

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: P638536

Luminaire Tested: GWS-SA4F-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638536
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-SA4F-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: 15174.5 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: B2 - U0 - G3

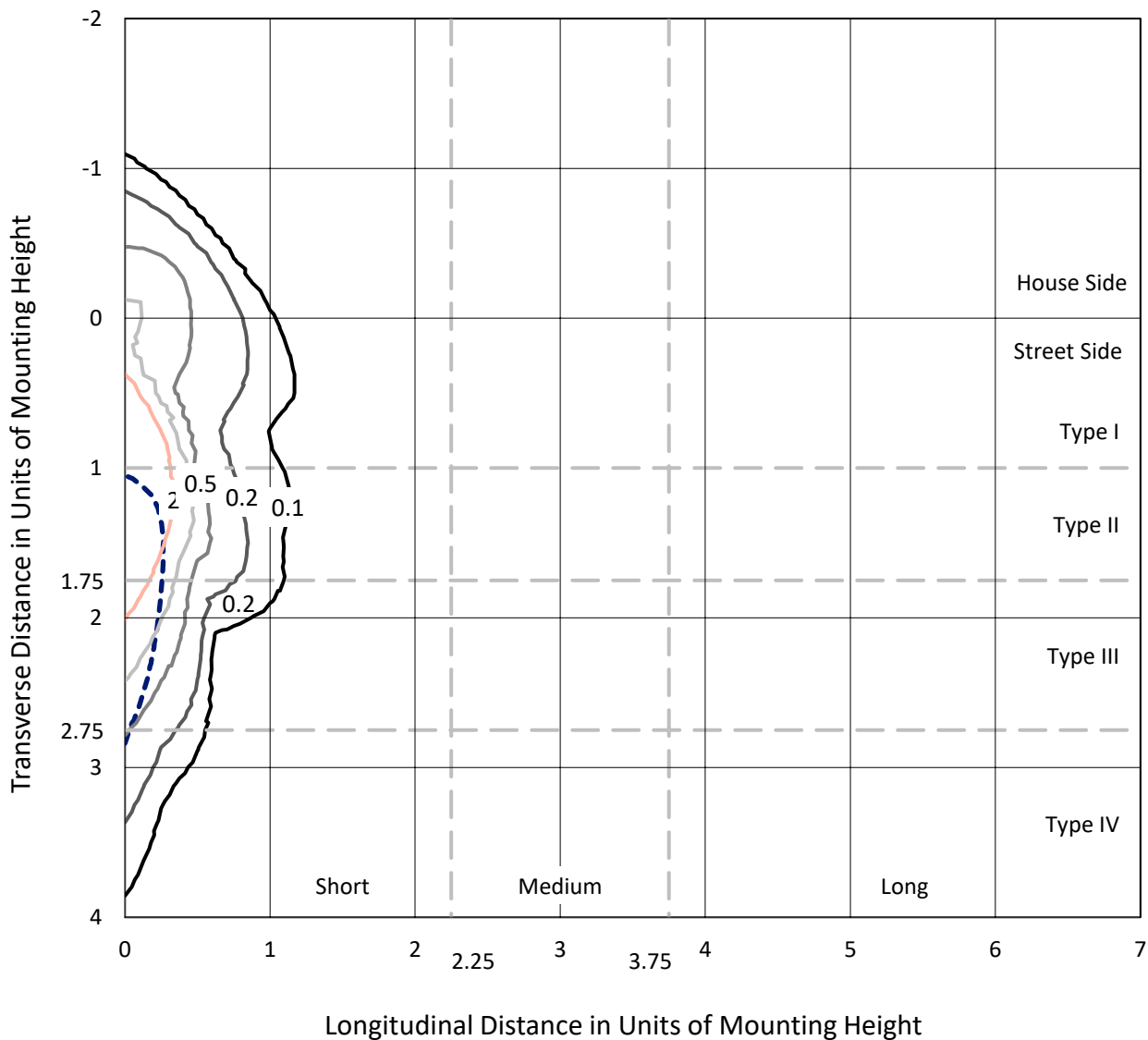
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638536
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

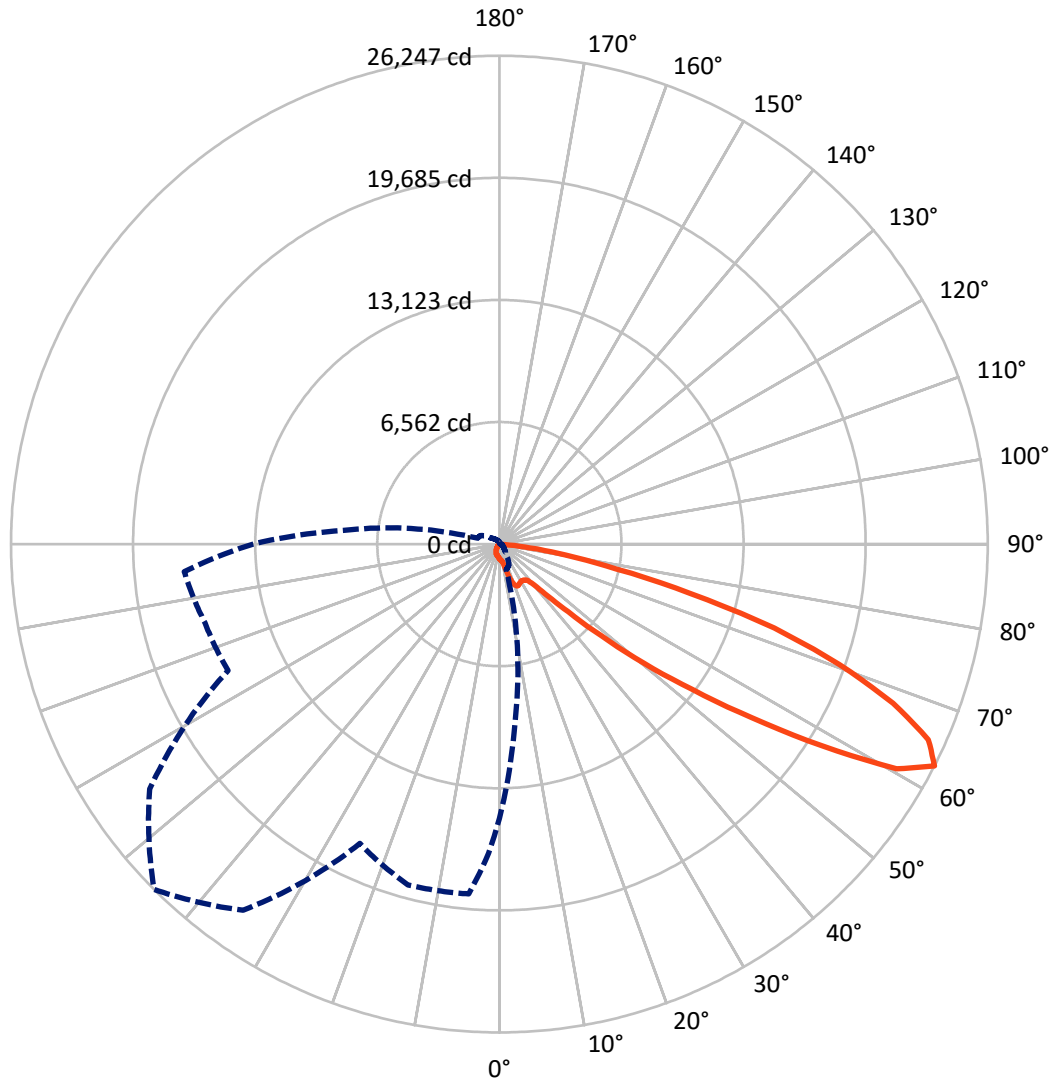
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P638536
CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638536
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

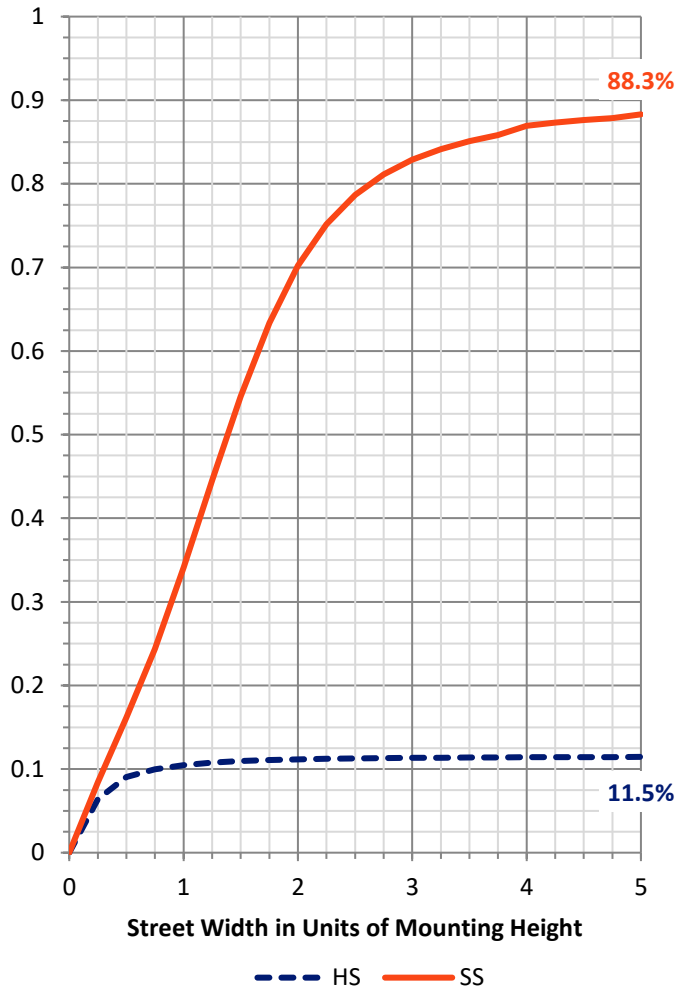
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.1	0.0	1763.1
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	13411.4	0.0	13411.4
	% Fixture	88.4	0.0	88.4
Total	Lumens	15174.5	0.0	15174.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	0.4
10°-20°	232.9	1.5
20°-30°	526.2	3.5
30°-40°	906.5	6.0
40°-50°	1710.0	11.3
50°-60°	3818.0	25.2
60°-70°	5106.6	33.7
70°-80°	2560.8	16.9
80°-90°	245.5	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°	15174.5	100.0
0°-180°	15174.5	100.0

Coefficient of Utilization

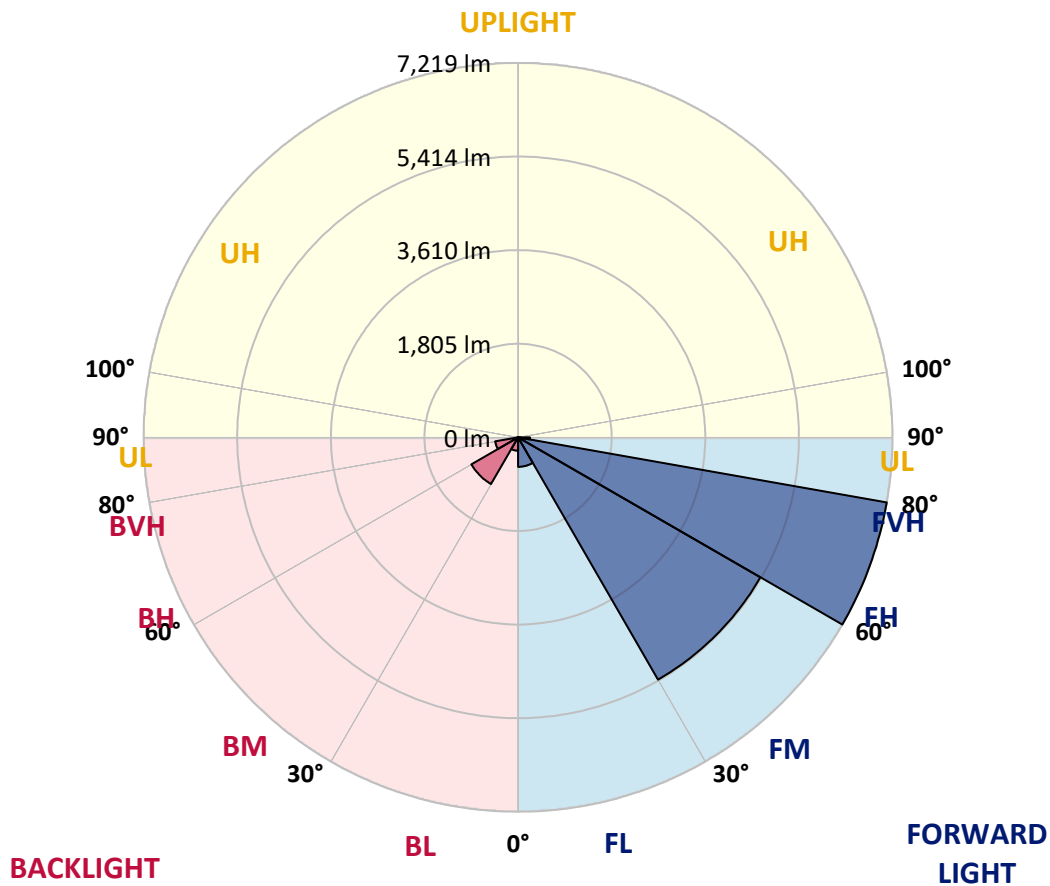


REPORT NUMBER: P638536
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.3	3.7			
FM (30°-60°)	5395.0	35.6			
FH (60°-80°)	7219.0	47.6			G3/7500
FVH (80°-90°)	229.1	1.5			G3/500
