

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: P638206

Luminaire Tested: GWS-SA4E-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638206
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-SA4E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18275 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

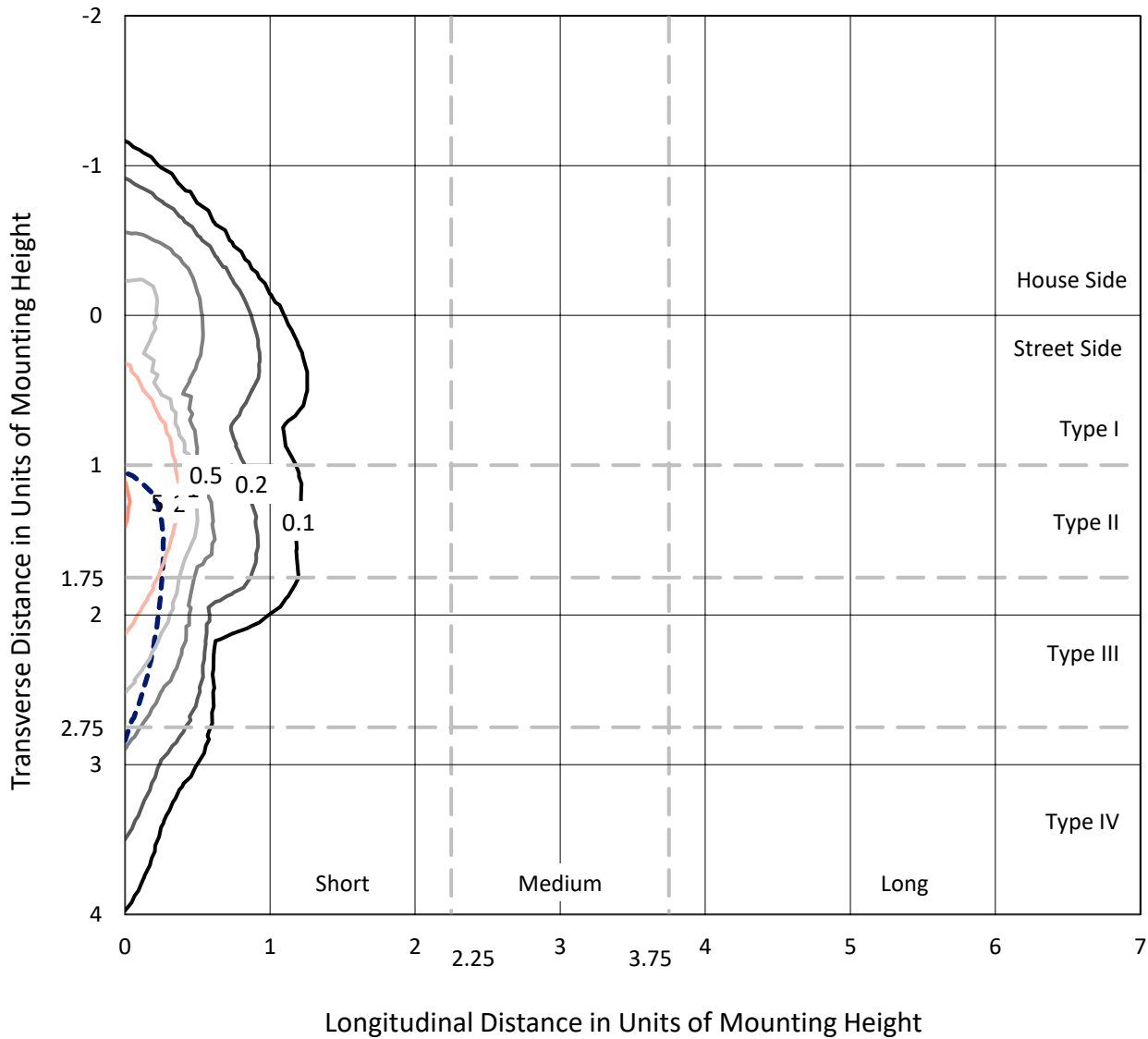
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638206
 CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

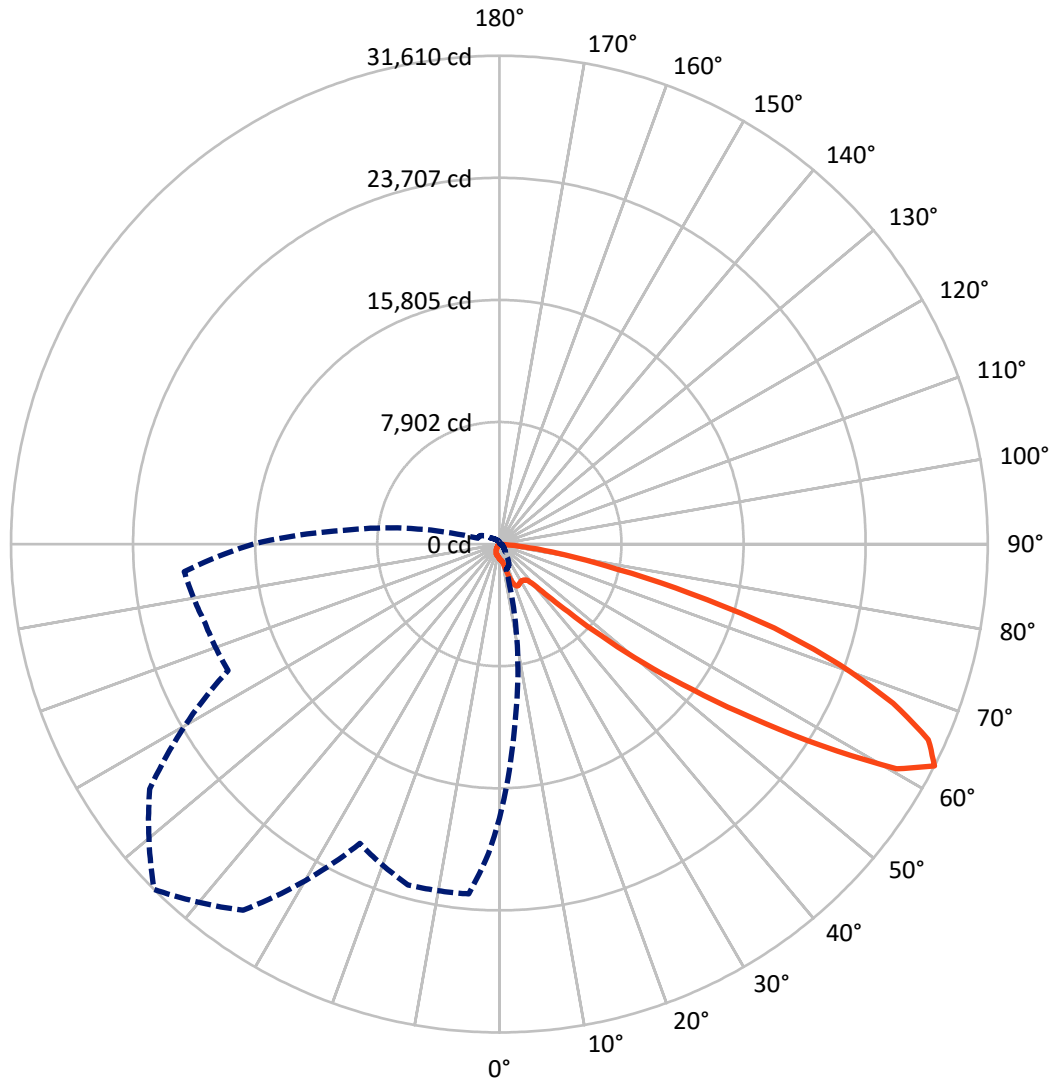
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

REPORT NUMBER: P638206
CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638206
 CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

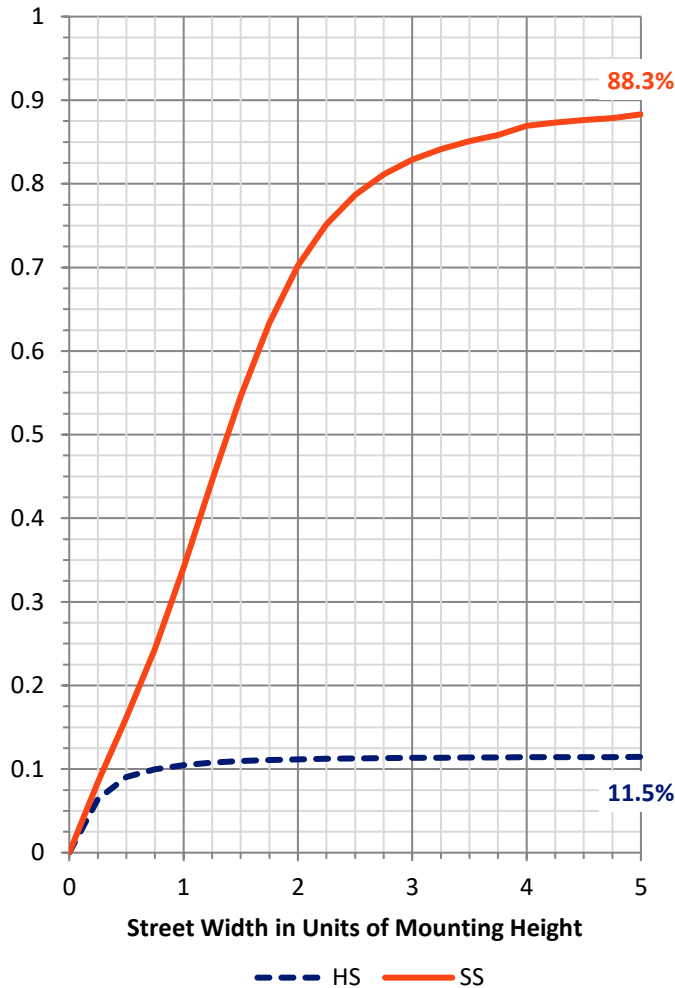
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2123.3	0.0	2123.3
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	16151.7	0.0	16151.7
	% Fixture	88.4	0.0	88.4
Total	Lumens	18275.0	0.0	18275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	0.4
10°-20°	280.5	1.5
20°-30°	633.7	3.5
30°-40°	1091.7	6.0
40°-50°	2059.4	11.3
50°-60°	4598.1	25.2
60°-70°	6150.0	33.7
70°-80°	3084.0	16.9
80°-90°	295.6	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°	18275.0	100.0
0°-180°	18275.0	100.0

Coefficient of Utilization



REPORT NUMBER: P638206

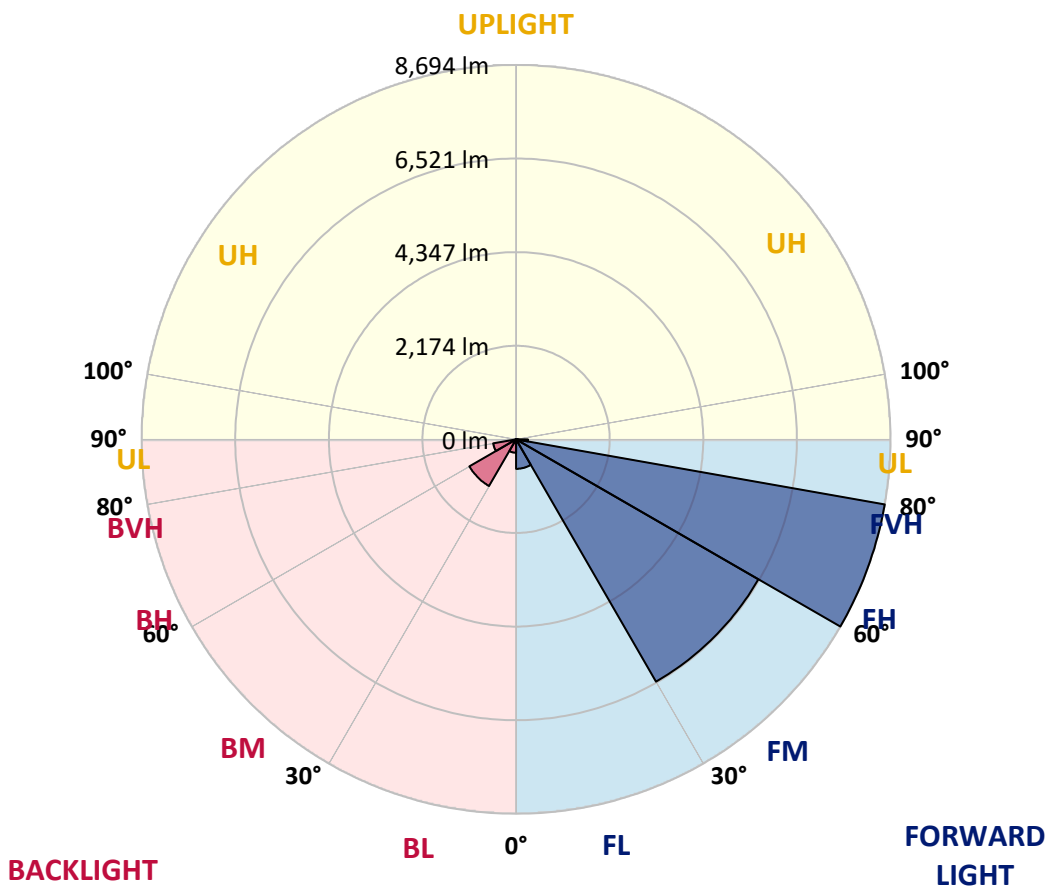
CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.4	3.7			
FM (30°-60°)	6497.3	35.6			
FH (60°-80°)	8694.0	47.6			G4/12000
FVH (80°-90°)	275.9	1.5			G3/500
BL (0°-30°)	311.7	1.7	B1/500		
