

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: P637220

Luminaire Tested: GWS-SA4C-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637220
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-SA4C-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11881.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

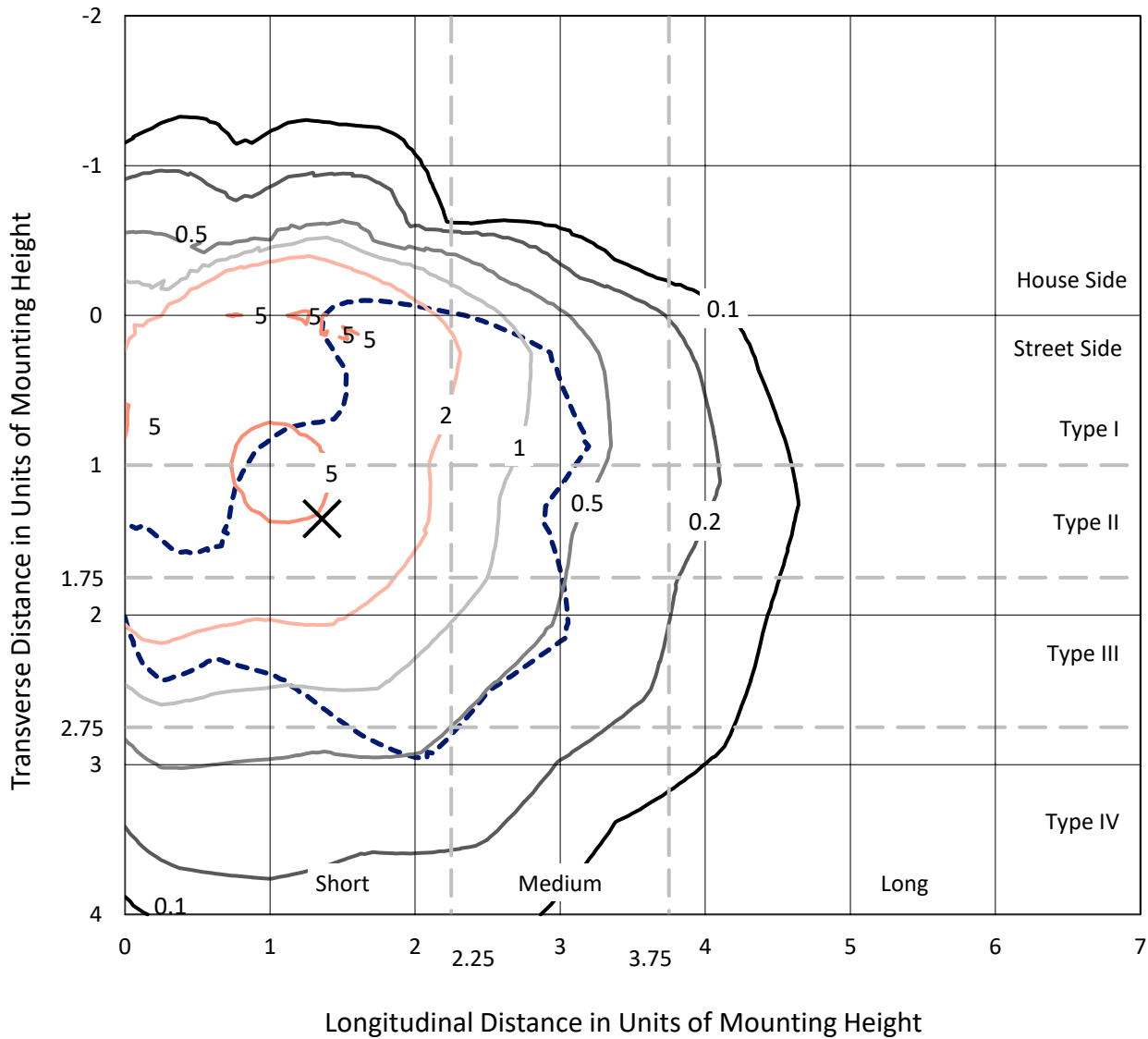
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637220
 CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

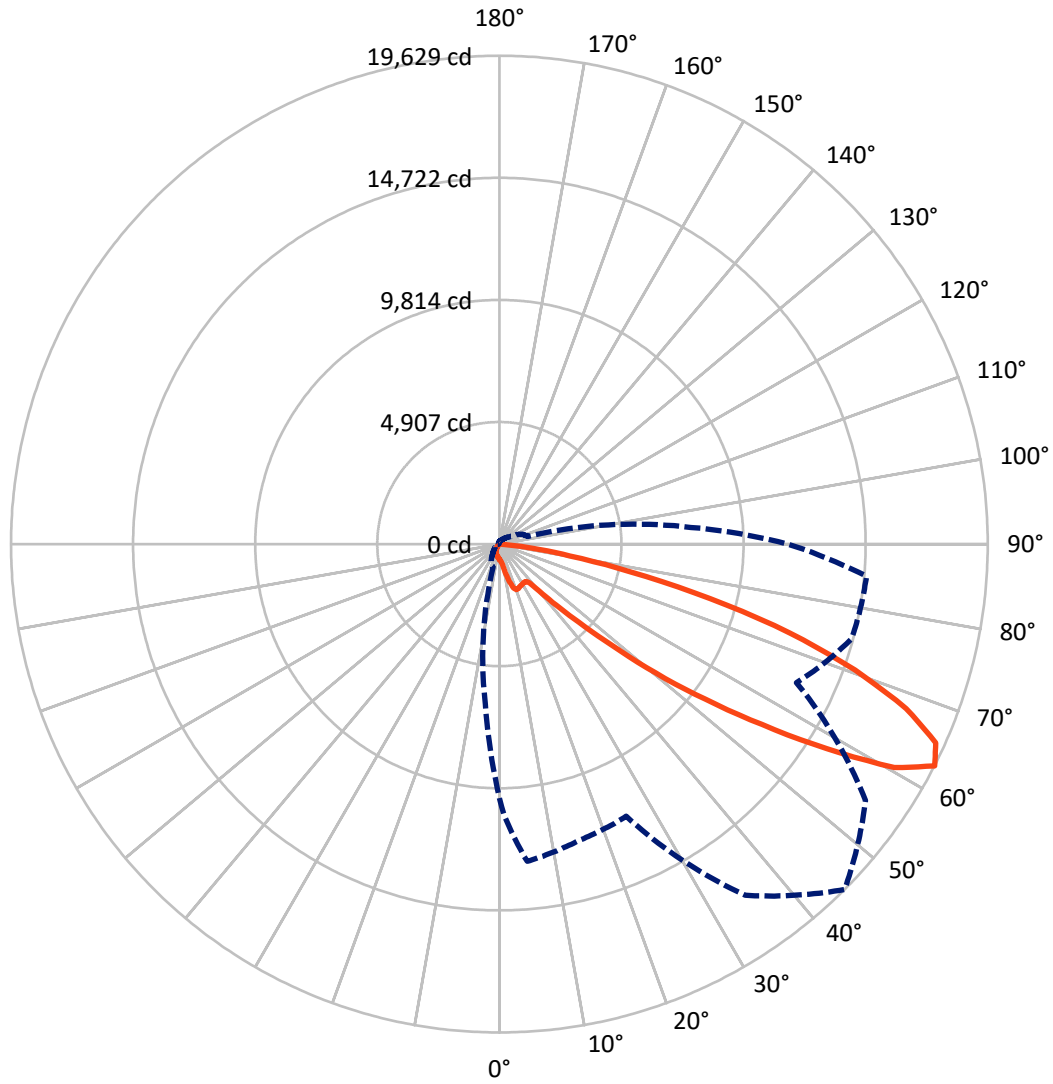
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P637220
CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637220
 CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.2	0.0	1466.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	10415.5	0.0	10415.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	11881.7	0.0	11881.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	0.5
10°-20°	207.2	1.7
20°-30°	450.3	3.8
30°-40°	739.1	6.2
40°-50°	1358.8	11.4
50°-60°	2918.0	24.6
60°-70°	3919.3	33.0
70°-80°	2040.8	17.2
80°-90°	193.5	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°	11881.7	100.0
0°-180°	11881.7	100.0

Coefficient of Utilization



REPORT NUMBER: P637220

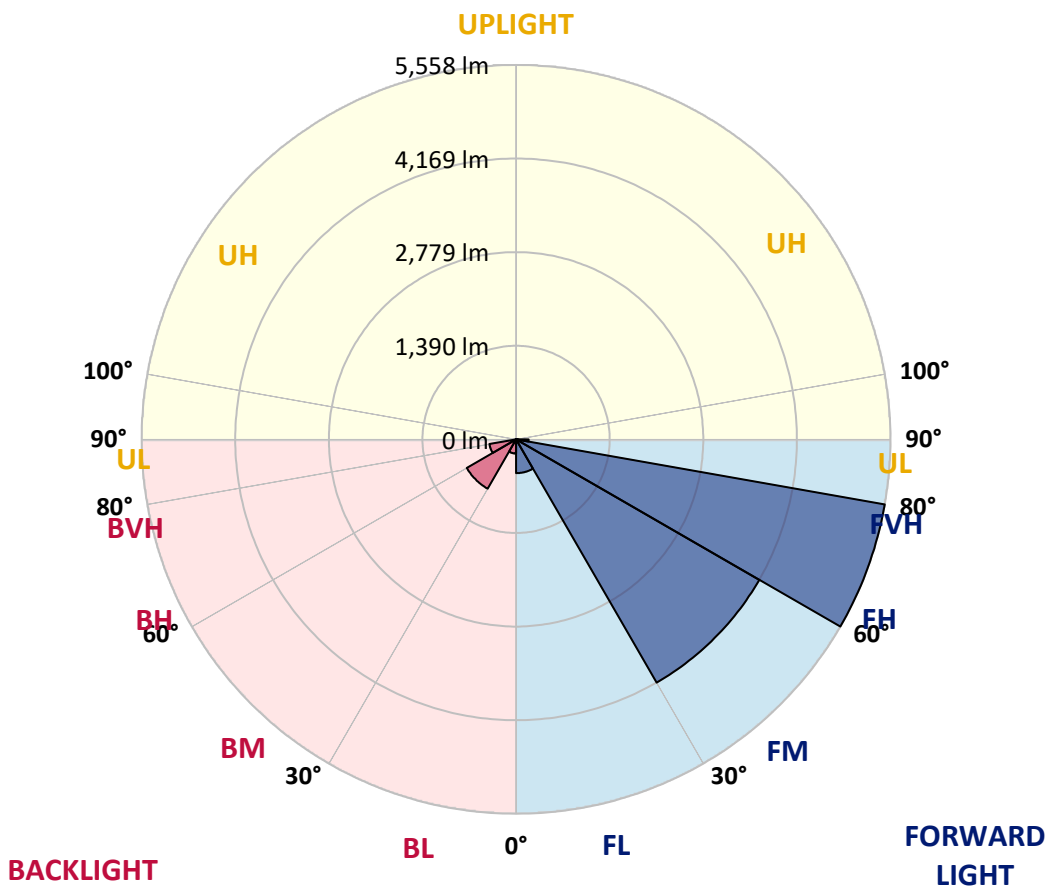
CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.9	4.2			
FM (30°-60°)	4170.3	35.1			
FH (60°-80°)	5558.4	46.8			G3/7500
FVH (80°-90°)	184.9	1.6			G2/225
BL (0°-30°)	210.3	1.8	B1/500		
BM (30°-60°)	845.5	7.1	B1/1000		
BH (60°-80°)	401.7	3.4	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			G0/10
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: P637220

CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6