BL (0°-30°)	258.8	1.7	B1/500		
BM (30°-60°)	1039.6	6.9	B2/2500		
BH (60°-80°)	448.4	3.0	B1/500		G1/500
BVH (80°-90°)	16.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





REPORT NUMBER: P638536

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	778.0	776.2	772.6	761.8	752.8	747.4	736.7	736.7	734.9	731.3	724.1
5°	752.8	745.6	738.5	718.7	697.1	684.6	670.2	668.4	668.4	664.8	663.0
7.5°	713.3	706.1	697.1	664.8	645.0	632.5	619.9	618.1	612.7	612.7	612.7
10°	691.7	681.0	666.6	630.7	610.9	600.1	591.1	585.7	582.1	576.8	575.0
12.5°	738.5	718.7	688.2	623.5	596.5	582.1	571.4	567.8	557.0	549.8	544.4
15°	884.0	835.5	774.4	639.6	591.1	569.6	555.2	548.0	539.0	526.4	517.5
17.5°	1123.0	1052.9	950.5	691.7	585.7	558.8	540.8	528.2	515.7	501.3	490.5
20°	1453.6	1349.4	1227.2	787.0	585.7	546.2	524.6	508.5	490.5	474.3	461.8
22.5°	1874.0	1769.8	1561.4	948.7	592.9	530.0	504.9	483.3	461.8	447.4	433.0
25°	2344.7	2197.4	2003.4	1144.5	612.7	508.5	481.5	460.0	440.2	422.2	406.1
27.5°	2869.4	2709.5	2450.8	1423.0	655.8	486.9	456.4	436.6	418.6	400.7	379.1
30°	3352.7	3257.5	2993.4	1757.2	725.9	472.5	436.6	418.6	400.7	377.3	357.6
32.5°	3933.1	3764.2	3546.8	2138.1	819.3	458.2	420.4	395.3	380.9	359.3	337.8
35°	4517.0	4373.3	4087.6	2607.1	923.5	443.8	400.7	377.3	364.7	339.6	316.2
37.5°	5118.9	5086.6	4804.5	3126.3	1025.9	427.6	377.3	362.9	350.4	321.6	294.7
40°	5711.8	5652.5	5392.0	3719.2	1088.8	409.7	357.6	348.6	334.2	301.9	271.3
42.5°	6279.6	6234.7	5981.3	4287.0	1079.8	393.5	337.8	327.0	316.2	283.9	246.2
