

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: P638208

Luminaire Tested: GWS-SA4E-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16102.6 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

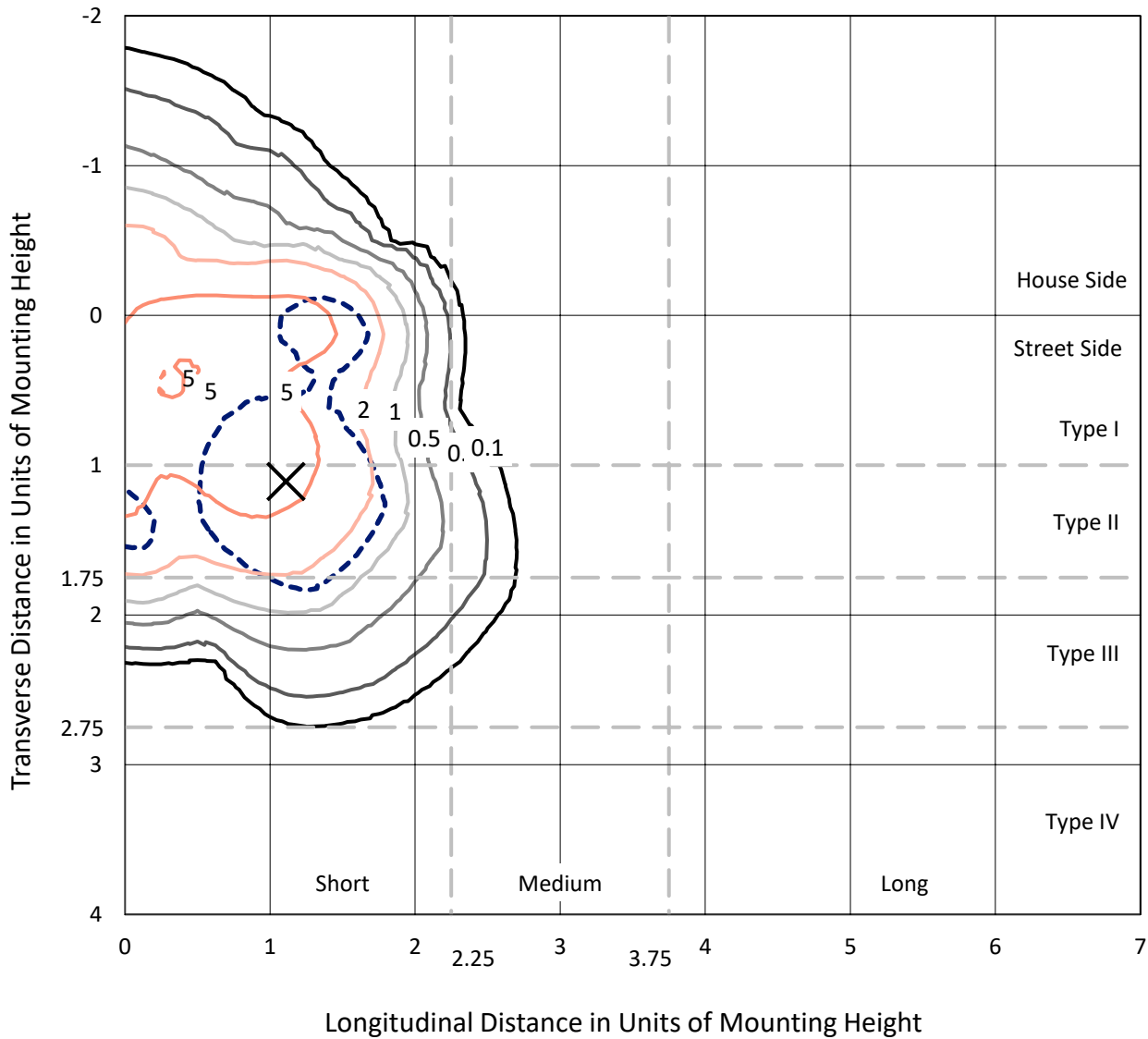
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638208
 CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

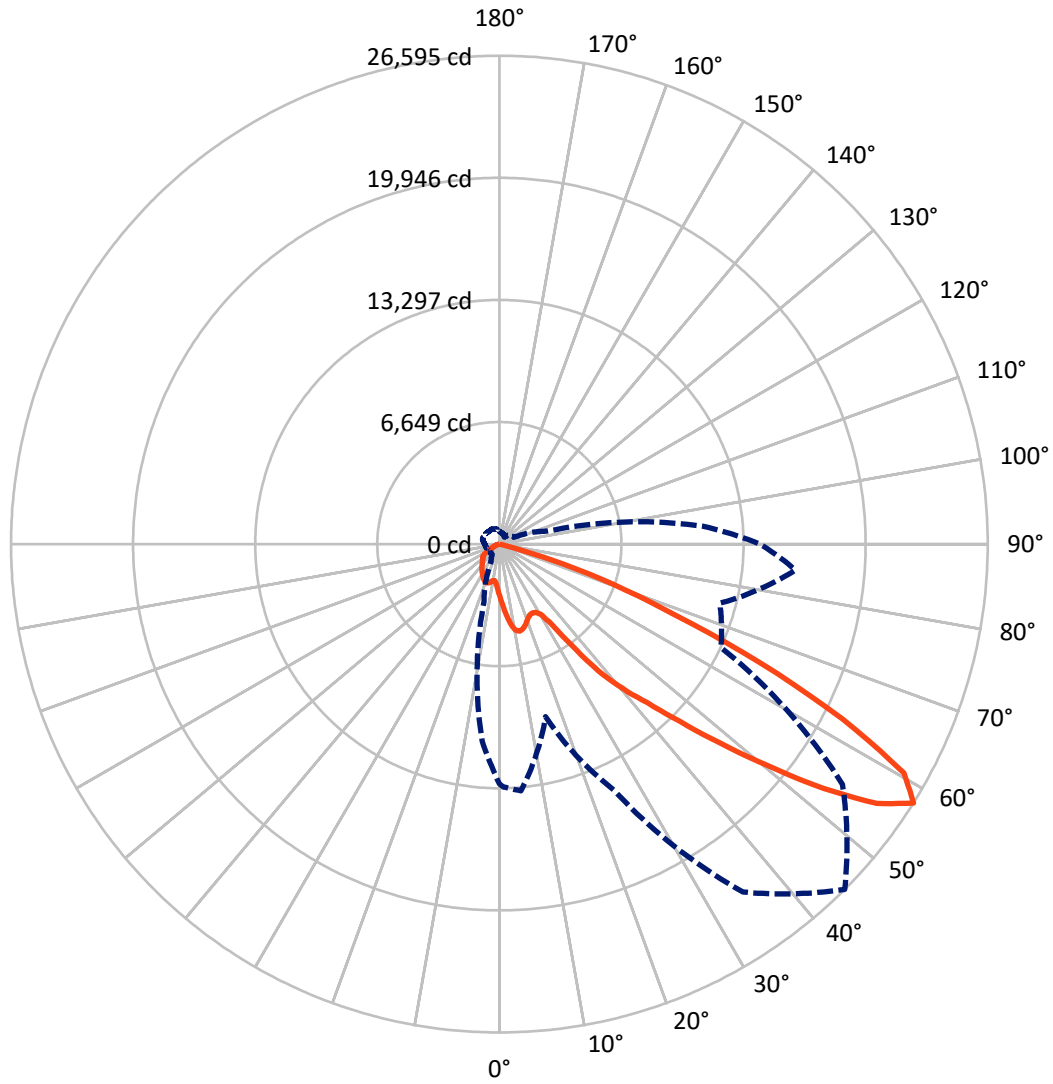
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

REPORT NUMBER: P638208
CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638208

CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

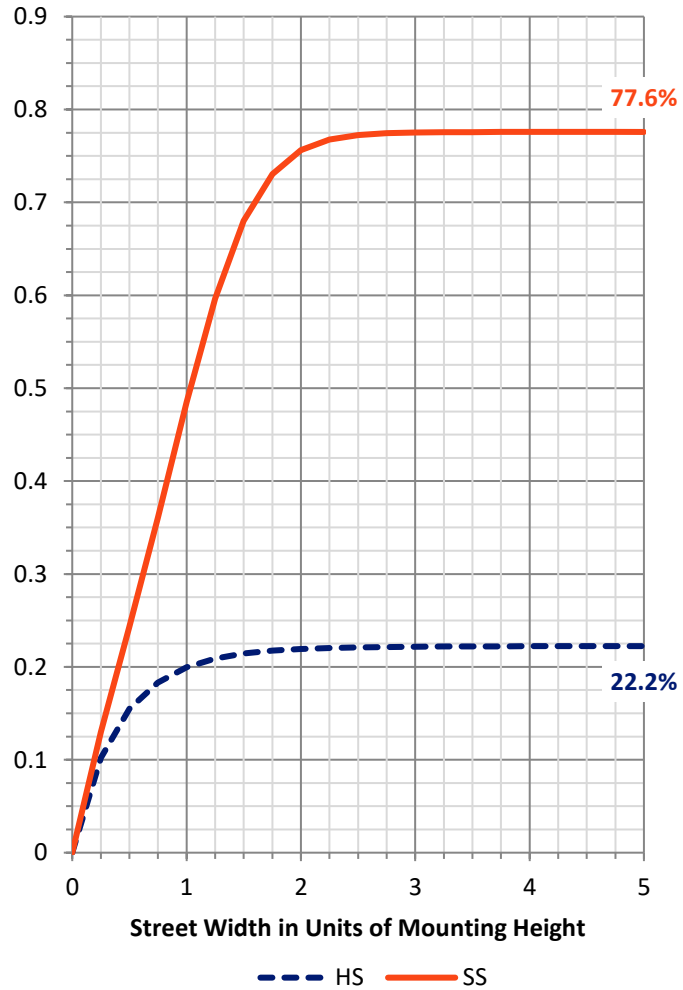
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3605.8	0.0	3605.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	12496.8	0.0	12496.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	16102.6	0.0	16102.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	1.7
10°-20°	900.7	5.6
20°-30°	1463.1	9.1
30°-40°	2260.7	14.0
40°-50°	3625.1	22.5
50°-60°	4954.5	30.8
60°-70°	2399.6	14.9
70°-80°	219.7	1.4
80°-90°	0.6	0.0
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°	16102.6	100.0
0°-180°	16102.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638208

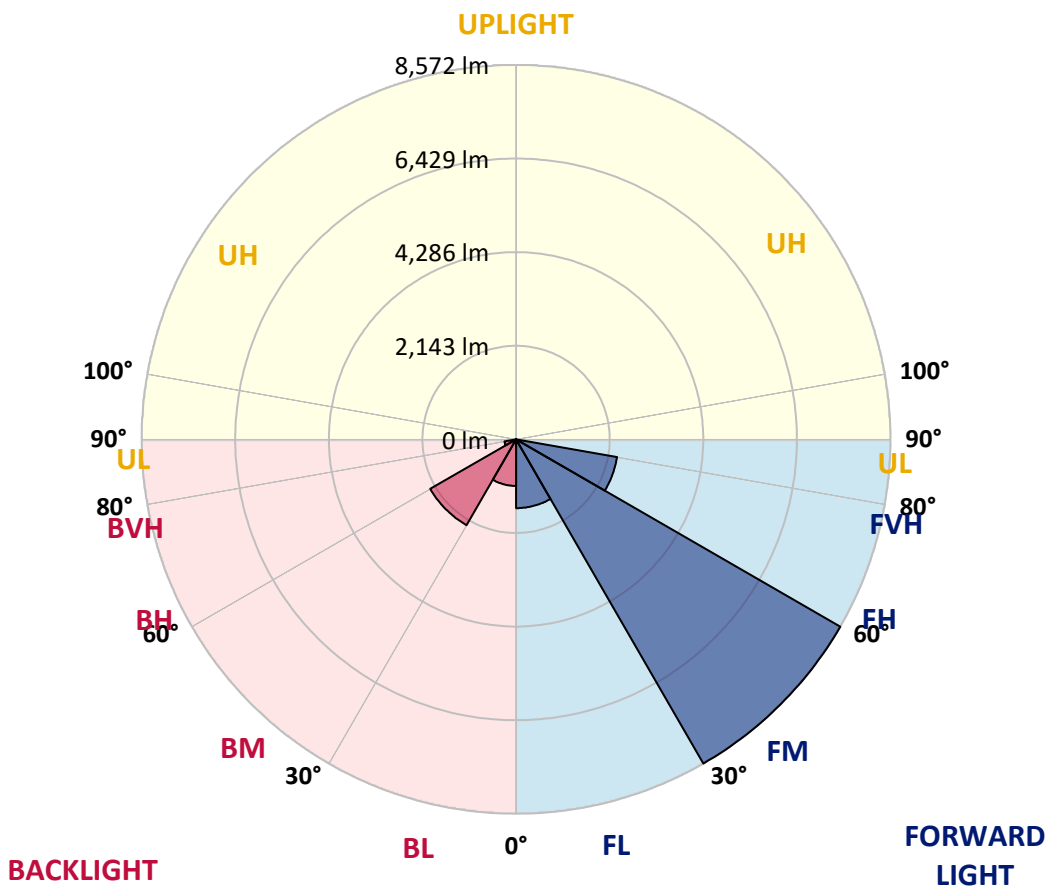
CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.3	9.8			
FM (30°-60°)	8571.8	53.2			
FH (60°-80°)	2349.1	14.6			G2/5000
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1066.9	6.6	B3/2500		
BM (30°-60°)	2268.6	14.1	B2/2500		