2.5°	630.0	632.7	635.4	645.0	651.9	657.4	658.8	654.7	645.0	635.4	621.7
5°	610.7	613.5	623.1	649.2	675.2	695.8	702.7	698.6	675.2	645.0	613.5
7.5°	609.4	614.9	638.2	693.1	749.4	791.9	802.9	793.3	749.4	689.0	624.5
10°	658.8	668.4	702.7	801.5	904.4	979.9	1010.1	968.9	899.0	789.2	683.5
12.5°	787.8	804.3	870.1	1014.2	1173.4	1273.6	1314.8	1264.0	1154.2	995.0	827.6
15°	990.9	1015.6	1114.4	1329.9	1517.9	1607.1	1620.9	1592.0	1464.4	1288.7	1063.6
17.5°	1277.7	1313.4	1467.1	1686.7	1822.6	1854.2	1850.1	1819.9	1726.5	1605.8	1393.0
20°	1620.9	1663.4	1814.4	1995.5	2009.3	1972.2	1951.6	1933.8	1902.2	1881.6	1715.6
22.5°	1966.7	2018.9	2176.7	2222.0	2098.5	1991.4	1940.6	1954.4	2001.0	2102.6	2035.3
25°	2311.2	2360.6	2508.8	2386.7	2139.6	1961.2	1896.7	1929.7	2040.8	2260.4	2346.9
27.5°	2713.3	2750.4	2838.2	2499.2	2146.5	1936.5	1873.4	1924.2	2060.0	2359.2	2688.6
30°	3131.9	3153.9	3111.3	2529.4	2123.2	1899.5	1850.1	1924.2	2093.0	2425.1	2945.3
32.5°	3439.3	3443.5	3304.8	2532.2	2110.8	1869.3	1828.1	1915.9	2124.5	2480.0	3193.7
35°	3756.4	3735.8	3490.1	2573.3	2143.8	1880.2	1844.6	1939.3	2174.0	2544.5	3411.9
37.5°	4077.5	4040.5	3697.4	2640.6	2228.8	1999.7	1977.7	2058.7	2253.6	2633.7	3652.1
40°	4406.9	4356.1	3912.8	2742.1	2418.2	2405.9	2481.4	2471.8	2471.8	2747.6	3899.1
42.5°	4809.0	4750.0	4231.2	3029.0	2860.2	3136.0	3341.9	3214.3	2978.2	3009.8	4220.3
45°	5340.2	5289.4	4783.0	3578.0	3553.3	4187.3	4464.6	4212.0	3624.6	3615.0	4756.9
47.5°	6189.7	6180.1	5662.7	4214.8	4401.4	5525.5	6060.7	5574.9	4361.6	4255.9	5772.5
50°	7383.7	7354.9	6759.3	4961.4	5410.2	7183.4	8138.6	7328.8	5252.3	5003.9	7132.6
52.5°	8728.7	8758.9	8295.1	5776.6	6482.1	9027.9	10357.8	9338.1	6219.9	5955.0	8844.0
55°	9995.5	10168.4	10046.3	6730.5	7529.2	11064.6	12795.3	11542.3	7418.1	7199.8	10762.7
