

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: P637765

Luminaire Tested: GWS-SA4D-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637765
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19061.7 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

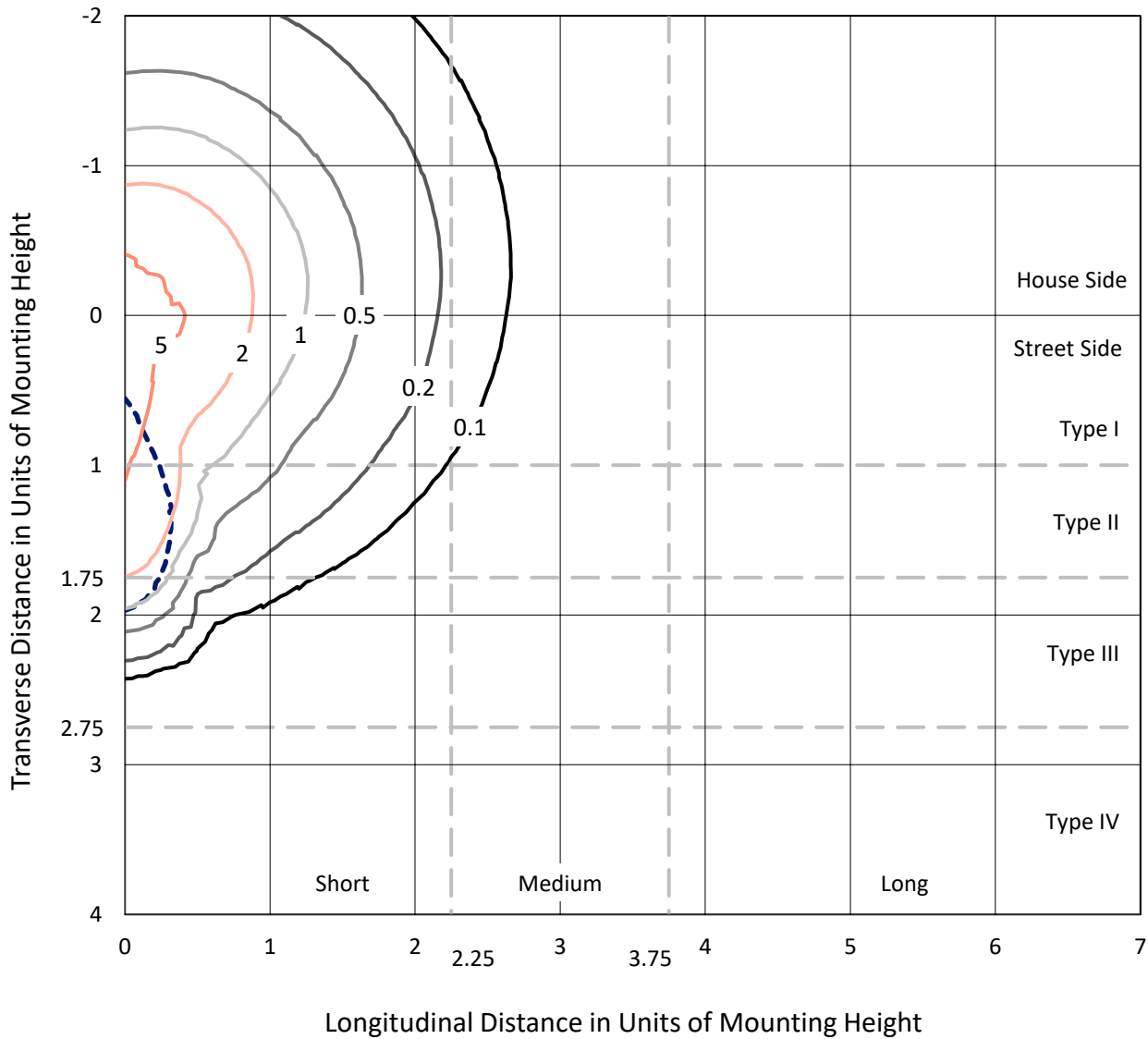
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

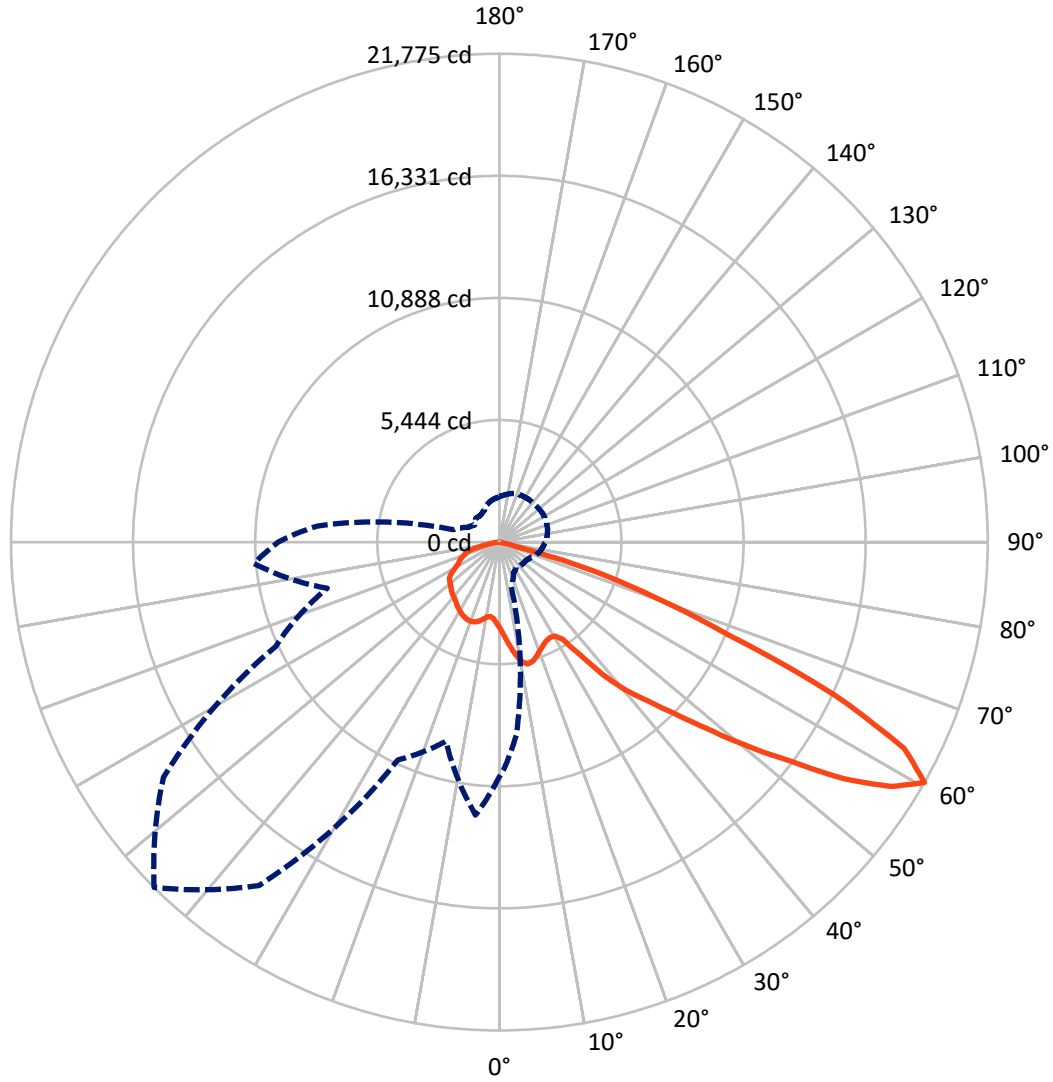
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6520.8	0.0	6520.8
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	12540.9	0.0	12540.9
	% Fixture	65.8	0.0	65.8
Total	Lumens	19061.7	0.0	19061.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	2.0
10°-20°	1204.8	6.3
20°-30°	1962.1	10.3
30°-40°	2756.3	14.5
40°-50°	3771.7	19.8
50°-60°	4838.9	25.4
60°-70°	3258.3	17.1
70°-80°	814.6	4.3
80°-90°	79.4	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°	19061.7	100.0
0°-180°	19061.7	100.0

Coefficient of Utilization



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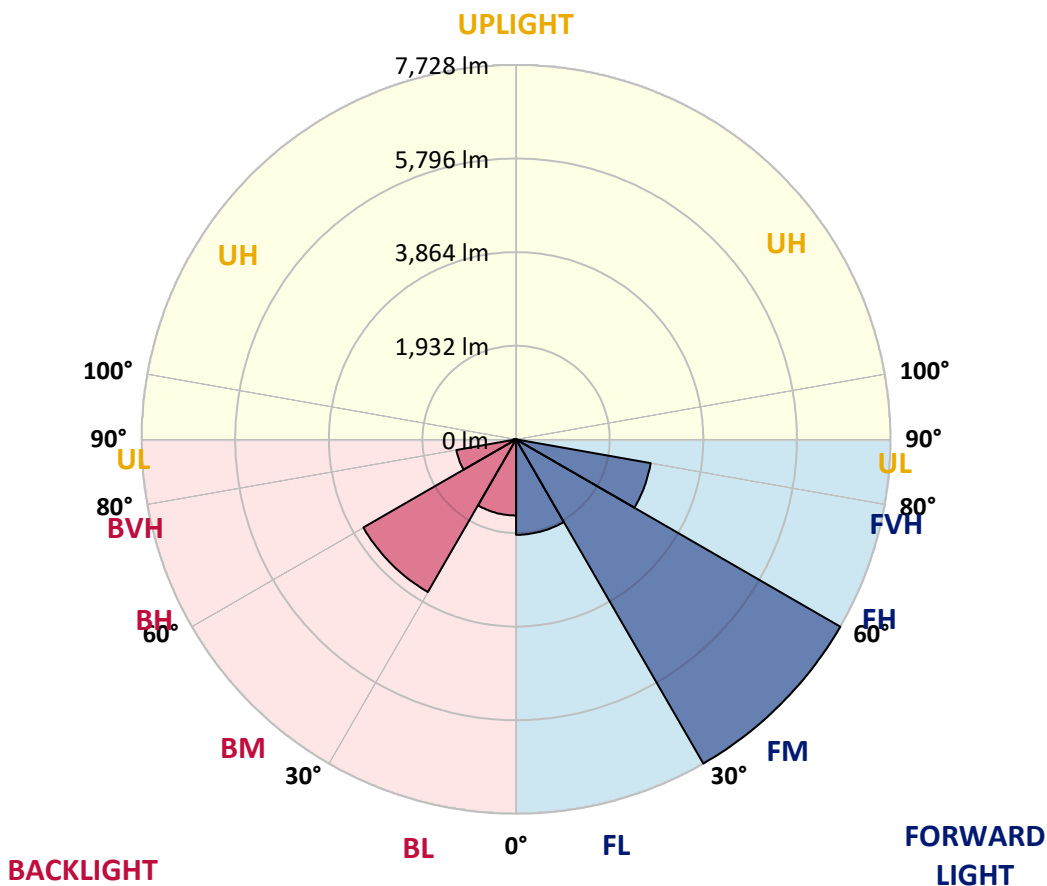
CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.5	10.3			
FM (30°-60°)	7727.8	40.5			
FH (60°-80°)	2821.9	14.8			G2/5000
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	1571.9	8.2	B3/2500		
BM (30°-60°)	3639.2	19.1	B3/5000		
BH (60°-80°)	1251.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	58.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5
2.5°	4067.5	4058.7	4049.9	3981.5	3963.9	3914.8	3879.7	3835.8	3772.6	3737.5	3707.6
5°	4322.0	4308.0	4260.6	4120.2	4028.9	3928.8	3846.3	3755.0	3658.5	3595.3	3546.1
