

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: P637766

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
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-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14827.3 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

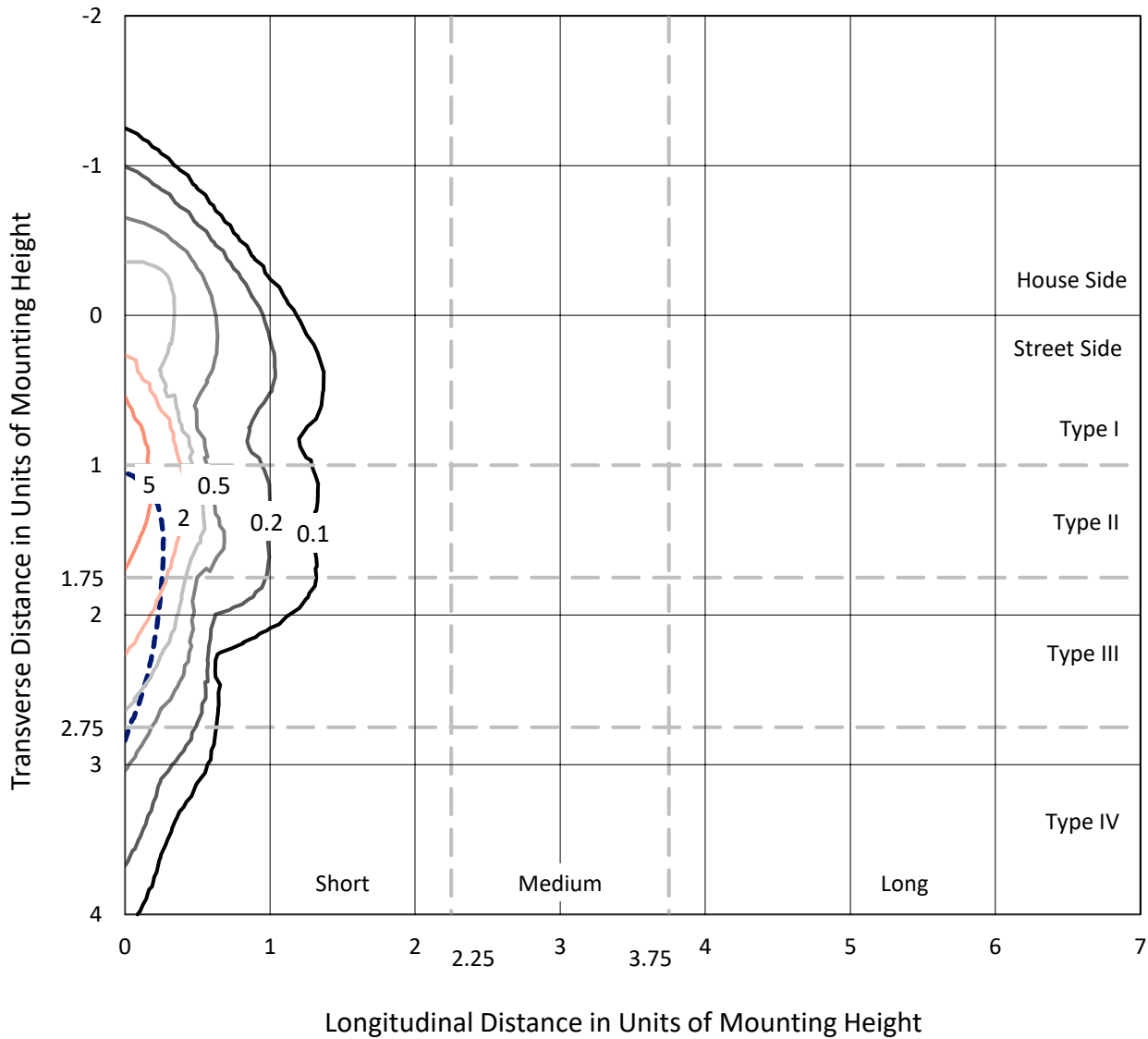
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637766
 CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

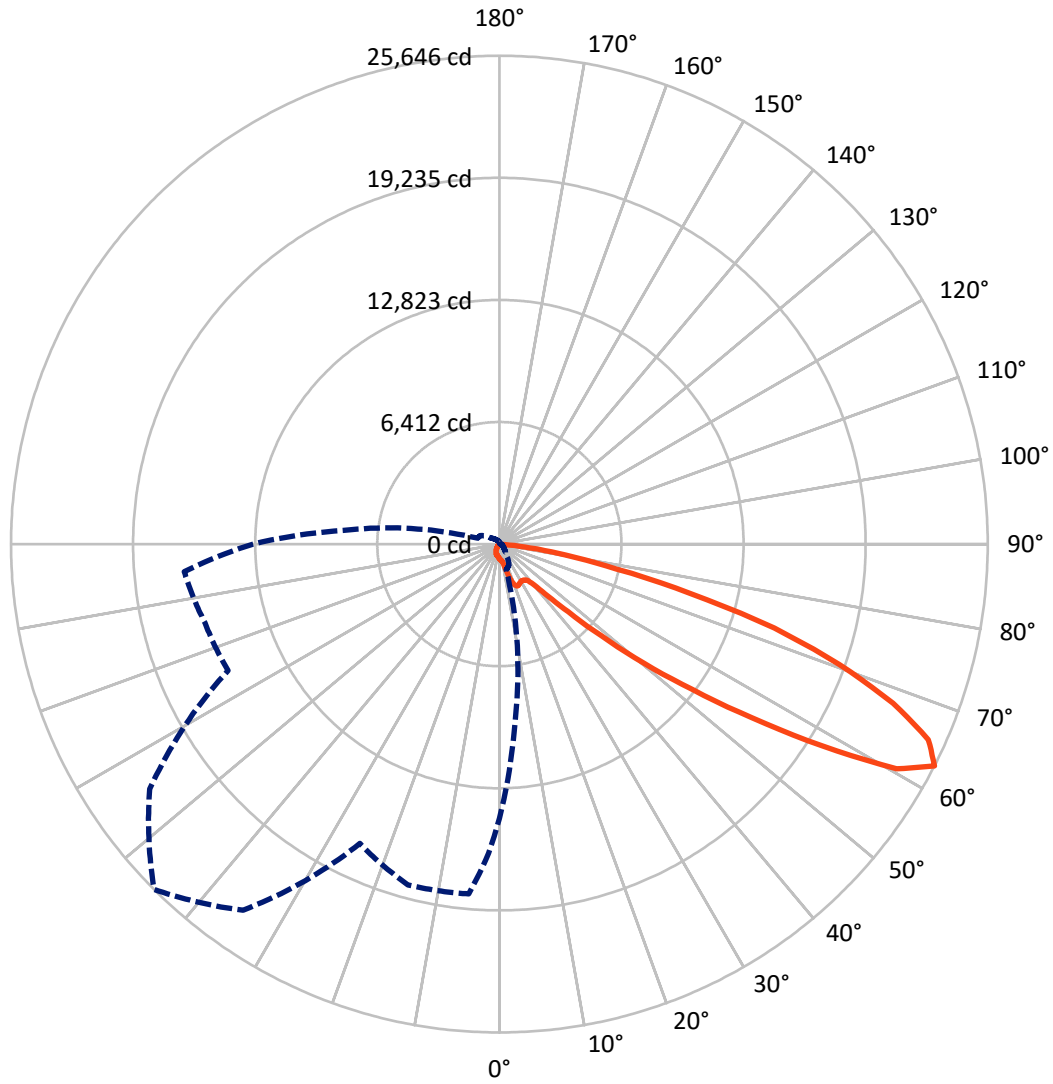
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

REPORT NUMBER: P637766
CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P637766
 CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.7	0.0	1722.7
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	13104.6	0.0	13104.6
	% Fixture	88.4	0.0	88.4
Total	Lumens	14827.3	0.0	14827.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	0.4
10°-20°	227.6	1.5
20°-30°	514.2	3.5
30°-40°	885.8	6.0
40°-50°	1670.9	11.3
50°-60°	3730.7	25.2
60°-70°	4989.7	33.7
70°-80°	2502.2	16.9
80°-90°	239.8	1.6
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°	14827.3	100.0
0°-180°	14827.3	100.0

Coefficient of Utilization

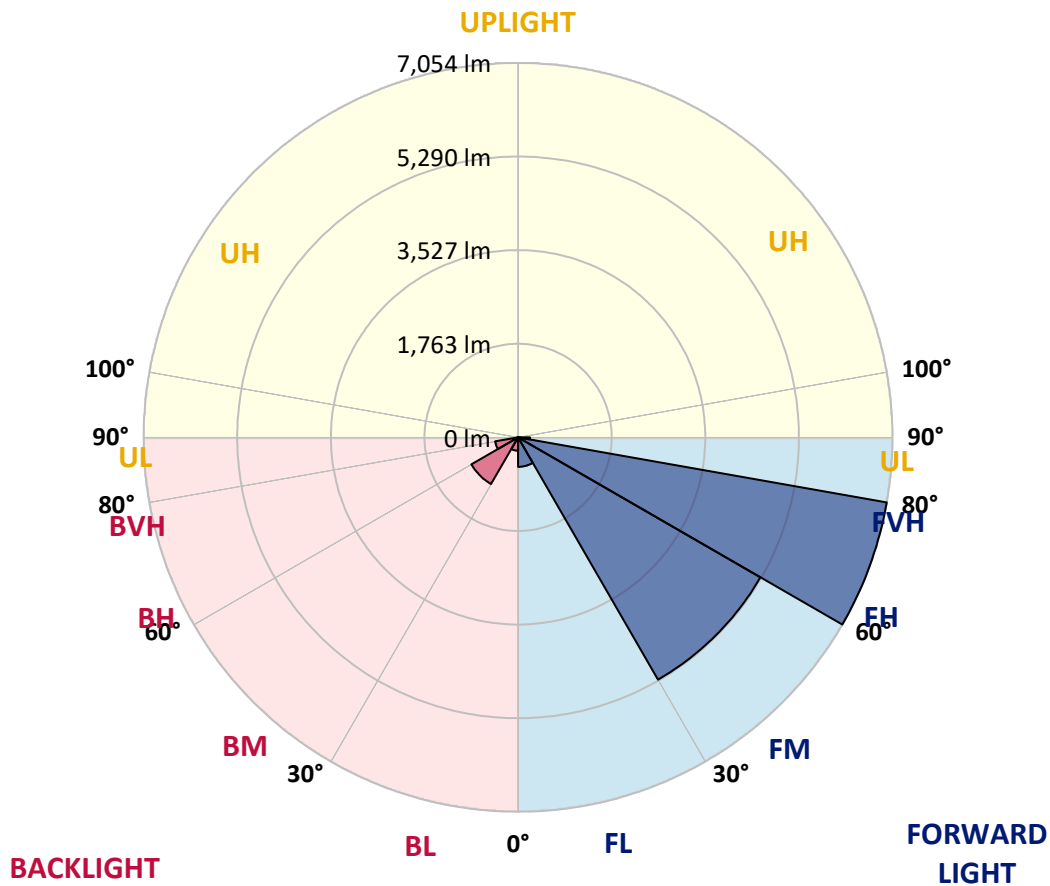


REPORT NUMBER: P637766
 CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.3	3.7			
FM (30°-60°)	5271.5	35.6			
FH (60°-80°)	7053.8	47.6			G3/7500
FVH (80°-90°)	223.9	1.5			G2/225
BL (0°-30°)	252.9	1.7	B1/500		
BM (30°-60°)	1015.8	6.9	B2/2500		
BH (60°-80°)	438.1	3.0	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





REPORT NUMBER: P637766

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

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	760.2	758.4	754.9	744.4	735.6	730.3	719.8	719.8	718.1	714.5	707.5
