

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: P639194

Luminaire Tested: GWS-SA5B-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9390.5 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

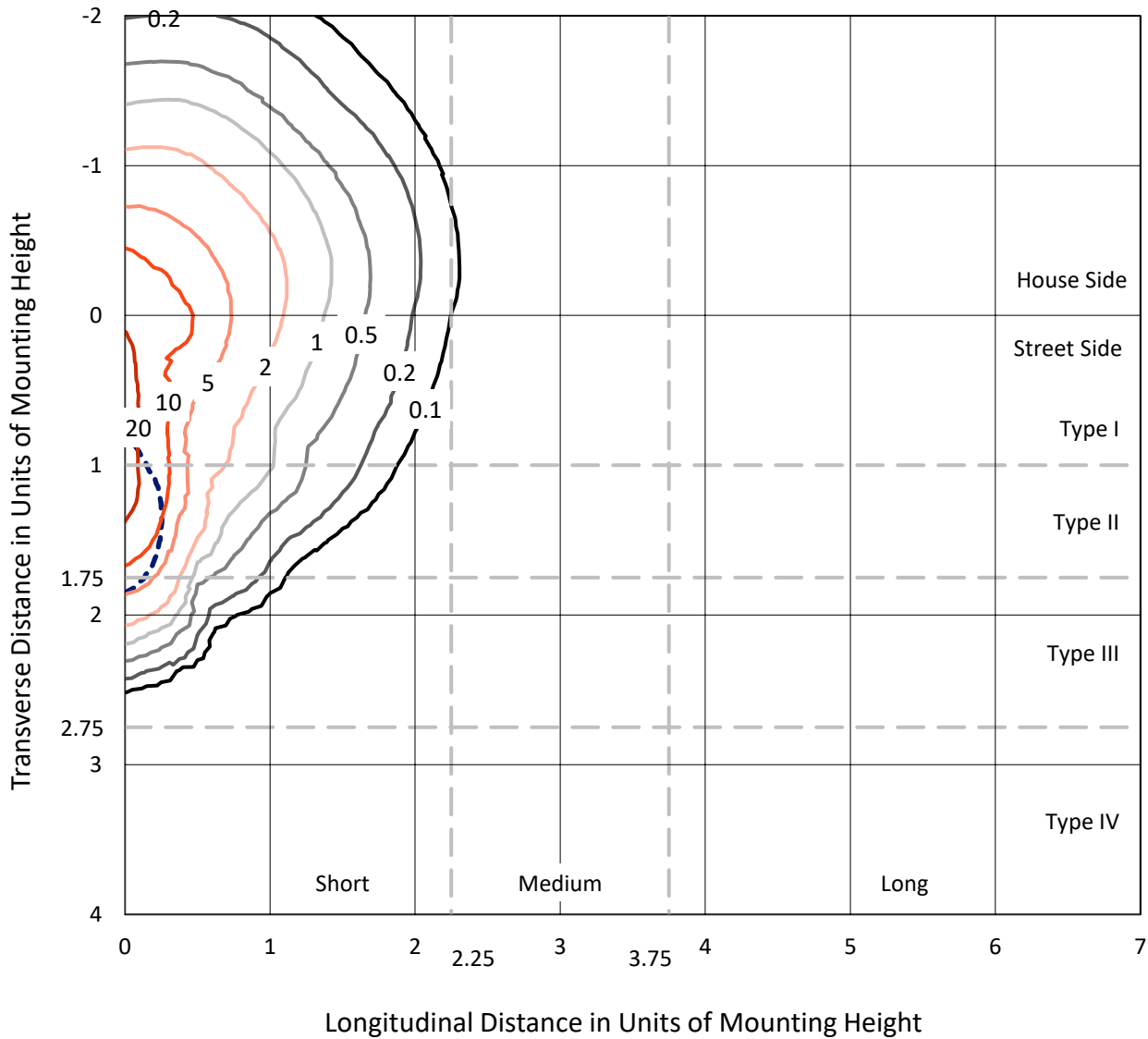
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639194
 CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

