

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: P633254

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7716.8 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

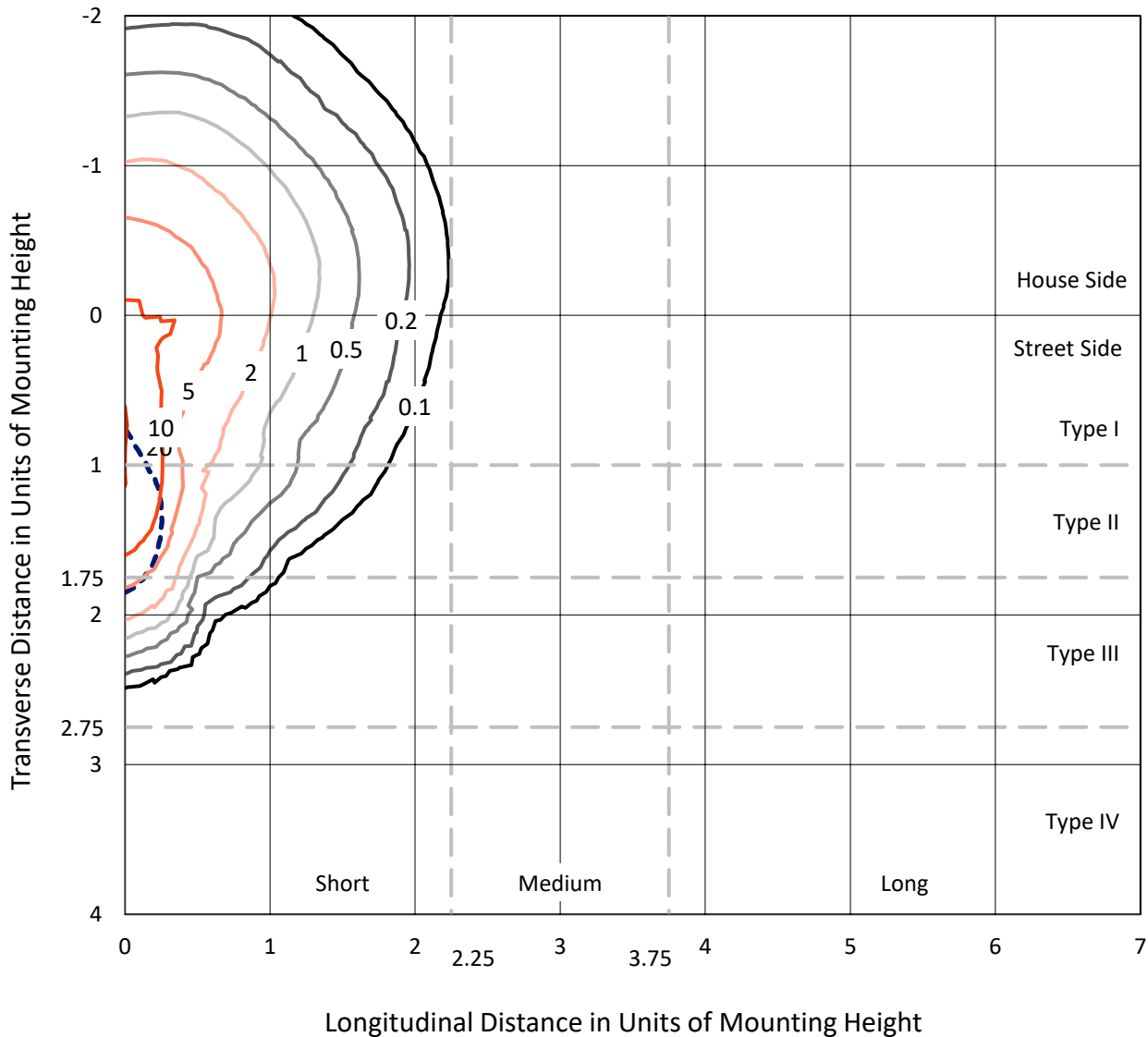
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633254
 CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

