

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: P643209

Luminaire Tested: GWS-SA6E-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24003.6 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

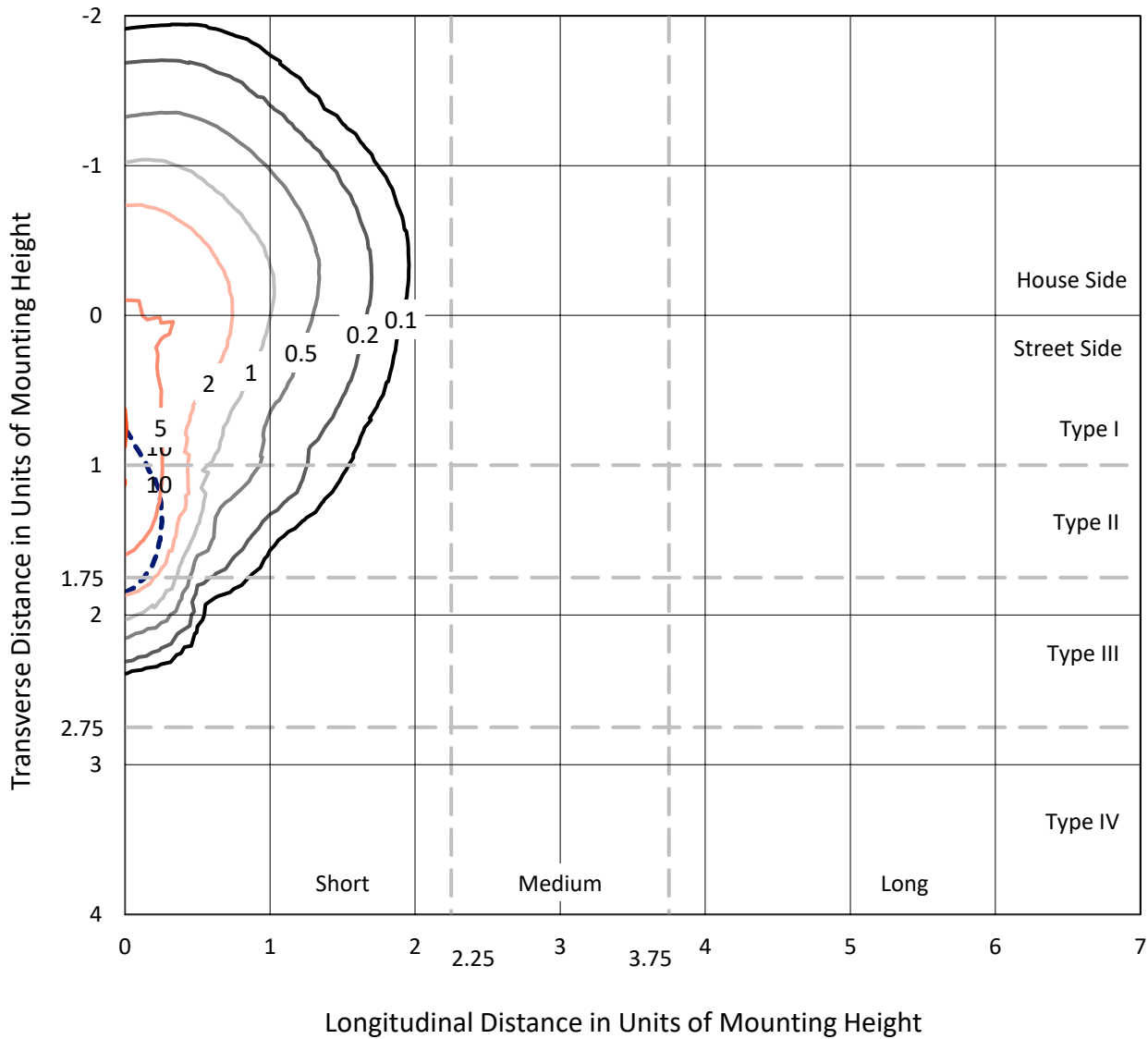
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

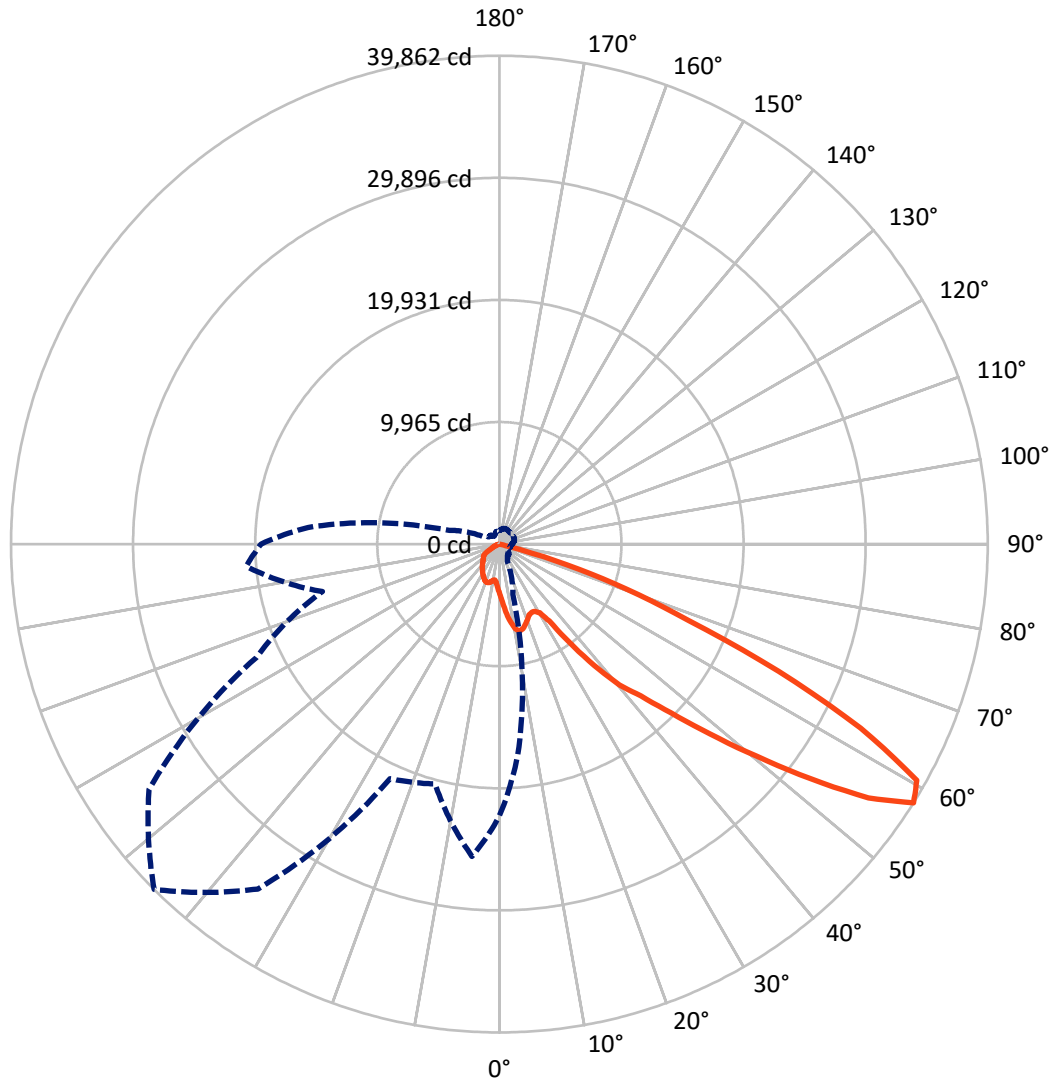
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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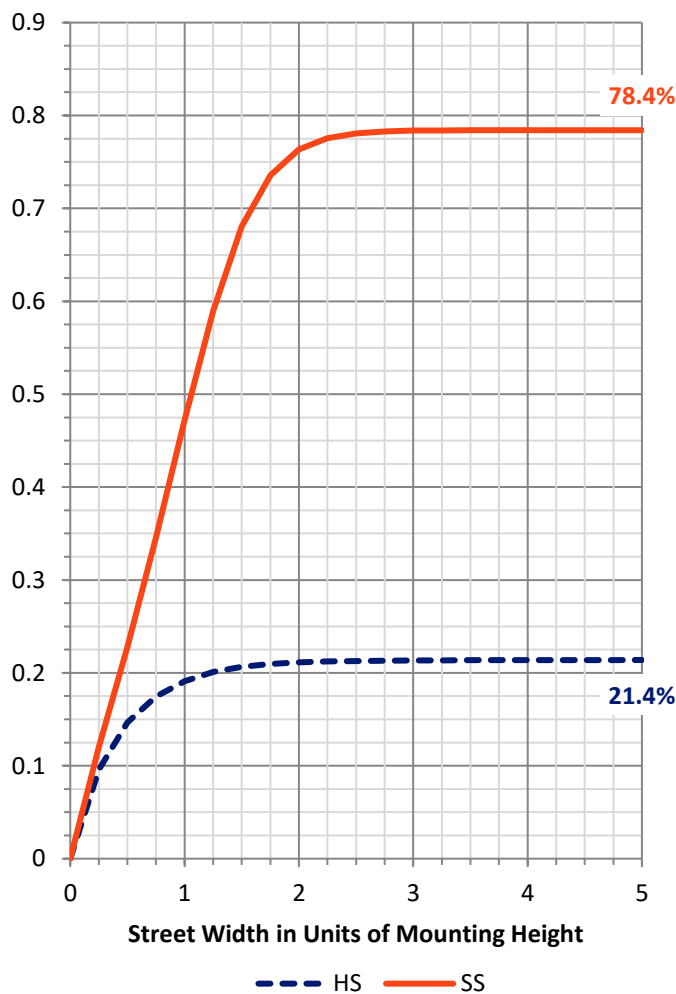
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5171.2	0.0	5171.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	18832.4	0.0	18832.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	24003.6	0.0	24003.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	1.7
10°-20°	1326.5	5.5
20°-30°	2152.7	9.0
30°-40°	3303.9	13.8
40°-50°	5276.5	22.0
50°-60°	7388.1	30.8
60°-70°	3788.1	15.8
70°-80°	364.7	1.5
80°-90°	0.0	0.0
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°	24003.6	100.0
0°-180°	24003.6	100.0

Coefficient of Utilization



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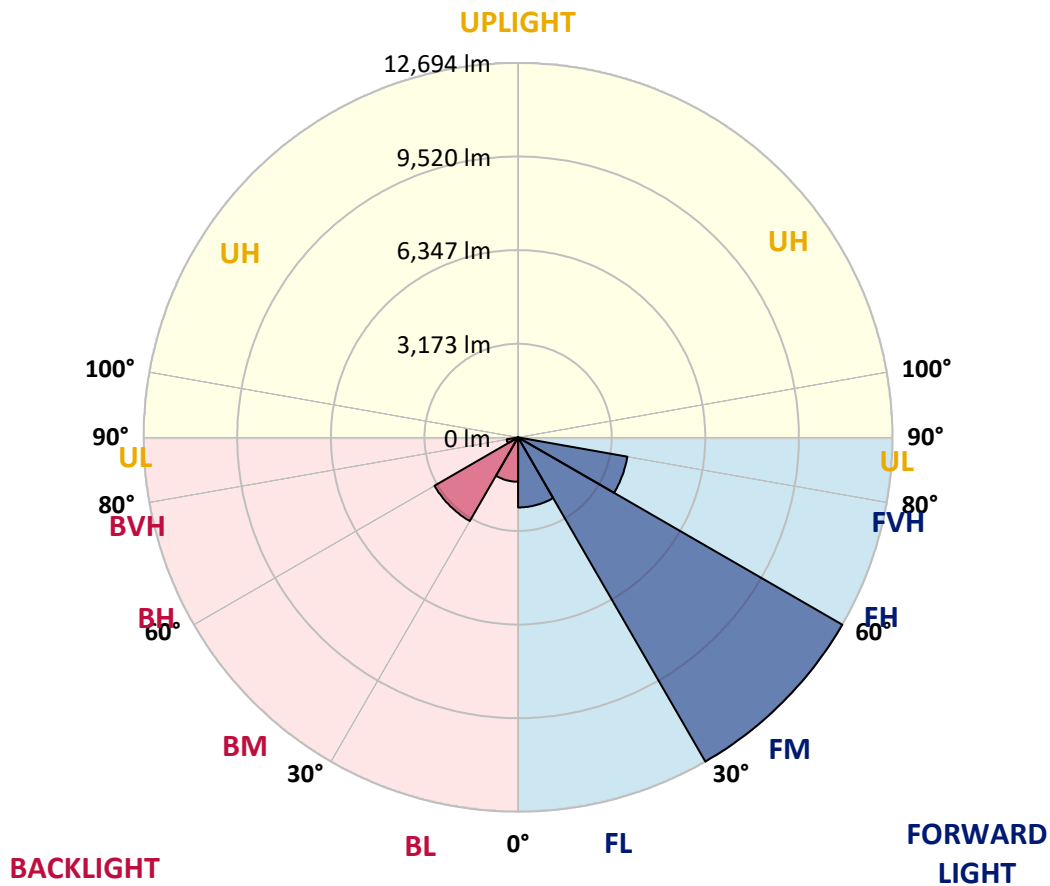
CATALOG NUMBER: GWS-SA6E-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.5	9.9			
FM (30°-60°)	12693.7	52.9			
FH (60°-80°)	3762.2	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1505.8	6.3	B3/2500		
BM (30°-60°)	3274.9	13.6	B3/5000		
BH (60°-80°)	390.6	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6
