

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: P640734

Luminaire Tested: GWS-SA5E-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640734
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-SA5E-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20130 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

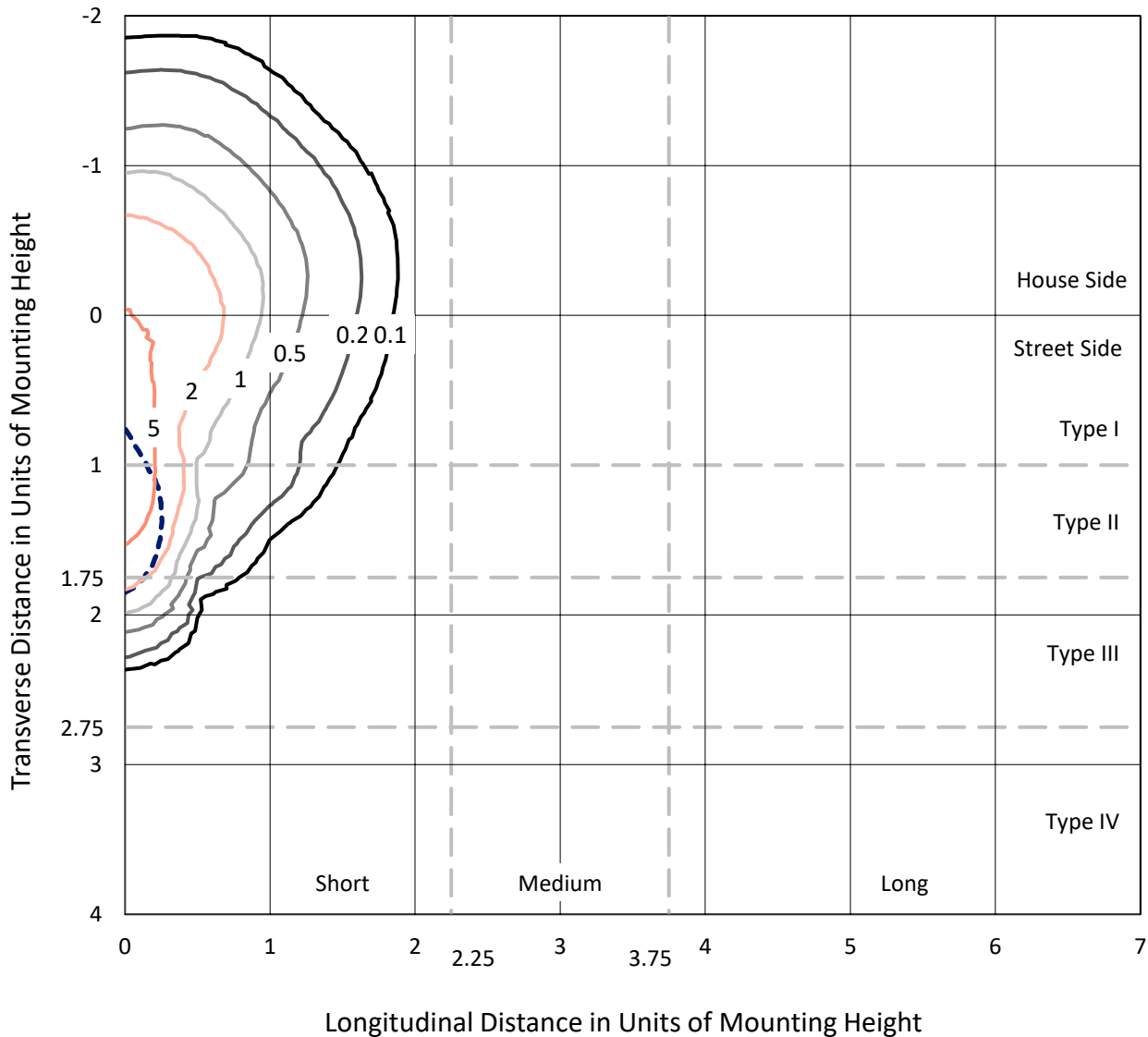
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

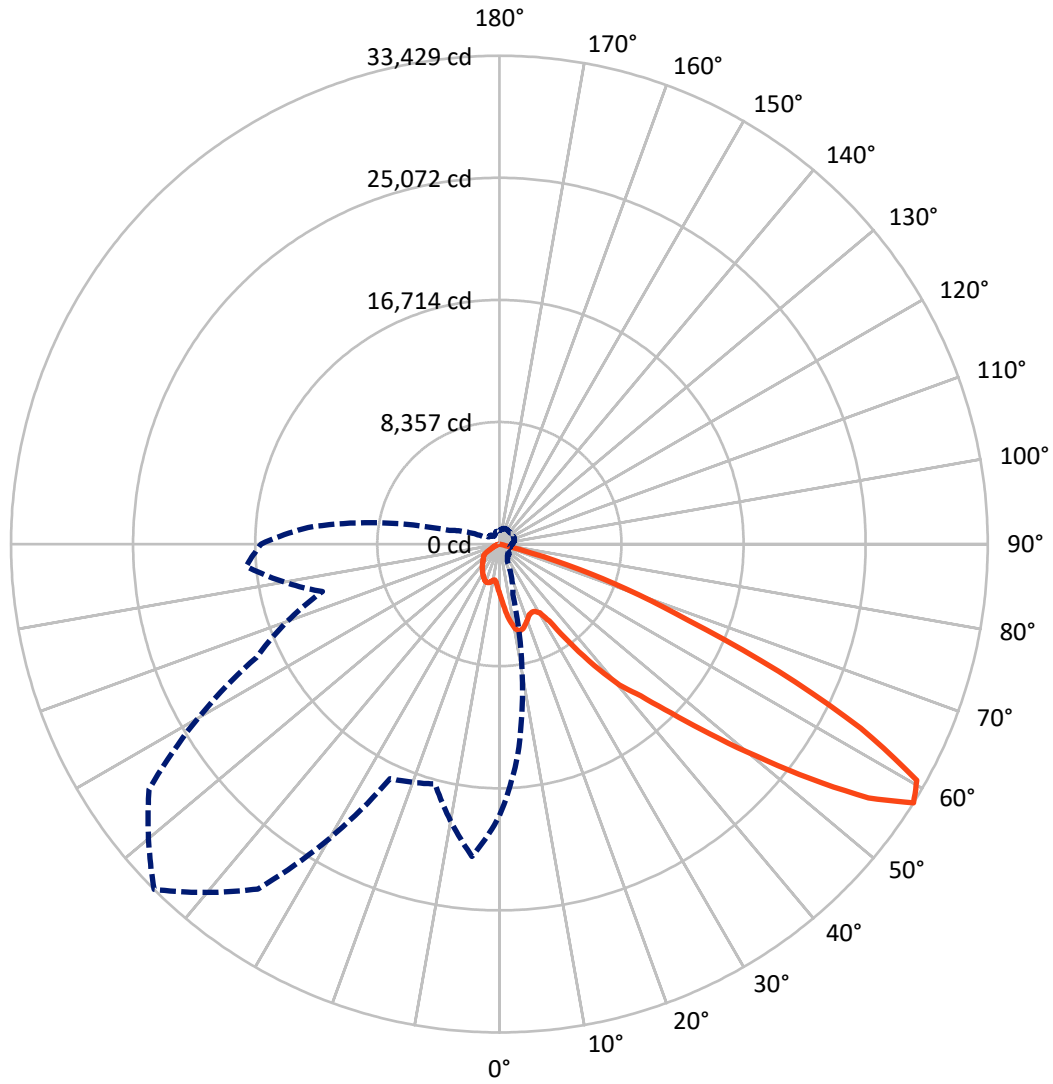
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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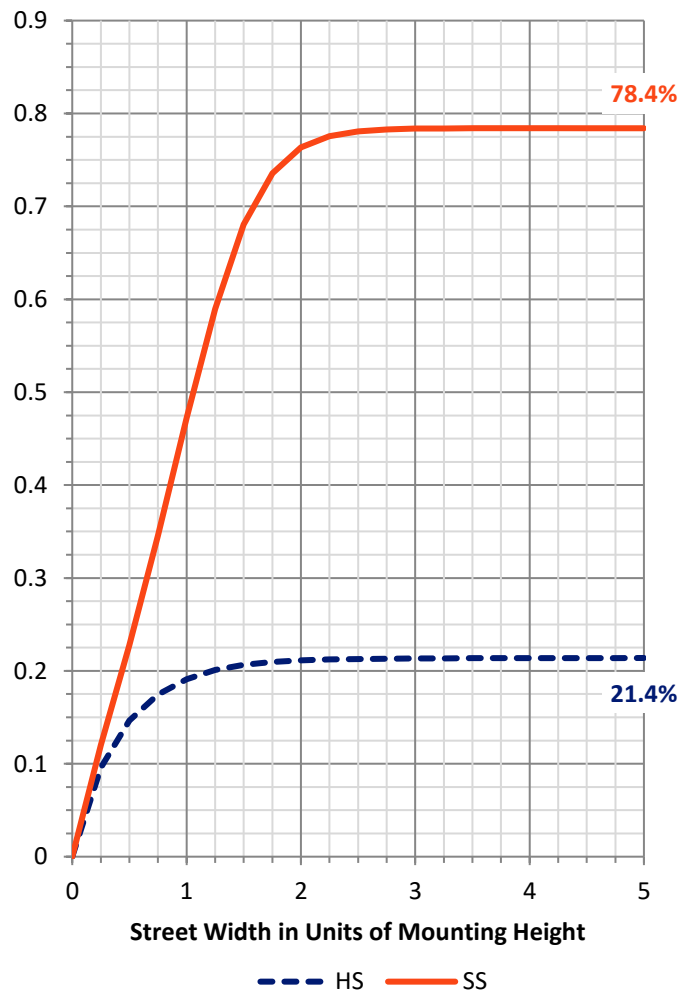
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4336.7	0.0	4336.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	15793.3	0.0	15793.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	20130.0	0.0	20130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	1.7
10°-20°	1112.4	5.5
20°-30°	1805.3	9.0
30°-40°	2770.7	13.8
40°-50°	4425.0	22.0
50°-60°	6195.9	30.8
60°-70°	3176.8	15.8
70°-80°	305.9	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°	20130.0	100.0
0°-180°	20130.0	100.0

Coefficient of Utilization



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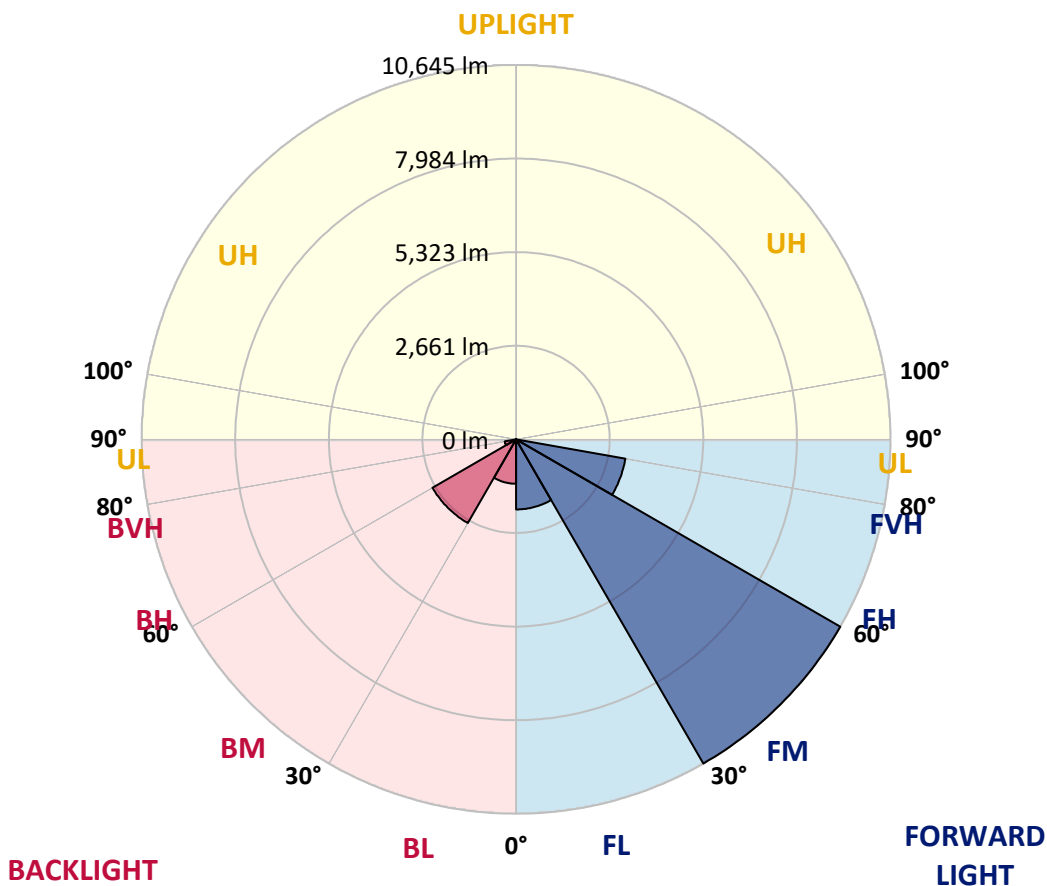
CATALOG NUMBER: GWS-SA5E-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1993.0	9.9			
FM (30°-60°)	10645.2	52.9			
FH (60°-80°)	3155.1	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1262.8	6.3	B3/2500		
BM (30°-60°)	2746.4	13.6	B3/5000		
BH (60°-80°)	327.5	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°	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4
2.5°	3799.8	3791.8	3764.8	3673.3	3616.8	3528.0	3463.4	3380.0	3288.5	3232.0	3175.5
