

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: P636779

Luminaire Tested: GWS-SA4B-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636779  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

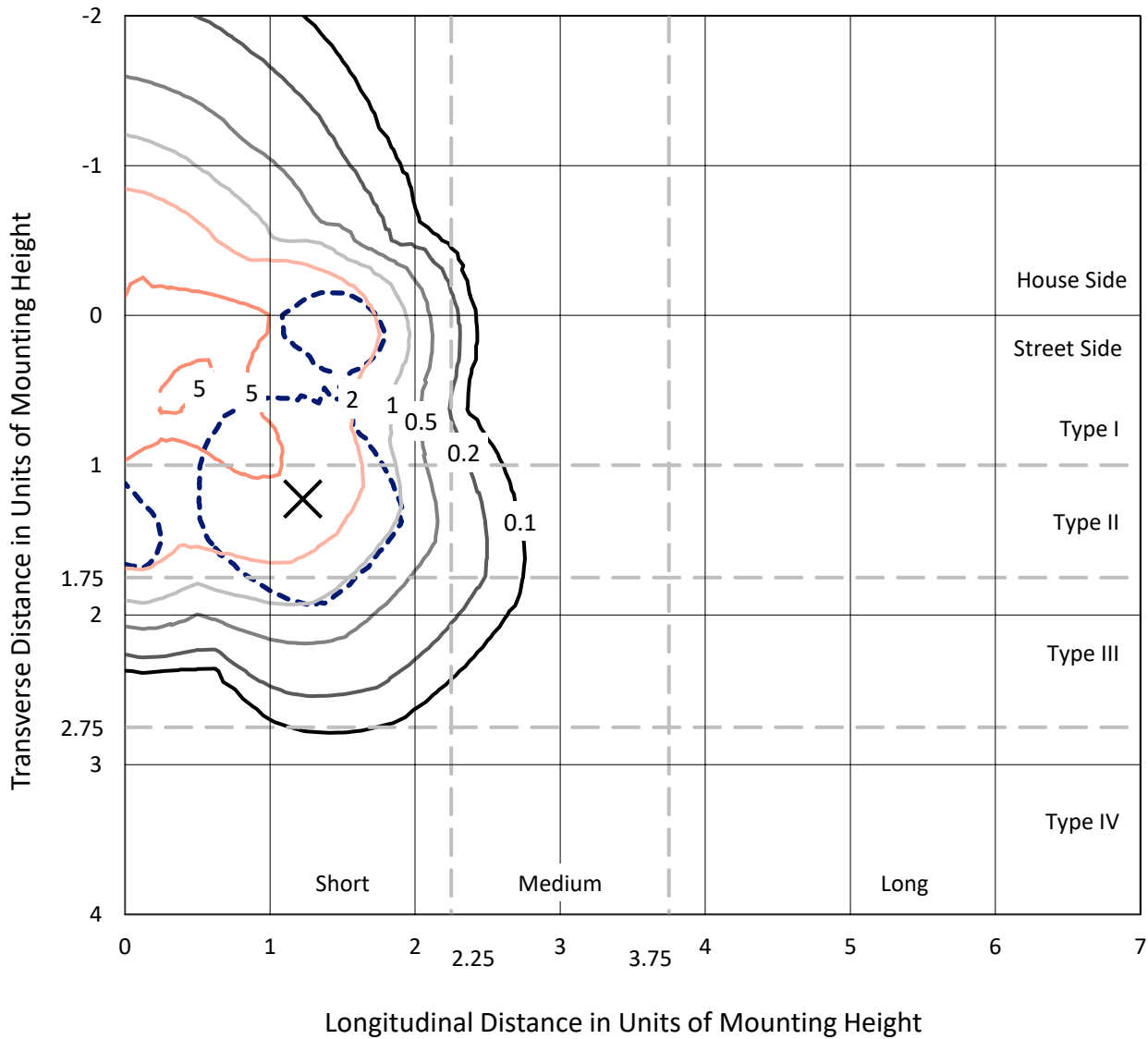
Lumens per Lamp: N/A  
Luminaire Lumens: 11324.6 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

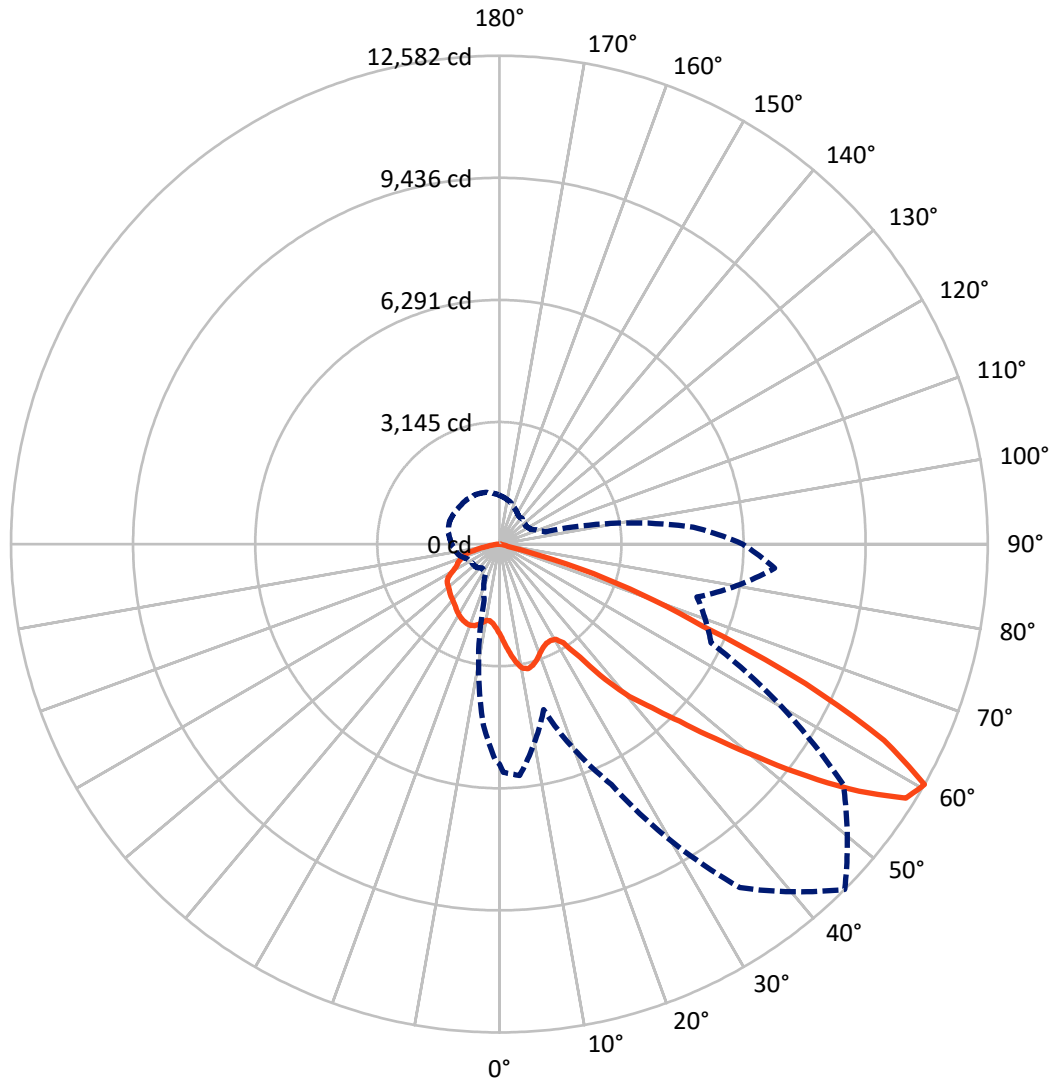
✕ Max cd  
 - - - 1/2 Max cd



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	3969.7	0.0	3969.7
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	7354.9	0.0	7354.9
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	11324.6	0.0	11324.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.0	2.0
10°-20°	717.3	6.3
20°-30°	1165.1	10.3
30°-40°	1643.1	14.5
40°-50°	2270.8	20.1
50°-60°	2923.2	25.8
60°-70°	1852.1	16.4
70°-80°	475.3	4.2
80°-90°	50.8	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°	11324.6	100.0
0°-180°	11324.6	100.0

**Coefficient of Utilization**



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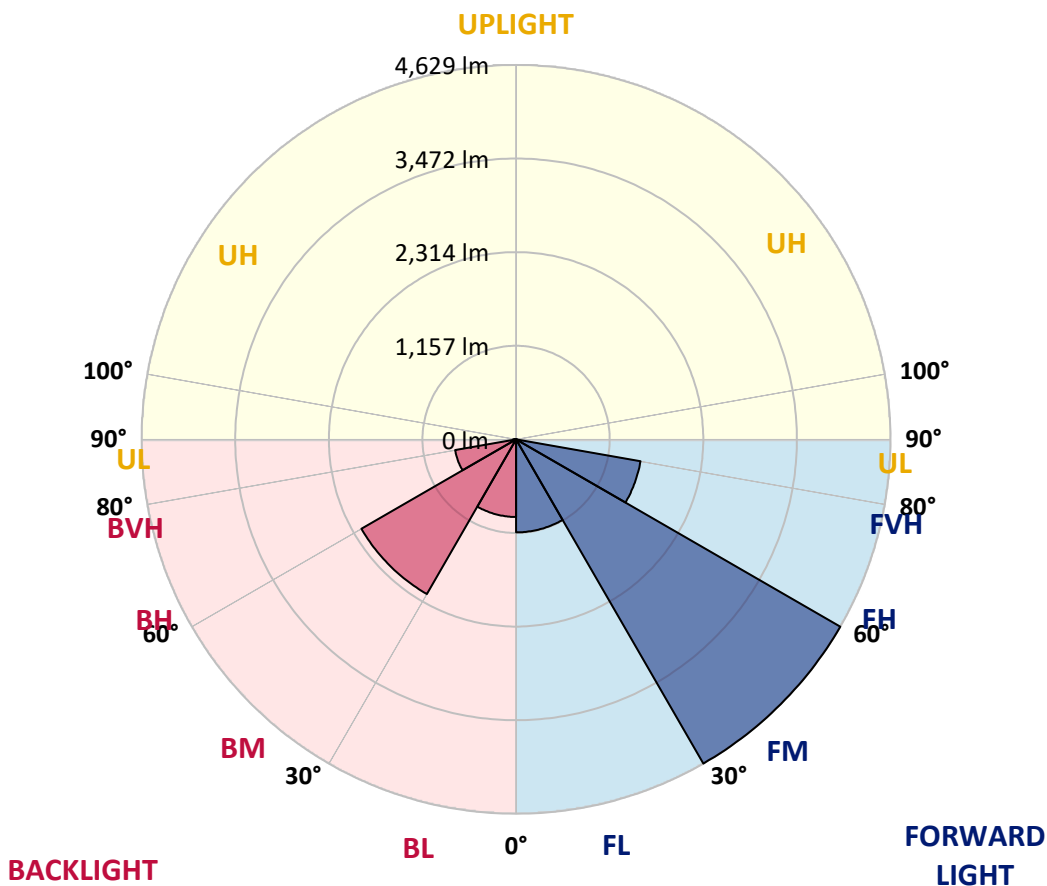
CATALOG NUMBER: GWS-SA4B-740-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.9	10.2			
FM (30°-60°)	4628.8	40.9			
FH (60°-80°)	1562.4	13.8			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	959.5	8.5	B2/1000		
BM (30°-60°)	2208.2	19.5	B2/2500		
BH (60°-80°)	765.0	6.8	B2/1000		G2/1000
BVH (80°-90°)	37.0	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°	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4
2.5°	2433.3	2449.9	2460.3	2480.0	2515.3	2535.0	2556.8	2532.9	2539.1	2536.0	2497.6
