

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: P633257

Luminaire Tested: GWS-SA2E-735-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-735-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

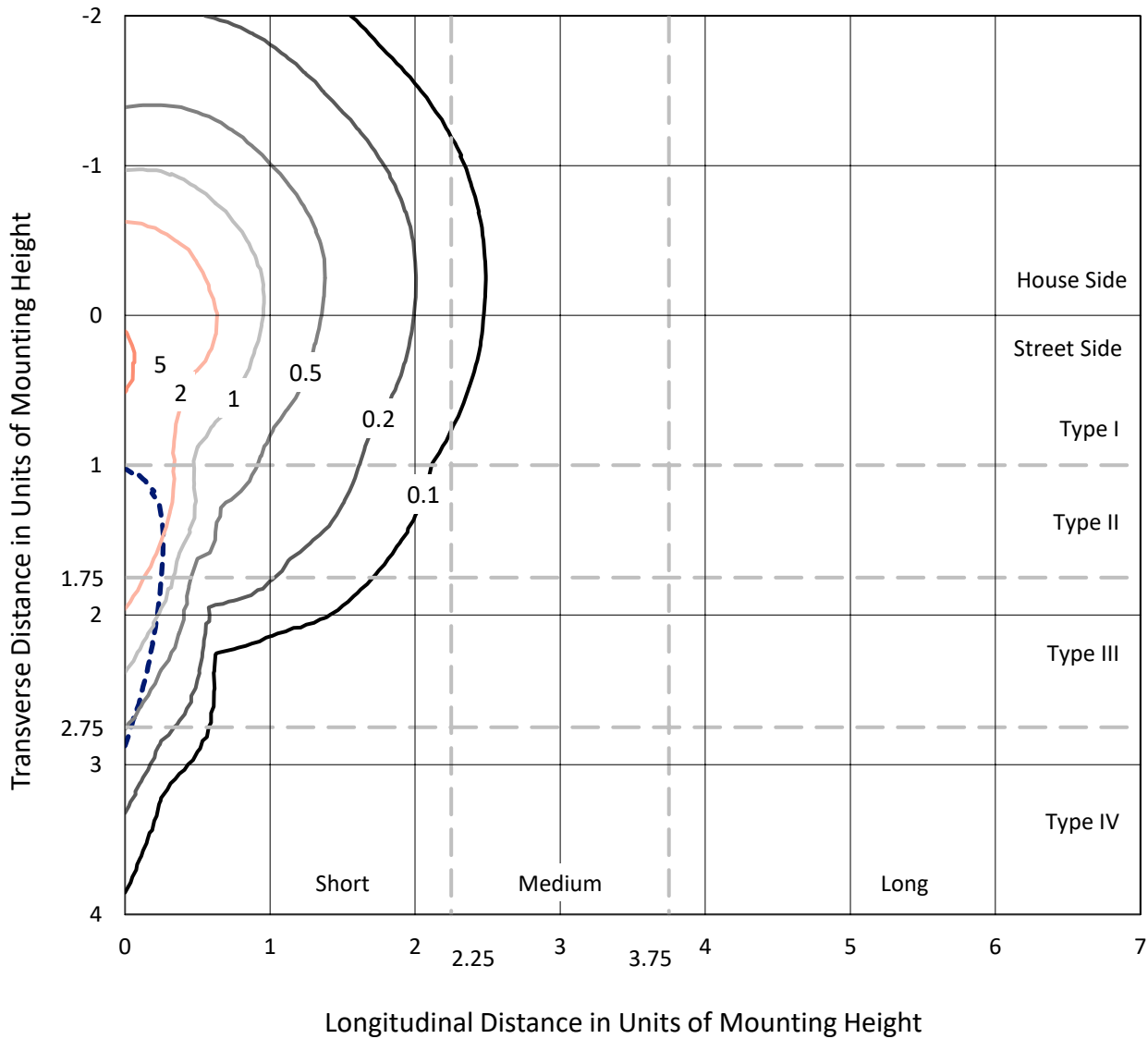
Lumens per Lamp: N/A  
Luminaire Lumens: 13487.9 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

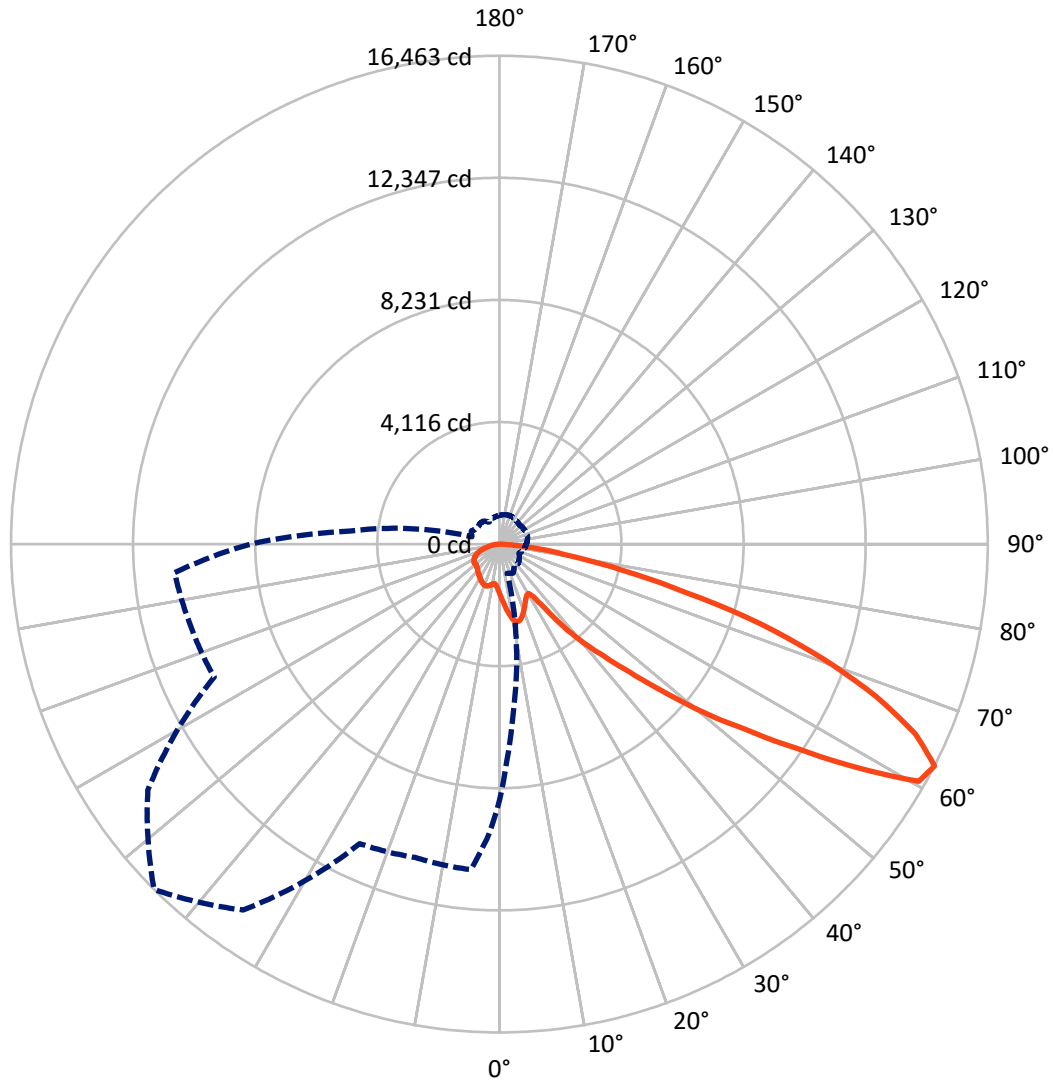
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3225.0	0.0	3225.0
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	10262.9	0.0	10262.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	13487.9	0.0	13487.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.7	1.2
10°-20°	538.4	4.0
20°-30°	847.6	6.3
30°-40°	1161.8	8.6
40°-50°	1812.8	13.4
50°-60°	3125.6	23.2
60°-70°	3622.1	26.9
70°-80°	1911.9	14.2
80°-90°	302.0	2.2
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°	13487.9	100.0
0°-180°	13487.9	100.0

**Coefficient of Utilization**



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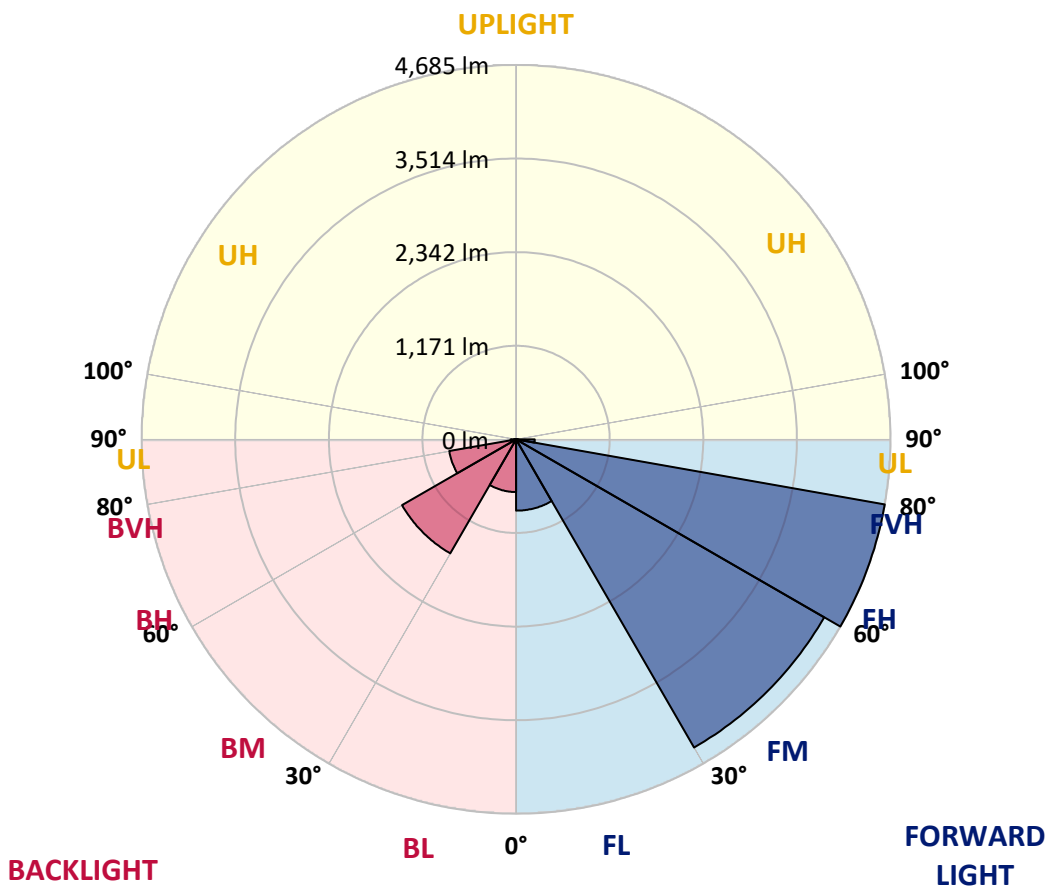
CATALOG NUMBER: GWS-SA2E-735-U-SLL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.1	6.6			
FM (30°-60°)	4452.8	33.0			
FH (60°-80°)	4684.9	34.7			G2/5000
FVH (80°-90°)	233.1	1.7			G3/500
BL (0°-30°)	659.6	4.9	B2/1000		
BM (30°-60°)	1647.3	12.2	B2/2500		
BH (60°-80°)	849.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	68.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1827.1	1819.9	1809.6	1774.5	1752.8	1728.1	1702.3	1672.4	1638.3	1614.6	1590.9
5°	1981.9	1970.5	1945.8	1862.2	1804.4	1741.5	1688.9	1629.0	1570.2	1530.0	1489.8
