

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: P638263

Luminaire Tested: GWS-SA4E-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638263
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16326.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

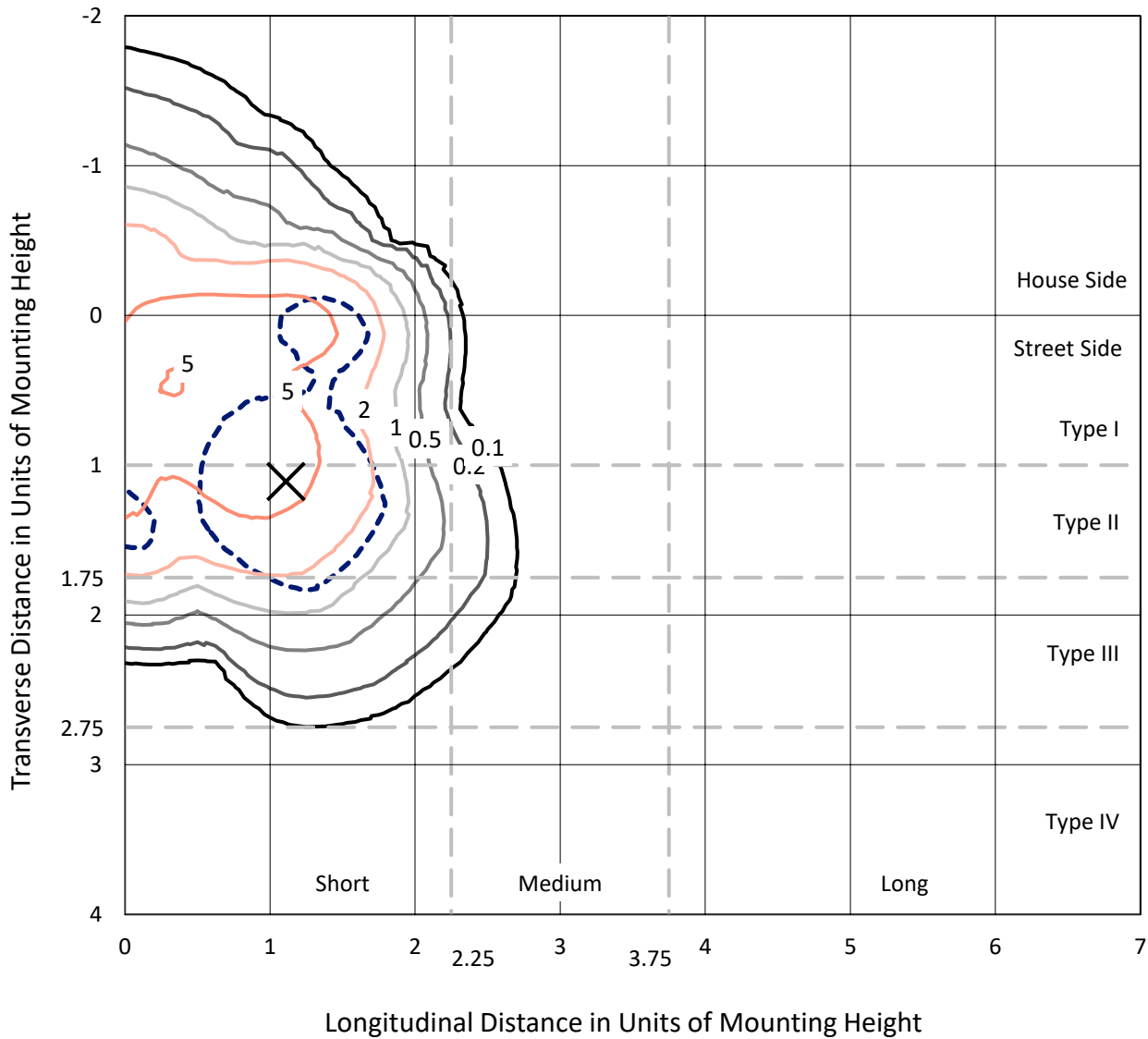
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638263
 CATALOG NUMBER: GWS-SA4E-740-U-SLR-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

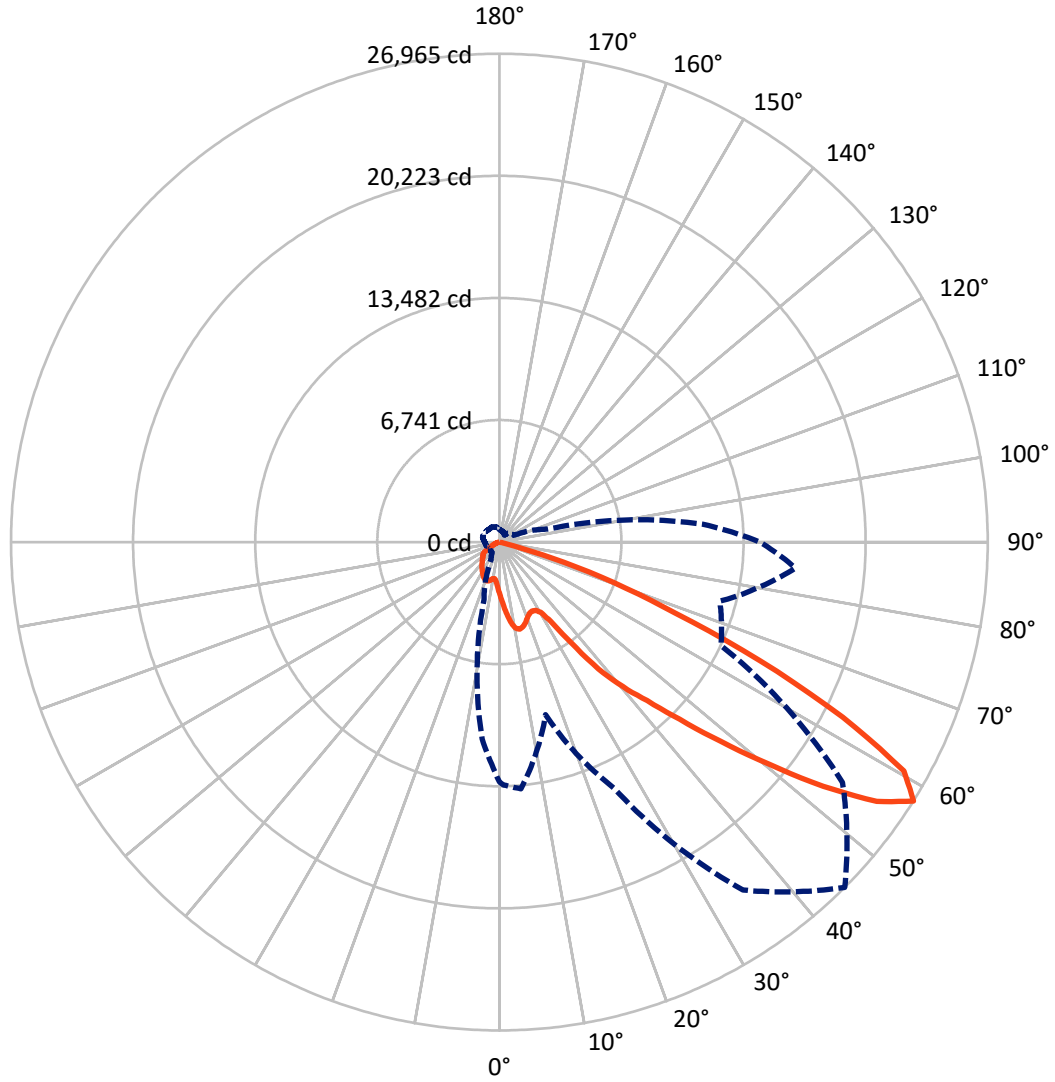
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P638263
CATALOG NUMBER: GWS-SA4E-740-U-SLR-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638263
 CATALOG NUMBER: GWS-SA4E-740-U-SLR-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3655.9	0.0	3655.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	12670.5	0.0	12670.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	16326.4	0.0	16326.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	1.7
10°-20°	913.2	5.6
20°-30°	1483.5	9.1
30°-40°	2292.2	14.0
40°-50°	3675.5	22.5
50°-60°	5023.4	30.8
60°-70°	2433.0	14.9
70°-80°	222.8	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°	16326.4	100.0
0°-180°	16326.4	100.0

Coefficient of Utilization



REPORT NUMBER: P638263

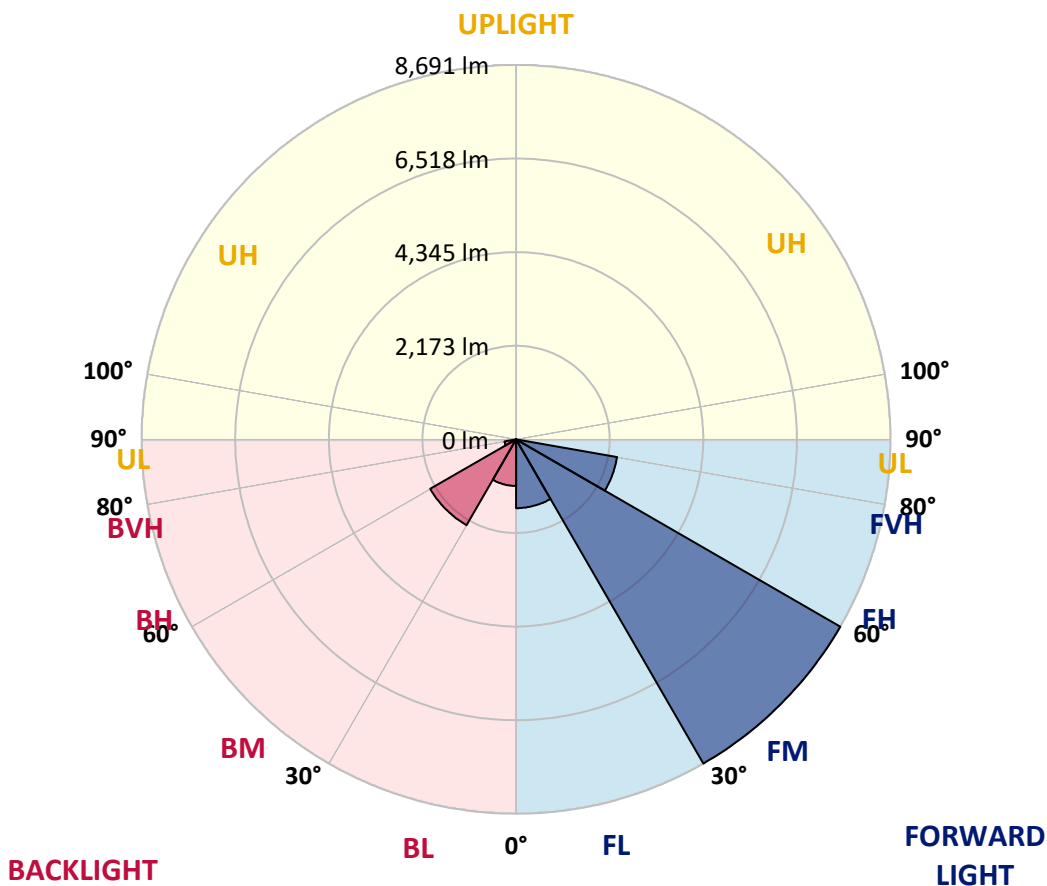
CATALOG NUMBER: GWS-SA4E-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.2	9.8			
FM (30°-60°)	8690.9	53.2			
FH (60°-80°)	2381.7	14.6			G2/5000
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1081.7	6.6	B3/2500		
BM (30°-60°)	2300.1	14.1	B2/2500		
BH (60°-80°)	274.0	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: P638263