BH (60°-80°)	270.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P638208
 CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2
2.5°	3066.1	3085.5	3118.0	3187.2	3245.6	3284.6	3301.9	3297.6	3273.8	3256.5	3221.8
5°	3394.9	3394.9	3457.7	3615.7	3736.8	3812.6	3851.5	3827.7	3780.1	3704.4	3587.5
7.5°	3682.7	3693.5	3799.6	4024.6	4208.5	4316.7	4379.5	4366.5	4282.1	4137.1	3903.4
10°	3907.8	3920.7	4061.4	4336.2	4552.6	4662.9	4756.0	4764.6	4671.6	4479.0	4210.7
12.5°	4126.3	4139.3	4286.4	4550.4	4740.8	4786.2	4868.5	4900.9	4877.1	4740.8	4461.7
15°	4362.2	4392.4	4517.9	4714.8	4794.9	4740.8	4794.9	4853.3	4933.4	4920.4	4669.4
17.5°	4593.7	4615.3	4743.0	4812.2	4723.5	4582.9	4608.8	4678.1	4859.8	5037.2	4875.0
20°	4807.9	4838.2	4944.2	4853.3	4585.0	4366.5	4368.6	4459.5	4736.5	5108.6	5084.8
22.5°	5032.9	5078.4	5154.1	4898.8	4457.4	4195.5	4206.4	4288.6	4639.1	5175.7	5322.9
25°	5327.2	5370.5	5420.2	5011.3	4416.2	4111.2	4152.3	4228.0	4639.1	5290.4	5617.1
27.5°	5725.3	5755.6	5757.8	5221.2	4487.6	4124.1	4210.7	4297.2	4777.6	5519.8	6010.9
30°	6225.2	6272.8	6210.0	5547.9	4710.5	4297.2	4424.9	4533.1	5076.2	5907.1	6590.8
32.5°	6833.2	6900.2	6815.9	6032.6	5175.7	4894.4	5126.0	5188.7	5552.2	6467.5	7248.6
35°	7547.2	7603.5	7512.6	6703.3	6261.9	6313.9	6733.6	6653.6	6508.6	7157.7	8016.7
37.5°	8330.5	8382.4	8207.2	7720.3	7867.5	8092.5	8763.2	8488.5	8021.1	8047.0	8849.8
40°	9048.9	9105.1	8830.3	8826.0	9128.9	9540.0	10349.3	9970.6	9334.5	9211.1	9630.9