2.5°	4531.0	4521.4	4489.3	4380.2	4312.8	4206.9	4129.9	4030.4	3921.3	3853.9	3786.6
5°	5012.4	4986.7	4900.1	4649.8	4457.2	4248.6	4081.8	3898.9	3703.1	3574.8	3456.0
7.5°	5474.5	5436.0	5320.4	4896.8	4604.8	4306.4	4068.9	3802.6	3526.6	3334.1	3186.5
10°	5926.9	5840.3	5657.4	5137.5	4742.8	4383.4	4104.2	3799.4	3475.3	3231.4	3067.8
12.5°	6299.2	6235.0	5984.7	5365.4	4858.3	4399.5	4056.1	3773.7	3555.5	3391.9	3241.0
15°	6620.1	6549.5	6312.0	5570.7	4957.8	4335.3	3853.9	3606.9	3642.2	3706.3	3578.0
17.5°	6915.3	6841.5	6584.8	5740.8	4996.3	4178.0	3571.6	3452.8	3648.6	3889.2	3841.1
20°	7220.1	7136.7	6822.2	5878.8	4983.5	3931.0	3286.0	3321.3	3597.2	3873.2	3898.9
22.5°	7576.3	7489.7	7123.9	6055.3	4973.9	3635.7	3038.9	3205.7	3501.0	3735.2	3780.1
25°	8048.0	7945.3	7544.2	6315.2	4999.5	3366.2	2862.4	3093.4	3337.3	3549.1	3574.8
27.5°	8670.6	8539.0	8028.8	6636.1	5054.1	3154.4	2785.4	2939.4	3128.7	3318.0	3340.5
30°	9482.4	9315.6	8583.9	6915.3	5028.4	3006.8	2734.0	2785.4	2897.7	3051.7	3054.9
32.5°	10432.3	10204.4	9206.5	7155.9	4807.0	2897.7	2663.4	2628.1	2653.8	2772.5	2795.0
35°	11549.0	11253.8	9893.2	7383.8	4402.7	2685.9	2535.1	2416.3	2406.7	2464.5	2519.0
37.5°	12829.4	12476.4	10759.6	7675.8	3924.5	2464.5	2345.7	2227.0	2175.7	2204.5	2288.0
40°	14010.2	13618.8	11664.5	8028.8	3436.8	2265.5	2124.3	2002.4	1941.4	1951.0	2053.7
42.5°	15396.5	14992.2	12771.6	8490.9	3032.5	2130.7	1893.3	1768.1	1687.9	1732.8	1851.6