57.5°	10986.4	11473.6	12330.0	8116.6	8760.3	13447.2	15516.8	13931.7	8816.6	9221.4	13374.5
60°	11041.3	11686.4	13675.0	11016.6	10344.1	15490.8	18234.3	16266.2	11015.2	12653.9	15420.8
62.5°	10213.7	10905.4	12799.4	12334.2	12069.3	17229.7	19628.7	17968.0	13178.2	14664.6	14814.2
65°	9266.7	9965.3	11822.2	10839.6	11868.9	17155.5	19274.6	18007.8	13374.5	13297.6	13728.6
67.5°	7835.3	8462.5	10143.7	9594.8	10939.7	16328.0	17638.6	16872.8	12321.8	12437.1	12629.2
70°	5719.0	6322.8	7883.3	7910.8	9553.6	14836.1	15155.9	15050.2	11347.4	11469.5	10920.5
72.5°	4131.1	4640.2	5986.6	6487.5	7626.7	12441.2	12220.2	12627.9	9736.1	10215.1	8771.3
75°	2970.0	3351.5	4391.8	5643.5	6045.6	9239.3	8748.0	9780.0	7811.9	8796.0	6594.6
77.5°	1205.0	1339.5	1727.9	3801.7	3973.2	6215.8	5355.3	7103.8	5569.4	5779.4	3196.4
80°	49.4	54.9	71.4	1962.6	2724.3	3497.0	2865.7	3797.6	3678.1	2327.7	754.8
82.5°	5.5	5.5	12.4	565.4	1192.7	1929.7	1350.5	2187.7	1862.4	986.8	343.1
85°	1.4	1.4	2.7	64.5	280.0	308.8	182.5	671.1	866.0	403.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	12.4	13.7	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: P637220

CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6
2.5°	621.7	614.9	606.6	598.4	594.3	583.3	579.2	576.4	573.7	575.1	575.1
5°	601.1	586.0	568.2	550.3	540.7	529.8	524.3	521.5	522.9	528.4	528.4
7.5°	598.4	569.6	531.1	507.8	496.8	488.6	483.1	480.4	481.7	488.6	491.3
10°	643.7	592.9	524.3	484.5	472.1	463.9	458.4	454.3	451.5	457.0	458.4
12.5°	741.1	671.1	557.2	481.7	459.8	448.8	444.7	436.4	432.3	435.1	436.4
15°	942.9	822.1	623.1	492.7	448.8	436.4	429.6	422.7	415.9	414.5	415.9
17.5°	1206.4	1033.5	723.3	518.8	440.6	425.5	415.9	406.2	396.6	395.3	393.9
