

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: P636889

Luminaire Tested: GWS-SA4B-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-760-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

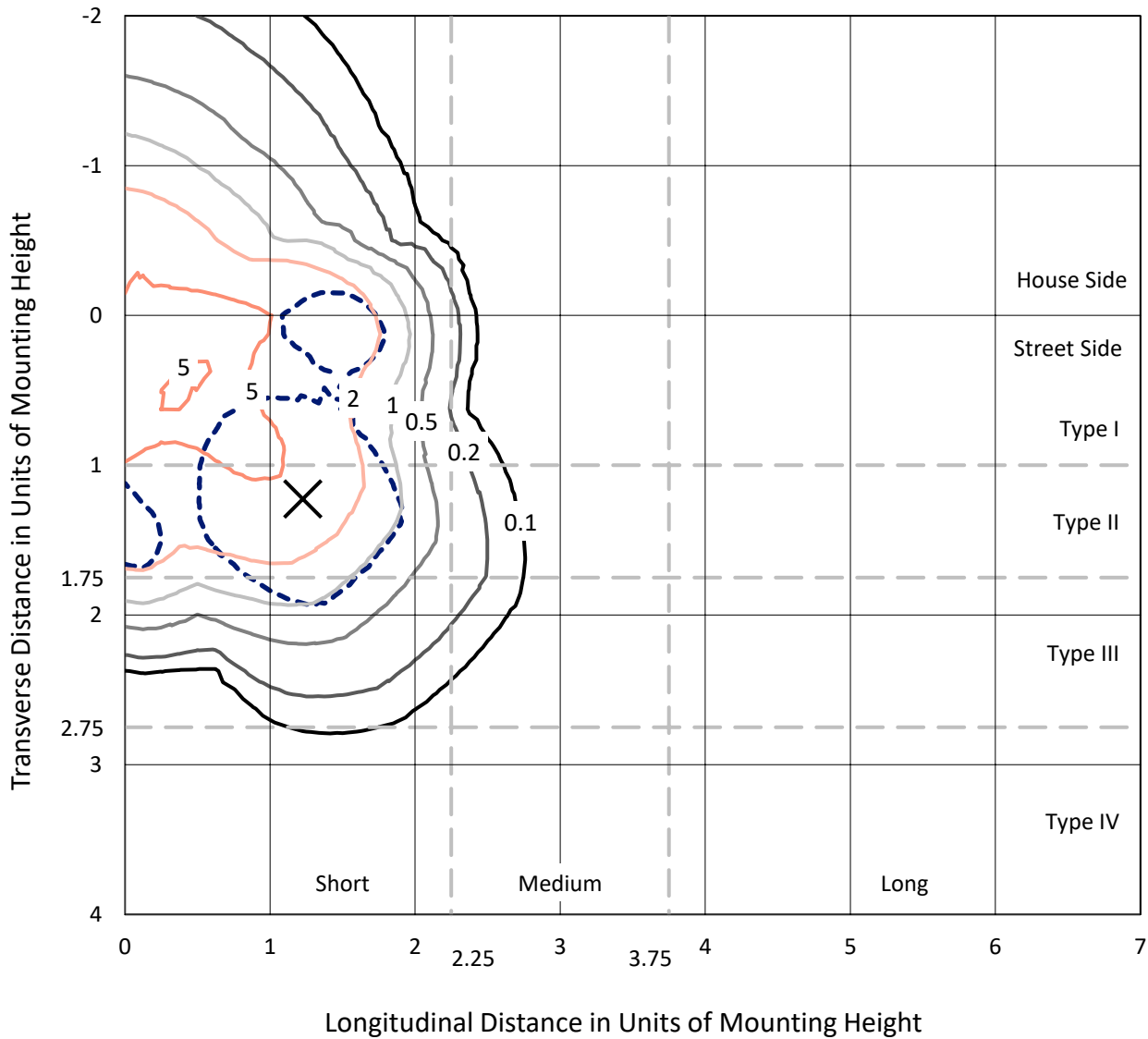
Lumens per Lamp: N/A  
Luminaire Lumens: 11425.3 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

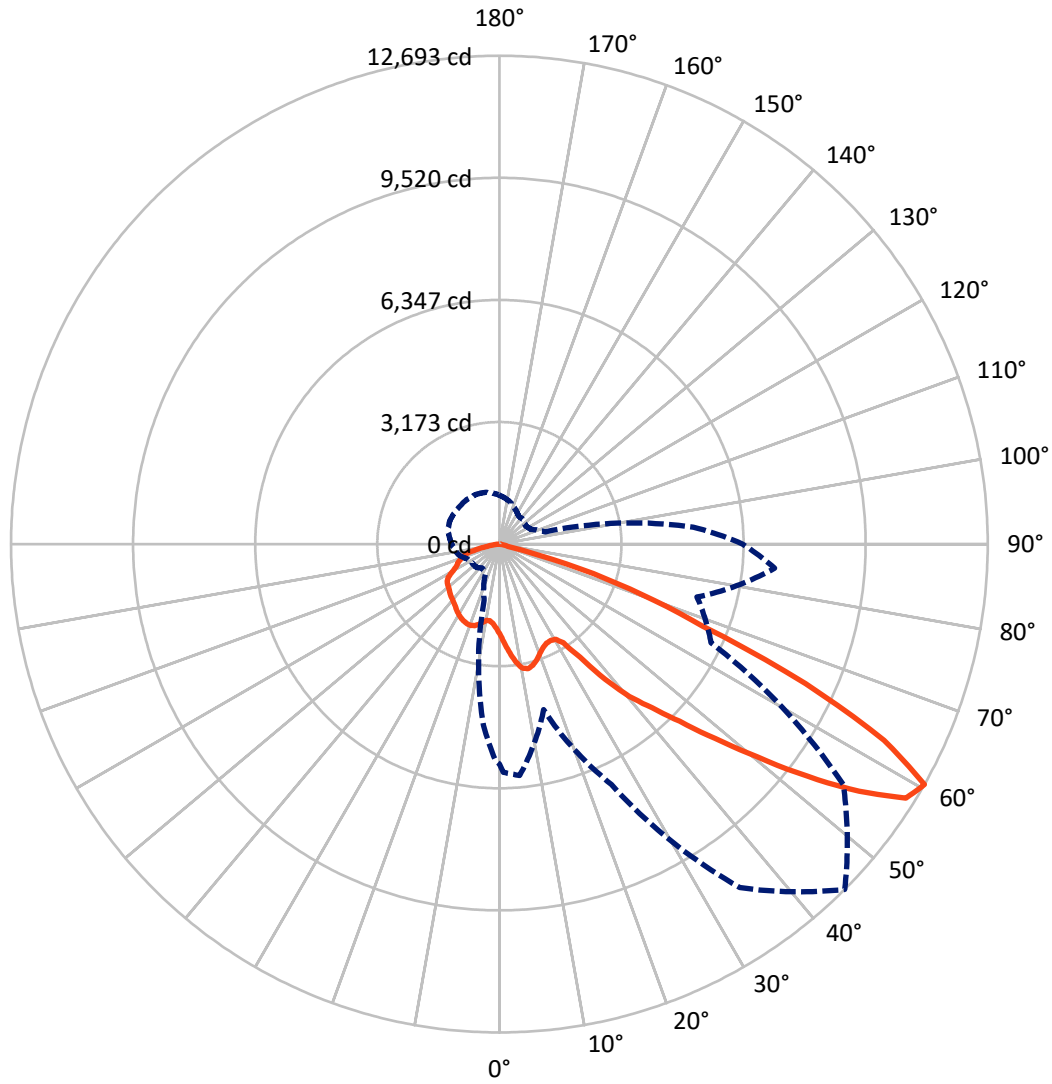
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4005.0	0.0	4005.0
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	7420.3	0.0	7420.3
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	11425.3	0.0	11425.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.0	2.0
10°-20°	723.6	6.3
20°-30°	1175.5	10.3
30°-40°	1657.7	14.5
40°-50°	2291.0	20.1
50°-60°	2949.1	25.8
60°-70°	1868.6	16.4
70°-80°	479.5	4.2
80°-90°	51.3	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°	11425.3	100.0
0°-180°	11425.3	100.0

**Coefficient of Utilization**



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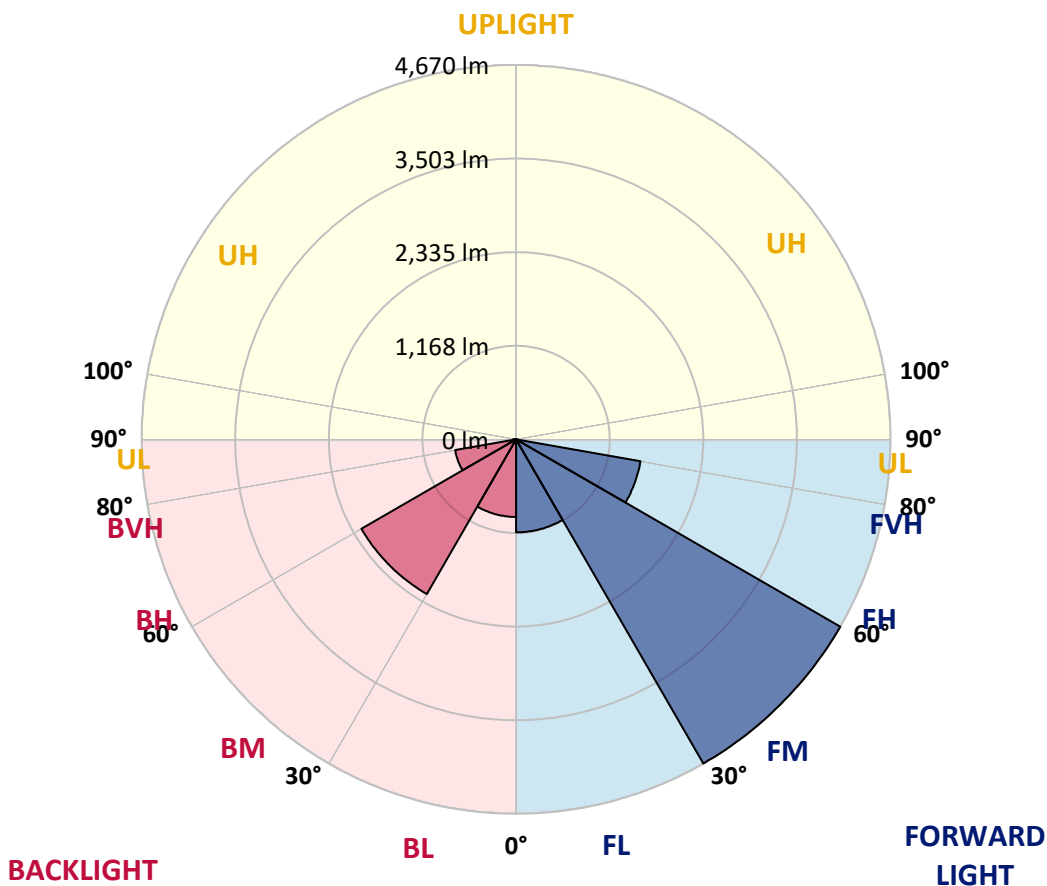
CATALOG NUMBER: GWS-SA4B-760-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1160.1	10.2			
FM (30°-60°)	4670.0	40.9			
FH (60°-80°)	1576.3	13.8			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	968.0	8.5	B2/1000		
BM (30°-60°)	2227.8	19.5	B2/2500		
BH (60°-80°)	771.8	6.8	B2/1000		G2/1000
BVH (80°-90°)	37.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1
2.5°	2454.9	2471.7	2482.1	2502.0	2537.6	2557.5	2579.5	2555.4	2561.7	2558.6	2519.8
5°	2600.4	2620.3	2647.5	2706.2	2772.1	2808.8	2843.3	2838.1	2805.6	2751.2	2712.5