CATALOG NUMBER: GWS-SA4E-740-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	3108.7	3128.4	3161.3	3231.5	3290.8	3330.2	3347.8	3343.4	3319.3	3301.7	3266.6
5°	3442.1	3442.1	3505.8	3665.9	3788.8	3865.5	3905.0	3880.9	3832.6	3755.9	3637.4
7.5°	3733.9	3744.9	3852.4	4080.5	4267.0	4376.7	4440.3	4427.2	4341.6	4194.6	3957.7
10°	3962.1	3975.2	4117.8	4396.5	4615.8	4727.7	4822.1	4830.8	4736.5	4541.2	4269.2
12.5°	4183.6	4196.8	4346.0	4613.6	4806.7	4852.8	4936.1	4969.0	4944.9	4806.7	4523.7
15°	4422.8	4453.5	4580.7	4780.4	4861.5	4806.7	4861.5	4920.8	5002.0	4988.8	4734.3
17.5°	4657.5	4679.5	4808.9	4879.1	4789.1	4646.5	4672.9	4743.1	4927.4	5107.3	4942.7
20°	4874.7	4905.4	5012.9	4920.8	4648.7	4427.2	4429.4	4521.5	4802.3	5179.7	5155.5
22.5°	5102.9	5148.9	5225.7	4966.8	4519.3	4253.9	4264.8	4348.2	4703.6	5247.7	5396.8
25°	5401.2	5445.1	5495.6	5080.9	4477.6	4168.3	4210.0	4286.8	4703.6	5363.9	5695.2
27.5°	5804.9	5835.6	5837.8	5293.7	4550.0	4181.5	4269.2	4357.0	4844.0	5596.5	6094.5
30°	6311.7	6359.9	6296.3	5625.0	4776.0	4357.0	4486.4	4596.1	5146.7	5989.2	6682.4
32.5°	6928.1	6996.1	6910.6	6116.4	5247.7	4962.5	5197.2	5260.8	5629.4	6557.4	7349.4
35°	7652.1	7709.1	7617.0	6796.5	6349.0	6401.6	6827.2	6746.1	6599.1	7257.2	8128.2
37.5°	8446.3	8498.9	8321.2	7827.6	7976.8	8205.0	8885.0	8606.4	8132.6	8158.9	8972.8
40°	9174.6	9231.7	8953.1	8948.7	9255.8	9672.6	10493.1	10109.2	9464.2	9339.2	9764.8
42.5°	9929.3	9968.8	9716.5	9545.4	10243.0	11100.8	11969.6	11451.8	10346.1	10210.1	10756.4
45°	11006.5	11089.9	10640.1	9839.4	11131.5	12744.0	13955.0	12943.6	10947.3	10837.6	12274.5
47.5°	12590.4	12651.9	11734.8	10023.6	11958.6	14790.9	16436.2	14878.6	11476.0	11225.9	14349.9
50°	13900.2	13941.8	12741.8	10225.5	12838.3	16997.9	19264.1	17173.4	12070.5	11868.7	16287.1
