

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: P636884

Luminaire Tested: GWS-SA4B-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636884
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-SA4B-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7830.5 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

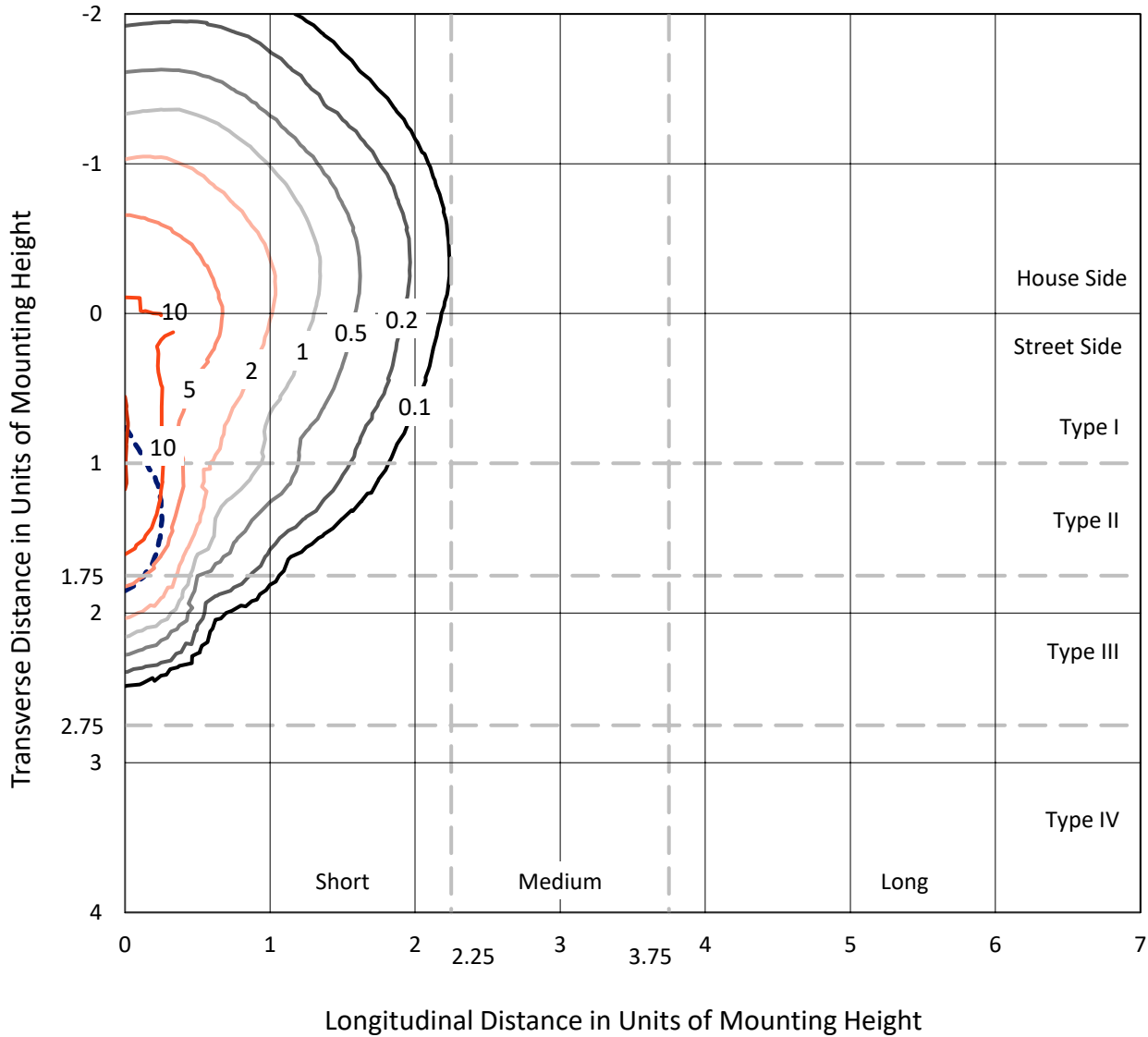
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636884
 CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

