

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: P640844

Luminaire Tested: GWS-SA5E-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640844  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

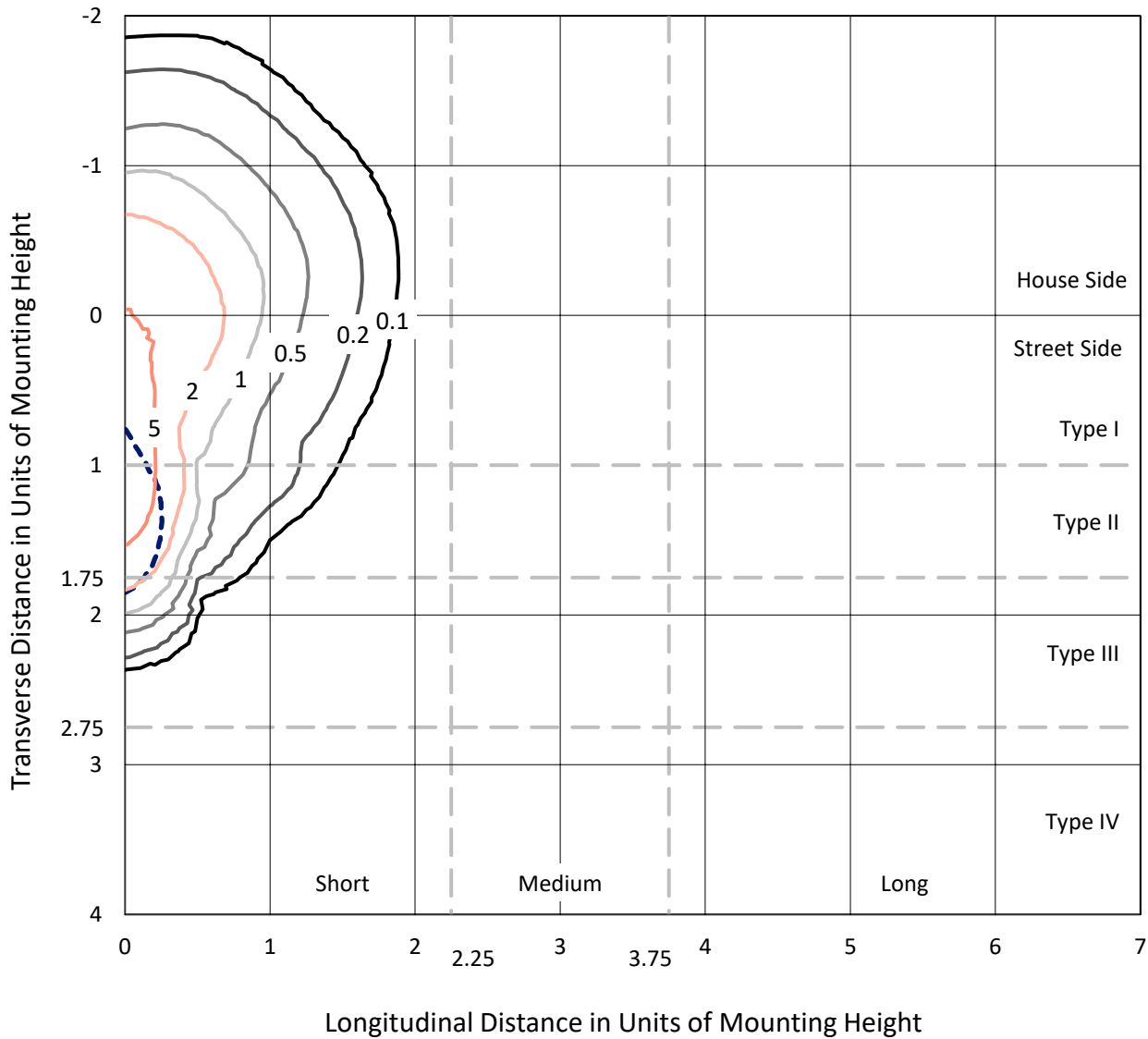
Lumens per Lamp: N/A  
Luminaire Lumens: 20309.1 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

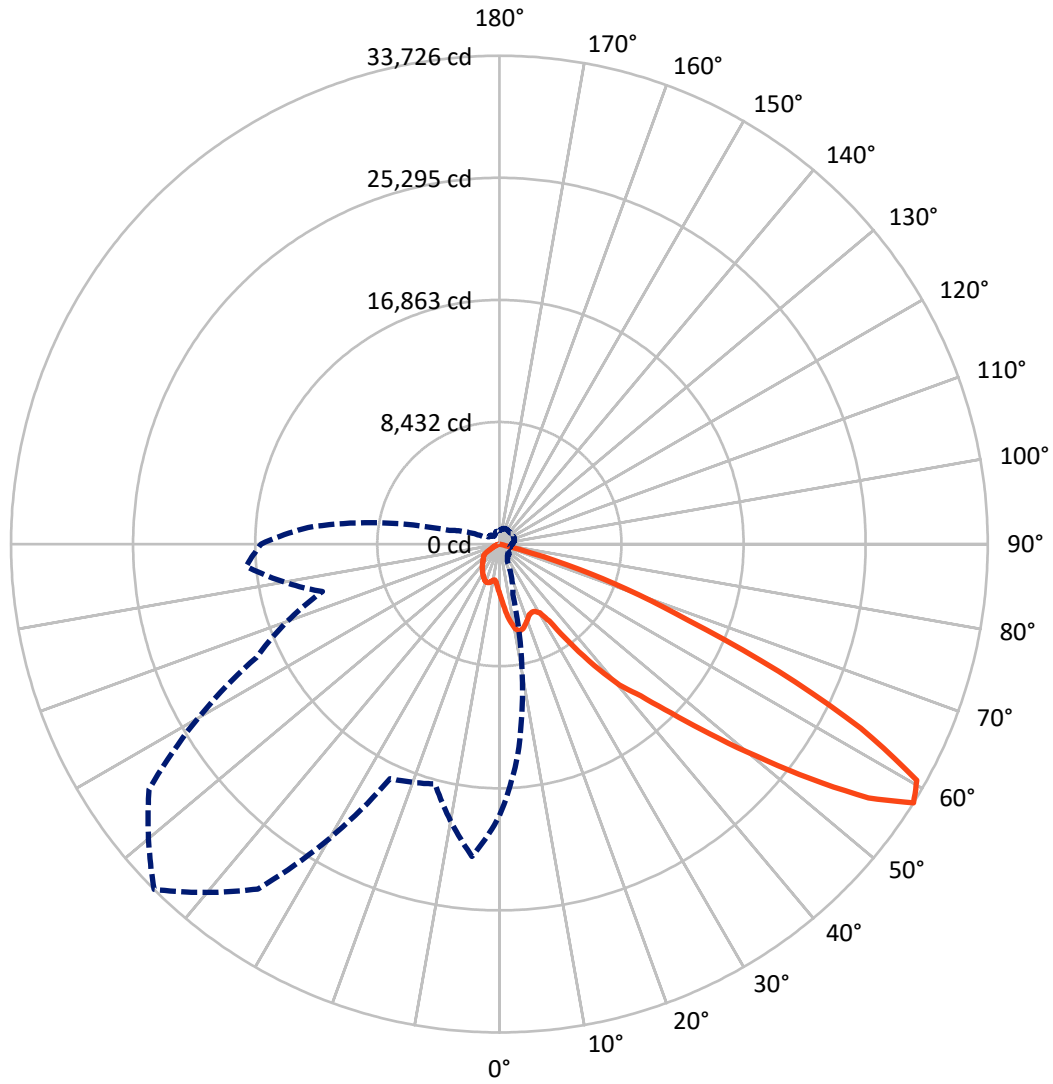
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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
<b>House Side</b>	Lumens	4375.3	0.0	4375.3
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	15933.8	0.0	15933.8
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	20309.1	0.0	20309.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.1	1.7
10°-20°	1122.3	5.5
20°-30°	1821.4	9.0
30°-40°	2795.4	13.8
40°-50°	4464.4	22.0
50°-60°	6251.0	30.8
60°-70°	3205.0	15.8
70°-80°	308.6	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°	20309.1	100.0
0°-180°	20309.1	100.0

**Coefficient of Utilization**



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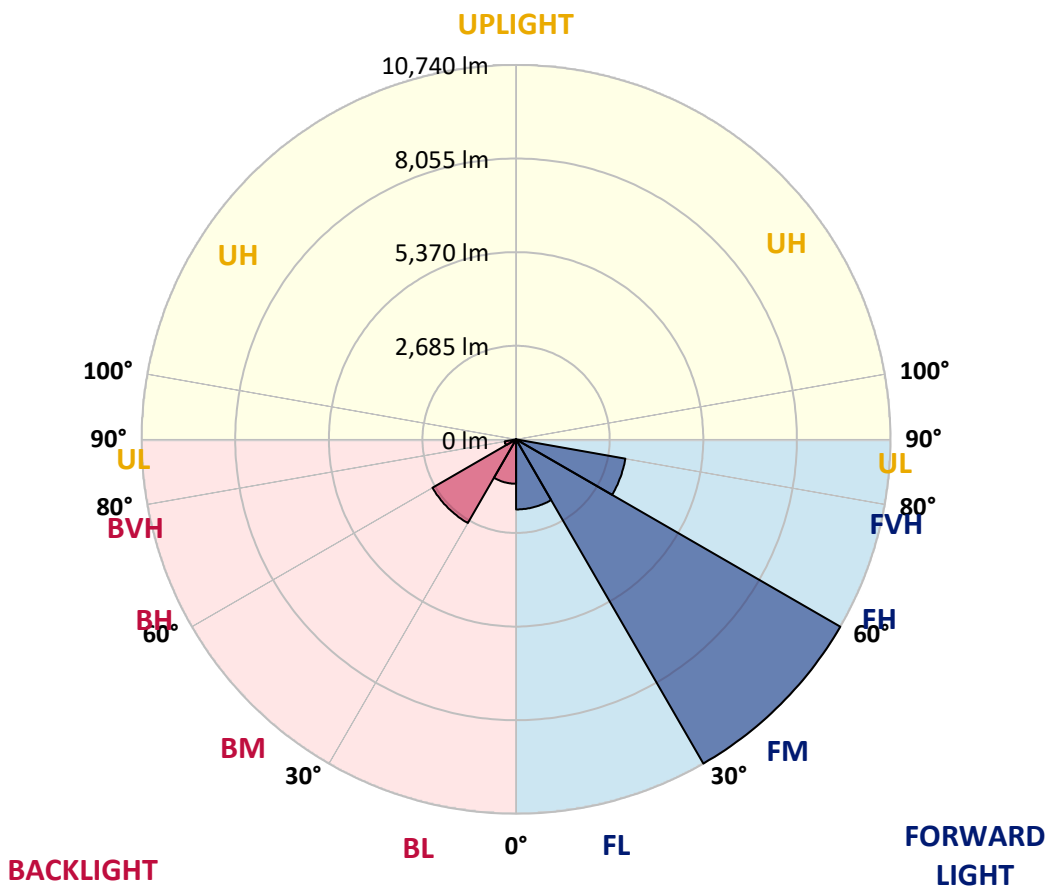
CATALOG NUMBER: GWS-SA5E-760-U-SLL-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.7	9.9			
FM (30°-60°)	10739.9	52.9			
FH (60°-80°)	3183.2	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1274.0	6.3	B3/2500		
BM (30°-60°)	2770.8	13.6	B3/5000		
BH (60°-80°)	330.4	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°	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8
2.5°	3833.6	3825.5	3798.3	3706.0	3649.0	3559.4	3494.3	3410.1	3317.8	3260.8	3203.7
5°	4240.9	4219.2	4145.9	3934.1	3771.2	3594.7	3453.5	3298.8	3133.2	3024.6	2924.1