7.5°	2736.5	2759.6	2806.7	2901.9	2999.3	3055.8	3097.7	3070.5	3043.3	2957.4	2860.1
10°	2843.3	2856.9	2920.8	3048.5	3161.6	3225.4	3276.7	3270.4	3232.7	3136.4	3005.6
12.5°	2943.8	2953.2	3022.3	3150.0	3251.6	3279.9	3321.7	3335.3	3322.8	3250.5	3121.8
15°	3051.6	3069.4	3133.3	3230.7	3276.7	3247.4	3262.1	3299.7	3335.3	3335.3	3217.0
17.5°	3152.1	3167.8	3232.7	3274.6	3230.7	3153.2	3157.4	3205.5	3290.3	3379.3	3303.9
20°	3241.1	3255.8	3319.6	3279.9	3140.6	3027.6	3024.4	3083.0	3220.2	3407.6	3397.1
22.5°	3338.5	3359.4	3412.8	3284.0	3056.9	2913.5	2912.4	2973.1	3158.4	3435.8	3503.9
25°	3476.7	3509.1	3536.3	3320.7	3011.9	2839.1	2852.7	2910.3	3138.5	3481.9	3662.0
27.5°	3681.9	3708.0	3705.9	3397.1	3009.8	2808.8	2837.0	2904.0	3174.1	3563.6	3828.4
30°	3903.8	3917.4	3895.4	3503.9	3057.9	2827.6	2869.5	2949.0	3264.2	3698.6	4073.4
32.5°	4149.8	4166.6	4124.7	3664.1	3169.9	2966.8	3059.0	3097.7	3390.8	3893.3	4333.0
35°	4432.5	4464.9	4378.0	3875.5	3499.7	3474.6	3608.6	3558.3	3659.9	4123.6	4610.4
37.5°	4729.8	4730.8	4606.2	4188.5	4146.7	4189.6	4457.6	4300.6	4230.4	4380.1	4893.1
40°	4982.1	4975.8	4784.2	4610.4	4709.9	4880.5	5204.0	4963.2	4779.0	4724.5	5127.6
42.5°	5234.4	5211.3	5017.7	4878.4	5098.3	5449.0	5814.3	5519.1	5130.7	5037.6	5358.9
45°	5556.8	5549.5	5316.0	4985.2	5449.0	6085.5	6570.2	6091.8	5339.1	5219.7	5744.2
47.5°	6077.1	6041.5	5607.1	4976.8	5777.7	6933.4	7545.9	6813.1	5484.6	5223.9	6366.0
50°	6585.9	6541.9	5954.6	4975.8	6116.9	7812.8	8697.4	7689.3	5633.2	5249.0	6998.4