5°	2577.5	2597.2	2624.2	2682.3	2747.7	2784.0	2818.2	2813.1	2780.9	2726.9	2688.5
7.5°	2712.4	2735.2	2781.9	2876.4	2972.9	3028.9	3070.4	3043.4	3016.4	2931.4	2834.9
10°	2818.2	2831.7	2895.0	3021.6	3133.7	3197.0	3247.8	3241.6	3204.3	3108.8	2979.1
12.5°	2917.9	2927.2	2995.7	3122.3	3222.9	3250.9	3292.5	3305.9	3293.5	3221.9	3094.3
15°	3024.7	3042.4	3105.7	3202.2	3247.8	3218.8	3233.3	3270.7	3305.9	3305.9	3188.7
17.5°	3124.4	3139.9	3204.3	3245.8	3202.2	3125.4	3129.5	3177.3	3261.3	3349.5	3274.8
20°	3212.6	3227.1	3290.4	3250.9	3112.9	3000.9	2997.8	3055.9	3191.8	3377.5	3367.2
22.5°	3309.1	3329.8	3382.7	3255.1	3029.9	2887.8	2886.7	2946.9	3130.6	3405.6	3473.0
25°	3446.0	3478.2	3505.2	3291.4	2985.3	2814.1	2827.6	2884.7	3110.9	3451.2	3629.7
27.5°	3649.4	3675.3	3673.3	3367.2	2983.2	2784.0	2812.0	2878.4	3146.1	3532.2	3794.7
30°	3869.4	3882.9	3861.1	3473.0	3031.0	2802.7	2844.2	2923.1	3235.4	3666.0	4037.5
32.5°	4113.2	4129.8	4088.3	3631.8	3142.0	2940.7	3032.0	3070.4	3360.9	3859.0	4294.8
35°	4393.4	4425.6	4339.4	3841.4	3468.9	3444.0	3576.8	3527.0	3627.6	4087.3	4569.8
37.5°	4688.1	4689.1	4565.6	4151.6	4110.1	4152.7	4418.3	4262.7	4193.1	4341.5	4850.0
40°	4938.2	4931.9	4742.0	4569.8	4668.4	4837.5	5158.1	4919.5	4736.9	4682.9	5082.4
42.5°	5188.2	5165.4	4973.4	4835.4	5053.3	5401.0	5763.1	5470.5	5085.5	4993.2	5311.7
45°	5507.8	5500.6	5269.2	4941.3	5401.0	6031.8	6512.3	6038.1	5292.0	5173.7	5693.6
47.5°	6023.5	5988.3	5557.6	4933.0	5726.8	6872.3	7479.4	6753.0	5436.2	5177.9	6309.9
50°	6527.8	6484.3	5902.1	4931.9	6063.0	7744.0	8620.8	7621.5	5583.6	5202.8	6936.7