5°	735.6	728.6	721.6	702.3	681.2	668.9	654.8	653.1	653.1	649.6	647.8
7.5°	697.0	690.0	681.2	649.6	630.3	618.0	605.7	603.9	598.7	598.7	598.7
10°	675.9	665.4	651.3	616.2	596.9	586.4	577.6	572.3	568.8	563.6	561.8
12.5°	721.6	702.3	672.4	609.2	582.9	568.8	558.3	554.8	544.2	537.2	532.0
15°	863.8	816.4	756.7	625.0	577.6	556.5	542.5	535.5	526.7	514.4	505.6
17.5°	1097.3	1028.8	928.7	675.9	572.3	546.0	528.4	516.2	503.9	489.8	479.3
20°	1420.3	1318.5	1199.1	769.0	572.3	533.7	512.6	496.8	479.3	463.5	451.2
22.5°	1831.1	1729.3	1525.6	927.0	579.4	517.9	493.3	472.3	451.2	437.2	423.1
25°	2291.1	2147.1	1957.5	1118.3	598.7	496.8	470.5	449.4	430.1	412.6	396.8
27.5°	2803.7	2647.5	2394.7	1390.5	640.8	475.8	445.9	426.6	409.1	391.5	370.4
30°	3276.0	3183.0	2924.9	1717.0	709.3	461.7	426.6	409.1	391.5	368.7	349.4
32.5°	3843.1	3678.0	3465.6	2089.2	800.6	447.7	410.8	386.2	372.2	351.1	330.1
35°	4413.6	4273.2	3994.1	2547.4	902.4	433.6	391.5	368.7	356.4	331.8	309.0
37.5°	5001.8	4970.2	4694.5	3054.8	1002.5	417.8	368.7	354.6	342.3	314.3	287.9
40°	5581.1	5523.2	5268.6	3634.2	1063.9	400.3	349.4	340.6	326.5	294.9	265.1
42.5°	6135.9	6092.0	5844.5	4188.9	1055.1	384.5	330.1	319.5	309.0	277.4	240.5
45°	6817.1	6745.1	6432.6	4599.7	965.6	402.0	310.7	293.2	291.4	261.6	215.9
47.5°	8091.7	7854.7	7324.5	4915.8	876.1	447.7	289.7	268.6	280.9	245.8	191.4
50°	9877.2	9598.0	8830.8	5161.5	874.3	507.4	286.2	245.8	272.1	233.5	170.3
52.5°	11671.4	11179.8	10247.6	5293.2	939.3	551.3	317.8	223.0	261.6	221.2	154.5
55°	13390.2	12370.2	10841.0	4857.8	990.2	598.7	375.7	210.7	242.3	207.2	145.7
57.5°	15028.2	13327.0	11099.1	3843.1	1160.5	618.0	410.8	215.9	214.2	189.6	138.7
