

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: P633310

Luminaire Tested: GWS-SA2E-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11357.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

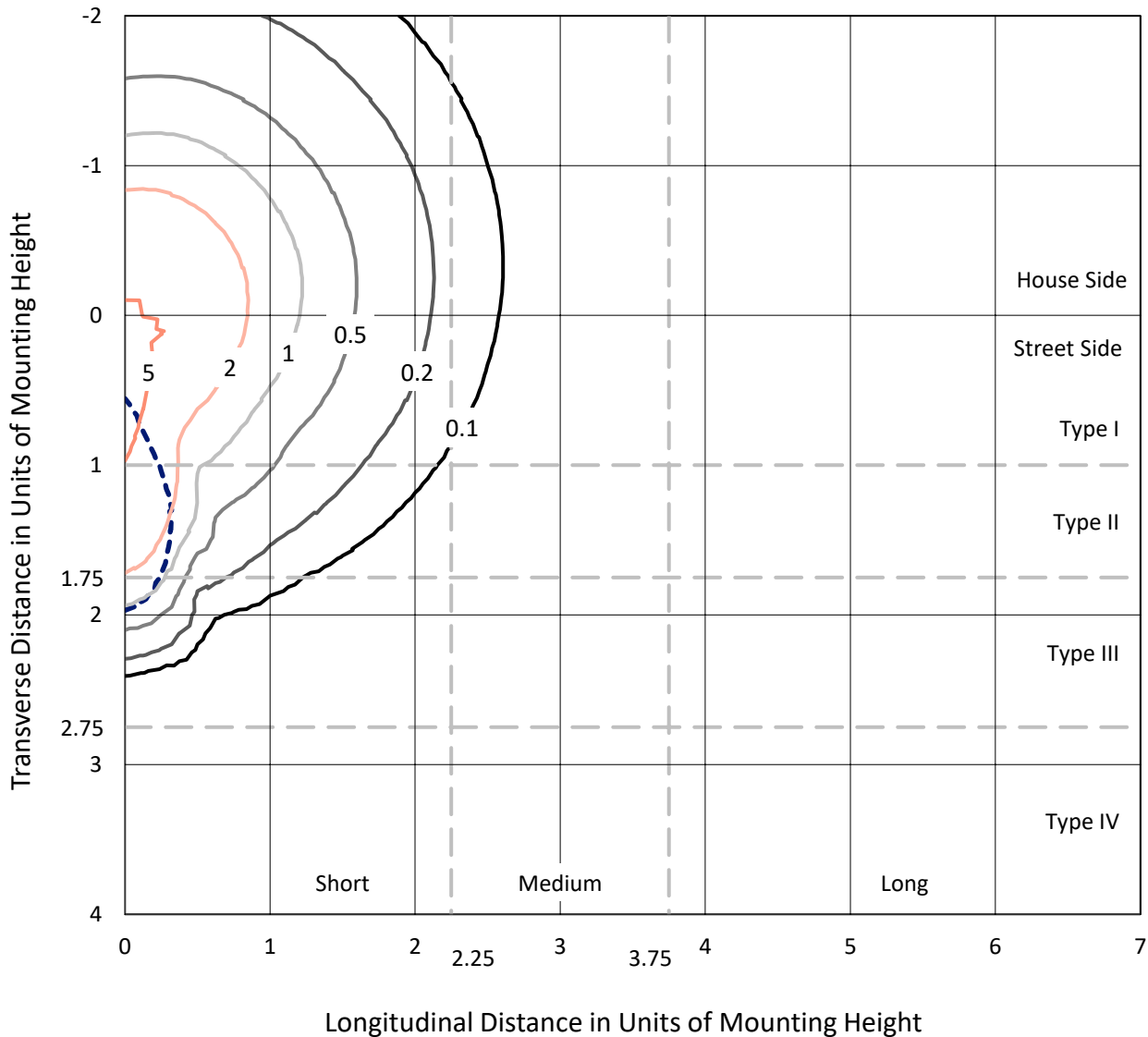
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

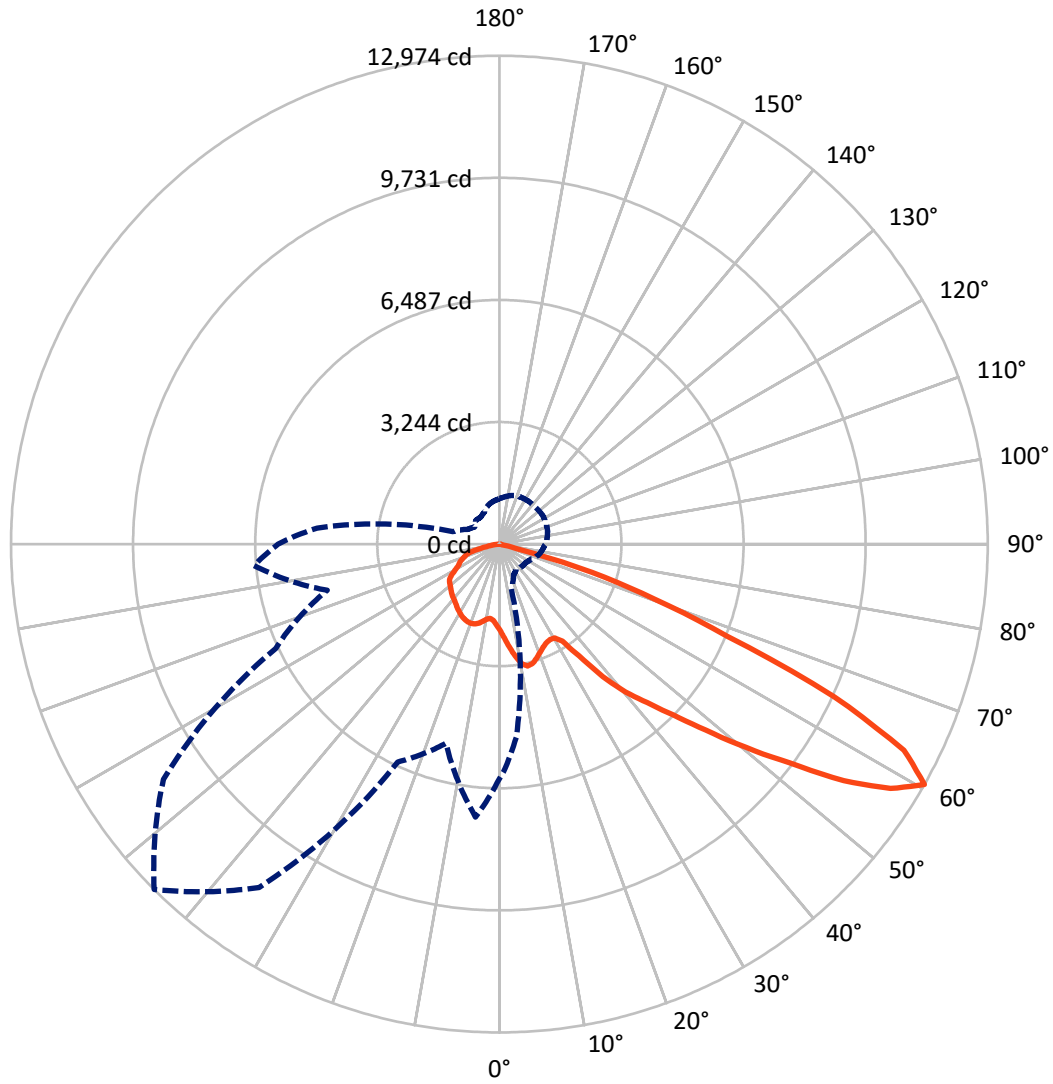
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3885.3	0.0	3885.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7472.1	0.0	7472.1
	% Fixture	65.8	0.0	65.8
Total	Lumens	11357.4	0.0	11357.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	2.0
10°-20°	717.8	6.3
20°-30°	1169.1	10.3
30°-40°	1642.3	14.5
40°-50°	2247.3	19.8
50°-60°	2883.1	25.4
60°-70°	1941.4	17.1
70°-80°	485.3	4.3
80°-90°	47.3	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°	11357.4	100.0
0°-180°	11357.4	100.0

Coefficient of Utilization



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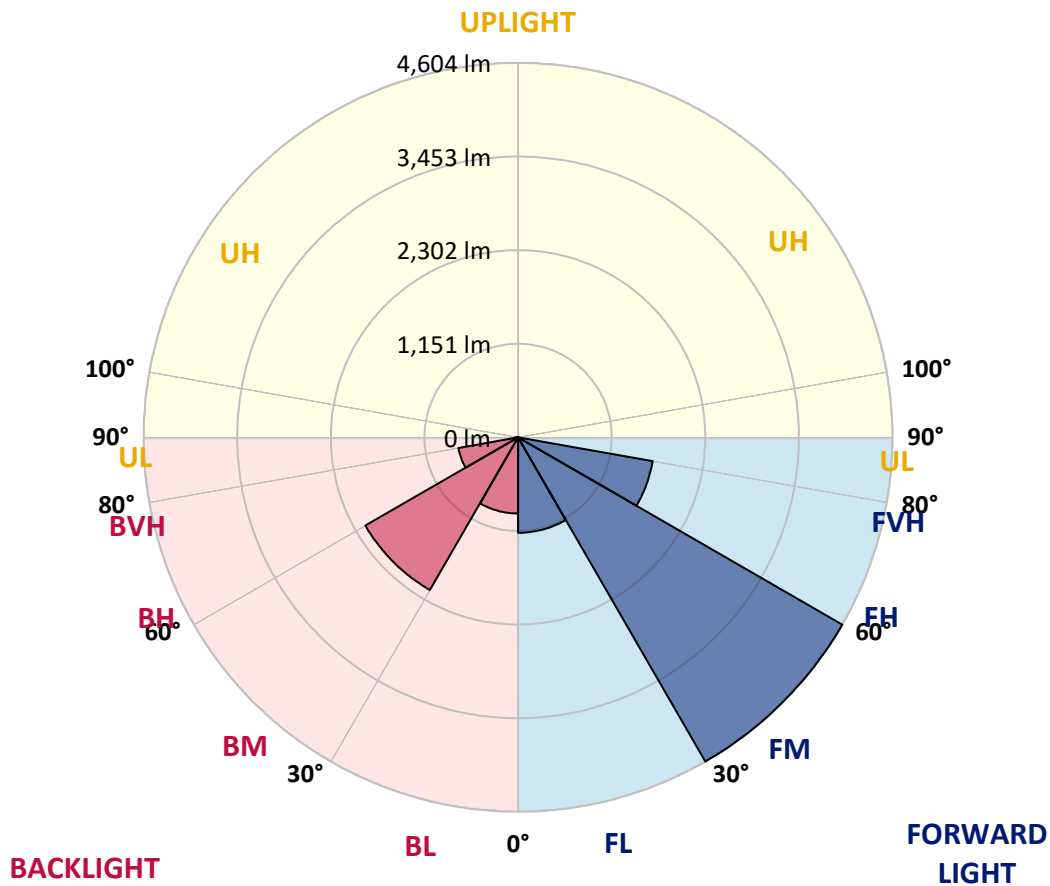
CATALOG NUMBER: GWS-SA2E-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.1	10.3			
FM (30°-60°)	4604.4	40.5			
FH (60°-80°)	1681.4	14.8			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	936.6	8.2	B2/1000		
BM (30°-60°)	2168.3	19.1	B2/2500		
BH (60°-80°)	745.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	35.0	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°	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2423.5	2418.3	2413.0	2372.3	2361.8	2332.5	2311.6	2285.4	2247.8	2226.9	2209.1
5°	2575.2	2566.8	2538.6	2454.9	2400.5	2340.9	2291.7	2237.3	2179.8	2142.1	2112.9
7.5°	2718.5	2716.4	2668.3	2530.2	2442.3	2356.6	2289.6	2210.1	2127.5	2071.0	2033.4
10°	2851.3	2835.6	2778.1	2598.2	2483.1	2384.8	2312.6	2224.8	2128.5	2052.2	2002.0
12.5°	2968.5	2948.6	2869.1	2660.9	2518.7	2397.4	2318.9	2246.7	2182.9	2119.1	2061.6
