

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: P631770

Luminaire Tested: GWS-SA2B-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631770  
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-SA2B-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**

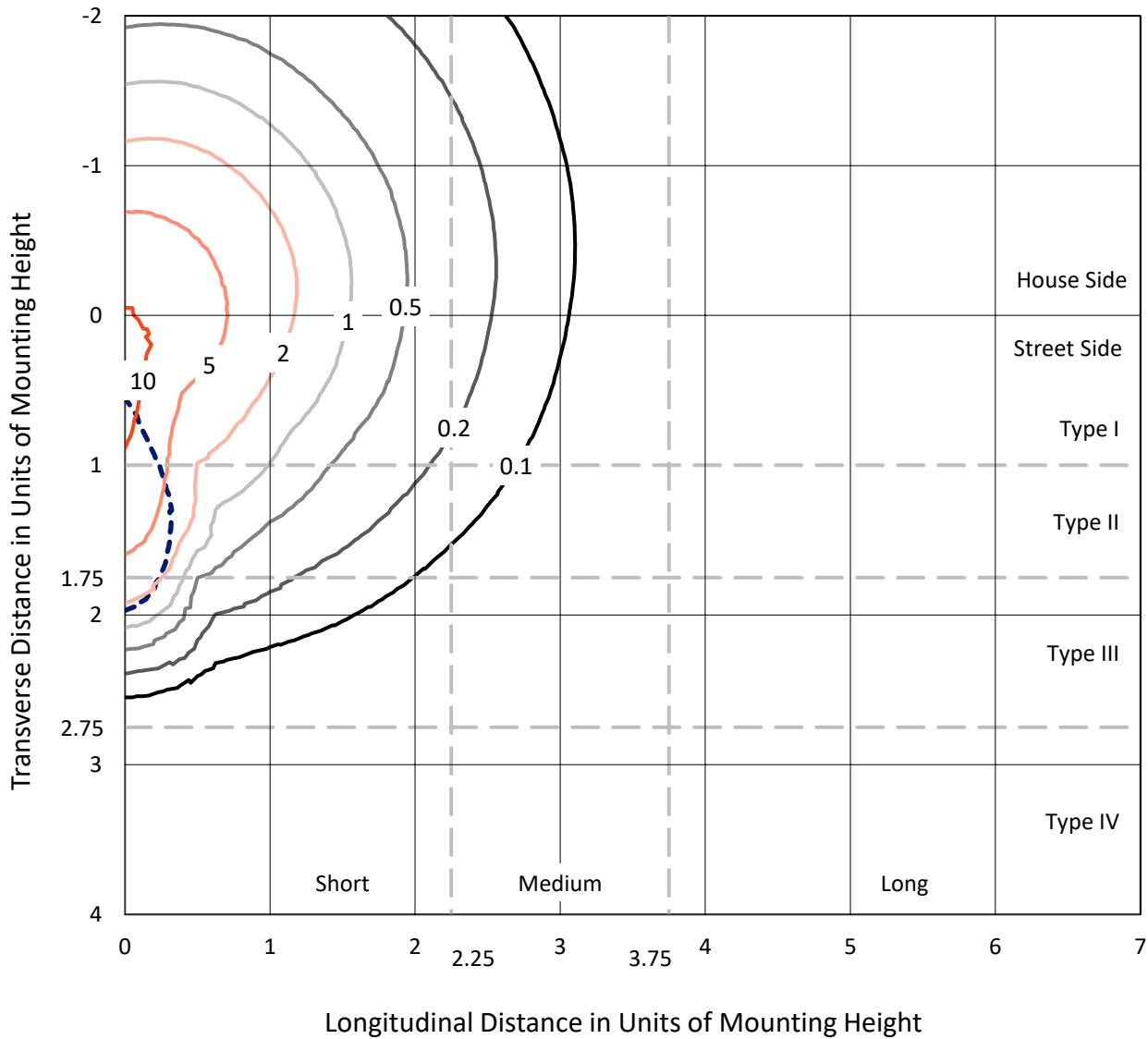
Lumens per Lamp: N/A  
Luminaire Lumens: 5298.1 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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: P631770  
 CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

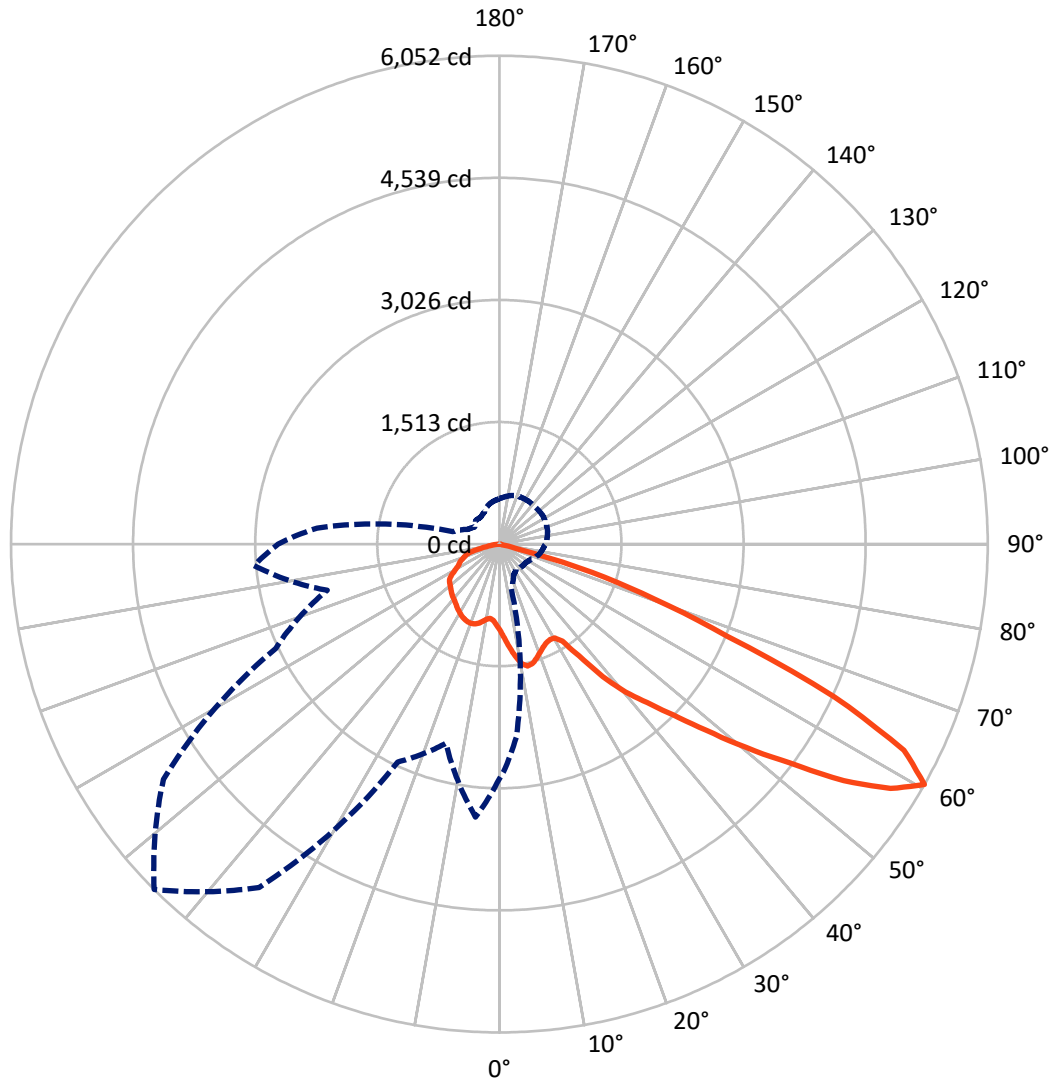
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P631770  
CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P631770

CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1812.4	0.0	1812.4
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	3485.7	0.0	3485.7
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	5298.1	0.0	5298.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.4	2.0
10°-20°	334.9	6.3
20°-30°	545.3	10.3
30°-40°	766.1	14.5
40°-50°	1048.3	19.8
50°-60°	1345.0	25.4
60°-70°	905.6	17.1
70°-80°	226.4	4.3
80°-90°	22.1	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°	5298.1	100.0
0°-180°	5298.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631770

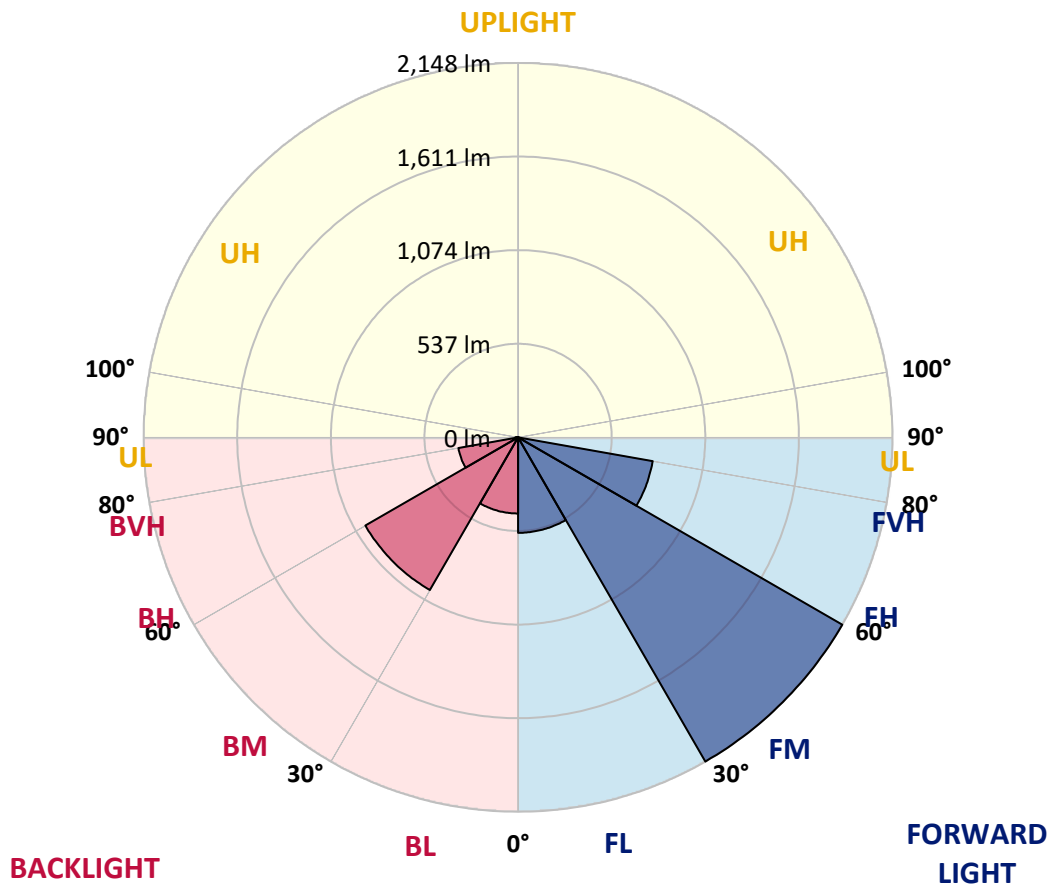
CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.7	10.3			
FM (30°-60°)	2147.9	40.5			
FH (60°-80°)	784.3	14.8			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	436.9	8.2	B1/500		
BM (30°-60°)	1011.5	19.1	B2/2500		
BH (60°-80°)	347.7	6.6	B1/500		G1/500
BVH (80°-90°)	16.3	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-G1**

Type III Short





REPORT NUMBER: P631770

CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1130.5	1128.1	1125.7	1106.6	1101.7	1088.1	1078.3	1066.1	1048.6	1038.8	1030.5
5°	1201.3	1197.4	1184.2	1145.2	1119.8	1092.0	1069.1	1043.7	1016.8	999.3	985.6
7.5°	1268.1	1267.2	1244.7	1180.3	1139.3	1099.3	1068.1	1031.0	992.5	966.1	948.5
10°	1330.1	1322.8	1295.9	1212.0	1158.3	1112.5	1078.8	1037.8	992.9	957.3	933.9
12.5°	1384.8	1375.5	1338.4	1241.3	1174.9	1118.3	1081.7	1048.1	1018.3	988.5	961.7
15°	1429.6	1418.4	1380.8	1268.6	1189.6	1114.9	1063.7	1037.3	1047.6	1060.8	1031.0
17.5°	1471.6	1459.9	1414.0	1288.6	1194.0	1093.9	1019.3	1008.1	1059.8	1119.8	1106.1
20°	1506.7	1493.6	1440.4	1298.4	1186.2	1053.9	961.7	981.2	1049.5	1121.3	1143.2
22.5°	1544.8	1534.1	1470.1	1312.5	1176.4	998.8	913.4	961.2	1032.0	1094.9	1128.1
25°	1605.8	1592.6	1516.5	1337.4	1171.5	947.1	878.8	941.7	1007.6	1064.7	1090.5
27.5°	1694.1	1669.7	1579.9	1380.8	1176.9	898.3	856.8	917.8	979.3	1028.1	1049.1
30°	1790.2	1760.9	1650.2	1425.7	1184.7	868.5	845.1	890.5	935.9	984.6	1007.6
32.5°	1903.9	1878.0	1725.3	1459.4	1168.1	854.9	836.3	860.7	896.8	935.9	954.9
35°	2039.6	1993.2	1807.3	1486.7	1114.4	834.9	828.5	828.0	847.0	885.1	906.6
37.5°	2185.4	2135.7	1908.3	1516.0	1031.0	803.1	810.0	789.5	807.0	837.3	861.7
40°	2305.0	2252.8	2010.3	1556.0	926.6	753.4	769.0	747.0	757.8	789.0	816.3
42.5°	2422.1	2366.5	2105.4	1601.4	825.6	704.6	712.4	704.1	707.5	740.2	778.3
45°	2575.8	2513.3	2222.5	1633.6	734.8	666.0	658.7	644.6	662.6	705.1	745.6
47.5°	2832.4	2757.8	2414.3	1654.6	669.0	644.1	610.4	602.1	624.6	671.9	713.8
50°	3132.5	3068.1	2720.7	1653.6	619.7	625.5	563.6	556.2	593.3	641.1	685.5
52.5°	3378.4	3313.1	2982.7	1604.8	579.2	586.0	536.2	515.7	566.5	610.9	655.3
55°	3577.0	3503.3	3103.2	1400.9	527.9	523.1	506.5	468.9	532.8	580.6	622.1
