

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: P637655

Luminaire Tested: GWS-SA4D-730-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637655
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-SA4D-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17357.9 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

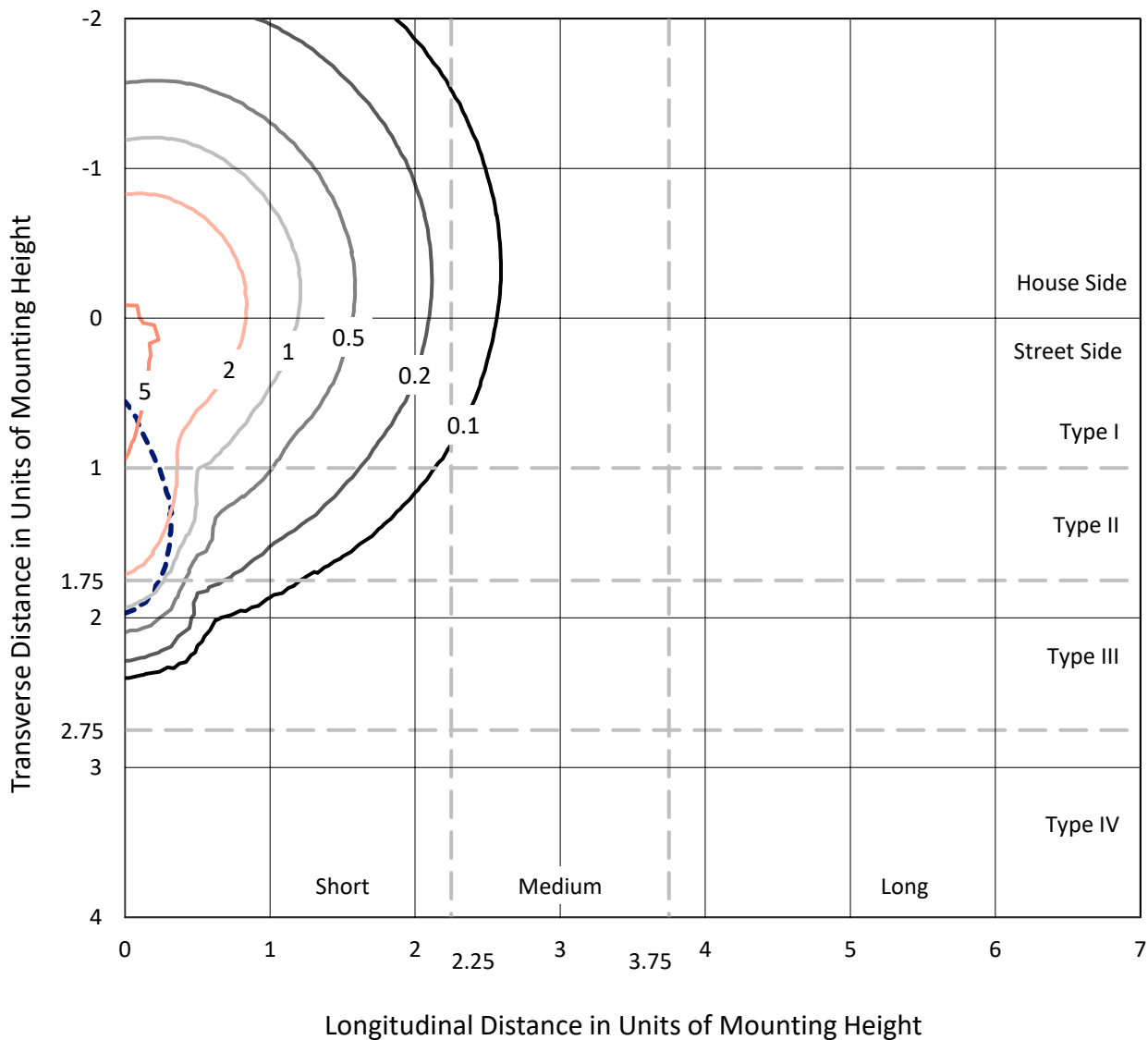
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637655
 CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

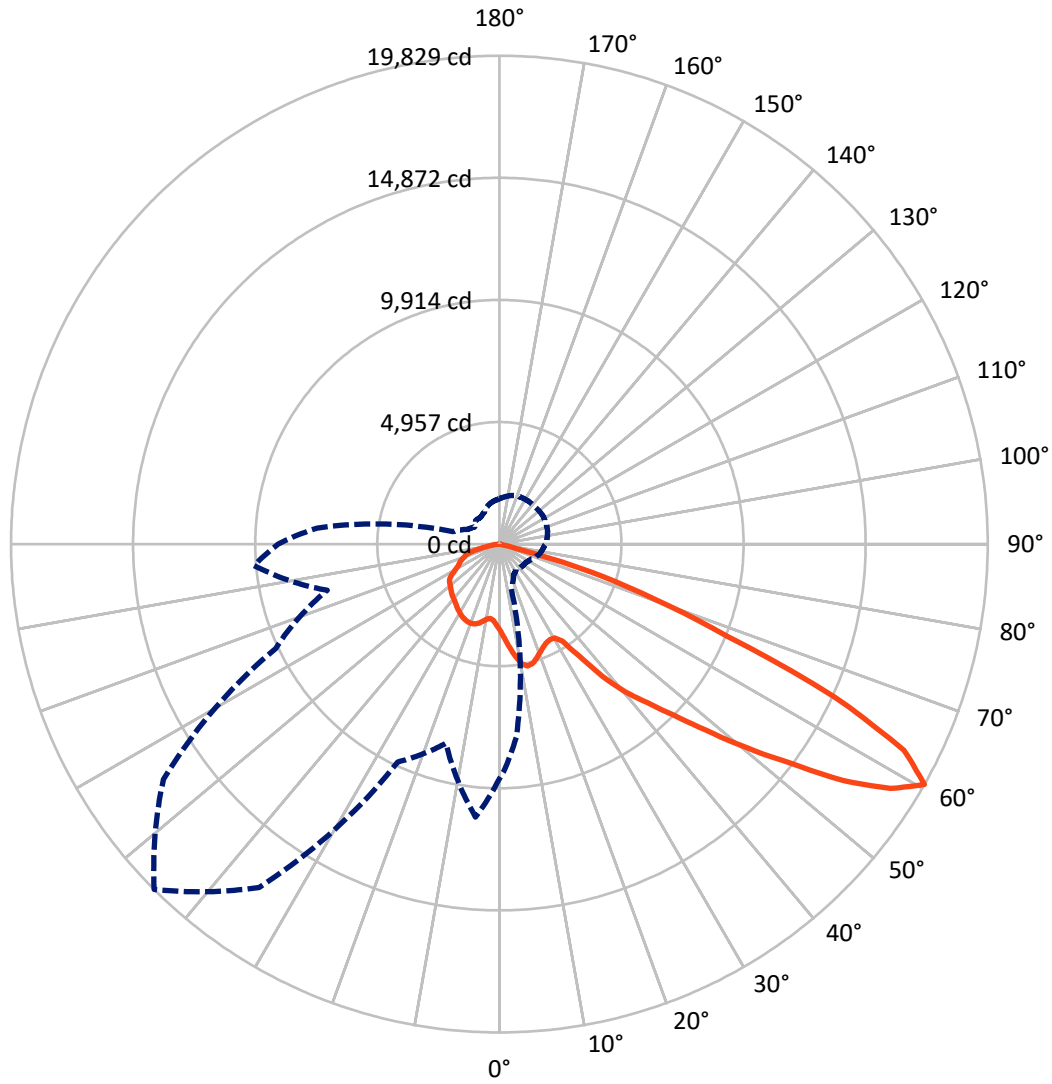
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P637655
CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637655
 CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

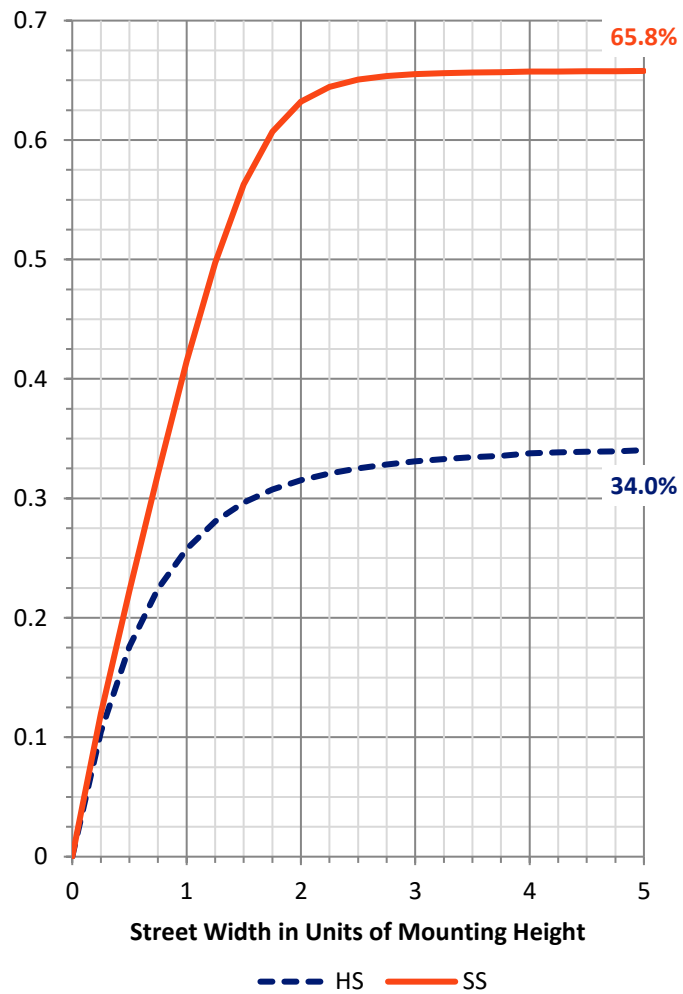
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5938.0	0.0	5938.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	11419.9	0.0	11419.9
	% Fixture	65.8	0.0	65.8
Total	Lumens	17357.9	0.0	17357.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	2.0
10°-20°	1097.1	6.3
20°-30°	1786.7	10.3
30°-40°	2509.9	14.5
40°-50°	3434.6	19.8
50°-60°	4406.4	25.4
60°-70°	2967.1	17.1
70°-80°	741.8	4.3
80°-90°	72.3	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°	17357.9	100.0
0°-180°	17357.9	100.0

Coefficient of Utilization



REPORT NUMBER: P637655

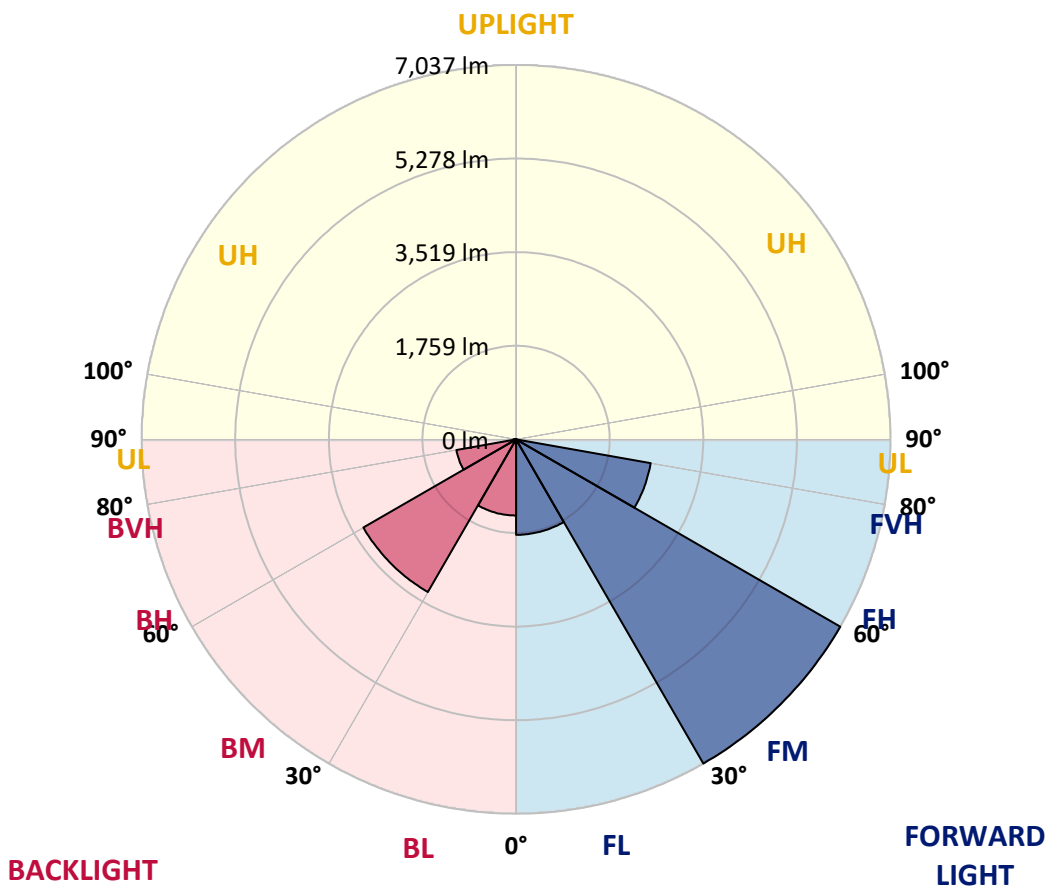
CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.4	10.3			
FM (30°-60°)	7037.0	40.5			
FH (60°-80°)	2569.7	14.8			G2/5000
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1431.4	8.2	B3/2500		
BM (30°-60°)	3313.9	19.1	B3/5000		
