

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: P634520

Luminaire Tested: GWS-SA3B-830-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634520  
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-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

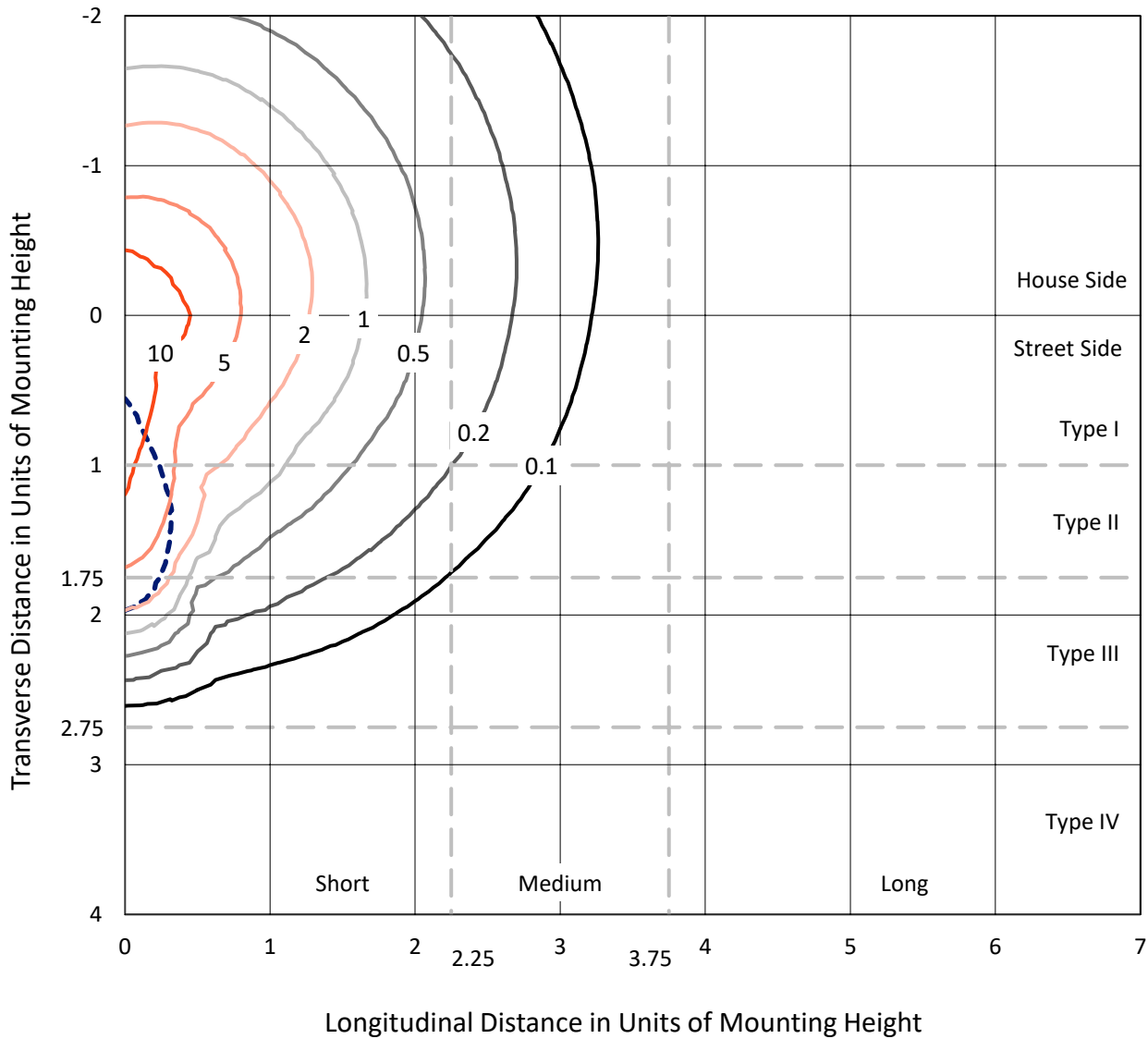
Lumens per Lamp: N/A  
Luminaire Lumens: 6431.6 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

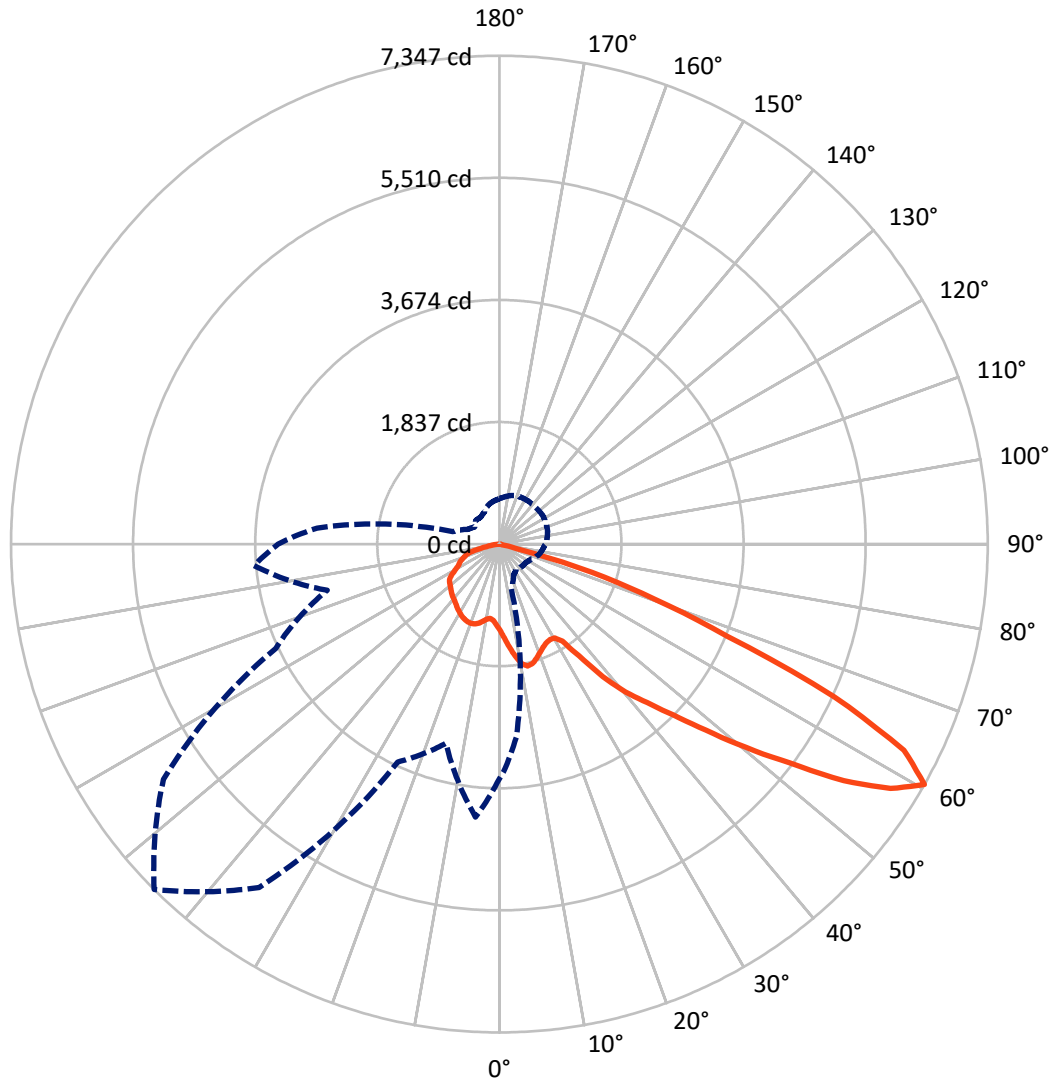
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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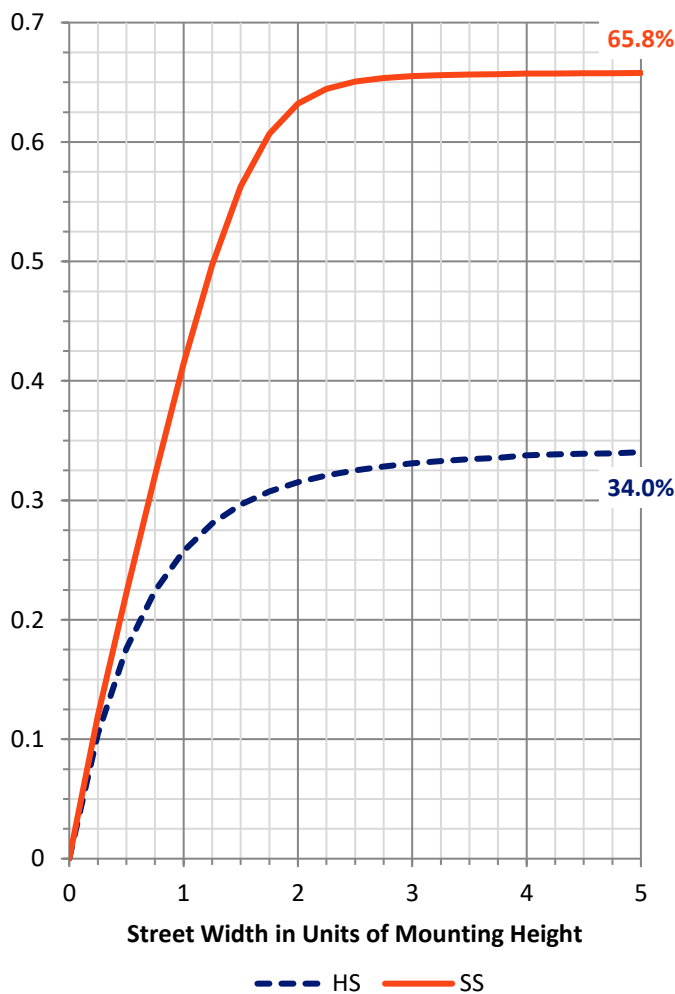
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2200.2	0.0	2200.2
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	4231.4	0.0	4231.4
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	6431.6	0.0	6431.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	2.0
10°-20°	406.5	6.3
20°-30°	662.0	10.3
30°-40°	930.0	14.5
40°-50°	1272.6	19.8
50°-60°	1632.7	25.4
60°-70°	1099.4	17.1
70°-80°	274.9	4.3
80°-90°	26.8	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°	6431.6	100.0
0°-180°	6431.6	100.0

**Coefficient of Utilization**



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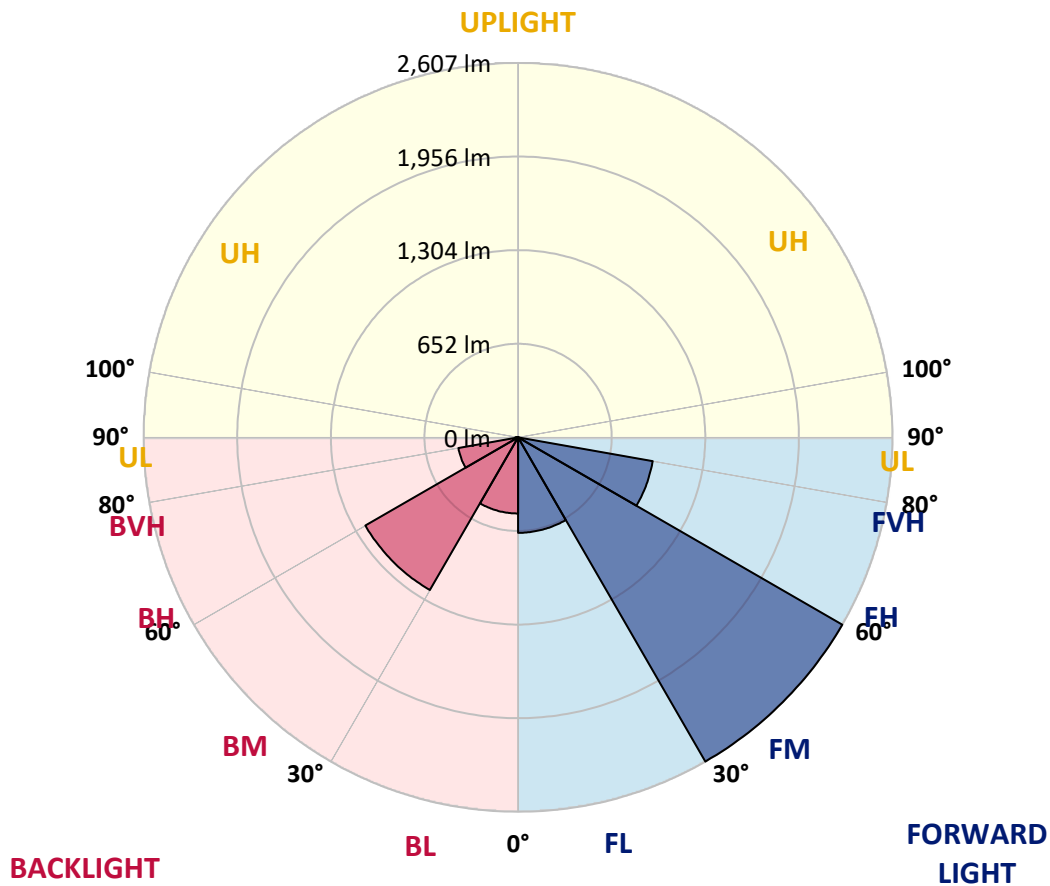
CATALOG NUMBER: GWS-SA3B-830-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.9	10.3			
FM (30°-60°)	2607.4	40.5			
FH (60°-80°)	952.1	14.8			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	530.4	8.2	B2/1000		
BM (30°-60°)	1227.9	19.1	B2/2500		
BH (60°-80°)	422.1	6.6	B1/500		G1/500