7.5°	4631.9	4599.3	4501.5	4143.2	3896.1	3643.6	3442.7	3217.3	2983.8	2820.9	2696.0
10°	5014.7	4941.4	4786.6	4346.8	4012.8	3708.7	3472.5	3214.6	2940.4	2734.0	2595.6
12.5°	5329.6	5275.3	5063.6	4539.5	4110.6	3722.3	3431.8	3192.9	3008.3	2869.8	2742.2
15°	5601.1	5541.4	5340.5	4713.3	4194.7	3668.0	3260.8	3051.7	3081.6	3135.9	3027.3
17.5°	5850.9	5788.5	5571.3	4857.2	4227.3	3535.0	3021.8	2921.4	3087.0	3290.6	3249.9
20°	6108.8	6038.3	5772.2	4974.0	4216.5	3325.9	2780.2	2810.1	3043.6	3277.1	3298.8
22.5°	6410.2	6336.9	6027.4	5123.3	4208.3	3076.1	2571.1	2712.3	2962.1	3160.3	3198.3
25°	6809.3	6722.4	6383.1	5343.2	4230.0	2848.1	2421.8	2617.3	2823.6	3002.8	3024.6
27.5°	7336.0	7224.7	6793.0	5614.7	4276.2	2668.9	2356.7	2487.0	2647.2	2807.4	2826.4
30°	8022.9	7881.8	7262.7	5850.9	4254.5	2544.0	2313.2	2356.7	2451.7	2582.0	2584.7
32.5°	8826.6	8633.8	7789.5	6054.5	4067.1	2451.7	2253.5	2223.6	2245.3	2345.8	2364.8
35°	9771.4	9521.6	8370.5	6247.3	3725.0	2272.5	2144.9	2044.4	2036.3	2085.2	2131.3
37.5°	10854.7	10556.1	9103.5	6494.4	3320.5	2085.2	1984.7	1884.2	1840.8	1865.2	1935.8
40°	11853.9	11522.6	9869.2	6793.0	2907.8	1916.8	1797.4	1694.2	1642.6	1650.7	1737.6
42.5°	13026.8	12684.7	10805.9	7184.0	2565.7	1802.8	1601.9	1496.0	1428.1	1466.1	1566.6
45°	14807.8	14419.6	12171.5	7523.4	2294.2	1775.6	1430.8	1281.5	1248.9	1314.1	1433.5
47.5°	17240.5	16765.4	14047.6	7729.7	2063.4	1800.1	1311.4	1107.7	1115.9	1189.2	1308.6
50°	19654.2	19141.0	16216.9	7458.2	1873.4	1751.2	1251.6	972.0	1023.6	1088.7	1197.3
52.5°	21313.1	20645.2	17273.1	6673.6	1699.6	1566.6	1246.2	844.4	942.1	963.8	1056.2
55°	21378.2	20555.6	16732.8	5261.7	1463.4	1322.2	1189.2	738.5	852.5	860.7	939.4
