	54.3	66.0	81.5	109.9	128.0
52.5°	94.4	77.6	58.2	41.4	38.8	41.4	49.1	59.5	73.7	97.0	115.1
55°	89.2	76.3	58.2	37.5	33.6	36.2	44.0	54.3	66.0	87.9	103.5
57.5°	87.9	78.9	62.1	33.6	28.5	31.0	38.8	49.1	60.8	80.2	93.1
60°	82.8	75.0	60.8	27.2	22.0	25.9	32.3	42.7	55.6	75.0	86.6
62.5°	72.4	66.0	53.0	22.0	16.8	19.4	27.2	37.5	50.4	68.5	81.5
65°	59.5	53.0	41.4	14.2	10.3	12.9	20.7	32.3	44.0	62.1	73.7
67.5°	44.0	37.5	28.5	9.1	5.2	9.1	16.8	27.2	40.1	55.6	67.2
70°	27.2	22.0	15.5	5.2	3.9	7.8	15.5	25.9	36.2	51.7	63.4
72.5°	15.5	10.3	6.5	2.6	3.9	7.8	15.5	25.9	34.9	49.1	59.5
75°	11.6	6.5	2.6	1.3	2.6	6.5	14.2	23.3	33.6	46.6	56.9
77.5°	7.8	3.9	1.3	0.0	1.3	5.2	12.9	22.0	31.0	44.0	54.3
80°	1.3	0.0	0.0	0.0	0.0	3.9	11.6	19.4	28.5	38.8	47.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.3	9.1	16.8	24.6	32.3	38.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	12.9	19.4	24.6	27.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	12.9	15.5	18.1
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: P637546  
 CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4
2.5°	528.9	536.7	536.7	541.8	548.3	559.9	566.4	575.5	581.9	588.4	591.0
5°	488.8	490.1	491.4	494.0	501.8	514.7	526.3	540.6	557.4	570.3	578.1
7.5°	455.2	455.2	455.2	459.1	466.8	475.9	487.5	506.9	526.3	541.8	554.8
10°	426.8	430.6	431.9	438.4	447.4	459.1	472.0	488.8	510.8	531.5	554.8
12.5°	408.6	412.5	419.0	425.5	434.5	447.4	461.7	483.7	528.9	571.6	620.7
15°	391.8	397.0	404.8	413.8	424.2	438.4	453.9	499.2	605.2	685.4	763.0
17.5°	373.7	381.5	391.8	400.9	413.8	429.3	448.7	536.7	744.9	878.1	1010.0
20°	350.5	360.8	372.4	386.7	402.2	420.3	448.7	614.3	946.6	1138.0	1312.6
22.5°	328.5	338.8	353.0	371.1	389.2	407.4	455.2	731.9	1206.5	1448.4	1669.5
25°	310.4	323.3	337.5	353.0	373.7	394.4	470.7	897.5	1519.5	1831.2	1987.6
27.5°	293.6	309.1	323.3	336.2	354.3	377.6	505.6	1118.6	1889.3	2206.2	2329.0
30°	276.7	294.8	309.1	322.0	340.1	364.7	558.7	1400.5	2300.6	2608.4	2621.3
32.5°	262.5	279.3	296.1	309.1	325.9	354.3	632.4	1730.3	2722.2	3019.6	2898.0
35°	247.0	266.4	281.9	296.1	314.2	345.3	717.7	2085.9	3147.6	3397.2	3173.5
37.5°	231.5	253.5	272.9	283.2	301.3	336.2	779.8	2457.1	3582.1	3765.8	3415.3
40°	217.3	241.8	263.8	274.2	283.2	324.6	788.8	2837.2	4023.1	4129.1	3642.9
42.5°	201.7	228.9	248.3	262.5	270.3	316.8	734.5	3158.0	4392.9	4491.2	3940.3
45°	184.9	217.3	232.8	243.1	258.6	322.0	664.7	3406.2	4815.8	4985.2	4430.5
47.5°	168.1	204.3	217.3	225.0	245.7	353.0	638.8	3571.8	5512.8	5864.6	5256.8
50°	152.6	192.7	206.9	205.6	243.1	393.1	667.3	3697.2	6560.3	6974.1	6389.6
52.5°	135.8	179.8	196.6	191.4	262.5	424.2	724.2	3796.8	7366.0	8275.1	7911.7
55°	121.6	165.5	181.0	179.8	298.7	447.4	768.2	3271.8	7699.6	9484.2	9626.5
57.5°	111.2	150.0	162.9	184.9	322.0	447.4	888.4	2322.6	7706.1	10373.9	11902.5
60°	102.2	135.8	144.8	203.0	313.0	424.2	879.4	1422.5	7102.2	10313.2	13112.9
62.5°	94.4	122.9	134.5	208.2	276.7	420.3	794.0	882.0	6057.3	9528.2	12234.8
65°	87.9	112.5	129.3	191.4	250.9	450.0	535.4	633.7	4912.8	8633.3	11227.4
67.5°	81.5	103.5	137.1	156.5	227.6	402.2	386.7	450.0	3856.3	7651.8	10302.8
70°	76.3	98.3	144.8	128.0	199.2	314.2	274.2	341.4	2952.3	6384.5	9000.6
72.5°	72.4	91.8	121.6	100.9	161.6	243.1	191.4	248.3	1929.4	4983.9	7337.5