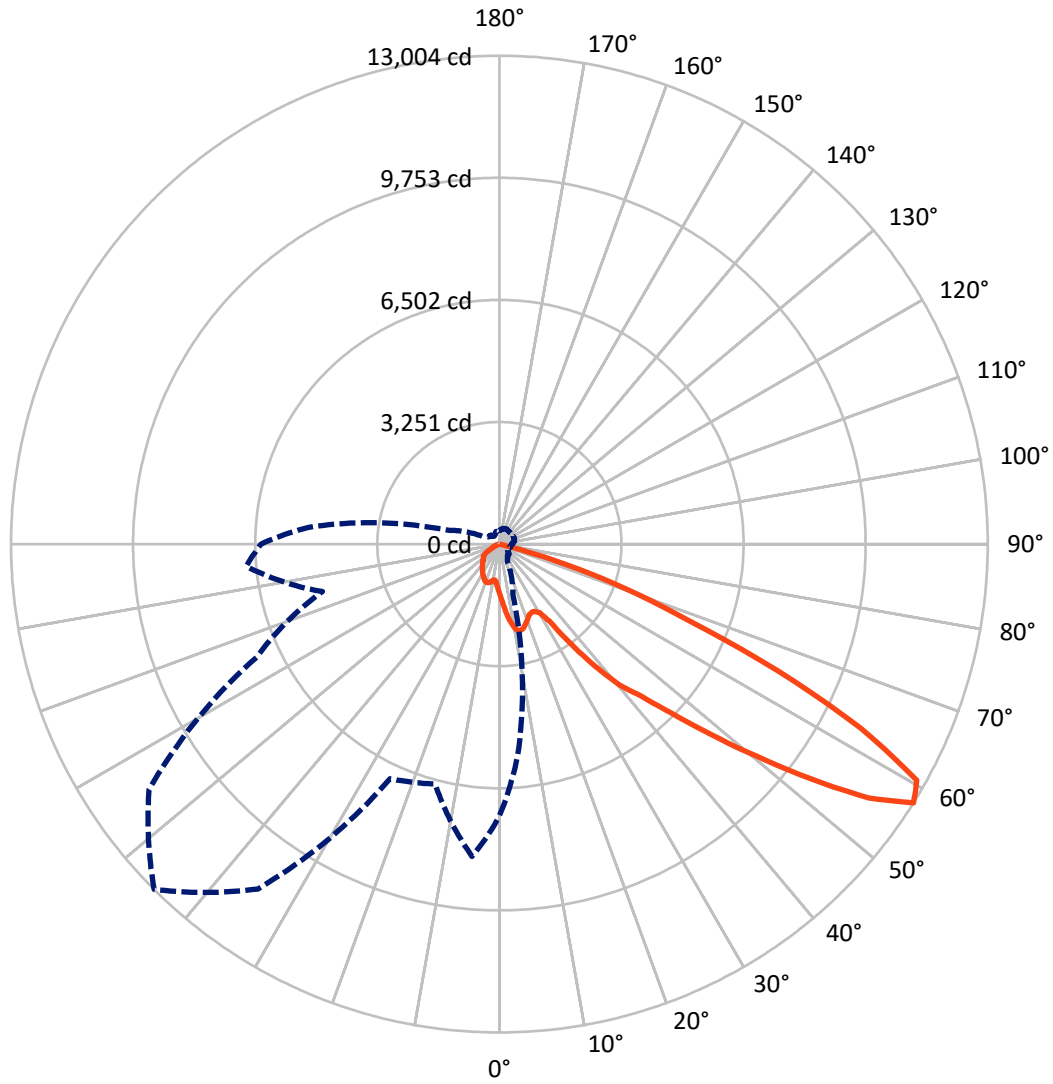
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type III - Short - N/A

REPORT NUMBER: P636884
CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636884