57.5°	18739.2	17995.3	14623.2	3613.7	1300.5	969.3	947.5	646.2	700.5	768.4	817.2
60°	14256.7	13624.1	10936.2	1656.2	988.3	616.3	648.9	556.6	524.0	624.5	673.3
62.5°	8731.6	8327.0	6559.5	733.1	629.9	328.5	393.7	442.6	393.7	431.7	472.4
65°	3467.1	3287.9	2489.7	312.2	257.9	165.6	179.2	257.9	276.9	304.1	342.1
67.5°	602.7	570.2	418.1	138.5	105.9	100.5	86.9	119.5	168.3	187.3	217.2
70°	78.7	76.0	67.9	57.0	54.3	48.9	38.0	76.0	114.0	119.5	138.5
72.5°	19.0	16.3	16.3	13.6	16.3	5.4	5.4	40.7	81.5	84.2	97.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	51.6	57.0	67.9
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°	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8
2.5°	3157.6	3103.3	3084.3	3057.1	3021.8	3032.7	2983.8	2967.5	2992.0	3024.6	3016.4
5°	2869.8	2810.1	2769.3	2706.9	2696.0	2671.6	2655.3	2633.6	2660.7	2698.8	2706.9
7.5°	2641.7	2590.1	2549.4	2530.4	2516.8	2506.0	2473.4	2457.1	2457.1	2473.4	2487.0
10°	2544.0	2506.0	2497.8	2503.3	2525.0	2522.3	2492.4	2470.7	2443.5	2430.0	2446.3
12.5°	2679.7	2617.3	2606.4	2609.2	2636.3	2633.6	2601.0	2573.9	2568.4	2573.9	2625.4
15°	2910.5	2815.5	2744.9	2731.3	2744.9	2739.5	2715.0	2698.8	2706.9	2785.6	2872.5
17.5°	3116.9	2970.3	2842.6	2793.8	2791.1	2782.9	2758.5	2753.1	2793.8	2940.4	3068.0
20°	3176.6	3032.7	2850.8	2788.3	2774.8	2766.6	2739.5	2747.6	2799.2	2975.7	3084.3
22.5°	3097.9	2959.4	2769.3	2706.9	2696.0	2693.3	2666.2	2677.0	2720.5	2875.2	2964.8
25°	2948.5	2831.8	2633.6	2579.3	2579.3	2573.9	2549.4	2554.9	2582.0	2717.8	2804.6
27.5°	2766.6	2655.3	2489.7	2435.4	2443.5	2451.7	2421.8	2413.7	2435.4	2563.0	2614.6