7.5°	2130.4	2116.0	2077.8	1949.9	1856.0	1765.2	1685.8	1599.1	1511.4	1451.6	1404.1
10°	2279.0	2249.1	2200.6	2033.5	1909.7	1804.4	1713.6	1607.4	1490.8	1409.3	1358.7
12.5°	2392.5	2364.6	2312.0	2109.8	1963.3	1831.3	1729.1	1631.1	1532.1	1445.4	1393.8
15°	2498.8	2462.7	2402.8	2181.0	2007.7	1830.2	1698.2	1612.5	1598.1	1576.4	1509.4
17.5°	2575.1	2542.1	2480.2	2238.8	2032.4	1798.2	1612.5	1562.0	1627.0	1693.0	1629.0
20°	2642.2	2604.0	2541.1	2279.0	2037.6	1727.1	1508.3	1509.4	1611.5	1702.3	1686.8
22.5°	2698.9	2656.6	2600.9	2324.4	2035.5	1628.0	1417.5	1479.4	1581.6	1652.8	1654.8
25°	2769.1	2734.0	2687.6	2391.5	2035.5	1526.9	1351.5	1443.3	1531.0	1590.9	1588.8
27.5°	2854.7	2831.0	2792.8	2493.6	2054.1	1442.3	1314.4	1396.9	1466.0	1517.6	1516.6
30°	2950.6	2929.0	2900.1	2601.9	2086.1	1379.4	1293.7	1339.1	1389.7	1431.0	1431.0
32.5°	3048.7	3040.4	3009.5	2688.6	2061.3	1359.8	1276.2	1281.4	1308.2	1342.2	1339.1
35°	3184.8	3176.6	3137.4	2755.7	1954.0	1331.9	1248.4	1222.6	1225.7	1247.3	1254.5
37.5°	3384.0	3371.6	3313.8	2834.1	1792.1	1261.8	1203.0	1160.7	1151.4	1160.7	1174.1
40°	3624.3	3605.8	3527.4	2940.3	1605.3	1166.8	1131.8	1096.7	1081.2	1084.3	1099.8
42.5°	3925.6	3886.4	3773.9	3052.8	1420.6	1083.3	1052.3	1030.7	1013.1	1011.1	1041.0
45°	4414.6	4307.3	4128.8	3152.9	1264.9	1038.9	981.1	965.7	951.2	959.5	994.6
47.5°	5268.9	5070.8	4723.1	3238.5	1169.9	1039.9	924.4	907.9	906.9	923.4	962.6
50°	6442.9	6157.2	5620.7	3296.3	1120.4	1052.3	890.4	863.5	883.1	899.6	936.8
52.5°	7567.5	7131.1	6492.5	3295.2	1098.8	1054.4	899.6	822.3	883.1	887.3	922.3
