

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: P636885

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636885
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-SA4B-760-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 11366.7 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

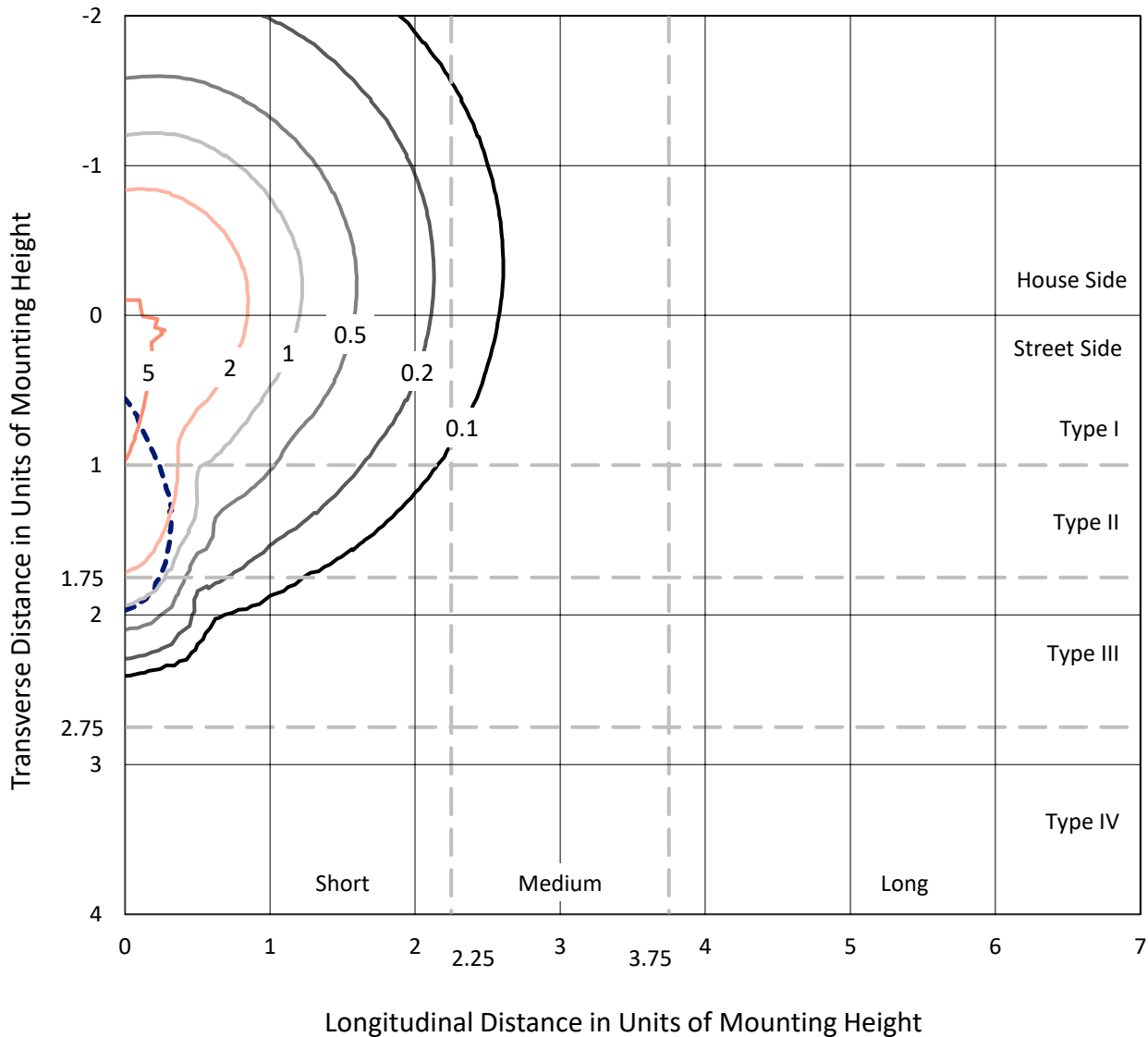
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

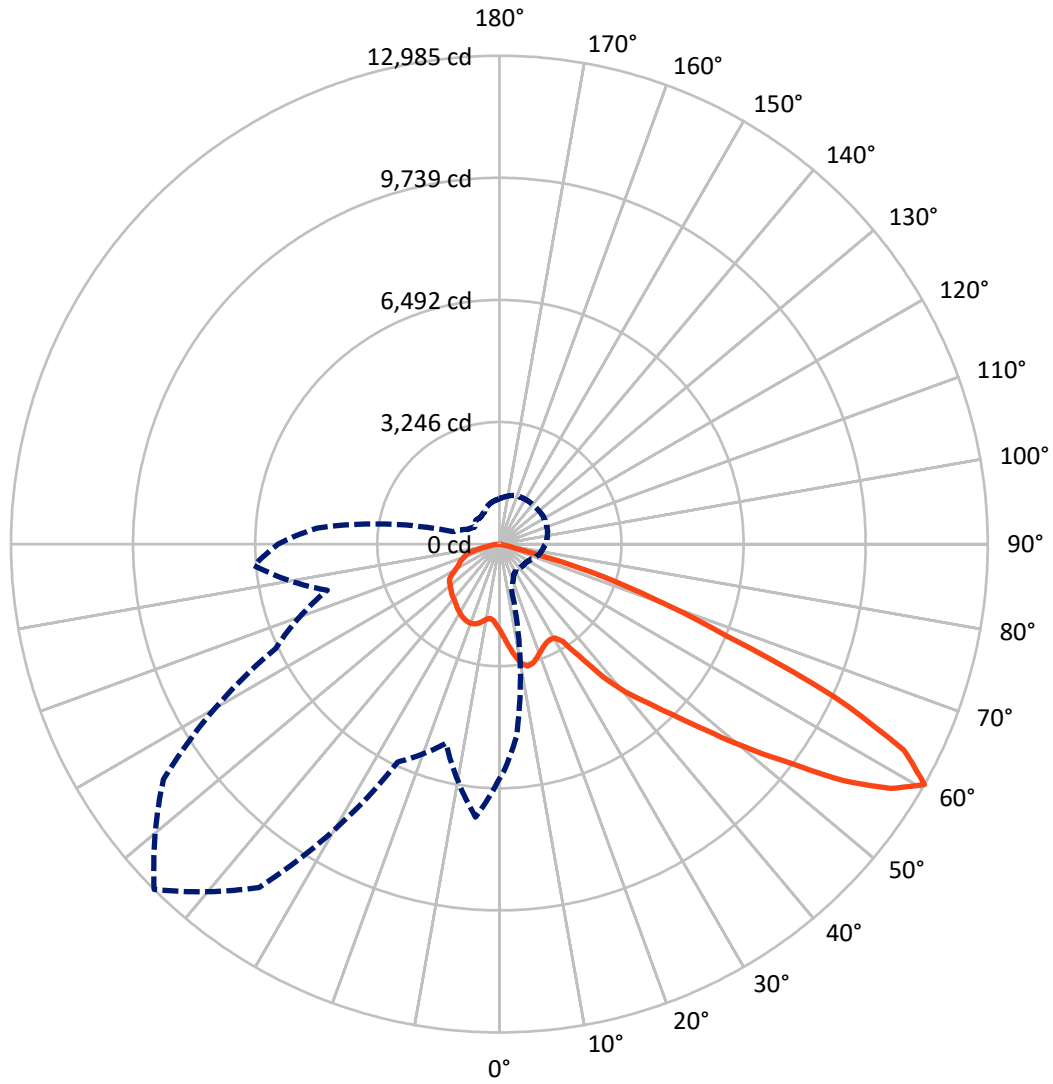
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	3888.5	0.0	3888.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7478.3	0.0	7478.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	11366.7	0.0	11366.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	2.0
10°-20°	718.4	6.3
20°-30°	1170.0	10.3
30°-40°	1643.6	14.5
40°-50°	2249.1	19.8
50°-60°	2885.5	25.4
60°-70°	1943.0	17.1
70°-80°	485.7	4.3
80°-90°	47.4	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°	11366.7	100.0
0°-180°	11366.7	100.0

Coefficient of Utilization



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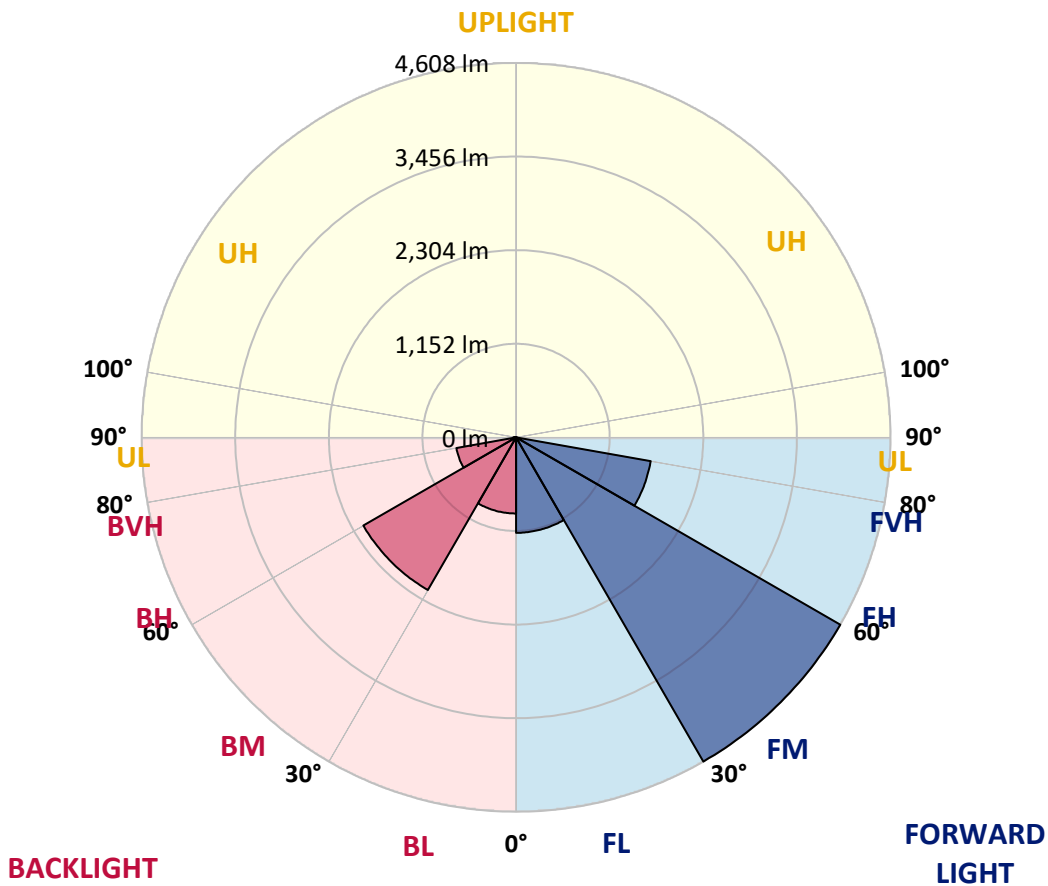
CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.1	10.3			
FM (30°-60°)	4608.2	40.5			
FH (60°-80°)	1682.7	14.8			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	937.4	8.2	B2/1000		
BM (30°-60°)	2170.1	19.1	B2/2500		
BH (60°-80°)	746.0	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°	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5
2.5°	2425.5	2420.3	2415.0	2374.2	2363.7	2334.4	2313.5	2287.3	2249.6	2228.7	2210.9
5°	2577.3	2568.9	2540.6	2456.9	2402.5	2342.8	2293.6	2239.2	2181.6	2143.9	2114.6
7.5°	2720.7	2718.6	2670.4	2532.3	2444.3	2358.5	2291.5	2211.9	2129.2	2072.7	2035.0
10°	2853.6	2837.9	2780.4	2600.3	2485.2	2386.8	2314.5	2226.6	2130.3	2053.9	2003.6