45°	17501.6	17042.7	14385.7	8892.0	2711.6	2098.6	1691.1	1514.6	1476.1	1553.1	1694.3
47.5°	20376.8	19815.2	16603.1	9135.9	2438.8	2127.5	1549.9	1309.2	1318.9	1405.5	1546.7
50°	23229.5	22623.1	19167.0	8815.0	2214.2	2069.8	1479.3	1148.8	1209.8	1286.8	1415.1
52.5°	25190.2	24400.8	20415.3	7887.6	2008.8	1851.6	1472.9	998.0	1113.5	1139.2	1248.3
55°	25267.2	24294.9	19776.7	6218.9	1729.6	1562.8	1405.5	872.8	1007.6	1017.2	1110.3
57.5°	22148.1	21268.9	17283.4	4271.1	1537.1	1145.6	1119.9	763.7	827.9	908.1	965.9
60°	16850.2	16102.5	12925.6	1957.5	1168.1	728.4	766.9	657.8	619.3	738.1	795.8
62.5°	10320.0	9841.8	7752.8	866.4	744.5	388.3	465.3	523.1	465.3	510.2	558.4
65°	4097.8	3886.0	2942.6	369.0	304.8	195.7	211.8	304.8	327.3	359.4	404.3
67.5°	712.4	673.9	494.2	163.7	125.1	118.7	102.7	141.2	199.0	221.4	256.7
70°	93.1	89.9	80.2	67.4	64.2	57.8	44.9	89.9	134.8	141.2	163.7
72.5°	22.5	19.3	19.3	16.0	19.3	6.4	6.4	48.1	96.3	99.5	115.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	61.0	67.4	80.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6
2.5°	3732.0	3667.8	3645.4	3613.3	3571.6	3584.4	3526.6	3507.4	3536.3	3574.8	3565.1
5°	3391.9	3321.3	3273.1	3199.3	3186.5	3157.6	3138.3	3112.7	3144.8	3189.7	3199.3
7.5°	3122.3	3061.3	3013.2	2990.7	2974.7	2961.9	2923.3	2904.1	2904.1	2923.3	2939.4
10°	3006.8	2961.9	2952.2	2958.6	2984.3	2981.1	2945.8	2920.1	2888.0	2872.0	2891.3
