

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: P638373

Luminaire Tested: GWS-SA4E-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638373
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16471.6 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

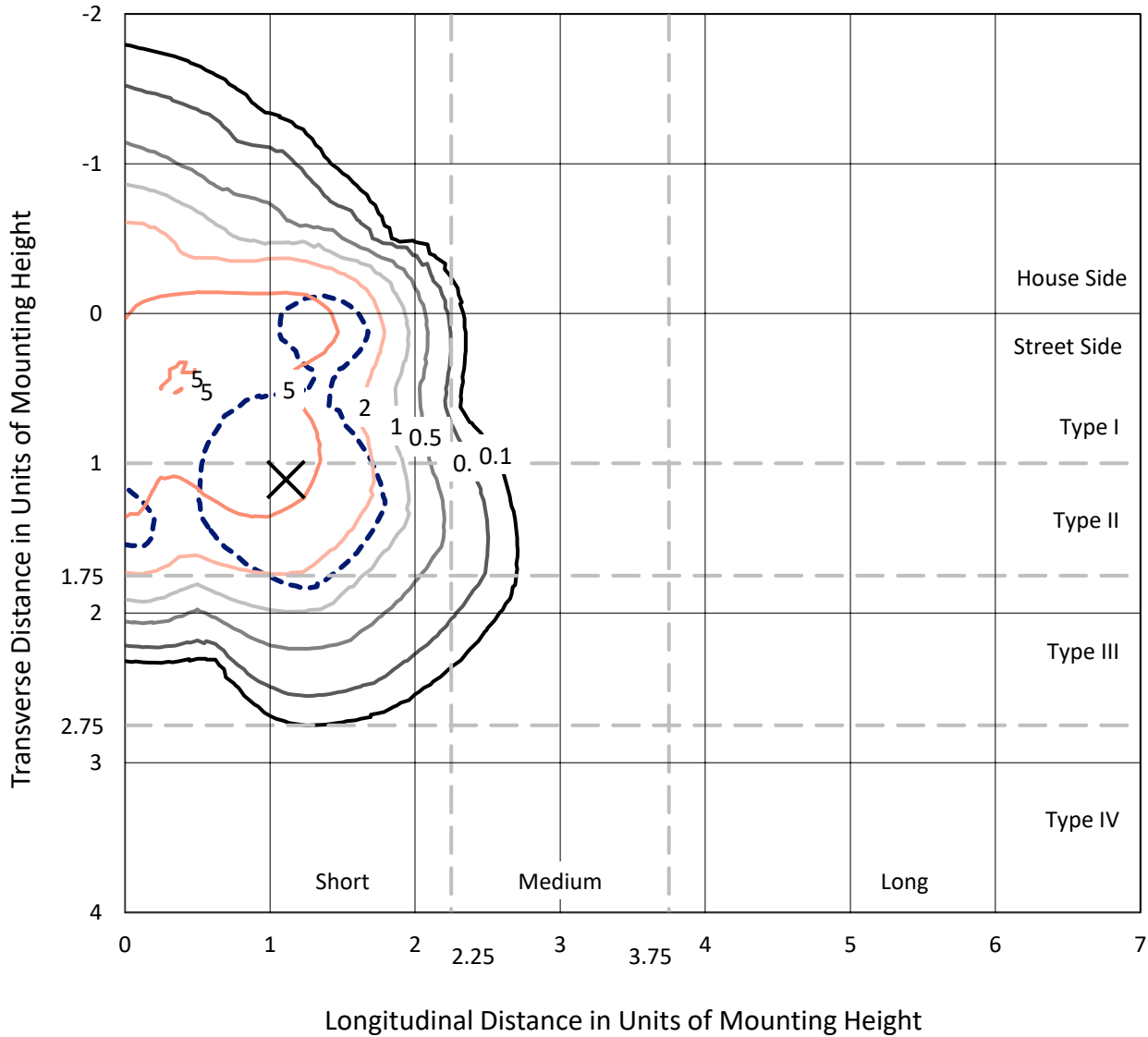
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

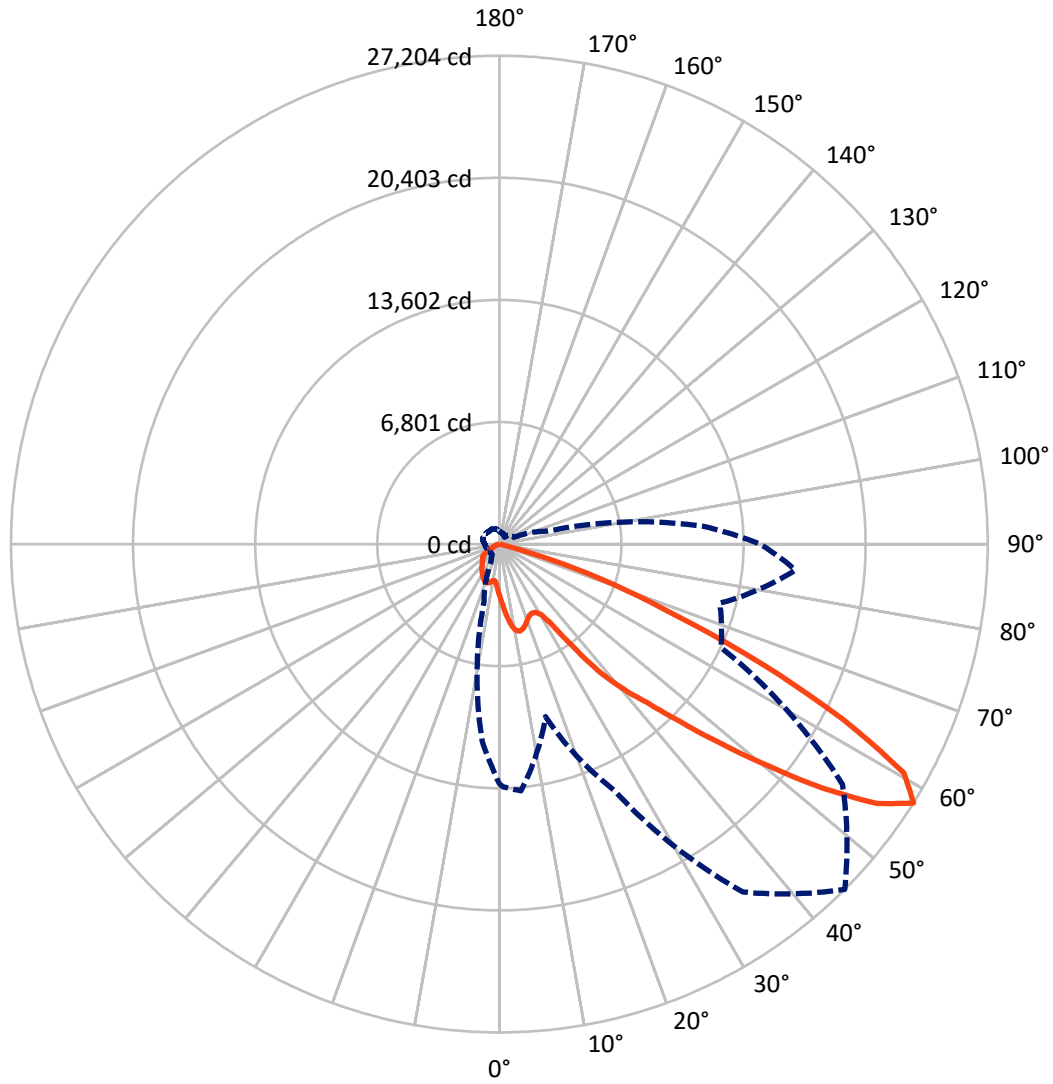
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3688.4	0.0	3688.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	12783.2	0.0	12783.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	16471.6	0.0	16471.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	1.7
10°-20°	921.3	5.6
20°-30°	1496.7	9.1
30°-40°	2312.5	14.0
40°-50°	3708.2	22.5
50°-60°	5068.1	30.8
60°-70°	2454.6	14.9
70°-80°	224.8	1.4
80°-90°	0.7	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°	16471.6	100.0
0°-180°	16471.6	100.0

Coefficient of Utilization



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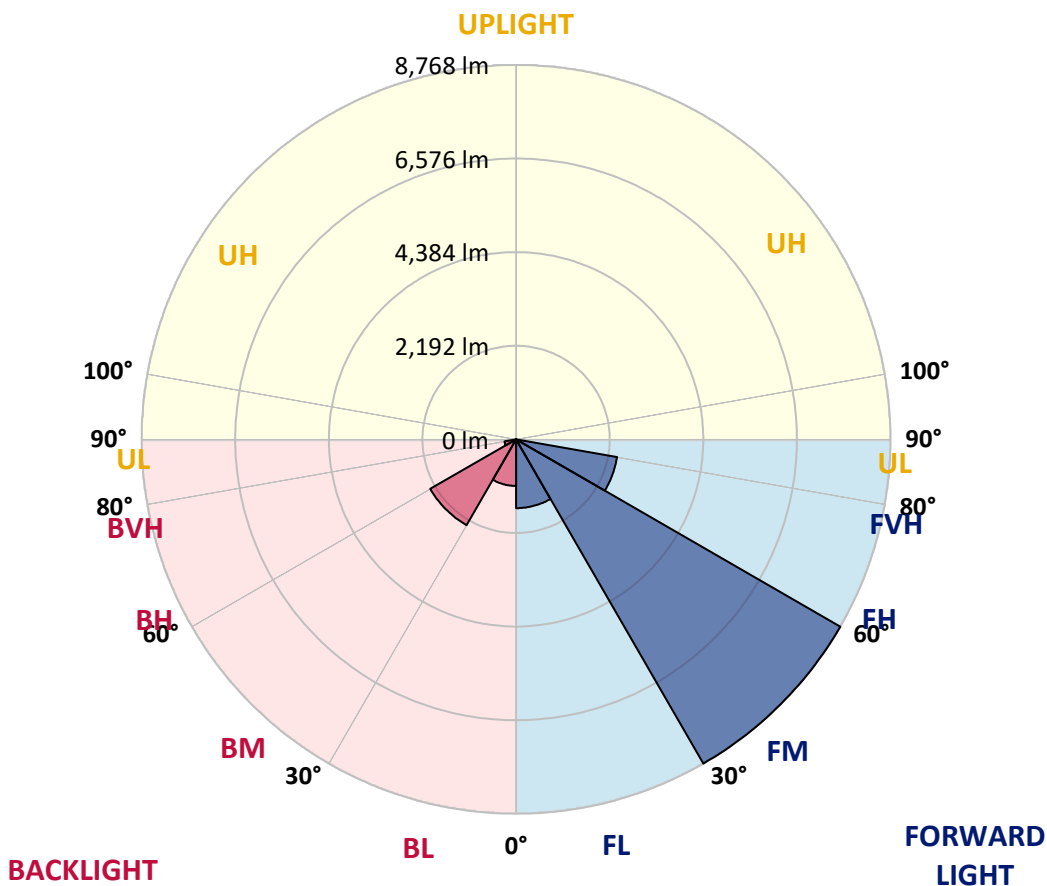
CATALOG NUMBER: GWS-SA4E-760-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.4	9.8			
FM (30°-60°)	8768.2	53.2			
FH (60°-80°)	2402.9	14.6			G2/5000
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	1091.4	6.6	B3/2500		
BM (30°-60°)	2320.6	14.1	B2/2500		
BH (60°-80°)	276.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1
2.5°	3136.3	3156.2	3189.4	3260.3	3320.0	3359.9	3377.6	3373.1	3348.8	3331.1	3295.7
5°	3472.7	3472.7	3536.9	3698.5	3822.5	3899.9	3939.8	3915.4	3866.7	3789.3	3669.7
7.5°	3767.1	3778.2	3886.6	4116.8	4305.0	4415.6	4479.8	4466.5	4380.2	4231.9	3992.9