20°	1533.0	1292.8	863.3	560.0	433.7	415.9	402.1	388.4	376.0	371.9	371.9
22.5°	1830.8	1605.8	1043.1	610.7	424.1	402.1	385.7	369.2	355.5	348.6	347.2
25°	2194.5	1937.9	1258.5	669.8	410.4	384.3	366.4	350.0	336.2	328.0	325.3
27.5°	2561.0	2287.9	1502.8	746.6	393.9	366.4	350.0	334.9	319.8	310.2	307.4
30°	2916.4	2665.3	1777.3	842.7	381.5	348.6	334.9	319.8	306.1	291.0	286.8
32.5°	3298.0	3050.9	2084.7	949.7	371.9	336.2	321.2	307.4	289.6	275.9	269.0
35°	3665.8	3449.0	2423.7	1054.0	362.3	325.3	308.8	295.1	275.9	260.8	251.2
37.5°	4036.4	3853.8	2777.8	1117.2	348.6	310.2	295.1	284.1	262.1	244.3	233.3
40°	4428.9	4272.4	3160.7	1091.1	336.2	293.7	285.5	273.1	248.4	227.8	214.1
42.5°	4859.8	4671.8	3550.5	990.9	325.3	280.0	271.7	259.4	236.1	211.4	193.5
45°	5401.9	5109.6	3870.3	839.9	330.8	266.3	249.8	247.0	225.1	193.5	171.6
47.5°	6333.8	5782.1	4118.7	742.5	367.8	251.2	231.9	238.8	215.5	175.7	151.0
50°	7759.8	6896.5	4350.6	735.6	424.1	244.3	215.5	233.3	205.9	157.8	133.1
52.5°	9118.5	8028.8	4498.9	796.0	473.5	262.1	199.0	226.5	199.0	145.5	120.8
55°	10418.2	8682.1	4234.0	839.9	520.2	315.7	186.7	215.5	190.8	138.6	116.7
57.5°	11819.5	8973.0	3333.7	929.1	553.1	361.0	189.4	199.0	179.8	134.5	115.3
60°	12238.1	8601.1	2012.0	1045.8	535.3	374.7	210.0	177.0	164.7	126.3	111.2
62.5°	11587.5	7718.6	1187.2	952.5	520.2	354.1	240.2	163.3	149.6	115.3	102.9
65°	10614.5	6520.5	774.1	804.3	551.7	315.7	255.3	156.5	135.9	104.3	90.6
67.5°	9502.8	5252.3	542.1	474.9	509.2	284.1	215.5	155.1	122.1	87.8	74.1
70°	8004.1	3933.4	381.5	314.3	424.1	252.5	167.4	151.0	107.1	71.4	57.6
72.5°	6184.2	2462.2	284.1	203.1	301.9	205.9	133.1	127.6	86.5	59.0	43.9
75°	4560.6	1404.0	200.4	146.9	199.0	156.5	98.8	90.6	74.1	56.3	39.8