BVH (80°-90°)	19.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2
2.5°	1372.4	1369.4	1366.5	1343.4	1337.5	1320.9	1309.0	1294.2	1272.9	1261.1	1251.0
5°	1458.3	1453.6	1437.6	1390.2	1359.4	1325.6	1297.8	1267.0	1234.4	1213.1	1196.5
7.5°	1539.4	1538.3	1511.0	1432.8	1383.1	1334.5	1296.6	1251.6	1204.8	1172.8	1151.5
10°	1614.7	1605.8	1573.2	1471.3	1406.2	1350.5	1309.6	1259.9	1205.4	1162.1	1133.7
12.5°	1681.0	1669.8	1624.7	1506.9	1426.3	1357.6	1313.2	1272.3	1236.2	1200.0	1167.5
15°	1735.5	1721.9	1676.3	1540.0	1444.1	1353.5	1291.3	1259.3	1271.7	1287.7	1251.6
17.5°	1786.4	1772.2	1716.5	1564.3	1449.4	1328.0	1237.4	1223.7	1286.5	1359.4	1342.8
20°	1829.1	1813.1	1748.5	1576.2	1439.9	1279.4	1167.5	1191.2	1274.1	1361.2	1387.8
22.5°	1875.3	1862.3	1784.7	1593.3	1428.1	1212.5	1108.8	1166.9	1252.8	1329.2	1369.4
25°	1949.3	1933.3	1840.9	1623.6	1422.2	1149.7	1066.8	1143.2	1223.1	1292.4	1323.8
27.5°	2056.5	2026.9	1917.9	1676.3	1428.7	1090.5	1040.1	1114.2	1188.8	1248.0	1273.5
30°	2173.2	2137.7	2003.2	1730.8	1438.2	1054.3	1025.9	1081.0	1136.1	1195.3	1223.1
32.5°	2311.2	2279.8	2094.5	1771.6	1418.0	1037.7	1015.2	1044.9	1088.7	1136.1	1159.2
35°	2475.9	2419.6	2194.0	1804.8	1352.9	1013.5	1005.8	1005.2	1028.3	1074.5	1100.5
37.5°	2653.0	2592.6	2316.6	1840.3	1251.6	975.0	983.3	958.4	979.7	1016.4	1046.0
40°	2798.1	2734.8	2440.4	1888.9	1124.8	914.5	933.5	906.8	919.9	957.8	991.0
42.5°	2940.3	2872.8	2555.9	1944.0	1002.2	855.3	864.8	854.7	858.9	898.6	944.8
45°	3126.9	3051.1	2698.0	1983.1	892.0	808.5	799.6	782.5	804.4	855.9	905.1
