

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: P636724

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT 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: 11169.4 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

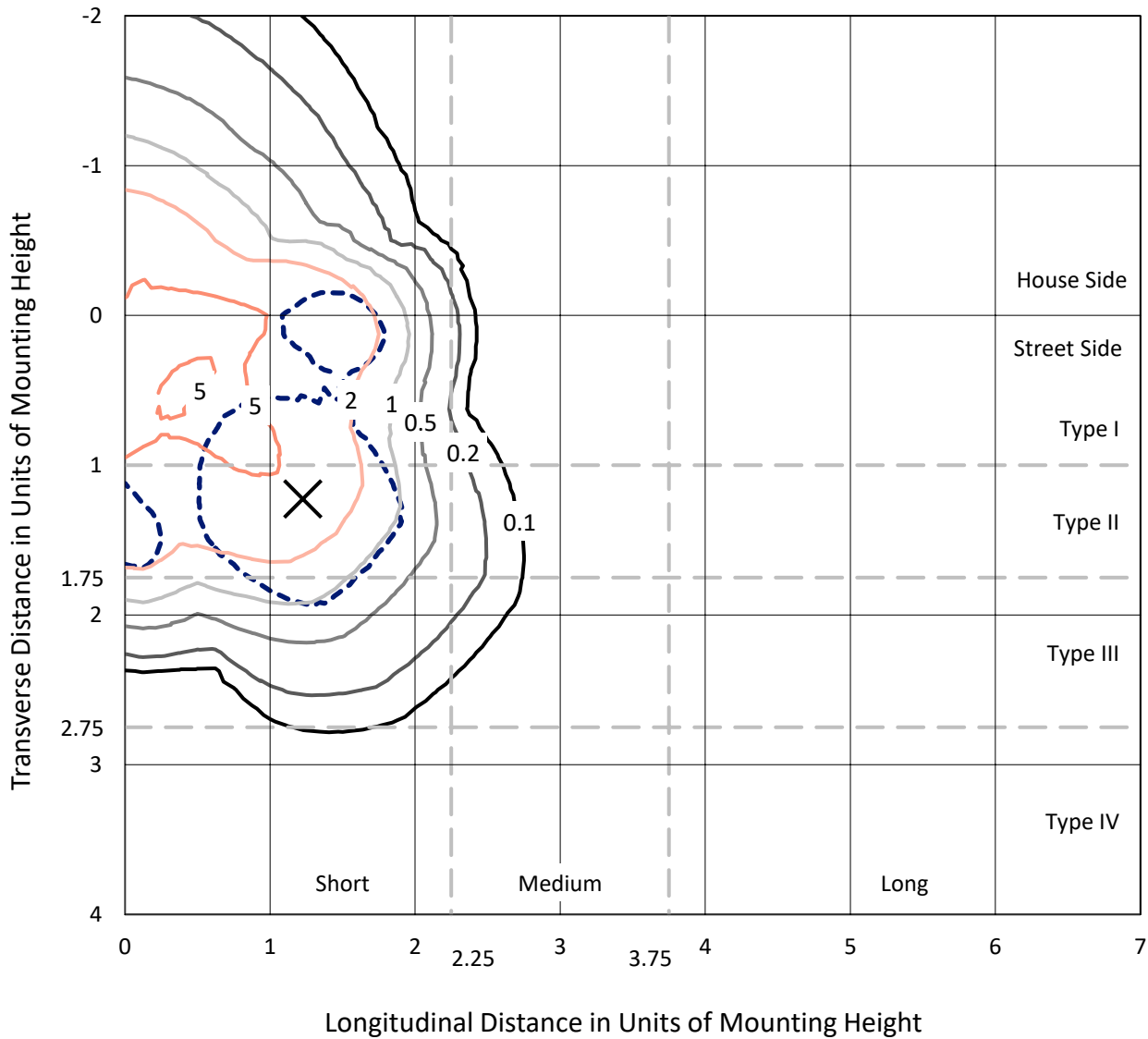
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636724
 CATALOG NUMBER: GWS-SA4B-735-U-SLR-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

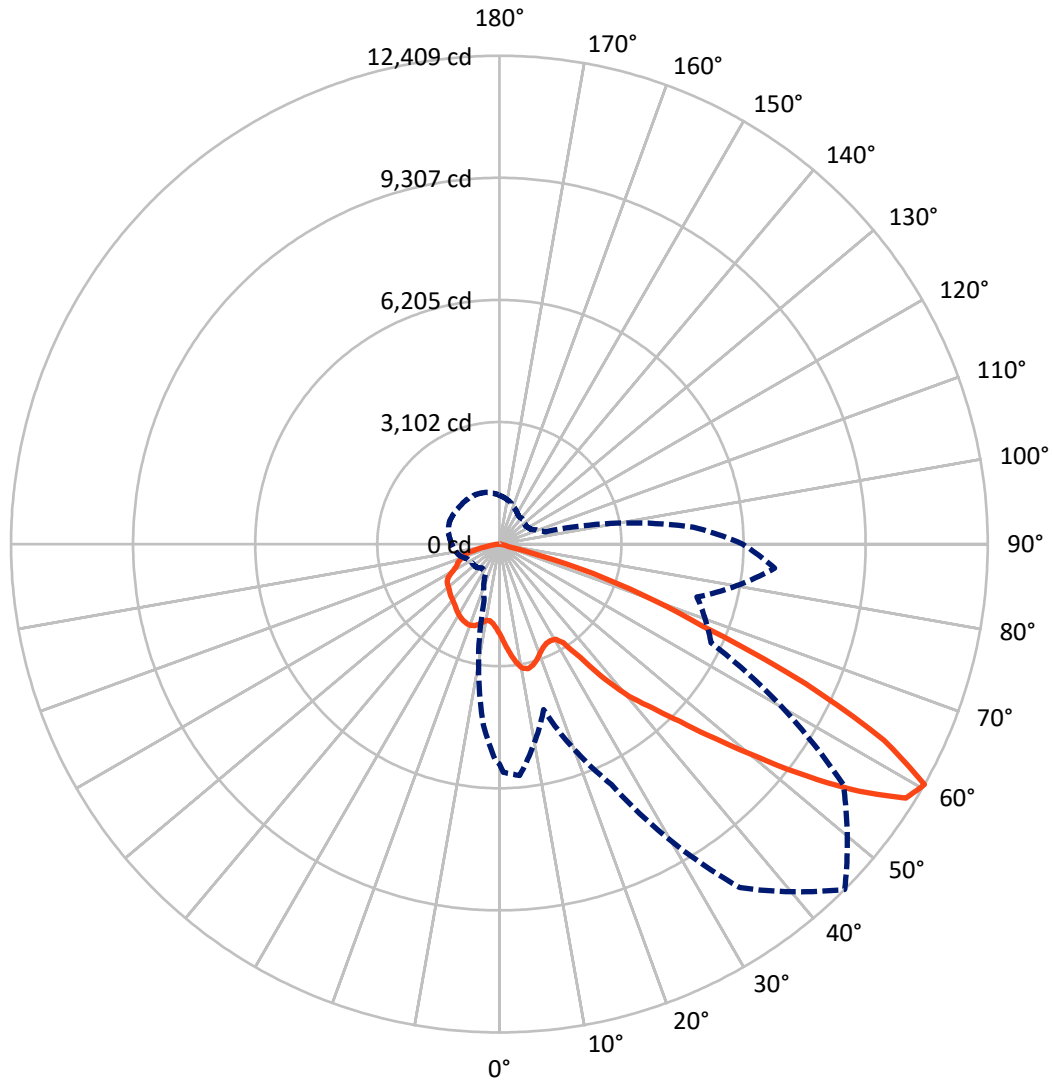
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P636724
CATALOG NUMBER: GWS-SA4B-735-U-SLR-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P636724

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3915.3	0.0	3915.3
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	7254.1	0.0	7254.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	11169.4	0.0	11169.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	2.0
10°-20°	707.4	6.3
20°-30°	1149.1	10.3
30°-40°	1620.6	14.5
40°-50°	2239.6	20.1
50°-60°	2883.1	25.8
60°-70°	1826.8	16.4
70°-80°	468.7	4.2
80°-90°	50.1	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°	11169.4	100.0
0°-180°	11169.4	100.0

Coefficient of Utilization



REPORT NUMBER: P636724

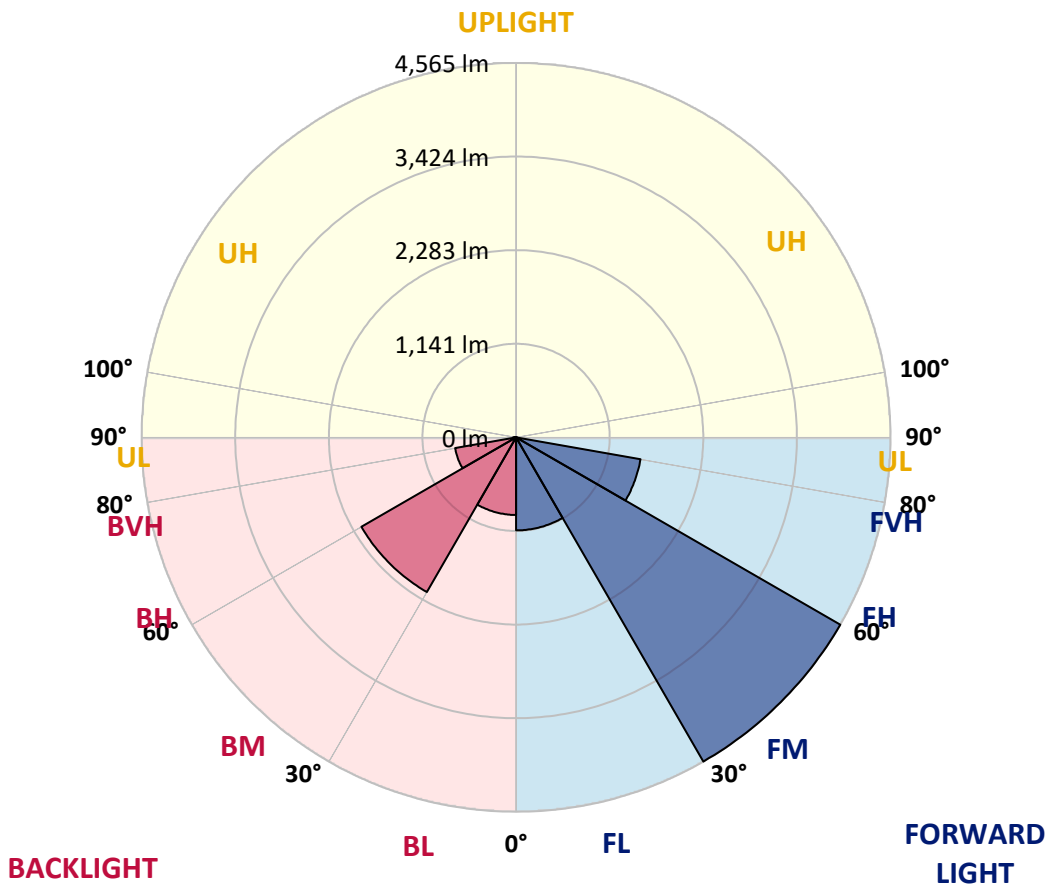
CATALOG NUMBER: GWS-SA4B-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.1	10.2			
FM (30°-60°)	4565.4	40.9			
FH (60°-80°)	1541.0	13.8			G1/1800
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	946.3	8.5	B2/1000		
BM (30°-60°)	2177.9	19.5	B2/2500		
BH (60°-80°)	754.5	6.8	B2/1000		G2/1000
BVH (80°-90°)	36.5	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: P636724

