

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: P633420

Luminaire Tested: GWS-SA2E-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633420
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11458.4 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

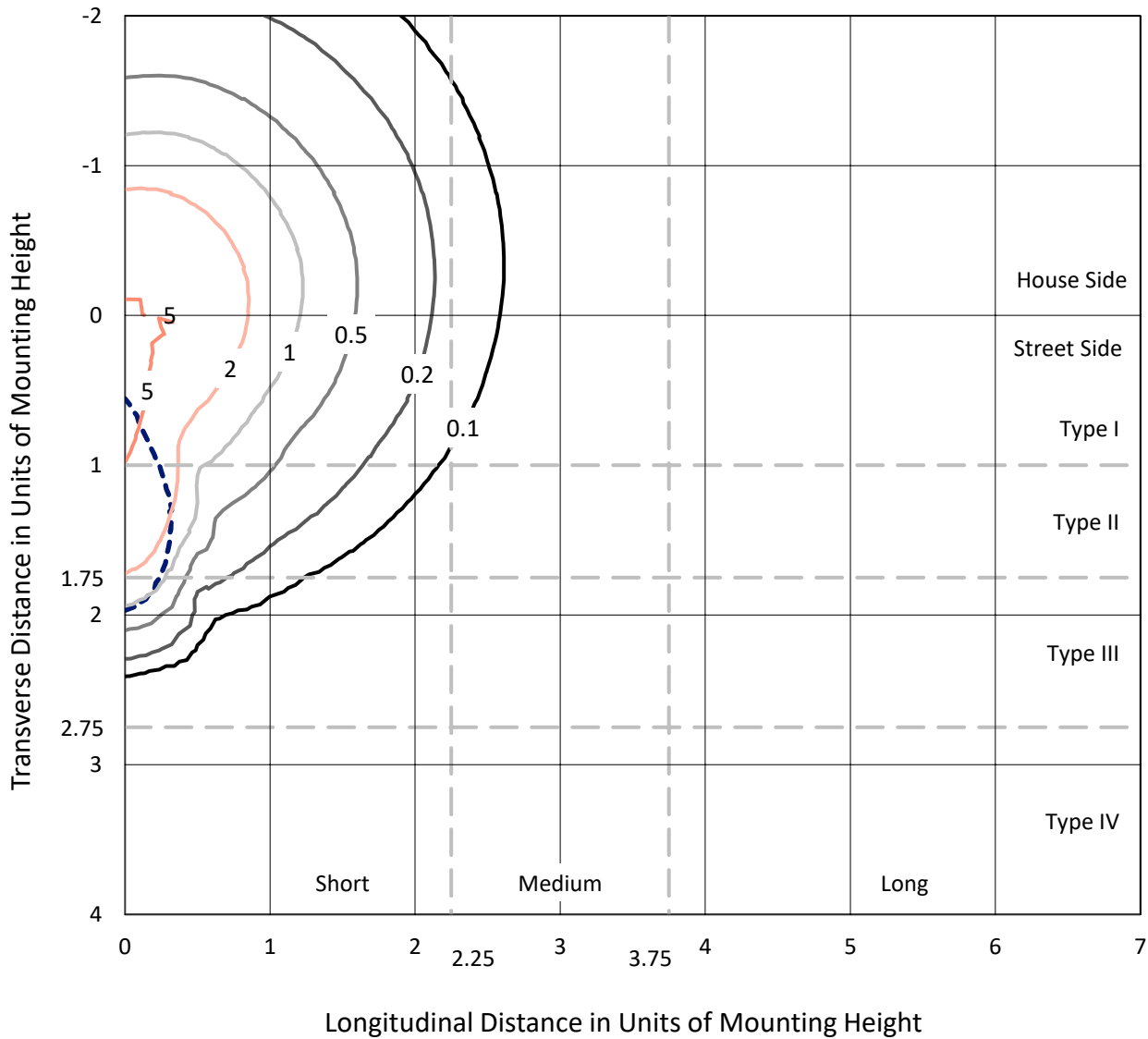
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

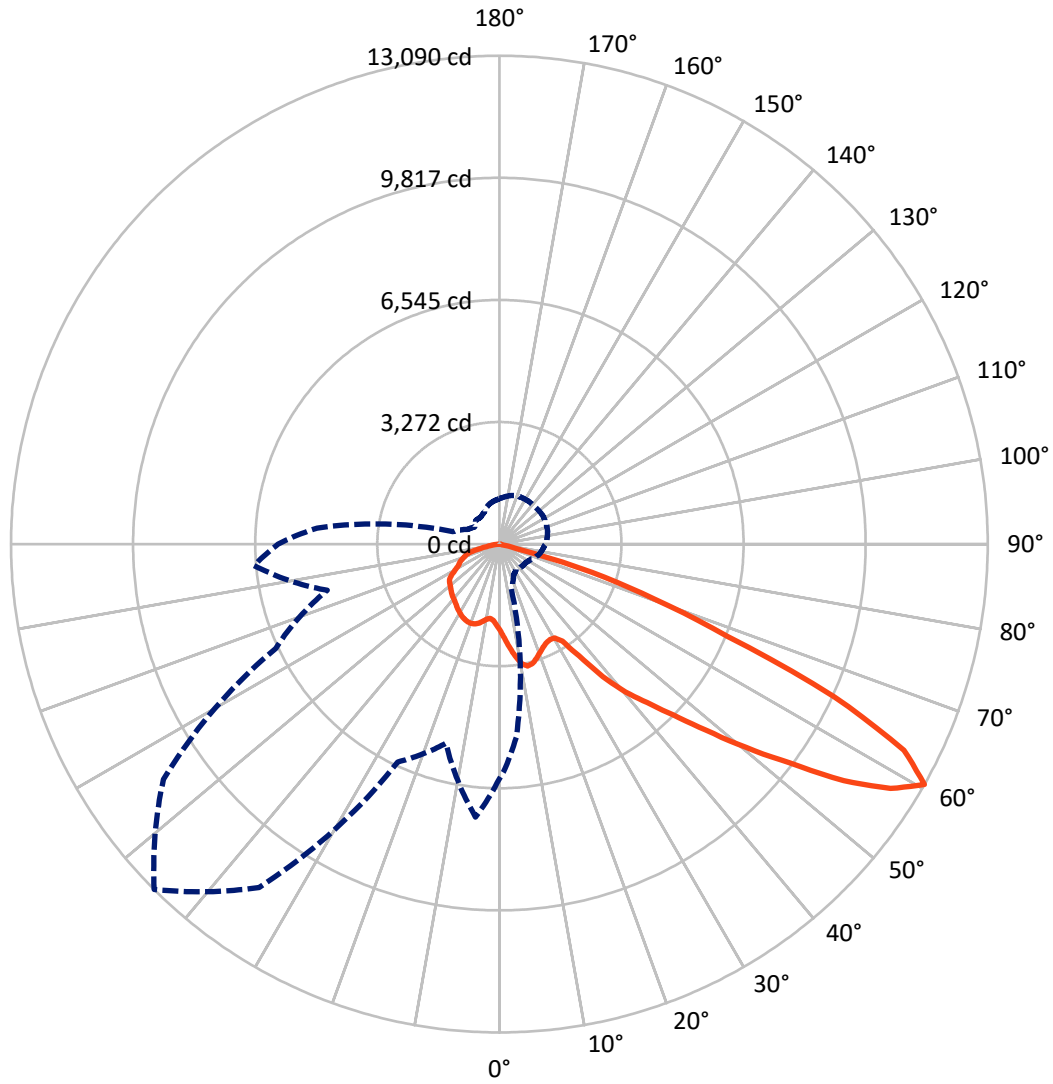
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 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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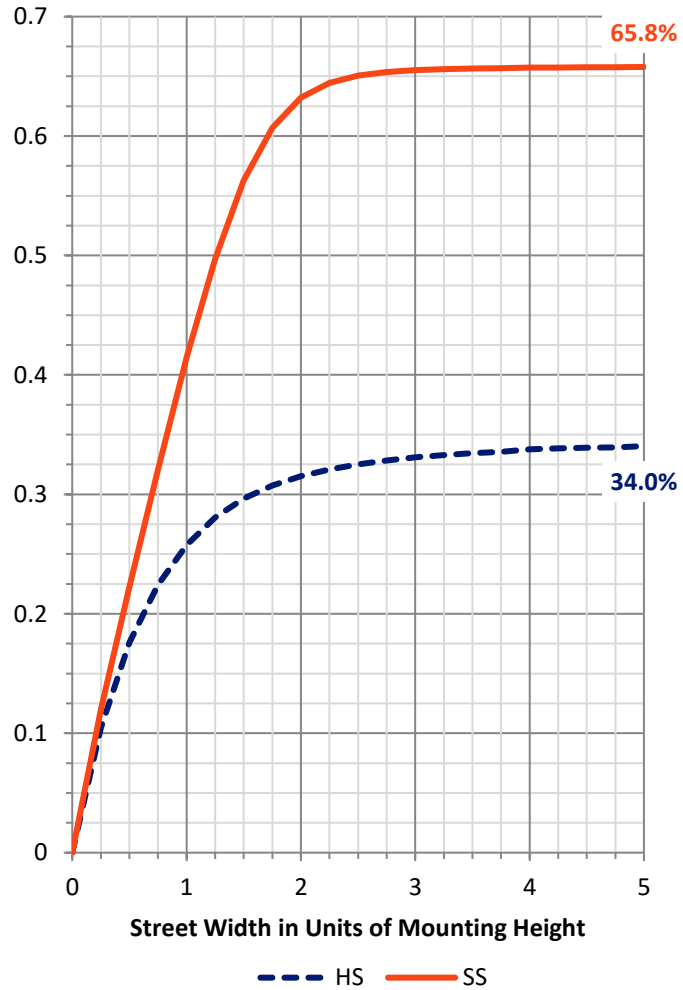
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3919.8	0.0	3919.8
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7538.6	0.0	7538.6
	% Fixture	65.8	0.0	65.8
Total	Lumens	11458.4	0.0	11458.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	2.0
10°-20°	724.2	6.3
20°-30°	1179.4	10.3
30°-40°	1656.9	14.5
40°-50°	2267.3	19.8
50°-60°	2908.8	25.4
60°-70°	1958.6	17.1
70°-80°	489.7	4.3
80°-90°	47.7	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°	11458.4	100.0
0°-180°	11458.4	100.0

Coefficient of Utilization



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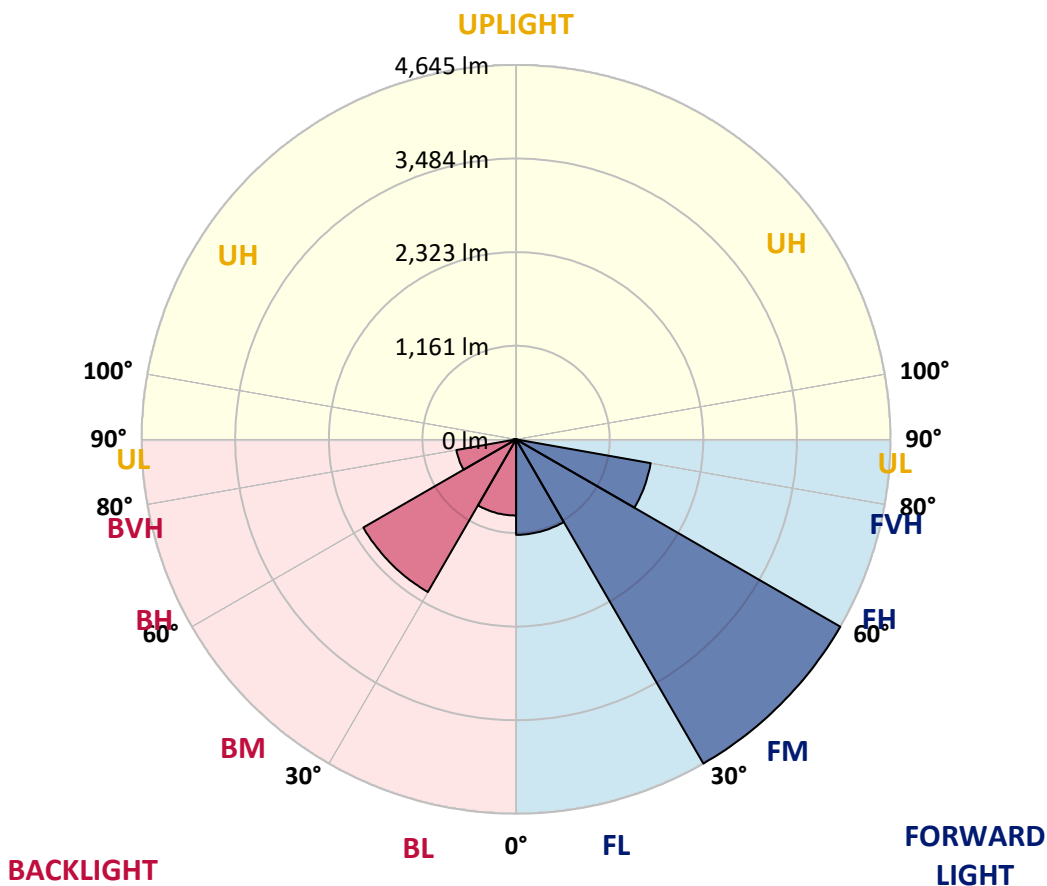
CATALOG NUMBER: GWS-SA2E-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.5	10.3			
FM (30°-60°)	4645.3	40.5			
FH (60°-80°)	1696.3	14.8			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	944.9	8.2	B2/1000		
BM (30°-60°)	2187.6	19.1	B2/2500		
