

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: P638535

Luminaire Tested: GWS-SA4F-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638535
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-SA4F-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: 19508 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

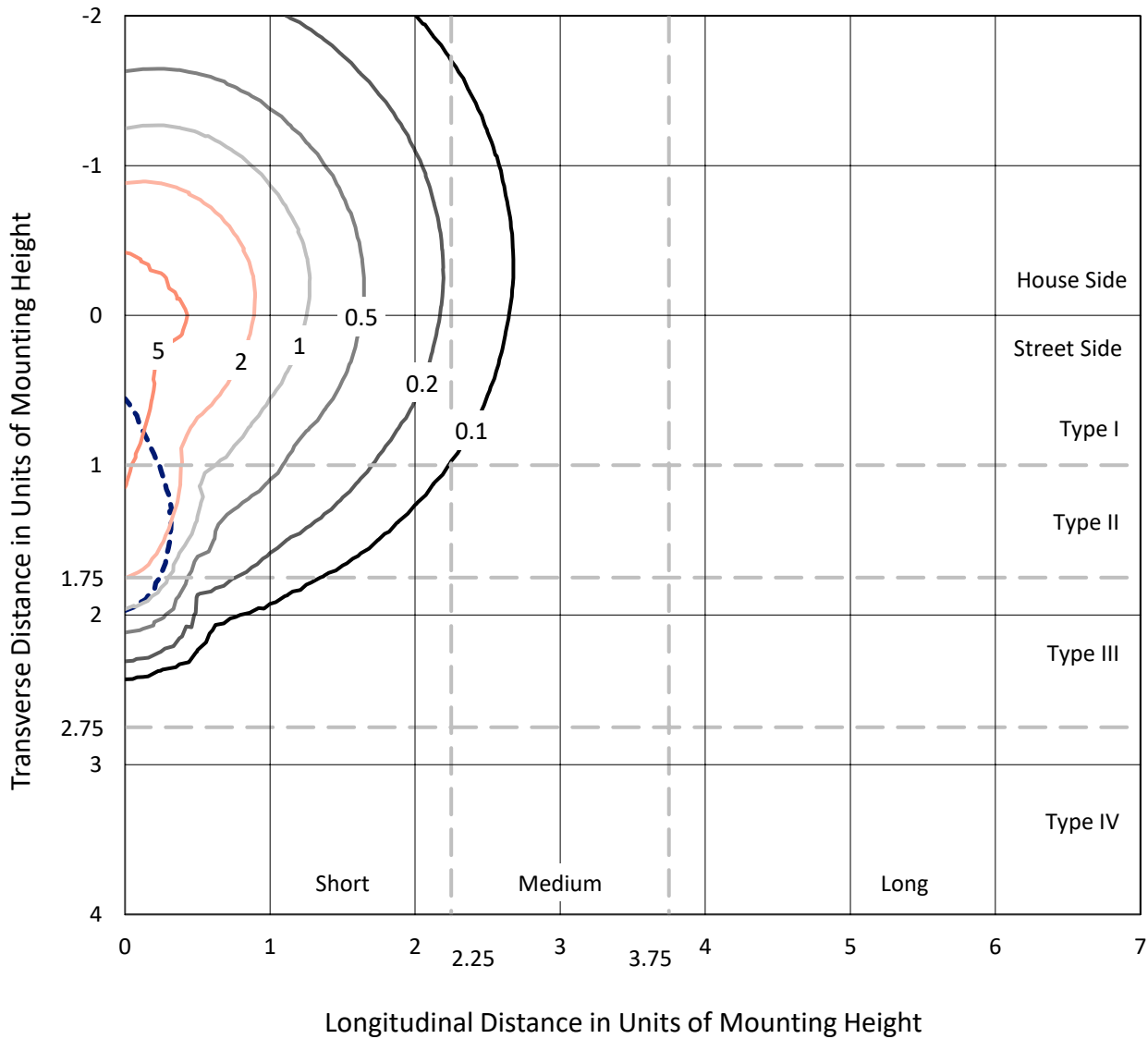
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638535
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

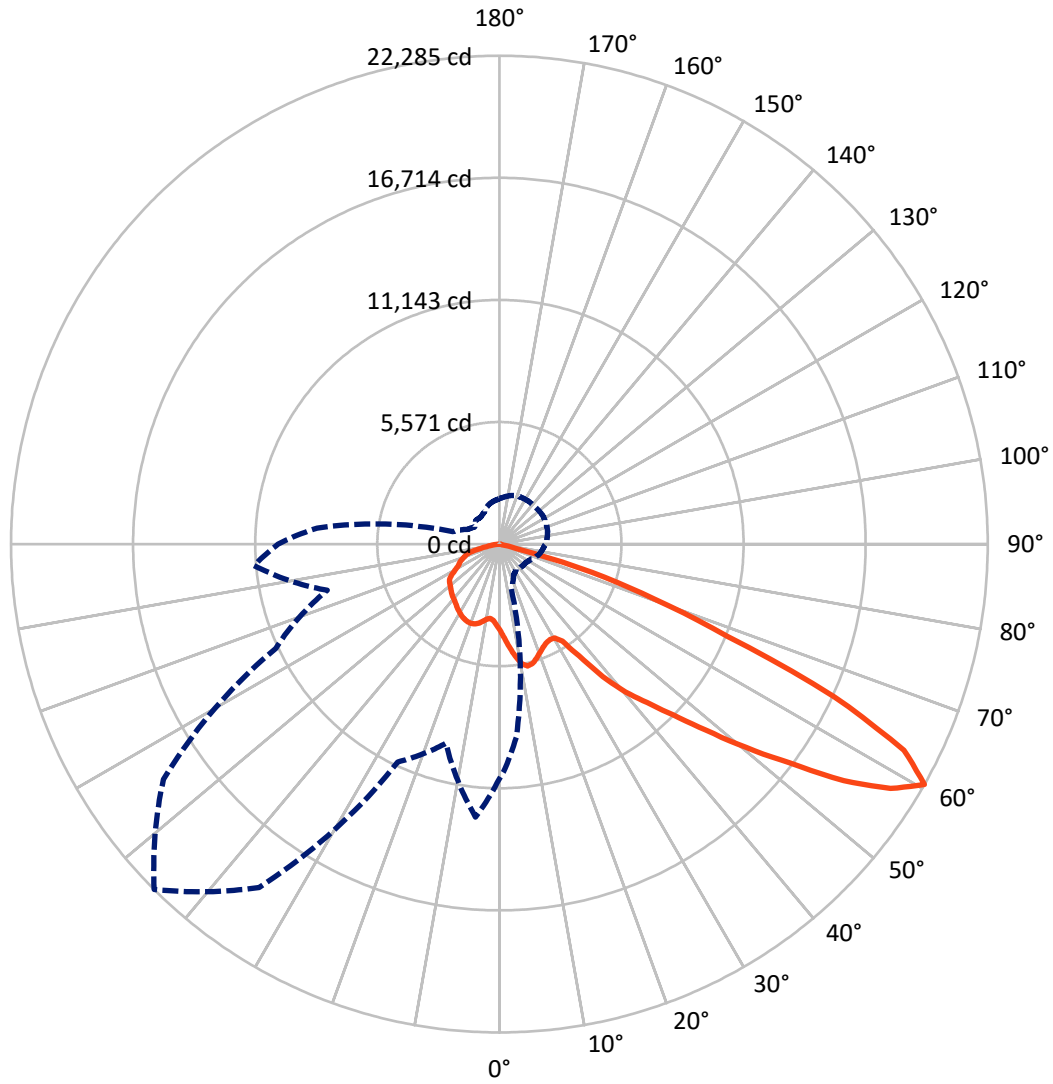
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P638535
CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638535
 CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

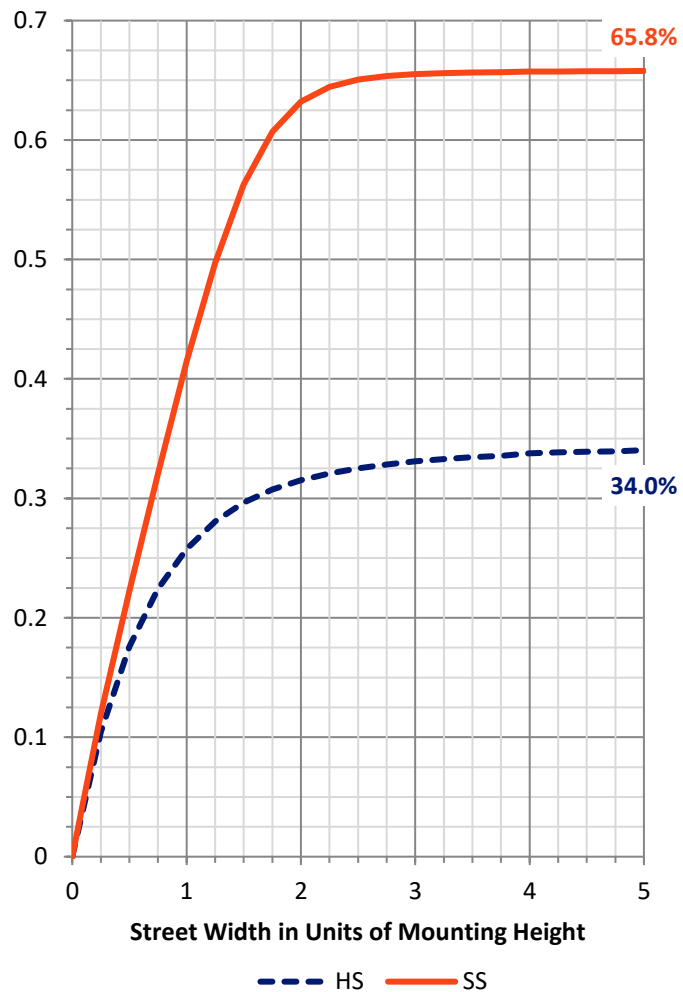
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6673.5	0.0	6673.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	12834.5	0.0	12834.5
	% Fixture	65.8	0.0	65.8
Total	Lumens	19508.0	0.0	19508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	2.0
10°-20°	1233.0	6.3
20°-30°	2008.0	10.3
30°-40°	2820.8	14.5
40°-50°	3860.0	19.8
50°-60°	4952.2	25.4
60°-70°	3334.6	17.1
70°-80°	833.7	4.3
80°-90°	81.3	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°	19508.0	100.0
0°-180°	19508.0	100.0

Coefficient of Utilization



REPORT NUMBER: P638535

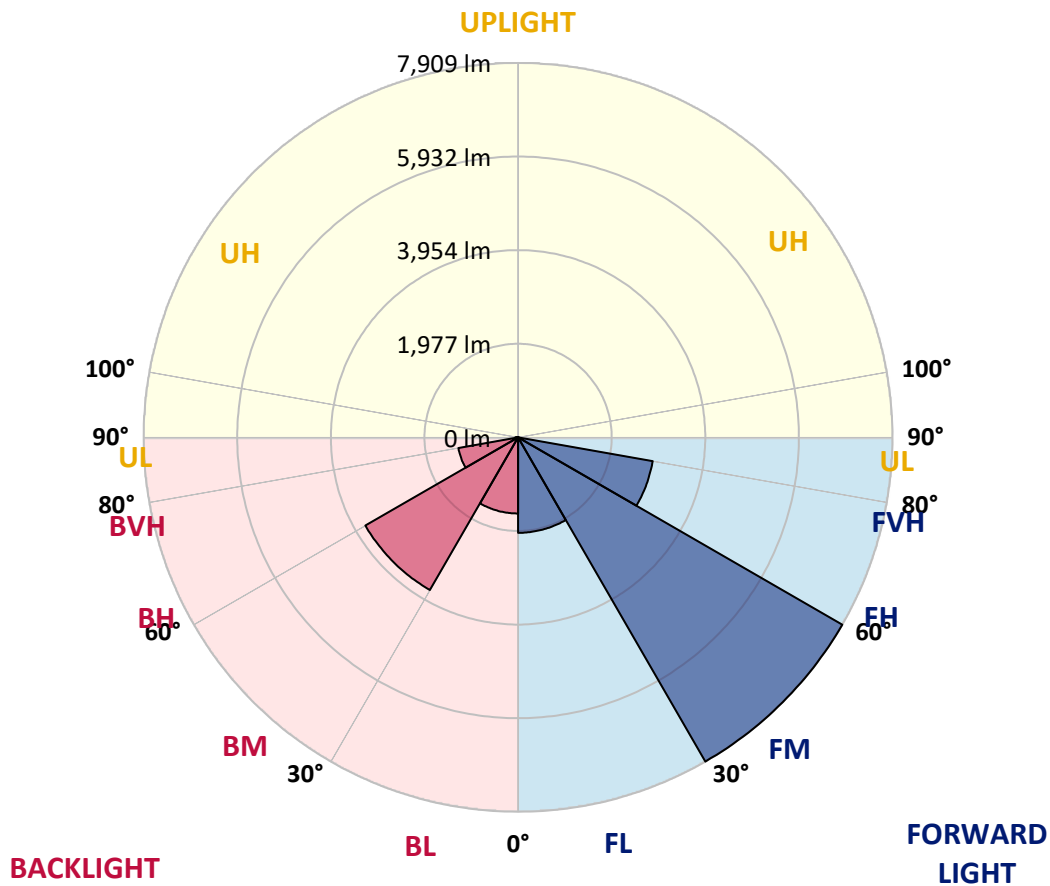
CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.7	10.3			
FM (30°-60°)	7908.7	40.5			
FH (60°-80°)	2888.0	14.8			G2/5000
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1608.7	8.2	B3/2500		
BM (30°-60°)	3724.4	19.1	B3/5000		