52.5°	7037.3	7037.3	6467.7	5049.2	6415.8	8717.3	9939.6	8703.8	5834.7	5528.6	7707.6
55°	7340.3	7421.3	7103.7	5247.4	6828.8	9862.8	11243.9	9872.2	6222.8	6116.9	8419.5
57.5°	6955.3	7106.8	7061.2	5109.4	7072.6	10704.4	12350.1	10758.3	6414.7	6186.5	8312.6
60°	5667.6	5878.3	5983.1	4412.1	6831.9	10801.9	12581.5	10816.4	6018.4	5268.1	7120.3
62.5°	3767.7	3941.0	4100.8	3152.4	5914.6	9717.6	11127.7	9720.7	5026.4	3931.6	4933.0
65°	1848.0	1976.7	2149.0	1863.6	4620.6	8119.6	8675.8	7855.0	3635.9	2200.8	2516.3
67.5°	483.5	519.9	543.7	723.2	3310.1	5833.7	5658.3	5745.5	2335.7	719.1	657.9
70°	251.1	253.2	252.1	298.8	2237.2	3707.5	3899.5	3607.9	1630.1	300.9	259.4
72.5°	179.5	180.6	177.4	201.3	1080.2	2124.1	2200.8	2177.0	854.0	178.5	177.4
75°	117.3	118.3	116.2	118.3	162.9	241.8	223.1	234.5	142.2	113.1	113.1
77.5°	69.5	70.6	69.5	71.6	69.5	69.5	64.3	64.3	61.2	61.2	62.3
80°	46.7	46.7	45.7	47.7	43.6	43.6	41.5	40.5	37.4	36.3	36.3
82.5°	28.0	29.1	28.0	28.0	25.9	25.9	23.9	22.8	19.7	19.7	18.7
85°	14.5	14.5	13.5	13.5	11.4	10.4	8.3	8.3	6.2	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°	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4
2.5°	2487.2	2466.5	2435.4	2405.3	2377.2	2348.2	2315.0	2280.7	2251.7	2221.6	2206.0
5°	2637.7	2595.2	2514.2	2442.6	2378.3	2325.4	2268.3	2219.5	2173.9	2136.5	2117.8
7.5°	2773.6	2707.2	2584.8	2471.7	2384.5	2311.9	2233.0	2160.4	2099.2	2053.5	2035.9
10°	2899.2	2820.3	2659.5	2516.3	2414.6	2333.7	2237.2	2138.6	2057.7	1997.5	1982.9
12.5°	3000.9	2910.6	2718.6	2552.6	2432.2	2345.1	2260.0	2174.9	2095.0	2017.2	2004.7