7.5°	4562.5	4559.0	4478.3	4246.6	4099.1	3955.1	3842.8	3709.4	3570.7	3475.9	3412.7
10°	4785.5	4759.2	4662.6	4360.7	4167.6	4002.5	3881.4	3733.9	3572.4	3444.3	3360.0
12.5°	4982.1	4948.8	4815.3	4466.0	4227.2	4023.6	3891.9	3770.8	3663.7	3556.6	3460.1
15°	5143.6	5103.2	4968.1	4564.3	4279.9	4011.3	3827.0	3732.2	3769.1	3816.5	3709.4
17.5°	5294.6	5252.5	5087.4	4636.3	4295.7	3935.8	3667.2	3626.9	3812.9	4028.9	3979.7
20°	5421.0	5373.6	5182.2	4671.4	4267.6	3791.9	3460.1	3530.3	3776.1	4034.1	4113.1
22.5°	5557.9	5519.3	5289.3	4722.3	4232.5	3593.5	3286.3	3458.3	3712.9	3939.3	4058.7
25°	5777.3	5729.9	5456.1	4811.8	4215.0	3407.4	3161.7	3388.1	3625.1	3830.5	3923.5
27.5°	6095.1	6007.3	5684.3	4968.1	4234.3	3231.9	3082.7	3302.1	3523.3	3698.8	3774.3
30°	6440.9	6335.6	5937.1	5129.6	4262.4	3124.8	3040.5	3203.8	3367.0	3542.6	3625.1
32.5°	6850.0	6756.9	6207.4	5250.7	4202.7	3075.6	3008.9	3096.7	3226.6	3367.0	3435.5
35°	7338.0	7171.2	6502.4	5349.0	4009.6	3003.7	2980.8	2979.1	3047.5	3184.5	3261.7
37.5°	7862.9	7683.8	6865.8	5454.3	3709.4	2889.6	2914.1	2840.4	2903.6	3012.4	3100.2
40°	8293.0	8105.1	7232.7	5598.3	3333.7	2710.5	2766.7	2687.7	2726.3	2838.6	2936.9
42.5°	8714.3	8514.2	7575.0	5761.5	2970.3	2534.9	2563.0	2533.2	2545.5	2663.1	2800.0
45°	9267.3	9042.6	7996.3	5877.4	2643.8	2396.3	2369.9	2319.0	2384.0	2536.7	2682.4
47.5°	10190.7	9922.1	8686.2	5952.9	2406.8	2317.3	2196.1	2166.3	2247.0	2417.3	2568.3
50°	11270.3	11038.6	9788.7	5949.4	2229.5	2250.5	2027.6	2001.3	2134.7	2306.7	2466.5
52.5°	12155.1	11919.8	10731.4	5773.8	2083.8	2108.4	1929.3	1855.6	2038.1	2197.9	2357.6