12.5°	2970.9	2951.0	2871.4	2663.1	2520.8	2399.3	2320.8	2248.6	2184.7	2120.9	2063.3
15°	3067.2	3043.1	2962.5	2721.7	2552.2	2392.0	2282.1	2225.5	2247.5	2275.8	2211.9
17.5°	3157.2	3132.1	3033.7	2764.7	2561.6	2347.0	2186.8	2162.7	2273.7	2402.5	2373.1
20°	3232.6	3204.3	3090.2	2785.6	2544.8	2261.1	2063.3	2105.2	2251.7	2405.6	2452.7
22.5°	3314.2	3291.2	3154.1	2816.0	2523.9	2142.8	1959.7	2062.2	2214.0	2349.1	2420.3
25°	3445.1	3416.8	3253.5	2869.3	2513.4	2031.9	1885.3	2020.4	2161.7	2284.2	2339.6
27.5°	3634.6	3582.2	3389.6	2962.5	2524.9	1927.2	1838.2	1969.1	2101.0	2205.7	2250.7
30°	3840.8	3778.0	3540.4	3058.8	2541.7	1863.3	1813.1	1910.5	2007.8	2112.5	2161.7
32.5°	4084.7	4029.2	3701.6	3131.0	2506.1	1834.0	1794.3	1846.6	1924.1	2007.8	2048.6
35°	4375.7	4276.3	3877.4	3189.7	2390.9	1791.1	1777.5	1776.5	1817.3	1898.9	1945.0
37.5°	4688.7	4581.9	4094.1	3252.5	2211.9	1723.1	1737.7	1693.8	1731.4	1796.3	1848.7
40°	4945.2	4833.2	4312.9	3338.3	1987.9	1616.3	1649.8	1602.7	1625.7	1692.7	1751.3
42.5°	5196.4	5077.1	4517.0	3435.7	1771.2	1511.6	1528.4	1510.6	1517.9	1588.0	1669.7
45°	5526.2	5392.2	4768.3	3504.8	1576.5	1428.9	1413.2	1382.9	1421.6	1512.7	1599.5
47.5°	6076.8	5916.6	5179.7	3549.8	1435.2	1381.8	1309.6	1291.8	1339.9	1441.5	1531.5
50°	6720.6	6582.4	5837.1	3547.7	1329.5	1342.0	1209.1	1193.4	1272.9	1375.5	1470.8
52.5°	7248.2	7107.9	6399.2	3443.0	1242.6	1257.2	1150.5	1106.5	1215.4	1310.6	1405.9
55°	7674.3	7516.2	6657.8	3005.4	1132.7	1122.2	1086.6	1006.0	1143.1	1245.7	1334.7
57.5°	7445.0	7256.6	6344.8	2285.2	1019.6	953.7	976.7	917.0	1044.7	1173.5	1259.3
60°	6242.2	6072.6	5154.6	1216.4	897.1	796.6	844.8	854.2	936.9	1086.6	1174.5
62.5°	4287.8	4164.3	3493.2	738.0	707.7	639.6	715.0	783.0	844.8	971.5	1047.9