77.5°	2381.2	702.7	124.9	112.5	113.9	97.4	71.4	65.9	68.6	56.3	37.1
80°	457.0	140.0	75.5	82.3	61.8	61.8	52.2	54.9	60.4	45.3	31.6
82.5°	190.8	30.2	41.2	46.7	38.4	42.5	42.5	43.9	42.5	32.9	23.3
85°	0.0	0.0	17.8	19.2	26.1	26.1	22.0	22.0	22.0	19.2	13.7
87.5°	0.0	0.0	0.0	0.0	1.4	4.1	8.2	9.6	11.0	8.2	5.5
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: P637220
 CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6
2.5°	573.7	570.9	575.1	577.8	580.5	580.5	577.8	575.1	570.9	575.1	570.9
5°	529.8	533.9	540.7	543.5	546.2	540.7	538.0	529.8	522.9	524.3	521.5
7.5°	495.5	499.6	507.8	513.3	513.3	510.5	502.3	494.1	483.1	483.1	481.7
10°	463.9	469.4	479.0	485.8	488.6	485.8	477.6	466.6	457.0	457.0	452.9
12.5°	437.8	444.7	455.7	465.3	468.0	465.3	457.0	446.0	435.1	435.1	432.3
15°	415.9	424.1	436.4	447.4	451.5	447.4	437.8	424.1	413.1	414.5	410.4
17.5°	395.3	402.1	418.6	430.9	435.1	430.9	418.6	400.8	389.8	392.5	389.8
20°	371.9	380.2	396.6	410.4	414.5	410.4	396.6	377.4	366.4	366.4	367.8
22.5°	347.2	355.5	371.9	381.5	387.0	382.9	369.2	351.3	340.4	340.4	341.7
25°	325.3	329.4	341.7	351.3	352.7	348.6	337.6	323.9	315.7	319.8	321.2
27.5°	304.7	304.7	310.2	315.7	314.3	310.2	306.1	295.1	293.7	297.8	301.9
30°	282.7	275.9	273.1	269.0	267.6	266.3	270.4	270.4	273.1	278.6	282.7
32.5°	263.5	249.8	237.4	225.1	218.2	223.7	234.7	244.3	253.9	262.1	266.3
35°	241.6	219.6	199.0	182.5	171.6	179.8	197.6	215.5	231.9	242.9	249.8
37.5°	219.6	188.0	163.3	142.7	134.5	141.4	160.6	185.3	210.0	223.7	233.3
40°	196.3	156.5	127.6	111.2	102.9	109.8	129.0	153.7	186.7	204.5	216.8
42.5°	172.9	129.0	102.9	86.5	82.3	86.5	101.6	126.3	161.9	183.9	200.4
45°	149.6	107.1	82.3	70.0	65.9	70.0	82.3	102.9	138.6	163.3	182.5
47.5°	129.0	90.6	68.6	57.6	54.9	59.0	68.6	86.5	116.7	141.4	163.3