57.5°	3470.2	3382.3	2957.4	1065.2	475.2	444.5	455.2	427.4	487.0	547.0	587.0
60°	2909.5	2830.5	2402.6	567.0	418.2	371.3	393.8	398.2	436.7	506.5	547.5
62.5°	1998.6	1941.0	1628.2	344.0	329.8	298.1	333.3	365.0	393.8	452.8	488.4
65°	977.8	960.7	814.4	220.5	230.8	241.0	276.2	314.7	357.2	408.9	446.5
67.5°	269.3	271.3	246.9	172.2	182.0	210.3	238.1	268.9	311.3	359.1	397.2
70°	118.6	120.5	124.4	132.7	151.3	177.1	205.9	237.6	276.7	316.7	353.3
72.5°	82.5	84.4	90.3	101.0	117.6	142.0	169.3	199.6	240.1	273.7	304.0
75°	50.7	52.2	57.6	66.8	78.1	96.6	123.4	151.3	186.9	217.6	244.5
77.5°	26.8	25.9	29.3	35.6	45.4	55.1	73.2	90.8	116.1	141.0	163.5
80°	14.6	14.2	16.1	19.5	22.4	30.3	42.5	54.2	68.8	82.9	95.1
82.5°	6.3	5.9	6.3	8.3	10.2	14.6	21.5	29.8	38.1	47.8	55.6
85°	0.0	0.0	0.0	0.5	2.4	3.9	7.3	10.7	15.6	21.5	26.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.4
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: P631770

CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1025.6	1013.4	1012.5	1002.7	1003.7	1004.2	994.4	990.5	993.9	997.8	995.9
5°	980.7	968.1	962.7	953.4	952.4	948.1	944.1	939.3	942.7	946.1	948.1
7.5°	941.7	933.4	930.0	927.6	928.5	926.6	918.8	914.4	913.9	915.4	917.3
10°	929.0	922.2	926.6	933.4	938.3	941.7	933.4	926.1	919.3	916.3	916.3
12.5°	956.3	947.6	956.3	963.7	973.4	975.9	966.6	958.8	956.3	959.3	965.1
15°	1016.8	996.4	995.9	1000.3	1008.1	1012.0	1003.2	999.3	999.3	1017.8	1032.5
17.5°	1077.4	1043.7	1029.5	1027.1	1032.0	1033.4	1026.1	1022.7	1031.5	1067.6	1094.9
20°	1119.8	1078.8	1048.1	1042.2	1043.7	1044.2	1038.3	1035.9	1048.6	1092.5	1115.4
22.5°	1115.4	1085.2	1047.6	1040.3	1042.7	1041.7	1036.4	1035.4	1045.6	1083.7	1094.4
25°	1085.2	1061.7	1030.0	1025.1	1029.0	1028.6	1023.2	1020.8	1025.1	1050.5	1051.5