65°	2097.8	2061.2	1747.1	473.2	495.1	517.1	592.5	675.2	766.3	877.2	957.8
67.5°	577.8	582.0	529.7	369.5	390.5	451.2	510.8	576.8	667.9	770.5	852.1
70°	254.4	258.6	266.9	284.7	324.5	380.0	441.8	509.8	593.5	679.4	757.9
72.5°	176.9	181.1	193.7	216.7	252.3	304.6	363.2	428.2	515.0	587.3	652.2
75°	108.9	112.0	123.5	143.4	167.5	207.3	264.8	324.5	400.9	466.9	524.5
77.5°	57.6	55.5	62.8	76.4	97.4	118.3	157.0	194.7	249.1	302.5	350.7
80°	31.4	30.4	34.5	41.9	48.2	64.9	91.1	116.2	147.6	178.0	204.1
82.5°	13.6	12.6	13.6	17.8	22.0	31.4	46.1	63.9	81.7	102.6	119.3
85°	0.0	0.0	0.0	1.0	5.2	8.4	15.7	23.0	33.5	46.1	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°	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5
2.5°	2200.4	2174.3	2172.2	2151.2	2153.3	2154.4	2133.4	2125.1	2132.4	2140.8	2136.6
5°	2104.1	2076.9	2065.4	2045.5	2043.4	2034.0	2025.6	2015.1	2022.5	2029.8	2034.0
7.5°	2020.4	2002.6	1995.2	1990.0	1992.1	1987.9	1971.2	1961.7	1960.7	1963.8	1968.0
10°	1993.2	1978.5	1987.9	2002.6	2013.0	2020.4	2002.6	1986.9	1972.2	1965.9	1965.9
12.5°	2051.8	2032.9	2051.8	2067.5	2088.4	2093.6	2073.8	2057.0	2051.8	2058.1	2070.6
15°	2181.6	2137.6	2136.6	2146.0	2162.7	2171.1	2152.3	2143.9	2143.9	2183.7	2215.1
17.5°	2311.4	2239.2	2208.8	2203.6	2214.0	2217.2	2201.5	2194.1	2213.0	2290.4	2349.1
20°	2402.5	2314.5	2248.6	2236.0	2239.2	2240.2	2227.6	2222.4	2249.6	2343.8	2393.0
22.5°	2393.0	2328.1	2247.5	2231.8	2237.1	2235.0	2223.5	2221.4	2243.3	2325.0	2348.0
25°	2328.1	2277.9	2209.8	2199.4	2207.7	2206.7	2195.2	2190.0	2199.4	2253.8	2255.9
27.5°	2253.8	2209.8	2151.2	2148.1	2161.7	2169.0	2149.1	2133.4	2130.3	2166.9	2158.5
30°	2164.8	2132.4	2085.3	2087.4	2112.5	2116.7	2092.6	2069.6	2063.3	2083.2	2071.7
32.5°	2059.1	2048.6	2023.5	2028.7	2052.8	2061.2	2036.1	2012.0	2004.7	2010.9	1986.9