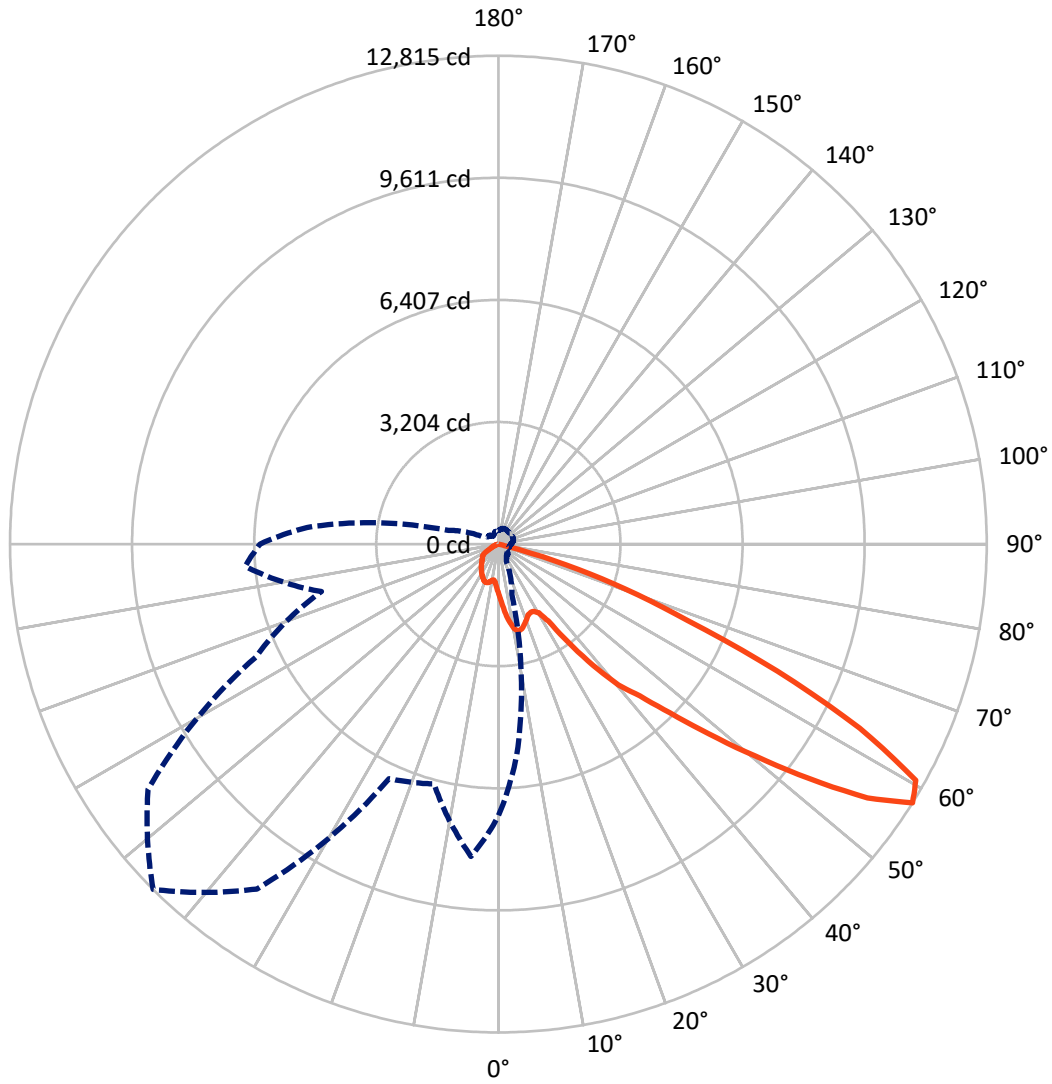
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
 Type III - Short - N/A

REPORT NUMBER: P633254
CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P633254