12.5°	3167.2	3093.4	3080.6	3083.8	3115.9	3112.7	3074.2	3042.1	3035.7	3042.1	3103.0
15°	3440.0	3327.7	3244.2	3228.2	3244.2	3237.8	3208.9	3189.7	3199.3	3292.4	3395.1
17.5°	3683.9	3510.6	3359.8	3302.0	3298.8	3289.2	3260.3	3253.9	3302.0	3475.3	3626.1
20°	3754.5	3584.4	3369.4	3295.6	3279.5	3269.9	3237.8	3247.5	3308.4	3517.0	3645.4
22.5°	3661.4	3497.7	3273.1	3199.3	3186.5	3183.3	3151.2	3164.0	3215.4	3398.3	3504.2
25°	3484.9	3346.9	3112.7	3048.5	3048.5	3042.1	3013.2	3019.6	3051.7	3212.2	3314.8
27.5°	3269.9	3138.3	2942.6	2878.4	2888.0	2897.7	2862.4	2852.8	2878.4	3029.2	3090.2
30°	3022.8	2929.8	2775.7	2718.0	2714.8	2753.3	2705.1	2692.3	2727.6	2846.3	2859.2
32.5°	2782.2	2737.2	2628.1	2583.2	2586.4	2592.8	2567.2	2567.2	2599.2	2663.4	2660.2
35°	2547.9	2519.0	2499.8	2467.7	2464.5	2451.6	2451.6	2458.1	2493.3	2515.8	2474.1
37.5°	2323.3	2352.2	2374.6	2342.5	2316.9	2316.9	2316.9	2345.7	2377.8	2368.2	2297.6
40°	2124.3	2185.3	2255.9	2220.6	2159.6	2156.4	2169.2	2217.4	2265.5	2207.8	2143.6
42.5°	1954.2	2031.3	2130.7	2111.5	2044.1	2034.5	2044.1	2105.1	2143.6	2069.8	1999.2
45°	1787.4	1883.6	2002.4	2002.4	1928.6	1918.9	1922.2	2002.4	2024.8	1938.2	1848.4
47.5°	1646.2	1752.1	1877.2	1877.2	1816.3	1797.0	1813.1	1896.5	1912.5	1790.6	1707.2
50°	1511.4	1626.9	1764.9	1755.3	1713.6	1697.5	1726.4	1816.3	1797.0	1662.2	1575.6
52.5°	1341.3	1463.3	1652.6	1662.2	1639.8	1643.0	1678.3	1736.0	1681.5	1517.8	1444.0
55°	1187.3	1312.5	1501.8	1553.1	1553.1	1549.9	1566.0	1610.9	1566.0	1370.2	1280.4