42.5°	9793.2	9832.1	9583.3	9414.5	10102.6	10948.7	11805.5	11294.9	10204.3	10070.2	10608.9
45°	10855.6	10937.8	10494.3	9704.5	10978.9	12569.3	13763.7	12766.2	10797.2	10689.0	12106.3
47.5°	12417.8	12478.4	11574.0	9886.2	11794.7	14588.1	16210.9	14674.7	11318.7	11072.0	14153.2
50°	13709.6	13750.7	12567.1	10085.3	12662.4	16764.9	19000.0	16938.0	11905.0	11706.0	16063.8
52.5°	14661.7	14817.5	13871.9	10494.3	13802.7	19324.6	22087.7	19618.9	12820.3	12930.7	17647.7
55°	14858.6	15070.6	14763.4	10745.3	14806.6	21931.9	24939.6	22018.5	13733.4	13858.9	18180.0
57.5°	13058.3	13227.1	13482.4	9732.6	14782.8	23126.3	26594.8	22814.7	13318.0	12428.7	16187.1
60°	9782.4	9899.2	10362.3	7439.0	13594.9	22070.4	25305.2	21460.2	11645.4	9483.8	12333.5
62.5°	5801.1	5853.0	6439.4	4818.7	11284.0	19006.5	20986.4	18517.5	9202.5	6378.8	7553.7
65°	2226.5	2204.9	2652.8	2378.0	8298.0	15139.9	15609.4	14116.4	6313.9	2923.2	2880.0
67.5°	344.0	328.9	443.6	703.2	5985.0	10492.1	10299.5	10174.0	3955.4	681.6	595.0
70°	77.9	77.9	95.2	207.7	3656.8	6164.6	6597.3	6290.1	2531.6	145.0	77.9
72.5°	36.8	36.8	45.4	88.7	1324.2	2540.3	2960.0	2914.6	822.2	47.6	28.1
75°	13.0	15.1	15.1	19.5	80.1	132.0	302.9	216.4	51.9	0.0	0.0
77.5°	4.3	4.3	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P638208
 CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2
2.5°	3146.1	3131.0	3074.7	2999.0	2925.4	2860.5	2793.4	2713.4	2654.9	2587.9	2566.2
5°	3496.6	3401.4	3247.8	3087.7	2940.6	2815.1	2693.9	2564.1	2468.9	2373.7	2341.2
