

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: P639308

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-750-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

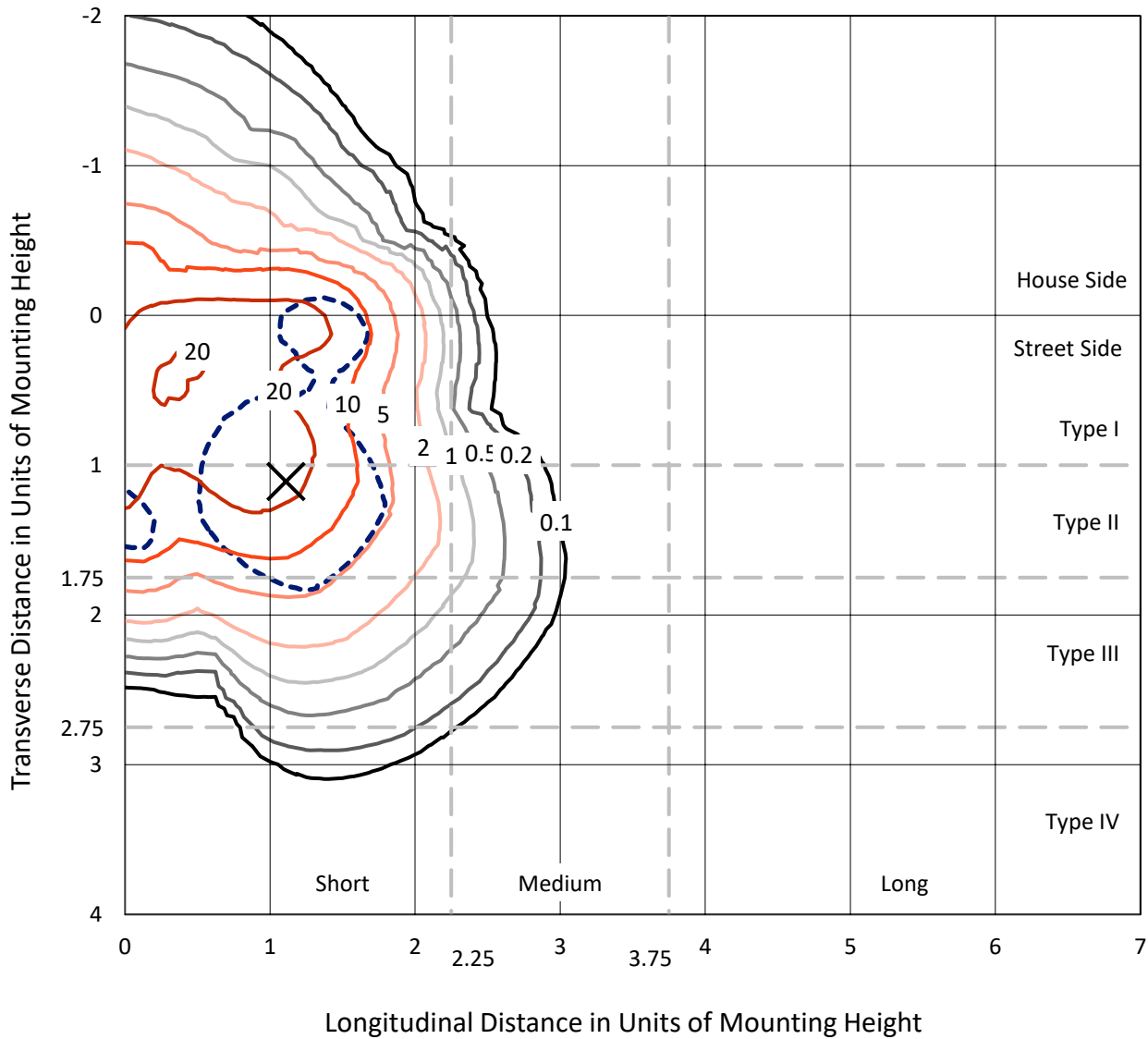
Lumens per Lamp: N/A  
Luminaire Lumens: 9689.7 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

