

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: P638045

Luminaire Tested: GWS-SA4E-722-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638045
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-SA4E-722-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13989.3 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

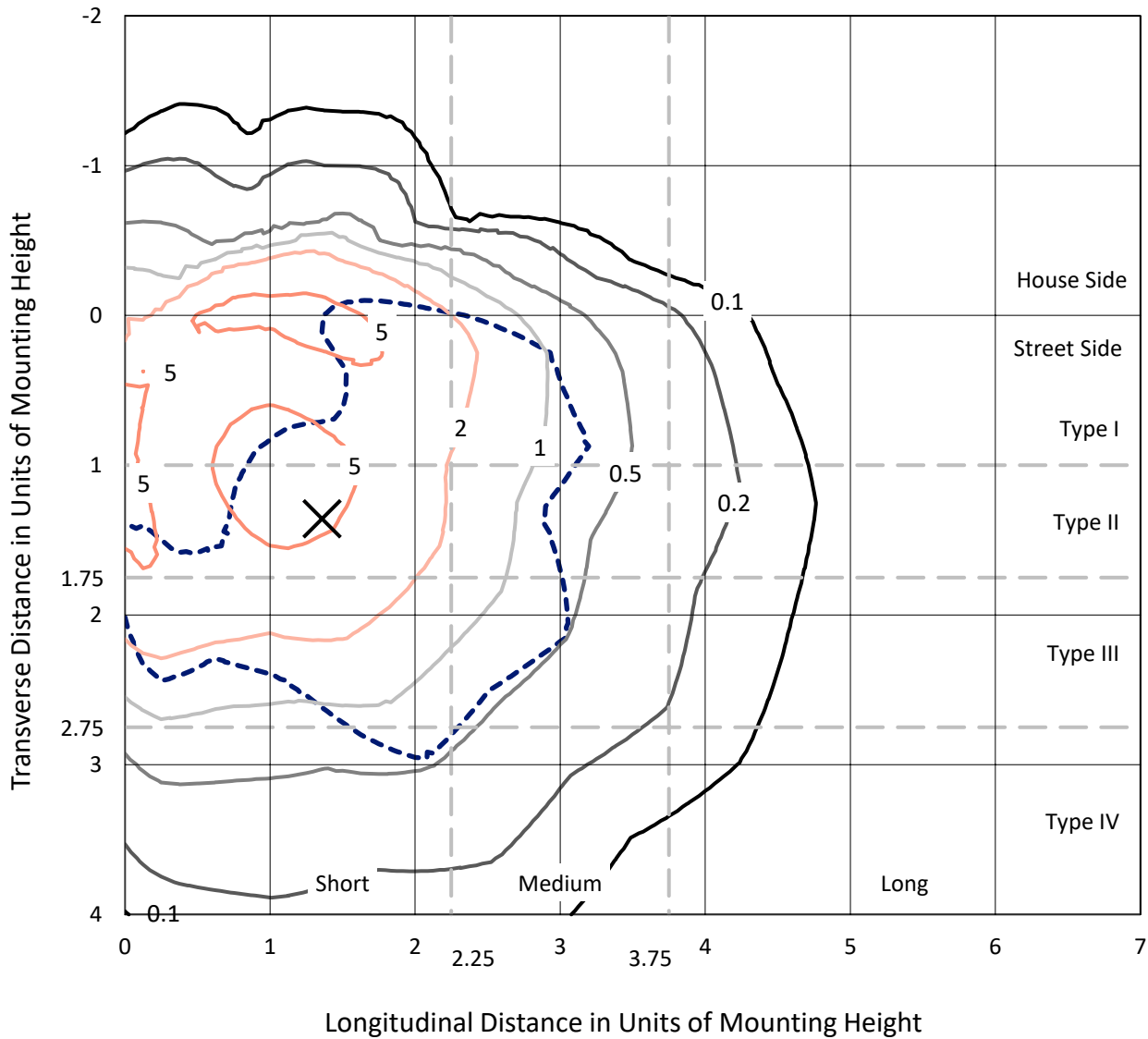
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638045
 CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

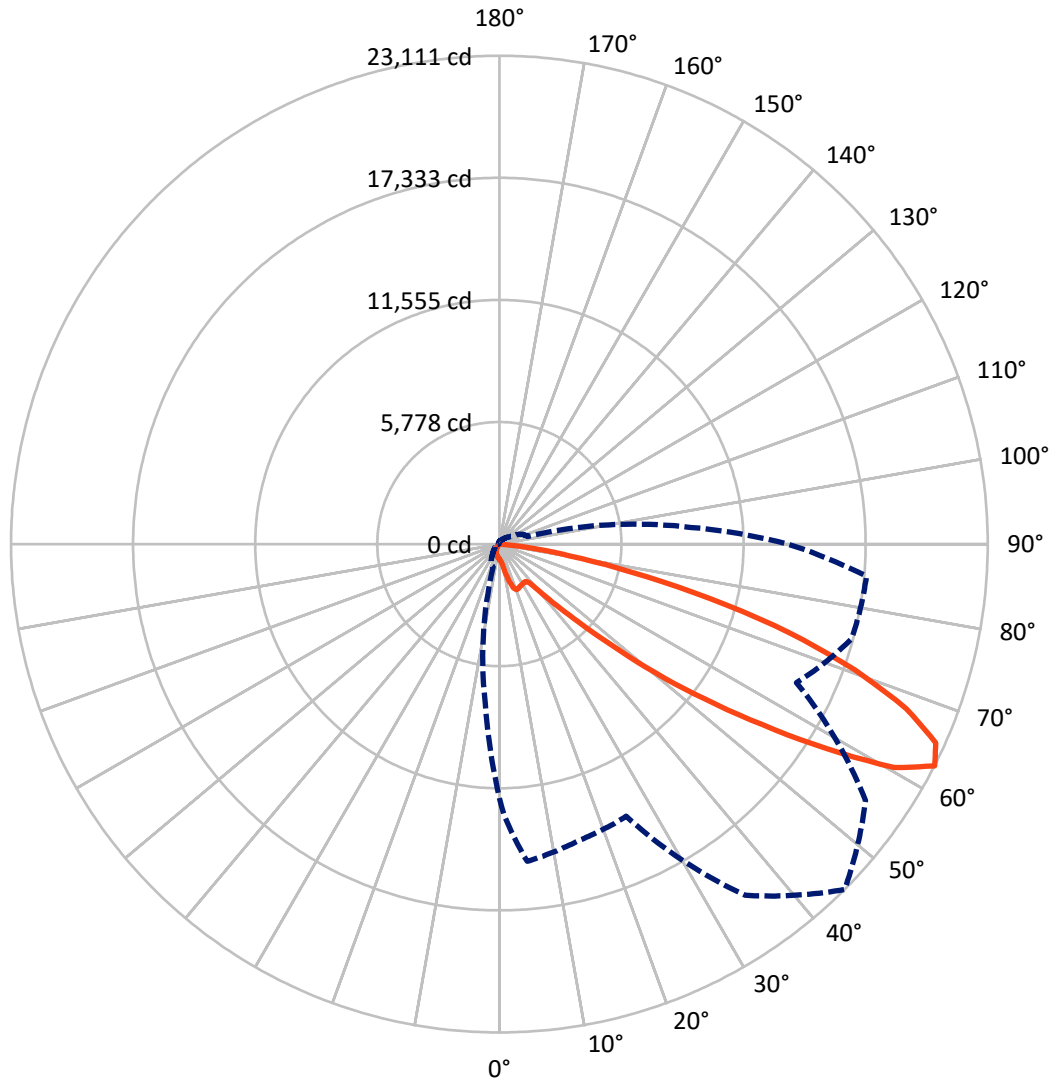
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P638045
CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638045
 CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.3	0.0	1726.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	12263.0	0.0	12263.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	13989.3	0.0	13989.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	0.5
10°-20°	243.9	1.7
20°-30°	530.2	3.8
30°-40°	870.2	6.2
40°-50°	1599.8	11.4
50°-60°	3435.6	24.6
60°-70°	4614.5	33.0
70°-80°	2402.8	17.2
80°-90°	227.8	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°	13989.3	100.0
0°-180°	13989.3	100.0

Coefficient of Utilization

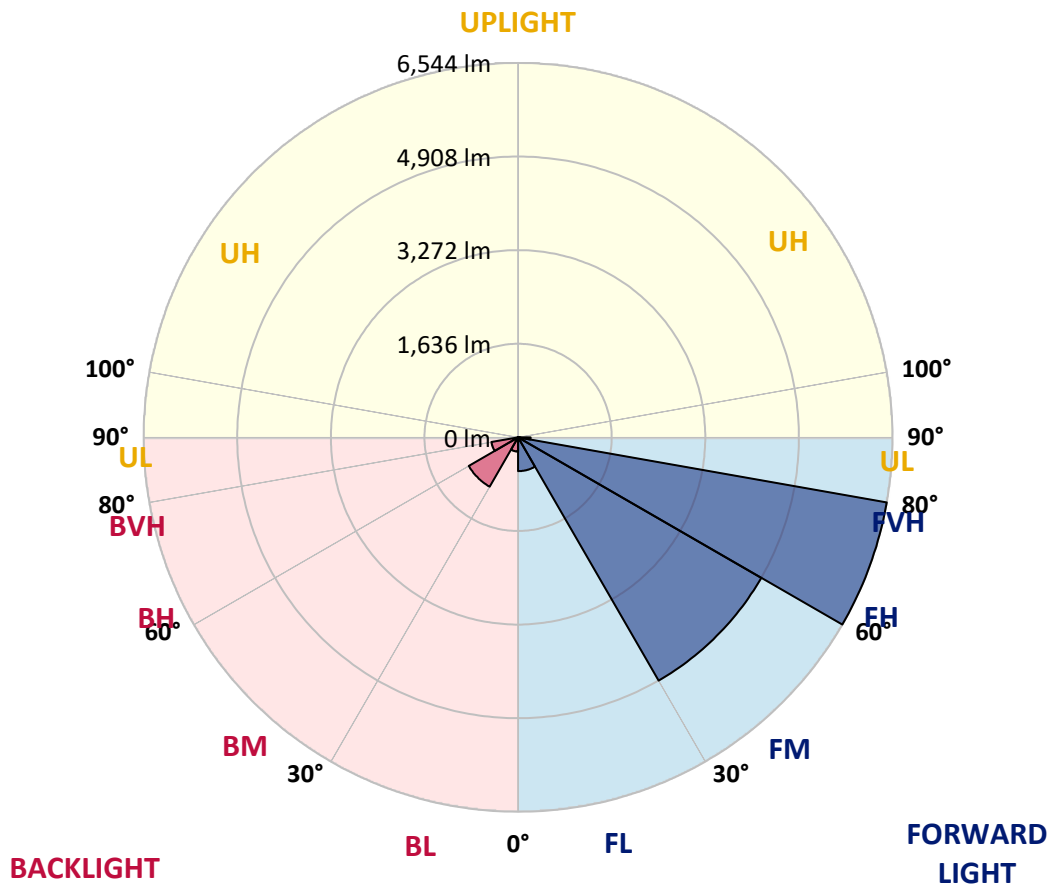


REPORT NUMBER: P638045
 CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.0	4.2			
FM (30°-60°)	4910.1	35.1			
FH (60°-80°)	6544.3	46.8			G3/7500
FVH (80°-90°)	217.7	1.6			G2/225
BL (0°-30°)	247.6	1.8	B1/500		
BM (30°-60°)	995.5	7.1	B1/1000		
BH (60°-80°)	473.0	3.4	B1/500		G1/500
BVH (80°-90°)	10.2	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 IV Short





REPORT NUMBER: P638045

CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	741.7	744.9	748.2	759.5	767.5	774.0	775.6	770.8	759.5	748.2	732.0
