

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: P632817

Luminaire Tested: GWS-SA2D-740-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632817  
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-SA2D-740-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

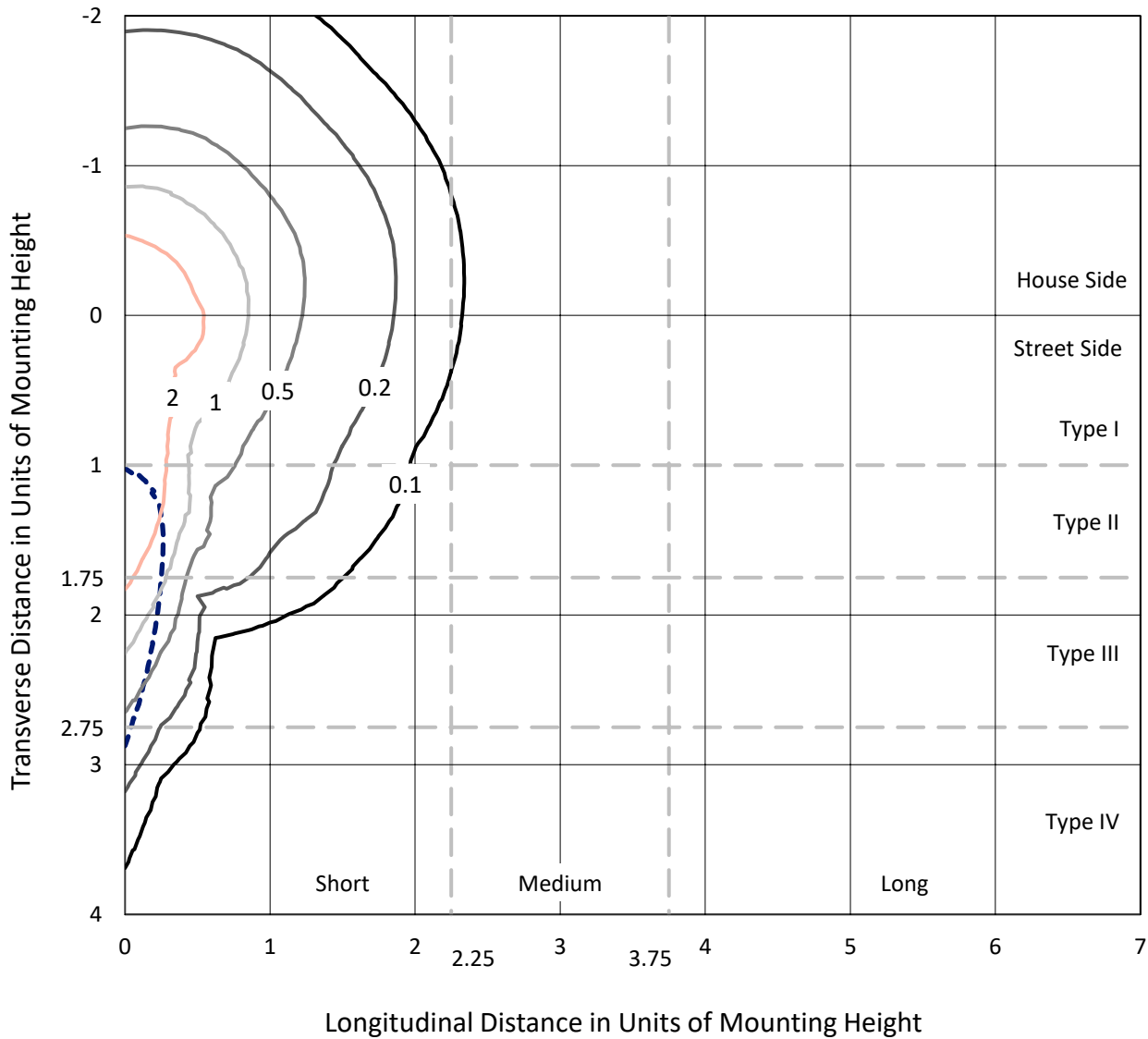
Lumens per Lamp: N/A  
Luminaire Lumens: 10943.3 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

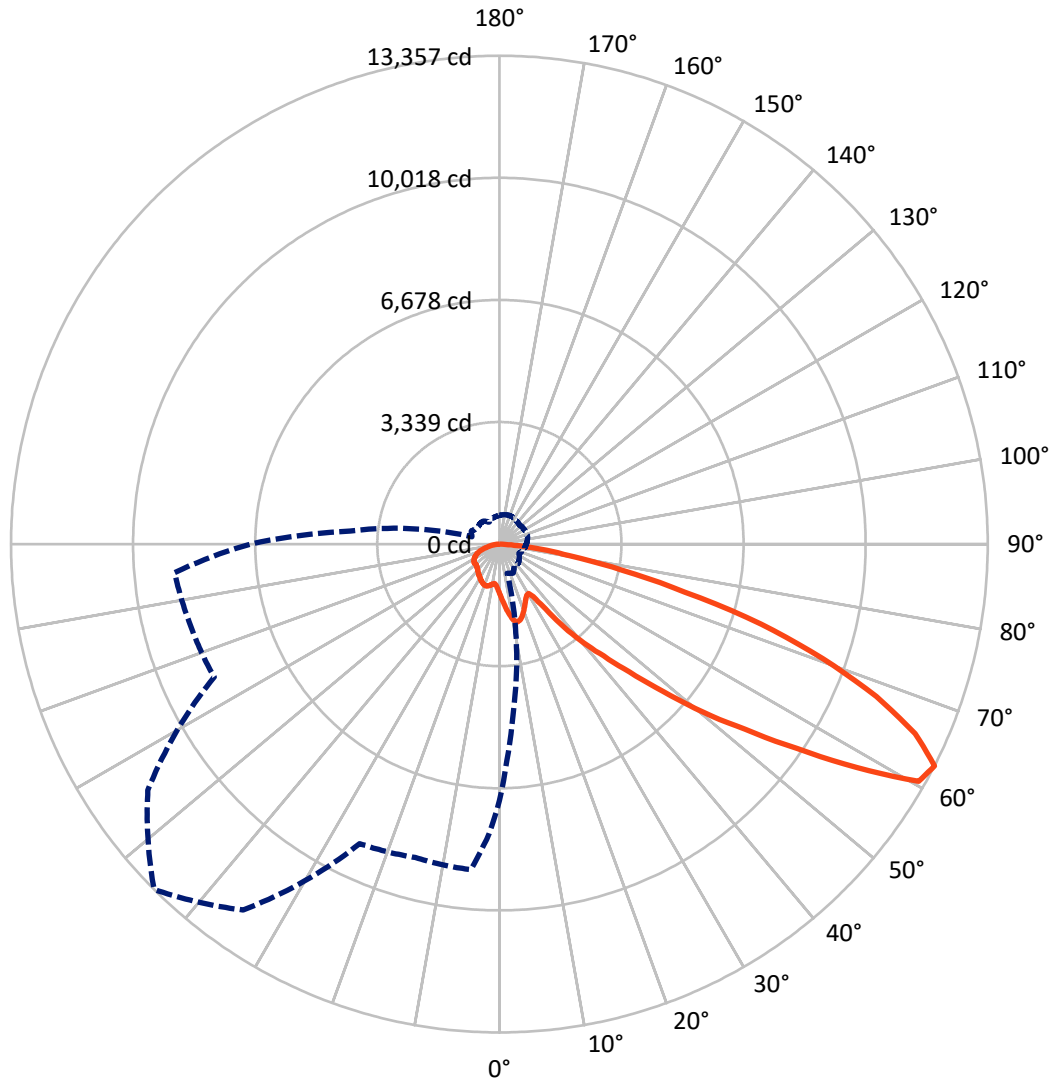
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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	2616.6	0.0	2616.6
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	8326.7	0.0	8326.7
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10943.3	0.0	10943.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.4	1.2
10°-20°	436.8	4.0
20°-30°	687.7	6.3
30°-40°	942.6	8.6
40°-50°	1470.8	13.4
50°-60°	2535.9	23.2
60°-70°	2938.8	26.9
70°-80°	1551.2	14.2
80°-90°	245.0	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°	10943.3	100.0
0°-180°	10943.3	100.0

**Coefficient of Utilization**



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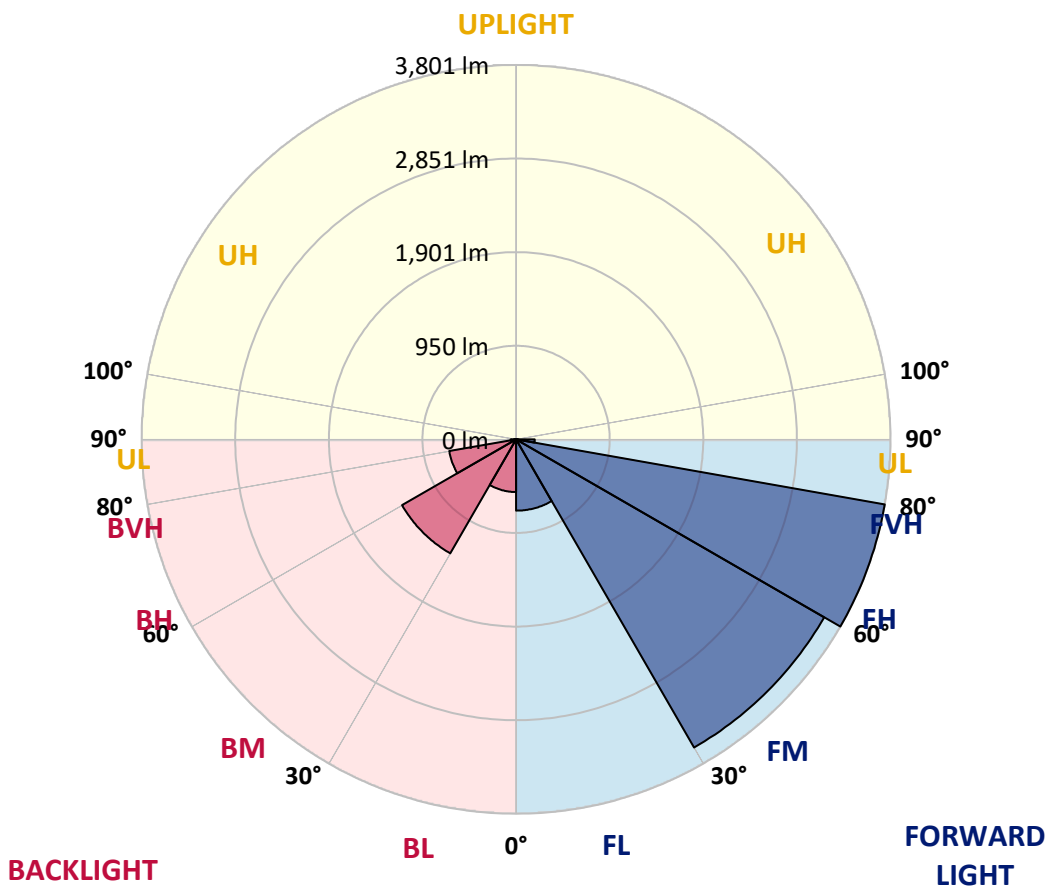
CATALOG NUMBER: GWS-SA2D-740-U-SLL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.8	6.6			
FM (30°-60°)	3612.8	33.0			
FH (60°-80°)	3801.1	34.7			G2/5000
FVH (80°-90°)	189.1	1.7			G2/225
BL (0°-30°)	535.2	4.9	B2/1000		
BM (30°-60°)	1336.5	12.2	B2/2500		
BH (60°-80°)	688.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	55.9	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4
2.5°	1482.4	1476.6	1468.2	1439.7	1422.2	1402.1	1381.1	1356.9	1329.2	1310.0	1290.7
5°	1608.0	1598.8	1578.7	1510.9	1464.0	1413.0	1370.3	1321.7	1274.0	1241.4	1208.7
7.5°	1728.5	1716.8	1685.8	1582.0	1505.9	1432.2	1367.8	1297.4	1226.3	1177.7	1139.2