35°	1969.1	1964.9	1967.0	1976.4	1997.3	2003.6	1982.7	1963.8	1953.4	1931.4	1900.0
37.5°	1875.9	1887.4	1917.8	1935.6	1947.1	1945.0	1933.5	1919.9	1903.1	1862.3	1823.6
40°	1789.0	1818.3	1872.8	1892.7	1896.8	1897.9	1889.5	1878.0	1857.1	1802.6	1758.7
42.5°	1722.0	1754.5	1826.7	1857.1	1859.2	1861.3	1852.9	1843.5	1814.1	1741.9	1699.0
45°	1651.9	1694.8	1779.6	1816.2	1814.1	1813.1	1805.8	1801.6	1767.0	1683.3	1636.2
47.5°	1592.2	1642.5	1733.5	1764.9	1763.9	1762.9	1757.6	1757.6	1723.1	1632.0	1578.6
50°	1533.6	1591.2	1686.4	1712.6	1714.7	1712.6	1710.5	1713.6	1672.8	1575.5	1523.1
52.5°	1469.7	1534.6	1634.1	1658.2	1670.7	1676.0	1676.0	1668.6	1620.5	1518.9	1461.4
55°	1399.6	1461.4	1576.5	1609.0	1619.4	1628.9	1628.9	1614.2	1569.2	1466.6	1404.8
57.5°	1312.7	1367.2	1458.2	1490.7	1515.8	1522.1	1522.1	1498.0	1461.4	1363.0	1312.7
60°	1218.5	1265.6	1327.4	1361.9	1380.8	1368.2	1377.6	1371.3	1342.0	1251.0	1209.1
62.5°	1092.9	1141.0	1209.1	1244.7	1253.0	1240.5	1253.0	1252.0	1212.2	1130.6	1080.3
65°	1002.9	1050.0	1117.0	1163.0	1176.6	1173.5	1181.9	1169.3	1120.1	1042.6	994.5
67.5°	896.1	946.3	1023.8	1075.1	1103.4	1106.5	1118.0	1091.8	1041.6	956.8	896.1
70°	794.5	837.5	897.1	945.3	985.1	1005.0	1007.0	969.4	906.5	836.4	792.4
72.5°	687.8	731.7	804.0	856.3	906.5	929.6	929.6	883.5	815.5	738.0	690.9
75°	558.0	598.8	664.7	721.3	778.8	808.1	807.1	767.3	692.0	618.7	569.5
77.5°	377.9	408.3	450.1	493.1	501.4	524.5	536.0	485.7	443.9	404.1	360.1
80°	219.8	238.7	261.7	285.8	291.0	298.3	279.5	260.7	238.7	212.5	192.6
82.5°	128.8	141.3	152.8	171.7	174.8	176.9	160.2	151.8	134.0	118.3	105.7
85°	62.8	67.0	77.5	86.9	82.7	80.6	73.3	64.9	57.6	51.3	45.0
87.5°	12.6	12.6	18.8	17.8	14.7	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°	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5