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1662.5	0.0	1662.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6054.3	0.0	6054.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	7716.8	0.0	7716.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.7
10°-20°	426.4	5.5
20°-30°	692.1	9.0
30°-40°	1062.1	13.8
40°-50°	1696.3	22.0
50°-60°	2375.2	30.8
60°-70°	1217.8	15.8
70°-80°	117.2	1.5
80°-90°	0.0	0.0
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°	7716.8	100.0
0°-180°	7716.8	100.0

Coefficient of Utilization



REPORT NUMBER: P633254

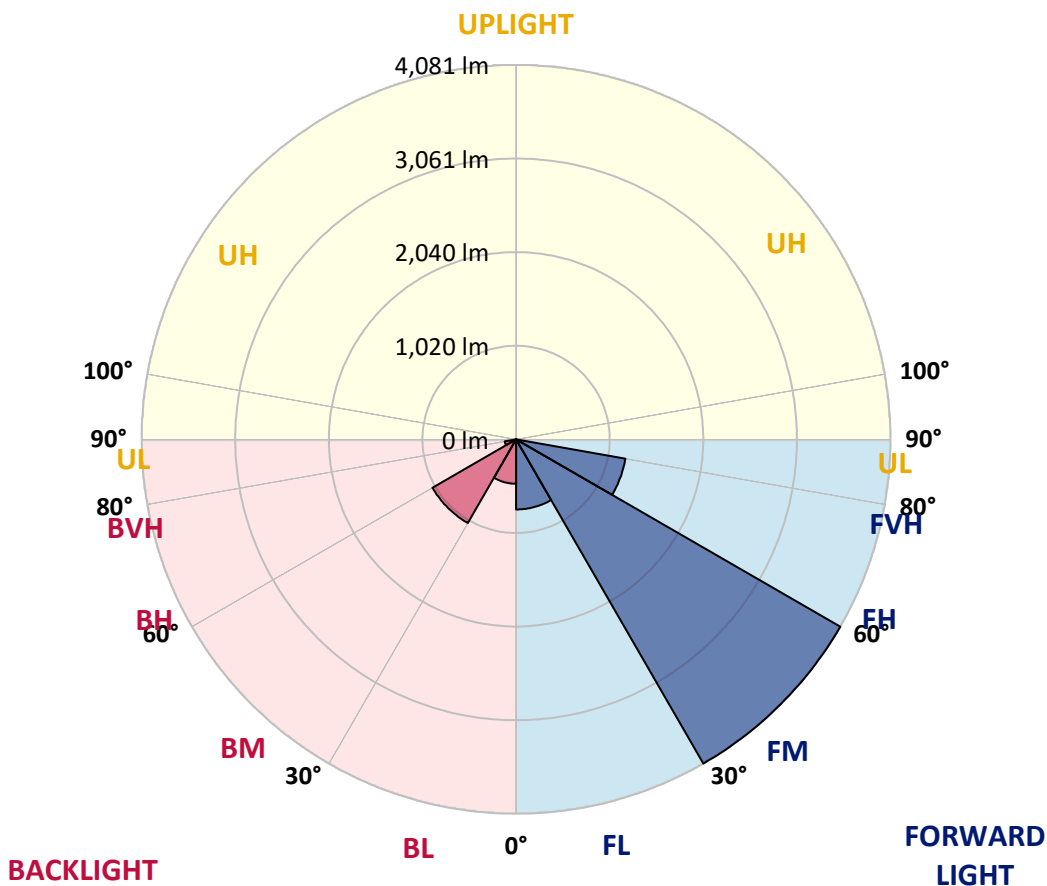
CATALOG NUMBER: GWS-SA2E-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.0	9.9			
FM (30°-60°)	4080.8	52.9			
FH (60°-80°)	1209.5	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	484.1	6.3	B1/500		
BM (30°-60°)	1052.8	13.6	B2/2500		
BH (60°-80°)	125.6	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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: P633254