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5
2.5°	2399.9	2416.3	2426.5	2446.0	2480.8	2500.2	2521.7	2498.2	2504.3	2501.3	2463.4
5°	2542.2	2561.6	2588.2	2645.6	2710.0	2745.9	2779.6	2774.5	2742.8	2689.6	2651.7
7.5°	2675.2	2697.8	2743.8	2836.9	2932.1	2987.4	3028.3	3001.7	2975.1	2891.2	2796.0
10°	2779.6	2792.9	2855.4	2980.2	3090.7	3153.2	3203.3	3197.2	3160.3	3066.2	2938.3
12.5°	2877.9	2887.1	2954.6	3079.5	3178.8	3206.4	3247.3	3260.6	3248.4	3177.7	3051.9
15°	2983.3	3000.7	3063.1	3158.3	3203.3	3174.7	3189.0	3225.8	3260.6	3260.6	3145.0
17.5°	3081.5	3096.9	3160.3	3201.3	3158.3	3082.6	3086.7	3133.7	3216.6	3303.6	3229.9
20°	3168.5	3182.9	3245.3	3206.4	3070.3	2959.7	2956.7	3014.0	3148.1	3331.3	3321.0
22.5°	3263.7	3284.2	3336.4	3210.5	2988.4	2848.2	2847.2	2906.5	3087.7	3358.9	3425.4
25°	3398.8	3430.5	3457.1	3246.3	2944.4	2775.5	2788.8	2845.1	3068.2	3403.9	3579.9
27.5°	3599.4	3625.0	3622.9	3321.0	2942.4	2745.9	2773.5	2839.0	3103.0	3483.7	3742.7
30°	3816.4	3829.7	3808.2	3425.4	2989.4	2764.3	2805.2	2883.0	3191.0	3615.8	3982.2
32.5°	4056.9	4073.2	4032.3	3582.0	3098.9	2900.4	2990.5	3028.3	3314.9	3806.1	4236.0
35°	4333.2	4364.9	4280.0	3788.7	3421.3	3396.8	3527.8	3478.6	3577.9	4031.3	4507.2
37.5°	4623.8	4624.9	4503.1	4094.7	4053.8	4095.8	4357.7	4204.2	4135.7	4282.0	4783.5
40°	4870.5	4864.3	4677.1	4507.2	4604.4	4771.2	5087.5	4852.1	4671.9	4618.7	5012.7
42.5°	5117.1	5094.6	4905.3	4769.2	4984.1	5326.9	5684.1	5395.5	5015.8	4924.7	5238.9
45°	5432.3	5425.2	5197.0	4873.6	5326.9	5949.2	6423.0	5955.3	5219.5	5102.8	5615.5