52.5°	7099.9	7099.9	6525.2	5094.1	6472.8	8794.8	10028.0	8781.2	5886.6	5577.7	7776.2
55°	7405.6	7487.2	7166.9	5294.0	6889.5	9950.5	11343.9	9960.0	6278.1	6171.3	8494.3
57.5°	7017.2	7170.0	7124.0	5154.8	7135.5	10799.6	12459.9	10854.0	6471.8	6241.5	8386.5
60°	5718.0	5930.5	6036.3	4451.3	6892.6	10898.0	12693.3	10912.6	6071.9	5315.0	7183.6
62.5°	3801.2	3976.0	4137.2	3180.4	5967.2	9804.0	11226.7	9807.1	5071.1	3966.6	4976.8
65°	1864.5	1994.3	2168.1	1880.2	4661.7	8191.8	8752.9	7924.8	3668.2	2220.4	2538.7
67.5°	487.8	524.5	548.6	729.7	3339.5	5885.5	5708.6	5796.5	2356.5	725.5	663.7
70°	253.3	255.4	254.4	301.5	2257.1	3740.5	3934.2	3640.0	1644.6	303.6	261.7
72.5°	181.1	182.2	179.0	203.1	1089.8	2143.0	2220.4	2196.3	861.6	180.1	179.0
75°	118.3	119.3	117.2	119.3	164.4	243.9	225.1	236.6	143.4	114.1	114.1
77.5°	70.1	71.2	70.1	72.2	70.1	70.1	64.9	64.9	61.8	61.8	62.8
80°	47.1	47.1	46.1	48.2	44.0	44.0	41.9	40.8	37.7	36.6	36.6
82.5°	28.3	29.3	28.3	28.3	26.2	26.2	24.1	23.0	19.9	19.9	18.8
85°	14.7	14.7	13.6	13.6	11.5	10.5	8.4	8.4	6.3	5.2	5.2
87.5°	2.1	2.1	1.0	1.0	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°	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1
2.5°	2509.4	2488.4	2457.0	2426.7	2398.4	2369.1	2335.6	2301.0	2271.7	2241.4	2225.7
5°	2661.2	2618.2	2536.6	2464.3	2399.4	2346.0	2288.5	2239.3	2193.2	2155.5	2136.7
7.5°	2798.3	2731.3	2607.8	2493.7	2405.7	2332.4	2252.9	2179.6	2117.8	2071.8	2054.0
10°	2925.0	2845.4	2683.1	2538.7	2436.1	2354.4	2257.1	2157.6	2076.0	2015.2	2000.6
12.5°	3027.6	2936.5	2742.8	2575.3	2453.9	2365.9	2280.1	2194.2	2113.6	2035.1	2022.6
