

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: P632100

Luminaire Tested: GWS-SA2C-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632100
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-SA2C-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

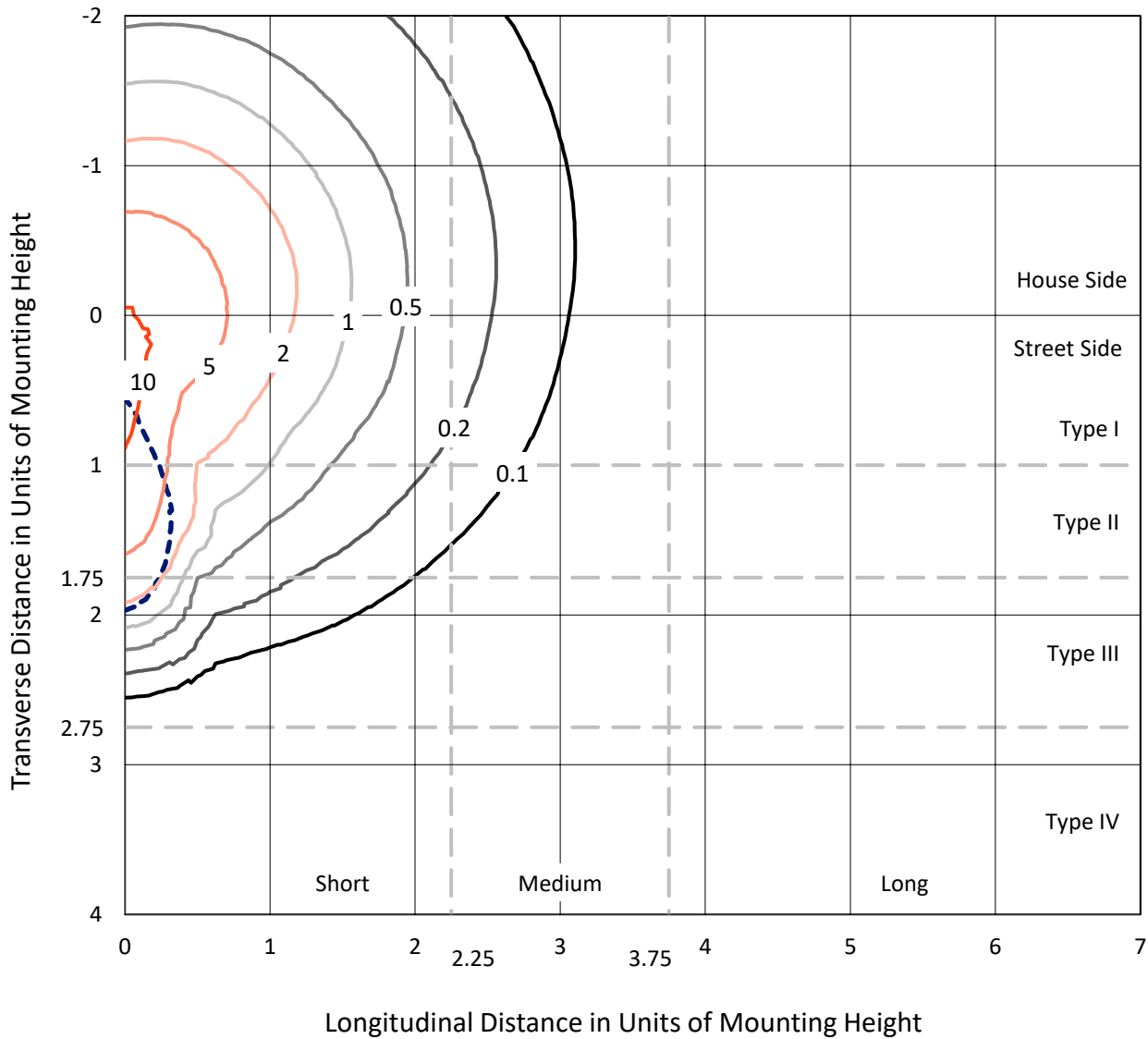
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632100
 CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