50°	112.5	79.6	59.0	49.4	46.7	50.8	59.0	72.7	98.8	120.8	144.1
52.5°	101.6	74.1	52.2	42.5	41.2	43.9	50.8	61.8	83.7	102.9	124.9
55°	98.8	74.1	48.0	38.4	37.1	39.8	45.3	53.5	72.7	89.2	108.4
57.5°	101.6	79.6	45.3	32.9	31.6	34.3	39.8	46.7	63.1	76.9	94.7
60°	101.6	81.0	39.8	26.1	24.7	27.4	32.9	41.2	56.3	67.2	82.3
62.5°	92.0	74.1	32.9	20.6	17.8	20.6	27.4	34.3	49.4	60.4	72.7
65°	79.6	63.1	27.4	15.1	12.4	15.1	22.0	28.8	42.5	52.2	65.9
67.5°	64.5	48.0	20.6	11.0	8.2	11.0	16.5	23.3	35.7	45.3	59.0
70°	48.0	34.3	16.5	9.6	8.2	9.6	15.1	22.0	31.6	41.2	54.9
72.5°	35.7	23.3	13.7	9.6	6.9	9.6	13.7	20.6	30.2	39.8	52.2
75°	30.2	19.2	12.4	8.2	6.9	8.2	12.4	19.2	27.4	37.1	49.4
77.5°	28.8	17.8	11.0	6.9	5.5	6.9	11.0	16.5	24.7	34.3	48.0
80°	24.7	15.1	9.6	5.5	4.1	5.5	9.6	13.7	19.2	26.1	37.1
82.5°	19.2	12.4	6.9	2.7	1.4	2.7	6.9	8.2	12.4	15.1	22.0
85°	12.4	6.9	2.7	0.0	0.0	0.0	2.7	5.5	5.5	6.9	11.0
87.5°	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	4.1
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: P637220
 CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6
2.5°	579.2	580.5	583.3	587.4	597.0	605.2	613.5	624.5	630.0	630.0
5°	524.3	525.6	527.0	532.5	546.2	557.2	575.1	597.0	608.0	610.7
7.5°	481.7	484.5	487.2	491.3	505.1	520.2	543.5	584.7	605.2	609.4
10°	457.0	461.1	466.6	474.9	487.2	503.7	543.5	617.6	651.9	658.8
12.5°	437.8	444.7	450.2	459.8	474.9	500.9	580.5	710.9	771.3	787.8
15°	418.6	426.8	435.1	444.7	461.1	510.5	651.9	878.4	978.6	990.9
17.5°	399.4	409.0	420.0	430.9	451.5	533.9	764.5	1110.3	1250.3	1277.7
20°	377.4	389.8	404.9	418.6	441.9	570.9	920.9	1386.2	1561.8	1620.9
22.5°	354.1	369.2	387.0	404.9	430.9	616.2	1110.3	1682.6	1928.3	1966.7
25°	334.9	350.0	366.4	384.3	413.1	671.1	1339.5	2050.4	2274.1	2311.2