5°	719.1	722.3	733.6	764.3	795.0	819.3	827.3	822.5	795.0	759.5	722.3
7.5°	717.5	723.9	751.4	816.0	882.3	932.4	945.3	934.0	882.3	811.2	735.2
10°	775.6	786.9	827.3	943.7	1064.9	1153.7	1189.3	1140.8	1058.4	929.1	804.7
12.5°	927.5	946.9	1024.5	1194.1	1381.6	1499.5	1548.0	1488.2	1359.0	1171.5	974.4
15°	1166.7	1195.8	1312.1	1565.8	1787.2	1892.2	1908.4	1874.4	1724.2	1517.3	1252.3
17.5°	1504.4	1546.4	1727.4	1985.9	2145.9	2183.1	2178.2	2142.7	2032.8	1890.6	1640.1
20°	1908.4	1958.5	2136.2	2349.5	2365.7	2322.0	2297.8	2276.8	2239.6	2215.4	2019.9
22.5°	2315.6	2377.0	2562.8	2616.1	2470.7	2344.7	2284.9	2301.0	2356.0	2475.5	2396.4
25°	2721.2	2779.3	2953.8	2810.0	2519.2	2309.1	2233.2	2271.9	2402.8	2661.4	2763.2
27.5°	3194.6	3238.2	3341.7	2942.5	2527.3	2280.0	2205.7	2265.5	2425.5	2777.7	3165.5
30°	3687.5	3713.3	3663.2	2978.1	2499.8	2236.4	2178.2	2265.5	2464.2	2855.3	3467.7
32.5°	4049.4	4054.3	3891.1	2981.3	2485.2	2200.8	2152.4	2255.8	2501.4	2919.9	3760.2
35°	4422.7	4398.5	4109.2	3029.8	2524.0	2213.8	2171.8	2283.3	2559.6	2995.9	4017.1
37.5°	4800.8	4757.2	4353.2	3109.0	2624.2	2354.4	2328.5	2423.8	2653.3	3100.9	4299.9
40°	5188.6	5128.8	4606.9	3228.5	2847.2	2832.7	2921.5	2910.2	2910.2	3235.0	4590.7
42.5°	5662.1	5592.6	4981.8	3566.3	3367.5	3692.3	3934.7	3784.4	3506.5	3543.6	4968.9
45°	6287.4	6227.6	5631.4	4212.6	4183.5	4930.1	5256.5	4959.2	4267.6	4256.3	5600.7
47.5°	7287.7	7276.4	6667.2	4962.4	5182.2	6505.6	7135.8	6563.7	5135.3	5010.9	6796.4
50°	8693.5	8659.6	7958.3	5841.4	6369.8	8457.6	9582.2	8628.9	6184.0	5891.5	8397.8
52.5°	10277.1	10312.6	9766.4	6801.3	7631.9	10629.3	12195.1	10994.5	7323.2	7011.3	10412.8
55°	11768.5	11972.1	11828.3	7924.3	8864.8	13027.3	15064.9	13589.6	8733.9	8477.0	12671.8