57.5°	1020.4	1126.3	1283.6	1296.4	1306.0	1270.7	1293.2	1354.2	1331.7	1164.8	1113.5
60°	837.5	927.4	1017.2	1026.9	985.1	911.3	953.1	1023.7	1039.7	914.5	856.8
62.5°	593.7	680.3	786.2	786.2	744.5	670.7	725.2	786.2	763.7	635.4	600.1
65°	442.8	523.1	603.3	638.6	603.3	551.9	593.7	638.6	603.3	497.4	446.0
67.5°	285.6	340.1	388.3	417.2	423.6	417.2	436.4	423.6	381.9	311.3	282.4
70°	173.3	202.2	227.8	253.5	272.8	282.4	292.0	263.1	221.4	182.9	173.3
72.5°	125.1	150.8	173.3	192.5	215.0	221.4	221.4	202.2	163.7	128.4	118.7
75°	86.6	109.1	128.4	141.2	160.4	166.9	166.9	150.8	121.9	93.1	83.4
77.5°	3.2	22.5	22.5	19.3	25.7	32.1	32.1	38.5	35.3	25.7	22.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6
2.5°	3584.4	3699.9	3732.0	3850.7	3956.6	4062.5	4190.9	4267.9	4383.4	4463.6	4508.6
5°	3231.4	3327.7	3443.2	3619.7	3802.6	4004.8	4248.6	4460.4	4726.8	4922.5	4986.7
7.5°	2974.7	3099.8	3234.6	3456.0	3706.3	3975.9	4319.2	4665.8	5073.3	5339.7	5509.8
10°	2926.6	3054.9	3234.6	3452.8	3716.0	4024.0	4444.4	4893.6	5403.9	5728.0	5920.5
12.5°	3157.6	3295.6	3372.6	3472.1	3671.0	4014.4	4553.5	5124.7	5724.8	6077.7	6283.1
15°	3497.7	3619.7	3494.5	3369.4	3497.7	3911.7	4614.5	5317.2	6007.1	6414.7	6626.5
17.5°	3732.0	3741.6	3468.9	3202.5	3237.8	3725.6	4636.9	5509.8	6308.8	6735.6	6957.0
20°	3709.5	3632.5	3356.6	3061.3	2952.2	3484.9	4611.3	5679.8	6613.6	7059.7	7277.9
22.5°	3536.3	3446.4	3212.2	2923.3	2711.6	3199.3	4566.3	5833.9	6892.8	7399.8	7605.2