10°	1849.1	1824.8	1785.4	1649.8	1549.4	1464.0	1390.4	1304.1	1209.5	1143.4	1102.4
12.5°	1941.1	1918.5	1875.8	1711.8	1592.9	1485.8	1402.9	1323.4	1243.0	1172.7	1130.9
15°	2027.4	1998.1	1949.5	1769.5	1628.9	1484.9	1377.8	1308.3	1296.6	1279.0	1224.6
17.5°	2089.3	2062.5	2012.3	1816.4	1649.0	1459.0	1308.3	1267.3	1320.0	1373.6	1321.7
20°	2143.7	2112.7	2061.7	1849.1	1653.2	1401.2	1223.8	1224.6	1307.5	1381.1	1368.6
22.5°	2189.7	2155.4	2110.2	1885.9	1651.5	1320.9	1150.1	1200.3	1283.2	1341.0	1342.6
25°	2246.7	2218.2	2180.5	1940.3	1651.5	1238.8	1096.5	1171.0	1242.2	1290.7	1289.1
27.5°	2316.1	2296.9	2265.9	2023.2	1666.6	1170.2	1066.4	1133.4	1189.5	1231.3	1230.5
30°	2394.0	2376.4	2353.0	2111.1	1692.5	1119.1	1049.7	1086.5	1127.5	1161.0	1161.0
32.5°	2473.5	2466.8	2441.7	2181.4	1672.4	1103.2	1035.4	1039.6	1061.4	1089.0	1086.5
35°	2584.0	2577.3	2545.5	2235.8	1585.4	1080.6	1012.8	991.9	994.4	1012.0	1017.9
37.5°	2745.5	2735.5	2688.6	2299.4	1454.0	1023.7	976.0	941.7	934.2	941.7	952.6
40°	2940.6	2925.5	2861.9	2385.6	1302.5	946.7	918.3	889.8	877.2	879.7	892.3
42.5°	3185.0	3153.2	3062.0	2476.9	1152.6	878.9	853.8	836.2	822.0	820.3	844.6
45°	3581.8	3494.7	3349.9	2558.0	1026.2	842.9	796.0	783.5	771.8	778.5	806.9
47.5°	4274.9	4114.1	3832.0	2627.5	949.2	843.8	750.0	736.6	735.8	749.2	781.0
50°	5227.4	4995.6	4560.3	2674.4	909.0	853.8	722.4	700.6	716.5	729.9	760.0
52.5°	6139.8	5785.7	5267.6	2673.6	891.5	855.5	729.9	667.1	716.5	719.9	748.3
55°	6919.1	6277.9	5458.4	2399.0	866.4	848.8	759.2	641.2	707.3	719.9	742.5
57.5°	7538.5	6591.0	5444.2	1937.8	942.5	811.9	776.8	635.3	680.5	721.5	747.5
60°	7469.9	6447.9	5093.5	1189.5	935.0	746.7	774.3	646.2	635.3	698.9	741.6
62.5°	7013.7	5934.7	4490.0	825.3	878.1	709.0	733.3	665.5	593.5	666.3	713.2
65°	6375.0	5272.6	3741.6	632.8	727.4	710.7	663.8	652.1	556.6	614.4	664.6