60°	15252.9	13281.3	10577.7	2234.9	1279.9	584.6	396.8	240.5	187.9	168.5	126.4
62.5°	14403.2	12398.2	9389.1	1394.0	1188.6	572.3	352.9	273.9	170.3	149.2	110.6
65°	13112.8	11013.1	7828.3	898.9	900.6	635.5	309.0	268.6	159.8	131.7	94.8
67.5°	11095.6	9217.0	6167.5	602.2	509.1	542.5	270.4	184.3	156.3	112.4	73.7
70°	8098.7	6560.8	4015.1	402.0	303.7	433.6	226.5	131.7	147.5	93.0	52.7
72.5°	5920.0	4408.4	2241.9	263.3	172.1	252.8	166.8	94.8	114.1	68.5	36.9
75°	4260.9	3033.7	1279.9	168.5	114.1	138.7	108.8	65.0	73.7	54.4	33.4
77.5°	2050.6	1478.2	581.1	93.0	77.2	70.2	57.9	40.4	45.6	49.2	29.8
80°	77.2	57.9	43.9	45.6	49.2	31.6	26.3	21.1	26.3	33.4	15.8
82.5°	0.0	0.0	0.0	5.3	7.0	8.8	10.5	8.8	10.5	12.3	1.8
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: P637766
 CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	712.8	709.3	712.8	716.3	719.8	723.3	718.1	721.6	725.1	716.3	719.8
5°	656.6	654.8	665.4	670.6	677.7	681.2	677.7	677.7	675.9	665.4	665.4
7.5°	607.4	609.2	618.0	630.3	639.0	644.3	640.8	639.0	633.8	618.0	618.0
10°	570.6	570.6	584.6	595.2	607.4	612.7	609.2	603.9	598.7	582.9	581.1
12.5°	540.7	540.7	551.3	568.8	582.9	589.9	588.1	581.1	572.3	556.5	554.8
15°	512.6	510.9	526.7	542.5	561.8	570.6	567.1	561.8	546.0	532.0	528.4
17.5°	484.6	482.8	496.8	517.9	539.0	551.3	549.5	537.2	523.2	505.6	502.1
20°	456.5	453.0	470.5	491.6	512.6	524.9	521.4	510.9	493.3	475.8	472.3
22.5°	428.4	426.6	438.9	456.5	475.8	486.3	484.6	475.8	458.2	442.4	442.4
25°	396.8	396.8	405.6	417.8	431.9	437.2	438.9	435.4	424.9	416.1	416.1
27.5°	370.4	365.2	368.7	372.2	379.2	388.0	388.0	391.5	393.3	389.7	391.5
30°	349.4	340.6	335.3	328.3	324.8	328.3	331.8	344.1	356.4	363.4	366.9
32.5°	324.8	314.3	300.2	280.9	268.6	265.1	275.6	298.5	321.3	337.1	345.9