5°	4203.5	4182.0	4109.3	3899.4	3737.9	3563.0	3423.1	3269.7	3105.5	2997.9	2898.3
7.5°	4591.0	4558.7	4461.8	4106.6	3861.7	3611.5	3412.3	3189.0	2957.5	2796.1	2672.3
10°	4970.5	4897.8	4744.4	4308.4	3977.4	3676.0	3441.9	3186.3	2914.5	2709.9	2572.7
12.5°	5282.6	5228.8	5018.9	4499.5	4074.3	3689.5	3401.5	3164.7	2981.7	2844.5	2718.0
15°	5551.7	5492.5	5293.4	4671.7	4157.7	3635.7	3232.0	3024.8	3054.4	3108.2	3000.6
17.5°	5799.3	5737.4	5522.1	4814.4	4190.0	3503.8	2995.2	2895.6	3059.8	3261.6	3221.2
20°	6055.0	5985.0	5721.3	4930.1	4179.3	3296.6	2755.7	2785.3	3016.7	3248.2	3269.7
22.5°	6353.7	6281.0	5974.2	5078.1	4171.2	3049.0	2548.5	2688.4	2936.0	3132.4	3170.1
25°	6749.3	6663.2	6326.8	5296.1	4192.7	2823.0	2400.5	2594.2	2798.7	2976.4	2997.9
27.5°	7271.3	7161.0	6733.1	5565.2	4238.5	2645.3	2335.9	2465.0	2623.8	2782.6	2801.4
30°	7952.2	7812.3	7198.7	5799.3	4217.0	2521.6	2292.8	2335.9	2430.1	2559.2	2561.9
32.5°	8748.8	8557.7	7720.8	6001.1	4031.3	2430.1	2233.6	2204.0	2225.5	2325.1	2343.9
35°	9685.3	9437.7	8296.7	6192.2	3692.2	2252.4	2126.0	2026.4	2018.3	2066.8	2112.5
37.5°	10759.0	10463.0	9023.3	6437.1	3291.2	2066.8	1967.2	1867.6	1824.6	1848.8	1918.8
40°	11749.3	11421.0	9782.1	6733.1	2882.2	1899.9	1781.5	1679.2	1628.1	1636.2	1722.3
42.5°	12911.9	12572.8	10710.6	7120.6	2543.1	1786.9	1587.7	1482.8	1415.5	1453.2	1552.8
45°	14677.2	14292.4	12064.2	7457.0	2274.0	1760.0	1418.2	1270.2	1237.9	1302.5	1420.9
47.5°	17088.5	16617.5	13923.7	7661.6	2045.2	1784.2	1299.8	1098.0	1106.0	1178.7	1297.1
50°	19480.9	18972.2	16073.9	7392.4	1856.9	1735.8	1240.6	963.4	1014.5	1079.1	1186.8
52.5°	21125.1	20463.1	17120.8	6614.7	1684.6	1552.8	1235.2	836.9	933.8	955.3	1046.8
