

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: P633255

Luminaire Tested: GWS-SA2E-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633255
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11201.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

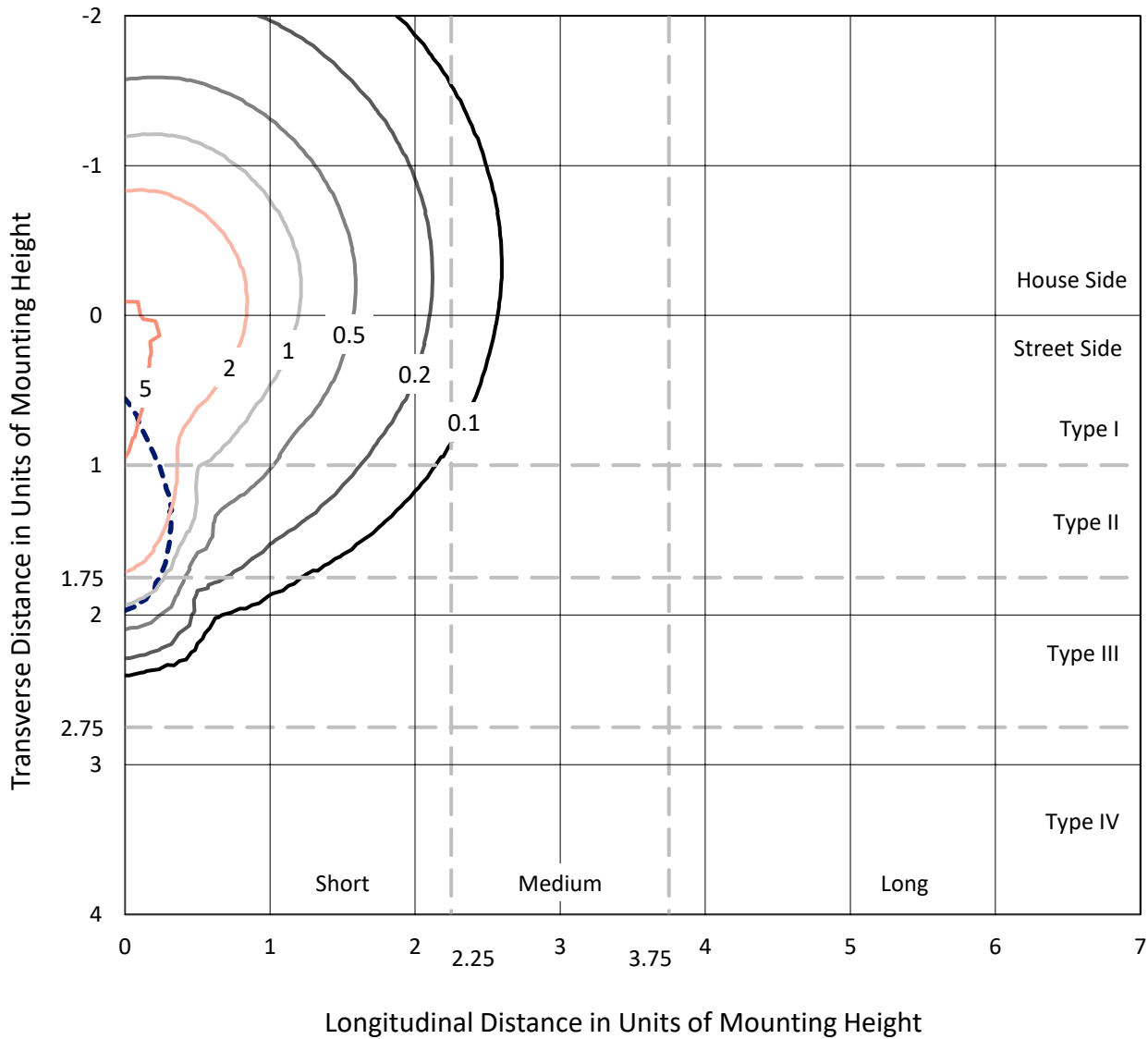
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633255
 CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