52.5°	14865.4	15023.4	14064.7	10640.1	13994.5	19593.2	22394.7	19891.5	12998.5	13110.4	17892.9
55°	15065.1	15280.1	14968.6	10894.6	15012.4	22236.7	25286.2	22324.5	13924.3	14051.5	18432.6
57.5°	13239.8	13410.9	13669.8	9867.9	14988.3	23447.7	26964.5	23131.8	13503.1	12601.4	16412.1
60°	9918.3	10036.8	10506.3	7542.4	13783.9	22377.1	25656.9	21758.5	11807.2	9615.6	12504.9
62.5°	5881.7	5934.3	6528.9	4885.7	11440.9	19270.7	21278.0	18774.9	9330.4	6467.4	7658.7
65°	2257.5	2235.5	2689.6	2411.0	8413.4	15350.3	15826.3	14312.6	6401.6	2963.9	2920.0
67.5°	348.8	333.5	449.7	713.0	6068.2	10637.9	10442.7	10315.4	4010.3	691.1	603.3
70°	79.0	79.0	96.5	210.6	3707.6	6250.2	6689.0	6377.5	2566.8	147.0	79.0
72.5°	37.3	37.3	46.1	89.9	1342.6	2575.6	3001.2	2955.1	833.7	48.3	28.5
75°	13.2	15.4	15.4	19.7	81.2	133.8	307.1	219.4	52.7	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



REPORT NUMBER: P638263

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	3189.8	3174.5	3117.4	3040.7	2966.1	2900.3	2832.2	2751.1	2691.8	2623.8	2601.9
5°	3545.2	3448.7	3293.0	3130.6	2981.4	2854.2	2731.3	2599.7	2503.2	2406.6	2373.7
7.5°	3845.8	3703.2	3450.9	3207.4	3003.4	2823.5	2645.8	2465.9	2325.5	2211.4	2176.3
10°	4115.6	3951.1	3613.3	3312.7	3056.0	2847.6	2632.6	2406.6	2224.6	2088.5	2055.6
12.5°	4348.2	4157.3	3751.5	3391.7	3078.0	2838.8	2630.4	2450.5	2286.0	2130.2	2088.5
15°	4543.4	4332.8	3867.7	3444.3	3045.0	2729.1	2547.0	2518.5	2505.4	2334.2	2253.1
17.5°	4734.3	4497.4	3962.1	3468.5	2952.9	2536.1	2404.4	2533.9	2672.1	2560.2	2457.1
20°	4933.9	4664.1	4058.6	3472.8	2799.3	2318.9	2296.9	2501.0	2676.5	2641.4	2544.9
22.5°	5168.7	4872.5	4179.3	3470.7	2606.3	2134.6	2218.0	2437.4	2580.0	2577.8	2501.0