BH (60°-80°)	752.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	35.3	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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2445.1	2439.8	2434.5	2393.3	2382.8	2353.2	2332.1	2305.8	2267.8	2246.7	2228.7
5°	2598.1	2589.6	2561.1	2476.7	2421.8	2361.7	2312.1	2257.2	2199.2	2161.2	2131.6
7.5°	2742.6	2740.5	2692.0	2552.7	2464.1	2377.5	2310.0	2229.8	2146.4	2089.4	2051.4
10°	2876.7	2860.8	2802.8	2621.3	2505.2	2406.0	2333.2	2244.6	2147.5	2070.4	2019.8
12.5°	2994.9	2974.8	2894.6	2684.6	2541.1	2418.7	2339.5	2266.7	2202.3	2138.0	2079.9
15°	3091.9	3067.7	2986.4	2743.7	2572.7	2411.3	2300.5	2243.5	2265.7	2294.2	2229.8
17.5°	3182.7	3157.4	3058.2	2787.0	2582.2	2365.9	2204.5	2180.2	2292.0	2421.8	2392.3
20°	3258.7	3230.2	3115.2	2808.1	2565.4	2279.4	2079.9	2122.1	2269.9	2425.0	2472.5
22.5°	3341.0	3317.8	3179.5	2838.7	2544.3	2160.1	1975.5	2078.9	2231.9	2368.0	2439.8
25°	3472.9	3444.4	3279.8	2892.5	2533.7	2048.3	1900.5	2036.7	2179.1	2302.6	2358.5
27.5°	3663.9	3611.1	3417.0	2986.4	2545.3	1942.7	1853.1	1985.0	2117.9	2223.5	2268.8
30°	3871.8	3808.5	3568.9	3083.5	2562.2	1878.4	1827.7	1925.9	2024.0	2129.5	2179.1
32.5°	4117.7	4061.7	3731.4	3156.3	2526.3	1848.8	1808.7	1861.5	1939.6	2024.0	2065.2
35°	4411.0	4310.8	3908.7	3215.4	2410.2	1805.6	1791.8	1790.8	1831.9	1914.3	1960.7
37.5°	4726.5	4618.9	4127.2	3278.7	2229.8	1737.0	1751.7	1707.4	1745.4	1810.8	1863.6
40°	4985.1	4872.2	4347.7	3365.3	2004.0	1629.3	1663.1	1615.6	1638.8	1706.4	1765.5
42.5°	5238.4	5118.1	4553.5	3463.4	1785.5	1523.8	1540.7	1522.8	1530.1	1600.8	1683.2
45°	5570.8	5435.7	4806.7	3533.0	1589.2	1440.4	1424.6	1394.0	1433.1	1524.9	1612.4
