

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: P638864

Luminaire Tested: GWS-SA4F-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 18407 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

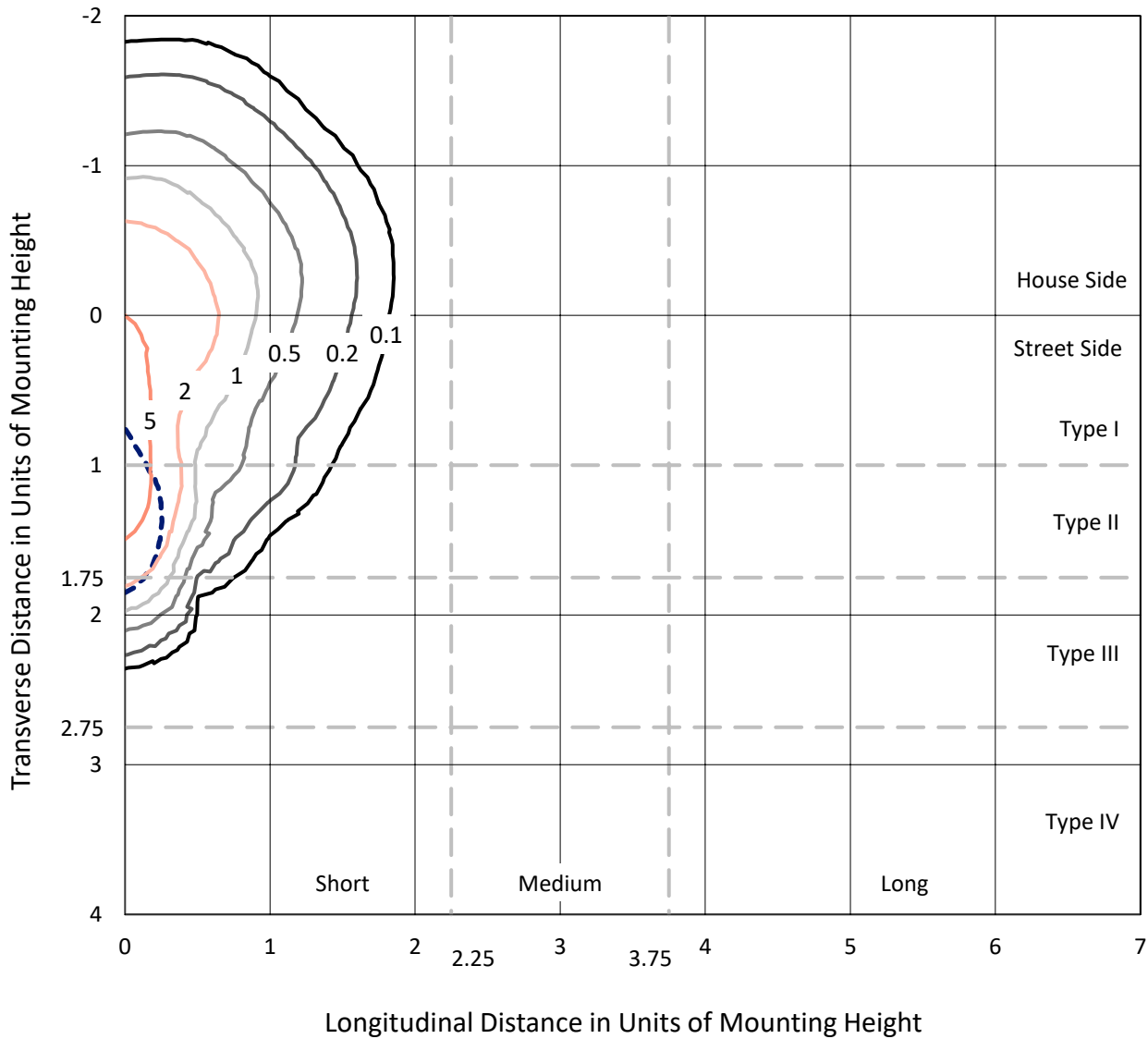
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638864
 CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