15°	3064.7	3040.6	2960.1	2719.5	2550.1	2390.0	2280.2	2223.7	2245.7	2273.9	2210.1
17.5°	3154.6	3129.5	3031.2	2762.4	2559.5	2345.1	2185.0	2161.0	2271.8	2400.5	2371.2
20°	3229.9	3201.7	3087.7	2783.3	2542.7	2259.3	2061.6	2103.4	2249.9	2403.6	2450.7
22.5°	3311.5	3288.5	3151.5	2813.7	2521.8	2141.1	1958.0	2060.6	2212.2	2347.1	2418.3
25°	3442.3	3414.0	3250.9	2867.0	2511.4	2030.2	1883.8	2018.7	2159.9	2282.3	2337.7
27.5°	3631.6	3579.3	3386.8	2960.1	2522.9	1925.6	1836.7	1967.5	2099.3	2203.9	2248.8
30°	3837.7	3774.9	3537.5	3056.3	2539.6	1861.8	1811.6	1908.9	2006.2	2110.8	2159.9
32.5°	4081.4	4025.9	3698.5	3128.5	2504.0	1832.5	1792.8	1845.1	1922.5	2006.2	2047.0
35°	4372.1	4272.8	3874.3	3187.1	2389.0	1789.6	1776.1	1775.0	1815.8	1897.4	1943.4
37.5°	4684.9	4578.2	4090.8	3249.8	2210.1	1721.7	1736.3	1692.4	1730.0	1794.9	1847.2
40°	4941.1	4829.2	4309.4	3335.6	1986.3	1615.0	1648.4	1601.4	1624.4	1691.3	1749.9
42.5°	5192.2	5072.9	4513.3	3432.9	1769.8	1510.4	1527.1	1509.3	1516.7	1586.7	1668.3
45°	5521.7	5387.8	4764.4	3501.9	1575.2	1427.7	1412.1	1381.7	1420.4	1511.4	1598.2
47.5°	6071.8	5911.8	5175.4	3546.9	1434.0	1380.7	1308.5	1290.7	1338.8	1440.3	1530.2
50°	6715.1	6577.0	5832.3	3544.8	1328.4	1340.9	1208.1	1192.4	1271.9	1374.4	1469.6
52.5°	7242.3	7102.1	6394.0	3440.2	1241.6	1256.2	1149.5	1105.6	1214.4	1309.6	1404.7
55°	7668.0	7510.0	6652.3	3003.0	1131.7	1121.3	1085.7	1005.2	1142.2	1244.7	1333.6
57.5°	7438.9	7250.6	6339.6	2283.3	1018.8	952.9	975.9	916.3	1043.9	1172.5	1258.3
60°	6237.1	6067.7	5150.3	1215.4	896.4	796.0	844.1	853.5	936.1	1085.7	1173.6
62.5°	4284.3	4160.9	3490.4	737.4	707.1	639.1	714.4	782.4	844.1	970.7	1047.0
65°	2096.1	2059.5	1745.7	472.8	494.7	516.7	592.0	674.6	765.6	876.5	957.1