57.5°	12935.2	13508.8	14517.2	9556.4	10314.2	15832.5	18269.3	16402.9	10380.5	10857.2	15746.9
60°	12999.8	13759.3	16100.7	12970.8	12179.0	18238.6	21468.7	19151.5	12969.1	14898.5	18156.1
62.5°	12025.5	12839.9	15069.8	14522.0	14210.1	20285.9	23110.5	21155.2	15515.8	17265.8	17441.9
65°	10910.5	11733.0	13919.3	12762.3	13974.2	20198.6	22693.6	21202.1	15746.9	15656.4	16163.8
67.5°	9225.1	9963.6	11943.0	11296.7	12880.3	19224.3	20767.4	19865.8	14507.5	14643.2	14869.4
70°	6733.4	7444.4	9281.7	9314.0	11248.2	17467.8	17844.3	17719.9	13360.2	13504.0	12857.6
72.5°	4863.8	5463.3	7048.5	7638.3	8979.5	14648.0	14387.9	14867.8	11463.1	12027.1	10327.2
75°	3496.8	3946.0	5170.9	6644.5	7118.0	10878.2	10299.7	11514.8	9197.6	10356.2	7764.4
77.5°	1418.8	1577.1	2034.4	4476.0	4678.0	7318.4	6305.2	8363.8	6557.3	6804.5	3763.4
80°	58.2	64.6	84.0	2310.7	3207.5	4117.3	3374.0	4471.2	4330.6	2740.6	888.7
82.5°	6.5	6.5	14.5	665.7	1404.2	2271.9	1590.0	2575.7	2192.8	1161.8	404.0
85°	1.6	1.6	3.2	75.9	329.6	363.6	214.9	790.2	1019.6	475.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	14.5	16.2	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: P638045
 CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	732.0	723.9	714.2	704.5	699.7	686.8	681.9	678.7	675.4	677.1	677.1
5°	707.8	690.0	669.0	648.0	636.7	623.7	617.3	614.0	615.7	622.1	622.1
7.5°	704.5	670.6	625.3	597.9	585.0	575.3	568.8	565.6	567.2	575.3	578.5
10°	757.9	698.1	617.3	570.4	555.9	546.2	539.7	534.9	531.6	538.1	539.7
12.5°	872.6	790.2	656.1	567.2	541.3	528.4	523.5	513.9	509.0	512.2	513.9
15°	1110.1	967.9	733.6	580.1	528.4	513.9	505.8	497.7	489.6	488.0	489.6
17.5°	1420.4	1216.8	851.6	610.8	518.7	500.9	489.6	478.3	467.0	465.4	463.8
20°	1804.9	1522.2	1016.4	659.3	510.6	489.6	473.5	457.3	442.8	437.9	437.9