30°	2557.6	2478.8	2348.5	2299.6	2296.9	2329.5	2288.8	2277.9	2307.8	2408.2	2419.1
32.5°	2353.9	2315.9	2223.6	2185.6	2188.3	2193.8	2172.0	2172.0	2199.2	2253.5	2250.8
35°	2155.7	2131.3	2115.0	2087.9	2085.2	2074.3	2074.3	2079.7	2109.6	2128.6	2093.3
37.5°	1965.7	1990.1	2009.1	1982.0	1960.3	1960.3	1960.3	1984.7	2011.8	2003.7	1944.0
40°	1797.4	1848.9	1908.7	1878.8	1827.2	1824.5	1835.4	1876.1	1916.8	1867.9	1813.6
42.5°	1653.5	1718.6	1802.8	1786.5	1729.5	1721.3	1729.5	1781.1	1813.6	1751.2	1691.5
45°	1512.3	1593.7	1694.2	1694.2	1631.7	1623.6	1626.3	1694.2	1713.2	1639.9	1563.9
47.5°	1392.8	1482.4	1588.3	1588.3	1536.7	1520.4	1534.0	1604.6	1618.2	1515.0	1444.4
50°	1278.8	1376.5	1493.3	1485.1	1449.8	1436.3	1460.7	1536.7	1520.4	1406.4	1333.1
52.5°	1134.9	1238.1	1398.2	1406.4	1387.4	1390.1	1420.0	1468.8	1422.7	1284.2	1221.8
55°	1004.6	1110.5	1270.6	1314.1	1314.1	1311.4	1324.9	1363.0	1324.9	1159.3	1083.3
57.5°	863.4	953.0	1086.0	1096.9	1105.0	1075.2	1094.2	1145.7	1126.7	985.6	942.1
60°	708.6	784.6	860.7	868.8	833.5	771.1	806.4	866.1	879.7	773.8	724.9
62.5°	502.3	575.6	665.2	665.2	629.9	567.4	613.6	665.2	646.2	537.6	507.7
65°	374.7	442.6	510.4	540.3	510.4	467.0	502.3	540.3	510.4	420.8	377.4
67.5°	241.6	287.8	328.5	353.0	358.4	353.0	369.2	358.4	323.1	263.4	238.9
70°	146.6	171.0	192.8	214.5	230.8	238.9	247.1	222.6	187.3	154.8	146.6
72.5°	105.9	127.6	146.6	162.9	181.9	187.3	187.3	171.0	138.5	108.6	100.5
75°	73.3	92.3	108.6	119.5	135.8	141.2	141.2	127.6	103.2	78.7	70.6
77.5°	2.7	19.0	19.0	16.3	21.7	27.2	27.2	32.6	29.9	21.7	19.0
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°	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8