47.5°	5941.0	5906.2	5481.5	4865.4	5648.3	6778.2	7376.9	6660.5	5361.7	5106.9	6223.5
50°	6438.4	6395.4	5821.2	4864.3	5979.9	7637.8	8502.6	7517.1	5507.1	5131.5	6841.6
52.5°	6940.9	6940.9	6379.0	4980.0	6327.8	8597.8	9803.4	8584.5	5754.7	5452.8	7602.0
55°	7239.7	7319.5	7006.4	5175.5	6735.2	9727.7	11089.8	9736.9	6137.5	6033.1	8304.1
57.5°	6860.0	7009.4	6964.4	5039.4	6975.7	10557.7	12180.8	10610.9	6326.8	6101.7	8198.7
60°	5590.0	5797.7	5901.1	4351.6	6738.2	10653.9	12409.0	10668.2	5935.9	5195.9	7022.8
62.5°	3716.1	3887.0	4044.6	3109.2	5833.5	9584.4	10975.2	9587.5	4957.5	3877.8	4865.4
65°	1822.7	1949.6	2119.5	1838.1	4557.3	8008.3	8556.9	7747.3	3586.1	2170.7	2481.8
67.5°	476.9	512.7	536.3	713.3	3264.7	5753.7	5580.7	5666.7	2303.7	709.2	648.9
70°	247.7	249.7	248.7	294.7	2206.5	3656.7	3846.0	3558.5	1607.8	296.8	255.9
72.5°	177.1	178.1	175.0	198.5	1065.4	2095.0	2170.7	2147.1	842.3	176.0	175.0
75°	115.6	116.7	114.6	116.7	160.7	238.5	220.0	231.3	140.2	111.6	111.6
77.5°	68.6	69.6	68.6	70.6	68.6	68.6	63.5	63.5	60.4	60.4	61.4
80°	46.1	46.1	45.0	47.1	43.0	43.0	40.9	39.9	36.8	35.8	35.8
82.5°	27.6	28.7	27.6	27.6	25.6	25.6	23.5	22.5	19.4	19.4	18.4
85°	14.3	14.3	13.3	13.3	11.3	10.2	8.2	8.2	6.1	5.1	5.1
87.5°	2.0	2.0	1.0	1.0	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	0.0



REPORT NUMBER: P636724

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5
2.5°	2453.2	2432.7	2402.0	2372.3	2344.7	2316.0	2283.3	2249.5	2220.8	2191.2	2175.8
5°	2601.6	2559.6	2479.8	2409.1	2345.7	2293.5	2237.2	2189.1	2144.1	2107.2	2088.8
7.5°	2735.6	2670.1	2549.4	2437.8	2351.8	2280.2	2202.4	2130.8	2070.4	2025.4	2008.0
