

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: P636720

Luminaire Tested: GWS-SA4B-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636720
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11112.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

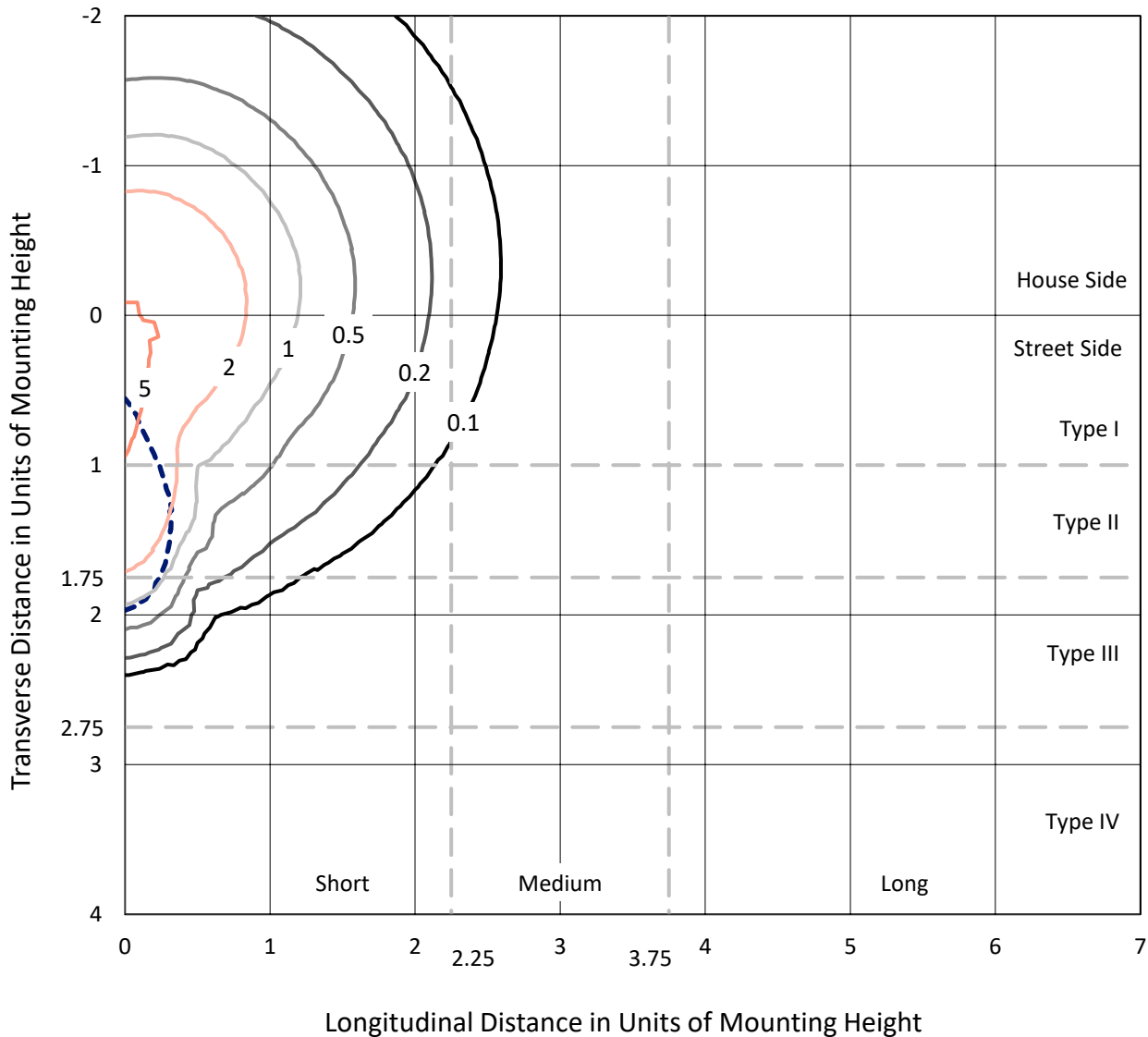
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636720
 CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

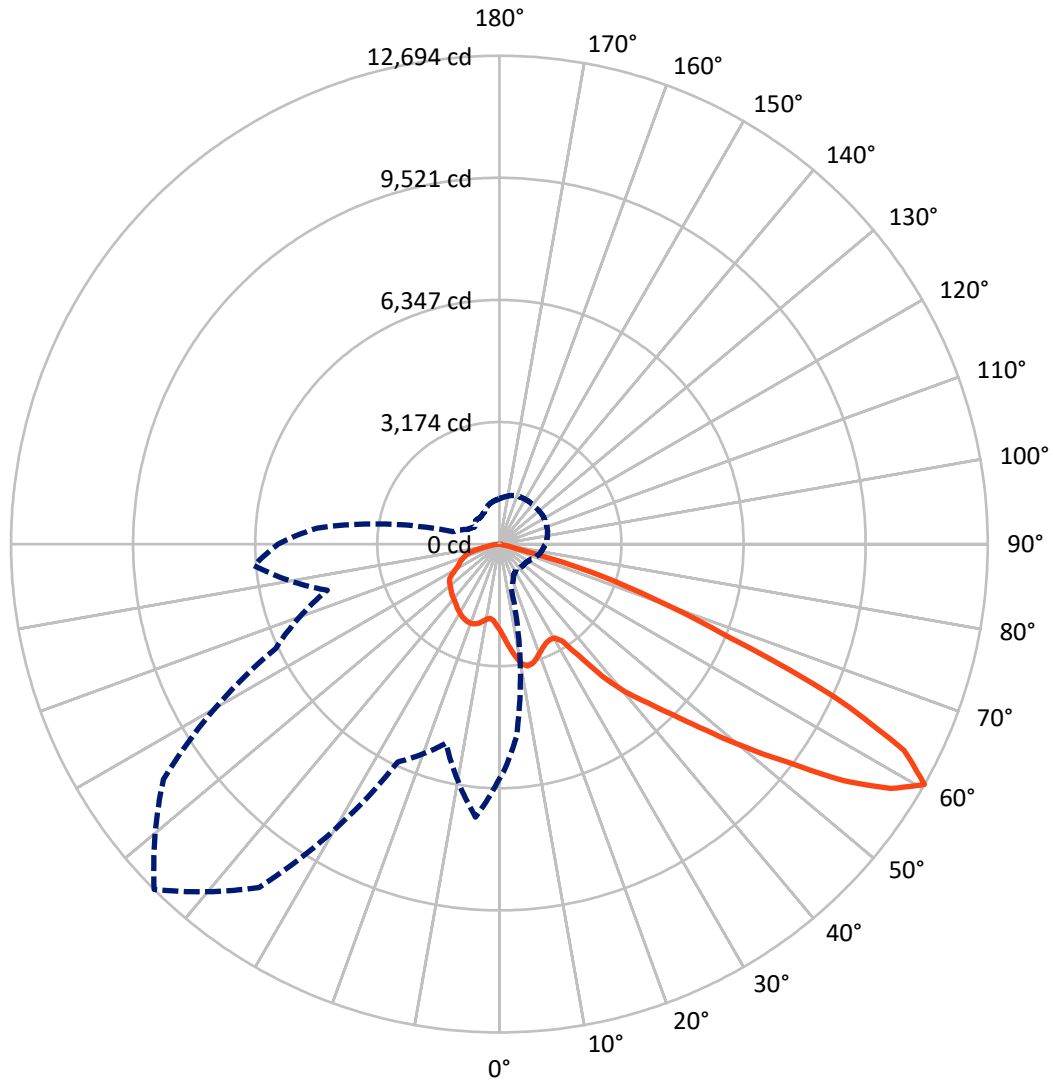
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P636720
CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636720

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3801.3	0.0	3801.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7310.8	0.0	7310.8
	% Fixture	65.8	0.0	65.8
Total	Lumens	11112.1	0.0	11112.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.0	2.0
10°-20°	702.3	6.3
20°-30°	1143.8	10.3
30°-40°	1606.8	14.5
40°-50°	2198.7	19.8
50°-60°	2820.9	25.4
60°-70°	1899.5	17.1
70°-80°	474.9	4.3
80°-90°	46.3	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°	11112.1	100.0
0°-180°	11112.1	100.0

Coefficient of Utilization



REPORT NUMBER: P636720

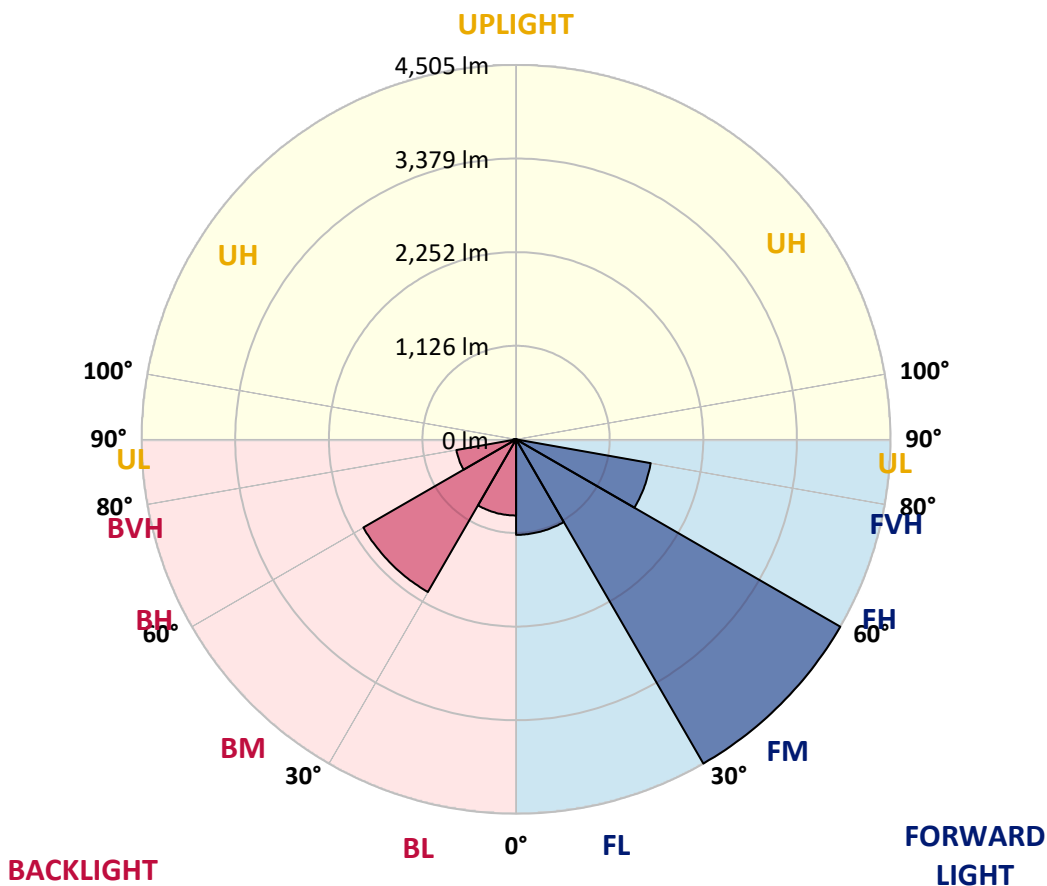
CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.7	10.3			
FM (30°-60°)	4504.9	40.5			
FH (60°-80°)	1645.1	14.8			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	916.4	8.2	B2/1000		
BM (30°-60°)	2121.5	19.1	B2/2500		
BH (60°-80°)	729.3	6.6	B2/1000		G2/1000
BVH (80°-90°)	34.3	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





REPORT NUMBER: P636720