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

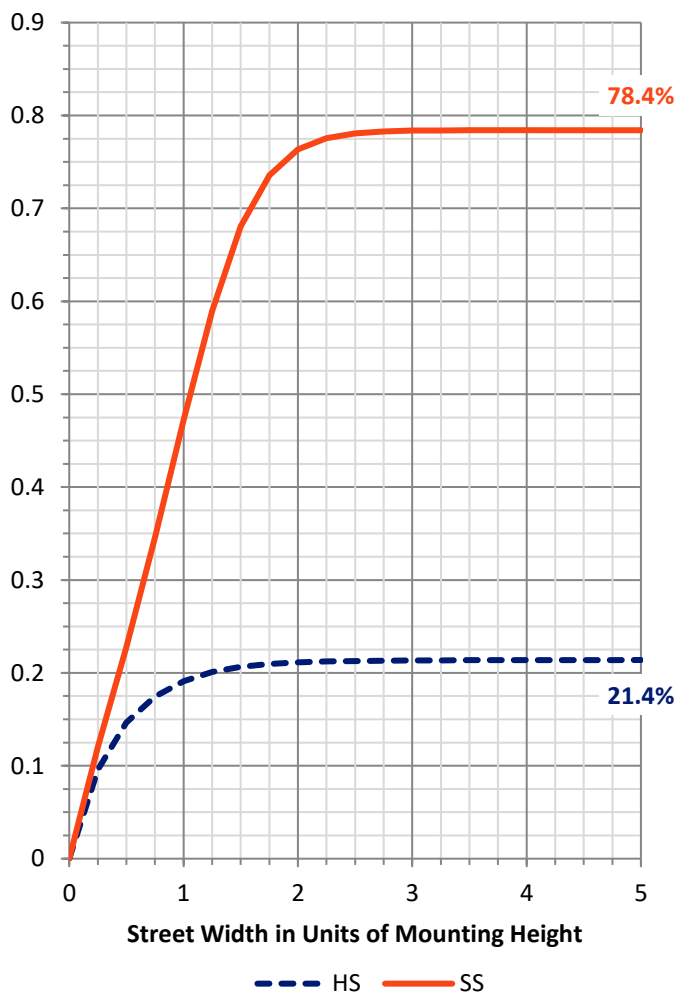
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.0	0.0	1687.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6143.5	0.0	6143.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	7830.5	0.0	7830.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.7
10°-20°	432.7	5.5
20°-30°	702.3	9.0
30°-40°	1077.8	13.8
40°-50°	1721.3	22.0
50°-60°	2410.2	30.8
60°-70°	1235.8	15.8
70°-80°	119.0	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°	7830.5	100.0
0°-180°	7830.5	100.0

Coefficient of Utilization



REPORT NUMBER: P636884

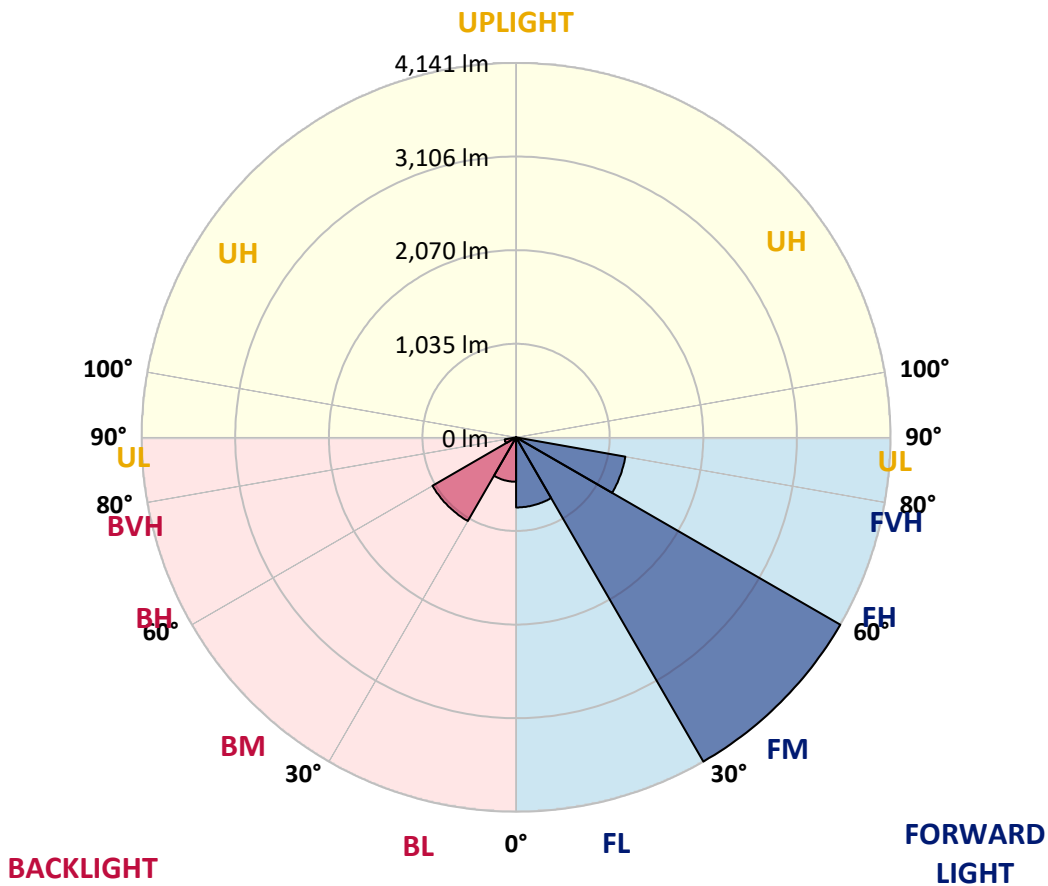
CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.3	9.9			
FM (30°-60°)	4141.0	52.9			
FH (60°-80°)	1227.3	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	491.2	6.3	B1/500		
BM (30°-60°)	1068.3	13.6	B2/2500		
BH (60°-80°)	127.4	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: P636884

