

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: P634245

Luminaire Tested: GWS-SA3B-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634245
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-SA3B-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7985.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

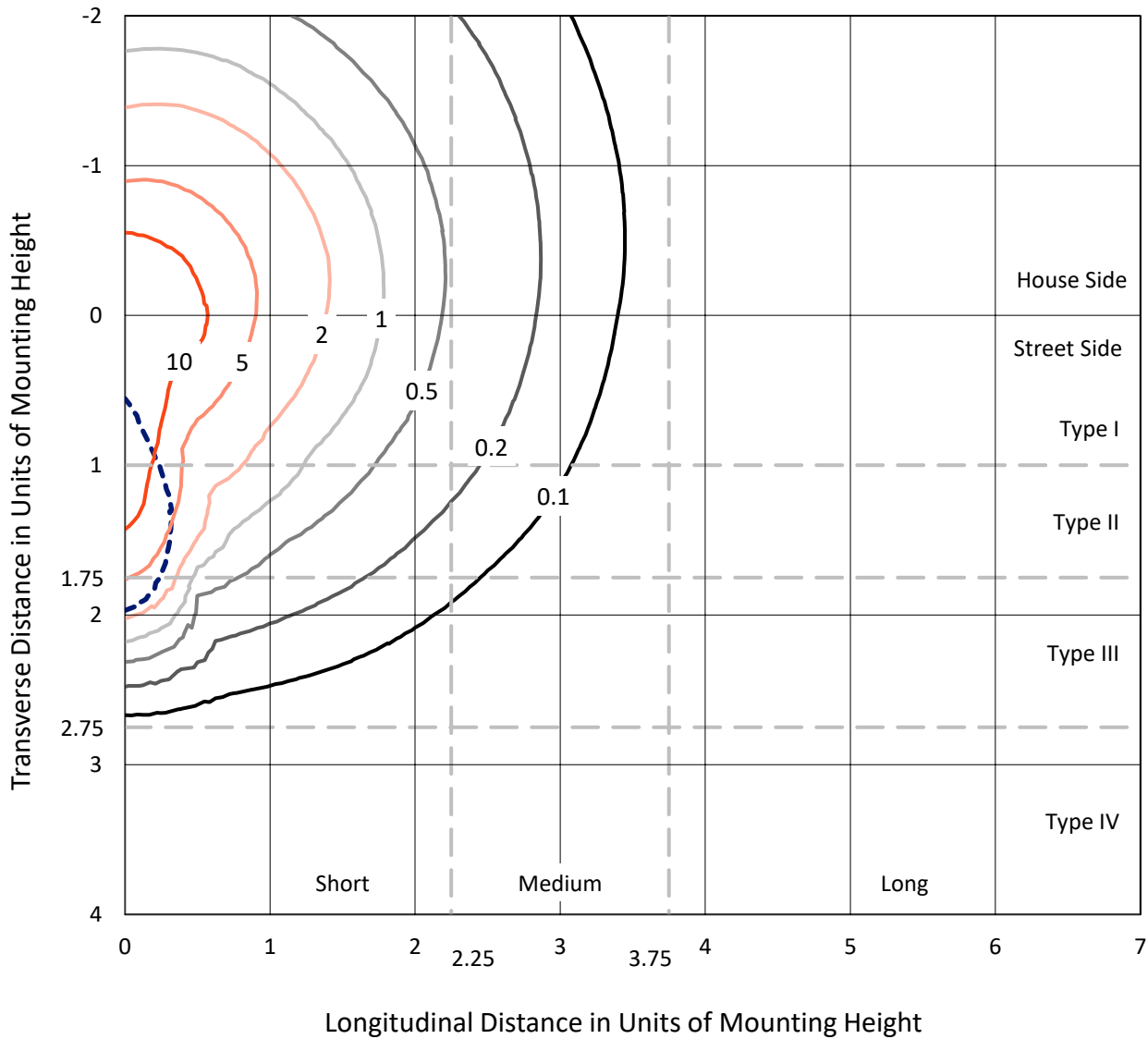
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P634245
 CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