67.5°	577.4	581.6	529.3	369.2	390.1	450.8	510.4	576.3	667.3	769.8	851.4
70°	254.2	258.4	266.7	284.5	324.2	379.7	441.4	509.4	593.1	678.8	757.3
72.5°	176.8	181.0	193.5	216.5	252.1	304.4	363.0	427.8	514.6	586.8	651.6
75°	108.8	111.9	123.4	143.3	167.4	207.1	264.6	324.2	400.6	466.5	524.0
77.5°	57.5	55.4	62.8	76.4	97.3	118.2	156.9	194.5	248.9	302.3	350.4
80°	31.4	30.3	34.5	41.8	48.1	64.8	91.0	116.1	147.5	177.8	204.0
82.5°	13.6	12.6	13.6	17.8	22.0	31.4	46.0	63.8	81.6	102.5	119.2
85°	0.0	0.0	0.0	1.0	5.2	8.4	15.7	23.0	33.5	46.0	56.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	9.4
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°	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2198.6	2172.5	2170.4	2149.5	2151.6	2152.6	2131.7	2123.3	2130.6	2139.0	2134.8
5°	2102.4	2075.2	2063.7	2043.8	2041.7	2032.3	2023.9	2013.5	2020.8	2028.1	2032.3
7.5°	2018.7	2000.9	1993.6	1988.4	1990.5	1986.3	1969.6	1960.1	1959.1	1962.2	1966.4
10°	1991.5	1976.9	1986.3	2000.9	2011.4	2018.7	2000.9	1985.2	1970.6	1964.3	1964.3
12.5°	2050.1	2031.3	2050.1	2065.8	2086.7	2091.9	2072.1	2055.3	2050.1	2056.4	2068.9
15°	2179.8	2135.9	2134.8	2144.2	2161.0	2169.3	2150.5	2142.1	2142.1	2181.9	2213.3
17.5°	2309.5	2237.3	2207.0	2201.8	2212.2	2215.4	2199.7	2192.3	2211.2	2288.6	2347.1
20°	2400.5	2312.6	2246.7	2234.2	2237.3	2238.4	2225.8	2220.6	2247.8	2341.9	2391.1
22.5°	2391.1	2326.2	2245.7	2230.0	2235.2	2233.1	2221.6	2219.5	2241.5	2323.1	2346.1
25°	2326.2	2276.0	2208.0	2197.6	2205.9	2204.9	2193.4	2188.2	2197.6	2252.0	2254.1
27.5°	2252.0	2208.0	2149.5	2146.3	2159.9	2167.2	2147.4	2131.7	2128.5	2165.2	2156.8
30°	2163.1	2130.6	2083.6	2085.7	2110.8	2114.9	2090.9	2067.9	2061.6	2081.5	2070.0
32.5°	2057.4	2047.0	2021.9	2027.1	2051.1	2059.5	2034.4	2010.3	2003.0	2009.3	1985.2
35°	1967.5	1963.3	1965.4	1974.8	1995.7	2002.0	1981.1	1962.2	1951.8	1929.8	1898.4