47.5°	3438.4	3347.8	2930.8	2008.6	812.1	781.9	741.0	730.9	758.2	815.6	866.6
50°	3802.7	3724.5	3302.8	2007.4	752.2	759.4	684.1	675.2	720.3	778.3	832.2
52.5°	4101.2	4021.9	3620.9	1948.1	703.1	711.4	651.0	626.1	687.7	741.6	795.5
55°	4342.3	4252.9	3767.2	1700.6	640.9	635.0	614.8	569.2	646.8	704.9	755.2
57.5°	4212.6	4106.0	3590.1	1293.0	576.9	539.6	552.6	518.9	591.1	664.0	712.6
60°	3532.0	3436.1	2916.6	688.3	507.6	450.8	478.0	483.3	530.1	614.8	664.6
62.5°	2426.2	2356.3	1976.6	417.6	400.4	361.9	404.6	443.1	478.0	549.7	592.9
65°	1187.0	1166.3	988.6	267.7	280.2	292.6	335.3	382.0	433.6	496.4	542.0
67.5°	327.0	329.3	299.7	209.1	220.9	255.3	289.1	326.4	377.9	435.9	482.2
70°	143.9	146.3	151.0	161.1	183.6	215.0	250.0	288.5	335.8	384.4	428.8
72.5°	100.1	102.5	109.6	122.6	142.7	172.4	205.5	242.3	291.4	332.3	369.0
75°	61.6	63.4	69.9	81.1	94.8	117.3	149.9	183.6	226.9	264.2	296.8
77.5°	32.6	31.4	35.5	43.2	55.1	66.9	88.8	110.2	141.0	171.2	198.4
80°	17.8	17.2	19.5	23.7	27.2	36.7	51.5	65.7	83.5	100.7	115.5
82.5°	7.7	7.1	7.7	10.1	12.4	17.8	26.1	36.1	46.2	58.0	67.5
85°	0.0	0.0	0.0	0.6	3.0	4.7	8.9	13.0	19.0	26.1	32.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.3
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°	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2
2.5°	1245.1	1230.3	1229.1	1217.2	1218.4	1219.0	1207.2	1202.4	1206.6	1211.3	1208.9
5°	1190.6	1175.2	1168.7	1157.4	1156.2	1150.9	1146.1	1140.2	1144.4	1148.5	1150.9
7.5°	1143.2	1133.1	1129.0	1126.0	1127.2	1124.8	1115.3	1110.0	1109.4	1111.2	1113.6