15°	3118.6	3010.8	2787.8	2598.3	2447.6	2335.6	2263.3	2252.9	2252.9	2163.9	2138.8
17.5°	3197.2	3078.9	2824.5	2608.8	2407.8	2245.5	2201.6	2292.7	2395.2	2331.4	2274.9
20°	3287.2	3143.8	2854.8	2608.8	2334.5	2131.4	2127.2	2282.2	2434.0	2435.0	2375.4
22.5°	3378.3	3219.1	2890.4	2599.4	2234.0	1999.5	2077.0	2240.3	2375.4	2432.9	2392.1
25°	3525.9	3323.8	2947.0	2592.1	2116.8	1909.5	2032.0	2184.8	2298.9	2359.7	2333.5
27.5°	3713.3	3462.0	3032.8	2603.6	2000.6	1856.1	1983.8	2112.6	2216.2	2269.6	2250.8
30°	3922.6	3621.1	3124.9	2623.5	1916.8	1828.9	1926.2	2029.9	2122.0	2175.4	2167.0
32.5°	4189.6	3793.9	3204.5	2596.2	1869.7	1815.3	1865.5	1939.9	2028.8	2062.3	2069.7
35°	4508.9	3984.4	3265.2	2489.5	1826.8	1800.6	1799.6	1845.6	1908.5	1961.8	1967.1
37.5°	4803.1	4207.4	3332.2	2306.3	1749.3	1764.0	1722.1	1749.3	1811.1	1864.5	1885.4
40°	5094.1	4433.5	3425.4	2072.8	1647.8	1682.3	1633.1	1652.0	1701.2	1771.3	1804.8
42.5°	5376.7	4637.7	3523.8	1834.1	1546.2	1568.2	1531.6	1550.4	1601.7	1689.7	1727.3
45°	5684.5	4914.0	3600.2	1609.0	1458.3	1448.9	1419.6	1446.8	1524.2	1620.6	1665.6
47.5°	6266.6	5349.5	3650.4	1459.3	1411.2	1343.1	1309.6	1368.3	1456.2	1553.6	1608.0
50°	6977.4	5979.7	3635.8	1364.1	1370.4	1234.3	1222.7	1300.2	1394.4	1496.0	1555.7
52.5°	7540.6	6598.4	3469.3	1273.0	1290.8	1165.2	1131.7	1244.7	1334.8	1438.4	1500.2
55°	7970.9	6806.8	2958.5	1165.2	1161.0	1114.9	1044.8	1187.2	1275.1	1371.4	1438.4
57.5°	7620.2	6343.0	2193.2	1016.5	991.4	1015.5	947.4	1089.8	1201.8	1297.1	1356.7
60°	6324.2	5057.4	1221.7	900.3	829.1	887.7	877.3	987.2	1122.2	1222.7	1274.0