25°	3327.7	3231.4	3038.9	2785.4	2557.5	2923.3	4531.0	6045.6	7245.8	7842.7	8003.1
27.5°	3083.8	3000.4	2836.7	2653.8	2493.3	2714.8	4521.4	6324.8	7672.6	8381.8	8494.1
30°	2846.3	2769.3	2641.0	2535.1	2467.7	2592.8	4489.3	6623.3	8182.8	9001.1	9123.0
32.5°	2618.5	2541.5	2461.3	2445.2	2448.4	2547.9	4380.2	6918.5	8789.3	9899.6	9989.4
35°	2422.8	2332.9	2300.8	2339.3	2409.9	2470.9	4072.1	7162.4	9440.7	10878.3	10952.1
37.5°	2236.6	2146.8	2143.6	2236.6	2313.6	2352.2	3709.5	7403.0	10320.0	11873.1	11966.2
40°	2066.6	1976.7	2008.8	2121.1	2182.1	2201.3	3269.9	7768.9	11250.6	12922.4	12871.1
42.5°	1922.2	1829.1	1848.4	1992.8	2047.3	2098.6	2865.6	8073.7	12145.9	13917.2	13901.1
45°	1781.0	1710.4	1697.5	1854.8	1902.9	2108.3	2570.4	8308.0	13297.9	15184.7	15210.4
47.5°	1643.0	1588.4	1591.6	1659.0	1777.8	2156.4	2320.1	8462.0	14969.7	17193.5	16747.5
50°	1517.8	1476.1	1511.4	1434.4	1697.5	2095.4	2105.1	8429.9	16837.3	19118.9	18223.6
52.5°	1379.8	1370.2	1386.3	1200.1	1569.2	1848.4	1902.9	8003.1	17713.4	20434.6	19924.3
55°	1238.7	1235.4	1107.1	959.5	1312.5	1476.1	1630.1	6677.8	17684.5	21134.1	21753.4
57.5°	1071.8	1046.1	840.7	783.0	1020.4	1026.9	1485.7	4373.8	15672.5	19459.0	20742.6
60°	811.9	792.6	616.1	635.4	712.4	657.8	1184.1	2178.9	11712.6	15159.0	16606.3
62.5°	561.6	535.9	458.9	491.0	458.9	375.4	725.2	1078.2	7095.0	9572.3	10884.7
65°	410.7	381.9	314.5	269.6	215.0	215.0	276.0	414.0	2746.9	4068.9	4906.5