45°	6976.7	6903.1	6583.2	4707.5	988.2	411.5	318.0	300.1	298.3	267.7	221.0
47.5°	8281.2	8038.6	7496.0	5030.9	896.6	458.2	296.5	274.9	287.5	251.5	195.8
50°	10108.4	9822.8	9037.6	5282.4	894.8	519.3	292.9	251.5	278.5	239.0	174.3
52.5°	11944.7	11441.6	10487.6	5417.2	961.3	564.2	325.2	228.2	267.7	226.4	158.1
55°	13703.7	12659.8	11094.9	4971.6	1013.4	612.7	384.5	215.6	247.9	212.0	149.1
57.5°	15380.1	13639.0	11359.0	3933.1	1187.6	632.5	420.4	221.0	219.2	194.0	141.9
60°	15610.1	13592.3	10825.3	2287.2	1309.8	598.3	406.1	246.2	192.3	172.5	129.4
62.5°	14740.4	12688.6	9609.0	1426.6	1216.4	585.7	361.1	280.3	174.3	152.7	113.2
65°	13419.8	11270.9	8011.7	919.9	921.7	650.4	316.2	274.9	163.5	134.8	97.0
67.5°	11355.4	9432.9	6311.9	616.3	521.1	555.2	276.7	188.7	159.9	115.0	75.5
70°	8288.4	6714.4	4109.1	411.5	310.8	443.8	231.8	134.8	150.9	95.2	53.9
72.5°	6058.6	4511.6	2294.4	269.5	176.1	258.7	170.7	97.0	116.8	70.1	37.7
75°	4360.7	3104.8	1309.8	172.5	116.8	141.9	111.4	66.5	75.5	55.7	34.1
77.5°	2098.6	1512.9	594.7	95.2	79.1	71.9	59.3	41.3	46.7	50.3	30.5
80°	79.1	59.3	44.9	46.7	50.3	32.3	27.0	21.6	27.0	34.1	16.2
82.5°	0.0	0.0	0.0	5.4	7.2	9.0	10.8	9.0	10.8	12.6	1.8
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: P638536
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	729.5	725.9	729.5	733.1	736.7	740.3	734.9	738.5	742.1	733.1	736.7
5°	672.0	670.2	681.0	686.4	693.5	697.1	693.5	693.5	691.7	681.0	681.0
7.5°	621.7	623.5	632.5	645.0	654.0	659.4	655.8	654.0	648.6	632.5	632.5
10°	583.9	583.9	598.3	609.1	621.7	627.1	623.5	618.1	612.7	596.5	594.7