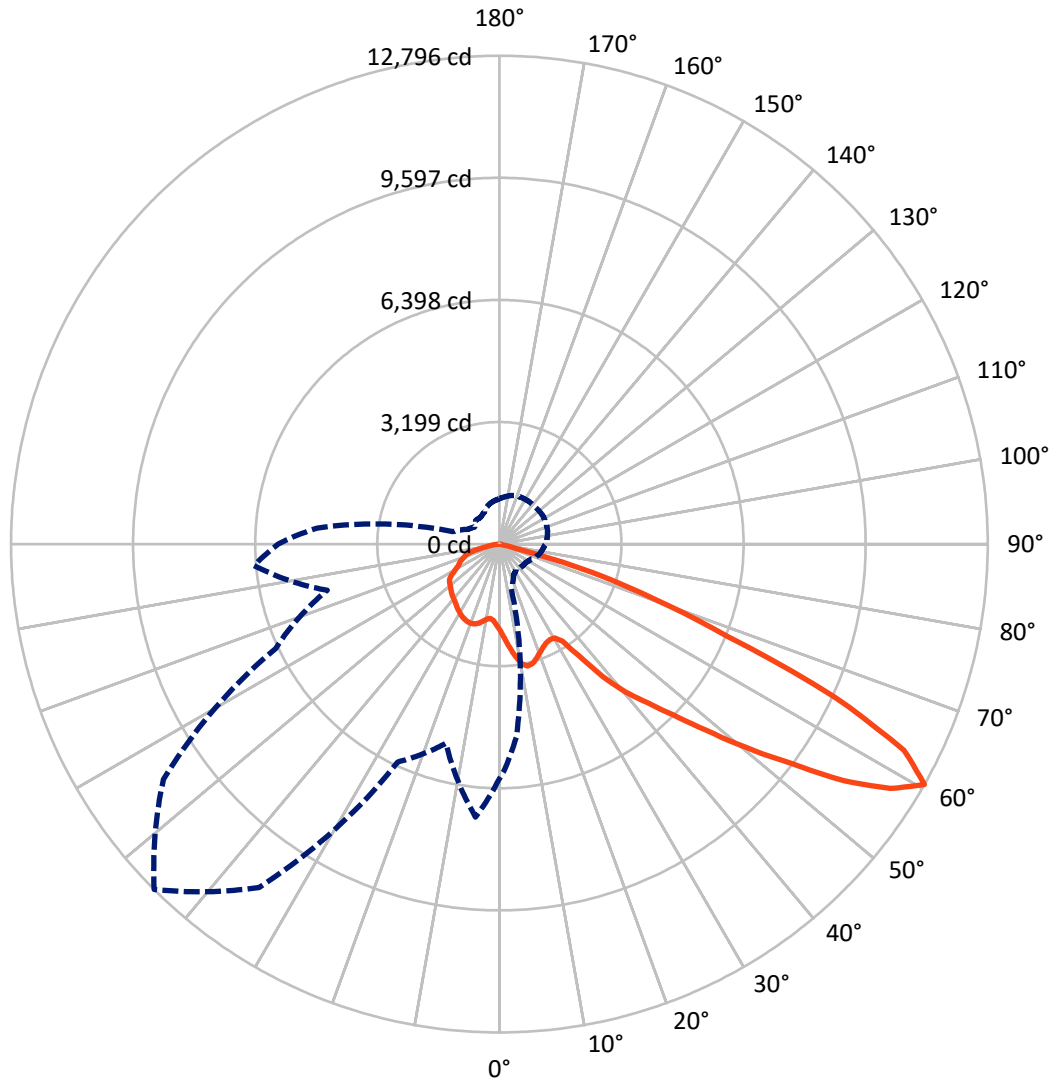
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P633255
CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633255
 CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3832.0	0.0	3832.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7369.7	0.0	7369.7
	% Fixture	65.8	0.0	65.8
Total	Lumens	11201.7	0.0	11201.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.7	2.0
10°-20°	708.0	6.3
20°-30°	1153.0	10.3
30°-40°	1619.8	14.5
40°-50°	2216.5	19.8
50°-60°	2843.6	25.4
60°-70°	1914.8	17.1
70°-80°	478.7	4.3
80°-90°	46.7	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°	11201.7	100.0
0°-180°	11201.7	100.0