37.5°	1874.4	1885.9	1916.2	1934.0	1945.5	1943.4	1931.9	1918.3	1901.6	1860.8	1822.1
40°	1787.6	1816.8	1871.2	1891.1	1895.3	1896.3	1888.0	1876.5	1855.5	1801.2	1757.2
42.5°	1720.6	1753.0	1825.2	1855.5	1857.6	1859.7	1851.4	1841.9	1812.7	1740.5	1697.6
45°	1650.5	1693.4	1778.1	1814.8	1812.7	1811.6	1804.3	1800.1	1765.6	1681.9	1634.8
47.5°	1590.9	1641.1	1732.1	1763.5	1762.5	1761.4	1756.2	1756.2	1721.7	1630.7	1577.3
50°	1532.3	1589.9	1685.1	1711.2	1713.3	1711.2	1709.1	1712.2	1671.5	1574.2	1521.9
52.5°	1468.5	1533.4	1632.8	1656.8	1669.4	1674.6	1674.6	1667.3	1619.2	1517.7	1460.2
55°	1398.5	1460.2	1575.2	1607.7	1618.1	1627.5	1627.5	1612.9	1567.9	1465.4	1403.7
57.5°	1311.6	1366.0	1457.0	1489.5	1514.6	1520.8	1520.8	1496.8	1460.2	1361.8	1311.6
60°	1217.5	1264.6	1326.3	1360.8	1379.6	1367.1	1376.5	1370.2	1340.9	1249.9	1208.1
62.5°	1092.0	1140.1	1208.1	1243.7	1252.0	1239.5	1252.0	1251.0	1211.2	1129.6	1079.4
65°	1002.0	1049.1	1116.0	1162.1	1175.7	1172.5	1180.9	1168.3	1119.2	1041.8	993.7
67.5°	895.3	945.6	1023.0	1074.2	1102.4	1105.6	1117.1	1090.9	1040.7	956.0	895.3
70°	793.9	836.8	896.4	944.5	984.3	1004.1	1006.2	968.6	905.8	835.7	791.8
72.5°	687.2	731.1	803.3	855.6	905.8	928.8	928.8	882.8	814.8	737.4	690.3
75°	557.5	598.3	664.2	720.7	778.2	807.5	806.4	766.7	691.4	618.2	569.0
77.5°	377.6	407.9	449.8	492.7	501.0	524.0	535.5	485.3	443.5	403.7	359.8
80°	219.7	238.5	261.5	285.5	290.8	298.1	279.3	260.4	238.5	212.3	192.5
82.5°	128.7	141.2	152.7	171.5	174.7	176.8	160.0	151.7	133.9	118.2	105.6
85°	62.8	66.9	77.4	86.8	82.6	80.5	73.2	64.8	57.5	51.3	45.0
87.5°	12.6	12.6	18.8	17.8	14.6	12.6	7.3	9.4	2.1	2.1	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°	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2148.4	2166.2	2188.2	2217.4	2250.9	2286.5	2321.0	2347.1	2373.3	2412.0	2405.7