7.5°	3793.1	3652.4	3403.6	3163.4	2962.2	2784.8	2609.5	2432.1	2293.6	2181.1	2146.5
10°	4059.2	3896.9	3563.7	3267.3	3014.1	2808.6	2596.5	2373.7	2194.1	2059.9	2027.4
12.5°	4288.6	4100.3	3700.0	3345.2	3035.8	2799.9	2594.4	2416.9	2254.6	2101.0	2059.9
15°	4481.2	4273.4	3814.7	3397.1	3003.3	2691.7	2512.1	2484.0	2471.0	2302.2	2222.2
17.5°	4669.4	4435.7	3907.8	3420.9	2912.4	2501.3	2371.5	2499.1	2635.5	2525.1	2423.4
20°	4866.3	4600.2	4003.0	3425.2	2761.0	2287.1	2265.5	2466.7	2639.8	2605.2	2510.0
22.5°	5097.8	4805.7	4122.0	3423.1	2570.6	2105.3	2187.6	2403.9	2544.6	2542.4	2466.7
25°	5433.2	5065.4	4282.1	3436.1	2362.8	1964.7	2101.0	2297.9	2412.6	2408.3	2345.5
27.5°	5792.4	5374.8	4489.8	3468.5	2185.4	1882.5	1999.3	2152.9	2252.5	2248.2	2194.1
30°	6296.6	5731.8	4688.9	3470.7	2057.7	1839.2	1886.8	1992.8	2088.0	2077.2	2036.1
32.5°	6908.9	6134.3	4855.5	3347.3	1977.7	1798.1	1770.0	1824.1	1897.6	1882.5	1871.7
35°	7648.9	6612.5	4998.3	3076.9	1854.3	1715.9	1640.1	1651.0	1702.9	1711.5	1707.2
37.5°	8492.8	7181.5	5175.7	2719.9	1687.7	1596.9	1495.2	1486.5	1516.8	1544.9	1566.6
40°	9325.8	7822.0	5415.9	2358.5	1536.3	1445.4	1348.0	1326.4	1339.4	1389.1	1434.6
42.5°	10262.7	8564.2	5675.6	2049.1	1432.4	1278.8	1185.7	1144.6	1181.4	1261.5	1315.6
45°	11612.9	9605.0	5928.7	1802.4	1389.1	1131.6	1006.2	1001.8	1042.9	1146.8	1207.4
47.5°	13508.4	10950.8	6095.3	1609.8	1387.0	1017.0	867.7	893.6	941.2	1042.9	1112.2
50°	15356.2	12636.4	5911.4	1462.7	1341.5	941.2	763.8	815.7	863.3	952.1	1023.5