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1478.1	1475.0	1464.5	1428.9	1406.9	1372.4	1347.3	1314.8	1279.2	1257.2	1235.3
5°	1635.1	1626.8	1598.5	1516.9	1454.0	1386.0	1331.6	1271.9	1208.0	1166.2	1127.4
7.5°	1785.9	1773.3	1735.6	1597.5	1502.2	1404.8	1327.4	1240.5	1150.5	1087.7	1039.5
10°	1933.5	1905.2	1845.6	1676.0	1547.2	1430.0	1338.9	1239.4	1133.7	1054.2	1000.8
12.5°	2054.9	2034.0	1952.3	1750.3	1584.9	1435.2	1323.2	1231.1	1159.9	1106.5	1057.3
15°	2159.6	2136.6	2059.1	1817.3	1617.3	1414.3	1257.2	1176.6	1188.1	1209.1	1167.2
17.5°	2255.9	2231.8	2148.1	1872.8	1629.9	1363.0	1165.1	1126.4	1190.2	1268.8	1253.1
20°	2355.4	2328.1	2225.6	1917.8	1625.7	1282.4	1072.0	1083.5	1173.5	1263.5	1271.9
22.5°	2471.6	2443.3	2324.0	1975.4	1622.6	1186.1	991.3	1045.8	1142.1	1218.5	1233.2
25°	2625.4	2591.9	2461.1	2060.2	1631.0	1098.1	933.8	1009.1	1088.7	1157.8	1166.2
27.5°	2828.5	2785.6	2619.2	2164.8	1648.8	1029.0	908.6	958.9	1020.7	1082.4	1089.7
30°	3093.4	3038.9	2800.3	2255.9	1640.4	980.9	891.9	908.6	945.3	995.5	996.6
32.5°	3403.2	3328.9	3003.3	2334.4	1568.1	945.3	868.9	857.4	865.7	904.5	911.8
35°	3767.5	3671.2	3227.4	2408.8	1436.2	876.2	827.0	788.3	785.1	804.0	821.8
37.5°	4185.2	4070.1	3510.0	2504.0	1280.3	804.0	765.2	726.5	709.7	719.2	746.4
40°	4570.4	4442.7	3805.2	2619.2	1121.2	739.1	693.0	653.2	633.3	636.5	670.0
42.5°	5022.7	4890.8	4166.4	2769.9	989.3	695.1	617.6	576.8	550.6	565.3	604.0
45°	5709.4	5559.7	4692.9	2900.8	884.6	684.6	551.7	494.1	481.5	506.7	552.7
47.5°	6647.4	6464.2	5416.3	2980.3	795.6	694.0	505.6	427.1	430.2	458.5	504.6
50°	7578.0	7380.1	6252.7	2875.6	722.3	675.2	482.6	374.8	394.7	419.8	461.7
52.5°	8217.6	7960.1	6659.9	2573.1	655.3	604.0	480.5	325.6	363.2	371.6	407.2
55°	8242.7	7925.5	6451.6	2028.8	564.2	509.8	458.5	284.7	328.7	331.8	362.2
57.5°	7225.2	6938.4	5638.2	1393.3	501.4	373.7	365.3	249.1	270.1	296.3	315.1
60°	5496.9	5253.0	4216.6	638.6	381.0	237.6	250.2	214.6	202.0	240.8	259.6
62.5°	3366.6	3210.6	2529.1	282.6	242.9	126.7	151.8	170.6	151.8	166.4	182.1
65°	1336.8	1267.7	959.9	120.4	99.4	63.9	69.1	99.4	106.8	117.2	131.9
67.5°	232.4	219.8	161.2	53.4	40.8	38.7	33.5	46.1	64.9	72.2	83.7
70°	30.4	29.3	26.2	22.0	20.9	18.8	14.7	29.3	44.0	46.1	53.4
72.5°	7.3	6.3	6.3	5.2	6.3	2.1	2.1	15.7	31.4	32.5	37.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	19.9	22.0	26.2
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: P636884