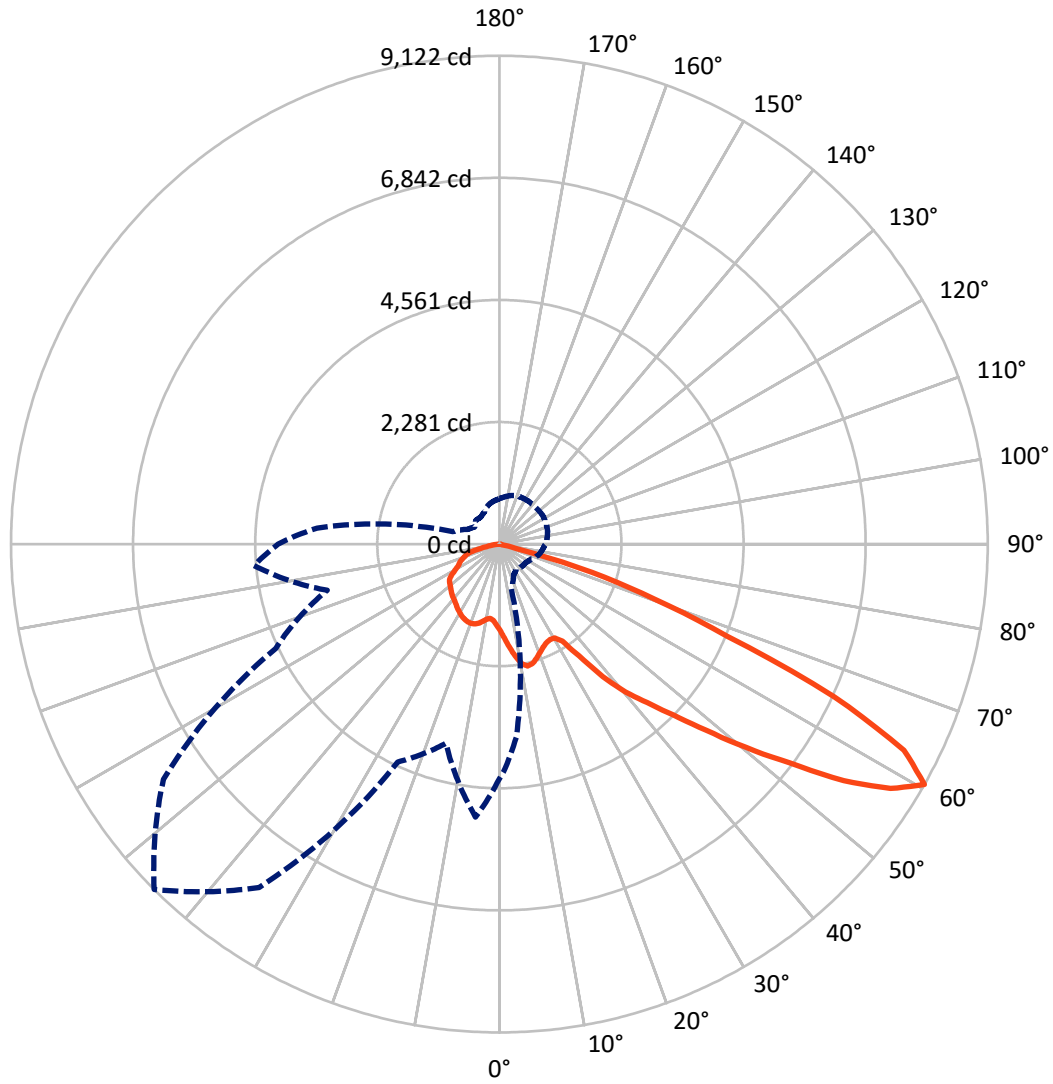
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - N/A

REPORT NUMBER: P634245
CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P634245

CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2731.7	0.0	2731.7
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	5253.6	0.0	5253.6
	% Fixture	65.8	0.0	65.8
Total	Lumens	7985.3	0.0	7985.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	2.0
10°-20°	504.7	6.3
20°-30°	822.0	10.3
30°-40°	1154.7	14.5
40°-50°	1580.0	19.8
50°-60°	2027.1	25.4
60°-70°	1365.0	17.1
70°-80°	341.2	4.3
80°-90°	33.3	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°	7985.3	100.0
0°-180°	7985.3	100.0

