

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: P638040

Luminaire Tested: GWS-SA4E-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17546 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

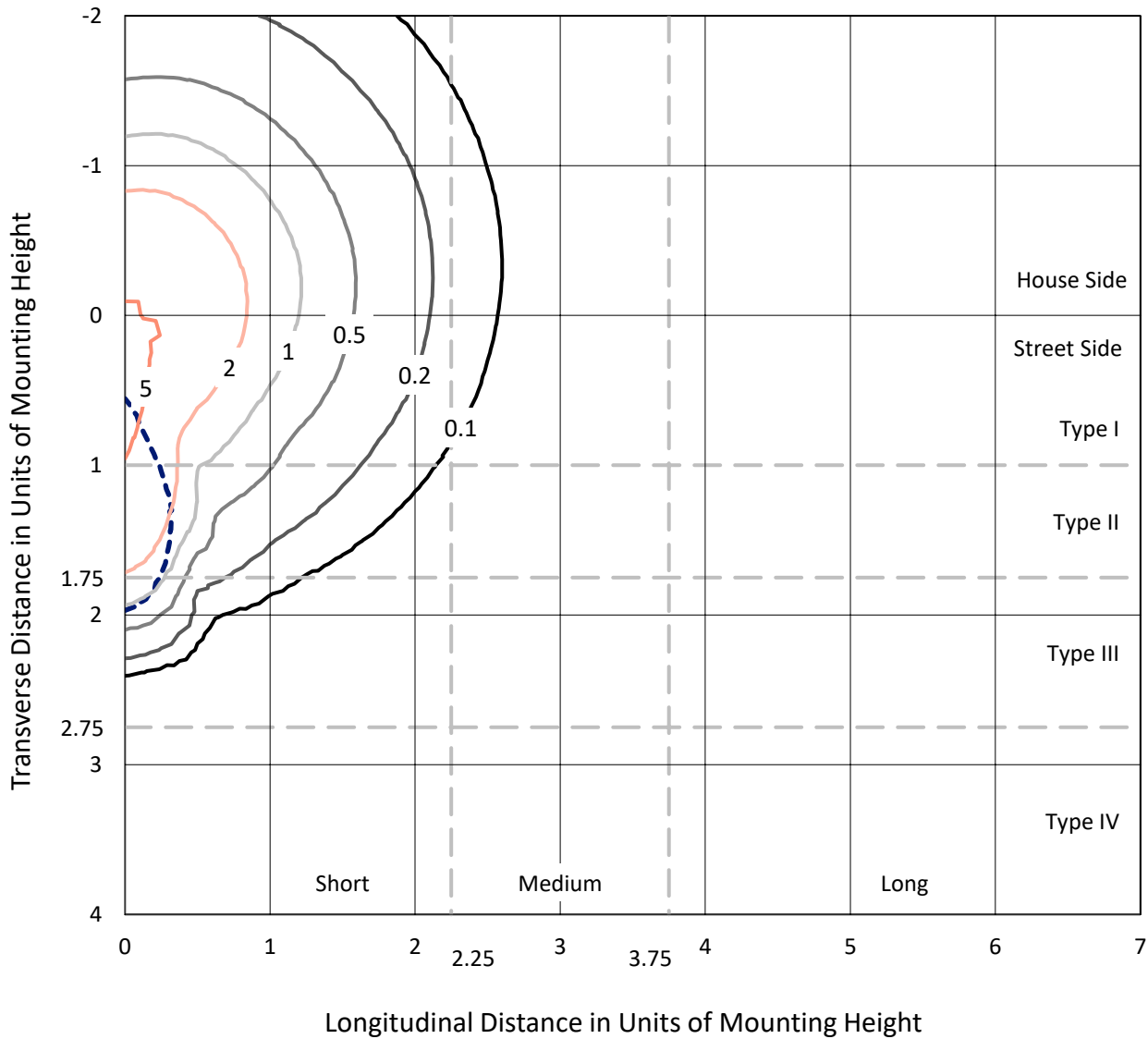
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638040
 CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

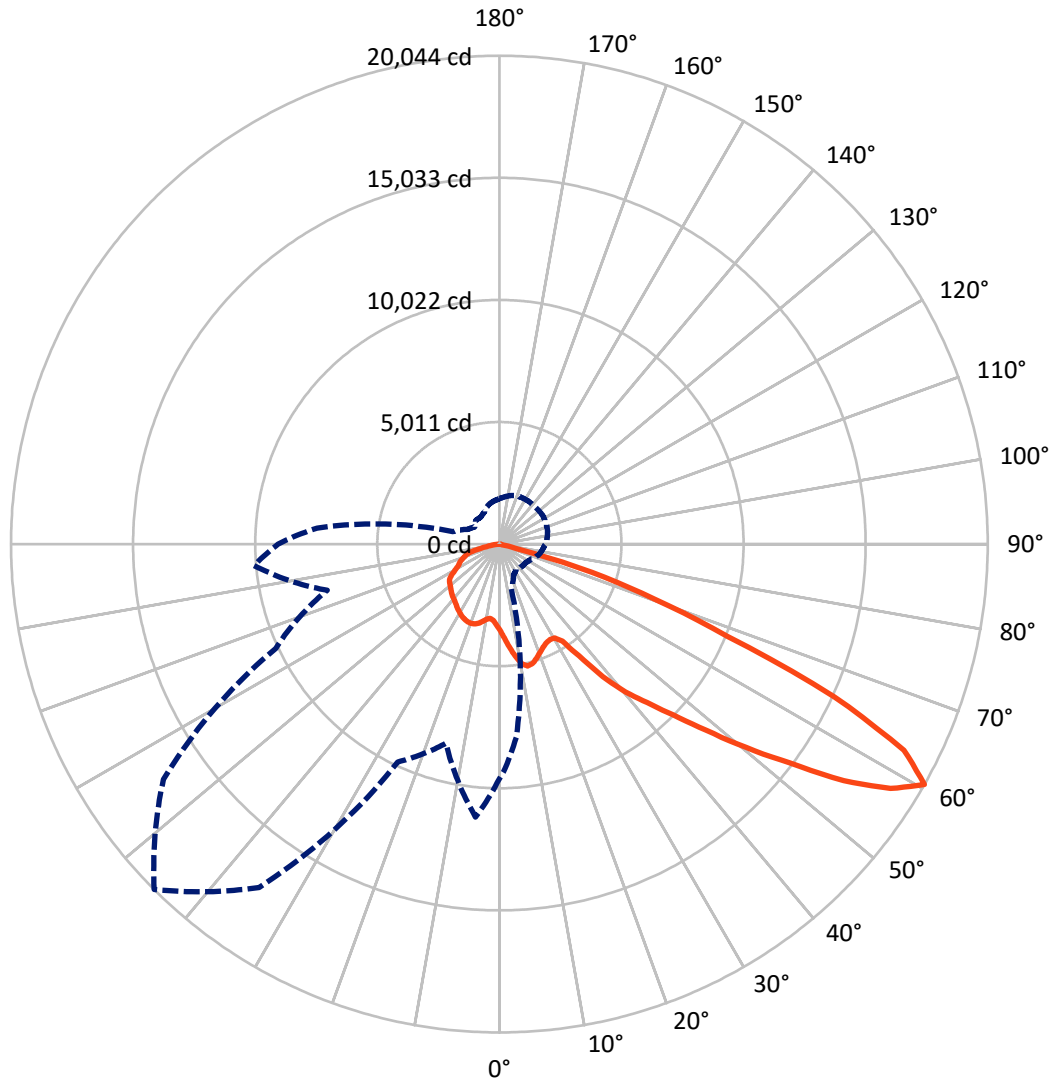
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P638040
CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P638040
 CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

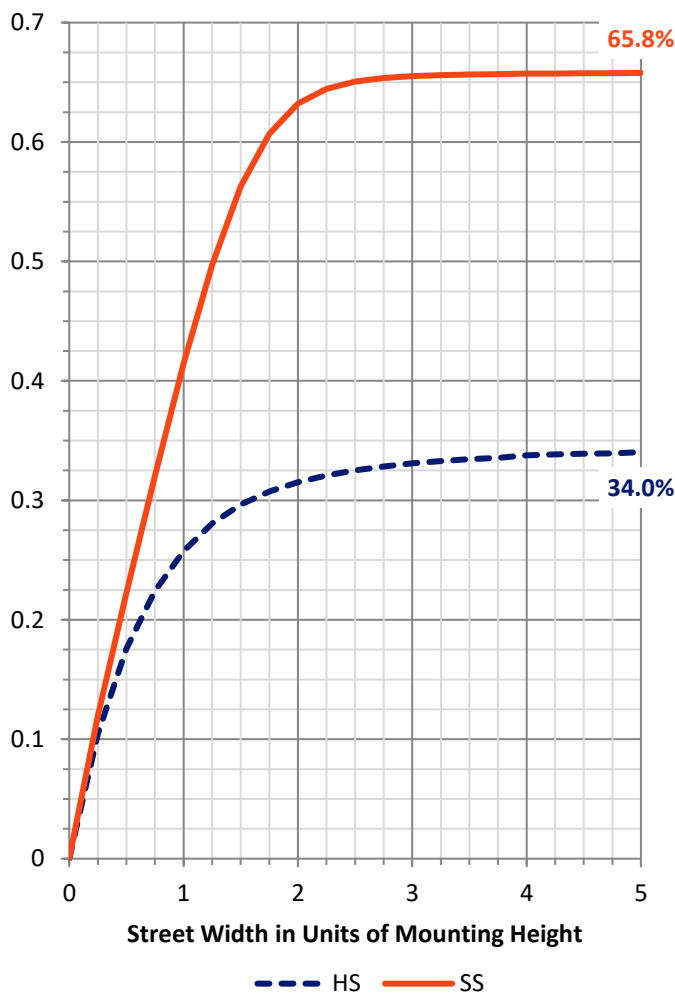
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6002.3	0.0	6002.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	11543.7	0.0	11543.7
	% Fixture	65.8	0.0	65.8
Total	Lumens	17546.0	0.0	17546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	2.0
10°-20°	1109.0	6.3
20°-30°	1806.1	10.3
30°-40°	2537.1	14.5
40°-50°	3471.8	19.8
50°-60°	4454.1	25.4
60°-70°	2999.2	17.1
70°-80°	749.8	4.3
80°-90°	73.1	0.4
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°	17546.0	100.0
0°-180°	17546.0	100.0

Coefficient of Utilization



REPORT NUMBER: P638040

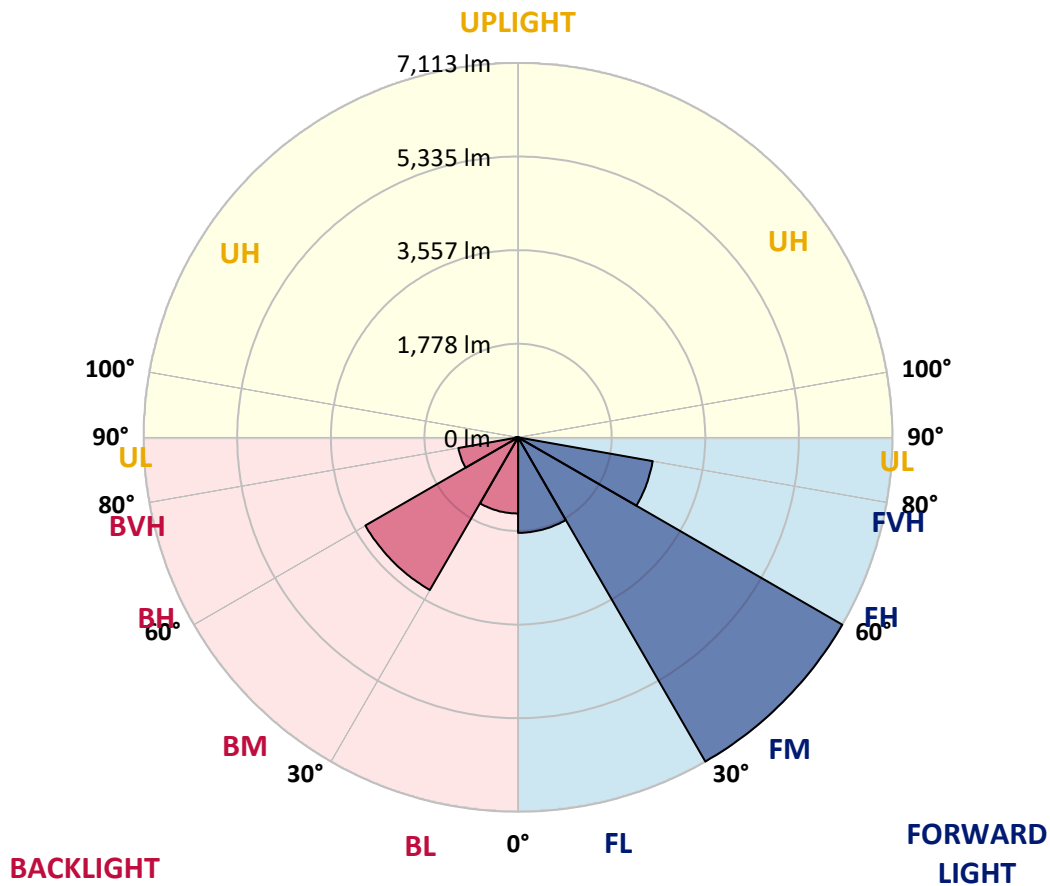
CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1813.9	10.3			
FM (30°-60°)	7113.3	40.5			
FH (60°-80°)	2597.5	14.8			G2/5000
FVH (80°-90°)	19.0	0.1			G1/100
BL (0°-30°)	1446.9	8.2	B3/2500		
BM (30°-60°)	3349.8	19.1	B3/5000		
BH (60°-80°)	1151.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	54.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P638040

CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8
2.5°	3744.1	3736.0	3727.9	3664.9	3648.7	3603.5	3571.2	3530.8	3472.6	3440.3	3412.8
5°	3978.4	3965.4	3921.8	3792.5	3708.5	3616.4	3540.5	3456.4	3367.6	3309.4	3264.1
7.5°	4199.7	4196.5	4122.2	3908.9	3773.1	3640.6	3537.2	3414.4	3286.8	3199.5	3141.3
10°	4405.0	4380.7	4291.9	4013.9	3836.2	3684.3	3572.8	3437.0	3288.4	3170.4	3092.9
12.5°	4586.0	4555.2	4432.4	4110.9	3891.1	3703.7	3582.5	3471.0	3372.4	3273.8	3185.0
15°	4734.6	4697.4	4573.0	4201.4	3939.6	3692.4	3522.7	3435.4	3469.4	3513.0	3414.4
17.5°	4873.6	4834.8	4682.9	4267.6	3954.1	3622.9	3375.6	3338.5	3509.8	3708.5	3663.3
20°	4989.9	4946.3	4770.2	4299.9	3928.3	3490.4	3185.0	3249.6	3475.8	3713.4	3786.1
22.5°	5116.0	5080.4	4868.7	4346.8	3896.0	3307.8	3025.0	3183.3	3417.6	3626.1	3736.0
25°	5318.0	5274.3	5022.2	4429.2	3879.8	3136.5	2910.3	3118.7	3336.9	3525.9	3611.6
27.5°	5610.4	5529.6	5232.3	4573.0	3897.6	2974.9	2837.5	3039.5	3243.1	3404.7	3474.2
30°	5928.8	5831.8	5465.0	4721.7	3923.4	2876.3	2798.8	2949.0	3099.3	3260.9	3336.9
32.5°	6305.3	6219.6	5713.9	4833.2	3868.5	2831.1	2769.7	2850.5	2970.0	3099.3	3162.3
35°	6754.5	6601.0	5985.3	4923.7	3690.7	2764.8	2743.8	2742.2	2805.2	2931.3	3002.4
37.5°	7237.7	7072.8	6319.8	5020.6	3414.4	2659.8	2682.4	2614.5	2672.7	2772.9	2853.7
40°	7633.6	7460.7	6657.5	5153.1	3068.6	2495.0	2546.7	2474.0	2509.5	2612.9	2703.4
42.5°	8021.4	7837.2	6972.6	5303.4	2734.1	2333.4	2359.2	2331.8	2343.1	2451.3	2577.4
45°	8530.4	8323.5	7360.5	5410.1	2433.6	2205.7	2181.5	2134.6	2194.4	2335.0	2469.1
47.5°	9380.4	9133.1	7995.5	5479.5	2215.4	2133.0	2021.5	1994.0	2068.4	2225.1	2364.1