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1217.5	1196.5	1189.2	1178.7	1165.1	1169.3	1150.5	1144.2	1153.6	1166.2	1163.0
5°	1106.5	1083.5	1067.8	1043.7	1039.5	1030.1	1023.8	1015.4	1025.9	1040.5	1043.7
7.5°	1018.6	998.7	983.0	975.6	970.4	966.2	953.7	947.4	947.4	953.7	958.9
10°	980.9	966.2	963.1	965.2	973.5	972.5	961.0	952.6	942.1	936.9	943.2
12.5°	1033.2	1009.1	1005.0	1006.0	1016.5	1015.4	1002.9	992.4	990.3	992.4	1012.3
15°	1122.2	1085.6	1058.3	1053.1	1058.3	1056.2	1046.8	1040.5	1043.7	1074.0	1107.5
17.5°	1201.8	1145.2	1096.0	1077.2	1076.1	1073.0	1063.6	1061.5	1077.2	1133.7	1182.9
20°	1224.8	1169.3	1099.2	1075.1	1069.9	1066.7	1056.2	1059.4	1079.3	1147.3	1189.2
22.5°	1194.4	1141.0	1067.8	1043.7	1039.5	1038.5	1028.0	1032.2	1048.9	1108.6	1143.1
25°	1136.9	1091.8	1015.4	994.5	994.5	992.4	983.0	985.1	995.5	1047.9	1081.4
27.5°	1066.7	1023.8	959.9	939.0	942.1	945.3	933.8	930.6	939.0	988.2	1008.1
30°	986.1	955.8	905.5	886.7	885.6	898.2	882.5	878.3	889.8	928.5	932.7
32.5°	907.6	892.9	857.4	842.7	843.7	845.8	837.5	837.5	847.9	868.9	867.8
35°	831.2	821.8	815.5	805.0	804.0	799.8	799.8	801.9	813.4	820.7	807.1
37.5°	757.9	767.3	774.7	764.2	755.8	755.8	755.8	765.2	775.7	772.6	749.5
40°	693.0	712.9	735.9	724.4	704.5	703.5	707.7	723.4	739.1	720.2	699.3
42.5°	637.5	662.6	695.1	688.8	666.8	663.7	666.8	686.7	699.3	675.2	652.2
45°	583.1	614.5	653.2	653.2	629.1	626.0	627.0	653.2	660.5	632.3	603.0
47.5°	537.0	571.6	612.4	612.4	592.5	586.2	591.5	618.7	623.9	584.1	556.9
50°	493.1	530.7	575.8	572.6	559.0	553.8	563.2	592.5	586.2	542.3	514.0
52.5°	437.6	477.4	539.1	542.3	534.9	536.0	547.5	566.3	548.5	495.1	471.1
55°	387.3	428.2	489.9	506.7	506.7	505.6	510.9	525.5	510.9	447.0	417.7
57.5°	332.9	367.4	418.7	422.9	426.1	414.5	421.9	441.8	434.4	380.0	363.2
60°	273.2	302.5	331.8	335.0	321.4	297.3	310.9	333.9	339.2	298.3	279.5
62.5°	193.7	221.9	256.5	256.5	242.9	218.8	236.6	256.5	249.1	207.3	195.8
65°	144.5	170.6	196.8	208.3	196.8	180.1	193.7	208.3	196.8	162.3	145.5
67.5°	93.2	111.0	126.7	136.1	138.2	136.1	142.4	138.2	124.6	101.5	92.1
70°	56.5	66.0	74.3	82.7	89.0	92.1	95.3	85.8	72.2	59.7	56.5
72.5°	40.8	49.2	56.5	62.8	70.1	72.2	72.2	66.0	53.4	41.9	38.7
75°	28.3	35.6	41.9	46.1	52.3	54.4	54.4	49.2	39.8	30.4	27.2
77.5°	1.0	7.3	7.3	6.3	8.4	10.5	10.5	12.6	11.5	8.4	7.3
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: P636884