10°	2859.5	2781.7	2623.0	2481.8	2381.5	2301.7	2206.5	2109.3	2029.5	1970.1	1955.8
12.5°	2959.7	2870.7	2681.4	2517.6	2398.9	2312.9	2229.0	2145.1	2066.3	1989.5	1977.3
15°	3048.8	2943.4	2725.4	2540.1	2392.8	2283.3	2212.6	2202.4	2202.4	2115.4	2090.9
17.5°	3125.5	3009.9	2761.2	2550.4	2353.9	2195.2	2152.3	2241.3	2341.6	2279.2	2223.9
20°	3213.6	3073.3	2790.9	2550.4	2282.2	2083.7	2079.6	2231.1	2379.5	2380.5	2322.2
22.5°	3302.6	3147.0	2825.7	2541.2	2184.0	1954.7	2030.5	2190.1	2322.2	2378.4	2338.5
25°	3446.9	3249.4	2880.9	2534.0	2069.4	1866.7	1986.5	2135.9	2247.4	2306.8	2281.2
27.5°	3630.1	3384.5	2964.9	2545.3	1955.8	1814.5	1939.4	2065.3	2166.6	2218.8	2200.4
30°	3834.8	3540.0	3054.9	2564.7	1873.9	1787.9	1883.1	1984.4	2074.5	2126.7	2118.5
32.5°	4095.8	3708.9	3132.7	2538.1	1827.8	1774.6	1823.7	1896.4	1983.4	2016.2	2023.3
35°	4407.9	3895.2	3192.1	2433.7	1785.9	1760.3	1759.3	1804.3	1865.7	1917.9	1923.0
37.5°	4695.5	4113.2	3257.6	2254.6	1710.1	1724.5	1683.5	1710.1	1770.5	1822.7	1843.2
40°	4980.0	4334.2	3348.7	2026.4	1610.9	1644.6	1596.5	1615.0	1663.1	1731.6	1764.4
42.5°	5256.3	4533.8	3444.9	1793.0	1511.6	1533.1	1497.3	1515.7	1565.8	1651.8	1688.7
45°	5557.2	4804.0	3519.6	1573.0	1425.6	1416.4	1387.8	1414.4	1490.1	1584.3	1628.3
47.5°	6126.2	5229.7	3568.7	1426.7	1379.6	1313.1	1280.3	1337.6	1423.6	1518.8	1572.0
50°	6821.1	5845.8	3554.4	1333.5	1339.7	1206.6	1195.4	1271.1	1363.2	1462.5	1520.8
52.5°	7371.7	6450.7	3391.6	1244.5	1261.9	1139.1	1106.3	1216.9	1304.9	1406.2	1466.6
55°	7792.4	6654.3	2892.2	1139.1	1135.0	1089.9	1021.4	1160.6	1246.5	1340.7	1406.2
57.5°	7449.5	6200.9	2144.1	993.7	969.2	992.7	926.2	1065.4	1174.9	1268.0	1326.4