55°	8528.0	7737.7	6727.7	2956.8	1067.8	1046.1	935.7	790.3	871.8	887.3	915.1
57.5°	9291.4	8123.6	6710.1	2388.4	1161.7	1000.7	957.4	783.1	838.8	889.3	921.3
60°	9206.8	7947.1	6277.9	1466.0	1152.4	920.3	954.3	796.5	783.1	861.5	914.1
62.5°	8644.6	7314.7	5534.0	1017.3	1082.2	873.8	903.8	820.2	731.5	821.2	879.0
65°	7857.4	6498.6	4611.7	780.0	896.5	875.9	818.1	803.7	686.1	757.3	819.2
67.5°	6816.4	5486.6	3640.8	618.0	625.2	758.3	742.8	713.9	643.8	700.5	756.2
70°	5124.4	4004.0	2505.0	497.3	473.5	633.5	667.5	641.7	602.5	619.0	677.8
72.5°	3610.9	2614.3	1372.2	394.1	365.2	487.0	579.8	575.7	532.4	544.7	602.5
75°	2683.4	1849.8	857.3	311.6	297.1	348.7	485.9	498.3	462.2	476.6	521.0
77.5°	1785.9	1197.8	476.6	231.1	231.1	254.8	362.1	419.9	393.1	404.4	435.4
80°	985.3	609.7	238.3	151.7	155.8	175.4	264.1	302.3	303.3	331.2	339.4
82.5°	311.6	194.0	106.3	88.7	83.6	100.1	170.2	216.7	202.2	257.9	237.3
85°	71.2	45.4	19.6	19.6	21.7	33.0	65.0	115.5	147.5	177.5	129.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	45.4	67.1	59.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1576.4	1555.8	1549.6	1532.1	1530.0	1513.5	1507.3	1507.3	1514.5	1514.5	1521.7
5°	1473.3	1447.5	1433.0	1412.4	1407.2	1394.9	1386.6	1387.6	1396.9	1403.1	1415.5
7.5°	1382.5	1364.9	1354.6	1345.3	1343.3	1341.2	1331.9	1330.9	1334.0	1343.3	1352.6
10°	1344.3	1331.9	1335.0	1342.2	1353.6	1359.8	1351.5	1347.4	1344.3	1350.5	1358.7
12.5°	1381.4	1369.1	1375.2	1387.6	1403.1	1409.3	1406.2	1405.2	1408.3	1432.0	1449.5
15°	1462.9	1439.2	1431.0	1436.1	1448.5	1454.7	1451.6	1455.7	1475.3	1537.2	1581.6