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1456.7	1453.6	1443.2	1408.2	1386.5	1352.5	1327.7	1295.7	1260.6	1239.0	1217.3
5°	1611.4	1603.1	1575.3	1494.8	1432.9	1365.9	1312.2	1253.4	1190.5	1149.2	1111.1
7.5°	1760.0	1747.6	1710.4	1574.3	1480.4	1384.4	1308.1	1222.5	1133.8	1071.9	1024.4
10°	1905.4	1877.6	1818.8	1651.6	1524.7	1409.2	1319.5	1221.4	1117.3	1038.8	986.2
12.5°	2025.1	2004.5	1924.0	1724.9	1561.9	1414.4	1304.0	1213.2	1143.0	1090.4	1041.9
15°	2128.2	2105.6	2029.2	1790.9	1593.9	1393.7	1239.0	1159.5	1170.9	1191.5	1150.3
17.5°	2223.2	2199.4	2116.9	1845.6	1606.2	1343.2	1148.2	1110.0	1173.0	1250.3	1234.9
20°	2321.2	2294.3	2193.2	1889.9	1602.1	1263.7	1056.4	1067.7	1156.5	1245.2	1253.4
22.5°	2435.7	2407.8	2290.2	1946.7	1599.0	1168.8	977.0	1030.6	1125.5	1200.8	1215.3
25°	2587.3	2554.3	2425.4	2030.2	1607.3	1082.2	920.2	994.5	1072.9	1141.0	1149.2
27.5°	2787.5	2745.2	2581.1	2133.4	1624.8	1014.1	895.5	945.0	1005.8	1066.7	1073.9
30°	3048.5	2994.8	2759.6	2223.2	1616.6	966.6	878.9	895.5	931.6	981.1	982.1
32.5°	3353.8	3280.6	2959.7	2300.5	1545.4	931.6	856.3	844.9	853.2	891.3	898.5
35°	3712.8	3617.9	3180.5	2373.8	1415.4	863.5	815.0	776.8	773.7	792.3	809.8
37.5°	4124.4	4011.0	3459.0	2467.7	1261.7	792.3	754.1	715.9	699.4	708.7	735.6
40°	4504.1	4378.2	3750.0	2581.1	1104.9	728.3	682.9	643.7	624.1	627.2	660.2
42.5°	4949.7	4819.8	4105.9	2729.7	974.9	685.0	608.7	568.4	542.6	557.1	595.2
45°	5626.5	5479.0	4624.8	2858.6	871.7	674.7	543.7	486.9	474.5	499.3	544.7
47.5°	6550.8	6370.3	5337.6	2937.0	784.0	684.0	498.3	420.9	424.0	451.9	497.2
50°	7468.0	7273.0	6161.9	2833.9	711.8	665.4	475.6	369.3	388.9	413.7	454.9
52.5°	8098.3	7844.5	6563.2	2535.7	645.8	595.2	473.5	320.8	358.0	366.2	401.3
55°	8123.0	7810.5	6357.9	1999.3	556.0	502.4	451.9	280.6	323.9	327.0	356.9
57.5°	7120.3	6837.6	5556.3	1373.1	494.1	368.3	360.0	245.5	266.2	292.0	310.5
60°	5417.1	5176.7	4155.4	629.3	375.5	234.2	246.6	211.5	199.1	237.3	255.8
62.5°	3317.7	3164.0	2492.4	278.5	239.3	124.8	149.6	168.2	149.6	164.0	179.5
65°	1317.4	1249.3	946.0	118.6	98.0	62.9	68.1	98.0	105.2	115.5	130.0
67.5°	229.0	216.6	158.9	52.6	40.2	38.2	33.0	45.4	64.0	71.2	82.5
70°	29.9	28.9	25.8	21.7	20.6	18.6	14.4	28.9	43.3	45.4	52.6
72.5°	7.2	6.2	6.2	5.2	6.2	2.1	2.1	15.5	30.9	32.0	37.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	19.6	21.7	25.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P633254