BH (60°-80°)	1139.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	53.5	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: P637655

CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9
2.5°	3703.9	3695.9	3687.9	3625.6	3609.6	3564.8	3532.9	3492.9	3435.4	3403.4	3376.2
5°	3935.7	3922.9	3879.8	3751.9	3668.8	3577.6	3502.5	3419.4	3331.5	3273.9	3229.1
7.5°	4154.7	4151.5	4078.0	3867.0	3732.7	3601.6	3499.3	3377.8	3251.5	3165.2	3107.7
10°	4357.7	4333.8	4245.8	3970.9	3795.0	3644.8	3534.5	3400.2	3253.1	3136.4	3059.7
12.5°	4536.8	4506.4	4384.9	4066.8	3849.4	3664.0	3544.1	3433.8	3336.2	3238.7	3150.8
15°	4683.9	4647.1	4524.0	4156.3	3897.4	3652.8	3484.9	3398.6	3432.2	3475.3	3377.8
17.5°	4821.3	4783.0	4632.7	4221.9	3911.7	3584.0	3339.4	3302.7	3472.1	3668.8	3624.0
20°	4936.4	4893.3	4719.0	4253.8	3886.2	3452.9	3150.8	3214.8	3438.6	3673.6	3745.5
22.5°	5061.1	5026.0	4816.5	4300.2	3854.2	3272.3	2992.6	3149.2	3381.0	3587.2	3695.9
25°	5260.9	5217.8	4968.4	4381.7	3838.2	3102.9	2879.1	3085.3	3301.1	3488.1	3572.8
27.5°	5550.3	5470.4	5176.2	4524.0	3855.8	2943.0	2807.1	3006.9	3208.4	3368.2	3437.0
30°	5865.2	5769.3	5406.4	4671.1	3881.4	2845.5	2768.8	2917.4	3066.1	3225.9	3301.1
32.5°	6237.7	6153.0	5652.6	4781.4	3827.0	2800.7	2740.0	2819.9	2938.2	3066.1	3128.4
35°	6682.1	6530.2	5921.2	4870.9	3651.2	2735.2	2714.4	2712.8	2775.1	2899.8	2970.2
37.5°	7160.1	6997.0	6252.1	4966.8	3377.8	2631.3	2653.7	2586.5	2644.1	2743.2	2823.1
40°	7551.7	7380.7	6586.2	5097.9	3035.7	2468.2	2519.4	2447.4	2482.6	2584.9	2674.4
42.5°	7935.4	7753.1	6897.9	5246.6	2704.8	2308.4	2333.9	2306.8	2318.0	2425.1	2549.7
45°	8438.9	8234.3	7281.6	5352.1	2407.5	2182.1	2158.1	2111.7	2170.9	2310.0	2442.6