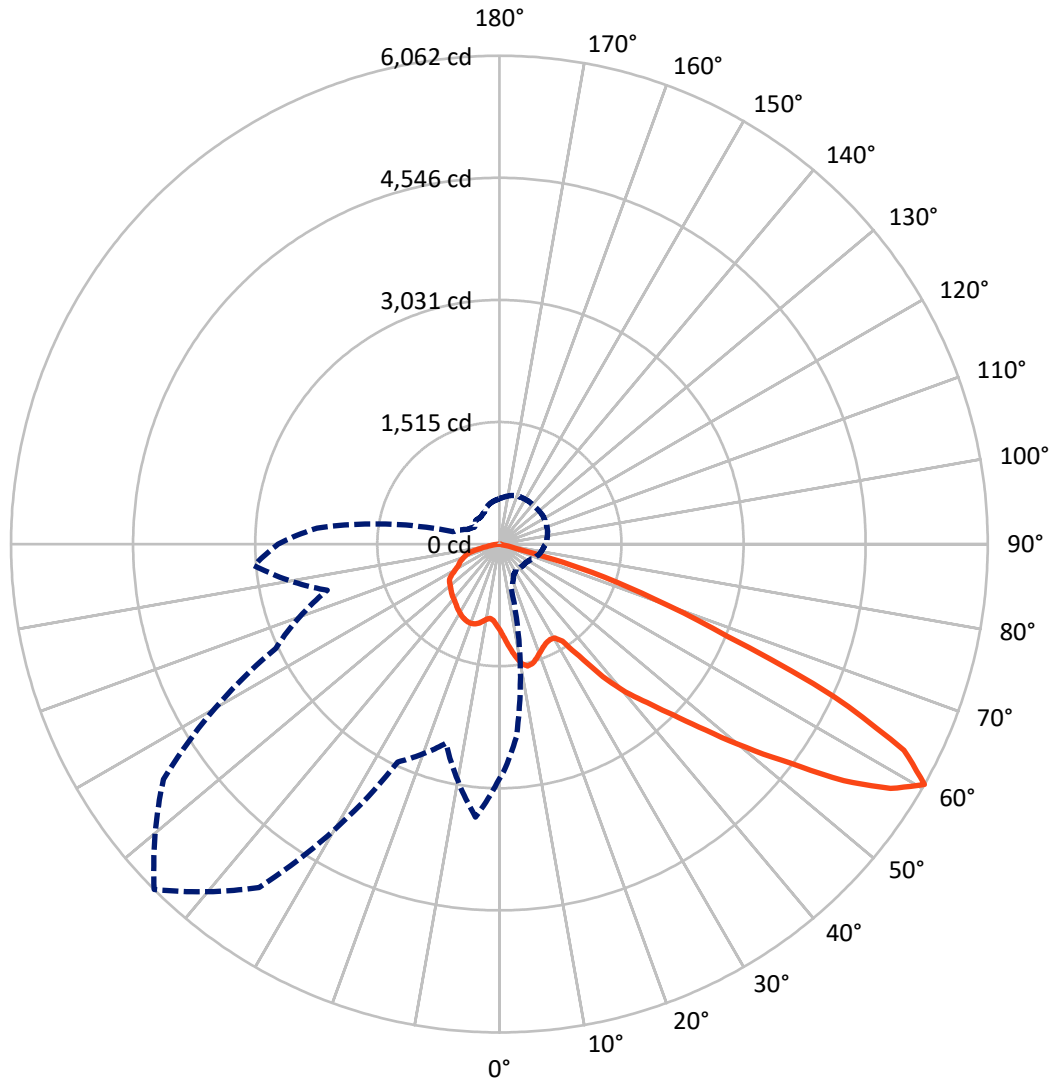
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P632100
CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632100

CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1815.3	0.0	1815.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	3491.2	0.0	3491.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	5306.5	0.0	5306.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	2.0
10°-20°	335.4	6.3
20°-30°	546.2	10.3
30°-40°	767.3	14.5
40°-50°	1050.0	19.8
50°-60°	1347.1	25.4
60°-70°	907.1	17.1
70°-80°	226.8	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°	5306.5	100.0
0°-180°	5306.5	100.0