67.5°	5530.4	4451.5	2954.0	501.4	507.3	615.2	602.7	579.2	522.3	568.4	613.6
70°	4157.7	3248.6	2032.4	403.5	384.2	514.0	541.6	520.6	488.8	502.2	549.9
72.5°	2929.7	2121.1	1113.3	319.8	296.3	395.1	470.4	467.1	431.9	442.0	488.8
75°	2177.2	1500.8	695.6	252.8	241.1	282.9	394.3	404.3	375.0	386.7	422.7
77.5°	1448.9	971.8	386.7	187.5	187.5	206.8	293.8	340.7	318.9	328.1	353.2
80°	799.4	494.7	193.4	123.0	126.4	142.3	214.3	245.3	246.1	268.7	275.4
82.5°	252.8	157.4	86.2	72.0	67.8	81.2	138.1	175.8	164.1	209.3	192.5
85°	57.8	36.8	15.9	15.9	17.6	26.8	52.7	93.8	119.7	144.0	104.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	36.8	54.4	48.5
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°	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4
2.5°	1279.0	1262.3	1257.3	1243.0	1241.4	1228.0	1222.9	1222.9	1228.8	1228.8	1234.7
5°	1195.3	1174.4	1162.7	1145.9	1141.7	1131.7	1125.0	1125.8	1133.4	1138.4	1148.4
7.5°	1121.7	1107.4	1099.1	1091.5	1089.8	1088.2	1080.6	1079.8	1082.3	1089.8	1097.4
10°	1090.7	1080.6	1083.2	1089.0	1098.2	1103.2	1096.5	1093.2	1090.7	1095.7	1102.4
12.5°	1120.8	1110.8	1115.8	1125.8	1138.4	1143.4	1140.9	1140.1	1142.6	1161.8	1176.1
15°	1186.9	1167.7	1161.0	1165.2	1175.2	1180.3	1177.7	1181.1	1197.0	1247.2	1283.2
17.5°	1269.0	1222.1	1195.3	1187.8	1192.0	1196.2	1196.2	1204.5	1232.1	1305.8	1351.0
20°	1313.3	1252.2	1207.0	1188.6	1190.3	1194.5	1194.5	1206.2	1237.2	1315.9	1345.2
22.5°	1301.6	1245.5	1190.3	1170.2	1171.0	1174.4	1174.4	1184.4	1212.1	1281.5	1294.9
25°	1255.6	1206.2	1151.8	1134.2	1135.9	1141.7	1140.1	1145.9	1166.9	1223.8	1231.3
27.5°	1200.3	1156.8	1103.2	1089.8	1097.4	1109.1	1099.1	1099.9	1119.1	1166.9	1167.7
30°	1140.9	1104.9	1057.2	1047.2	1061.4	1067.2	1058.0	1058.0	1077.3	1109.9	1109.1
32.5°	1076.5	1053.9	1019.5	1008.7	1024.6	1033.8	1022.0	1023.7	1038.8	1060.6	1052.2