47.5°	9279.8	9035.2	7909.8	5420.8	2191.7	2110.1	1999.8	1972.7	2046.2	2201.3	2338.7
50°	10262.9	10051.9	8913.7	5417.6	2030.2	2049.4	1846.4	1822.4	1943.9	2100.5	2246.0
52.5°	11068.6	10854.4	9772.2	5257.8	1897.5	1919.9	1756.8	1689.7	1856.0	2001.4	2146.9
55°	11719.2	11477.8	10167.0	4589.5	1729.7	1713.7	1659.3	1536.2	1745.7	1902.3	2038.2
57.5°	11369.1	11081.4	9689.0	3489.7	1557.0	1456.3	1491.5	1400.4	1595.4	1792.0	1923.1
60°	9532.4	9273.4	7871.4	1857.6	1370.0	1216.5	1290.1	1304.4	1430.7	1659.3	1793.6
62.5°	6547.8	6359.2	5334.5	1127.0	1080.6	976.7	1091.8	1195.7	1290.1	1483.5	1600.2
65°	3203.6	3147.6	2668.0	722.6	756.1	789.7	904.8	1031.1	1170.2	1339.6	1462.7
67.5°	882.4	888.8	808.9	564.3	596.3	689.0	780.1	880.8	1019.9	1176.6	1301.2
70°	388.5	394.9	407.6	434.8	495.6	580.3	674.6	778.5	906.4	1037.5	1157.4
72.5°	270.2	276.6	295.7	330.9	385.3	465.2	554.7	653.8	786.5	896.8	995.9
75°	166.3	171.0	188.6	219.0	255.8	316.5	404.4	495.6	612.3	713.0	800.9
77.5°	87.9	84.7	95.9	116.7	148.7	180.6	239.8	297.3	380.5	462.0	535.5
80°	48.0	46.4	52.8	63.9	73.5	99.1	139.1	177.4	225.4	271.8	311.7
82.5°	20.8	19.2	20.8	27.2	33.6	48.0	70.3	97.5	124.7	156.7	182.2
85°	0.0	0.0	0.0	1.6	8.0	12.8	24.0	35.2	51.2	70.3	86.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	14.4
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: P637655

CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9
2.5°	3360.2	3320.3	3317.1	3285.1	3288.3	3289.9	3257.9	3245.1	3256.3	3269.1	3262.7
5°	3213.2	3171.6	3154.0	3123.6	3120.4	3106.1	3093.3	3077.3	3088.5	3099.7	3106.1
7.5°	3085.3	3058.1	3046.9	3038.9	3042.1	3035.7	3010.1	2995.8	2994.2	2998.9	3005.3