10°	1127.8	1119.5	1124.8	1133.1	1139.0	1143.2	1133.1	1124.2	1115.9	1112.4	1112.4
12.5°	1161.0	1150.3	1161.0	1169.8	1181.7	1184.6	1173.4	1163.9	1161.0	1164.5	1171.6
15°	1234.4	1209.5	1208.9	1214.3	1223.7	1228.5	1217.8	1213.1	1213.1	1235.6	1253.4
17.5°	1307.8	1267.0	1249.8	1246.8	1252.8	1254.5	1245.7	1241.5	1252.2	1296.0	1329.2
20°	1359.4	1309.6	1272.3	1265.2	1267.0	1267.6	1260.5	1257.5	1272.9	1326.2	1354.0
22.5°	1354.0	1317.3	1271.7	1262.8	1265.8	1264.6	1258.1	1256.9	1269.3	1315.5	1328.6
25°	1317.3	1288.9	1250.4	1244.5	1249.2	1248.6	1242.1	1239.1	1244.5	1275.3	1276.5
27.5°	1275.3	1250.4	1217.2	1215.4	1223.1	1227.3	1216.0	1207.2	1205.4	1226.1	1221.4
30°	1224.9	1206.6	1179.9	1181.1	1195.3	1197.7	1184.1	1171.0	1167.5	1178.7	1172.2
32.5°	1165.1	1159.2	1145.0	1147.9	1161.5	1166.3	1152.1	1138.4	1134.3	1137.9	1124.2
35°	1114.2	1111.8	1113.0	1118.3	1130.2	1133.7	1121.9	1111.2	1105.3	1092.8	1075.1
37.5°	1061.4	1068.0	1085.1	1095.2	1101.7	1100.5	1094.0	1086.3	1076.8	1053.7	1031.8
40°	1012.3	1028.9	1059.7	1070.9	1073.3	1073.9	1069.1	1062.6	1050.8	1020.0	995.1
42.5°	974.4	992.7	1033.6	1050.8	1052.0	1053.1	1048.4	1043.1	1026.5	985.6	961.3
45°	934.7	959.0	1006.9	1027.7	1026.5	1025.9	1021.8	1019.4	999.8	952.5	925.8
47.5°	900.9	929.4	980.9	998.7	998.1	997.5	994.5	994.5	975.0	923.4	893.2
50°	867.8	900.3	954.2	969.0	970.2	969.0	967.9	969.6	946.5	891.4	861.8
52.5°	831.6	868.3	924.6	938.2	945.3	948.3	948.3	944.2	916.9	859.5	826.9
55°	791.9	826.9	892.0	910.4	916.3	921.7	921.7	913.4	887.9	829.8	794.9
57.5°	742.8	773.6	825.1	843.5	857.7	861.2	861.2	847.6	826.9	771.2	742.8