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2
2.5°	2371.2	2366.0	2360.9	2321.0	2310.8	2282.1	2261.7	2236.1	2199.2	2178.8	2161.4
5°	2519.6	2511.4	2483.7	2401.9	2348.6	2290.3	2242.2	2189.0	2132.7	2095.9	2067.2
7.5°	2659.8	2657.7	2610.6	2475.5	2389.6	2305.7	2240.2	2162.4	2081.5	2026.3	1989.4
10°	2789.7	2774.4	2718.1	2542.1	2429.5	2333.3	2262.7	2176.7	2082.6	2007.9	1958.7
12.5°	2904.3	2884.9	2807.1	2603.5	2464.3	2345.6	2268.8	2198.2	2135.8	2073.4	2017.1
15°	2998.5	2975.0	2896.2	2660.8	2495.0	2338.4	2231.0	2175.7	2197.2	2224.8	2162.4
17.5°	3086.5	3061.9	2965.7	2702.7	2504.2	2294.4	2137.8	2114.3	2222.8	2348.6	2320.0
20°	3160.2	3132.6	3021.0	2723.2	2487.8	2210.5	2017.1	2058.0	2201.3	2351.7	2397.8
22.5°	3240.0	3217.5	3083.4	2752.9	2467.4	2094.8	1915.8	2016.0	2164.4	2296.5	2366.0
25°	3367.9	3340.3	3180.7	2805.1	2457.1	1986.4	1843.1	1975.1	2113.3	2233.0	2287.2
27.5°	3553.2	3502.0	3313.7	2896.2	2468.4	1884.0	1797.0	1925.0	2053.9	2156.3	2200.3
30°	3754.8	3693.4	3461.1	2990.3	2484.8	1821.6	1772.5	1867.7	1962.8	2065.2	2113.3
32.5°	3993.2	3939.0	3618.7	3060.9	2450.0	1793.0	1754.1	1805.2	1881.0	1962.8	2002.7
35°	4277.7	4180.5	3790.6	3118.2	2337.4	1751.0	1737.7	1736.7	1776.6	1856.4	1901.4
37.5°	4583.7	4479.3	4002.4	3179.6	2162.4	1684.5	1698.8	1655.8	1692.7	1756.1	1807.3
40°	4834.4	4724.9	4216.3	3263.5	1943.4	1580.1	1612.8	1566.8	1589.3	1654.8	1712.1
42.5°	5080.0	4963.4	4415.9	3358.7	1731.6	1477.8	1494.1	1476.7	1483.9	1552.5	1632.3
45°	5402.4	5271.4	4661.5	3426.3	1541.2	1396.9	1381.6	1351.9	1389.7	1478.8	1563.7
47.5°	5940.7	5784.1	5063.7	3470.3	1403.0	1350.9	1280.2	1262.8	1309.9	1409.2	1497.2