BM (30°-60°)	1252.0	6.9	B2/2500		
BH (60°-80°)	540.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	19.7	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-G4

Type III Short





REPORT NUMBER: P638206

CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	936.9	934.8	930.5	917.5	906.7	900.2	887.2	887.2	885.0	880.7	872.0
5°	906.7	898.0	889.3	865.5	839.6	824.4	807.1	805.0	805.0	800.6	798.5
7.5°	859.0	850.4	839.6	800.6	776.8	761.7	746.5	744.4	737.9	737.9	737.9
10°	833.1	820.1	802.8	759.5	735.7	722.7	711.9	705.4	701.1	694.6	692.4
12.5°	889.3	865.5	828.8	750.9	718.4	701.1	688.1	683.8	670.8	662.1	655.6
15°	1064.6	1006.2	932.6	770.3	711.9	685.9	668.6	660.0	649.2	634.0	623.2
17.5°	1352.4	1268.0	1144.7	833.1	705.4	673.0	651.3	636.2	621.0	603.7	590.7
20°	1750.6	1625.1	1477.9	947.8	705.4	657.8	631.8	612.4	590.7	571.3	556.1
22.5°	2256.9	2131.4	1880.4	1142.5	714.1	638.3	608.0	582.1	556.1	538.8	521.5
25°	2823.8	2646.4	2412.7	1378.4	737.9	612.4	579.9	553.9	530.1	508.5	489.0
27.5°	3455.7	3263.1	2951.5	1713.8	789.8	586.4	549.6	525.8	504.2	482.5	456.6
30°	4037.8	3923.1	3605.0	2116.2	874.2	569.1	525.8	504.2	482.5	454.4	430.6
32.5°	4736.7	4533.3	4271.4	2575.0	986.7	551.8	506.3	476.0	458.7	432.8	406.8
35°	5439.9	5266.8	4922.8	3139.8	1112.2	534.5	482.5	454.4	439.3	409.0	380.8
37.5°	6164.8	6125.9	5786.1	3765.1	1235.6	515.0	454.4	437.1	422.0	387.3	354.9
40°	6878.9	6807.5	6493.7	4479.2	1311.3	493.4	430.6	419.8	402.5	363.5	326.7
42.5°	7562.7	7508.6	7203.5	5163.0	1300.5	473.9	406.8	393.8	380.8	341.9	296.4