55°	12869.6	12604.5	11165.0	5040.0	1899.4	1881.9	1822.2	1687.0	1917.0	2089.0	2238.3
57.5°	12485.1	12169.1	10640.1	3832.3	1709.9	1599.3	1637.9	1537.8	1752.0	1967.9	2111.9
60°	10468.0	10183.6	8644.1	2039.9	1504.5	1335.9	1416.7	1432.5	1571.2	1822.2	1969.7
62.5°	7190.5	6983.4	5858.1	1237.6	1186.7	1072.6	1199.0	1313.1	1416.7	1629.1	1757.3
65°	3518.0	3456.6	2929.9	793.5	830.4	867.2	993.6	1132.3	1285.0	1471.1	1606.3
67.5°	969.0	976.1	888.3	619.7	654.8	756.6	856.7	967.3	1120.0	1292.0	1429.0
70°	426.6	433.6	447.7	477.5	544.2	637.2	740.8	854.9	995.4	1139.3	1271.0
72.5°	296.7	303.7	324.8	363.4	423.1	510.9	609.2	718.0	863.7	984.8	1093.7
75°	182.6	187.8	207.1	240.5	280.9	347.6	444.1	544.2	672.4	783.0	879.5
77.5°	96.6	93.0	105.3	128.2	163.3	198.4	263.3	326.5	417.8	507.3	588.1
80°	52.7	50.9	57.9	70.2	80.8	108.8	152.7	194.9	247.5	298.4	342.3
82.5°	22.8	21.1	22.8	29.8	36.9	52.7	77.2	107.1	136.9	172.0	200.1
85°	0.0	0.0	0.0	1.8	8.8	14.0	26.3	38.6	56.2	77.2	94.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5
2.5°	3690.1	3646.2	3642.7	3607.5	3611.1	3612.8	3577.7	3563.7	3576.0	3590.0	3583.0
5°	3528.6	3482.9	3463.6	3430.2	3426.7	3410.9	3396.9	3379.3	3391.6	3403.9	3410.9
7.5°	3388.1	3358.3	3346.0	3337.2	3340.7	3333.7	3305.6	3289.8	3288.0	3293.3	3300.3
10°	3342.5	3317.9	3333.7	3358.3	3375.8	3388.1	3358.3	3331.9	3307.4	3296.8	3296.8
12.5°	3440.8	3409.2	3440.8	3467.1	3502.2	3511.0	3477.6	3449.6	3440.8	3451.3	3472.4
15°	3658.5	3584.7	3583.0	3598.8	3626.9	3640.9	3609.3	3595.3	3595.3	3662.0	3714.6