10°	3997.3	4010.6	4154.5	4435.6	4656.9	4769.8	4864.9	4873.8	4778.6	4581.6	4307.2
12.5°	4220.9	4234.1	4384.6	4654.7	4849.4	4895.9	4980.0	5013.2	4988.9	4849.4	4563.9
15°	4462.1	4493.1	4621.5	4822.9	4904.8	4849.4	4904.8	4964.5	5046.4	5033.2	4776.4
17.5°	4698.9	4721.1	4851.7	4922.5	4831.7	4687.9	4714.4	4785.3	4971.2	5152.7	4986.7
20°	4918.1	4949.0	5057.5	4964.5	4690.1	4466.5	4468.8	4561.7	4845.0	5225.7	5201.4
22.5°	5148.2	5194.7	5272.2	5011.0	4559.5	4291.7	4302.8	4386.9	4745.4	5294.3	5444.8
25°	5449.3	5493.5	5544.4	5126.1	4517.4	4205.4	4247.4	4324.9	4745.4	5411.6	5745.9
27.5°	5856.5	5887.5	5889.7	5340.8	4590.5	4218.6	4307.2	4395.7	4887.1	5646.3	6148.7
30°	6367.8	6416.5	6352.3	5675.0	4818.5	4395.7	4526.3	4637.0	5192.5	6042.4	6741.9
32.5°	6989.8	7058.4	6972.0	6170.8	5294.3	5006.6	5243.4	5307.6	5679.5	6615.7	7414.7
35°	7720.2	7777.7	7684.7	6857.0	6405.4	6458.6	6887.9	6806.0	6657.8	7321.8	8200.5
37.5°	8521.4	8574.5	8395.2	7897.2	8047.7	8277.9	8964.1	8683.0	8204.9	8231.4	9052.6
40°	9256.2	9313.8	9032.7	9028.3	9338.1	9758.7	10586.4	10199.1	9548.4	9422.2	9851.6
42.5°	10017.6	10057.5	9802.9	9630.3	10334.1	11199.5	12076.0	11553.7	10438.2	10300.9	10852.1
45°	11104.4	11188.5	10734.7	9926.9	11230.5	12857.3	14079.1	13058.8	11044.6	10933.9	12383.7
47.5°	12702.4	12764.4	11839.2	10112.8	12065.0	14922.4	16582.4	15010.9	11578.0	11325.7	14477.5
50°	14023.8	14065.8	12855.1	10316.4	12952.5	17149.0	19435.4	17326.1	12177.8	11974.2	16431.9
52.5°	14997.7	15157.0	14189.8	10734.7	14119.0	19767.4	22593.9	20068.4	13114.1	13227.0	18052.1
55°	15199.1	15416.0	15101.7	10991.5	15145.9	22434.5	25511.1	22523.0	14048.1	14176.5	18596.6