35°	1016.2	1004.5	988.6	981.0	991.1	999.4	991.9	995.3	1009.5	1015.4	1003.6
37.5°	958.4	956.8	958.4	958.4	960.9	963.5	958.4	966.8	979.4	971.8	958.4
40°	908.2	914.9	930.8	926.6	924.1	926.6	923.3	937.5	950.1	936.7	920.8
42.5°	866.4	878.9	903.2	903.2	898.2	899.8	898.2	915.7	924.9	906.5	889.0
45°	830.4	848.8	879.7	883.9	875.6	875.6	878.9	900.7	904.0	878.9	860.5
47.5°	805.2	827.8	863.0	870.5	858.0	857.1	866.4	889.8	889.8	860.5	839.6
50°	787.7	812.8	854.6	864.7	852.1	848.8	863.8	886.4	881.4	846.3	825.3
52.5°	776.0	801.9	853.8	868.0	859.7	856.3	871.4	887.3	874.7	837.1	815.3
55°	768.4	796.9	856.3	868.0	858.8	853.0	868.0	882.3	875.6	832.0	811.1
57.5°	772.6	801.1	853.0	858.8	847.9	837.9	855.5	875.6	873.1	833.7	812.8
60°	765.9	791.9	834.5	836.2	817.8	801.9	827.8	858.0	858.0	827.8	809.4
62.5°	734.9	760.9	798.6	800.2	779.3	761.7	791.9	827.8	827.0	802.7	783.5
65°	683.9	708.2	750.8	755.0	734.1	715.7	746.7	780.1	782.6	760.9	744.1
67.5°	627.8	649.6	681.4	698.1	680.5	661.3	689.7	721.5	720.7	694.8	677.2
70°	560.8	580.9	610.2	624.4	613.6	595.1	621.1	637.8	630.3	617.7	606.0
72.5°	494.7	514.0	541.6	541.6	529.9	512.3	519.8	549.9	559.2	549.9	542.4
75°	425.2	442.0	461.2	465.4	439.5	407.6	442.8	468.8	479.6	475.4	466.2
77.5°	354.1	366.6	395.1	387.6	339.0	322.3	350.7	389.2	396.8	394.3	381.7
80°	272.9	280.4	310.5	295.5	257.8	246.9	259.5	289.6	291.3	282.9	267.0
82.5°	183.3	193.4	213.4	184.2	183.3	173.3	163.2	166.6	181.6	180.0	169.1
85°	93.8	98.8	118.0	110.5	94.6	82.0	77.8	82.9	74.5	67.8	58.6
87.5°	39.3	42.7	58.6	32.6	10.0	0.0	0.0	5.0	7.5	10.9	11.7
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°	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4
2.5°	1248.1	1257.3	1279.9	1308.3	1335.9	1364.4	1395.4	1414.6	1438.1	1468.2	1469.0