25°	5508.7	5135.8	4341.6	3483.8	2395.7	1992.0	2130.2	2329.9	2446.1	2441.7	2378.1
27.5°	5872.9	5449.5	4552.2	3516.7	2215.8	1908.6	2027.1	2182.9	2283.8	2279.4	2224.6
30°	6384.1	5811.5	4754.0	3518.9	2086.3	1864.8	1913.0	2020.5	2117.1	2106.1	2064.4
32.5°	7004.9	6219.5	4923.0	3393.9	2005.2	1823.1	1794.6	1849.4	1924.0	1908.6	1897.7
35°	7755.2	6704.4	5067.8	3119.6	1880.1	1739.7	1662.9	1673.9	1726.6	1735.3	1730.9
37.5°	8610.8	7281.3	5247.7	2757.7	1711.2	1619.1	1515.9	1507.2	1537.9	1566.4	1588.3
40°	9455.4	7930.7	5491.2	2391.3	1557.6	1465.5	1366.8	1344.8	1358.0	1408.4	1454.5
42.5°	10405.4	8683.2	5754.4	2077.6	1452.3	1296.6	1202.2	1160.5	1197.8	1279.0	1333.9
45°	11774.3	9738.4	6011.1	1827.5	1408.4	1147.4	1020.1	1015.7	1057.4	1162.7	1224.2
47.5°	13696.1	11103.0	6180.0	1632.2	1406.3	1031.1	879.7	906.1	954.3	1057.4	1127.6
50°	15569.7	12812.0	5993.6	1483.0	1360.2	954.3	774.4	827.1	875.3	965.3	1037.7
52.5°	16699.5	13731.2	5267.4	1342.6	1217.6	919.2	671.3	763.5	772.2	853.4	930.2
55°	16581.0	13136.7	4034.5	1125.4	1007.0	868.8	563.8	688.9	693.3	754.7	820.5
57.5°	14391.6	11278.5	2770.8	912.6	756.9	717.4	465.1	581.4	623.0	660.3	708.6
60°	10725.7	8229.1	1235.1	741.5	480.5	484.8	397.1	438.8	502.4	546.3	587.9
62.5°	6320.4	4734.3	502.4	445.3	265.5	304.9	320.3	320.3	359.8	392.7	419.0
65°	2389.1	1656.3	204.0	223.8	138.2	142.6	188.7	232.5	263.3	291.8	326.9
67.5°	419.0	289.6	105.3	83.4	81.2	72.4	96.5	151.4	168.9	190.9	206.2
70°	70.2	59.2	43.9	41.7	37.3	39.5	63.6	107.5	118.5	125.0	131.6
72.5°	19.7	17.6	13.2	11.0	8.8	11.0	39.5	83.4	87.8	92.1	98.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	15.4	59.2	63.6	65.8	72.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	17.6	21.9	17.6