47.5°	6125.8	5964.4	5221.5	3578.4	1446.8	1393.0	1320.1	1302.2	1350.7	1453.1	1543.9
50°	6774.8	6635.5	5884.2	3576.3	1340.2	1352.9	1218.8	1203.0	1283.2	1386.6	1482.7
52.5°	7306.7	7165.3	6450.9	3470.8	1252.6	1267.4	1159.7	1115.4	1225.2	1321.2	1417.2
55°	7736.2	7576.8	6711.5	3029.7	1141.8	1131.2	1095.4	1014.1	1152.4	1255.8	1345.5
57.5°	7505.1	7315.1	6396.0	2303.7	1027.8	961.3	984.6	924.4	1053.2	1183.0	1269.5
60°	6292.6	6121.6	5196.1	1226.2	904.4	803.1	851.6	861.1	944.5	1095.4	1184.0
62.5°	4322.4	4197.9	3521.4	744.0	713.4	644.8	720.7	789.3	851.6	979.3	1056.3
65°	2114.8	2077.8	1761.2	477.0	499.1	521.3	597.3	680.6	772.5	884.3	965.6
67.5°	582.5	586.7	534.0	372.5	393.6	454.8	515.0	581.5	673.3	776.7	859.0
70°	256.4	260.7	269.1	287.0	327.1	383.1	445.3	513.9	598.3	684.9	764.0
72.5°	178.3	182.6	195.2	218.4	254.3	307.1	366.2	431.6	519.2	592.0	657.4
75°	109.7	112.9	124.5	144.6	168.8	208.9	267.0	327.1	404.2	470.6	528.7
77.5°	58.0	55.9	63.3	77.0	98.1	119.2	158.3	196.3	251.2	305.0	353.5
80°	31.7	30.6	34.8	42.2	48.5	65.4	91.8	117.1	148.8	179.4	205.8
82.5°	13.7	12.7	13.7	17.9	22.2	31.7	46.4	64.4	82.3	103.4	120.3
85°	0.0	0.0	0.0	1.1	5.3	8.4	15.8	23.2	33.8	46.4	57.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	9.5
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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2218.2	2191.8	2189.7	2168.6	2170.7	2171.7	2150.6	2142.2	2149.6	2158.0	2153.8
5°	2121.1	2093.7	2082.0	2062.0	2059.9	2050.4	2041.9	2031.4	2038.8	2046.2	2050.4
7.5°	2036.7	2018.7	2011.3	2006.1	2008.2	2004.0	1987.1	1977.6	1976.5	1979.7	1983.9
10°	2009.2	1994.5	2004.0	2018.7	2029.3	2036.7	2018.7	2002.9	1988.1	1981.8	1981.8