52.5°	16470.6	13543.0	5195.2	1324.2	1200.9	906.6	662.1	753.0	761.6	841.7	917.4
55°	16353.7	12956.6	3979.2	1110.0	993.2	856.9	556.1	679.4	683.7	744.3	809.2
57.5°	14194.3	11123.9	2732.8	900.1	746.5	707.6	458.7	573.4	614.5	651.3	698.9
60°	10578.6	8116.3	1218.2	731.4	473.9	478.2	391.6	432.8	495.5	538.8	579.9
62.5°	6233.8	4669.4	495.5	439.2	261.8	300.8	315.9	315.9	354.9	387.3	413.3
65°	2356.3	1633.6	201.2	220.7	136.3	140.6	186.1	229.4	259.7	287.8	322.4
67.5°	413.3	285.6	103.9	82.2	80.1	71.4	95.2	149.3	166.6	188.2	203.4
70°	69.2	58.4	43.3	41.1	36.8	38.9	62.7	106.0	116.8	123.3	129.8
72.5°	19.5	17.3	13.0	10.8	8.7	10.8	38.9	82.2	86.6	90.9	97.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	15.1	58.4	62.7	64.9	71.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	17.3	21.6	17.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P638208

CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2
2.5°	2553.2	2510.0	2486.2	2473.2	2473.2	2455.9	2436.4	2429.9	2458.0	2458.0	2505.6
5°	2300.1	2265.5	2226.5	2202.7	2165.9	2172.4	2150.8	2148.6	2176.7	2189.7	2239.5
7.5°	2124.8	2081.5	2057.7	2042.6	2023.1	2014.5	1995.0	1988.5	2003.6	2025.3	2072.9
10°	2008.0	2001.5	1999.3	2010.1	2010.1	1999.3	1982.0	1971.2	1975.5	2016.6	2070.7
12.5°	2038.3	2051.2	2055.6	2072.9	2081.5	2072.9	2059.9	2064.2	2092.4	2168.1	2248.2
15°	2170.3	2159.4	2155.1	2163.8	2170.3	2161.6	2157.3	2189.7	2287.1	2395.3	2486.2
17.5°	2310.9	2241.7	2211.4	2211.4	2215.7	2211.4	2215.7	2278.4	2436.4	2544.6	2611.7