55°	21189.7	20374.3	16585.2	5215.3	1450.5	1310.6	1178.7	732.0	845.0	853.1	931.1
57.5°	18574.0	17836.6	14494.3	3581.9	1289.0	960.7	939.2	640.5	694.3	761.6	810.0
60°	14131.0	13503.9	10839.7	1641.6	979.6	610.9	643.2	551.7	519.4	619.0	667.4
62.5°	8654.6	8253.6	6501.7	726.6	624.3	325.6	390.2	438.6	390.2	427.9	468.3
65°	3436.5	3258.9	2467.7	309.5	255.7	164.2	177.6	255.7	274.5	301.4	339.1
67.5°	597.4	565.1	414.4	137.2	105.0	99.6	86.1	118.4	166.8	185.7	215.3
70°	78.0	75.4	67.3	56.5	53.8	48.4	37.7	75.4	113.0	118.4	137.2
72.5°	18.8	16.1	16.1	13.5	16.1	5.4	5.4	40.4	80.7	83.4	96.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	51.1	56.5	67.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4
2.5°	3129.7	3075.9	3057.1	3030.2	2995.2	3006.0	2957.5	2941.4	2965.6	2997.9	2989.8
5°	2844.5	2785.3	2744.9	2683.0	2672.3	2648.0	2631.9	2610.4	2637.3	2675.0	2683.0
7.5°	2618.4	2567.3	2526.9	2508.1	2494.6	2483.9	2451.6	2435.4	2435.4	2451.6	2465.0
10°	2521.6	2483.9	2475.8	2481.2	2502.7	2500.0	2470.4	2448.9	2422.0	2408.5	2424.7
12.5°	2656.1	2594.2	2583.5	2586.1	2613.1	2610.4	2578.1	2551.2	2545.8	2551.2	2602.3
15°	2884.9	2790.7	2720.7	2707.2	2720.7	2715.3	2691.1	2675.0	2683.0	2761.1	2847.2
17.5°	3089.4	2944.1	2817.6	2769.1	2766.4	2758.4	2734.2	2728.8	2769.1	2914.5	3040.9
20°	3148.6	3006.0	2825.7	2763.8	2750.3	2742.2	2715.3	2723.4	2774.5	2949.4	3057.1
22.5°	3070.5	2933.3	2744.9	2683.0	2672.3	2669.6	2642.7	2653.4	2696.5	2849.9	2938.7
25°	2922.5	2806.8	2610.4	2556.5	2556.5	2551.2	2526.9	2532.3	2559.2	2693.8	2779.9
27.5°	2742.2	2631.9	2467.7	2413.9	2422.0	2430.1	2400.5	2392.4	2413.9	2540.4	2591.5