27.5°	317.0	332.1	347.2	363.7	395.3	742.5	1615.4	2441.6	2674.9	2713.3
30°	297.8	315.7	330.8	347.2	378.8	830.3	1933.8	2875.3	3096.2	3131.9
32.5°	281.4	299.2	314.3	330.8	366.4	926.4	2268.6	3259.6	3439.3	3439.3
35°	267.6	286.8	297.8	319.8	356.8	988.2	2585.7	3626.0	3761.9	3756.4
37.5°	252.5	275.9	284.1	299.2	344.5	995.0	2883.5	4013.0	4113.2	4077.5
40°	237.4	262.1	274.5	282.7	330.8	938.8	3210.1	4368.5	4453.6	4406.9
42.5°	223.7	242.9	260.8	270.4	322.5	839.9	3472.3	4748.7	4850.2	4809.0
45°	210.0	226.5	237.4	255.3	328.0	771.3	3697.4	5192.0	5370.4	5340.2
47.5°	196.3	210.0	216.8	244.3	365.1	739.7	3834.6	5878.2	6214.4	6189.7
50°	181.2	197.6	197.6	241.6	420.0	750.7	3954.0	6871.8	7392.0	7383.7
52.5°	166.1	183.9	181.2	262.1	462.5	801.5	4089.9	7748.8	8653.3	8728.7
55°	151.0	167.4	170.2	303.3	487.2	845.4	3564.2	8118.0	9730.6	9995.5
57.5°	134.5	144.1	177.0	334.9	479.0	973.1	2441.6	8185.3	10418.2	10986.4
60°	116.7	124.9	200.4	328.0	452.9	899.0	1537.1	7581.4	10320.8	11041.3
62.5°	101.6	115.3	211.4	289.6	461.1	779.5	979.9	6461.5	9391.6	10213.7
65°	89.2	111.2	192.1	262.1	466.6	528.4	661.5	5256.5	8484.4	9266.7
67.5°	79.6	123.5	157.8	233.3	400.8	371.9	454.3	4084.4	7134.0	7835.3
70°	72.7	126.3	129.0	200.4	310.2	238.8	299.2	2749.0	4917.5	5719.0
72.5°	65.9	93.3	97.4	160.6	200.4	145.5	193.5	1572.8	3584.8	4131.1
75°	63.1	63.1	67.2	104.3	111.2	105.7	124.9	938.8	2570.6	2970.0
77.5°	59.0	48.0	42.5	67.2	60.4	75.5	74.1	417.2	1114.4	1205.0
80°	46.7	34.3	28.8	42.5	41.2	50.8	43.9	34.3	50.8	49.4
82.5°	28.8	22.0	20.6	26.1	23.3	26.1	20.6	5.5	5.5	5.5
85°	13.7	12.4	11.0	11.0	12.4	11.0	8.2	2.7	1.4	1.4
87.5°	6.9	6.9	5.5	4.1	5.5	5.5	4.1	1.4	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)