BH (60°-80°)	1280.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	60.2	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: P638535

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6
2.5°	4162.7	4153.7	4144.8	4074.7	4056.7	4006.4	3970.5	3925.6	3860.9	3825.0	3794.4
5°	4423.2	4408.9	4360.4	4216.6	4123.2	4020.8	3936.4	3842.9	3744.1	3679.4	3629.1
7.5°	4669.4	4665.8	4583.1	4346.0	4195.1	4047.7	3932.8	3796.2	3654.3	3557.3	3492.6
10°	4897.5	4870.6	4771.8	4462.8	4265.1	4096.3	3972.3	3821.4	3656.1	3524.9	3438.7
12.5°	5098.8	5064.6	4928.1	4570.6	4326.2	4117.8	3983.1	3859.1	3749.5	3639.9	3541.1
15°	5264.0	5222.7	5084.4	4671.2	4380.1	4105.2	3916.6	3819.6	3857.3	3905.8	3796.2
17.5°	5418.5	5375.4	5206.5	4744.8	4396.3	4028.0	3753.1	3711.8	3902.2	4123.2	4072.9
20°	5547.9	5499.4	5303.6	4780.8	4367.5	3880.7	3541.1	3613.0	3864.5	4128.6	4209.4
22.5°	5688.0	5648.5	5413.2	4832.9	4331.6	3677.6	3363.2	3539.3	3799.8	4031.6	4153.7
25°	5912.6	5864.1	5583.8	4924.5	4313.6	3487.2	3235.7	3467.4	3710.0	3920.2	4015.4
27.5°	6237.8	6148.0	5817.4	5084.4	4333.4	3307.5	3154.8	3379.4	3605.8	3785.4	3862.7
30°	6591.7	6483.9	6076.1	5249.7	4362.1	3197.9	3111.7	3278.8	3445.9	3625.5	3710.0
32.5°	7010.3	6915.1	6352.8	5373.6	4301.1	3147.6	3079.4	3169.2	3302.2	3445.9	3515.9
35°	7509.8	7339.1	6654.6	5474.2	4103.4	3074.0	3050.6	3048.8	3118.9	3259.0	3338.1
37.5°	8047.0	7863.7	7026.5	5582.0	3796.2	2957.2	2982.4	2906.9	2971.6	3083.0	3172.8
40°	8487.1	8294.9	7402.0	5729.4	3411.7	2774.0	2831.4	2750.6	2790.1	2905.1	3005.7
42.5°	8918.3	8713.5	7752.3	5896.4	3039.8	2594.3	2623.0	2592.5	2605.1	2725.4	2865.6
45°	9484.3	9254.3	8183.5	6015.0	2705.7	2452.4	2425.4	2373.3	2439.8	2596.1	2745.2