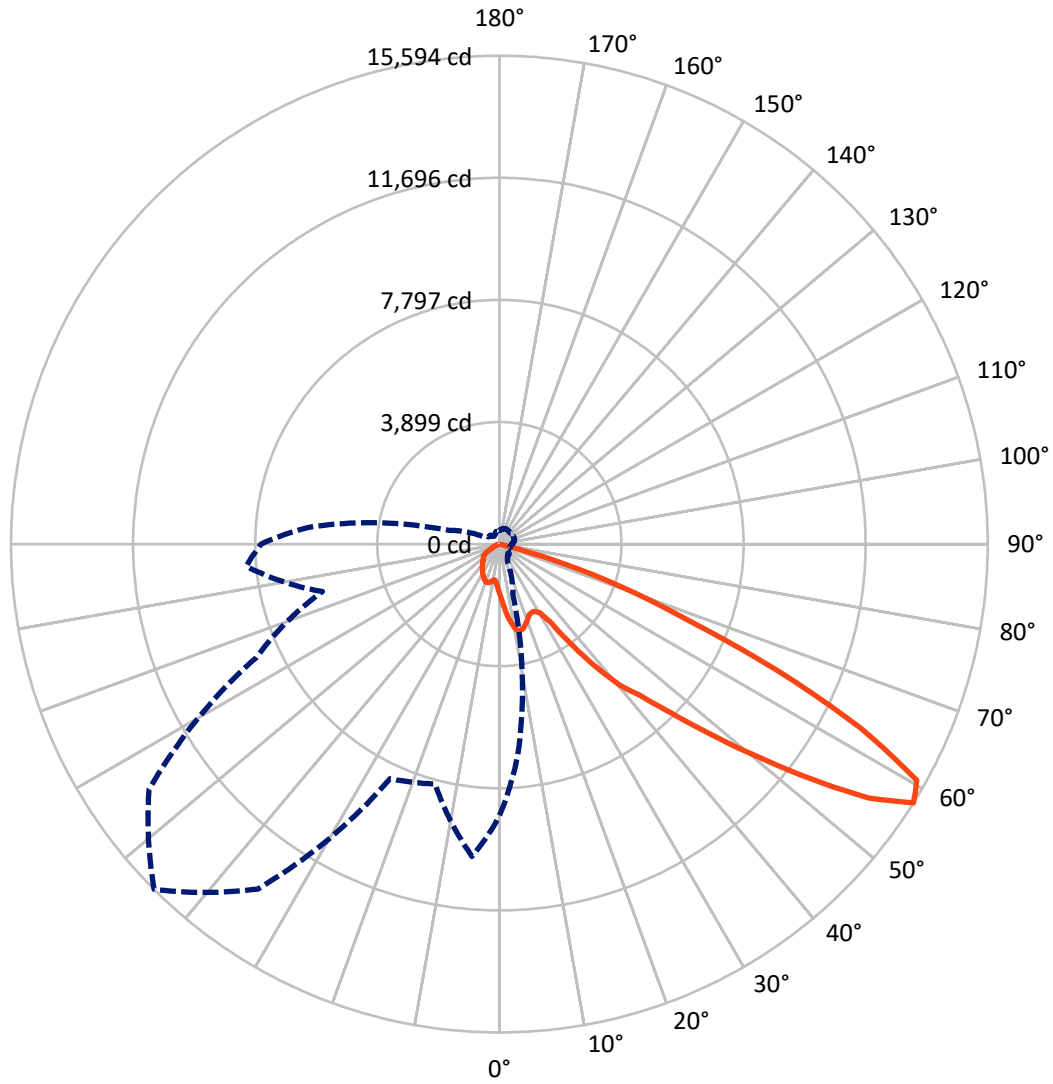
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 fc
 Type III - Short - N/A

REPORT NUMBER: P639194
CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P639194

CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

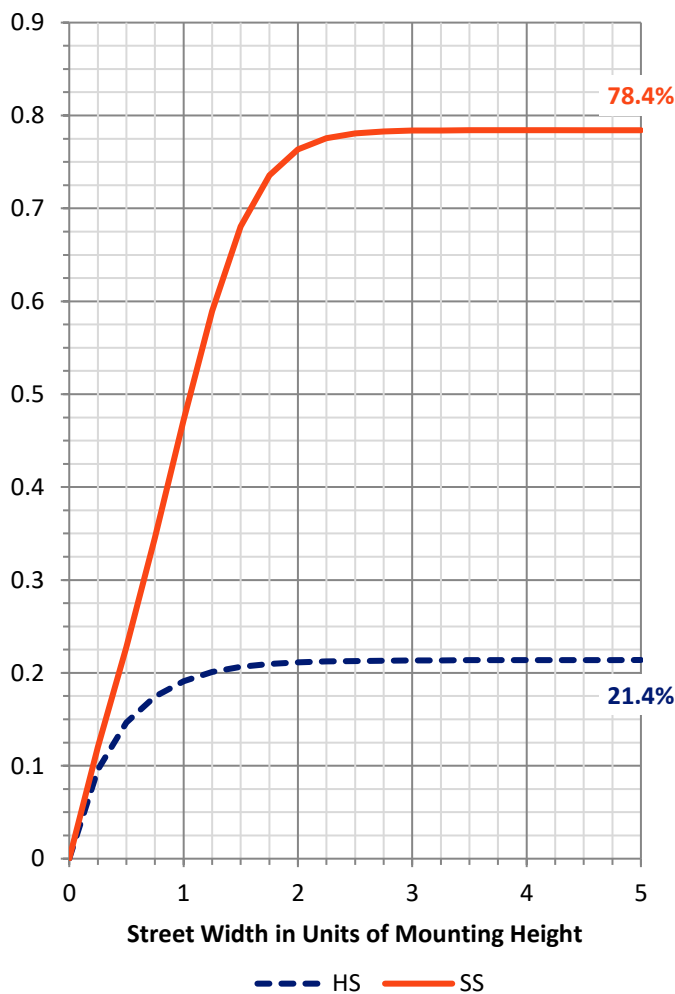
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2023.0	0.0	2023.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7367.5	0.0	7367.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	9390.5	0.0	9390.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	1.7
10°-20°	518.9	5.5
20°-30°	842.2	9.0
30°-40°	1292.5	13.8
40°-50°	2064.2	22.0
50°-60°	2890.3	30.8
60°-70°	1481.9	15.8
70°-80°	142.7	1.5
80°-90°	0.0	0.0
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°	9390.5	100.0
0°-180°	9390.5	100.0

Coefficient of Utilization



REPORT NUMBER: P639194

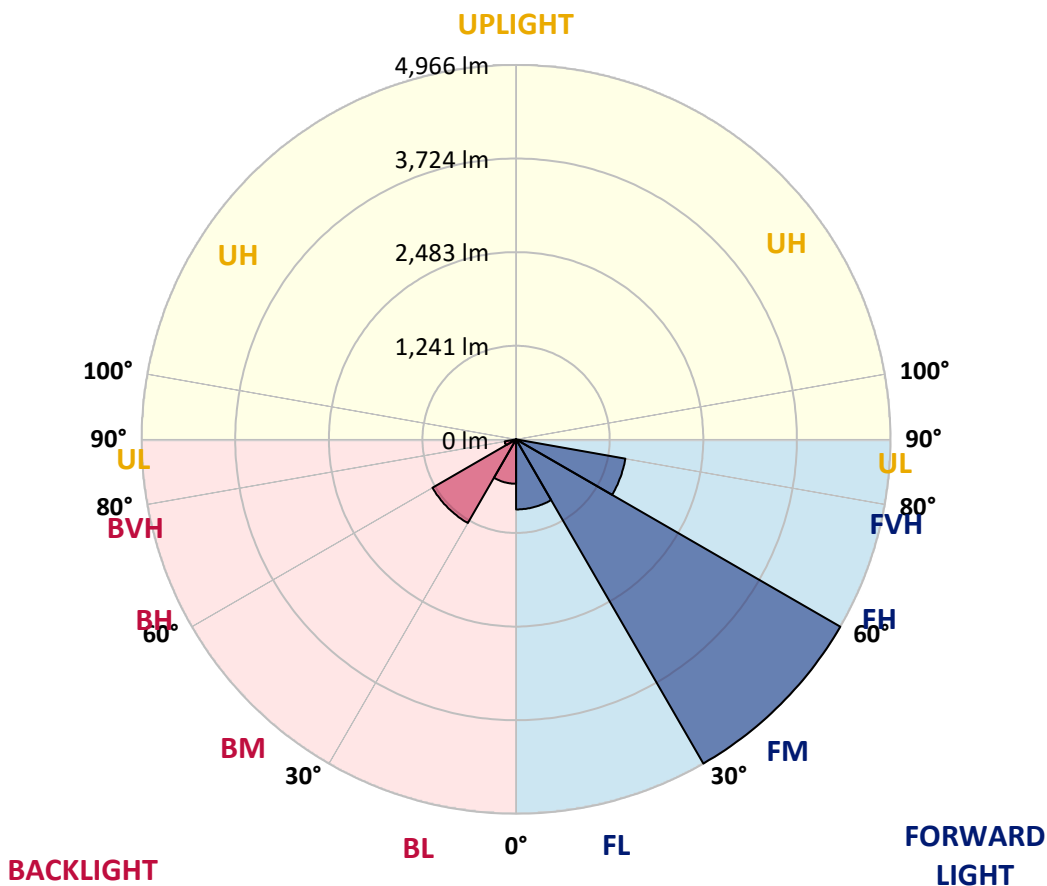
CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.7	9.9			
FM (30°-60°)	4965.9	52.9			
FH (60°-80°)	1471.8	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	589.1	6.3	B2/1000		
BM (30°-60°)	1281.2	13.6	B2/2500		
BH (60°-80°)	152.8	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