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1199.8	1179.2	1171.9	1161.6	1148.2	1152.3	1133.8	1127.6	1136.9	1149.2	1146.1
5°	1090.4	1067.7	1052.3	1028.5	1024.4	1015.1	1008.9	1000.7	1011.0	1025.4	1028.5
7.5°	1003.8	984.2	968.7	961.5	956.3	952.2	939.8	933.6	933.6	939.8	945.0
10°	966.6	952.2	949.1	951.2	959.4	958.4	947.0	938.8	928.5	923.3	929.5
12.5°	1018.2	994.5	990.4	991.4	1001.7	1000.7	988.3	978.0	975.9	978.0	997.6
15°	1105.9	1069.8	1043.0	1037.8	1043.0	1040.9	1031.6	1025.4	1028.5	1058.4	1091.5
17.5°	1184.3	1128.6	1080.1	1061.5	1060.5	1057.4	1048.1	1046.1	1061.5	1117.3	1165.7
20°	1207.0	1152.3	1083.2	1059.5	1054.3	1051.2	1040.9	1044.0	1063.6	1130.7	1171.9
22.5°	1177.1	1124.5	1052.3	1028.5	1024.4	1023.4	1013.1	1017.2	1033.7	1092.5	1126.5
25°	1120.3	1076.0	1000.7	980.0	980.0	978.0	968.7	970.8	981.1	1032.7	1065.7
27.5°	1051.2	1008.9	946.0	925.4	928.5	931.6	920.2	917.1	925.4	973.9	993.5
30°	971.8	941.9	892.4	873.8	872.8	885.1	869.7	865.5	876.9	915.1	919.2
32.5°	894.4	880.0	844.9	830.5	831.5	833.6	825.3	825.3	835.6	856.3	855.2
35°	819.1	809.8	803.6	793.3	792.3	788.2	788.2	790.2	801.6	808.8	795.4
37.5°	746.9	756.2	763.4	753.1	744.8	744.8	744.8	754.1	764.4	761.3	738.6
40°	682.9	702.5	725.2	713.9	694.3	693.3	697.4	712.9	728.3	709.8	689.1
42.5°	628.3	653.0	685.0	678.8	657.1	654.1	657.1	676.7	689.1	665.4	642.7
45°	574.6	605.6	643.7	643.7	620.0	616.9	617.9	643.7	651.0	623.1	594.2
47.5°	529.2	563.3	603.5	603.5	583.9	577.7	582.9	609.7	614.9	575.6	548.8
50°	485.9	523.0	567.4	564.3	550.9	545.7	555.0	583.9	577.7	534.4	506.5
52.5°	431.2	470.4	531.3	534.4	527.2	528.2	539.5	558.1	540.6	488.0	464.2
55°	381.7	421.9	482.8	499.3	499.3	498.3	503.4	517.9	503.4	440.5	411.6
57.5°	328.1	362.1	412.7	416.8	419.9	408.5	415.7	435.3	428.1	374.5	358.0
60°	269.3	298.1	327.0	330.1	316.7	293.0	306.4	329.1	334.2	294.0	275.4
62.5°	190.9	218.7	252.7	252.7	239.3	215.6	233.1	252.7	245.5	204.3	192.9
65°	142.4	168.2	193.9	205.3	193.9	177.4	190.9	205.3	193.9	159.9	143.4
67.5°	91.8	109.4	124.8	134.1	136.2	134.1	140.3	136.2	122.8	100.1	90.8
70°	55.7	65.0	73.2	81.5	87.7	90.8	93.9	84.6	71.2	58.8	55.7
72.5°	40.2	48.5	55.7	61.9	69.1	71.2	71.2	65.0	52.6	41.3	38.2
75°	27.9	35.1	41.3	45.4	51.6	53.6	53.6	48.5	39.2	29.9	26.8
77.5°	1.0	7.2	7.2	6.2	8.3	10.3	10.3	12.4	11.3	8.3	7.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P633254