35°	300.2	286.2	259.8	231.7	215.9	210.7	223.0	249.3	282.7	310.7	323.0
37.5°	275.6	256.3	219.5	186.1	168.5	165.0	177.3	205.4	244.0	282.7	298.5
40°	247.5	224.7	180.8	145.7	131.7	128.2	138.7	166.8	207.2	251.1	275.6
42.5°	219.5	191.4	145.7	115.9	101.8	101.8	115.9	136.9	173.8	221.2	251.1
45°	191.4	161.5	119.4	93.0	84.3	86.0	94.8	115.9	145.7	194.9	223.0
47.5°	165.0	138.7	98.3	77.2	70.2	72.0	82.5	100.1	124.6	168.5	198.4
50°	142.2	117.6	86.0	65.0	59.7	63.2	73.7	89.5	110.6	149.2	173.8
52.5°	128.2	105.3	79.0	56.2	52.7	56.2	66.7	80.8	100.1	131.7	156.3
55°	121.1	103.6	79.0	50.9	45.6	49.2	59.7	73.7	89.5	119.4	140.5
57.5°	119.4	107.1	84.3	45.6	38.6	42.1	52.7	66.7	82.5	108.8	126.4
60°	112.4	101.8	82.5	36.9	29.8	35.1	43.9	57.9	75.5	101.8	117.6
62.5°	98.3	89.5	72.0	29.8	22.8	26.3	36.9	50.9	68.5	93.0	110.6
65°	80.8	72.0	56.2	19.3	14.0	17.6	28.1	43.9	59.7	84.3	100.1
67.5°	59.7	50.9	38.6	12.3	7.0	12.3	22.8	36.9	54.4	75.5	91.3
70°	36.9	29.8	21.1	7.0	5.3	10.5	21.1	35.1	49.2	70.2	86.0
72.5°	21.1	14.0	8.8	3.5	5.3	10.5	21.1	35.1	47.4	66.7	80.8
75°	15.8	8.8	3.5	1.8	3.5	8.8	19.3	31.6	45.6	63.2	77.2
77.5°	10.5	5.3	1.8	0.0	1.8	7.0	17.6	29.8	42.1	59.7	73.7
80°	1.8	0.0	0.0	0.0	0.0	5.3	15.8	26.3	38.6	52.7	65.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	12.3	22.8	33.4	43.9	52.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	7.0	17.6	26.3	33.4	36.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	17.6	21.1	24.6
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: P637766
 CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	718.1	728.6	728.6	735.6	744.4	760.2	769.0	781.3	790.0	798.8	802.3
5°	663.6	665.4	667.1	670.6	681.2	698.7	714.5	733.9	756.7	774.2	784.8
7.5°	618.0	618.0	618.0	623.2	633.8	646.1	661.9	688.2	714.5	735.6	753.2