2.5°	3032.7	3130.4	3157.6	3258.0	3347.6	3437.2	3545.8	3611.0	3708.7	3776.6	3814.6
5°	2734.0	2815.5	2913.2	3062.6	3217.3	3388.4	3594.7	3773.9	3999.3	4164.9	4219.2
7.5°	2516.8	2622.7	2736.8	2924.1	3135.9	3363.9	3654.4	3947.7	4292.5	4517.8	4661.7
10°	2476.1	2584.7	2736.8	2921.4	3144.0	3404.7	3760.3	4140.4	4572.1	4846.3	5009.3
12.5°	2671.6	2788.3	2853.5	2937.7	3106.0	3396.5	3852.6	4335.9	4843.6	5142.3	5316.1
15°	2959.4	3062.6	2956.7	2850.8	2959.4	3309.6	3904.2	4498.8	5082.6	5427.4	5606.6
17.5°	3157.6	3165.7	2935.0	2709.6	2739.5	3152.2	3923.2	4661.7	5337.8	5698.9	5886.2
20°	3138.6	3073.4	2839.9	2590.1	2497.8	2948.5	3901.5	4805.6	5595.7	5973.1	6157.7
22.5°	2992.0	2916.0	2717.8	2473.4	2294.2	2706.9	3863.5	4935.9	5831.9	6260.9	6434.6
25°	2815.5	2734.0	2571.1	2356.7	2163.9	2473.4	3833.6	5115.1	6130.6	6635.6	6771.3
27.5°	2609.2	2538.6	2400.1	2245.3	2109.6	2296.9	3825.5	5351.3	6491.7	7091.7	7186.7
30°	2408.2	2343.1	2234.5	2144.9	2087.9	2193.8	3798.3	5603.8	6923.4	7615.7	7718.9
32.5°	2215.5	2150.3	2082.4	2068.9	2071.6	2155.7	3706.0	5853.6	7436.5	8375.9	8451.9
35°	2049.9	1973.8	1946.7	1979.3	2039.0	2090.6	3445.4	6060.0	7987.7	9204.0	9266.4
37.5°	1892.4	1816.4	1813.6	1892.4	1957.5	1990.1	3138.6	6263.6	8731.6	10045.7	10124.4
40°	1748.5	1672.5	1699.6	1794.6	1846.2	1862.5	2766.6	6573.1	9518.9	10933.5	10890.0
42.5°	1626.3	1547.6	1563.9	1686.0	1732.2	1775.6	2424.5	6831.0	10276.4	11775.1	11761.6
45°	1506.8	1447.1	1436.3	1569.3	1610.0	1783.8	2174.7	7029.2	11251.1	12847.6	12869.3
47.5°	1390.1	1343.9	1346.7	1403.7	1504.1	1824.5	1963.0	7159.6	12665.7	14547.2	14169.8
50°	1284.2	1248.9	1278.8	1213.6	1436.3	1772.9	1781.1	7132.4	14245.8	16176.2	15418.7