47.5°	10429.3	10154.4	8889.6	6092.3	2463.1	2371.5	2247.5	2217.0	2299.6	2473.9	2628.4
50°	11534.2	11297.0	10017.8	6088.7	2281.7	2303.2	2075.1	2048.1	2184.7	2360.7	2524.2
52.5°	12439.7	12198.9	10982.6	5909.0	2132.6	2157.7	1974.5	1899.0	2085.9	2249.3	2412.8
55°	13170.9	12899.6	11426.4	5158.0	1943.9	1926.0	1864.9	1726.5	1961.9	2138.0	2290.7
57.5°	12777.4	12454.0	10889.2	3922.0	1749.9	1636.7	1676.2	1573.8	1793.0	2014.0	2161.3
60°	10713.1	10422.1	8846.5	2087.7	1539.7	1367.2	1449.9	1466.0	1608.0	1864.9	2015.8
62.5°	7358.9	7146.9	5995.3	1266.6	1214.5	1097.7	1227.1	1343.9	1449.9	1667.2	1798.4
65°	3600.4	3537.5	2998.5	812.1	849.8	887.5	1016.9	1158.8	1315.1	1505.6	1643.9
67.5°	991.7	998.9	909.1	634.2	670.1	774.3	876.7	989.9	1146.2	1322.3	1462.4
70°	436.6	443.8	458.1	488.7	556.9	652.2	758.2	874.9	1018.7	1166.0	1300.7
72.5°	303.6	310.8	332.4	371.9	433.0	522.8	623.4	734.8	883.9	1007.9	1119.3
75°	186.8	192.2	212.0	246.1	287.5	355.7	454.5	556.9	688.1	801.3	900.1
77.5°	98.8	95.2	107.8	131.2	167.1	203.0	269.5	334.2	427.6	519.2	601.9
80°	53.9	52.1	59.3	71.9	82.6	111.4	156.3	199.4	253.3	305.4	350.3
82.5°	23.4	21.6	23.4	30.5	37.7	53.9	79.1	109.6	140.1	176.1	204.8
85°	0.0	0.0	0.0	1.8	9.0	14.4	26.9	39.5	57.5	79.1	97.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	16.2
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: P638535

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6
2.5°	3776.5	3731.5	3727.9	3692.0	3695.6	3697.4	3661.5	3647.1	3659.7	3674.0	3666.9
5°	3611.2	3564.5	3544.7	3510.6	3507.0	3490.8	3476.4	3458.5	3471.0	3483.6	3490.8
7.5°	3467.4	3436.9	3424.3	3415.3	3418.9	3411.7	3383.0	3366.8	3365.0	3370.4	3377.6