10°	3043.7	3021.3	3035.7	3058.1	3074.1	3085.3	3058.1	3034.1	3011.7	3002.1	3002.1
12.5°	3133.2	3104.5	3133.2	3157.2	3189.2	3197.2	3166.8	3141.2	3133.2	3142.8	3162.0
15°	3331.5	3264.3	3262.7	3277.1	3302.7	3315.5	3286.7	3273.9	3273.9	3334.7	3382.6
17.5°	3529.7	3419.4	3373.0	3365.0	3381.0	3385.8	3361.8	3350.6	3379.4	3497.7	3587.2
20°	3668.8	3534.5	3433.8	3414.6	3419.4	3421.0	3401.8	3393.8	3435.4	3579.2	3654.4
22.5°	3654.4	3555.3	3432.2	3408.2	3416.2	3413.0	3395.4	3392.2	3425.8	3550.5	3585.6
25°	3555.3	3478.5	3374.6	3358.6	3371.4	3369.8	3352.2	3344.2	3358.6	3441.8	3445.0
27.5°	3441.8	3374.6	3285.1	3280.3	3301.1	3312.3	3281.9	3257.9	3253.1	3309.1	3296.3
30°	3305.9	3256.3	3184.4	3187.6	3225.9	3232.3	3195.6	3160.4	3150.8	3181.2	3163.6
32.5°	3144.4	3128.4	3090.1	3098.1	3134.8	3147.6	3109.3	3072.5	3061.3	3070.9	3034.1
35°	3006.9	3000.5	3003.7	3018.1	3050.1	3059.7	3027.7	2998.9	2983.0	2949.4	2901.4
37.5°	2864.7	2882.3	2928.6	2955.8	2973.4	2970.2	2952.6	2931.8	2906.2	2843.9	2784.7
40°	2732.0	2776.7	2859.9	2890.2	2896.6	2898.2	2885.4	2867.9	2835.9	2752.8	2685.6
42.5°	2629.7	2679.2	2789.5	2835.9	2839.1	2842.3	2829.5	2815.1	2770.4	2660.0	2594.5
45°	2522.6	2588.1	2717.6	2773.5	2770.4	2768.8	2757.6	2751.2	2698.4	2570.5	2498.6
47.5°	2431.4	2508.2	2647.3	2695.2	2693.6	2692.0	2684.0	2684.0	2631.3	2492.2	2410.7
50°	2341.9	2429.9	2575.3	2615.3	2618.5	2615.3	2612.1	2616.9	2554.5	2405.9	2325.9
52.5°	2244.4	2343.5	2495.4	2532.2	2551.3	2559.3	2559.3	2548.1	2474.6	2319.5	2231.6
55°	2137.3	2231.6	2407.5	2457.0	2473.0	2487.4	2487.4	2465.0	2396.3	2239.6	2145.3