52.5°	1167.5	1159.3	1172.9	1015.4	1327.7	1563.9	1610.0	6771.3	14987.0	17289.4	16857.7
55°	1048.0	1045.3	936.7	811.8	1110.5	1248.9	1379.2	5650.0	14962.6	17881.3	18405.3
57.5°	906.8	885.1	711.3	662.5	863.4	868.8	1257.1	3700.6	13260.3	16464.0	17550.0
60°	686.9	670.6	521.3	537.6	602.7	556.6	1001.9	1843.5	9909.9	12825.9	14050.3
62.5°	475.1	453.4	388.3	415.4	388.3	317.7	613.6	912.3	6003.0	8099.0	9209.4
65°	347.5	323.1	266.1	228.1	181.9	181.9	233.5	350.2	2324.1	3442.7	4151.3
67.5°	214.5	203.6	157.5	114.0	111.3	119.5	122.2	173.8	374.7	597.3	730.3
70°	138.5	127.6	105.9	73.3	67.9	70.6	73.3	81.5	95.0	103.2	124.9
72.5°	95.0	89.6	76.0	40.7	32.6	35.3	38.0	38.0	46.2	43.4	51.6
75°	67.9	62.4	54.3	19.0	10.9	13.6	16.3	13.6	16.3	10.9	13.6
77.5°	19.0	19.0	13.6	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: P640844

CATALOG NUMBER: GWS-SA5E-760-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8	3450.8
2.5°	3912.4	3974.8	3999.3	3964.0	3993.8	3945.0	3925.9	3852.6	3847.2	3833.6
5°	4439.1	4580.3	4664.4	4716.0	4656.3	4591.1	4493.4	4325.1	4273.5	4240.9
7.5°	4957.7	5177.6	5321.5	5389.4	5373.1	5240.0	5063.6	4781.2	4680.7	4631.9
10°	5408.4	5677.2	5850.9	5935.1	5899.8	5783.0	5530.5	5177.6	5044.5	5014.7
12.5°	5723.3	5970.4	6089.8	6163.1	6165.9	6119.7	5880.8	5525.1	5367.6	5329.6
15°	5921.5	6027.4	6030.1	6073.5	6149.6	6252.7	6141.4	5826.5	5658.1	5601.1
17.5°	6046.4	5929.6	5810.2	5821.0	5945.9	6220.2	6334.2	6092.6	5913.4	5850.9
20°	6136.0	5766.7	5544.1	5546.8	5674.4	6089.8	6467.2	6350.5	6165.9	6108.8
22.5°	6193.0	5622.8	5305.2	5297.0	5432.8	5935.1	6589.4	6657.3	6475.4	6410.2
25°	6309.8	5555.0	5161.3	5207.4	5326.9	5886.2	6755.0	7064.5	6896.2	6809.3