12.5°	553.4	553.4	564.2	582.1	596.5	603.7	601.9	594.7	585.7	569.6	567.8
15°	524.6	522.9	539.0	555.2	575.0	583.9	580.3	575.0	558.8	544.4	540.8
17.5°	495.9	494.1	508.5	530.0	551.6	564.2	562.4	549.8	535.4	517.5	513.9
20°	467.2	463.6	481.5	503.1	524.6	537.2	533.6	522.9	504.9	486.9	483.3
22.5°	438.4	436.6	449.2	467.2	486.9	497.7	495.9	486.9	468.9	452.8	452.8
25°	406.1	406.1	415.0	427.6	442.0	447.4	449.2	445.6	434.8	425.8	425.8
27.5°	379.1	373.7	377.3	380.9	388.1	397.1	397.1	400.7	402.5	398.9	400.7
30°	357.6	348.6	343.2	336.0	332.4	336.0	339.6	352.2	364.7	371.9	375.5
32.5°	332.4	321.6	307.2	287.5	274.9	271.3	282.1	305.4	328.8	345.0	354.0
35°	307.2	292.9	265.9	237.2	221.0	215.6	228.2	255.1	289.3	318.0	330.6
37.5°	282.1	262.3	224.6	190.5	172.5	168.9	181.5	210.2	249.7	289.3	305.4
40°	253.3	230.0	185.1	149.1	134.8	131.2	141.9	170.7	212.0	256.9	282.1
42.5°	224.6	195.8	149.1	118.6	104.2	104.2	118.6	140.1	177.9	226.4	256.9
45°	195.8	165.3	122.2	95.2	86.2	88.0	97.0	118.6	149.1	199.4	228.2
47.5°	168.9	141.9	100.6	79.1	71.9	73.7	84.4	102.4	127.6	172.5	203.0
50°	145.5	120.4	88.0	66.5	61.1	64.7	75.5	91.6	113.2	152.7	177.9
52.5°	131.2	107.8	80.9	57.5	53.9	57.5	68.3	82.6	102.4	134.8	159.9
55°	124.0	106.0	80.9	52.1	46.7	50.3	61.1	75.5	91.6	122.2	143.7
57.5°	122.2	109.6	86.2	46.7	39.5	43.1	53.9	68.3	84.4	111.4	129.4
60°	115.0	104.2	84.4	37.7	30.5	35.9	44.9	59.3	77.3	104.2	120.4
62.5°	100.6	91.6	73.7	30.5	23.4	27.0	37.7	52.1	70.1	95.2	113.2
65°	82.6	73.7	57.5	19.8	14.4	18.0	28.7	44.9	61.1	86.2	102.4