5°	1161.0	1181.9	1214.6	1258.1	1303.3	1355.2	1415.5	1465.7	1526.0	1573.7	1592.9
7.5°	1107.4	1137.6	1178.6	1233.8	1293.3	1357.7	1436.4	1520.9	1619.7	1683.3	1721.0
10°	1112.4	1158.5	1199.5	1246.4	1299.9	1369.4	1470.7	1582.9	1704.2	1788.0	1834.8
12.5°	1202.0	1250.6	1243.0	1240.5	1276.5	1361.1	1498.3	1645.7	1793.8	1877.5	1933.6
15°	1315.0	1333.4	1262.3	1208.7	1230.5	1330.9	1513.4	1701.7	1868.3	1970.4	2025.7
17.5°	1372.8	1335.9	1249.7	1169.4	1163.5	1284.9	1520.9	1758.7	1952.0	2054.1	2112.7
20°	1346.0	1292.4	1219.6	1143.4	1101.6	1222.1	1516.7	1803.9	2028.2	2142.0	2189.7
22.5°	1288.2	1241.4	1184.4	1111.6	1051.3	1153.5	1505.9	1849.1	2096.0	2210.7	2252.5
25°	1225.5	1190.3	1143.4	1079.8	1022.9	1093.2	1498.3	1909.3	2173.8	2283.5	2310.3
27.5°	1162.7	1136.7	1098.2	1048.8	1016.2	1051.3	1500.8	1988.0	2274.3	2378.1	2367.2
30°	1100.7	1078.1	1051.3	1029.6	1015.4	1041.3	1494.1	2071.7	2384.8	2481.0	2416.6
32.5°	1042.1	1021.2	1004.5	1007.8	1016.2	1045.5	1459.8	2147.9	2486.1	2568.1	2470.2
35°	991.9	970.1	970.1	981.9	1012.8	1031.3	1371.1	2207.3	2598.2	2680.3	2546.3
37.5°	945.0	925.8	938.3	957.6	986.9	992.7	1257.3	2265.1	2761.5	2838.5	2664.4
40°	904.0	884.8	907.4	931.6	946.7	944.2	1141.7	2345.4	2954.0	3033.5	2820.9
42.5°	871.4	853.8	873.9	904.9	907.4	909.9	1057.2	2422.4	3177.5	3278.8	3090.4
45°	844.6	832.0	842.1	873.1	873.1	911.6	1004.5	2486.9	3514.0	3693.1	3585.1
47.5°	823.7	816.1	821.2	831.2	847.9	941.7	971.0	2536.3	4126.7	4478.3	4369.4
50°	811.9	804.4	811.1	790.2	840.4	956.8	960.1	2574.0	4934.5	5485.2	5350.5
52.5°	801.9	799.4	803.6	755.0	857.1	946.7	951.7	2523.7	5476.0	6476.3	6609.4
55°	798.6	800.2	780.1	729.1	877.2	913.2	926.6	2164.6	5623.3	7330.9	8157.1
57.5°	800.2	795.2	744.1	731.6	878.1	846.3	962.6	1544.4	5409.1	7702.6	9671.4
60°	794.4	769.3	700.6	754.2	839.6	767.6	936.7	1007.0	4844.0	7417.2	9759.2