12.5°	2068.3	2049.3	2068.3	2084.2	2105.3	2110.5	2090.5	2073.6	2068.3	2074.7	2087.3
15°	2199.2	2154.9	2153.8	2163.3	2180.2	2188.6	2169.6	2161.2	2161.2	2201.3	2232.9
17.5°	2330.0	2257.2	2226.6	2221.3	2231.9	2235.1	2219.2	2211.8	2230.8	2308.9	2368.0
20°	2421.8	2333.2	2266.7	2254.1	2257.2	2258.3	2245.6	2240.3	2267.8	2362.7	2412.3
22.5°	2412.3	2346.9	2265.7	2249.8	2255.1	2253.0	2241.4	2239.3	2261.4	2343.8	2367.0
25°	2346.9	2296.3	2227.7	2217.1	2225.6	2224.5	2212.9	2207.6	2217.1	2272.0	2274.1
27.5°	2272.0	2227.7	2168.6	2165.4	2179.1	2186.5	2166.5	2150.6	2147.5	2184.4	2176.0
30°	2182.3	2149.6	2102.1	2104.2	2129.5	2133.8	2109.5	2086.3	2079.9	2100.0	2088.4
32.5°	2075.7	2065.2	2039.8	2045.1	2069.4	2077.8	2052.5	2028.2	2020.8	2027.2	2002.9
35°	1985.0	1980.7	1982.8	1992.3	2013.5	2019.8	1998.7	1979.7	1969.1	1947.0	1915.3
37.5°	1891.0	1902.6	1933.3	1951.2	1962.8	1960.7	1949.1	1935.4	1918.5	1877.3	1838.3
40°	1803.5	1833.0	1887.9	1907.9	1912.1	1913.2	1904.8	1893.2	1872.0	1817.2	1772.9
42.5°	1735.9	1768.6	1841.4	1872.0	1874.2	1876.3	1867.8	1858.3	1828.8	1756.0	1712.7
45°	1665.2	1708.5	1794.0	1830.9	1828.8	1827.7	1820.3	1816.1	1781.3	1696.9	1649.4
47.5°	1605.1	1655.7	1747.5	1779.2	1778.1	1777.1	1771.8	1771.8	1737.0	1645.2	1591.3
50°	1546.0	1604.0	1700.0	1726.4	1728.5	1726.4	1724.3	1727.5	1686.3	1588.2	1535.4
52.5°	1481.6	1547.0	1647.3	1671.5	1684.2	1689.5	1689.5	1682.1	1633.6	1531.2	1473.2
55°	1410.9	1473.2	1589.2	1621.9	1632.5	1642.0	1642.0	1627.2	1581.8	1478.4	1416.2
57.5°	1323.3	1378.2	1470.0	1502.7	1528.0	1534.4	1534.4	1510.1	1473.2	1374.0	1323.3