Coefficient of Utilization



REPORT NUMBER: P633255

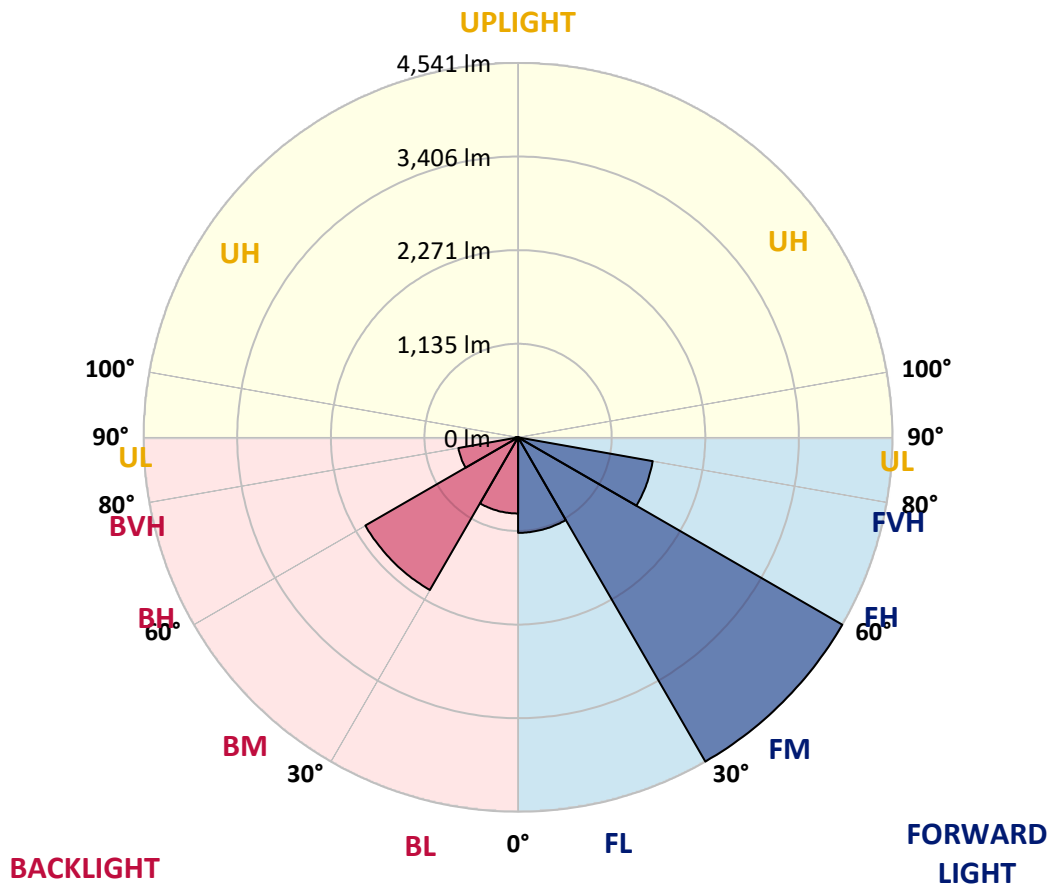
CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.0	10.3			
FM (30°-60°)	4541.3	40.5			
FH (60°-80°)	1658.3	14.8			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	923.7	8.2	B2/1000		
BM (30°-60°)	2138.6	19.1	B2/2500		
BH (60°-80°)	735.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	34.5	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