50°	6570.1	6435.0	5706.3	3468.2	1299.7	1312.0	1182.0	1166.6	1244.4	1344.7	1437.8
52.5°	7085.9	6948.7	6255.9	3365.9	1214.7	1229.1	1124.7	1081.7	1188.1	1281.3	1374.4
55°	7502.4	7347.8	6508.7	2938.1	1107.3	1097.1	1062.3	983.5	1117.5	1217.8	1304.8
57.5°	7278.2	7094.0	6202.7	2234.0	996.8	932.3	954.8	896.5	1021.3	1147.2	1231.1
60°	6102.4	5936.6	5039.1	1189.2	877.0	778.8	825.9	835.1	915.9	1062.3	1148.2
62.5°	4191.7	4071.0	3415.0	721.5	691.8	625.3	699.0	765.5	825.9	949.7	1024.4
65°	2050.8	2015.0	1708.0	462.6	484.1	505.5	579.2	660.1	749.1	857.6	936.4
67.5°	564.9	569.0	517.8	361.3	381.7	441.1	499.4	563.9	652.9	753.2	833.0
70°	248.7	252.8	261.0	278.4	317.2	371.5	431.9	498.4	580.3	664.2	740.9
72.5°	173.0	177.0	189.3	211.8	246.6	297.8	355.1	418.6	503.5	574.1	637.6
75°	106.4	109.5	120.8	140.2	163.7	202.6	258.9	317.2	392.0	456.4	512.7
77.5°	56.3	54.2	61.4	74.7	95.2	115.6	153.5	190.3	243.6	295.8	342.8
80°	30.7	29.7	33.8	40.9	47.1	63.4	89.0	113.6	144.3	174.0	199.6
82.5°	13.3	12.3	13.3	17.4	21.5	30.7	45.0	62.4	79.8	100.3	116.7
85°	0.0	0.0	0.0	1.0	5.1	8.2	15.4	22.5	32.7	45.0	55.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	9.2
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: P636720

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2
2.5°	2151.1	2125.6	2123.5	2103.0	2105.1	2106.1	2085.6	2077.5	2084.6	2092.8	2088.7
5°	2057.0	2030.4	2019.1	1999.7	1997.6	1988.4	1980.2	1970.0	1977.2	1984.3	1988.4
7.5°	1975.1	1957.7	1950.6	1945.4	1947.5	1943.4	1927.0	1917.8	1916.8	1919.9	1923.9
10°	1948.5	1934.2	1943.4	1957.7	1968.0	1975.1	1957.7	1942.4	1928.0	1921.9	1921.9