50°	10374.1	10160.8	9010.3	5476.3	2052.2	2071.6	1866.4	1842.1	1964.9	2123.3	2270.4
52.5°	11188.6	10972.0	9878.1	5314.7	1918.1	1940.7	1775.9	1708.0	1876.1	2023.1	2170.2
55°	11846.2	11602.2	10277.2	4639.3	1748.4	1732.3	1677.3	1552.9	1764.6	1922.9	2060.3
57.5°	11492.3	11201.5	9794.0	3527.5	1573.9	1472.1	1507.6	1415.5	1612.7	1811.4	1943.9
60°	9635.7	9373.9	7956.7	1877.7	1384.8	1229.7	1304.0	1318.6	1446.2	1677.3	1813.1
62.5°	6618.8	6428.1	5392.3	1139.2	1092.4	987.3	1103.7	1208.7	1304.0	1499.6	1617.5
65°	3238.3	3181.7	2697.0	730.4	764.3	798.3	914.6	1042.3	1182.8	1354.1	1478.6
67.5°	892.0	898.4	817.7	570.4	602.7	696.5	788.6	890.4	1031.0	1189.3	1315.4
70°	392.7	399.1	412.1	439.5	500.9	586.6	681.9	786.9	916.2	1048.7	1169.9
72.5°	273.1	279.6	298.9	334.5	389.4	470.2	560.7	660.9	795.0	906.5	1006.7
75°	168.1	172.9	190.7	221.4	258.5	320.0	408.8	500.9	618.9	720.7	809.6
77.5°	88.9	85.6	97.0	118.0	150.3	182.6	242.4	300.6	384.6	467.0	541.3
80°	48.5	46.9	53.3	64.6	74.3	100.2	140.6	179.4	227.8	274.7	315.1
82.5°	21.0	19.4	21.0	27.5	33.9	48.5	71.1	98.6	126.0	158.4	184.2
85°	0.0	0.0	0.0	1.6	8.1	12.9	24.2	35.6	51.7	71.1	87.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	14.5
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: P638040

CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8
2.5°	3396.6	3356.2	3353.0	3320.7	3323.9	3325.5	3293.2	3280.3	3291.6	3304.5	3298.1
5°	3248.0	3206.0	3188.2	3157.5	3154.3	3139.7	3126.8	3110.6	3121.9	3133.2	3139.7
7.5°	3118.7	3091.2	3079.9	3071.8	3075.1	3068.6	3042.8	3028.2	3026.6	3031.4	3037.9
10°	3076.7	3054.1	3068.6	3091.2	3107.4	3118.7	3091.2	3067.0	3044.4	3034.7	3034.7