5°	2038.6	2068.9	2103.4	2148.4	2202.8	2264.5	2333.6	2402.6	2476.8	2539.6	2566.8
7.5°	1974.8	2008.3	2049.0	2107.6	2177.7	2253.0	2350.3	2462.2	2582.5	2665.1	2716.4
10°	1974.8	2017.7	2071.0	2127.5	2189.2	2266.6	2386.9	2527.1	2681.9	2790.6	2850.3
12.5°	2088.8	2131.7	2143.2	2141.1	2175.6	2261.4	2416.2	2595.0	2780.2	2895.2	2968.5
15°	2266.6	2281.3	2194.4	2114.9	2120.2	2223.7	2429.8	2649.4	2864.9	3003.0	3082.5
17.5°	2385.8	2347.1	2192.3	2053.2	2023.9	2159.9	2429.8	2701.7	2954.9	3110.7	3185.0
20°	2395.3	2299.0	2139.0	1993.6	1918.3	2075.2	2413.0	2741.5	3041.7	3214.3	3293.7
22.5°	2312.6	2217.4	2082.5	1942.4	1831.5	1972.7	2385.8	2771.8	3115.9	3311.5	3409.9
25°	2218.5	2139.0	2025.0	1890.1	1771.9	1869.1	2360.7	2823.1	3219.5	3443.3	3542.7
27.5°	2126.5	2059.5	1956.0	1846.1	1738.4	1779.2	2345.1	2898.4	3342.9	3630.6	3716.3
30°	2036.5	1975.8	1881.7	1804.3	1720.6	1720.6	2331.5	2985.2	3506.1	3840.8	3926.6
32.5°	1945.5	1888.0	1811.6	1763.5	1710.2	1697.6	2293.8	3066.8	3674.5	4070.9	4158.8
35°	1860.8	1803.2	1744.7	1724.8	1704.9	1679.8	2200.7	3130.6	3838.7	4339.7	4415.0
37.5°	1781.3	1725.8	1681.9	1676.7	1678.8	1631.7	2054.3	3183.9	4043.7	4614.8	4654.6
40°	1712.2	1650.5	1616.0	1615.0	1625.4	1554.3	1869.1	3260.3	4278.0	4848.1	4831.3
42.5°	1650.5	1585.7	1543.8	1553.3	1547.0	1476.9	1688.2	3330.4	4482.0	5066.7	5033.2
45°	1589.9	1527.1	1468.5	1482.1	1474.8	1428.8	1534.4	3381.6	4707.9	5329.2	5333.4
47.5°	1531.3	1469.6	1411.0	1394.3	1393.2	1414.1	1416.2	3398.3	5076.1	5751.8	5656.6
50°	1476.9	1415.2	1354.5	1298.0	1320.0	1384.9	1328.4	3385.8	5627.3	6218.3	5952.6
52.5°	1420.4	1361.8	1294.9	1193.4	1251.0	1314.8	1249.9	3340.8	5964.1	6630.4	6471.4
55°	1355.6	1300.1	1209.1	1085.7	1155.8	1169.4	1169.4	2905.7	6107.4	7038.3	7136.6