57.5°	13357.6	13530.2	13791.4	9955.6	15121.6	23656.3	27204.3	23337.6	13623.2	12713.5	16558.1
60°	10006.6	10126.1	10599.7	7609.5	13906.5	22576.2	25885.1	21952.0	11912.2	9701.1	12616.1
62.5°	5934.0	5987.1	6586.9	4929.1	11542.6	19442.1	21467.3	18941.8	9413.4	6525.0	7726.8
65°	2277.5	2255.4	2713.6	2432.5	8488.2	15486.8	15967.1	14439.9	6458.6	2990.2	2946.0
67.5°	351.9	336.4	453.7	719.3	6122.1	10732.5	10535.5	10407.2	4046.0	697.2	608.7
70°	79.7	79.7	97.4	212.5	3740.6	6305.8	6748.5	6434.2	2589.6	148.3	79.7
72.5°	37.6	37.6	46.5	90.7	1354.6	2598.5	3027.9	2981.4	841.1	48.7	28.8
75°	13.3	15.5	15.5	19.9	81.9	135.0	309.9	221.3	53.1	0.0	0.0
77.5°	4.4	4.4	4.4	4.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1
2.5°	3218.2	3202.7	3145.2	3067.7	2992.4	2926.0	2857.4	2775.5	2715.8	2647.2	2625.0
5°	3576.8	3479.4	3322.2	3158.4	3007.9	2879.6	2755.6	2622.8	2525.4	2428.0	2394.8
7.5°	3880.0	3736.1	3481.6	3235.9	3030.1	2848.6	2669.3	2487.8	2346.1	2231.1	2195.6
10°	4152.2	3986.2	3645.4	3342.2	3083.2	2872.9	2656.0	2428.0	2244.3	2107.1	2073.9
12.5°	4386.9	4194.3	3784.8	3421.8	3105.3	2864.1	2653.8	2472.3	2306.3	2149.2	2107.1
15°	4583.8	4371.4	3902.1	3475.0	3072.1	2753.4	2569.7	2540.9	2527.6	2355.0	2273.1
17.5°	4776.4	4537.4	3997.3	3499.3	2979.2	2558.6	2425.8	2556.4	2695.9	2583.0	2479.0
20°	4977.8	4705.6	4094.7	3503.7	2824.2	2339.5	2317.4	2523.2	2700.3	2664.9	2567.5
22.5°	5214.7	4915.8	4216.4	3501.5	2629.5	2153.6	2237.7	2459.0	2602.9	2600.7	2523.2
25°	5557.7	5181.5	4380.2	3514.8	2417.0	2009.7	2149.2	2350.6	2467.9	2463.5	2399.3
27.5°	5925.1	5498.0	4592.7	3548.0	2235.5	1925.6	2045.1	2202.3	2304.1	2299.7	2244.3
30°	6440.8	5863.2	4796.3	3550.2	2104.9	1881.3	1930.0	2038.5	2135.9	2124.8	2082.8