22.5°	2155.6	1890.6	1228.1	719.1	499.3	473.5	454.1	434.7	418.5	410.4	408.8
25°	2583.8	2281.6	1481.8	788.6	483.2	452.4	431.4	412.1	395.9	386.2	383.0
27.5°	3015.3	2693.7	1769.4	879.0	463.8	431.4	412.1	394.3	376.5	365.2	362.0
30°	3433.8	3138.1	2092.6	992.2	449.2	410.4	394.3	376.5	360.3	342.6	337.7
32.5°	3883.0	3592.1	2454.5	1118.2	437.9	395.9	378.1	362.0	341.0	324.8	316.7
35°	4316.0	4060.7	2853.7	1241.0	426.6	383.0	363.6	347.4	324.8	307.0	295.7
37.5°	4752.3	4537.4	3270.6	1315.3	410.4	365.2	347.4	334.5	308.6	287.6	274.7
40°	5214.5	5030.3	3721.4	1284.6	395.9	345.8	336.1	321.6	292.5	268.2	252.1
42.5°	5721.9	5500.5	4180.3	1166.7	383.0	329.6	319.9	305.4	277.9	248.8	227.8
45°	6360.1	6016.0	4556.8	988.9	389.4	313.5	294.1	290.9	265.0	227.8	202.0
47.5°	7457.3	6807.7	4849.3	874.2	433.1	295.7	273.1	281.2	253.7	206.8	177.7
50°	9136.2	8119.9	5122.4	866.1	499.3	287.6	253.7	274.7	242.4	185.8	156.7
52.5°	10736.0	9453.0	5296.9	937.2	557.5	308.6	234.3	266.6	234.3	171.3	142.2
55°	12266.2	10222.1	4985.0	988.9	612.4	371.7	219.8	253.7	224.6	163.2	137.4
57.5°	13916.1	10564.7	3925.0	1094.0	651.2	425.0	223.0	234.3	211.7	158.4	135.7
60°	14408.9	10126.8	2368.9	1231.3	630.2	441.1	247.2	208.4	193.9	148.7	130.9
62.5°	13643.0	9087.8	1397.7	1121.4	612.4	416.9	282.8	192.3	176.1	135.7	121.2
65°	12497.3	7677.1	911.4	946.9	649.6	371.7	300.6	184.2	160.0	122.8	106.6
67.5°	11188.4	6184.0	638.3	559.1	599.5	334.5	253.7	182.6	143.8	103.4	87.3
70°	9423.9	4631.1	449.2	370.0	499.3	297.3	197.1	177.7	126.0	84.0	67.9
72.5°	7281.2	2898.9	334.5	239.2	355.5	242.4	156.7	150.3	101.8	69.5	51.7
75°	5369.6	1653.1	235.9	172.9	234.3	184.2	116.3	106.6	87.3	66.3	46.9
77.5°	2803.6	827.3	147.0	132.5	134.1	114.7	84.0	77.6	80.8	66.3	43.6