27.5°	1050.5	1030.0	1002.7	1001.2	1007.6	1011.0	1001.7	994.4	992.9	1010.0	1006.1
30°	1009.0	993.9	972.0	972.9	984.6	986.6	975.4	964.6	961.7	971.0	965.6
32.5°	959.8	954.9	943.2	945.6	956.8	960.7	949.0	937.8	934.4	937.3	926.1
35°	917.8	915.8	916.8	921.2	931.0	933.9	924.1	915.4	910.5	900.2	885.6
37.5°	874.4	879.7	893.9	902.2	907.6	906.6	901.2	894.9	887.1	868.0	850.0
40°	833.9	847.5	872.9	882.2	884.1	884.6	880.7	875.3	865.6	840.2	819.7
42.5°	802.6	817.8	851.4	865.6	866.6	867.5	863.6	859.2	845.6	811.9	791.9
45°	770.0	790.0	829.5	846.6	845.6	845.1	841.7	839.7	823.6	784.6	762.6
47.5°	742.1	765.6	808.0	822.7	822.2	821.7	819.2	819.2	803.1	760.7	735.8
50°	714.8	741.7	786.1	798.3	799.2	798.3	797.3	798.7	779.7	734.3	709.9
52.5°	685.1	715.3	761.7	772.9	778.7	781.2	781.2	777.8	755.3	708.0	681.2
55°	652.4	681.2	734.8	750.0	754.8	759.2	759.2	752.4	731.4	683.6	654.8
57.5°	611.9	637.2	679.7	694.8	706.5	709.5	709.5	698.2	681.2	635.3	611.9
60°	568.0	589.9	618.7	634.8	643.6	637.7	642.1	639.2	625.5	583.1	563.6
62.5°	509.4	531.8	563.6	580.2	584.1	578.2	584.1	583.6	565.0	527.0	503.5
65°	467.4	489.4	520.6	542.1	548.4	547.0	550.9	545.0	522.1	486.0	463.5
67.5°	417.7	441.1	477.2	501.1	514.3	515.7	521.1	508.9	485.5	446.0	417.7
70°	370.3	390.3	418.2	440.6	459.1	468.4	469.4	451.8	422.5	389.9	369.4
72.5°	320.6	341.1	374.7	399.1	422.5	433.3	433.3	411.8	380.1	344.0	322.0
75°	260.1	279.1	309.8	336.2	363.0	376.7	376.2	357.7	322.5	288.4	265.4
77.5°	176.1	190.3	209.8	229.8	233.7	244.5	249.8	226.4	206.9	188.3	167.8
80°	102.5	111.2	122.0	133.2	135.6	139.1	130.3	121.5	111.2	99.1	89.8
82.5°	60.0	65.9	71.2	80.0	81.5	82.5	74.7	70.8	62.5	55.1	49.3
85°	29.3	31.2	36.1	40.5	38.5	37.6	34.2	30.3	26.8	23.9	21.0
87.5°	5.9	5.9	8.8	8.3	6.8	5.9	3.4	4.4	1.0	1.0	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: P631770

CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1002.2	1010.5	1020.8	1034.4	1050.0	1066.6	1082.7	1094.9	1107.1	1125.2	1122.2
5°	951.0	965.1	981.2	1002.2	1027.6	1056.4	1088.6	1120.8	1155.4	1184.7	1197.4
7.5°	921.2	936.8	955.9	983.2	1015.9	1051.0	1096.4	1148.6	1204.7	1243.3	1267.2
10°	921.2	941.2	966.1	992.5	1021.2	1057.3	1113.5	1178.8	1251.1	1301.8	1329.6
12.5°	974.4	994.4	999.8	998.8	1014.9	1054.9	1127.1	1210.6	1296.9	1350.6	1384.8
15°	1057.3	1064.2	1023.7	986.6	989.0	1037.3	1133.5	1235.9	1336.4	1400.9	1437.9
17.5°	1113.0	1094.9	1022.7	957.8	944.1	1007.6	1133.5	1260.3	1378.4	1451.1	1485.8
20°	1117.4	1072.5	997.8	930.0	894.9	968.1	1125.7	1278.9	1418.9	1499.4	1536.5
22.5°	1078.8	1034.4	971.5	906.1	854.4	920.2	1113.0	1293.0	1453.5	1544.8	1590.7
25°	1034.9	997.8	944.6	881.7	826.6	871.9	1101.3	1316.9	1501.9	1606.3	1652.6
27.5°	992.0	960.7	912.4	861.2	810.9	830.0	1093.9	1352.1	1559.4	1693.6	1733.6
30°	950.0	921.7	877.8	841.7	802.6	802.6	1087.6	1392.6	1635.5	1791.7	1831.7
32.5°	907.6	880.7	845.1	822.7	797.8	791.9	1070.0	1430.6	1714.1	1899.0	1940.0
35°	868.0	841.2	813.9	804.6	795.3	783.6	1026.6	1460.4	1790.7	2024.4	2059.6
37.5°	830.9	805.1	784.6	782.2	783.1	761.2	958.3	1485.3	1886.3	2152.8	2171.3
40°	798.7	770.0	753.9	753.4	758.2	725.1	871.9	1520.9	1995.6	2261.6	2253.8
42.5°	770.0	739.7	720.2	724.6	721.7	689.0	787.5	1553.6	2090.8	2363.5	2347.9
45°	741.7	712.4	685.1	691.4	688.0	666.5	715.8	1577.5	2196.2	2486.0	2488.0
47.5°	714.3	685.5	658.2	650.4	649.9	659.7	660.7	1585.3	2367.9	2683.1	2638.7
50°	689.0	660.2	631.9	605.5	615.8	646.0	619.7	1579.4	2625.1	2900.8	2776.8
52.5°	662.6	635.3	604.1	556.7	583.6	613.3	583.1	1558.5	2782.2	3093.0	3018.8