62.5°	4293.2	3367.8	724.4	711.9	672.1	755.8	811.3	883.6	1016.5	1098.2	1146.3
65°	2139.8	1636.3	481.6	532.9	538.1	621.8	726.5	806.1	917.1	1000.8	1049.0
67.5°	620.8	508.8	366.4	407.2	463.8	530.8	614.5	708.7	816.6	916.0	972.5
70°	268.0	271.1	291.0	339.2	394.7	463.8	547.5	639.6	730.7	807.1	850.1
72.5°	189.5	196.8	218.8	268.0	320.3	386.3	470.0	559.0	625.0	702.5	747.5
75°	121.4	126.7	144.5	182.2	220.9	284.7	364.3	446.0	514.0	569.5	612.4
77.5°	67.0	68.0	82.7	104.7	130.9	171.7	230.3	294.2	344.4	375.8	414.6
80°	38.7	38.7	46.1	59.7	75.4	100.5	133.0	164.4	194.7	214.6	233.5
82.5°	20.9	20.9	24.1	32.5	40.8	55.5	74.3	90.0	108.9	119.3	131.9
85°	6.3	6.3	8.4	11.5	14.7	20.9	29.3	37.7	46.1	53.4	60.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1
2.5°	2222.5	2207.9	2199.5	2189.0	2192.2	2182.7	2177.5	2180.6	2161.8	2180.6	2199.5
5°	2129.3	2108.4	2091.7	2078.0	2071.8	2059.2	2051.9	2051.9	2040.4	2059.2	2082.2
7.5°	2047.7	2030.9	2022.6	2014.2	2004.8	1993.2	1980.7	1976.5	1969.2	1989.1	2009.0
10°	1993.2	1995.3	2000.6	2012.1	2010.0	2002.7	1983.8	1973.4	1973.4	1996.4	2026.7
12.5°	2018.4	2040.4	2052.9	2073.9	2078.0	2071.8	2052.9	2044.5	2065.5	2100.0	2150.3
15°	2115.7	2130.4	2140.9	2157.6	2156.6	2151.3	2136.7	2143.0	2212.0	2279.0	2324.1
17.5°	2221.5	2204.7	2202.6	2213.1	2216.2	2210.0	2201.6	2229.8	2344.0	2406.8	2429.8
20°	2297.9	2240.3	2227.7	2231.9	2240.3	2237.2	2237.2	2283.2	2401.5	2430.8	2401.5
22.5°	2320.9	2239.3	2220.4	2221.5	2233.0	2234.0	2239.3	2287.4	2356.5	2357.6	2312.5
25°	2284.3	2205.8	2192.2	2194.2	2207.9	2206.8	2208.9	2236.1	2266.5	2253.9	2220.4