12.5°	2005.8	1987.4	2005.8	2021.2	2041.6	2046.8	2027.3	2010.9	2005.8	2012.0	2024.2
15°	2132.7	2089.7	2088.7	2097.9	2114.3	2122.5	2104.1	2095.9	2095.9	2134.8	2165.5
17.5°	2259.6	2189.0	2159.3	2154.2	2164.4	2167.5	2152.2	2145.0	2163.4	2239.1	2296.5
20°	2348.6	2262.7	2198.2	2185.9	2189.0	2190.0	2177.7	2172.6	2199.2	2291.3	2339.4
22.5°	2339.4	2276.0	2197.2	2181.8	2187.0	2184.9	2173.6	2171.6	2193.1	2272.9	2295.4
25°	2276.0	2226.9	2160.3	2150.1	2158.3	2157.3	2146.0	2140.9	2150.1	2203.3	2205.4
27.5°	2203.3	2160.3	2103.0	2100.0	2113.3	2120.4	2101.0	2085.6	2082.6	2118.4	2110.2
30°	2116.3	2084.6	2038.6	2040.6	2065.2	2069.3	2045.7	2023.2	2017.1	2036.5	2025.3
32.5°	2013.0	2002.7	1978.2	1983.3	2006.8	2015.0	1990.5	1966.9	1959.8	1965.9	1942.4
35°	1925.0	1920.9	1922.9	1932.1	1952.6	1958.7	1938.3	1919.9	1909.6	1888.1	1857.4
37.5°	1833.9	1845.1	1874.8	1892.2	1903.5	1901.4	1890.2	1876.9	1860.5	1820.6	1782.7
40°	1748.9	1777.6	1830.8	1850.3	1854.4	1855.4	1847.2	1835.9	1815.5	1762.3	1719.3
42.5°	1683.5	1715.2	1785.8	1815.5	1817.5	1819.6	1811.4	1802.2	1773.5	1702.9	1660.9
45°	1614.9	1656.8	1739.7	1775.6	1773.5	1772.5	1765.3	1761.2	1727.5	1645.6	1599.5
47.5°	1556.6	1605.7	1694.7	1725.4	1724.4	1723.4	1718.2	1718.2	1684.5	1595.4	1543.3
50°	1499.2	1555.5	1648.7	1674.2	1676.3	1674.2	1672.2	1675.3	1635.4	1540.2	1489.0
52.5°	1436.8	1500.3	1597.5	1621.0	1633.3	1638.4	1638.4	1631.3	1584.2	1484.9	1428.6
55°	1368.3	1428.6	1541.2	1572.9	1583.2	1592.4	1592.4	1578.0	1534.0	1433.7	1373.4
57.5°	1283.3	1336.5	1425.6	1457.3	1481.8	1488.0	1488.0	1464.5	1428.6	1332.4	1283.3