55°	632.4	606.5	564.0	506.5	539.2	545.5	545.5	1355.5	2849.0	3283.3	3329.2
57.5°	591.9	557.7	490.4	444.0	473.3	448.9	505.5	948.5	2738.8	3223.3	3401.4
60°	546.0	509.4	438.2	405.0	413.8	370.8	430.8	594.8	2269.9	2742.7	3051.0
62.5°	485.5	451.8	392.8	366.9	348.9	302.5	346.9	376.2	1556.0	2036.6	2246.9
65°	445.0	407.9	355.2	321.1	284.0	243.5	230.3	246.9	836.8	1139.8	1281.8
67.5°	397.2	360.6	310.8	267.9	238.1	208.8	185.9	180.0	286.9	379.6	410.8
70°	351.8	316.7	275.2	235.2	205.4	176.6	154.2	138.1	132.7	131.7	129.8
72.5°	305.4	272.8	238.1	201.0	168.3	142.0	122.0	103.4	95.6	93.2	90.8
75°	250.3	224.4	189.8	149.8	123.4	99.1	83.4	71.2	64.4	62.0	59.0
77.5°	161.0	149.3	119.1	96.6	74.7	59.0	50.7	42.9	38.5	37.6	35.1
80°	85.9	80.0	65.9	55.6	44.4	36.1	31.7	27.3	24.9	23.9	22.9
82.5°	47.8	43.4	36.6	32.2	25.9	22.0	19.5	17.6	16.1	15.6	15.1
85°	21.5	18.5	14.6	13.7	12.2	11.2	10.7	9.8	9.3	8.8	8.3
87.5°	1.0	2.0	2.4	2.0	2.0	2.9	3.4	3.4	2.9	2.9	2.4
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: P631770

CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1140.3	1154.9	1156.4	1161.3	1154.9	1153.5	1143.2	1137.4	1132.0	1130.5
5°	1229.1	1258.4	1270.1	1278.4	1270.6	1266.7	1244.2	1220.8	1207.6	1201.3
7.5°	1320.3	1364.3	1387.2	1397.4	1398.4	1380.8	1342.3	1298.4	1276.4	1268.1
10°	1401.8	1456.0	1486.2	1505.8	1498.9	1477.5	1424.8	1365.2	1337.4	1330.1
12.5°	1462.3	1514.1	1537.5	1550.2	1549.7	1538.0	1488.2	1423.8	1392.1	1384.8
15°	1501.4	1532.1	1533.6	1536.5	1544.8	1560.4	1534.5	1475.0	1439.9	1429.6
17.5°	1532.1	1519.9	1497.0	1489.2	1507.7	1551.1	1566.7	1518.4	1480.4	1471.6
20°	1551.6	1490.1	1449.6	1434.5	1456.0	1526.7	1586.3	1557.5	1518.0	1506.7
22.5°	1566.7	1462.3	1396.9	1386.7	1409.1	1500.4	1606.3	1603.8	1560.4	1544.8
25°	1590.7	1443.8	1359.9	1352.5	1373.5	1487.7	1633.1	1666.8	1628.2	1605.8