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1152.3	1189.5	1199.8	1238.0	1272.0	1306.0	1347.3	1372.1	1409.2	1435.0	1449.4
5°	1038.8	1069.8	1106.9	1163.7	1222.5	1287.5	1365.9	1434.0	1519.6	1582.5	1603.1
7.5°	956.3	996.6	1039.9	1111.1	1191.5	1278.2	1388.6	1500.0	1631.0	1716.6	1771.3
10°	940.8	982.1	1039.9	1110.0	1194.6	1293.7	1428.8	1573.2	1737.3	1841.5	1903.4
12.5°	1015.1	1059.5	1084.2	1116.2	1180.2	1290.6	1463.9	1647.5	1840.4	1953.9	2019.9
15°	1124.5	1163.7	1123.4	1083.2	1124.5	1257.6	1483.5	1709.4	1931.2	2062.2	2130.3
17.5°	1199.8	1202.9	1115.2	1029.6	1040.9	1197.7	1490.7	1771.3	2028.2	2165.4	2236.6
20°	1192.6	1167.8	1079.1	984.2	949.1	1120.3	1482.4	1826.0	2126.2	2269.6	2339.7
22.5°	1136.9	1108.0	1032.7	939.8	871.7	1028.5	1468.0	1875.5	2215.9	2378.9	2445.0
25°	1069.8	1038.8	977.0	895.5	822.2	939.8	1456.7	1943.6	2329.4	2521.3	2572.9
27.5°	991.4	964.6	912.0	853.2	801.6	872.8	1453.6	2033.3	2466.6	2694.6	2730.7
30°	915.1	890.3	849.0	815.0	793.3	833.6	1443.2	2129.3	2630.7	2893.7	2932.9
32.5°	841.8	817.0	791.3	786.1	787.1	819.1	1408.2	2224.2	2825.6	3182.6	3211.5
35°	778.9	750.0	739.7	752.1	774.8	794.4	1309.1	2302.6	3035.0	3497.2	3520.9
37.5°	719.0	690.2	689.1	719.0	743.8	756.2	1192.6	2380.0	3317.7	3817.0	3846.9
40°	664.4	635.5	645.8	681.9	701.5	707.7	1051.2	2497.6	3616.9	4154.4	4137.9
42.5°	617.9	588.0	594.2	640.6	658.2	674.7	921.2	2595.6	3904.7	4474.2	4469.0
45°	572.6	549.9	545.7	596.3	611.8	677.8	826.3	2670.9	4275.1	4881.7	4889.9
47.5°	528.2	510.7	511.7	533.4	571.5	693.3	745.9	2720.4	4812.5	5527.5	5384.1
50°	488.0	474.5	485.9	461.1	545.7	673.7	676.7	2710.1	5412.9	6146.4	5858.6
52.5°	443.6	440.5	445.7	385.8	504.5	594.2	611.8	2572.9	5694.6	6569.4	6405.4
55°	398.2	397.2	355.9	308.5	421.9	474.5	524.1	2146.8	5685.3	6794.3	6993.4
57.5°	344.6	336.3	270.3	251.7	328.1	330.1	477.6	1406.1	5038.5	6255.8	6668.4
60°	261.0	254.8	198.1	204.3	229.0	211.5	380.7	700.5	3765.4	4873.4	5338.7
62.5°	180.5	172.3	147.5	157.8	147.5	120.7	233.1	346.6	2280.9	3077.3	3499.3
65°	132.0	122.8	101.1	86.7	69.1	69.1	88.7	133.1	883.1	1308.1	1577.4
67.5°	81.5	77.4	59.8	43.3	42.3	45.4	46.4	66.0	142.4	227.0	277.5
70°	52.6	48.5	40.2	27.9	25.8	26.8	27.9	30.9	36.1	39.2	47.5
72.5°	36.1	34.0	28.9	15.5	12.4	13.4	14.4	14.4	17.5	16.5	19.6
75°	25.8	23.7	20.6	7.2	4.1	5.2	6.2	5.2	6.2	4.1	5.2
77.5°	7.2	7.2	5.2	1.0	0.0	1.0	2.1	2.1	1.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P633254