67.5°	61.1	52.1	39.5	12.6	7.2	12.6	23.4	37.7	55.7	77.3	93.4
70°	37.7	30.5	21.6	7.2	5.4	10.8	21.6	35.9	50.3	71.9	88.0
72.5°	21.6	14.4	9.0	3.6	5.4	10.8	21.6	35.9	48.5	68.3	82.6
75°	16.2	9.0	3.6	1.8	3.6	9.0	19.8	32.3	46.7	64.7	79.1
77.5°	10.8	5.4	1.8	0.0	1.8	7.2	18.0	30.5	43.1	61.1	75.5
80°	1.8	0.0	0.0	0.0	0.0	5.4	16.2	27.0	39.5	53.9	66.5
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	12.6	23.4	34.1	44.9	53.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	18.0	27.0	34.1	37.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	21.6	25.2
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: P638536
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	734.9	745.6	745.6	752.8	761.8	778.0	787.0	799.5	808.5	817.5	821.1
5°	679.2	681.0	682.8	686.4	697.1	715.1	731.3	751.0	774.4	792.4	803.1
7.5°	632.5	632.5	632.5	637.8	648.6	661.2	677.4	704.3	731.3	752.8	770.8
10°	592.9	598.3	600.1	609.1	621.7	637.8	655.8	679.2	709.7	738.5	770.8
12.5°	567.8	573.2	582.1	591.1	603.7	621.7	641.4	672.0	734.9	794.2	862.4
15°	544.4	551.6	562.4	575.0	589.3	609.1	630.7	693.5	840.9	952.3	1060.1
17.5°	519.3	530.0	544.4	557.0	575.0	596.5	623.5	745.6	1034.9	1220.0	1403.3
20°	486.9	501.3	517.5	537.2	558.8	583.9	623.5	853.5	1315.2	1581.1	1823.7
22.5°	456.4	470.7	490.5	515.7	540.8	566.0	632.5	1017.0	1676.4	2012.3	2319.6
25°	431.2	449.2	468.9	490.5	519.3	548.0	654.0	1246.9	2111.2	2544.2	2761.6
27.5°	407.9	429.4	449.2	467.2	492.3	524.6	702.5	1554.2	2625.0	3065.2	3235.9