45°	8402.2	8313.5	7928.4	5669.3	1190.1	495.5	383.0	361.4	359.2	322.4	266.2
47.5°	9973.2	9681.1	9027.6	6058.8	1079.8	551.8	357.0	331.1	346.2	302.9	235.9
50°	12173.8	11829.8	10884.2	6361.7	1077.6	625.4	352.7	302.9	335.4	287.8	209.9
52.5°	14385.3	13779.4	12630.4	6524.0	1157.7	679.4	391.7	274.8	322.4	272.6	190.4
55°	16503.7	15246.5	13361.8	5987.4	1220.4	737.9	463.1	259.7	298.6	255.3	179.6
57.5°	18522.6	16425.8	13679.9	4736.7	1430.3	761.7	506.3	266.2	264.0	233.7	170.9
60°	18799.6	16369.6	13037.2	2754.6	1577.4	720.6	489.0	296.4	231.5	207.7	155.8
62.5°	17752.3	15281.1	11572.3	1718.1	1464.9	705.4	434.9	337.6	209.9	183.9	136.3
65°	16161.8	13573.9	9648.6	1107.9	1110.1	783.3	380.8	331.1	196.9	162.3	116.8
67.5°	13675.6	11360.2	7601.6	742.2	627.5	668.6	333.2	227.2	192.6	138.5	90.9
70°	9981.9	8086.3	4948.7	495.5	374.3	534.5	279.1	162.3	181.8	114.7	64.9
72.5°	7296.5	5433.4	2763.2	324.6	212.1	311.6	205.6	116.8	140.7	84.4	45.4
75°	5251.7	3739.1	1577.4	207.7	140.7	170.9	134.2	80.1	90.9	67.1	41.1
77.5°	2527.4	1822.0	716.2	114.7	95.2	86.6	71.4	49.8	56.3	60.6	36.8
80°	95.2	71.4	54.1	56.3	60.6	38.9	32.5	26.0	32.5	41.1	19.5
82.5°	0.0	0.0	0.0	6.5	8.7	10.8	13.0	10.8	13.0	15.1	2.2
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: P638206
 CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	878.5	874.2	878.5	882.9	887.2	891.5	885.0	889.3	893.7	882.9	887.2
5°	809.3	807.1	820.1	826.6	835.2	839.6	835.2	835.2	833.1	820.1	820.1
7.5°	748.7	750.9	761.7	776.8	787.6	794.1	789.8	787.6	781.2	761.7	761.7
10°	703.3	703.3	720.6	733.5	748.7	755.2	750.9	744.4	737.9	718.4	716.2