2.5°	2150.2	2168.0	2190.0	2219.3	2252.8	2288.4	2322.9	2349.1	2375.2	2414.0	2407.7
5°	2040.3	2070.6	2105.2	2150.2	2204.6	2266.4	2335.5	2404.6	2478.9	2541.7	2568.9
7.5°	1976.4	2009.9	2050.7	2109.3	2179.5	2254.9	2352.2	2464.2	2584.6	2667.3	2718.6
10°	1976.4	2019.3	2072.7	2129.2	2191.0	2268.5	2388.9	2529.1	2684.1	2792.9	2852.6
12.5°	2090.5	2133.4	2144.9	2142.8	2177.4	2263.2	2418.2	2597.2	2782.5	2897.6	2970.9
15°	2268.5	2283.1	2196.2	2116.7	2121.9	2225.5	2431.8	2651.6	2867.2	3005.4	3085.0
17.5°	2387.8	2349.1	2194.1	2054.9	2025.6	2161.7	2431.8	2703.9	2957.3	3113.3	3187.6
20°	2397.2	2300.9	2140.8	1995.2	1919.9	2076.9	2415.0	2743.7	3044.2	3216.9	3296.4
22.5°	2314.5	2219.3	2084.2	1944.0	1833.0	1974.3	2387.8	2774.1	3118.5	3314.2	3412.6
25°	2220.3	2140.8	2026.6	1891.6	1773.3	1870.7	2362.7	2825.4	3222.1	3446.1	3545.6
27.5°	2128.2	2061.2	1957.6	1847.6	1739.8	1780.6	2347.0	2900.7	3345.6	3633.5	3719.4
30°	2038.2	1977.4	1883.2	1805.8	1722.0	1722.0	2333.4	2987.6	3509.0	3843.9	3929.8
32.5°	1947.1	1889.5	1813.1	1764.9	1711.6	1699.0	2295.7	3069.3	3677.5	4074.2	4162.2
35°	1862.3	1804.7	1746.1	1726.2	1706.3	1681.2	2202.5	3133.1	3841.8	4343.3	4418.6
37.5°	1782.7	1727.3	1683.3	1678.1	1680.2	1633.0	2056.0	3186.5	4047.0	4618.6	4658.4
40°	1713.6	1651.9	1617.3	1616.3	1626.8	1555.6	1870.7	3262.9	4281.5	4852.0	4835.3
42.5°	1651.9	1587.0	1545.1	1554.5	1548.3	1478.1	1689.6	3333.1	4485.6	5070.8	5037.3
45°	1591.2	1528.4	1469.7	1483.3	1476.0	1430.0	1535.7	3384.4	4711.8	5333.6	5337.8
47.5°	1532.5	1470.8	1412.2	1395.4	1394.4	1415.3	1417.4	3401.1	5080.2	5756.5	5661.2
50°	1478.1	1416.4	1355.6	1299.1	1321.1	1386.0	1329.5	3388.6	5631.9	6223.4	5957.5
52.5°	1421.6	1363.0	1296.0	1194.4	1252.0	1315.9	1251.0	3343.6	5969.0	6635.8	6476.7