15°	3091.2	2984.3	2763.3	2575.4	2426.0	2315.0	2243.4	2233.0	2233.0	2144.8	2119.9
17.5°	3169.0	3051.7	2799.6	2585.8	2386.6	2225.8	2182.2	2272.4	2374.1	2310.8	2254.8
20°	3258.2	3116.1	2829.7	2585.8	2314.0	2112.6	2108.5	2262.1	2412.5	2413.6	2354.4
22.5°	3348.5	3190.8	2864.9	2576.5	2214.3	1981.9	2058.7	2220.6	2354.4	2411.5	2371.0
25°	3494.8	3294.5	2921.0	2569.2	2098.1	1892.7	2014.1	2165.6	2278.7	2338.9	2312.9
27.5°	3680.5	3431.5	3006.1	2580.6	1982.9	1839.7	1966.3	2094.0	2196.7	2249.6	2230.9
30°	3888.1	3589.2	3097.4	2600.3	1899.9	1812.8	1909.3	2012.0	2103.3	2156.2	2147.9
32.5°	4152.7	3760.4	3176.2	2573.4	1853.2	1799.3	1849.1	1922.8	2011.0	2044.2	2051.4
35°	4469.1	3949.3	3236.4	2467.5	1810.7	1784.8	1783.7	1829.4	1891.6	1944.6	1949.7
37.5°	4760.7	4170.3	3302.8	2285.9	1733.9	1748.4	1706.9	1733.9	1795.1	1848.0	1868.8
40°	5049.2	4394.4	3395.2	2054.5	1633.3	1667.5	1618.7	1637.4	1686.2	1755.7	1788.9
42.5°	5329.4	4596.8	3492.7	1818.0	1532.6	1554.4	1518.1	1536.8	1587.6	1674.8	1712.1
45°	5634.4	4870.7	3568.5	1594.9	1445.4	1436.1	1407.0	1434.0	1510.8	1606.3	1650.9
47.5°	6211.4	5302.4	3618.3	1446.5	1398.7	1331.3	1298.1	1356.2	1443.4	1539.9	1593.8
50°	6915.9	5927.0	3603.7	1352.1	1358.3	1223.4	1212.0	1288.8	1382.1	1482.8	1541.9
52.5°	7474.2	6540.3	3438.8	1261.8	1279.4	1154.9	1121.7	1233.8	1323.0	1425.7	1486.9
55°	7900.6	6746.8	2932.4	1154.9	1150.8	1105.1	1035.6	1176.7	1263.9	1359.3	1425.7
57.5°	7553.0	6287.1	2173.9	1007.6	982.7	1006.5	939.1	1080.2	1191.2	1285.6	1344.8
60°	6268.4	5012.9	1210.9	892.4	821.8	879.9	869.5	978.5	1112.4	1212.0	1262.8