60°	6182.5	4944.2	1194.3	880.1	810.6	867.9	857.6	965.1	1097.1	1195.4	1245.5
62.5°	4197.1	3292.4	708.2	695.9	657.0	738.9	793.2	863.8	993.7	1073.6	1120.7
65°	2091.9	1599.6	470.8	520.9	526.0	607.9	710.3	788.0	896.5	978.4	1025.5
67.5°	606.9	497.4	358.2	398.1	453.4	518.9	600.8	692.9	798.3	895.5	950.8
70°	262.0	265.1	284.5	331.6	385.8	453.4	535.3	625.3	714.4	789.1	831.0
72.5°	185.2	192.4	213.9	262.0	313.2	377.6	459.5	546.5	611.0	686.7	730.7
75°	118.7	123.8	141.2	178.1	215.9	278.4	356.2	436.0	502.5	556.7	598.7
77.5°	65.5	66.5	80.9	102.3	127.9	167.8	225.2	287.6	336.7	367.4	405.3
80°	37.9	37.9	45.0	58.3	73.7	98.2	130.0	160.7	190.4	209.8	228.2
82.5°	20.5	20.5	23.5	31.7	39.9	54.2	72.7	88.0	106.4	116.7	129.0
85°	6.1	6.1	8.2	11.3	14.3	20.5	28.7	36.8	45.0	52.2	59.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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: P636724

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5
2.5°	2172.7	2158.4	2150.2	2140.0	2143.1	2133.8	2128.7	2131.8	2113.4	2131.8	2150.2
5°	2081.6	2061.2	2044.8	2031.5	2025.4	2013.1	2005.9	2005.9	1994.7	2013.1	2035.6
7.5°	2001.8	1985.4	1977.3	1969.1	1959.9	1948.6	1936.3	1932.2	1925.1	1944.5	1964.0
10°	1948.6	1950.7	1955.8	1967.0	1965.0	1957.8	1939.4	1929.2	1929.2	1951.7	1981.4
12.5°	1973.2	1994.7	2006.9	2027.4	2031.5	2025.4	2006.9	1998.8	2019.2	2053.0	2102.1
15°	2068.3	2082.7	2092.9	2109.3	2108.3	2103.1	2088.8	2095.0	2162.5	2228.0	2272.0
17.5°	2171.7	2155.3	2153.3	2163.5	2166.6	2160.5	2152.3	2179.9	2291.5	2352.9	2375.4
20°	2246.4	2190.1	2177.9	2181.9	2190.1	2187.1	2187.1	2232.1	2347.7	2376.4	2347.7