27.5°	2215.2	2147.1	2143.0	2154.5	2172.3	2162.8	2156.6	2163.9	2178.5	2162.8	2133.5
30°	2136.7	2079.1	2081.2	2103.2	2122.0	2106.3	2090.6	2094.8	2095.8	2079.1	2045.6
32.5°	2054.0	2011.0	2018.4	2041.4	2063.4	2046.6	2029.9	2027.8	2007.9	1988.0	1955.6
35°	1971.3	1954.5	1963.9	1982.8	2001.6	1988.0	1977.5	1971.3	1928.3	1899.0	1871.8
37.5°	1895.9	1908.5	1925.2	1936.7	1943.0	1942.0	1935.7	1921.0	1864.5	1829.9	1794.3
40°	1828.9	1867.6	1885.4	1890.7	1900.1	1898.0	1896.9	1876.0	1801.7	1765.0	1724.2
42.5°	1768.2	1822.6	1853.0	1858.2	1863.4	1864.5	1861.3	1831.0	1746.2	1703.3	1664.5
45°	1709.5	1780.7	1819.5	1814.2	1821.6	1821.6	1824.7	1784.9	1691.7	1647.8	1607.0
47.5°	1658.2	1742.0	1777.6	1771.3	1775.5	1778.6	1781.8	1735.7	1632.1	1590.2	1548.3
50°	1611.1	1700.1	1730.5	1732.6	1732.6	1739.9	1738.9	1693.8	1581.8	1536.8	1494.9
52.5°	1560.9	1657.2	1689.7	1703.3	1707.5	1710.6	1695.9	1643.6	1530.5	1476.1	1437.4
55°	1502.3	1613.2	1642.5	1660.3	1668.7	1666.6	1646.7	1593.3	1478.2	1423.7	1379.8
57.5°	1413.3	1519.0	1560.9	1569.3	1582.9	1574.5	1551.5	1506.5	1394.4	1340.0	1295.0
60°	1315.9	1392.3	1425.8	1433.2	1422.7	1425.8	1422.7	1379.8	1282.4	1239.5	1193.4
62.5°	1188.2	1256.2	1291.8	1301.3	1283.5	1295.0	1290.8	1237.4	1140.0	1095.0	1054.2
65°	1091.9	1166.2	1208.1	1213.3	1208.1	1213.3	1198.7	1133.8	1041.6	995.6	953.7
67.5°	1016.5	1092.9	1136.9	1151.6	1146.3	1145.3	1122.2	1046.9	951.6	901.4	848.0
70°	886.7	953.7	1010.2	1045.8	1045.8	1025.9	982.0	911.8	835.4	792.5	750.6
72.5°	785.2	870.0	925.4	962.1	969.4	957.9	896.1	821.8	733.9	690.9	647.0