55°	1356.7	1301.2	1210.1	1086.6	1156.7	1170.3	1170.3	2908.1	6112.4	7044.1	7142.5
57.5°	1269.8	1196.5	1052.1	952.6	1015.4	963.1	1084.5	2035.0	5875.8	6915.3	7297.4
60°	1171.4	1092.9	940.0	868.9	887.7	795.6	924.3	1276.1	4869.8	5884.2	6545.8
62.5°	1041.6	969.4	842.7	787.2	748.5	649.0	744.3	807.1	3338.3	4369.4	4820.6
65°	954.7	875.1	762.1	688.8	609.3	522.4	494.1	529.7	1795.3	2445.4	2750.0
67.5°	852.1	773.6	666.8	574.7	510.8	448.0	398.8	386.3	615.5	814.4	881.4
70°	754.8	679.4	590.4	504.6	440.7	378.9	330.8	296.3	284.7	282.6	278.5
72.5°	655.3	585.2	510.8	431.3	361.2	304.6	261.7	221.9	205.2	199.9	194.7
75°	537.0	481.5	407.2	321.4	264.8	212.5	179.0	152.8	138.2	132.9	126.7
77.5°	345.5	320.3	255.4	207.3	160.2	126.7	108.9	92.1	82.7	80.6	75.4
80°	184.2	171.7	141.3	119.3	95.3	77.5	68.0	58.6	53.4	51.3	49.2
82.5°	102.6	93.2	78.5	69.1	55.5	47.1	41.9	37.7	34.5	33.5	32.5
85°	46.1	39.8	31.4	29.3	26.2	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: P636885

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5	2292.5
2.5°	2446.4	2477.8	2481.0	2491.4	2477.8	2474.7	2452.7	2440.1	2428.6	2425.5
5°	2636.9	2699.8	2724.9	2742.7	2725.9	2717.6	2669.4	2619.2	2590.9	2577.3
7.5°	2832.7	2926.9	2976.1	2998.1	3000.2	2962.5	2879.8	2785.6	2738.5	2720.7
10°	3007.5	3123.7	3188.6	3230.5	3215.8	3169.8	3056.7	2929.0	2869.3	2853.6
12.5°	3137.3	3248.3	3298.5	3325.8	3324.7	3299.6	3192.8	3054.6	2986.6	2970.9
15°	3221.1	3287.0	3290.2	3296.4	3314.2	3347.7	3292.3	3164.5	3089.2	3067.2
17.5°	3287.0	3260.9	3211.7	3194.9	3234.7	3327.9	3361.3	3257.7	3176.1	3157.2
20°	3328.9	3197.0	3110.1	3077.7	3123.7	3275.5	3403.2	3341.5	3256.7	3232.6
22.5°	3361.3	3137.3	2997.1	2975.1	3023.2	3219.0	3446.1	3440.9	3347.7	3314.2