30°	384.5	409.7	429.4	447.4	472.5	506.7	776.2	1945.9	3196.4	3624.0	3642.0
32.5°	364.7	388.1	411.5	429.4	452.8	492.3	878.6	2404.0	3782.1	4195.4	4026.5
35°	343.2	370.1	391.7	411.5	436.6	479.7	997.2	2898.1	4373.3	4720.0	4409.2
37.5°	321.6	352.2	379.1	393.5	418.6	467.2	1083.4	3413.8	4977.0	5232.1	4745.2
40°	301.9	336.0	366.5	380.9	393.5	451.0	1096.0	3942.0	5589.7	5737.0	5061.4
42.5°	280.3	318.0	345.0	364.7	375.5	440.2	1020.5	4387.6	6103.5	6240.1	5474.7
45°	256.9	301.9	323.4	337.8	359.3	447.4	923.5	4732.6	6691.1	6926.4	6155.6
47.5°	233.6	283.9	301.9	312.6	341.4	490.5	887.6	4962.6	7659.5	8148.2	7303.7
50°	212.0	267.7	287.5	285.7	337.8	546.2	927.1	5136.9	9114.9	9689.8	8877.7
52.5°	188.7	249.7	273.1	265.9	364.7	589.3	1006.2	5275.2	10234.2	11497.3	10992.4
55°	168.9	230.0	251.5	249.7	415.0	621.7	1067.3	4545.7	10697.8	13177.3	13374.9
57.5°	154.5	208.4	226.4	256.9	447.4	621.7	1234.4	3226.9	10706.8	14413.4	16537.2
60°	141.9	188.7	201.2	282.1	434.8	589.3	1221.8	1976.4	9867.7	14329.0	18218.9
62.5°	131.2	170.7	186.9	289.3	384.5	583.9	1103.2	1225.4	8415.9	13238.4	16998.9
65°	122.2	156.3	179.7	265.9	348.6	625.3	743.8	880.4	6825.8	11995.0	15599.3
67.5°	113.2	143.7	190.5	217.4	316.2	558.8	537.2	625.3	5357.9	10631.3	14314.6
70°	106.0	136.6	201.2	177.9	276.7	436.6	380.9	474.3	4102.0	8870.5	12505.3
72.5°	100.6	127.6	168.9	140.1	224.6	337.8	265.9	345.0	2680.7	6924.6	10194.7
75°	95.2	116.8	124.0	113.2	167.1	221.0	201.2	231.8	1597.3	5061.4	7735.0
77.5°	93.4	109.6	100.6	91.6	113.2	131.2	152.7	156.3	779.8	2531.6	4053.4