75°	647.0	729.7	789.3	837.5	846.9	834.4	763.2	689.9	608.2	566.4	522.4
77.5°	432.4	481.6	529.7	573.7	564.3	572.6	524.5	469.0	418.7	387.3	367.5
80°	243.9	276.4	291.0	315.1	315.1	315.1	283.7	257.5	229.3	211.5	191.6
82.5°	138.2	159.1	165.4	185.3	190.5	191.6	170.6	153.9	136.1	126.7	113.1
85°	63.9	75.4	76.4	87.9	92.1	100.5	91.1	79.6	69.1	64.9	56.5
87.5°	2.1	6.3	8.4	15.7	20.9	24.1	26.2	26.2	22.0	19.9	16.7
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: P636889

CATALOG NUMBER: GWS-SA4B-760-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1
2.5°	2222.5	2247.6	2277.0	2297.9	2335.6	2367.0	2399.4	2435.0	2461.2	2454.9
5°	2110.5	2152.4	2205.8	2255.0	2325.1	2396.3	2474.8	2555.4	2602.5	2600.4
7.5°	2047.7	2107.4	2172.3	2238.2	2320.9	2423.5	2543.9	2669.5	2733.4	2736.5
10°	2081.2	2145.0	2189.0	2244.5	2331.4	2460.2	2604.6	2755.4	2828.7	2843.3
12.5°	2186.9	2181.7	2178.5	2218.3	2323.0	2486.3	2663.2	2843.3	2926.0	2943.8
15°	2287.4	2179.6	2114.7	2141.9	2285.3	2503.1	2720.8	2939.6	3032.8	3051.6
17.5°	2306.3	2143.0	2022.6	2041.4	2225.7	2508.3	2776.3	3033.8	3134.3	3152.1
20°	2253.9	2095.8	1955.6	1929.4	2150.3	2494.7	2810.9	3112.4	3222.3	3241.1
22.5°	2188.0	2054.0	1905.3	1837.3	2058.2	2481.1	2849.6	3195.1	3321.7	3338.5
25°	2118.9	2000.6	1858.2	1754.6	1953.5	2472.7	2914.5	3303.9	3456.8	3476.7
27.5°	2045.6	1935.7	1817.4	1714.8	1857.2	2483.2	3006.6	3479.8	3653.6	3681.9
30°	1967.1	1870.8	1791.2	1701.2	1791.2	2492.6	3108.2	3659.9	3864.0	3903.8
32.5°	1885.4	1811.1	1764.0	1707.5	1750.4	2470.6	3197.2	3861.9	4115.3	4149.8