17.5°	3876.1	3755.0	3704.1	3695.3	3712.9	3718.1	3691.8	3679.5	3711.1	3841.0	3939.3
20°	4028.9	3881.4	3770.8	3749.7	3755.0	3756.8	3735.7	3726.9	3772.6	3930.6	4013.1
22.5°	4013.1	3904.2	3769.1	3742.7	3751.5	3748.0	3728.7	3725.2	3762.0	3899.0	3937.6
25°	3904.2	3820.0	3705.9	3688.3	3702.3	3700.6	3681.3	3672.5	3688.3	3779.6	3783.1
27.5°	3779.6	3705.9	3607.5	3602.3	3625.1	3637.4	3604.0	3577.7	3572.4	3633.9	3619.8
30°	3630.4	3576.0	3497.0	3500.5	3542.6	3549.6	3509.2	3470.6	3460.1	3493.4	3474.1
32.5°	3453.1	3435.5	3393.4	3402.2	3442.5	3456.6	3414.4	3374.1	3361.8	3372.3	3331.9
35°	3302.1	3295.1	3298.6	3314.4	3349.5	3360.0	3324.9	3293.3	3275.8	3238.9	3186.2
37.5°	3145.9	3165.2	3216.1	3245.9	3265.2	3261.7	3242.4	3219.6	3191.5	3123.0	3058.1
40°	3000.1	3049.3	3140.6	3173.9	3181.0	3182.7	3168.7	3149.4	3114.3	3023.0	2949.2
42.5°	2887.8	2942.2	3063.3	3114.3	3117.8	3121.3	3107.2	3091.4	3042.3	2921.1	2849.2
45°	2770.2	2842.2	2984.3	3045.8	3042.3	3040.5	3028.2	3021.2	2963.3	2822.8	2743.8
47.5°	2670.1	2754.4	2907.1	2959.8	2958.0	2956.3	2947.5	2947.5	2889.6	2736.8	2647.3
50°	2571.8	2668.4	2828.1	2872.0	2875.5	2872.0	2868.5	2873.8	2805.3	2642.0	2554.3
52.5°	2464.7	2573.6	2740.3	2780.7	2801.8	2810.6	2810.6	2798.3	2717.5	2547.2	2450.7
55°	2347.1	2450.7	2643.8	2698.2	2715.8	2731.6	2731.6	2707.0	2631.5	2459.5	2355.9
57.5°	2201.4	2292.7	2445.4	2499.8	2542.0	2552.5	2552.5	2512.1	2450.7	2285.7	2201.4
60°	2043.4	2122.4	2226.0	2283.9	2315.5	2294.4	2310.2	2299.7	2250.5	2097.8	2027.6
62.5°	1832.7	1913.5	2027.6	2087.3	2101.3	2080.3	2101.3	2099.6	2032.9	1895.9	1811.7