62.5°	4255.4	3338.1	718.1	705.6	666.2	749.2	804.2	875.8	1007.6	1088.5	1136.2
65°	2121.0	1621.8	477.3	528.2	533.4	616.4	720.1	799.0	909.0	992.0	1039.7
67.5°	615.3	504.3	363.2	403.6	459.7	526.1	609.1	702.5	809.4	907.9	964.0
70°	265.6	268.8	288.5	336.2	391.2	459.7	542.7	634.0	724.3	800.0	842.6
72.5°	187.8	195.1	216.9	265.6	317.5	382.9	465.9	554.1	619.5	696.3	740.9
75°	120.4	125.6	143.2	180.6	218.9	282.2	361.1	442.0	509.5	564.5	607.0
77.5°	66.4	67.4	82.0	103.8	129.7	170.2	228.3	291.6	341.4	372.5	410.9
80°	38.4	38.4	45.7	59.1	74.7	99.6	131.8	162.9	193.0	212.7	231.4
82.5°	20.8	20.8	23.9	32.2	40.5	55.0	73.7	89.2	107.9	118.3	130.7
85°	6.2	6.2	8.3	11.4	14.5	20.8	29.1	37.4	45.7	52.9	60.2
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°	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4
2.5°	2202.9	2188.4	2180.1	2169.7	2172.8	2163.5	2158.3	2161.4	2142.7	2161.4	2180.1
5°	2110.6	2089.8	2073.2	2059.7	2053.5	2041.1	2033.8	2033.8	2022.4	2041.1	2063.9
7.5°	2029.6	2013.0	2004.7	1996.4	1987.1	1975.7	1963.2	1959.1	1951.8	1971.5	1991.2
10°	1975.7	1977.8	1982.9	1994.4	1992.3	1985.0	1966.3	1956.0	1956.0	1978.8	2008.9
12.5°	2000.6	2022.4	2034.8	2055.6	2059.7	2053.5	2034.8	2026.5	2047.3	2081.5	2131.3
15°	2097.1	2111.6	2122.0	2138.6	2137.6	2132.4	2117.8	2124.1	2192.5	2259.0	2303.6
17.5°	2201.9	2185.3	2183.2	2193.6	2196.7	2190.5	2182.2	2210.2	2323.3	2385.6	2408.4
20°	2277.6	2220.6	2208.1	2212.3	2220.6	2217.5	2217.5	2263.1	2380.4	2409.4	2380.4
22.5°	2300.5	2219.5	2200.8	2201.9	2213.3	2214.3	2219.5	2267.3	2335.7	2336.8	2292.2