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: P638263

CATALOG NUMBER: GWS-SA4E-740-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	2588.7	2544.9	2520.7	2507.6	2507.6	2490.0	2470.3	2463.7	2492.2	2492.2	2540.5
5°	2332.0	2296.9	2257.5	2233.3	2196.0	2202.6	2180.7	2178.5	2207.0	2220.2	2270.6
7.5°	2154.3	2110.5	2086.3	2071.0	2051.2	2042.5	2022.7	2016.1	2031.5	2053.4	2101.7
10°	2035.9	2029.3	2027.1	2038.1	2038.1	2027.1	2009.6	1998.6	2003.0	2044.7	2099.5
12.5°	2066.6	2079.8	2084.1	2101.7	2110.5	2101.7	2088.5	2092.9	2121.4	2198.2	2279.4
15°	2200.4	2189.5	2185.1	2193.8	2200.4	2191.6	2187.3	2220.2	2318.9	2428.6	2520.7
17.5°	2343.0	2272.8	2242.1	2242.1	2246.5	2242.1	2246.5	2310.1	2470.3	2580.0	2648.0
20°	2415.4	2286.0	2237.7	2226.7	2235.5	2237.7	2253.1	2325.5	2501.0	2577.8	2593.1
22.5°	2393.5	2231.1	2176.3	2167.5	2176.3	2185.1	2200.4	2261.8	2426.4	2465.9	2459.3
25°	2283.8	2123.6	2079.8	2079.8	2099.5	2097.3	2103.9	2147.8	2283.8	2307.9	2296.9
27.5°	2145.6	1994.2	1956.9	1978.8	1996.4	1992.0	1994.2	2031.5	2132.4	2139.0	2128.0
30°	2005.2	1873.5	1838.4	1864.8	1888.9	1884.5	1886.7	1924.0	1987.6	1981.0	1965.7
32.5°	1862.6	1766.0	1739.7	1755.1	1792.4	1788.0	1796.8	1836.2	1860.4	1831.9	1814.3
35°	1730.9	1680.5	1660.7	1669.5	1698.0	1704.6	1720.0	1746.3	1746.3	1711.2	1680.5
37.5°	1608.1	1601.5	1588.3	1577.4	1603.7	1623.4	1645.4	1676.1	1632.2	1581.8	1553.2
40°	1494.0	1522.5	1505.0	1476.5	1491.8	1520.3	1564.2	1588.3	1535.7	1485.2	1437.0
42.5°	1388.7	1437.0	1430.4	1395.3	1408.4	1434.8	1485.2	1505.0	1443.5	1386.5	1340.4
45°	1287.8	1355.8	1360.2	1316.3	1329.5	1355.8	1415.0	1421.6	1342.6	1281.2	1248.3
47.5°	1200.0	1274.6	1276.8	1243.9	1248.3	1285.6	1340.4	1342.6	1252.7	1195.6	1154.0