65°	1681.8	1760.8	1873.1	1950.4	1973.2	1967.9	1982.0	1960.9	1878.4	1748.5	1667.7
67.5°	1502.7	1587.0	1716.9	1802.9	1850.3	1855.6	1874.9	1831.0	1746.7	1604.5	1502.7
70°	1332.4	1404.4	1504.5	1585.2	1651.9	1685.3	1688.8	1625.6	1520.3	1402.6	1328.9
72.5°	1153.4	1227.1	1348.2	1436.0	1520.3	1558.9	1558.9	1481.6	1367.5	1237.6	1158.6
75°	935.7	1004.1	1114.7	1209.5	1306.1	1355.2	1353.5	1286.8	1160.4	1037.5	955.0
77.5°	633.7	684.6	754.9	826.8	840.9	879.5	898.8	814.6	744.3	677.6	603.9
80°	368.7	400.3	438.9	479.3	488.0	500.3	468.7	437.1	400.3	356.4	323.0
82.5°	215.9	237.0	256.3	287.9	293.2	296.7	268.6	254.5	224.7	198.4	177.3
85°	105.3	112.4	129.9	145.7	138.7	135.2	122.9	108.8	96.6	86.0	75.5
87.5°	21.1	21.1	31.6	29.8	24.6	21.1	12.3	15.8	3.5	3.5	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5
2.5°	3605.8	3635.6	3672.5	3721.7	3777.8	3837.5	3895.5	3939.3	3983.2	4048.2	4037.6
5°	3421.5	3472.4	3530.3	3605.8	3697.1	3800.7	3916.5	4032.4	4157.0	4262.4	4308.0
7.5°	3314.4	3370.6	3439.0	3537.3	3654.9	3781.3	3944.6	4132.4	4334.3	4473.0	4559.0
10°	3314.4	3386.4	3475.9	3570.7	3674.3	3804.2	4006.0	4241.3	4501.1	4683.7	4783.7
12.5°	3505.7	3577.7	3597.0	3593.5	3651.4	3795.4	4055.2	4355.4	4666.1	4859.2	4982.1
15°	3804.2	3828.7	3683.0	3549.6	3558.4	3732.2	4078.0	4446.7	4808.3	5040.0	5173.5
17.5°	4004.3	3939.3	3679.5	3446.0	3396.9	3625.1	4078.0	4534.5	4959.3	5220.9	5345.5
20°	4020.1	3858.6	3590.0	3346.0	3219.6	3482.9	4049.9	4601.2	5105.0	5394.6	5528.1
22.5°	3881.4	3721.7	3495.2	3260.0	3073.9	3310.9	4004.3	4652.1	5229.6	5557.9	5722.9
25°	3723.4	3590.0	3398.6	3172.2	2973.8	3137.1	3962.2	4738.1	5403.4	5779.1	5945.9