12.5°	666.5	666.5	679.4	701.1	718.4	727.1	724.9	716.2	705.4	685.9	683.8
15°	631.8	629.7	649.2	668.6	692.4	703.3	698.9	692.4	673.0	655.6	651.3
17.5°	597.2	595.1	612.4	638.3	664.3	679.4	677.3	662.1	644.8	623.2	618.9
20°	562.6	558.3	579.9	605.9	631.8	647.0	642.7	629.7	608.0	586.4	582.1
22.5°	528.0	525.8	541.0	562.6	586.4	599.4	597.2	586.4	564.8	545.3	545.3
25°	489.0	489.0	499.9	515.0	532.3	538.8	541.0	536.6	523.7	512.8	512.8
27.5°	456.6	450.1	454.4	458.7	467.4	478.2	478.2	482.5	484.7	480.4	482.5
30°	430.6	419.8	413.3	404.6	400.3	404.6	409.0	424.1	439.3	447.9	452.2
32.5°	400.3	387.3	370.0	346.2	331.1	326.7	339.7	367.9	396.0	415.5	426.3
35°	370.0	352.7	320.3	285.6	266.2	259.7	274.8	307.3	348.4	383.0	398.1
37.5°	339.7	315.9	270.5	229.4	207.7	203.4	218.5	253.2	300.8	348.4	367.9
40°	305.1	277.0	222.9	179.6	162.3	158.0	170.9	205.6	255.3	309.4	339.7
42.5°	270.5	235.9	179.6	142.8	125.5	125.5	142.8	168.8	214.2	272.6	309.4
45°	235.9	199.1	147.1	114.7	103.9	106.0	116.8	142.8	179.6	240.2	274.8
47.5°	203.4	170.9	121.2	95.2	86.6	88.7	101.7	123.3	153.6	207.7	244.5
50°	175.3	145.0	106.0	80.1	73.6	77.9	90.9	110.4	136.3	183.9	214.2
52.5°	158.0	129.8	97.4	69.2	64.9	69.2	82.2	99.5	123.3	162.3	192.6
55°	149.3	127.7	97.4	62.8	56.3	60.6	73.6	90.9	110.4	147.1	173.1
57.5°	147.1	132.0	103.9	56.3	47.6	51.9	64.9	82.2	101.7	134.2	155.8
60°	138.5	125.5	101.7	45.4	36.8	43.3	54.1	71.4	93.0	125.5	145.0
62.5°	121.2	110.4	88.7	36.8	28.1	32.5	45.4	62.8	84.4	114.7	136.3
65°	99.5	88.7	69.2	23.8	17.3	21.6	34.6	54.1	73.6	103.9	123.3