17.5°	1564.0	1506.3	1473.3	1464.0	1469.1	1474.3	1474.3	1484.6	1518.7	1609.4	1665.2
20°	1618.7	1543.4	1487.7	1465.0	1467.1	1472.2	1472.2	1486.7	1524.8	1621.8	1657.9
22.5°	1604.3	1535.2	1467.1	1442.3	1443.3	1447.5	1447.5	1459.8	1493.9	1579.5	1596.0
25°	1547.5	1486.7	1419.6	1397.9	1400.0	1407.2	1405.2	1412.4	1438.2	1508.3	1517.6
27.5°	1479.4	1425.8	1359.8	1343.3	1352.6	1367.0	1354.6	1355.6	1379.4	1438.2	1439.2
30°	1406.2	1361.8	1303.0	1290.6	1308.2	1315.4	1304.1	1304.1	1327.8	1368.0	1367.0
32.5°	1326.8	1298.9	1256.6	1243.2	1262.8	1274.1	1259.7	1261.8	1280.3	1307.2	1296.8
35°	1252.5	1238.0	1218.4	1209.1	1221.5	1231.8	1222.6	1226.7	1244.2	1251.4	1237.0
37.5°	1181.3	1179.2	1181.3	1181.3	1184.4	1187.5	1181.3	1191.6	1207.1	1197.8	1181.3
40°	1119.4	1127.6	1147.2	1142.1	1139.0	1142.1	1138.0	1155.5	1171.0	1154.5	1134.9
42.5°	1067.8	1083.3	1113.2	1113.2	1107.0	1109.1	1107.0	1128.7	1140.0	1117.3	1095.7
45°	1023.4	1046.1	1084.3	1089.5	1079.2	1079.2	1083.3	1110.1	1114.2	1083.3	1060.6
47.5°	992.5	1020.3	1063.7	1073.0	1057.5	1056.5	1067.8	1096.7	1096.7	1060.6	1034.8
50°	970.8	1001.8	1053.4	1065.7	1050.3	1046.1	1064.7	1092.6	1086.4	1043.0	1017.3
52.5°	956.4	988.4	1052.3	1069.9	1059.6	1055.4	1074.0	1093.6	1078.1	1031.7	1004.9
55°	947.1	982.2	1055.4	1069.9	1058.5	1051.3	1069.9	1087.4	1079.2	1025.5	999.7
57.5°	952.3	987.3	1051.3	1058.5	1045.1	1032.7	1054.4	1079.2	1076.1	1027.6	1001.8
60°	944.0	976.0	1028.6	1030.7	1008.0	988.4	1020.3	1057.5	1057.5	1020.3	997.6
62.5°	905.8	937.8	984.2	986.3	960.5	938.8	976.0	1020.3	1019.3	989.4	965.7