57.5°	2004.6	2087.8	2226.8	2276.4	2314.8	2324.3	2324.3	2287.6	2231.6	2081.4	2004.6
60°	1860.8	1932.7	2027.0	2079.8	2108.5	2089.4	2103.7	2094.1	2049.4	1910.3	1846.4
62.5°	1668.9	1742.5	1846.4	1900.7	1913.5	1894.3	1913.5	1911.9	1851.2	1726.5	1649.7
65°	1531.4	1603.4	1705.7	1776.0	1796.8	1792.0	1804.8	1785.6	1710.5	1592.2	1518.7
67.5°	1368.4	1445.1	1563.4	1641.7	1684.9	1689.7	1707.3	1667.3	1590.6	1461.1	1368.4
70°	1213.3	1278.9	1370.0	1443.5	1504.3	1534.6	1537.8	1480.3	1384.4	1277.3	1210.1
72.5°	1050.3	1117.4	1227.7	1307.6	1384.4	1419.5	1419.5	1349.2	1245.3	1127.0	1055.1
75°	852.0	914.4	1015.1	1101.4	1189.3	1234.1	1232.5	1171.8	1056.7	944.8	869.6
77.5°	577.1	623.4	687.4	752.9	765.7	800.9	818.5	741.7	677.8	617.1	549.9
80°	335.7	364.5	399.6	436.4	444.4	455.6	426.8	398.0	364.5	324.5	294.1
82.5°	196.6	215.8	233.4	262.2	267.0	270.2	244.6	231.8	204.6	180.6	161.5
85°	95.9	102.3	118.3	132.7	126.3	123.1	111.9	99.1	87.9	78.3	68.7
87.5°	19.2	19.2	28.8	27.2	22.4	19.2	11.2	14.4	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: P637655

CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9
2.5°	3283.5	3310.7	3344.2	3389.0	3440.2	3494.5	3547.3	3587.2	3627.2	3686.3	3676.7
5°	3115.6	3162.0	3214.8	3283.5	3366.6	3460.9	3566.4	3672.0	3785.5	3881.4	3922.9
7.5°	3018.1	3069.3	3131.6	3221.2	3328.3	3443.4	3592.0	3763.1	3946.9	4073.2	4151.5
10°	3018.1	3083.7	3165.2	3251.5	3345.8	3464.1	3648.0	3862.2	4098.8	4265.0	4356.1
12.5°	3192.4	3257.9	3275.5	3272.3	3325.1	3456.1	3692.7	3966.1	4249.0	4424.9	4536.8
15°	3464.1	3486.5	3353.8	3232.3	3240.3	3398.6	3713.5	4049.2	4378.5	4589.5	4711.0
17.5°	3646.4	3587.2	3350.6	3138.0	3093.3	3301.1	3713.5	4129.1	4516.0	4754.2	4867.7