32.5°	7067.2	6274.8	4966.8	3424.1	2023.0	1839.3	1810.5	1865.9	1941.1	1925.6	1914.5
35°	7824.2	6764.0	5112.8	3147.4	1896.8	1755.2	1677.7	1688.8	1741.9	1750.8	1746.3
37.5°	8687.4	7346.1	5294.3	2782.2	1726.4	1633.5	1529.4	1520.6	1551.6	1580.3	1602.5
40°	9539.5	8001.3	5540.0	2412.6	1571.5	1478.5	1378.9	1356.8	1370.1	1421.0	1467.5
42.5°	10497.9	8760.4	5805.6	2096.0	1465.2	1308.1	1212.9	1170.9	1208.5	1290.4	1345.7
45°	11879.0	9825.1	6064.6	1843.7	1421.0	1157.6	1029.2	1024.8	1066.8	1173.1	1235.0
47.5°	13817.9	11201.8	6235.0	1646.7	1418.8	1040.3	887.6	914.1	962.8	1066.8	1137.7
50°	15708.1	12926.0	6046.9	1496.2	1372.3	962.8	781.3	834.4	883.1	973.9	1046.9
52.5°	16848.0	13853.4	5314.3	1354.6	1228.4	927.4	677.3	770.2	779.1	861.0	938.5
55°	16728.5	13253.5	4070.3	1135.4	1015.9	876.5	568.8	695.0	699.4	761.4	827.8
57.5°	14519.6	11378.8	2795.5	920.8	763.6	723.8	469.2	586.5	628.6	666.2	714.9
60°	10821.1	8302.3	1246.1	748.1	484.7	489.2	400.6	442.7	506.9	551.1	593.2
62.5°	6376.7	4776.4	506.9	449.3	267.8	307.7	323.1	323.1	363.0	396.2	422.7
65°	2410.3	1671.1	205.8	225.8	139.4	143.9	190.3	234.6	265.6	294.4	329.8
67.5°	422.7	292.2	106.2	84.1	81.9	73.0	97.4	152.7	170.4	192.6	208.1
70°	70.8	59.8	44.3	42.1	37.6	39.8	64.2	108.5	119.5	126.2	132.8
72.5°	19.9	17.7	13.3	11.1	8.9	11.1	39.8	84.1	88.5	93.0	99.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	15.5	59.8	64.2	66.4	73.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	17.7	22.1	17.7
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1
2.5°	2611.8	2567.5	2543.1	2529.9	2529.9	2512.2	2492.2	2485.6	2514.4	2514.4	2563.1