65°	842.9	872.8	925.4	930.6	904.8	882.1	920.3	961.5	964.6	937.8	917.2
67.5°	773.8	800.6	839.8	860.4	838.8	815.0	850.1	889.3	888.3	856.3	834.6
70°	691.2	716.0	752.1	769.6	756.2	733.5	765.5	786.2	776.9	761.4	746.9
72.5°	609.7	633.5	667.5	667.5	653.1	631.4	640.7	677.8	689.2	677.8	668.5
75°	524.1	544.7	568.5	573.6	541.6	502.4	545.8	577.7	591.2	586.0	574.7
77.5°	436.4	451.9	487.0	477.7	417.8	397.2	432.3	479.7	489.0	485.9	470.5
80°	336.3	345.6	382.8	364.2	317.8	304.3	319.8	357.0	359.0	348.7	329.1
82.5°	225.9	238.3	263.1	227.0	225.9	213.6	201.2	205.3	223.9	221.8	208.4
85°	115.5	121.7	145.5	136.2	116.6	101.1	95.9	102.1	91.8	83.6	72.2
87.5°	48.5	52.6	72.2	40.2	12.4	0.0	0.0	6.2	9.3	13.4	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1538.3	1549.6	1577.5	1612.5	1646.6	1681.7	1719.8	1743.6	1772.5	1809.6	1810.6
5°	1431.0	1456.8	1497.0	1550.6	1606.3	1670.3	1744.6	1806.5	1880.8	1939.6	1963.3
7.5°	1364.9	1402.1	1452.6	1520.7	1594.0	1673.4	1770.4	1874.6	1996.3	2074.7	2121.2
10°	1371.1	1427.9	1478.4	1536.2	1602.2	1687.9	1812.7	1950.9	2100.5	2203.7	2261.5
12.5°	1481.5	1541.4	1532.1	1529.0	1573.3	1677.5	1846.7	2028.3	2210.9	2314.1	2383.2
15°	1620.8	1643.5	1555.8	1489.8	1516.6	1640.4	1865.3	2097.4	2302.7	2428.6	2496.7
17.5°	1692.0	1646.6	1540.3	1441.3	1434.1	1583.7	1874.6	2167.6	2405.9	2531.8	2604.0
20°	1659.0	1592.9	1503.2	1409.3	1357.7	1506.3	1869.4	2223.3	2499.8	2640.1	2698.9
22.5°	1587.8	1530.0	1459.8	1370.1	1295.8	1421.7	1856.0	2279.0	2583.4	2724.7	2776.3
25°	1510.4	1467.1	1409.3	1330.9	1260.7	1347.4	1846.7	2353.3	2679.3	2814.5	2847.5