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1169.3	1207.0	1217.5	1256.2	1290.7	1325.3	1367.2	1392.3	1430.0	1456.1	1470.8
5°	1054.2	1085.6	1123.2	1180.8	1240.5	1306.4	1386.0	1455.1	1542.0	1605.8	1626.8
7.5°	970.4	1011.2	1055.2	1127.4	1209.1	1297.0	1409.0	1522.1	1655.0	1741.9	1797.4
10°	954.7	996.6	1055.2	1126.4	1212.2	1312.7	1449.9	1596.4	1762.9	1868.6	1931.4
12.5°	1030.1	1075.1	1100.2	1132.7	1197.6	1309.6	1485.4	1671.8	1867.5	1982.7	2049.7
15°	1141.0	1180.8	1140.0	1099.2	1141.0	1276.1	1505.3	1734.6	1959.7	2092.6	2161.7
17.5°	1217.5	1220.6	1131.6	1044.7	1056.2	1215.4	1512.7	1797.4	2058.1	2197.3	2269.5
20°	1210.1	1185.0	1095.0	998.7	963.1	1136.9	1504.3	1852.9	2157.5	2303.0	2374.2
22.5°	1153.6	1124.3	1047.9	953.7	884.6	1043.7	1489.6	1903.1	2248.6	2414.0	2481.0
25°	1085.6	1054.2	991.3	908.6	834.3	953.7	1478.1	1972.2	2363.7	2558.4	2610.8
27.5°	1006.0	978.8	925.4	865.7	813.4	885.6	1475.0	2063.3	2503.0	2734.3	2771.0
30°	928.5	903.4	861.5	827.0	805.0	845.8	1464.5	2160.7	2669.4	2936.4	2976.1
32.5°	854.2	829.1	802.9	797.7	798.7	831.2	1428.9	2257.0	2867.3	3229.5	3258.8
35°	790.4	761.0	750.6	763.1	786.2	806.1	1328.4	2336.5	3079.8	3548.7	3572.8
37.5°	729.6	700.3	699.3	729.6	754.8	767.3	1210.1	2415.0	3366.6	3873.3	3903.6
40°	674.2	644.8	655.3	692.0	711.8	718.1	1066.7	2534.4	3670.2	4215.6	4198.8
42.5°	627.0	596.7	603.0	650.1	667.9	684.6	934.8	2633.8	3962.2	4540.1	4534.9
45°	581.0	558.0	553.8	605.1	620.8	687.8	838.5	2710.2	4338.1	4953.6	4962.0
47.5°	536.0	518.2	519.2	541.2	579.9	703.5	756.9	2760.5	4883.5	5608.9	5463.4
50°	495.1	481.5	493.1	467.9	553.8	683.6	686.7	2750.0	5492.7	6237.0	5944.9
52.5°	450.1	447.0	452.2	391.5	511.9	603.0	620.8	2610.8	5778.5	6666.2	6499.8
55°	404.1	403.0	361.2	313.0	428.2	481.5	531.8	2178.4	5769.1	6894.4	7096.4
57.5°	349.6	341.3	274.3	255.4	332.9	335.0	484.7	1426.8	5112.7	6348.0	6766.7
60°	264.8	258.6	201.0	207.3	232.4	214.6	386.3	710.8	3820.9	4945.2	5417.3
62.5°	183.2	174.8	149.7	160.2	149.7	122.5	236.6	351.7	2314.5	3122.7	3550.8
65°	134.0	124.6	102.6	87.9	70.1	70.1	90.0	135.0	896.1	1327.4	1600.6
67.5°	82.7	78.5	60.7	44.0	42.9	46.1	47.1	67.0	144.5	230.3	281.6
70°	53.4	49.2	40.8	28.3	26.2	27.2	28.3	31.4	36.6	39.8	48.2
72.5°	36.6	34.5	29.3	15.7	12.6	13.6	14.7	14.7	17.8	16.7	19.9
75°	26.2	24.1	20.9	7.3	4.2	5.2	6.3	5.2	6.3	4.2	5.2
77.5°	7.3	7.3	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: P636884