60°	689.5	716.1	751.1	770.6	781.3	774.2	779.5	775.9	759.4	707.8	684.1
62.5°	618.4	645.6	684.1	704.3	709.0	701.9	709.0	708.4	685.9	639.7	611.3
65°	567.4	594.1	632.0	658.1	665.8	664.0	668.7	661.6	633.8	590.0	562.7
67.5°	507.0	535.5	579.3	608.3	624.3	626.1	632.6	617.8	589.4	541.4	507.0
70°	449.6	473.9	507.6	534.9	557.4	568.6	569.8	548.5	513.0	473.3	448.4
72.5°	389.2	414.0	454.9	484.5	513.0	526.0	526.0	499.9	461.4	417.6	390.9
75°	315.7	338.8	376.1	408.1	440.7	457.3	456.7	434.2	391.5	350.1	322.2
77.5°	213.8	231.0	254.7	279.0	283.7	296.8	303.3	274.8	251.1	228.6	203.8
80°	124.4	135.0	148.1	161.7	164.7	168.8	158.1	147.5	135.0	120.2	109.0
82.5°	72.9	80.0	86.5	97.1	98.9	100.1	90.6	85.9	75.8	66.9	59.8
85°	35.5	37.9	43.8	49.2	46.8	45.6	41.5	36.7	32.6	29.0	25.5
87.5°	7.1	7.1	10.7	10.1	8.3	7.1	4.1	5.3	1.2	1.2	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2
2.5°	1216.6	1226.7	1239.1	1255.7	1274.7	1294.8	1314.4	1329.2	1344.0	1365.9	1362.3
5°	1154.4	1171.6	1191.2	1216.6	1247.4	1282.4	1321.5	1360.6	1402.6	1438.2	1453.6
7.5°	1118.3	1137.3	1160.4	1193.5	1233.2	1275.9	1330.9	1394.3	1462.4	1509.2	1538.3
10°	1118.3	1142.6	1172.8	1204.8	1239.7	1283.6	1351.7	1431.1	1518.7	1580.3	1614.1
12.5°	1182.9	1207.2	1213.7	1212.5	1232.0	1280.6	1368.3	1469.6	1574.4	1639.5	1681.0
15°	1283.6	1291.9	1242.7	1197.7	1200.6	1259.3	1376.0	1500.4	1622.4	1700.6	1745.6
17.5°	1351.1	1329.2	1241.5	1162.7	1146.1	1223.1	1376.0	1530.0	1673.3	1761.6	1803.6
20°	1356.4	1301.9	1211.3	1129.0	1086.3	1175.2	1366.5	1552.5	1722.5	1820.2	1865.2