22.5°	2268.9	2189.1	2170.7	2171.7	2183.0	2184.0	2189.1	2236.2	2303.7	2304.8	2260.7
25°	2233.1	2156.4	2143.1	2145.1	2158.4	2157.4	2159.4	2186.0	2215.7	2203.4	2170.7
27.5°	2165.6	2099.0	2095.0	2106.2	2123.6	2114.4	2108.3	2115.4	2129.8	2114.4	2085.7
30°	2088.8	2032.5	2034.6	2056.1	2074.5	2059.1	2043.8	2047.9	2048.9	2032.5	1999.8
32.5°	2008.0	1966.0	1973.2	1995.7	2017.2	2000.8	1984.4	1982.4	1962.9	1943.5	1911.8
35°	1927.1	1910.7	1919.9	1938.4	1956.8	1943.5	1933.3	1927.1	1885.2	1856.5	1829.9
37.5°	1853.4	1865.7	1882.1	1893.3	1899.5	1898.5	1892.3	1878.0	1822.7	1788.9	1754.2
40°	1787.9	1825.8	1843.2	1848.3	1857.5	1855.5	1854.4	1834.0	1761.3	1725.5	1685.6
42.5°	1728.6	1781.8	1811.5	1816.6	1821.7	1822.7	1819.7	1790.0	1707.1	1665.1	1627.2
45°	1671.3	1740.8	1778.7	1773.6	1780.8	1780.8	1783.8	1744.9	1653.9	1610.9	1571.0
47.5°	1621.1	1703.0	1737.8	1731.6	1735.7	1738.8	1741.9	1696.8	1595.5	1554.6	1513.6
50°	1575.1	1662.0	1691.7	1693.8	1693.8	1700.9	1699.9	1655.9	1546.4	1502.4	1461.5
52.5°	1525.9	1620.1	1651.8	1665.1	1669.2	1672.3	1658.0	1606.8	1496.2	1443.0	1405.2
55°	1468.6	1577.1	1605.8	1623.2	1631.3	1629.3	1609.8	1557.7	1445.1	1391.9	1348.9
57.5°	1381.6	1485.0	1525.9	1534.1	1547.4	1539.2	1516.7	1472.7	1363.2	1310.0	1266.0
60°	1286.4	1361.2	1393.9	1401.1	1390.8	1393.9	1390.8	1348.9	1253.7	1211.7	1166.7
62.5°	1161.6	1228.1	1262.9	1272.1	1254.7	1266.0	1261.9	1209.7	1114.5	1070.5	1030.6
65°	1067.4	1140.1	1181.0	1186.2	1181.0	1186.2	1171.8	1108.4	1018.3	973.3	932.3
67.5°	993.7	1068.5	1111.4	1125.8	1120.7	1119.6	1097.1	1023.4	930.3	881.2	829.0