5°	2352.8	2317.4	2277.5	2253.2	2215.6	2222.2	2200.1	2197.9	2226.6	2239.9	2290.8
7.5°	2173.5	2129.2	2104.9	2089.4	2069.5	2060.6	2040.7	2034.1	2049.6	2071.7	2120.4
10°	2054.0	2047.3	2045.1	2056.2	2056.2	2045.1	2027.4	2016.4	2020.8	2062.8	2118.2
12.5°	2085.0	2098.3	2102.7	2120.4	2129.2	2120.4	2107.1	2111.5	2140.3	2217.8	2299.7
15°	2220.0	2208.9	2204.5	2213.3	2220.0	2211.1	2206.7	2239.9	2339.5	2450.2	2543.1
17.5°	2363.9	2293.0	2262.0	2262.0	2266.5	2262.0	2266.5	2330.7	2492.2	2602.9	2671.5
20°	2436.9	2306.3	2257.6	2246.5	2255.4	2257.6	2273.1	2346.1	2523.2	2600.7	2616.2
22.5°	2414.8	2251.0	2195.6	2186.8	2195.6	2204.5	2220.0	2282.0	2448.0	2487.8	2481.2
25°	2304.1	2142.5	2098.3	2098.3	2118.2	2116.0	2122.6	2166.9	2304.1	2328.4	2317.4
27.5°	2164.7	2011.9	1974.3	1996.4	2014.1	2009.7	2011.9	2049.6	2151.4	2158.0	2146.9
30°	2023.0	1890.2	1854.8	1881.3	1905.7	1901.3	1903.5	1941.1	2005.3	1998.7	1983.2
32.5°	1879.1	1781.7	1755.2	1770.7	1808.3	1803.9	1812.7	1852.6	1876.9	1848.1	1830.4
35°	1746.3	1695.4	1675.5	1684.4	1713.1	1719.8	1735.3	1761.8	1761.8	1726.4	1695.4
37.5°	1622.4	1615.7	1602.5	1591.4	1618.0	1637.9	1660.0	1691.0	1646.7	1595.8	1567.1
40°	1507.3	1536.1	1518.4	1489.6	1505.1	1533.9	1578.1	1602.5	1549.3	1498.4	1449.7
42.5°	1401.0	1449.7	1443.1	1407.7	1421.0	1447.5	1498.4	1518.4	1456.4	1398.8	1352.4
45°	1299.2	1367.8	1372.3	1328.0	1341.3	1367.8	1427.6	1434.3	1354.6	1292.6	1259.4
47.5°	1210.7	1286.0	1288.2	1255.0	1259.4	1297.0	1352.4	1354.6	1263.8	1206.3	1164.2
50°	1126.6	1212.9	1219.6	1190.8	1195.2	1239.5	1286.0	1277.1	1179.7	1120.0	1082.3
52.5°	1024.8	1142.1	1157.6	1144.3	1162.0	1197.4	1226.2	1195.2	1082.3	1022.6	989.4