30°	2535.0	2457.0	2327.8	2279.4	2276.7	2309.0	2268.6	2257.8	2287.4	2387.0	2397.8
32.5°	2333.2	2295.5	2204.0	2166.3	2169.0	2174.4	2152.9	2152.9	2179.8	2233.6	2230.9
35°	2136.7	2112.5	2096.4	2069.5	2066.8	2056.0	2056.0	2061.4	2091.0	2109.8	2074.8
37.5°	1948.4	1972.6	1991.4	1964.5	1943.0	1943.0	1943.0	1967.2	1994.1	1986.0	1926.8
40°	1781.5	1832.6	1891.8	1862.2	1811.1	1808.4	1819.2	1859.5	1899.9	1851.5	1797.7
42.5°	1638.9	1703.5	1786.9	1770.7	1714.2	1706.2	1714.2	1765.4	1797.7	1735.8	1676.6
45°	1498.9	1579.7	1679.2	1679.2	1617.3	1609.3	1612.0	1679.2	1698.1	1625.4	1550.1
47.5°	1380.5	1469.3	1574.3	1574.3	1523.2	1507.0	1520.5	1590.4	1603.9	1501.6	1431.7
50°	1267.5	1364.4	1480.1	1472.0	1437.0	1423.6	1447.8	1523.2	1507.0	1394.0	1321.3
52.5°	1124.9	1227.1	1385.9	1394.0	1375.2	1377.8	1407.4	1455.9	1410.1	1272.9	1211.0
55°	995.7	1100.7	1259.4	1302.5	1302.5	1299.8	1313.3	1350.9	1313.3	1149.1	1073.7
57.5°	855.8	944.6	1076.4	1087.2	1095.3	1065.7	1084.5	1135.6	1116.8	976.9	933.8
60°	702.4	777.7	853.1	861.2	826.2	764.3	799.3	858.5	871.9	767.0	718.5
62.5°	497.9	570.5	659.3	659.3	624.3	562.4	608.2	659.3	640.5	532.8	503.2
65°	371.4	438.6	505.9	535.5	505.9	462.9	497.9	535.5	505.9	417.1	374.1
67.5°	239.5	285.3	325.6	349.8	355.2	349.8	366.0	355.2	320.2	261.0	236.8
70°	145.3	169.5	191.1	212.6	228.7	236.8	244.9	220.7	185.7	153.4	145.3
72.5°	105.0	126.5	145.3	161.5	180.3	185.7	185.7	169.5	137.2	107.6	99.6
75°	72.7	91.5	107.6	118.4	134.6	139.9	139.9	126.5	102.3	78.0	70.0
77.5°	2.7	18.8	18.8	16.1	21.5	26.9	26.9	32.3	29.6	21.5	18.8
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°	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4