70°	866.8	932.3	987.6	1022.4	1022.4	1003.0	960.0	891.4	816.7	774.7	733.8
72.5°	767.6	850.5	904.7	940.5	947.7	936.4	876.1	803.4	717.4	675.5	632.5
75°	632.5	713.3	771.7	818.7	828.0	815.7	746.1	674.4	594.6	553.7	510.7
77.5°	422.7	470.8	517.9	560.8	551.6	559.8	512.7	458.5	409.4	378.7	359.2
80°	238.5	270.2	284.5	308.1	308.1	308.1	277.3	251.8	224.1	206.7	187.3
82.5°	135.1	155.6	161.7	181.1	186.3	187.3	166.8	150.4	133.0	123.8	110.5
85°	62.4	73.7	74.7	86.0	90.1	98.2	89.0	77.8	67.5	63.5	55.3
87.5°	2.0	6.1	8.2	15.4	20.5	23.5	25.6	25.6	21.5	19.4	16.4
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: P636724

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5	2294.5
2.5°	2172.7	2197.3	2226.0	2246.4	2283.3	2314.0	2345.7	2380.5	2406.1	2399.9
5°	2063.2	2104.2	2156.4	2204.5	2273.0	2342.6	2419.4	2498.2	2544.2	2542.2
7.5°	2001.8	2060.2	2123.6	2188.1	2268.9	2369.2	2486.9	2609.7	2672.2	2675.2
10°	2034.6	2097.0	2140.0	2194.2	2279.2	2405.1	2546.3	2693.7	2765.3	2779.6
12.5°	2137.9	2132.8	2129.8	2168.6	2271.0	2430.6	2603.6	2779.6	2860.5	2877.9
15°	2236.2	2130.8	2067.3	2093.9	2234.1	2447.0	2659.9	2873.8	2964.9	2983.3
17.5°	2254.6	2095.0	1977.3	1995.7	2175.8	2452.1	2714.1	2965.9	3064.1	3081.5
20°	2203.4	2048.9	1911.8	1886.2	2102.1	2438.8	2747.9	3042.6	3150.1	3168.5
22.5°	2139.0	2008.0	1862.6	1796.1	2012.1	2425.5	2785.8	3123.5	3247.3	3263.7
25°	2071.4	1955.8	1816.6	1715.3	1909.7	2417.3	2849.2	3229.9	3379.4	3398.8
27.5°	1999.8	1892.3	1776.7	1676.4	1815.6	2427.6	2939.3	3401.9	3571.8	3599.4
30°	1923.0	1828.9	1751.1	1663.1	1751.1	2436.8	3038.6	3577.9	3777.5	3816.4