27.5°	1433.0	1401.0	1353.6	1292.7	1252.5	1295.8	1849.8	2450.3	2803.1	2931.0	2917.6
30°	1356.7	1328.8	1295.8	1269.0	1251.4	1283.4	1841.6	2553.4	2939.3	3057.9	2978.5
32.5°	1284.5	1258.7	1238.0	1242.2	1252.5	1288.6	1799.3	2647.3	3064.1	3165.2	3044.5
35°	1222.6	1195.7	1195.7	1210.2	1248.4	1271.0	1689.9	2720.6	3202.4	3303.5	3138.4
37.5°	1164.8	1141.1	1156.5	1180.3	1216.4	1223.6	1549.6	2791.8	3403.6	3498.5	3283.9
40°	1114.2	1090.5	1118.4	1148.3	1166.8	1163.8	1407.2	2890.8	3640.8	3738.9	3476.8
42.5°	1074.0	1052.3	1077.1	1115.3	1118.4	1121.5	1303.0	2985.7	3916.3	4041.1	3809.0
45°	1041.0	1025.5	1037.9	1076.1	1076.1	1123.5	1238.0	3065.2	4331.1	4551.8	4418.7
47.5°	1015.2	1005.9	1012.1	1024.5	1045.1	1160.7	1196.8	3126.0	5086.3	5519.6	5385.4
50°	1000.7	991.5	999.7	973.9	1035.8	1179.2	1183.4	3172.5	6081.8	6760.7	6594.6
52.5°	988.4	985.3	990.4	930.6	1056.5	1166.8	1173.0	3110.6	6749.3	7982.2	8146.3
55°	984.2	986.3	961.5	898.6	1081.2	1125.6	1142.1	2668.0	6930.9	9035.6	10053.9
57.5°	986.3	980.1	917.2	901.7	1082.2	1043.0	1186.4	1903.5	6666.8	9493.7	11920.2
60°	979.1	948.1	863.5	929.6	1034.8	946.1	1154.5	1241.1	5970.4	9141.8	12028.5
62.5°	947.1	901.7	817.1	945.0	950.2	888.3	1048.2	956.4	5041.9	8388.7	10984.5
65°	900.7	839.8	777.9	913.0	864.6	861.5	788.2	766.5	4054.6	7492.2	9994.0
67.5°	824.3	763.5	749.0	839.8	777.9	763.5	633.5	635.5	3235.4	6536.8	8998.4
70°	737.7	676.8	688.1	759.3	692.3	634.5	512.8	529.3	2454.4	5446.3	7656.2
72.5°	680.9	599.4	600.4	668.5	608.7	513.8	422.0	436.4	1557.9	4105.1	6087.0
75°	574.7	528.2	505.5	541.6	516.9	400.3	354.9	351.8	923.4	2942.4	4558.0