REPORT NUMBER: P639194

CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6
2.5°	1772.6	1768.8	1756.3	1713.6	1687.2	1645.8	1615.7	1576.8	1534.1	1507.7	1481.3
5°	1960.9	1950.9	1917.0	1819.0	1743.7	1662.1	1596.8	1525.3	1448.7	1398.5	1352.0
7.5°	2141.7	2126.6	2081.4	1915.7	1801.5	1684.7	1591.8	1487.6	1379.7	1304.3	1246.6
10°	2318.7	2284.8	2213.2	2009.9	1855.4	1714.8	1605.6	1486.4	1359.6	1264.2	1200.1
12.5°	2464.3	2439.2	2341.3	2099.0	1900.6	1721.1	1586.8	1476.3	1391.0	1326.9	1267.9
15°	2589.8	2562.2	2469.3	2179.3	1939.6	1696.0	1507.7	1411.0	1424.9	1450.0	1399.7
17.5°	2705.3	2676.5	2576.0	2245.9	1954.6	1634.5	1397.2	1350.8	1427.4	1521.5	1502.7
20°	2824.6	2792.0	2668.9	2299.9	1949.6	1537.8	1285.5	1299.3	1407.3	1515.2	1525.3
22.5°	2963.9	2930.1	2786.9	2368.9	1945.8	1422.3	1188.8	1254.1	1369.6	1461.3	1478.8
25°	3148.5	3108.3	2951.4	2470.6	1955.9	1316.9	1119.8	1210.2	1305.6	1388.4	1398.5
27.5°	3392.0	3340.6	3141.0	2596.1	1977.2	1234.0	1089.7	1149.9	1224.0	1298.1	1306.8
30°	3709.6	3644.4	3358.1	2705.3	1967.2	1176.3	1069.6	1089.7	1133.6	1193.9	1195.1
32.5°	4081.2	3992.1	3601.7	2799.5	1880.6	1133.6	1042.0	1028.2	1038.2	1084.6	1093.4
35°	4518.1	4402.6	3870.3	2888.6	1722.4	1050.8	991.7	945.3	941.5	964.1	985.5
37.5°	5019.0	4880.9	4209.3	3002.9	1535.3	964.1	917.7	871.2	851.1	862.4	895.1
40°	5481.0	5327.8	4563.3	3141.0	1344.5	886.3	831.1	783.4	759.5	763.3	803.4
42.5°	6023.3	5865.1	4996.4	3321.7	1186.3	833.6	740.7	691.7	660.3	677.9	724.4
45°	6846.8	6667.3	5627.9	3478.7	1060.8	821.0	661.6	592.5	577.5	607.6	662.8
47.5°	7971.6	7752.0	6495.3	3574.1	954.1	832.3	606.3	512.2	516.0	549.9	605.1
50°	9087.7	8850.4	7498.4	3448.5	866.2	809.7	578.7	449.4	473.3	503.4	553.6
52.5°	9854.7	9545.9	7986.7	3085.7	785.9	724.4	576.2	390.4	435.6	445.7	488.3
55°	9884.8	9504.5	7736.9	2432.9	676.6	611.4	549.9	341.5	394.2	398.0	434.4
57.5°	8664.6	8320.6	6761.5	1670.9	601.3	448.2	438.1	298.8	323.9	355.3	377.9
60°	6592.0	6299.5	5056.7	765.8	457.0	285.0	300.0	257.4	242.3	288.7	311.3
62.5°	4037.3	3850.2	3033.0	339.0	291.2	151.9	182.0	204.6	182.0	199.6	218.4
65°	1603.1	1520.3	1151.2	144.4	119.3	76.6	82.9	119.3	128.0	140.6	158.2
67.5°	278.7	263.6	193.3	64.0	49.0	46.4	40.2	55.2	77.8	86.6	100.4
70°	36.4	35.2	31.4	26.4	25.1	22.6	17.6	35.2	52.7	55.2	64.0
72.5°	8.8	7.5	7.5	6.3	7.5	2.5	2.5	18.8	37.7	38.9	45.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	23.9	26.4	31.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P639194

CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6
2.5°	1460.0	1434.9	1426.1	1413.6	1397.2	1402.3	1379.7	1372.1	1383.4	1398.5	1394.7
5°	1326.9	1299.3	1280.5	1251.6	1246.6	1235.3	1227.8	1217.7	1230.3	1247.8	1251.6
7.5°	1221.5	1197.6	1178.8	1170.0	1163.7	1158.7	1143.6	1136.1	1136.1	1143.6	1149.9
10°	1176.3	1158.7	1154.9	1157.5	1167.5	1166.2	1152.4	1142.4	1129.8	1123.6	1131.1
12.5°	1239.1	1210.2	1205.2	1206.4	1219.0	1217.7	1202.7	1190.1	1187.6	1190.1	1214.0
15°	1345.8	1301.8	1269.2	1262.9	1269.2	1266.7	1255.4	1247.8	1251.6	1288.0	1328.2
17.5°	1441.2	1373.4	1314.4	1291.8	1290.5	1286.8	1275.5	1273.0	1291.8	1359.6	1418.6
20°	1468.8	1402.3	1318.1	1289.3	1283.0	1279.2	1266.7	1270.4	1294.3	1375.9	1426.1
22.5°	1432.4	1368.4	1280.5	1251.6	1246.6	1245.3	1232.8	1237.8	1257.9	1329.4	1370.9
25°	1363.3	1309.4	1217.7	1192.6	1192.6	1190.1	1178.8	1181.3	1193.9	1256.6	1296.8
27.5°	1279.2	1227.8	1151.2	1126.1	1129.8	1133.6	1119.8	1116.0	1126.1	1185.1	1208.9
30°	1182.6	1146.2	1085.9	1063.3	1062.0	1077.1	1058.3	1053.3	1067.1	1113.5	1118.5
32.5°	1088.4	1070.8	1028.2	1010.6	1011.8	1014.3	1004.3	1004.3	1016.9	1042.0	1040.7
35°	996.8	985.5	977.9	965.4	964.1	959.1	959.1	961.6	975.4	984.2	967.9
37.5°	908.9	920.2	929.0	916.4	906.4	906.4	906.4	917.7	930.2	926.5	898.9
40°	831.1	854.9	882.5	868.7	844.9	843.6	848.6	867.5	886.3	863.7	838.6
42.5°	764.5	794.7	833.6	826.0	799.7	795.9	799.7	823.5	838.6	809.7	782.1
45°	699.2	736.9	783.4	783.4	754.5	750.7	752.0	783.4	792.1	758.2	723.1
47.5°	644.0	685.4	734.4	734.4	710.5	703.0	709.3	741.9	748.2	700.5	667.9
50°	591.3	636.5	690.5	686.7	670.4	664.1	675.4	710.5	703.0	650.3	616.4
52.5°	524.7	572.5	646.5	650.3	641.5	642.8	656.6	679.2	657.8	593.8	564.9
55°	464.5	513.4	587.5	607.6	607.6	606.3	612.6	630.2	612.6	536.0	500.9
57.5°	399.2	440.6	502.2	507.2	510.9	497.1	505.9	529.8	521.0	455.7	435.6
60°	327.7	362.8	398.0	401.7	385.4	356.5	372.8	400.5	406.7	357.8	335.2
62.5°	232.2	266.1	307.6	307.6	291.2	262.4	283.7	307.6	298.8	248.6	234.8
65°	173.2	204.6	236.0	249.8	236.0	215.9	232.2	249.8	236.0	194.6	174.5
67.5°	111.7	133.1	151.9	163.2	165.7	163.2	170.7	165.7	149.4	121.8	110.5
70°	67.8	79.1	89.1	99.2	106.7	110.5	114.2	102.9	86.6	71.6	67.8
72.5°	49.0	59.0	67.8	75.3	84.1	86.6	86.6	79.1	64.0	50.2	46.4
75°	33.9	42.7	50.2	55.2	62.8	65.3	65.3	59.0	47.7	36.4	32.6
77.5°	1.3	8.8	8.8	7.5	10.0	12.6	12.6	15.1	13.8	10.0	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P639194

CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6
2.5°	1402.3	1447.5	1460.0	1506.5	1547.9	1589.3	1639.5	1669.7	1714.8	1746.2	1763.8
5°	1264.2	1301.8	1347.0	1416.1	1487.6	1566.7	1662.1	1745.0	1849.2	1925.7	1950.9
7.5°	1163.7	1212.7	1265.4	1352.0	1450.0	1555.4	1689.7	1825.3	1984.8	2088.9	2155.5
10°	1144.9	1195.1	1265.4	1350.8	1453.7	1574.2	1738.7	1914.5	2114.1	2240.8	2316.2
12.5°	1235.3	1289.3	1319.4	1358.3	1436.2	1570.5	1781.4	2004.8	2239.6	2377.7	2458.0
15°	1368.4	1416.1	1367.1	1318.1	1368.4	1530.3	1805.2	2080.2	2350.1	2509.5	2592.4
17.5°	1460.0	1463.8	1357.1	1252.9	1266.7	1457.5	1814.0	2155.5	2468.1	2635.0	2721.7
20°	1451.2	1421.1	1313.1	1197.6	1154.9	1363.3	1804.0	2222.0	2587.3	2761.8	2847.2
22.5°	1383.4	1348.3	1256.6	1143.6	1060.8	1251.6	1786.4	2282.3	2696.6	2894.9	2975.2
25°	1301.8	1264.2	1188.8	1089.7	1000.5	1143.6	1772.6	2365.1	2834.6	3068.1	3130.9
27.5°	1206.4	1173.8	1109.8	1038.2	975.4	1062.0	1768.8	2474.3	3001.6	3279.0	3323.0
30°	1113.5	1083.4	1033.2	991.7	965.4	1014.3	1756.3	2591.1	3201.2	3521.3	3569.0
32.5°	1024.4	994.3	962.9	956.6	957.9	996.8	1713.6	2706.6	3438.5	3872.8	3908.0
35°	947.8	912.7	900.1	915.2	942.8	966.6	1593.1	2802.0	3693.3	4255.7	4284.6
37.5°	875.0	839.8	838.6	875.0	905.1	920.2	1451.2	2896.2	4037.3	4644.9	4681.3
40°	808.5	773.3	785.9	829.8	853.7	861.2	1279.2	3039.3	4401.4	5055.4	5035.3
42.5°	752.0	715.6	723.1	779.6	800.9	821.0	1121.1	3158.5	4751.6	5444.6	5438.3
45°	696.7	669.1	664.1	725.6	744.4	824.8	1005.6	3250.2	5202.3	5940.4	5950.5
47.5°	642.8	621.4	622.7	649.0	695.5	843.6	907.6	3310.4	5856.3	6726.3	6551.8
50°	593.8	577.5	591.3	561.2	664.1	819.8	823.5	3297.9	6587.0	7479.5	7129.3
52.5°	539.8	536.0	542.3	469.5	613.9	723.1	744.4	3130.9	6929.7	7994.2	7794.6
55°	484.6	483.3	433.1	375.4	513.4	577.5	637.7	2612.4	6918.4	8267.9	8510.2
57.5°	419.3	409.3	328.9	306.3	399.2	401.7	581.2	1711.1	6131.3	7612.6	8114.8
60°	317.6	310.1	241.0	248.6	278.7	257.4	463.2	852.4	4582.1	5930.4	6496.6
62.5°	219.7	209.6	179.5	192.1	179.5	146.9	283.7	421.8	2775.6	3744.8	4258.2
65°	160.7	149.4	123.0	105.5	84.1	84.1	108.0	161.9	1074.6	1591.8	1919.5
67.5°	99.2	94.2	72.8	52.7	51.5	55.2	56.5	80.3	173.2	276.2	337.7
70°	64.0	59.0	49.0	33.9	31.4	32.6	33.9	37.7	43.9	47.7	57.7
72.5°	43.9	41.4	35.2	18.8	15.1	16.3	17.6	17.6	21.3	20.1	23.9
75°	31.4	28.9	25.1	8.8	5.0	6.3	7.5	6.3	7.5	5.0	6.3
77.5°	8.8	8.8	6.3	1.3	0.0	1.3	2.5	2.5	1.3	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P639194