80°	82.6	98.8	86.2	75.5	77.3	86.2	113.2	104.2	177.9	643.2	1081.6
82.5°	64.7	77.3	71.9	62.9	62.9	62.9	75.5	70.1	57.5	289.3	488.7
85°	44.9	53.9	53.9	50.3	48.5	48.5	46.7	44.9	16.2	18.0	27.0
87.5°	30.5	37.7	39.5	37.7	32.3	28.7	25.2	21.6	7.2	0.0	3.6
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: P638536

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	833.7	839.1	839.1	831.9	826.5	812.1	797.8	783.4	779.8	778.0
5°	833.7	855.2	866.0	864.2	851.7	828.3	797.8	765.4	756.4	752.8
7.5°	821.1	862.4	894.8	900.2	876.8	835.5	779.8	731.3	718.7	713.3
10°	849.9	930.7	995.4	1004.4	977.4	896.6	806.7	724.1	704.3	691.7
12.5°	1004.4	1137.3	1216.4	1254.1	1202.0	1099.6	950.5	803.1	758.2	738.5
15°	1317.0	1505.7	1656.6	1656.6	1608.1	1426.6	1238.0	999.0	937.9	884.0
17.5°	1717.7	1954.9	2087.8	2073.4	1999.8	1872.2	1645.8	1302.6	1178.7	1123.0
20°	2174.1	2316.0	2346.5	2337.6	2305.2	2231.5	2075.2	1706.9	1539.8	1453.6
22.5°	2569.3	2531.6	2486.7	2450.8	2441.8	2463.3	2441.8	2157.9	2026.7	1874.0
25°	2837.0	2623.2	2488.5	2423.8	2454.3	2578.3	2713.1	2607.1	2502.9	2344.7
27.5°	2982.6	2612.5	2418.4	2351.9	2404.0	2580.1	2873.0	3052.7	2944.9	2869.4
30°	3061.6	2603.5	2373.5	2308.8	2387.9	2608.9	2984.4	3469.5	3473.1	3352.7
32.5°	3174.8	2661.0	2382.5	2323.2	2429.2	2695.1	3124.5	3893.5	3997.7	3933.1
35°	3302.4	2749.0	2423.8	2369.9	2501.1	2810.1	3280.8	4321.2	4538.6	4517.0
37.5°	3422.8	2847.8	2520.8	2468.7	2610.7	2908.9	3431.8	4741.6	5043.4	5118.9
40°	3548.6	2986.2	2819.1	2869.4	2948.4	3065.2	3566.5	5106.3	5598.6	5711.8