27.5°	3568.9	3456.6	3282.8	3098.5	2917.6	2986.1	3935.8	4864.5	5610.6	6093.3	6237.3
30°	3418.0	3316.1	3158.1	3028.2	2887.8	2887.8	3913.0	5010.2	5884.4	6446.2	6590.1
32.5°	3265.2	3168.7	3040.5	2959.8	2870.2	2849.2	3849.8	5147.1	6167.1	6832.4	6979.9
35°	3123.0	3026.5	2928.2	2894.8	2861.5	2819.3	3693.6	5254.2	6442.7	7283.6	7410.0
37.5°	2989.6	2896.6	2822.8	2814.1	2817.6	2738.6	3447.8	5343.7	6786.8	7745.3	7812.0
40°	2873.8	2770.2	2712.2	2710.5	2728.0	2608.7	3137.1	5471.9	7180.0	8136.7	8108.6
42.5°	2770.2	2661.3	2591.1	2606.9	2596.4	2478.8	2833.4	5589.5	7522.3	8503.6	8447.5
45°	2668.4	2563.0	2464.7	2487.5	2475.3	2398.0	2575.3	5675.5	7901.5	8944.3	8951.3
47.5°	2570.1	2466.5	2368.2	2340.1	2338.3	2373.4	2376.9	5703.6	8519.4	9653.5	9493.7
50°	2478.8	2375.2	2273.4	2178.6	2215.4	2324.3	2229.5	5682.5	9444.6	10436.4	9990.5
52.5°	2384.0	2285.7	2173.3	2003.0	2099.6	2206.7	2097.8	5607.1	10009.9	11128.1	10861.3
55°	2275.1	2182.1	2029.4	1822.2	1939.8	1962.6	1962.6	4876.8	10250.4	11812.8	11977.8
57.5°	2129.4	2006.5	1764.3	1597.5	1702.8	1615.1	1818.7	3412.7	9853.6	11596.8	12237.6
60°	1964.4	1832.7	1576.4	1457.1	1488.7	1334.2	1550.1	2140.0	8166.6	9867.7	10977.1
62.5°	1746.7	1625.6	1413.2	1320.1	1255.2	1088.4	1248.2	1353.5	5598.3	7327.5	8084.1
65°	1601.0	1467.6	1278.0	1155.1	1021.7	876.0	828.6	888.3	3010.7	4100.8	4611.7
67.5°	1429.0	1297.3	1118.3	963.8	856.7	751.4	668.8	647.8	1032.2	1365.8	1478.1
70°	1265.7	1139.3	990.1	846.2	739.1	635.5	554.7	496.8	477.5	474.0	467.0
72.5°	1098.9	981.3	856.7	723.3	605.6	510.9	438.9	372.2	344.1	335.3	326.5