10°	3420.7	3395.6	3411.7	3436.9	3454.9	3467.4	3436.9	3409.9	3384.8	3374.0	3374.0
12.5°	3521.3	3489.0	3521.3	3548.3	3584.2	3593.2	3559.1	3530.3	3521.3	3532.1	3553.7
15°	3744.1	3668.7	3666.9	3683.0	3711.8	3726.2	3693.8	3679.4	3679.4	3747.7	3801.6
17.5°	3966.9	3842.9	3790.8	3781.8	3799.8	3805.2	3778.3	3765.7	3798.0	3931.0	4031.6
20°	4123.2	3972.3	3859.1	3837.5	3842.9	3844.7	3823.2	3814.2	3860.9	4022.6	4107.0
22.5°	4107.0	3995.6	3857.3	3830.4	3839.3	3835.7	3816.0	3812.4	3850.1	3990.3	4029.8
25°	3995.6	3909.4	3792.6	3774.7	3789.0	3787.2	3767.5	3758.5	3774.7	3868.1	3871.7
27.5°	3868.1	3792.6	3692.0	3686.6	3710.0	3722.6	3688.4	3661.5	3656.1	3719.0	3704.6
30°	3715.4	3659.7	3578.8	3582.4	3625.5	3632.7	3591.4	3551.9	3541.1	3575.2	3555.5
32.5°	3533.9	3515.9	3472.8	3481.8	3523.1	3537.5	3494.4	3453.1	3440.5	3451.3	3409.9
35°	3379.4	3372.2	3375.8	3392.0	3427.9	3438.7	3402.8	3370.4	3352.5	3314.7	3260.8
37.5°	3219.5	3239.3	3291.4	3321.9	3341.7	3338.1	3318.3	3295.0	3266.2	3196.2	3129.7
40°	3070.4	3120.7	3214.1	3248.3	3255.4	3257.2	3242.9	3223.1	3187.2	3093.7	3018.3
42.5°	2955.4	3011.1	3135.1	3187.2	3190.8	3194.4	3180.0	3163.8	3113.5	2989.5	2915.9
45°	2835.0	2908.7	3054.2	3117.1	3113.5	3111.7	3099.1	3092.0	3032.7	2888.9	2808.1
47.5°	2732.6	2818.9	2975.2	3029.1	3027.3	3025.5	3016.5	3016.5	2957.2	2800.9	2709.3
50°	2632.0	2730.8	2894.3	2939.2	2942.8	2939.2	2935.6	2941.0	2871.0	2703.9	2614.1
52.5°	2522.4	2633.8	2804.5	2845.8	2867.4	2876.4	2876.4	2863.8	2781.1	2606.9	2508.1
55°	2402.1	2508.1	2705.7	2761.4	2779.3	2795.5	2795.5	2770.4	2693.1	2517.0	2411.0
57.5°	2252.9	2346.4	2502.7	2558.4	2601.5	2612.3	2612.3	2570.9	2508.1	2339.2	2252.9