20°	3660.8	3513.7	3269.1	3046.9	2931.8	3171.6	3687.9	4189.9	4648.7	4912.5	5033.9
22.5°	3534.5	3389.0	3182.8	2968.6	2799.1	3014.9	3646.4	4236.3	4762.2	5061.1	5211.4
25°	3390.6	3269.1	3094.9	2888.6	2708.0	2856.7	3608.0	4314.6	4920.4	5262.5	5414.4
27.5°	3249.9	3147.6	2989.4	2821.5	2656.9	2719.2	3584.0	4429.7	5109.1	5548.7	5679.8
30°	3112.4	3019.7	2875.9	2757.6	2629.7	2629.7	3563.2	4562.4	5358.5	5870.0	6001.1
32.5°	2973.4	2885.4	2768.8	2695.2	2613.7	2594.5	3505.7	4687.1	5615.8	6221.7	6356.0
35°	2843.9	2756.0	2666.4	2636.1	2605.7	2567.3	3363.4	4784.6	5866.8	6632.5	6747.6
37.5°	2722.4	2637.7	2570.5	2562.5	2565.7	2493.8	3139.6	4866.1	6180.1	7053.0	7113.7
40°	2616.9	2522.6	2469.8	2468.2	2484.2	2375.5	2856.7	4982.8	6538.2	7409.4	7383.9
42.5°	2522.6	2423.5	2359.5	2373.9	2364.3	2257.2	2580.1	5089.9	6849.9	7743.6	7692.4
45°	2429.9	2333.9	2244.4	2265.2	2254.0	2183.7	2345.1	5168.2	7195.2	8144.8	8151.2
47.5°	2340.3	2246.0	2156.5	2130.9	2129.3	2161.3	2164.5	5193.8	7757.9	8790.6	8645.2
50°	2257.2	2162.9	2070.2	1983.8	2017.4	2116.5	2030.2	5174.6	8600.4	9503.6	9097.6
52.5°	2170.9	2081.4	1979.0	1824.0	1911.9	2009.4	1910.3	5105.9	9115.1	10133.4	9890.5
55°	2071.8	1987.0	1848.0	1659.3	1766.4	1787.2	1787.2	4440.9	9334.1	10756.9	10907.2
57.5°	1939.1	1827.2	1606.6	1454.7	1550.6	1470.7	1656.1	3107.7	8972.9	10560.3	11143.7
60°	1788.8	1668.9	1435.5	1326.8	1355.6	1214.9	1411.6	1948.7	7436.6	8985.7	9996.0
62.5°	1590.6	1480.3	1286.9	1202.1	1143.0	991.1	1136.6	1232.5	5097.9	6672.5	7361.5
65°	1457.9	1336.4	1163.8	1051.9	930.4	797.7	754.5	808.9	2741.6	3734.3	4199.5
67.5°	1301.2	1181.4	1018.3	877.6	780.1	684.2	609.1	589.9	940.0	1243.7	1346.0