80°	538.1	164.8	88.9	97.0	72.7	72.7	61.4	64.6	71.1	53.3	37.2
82.5°	224.6	35.5	48.5	54.9	45.2	50.1	50.1	51.7	50.1	38.8	27.5
85°	0.0	0.0	21.0	22.6	30.7	30.7	25.9	25.9	25.9	22.6	16.2
87.5°	0.0	0.0	0.0	0.0	1.6	4.8	9.7	11.3	12.9	9.7	6.5
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: P638045

CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	675.4	672.2	677.1	680.3	683.5	683.5	680.3	677.1	672.2	677.1	672.2
5°	623.7	628.6	636.7	639.9	643.1	636.7	633.4	623.7	615.7	617.3	614.0
7.5°	583.3	588.2	597.9	604.3	604.3	601.1	591.4	581.7	568.8	568.8	567.2
10°	546.2	552.6	563.9	572.0	575.3	572.0	562.3	549.4	538.1	538.1	533.2
12.5°	515.5	523.5	536.5	547.8	551.0	547.8	538.1	525.2	512.2	512.2	509.0
15°	489.6	499.3	513.9	526.8	531.6	526.8	515.5	499.3	486.4	488.0	483.2
17.5°	465.4	473.5	492.8	507.4	512.2	507.4	492.8	471.8	458.9	462.1	458.9
20°	437.9	447.6	467.0	483.2	488.0	483.2	467.0	444.4	431.4	431.4	433.1
22.5°	408.8	418.5	437.9	449.2	455.7	450.8	434.7	413.7	400.7	400.7	402.4
25°	383.0	387.8	402.4	413.7	415.3	410.4	397.5	381.4	371.7	376.5	378.1
27.5°	358.7	358.7	365.2	371.7	370.0	365.2	360.3	347.4	345.8	350.6	355.5
30°	332.9	324.8	321.6	316.7	315.1	313.5	318.3	318.3	321.6	328.0	332.9
32.5°	310.3	294.1	279.5	265.0	256.9	263.4	276.3	287.6	298.9	308.6	313.5
35°	284.4	258.5	234.3	214.9	202.0	211.7	232.7	253.7	273.1	286.0	294.1
37.5°	258.5	221.4	192.3	168.1	158.4	166.4	189.1	218.1	247.2	263.4	274.7
40°	231.1	184.2	150.3	130.9	121.2	129.3	151.9	181.0	219.8	240.8	255.3
42.5°	203.6	151.9	121.2	101.8	97.0	101.8	119.6	148.7	190.7	216.5	235.9
45°	176.1	126.0	97.0	82.4	77.6	82.4	97.0	121.2	163.2	192.3	214.9
47.5°	151.9	106.6	80.8	67.9	64.6	69.5	80.8	101.8	137.4	166.4	192.3
50°	132.5	93.7	69.5	58.2	54.9	59.8	69.5	85.6	116.3	142.2	169.7