77.5°	479.7	443.6	432.3	446.7	385.9	296.1	285.8	280.6	523.1	1884.9	2986.8
80°	347.7	338.4	337.4	344.6	297.1	217.7	217.7	218.7	281.7	1023.4	1683.7
82.5°	220.8	241.4	213.6	237.3	202.2	154.8	144.4	164.0	162.0	436.4	709.8
85°	91.8	125.9	117.6	124.8	95.9	84.6	90.8	98.0	93.9	168.2	276.5
87.5°	17.5	20.6	22.7	21.7	21.7	26.8	29.9	36.1	36.1	48.5	83.6
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: P633257  
 CATALOG NUMBER: GWS-SA2E-735-U-SLL-W

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1849.8	1879.7	1873.6	1887.0	1869.4	1875.6	1840.5	1831.3	1825.1	1827.1
5°	2039.7	2100.5	2111.9	2134.6	2119.1	2119.1	2057.2	2010.8	1994.3	1981.9
7.5°	2232.6	2320.3	2378.1	2384.2	2376.0	2359.5	2269.7	2186.2	2156.2	2130.4
10°	2403.8	2509.1	2574.1	2605.0	2589.6	2563.8	2452.3	2337.8	2301.7	2279.0
12.5°	2534.9	2627.7	2671.1	2691.7	2689.6	2680.3	2589.6	2465.7	2427.6	2392.5
15°	2619.5	2665.9	2649.4	2648.4	2662.8	2699.9	2672.1	2575.1	2530.7	2498.8
17.5°	2674.2	2629.8	2556.5	2522.5	2553.4	2641.1	2705.1	2650.4	2610.2	2575.1
20°	2693.8	2535.9	2429.6	2366.7	2402.8	2529.7	2687.6	2705.1	2671.1	2642.2
22.5°	2671.1	2421.4	2276.9	2202.7	2237.7	2389.4	2636.0	2749.5	2726.8	2698.9
25°	2615.3	2301.7	2128.4	2061.3	2099.5	2254.3	2544.2	2790.7	2791.8	2769.1
27.5°	2546.2	2191.3	2024.2	1961.3	1998.4	2142.8	2454.4	2826.8	2863.0	2854.7
30°	2476.1	2125.3	1974.7	1930.3	1958.2	2086.1	2362.6	2864.0	2936.2	2950.6
32.5°	2444.1	2157.3	2091.2	2110.8	2074.7	2119.1	2329.6	2916.6	3024.9	3048.7
35°	2486.4	2441.0	2608.1	2685.5	2557.6	2389.4	2371.9	2996.0	3149.8	3184.8