20°	2382.3	2254.6	2207.0	2196.2	2204.9	2207.0	2222.2	2293.6	2466.7	2542.4	2557.6
22.5°	2360.7	2200.5	2146.5	2137.8	2146.5	2155.1	2170.3	2230.8	2393.1	2432.1	2425.6
25°	2252.5	2094.5	2051.2	2051.2	2070.7	2068.6	2075.1	2118.3	2252.5	2276.3	2265.5
27.5°	2116.2	1966.9	1930.1	1951.7	1969.0	1964.7	1966.9	2003.6	2103.2	2109.7	2098.9
30°	1977.7	1847.9	1813.2	1839.2	1863.0	1858.7	1860.8	1897.6	1960.4	1953.9	1938.7
32.5°	1837.0	1741.8	1715.9	1731.0	1767.8	1763.5	1772.1	1811.1	1834.9	1806.7	1789.4
35°	1707.2	1657.4	1638.0	1646.6	1674.8	1681.2	1696.4	1722.4	1722.4	1687.7	1657.4
37.5°	1586.0	1579.5	1566.6	1555.7	1581.7	1601.2	1622.8	1653.1	1609.8	1560.1	1531.9
40°	1473.5	1501.7	1484.3	1456.2	1471.4	1499.5	1542.8	1566.6	1514.6	1464.9	1417.3
42.5°	1369.7	1417.3	1410.8	1376.2	1389.1	1415.1	1464.9	1484.3	1423.8	1367.5	1322.1
45°	1270.1	1337.2	1341.5	1298.3	1311.2	1337.2	1395.6	1402.1	1324.2	1263.6	1231.2
47.5°	1183.6	1257.1	1259.3	1226.9	1231.2	1268.0	1322.1	1324.2	1235.5	1179.3	1138.1
50°	1101.4	1185.7	1192.2	1164.1	1168.4	1211.7	1257.1	1248.5	1153.3	1094.9	1058.1
52.5°	1001.8	1116.5	1131.6	1118.7	1136.0	1170.6	1198.7	1168.4	1058.1	999.7	967.2
55°	893.6	1042.9	1075.4	1066.7	1086.2	1114.3	1120.8	1101.4	962.9	904.5	874.2
57.5°	768.1	859.0	915.3	898.0	913.1	941.2	960.7	945.6	841.7	796.3	770.3
60°	636.1	696.7	709.7	681.6	668.6	718.4	763.8	744.3	655.6	627.5	597.2
62.5°	465.2	534.4	543.1	506.3	491.2	545.3	584.2	564.7	467.4	437.1	413.3
65°	372.2	437.1	454.4	419.8	411.1	452.2	476.0	428.4	359.2	326.7	300.8