60°	1228.3	1275.8	1338.1	1372.9	1391.9	1379.2	1388.7	1382.4	1352.9	1261.0	1218.8
62.5°	1101.7	1150.2	1218.8	1254.7	1263.2	1250.5	1263.2	1262.1	1222.0	1139.7	1089.0
65°	1010.9	1058.4	1126.0	1172.4	1186.1	1183.0	1191.4	1178.7	1129.1	1051.0	1002.5
67.5°	903.3	954.0	1032.1	1083.8	1112.3	1115.4	1127.0	1100.6	1050.0	964.5	903.3
70°	800.9	844.2	904.4	952.9	993.0	1013.1	1015.2	977.2	913.9	843.2	798.8
72.5°	693.3	737.6	810.4	863.2	913.9	937.1	937.1	890.6	822.1	744.0	696.5
75°	562.5	603.6	670.1	727.1	785.1	814.7	813.6	773.5	697.5	623.7	574.1
77.5°	381.0	411.6	453.8	497.0	505.5	528.7	540.3	489.6	447.4	407.3	363.0
80°	221.6	240.6	263.8	288.1	293.4	300.8	281.8	262.8	240.6	214.2	194.2
82.5°	129.8	142.5	154.1	173.1	176.2	178.3	161.5	153.0	135.1	119.2	106.6
85°	63.3	67.5	78.1	87.6	83.4	81.3	73.9	65.4	58.0	51.7	45.4
87.5°	12.7	12.7	19.0	17.9	14.8	12.7	7.4	9.5	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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2167.5	2185.5	2207.6	2237.2	2270.9	2306.8	2341.6	2368.0	2394.4	2433.4	2427.1
5°	2056.7	2087.3	2122.1	2167.5	2222.4	2284.7	2354.3	2424.0	2498.9	2562.2	2589.6
7.5°	1992.3	2026.1	2067.3	2126.4	2197.1	2273.0	2371.2	2484.1	2605.5	2688.8	2740.5
10°	1992.3	2035.6	2089.4	2146.4	2208.7	2286.8	2408.1	2549.5	2705.7	2815.5	2875.6
12.5°	2107.4	2150.6	2162.2	2160.1	2195.0	2281.5	2437.7	2618.1	2804.9	2921.0	2994.9
15°	2286.8	2301.5	2214.0	2133.8	2139.0	2243.5	2451.4	2673.0	2890.4	3029.7	3109.9
17.5°	2407.1	2368.0	2211.8	2071.5	2041.9	2179.1	2451.4	2725.8	2981.1	3138.4	3213.3