70°	1152.6	1037.5	901.6	770.5	673.0	578.7	505.2	452.4	434.8	431.6	425.2
72.5°	1000.7	893.6	780.1	658.6	551.5	465.2	399.6	338.9	313.3	305.3	297.3
75°	820.1	735.3	621.9	490.8	404.4	324.5	273.4	233.4	211.0	203.0	193.4
77.5°	527.5	489.2	390.1	316.5	244.6	193.4	166.3	140.7	126.3	123.1	115.1
80°	281.4	262.2	215.8	182.2	145.5	118.3	103.9	89.5	81.5	78.3	75.1
82.5°	156.7	142.3	119.9	105.5	84.7	71.9	63.9	57.5	52.8	51.2	49.6
85°	70.3	60.7	48.0	44.8	40.0	36.8	35.2	32.0	30.4	28.8	27.2
87.5°	3.2	6.4	8.0	6.4	6.4	9.6	11.2	11.2	9.6	9.6	8.0
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: P637655

CATALOG NUMBER: GWS-SA4D-730-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9
2.5°	3735.9	3783.9	3788.6	3804.6	3783.9	3779.1	3745.5	3726.3	3708.7	3703.9
5°	4026.8	4122.8	4161.1	4188.3	4162.7	4149.9	4076.4	3999.7	3956.5	3935.7
7.5°	4325.8	4469.6	4544.8	4578.4	4581.5	4524.0	4397.7	4253.8	4181.9	4154.7
10°	4592.7	4770.2	4869.3	4933.2	4910.9	4840.5	4667.9	4472.8	4381.7	4357.7
12.5°	4791.0	4960.4	5037.1	5078.7	5077.1	5038.7	4875.7	4664.7	4560.8	4536.8
15°	4918.8	5019.6	5024.4	5033.9	5061.1	5112.3	5027.6	4832.5	4717.4	4683.9
17.5°	5019.6	4979.6	4904.5	4878.9	4939.6	5081.9	5133.1	4974.8	4850.1	4821.3
20°	5083.5	4882.1	4749.4	4699.8	4770.2	5002.0	5197.0	5102.7	4973.2	4936.4
22.5°	5133.1	4791.0	4576.8	4543.2	4616.7	4915.7	5262.5	5254.6	5112.3	5061.1
25°	5211.4	4730.2	4455.3	4431.3	4500.0	4874.1	5350.5	5460.8	5334.5	5260.9
27.5°	5334.5	4723.8	4392.9	4384.9	4479.2	4910.9	5476.8	5762.9	5604.6	5550.3
30°	5505.5	4784.6	4407.3	4423.3	4538.4	5043.5	5673.4	6108.2	5949.9	5865.2