CATALOG NUMBER: GWS-SA4B-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1508.5	1532.6	1542.0	1528.4	1539.9	1521.0	1513.7	1485.4	1483.4	1478.1
5°	1711.6	1766.0	1798.4	1818.3	1795.3	1770.2	1732.5	1667.6	1647.7	1635.1
7.5°	1911.5	1996.3	2051.8	2078.0	2071.7	2020.4	1952.3	1843.5	1804.7	1785.9
10°	2085.3	2188.9	2255.9	2288.4	2274.8	2229.7	2132.4	1996.3	1945.0	1933.5
12.5°	2206.7	2302.0	2348.0	2376.3	2377.3	2359.5	2267.4	2130.3	2069.6	2054.9
15°	2283.1	2324.0	2325.0	2341.8	2371.1	2410.8	2367.9	2246.5	2181.6	2159.6
17.5°	2331.3	2286.3	2240.2	2244.4	2292.6	2398.3	2442.2	2349.1	2280.0	2255.9
20°	2365.8	2223.5	2137.6	2138.7	2187.9	2348.0	2493.5	2448.5	2377.3	2355.4
22.5°	2387.8	2168.0	2045.5	2042.4	2094.7	2288.4	2540.7	2566.8	2496.7	2471.6
25°	2432.8	2141.8	1990.0	2007.8	2053.9	2269.5	2604.5	2723.8	2658.9	2625.4
27.5°	2513.4	2168.0	1984.8	2025.6	2078.0	2325.0	2715.5	2933.2	2866.2	2828.5
30°	2652.7	2266.4	2065.4	2121.9	2184.7	2470.5	2901.8	3225.3	3129.0	3093.4
32.5°	2876.7	2470.5	2314.5	2436.0	2496.7	2709.2	3181.3	3552.9	3474.4	3403.2
35°	3185.5	2936.4	2918.6	3201.2	3186.5	3161.4	3524.7	3954.9	3836.6	3767.5
37.5°	3610.5	3685.9	3817.8	4098.3	4088.9	3897.3	3975.9	4334.9	4274.2	4185.2
40°	4141.3	4301.4	4525.4	4927.4	4801.8	4561.0	4529.6	4724.3	4675.1	4570.4
42.5°	4454.3	4730.6	5157.7	5518.9	5418.4	4997.6	4962.0	5244.6	5136.8	5022.7
45°	4599.8	5080.3	5917.7	6406.6	6102.0	5287.5	5273.9	5923.0	5862.2	5709.4
47.5°	4666.8	5433.0	6807.5	7547.6	6978.2	5541.9	5492.7	6907.0	6827.4	6647.4
50°	4741.1	5919.8	7879.5	8869.8	8036.5	5829.8	5865.4	7824.0	7790.5	7578.0
52.5°	4904.4	6434.8	9199.5	10381.4	9319.9	6281.0	6505.0	8688.7	8462.6	8217.6
55°	5149.3	6995.9	10573.0	11925.5	10629.5	6887.1	7196.9	9148.2	8513.8	8242.7
57.5°	4878.2	7136.2	11386.3	13003.7	11210.5	6889.2	6611.8	8351.6	7488.0	7225.2
60°	3871.2	6639.0	11073.3	12770.3	10715.3	6117.7	5062.5	6520.7	5672.8	5496.9
62.5°	2617.1	5568.1	9748.1	10800.1	9171.3	4812.3	3290.2	4240.7	3512.1	3366.6
65°	1434.2	4153.8	7876.3	8170.5	7178.1	3361.4	1692.7	1840.3	1401.7	1336.8
67.5°	395.7	2891.3	5795.2	5420.5	5036.3	2188.9	437.6	328.7	234.5	232.4
70°	99.4	1912.6	3472.3	3579.1	3088.1	1401.7	83.7	39.8	31.4	30.4
72.5°	41.9	822.8	1647.7	1893.7	1580.7	649.0	30.4	11.5	9.4	7.3
75°	5.2	66.0	140.3	212.5	145.5	70.1	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)