22.5°	1309.6	1255.7	1179.3	1099.9	1037.2	1117.1	1351.1	1569.7	1764.5	1875.3	1931.0
25°	1256.3	1211.3	1146.7	1070.3	1003.4	1058.5	1336.9	1598.7	1823.2	1949.9	2006.2
27.5°	1204.2	1166.3	1107.6	1045.4	984.4	1007.5	1328.0	1641.3	1893.1	2055.9	2104.5
30°	1153.3	1118.9	1065.6	1021.8	974.4	974.4	1320.3	1690.5	1985.5	2175.0	2223.6
32.5°	1101.7	1069.1	1025.9	998.7	968.4	961.3	1299.0	1736.7	2080.8	2305.3	2355.1
35°	1053.7	1021.2	988.0	976.7	965.5	951.3	1246.2	1772.8	2173.8	2457.5	2500.2
37.5°	1008.7	977.3	952.5	949.5	950.7	924.0	1163.3	1803.0	2289.9	2613.3	2635.8
40°	969.6	934.7	915.1	914.5	920.5	880.2	1058.5	1846.3	2422.6	2745.4	2735.9
42.5°	934.7	898.0	874.3	879.6	876.0	836.4	956.0	1886.0	2538.1	2869.2	2850.3
45°	900.3	864.8	831.6	839.3	835.2	809.1	868.9	1915.0	2666.0	3017.9	3020.3
47.5°	867.2	832.2	799.0	789.6	789.0	800.8	802.0	1924.5	2874.5	3257.2	3203.3
50°	836.4	801.4	767.1	735.1	747.5	784.2	752.2	1917.3	3186.7	3521.4	3370.9
52.5°	804.4	771.2	733.3	675.8	708.4	744.5	707.8	1891.9	3377.4	3754.7	3664.7
55°	767.6	736.3	684.7	614.8	654.5	662.2	662.2	1645.5	3458.6	3985.7	4041.4
57.5°	718.5	677.0	595.3	539.0	574.6	544.9	613.6	1151.5	3324.7	3912.9	4129.1
60°	662.8	618.4	531.9	491.6	502.3	450.2	523.0	722.0	2755.5	3329.4	3703.8
62.5°	589.4	548.5	476.8	445.4	423.5	367.2	421.1	456.7	1888.9	2472.4	2727.6
65°	540.2	495.2	431.2	389.7	344.7	295.6	279.6	299.7	1015.8	1383.7	1556.0
67.5°	482.2	437.7	377.3	325.2	289.1	253.5	225.7	218.6	348.3	460.8	498.7
70°	427.1	384.4	334.1	285.5	249.4	214.4	187.2	167.6	161.1	159.9	157.6