10°	579.4	584.6	586.4	595.2	607.4	623.2	640.8	663.6	693.5	721.6	753.2
12.5°	554.8	560.0	568.8	577.6	589.9	607.4	626.8	656.6	718.1	776.0	842.7
15°	532.0	539.0	549.5	561.8	575.8	595.2	616.2	677.7	821.6	930.5	1035.8
17.5°	507.4	517.9	532.0	544.2	561.8	582.9	609.2	728.6	1011.2	1192.1	1371.1
20°	475.8	489.8	505.6	524.9	546.0	570.6	609.2	833.9	1285.1	1545.0	1782.0
22.5°	445.9	460.0	479.3	503.9	528.4	553.0	618.0	993.7	1638.0	1966.3	2266.5
25°	421.4	438.9	458.2	479.3	507.4	535.5	639.0	1218.4	2062.9	2486.0	2698.4
27.5°	398.5	419.6	438.9	456.5	481.0	512.6	686.5	1518.6	2565.0	2995.1	3161.9
30°	375.7	400.3	419.6	437.2	461.7	495.1	758.4	1901.3	3123.3	3541.1	3558.7
32.5°	356.4	379.2	402.0	419.6	442.4	481.0	858.5	2349.0	3695.6	4099.4	3934.4
35°	335.3	361.7	382.7	402.0	426.6	468.8	974.4	2831.8	4273.2	4612.0	4308.3
37.5°	314.3	344.1	370.4	384.5	409.1	456.5	1058.6	3335.7	4863.1	5112.4	4636.6
40°	294.9	328.3	358.1	372.2	384.5	440.7	1070.9	3851.8	5461.8	5605.7	4945.6
42.5°	273.9	310.7	337.1	356.4	366.9	430.1	997.2	4287.2	5963.9	6097.3	5349.4
45°	251.1	294.9	316.0	330.1	351.1	437.2	902.4	4624.3	6538.0	6767.9	6014.8
47.5°	228.2	277.4	294.9	305.5	333.6	479.3	867.3	4849.0	7484.2	7961.8	7136.6
50°	207.2	261.6	280.9	279.1	330.1	533.7	905.9	5019.3	8906.3	9468.1	8674.6
52.5°	184.3	244.0	266.9	259.8	356.4	575.8	983.2	5154.5	10000.1	11234.3	10740.9
55°	165.0	224.7	245.8	244.0	405.6	607.4	1042.8	4441.7	10453.0	12875.8	13068.9
57.5°	151.0	203.7	221.2	251.1	437.2	607.4	1206.1	3153.1	10461.8	14083.6	16158.8
60°	138.7	184.3	196.6	275.6	424.9	575.8	1193.8	1931.2	9641.9	14001.1	17802.1
62.5°	128.2	166.8	182.6	282.7	375.7	570.6	1078.0	1197.3	8223.4	12935.5	16610.0