35°	1803.8	1750.4	1729.4	1719.0	1695.9	2390.0	3269.4	4066.1	4402.1	4432.5
37.5°	1727.3	1687.6	1681.3	1692.8	1612.2	2258.1	3353.1	4325.7	4683.7	4729.8
40°	1656.2	1619.5	1618.5	1616.4	1520.1	2078.0	3466.2	4589.5	4961.1	4982.1
42.5°	1590.2	1544.1	1552.5	1527.4	1444.7	1883.3	3573.0	4814.6	5219.7	5234.4
45°	1531.6	1470.9	1480.3	1448.9	1409.1	1679.2	3667.2	5080.5	5547.4	5556.8
47.5°	1475.0	1410.1	1384.0	1381.9	1402.8	1490.7	3759.3	5592.4	6060.4	6077.1
50°	1422.7	1352.6	1278.2	1324.3	1364.1	1349.4	3874.5	6141.0	6590.1	6585.9
52.5°	1372.5	1280.3	1174.6	1263.6	1263.6	1244.7	3842.0	6473.9	7027.7	7099.9
55°	1314.9	1164.1	1066.8	1162.0	1116.0	1150.5	3267.3	6582.7	7303.0	7405.6
57.5°	1200.8	1020.7	935.9	987.2	918.1	1066.8	2347.1	6042.6	6835.0	7017.2
60°	1090.8	915.0	859.5	850.1	760.0	870.0	1521.1	4730.8	5625.9	5718.0
62.5°	962.1	823.9	776.8	704.5	611.4	633.4	921.2	3113.4	3780.3	3801.2
65°	864.7	746.4	656.4	570.5	500.4	459.6	544.4	1501.2	1889.6	1864.5
67.5°	742.2	639.6	553.8	492.0	434.5	383.2	362.2	446.0	504.6	487.8
70°	660.6	562.2	479.5	420.8	367.5	316.2	279.5	262.8	257.5	253.3
72.5°	569.5	483.7	397.8	341.3	291.0	243.9	210.4	190.5	185.3	181.1
75°	454.3	373.7	295.2	241.8	197.9	164.4	142.4	125.6	122.5	118.3
77.5°	300.5	239.7	175.9	143.4	117.2	99.5	84.8	74.3	72.2	70.1
80°	165.4	138.2	107.8	86.9	70.1	60.7	55.5	49.2	48.2	47.1
82.5°	98.4	82.7	61.8	49.2	40.8	36.6	33.5	30.4	29.3	28.3
85°	49.2	38.7	27.2	23.0	20.9	18.8	18.8	15.7	14.7	14.7
87.5°	12.6	10.5	6.3	5.2	5.2	5.2	4.2	3.1	3.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)