

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: P639304

Luminaire Tested: GWS-SA5B-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639304
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-SA5B-750-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9739.2 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

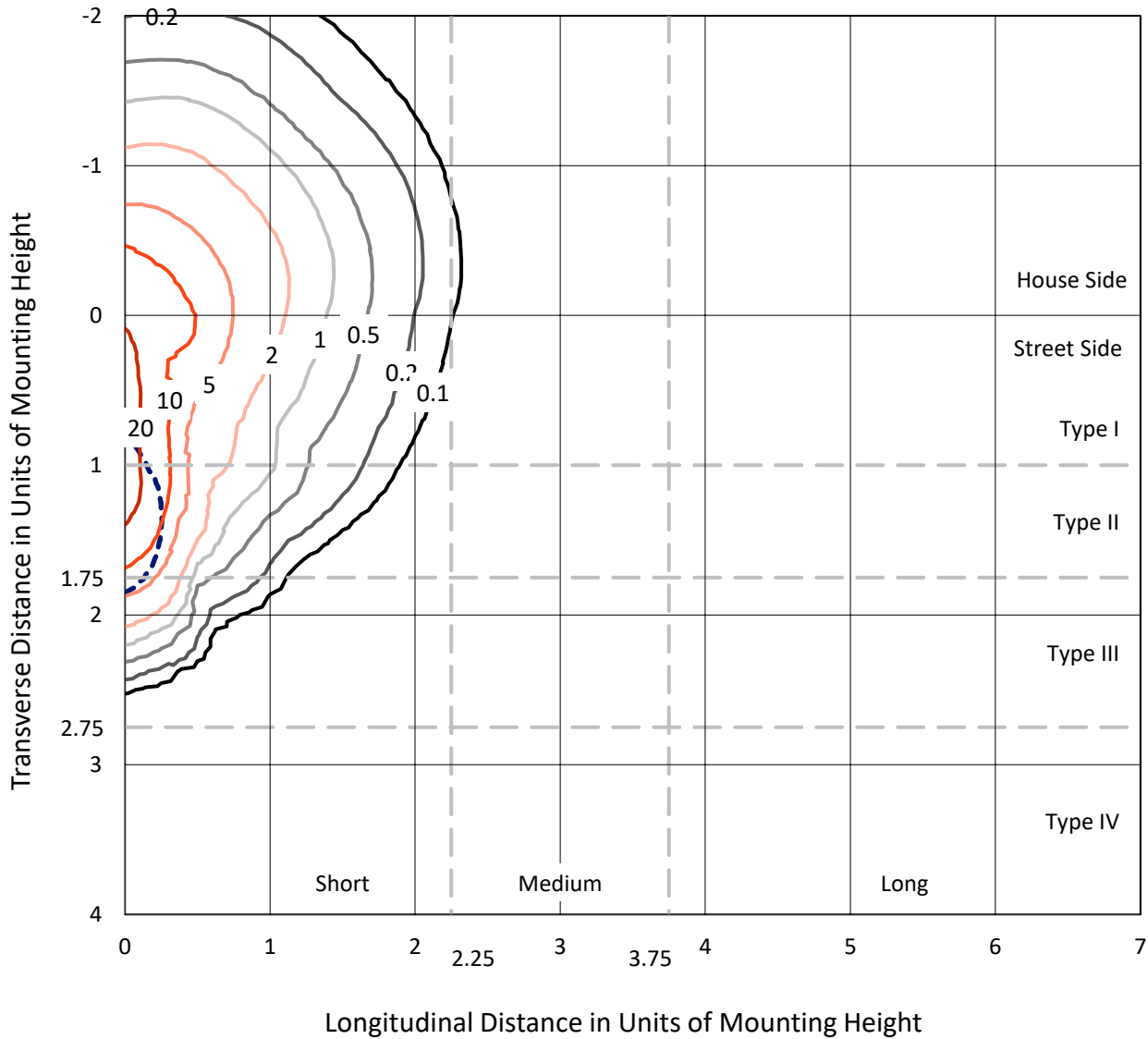
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639304
 CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