62.5°	768.4	731.6	662.9	766.7	770.9	720.7	850.4	776.0	4090.7	6806.1	8912.1
65°	730.8	681.4	631.1	740.8	701.5	698.9	639.5	621.9	3289.6	6078.7	8108.6
67.5°	668.8	619.4	607.7	681.4	631.1	619.4	514.0	515.6	2625.0	5303.6	7300.8
70°	598.5	549.1	558.3	616.1	561.7	514.8	416.0	429.4	1991.4	4418.8	6211.8
72.5°	552.5	486.3	487.2	542.4	493.9	416.9	342.4	354.1	1264.0	3330.6	4938.6
75°	466.2	428.6	410.2	439.5	419.4	324.8	287.9	285.4	749.2	2387.3	3698.1
77.5°	389.2	359.9	350.7	362.4	313.1	240.2	231.9	227.7	424.4	1529.3	2423.3
80°	282.1	274.6	273.7	279.6	241.1	176.6	176.6	177.5	228.5	830.4	1366.1
82.5°	179.1	195.9	173.3	192.5	164.1	125.6	117.2	133.1	131.4	354.1	575.9
85°	74.5	102.1	95.4	101.3	77.8	68.6	73.7	79.5	76.2	136.4	224.3
87.5°	14.2	16.7	18.4	17.6	17.6	21.8	24.3	29.3	29.3	39.3	67.8
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: P632817

CATALOG NUMBER: GWS-SA2D-740-U-SLL-W

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4	1364.4
2.5°	1500.8	1525.1	1520.1	1531.0	1516.7	1521.8	1493.3	1485.8	1480.8	1482.4
5°	1654.9	1704.2	1713.5	1731.9	1719.3	1719.3	1669.1	1631.4	1618.0	1608.0
7.5°	1811.4	1882.5	1929.4	1934.4	1927.7	1914.3	1841.5	1773.7	1749.4	1728.5
10°	1950.3	2035.7	2088.5	2113.6	2101.0	2080.1	1989.7	1896.8	1867.5	1849.1
12.5°	2056.6	2132.0	2167.1	2183.9	2182.2	2174.7	2101.0	2000.6	1969.6	1941.1
15°	2125.3	2163.0	2149.6	2148.7	2160.4	2190.6	2168.0	2089.3	2053.3	2027.4
17.5°	2169.7	2133.7	2074.2	2046.6	2071.7	2142.9	2194.8	2150.4	2117.8	2089.3
20°	2185.6	2057.5	1971.3	1920.2	1949.5	2052.5	2180.5	2194.8	2167.1	2143.7
22.5°	2167.1	1964.6	1847.4	1787.1	1815.6	1938.6	2138.7	2230.8	2212.3	2189.7
25°	2121.9	1867.5	1726.8	1672.4	1703.4	1829.0	2064.2	2264.2	2265.1	2246.7
27.5°	2065.9	1777.9	1642.3	1591.2	1621.4	1738.6	1991.4	2293.5	2322.8	2316.1