75°	900.6	807.5	682.9	538.9	444.1	356.4	300.2	256.3	231.7	222.9	212.4
77.5°	579.3	537.2	428.3	347.6	268.6	212.4	182.6	154.5	138.7	135.2	126.4
80°	309.0	287.9	237.0	200.1	159.8	129.9	114.1	98.3	89.5	86.0	82.5
82.5°	172.0	156.2	131.7	115.9	93.0	79.0	70.2	63.2	57.9	56.2	54.4
85°	77.2	66.7	52.7	49.2	43.9	40.4	38.6	35.1	33.4	31.6	29.8
87.5°	3.5	7.0	8.8	7.0	7.0	10.5	12.3	12.3	10.5	10.5	8.8
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: P637765

CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5	3844.5
2.5°	4102.6	4155.3	4160.5	4178.1	4155.3	4150.0	4113.1	4092.1	4072.8	4067.5
5°	4422.1	4527.4	4569.6	4599.4	4571.3	4557.3	4476.5	4392.3	4344.9	4322.0
7.5°	4750.4	4908.4	4990.9	5027.7	5031.3	4968.1	4829.4	4671.4	4592.4	4562.5
10°	5043.5	5238.4	5347.2	5417.5	5392.9	5315.7	5126.1	4911.9	4811.8	4785.5
12.5°	5261.2	5447.3	5531.6	5577.2	5575.5	5533.3	5354.3	5122.5	5008.4	4982.1
15°	5401.7	5512.3	5517.5	5528.1	5557.9	5614.1	5521.0	5306.9	5180.5	5143.6
17.5°	5512.3	5468.4	5385.9	5357.8	5424.5	5580.7	5636.9	5463.1	5326.2	5294.6
20°	5582.5	5361.3	5215.6	5161.2	5238.4	5493.0	5707.1	5603.6	5461.4	5421.0
22.5°	5636.9	5261.2	5026.0	4989.1	5069.9	5398.2	5779.1	5770.3	5614.1	5557.9
25°	5722.9	5194.5	4892.6	4866.2	4941.7	5352.5	5875.7	5996.8	5858.1	5777.3
27.5°	5858.1	5187.5	4824.1	4815.3	4918.9	5392.9	6014.3	6328.6	6154.8	6095.1
30°	6045.9	5254.2	4839.9	4857.5	4983.9	5538.6	6230.3	6707.8	6534.0	6440.9
32.5°	6316.3	5433.3	5080.4	5155.9	5248.9	5772.1	6546.3	7118.5	6986.9	6850.0
35°	6672.7	5924.8	5791.4	6112.6	6024.9	6282.9	6927.2	7617.1	7457.4	7338.0