Coefficient of Utilization



REPORT NUMBER: P632100

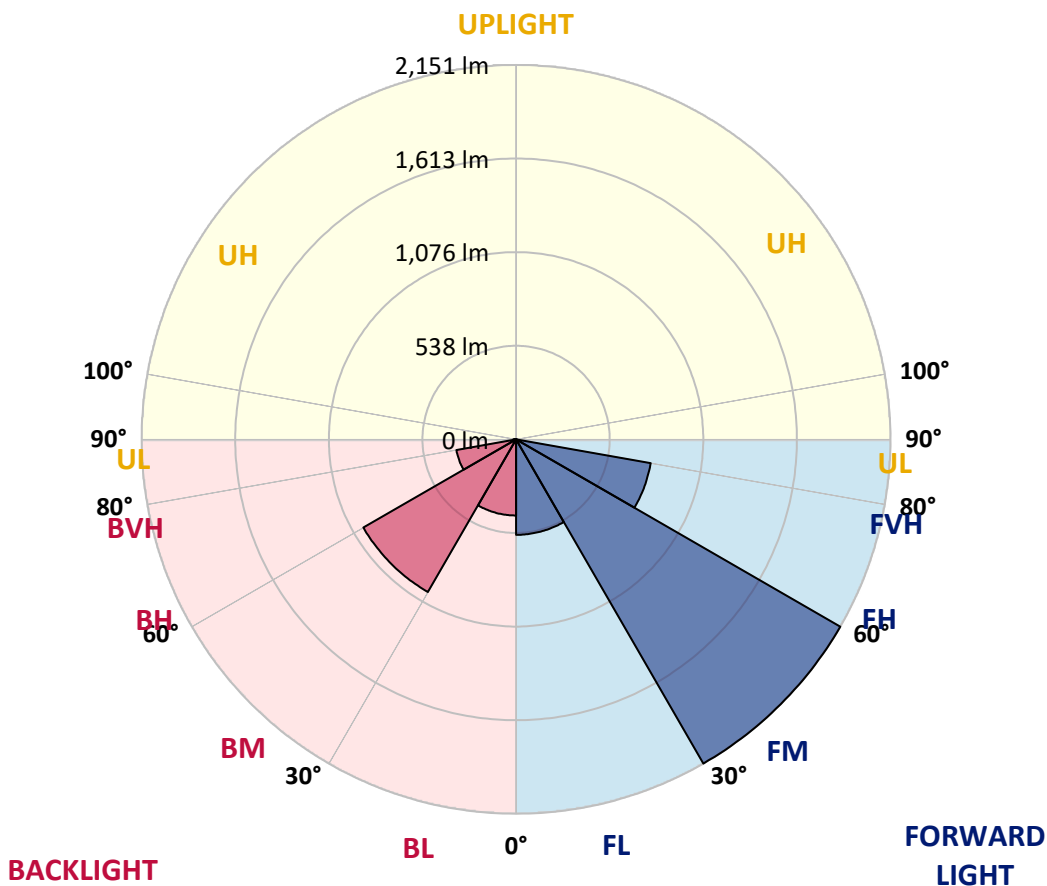
CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.6	10.3			
FM (30°-60°)	2151.3	40.5			
FH (60°-80°)	785.6	14.8			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	437.6	8.2	B1/500		
BM (30°-60°)	1013.1	19.1	B2/2500		
BH (60°-80°)	348.3	6.6	B1/500		G1/500
BVH (80°-90°)	16.4	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: P632100

CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1132.3	1129.9	1127.4	1108.4	1103.5	1089.8	1080.0	1067.8	1050.2	1040.5	1032.1
5°	1203.2	1199.3	1186.1	1147.0	1121.6	1093.7	1070.8	1045.3	1018.5	1000.9	987.2
7.5°	1270.1	1269.2	1246.7	1182.2	1141.1	1101.1	1069.8	1032.6	994.0	967.6	950.0
10°	1332.2	1324.9	1298.0	1213.9	1160.2	1114.2	1080.5	1039.5	994.5	958.8	935.4
12.5°	1386.9	1377.7	1340.5	1243.3	1176.8	1120.1	1083.5	1049.7	1019.9	990.1	963.2
15°	1431.9	1420.7	1383.0	1270.6	1191.5	1116.7	1065.4	1039.0	1049.3	1062.4	1032.6
17.5°	1473.9	1462.2	1416.3	1290.7	1195.9	1095.7	1020.9	1009.7	1061.5	1121.6	1107.9
20°	1509.1	1495.9	1442.7	1300.4	1188.0	1055.6	963.2	982.8	1051.2	1123.0	1145.0
22.5°	1547.2	1536.5	1472.5	1314.6	1178.3	1000.4	914.9	962.7	1033.6	1096.7	1129.9
25°	1608.3	1595.1	1518.9	1339.5	1173.4	948.6	880.2	943.2	1009.2	1066.4	1092.3
27.5°	1696.8	1672.3	1582.4	1383.0	1178.8	899.7	858.2	919.3	980.8	1029.7	1050.7
30°	1793.1	1763.7	1652.8	1428.0	1186.6	869.9	846.4	891.9	937.3	986.2	1009.2
32.5°	1906.9	1881.0	1728.1	1461.7	1170.0	856.2	837.6	862.1	898.2	937.3	956.4
35°	2042.8	1996.4	1810.2	1489.1	1116.2	836.2	829.8	829.3	848.4	886.5	908.0
37.5°	2188.9	2139.1	1911.3	1518.4	1032.6	804.4	811.3	790.7	808.3	838.6	863.1
40°	2308.6	2256.4	2013.5	1558.5	928.1	754.6	770.2	748.2	759.0	790.2	817.6
42.5°	2425.9	2370.2	2108.8	1603.9	826.9	705.7	713.5	705.2	708.6	741.4	779.5
45°	2579.9	2517.3	2226.1	1636.2	736.0	667.1	659.8	645.6	663.7	706.2	746.7
47.5°	2836.9	2762.2	2418.1	1657.2	670.0	645.1	611.4	603.1	625.5	672.9	715.0
50°	3137.5	3073.0	2725.0	1656.2	620.7	626.5	564.5	557.1	594.3	642.2	686.6
52.5°	3383.8	3318.3	2987.5	1607.4	580.1	586.9	537.1	516.6	567.4	611.9	656.3
55°	3582.7	3508.9	3108.2	1403.1	528.8	523.9	507.3	469.6	533.7	581.6	623.1
57.5°	3475.7	3387.7	2962.0	1066.8	476.0	445.2	456.0	428.1	487.7	547.8	587.9
60°	2914.1	2835.0	2406.4	567.9	418.8	371.9	394.4	398.8	437.4	507.3	548.3
62.5°	2001.7	1944.1	1630.8	344.5	330.4	298.6	333.8	365.6	394.4	453.5	489.2
65°	979.4	962.3	815.6	220.9	231.2	241.4	276.6	315.2	357.7	409.5	447.2
67.5°	269.8	271.7	247.3	172.5	182.3	210.6	238.5	269.3	311.8	359.7	397.8
70°	118.8	120.7	124.6	132.9	151.5	177.4	206.2	238.0	277.1	317.2	353.8
72.5°	82.6	84.5	90.4	101.2	117.8	142.2	169.6	199.9	240.4	274.2	304.5
75°	50.8	52.3	57.7	67.0	78.2	96.8	123.6	151.5	187.2	218.0	244.8
77.5°	26.9	25.9	29.3	35.7	45.4	55.2	73.3	90.9	116.3	141.2	163.7
80°	14.7	14.2	16.1	19.5	22.5	30.3	42.5	54.2	68.9	83.1	95.3
82.5°	6.4	5.9	6.4	8.3	10.3	14.7	21.5	29.8	38.1	47.9	55.7
85°	0.0	0.0	0.0	0.5	2.4	3.9	7.3	10.8	15.6	21.5	26.4
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: P632100

CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1027.3	1015.0	1014.1	1004.3	1005.3	1005.8	996.0	992.1	995.5	999.4	997.4
5°	982.3	969.6	964.2	954.9	954.0	949.6	945.6	940.8	944.2	947.6	949.6
7.5°	943.2	934.9	931.5	929.0	930.0	928.1	920.2	915.8	915.3	916.8	918.8
10°	930.5	923.7	928.1	934.9	939.8	943.2	934.9	927.6	920.7	917.8	917.8
12.5°	957.9	949.1	957.9	965.2	975.0	977.4	968.1	960.3	957.9	960.8	966.7
15°	1018.5	997.9	997.4	1001.8	1009.7	1013.6	1004.8	1000.9	1000.9	1019.4	1034.1
17.5°	1079.1	1045.3	1031.2	1028.7	1033.6	1035.1	1027.7	1024.3	1033.1	1069.3	1096.7
20°	1121.6	1080.5	1049.7	1043.9	1045.3	1045.8	1040.0	1037.5	1050.2	1094.2	1117.2
22.5°	1117.2	1086.9	1049.3	1041.9	1044.4	1043.4	1038.0	1037.0	1047.3	1085.4	1096.2
25°	1086.9	1063.4	1031.7	1026.8	1030.7	1030.2	1024.8	1022.4	1026.8	1052.2	1053.2
27.5°	1052.2	1031.7	1004.3	1002.8	1009.2	1012.6	1003.3	996.0	994.5	1011.6	1007.7
30°	1010.6	995.5	973.5	974.5	986.2	988.2	976.9	966.2	963.2	972.5	967.1
32.5°	961.3	956.4	944.7	947.1	958.4	962.3	950.5	939.3	935.9	938.8	927.6
35°	919.3	917.3	918.3	922.7	932.4	935.4	925.6	916.8	911.9	901.7	887.0
37.5°	875.8	881.1	895.3	903.6	909.0	908.0	902.6	896.3	888.5	869.4	851.3
40°	835.2	848.9	874.3	883.6	885.5	886.0	882.1	876.7	867.0	841.6	821.0
42.5°	803.9	819.1	852.8	867.0	867.9	868.9	865.0	860.6	846.9	813.2	793.2
45°	771.2	791.2	830.8	847.9	846.9	846.4	843.0	841.1	824.9	785.8	763.8
47.5°	743.3	766.8	809.3	824.0	823.5	823.0	820.5	820.5	804.4	761.9	737.0
50°	716.0	742.8	787.3	799.5	800.5	799.5	798.5	800.0	781.0	735.5	711.1
52.5°	686.1	716.4	762.9	774.1	780.0	782.4	782.4	779.0	756.5	709.1	682.2
55°	653.4	682.2	736.0	751.1	756.0	760.4	760.4	753.6	732.6	684.7	655.8
57.5°	612.8	638.2	680.8	695.9	707.6	710.6	710.6	699.3	682.2	636.3	612.8
60°	568.9	590.8	619.7	635.8	644.6	638.7	643.1	640.2	626.5	584.0	564.5
62.5°	510.2	532.7	564.5	581.1	585.0	579.1	585.0	584.5	565.9	527.8	504.3
65°	468.2	490.2	521.4	543.0	549.3	547.8	551.7	545.9	522.9	486.8	464.3
67.5°	418.3	441.8	478.0	501.9	515.1	516.6	521.9	509.7	486.3	446.7	418.3
70°	370.9	391.0	418.8	441.3	459.9	469.2	470.1	452.5	423.2	390.5	369.9
72.5°	321.1	341.6	375.3	399.8	423.2	434.0	434.0	412.5	380.7	344.5	322.5
75°	260.5	279.5	310.3	336.7	363.6	377.3	376.8	358.2	323.0	288.8	265.9
77.5°	176.4	190.6	210.1	230.2	234.1	244.8	250.2	226.8	207.2	188.6	168.1
80°	102.6	111.4	122.2	133.4	135.9	139.3	130.5	121.7	111.4	99.2	89.9
82.5°	60.1	66.0	71.4	80.1	81.6	82.6	74.8	70.9	62.6	55.2	49.4
85°	29.3	31.3	36.2	40.6	38.6	37.6	34.2	30.3	26.9	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: P632100

CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1003.8	1012.1	1022.4	1036.1	1051.7	1068.3	1084.4	1096.7	1108.9	1127.0	1124.0
5°	952.5	966.7	982.8	1003.8	1029.2	1058.0	1090.3	1122.6	1157.3	1186.6	1199.3
7.5°	922.7	938.3	957.4	984.7	1017.5	1052.7	1098.1	1150.4	1206.6	1245.2	1269.2
10°	922.7	942.7	967.6	994.0	1022.9	1059.0	1115.2	1180.7	1253.0	1303.9	1331.7
12.5°	975.9	996.0	1001.4	1000.4	1016.5	1056.6	1128.9	1212.5	1299.0	1352.7	1386.9
15°	1059.0	1065.9	1025.3	988.2	990.6	1039.0	1135.3	1237.9	1338.6	1403.1	1440.2
17.5°	1114.7	1096.7	1024.3	959.3	945.6	1009.2	1135.3	1262.3	1380.6	1453.4	1488.1
20°	1119.1	1074.2	999.4	931.5	896.3	969.6	1127.4	1280.9	1421.2	1501.8	1538.9
22.5°	1080.5	1036.1	973.0	907.5	855.7	921.7	1114.7	1295.1	1455.9	1547.2	1593.2
25°	1036.5	999.4	946.1	883.1	827.9	873.3	1103.0	1319.0	1504.2	1608.8	1655.2
27.5°	993.5	962.3	913.9	862.6	812.2	831.3	1095.7	1354.2	1561.9	1696.3	1736.4
30°	951.5	923.2	879.2	843.0	803.9	803.9	1089.3	1394.8	1638.1	1794.5	1834.6
32.5°	909.0	882.1	846.4	824.0	799.0	793.2	1071.7	1432.9	1716.8	1902.0	1943.1
35°	869.4	842.5	815.2	805.9	796.6	784.9	1028.2	1462.7	1793.5	2027.6	2062.8
37.5°	832.3	806.4	785.8	783.4	784.4	762.4	959.8	1487.6	1889.3	2156.2	2174.7
40°	800.0	771.2	755.0	754.6	759.4	726.2	873.3	1523.3	1998.8	2265.1	2257.3
42.5°	771.2	740.9	721.3	725.7	722.8	690.1	788.8	1556.0	2094.1	2367.3	2351.6
45°	742.8	713.5	686.1	692.5	689.1	667.6	716.9	1580.0	2199.7	2490.0	2491.9
47.5°	715.5	686.6	659.3	651.4	651.0	660.7	661.7	1587.8	2371.7	2687.4	2642.9
50°	690.1	661.2	632.9	606.5	616.7	647.0	620.7	1581.9	2629.2	2905.4	2781.2
52.5°	663.7	636.3	605.0	557.6	584.5	614.3	584.0	1560.9	2786.6	3097.9	3023.6
55°	633.4	607.5	564.9	507.3	540.0	546.4	546.4	1357.6	2853.6	3288.5	3334.4
57.5°	592.8	558.6	491.1	444.7	474.0	449.6	506.3	950.0	2743.1	3228.4	3406.8
60°	546.9	510.2	438.9	405.6	414.4	371.4	431.5	595.7	2273.5	2747.0	3055.9
62.5°	486.3	452.5	393.4	367.5	349.4	303.0	347.5	376.8	1558.5	2039.9	2250.5
65°	445.7	408.6	355.8	321.6	284.4	243.9	230.7	247.3	838.1	1141.6	1283.8
67.5°	397.8	361.2	311.3	268.3	238.5	209.2	186.2	180.3	287.4	380.2	411.5
70°	352.4	317.2	275.6	235.6	205.7	176.9	154.4	138.3	132.9	132.0	130.0
72.5°	305.9	273.2	238.5	201.3	168.6	142.2	122.2	103.6	95.8	93.3	90.9
75°	250.7	224.8	190.1	150.0	123.6	99.2	83.6	71.4	64.5	62.1	59.1
77.5°	161.3	149.5	119.2	96.8	74.8	59.1	50.8	43.0	38.6	37.6	35.2
80°	86.0	80.1	66.0	55.7	44.5	36.2	31.8	27.4	24.9	23.9	23.0
82.5°	47.9	43.5	36.7	32.3	25.9	22.0	19.5	17.6	16.1	15.6	15.1
85°	21.5	18.6	14.7	13.7	12.2	11.2	10.8	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: P632100