67.5°	73.6	62.8	47.6	15.1	8.7	15.1	28.1	45.4	67.1	93.0	112.5
70°	45.4	36.8	26.0	8.7	6.5	13.0	26.0	43.3	60.6	86.6	106.0
72.5°	26.0	17.3	10.8	4.3	6.5	13.0	26.0	43.3	58.4	82.2	99.5
75°	19.5	10.8	4.3	2.2	4.3	10.8	23.8	38.9	56.3	77.9	95.2
77.5°	13.0	6.5	2.2	0.0	2.2	8.7	21.6	36.8	51.9	73.6	90.9
80°	2.2	0.0	0.0	0.0	0.0	6.5	19.5	32.5	47.6	64.9	80.1
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.1	28.1	41.1	54.1	64.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.7	21.6	32.5	41.1	45.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	21.6	26.0	30.3
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: P638206

CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	885.0	898.0	898.0	906.7	917.5	936.9	947.8	962.9	973.7	984.6	988.9
5°	817.9	820.1	822.3	826.6	839.6	861.2	880.7	904.5	932.6	954.3	967.2
7.5°	761.7	761.7	761.7	768.2	781.2	796.3	815.8	848.2	880.7	906.7	928.3
10°	714.1	720.6	722.7	733.5	748.7	768.2	789.8	817.9	854.7	889.3	928.3
12.5°	683.8	690.3	701.1	711.9	727.1	748.7	772.5	809.3	885.0	956.4	1038.6
15°	655.6	664.3	677.3	692.4	709.7	733.5	759.5	835.2	1012.7	1146.8	1276.7
17.5°	625.4	638.3	655.6	670.8	692.4	718.4	750.9	898.0	1246.4	1469.3	1690.0
20°	586.4	603.7	623.2	647.0	673.0	703.3	750.9	1027.8	1583.9	1904.2	2196.3
22.5°	549.6	566.9	590.7	621.0	651.3	681.6	761.7	1224.7	2018.9	2423.5	2793.5
25°	519.3	541.0	564.8	590.7	625.4	660.0	787.6	1501.7	2542.5	3064.0	3325.8
27.5°	491.2	517.2	541.0	562.6	592.9	631.8	846.1	1871.7	3161.4	3691.5	3897.1
30°	463.1	493.4	517.2	538.8	569.1	610.2	934.8	2343.5	3849.5	4364.5	4386.1