60°	2091.2	2172.1	2278.1	2337.4	2369.7	2348.2	2364.3	2353.5	2303.2	2146.9	2075.1
62.5°	1875.7	1958.3	2075.1	2136.2	2150.5	2129.0	2150.5	2148.7	2080.5	1940.3	1854.1
65°	1721.1	1802.0	1917.0	1996.0	2019.4	2014.0	2028.4	2006.8	1922.4	1789.4	1706.8
67.5°	1537.9	1624.1	1757.1	1845.1	1893.6	1899.0	1918.8	1873.9	1787.6	1642.1	1537.9
70°	1363.6	1437.3	1539.7	1622.3	1690.6	1724.7	1728.3	1663.7	1555.9	1435.5	1360.0
72.5°	1180.4	1255.8	1379.8	1469.6	1555.9	1595.4	1595.4	1516.3	1399.6	1266.6	1185.8
75°	957.6	1027.7	1140.8	1237.9	1336.7	1387.0	1385.2	1316.9	1187.6	1061.8	977.4
77.5°	648.6	700.7	772.5	846.2	860.6	900.1	919.9	833.6	761.8	693.5	618.0
80°	377.3	409.6	449.2	490.5	499.5	512.0	479.7	447.4	409.6	364.7	330.6
82.5°	221.0	242.5	262.3	294.6	300.0	303.6	274.9	260.5	230.0	203.0	181.5
85°	107.8	115.0	132.9	149.1	141.9	138.3	125.8	111.4	98.8	88.0	77.3
87.5°	21.6	21.6	32.3	30.5	25.2	21.6	12.6	16.2	3.6	3.6	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: P638535

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6
2.5°	3690.2	3720.8	3758.5	3808.8	3866.3	3927.4	3986.7	4031.6	4076.5	4143.0	4132.2
5°	3501.6	3553.7	3613.0	3690.2	3783.6	3889.6	4008.2	4126.8	4254.4	4362.1	4408.9
7.5°	3392.0	3449.5	3519.5	3620.2	3740.5	3869.9	4037.0	4229.2	4435.8	4577.7	4665.8
10°	3392.0	3465.6	3557.3	3654.3	3760.3	3893.2	4099.8	4340.6	4606.5	4793.3	4895.7
12.5°	3587.8	3661.5	3681.2	3677.6	3736.9	3884.3	4150.1	4457.4	4775.4	4973.0	5098.8
15°	3893.2	3918.4	3769.3	3632.7	3641.7	3819.6	4173.5	4550.8	4920.9	5158.0	5294.6
17.5°	4098.0	4031.6	3765.7	3526.7	3476.4	3710.0	4173.5	4640.6	5075.4	5343.1	5470.7