37.5°	7148.4	6932.5	7055.3	7497.7	7285.3	7248.5	7392.4	8070.0	7982.3	7862.9
40°	7815.5	7859.4	8085.8	8666.9	8359.7	8122.7	7962.9	8410.6	8440.4	8293.0
42.5°	8257.9	8459.7	9005.7	9665.8	9242.7	8675.7	8440.4	8846.0	8847.7	8714.3
45°	8422.9	8951.3	10092.4	10852.5	10145.0	8991.7	8703.8	9437.6	9420.0	9267.3
47.5°	8363.2	9365.6	11221.1	12383.3	11303.7	9216.4	8666.9	10280.2	10422.4	10190.7
50°	8238.6	9781.6	12539.5	14258.2	12725.6	9455.1	8610.7	11214.1	11449.4	11270.3
52.5°	8365.0	10245.1	14098.4	16196.2	14509.2	9836.1	8989.9	12413.1	12371.0	12155.1
55°	8765.2	10792.8	15992.6	18631.1	16468.3	10480.3	9964.2	13556.0	13127.6	12869.6
57.5°	8745.9	11184.3	17653.3	20556.9	18172.9	11008.7	10303.0	13677.1	12811.6	12485.1
60°	7938.4	11005.2	18285.3	21775.2	18687.3	10717.3	9188.3	12216.5	10810.4	10468.0
62.5°	5924.8	9765.8	17059.9	20249.7	17232.0	9256.7	6909.6	8768.7	7768.1	7190.5
65°	3790.1	7639.9	14342.4	16405.1	14203.7	7079.9	4114.9	4701.2	3683.0	3518.0
67.5°	1613.3	5392.9	11149.2	10964.8	10626.0	4587.1	1588.7	1323.6	986.6	969.0
70°	533.7	3669.0	6872.8	7313.4	6346.1	3159.9	524.9	444.1	442.4	426.6
72.5°	349.3	1969.7	3869.1	4308.0	4083.3	1818.7	317.7	296.7	303.7	296.7
75°	208.9	428.3	651.3	846.2	651.3	305.5	191.3	187.8	191.3	182.6
77.5°	122.9	119.4	115.9	115.9	114.1	105.3	96.6	93.0	94.8	96.6
80°	79.0	75.5	72.0	70.2	61.4	57.9	54.4	50.9	50.9	52.7
82.5°	50.9	47.4	43.9	38.6	31.6	26.3	24.6	21.1	21.1	22.8
85°	26.3	21.1	15.8	12.3	7.0	3.5	0.0	0.0	0.0	0.0
87.5°	5.3	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)