2.5°	3006.0	3102.8	3129.7	3229.3	3318.1	3406.9	3514.6	3579.2	3676.0	3743.3	3781.0
5°	2709.9	2790.7	2887.5	3035.6	3189.0	3358.5	3563.0	3740.6	3964.0	4128.1	4182.0
7.5°	2494.6	2599.6	2712.6	2898.3	3108.2	3334.3	3622.2	3912.9	4254.6	4478.0	4620.6
10°	2454.3	2561.9	2712.6	2895.6	3116.3	3374.6	3727.2	4103.9	4531.8	4803.6	4965.1
12.5°	2648.0	2763.8	2828.3	2911.8	3078.6	3366.6	3818.7	4297.7	4800.9	5096.9	5269.2
15°	2933.3	3035.6	2930.6	2825.7	2933.3	3280.4	3869.8	4459.1	5037.7	5379.5	5557.1
17.5°	3129.7	3137.8	2909.1	2685.7	2715.3	3124.4	3888.6	4620.6	5290.7	5648.6	5834.3
20°	3110.9	3046.3	2814.9	2567.3	2475.8	2922.5	3867.1	4763.2	5546.4	5920.4	6103.4
22.5°	2965.6	2890.2	2693.8	2451.6	2274.0	2683.0	3829.4	4892.4	5780.5	6205.7	6377.9
25°	2790.7	2709.9	2548.5	2335.9	2144.8	2451.6	3799.8	5070.0	6076.5	6577.0	6711.6
27.5°	2586.1	2516.2	2378.9	2225.5	2091.0	2276.7	3791.8	5304.2	6434.4	7029.1	7123.3
30°	2387.0	2322.4	2214.8	2126.0	2069.5	2174.4	3764.8	5554.4	6862.3	7548.5	7650.8
32.5°	2195.9	2131.3	2064.1	2050.6	2053.3	2136.7	3673.3	5802.0	7370.9	8302.0	8377.4
35°	2031.8	1956.4	1929.5	1961.8	2021.0	2072.1	3415.0	6006.5	7917.2	9122.8	9184.7
37.5°	1875.7	1800.3	1797.7	1875.7	1940.3	1972.6	3110.9	6208.4	8654.6	9957.1	10035.1
40°	1733.1	1657.7	1684.6	1778.8	1829.9	1846.1	2742.2	6515.1	9435.0	10837.1	10794.0
42.5°	1612.0	1533.9	1550.1	1671.2	1716.9	1760.0	2403.2	6770.8	10185.8	11671.3	11657.8
45°	1493.6	1434.4	1423.6	1555.5	1595.8	1768.1	2155.6	6967.3	11151.9	12734.3	12755.8
47.5°	1377.8	1332.1	1334.8	1391.3	1490.9	1808.4	1945.7	7096.4	12554.0	14418.9	14044.8
50°	1272.9	1237.9	1267.5	1202.9	1423.6	1757.3	1765.4	7069.5	14120.2	16033.6	15282.7