60°	1191.2	1237.3	1297.6	1331.4	1349.8	1337.6	1346.8	1340.6	1312.0	1222.9	1182.0
62.5°	1068.4	1115.5	1182.0	1216.8	1225.0	1212.7	1225.0	1224.0	1185.1	1105.2	1056.1
65°	980.4	1026.4	1091.9	1137.0	1150.3	1147.2	1155.4	1143.1	1095.0	1019.3	972.2
67.5°	876.0	925.1	1000.9	1051.0	1078.6	1081.7	1093.0	1067.4	1018.3	935.4	876.0
70°	776.7	818.7	877.0	924.1	963.0	982.4	984.5	947.6	886.2	817.7	774.7
72.5°	672.4	715.3	786.0	837.1	886.2	908.8	908.8	863.7	797.2	721.5	675.4
75°	545.5	585.4	649.8	705.1	761.4	790.0	789.0	750.1	676.5	604.8	556.7
77.5°	369.4	399.1	440.1	482.0	490.2	512.7	524.0	474.8	433.9	395.0	352.0
80°	214.9	233.3	255.8	279.4	284.5	291.7	273.2	254.8	233.3	207.7	188.3
82.5°	125.9	138.2	149.4	167.8	170.9	173.0	156.6	148.4	131.0	115.6	103.4
85°	61.4	65.5	75.7	84.9	80.8	78.8	71.6	63.4	56.3	50.1	44.0
87.5°	12.3	12.3	18.4	17.4	14.3	12.3	7.2	9.2	2.0	2.0	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



REPORT NUMBER: P636720

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2
2.5°	2102.0	2119.4	2140.9	2169.6	2202.3	2237.1	2270.9	2296.5	2322.0	2359.9	2353.8
5°	1994.6	2024.2	2058.0	2102.0	2155.2	2215.6	2283.2	2350.7	2423.4	2484.8	2511.4
7.5°	1932.1	1964.9	2004.8	2062.1	2130.7	2204.4	2299.5	2409.0	2526.7	2607.6	2657.7
10°	1932.1	1974.1	2026.3	2081.5	2141.9	2217.7	2335.3	2472.5	2623.9	2730.4	2788.7
12.5°	2043.7	2085.6	2096.9	2094.8	2128.6	2212.5	2364.0	2539.0	2720.1	2832.7	2904.3
15°	2217.7	2232.0	2147.0	2069.3	2074.4	2175.7	2377.3	2592.2	2803.0	2938.1	3015.9
17.5°	2334.3	2296.5	2145.0	2008.9	1980.2	2113.3	2377.3	2643.4	2891.0	3043.5	3116.2