20°	2416.6	2319.5	2158.0	2011.3	1935.4	2093.7	2434.5	2765.9	3068.7	3242.8	3323.0
22.5°	2333.2	2237.2	2101.0	1959.6	1847.8	1990.2	2407.1	2796.5	3143.6	3341.0	3440.2
25°	2238.2	2158.0	2043.0	1906.9	1787.6	1885.8	2381.7	2848.2	3248.1	3473.9	3574.2
27.5°	2145.4	2077.8	1973.4	1862.5	1753.9	1795.0	2365.9	2924.1	3372.6	3662.8	3749.4
30°	2054.6	1993.4	1898.4	1820.3	1735.9	1735.9	2352.2	3011.7	3537.3	3874.9	3961.5
32.5°	1962.8	1904.8	1827.7	1779.2	1725.4	1712.7	2314.2	3094.0	3707.2	4107.1	4195.7
35°	1877.3	1819.3	1760.2	1740.1	1720.1	1694.8	2220.3	3158.4	3872.8	4378.3	4454.3
37.5°	1797.1	1741.2	1696.9	1691.6	1693.7	1646.2	2072.5	3212.2	4079.7	4655.8	4695.9
40°	1727.5	1665.2	1630.4	1629.3	1639.9	1568.1	1885.8	3289.3	4316.0	4891.2	4874.3
42.5°	1665.2	1599.8	1557.6	1567.1	1560.7	1490.0	1703.2	3360.0	4521.8	5111.7	5078.0
45°	1604.0	1540.7	1481.6	1495.3	1487.9	1441.5	1548.1	3411.7	4749.8	5376.6	5380.8
47.5°	1544.9	1482.7	1423.6	1406.7	1405.6	1426.7	1428.8	3428.6	5121.2	5802.9	5706.9
50°	1490.0	1427.8	1366.6	1309.6	1331.7	1397.2	1340.2	3415.9	5677.3	6273.6	6005.5
52.5°	1433.1	1374.0	1306.4	1204.1	1262.1	1326.5	1261.0	3370.5	6017.1	6689.3	6528.9
55°	1367.6	1311.7	1219.9	1095.4	1166.1	1179.8	1179.8	2931.5	6161.7	7100.9	7200.1
57.5°	1280.0	1206.2	1060.5	960.3	1023.6	970.8	1093.3	2051.4	5923.2	6971.1	7356.3
60°	1180.8	1101.7	947.6	875.9	894.9	802.0	931.8	1286.4	4909.1	5931.7	6598.6
62.5°	1050.0	977.2	849.5	793.6	754.5	654.3	750.3	813.6	3365.3	4404.7	4859.5
65°	962.4	882.2	768.2	694.4	614.2	526.6	498.1	534.0	1809.8	2465.1	2772.2
67.5°	859.0	779.8	672.2	579.3	515.0	451.7	402.1	389.4	620.5	821.0	888.5