12.5°	3167.2	3138.1	3167.2	3191.4	3223.7	3231.8	3201.1	3175.3	3167.2	3176.9	3196.3
15°	3367.6	3299.7	3298.1	3312.6	3338.5	3351.4	3322.3	3309.4	3309.4	3370.8	3419.3
17.5°	3567.9	3456.4	3409.6	3401.5	3417.6	3422.5	3398.3	3386.9	3416.0	3535.6	3626.1
20°	3708.5	3572.8	3471.0	3451.6	3456.4	3458.0	3438.7	3430.6	3472.6	3618.0	3694.0
22.5°	3694.0	3593.8	3469.4	3445.1	3453.2	3450.0	3432.2	3429.0	3462.9	3588.9	3624.5
25°	3593.8	3516.2	3411.2	3395.0	3408.0	3406.3	3388.6	3380.5	3395.0	3479.1	3482.3
27.5°	3479.1	3411.2	3320.7	3315.8	3336.9	3348.2	3317.5	3293.2	3288.4	3344.9	3332.0
30°	3341.7	3291.6	3218.9	3222.1	3260.9	3267.4	3230.2	3194.7	3185.0	3215.7	3197.9
32.5°	3178.5	3162.3	3123.6	3131.6	3168.8	3181.7	3142.9	3105.8	3094.5	3104.2	3067.0
35°	3039.5	3033.1	3036.3	3050.8	3083.2	3092.9	3060.5	3031.4	3015.3	2981.4	2932.9
37.5°	2895.7	2913.5	2960.3	2987.8	3005.6	3002.4	2984.6	2963.6	2937.7	2874.7	2814.9
40°	2761.6	2806.8	2890.9	2921.6	2928.0	2929.6	2916.7	2898.9	2866.6	2782.6	2714.7
42.5°	2658.2	2708.3	2819.8	2866.6	2869.9	2873.1	2860.2	2845.6	2800.4	2688.9	2622.6
45°	2549.9	2616.2	2747.0	2803.6	2800.4	2798.8	2787.4	2781.0	2727.7	2598.4	2525.7
47.5°	2457.8	2535.4	2675.9	2724.4	2722.8	2721.2	2713.1	2713.1	2659.8	2519.2	2436.8
50°	2367.3	2456.2	2603.2	2643.6	2646.9	2643.6	2640.4	2645.2	2582.2	2431.9	2351.1
52.5°	2268.7	2368.9	2522.4	2559.6	2579.0	2587.1	2587.1	2575.8	2501.4	2344.7	2255.8
55°	2160.5	2255.8	2433.6	2483.7	2499.8	2514.4	2514.4	2491.7	2422.2	2263.9	2168.6
57.5°	2026.4	2110.4	2251.0	2301.1	2339.8	2349.5	2349.5	2312.4	2255.8	2103.9	2026.4