52.5°	1157.2	1149.1	1162.6	1006.5	1315.9	1550.1	1595.8	6711.6	14854.9	17136.9	16709.0
55°	1038.8	1036.1	928.4	804.6	1100.7	1237.9	1367.1	5600.2	14830.6	17723.6	18243.0
57.5°	898.8	877.3	705.1	656.6	855.8	861.2	1246.0	3668.0	13143.3	16318.8	17395.3
60°	680.8	664.7	516.7	532.8	597.4	551.7	993.0	1827.3	9822.5	12712.7	13926.4
62.5°	470.9	449.4	384.8	411.7	384.8	314.9	608.2	904.2	5950.0	8027.5	9128.2
65°	344.5	320.2	263.7	226.1	180.3	180.3	231.4	347.2	2303.6	3412.3	4114.7
67.5°	212.6	201.8	156.1	113.0	110.3	118.4	121.1	172.2	371.4	592.0	723.9
70°	137.2	126.5	105.0	72.7	67.3	70.0	72.7	80.7	94.2	102.3	123.8
72.5°	94.2	88.8	75.4	40.4	32.3	35.0	37.7	37.7	45.7	43.1	51.1
75°	67.3	61.9	53.8	18.8	10.8	13.5	16.1	13.5	16.1	10.8	13.5
77.5°	18.8	18.8	13.5	2.7	0.0	2.7	5.4	5.4	2.7	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	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: P640734

CATALOG NUMBER: GWS-SA5E-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4	3420.4
2.5°	3877.9	3939.8	3964.0	3929.0	3958.6	3910.2	3891.3	3818.7	3813.3	3799.8
5°	4399.9	4539.9	4623.3	4674.4	4615.2	4550.6	4453.8	4286.9	4235.8	4203.5
7.5°	4913.9	5131.9	5274.6	5341.8	5325.7	5193.8	5018.9	4739.0	4639.5	4591.0
10°	5360.7	5627.1	5799.3	5882.7	5847.8	5732.0	5481.8	5131.9	5000.1	4970.5
12.5°	5672.8	5917.7	6036.1	6108.8	6111.5	6065.7	5828.9	5476.4	5320.3	5282.6
15°	5869.3	5974.2	5976.9	6020.0	6095.3	6197.6	6087.3	5775.1	5608.2	5551.7
17.5°	5993.1	5877.4	5758.9	5769.7	5893.5	6165.3	6278.3	6038.8	5861.2	5799.3
20°	6081.9	5715.9	5495.2	5497.9	5624.4	6036.1	6410.2	6294.5	6111.5	6055.0
22.5°	6138.4	5573.3	5258.4	5250.3	5384.9	5882.7	6531.3	6598.6	6418.3	6353.7