27.5°	6518.8	5622.8	5147.7	5253.6	5389.4	6030.1	7042.8	7607.5	7433.8	7336.0
30°	6879.9	5878.1	5356.8	5503.4	5666.3	6407.5	7526.1	8365.0	8115.3	8022.9
32.5°	7460.9	6407.5	6003.0	6317.9	6475.4	7026.5	8251.0	9214.8	9011.2	8826.6
35°	8261.9	7615.7	7569.5	8302.6	8264.6	8199.4	9141.5	10257.4	9950.6	9771.4
37.5°	9364.2	9559.7	9901.8	10629.4	10604.9	10108.1	10311.7	11243.0	11085.5	10854.7
40°	10740.7	11156.1	11737.1	12779.7	12453.9	11829.4	11748.0	12253.0	12125.4	11853.9
42.5°	11552.5	12269.3	13377.0	14313.7	14053.1	12961.6	12869.3	13602.4	13322.7	13026.8
45°	11929.9	13176.1	15348.1	16616.1	15826.0	13713.7	13678.4	15361.7	15204.2	14807.8
47.5°	12103.7	14091.1	17655.9	19575.4	18098.5	14373.4	14245.8	17913.8	17707.5	17240.5
50°	12296.4	15353.6	20436.1	23004.5	20843.4	15120.1	15212.4	20292.2	20205.3	19654.2
52.5°	12720.0	16689.4	23859.8	26925.1	24172.0	16290.2	16871.3	22534.8	21948.4	21313.1
55°	13355.3	18144.6	27421.9	30929.7	27568.5	17862.3	18665.9	23726.7	22081.4	21378.2
57.5°	12652.1	18508.4	29531.5	33726.2	29075.4	17867.7	17148.2	21660.6	19420.7	18739.2
60°	10040.2	17218.8	28719.7	33120.8	27791.2	15866.7	13129.9	16912.0	14712.8	14256.7
62.5°	6787.6	14441.3	25282.5	28011.1	23786.5	12481.0	8533.4	10998.6	9109.0	8731.6
65°	3719.6	10773.3	20428.0	21190.9	18617.0	8718.0	4390.2	4773.0	3635.4	3467.1
67.5°	1026.3	7498.9	15030.5	14058.5	13062.1	5677.2	1134.9	852.5	608.2	602.7
70°	257.9	4960.4	9005.8	9282.7	8009.4	3635.4	217.2	103.2	81.5	78.7
72.5°	108.6	2134.0	4273.5	4911.5	4099.7	1683.3	78.7	29.9	24.4	19.0
75°	13.6	171.0	363.8	551.2	377.4	181.9	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)