32.5°	439.3	467.4	495.5	517.2	545.3	592.9	1058.1	2895.2	4554.9	5052.6	4849.2
35°	413.3	445.8	471.7	495.5	525.8	577.7	1200.9	3490.3	5266.8	5684.4	5310.1
37.5°	387.3	424.1	456.6	473.9	504.2	562.6	1304.8	4111.3	5993.9	6301.1	5714.7
40°	363.5	404.6	441.4	458.7	473.9	543.1	1320.0	4747.5	6731.7	6909.2	6095.6
42.5°	337.6	383.0	415.5	439.3	452.2	530.1	1229.1	5284.1	7350.6	7515.1	6593.3
45°	309.4	363.5	389.5	406.8	432.8	538.8	1112.2	5699.6	8058.2	8341.7	7413.4
47.5°	281.3	341.9	363.5	376.5	411.1	590.7	1068.9	5976.6	9224.5	9813.1	8796.1
50°	255.3	322.4	346.2	344.1	406.8	657.8	1116.5	6186.5	10977.2	11669.7	10691.6
52.5°	227.2	300.8	328.9	320.3	439.3	709.7	1211.8	6353.1	12325.3	13846.5	13238.5
55°	203.4	277.0	302.9	300.8	499.9	748.7	1285.3	5474.5	12883.6	15869.7	16107.7
57.5°	186.1	251.0	272.6	309.4	538.8	748.7	1486.6	3886.3	12894.4	17358.4	19916.1
60°	170.9	227.2	242.4	339.7	523.7	709.7	1471.4	2380.2	11883.9	17256.7	21941.5
62.5°	158.0	205.6	225.0	348.4	463.1	703.3	1328.6	1475.7	10135.5	15943.3	20472.2
65°	147.1	188.3	216.4	320.3	419.8	753.0	895.8	1060.3	8220.5	14445.9	18786.6
67.5°	136.3	173.1	229.4	261.8	380.8	673.0	647.0	753.0	6452.6	12803.5	17239.4
70°	127.7	164.5	242.4	214.2	333.2	525.8	458.7	571.3	4940.1	10682.9	15060.4
72.5°	121.2	153.6	203.4	168.8	270.5	406.8	320.3	415.5	3228.5	8339.5	12277.7
75°	114.7	140.7	149.3	136.3	201.2	266.2	242.4	279.1	1923.7	6095.6	9315.4
77.5°	112.5	132.0	121.2	110.4	136.3	158.0	183.9	188.3	939.1	3048.9	4881.7
80°	99.5	119.0	103.9	90.9	93.0	103.9	136.3	125.5	214.2	774.7	1302.6