REPORT NUMBER: P633255

CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3
2.5°	2390.3	2385.1	2380.0	2339.7	2329.4	2300.5	2279.9	2254.1	2217.0	2196.3	2178.8
5°	2539.9	2531.6	2503.8	2421.2	2367.6	2308.8	2260.3	2206.7	2149.9	2112.8	2083.9
7.5°	2681.2	2679.1	2631.7	2495.5	2408.8	2324.3	2258.2	2179.8	2098.3	2042.6	2005.5
10°	2812.2	2796.7	2740.0	2562.6	2449.1	2352.1	2280.9	2194.3	2099.4	2024.1	1974.5
12.5°	2927.8	2908.2	2829.8	2624.5	2484.2	2364.5	2287.1	2215.9	2153.0	2090.1	2033.3
15°	3022.7	2998.9	2919.5	2682.2	2515.1	2357.3	2248.9	2193.2	2214.9	2242.8	2179.8
17.5°	3111.4	3086.6	2989.7	2724.5	2524.4	2312.9	2155.1	2131.3	2240.7	2367.6	2338.7
20°	3185.7	3157.8	3045.4	2745.2	2507.9	2228.3	2033.3	2074.6	2219.0	2370.7	2417.1
22.5°	3266.1	3243.4	3108.3	2775.1	2487.3	2111.7	1931.2	2032.3	2181.9	2315.0	2385.1
25°	3395.1	3367.2	3206.3	2827.7	2476.9	2002.4	1858.0	1991.0	2130.3	2251.0	2305.7
27.5°	3581.8	3530.2	3340.4	2919.5	2488.3	1899.2	1811.5	1940.5	2070.5	2173.6	2218.0
30°	3785.0	3723.1	3489.0	3014.4	2504.8	1836.3	1786.8	1882.7	1978.7	2081.8	2130.3
32.5°	4025.4	3970.7	3647.8	3085.6	2469.7	1807.4	1768.2	1819.8	1896.1	1978.7	2018.9
35°	4312.2	4214.2	3821.1	3143.4	2356.2	1765.1	1751.7	1750.7	1790.9	1871.4	1916.8
37.5°	4620.7	4515.4	4034.7	3205.3	2179.8	1698.1	1712.5	1669.2	1706.3	1770.3	1821.9
40°	4873.4	4763.0	4250.3	3289.9	1959.1	1592.8	1625.8	1579.4	1602.1	1668.1	1725.9
42.5°	5121.0	5003.4	4451.5	3385.8	1745.5	1489.7	1506.2	1488.6	1495.9	1565.0	1645.4
45°	5446.0	5313.9	4699.1	3453.9	1553.6	1408.2	1392.7	1362.8	1400.9	1490.7	1576.3
47.5°	5988.6	5830.8	5104.5	3498.2	1414.4	1361.7	1290.6	1273.0	1320.5	1420.6	1509.3
50°	6623.0	6486.9	5752.4	3496.2	1310.2	1322.5	1191.5	1176.1	1254.5	1355.6	1449.4
52.5°	7143.0	7004.7	6306.3	3393.0	1224.5	1239.0	1133.8	1090.4	1197.7	1291.6	1385.5
55°	7562.9	7407.1	6561.1	2961.8	1116.2	1105.9	1070.8	991.4	1126.5	1227.6	1315.3
57.5°	7336.9	7151.2	6252.7	2252.0	1004.8	939.8	962.5	903.7	1029.6	1156.5	1241.0
60°	6151.6	5984.5	5079.7	1198.8	884.1	785.1	832.5	841.8	923.3	1070.8	1157.5
62.5°	4225.5	4103.8	3442.5	727.3	697.4	630.3	704.6	771.7	832.5	957.4	1032.7
65°	2067.4	2031.3	1721.8	466.3	488.0	509.6	583.9	665.4	755.2	864.5	943.9
67.5°	569.5	573.6	522.0	364.2	384.8	444.6	503.4	568.4	658.2	759.3	839.7
70°	250.7	254.8	263.1	280.6	319.8	374.5	435.3	502.4	584.9	669.5	746.9
72.5°	174.3	178.5	190.9	213.5	248.6	300.2	358.0	421.9	507.6	578.7	642.7
75°	107.3	110.4	121.7	141.3	165.1	204.3	261.0	319.8	395.1	460.1	516.8
77.5°	56.7	54.7	61.9	75.3	95.9	116.6	154.7	191.9	245.5	298.1	345.6
80°	30.9	29.9	34.0	41.3	47.5	64.0	89.8	114.5	145.5	175.4	201.2
82.5°	13.4	12.4	13.4	17.5	21.7	30.9	45.4	62.9	80.5	101.1	117.6
85°	0.0	0.0	0.0	1.0	5.2	8.3	15.5	22.7	33.0	45.4	55.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	9.3
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: P633255

CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3
2.5°	2168.5	2142.7	2140.6	2120.0	2122.1	2123.1	2102.5	2094.2	2101.4	2109.7	2105.6
5°	2073.6	2046.7	2035.4	2015.8	2013.7	2004.5	1996.2	1985.9	1993.1	2000.3	2004.5
7.5°	1991.0	1973.5	1966.3	1961.1	1963.2	1959.1	1942.6	1933.3	1932.2	1935.3	1939.5
10°	1964.2	1949.8	1959.1	1973.5	1983.8	1991.0	1973.5	1958.0	1943.6	1937.4	1937.4
12.5°	2022.0	2003.4	2022.0	2037.5	2058.1	2063.3	2043.7	2027.1	2022.0	2028.2	2040.6
15°	2149.9	2106.6	2105.6	2114.8	2131.3	2139.6	2121.0	2112.8	2112.8	2152.0	2182.9
17.5°	2277.8	2206.7	2176.7	2171.6	2181.9	2185.0	2169.5	2162.3	2180.9	2257.2	2315.0
20°	2367.6	2280.9	2215.9	2203.6	2206.7	2207.7	2195.3	2190.1	2217.0	2309.8	2358.3
22.5°	2358.3	2294.3	2214.9	2199.4	2204.6	2202.5	2191.2	2189.1	2210.8	2291.2	2313.9
25°	2294.3	2244.8	2177.8	2167.4	2175.7	2174.7	2163.3	2158.2	2167.4	2221.1	2223.2
27.5°	2221.1	2177.8	2120.0	2116.9	2130.3	2137.5	2117.9	2102.5	2099.4	2135.5	2127.2
30°	2133.4	2101.4	2055.0	2057.1	2081.8	2086.0	2062.2	2039.5	2033.3	2052.9	2041.6
32.5°	2029.2	2018.9	1994.1	1999.3	2023.0	2031.3	2006.5	1982.8	1975.6	1981.8	1958.0
35°	1940.5	1936.4	1938.4	1947.7	1968.3	1974.5	1953.9	1935.3	1925.0	1903.4	1872.4
37.5°	1848.7	1860.0	1889.9	1907.5	1918.8	1916.8	1905.4	1892.0	1875.5	1835.3	1797.1
40°	1763.1	1791.9	1845.6	1865.2	1869.3	1870.3	1862.1	1850.7	1830.1	1776.5	1733.1
42.5°	1697.0	1729.0	1800.2	1830.1	1832.2	1834.2	1826.0	1816.7	1787.8	1716.6	1674.3
45°	1627.9	1670.2	1753.8	1789.9	1787.8	1786.8	1779.6	1775.4	1741.4	1658.9	1612.4
47.5°	1569.1	1618.6	1708.4	1739.3	1738.3	1737.3	1732.1	1732.1	1698.1	1608.3	1555.7
50°	1511.3	1568.1	1662.0	1687.7	1689.8	1687.7	1685.7	1688.8	1648.5	1552.6	1501.0
52.5°	1448.4	1512.4	1610.4	1634.1	1646.5	1651.6	1651.6	1644.4	1597.0	1496.9	1440.2
55°	1379.3	1440.2	1553.6	1585.6	1595.9	1605.2	1605.2	1590.8	1546.4	1445.3	1384.4
57.5°	1293.7	1347.3	1437.1	1469.0	1493.8	1500.0	1500.0	1476.3	1440.2	1343.2	1293.7
60°	1200.8	1247.2	1308.1	1342.1	1360.7	1348.3	1357.6	1351.4	1322.5	1232.8	1191.5
62.5°	1077.0	1124.5	1191.5	1226.6	1234.9	1222.5	1234.9	1233.8	1194.6	1114.2	1064.6
65°	988.3	1034.7	1100.7	1146.1	1159.5	1156.5	1164.7	1152.3	1103.8	1027.5	980.0
67.5°	883.1	932.6	1008.9	1059.5	1087.3	1090.4	1101.8	1076.0	1026.5	942.9	883.1
70°	783.0	825.3	884.1	931.6	970.8	990.4	992.4	955.3	893.4	824.3	780.9
72.5°	677.8	721.1	792.3	843.9	893.4	916.1	916.1	870.7	803.6	727.3	680.9
75°	549.9	590.1	655.1	710.8	767.5	796.4	795.4	756.2	681.9	609.7	561.2
77.5°	372.4	402.3	443.6	485.9	494.1	516.8	528.2	478.7	437.4	398.2	354.9
80°	216.6	235.2	257.9	281.6	286.8	294.0	275.4	256.9	235.2	209.4	189.8
82.5°	126.9	139.3	150.6	169.2	172.3	174.3	157.8	149.6	132.0	116.6	104.2
85°	61.9	66.0	76.3	85.6	81.5	79.4	72.2	64.0	56.7	50.5	44.4
87.5°	12.4	12.4	18.6	17.5	14.4	12.4	7.2	9.3	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