75°	68.5	84.1	89.2	81.5	120.3	159.1	144.8	166.8	1149.6	3642.9	5567.2
77.5°	67.2	78.9	72.4	66.0	81.5	94.4	109.9	112.5	561.2	1822.1	2917.4
80°	59.5	71.1	62.1	54.3	55.6	62.1	81.5	75.0	128.0	463.0	778.5
82.5°	46.6	55.6	51.7	45.3	45.3	45.3	54.3	50.4	41.4	208.2	351.7
85°	32.3	38.8	38.8	36.2	34.9	34.9	33.6	32.3	11.6	12.9	19.4
87.5°	22.0	27.2	28.5	27.2	23.3	20.7	18.1	15.5	5.2	0.0	2.6
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: P637546

CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4	566.4
2.5°	600.0	603.9	603.9	598.7	594.9	584.5	574.2	563.8	561.2	559.9
5°	600.0	615.6	623.3	622.0	613.0	596.2	574.2	550.9	544.4	541.8
7.5°	591.0	620.7	644.0	647.9	631.1	601.3	561.2	526.3	517.3	513.4
10°	611.7	669.9	716.4	722.9	703.5	645.3	580.6	521.2	506.9	497.9
12.5°	722.9	818.6	875.5	902.6	865.1	791.4	684.1	578.1	545.7	531.5
15°	947.9	1083.7	1192.3	1192.3	1157.4	1026.8	891.0	719.0	675.0	636.2
17.5°	1236.3	1407.0	1502.7	1492.3	1439.3	1347.5	1184.6	937.6	848.3	808.2
20°	1564.8	1666.9	1688.9	1682.4	1659.2	1606.1	1493.6	1228.5	1108.3	1046.2
22.5°	1849.3	1822.1	1789.8	1763.9	1757.4	1773.0	1757.4	1553.1	1458.7	1348.8
25°	2041.9	1888.1	1791.1	1744.5	1766.5	1855.7	1952.7	1876.4	1801.4	1687.6
27.5°	2146.7	1880.3	1740.6	1692.8	1730.3	1857.0	2067.8	2197.1	2119.5	2065.2
30°	2203.6	1873.8	1708.3	1661.7	1718.6	1877.7	2148.0	2497.1	2499.7	2413.1
32.5°	2285.1	1915.2	1714.8	1672.1	1748.4	1939.8	2248.8	2802.3	2877.3	2830.8
35°	2376.9	1978.6	1744.5	1705.7	1800.1	2022.5	2361.4	3110.1	3266.6	3251.1
37.5°	2463.5	2049.7	1814.3	1776.8	1879.0	2093.7	2470.0	3412.7	3630.0	3684.3
40°	2554.0	2149.3	2029.0	2065.2	2122.1	2206.2	2567.0	3675.2	4029.6	4111.0
42.5°	2767.4	2494.6	2678.2	2746.7	2754.5	2581.2	2779.1	4011.5	4422.7	4519.7
45°	3243.3	3108.8	3635.1	3732.1	3681.7	3156.7	3289.9	4496.4	4972.3	5021.4
47.5°	3844.6	3906.7	4945.1	5280.1	4977.5	3835.6	3909.3	5516.7	5978.4	5960.3
50°	4545.5	4839.1	6432.3	7222.4	6498.3	4717.5	4623.1	6771.1	7331.1	7275.5
52.5°	5374.5	5922.8	8219.5	9342.0	8656.6	5709.4	5670.6	8432.9	8774.3	8597.1
55°	6418.1	6969.0	10275.6	11844.3	10869.2	6919.8	7053.0	10359.7	10425.7	9863.1
57.5°	7975.1	8333.3	12699.1	14713.9	13178.8	8564.8	9530.8	12924.1	12135.2	11069.7
60°	10802.0	10088.1	15041.0	17649.4	15635.9	10878.3	12798.7	14443.6	12704.2	11235.2
62.5°	11786.1	11577.9	16507.5	18890.8	17288.6	12778.0	13648.3	13582.3	11967.1	10609.3
65°	10295.0	11206.7	16245.0	18235.2	17076.5	12465.0	12247.8	12631.8	11136.9	9658.8
67.5°	9510.1	10335.1	15250.5	16426.0	15901.0	11403.3	10917.1	10812.3	9349.7	8172.9
70°	8718.7	9535.9	13808.6	13954.8	13710.3	9673.0	9034.2	8332.0	6988.4	5965.5
72.5°	7766.9	8216.9	11808.1	11114.9	10838.2	7597.5	7463.0	6274.5	5238.7	4360.6
75°	6773.7	6643.1	9206.2	7628.5	7835.4	5911.1	6303.0	4607.6	3838.2	3138.6
77.5°	4927.0	4830.0	6165.9	4633.5	5131.4	3871.8	3478.7	1838.9	1751.0	1510.4
80°	2749.3	3314.4	3330.0	2596.7	3239.4	2524.3	870.3	60.8	38.8	56.9
82.5°	1277.7	1425.1	1805.3	1204.0	1848.0	1250.5	179.8	0.0	0.0	0.0
85°	413.8	605.2	506.9	177.2	447.4	422.9	29.7	0.0	0.0	0.0
87.5°	24.6	50.4	12.9	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

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