60°	1880.9	1953.6	2049.0	2102.3	2131.4	2112.0	2126.5	2116.8	2071.6	1931.0	1866.4
62.5°	1687.0	1761.3	1866.4	1921.3	1934.2	1914.9	1934.2	1932.6	1871.2	1745.2	1667.6
65°	1548.0	1620.8	1724.2	1795.3	1816.3	1811.4	1824.4	1805.0	1729.0	1609.4	1535.1
67.5°	1383.2	1460.8	1580.4	1659.5	1703.2	1708.0	1725.8	1685.4	1607.8	1476.9	1383.2
70°	1226.5	1292.7	1384.8	1459.2	1520.6	1551.3	1554.5	1496.3	1399.4	1291.1	1223.2
72.5°	1061.7	1129.5	1241.0	1321.8	1399.4	1434.9	1434.9	1363.8	1258.8	1139.2	1066.5
75°	861.3	924.3	1026.1	1113.4	1202.2	1247.5	1245.9	1184.5	1068.1	955.0	879.1
77.5°	583.3	630.2	694.8	761.1	774.0	809.6	827.3	749.8	685.1	623.7	555.9
80°	339.3	368.4	404.0	441.1	449.2	460.5	431.4	402.4	368.4	328.0	297.3
82.5°	198.8	218.1	235.9	265.0	269.9	273.1	247.2	234.3	206.8	182.6	163.2
85°	97.0	103.4	119.6	134.1	127.7	124.4	113.1	100.2	88.9	79.2	69.5
87.5°	19.4	19.4	29.1	27.5	22.6	19.4	11.3	14.5	3.2	3.2	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: P638040

CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8
2.5°	3319.1	3346.5	3380.5	3425.7	3477.4	3532.4	3585.7	3626.1	3666.5	3726.3	3716.6
5°	3149.4	3196.3	3249.6	3319.1	3403.1	3498.4	3605.1	3711.7	3826.5	3923.4	3965.4
7.5°	3050.8	3102.5	3165.6	3256.1	3364.3	3480.7	3630.9	3803.9	3989.7	4117.3	4196.5
10°	3050.8	3117.1	3199.5	3286.8	3382.1	3501.7	3687.5	3904.0	4143.2	4311.2	4403.4
12.5°	3227.0	3293.2	3311.0	3307.8	3361.1	3493.6	3732.8	4009.1	4295.1	4472.8	4586.0
15°	3501.7	3524.3	3390.2	3267.4	3275.4	3435.4	3753.8	4093.1	4426.0	4639.3	4762.1
17.5°	3685.9	3626.1	3386.9	3172.0	3126.8	3336.9	3753.8	4173.9	4564.9	4805.7	4920.4