67.5°	253.5	240.7	186.1	134.8	131.6	141.2	144.4	205.4	442.8	706.0	863.2
70°	163.7	150.8	125.1	86.6	80.2	83.4	86.6	96.3	112.3	121.9	147.6
72.5°	112.3	105.9	89.9	48.1	38.5	41.7	44.9	44.9	54.6	51.3	61.0
75°	80.2	73.8	64.2	22.5	12.8	16.0	19.3	16.0	19.3	12.8	16.0
77.5°	22.5	22.5	16.0	3.2	0.0	3.2	6.4	6.4	3.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P643209

CATALOG NUMBER: GWS-SA6E-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6	4078.6
2.5°	4624.1	4697.9	4726.8	4685.1	4720.4	4662.6	4640.1	4553.5	4547.1	4531.0
5°	5246.6	5413.5	5513.0	5573.9	5503.3	5426.3	5310.8	5111.8	5050.9	5012.4
7.5°	5859.5	6119.5	6289.5	6369.8	6350.5	6193.3	5984.7	5650.9	5532.2	5474.5
10°	6392.2	6709.9	6915.3	7014.8	6973.0	6835.0	6536.6	6119.5	5962.2	5926.9
12.5°	6764.5	7056.5	7197.7	7284.3	7287.5	7233.0	6950.6	6530.2	6344.1	6299.2
15°	6998.7	7123.9	7127.1	7178.4	7268.3	7390.2	7258.6	6886.4	6687.4	6620.1
17.5°	7146.3	7008.3	6867.1	6880.0	7027.6	7351.7	7486.5	7200.9	6989.1	6915.3
20°	7252.2	6815.8	6552.7	6555.9	6706.7	7197.7	7643.7	7505.7	7287.5	7220.1
22.5°	7319.6	6645.7	6270.3	6260.6	6421.1	7014.8	7788.1	7868.3	7653.3	7576.3
25°	7457.6	6565.5	6100.2	6154.8	6295.9	6957.0	7983.9	8349.7	8150.7	8048.0
27.5°	7704.7	6645.7	6084.2	6209.3	6369.8	7127.1	8324.0	8991.5	8786.1	8670.6
30°	8131.5	6947.4	6331.2	6504.5	6697.1	7573.1	8895.2	9886.8	9591.5	9482.4
32.5°	8818.2	7573.1	7095.0	7467.2	7653.3	8304.7	9752.0	10891.2	10650.5	10432.3