32.5°	1843.2	1770.5	1724.5	1669.2	1711.2	2415.3	3125.5	3775.4	4023.1	4056.9
35°	1763.4	1711.2	1690.7	1680.5	1658.0	2336.5	3196.2	3975.0	4303.5	4333.2
37.5°	1688.7	1649.8	1643.6	1654.9	1576.1	2207.5	3278.0	4228.8	4578.8	4623.8
40°	1619.1	1583.2	1582.2	1580.2	1486.0	2031.5	3388.6	4486.7	4850.0	4870.5
42.5°	1554.6	1509.6	1517.7	1493.2	1412.3	1841.1	3493.0	4706.7	5102.8	5117.1
45°	1497.3	1437.9	1447.1	1416.4	1377.5	1641.6	3585.1	4966.7	5423.1	5432.3
47.5°	1442.0	1378.6	1353.0	1350.9	1371.4	1457.4	3675.1	5467.1	5924.6	5941.0
50°	1390.8	1322.3	1249.6	1294.6	1333.5	1319.2	3787.7	6003.4	6442.5	6438.4
52.5°	1341.7	1251.7	1148.3	1235.3	1235.3	1216.9	3756.0	6328.9	6870.3	6940.9
55°	1285.4	1138.1	1042.9	1136.0	1091.0	1124.7	3194.1	6435.3	7139.4	7239.7
57.5°	1173.9	997.8	914.9	965.1	897.5	1042.9	2294.5	5907.2	6682.0	6860.0
60°	1066.4	894.5	840.2	831.0	743.0	850.5	1487.0	4624.9	5499.9	5590.0
62.5°	940.5	805.4	759.4	688.8	597.7	619.2	900.6	3043.7	3695.6	3716.1
65°	845.4	729.7	641.7	557.8	489.2	449.3	532.2	1467.6	1847.3	1822.7
67.5°	725.6	625.3	541.4	481.0	424.7	374.6	354.1	436.0	493.3	476.9
70°	645.8	549.6	468.7	411.4	359.2	309.1	273.3	256.9	251.8	247.7
72.5°	556.7	472.8	388.9	333.6	284.5	238.5	205.7	186.3	181.1	177.1
75°	444.2	365.4	288.6	236.4	193.4	160.7	139.2	122.8	119.7	115.6
77.5°	293.7	234.4	171.9	140.2	114.6	97.2	82.9	72.7	70.6	68.6
80°	161.7	135.1	105.4	84.9	68.6	59.4	54.2	48.1	47.1	46.1
82.5°	96.2	80.9	60.4	48.1	39.9	35.8	32.7	29.7	28.7	27.6
85°	48.1	37.9	26.6	22.5	20.5	18.4	18.4	15.4	14.3	14.3
87.5°	12.3	10.2	6.1	5.1	5.1	5.1	4.1	3.1	3.1	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)