82.5°	77.9	93.0	86.6	75.7	75.7	75.7	90.9	84.4	69.2	348.4	588.6
85°	54.1	64.9	64.9	60.6	58.4	58.4	56.3	54.1	19.5	21.6	32.5
87.5°	36.8	45.4	47.6	45.4	38.9	34.6	30.3	26.0	8.7	0.0	4.3
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: P638206

CATALOG NUMBER: GWS-SA4E-735-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	1004.0	1010.5	1010.5	1001.9	995.4	978.1	960.8	943.4	939.1	936.9
5°	1004.0	1030.0	1043.0	1040.8	1025.7	997.5	960.8	921.8	911.0	906.7
7.5°	988.9	1038.6	1077.6	1084.1	1056.0	1006.2	939.1	880.7	865.5	859.0
10°	1023.5	1120.9	1198.8	1209.6	1177.1	1079.8	971.6	872.0	848.2	833.1
12.5°	1209.6	1369.7	1464.9	1510.4	1447.6	1324.3	1144.7	967.2	913.1	889.3
15°	1586.1	1813.3	1995.1	1995.1	1936.6	1718.1	1490.9	1203.1	1129.5	1064.6
17.5°	2068.6	2354.3	2514.4	2497.1	2408.4	2254.7	1982.1	1568.8	1419.5	1352.4
20°	2618.3	2789.2	2826.0	2815.2	2776.2	2687.5	2499.3	2055.7	1854.4	1750.6
22.5°	3094.3	3048.9	2994.8	2951.5	2940.7	2966.6	2940.7	2598.8	2440.8	2256.9
25°	3416.7	3159.2	2996.9	2919.0	2955.8	3105.1	3267.4	3139.8	3014.2	2823.8
27.5°	3592.0	3146.2	2912.5	2832.5	2895.2	3107.3	3460.0	3676.4	3546.6	3455.7
30°	3687.2	3135.4	2858.5	2780.6	2875.8	3141.9	3594.2	4178.4	4182.7	4037.8
32.5°	3823.5	3204.7	2869.3	2797.9	2925.5	3245.8	3762.9	4689.1	4814.6	4736.7
35°	3977.2	3310.7	2919.0	2854.1	3012.1	3384.3	3951.2	5204.1	5465.9	5439.9
37.5°	4122.1	3429.7	3035.9	2973.1	3144.1	3503.3	4133.0	5710.4	6073.9	6164.8
40°	4273.6	3596.3	3395.1	3455.7	3550.9	3691.5	4295.2	6149.7	6742.6	6878.9