70°	760.8	684.9	595.2	508.6	444.3	382.0	333.5	298.6	287.0	284.9	280.7
72.5°	660.6	589.9	515.0	434.8	364.1	307.1	263.8	223.7	206.8	201.6	196.3
75°	541.4	485.4	410.5	324.0	267.0	214.2	180.5	154.1	139.3	134.0	127.7
77.5°	348.2	322.9	257.5	208.9	161.5	127.7	109.7	92.9	83.4	81.3	76.0
80°	185.7	173.1	142.5	120.3	96.0	78.1	68.6	59.1	53.8	51.7	49.6
82.5°	103.4	93.9	79.1	69.6	55.9	47.5	42.2	38.0	34.8	33.8	32.7
85°	46.4	40.1	31.7	29.5	26.4	24.3	23.2	21.1	20.1	19.0	17.9
87.5°	2.1	4.2	5.3	4.2	4.2	6.3	7.4	7.4	6.3	6.3	5.3
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: P633420

CATALOG NUMBER: GWS-SA2E-760-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2466.2	2497.8	2501.0	2511.5	2497.8	2494.7	2472.5	2459.8	2448.2	2445.1
5°	2658.2	2721.5	2746.9	2764.8	2747.9	2739.5	2690.9	2640.3	2611.8	2598.1
7.5°	2855.6	2950.5	3000.1	3022.3	3024.4	2986.4	2903.0	2808.1	2760.6	2742.6
10°	3031.8	3148.9	3214.3	3256.6	3241.8	3195.4	3081.4	2952.6	2892.5	2876.7
12.5°	3162.6	3274.5	3325.2	3352.6	3351.5	3326.2	3218.6	3079.3	3010.7	2994.9
15°	3247.1	3313.5	3316.7	3323.0	3341.0	3374.7	3318.8	3190.1	3114.1	3091.9
17.5°	3313.5	3287.2	3237.6	3220.7	3260.8	3354.7	3388.5	3284.0	3201.7	3182.7
20°	3355.8	3222.8	3135.2	3102.5	3148.9	3301.9	3430.7	3368.4	3282.9	3258.7
22.5°	3388.5	3162.6	3021.2	2999.1	3047.6	3244.9	3473.9	3468.7	3374.7	3341.0
25°	3440.2	3122.5	2941.0	2925.2	2970.6	3217.5	3532.0	3604.8	3521.4	3472.9
27.5°	3521.4	3118.3	2899.9	2894.6	2956.9	3241.8	3615.3	3804.2	3699.8	3663.9
30°	3634.3	3158.4	2909.4	2919.9	2995.9	3329.4	3745.1	4032.2	3927.7	3871.8