65°	119.4	152.7	175.6	259.8	340.6	611.0	726.8	860.3	6669.6	11720.6	15242.4
67.5°	110.6	140.5	186.1	212.4	309.0	546.0	524.9	611.0	5235.3	10388.1	13987.1
70°	103.6	133.4	196.6	173.8	270.4	426.6	372.2	463.5	4008.1	8667.5	12219.2
72.5°	98.3	124.6	165.0	136.9	219.5	330.1	259.8	337.1	2619.4	6766.2	9961.4
75°	93.0	114.1	121.1	110.6	163.3	215.9	196.6	226.5	1560.8	4945.6	7558.0
77.5°	91.3	107.1	98.3	89.5	110.6	128.2	149.2	152.7	761.9	2473.7	3960.7
80°	80.8	96.6	84.3	73.7	75.5	84.3	110.6	101.8	173.8	628.5	1056.9
82.5°	63.2	75.5	70.2	61.4	61.4	61.4	73.7	68.5	56.2	282.7	477.5
85°	43.9	52.7	52.7	49.2	47.4	47.4	45.6	43.9	15.8	17.6	26.3
87.5°	29.8	36.9	38.6	36.9	31.6	28.1	24.6	21.1	7.0	0.0	3.5
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: P637766

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	814.6	819.9	819.9	812.9	807.6	793.5	779.5	765.5	761.9	760.2
5°	814.6	835.7	846.2	844.5	832.2	809.3	779.5	747.9	739.1	735.6
7.5°	802.3	842.7	874.3	879.6	856.7	816.4	761.9	714.5	702.3	697.0
10°	830.4	909.4	972.6	981.4	955.1	876.1	788.3	707.5	688.2	675.9
12.5°	981.4	1111.3	1188.6	1225.4	1174.5	1074.4	928.7	784.8	740.9	721.6
15°	1286.9	1471.2	1618.7	1618.7	1571.3	1394.0	1209.6	976.1	916.4	863.8
17.5°	1678.4	1910.1	2040.0	2026.0	1954.0	1829.4	1608.2	1272.8	1151.7	1097.3
20°	2124.3	2263.0	2292.9	2284.1	2252.5	2180.5	2027.8	1667.8	1504.6	1420.3
22.5°	2510.5	2473.7	2429.8	2394.7	2385.9	2407.0	2385.9	2108.5	1980.3	1831.1
25°	2772.1	2563.2	2431.5	2368.3	2398.2	2519.3	2651.0	2547.4	2445.6	2291.1
27.5°	2914.3	2552.7	2363.1	2298.1	2349.0	2521.1	2807.2	2982.8	2877.5	2803.7
30°	2991.6	2543.9	2319.2	2256.0	2333.2	2549.2	2916.1	3390.1	3393.6	3276.0
32.5°	3102.2	2600.1	2328.0	2270.0	2373.6	2633.4	3053.0	3804.4	3906.3	3843.1