42.5°	4630.6	4174.1	4481.3	4596.0	4609.0	4319.1	4650.1	6712.3	7400.4	7562.7
45°	5426.9	5201.9	6082.6	6244.9	6160.5	5282.0	5504.8	7523.7	8320.0	8402.2
47.5°	6433.1	6537.0	8274.6	8835.0	8328.7	6418.0	6541.3	9231.0	10003.5	9973.2
50°	7605.9	8097.1	10763.0	12085.1	10873.4	7893.7	7735.8	11329.9	12266.9	12173.8
52.5°	8993.0	9910.4	13753.5	15631.7	14484.8	9553.4	9488.5	14110.5	14681.7	14385.3
55°	10739.2	11661.0	17194.0	19818.7	18187.2	11578.8	11801.7	17334.6	17445.0	16503.7
57.5°	13344.5	13943.9	21249.0	24620.3	22051.8	14331.2	15947.6	21625.6	20305.6	18522.6
60°	18074.7	16880.2	25167.8	29532.3	26163.2	18202.3	21415.7	24168.1	21257.7	18799.6
62.5°	19721.4	19373.0	27621.6	31609.6	28928.6	21381.0	22837.3	22727.0	20024.3	17752.3
65°	17226.4	18752.0	27182.3	30512.5	28573.7	20857.4	20493.9	21136.5	18635.1	16161.8
67.5°	15913.0	17293.5	25518.3	27485.3	26606.7	19080.9	18267.2	18092.0	15644.7	13675.6
70°	14588.7	15956.3	23105.6	23350.1	22941.2	16185.6	15116.7	13941.7	11693.5	9981.9
72.5°	12996.1	13749.1	19758.1	18598.3	18135.3	12712.6	12487.6	10499.0	8765.8	7296.5
75°	11334.3	11115.7	15404.5	12764.6	13110.8	9891.0	10546.6	7709.8	6422.3	5251.7
77.5°	8244.3	8082.0	10317.3	7753.1	8586.2	6478.6	5820.8	3077.0	2929.9	2527.4
80°	4600.4	5546.0	5571.9	4345.0	5420.5	4223.8	1456.3	101.7	64.9	95.2
82.5°	2137.9	2384.6	3020.7	2014.5	3092.1	2092.4	300.8	0.0	0.0	0.0
85°	692.4	1012.7	848.2	296.4	748.7	707.6	49.8	0.0	0.0	0.0
87.5°	41.1	84.4	21.6	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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