55°	914.1	1066.8	1100.0	1091.2	1111.1	1139.9	1146.5	1126.6	984.9	925.2	894.2
57.5°	785.7	878.7	936.2	918.5	934.0	962.8	982.7	967.2	861.0	814.5	788.0
60°	650.7	712.7	726.0	697.2	683.9	734.8	781.3	761.4	670.6	641.9	610.9
62.5°	475.9	546.7	555.6	517.9	502.4	557.8	597.6	577.7	478.1	447.1	422.7
65°	380.7	447.1	464.8	429.4	420.5	462.6	486.9	438.2	367.4	334.2	307.7
67.5°	250.1	303.2	349.7	347.5	329.8	343.1	325.4	285.5	234.6	216.9	199.2
70°	154.9	185.9	214.7	225.8	223.5	219.1	194.8	166.0	150.5	143.9	135.0
72.5°	119.5	150.5	172.6	179.3	181.5	174.9	154.9	128.4	112.9	104.0	97.4
75°	88.5	112.9	130.6	139.4	143.9	139.4	119.5	101.8	86.3	79.7	73.0
77.5°	31.0	37.6	46.5	50.9	48.7	46.5	42.1	42.1	33.2	31.0	26.6
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: P638373

CATALOG NUMBER: GWS-SA4E-760-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1	2895.1
2.5°	2618.4	2658.2	2731.3	2797.7	2868.5	2941.5	3021.2	3103.1	3140.7	3136.3
5°	2368.3	2454.6	2574.1	2704.7	2850.8	3007.9	3182.8	3362.1	3439.5	3472.7
7.5°	2211.1	2332.9	2490.0	2656.0	2848.6	3072.1	3335.5	3616.6	3729.5	3767.1
10°	2231.1	2372.7	2503.3	2664.9	2870.7	3160.7	3488.2	3822.5	3955.3	3997.3
12.5°	2392.6	2423.6	2459.0	2591.8	2850.8	3227.1	3627.7	4026.1	4178.8	4220.9
15°	2538.7	2394.8	2328.4	2450.2	2780.0	3273.5	3769.3	4245.2	4413.4	4462.1
17.5°	2545.4	2328.4	2180.1	2275.3	2664.9	3293.5	3908.8	4468.8	4652.5	4698.9
20°	2463.5	2255.4	2065.1	2067.3	2507.7	3289.0	4023.9	4670.2	4876.0	4918.1
22.5°	2343.9	2169.1	1972.1	1903.5	2339.5	3280.2	4150.0	4884.9	5108.4	5148.2
25°	2211.1	2058.4	1883.6	1779.5	2171.3	3289.0	4327.1	5166.0	5411.6	5449.3
27.5°	2067.3	1936.7	1814.9	1730.8	2029.6	3322.2	4539.6	5524.5	5816.7	5856.5