CATALOG NUMBER: GWS-SA5B-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6
2.5°	1809.0	1837.9	1849.2	1832.9	1846.7	1824.1	1815.3	1781.4	1778.9	1772.6
5°	2052.5	2117.8	2156.7	2180.6	2153.0	2122.8	2077.7	1999.8	1976.0	1960.9
7.5°	2292.3	2394.0	2460.5	2491.9	2484.4	2422.9	2341.3	2210.7	2164.3	2141.7
10°	2500.7	2625.0	2705.3	2744.3	2727.9	2674.0	2557.2	2394.0	2332.5	2318.7
12.5°	2646.3	2760.6	2815.8	2849.7	2851.0	2829.6	2719.1	2554.7	2481.9	2464.3
15°	2738.0	2786.9	2788.2	2808.3	2843.4	2891.1	2839.7	2694.0	2616.2	2589.8
17.5°	2795.7	2741.7	2686.5	2691.5	2749.3	2876.1	2928.8	2817.1	2734.2	2705.3
20°	2837.2	2666.4	2563.5	2564.7	2623.7	2815.8	2990.3	2936.3	2851.0	2824.6
22.5°	2863.5	2599.9	2453.0	2449.2	2512.0	2744.3	3046.8	3078.2	2994.1	2963.9
25°	2917.5	2568.5	2386.5	2407.8	2463.1	2721.7	3123.4	3266.5	3188.7	3148.5
27.5°	3014.2	2599.9	2380.2	2429.2	2491.9	2788.2	3256.4	3517.6	3437.2	3392.0
30°	3181.1	2717.9	2476.9	2544.7	2620.0	2962.7	3479.9	3867.8	3752.3	3709.6
32.5°	3449.8	2962.7	2775.6	2921.3	2994.1	3248.9	3815.1	4260.8	4166.6	4081.2
35°	3820.1	3521.3	3500.0	3838.9	3821.4	3791.2	4226.9	4742.8	4601.0	4518.1
37.5°	4329.8	4420.2	4578.4	4914.8	4903.5	4673.8	4767.9	5198.5	5125.7	5019.0
40°	4966.3	5158.3	5427.0	5909.1	5758.4	5469.7	5432.0	5665.5	5606.5	5481.0
42.5°	5341.6	5673.1	6185.2	6618.4	6497.8	5993.2	5950.5	6289.4	6160.1	6023.3
45°	5516.1	6092.3	7096.7	7682.9	7317.6	6340.9	6324.6	7102.9	7030.1	6846.8
47.5°	5596.5	6515.4	8163.7	9051.3	8368.3	6646.0	6587.0	8283.0	8187.6	7971.6
50°	5685.6	7099.2	9449.2	10636.8	9637.5	6991.2	7033.9	9382.7	9342.5	9087.7
52.5°	5881.4	7716.8	11032.3	12449.6	11176.6	7532.3	7800.9	10419.6	10148.5	9854.7
55°	6175.2	8389.7	12679.3	14301.3	12747.1	8259.1	8630.7	10970.7	10210.0	9884.8
57.5°	5850.1	8557.9	13654.7	15594.3	13443.8	8261.6	7929.0	10015.4	8979.7	8664.6
60°	4642.4	7961.6	13279.4	15314.4	12850.0	7336.4	6071.0	7819.7	6802.9	6592.0
62.5°	3138.4	6677.4	11690.1	12951.7	10998.4	5771.0	3945.7	5085.5	4211.8	4037.3
65°	1719.9	4981.3	9445.5	9798.2	8608.1	4031.0	2029.9	2207.0	1681.0	1603.1
67.5°	474.5	3467.4	6949.8	6500.3	6039.6	2625.0	524.7	394.2	281.2	278.7
70°	119.3	2293.6	4164.1	4292.1	3703.4	1681.0	100.4	47.7	37.7	36.4
72.5°	50.2	986.7	1976.0	2271.0	1895.6	778.3	36.4	13.8	11.3	8.8
75°	6.3	79.1	168.2	254.8	174.5	84.1	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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)