32.5°	3796.9	3266.1	3053.9	3099.3	3155.3	3469.7	3935.1	4279.1	4200.0	4117.7
35°	4011.1	3561.5	3481.3	3674.4	3621.7	3776.8	4164.1	4578.8	4482.8	4411.0
37.5°	4297.1	4167.3	4241.1	4507.1	4379.4	4357.2	4443.7	4851.1	4798.3	4726.5
40°	4698.1	4724.4	4860.6	5209.9	5025.2	4882.7	4786.7	5055.8	5073.7	4985.1
42.5°	4964.0	5085.3	5413.5	5810.3	5556.0	5215.1	5073.7	5317.5	5318.6	5238.4
45°	5063.2	5380.8	6066.7	6523.7	6098.4	5405.1	5232.0	5673.1	5662.6	5570.8
47.5°	5027.3	5629.9	6745.3	7443.9	6794.9	5540.2	5209.9	6179.7	6265.1	6125.8
50°	4952.4	5880.0	7537.8	8570.9	7649.6	5683.7	5176.1	6741.1	6882.5	6774.8
52.5°	5028.4	6158.5	8474.9	9735.9	8721.8	5912.7	5404.0	7461.8	7436.5	7306.7
55°	5269.0	6487.8	9613.5	11199.6	9899.5	6300.0	5989.7	8148.8	7891.3	7736.2
57.5°	5257.3	6723.1	10611.8	12357.2	10924.1	6617.6	6193.4	8221.6	7701.3	7505.1
60°	4771.9	6615.5	10991.7	13089.5	11233.3	6442.4	5523.3	7343.6	6498.3	6292.6
62.5°	3561.5	5870.5	10255.1	12172.5	10358.5	5564.4	4153.5	5271.1	4669.6	4322.4
65°	2278.3	4592.5	8621.5	9861.5	8538.2	4255.9	2473.5	2826.0	2214.0	2114.8
67.5°	969.8	3241.8	6702.0	6591.2	6387.5	2757.4	955.0	795.7	593.1	582.5
70°	320.8	2205.5	4131.4	4396.2	3814.8	1899.5	315.5	267.0	265.9	256.4
72.5°	210.0	1184.0	2325.8	2589.6	2454.6	1093.3	191.0	178.3	182.6	178.3
75°	125.6	257.5	391.5	508.6	391.5	183.6	115.0	112.9	115.0	109.7
77.5°	73.9	71.8	69.6	69.6	68.6	63.3	58.0	55.9	57.0	58.0
80°	47.5	45.4	43.3	42.2	36.9	34.8	32.7	30.6	30.6	31.7
82.5°	30.6	28.5	26.4	23.2	19.0	15.8	14.8	12.7	12.7	13.7
85°	15.8	12.7	9.5	7.4	4.2	2.1	0.0	0.0	0.0	0.0
87.5°	3.2	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)