20°	4114.2	3948.9	3674.0	3424.3	3295.0	3564.5	4144.8	4708.9	5224.5	5521.0	5657.5
22.5°	3972.3	3808.8	3577.0	3336.3	3145.8	3388.4	4098.0	4761.0	5352.1	5688.0	5856.9
25°	3810.6	3674.0	3478.2	3246.5	3043.4	3210.5	4054.9	4849.0	5529.9	5914.4	6085.1
27.5°	3652.5	3537.5	3359.6	3171.0	2986.0	3056.0	4028.0	4978.4	5741.9	6236.0	6383.3
30°	3498.0	3393.8	3232.1	3099.1	2955.4	2955.4	4004.6	5127.5	6022.2	6597.1	6744.4
32.5°	3341.7	3242.9	3111.7	3029.1	2937.4	2915.9	3939.9	5267.6	6311.5	6992.4	7143.3
35°	3196.2	3097.3	2996.7	2962.6	2928.5	2885.3	3780.0	5377.2	6593.5	7454.1	7583.5
37.5°	3059.6	2964.4	2888.9	2880.0	2883.5	2802.7	3528.5	5468.9	6945.7	7926.6	7994.9
40°	2941.0	2835.0	2775.7	2774.0	2791.9	2669.7	3210.5	5600.0	7348.1	8327.2	8298.5
42.5°	2835.0	2723.6	2651.8	2668.0	2657.2	2536.8	2899.7	5720.4	7698.4	8702.7	8645.2
45°	2730.8	2623.0	2522.4	2545.8	2533.2	2454.2	2635.6	5808.4	8086.5	9153.7	9160.9
47.5°	2630.2	2524.2	2423.6	2394.9	2393.1	2429.0	2432.6	5837.2	8718.9	9879.5	9716.0
50°	2536.8	2430.8	2326.6	2229.6	2267.3	2378.7	2281.7	5815.6	9665.7	10680.8	10224.5
52.5°	2439.8	2339.2	2224.2	2049.9	2148.7	2258.3	2146.9	5738.3	10244.2	11388.7	11115.6
55°	2328.4	2233.2	2076.9	1864.9	1985.2	2008.6	2008.6	4991.0	10490.4	12089.3	12258.2
57.5°	2179.3	2053.5	1805.6	1634.9	1742.7	1652.9	1861.3	3492.6	10084.3	11868.3	12524.1
60°	2010.4	1875.7	1613.3	1491.2	1523.5	1365.4	1586.4	2190.1	8357.8	10098.7	11234.1
62.5°	1787.6	1663.7	1446.3	1351.0	1284.6	1113.9	1277.4	1385.2	5729.4	7499.0	8273.3
65°	1638.5	1502.0	1307.9	1182.2	1045.6	896.5	848.0	909.1	3081.2	4196.9	4719.7
67.5°	1462.4	1327.7	1144.4	986.3	876.7	768.9	684.5	662.9	1056.4	1397.8	1512.7