67.5°	244.5	296.4	341.9	339.7	322.4	335.4	318.1	279.1	229.4	212.0	194.7
70°	151.5	181.8	209.9	220.7	218.5	214.2	190.4	162.3	147.1	140.6	132.0
72.5°	116.8	147.1	168.8	175.3	177.4	170.9	151.5	125.5	110.4	101.7	95.2
75°	86.6	110.4	127.7	136.3	140.6	136.3	116.8	99.5	84.4	77.9	71.4
77.5°	30.3	36.8	45.4	49.8	47.6	45.4	41.1	41.1	32.5	30.3	26.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P638208
 CATALOG NUMBER: GWS-SA4E-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2	2830.2
2.5°	2559.7	2598.7	2670.1	2735.0	2804.2	2875.6	2953.5	3033.6	3070.4	3066.1
5°	2315.2	2399.6	2516.5	2644.1	2786.9	2940.6	3111.5	3286.8	3362.5	3394.9
7.5°	2161.6	2280.6	2434.2	2596.5	2784.8	3003.3	3260.8	3535.6	3645.9	3682.7
10°	2181.1	2319.6	2447.2	2605.2	2806.4	3089.9	3410.1	3736.8	3866.6	3907.8
12.5°	2339.0	2369.3	2403.9	2533.8	2786.9	3154.8	3546.4	3935.9	4085.2	4126.3
15°	2481.8	2341.2	2276.3	2395.3	2717.7	3200.2	3684.9	4150.1	4314.5	4362.2
17.5°	2488.3	2276.3	2131.3	2224.4	2605.2	3219.7	3821.2	4368.6	4548.2	4593.7
20°	2408.3	2204.9	2018.8	2021.0	2451.5	3215.4	3933.7	4565.5	4766.8	4807.9
22.5°	2291.4	2120.5	1927.9	1860.8	2287.1	3206.7	4057.1	4775.4	4994.0	5032.9
25°	2161.6	2012.3	1841.4	1739.7	2122.7	3215.4	4230.2	5050.2	5290.4	5327.2
27.5°	2021.0	1893.3	1774.3	1692.1	1984.2	3247.8	4437.9	5400.8	5686.4	5725.3
30°	1873.8	1778.6	1731.0	1681.2	1897.6	3256.5	4662.9	5809.7	6171.1	6225.2
32.5°	1728.8	1676.9	1679.1	1687.7	1815.4	3195.9	4868.5	6264.1	6746.6	6833.2