25°	2264.1	2186.3	2172.8	2174.9	2188.4	2187.4	2189.4	2216.4	2246.5	2234.1	2200.8
27.5°	2195.7	2128.2	2124.1	2135.5	2153.1	2143.8	2137.6	2144.8	2159.3	2143.8	2114.7
30°	2117.8	2060.8	2062.8	2084.6	2103.3	2087.7	2072.2	2076.3	2077.4	2060.8	2027.6
32.5°	2035.9	1993.3	2000.6	2023.4	2045.2	2028.6	2012.0	2009.9	1990.2	1970.5	1938.3
35°	1953.9	1937.3	1946.6	1965.3	1984.0	1970.5	1960.1	1953.9	1911.3	1882.3	1855.3
37.5°	1879.2	1891.6	1908.2	1919.6	1925.9	1924.8	1918.6	1904.1	1848.0	1813.8	1778.5
40°	1812.8	1851.2	1868.8	1874.0	1883.3	1881.3	1880.2	1859.5	1785.8	1749.5	1709.0
42.5°	1752.6	1806.5	1836.6	1841.8	1847.0	1848.0	1844.9	1814.8	1730.8	1688.3	1649.9
45°	1694.5	1765.0	1803.4	1798.2	1805.5	1805.5	1808.6	1769.2	1676.8	1633.3	1592.8
47.5°	1643.6	1726.6	1761.9	1755.7	1759.8	1763.0	1766.1	1720.4	1617.7	1576.2	1534.7
50°	1596.9	1685.1	1715.2	1717.3	1717.3	1724.6	1723.5	1678.9	1567.9	1523.3	1481.8
52.5°	1547.1	1642.6	1674.8	1688.3	1692.4	1695.5	1681.0	1629.1	1517.0	1463.1	1424.7
55°	1489.0	1599.0	1628.1	1645.7	1654.0	1651.9	1632.2	1579.3	1465.2	1411.2	1367.6
57.5°	1400.8	1505.6	1547.1	1555.4	1568.9	1560.6	1537.8	1493.2	1382.1	1328.2	1283.6
60°	1304.3	1380.1	1413.3	1420.5	1410.2	1413.3	1410.2	1367.6	1271.1	1228.6	1182.9
62.5°	1177.7	1245.2	1280.5	1289.8	1272.2	1283.6	1279.4	1226.5	1130.0	1085.4	1044.9
65°	1082.3	1155.9	1197.4	1202.6	1197.4	1202.6	1188.1	1123.8	1032.5	986.8	945.3
67.5°	1007.6	1083.3	1126.9	1141.4	1136.2	1135.2	1112.4	1037.6	943.2	893.4	840.5
70°	878.9	945.3	1001.3	1036.6	1036.6	1016.9	973.3	903.8	828.0	785.5	744.0