72.5°	370.8	331.1	289.1	244.0	204.4	172.4	148.1	125.6	116.1	113.1	110.2
75°	303.9	272.5	230.4	181.8	149.9	120.2	101.3	86.5	78.2	75.2	71.7
77.5°	195.5	181.3	144.5	117.3	90.6	71.7	61.6	52.1	46.8	45.6	42.6
80°	104.2	97.1	80.0	67.5	53.9	43.8	38.5	33.2	30.2	29.0	27.8
82.5°	58.0	52.7	44.4	39.1	31.4	26.7	23.7	21.3	19.5	19.0	18.4
85°	26.1	22.5	17.8	16.6	14.8	13.6	13.0	11.8	11.3	10.7	10.1
87.5°	1.2	2.4	3.0	2.4	2.4	3.6	4.1	4.1	3.6	3.6	3.0
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: P634520

CATALOG NUMBER: GWS-SA3B-830-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2	1297.2
2.5°	1384.3	1402.0	1403.8	1409.7	1402.0	1400.2	1387.8	1380.7	1374.2	1372.4
5°	1492.1	1527.6	1541.8	1551.9	1542.4	1537.7	1510.4	1482.0	1466.0	1458.3
7.5°	1602.8	1656.1	1684.0	1696.4	1697.6	1676.3	1629.5	1576.2	1549.5	1539.4
10°	1701.7	1767.5	1804.2	1827.9	1819.6	1793.6	1729.6	1657.3	1623.6	1614.7
12.5°	1775.2	1838.0	1866.4	1881.8	1881.2	1867.0	1806.6	1728.4	1689.9	1681.0
15°	1822.6	1859.9	1861.7	1865.2	1875.3	1894.2	1862.9	1790.6	1747.9	1735.5
17.5°	1859.9	1845.1	1817.2	1807.8	1830.3	1883.0	1901.9	1843.3	1797.1	1786.4
20°	1883.6	1809.0	1759.8	1741.4	1767.5	1853.4	1925.6	1890.7	1842.7	1829.1
22.5°	1901.9	1775.2	1695.8	1683.4	1710.6	1821.4	1949.9	1947.0	1894.2	1875.3
25°	1931.0	1752.7	1650.8	1641.9	1667.4	1806.0	1982.5	2023.4	1976.6	1949.3
27.5°	1976.6	1750.3	1627.7	1624.7	1659.7	1819.6	2029.3	2135.3	2076.7	2056.5
30°	2040.0	1772.8	1633.0	1639.0	1681.6	1868.8	2102.2	2263.3	2204.6	2173.2
32.5°	2131.2	1833.2	1714.2	1739.6	1771.0	1947.6	2208.8	2401.9	2357.4	2311.2