30°	2008.9	1724.3	1602.1	1566.1	1588.7	1692.5	1916.9	2323.7	2382.3	2394.0
32.5°	1983.0	1750.3	1696.7	1712.6	1683.3	1719.3	1890.1	2366.4	2454.3	2473.5
35°	2017.3	1980.5	2116.1	2178.9	2075.1	1938.6	1924.4	2430.8	2555.5	2584.0
37.5°	2183.9	2473.5	2676.1	2897.1	2717.1	2416.6	2094.3	2540.5	2700.3	2745.5
40°	2546.3	2903.8	3269.5	3555.0	3282.9	2878.6	2417.4	2703.7	2899.6	2940.6
42.5°	2887.8	3307.2	3811.1	4180.3	3827.0	3256.2	2765.6	2978.2	3162.4	3185.0
45°	3222.7	3703.1	4466.5	4979.7	4500.0	3615.2	3121.4	3442.0	3580.9	3581.8
47.5°	3615.2	4149.3	5288.5	6019.3	5393.2	4012.9	3455.4	4176.1	4369.4	4274.9
50°	4084.8	4592.9	6134.8	7228.8	6482.2	4501.7	3879.8	5070.9	5334.6	5227.4
52.5°	4713.5	5081.8	7067.3	8408.2	7669.1	5058.3	4495.0	6252.8	6339.9	6139.8
55°	5598.2	5787.4	8264.3	9864.7	8994.2	5743.9	5394.8	7736.1	7492.5	6919.1
57.5°	7613.0	6904.0	9801.1	11526.3	10493.3	6989.4	7366.9	9371.7	8505.3	7538.5
60°	9298.9	8260.1	11223.3	13175.3	11778.2	8362.2	9218.5	9656.3	8467.7	7469.9
62.5°	8730.5	8605.8	11736.4	13356.9	12216.8	9037.7	8874.5	8938.9	7915.2	7013.7
65°	7659.9	7938.6	11278.5	12495.6	11730.5	8432.5	8027.4	8276.0	7283.2	6375.0
67.5°	7027.9	7233.0	10464.0	11117.0	10846.6	7777.9	7368.6	7188.6	6302.2	5530.4
70°	6381.7	6551.6	9320.6	9386.8	9468.0	6689.8	6025.1	5489.4	4697.6	4157.7
72.5°	5514.5	5523.7	7875.0	7491.7	7645.7	5235.0	4849.9	4104.1	3419.4	2929.7
75°	4626.4	4373.6	6233.6	5236.6	5545.5	4072.3	4027.1	3092.9	2579.0	2177.2
77.5°	3527.4	3231.9	4553.6	3443.7	3894.8	2712.1	3027.6	2097.7	1814.7	1448.9
80°	2368.0	2183.9	2516.2	1943.6	2548.0	1869.1	1974.6	1188.6	1030.4	799.4
82.5°	1248.9	1066.4	1555.3	1152.6	1536.8	1027.1	740.8	367.5	313.1	252.8
85°	483.8	560.0	762.6	410.2	596.0	366.6	214.3	91.2	76.2	57.8
87.5°	93.8	144.8	79.5	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)