52.5°	119.6	87.3	61.4	50.1	48.5	51.7	59.8	72.7	98.6	121.2	147.0
55°	116.3	87.3	56.6	45.2	43.6	46.9	53.3	63.0	85.6	105.0	127.7
57.5°	119.6	93.7	53.3	38.8	37.2	40.4	46.9	54.9	74.3	90.5	111.5
60°	119.6	95.3	46.9	30.7	29.1	32.3	38.8	48.5	66.3	79.2	97.0
62.5°	108.3	87.3	38.8	24.2	21.0	24.2	32.3	40.4	58.2	71.1	85.6
65°	93.7	74.3	32.3	17.8	14.5	17.8	25.9	33.9	50.1	61.4	77.6
67.5°	75.9	56.6	24.2	12.9	9.7	12.9	19.4	27.5	42.0	53.3	69.5
70°	56.6	40.4	19.4	11.3	9.7	11.3	17.8	25.9	37.2	48.5	64.6
72.5°	42.0	27.5	16.2	11.3	8.1	11.3	16.2	24.2	35.5	46.9	61.4
75°	35.5	22.6	14.5	9.7	8.1	9.7	14.5	22.6	32.3	43.6	58.2
77.5°	33.9	21.0	12.9	8.1	6.5	8.1	12.9	19.4	29.1	40.4	56.6
80°	29.1	17.8	11.3	6.5	4.8	6.5	11.3	16.2	22.6	30.7	43.6
82.5°	22.6	14.5	8.1	3.2	1.6	3.2	8.1	9.7	14.5	17.8	25.9
85°	14.5	8.1	3.2	0.0	0.0	0.0	3.2	6.5	6.5	8.1	12.9
87.5°	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8
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: P638045
 CATALOG NUMBER: GWS-SA4E-722-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	681.9	683.5	686.8	691.6	702.9	712.6	722.3	735.2	741.7	741.7
5°	617.3	618.9	620.5	627.0	643.1	656.1	677.1	702.9	715.8	719.1
7.5°	567.2	570.4	573.6	578.5	594.6	612.4	639.9	688.4	712.6	717.5
10°	538.1	542.9	549.4	559.1	573.6	593.0	639.9	727.2	767.5	775.6
12.5°	515.5	523.5	530.0	541.3	559.1	589.8	683.5	837.0	908.1	927.5
15°	492.8	502.5	512.2	523.5	542.9	601.1	767.5	1034.2	1152.1	1166.7
17.5°	470.2	481.5	494.5	507.4	531.6	628.6	900.1	1307.3	1472.1	1504.4
20°	444.4	458.9	476.7	492.8	520.3	672.2	1084.3	1632.0	1838.9	1908.4
22.5°	416.9	434.7	455.7	476.7	507.4	725.5	1307.3	1981.1	2270.3	2315.6
25°	394.3	412.1	431.4	452.4	486.4	790.2	1577.1	2414.1	2677.5	2721.2