50°	1116.7	1202.2	1208.8	1180.3	1184.7	1228.5	1274.6	1265.8	1169.3	1110.1	1072.8
52.5°	1015.7	1132.0	1147.4	1134.2	1151.8	1186.9	1215.4	1184.7	1072.8	1013.6	980.6
55°	906.1	1057.4	1090.3	1081.6	1101.3	1129.8	1136.4	1116.7	976.3	917.0	886.3
57.5°	778.8	871.0	928.0	910.4	925.8	954.3	974.1	958.7	853.4	807.3	781.0
60°	645.0	706.4	719.6	691.1	677.9	728.4	774.4	754.7	664.7	636.2	605.5
62.5°	471.7	541.9	550.7	513.4	498.0	552.8	592.3	572.6	473.9	443.2	419.0
65°	377.3	443.2	460.7	425.6	416.8	458.5	482.6	434.4	364.2	331.3	304.9
67.5°	247.9	300.6	346.6	344.4	326.9	340.0	322.5	283.0	232.5	215.0	197.4
70°	153.6	184.3	212.8	223.8	221.6	217.2	193.1	164.5	149.2	142.6	133.8
72.5°	118.5	149.2	171.1	177.7	179.9	173.3	153.6	127.2	111.9	103.1	96.5
75°	87.8	111.9	129.4	138.2	142.6	138.2	118.5	100.9	85.6	79.0	72.4
77.5°	30.7	37.3	46.1	50.5	48.3	46.1	41.7	41.7	32.9	30.7	26.3
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: P638263

CATALOG NUMBER: GWS-SA4E-740-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	2595.3	2634.8	2707.2	2773.0	2843.2	2915.6	2994.6	3075.8	3113.1	3108.7
5°	2347.4	2433.0	2551.4	2680.9	2825.7	2981.4	3154.7	3332.4	3409.2	3442.1
7.5°	2191.6	2312.3	2468.1	2632.6	2823.5	3045.0	3306.1	3584.7	3696.6	3733.9
10°	2211.4	2351.8	2481.2	2641.4	2845.4	3132.8	3457.5	3788.8	3920.4	3962.1
12.5°	2371.5	2402.3	2437.4	2569.0	2825.7	3198.6	3595.7	3990.6	4142.0	4183.6
15°	2516.3	2373.7	2307.9	2428.6	2755.5	3244.7	3736.1	4207.8	4374.5	4422.8
17.5°	2522.9	2307.9	2160.9	2255.3	2641.4	3264.4	3874.3	4429.4	4611.4	4657.5
20°	2441.7	2235.5	2046.9	2049.0	2485.6	3260.0	3988.4	4629.0	4833.0	4874.7
22.5°	2323.3	2150.0	1954.7	1886.7	2318.9	3251.3	4113.4	4841.8	5063.4	5102.9