20°	3700.4	3551.8	3304.5	3079.9	2963.6	3206.0	3727.9	4235.3	4699.1	4965.7	5088.5
22.5°	3572.8	3425.7	3217.3	3000.7	2829.5	3047.6	3685.9	4282.2	4813.8	5116.0	5267.9
25°	3427.3	3304.5	3128.4	2919.9	2737.4	2887.6	3647.1	4361.3	4973.8	5319.6	5473.1
27.5°	3285.1	3181.7	3021.8	2852.1	2685.6	2748.7	3622.9	4477.7	5164.4	5608.8	5741.3
30°	3146.2	3052.5	2907.0	2787.4	2658.2	2658.2	3601.9	4611.8	5416.5	5933.6	6066.1
32.5°	3005.6	2916.7	2798.8	2724.4	2642.0	2622.6	3543.7	4737.8	5676.7	6289.1	6424.9
35°	2874.7	2785.8	2695.3	2664.6	2633.9	2595.2	3399.9	4836.4	5930.4	6704.4	6820.8
37.5°	2751.9	2666.3	2598.4	2590.3	2593.5	2520.8	3173.6	4918.8	6247.1	7129.4	7190.8
40°	2645.2	2549.9	2496.6	2495.0	2511.1	2401.2	2887.6	5036.8	6609.1	7489.7	7463.9
42.5°	2549.9	2449.7	2385.1	2399.6	2389.9	2281.7	2608.1	5145.1	6924.2	7827.5	7775.8
45°	2456.2	2359.2	2268.7	2289.7	2278.4	2207.3	2370.5	5224.2	7273.2	8233.1	8239.5
47.5°	2365.7	2270.4	2179.9	2154.0	2152.4	2184.7	2187.9	5250.1	7842.0	8885.9	8738.8
50°	2281.7	2186.3	2092.6	2005.3	2039.3	2139.5	2052.2	5230.7	8693.6	9606.6	9196.1
52.5°	2194.4	2103.9	2000.5	1843.8	1932.6	2031.2	1931.0	5161.2	9213.9	10243.3	9997.6
55°	2094.2	2008.6	1868.0	1677.3	1785.6	1806.6	1806.6	4489.0	9435.3	10873.5	11025.4
57.5°	1960.1	1847.0	1624.0	1470.5	1567.4	1486.6	1674.1	3141.3	9070.1	10674.7	11264.5
60°	1808.2	1687.0	1451.1	1341.2	1370.3	1228.1	1426.8	1969.8	7517.2	9083.0	10104.3
62.5°	1607.8	1496.3	1300.8	1215.2	1155.4	1001.9	1148.9	1245.9	5153.1	6744.8	7441.3
65°	1473.7	1350.9	1176.4	1063.3	940.5	806.3	762.7	817.7	2771.3	3774.8	4245.0
67.5°	1315.4	1194.2	1029.3	887.1	788.6	691.6	615.7	596.3	950.2	1257.2	1360.6