CATALOG NUMBER: GWS-SA2C-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1142.1	1156.8	1158.2	1163.1	1156.8	1155.3	1145.0	1139.2	1133.8	1132.3
5°	1231.0	1260.4	1272.1	1280.4	1272.6	1268.7	1246.2	1222.7	1209.5	1203.2
7.5°	1322.4	1366.4	1389.4	1399.7	1400.6	1383.0	1344.4	1300.4	1278.5	1270.1
10°	1404.1	1458.3	1488.6	1508.1	1501.3	1479.8	1427.0	1367.4	1339.5	1332.2
12.5°	1464.6	1516.5	1539.9	1552.6	1552.1	1540.4	1490.6	1426.0	1394.3	1386.9
15°	1503.7	1534.5	1536.0	1538.9	1547.2	1562.9	1537.0	1477.4	1442.2	1431.9
17.5°	1534.5	1522.3	1499.3	1491.5	1510.1	1553.6	1569.2	1520.9	1482.7	1473.9
20°	1554.1	1492.5	1451.9	1436.8	1458.3	1529.2	1588.8	1559.9	1520.4	1509.1
22.5°	1569.2	1464.6	1399.2	1388.9	1411.4	1502.8	1608.8	1606.4	1562.9	1547.2
25°	1593.2	1446.1	1362.0	1354.7	1375.7	1490.1	1635.7	1669.4	1630.8	1608.3
27.5°	1630.8	1444.1	1343.0	1340.5	1369.4	1501.3	1674.3	1761.8	1713.4	1696.8
30°	1683.1	1462.7	1347.4	1352.2	1387.4	1541.9	1734.4	1867.3	1819.0	1793.1
32.5°	1758.4	1512.5	1414.3	1435.3	1461.2	1606.9	1822.4	1981.7	1945.0	1906.9
35°	1857.6	1649.4	1612.2	1701.7	1677.2	1749.1	1928.4	2120.5	2076.0	2042.8
37.5°	1990.0	1929.9	1964.1	2087.3	2028.1	2017.9	2057.9	2246.6	2222.1	2188.9
40°	2175.7	2187.9	2251.0	2412.7	2327.2	2261.2	2216.8	2341.4	2349.7	2308.6
42.5°	2298.9	2355.1	2507.1	2690.8	2573.0	2415.2	2349.7	2462.6	2463.1	2425.9
45°	2344.8	2491.9	2809.6	3021.2	2824.2	2503.1	2423.0	2627.3	2622.4	2579.9
47.5°	2328.2	2607.2	3123.8	3447.3	3146.8	2565.7	2412.7	2861.9	2901.4	2836.9
50°	2293.5	2723.1	3490.8	3969.3	3542.6	2632.2	2397.1	3121.8	3187.3	3137.5
52.5°	2328.7	2852.1	3924.8	4508.8	4039.1	2738.2	2502.7	3455.6	3443.9	3383.8
55°	2440.1	3004.6	4452.1	5186.6	4584.5	2917.6	2773.9	3773.8	3654.5	3582.7
57.5°	2434.7	3113.5	4914.4	5722.7	5059.1	3064.7	2868.2	3807.5	3566.6	3475.7
60°	2209.9	3063.7	5090.4	6061.9	5202.3	2983.5	2557.9	3400.9	3009.4	2914.1
62.5°	1649.4	2718.7	4749.2	5637.2	4797.1	2576.9	1923.5	2441.1	2162.5	2001.7
65°	1055.1	2126.8	3992.7	4567.0	3954.1	1970.9	1145.5	1308.8	1025.3	979.4
67.5°	449.1	1501.3	3103.8	3052.5	2958.1	1277.0	442.3	368.5	274.7	269.8
70°	148.6	1021.4	1913.3	2035.9	1766.7	879.7	146.1	123.6	123.2	118.8
72.5°	97.3	548.3	1077.1	1199.3	1136.7	506.3	88.5	82.6	84.5	82.6
75°	58.2	119.2	181.3	235.6	181.3	85.0	53.3	52.3	53.3	50.8
77.5°	34.2	33.2	32.3	32.3	31.8	29.3	26.9	25.9	26.4	26.9
80°	22.0	21.0	20.0	19.5	17.1	16.1	15.1	14.2	14.2	14.7
82.5°	14.2	13.2	12.2	10.8	8.8	7.3	6.8	5.9	5.9	6.4
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

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