25°	2191.6	2040.3	1867.0	1763.8	2152.2	3260.0	4289.0	5120.4	5363.9	5401.2
27.5°	2049.0	1919.6	1798.9	1715.6	2011.7	3293.0	4499.6	5475.8	5765.4	5804.9
30°	1899.9	1803.3	1755.1	1704.6	1924.0	3301.7	4727.7	5890.5	6256.8	6311.7
32.5°	1752.9	1700.2	1702.4	1711.2	1840.6	3240.3	4936.1	6351.2	6840.4	6928.1
35°	1616.9	1601.5	1645.4	1689.3	1720.0	3082.3	5118.2	6895.2	7562.2	7652.1
37.5°	1500.6	1513.7	1568.6	1612.5	1588.3	2858.6	5359.5	7575.3	8369.5	8446.3
40°	1388.7	1421.6	1485.2	1505.0	1487.4	2597.5	5649.1	8231.3	9069.3	9174.6
42.5°	1285.6	1309.7	1399.7	1404.1	1458.9	2332.0	5927.8	8937.7	9874.5	9929.3
45°	1202.2	1197.8	1290.0	1318.5	1496.2	2038.1	6199.8	9878.9	10927.5	11006.5
47.5°	1121.1	1116.7	1138.6	1268.0	1511.6	1766.0	6469.6	11256.6	12454.4	12590.4
50°	1044.3	1050.8	982.8	1243.9	1428.2	1557.6	6592.5	12531.2	13843.1	13900.2
52.5°	976.3	952.1	833.7	1164.9	1250.5	1360.2	6243.7	13110.4	14703.1	14865.4
55°	879.7	745.9	686.7	945.5	987.2	1186.9	5113.8	12774.7	14777.7	15065.1
57.5°	752.5	585.8	583.6	697.6	697.6	1101.3	3275.4	10914.3	12735.2	13239.8
60°	579.2	454.1	482.6	484.8	447.5	802.9	1838.4	7906.6	9416.0	9918.3
62.5°	412.4	346.6	364.2	289.6	256.7	401.5	881.9	4552.2	5811.5	5881.7
65°	276.4	234.7	190.9	160.2	158.0	171.1	364.2	1645.4	2000.8	2257.5
67.5°	182.1	142.6	100.9	100.9	114.1	114.1	138.2	272.0	381.7	348.8
70°	118.5	98.7	63.6	61.4	74.6	74.6	70.2	74.6	79.0	79.0
72.5°	87.8	74.6	37.3	32.9	41.7	43.9	39.5	37.3	37.3	37.3
75°	65.8	52.7	21.9	15.4	19.7	26.3	21.9	15.4	15.4	13.2
77.5°	26.3	19.7	8.8	6.6	11.0	15.4	13.2	6.6	4.4	4.4
80°	2.2	4.4	4.4	4.4	6.6	8.8	11.0	4.4	2.2	2.2
82.5°	0.0	2.2	2.2	2.2	4.4	6.6	8.8	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)