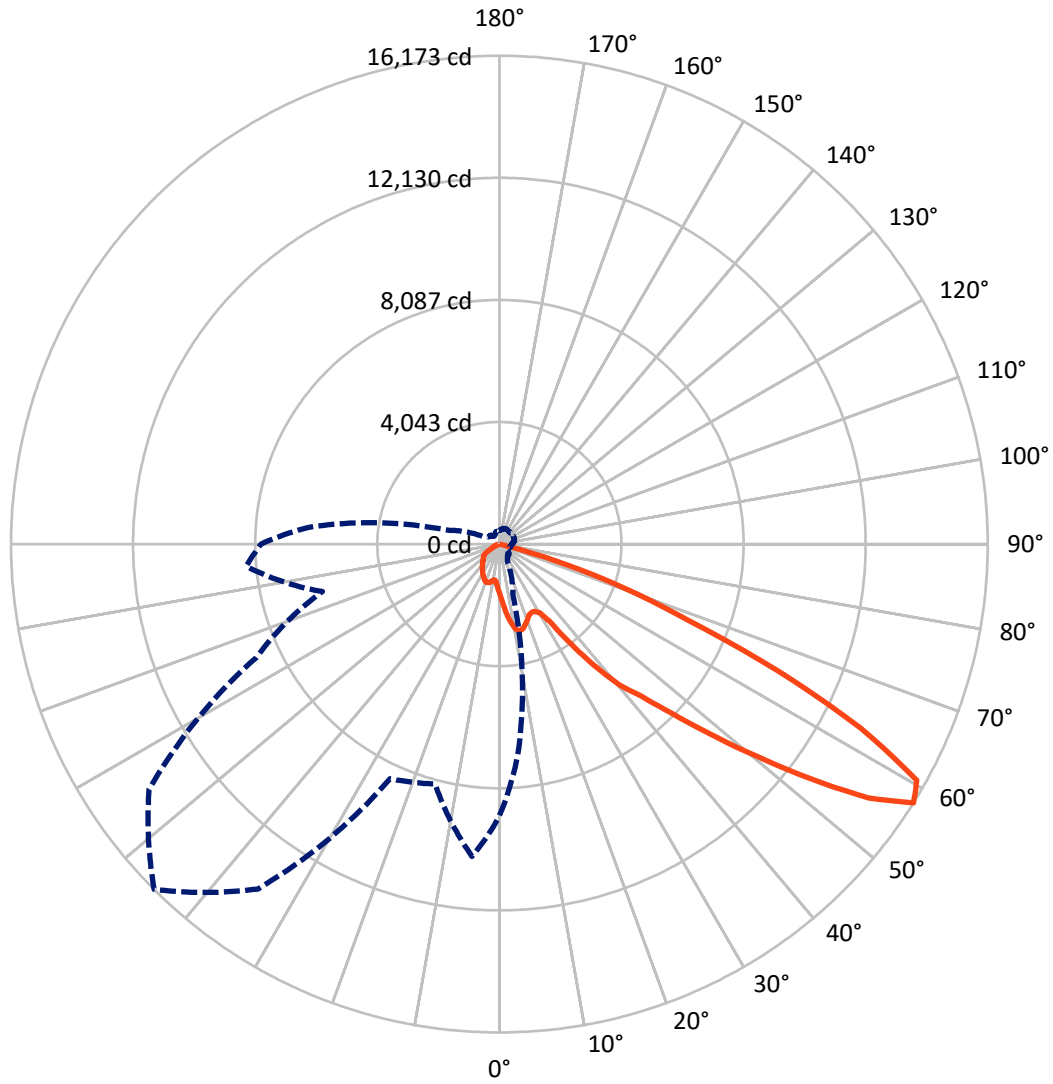
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 fc
 Type III - Short - N/A

REPORT NUMBER: P639304
CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639304

CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

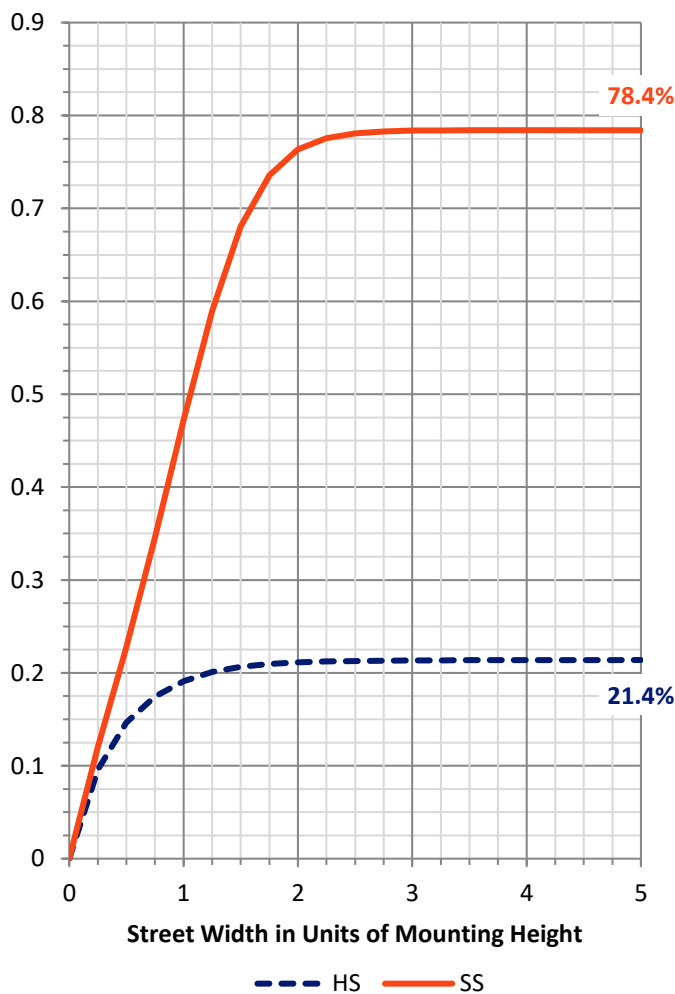
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.1	0.0	2098.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7641.0	0.0	7641.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	9739.2	0.0	9739.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	1.7
10°-20°	538.2	5.5
20°-30°	873.4	9.0
30°-40°	1340.5	13.8
40°-50°	2140.9	22.0
50°-60°	2997.6	30.8
60°-70°	1537.0	15.8
70°-80°	148.0	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°	9739.2	100.0
0°-180°	9739.2	100.0

Coefficient of Utilization



REPORT NUMBER: P639304

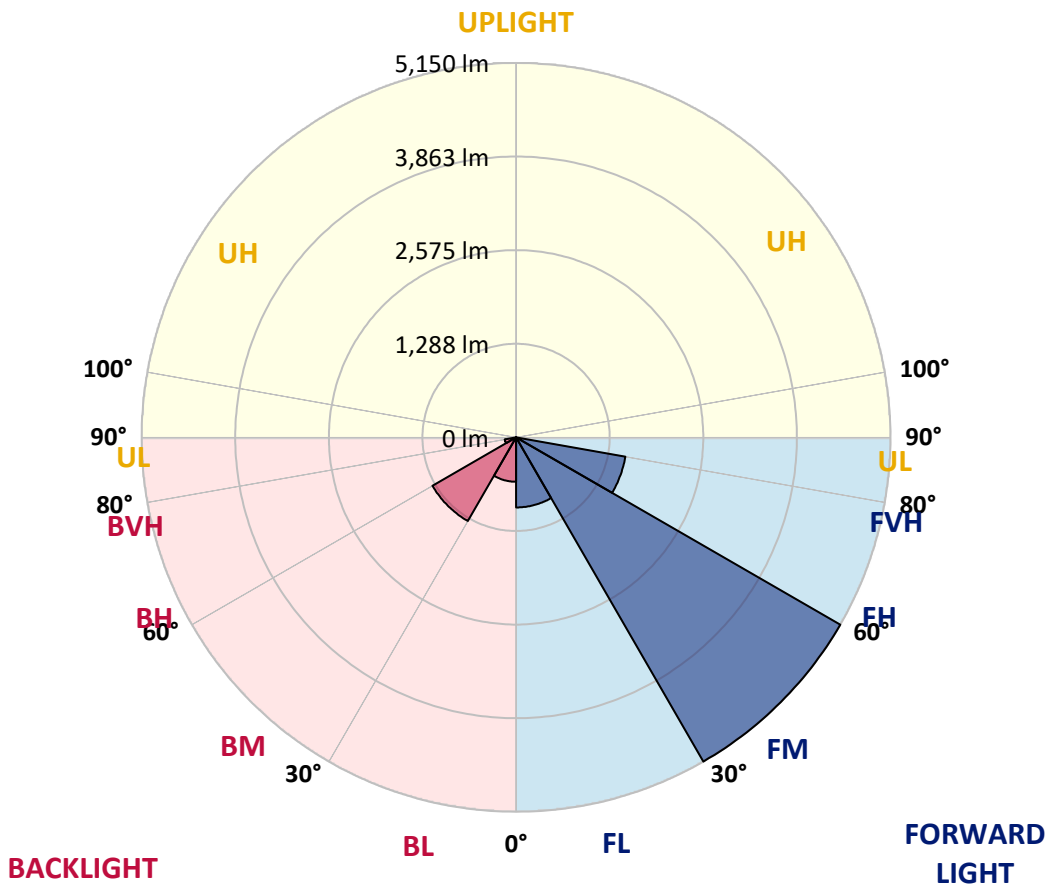
CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.2	9.9			
FM (30°-60°)	5150.3	52.9			
FH (60°-80°)	1526.5	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	610.9	6.3	B2/1000		
BM (30°-60°)	1328.7	13.6	B2/2500		
BH (60°-80°)	158.5	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: P639304

CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1838.4	1834.5	1821.5	1777.2	1749.9	1706.9	1675.7	1635.3	1591.0	1563.7	1536.4
5°	2033.7	2023.3	1988.1	1886.6	1808.5	1723.8	1656.1	1581.9	1502.5	1450.4	1402.2
7.5°	2221.2	2205.6	2158.7	1986.8	1868.4	1747.3	1650.9	1542.9	1430.9	1352.8	1292.9
10°	2404.8	2369.6	2295.4	2084.5	1924.3	1778.5	1665.3	1541.6	1410.1	1311.1	1244.7
12.5°	2555.8	2529.8	2428.2	2176.9	1971.2	1785.0	1645.7	1531.1	1442.6	1376.2	1315.0
15°	2686.0	2657.4	2561.0	2260.3	2011.6	1759.0	1563.7	1463.4	1477.8	1503.8	1451.7
17.5°	2805.8	2775.9	2671.7	2329.3	2027.2	1695.2	1449.1	1400.9	1480.4	1578.0	1558.5
20°	2929.5	2895.6	2768.0	2385.3	2022.0	1594.9	1333.2	1347.6	1459.5	1571.5	1581.9
22.5°	3074.0	3038.9	2890.4	2456.9	2018.1	1475.2	1233.0	1300.7	1420.5	1515.5	1533.7
25°	3265.4	3223.7	3061.0	2562.3	2028.5	1365.8	1161.4	1255.1	1354.1	1440.0	1450.4
27.5°	3518.0	3464.6	3257.6	2692.5	2050.6	1279.9	1130.1	1192.6	1269.4	1346.3	1355.4
30°	3847.4	3779.7	3482.8	2805.8	2040.2	1220.0	1109.3	1130.1	1175.7	1238.2	1239.5
32.5°	4232.8	4140.3	3735.4	2903.4	1950.4	1175.7	1080.7	1066.3	1076.7	1124.9	1134.0
35°	4685.9	4566.1	4014.0	2995.9	1786.3	1089.8	1028.6	980.4	976.5	999.9	1022.1
37.5°	5205.4	5062.2	4365.6	3114.4	1592.3	999.9	951.8	903.6	882.8	894.5	928.3
40°	5684.5	5525.7	4732.7	3257.6	1394.4	919.2	861.9	812.4	787.7	791.6	833.3
42.5°	6247.0	6082.9	5181.9	3445.1	1230.4	864.5	768.2	717.4	684.8	703.1	751.3
45°	7101.1	6914.9	5836.8	3607.8	1100.2	851.5	686.2	614.5	598.9	630.2	687.5
47.5°	8267.7	8039.8	6736.5	3706.8	989.5	863.2	628.9	531.2	535.1	570.3	627.6
50°	9425.1	9179.1	7776.8	3576.6	898.4	839.8	600.2	466.1	490.9	522.1	574.2
52.5°	10220.7	9900.4	8283.3	3200.3	815.0	751.3	597.6	404.9	451.8	462.2	506.5
55°	10251.9	9857.4	8024.2	2523.3	701.8	634.1	570.3	354.1	408.8	412.7	450.5
57.5°	8986.4	8629.6	7012.5	1733.0	623.7	464.8	454.4	309.9	335.9	368.5	391.9
60°	6836.8	6533.4	5244.4	794.2	473.9	295.6	311.2	266.9	251.3	299.5	322.9
62.5°	4187.2	3993.2	3145.6	351.5	302.1	157.5	188.8	212.2	188.8	207.0	226.5
65°	1662.6	1576.7	1193.9	149.7	123.7	79.4	85.9	123.7	132.8	145.8	164.1
67.5°	289.0	273.4	200.5	66.4	50.8	48.2	41.7	57.3	80.7	89.8	104.2
70°	37.8	36.5	32.5	27.3	26.0	23.4	18.2	36.5	54.7	57.3	66.4
72.5°	9.1	7.8	7.8	6.5	7.8	2.6	2.6	19.5	39.1	40.4	46.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	24.7	27.3	32.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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: P639304

CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1514.2	1488.2	1479.1	1466.0	1449.1	1454.3	1430.9	1423.1	1434.8	1450.4	1446.5
5°	1376.2	1347.6	1328.0	1298.1	1292.9	1281.2	1273.4	1262.9	1276.0	1294.2	1298.1
7.5°	1266.8	1242.1	1222.6	1213.5	1206.9	1201.7	1186.1	1178.3	1178.3	1186.1	1192.6
10°	1220.0	1201.7	1197.8	1200.4	1210.9	1209.6	1195.2	1184.8	1171.8	1165.3	1173.1
12.5°	1285.1	1255.1	1249.9	1251.2	1264.2	1262.9	1247.3	1234.3	1231.7	1234.3	1259.0
15°	1395.7	1350.2	1316.3	1309.8	1316.3	1313.7	1302.0	1294.2	1298.1	1335.8	1377.5
17.5°	1494.7	1424.4	1363.2	1339.8	1338.4	1334.5	1322.8	1320.2	1339.8	1410.1	1471.3
20°	1523.3	1454.3	1367.1	1337.1	1330.6	1326.7	1313.7	1317.6	1342.4	1427.0	1479.1
22.5°	1485.6	1419.2	1328.0	1298.1	1292.9	1291.6	1278.6	1283.8	1304.6	1378.8	1421.8
25°	1414.0	1358.0	1262.9	1236.9	1236.9	1234.3	1222.6	1225.2	1238.2	1303.3	1345.0
27.5°	1326.7	1273.4	1193.9	1167.9	1171.8	1175.7	1161.4	1157.5	1167.9	1229.1	1253.8
30°	1226.5	1188.7	1126.2	1102.8	1101.5	1117.1	1097.6	1092.4	1106.7	1154.9	1160.1
32.5°	1128.8	1110.6	1066.3	1048.1	1049.4	1052.0	1041.6	1041.6	1054.6	1080.7	1079.4
35°	1033.8	1022.1	1014.3	1001.2	999.9	994.7	994.7	997.3	1011.6	1020.8	1003.8
37.5°	942.6	954.4	963.5	950.5	940.0	940.0	940.0	951.8	964.8	960.9	932.2
40°	861.9	886.7	915.3	901.0	876.2	874.9	880.1	899.7	919.2	895.8	869.7
42.5°	792.9	824.2	864.5	856.7	829.4	825.5	829.4	854.1	869.7	839.8	811.1
45°	725.2	764.3	812.4	812.4	782.5	778.6	779.9	812.4	821.6	786.4	749.9
47.5°	667.9	710.9	761.7	761.7	736.9	729.1	735.6	769.5	776.0	726.5	692.7
50°	613.2	660.1	716.1	712.2	695.3	688.8	700.5	736.9	729.1	674.4	639.3
52.5°	544.2	593.7	670.5	674.4	665.3	666.6	680.9	704.4	682.2	615.8	585.9
55°	481.7	532.5	609.3	630.2	630.2	628.9	635.4	653.6	635.4	556.0	519.5
57.5°	414.0	457.0	520.8	526.0	529.9	515.6	524.7	549.4	540.3	472.6	451.8
60°	339.8	376.3	412.7	416.6	399.7	369.8	386.7	415.3	421.8	371.1	347.6
62.5°	240.9	276.0	319.0	319.0	302.1	272.1	294.3	319.0	309.9	257.8	243.5
65°	179.7	212.2	244.8	259.1	244.8	223.9	240.9	259.1	244.8	201.8	181.0
67.5°	115.9	138.0	157.5	169.3	171.9	169.3	177.1	171.9	154.9	126.3	114.6
70°	70.3	82.0	92.4	102.9	110.7	114.6	118.5	106.8	89.8	74.2	70.3
72.5°	50.8	61.2	70.3	78.1	87.2	89.8	89.8	82.0	66.4	52.1	48.2
75°	35.2	44.3	52.1	57.3	65.1	67.7	67.7	61.2	49.5	37.8	33.9
77.5°	1.3	9.1	9.1	7.8	10.4	13.0	13.0	15.6	14.3	10.4	9.1
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: P639304

CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1454.3	1501.2	1514.2	1562.4	1605.4	1648.3	1700.4	1731.7	1778.5	1811.1	1829.3
5°	1311.1	1350.2	1397.0	1468.6	1542.9	1624.9	1723.8	1809.8	1917.8	1997.3	2023.3
7.5°	1206.9	1257.7	1312.4	1402.2	1503.8	1613.2	1752.5	1893.1	2058.5	2166.5	2235.5
10°	1187.4	1239.5	1312.4	1400.9	1507.7	1632.7	1803.3	1985.5	2192.6	2324.1	2402.2
12.5°	1281.2	1337.1	1368.4	1408.8	1489.5	1628.8	1847.5	2079.3	2322.8	2466.0	2549.3
15°	1419.2	1468.6	1417.9	1367.1	1419.2	1587.1	1872.3	2157.4	2437.3	2602.7	2688.6
17.5°	1514.2	1518.1	1407.5	1299.4	1313.7	1511.6	1881.4	2235.5	2559.7	2732.9	2822.7
20°	1505.1	1473.9	1361.9	1242.1	1197.8	1414.0	1871.0	2304.5	2683.4	2864.4	2952.9
22.5°	1434.8	1398.3	1303.3	1186.1	1100.2	1298.1	1852.7	2367.0	2796.7	3002.4	3085.7
25°	1350.2	1311.1	1233.0	1130.1	1037.7	1186.1	1838.4	2453.0	2939.9	3182.1	3247.2
27.5°	1251.2	1217.4	1151.0	1076.7	1011.6	1101.5	1834.5	2566.2	3113.1	3400.8	3446.4
30°	1154.9	1123.6	1071.5	1028.6	1001.2	1052.0	1821.5	2687.3	3320.1	3652.1	3701.6
32.5°	1062.4	1031.2	998.6	992.1	993.4	1033.8	1777.2	2807.1	3566.2	4016.7	4053.1
35°	983.0	946.5	933.5	949.2	977.8	1002.5	1652.2	2906.1	3830.5	4413.8	4443.7
37.5°	907.5	871.0	869.7	907.5	938.7	954.4	1505.1	3003.7	4187.2	4817.4	4855.1
40°	838.5	802.0	815.0	860.6	885.4	893.2	1326.7	3152.1	4564.8	5243.1	5222.3
42.5°	779.9	742.1	749.9	808.5	830.7	851.5	1162.7	3275.8	4928.0	5646.7	5640.2
45°	722.6	694.0	688.8	752.6	772.1	855.4	1042.9	3370.9	5395.5	6161.0	6171.5
47.5°	666.6	644.5	645.8	673.1	721.3	874.9	941.3	3433.4	6073.8	6976.1	6795.1
50°	615.8	598.9	613.2	582.0	688.8	850.2	854.1	3420.3	6831.6	7757.3	7394.0
52.5°	559.9	556.0	562.5	486.9	636.7	749.9	772.1	3247.2	7187.0	8291.1	8084.1
55°	502.6	501.3	449.2	389.3	532.5	598.9	661.4	2709.4	7175.3	8574.9	8826.2
57.5°	434.9	424.5	341.1	317.7	414.0	416.6	602.8	1774.6	6358.9	7895.3	8416.1
60°	329.4	321.6	250.0	257.8	289.0	266.9	480.4	884.1	4752.3	6150.6	6737.8
62.5°	227.8	217.4	186.2	199.2	186.2	152.3	294.3	437.5	2878.7	3883.8	4416.4
65°	166.7	154.9	127.6	109.4	87.2	87.2	112.0	168.0	1114.5	1650.9	1990.7
67.5°	102.9	97.6	75.5	54.7	53.4	57.3	58.6	83.3	179.7	286.4	350.2
70°	66.4	61.2	50.8	35.2	32.5	33.9	35.2	39.1	45.6	49.5	59.9
72.5°	45.6	43.0	36.5	19.5	15.6	16.9	18.2	18.2	22.1	20.8	24.7
75°	32.5	29.9	26.0	9.1	5.2	6.5	7.8	6.5	7.8	5.2	6.5
77.5°	9.1	9.1	6.5	1.3	0.0	1.3	2.6	2.6	1.3	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	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: P639304

CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1876.2	1906.1	1917.8	1900.9	1915.2	1891.8	1882.7	1847.5	1844.9	1838.4
5°	2128.8	2196.5	2236.8	2261.6	2232.9	2201.7	2154.8	2074.1	2049.3	2033.7
7.5°	2377.4	2482.9	2551.9	2584.5	2576.6	2512.8	2428.2	2292.8	2244.6	2221.2
10°	2593.6	2722.5	2805.8	2846.2	2829.2	2773.2	2652.2	2482.9	2419.1	2404.8
12.5°	2744.6	2863.1	2920.4	2955.5	2956.8	2934.7	2820.1	2649.6	2574.0	2555.8
15°	2839.6	2890.4	2891.7	2912.6	2949.0	2998.5	2945.1	2794.1	2713.4	2686.0
17.5°	2899.5	2843.6	2786.3	2791.5	2851.4	2982.9	3037.6	2921.7	2835.7	2805.8
20°	2942.5	2765.4	2658.7	2660.0	2721.2	2920.4	3101.3	3045.4	2956.8	2929.5
22.5°	2969.8	2696.4	2544.1	2540.2	2605.3	2846.2	3159.9	3192.5	3105.3	3074.0
25°	3025.8	2663.9	2475.1	2497.2	2554.5	2822.7	3239.4	3387.8	3307.1	3265.4
27.5°	3126.1	2696.4	2468.6	2519.4	2584.5	2891.7	3377.4	3648.2	3564.9	3518.0
30°	3299.3	2818.8	2568.8	2639.1	2717.3	3072.7	3609.1	4011.4	3891.7	3847.4
32.5°	3577.9	3072.7	2878.7	3029.7	3105.3	3369.6	3956.8	4419.0	4321.3	4232.8
35°	3962.0	3652.1	3630.0	3981.5	3963.3	3932.0	4383.8	4918.9	4771.8	4685.9
37.5°	4490.6	4584.3	4748.4	5097.3	5085.6	4847.3	4945.0	5391.6	5316.0	5205.4
40°	5150.7	5349.9	5628.5	6128.5	5972.2	5672.8	5633.7	5875.9	5814.7	5684.5
42.5°	5540.0	5883.7	6414.9	6864.1	6739.1	6215.7	6171.5	6523.0	6388.9	6247.0
45°	5721.0	6318.6	7360.2	7968.2	7589.3	6576.4	6559.4	7366.7	7291.2	7101.1
47.5°	5804.3	6757.3	8466.9	9387.4	8679.1	6892.8	6831.6	8590.6	8491.6	8267.7
50°	5896.7	7362.8	9800.1	11031.8	9995.4	7250.8	7295.1	9731.1	9689.4	9425.1
52.5°	6099.8	8003.4	11441.9	12911.9	11591.7	7812.0	8090.6	10806.6	10525.3	10220.7
55°	6404.5	8701.2	13150.1	14832.3	13220.4	8565.8	8951.2	11378.1	10589.1	10251.9
57.5°	6067.3	8875.7	14161.8	16173.4	13943.1	8568.4	8223.4	10387.3	9313.2	8986.4
60°	4814.8	8257.2	13772.5	15883.0	13327.2	7608.9	6296.4	8110.1	7055.5	6836.8
62.5°	3255.0	6925.3	12124.2	13432.7	11406.8	5985.3	4092.2	5274.4	4368.2	4187.2
65°	1783.7	5166.3	9796.2	10162.1	8927.8	4180.7	2105.3	2288.9	1743.4	1662.6
67.5°	492.2	3596.1	7207.8	6741.7	6263.9	2722.5	544.2	408.8	291.6	289.0
70°	123.7	2378.7	4318.7	4451.5	3840.9	1743.4	104.2	49.5	39.1	37.8
72.5°	52.1	1023.4	2049.3	2355.3	1966.0	807.2	37.8	14.3	11.7	9.1
75°	6.5	82.0	174.5	264.3	181.0	87.2	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)