42.5°	3845.0	3465.9	3721.0	3816.3	3827.1	3586.3	3861.2	5573.5	6144.8	6279.6
45°	4506.2	4319.4	5050.6	5185.4	5115.3	4385.8	4570.9	6247.3	6908.5	6976.7
47.5°	5341.7	5427.9	6870.7	7336.1	6915.6	5329.1	5431.5	7664.9	8306.3	8281.2
50°	6315.5	6723.4	8937.0	10034.8	9028.6	6554.5	6423.3	9407.7	10185.7	10108.4
52.5°	7467.2	8229.1	11420.1	12979.6	12027.4	7932.6	7878.7	11716.5	12190.9	11944.7
55°	8917.2	9682.6	14276.9	16456.3	15101.6	9614.3	9799.4	14393.7	14485.3	13703.7
57.5°	11080.5	11578.2	17644.0	20443.3	18310.6	11899.8	13242.0	17956.6	16860.6	15380.1
60°	15008.2	14016.4	20897.9	24521.9	21724.4	15114.2	17782.3	20067.8	17651.2	15610.1
62.5°	16375.5	16086.2	22935.4	26246.8	24020.6	17753.6	18962.8	18871.1	16627.0	14740.4
65°	14303.8	15570.5	22570.6	25335.8	23725.9	17318.8	17016.9	17550.5	15473.5	13419.8
67.5°	13213.2	14359.5	21188.9	22822.2	22092.7	15843.6	15168.1	15022.5	12990.4	11355.4
70°	12113.6	13249.1	19185.6	19388.6	19049.0	13439.6	12552.0	11576.4	9709.6	8288.4
72.5°	10791.2	11416.5	16406.0	15443.0	15058.5	10555.8	10369.0	8717.8	7278.6	6058.6
75°	9411.3	9229.8	12791.0	10599.0	10886.4	8212.9	8757.3	6401.8	5332.7	4360.7
77.5°	6845.6	6710.8	8566.8	6437.7	7129.5	5379.4	4833.2	2555.0	2432.8	2098.6
80°	3819.9	4605.0	4626.6	3607.9	4500.8	3507.2	1209.2	84.4	53.9	79.1
82.5°	1775.2	1980.0	2508.2	1672.8	2567.5	1737.4	249.7	0.0	0.0	0.0
85°	575.0	840.9	704.3	246.2	621.7	587.5	41.3	0.0	0.0	0.0
87.5°	34.1	70.1	18.0	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

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