30°	1916.8	1819.4	1770.7	1719.8	1941.1	3331.1	4769.8	5942.8	6312.5	6367.8
32.5°	1768.5	1715.3	1717.6	1726.4	1857.0	3269.1	4980.0	6407.6	6901.2	6989.8
35°	1631.2	1615.7	1660.0	1704.3	1735.3	3109.8	5163.7	6956.6	7629.4	7720.2
37.5°	1513.9	1527.2	1582.5	1626.8	1602.5	2884.0	5407.2	7642.7	8443.9	8521.4
40°	1401.0	1434.3	1498.4	1518.4	1500.7	2620.6	5699.4	8304.5	9150.0	9256.2
42.5°	1297.0	1321.4	1412.1	1416.5	1471.9	2352.8	5980.5	9017.2	9962.3	10017.6
45°	1212.9	1208.5	1301.4	1330.2	1509.5	2056.2	6254.9	9966.7	11024.7	11104.4
47.5°	1131.0	1126.6	1148.7	1279.3	1525.0	1781.7	6527.2	11356.7	12565.2	12702.4
50°	1053.6	1060.2	991.6	1255.0	1440.9	1571.5	6651.1	12642.6	13966.2	14023.8
52.5°	984.9	960.6	841.1	1175.3	1261.6	1372.3	6299.2	13227.0	14833.9	14997.7
55°	887.6	752.5	692.8	954.0	996.0	1197.4	5159.3	12888.3	14909.1	15199.1
57.5°	759.2	591.0	588.8	703.8	703.8	1111.1	3304.5	11011.4	12848.5	13357.6
60°	584.3	458.2	486.9	489.2	451.5	810.1	1854.8	7976.9	9499.7	10006.6
62.5°	416.1	349.7	367.4	292.2	259.0	405.0	889.8	4592.7	5863.2	5934.0
65°	278.9	236.8	192.6	161.6	159.4	172.6	367.4	1660.0	2018.6	2277.5
67.5°	183.7	143.9	101.8	101.8	115.1	115.1	139.4	274.5	385.1	351.9
70°	119.5	99.6	64.2	62.0	75.3	75.3	70.8	75.3	79.7	79.7
72.5°	88.5	75.3	37.6	33.2	42.1	44.3	39.8	37.6	37.6	37.6
75°	66.4	53.1	22.1	15.5	19.9	26.6	22.1	15.5	15.5	13.3
77.5°	26.6	19.9	8.9	6.6	11.1	15.5	13.3	6.6	4.4	4.4
80°	2.2	4.4	4.4	4.4	6.6	8.9	11.1	4.4	2.2	2.2
82.5°	0.0	2.2	2.2	2.2	4.4	6.6	8.9	4.4	2.2	2.2
85°	0.0	0.0	0.0	0.0	4.4	6.6	4.4	2.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.2	6.6	4.4	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)