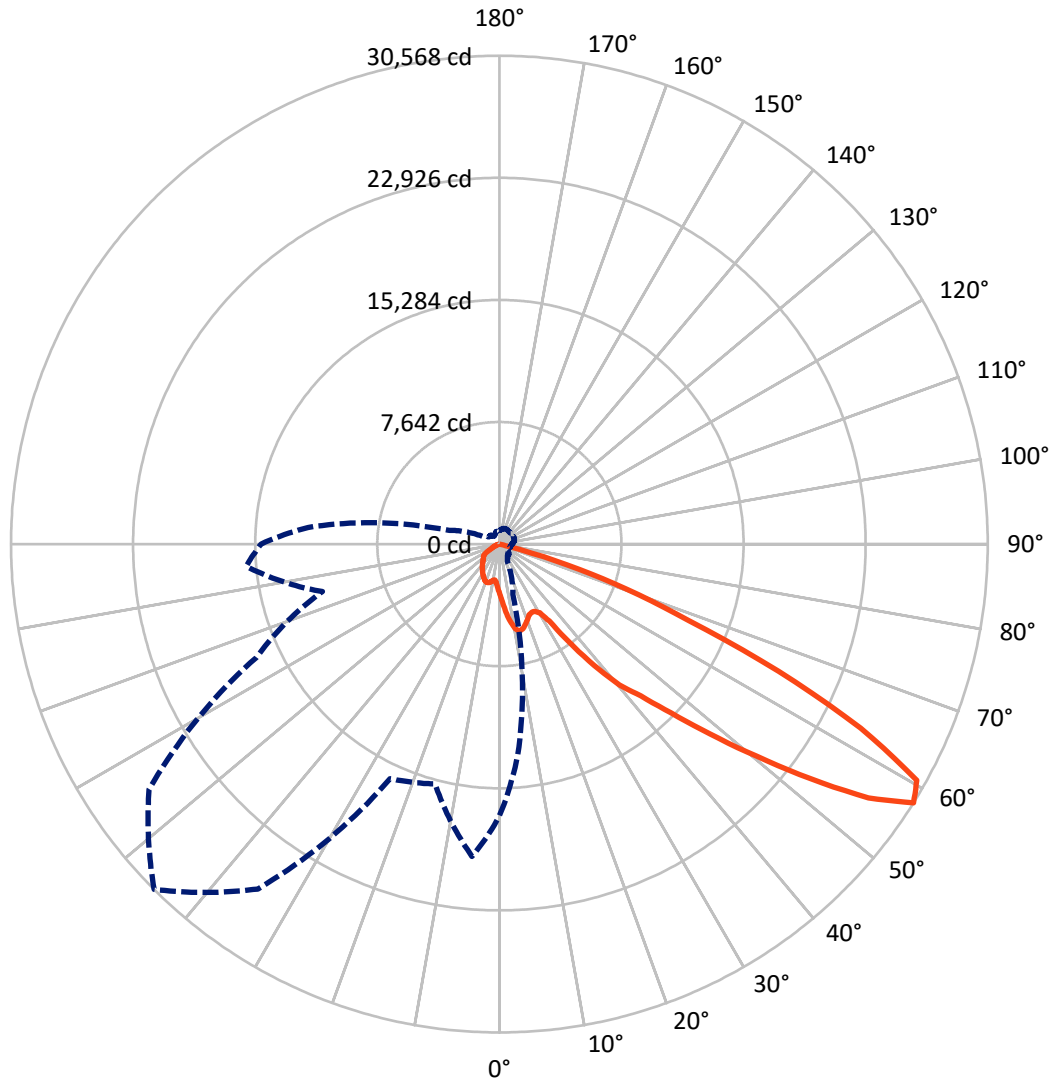
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

REPORT NUMBER: P638864
CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638864

CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

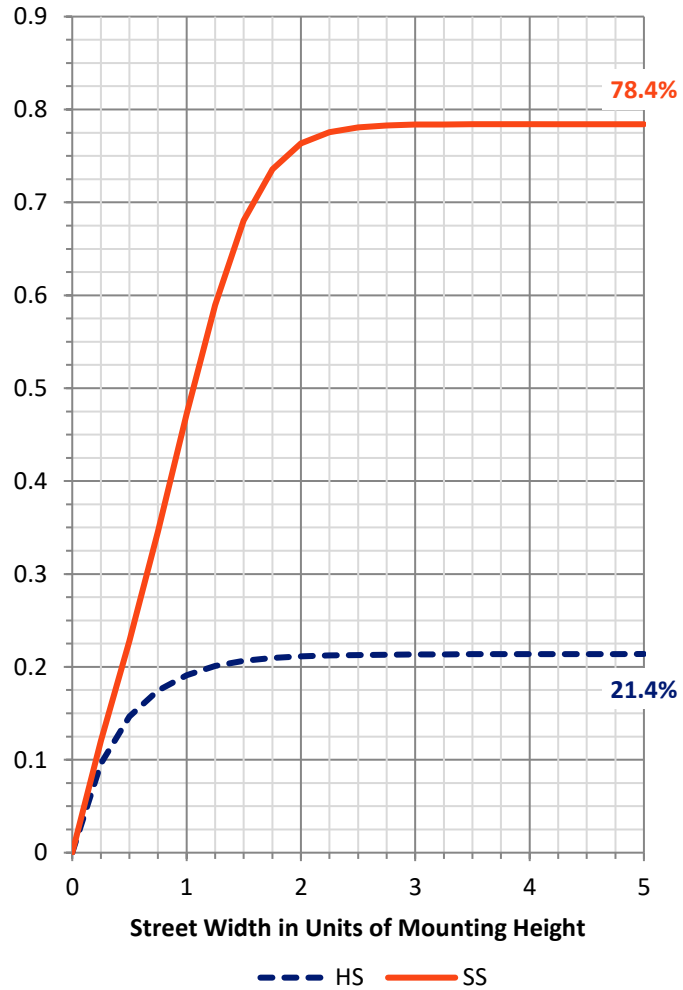
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3965.5	0.0	3965.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	14441.5	0.0	14441.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	18407.0	0.0	18407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	1.7
10°-20°	1017.2	5.5
20°-30°	1650.8	9.0
30°-40°	2533.6	13.8
40°-50°	4046.3	22.0
50°-60°	5665.5	30.8
60°-70°	2904.9	15.8
70°-80°	279.7	1.5
80°-90°	0.0	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°	18407.0	100.0
0°-180°	18407.0	100.0

Coefficient of Utilization



REPORT NUMBER: P638864

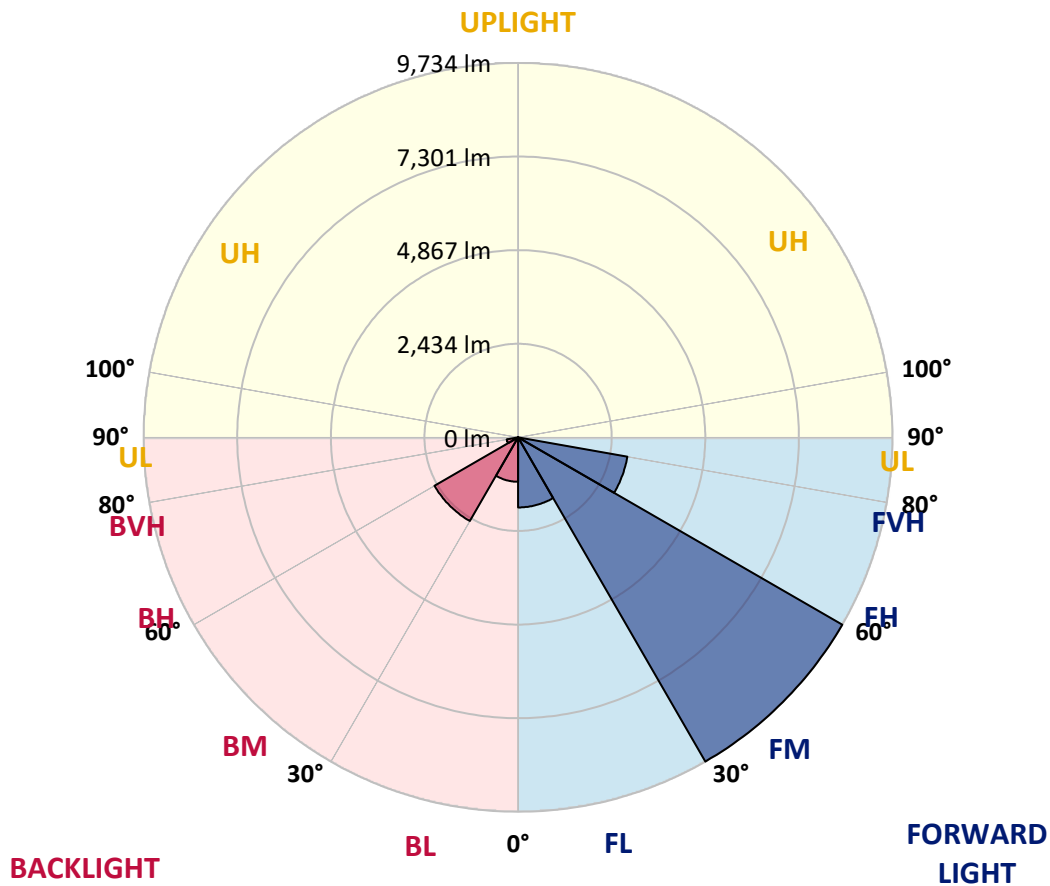
CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.4	9.9			
FM (30°-60°)	9734.1	52.9			
FH (60°-80°)	2885.0	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1154.7	6.3	B3/2500		
BM (30°-60°)	2511.3	13.6	B3/5000		
BH (60°-80°)	299.5	1.6	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: P638864

CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	3474.6	3467.2	3442.6	3358.9	3307.3	3226.1	3167.0	3090.7	3007.0	2955.4	2903.7
5°	3843.7	3824.0	3757.6	3565.6	3418.0	3258.0	3130.1	2989.8	2839.7	2741.3	2650.2
7.5°	4198.1	4168.5	4079.9	3755.1	3531.2	3302.3	3120.2	2916.0	2704.4	2556.7	2443.5
10°	4545.0	4478.6	4338.3	3939.7	3637.0	3361.4	3147.3	2913.5	2665.0	2478.0	2352.5
12.5°	4830.5	4781.3	4589.3	4114.4	3725.6	3373.7	3110.4	2893.9	2726.5	2601.0	2485.4
15°	5076.5	5022.4	4840.3	4271.9	3801.9	3324.5	2955.4	2765.9	2793.0	2842.2	2743.7
17.5°	5302.9	5246.3	5049.5	4402.3	3831.4	3203.9	2738.8	2647.8	2797.9	2982.4	2945.5
20°	5536.7	5472.7	5231.6	4508.1	3821.6	3014.4	2519.8	2546.9	2758.5	2970.1	2989.8
22.5°	5809.8	5743.4	5462.9	4643.4	3814.2	2788.0	2330.3	2458.3	2684.7	2864.3	2898.8
25°	6171.6	6092.8	5785.2	4842.8	3833.9	2581.3	2195.0	2372.2	2559.2	2721.6	2741.3
27.5°	6649.0	6548.1	6156.8	5088.8	3875.7	2418.9	2135.9	2254.1	2399.2	2544.4	2561.6
30°	7271.5	7143.6	6582.5	5302.9	3856.0	2305.7	2096.6	2135.9	2222.1	2340.2	2342.6
32.5°	7999.9	7825.2	7059.9	5487.5	3686.2	2222.1	2042.4	2015.4	2035.0	2126.1	2143.3
35°	8856.3	8629.9	7586.5	5662.2	3376.2	2059.7	1944.0	1852.9	1845.6	1889.9	1931.7
37.5°	9838.1	9567.4	8250.9	5886.1	3009.5	1889.9	1798.8	1707.8	1668.4	1690.5	1754.5
40°	10743.7	10443.5	8944.9	6156.8	2635.5	1737.3	1629.0	1535.5	1488.8	1496.1	1574.9
42.5°	11806.7	11496.7	9793.8	6511.2	2325.4	1633.9	1451.8	1355.9	1294.4	1328.8	1419.9
45°	13421.0	13069.1	11031.6	6818.8	2079.3	1609.3	1296.8	1161.5	1131.9	1191.0	1299.3
47.5°	15625.8	15195.2	12732.0	7005.8	1870.2	1631.5	1188.5	1004.0	1011.4	1077.8	1186.1
50°	17813.4	17348.3	14698.1	6759.7	1697.9	1587.2	1134.4	881.0	927.7	986.8	1085.2
52.5°	19316.9	18711.6	15655.3	6048.5	1540.4	1419.9	1129.5	765.3	853.9	873.6	957.2
55°	19376.0	18630.4	15165.6	4768.9	1326.3	1198.4	1077.8	669.3	772.7	780.1	851.4
57.5°	16984.1	16309.9	13253.6	3275.3	1178.7	878.5	858.8	585.7	634.9	696.4	740.7
60°	12921.4	12348.1	9911.9	1501.1	895.7	558.6	588.1	504.5	474.9	566.0	610.3
62.5°	7913.8	7547.1	5945.2	664.4	570.9	297.8	356.8	401.1	356.8	391.3	428.2
65°	3142.4	2980.0	2256.5	283.0	233.8	150.1	162.4	233.8	251.0	275.6	310.1
67.5°	546.3	516.8	379.0	125.5	96.0	91.0	78.7	108.3	152.6	169.8	196.9
70°	71.4	68.9	61.5	51.7	49.2	44.3	34.5	68.9	103.4	108.3	125.5
72.5°	17.2	14.8	14.8	12.3	14.8	4.9	4.9	36.9	73.8	76.3	88.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	46.8	51.7	61.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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: P638864

CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	2861.9	2812.6	2795.4	2770.8	2738.8	2748.7	2704.4	2689.6	2711.8	2741.3	2733.9
5°	2601.0	2546.9	2510.0	2453.4	2443.5	2421.4	2406.6	2386.9	2411.5	2446.0	2453.4
7.5°	2394.3	2347.6	2310.7	2293.4	2281.1	2271.3	2241.7	2227.0	2227.0	2241.7	2254.1
10°	2305.7	2271.3	2263.9	2268.8	2288.5	2286.0	2259.0	2239.3	2214.7	2202.4	2217.1
12.5°	2428.8	2372.2	2362.3	2364.8	2389.4	2386.9	2357.4	2332.8	2327.9	2332.8	2379.6
15°	2637.9	2551.8	2487.8	2475.5	2487.8	2482.9	2460.8	2446.0	2453.4	2524.7	2603.5
17.5°	2824.9	2692.1	2576.4	2532.1	2529.7	2522.3	2500.1	2495.2	2532.1	2665.0	2780.7
20°	2879.1	2748.7	2583.8	2527.2	2514.9	2507.5	2482.9	2490.3	2537.0	2697.0	2795.4
22.5°	2807.7	2682.2	2510.0	2453.4	2443.5	2441.1	2416.5	2426.3	2465.7	2605.9	2687.1
25°	2672.4	2566.6	2386.9	2337.7	2337.7	2332.8	2310.7	2315.6	2340.2	2463.2	2542.0
27.5°	2507.5	2406.6	2256.5	2207.3	2214.7	2222.1	2195.0	2187.6	2207.3	2323.0	2369.7
30°	2318.0	2246.7	2128.6	2084.3	2081.8	2111.3	2074.4	2064.6	2091.6	2182.7	2192.5
32.5°	2133.5	2099.0	2015.4	1980.9	1983.4	1988.3	1968.6	1968.6	1993.2	2042.4	2040.0
35°	1953.8	1931.7	1916.9	1892.3	1889.9	1880.0	1880.0	1884.9	1912.0	1929.2	1897.2
37.5°	1781.6	1803.7	1821.0	1796.4	1776.7	1776.7	1776.7	1798.8	1823.4	1816.0	1761.9
40°	1629.0	1675.8	1729.9	1702.8	1656.1	1653.6	1663.5	1700.4	1737.3	1693.0	1643.8
42.5°	1498.6	1557.7	1633.9	1619.2	1567.5	1560.1	1567.5	1614.3	1643.8	1587.2	1533.1
45°	1370.6	1444.5	1535.5	1535.5	1478.9	1471.5	1474.0	1535.5	1552.7	1486.3	1417.4
47.5°	1262.4	1343.6	1439.5	1439.5	1392.8	1378.0	1390.3	1454.3	1466.6	1373.1	1309.1
50°	1159.0	1247.6	1353.4	1346.0	1314.0	1301.7	1323.9	1392.8	1378.0	1274.7	1208.2
52.5°	1028.6	1122.1	1267.3	1274.7	1257.4	1259.9	1287.0	1331.3	1289.4	1163.9	1107.3
55°	910.5	1006.4	1151.6	1191.0	1191.0	1188.5	1200.8	1235.3	1200.8	1050.7	981.8
57.5°	782.5	863.7	984.3	994.1	1001.5	974.5	991.7	1038.4	1021.2	893.3	853.9
60°	642.3	711.2	780.1	787.4	755.5	698.9	730.8	785.0	797.3	701.3	657.0
62.5°	455.2	521.7	602.9	602.9	570.9	514.3	556.1	602.9	585.7	487.2	460.2
65°	339.6	401.1	462.6	489.7	462.6	423.3	455.2	489.7	462.6	381.4	342.0
67.5°	219.0	260.8	297.8	319.9	324.8	319.9	334.7	324.8	292.8	238.7	216.5
70°	132.9	155.0	174.7	194.4	209.2	216.5	223.9	201.8	169.8	140.3	132.9
72.5°	96.0	115.7	132.9	147.6	164.9	169.8	169.8	155.0	125.5	98.4	91.0
75°	66.4	83.7	98.4	108.3	123.0	128.0	128.0	115.7	93.5	71.4	64.0
77.5°	2.5	17.2	17.2	14.8	19.7	24.6	24.6	29.5	27.1	19.7	17.2
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: P638864

CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	2748.7	2837.3	2861.9	2952.9	3034.1	3115.3	3213.7	3272.8	3361.4	3422.9	3457.4
5°	2478.0	2551.8	2640.4	2775.7	2916.0	3071.0	3258.0	3420.5	3624.7	3774.8	3824.0
7.5°	2281.1	2377.1	2480.4	2650.2	2842.2	3048.9	3312.2	3577.9	3890.5	4094.7	4225.1
10°	2244.2	2342.6	2480.4	2647.8	2849.6	3085.8	3408.1	3752.7	4143.9	4392.5	4540.1
12.5°	2421.4	2527.2	2586.3	2662.5	2815.1	3078.4	3491.8	3929.8	4390.0	4660.7	4818.2
15°	2682.2	2775.7	2679.8	2583.8	2682.2	2999.7	3538.6	4077.5	4606.5	4919.1	5081.5
17.5°	2861.9	2869.2	2660.1	2455.8	2482.9	2856.9	3555.8	4225.1	4837.8	5165.1	5334.9
20°	2844.6	2785.6	2574.0	2347.6	2263.9	2672.4	3536.1	4355.5	5071.6	5413.7	5581.0
22.5°	2711.8	2642.9	2463.2	2241.7	2079.3	2453.4	3501.7	4473.7	5285.7	5674.5	5832.0
25°	2551.8	2478.0	2330.3	2135.9	1961.2	2241.7	3474.6	4636.1	5556.4	6014.1	6137.1
27.5°	2364.8	2300.8	2175.3	2035.0	1912.0	2081.8	3467.2	4850.2	5883.7	6427.5	6513.6
30°	2182.7	2123.6	2025.2	1944.0	1892.3	1988.3	3442.6	5079.0	6274.9	6902.4	6995.9
32.5°	2008.0	1948.9	1887.4	1875.1	1877.6	1953.8	3358.9	5305.4	6740.0	7591.4	7660.3
35°	1857.9	1789.0	1764.4	1793.9	1848.0	1894.8	3122.7	5492.4	7239.5	8342.0	8398.6
37.5°	1715.1	1646.2	1643.8	1715.1	1774.2	1803.7	2844.6	5677.0	7913.8	9104.8	9176.2
40°	1584.7	1515.8	1540.4	1626.6	1673.3	1688.1	2507.5	5957.5	8627.4	9909.5	9870.1
42.5°	1474.0	1402.6	1417.4	1528.1	1570.0	1609.3	2197.5	6191.3	9314.0	10672.3	10660.0
45°	1365.7	1311.6	1301.7	1422.3	1459.2	1616.7	1971.1	6370.9	10197.4	11644.3	11664.0
47.5°	1259.9	1218.1	1220.5	1272.2	1363.3	1653.6	1779.1	6489.0	11479.4	13184.7	12842.7
50°	1163.9	1131.9	1159.0	1100.0	1301.7	1606.9	1614.3	6464.4	12911.6	14661.2	13974.6
52.5°	1058.1	1050.7	1063.0	920.3	1203.3	1417.4	1459.2	6137.1	13583.4	15670.1	15278.8
55°	949.9	947.4	849.0	735.8	1006.4	1131.9	1250.1	5120.8	13561.2	16206.5	16681.5
57.5°	821.9	802.2	644.7	600.4	782.5	787.4	1139.3	3354.0	12018.3	14922.0	15906.3
60°	622.6	607.8	472.5	487.2	546.3	504.5	908.0	1670.9	8981.8	11624.6	12734.4
62.5°	430.6	410.9	351.9	376.5	351.9	287.9	556.1	826.8	5440.7	7340.4	8346.9
65°	315.0	292.8	241.2	206.7	164.9	164.9	211.6	317.4	2106.4	3120.2	3762.5
67.5°	194.4	184.6	142.7	103.4	100.9	108.3	110.7	157.5	339.6	541.4	661.9
70°	125.5	115.7	96.0	66.4	61.5	64.0	66.4	73.8	86.1	93.5	113.2
72.5°	86.1	81.2	68.9	36.9	29.5	32.0	34.5	34.5	41.8	39.4	46.8
75°	61.5	56.6	49.2	17.2	9.8	12.3	14.8	12.3	14.8	9.8	12.3
77.5°	17.2	17.2	12.3	2.5	0.0	2.5	4.9	4.9	2.5	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	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: P638864

CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	3546.0	3602.5	3624.7	3592.7	3619.8	3575.5	3558.3	3491.8	3486.9	3474.6
5°	4023.3	4151.3	4227.6	4274.3	4220.2	4161.1	4072.6	3920.0	3873.2	3843.7
7.5°	4493.3	4692.7	4823.1	4884.6	4869.8	4749.3	4589.3	4333.4	4242.3	4198.1
10°	4901.8	5145.4	5302.9	5379.2	5347.2	5241.4	5012.6	4692.7	4572.1	4545.0
12.5°	5187.3	5411.2	5519.5	5585.9	5588.4	5546.5	5330.0	5007.6	4864.9	4830.5
15°	5366.9	5462.9	5465.3	5504.7	5573.6	5667.1	5566.2	5280.8	5128.2	5076.5
17.5°	5480.1	5374.3	5266.0	5275.9	5389.1	5637.6	5740.9	5521.9	5359.5	5302.9
20°	5561.3	5226.6	5024.9	5027.3	5143.0	5519.5	5861.5	5755.7	5588.4	5536.7
22.5°	5613.0	5096.2	4808.3	4800.9	4924.0	5379.2	5972.3	6033.8	5868.9	5809.8
25°	5718.8	5034.7	4677.9	4719.7	4828.0	5334.9	6122.4	6402.9	6250.3	6171.6
27.5°	5908.3	5096.2	4665.6	4761.6	4884.6	5465.3	6383.2	6895.0	6737.6	6649.0
30°	6235.6	5327.5	4855.1	4988.0	5135.6	5807.4	6821.2	7581.6	7355.2	7271.5
32.5°	6762.2	5807.4	5440.7	5726.2	5868.9	6368.4	7478.2	8351.8	8167.3	7999.9
35°	7488.1	6902.4	6860.6	7525.0	7490.5	7431.5	8285.4	9296.7	9018.7	8856.3
37.5°	8487.2	8664.3	8974.4	9633.9	9611.7	9161.4	9346.0	10190.0	10047.3	9838.1
40°	9734.8	10111.3	10637.9	11582.8	11287.5	10721.5	10647.7	11105.4	10989.7	10743.7
42.5°	10470.5	11120.2	12124.1	12973.1	12736.9	11747.7	11664.0	12328.4	12074.9	11806.7
45°	10812.6	11942.1	13910.7	15059.8	14343.8	12429.3	12397.3	13923.0	13780.2	13421.0
47.5°	10970.1	12771.3	16002.3	17742.1	16403.4	13027.2	12911.6	16236.1	16049.1	15625.8
50°	11144.8	13915.6	18522.1	20850.0	18891.2	13704.0	13787.6	18391.7	18313.0	17813.4
52.5°	11528.6	15126.3	21625.1	24403.3	21908.1	14764.5	15291.1	20424.3	19892.8	19316.9
55°	12104.5	16445.2	24853.6	28032.9	24986.5	16189.3	16917.7	21504.6	20013.3	19376.0
57.5°	11467.1	16775.0	26765.7	30567.5	26352.2	16194.2	15542.1	19631.9	17601.8	16984.1
60°	9099.9	15606.1	26029.9	30018.8	25188.3	14380.7	11900.2	15328.1	13334.8	12921.4
62.5°	6151.9	13088.8	22914.6	25387.6	21558.7	11312.1	7734.2	9968.5	8255.8	7913.8
65°	3371.2	9764.3	18514.7	19206.2	16873.4	7901.5	3979.0	4326.0	3295.0	3142.4
67.5°	930.2	6796.6	13622.8	12741.8	11838.7	5145.4	1028.6	772.7	551.2	546.3
70°	233.8	4495.8	8162.3	8413.3	7259.2	3295.0	196.9	93.5	73.8	71.4
72.5°	98.4	1934.2	3873.2	4451.5	3715.7	1525.7	71.4	27.1	22.1	17.2
75°	12.3	155.0	329.7	499.5	342.0	164.9	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)