37.5°	2691.7	3048.7	3298.3	3570.7	3348.9	2978.5	2581.3	3131.2	3328.2	3384.0
40°	3138.4	3578.9	4029.8	4381.6	4046.3	3548.0	2979.5	3332.4	3573.8	3624.3
42.5°	3559.3	4076.2	4697.3	5152.3	4716.9	4013.3	3408.7	3670.8	3897.7	3925.6
45°	3972.0	4564.2	5505.1	6137.5	5546.4	4455.9	3847.2	4242.3	4413.6	4414.6
47.5°	4455.9	5114.1	6518.2	7418.9	6647.2	4945.9	4258.8	5147.1	5385.4	5268.9
50°	5034.7	5660.9	7561.3	8909.7	7989.4	5548.5	4781.9	6250.0	6575.0	6442.9
52.5°	5809.5	6263.4	8710.6	10363.4	9452.4	6234.5	5540.2	7706.8	7814.1	7567.5
55°	6900.0	7133.1	10185.9	12158.5	11085.6	7079.5	6649.3	9534.9	9234.7	8528.0
57.5°	9383.3	8509.4	12080.1	14206.4	12933.3	8614.6	9079.9	11550.9	10483.0	9291.4
60°	11461.1	10180.8	13833.0	16238.9	14517.0	10306.6	11362.1	11901.6	10436.6	9206.8
62.5°	10760.6	10606.8	14465.4	16462.7	15057.6	11139.2	10938.0	11017.5	9755.7	8644.6
65°	9441.0	9784.6	13901.1	15401.1	14458.2	10393.3	9893.9	10200.4	8976.8	7857.4
67.5°	8662.1	8914.9	12897.2	13701.9	13368.7	9586.5	9082.0	8860.2	7767.6	6816.4
70°	7865.6	8075.1	11487.9	11569.4	11669.5	8245.3	7426.1	6765.9	5789.9	5124.4
72.5°	6796.8	6808.2	9706.2	9233.7	9423.5	6452.2	5977.6	5058.4	4214.5	3610.9
75°	5702.2	5390.6	7683.0	6454.3	6835.0	5019.2	4963.5	3812.1	3178.7	2683.4
77.5°	4347.6	3983.4	5612.4	4244.4	4800.5	3342.7	3731.6	2585.4	2236.7	1785.9
80°	2918.7	2691.7	3101.3	2395.6	3140.5	2303.8	2433.8	1465.0	1270.0	985.3
82.5°	1539.3	1314.4	1916.9	1420.6	1894.2	1265.9	913.0	452.9	385.9	311.6
85°	596.3	690.2	939.9	505.5	734.6	451.9	264.1	112.5	93.9	71.2
87.5°	115.5	178.5	98.0	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)