70°	1165.1	1048.7	911.4	778.9	680.3	585.0	510.6	457.3	439.5	436.3	429.8
72.5°	1011.6	903.3	788.6	665.8	557.5	470.2	404.0	342.6	316.7	308.6	300.6
75°	829.0	743.3	628.6	496.1	408.8	328.0	276.3	235.9	213.3	205.2	195.5
77.5°	533.3	494.5	394.3	320.0	247.2	195.5	168.1	142.2	127.7	124.4	116.3
80°	284.4	265.0	218.1	184.2	147.0	119.6	105.0	90.5	82.4	79.2	75.9
82.5°	158.4	143.8	121.2	106.7	85.6	72.7	64.6	58.2	53.3	51.7	50.1
85°	71.1	61.4	48.5	45.2	40.4	37.2	35.6	32.3	30.7	29.1	27.5
87.5°	3.2	6.5	8.1	6.5	6.5	9.7	11.3	11.3	9.7	9.7	8.1
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: P638040

CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8
2.5°	3776.4	3824.9	3829.7	3845.9	3824.9	3820.0	3786.1	3766.7	3748.9	3744.1
5°	4070.5	4167.4	4206.2	4233.7	4207.8	4194.9	4120.6	4043.0	3999.4	3978.4
7.5°	4372.7	4518.1	4594.0	4628.0	4631.2	4573.0	4445.4	4299.9	4227.2	4199.7
10°	4642.5	4821.9	4922.1	4986.7	4964.1	4893.0	4718.5	4521.3	4429.2	4405.0
12.5°	4842.9	5014.2	5091.7	5133.7	5132.1	5093.3	4928.5	4715.2	4610.2	4586.0
15°	4972.2	5074.0	5078.8	5088.5	5116.0	5167.7	5082.0	4884.9	4768.5	4734.6
17.5°	5074.0	5033.6	4957.6	4931.8	4993.2	5137.0	5188.7	5028.7	4902.7	4873.6
20°	5138.6	4935.0	4800.9	4750.8	4821.9	5056.2	5253.3	5158.0	5027.1	4989.9
22.5°	5188.7	4842.9	4626.3	4592.4	4666.7	4968.9	5319.6	5311.5	5167.7	5116.0
25°	5267.9	4781.5	4503.5	4479.3	4548.8	4926.9	5408.4	5519.9	5392.3	5318.0
27.5°	5392.3	4775.0	4440.5	4432.4	4527.8	4964.1	5536.1	5825.4	5665.4	5610.4
30°	5565.2	4836.4	4455.1	4471.2	4587.6	5098.2	5734.9	6174.4	6014.4	5928.8
32.5°	5814.0	5001.2	4676.4	4745.9	4831.6	5313.1	6025.7	6552.5	6431.3	6305.3