20°	2343.5	2249.4	2092.8	1950.6	1876.9	2030.4	2360.9	2682.3	2976.0	3144.8	3222.6
22.5°	2262.7	2169.6	2037.5	1900.4	1791.9	1930.1	2334.3	2711.9	3048.6	3240.0	3336.2
25°	2170.6	2092.8	1981.3	1849.2	1733.6	1828.8	2309.8	2762.1	3149.9	3369.0	3466.2
27.5°	2080.5	2015.0	1913.7	1806.3	1700.9	1740.8	2294.4	2835.8	3270.7	3552.1	3636.1
30°	1992.5	1933.2	1841.1	1765.3	1683.5	1683.5	2281.1	2920.7	3430.4	3757.8	3841.8
32.5°	1903.5	1847.2	1772.5	1725.4	1673.2	1660.9	2244.3	3000.5	3595.1	3983.0	4068.9
35°	1820.6	1764.3	1707.0	1687.5	1668.1	1643.5	2153.2	3063.0	3755.8	4246.0	4319.7
37.5°	1742.8	1688.6	1645.6	1640.5	1642.5	1596.5	2009.9	3115.2	3956.4	4515.1	4554.0
40°	1675.3	1614.9	1581.1	1580.1	1590.3	1520.7	1828.8	3189.9	4185.6	4743.3	4727.0
42.5°	1614.9	1551.4	1510.5	1519.7	1513.6	1445.0	1651.7	3258.4	4385.2	4957.2	4924.5
45°	1555.5	1494.1	1436.8	1450.1	1443.0	1397.9	1501.3	3308.6	4606.2	5214.1	5218.2
47.5°	1498.2	1437.8	1380.5	1364.2	1363.1	1383.6	1385.7	3324.9	4966.4	5627.5	5534.4
50°	1445.0	1384.6	1325.3	1270.0	1291.5	1354.9	1299.7	3312.7	5505.8	6084.0	5824.0
52.5°	1389.7	1332.4	1266.9	1167.7	1224.0	1286.4	1222.9	3268.7	5835.3	6487.2	6331.6
55°	1326.3	1272.1	1183.0	1062.3	1130.8	1144.1	1144.1	2842.9	5975.5	6886.3	6982.5
57.5°	1241.4	1169.7	1028.5	931.3	992.7	941.5	1060.2	1989.4	5744.2	6760.4	7134.0
60°	1145.2	1068.4	919.0	849.4	867.8	777.8	903.6	1247.5	4760.7	5752.4	6399.2
62.5°	1018.3	947.6	823.8	769.6	731.7	634.5	727.6	789.0	3263.5	4271.6	4712.6
65°	933.3	855.5	745.0	673.4	595.6	510.7	483.0	517.8	1755.1	2390.6	2688.4
67.5°	833.0	756.3	651.9	561.8	499.4	438.0	389.9	377.6	601.7	796.2	861.7