72.5°	778.2	862.3	917.3	953.6	960.9	949.4	888.2	814.6	727.4	684.8	641.3
75°	641.3	723.2	782.4	830.1	839.5	827.0	756.4	683.8	602.9	561.4	517.8
77.5°	428.5	477.3	525.0	568.6	559.3	567.6	519.9	464.9	415.1	383.9	364.2
80°	241.8	273.9	288.5	312.3	312.3	312.3	281.2	255.3	227.2	209.6	189.9
82.5°	137.0	157.7	163.9	183.7	188.9	189.9	169.1	152.5	134.9	125.6	112.1
85°	63.3	74.7	75.7	87.2	91.3	99.6	90.3	78.9	68.5	64.3	56.0
87.5°	2.1	6.2	8.3	15.6	20.8	23.9	25.9	25.9	21.8	19.7	16.6
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: P636779

CATALOG NUMBER: GWS-SA4B-740-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4	2326.4
2.5°	2202.9	2227.8	2256.9	2277.6	2315.0	2346.1	2378.3	2413.6	2439.5	2433.3
5°	2091.9	2133.4	2186.3	2235.1	2304.6	2375.2	2453.0	2532.9	2579.6	2577.5
7.5°	2029.6	2088.8	2153.1	2218.5	2300.5	2402.2	2521.5	2646.0	2709.3	2712.4
10°	2062.8	2126.1	2169.7	2224.7	2310.8	2438.5	2581.7	2731.1	2803.7	2818.2
12.5°	2167.6	2162.5	2159.3	2198.8	2302.5	2464.4	2639.8	2818.2	2900.2	2917.9
15°	2267.3	2160.4	2096.0	2123.0	2265.2	2481.0	2696.8	2913.7	3006.1	3024.7
17.5°	2285.9	2124.1	2004.7	2023.4	2206.0	2486.2	2751.8	3007.1	3106.7	3124.4
20°	2234.1	2077.4	1938.3	1912.4	2131.3	2472.7	2786.1	3084.9	3193.9	3212.6
22.5°	2168.7	2035.9	1888.5	1821.1	2040.0	2459.2	2824.5	3166.9	3292.5	3309.1
25°	2100.2	1982.9	1841.8	1739.1	1936.2	2450.9	2888.8	3274.8	3426.3	3446.0
27.5°	2027.6	1918.6	1801.4	1699.7	1840.8	2461.3	2980.1	3449.1	3621.4	3649.4
30°	1949.7	1854.3	1775.4	1686.2	1775.4	2470.6	3080.8	3627.6	3830.0	3869.4