REPORT NUMBER: P633255

CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3
2.5°	2119.0	2136.5	2158.2	2187.0	2220.1	2255.1	2289.2	2315.0	2340.8	2378.9	2372.7
5°	2010.6	2040.6	2074.6	2119.0	2172.6	2233.5	2301.6	2369.6	2442.9	2504.8	2531.6
7.5°	1947.7	1980.7	2021.0	2078.7	2147.8	2222.1	2318.1	2428.5	2547.1	2628.6	2679.1
10°	1947.7	1990.0	2042.6	2098.3	2159.2	2235.5	2354.2	2492.4	2645.1	2752.4	2811.2
12.5°	2060.2	2102.5	2113.8	2111.7	2145.8	2230.4	2383.1	2559.5	2742.1	2855.5	2927.8
15°	2235.5	2250.0	2164.4	2086.0	2091.1	2193.2	2396.5	2613.1	2825.6	2961.8	3040.2
17.5°	2353.1	2315.0	2162.3	2025.1	1996.2	2130.3	2396.5	2664.7	2914.3	3068.1	3141.3
20°	2362.4	2267.5	2109.7	1966.3	1892.0	2046.7	2380.0	2703.9	3000.0	3170.2	3248.6
22.5°	2280.9	2187.0	2054.0	1915.7	1806.4	1945.6	2353.1	2733.8	3073.2	3266.1	3363.1
25°	2188.1	2109.7	1997.2	1864.2	1747.6	1843.5	2328.4	2784.4	3175.3	3396.1	3494.1
27.5°	2097.3	2031.3	1929.1	1820.8	1714.6	1754.8	2312.9	2858.6	3297.1	3580.8	3665.4
30°	2008.6	1948.7	1855.9	1779.6	1697.0	1697.0	2299.5	2944.3	3458.0	3788.1	3872.7
32.5°	1918.8	1862.1	1786.8	1739.3	1686.7	1674.3	2262.4	3024.7	3624.1	4015.1	4101.8
35°	1835.3	1778.5	1720.8	1701.2	1681.6	1656.8	2170.5	3087.7	3786.1	4280.2	4354.5
37.5°	1756.9	1702.2	1658.9	1653.7	1655.8	1609.3	2026.1	3140.3	3988.3	4551.5	4590.7
40°	1688.8	1627.9	1593.9	1592.8	1603.1	1533.0	1843.5	3215.6	4219.4	4781.6	4765.1
42.5°	1627.9	1563.9	1522.7	1532.0	1525.8	1456.7	1665.0	3284.7	4420.5	4997.2	4964.2
45°	1568.1	1506.2	1448.4	1461.8	1454.6	1409.2	1513.4	3335.3	4643.4	5256.1	5260.3
47.5°	1510.3	1449.4	1391.7	1375.2	1374.1	1394.8	1396.8	3351.8	5006.5	5672.9	5579.0
50°	1456.7	1395.8	1336.0	1280.2	1301.9	1365.9	1310.2	3339.4	5550.2	6133.0	5871.0
52.5°	1400.9	1343.2	1277.2	1177.1	1233.8	1296.8	1232.8	3295.0	5882.3	6539.5	6382.7
55°	1337.0	1282.3	1192.6	1070.8	1139.9	1153.4	1153.4	2865.9	6023.7	6941.8	7038.8
57.5°	1251.4	1179.2	1036.8	938.8	1000.7	949.1	1068.8	2005.5	5790.5	6814.9	7191.5
60°	1154.4	1077.0	926.4	856.3	874.8	784.0	910.9	1257.6	4799.1	5798.8	6450.8
62.5°	1026.5	955.3	830.5	775.8	737.6	639.6	733.5	795.4	3289.9	4306.0	4750.6
65°	940.8	862.4	751.0	678.8	600.4	514.8	486.9	522.0	1769.2	2409.9	2710.1
67.5°	839.7	762.4	657.1	566.4	503.4	441.5	393.1	380.7	606.6	802.6	868.6
70°	743.8	669.5	581.8	497.2	434.3	373.4	326.0	292.0	280.6	278.5	274.4
72.5°	645.8	576.7	503.4	425.0	355.9	300.2	257.9	218.7	202.2	197.0	191.9
75°	529.2	474.5	401.3	316.7	261.0	209.4	176.4	150.6	136.2	131.0	124.8
77.5°	340.4	315.7	251.7	204.3	157.8	124.8	107.3	90.8	81.5	79.4	74.3
80°	181.6	169.2	139.3	117.6	93.9	76.3	67.1	57.8	52.6	50.5	48.5
82.5°	101.1	91.8	77.4	68.1	54.7	46.4	41.3	37.1	34.0	33.0	32.0
85°	45.4	39.2	30.9	28.9	25.8	23.7	22.7	20.6	19.6	18.6	17.5
87.5°	2.1	4.1	5.2	4.1	4.1	6.2	7.2	7.2	6.2	6.2	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: P633255

CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3	2259.3
2.5°	2410.9	2441.9	2445.0	2455.3	2441.9	2438.8	2417.1	2404.7	2393.4	2390.3
5°	2598.7	2660.6	2685.3	2702.9	2686.4	2678.1	2630.6	2581.1	2553.3	2539.9
7.5°	2791.6	2884.4	2932.9	2954.6	2956.6	2919.5	2838.0	2745.2	2698.7	2681.2
10°	2963.9	3078.4	3142.3	3183.6	3169.2	3123.8	3012.4	2886.5	2827.7	2812.2
12.5°	3091.8	3201.1	3250.7	3277.5	3276.4	3251.7	3146.5	3010.3	2943.2	2927.8
15°	3174.3	3239.3	3242.4	3248.6	3266.1	3299.1	3244.5	3118.6	3044.3	3022.7
17.5°	3239.3	3213.5	3165.0	3148.5	3187.7	3279.5	3312.6	3210.4	3130.0	3111.4
20°	3280.6	3150.6	3065.0	3033.0	3078.4	3228.0	3353.8	3293.0	3209.4	3185.7
22.5°	3312.6	3091.8	2953.5	2931.9	2979.3	3172.3	3396.1	3391.0	3299.1	3266.1
25°	3363.1	3052.6	2875.1	2859.7	2904.0	3145.4	3452.9	3524.0	3442.5	3395.1
27.5°	3442.5	3048.5	2834.9	2829.8	2890.6	3169.2	3534.4	3719.0	3616.9	3581.8
30°	3552.9	3087.7	2844.2	2854.5	2928.8	3254.8	3661.2	3941.8	3839.7	3785.0
32.5°	3711.8	3192.9	2985.5	3029.9	3084.6	3392.0	3846.9	4183.2	4105.9	4025.4
35°	3921.2	3481.7	3403.3	3592.1	3540.5	3692.2	4070.8	4476.2	4382.4	4312.2
37.5°	4200.8	4073.9	4146.1	4406.1	4281.3	4259.6	4344.2	4742.4	4690.8	4620.7
40°	4592.8	4618.6	4751.7	5093.1	4912.6	4773.3	4679.5	4942.5	4960.1	4873.4
42.5°	4852.8	4971.4	5292.2	5680.1	5431.5	5098.3	4960.1	5198.4	5199.4	5121.0
45°	4949.7	5260.3	5930.8	6377.5	5961.8	5284.0	5114.8	5546.0	5535.7	5446.0
47.5°	4914.7	5503.7	6594.2	7277.1	6642.6	5416.0	5093.1	6041.2	6124.8	5988.6
50°	4841.4	5748.2	7368.9	8378.9	7478.3	5556.3	5060.1	6590.0	6728.3	6623.0
52.5°	4915.7	6020.6	8285.0	9517.8	8526.4	5780.2	5283.0	7294.6	7269.9	7143.0
55°	5150.9	6342.4	9398.1	10948.7	9677.7	6158.8	5855.5	7966.2	7714.5	7562.9
57.5°	5139.6	6572.5	10374.0	12080.4	10679.4	6469.3	6054.6	8037.4	7528.8	7336.9
60°	4665.0	6467.3	10745.4	12796.3	10981.7	6298.1	5399.5	7179.1	6352.8	6151.6
62.5°	3481.7	5738.9	10025.4	11899.8	10126.5	5439.8	4060.5	5153.0	4565.0	4225.5
65°	2227.3	4489.6	8428.4	9640.6	8346.9	4160.6	2418.1	2762.7	2164.4	2067.4
67.5°	948.1	3169.2	6551.9	6443.5	6244.4	2695.6	933.6	777.8	579.8	569.5
70°	313.6	2156.1	4038.8	4297.8	3729.3	1856.9	308.5	261.0	260.0	250.7
72.5°	205.3	1157.5	2273.7	2531.6	2399.6	1068.8	186.7	174.3	178.5	174.3
75°	122.8	251.7	382.7	497.2	382.7	179.5	112.4	110.4	112.4	107.3
77.5°	72.2	70.2	68.1	68.1	67.1	61.9	56.7	54.7	55.7	56.7
80°	46.4	44.4	42.3	41.3	36.1	34.0	32.0	29.9	29.9	30.9
82.5°	29.9	27.9	25.8	22.7	18.6	15.5	14.4	12.4	12.4	13.4
85°	15.5	12.4	9.3	7.2	4.1	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)