32.5°	5751.7	4947.6	4626.3	4695.0	4779.8	5256.2	5961.1	6482.3	6362.4	6237.7
35°	6076.2	5395.2	5273.7	5566.3	5486.3	5721.3	6308.0	6936.3	6790.8	6682.1
37.5°	6509.4	6312.8	6424.7	6827.6	6634.1	6600.6	6731.6	7348.7	7268.8	7160.1
40°	7116.9	7156.9	7363.1	7892.2	7612.5	7396.7	7251.2	7658.8	7686.0	7551.7
42.5°	7519.7	7703.6	8200.7	8801.8	8416.6	7900.2	7686.0	8055.3	8056.9	7935.4
45°	7670.0	8151.2	9190.3	9882.5	9238.2	8188.0	7925.8	8594.0	8578.0	8438.9
47.5°	7615.7	8528.5	10218.2	11276.4	10293.3	8392.6	7892.2	9361.3	9490.8	9279.8
50°	7502.2	8907.3	11418.7	12983.7	11588.2	8610.0	7841.1	10211.8	10426.0	10262.9
52.5°	7617.3	9329.3	12838.2	14748.6	13212.3	8956.9	8186.4	11303.6	11265.2	11068.6
55°	7981.7	9828.1	14563.1	16965.8	14996.3	9543.6	9073.6	12344.3	11954.2	11719.2
57.5°	7964.2	10184.6	16075.4	18719.4	16548.6	10024.7	9382.1	12454.6	11666.5	11369.1
60°	7228.8	10021.5	16650.9	19828.9	17017.0	9759.4	8367.0	11124.6	9844.1	9532.4
62.5°	5395.2	8892.9	15535.1	18439.7	15691.7	8429.3	6292.0	7984.9	7073.7	6547.8
65°	3451.3	6957.0	13060.4	14938.8	12934.2	6447.1	3747.1	4281.0	3353.8	3203.6
67.5°	1469.1	4910.9	10152.6	9984.8	9676.2	4177.1	1446.7	1205.3	898.4	882.4
70°	486.0	3341.0	6258.5	6659.7	5778.9	2877.5	478.0	404.4	402.8	388.5
72.5°	318.1	1793.6	3523.3	3922.9	3718.3	1656.1	289.3	270.2	276.6	270.2
75°	190.2	390.1	593.1	770.5	593.1	278.2	174.2	171.0	174.2	166.3
77.5°	111.9	108.7	105.5	105.5	103.9	95.9	87.9	84.7	86.3	87.9
80°	71.9	68.7	65.5	63.9	56.0	52.8	49.6	46.4	46.4	48.0
82.5°	46.4	43.2	40.0	35.2	28.8	24.0	22.4	19.2	19.2	20.8
85°	24.0	19.2	14.4	11.2	6.4	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)