Coefficient of Utilization



REPORT NUMBER: P634245

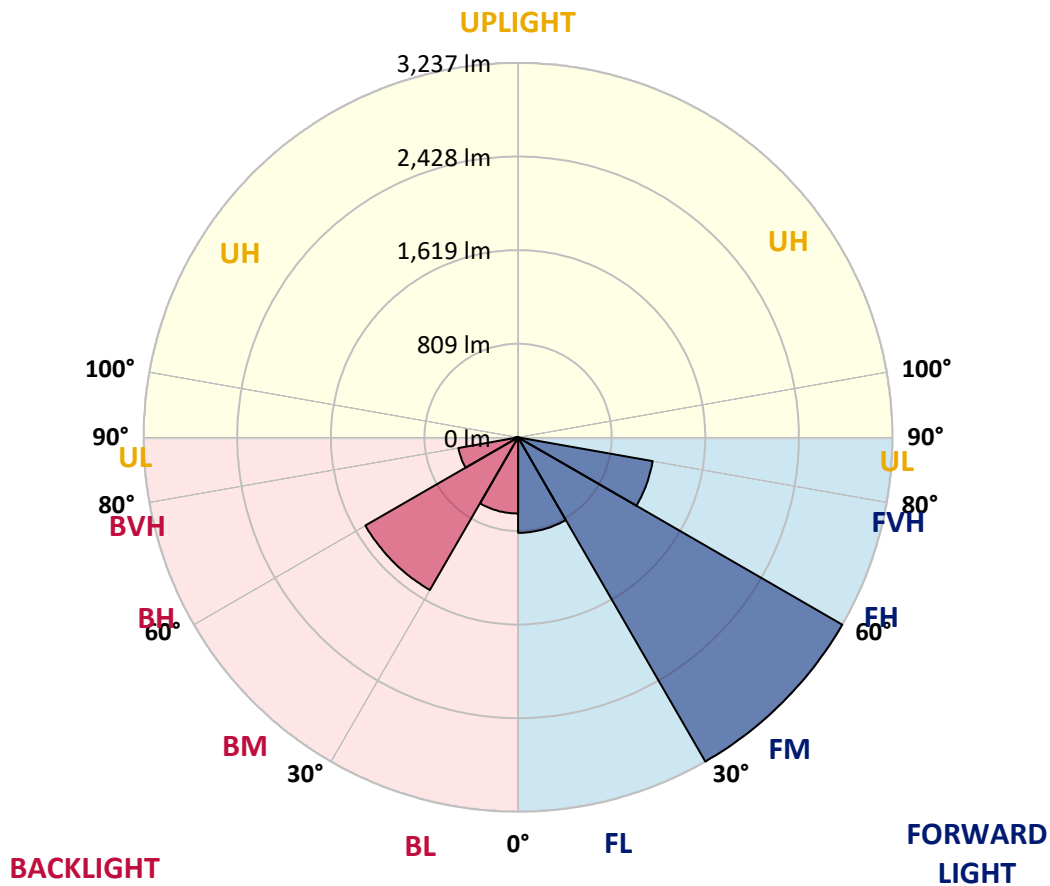
CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.5	10.3			
FM (30°-60°)	3237.3	40.5			
FH (60°-80°)	1182.2	14.8			G1/1800
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	658.5	8.2	B2/1000		
BM (30°-60°)	1524.5	19.1	B2/2500		
BH (60°-80°)	524.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	24.6	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: P634245

CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1703.9	1700.3	1696.6	1667.9	1660.6	1640.0	1625.3	1606.9	1580.4	1565.7	1553.2
5°	1810.6	1804.7	1784.8	1726.0	1687.8	1645.8	1611.3	1573.0	1532.6	1506.1	1485.5
7.5°	1911.3	1909.9	1876.0	1779.0	1717.2	1656.9	1609.8	1553.9	1495.8	1456.1	1429.6
10°	2004.7	1993.7	1953.3	1826.8	1745.9	1676.7	1626.0	1564.2	1496.6	1442.9	1407.6
12.5°	2087.1	2073.1	2017.2	1870.9	1770.9	1685.6	1630.4	1579.7	1534.8	1489.9	1449.5
15°	2154.8	2137.8	2081.2	1912.1	1792.9	1680.4	1603.2	1563.5	1578.9	1598.8	1553.9
17.5°	2218.0	2200.3	2131.2	1942.2	1799.6	1648.8	1536.3	1519.4	1597.3	1687.8	1667.2
20°	2270.9	2251.1	2170.9	1956.9	1787.8	1588.5	1449.5	1478.9	1581.9	1690.0	1723.1
22.5°	2328.3	2312.1	2215.8	1978.3	1773.1	1505.4	1376.7	1448.8	1555.4	1650.3	1700.3
25°	2420.2	2400.4	2285.7	2015.8	1765.7	1427.4	1324.5	1419.3	1518.6	1604.7	1643.6
27.5°	2553.3	2516.6	2381.3	2081.2	1773.8	1353.9	1291.4	1383.3	1476.0	1549.5	1581.1
30°	2698.2	2654.1	2487.2	2148.9	1785.6	1309.0	1273.7	1342.1	1410.5	1484.1	1518.6
32.5°	2869.6	2830.6	2600.4	2199.6	1760.6	1288.4	1260.5	1297.3	1351.7	1410.5	1439.2
35°	3074.0	3004.2	2724.0	2240.8	1679.7	1258.3	1248.7	1248.0	1276.7	1334.0	1366.4
37.5°	3293.9	3218.9	2876.2	2284.9	1553.9	1210.5	1220.8	1189.9	1216.4	1262.0	1298.7
40°	3474.1	3395.4	3029.9	2345.2	1396.5	1135.5	1159.0	1125.9	1142.1	1189.2	1230.3
42.5°	3650.6	3566.7	3173.3	2413.6	1244.3	1061.9	1073.7	1061.2	1066.3	1115.6	1173.0
45°	3882.2	3788.1	3349.8	2462.2	1107.5	1003.8	992.8	971.5	998.7	1062.7	1123.7
47.5°	4269.1	4156.5	3638.8	2493.8	1008.2	970.7	920.0	907.5	941.3	1012.7	1075.9
50°	4721.3	4624.3	4100.7	2492.3	934.0	942.8	849.4	838.4	894.3	966.3	1033.3
52.5°	5092.0	4993.4	4495.6	2418.8	872.9	883.2	808.2	777.3	853.8	920.7	987.7
55°	5391.3	5280.3	4677.2	2111.4	795.7	788.4	763.4	706.7	803.1	875.1	937.6
57.5°	5230.2	5097.9	4457.3	1605.4	716.3	670.0	686.1	644.2	733.9	824.4	884.7
60°	4385.3	4266.1	3621.2	854.5	630.2	559.6	593.5	600.1	658.2	763.4	825.1
62.5°	3012.2	2925.5	2454.1	518.5	497.1	449.3	502.3	550.1	593.5	682.5	736.1
65°	1473.8	1448.0	1227.4	332.4	347.8	363.3	416.2	474.3	538.3	616.3	672.9
67.5°	405.9	408.9	372.1	259.6	274.3	317.0	358.9	405.2	469.2	541.3	598.6
70°	178.7	181.6	187.5	200.0	228.0	267.0	310.3	358.1	417.0	477.3	532.4
72.5°	124.3	127.2	136.1	152.2	177.2	214.0	255.2	300.8	361.8	412.6	458.2
75°	76.5	78.7	86.8	100.8	117.7	145.6	186.1	228.0	281.7	328.0	368.4
77.5°	40.4	39.0	44.1	53.7	68.4	83.1	110.3	136.8	175.0	212.5	246.4
80°	22.1	21.3	24.3	29.4	33.8	45.6	64.0	81.6	103.7	125.0	143.4
82.5°	9.6	8.8	9.6	12.5	15.4	22.1	32.4	44.9	57.4	72.1	83.8
85°	0.0	0.0	0.0	0.7	3.7	5.9	11.0	16.2	23.5	32.4	39.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.6
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: P634245

CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1545.8	1527.4	1526.0	1511.3	1512.7	1513.5	1498.8	1492.9	1498.0	1503.9	1501.0
5°	1478.2	1459.1	1451.0	1437.0	1435.5	1428.9	1423.0	1415.7	1420.8	1426.0	1428.9
7.5°	1419.3	1406.8	1401.7	1398.0	1399.5	1396.5	1384.8	1378.2	1377.4	1379.6	1382.6
10°	1400.2	1389.9	1396.5	1406.8	1414.2	1419.3	1406.8	1395.8	1385.5	1381.1	1381.1
12.5°	1441.4	1428.2	1441.4	1452.4	1467.1	1470.8	1456.8	1445.1	1441.4	1445.8	1454.6
15°	1532.6	1501.7	1501.0	1507.6	1519.4	1525.2	1512.0	1506.1	1506.1	1534.1	1556.1
17.5°	1623.8	1573.0	1551.7	1548.0	1555.4	1557.6	1546.6	1541.4	1554.7	1609.1	1650.3
20°	1687.8	1626.0	1579.7	1570.8	1573.0	1573.8	1565.0	1561.3	1580.4	1646.6	1681.1
22.5°	1681.1	1635.6	1578.9	1567.9	1571.6	1570.1	1562.0	1560.5	1576.0	1633.3	1649.5
25°	1635.6	1600.3	1552.5	1545.1	1551.0	1550.2	1542.2	1538.5	1545.1	1583.3	1584.8
27.5°	1583.3	1552.5	1511.3	1509.1	1518.6	1523.8	1509.8	1498.8	1496.6	1522.3	1516.4
30°	1520.8	1498.0	1464.9	1466.4	1484.1	1487.0	1470.1	1453.9	1449.5	1463.5	1455.4
32.5°	1446.6	1439.2	1421.5	1425.2	1442.1	1448.0	1430.4	1413.5	1408.3	1412.7	1395.8
35°	1383.3	1380.4	1381.8	1388.5	1403.2	1407.6	1392.9	1379.6	1372.3	1356.8	1334.8
37.5°	1317.9	1325.9	1347.3	1359.8	1367.9	1366.4	1358.3	1348.7	1337.0	1308.3	1281.1
40°	1256.8	1277.4	1315.7	1329.6	1332.6	1333.3	1327.4	1319.3	1304.6	1266.4	1235.5
42.5°	1209.8	1232.5	1283.3	1304.6	1306.1	1307.6	1301.7	1295.1	1274.5	1223.7	1193.6
45°	1160.5	1190.6	1250.2	1275.9	1274.5	1273.7	1268.6	1265.6	1241.4	1182.5	1149.4
47.5°	1118.6	1153.9	1217.8	1239.9	1239.2	1238.4	1234.8	1234.8	1210.5	1146.5	1109.0
50°	1077.4	1117.8	1184.7	1203.1	1204.6	1203.1	1201.7	1203.9	1175.2	1106.8	1070.0
52.5°	1032.5	1078.1	1148.0	1164.9	1173.7	1177.4	1177.4	1172.2	1138.4	1067.1	1026.6
55°	983.2	1026.6	1107.5	1130.3	1137.7	1144.3	1144.3	1134.0	1102.4	1030.3	986.9
57.5°	922.2	960.4	1024.4	1047.2	1064.9	1069.3	1069.3	1052.4	1026.6	957.5	922.2
60°	856.0	889.1	932.5	956.8	970.0	961.2	967.8	963.4	942.8	878.8	849.4
62.5°	767.8	801.6	849.4	874.4	880.3	871.5	880.3	879.6	851.6	794.2	758.9
65°	704.5	737.6	784.7	817.0	826.6	824.4	830.3	821.5	786.9	732.5	698.6
67.5°	629.5	664.8	719.2	755.3	775.1	777.3	785.4	767.0	731.7	672.2	629.5
70°	558.2	588.3	630.2	664.1	692.0	706.0	707.5	681.0	636.9	587.6	556.7
72.5°	483.2	514.1	564.8	601.6	636.9	653.0	653.0	620.7	572.9	518.5	485.4
75°	392.0	420.7	467.0	506.7	547.1	567.7	567.0	539.1	486.1	434.6	400.1
77.5°	265.5	286.8	316.2	346.4	352.3	368.4	376.5	341.2	311.8	283.9	253.0
80°	154.4	167.7	183.9	200.8	204.4	209.6	196.4	183.1	167.7	149.3	135.3
82.5°	90.5	99.3	107.4	120.6	122.8	124.3	112.5	106.6	94.1	83.1	74.3
85°	44.1	47.1	54.4	61.0	58.1	56.6	51.5	45.6	40.4	36.0	31.6
87.5°	8.8	8.8	13.2	12.5	10.3	8.8	5.1	6.6	1.5	1.5	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: P634245

CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1510.5	1523.0	1538.5	1559.1	1582.6	1607.6	1631.9	1650.3	1668.6	1695.9	1691.4
5°	1433.3	1454.6	1478.9	1510.5	1548.8	1592.2	1640.7	1689.2	1741.5	1785.6	1804.7
7.5°	1388.5	1412.0	1440.7	1481.9	1531.1	1584.1	1652.5	1731.2	1815.7	1873.8	1909.9
10°	1388.5	1418.6	1456.1	1495.8	1539.2	1593.6	1678.2	1776.8	1885.6	1962.1	2004.0
12.5°	1468.6	1498.8	1506.9	1505.4	1529.7	1590.0	1698.8	1824.6	1954.7	2035.6	2087.1
15°	1593.6	1603.9	1542.9	1487.0	1490.7	1563.5	1708.4	1862.8	2014.3	2111.4	2167.3
17.5°	1677.5	1650.3	1541.4	1443.6	1423.0	1518.6	1708.4	1899.6	2077.5	2187.1	2239.3
20°	1684.1	1616.4	1503.9	1401.7	1348.7	1459.1	1696.6	1927.5	2138.6	2259.9	2315.8
22.5°	1626.0	1559.1	1464.2	1365.7	1287.7	1387.0	1677.5	1948.8	2190.8	2328.3	2397.4
25°	1559.8	1503.9	1423.8	1328.9	1245.8	1314.2	1659.8	1984.9	2263.6	2421.0	2490.8
27.5°	1495.1	1448.0	1375.2	1298.0	1222.3	1250.9	1648.8	2037.8	2350.4	2552.6	2612.9
30°	1431.8	1389.2	1323.0	1268.6	1209.8	1209.8	1639.2	2098.9	2465.1	2700.4	2760.7
32.5°	1367.9	1327.4	1273.7	1239.9	1202.4	1193.6	1612.8	2156.2	2583.5	2862.2	2924.0
35°	1308.3	1267.8	1226.7	1212.7	1198.7	1181.1	1547.3	2201.1	2699.0	3051.2	3104.2
37.5°	1252.4	1213.4	1182.5	1178.9	1180.3	1147.2	1444.3	2238.6	2843.1	3244.6	3272.6
40°	1203.9	1160.5	1136.2	1135.5	1142.8	1092.8	1314.2	2292.3	3007.8	3408.6	3396.9
42.5°	1160.5	1114.9	1085.5	1092.1	1087.7	1038.4	1187.0	2341.5	3151.2	3562.3	3538.8
45°	1117.8	1073.7	1032.5	1042.1	1036.9	1004.6	1078.8	2377.6	3310.1	3746.9	3749.9
47.5°	1076.6	1033.3	992.1	980.3	979.6	994.3	995.7	2389.4	3568.9	4044.0	3977.1
50°	1038.4	995.0	952.4	912.6	928.1	973.7	934.0	2380.5	3956.5	4372.0	4185.2
52.5°	998.7	957.5	910.4	839.1	879.6	924.4	878.8	2348.9	4193.3	4661.8	4550.0
55°	953.1	914.1	850.1	763.4	812.6	822.2	822.2	2043.0	4294.1	4948.6	5017.7
57.5°	892.1	840.6	739.1	669.2	713.3	676.6	761.9	1429.6	4127.9	4858.1	5126.6
60°	822.9	767.8	660.4	610.4	623.6	558.9	649.4	896.5	3421.1	4133.7	4598.5
62.5°	731.7	681.0	592.0	553.0	525.8	456.0	522.9	567.0	2345.2	3069.6	3386.6
65°	670.7	614.8	535.4	483.9	428.0	367.0	347.1	372.1	1261.2	1717.9	1931.9
67.5°	598.6	543.5	468.5	403.7	358.9	314.8	280.2	271.4	432.4	572.1	619.2
70°	530.2	477.3	414.8	354.5	309.6	266.2	232.4	208.1	200.0	198.6	195.6
72.5°	460.4	411.1	358.9	303.0	253.7	214.0	183.9	155.9	144.1	140.5	136.8
75°	377.3	338.3	286.1	225.8	186.1	149.3	125.8	107.4	97.1	93.4	89.0
77.5°	242.7	225.0	179.4	145.6	112.5	89.0	76.5	64.7	58.1	56.6	52.9
80°	129.4	120.6	99.3	83.8	66.9	54.4	47.8	41.2	37.5	36.0	34.6
82.5°	72.1	65.5	55.2	48.5	39.0	33.1	29.4	26.5	24.3	23.5	22.8
85°	32.4	27.9	22.1	20.6	18.4	16.9	16.2	14.7	14.0	13.2	12.5
87.5°	1.5	2.9	3.7	2.9	2.9	4.4	5.1	5.1	4.4	4.4	3.7
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: P634245

CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1718.7	1740.7	1742.9	1750.3	1740.7	1738.5	1723.1	1714.2	1706.2	1703.9
5°	1852.5	1896.6	1914.3	1926.8	1915.0	1909.1	1875.3	1840.0	1820.1	1810.6
7.5°	1990.0	2056.2	2090.8	2106.2	2107.7	2081.2	2023.1	1956.9	1923.8	1911.3
10°	2112.8	2194.5	2240.1	2269.5	2259.2	2226.8	2147.4	2057.7	2015.8	2004.7
12.5°	2204.0	2282.0	2317.3	2336.4	2335.7	2318.0	2243.0	2145.9	2098.1	2087.1
15°	2262.9	2309.2	2311.4	2315.8	2328.3	2351.8	2312.9	2223.1	2170.2	2154.8
17.5°	2309.2	2290.8	2256.2	2244.5	2272.4	2337.9	2361.4	2288.6	2231.2	2218.0
20°	2338.6	2245.9	2184.9	2162.1	2194.5	2301.1	2390.8	2347.4	2287.9	2270.9
22.5°	2361.4	2204.0	2105.5	2090.0	2123.9	2261.4	2421.0	2417.3	2351.8	2328.3
25°	2397.4	2176.1	2049.6	2038.6	2070.2	2242.3	2461.4	2512.2	2454.1	2420.2
27.5°	2454.1	2173.1	2020.9	2017.2	2060.6	2259.2	2519.5	2651.2	2578.4	2553.3
30°	2532.8	2201.1	2027.5	2034.9	2087.8	2320.2	2610.0	2810.0	2737.2	2698.2
32.5°	2646.0	2276.1	2128.3	2159.9	2198.9	2418.0	2742.3	2982.1	2926.9	2869.6
35°	2795.3	2482.0	2426.1	2560.7	2523.9	2632.0	2901.9	3190.9	3124.0	3074.0
37.5°	2994.6	2904.1	2955.6	3140.9	3052.0	3036.5	3096.8	3380.7	3343.9	3293.9
40°	3274.0	3292.4	3387.3	3630.7	3502.0	3402.7	3335.8	3523.4	3535.9	3474.1
42.5°	3459.4	3543.9	3772.7	4049.2	3871.9	3634.4	3535.9	3705.7	3706.5	3650.6
45°	3528.5	3749.9	4227.9	4546.3	4249.9	3766.8	3646.2	3953.6	3946.2	3882.2
47.5°	3503.5	3923.4	4700.7	5187.6	4735.3	3860.9	3630.7	4306.6	4366.1	4269.1
50°	3451.3	4097.7	5253.0	5973.0	5331.0	3960.9	3607.2	4697.8	4796.4	4721.3
52.5°	3504.2	4291.9	5906.1	6784.9	6078.2	4120.5	3766.0	5200.1	5182.4	5092.0
55°	3671.9	4521.3	6699.6	7804.9	6898.9	4390.4	4174.2	5678.8	5499.4	5391.3
57.5°	3663.8	4685.3	7395.3	8611.7	7613.0	4611.8	4316.1	5729.6	5367.0	5230.2
60°	3325.5	4610.3	7660.0	9122.0	7828.5	4489.7	3849.1	5117.7	4528.7	4385.3
62.5°	2482.0	4091.1	7146.7	8483.0	7218.8	3877.8	2894.6	3673.4	3254.2	3012.2
65°	1587.8	3200.5	6008.3	6872.4	5950.2	2965.9	1723.8	1969.4	1542.9	1473.8
67.5°	675.8	2259.2	4670.6	4593.4	4451.4	1921.6	665.5	554.5	413.3	405.9
70°	223.6	1537.0	2879.1	3063.7	2658.5	1323.7	219.9	186.1	185.3	178.7
72.5°	146.3	825.1	1620.8	1804.7	1710.6	761.9	133.1	124.3	127.2	124.3
75°	87.5	179.4	272.8	354.5	272.8	128.0	80.2	78.7	80.2	76.5
77.5°	51.5	50.0	48.5	48.5	47.8	44.1	40.4	39.0	39.7	40.4
80°	33.1	31.6	30.2	29.4	25.7	24.3	22.8	21.3	21.3	22.1
82.5°	21.3	19.9	18.4	16.2	13.2	11.0	10.3	8.8	8.8	9.6
85°	11.0	8.8	6.6	5.1	2.9	1.5	0.0	0.0	0.0	0.0
87.5°	2.2	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)