25°	6254.1	5506.0	5115.8	5161.5	5279.9	5834.3	6695.5	7002.2	6835.4	6749.3
27.5°	6461.3	5573.3	5102.3	5207.3	5341.8	5976.9	6980.7	7540.5	7368.2	7271.3
30°	6819.2	5826.2	5309.5	5454.9	5616.3	6351.0	7459.7	8291.3	8043.7	7952.2
32.5°	7395.1	6351.0	5950.0	6262.2	6418.3	6964.6	8178.2	9133.6	8931.8	8748.8
35°	8189.0	7548.5	7502.8	8229.4	8191.7	8127.1	9060.9	10167.0	9862.9	9685.3
37.5°	9281.6	9475.4	9814.4	10535.6	10511.4	10019.0	10220.8	11143.8	10987.8	10759.0
40°	10646.0	11057.7	11633.6	12667.0	12344.1	11725.1	11644.4	12144.9	12018.4	11749.3
42.5°	11450.6	12161.1	13259.0	14187.5	13929.1	12847.3	12755.8	13482.4	13205.2	12911.9
45°	11824.7	13059.9	15212.8	16469.5	15686.4	13592.7	13557.8	15226.2	15070.1	14677.2
47.5°	11996.9	13966.8	17500.2	19402.8	17938.9	14246.7	14120.2	17755.9	17551.3	17088.5
50°	12188.0	15218.2	20255.9	22801.7	20659.6	14986.7	15078.2	20113.3	20027.1	19480.9
52.5°	12607.8	16542.2	23649.4	26687.6	23958.8	16146.6	16722.5	22336.1	21754.8	21125.1
55°	13237.5	17984.6	27180.1	30657.0	27325.4	17704.7	18501.3	23517.5	21886.7	21189.7
57.5°	12540.5	18345.2	29271.1	33428.8	28819.0	17710.1	16997.0	21469.6	19249.4	18574.0
60°	9951.7	17066.9	28466.4	32828.7	27546.1	15726.8	13014.1	16762.8	14583.1	14131.0
62.5°	6727.7	14313.9	25059.5	27764.1	23576.7	12371.0	8458.1	10901.6	9028.6	8654.6
65°	3686.8	10678.3	20247.8	21004.0	18452.9	8641.1	4351.5	4730.9	3603.4	3436.5
67.5°	1017.2	7432.8	14897.9	13934.5	12946.9	5627.1	1124.9	845.0	602.8	597.4
70°	255.7	4916.6	8926.4	9200.9	7938.7	3603.4	215.3	102.3	80.7	78.0
72.5°	107.6	2115.2	4235.8	4868.2	4063.6	1668.5	78.0	29.6	24.2	18.8
75°	13.5	169.5	360.6	546.3	374.1	180.3	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)