70°	737.9	664.2	577.2	493.3	430.8	370.5	323.4	289.6	278.4	276.3	272.2
72.5°	640.6	572.1	499.4	421.6	353.1	297.8	255.8	217.0	200.6	195.5	190.3
75°	525.0	470.8	398.1	314.2	258.9	207.7	175.0	149.4	135.1	130.0	123.8
77.5°	337.7	313.2	249.7	202.6	156.6	123.8	106.4	90.1	80.8	78.8	73.7
80°	180.1	167.8	138.2	116.7	93.1	75.7	66.5	57.3	52.2	50.1	48.1
82.5°	100.3	91.1	76.8	67.5	54.2	46.1	40.9	36.8	33.8	32.7	31.7
85°	45.0	38.9	30.7	28.7	25.6	23.5	22.5	20.5	19.4	18.4	17.4
87.5°	2.0	4.1	5.1	4.1	4.1	6.1	7.2	7.2	6.1	6.1	5.1
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: P636720

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2	2241.2
2.5°	2391.6	2422.3	2425.4	2435.6	2422.3	2419.3	2397.8	2385.5	2374.2	2371.2
5°	2577.9	2639.3	2663.8	2681.2	2664.9	2656.7	2609.6	2560.5	2532.9	2519.6
7.5°	2769.3	2861.4	2909.5	2930.9	2933.0	2896.2	2815.3	2723.2	2677.2	2659.8
10°	2940.2	3053.8	3117.2	3158.1	3143.8	3098.8	2988.3	2863.4	2805.1	2789.7
12.5°	3067.1	3175.5	3224.7	3251.3	3250.2	3225.7	3121.3	2986.2	2919.7	2904.3
15°	3148.9	3213.4	3216.5	3222.6	3240.0	3272.8	3218.5	3093.7	3020.0	2998.5
17.5°	3213.4	3187.8	3139.7	3123.3	3162.2	3253.3	3286.1	3184.7	3104.9	3086.5
20°	3254.3	3125.4	3040.4	3008.7	3053.8	3202.1	3327.0	3266.6	3183.7	3160.2
22.5°	3286.1	3067.1	2929.9	2908.4	2955.5	3146.9	3369.0	3363.8	3272.8	3240.0
25°	3336.2	3028.2	2852.1	2836.8	2880.8	3120.3	3425.2	3495.9	3415.0	3367.9
27.5°	3415.0	3024.1	2812.2	2807.1	2867.5	3143.8	3506.1	3689.3	3588.0	3553.2
30°	3524.5	3063.0	2821.4	2831.7	2905.4	3228.7	3632.0	3910.3	3809.0	3754.8