35°	9764.8	9001.1	8946.5	9812.9	9768.0	9691.0	10804.5	12123.4	11760.8	11549.0
37.5°	11067.6	11298.7	11703.0	12563.0	12534.1	11946.9	12187.6	13288.2	13102.1	12829.4
40°	12694.6	13185.5	13872.3	15104.5	14719.4	13981.4	13885.1	14482.0	14331.1	14010.2
42.5°	13654.1	14501.2	15810.5	16917.6	16609.5	15319.5	15210.4	16076.8	15746.3	15396.5
45°	14100.1	15573.0	18140.2	19638.7	18704.9	16208.4	16166.7	18156.2	17970.1	17501.6
47.5°	14305.5	16654.4	20867.8	23136.5	21390.8	16988.1	16837.3	21172.6	20928.7	20376.8
50°	14533.3	18146.6	24153.7	27189.4	24635.1	17870.6	17979.7	23983.6	23881.0	23229.5
52.5°	15033.9	19725.4	28200.2	31823.1	28569.2	19253.7	19940.4	26634.2	25941.1	25190.2
55°	15784.8	21445.4	32410.3	36556.3	32583.6	21111.6	22061.5	28043.0	26098.3	25267.2
57.5°	14953.7	21875.4	34903.7	39861.5	34364.6	21118.1	20267.7	25601.0	22953.6	22148.1
60°	11866.7	20351.1	33944.2	39145.9	32846.7	18753.1	15518.5	19988.5	17389.3	16850.2
62.5°	8022.4	17068.4	29881.7	33106.7	28113.6	14751.5	10085.7	12999.4	10766.0	10320.0
65°	4396.3	12733.1	24144.1	25045.8	22003.7	10303.9	5188.9	5641.3	4296.8	4097.8
67.5°	1213.0	8863.1	17764.7	16615.9	15438.2	6709.9	1341.3	1007.6	718.8	712.4
70°	304.8	5862.7	10644.1	10971.4	9466.4	4296.8	256.7	121.9	96.3	93.1
72.5°	128.4	2522.2	5050.9	5805.0	4845.5	1989.5	93.1	35.3	28.9	22.5
75°	16.0	202.2	430.0	651.4	446.0	215.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)