35°	6142.1	5453.7	5330.9	5626.6	5545.8	5783.3	6376.4	7011.4	6864.4	6754.5
37.5°	6580.0	6381.2	6494.3	6901.5	6706.0	6672.1	6804.6	7428.3	7347.5	7237.7
40°	7194.0	7234.4	7442.9	7977.7	7695.0	7476.8	7329.8	7741.8	7769.3	7633.6
42.5°	7601.2	7787.1	8289.6	8897.2	8507.8	7985.8	7769.3	8142.6	8144.2	8021.4
45°	7753.1	8239.5	9289.9	9989.6	9338.3	8276.7	8011.7	8687.1	8671.0	8530.4
47.5°	7698.2	8620.9	10328.9	11398.6	10404.8	8483.5	7977.7	9462.8	9593.7	9380.4
50°	7583.5	9003.8	11542.4	13124.4	11713.7	8703.3	7926.0	10322.4	10539.0	10374.1
52.5°	7699.8	9430.4	12977.4	14908.4	13355.5	9053.9	8275.1	11426.1	11387.3	11188.6
55°	8068.2	9934.6	14720.9	17149.6	15158.8	9647.0	9171.9	12478.1	12083.8	11846.2
57.5°	8050.5	10295.0	16249.6	18922.3	16727.9	10133.4	9483.8	12589.6	11792.9	11492.3
60°	7307.1	10130.1	16831.3	20043.7	17201.4	9865.1	8457.7	11245.1	9950.8	9635.7
62.5°	5453.7	8989.3	15703.4	18639.5	15861.8	8520.7	6360.2	8071.5	7150.4	6618.8
65°	3488.7	7032.4	13202.0	15100.7	13074.3	6517.0	3787.7	4327.4	3390.2	3238.3
67.5°	1485.0	4964.1	10262.6	10093.0	9781.1	4222.4	1462.4	1218.4	908.1	892.0
70°	491.2	3377.3	6326.3	6731.9	5841.5	2908.6	483.2	408.8	407.2	392.7
72.5°	321.6	1813.1	3561.5	3965.4	3758.6	1674.1	292.5	273.1	279.6	273.1
75°	192.3	394.3	599.5	778.9	599.5	281.2	176.1	172.9	176.1	168.1
77.5°	113.1	109.9	106.7	106.7	105.0	97.0	88.9	85.6	87.3	88.9
80°	72.7	69.5	66.3	64.6	56.6	53.3	50.1	46.9	46.9	48.5
82.5°	46.9	43.6	40.4	35.6	29.1	24.2	22.6	19.4	19.4	21.0
85°	24.2	19.4	14.5	11.3	6.5	3.2	0.0	0.0	0.0	0.0
87.5°	4.8	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)