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1486.6	1510.3	1519.6	1506.2	1517.5	1499.0	1491.7	1463.9	1461.8	1456.7
5°	1686.7	1740.4	1772.3	1791.9	1769.2	1744.5	1707.3	1643.4	1623.8	1611.4
7.5°	1883.8	1967.3	2022.0	2047.8	2041.6	1991.0	1924.0	1816.7	1778.5	1760.0
10°	2055.0	2157.1	2223.2	2255.1	2241.7	2197.4	2101.4	1967.3	1916.8	1905.4
12.5°	2174.7	2268.5	2313.9	2341.8	2342.8	2325.3	2234.5	2099.4	2039.5	2025.1
15°	2250.0	2290.2	2291.2	2307.8	2336.6	2375.8	2333.5	2213.9	2149.9	2128.2
17.5°	2297.4	2253.1	2207.7	2211.8	2259.3	2363.5	2406.8	2315.0	2246.9	2223.2
20°	2331.5	2191.2	2106.6	2107.6	2156.1	2313.9	2457.3	2413.0	2342.8	2321.2
22.5°	2353.1	2136.5	2015.8	2012.7	2064.3	2255.1	2503.8	2529.6	2460.4	2435.7
25°	2397.5	2110.7	1961.1	1978.7	2024.1	2236.6	2566.7	2684.3	2620.3	2587.3
27.5°	2476.9	2136.5	1956.0	1996.2	2047.8	2291.2	2676.0	2890.6	2824.6	2787.5
30°	2614.1	2233.5	2035.4	2091.1	2153.0	2434.6	2859.7	3178.4	3083.5	3048.5
32.5°	2834.9	2434.6	2280.9	2400.6	2460.4	2669.9	3135.1	3501.3	3424.0	3353.8
35°	3139.2	2893.7	2876.2	3154.7	3140.3	3115.5	3473.5	3897.5	3780.9	3712.8
37.5°	3558.1	3632.4	3762.3	4038.8	4029.5	3840.7	3918.1	4272.0	4212.1	4124.4
40°	4081.1	4239.0	4459.7	4855.9	4732.1	4494.8	4463.9	4655.7	4607.2	4504.1
42.5°	4389.6	4661.9	5082.8	5438.7	5339.7	4925.0	4889.9	5168.5	5062.2	4949.7
45°	4533.0	5006.5	5831.8	6313.6	6013.4	5210.8	5197.3	5836.9	5777.1	5626.5
47.5°	4599.0	5354.1	6708.7	7438.0	6876.8	5461.4	5412.9	6806.7	6728.3	6550.8
50°	4672.2	5833.9	7765.1	8741.0	7919.8	5745.1	5780.2	7710.4	7677.4	7468.0
52.5°	4833.2	6341.4	9065.9	10230.7	9184.6	6189.8	6410.5	8562.5	8339.7	8098.3
55°	5074.6	6894.4	10419.4	11752.3	10475.1	6787.1	7092.4	9015.4	8390.2	8123.0
57.5°	4807.4	7032.6	11221.0	12814.9	11047.7	6789.1	6515.8	8230.3	7379.2	7120.3
60°	3815.0	6542.6	10912.6	12584.8	10559.7	6028.8	4989.0	6426.0	5590.4	5417.1
62.5°	2579.1	5487.2	9606.5	10643.3	9038.1	4742.4	3242.4	4179.1	3461.1	3317.7
65°	1413.3	4093.5	7762.0	8051.9	7073.9	3312.6	1668.1	1813.6	1381.3	1317.4
67.5°	390.0	2849.4	5711.1	5341.8	4963.2	2157.1	431.2	323.9	231.1	229.0
70°	98.0	1884.8	3421.9	3527.1	3043.3	1381.3	82.5	39.2	30.9	29.9
72.5°	41.3	810.9	1623.8	1866.2	1557.8	639.6	29.9	11.3	9.3	7.2
75°	5.2	65.0	138.2	209.4	143.4	69.1	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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)