57.5°	1268.8	1195.5	1051.2	951.8	1014.6	962.3	1083.6	2033.4	5871.0	6909.7	7291.4
60°	1170.4	1092.0	939.3	868.2	887.0	794.9	923.6	1275.0	4865.8	5879.4	6540.4
62.5°	1040.7	968.6	842.0	786.6	747.9	648.5	743.7	806.4	3335.6	4365.9	4816.7
65°	953.9	874.4	761.5	688.2	608.8	521.9	493.7	529.3	1793.8	2443.4	2747.8
67.5°	851.4	773.0	666.3	574.2	510.4	447.7	398.5	386.0	615.0	813.8	880.7
70°	754.1	678.8	589.9	504.2	440.4	378.6	330.5	296.0	284.5	282.4	278.2
72.5°	654.8	584.7	510.4	430.9	360.9	304.4	261.5	221.7	205.0	199.8	194.5
75°	536.6	481.1	406.9	321.1	264.6	212.3	178.9	152.7	138.1	132.8	126.6
77.5°	345.2	320.1	255.2	207.1	160.0	126.6	108.8	92.0	82.6	80.5	75.3
80°	184.1	171.5	141.2	119.2	95.2	77.4	68.0	58.6	53.3	51.3	49.2
82.5°	102.5	93.1	78.4	69.0	55.4	47.1	41.8	37.7	34.5	33.5	32.4
85°	46.0	39.7	31.4	29.3	26.1	24.1	23.0	20.9	19.9	18.8	17.8
87.5°	2.1	4.2	5.2	4.2	4.2	6.3	7.3	7.3	6.3	6.3	5.2
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: P633310

CATALOG NUMBER: GWS-SA2E-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2444.4	2475.8	2478.9	2489.4	2475.8	2472.7	2450.7	2438.1	2426.6	2423.5
5°	2634.8	2697.5	2722.7	2740.4	2723.7	2715.3	2667.2	2617.0	2588.8	2575.2
7.5°	2830.4	2924.5	2973.7	2995.6	2997.7	2960.1	2877.5	2783.3	2736.2	2718.5
10°	3005.1	3121.2	3186.0	3227.9	3213.2	3167.2	3054.2	2926.6	2867.0	2851.3
12.5°	3134.8	3245.6	3295.8	3323.0	3322.0	3296.9	3190.2	3052.1	2984.1	2968.5
15°	3218.4	3284.3	3287.5	3293.7	3311.5	3345.0	3289.6	3162.0	3086.6	3064.7
17.5°	3284.3	3258.2	3209.0	3192.3	3232.0	3325.1	3358.6	3255.0	3173.5	3154.6
20°	3326.2	3194.4	3107.6	3075.1	3121.2	3272.8	3400.4	3338.7	3254.0	3229.9
22.5°	3358.6	3134.8	2994.6	2972.6	3020.8	3216.3	3443.3	3438.1	3345.0	3311.5
25°	3409.9	3095.0	2915.1	2899.4	2944.4	3189.2	3500.9	3573.0	3490.4	3442.3