70°	1295.3	1166.0	1013.3	866.0	756.4	650.4	567.7	508.4	488.7	485.1	477.9
72.5°	1124.7	1004.3	876.7	740.2	619.8	522.8	449.2	380.9	352.1	343.2	334.2
75°	921.7	826.4	698.9	551.6	454.5	364.7	307.2	262.3	237.2	228.2	217.4
77.5°	592.9	549.8	438.4	355.7	274.9	217.4	186.8	158.1	141.9	138.3	129.4
80°	316.2	294.6	242.5	204.8	163.5	132.9	116.8	100.6	91.6	88.0	84.4
82.5°	176.1	159.9	134.7	118.6	95.2	80.8	71.9	64.7	59.3	57.5	55.7
85°	79.1	68.3	53.9	50.3	44.9	41.3	39.5	35.9	34.1	32.3	30.5
87.5°	3.6	7.2	9.0	7.2	7.2	10.8	12.6	12.6	10.8	10.8	9.0
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: P638535

CATALOG NUMBER: GWS-SA4F-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6	3934.6
2.5°	4198.7	4252.6	4257.9	4275.9	4252.6	4247.2	4209.4	4187.9	4168.1	4162.7
5°	4525.6	4633.4	4676.6	4707.1	4678.3	4664.0	4581.3	4495.1	4446.6	4423.2
7.5°	4861.6	5023.3	5107.7	5145.5	5149.1	5084.4	4942.4	4780.8	4699.9	4669.4
10°	5161.6	5361.1	5472.4	5544.3	5519.2	5440.1	5246.1	5026.9	4924.5	4897.5
12.5°	5384.4	5574.9	5661.1	5707.8	5706.0	5662.9	5479.6	5242.5	5125.7	5098.8
15°	5528.1	5641.3	5646.7	5657.5	5688.0	5745.5	5650.3	5431.1	5301.8	5264.0
17.5°	5641.3	5596.4	5512.0	5483.2	5551.5	5711.4	5768.9	5591.0	5450.9	5418.5
20°	5713.2	5486.8	5337.7	5282.0	5361.1	5621.6	5840.7	5734.8	5589.2	5547.9
22.5°	5768.9	5384.4	5143.7	5105.9	5188.6	5524.5	5914.4	5905.4	5745.5	5688.0
25°	5856.9	5316.1	5007.1	4980.2	5057.4	5477.8	6013.2	6137.2	5995.3	5912.6
27.5°	5995.3	5309.0	4937.1	4928.1	5034.1	5519.2	6155.2	6476.7	6298.9	6237.8
30°	6187.5	5377.2	4953.2	4971.2	5100.6	5668.3	6376.1	6864.8	6686.9	6591.7
32.5°	6464.2	5560.5	5199.4	5276.6	5371.8	5907.2	6699.5	7285.2	7150.5	7010.3