32.5°	3682.1	3167.3	2961.6	3005.7	3059.9	3364.9	3816.2	4149.8	4073.0	3993.2
35°	3889.9	3453.9	3376.1	3563.4	3512.2	3662.7	4038.2	4440.4	4347.3	4277.7
37.5°	4167.2	4041.3	4112.9	4370.8	4247.0	4225.5	4309.4	4704.5	4653.3	4583.7
40°	4556.1	4581.7	4713.7	5052.4	4873.3	4735.2	4642.0	4903.0	4920.4	4834.4
42.5°	4814.0	4931.6	5249.9	5634.7	5388.1	5057.5	4920.4	5156.8	5157.8	5080.0
45°	4910.2	5218.2	5883.4	6326.5	5914.1	5241.7	5073.9	5501.7	5491.4	5402.4
47.5°	4875.4	5459.7	6541.4	7218.9	6589.5	5372.7	5052.4	5992.9	6075.8	5940.7
50°	4802.7	5702.2	7310.0	8311.9	7418.4	5511.9	5019.7	6537.3	6674.5	6570.1
52.5°	4876.4	5972.4	8218.7	9441.7	8458.2	5734.0	5240.7	7236.3	7211.7	7085.9
55°	5109.7	6291.7	9323.0	10861.1	9600.3	6109.6	5808.7	7902.5	7652.8	7502.4
57.5°	5098.5	6519.9	10291.1	11983.7	10594.0	6417.6	6006.2	7973.1	7468.6	7278.2
60°	4627.7	6415.5	10659.5	12694.0	10893.8	6247.7	5356.3	7121.7	6301.9	6102.4
62.5°	3453.9	5693.0	9945.2	11804.6	10045.5	5396.3	4028.0	5111.8	4528.4	4191.7
65°	2209.5	4453.7	8361.0	9563.4	8280.1	4127.3	2398.8	2740.6	2147.0	2050.8
67.5°	940.5	3143.8	6499.5	6392.0	6194.5	2674.1	926.2	771.6	575.1	564.9
70°	311.1	2138.9	4006.5	4263.4	3699.5	1842.1	306.0	258.9	257.9	248.7
72.5°	203.7	1148.2	2255.5	2511.4	2380.4	1060.2	185.2	173.0	177.0	173.0
75°	121.8	249.7	379.7	493.3	379.7	178.1	111.5	109.5	111.5	106.4
77.5°	71.6	69.6	67.5	67.5	66.5	61.4	56.3	54.2	55.3	56.3
80°	46.1	44.0	42.0	40.9	35.8	33.8	31.7	29.7	29.7	30.7
82.5°	29.7	27.6	25.6	22.5	18.4	15.4	14.3	12.3	12.3	13.3
85°	15.4	12.3	9.2	7.2	4.1	2.0	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)