27.5°	1628.2	1441.8	1340.8	1338.4	1367.2	1498.9	1671.7	1759.0	1710.7	1694.1
30°	1680.4	1460.4	1345.2	1350.1	1385.2	1539.4	1731.7	1864.4	1816.1	1790.2
32.5°	1755.6	1510.1	1412.1	1433.1	1458.9	1604.3	1819.5	1978.6	1942.0	1903.9
35°	1854.6	1646.8	1609.7	1699.0	1674.6	1746.3	1925.4	2117.1	2072.7	2039.6
37.5°	1986.9	1926.8	1961.0	2084.0	2024.9	2014.7	2054.7	2243.0	2218.6	2185.4
40°	2172.3	2184.5	2247.4	2408.9	2323.5	2257.7	2213.3	2337.7	2346.0	2305.0
42.5°	2295.2	2351.3	2503.1	2686.6	2569.0	2411.4	2346.0	2458.7	2459.2	2422.1
45°	2341.1	2488.0	2805.1	3016.4	2819.8	2499.2	2419.2	2623.1	2618.2	2575.8
47.5°	2324.5	2603.1	3118.9	3441.9	3141.8	2561.6	2408.9	2857.3	2896.9	2832.4
50°	2289.9	2718.8	3485.3	3963.0	3537.0	2628.0	2393.3	3116.9	3182.3	3132.5
52.5°	2325.0	2847.6	3918.6	4501.7	4032.8	2733.9	2498.7	3450.2	3438.5	3378.4
55°	2436.2	2999.8	4445.1	5178.4	4577.3	2913.0	2769.5	3767.8	3648.8	3577.0
57.5°	2430.9	3108.6	4906.6	5713.7	5051.1	3059.8	2863.7	3801.5	3560.9	3470.2
60°	2206.4	3058.8	5082.3	6052.3	5194.0	2978.8	2553.8	3395.5	3004.7	2909.5
62.5°	1646.8	2714.4	4741.7	5628.3	4789.5	2572.9	1920.5	2437.2	2159.1	1998.6
65°	1053.4	2123.5	3986.4	4559.7	3947.9	1967.8	1143.7	1306.7	1023.7	977.8
67.5°	448.4	1498.9	3098.9	3047.6	2953.5	1275.0	441.6	367.9	274.2	269.3
70°	148.3	1019.8	1910.3	2032.7	1763.9	878.3	145.9	123.4	123.0	118.6
72.5°	97.1	547.5	1075.4	1197.4	1134.9	505.5	88.3	82.5	84.4	82.5
75°	58.1	119.1	181.0	235.2	181.0	84.9	53.2	52.2	53.2	50.7
77.5°	34.2	33.2	32.2	32.2	31.7	29.3	26.8	25.9	26.3	26.8
80°	22.0	21.0	20.0	19.5	17.1	16.1	15.1	14.2	14.2	14.6
82.5°	14.2	13.2	12.2	10.7	8.8	7.3	6.8	5.9	5.9	6.3
85°	7.3	5.9	4.4	3.4	2.0	1.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)