25°	3412.6	3097.5	2917.5	2901.8	2946.8	3191.8	3503.7	3575.9	3493.2	3445.1
27.5°	3493.2	3093.4	2876.7	2871.4	2933.2	3215.8	3586.4	3773.8	3670.2	3634.6
30°	3605.3	3133.1	2886.1	2896.6	2971.9	3302.7	3715.2	3999.9	3896.3	3840.8
32.5°	3766.5	3239.9	3029.5	3074.5	3130.0	3442.0	3903.6	4244.9	4166.4	4084.7
35°	3979.0	3533.0	3453.5	3645.0	3592.7	3746.6	4130.8	4542.2	4446.9	4375.7
37.5°	4262.7	4133.9	4207.2	4471.0	4344.3	4322.3	4408.2	4812.2	4759.9	4688.7
40°	4660.5	4686.6	4821.7	5168.2	4985.0	4843.7	4748.4	5015.3	5033.1	4945.2
42.5°	4924.3	5044.6	5370.2	5763.8	5511.5	5173.4	5033.1	5274.9	5276.0	5196.4
45°	5022.7	5337.8	6018.2	6471.5	6049.6	5361.8	5190.1	5627.7	5617.3	5526.2
47.5°	4987.1	5584.8	6691.3	7384.3	6740.5	5495.8	5168.2	6130.2	6215.0	6076.8
50°	4912.7	5832.9	7477.5	8502.3	7588.4	5638.2	5134.7	6687.1	6827.4	6720.6
52.5°	4988.1	6109.3	8407.0	9658.0	8652.0	5865.3	5360.8	7402.1	7377.0	7248.2
55°	5226.8	6435.9	9536.6	11109.9	9820.2	6249.5	5941.8	8083.6	7828.1	7674.3
57.5°	5215.3	6669.3	10526.9	12258.3	10836.7	6564.6	6143.8	8155.8	7639.7	7445.0
60°	4733.7	6562.5	10903.7	12984.8	11143.4	6390.9	5479.1	7284.8	6446.3	6242.2
62.5°	3533.0	5823.5	10173.0	12075.1	10275.6	5519.9	4120.3	5228.9	4632.2	4287.8
65°	2260.1	4555.8	8552.5	9782.6	8469.8	4221.8	2453.8	2803.4	2196.2	2097.8
67.5°	962.0	3215.8	6648.4	6538.5	6336.4	2735.3	947.4	789.3	588.3	577.8
70°	318.2	2187.9	4098.3	4361.1	3784.3	1884.3	313.0	264.8	263.8	254.4
72.5°	208.3	1174.5	2307.2	2568.9	2434.9	1084.5	189.5	176.9	181.1	176.9
75°	124.6	255.4	388.4	504.6	388.4	182.1	114.1	112.0	114.1	108.9
77.5°	73.3	71.2	69.1	69.1	68.0	62.8	57.6	55.5	56.5	57.6
80°	47.1	45.0	42.9	41.9	36.6	34.5	32.5	30.4	30.4	31.4
82.5°	30.4	28.3	26.2	23.0	18.8	15.7	14.7	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)