35°	3226.8	2686.1	2368.3	2315.7	2443.8	2745.8	3205.8	4222.3	4434.7	4413.6
37.5°	3344.5	2782.7	2463.1	2412.2	2550.9	2842.4	3353.2	4633.1	4928.0	5001.8
40°	3467.4	2917.9	2754.6	2803.7	2881.0	2995.1	3484.9	4989.5	5470.5	5581.1
42.5°	3757.0	3386.6	3635.9	3729.0	3739.5	3504.2	3772.8	5446.0	6004.2	6135.9
45°	4403.1	4220.5	4935.1	5066.7	4998.3	4285.5	4466.3	6104.3	6750.4	6817.1
47.5°	5219.5	5303.8	6713.5	7168.2	6757.4	5207.2	5307.3	7489.5	8116.3	8091.7
50°	6171.0	6569.6	8732.5	9805.2	8822.0	6404.5	6276.4	9192.5	9952.7	9877.2
52.5°	7296.4	8040.8	11158.8	12682.7	11752.2	7751.1	7698.4	11448.5	11911.9	11671.4
55°	8713.2	9461.1	13950.2	16079.8	14756.1	9394.4	9575.2	14064.3	14153.9	13390.2
57.5°	10827.0	11313.3	17240.3	19975.5	17891.6	11627.5	12939.0	17545.7	16474.8	15028.2
60°	14664.8	13695.7	20419.7	23960.8	21227.3	14768.3	17375.5	19608.6	17247.3	15252.9
62.5°	16000.8	15718.1	22410.6	25646.2	23471.0	17347.4	18528.9	18439.4	16246.6	14403.2
65°	13976.6	15214.3	22054.2	24756.1	23183.1	16922.5	16627.6	17149.0	15119.5	13112.8
67.5°	12910.9	14031.0	20704.1	22300.0	21587.2	15481.1	14821.0	14678.8	12693.2	11095.6
70°	11836.4	12946.0	18746.6	18945.0	18613.2	13132.1	12264.8	11311.5	9487.4	8098.7
72.5°	10544.3	11155.3	16030.6	15089.6	14713.9	10314.3	10131.7	8518.3	7112.0	5920.0
75°	9196.0	9018.7	12498.3	10356.4	10637.4	8025.0	8556.9	6255.3	5210.7	4260.9
77.5°	6688.9	6557.3	8370.8	6290.4	6966.3	5256.4	4722.6	2496.5	2377.1	2050.6
80°	3732.5	4499.7	4520.7	3525.3	4397.8	3427.0	1181.5	82.5	52.7	77.2
82.5°	1734.6	1934.7	2450.9	1634.5	2508.8	1697.7	244.0	0.0	0.0	0.0
85°	561.8	821.6	688.2	240.5	607.4	574.1	40.4	0.0	0.0	0.0
87.5°	33.4	68.5	17.6	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)