35°	6828.9	6063.5	5927.0	6255.8	6165.9	6430.0	7089.4	7795.5	7632.0	7509.8
37.5°	7315.8	7094.8	7220.5	7673.3	7455.9	7418.2	7565.5	8259.0	8169.1	8047.0
40°	7998.5	8043.4	8275.1	8869.8	8555.4	8312.9	8149.4	8607.5	8638.1	8487.1
42.5°	8451.2	8657.8	9216.6	9892.1	9459.1	8878.8	8638.1	9053.1	9054.9	8918.3
45°	8620.1	9160.9	10328.7	11106.6	10382.6	9202.2	8907.5	9658.5	9640.6	9484.3
47.5°	8559.0	9584.9	11483.9	12673.2	11568.3	9432.2	8869.8	10520.9	10666.4	10429.3
50°	8431.4	10010.7	12833.1	14592.0	13023.6	9676.5	8812.3	11476.7	11717.4	11534.2
52.5°	8560.8	10485.0	14428.5	16575.4	14848.9	10066.4	9200.4	12703.8	12660.6	12439.7
55°	8970.4	11045.5	16367.0	19067.3	16853.9	10725.7	10197.5	13873.4	13435.0	13170.9
57.5°	8950.7	11446.1	18066.6	21038.2	18598.4	11266.5	10544.3	13997.3	13111.6	12777.4
60°	8124.2	11262.9	18713.4	22285.0	19124.8	10968.2	9403.4	12502.5	11063.5	10713.1
62.5°	6063.5	9994.5	17459.4	20723.8	17635.4	9473.5	7071.4	8974.0	7950.0	7358.9
65°	3878.9	7818.8	14678.2	16789.2	14536.3	7245.7	4211.2	4811.3	3769.3	3600.4
67.5°	1651.1	5519.2	11410.2	11221.6	10874.8	4694.5	1625.9	1354.6	1009.7	991.7
70°	546.2	3754.9	7033.7	7484.6	6494.7	3233.9	537.2	454.5	452.7	436.6
72.5°	357.5	2015.8	3959.7	4408.9	4178.9	1861.3	325.2	303.6	310.8	303.6
75°	213.8	438.4	666.5	866.0	666.5	312.6	195.8	192.2	195.8	186.8
77.5°	125.8	122.2	118.6	118.6	116.8	107.8	98.8	95.2	97.0	98.8
80°	80.8	77.3	73.7	71.9	62.9	59.3	55.7	52.1	52.1	53.9
82.5°	52.1	48.5	44.9	39.5	32.3	26.9	25.2	21.6	21.6	23.4
85°	26.9	21.6	16.2	12.6	7.2	3.6	0.0	0.0	0.0	0.0
87.5°	5.4	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)