27.5°	3490.4	3090.8	2874.3	2869.1	2930.8	3213.2	3583.5	3770.7	3667.2	3631.6
30°	3602.3	3130.6	2883.7	2894.2	2969.5	3300.0	3712.1	3996.6	3893.1	3837.7
32.5°	3763.4	3237.3	3027.0	3072.0	3127.4	3439.1	3900.4	4241.4	4162.9	4081.4
35°	3975.7	3530.1	3450.6	3642.1	3589.8	3743.5	4127.4	4538.4	4443.3	4372.1
37.5°	4259.2	4130.5	4203.7	4467.3	4340.8	4318.8	4404.6	4808.3	4756.0	4684.9
40°	4656.6	4682.8	4817.7	5163.9	4980.9	4839.7	4744.5	5011.2	5029.0	4941.1
42.5°	4920.2	5040.5	5365.8	5759.1	5507.0	5169.2	5029.0	5270.6	5271.7	5192.2
45°	5018.5	5333.4	6013.3	6466.2	6044.6	5357.4	5185.9	5623.1	5612.7	5521.7
47.5°	4983.0	5580.2	6685.8	7378.2	6735.0	5491.3	5163.9	6125.2	6209.9	6071.8
50°	4908.7	5828.1	7471.3	8495.3	7582.2	5633.6	5130.5	6681.6	6821.8	6715.1
52.5°	4984.0	6104.3	8400.2	9650.1	8644.9	5860.6	5356.4	7396.0	7370.9	7242.3
55°	5222.5	6430.6	9528.8	11100.8	9812.2	6244.4	5936.9	8077.0	7821.7	7668.0
57.5°	5211.0	6663.9	10518.2	12248.3	10827.8	6559.3	6138.8	8149.1	7633.5	7438.9
60°	4729.9	6557.2	10894.8	12974.2	11134.3	6385.6	5474.6	7278.9	6441.1	6237.1
62.5°	3530.1	5818.7	10164.7	12065.2	10267.2	5515.4	4116.9	5224.6	4628.4	4284.3
65°	2258.2	4552.0	8545.5	9774.6	8462.9	4218.4	2451.7	2801.1	2194.4	2096.1
67.5°	961.2	3213.2	6642.9	6533.1	6331.2	2733.1	946.6	788.7	587.8	577.4
70°	318.0	2186.1	4095.0	4357.5	3781.2	1882.7	312.7	264.6	263.6	254.2
72.5°	208.1	1173.6	2305.3	2566.8	2432.9	1083.6	189.3	176.8	181.0	176.8
75°	124.5	255.2	388.1	504.2	388.1	182.0	114.0	111.9	114.0	108.8
77.5°	73.2	71.1	69.0	69.0	68.0	62.8	57.5	55.4	56.5	57.5
80°	47.1	45.0	42.9	41.8	36.6	34.5	32.4	30.3	30.3	31.4
82.5°	30.3	28.2	26.1	23.0	18.8	15.7	14.6	12.6	12.6	13.6
85°	15.7	12.6	9.4	7.3	4.2	2.1	0.0	0.0	0.0	0.0
87.5°	3.1	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)