27.5°	373.3	391.0	408.8	428.2	465.4	874.2	1901.9	2874.7	3149.4	3194.6
30°	350.6	371.7	389.4	408.8	446.0	977.6	2276.8	3385.3	3645.4	3687.5
32.5°	331.3	352.3	370.0	389.4	431.4	1090.7	2671.1	3837.7	4049.4	4049.4
35°	315.1	337.7	350.6	376.5	420.1	1163.4	3044.3	4269.2	4429.2	4422.7
37.5°	297.3	324.8	334.5	352.3	405.6	1171.5	3395.0	4724.9	4842.8	4800.8
40°	279.5	308.6	323.2	332.9	389.4	1105.3	3779.6	5143.4	5243.6	5188.6
42.5°	263.4	286.0	307.0	318.3	379.7	988.9	4088.2	5591.0	5710.6	5662.1
45°	247.2	266.6	279.5	300.6	386.2	908.1	4353.2	6112.9	6323.0	6287.4
47.5°	231.1	247.2	255.3	287.6	429.8	871.0	4514.8	6920.9	7316.8	7287.7
50°	213.3	232.7	232.7	284.4	494.5	883.9	4655.4	8090.8	8703.2	8693.5
52.5°	195.5	216.5	213.3	308.6	544.6	943.7	4815.4	9123.3	10188.2	10277.1
55°	177.7	197.1	200.4	357.1	573.6	995.4	4196.5	9558.0	11456.7	11768.5
57.5°	158.4	169.7	208.4	394.3	563.9	1145.7	2874.7	9637.2	12266.2	12935.2
60°	137.4	147.0	235.9	386.2	533.2	1058.4	1809.8	8926.2	12151.5	12999.8
62.5°	119.6	135.7	248.8	341.0	542.9	917.8	1153.7	7607.6	11057.5	12025.5
65°	105.0	130.9	226.2	308.6	549.4	622.1	778.9	6188.9	9989.4	10910.5
67.5°	93.7	145.4	185.8	274.7	471.8	437.9	534.9	4808.9	8399.4	9225.1
70°	85.6	148.7	151.9	235.9	365.2	281.2	352.3	3236.6	5789.7	6733.4
72.5°	77.6	109.9	114.7	189.1	235.9	171.3	227.8	1851.8	4220.7	4863.8
75°	74.3	74.3	79.2	122.8	130.9	124.4	147.0	1105.3	3026.6	3496.8
77.5°	69.5	56.6	50.1	79.2	71.1	88.9	87.3	491.2	1312.1	1418.8
80°	54.9	40.4	33.9	50.1	48.5	59.8	51.7	40.4	59.8	58.2
82.5°	33.9	25.9	24.2	30.7	27.5	30.7	24.2	6.5	6.5	6.5
85°	16.2	14.5	12.9	12.9	14.5	12.9	9.7	3.2	1.6	1.6
87.5°	8.1	8.1	6.5	4.8	6.5	6.5	4.8	1.6	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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