32.5°	1868.8	1795.1	1748.4	1692.4	1734.9	2448.8	3169.0	3827.9	4079.0	4113.2
35°	1787.9	1734.9	1714.2	1703.8	1681.0	2368.9	3240.6	4030.2	4363.3	4393.4
37.5°	1712.1	1672.7	1666.5	1677.9	1598.0	2238.2	3323.6	4287.6	4642.4	4688.1
40°	1641.6	1605.2	1604.2	1602.1	1506.7	2059.7	3435.6	4549.0	4917.4	4938.2
42.5°	1576.2	1530.5	1538.8	1513.9	1432.0	1866.7	3541.5	4772.1	5173.7	5188.2
45°	1518.1	1457.9	1467.2	1436.1	1396.7	1664.4	3634.9	5035.7	5498.5	5507.8
47.5°	1462.0	1397.7	1371.8	1369.7	1390.4	1477.6	3726.2	5543.1	6006.9	6023.5
50°	1410.2	1340.6	1267.0	1312.6	1352.1	1337.5	3840.3	6086.8	6532.0	6527.8
52.5°	1360.4	1269.0	1164.2	1252.4	1252.4	1233.8	3808.2	6416.8	6965.7	7037.3
55°	1303.3	1153.9	1057.4	1151.8	1106.1	1140.4	3238.5	6524.7	7238.6	7340.3
57.5°	1190.2	1011.7	927.7	978.5	910.0	1057.4	2326.4	5989.3	6774.8	6955.3
60°	1081.2	906.9	851.9	842.6	753.3	862.3	1507.7	4689.1	5576.3	5667.6
62.5°	953.6	816.6	769.9	698.3	606.0	627.8	913.1	3086.0	3746.9	3767.7
65°	857.1	739.8	650.6	565.5	496.0	455.5	539.6	1488.0	1873.0	1848.0
67.5°	735.7	634.0	548.9	487.7	430.6	379.8	359.0	442.0	500.1	483.5
70°	654.8	557.2	475.2	417.1	364.2	313.4	277.1	260.4	255.3	251.1
72.5°	564.5	479.4	394.3	338.3	288.5	241.8	208.6	188.9	183.7	179.5
75°	450.3	370.4	292.6	239.7	196.1	162.9	141.1	124.5	121.4	117.3
77.5°	297.8	237.6	174.3	142.2	116.2	98.6	84.0	73.7	71.6	69.5
80°	163.9	137.0	106.9	86.1	69.5	60.2	55.0	48.8	47.7	46.7
82.5°	97.5	82.0	61.2	48.8	40.5	36.3	33.2	30.1	29.1	28.0
85°	48.8	38.4	27.0	22.8	20.8	18.7	18.7	15.6	14.5	14.5
87.5°	12.5	10.4	6.2	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)