35°	2251.4	1999.1	1954.1	2062.5	2032.8	2119.9	2337.3	2570.1	2516.2	2475.9
37.5°	2411.9	2339.1	2380.5	2529.8	2458.1	2445.7	2494.3	2722.9	2693.3	2653.0
40°	2637.0	2651.8	2728.2	2924.3	2820.6	2740.7	2686.8	2837.8	2847.9	2798.1
42.5°	2786.3	2854.4	3038.6	3261.3	3118.6	2927.3	2847.9	2984.7	2985.3	2940.3
45°	2842.0	3020.3	3405.3	3661.7	3423.0	3033.9	2936.7	3184.3	3178.4	3126.9
47.5°	2821.8	3160.0	3786.1	4178.2	3814.0	3109.7	2924.3	3468.6	3516.6	3438.4
50°	2779.8	3300.4	4231.0	4810.8	4293.7	3190.2	2905.3	3783.8	3863.1	3802.7
52.5°	2822.4	3456.8	4756.9	5464.8	4895.5	3318.8	3033.3	4188.3	4174.1	4101.2
55°	2957.5	3641.6	5396.1	6286.3	5556.6	3536.2	3362.0	4573.9	4429.4	4342.3
57.5°	2950.9	3773.7	5956.4	6936.1	6131.7	3714.5	3476.3	4614.8	4322.8	4212.6
60°	2678.5	3713.3	6169.6	7347.2	6305.3	3616.1	3100.2	4122.0	3647.5	3532.0
62.5°	1999.1	3295.1	5756.2	6832.4	5814.2	3123.3	2331.4	2958.6	2621.0	2426.2
65°	1278.8	2577.8	4839.3	5535.2	4792.5	2388.8	1388.4	1586.2	1242.7	1187.0
67.5°	544.3	1819.6	3761.8	3699.6	3585.3	1547.7	536.1	446.6	332.9	327.0
70°	180.1	1238.0	2318.9	2467.6	2141.2	1066.2	177.1	149.9	149.3	143.9
72.5°	117.9	664.6	1305.5	1453.6	1377.7	613.6	107.2	100.1	102.5	100.1
75°	70.5	144.5	219.8	285.5	219.8	103.1	64.6	63.4	64.6	61.6
77.5°	41.5	40.3	39.1	39.1	38.5	35.5	32.6	31.4	32.0	32.6
80°	26.7	25.5	24.3	23.7	20.7	19.5	18.4	17.2	17.2	17.8
82.5°	17.2	16.0	14.8	13.0	10.7	8.9	8.3	7.1	7.1	7.7
85°	8.9	7.1	5.3	4.1	2.4	1.2	0.0	0.0	0.0	0.0
87.5°	1.8	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)