35°	1594.7	1579.5	1622.8	1666.1	1696.4	3040.1	5048.1	6800.7	7458.5	7547.2
37.5°	1480.0	1493.0	1547.1	1590.4	1566.6	2819.4	5286.1	7471.5	8254.8	8330.5
40°	1369.7	1402.1	1464.9	1484.3	1467.0	2561.9	5571.7	8118.4	8945.0	9048.9
42.5°	1268.0	1291.8	1380.5	1384.8	1438.9	2300.1	5846.5	8815.2	9739.1	9793.2
45°	1185.7	1181.4	1272.3	1300.4	1475.7	2010.1	6114.8	9743.4	10777.7	10855.6
47.5°	1105.7	1101.4	1123.0	1250.7	1490.8	1741.8	6380.9	11102.3	12283.7	12417.8
50°	1030.0	1036.4	969.4	1226.9	1408.6	1536.3	6502.1	12359.4	13653.4	13709.6
52.5°	962.9	939.1	822.2	1149.0	1233.3	1341.5	6158.1	12930.7	14501.6	14661.7
55°	867.7	735.7	677.3	932.6	973.7	1170.6	5043.7	12599.6	14575.1	14858.6
57.5°	742.2	577.7	575.6	688.1	688.1	1086.2	3230.5	10764.7	12560.7	13058.3
60°	571.2	447.9	476.0	478.2	441.4	791.9	1813.2	7798.2	9286.9	9782.4
62.5°	406.8	341.9	359.2	285.6	253.2	396.0	869.8	4489.8	5731.8	5801.1
65°	272.6	231.5	188.2	158.0	155.8	168.8	359.2	1622.8	1973.4	2226.5
67.5°	179.6	140.6	99.5	99.5	112.5	112.5	136.3	268.3	376.5	344.0
70°	116.8	97.4	62.7	60.6	73.6	73.6	69.2	73.6	77.9	77.9
72.5°	86.6	73.6	36.8	32.5	41.1	43.3	38.9	36.8	36.8	36.8
75°	64.9	51.9	21.6	15.1	19.5	26.0	21.6	15.1	15.1	13.0
77.5°	26.0	19.5	8.7	6.5	10.8	15.1	13.0	6.5	4.3	4.3
80°	2.2	4.3	4.3	4.3	6.5	8.7	10.8	4.3	2.2	2.2
82.5°	0.0	2.2	2.2	2.2	4.3	6.5	8.7	4.3	2.2	2.2
85°	0.0	0.0	0.0	0.0	4.3	6.5	4.3	2.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.2	6.5	4.3	2.2	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)