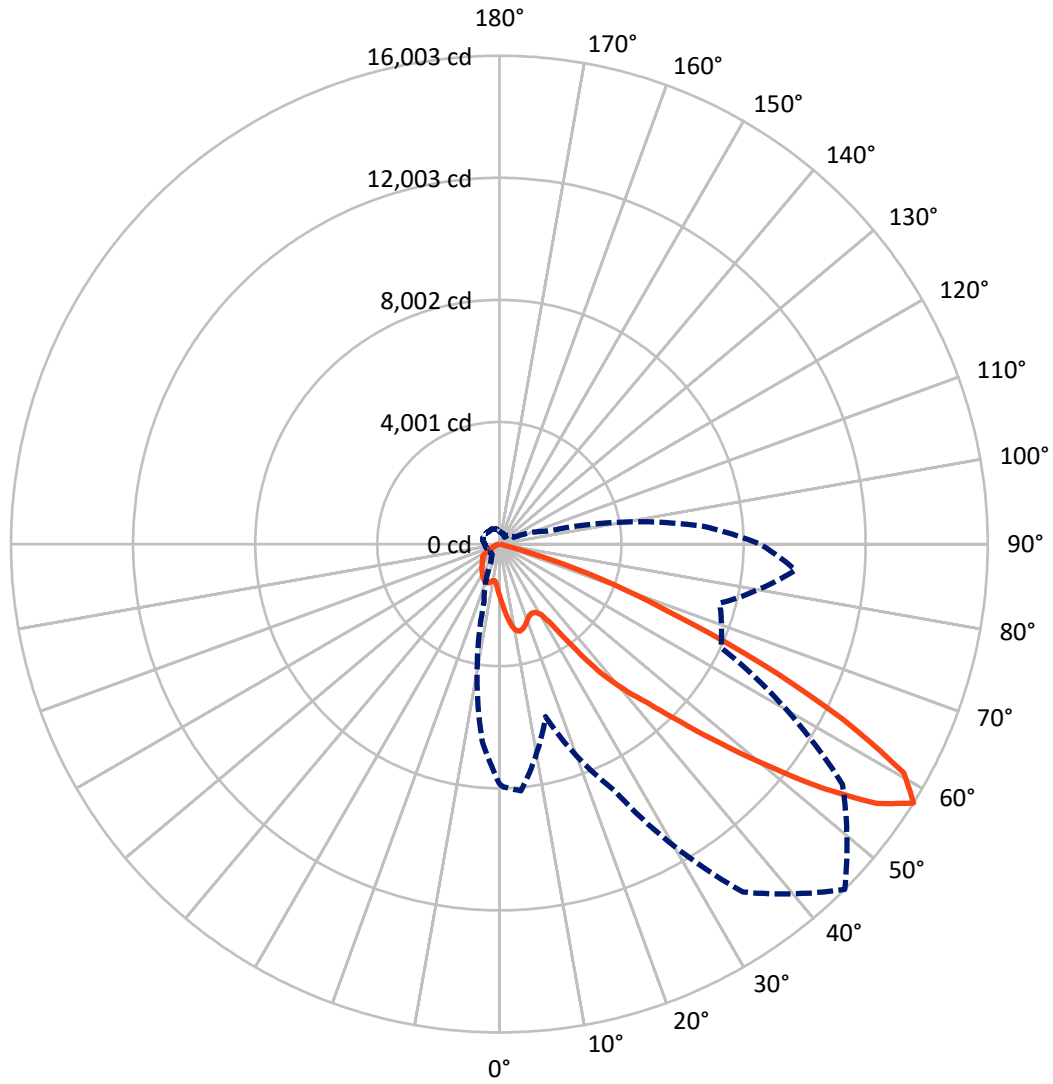
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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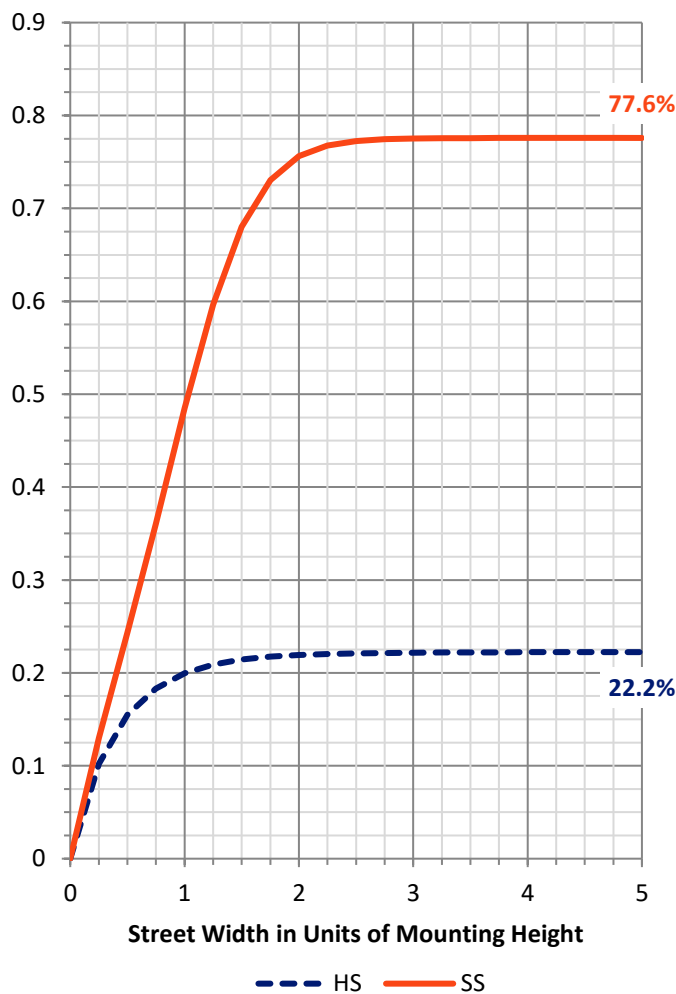
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2169.8	0.0	2169.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	7519.9	0.0	7519.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	9689.7	0.0	9689.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.5	1.7
10°-20°	542.0	5.6
20°-30°	880.4	9.1
30°-40°	1360.4	14.0
40°-50°	2181.4	22.5
50°-60°	2981.4	30.8
60°-70°	1444.0	14.9
70°-80°	132.2	1.4
80°-90°	0.4	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°	9689.7	100.0
0°-180°	9689.7	100.0

**Coefficient of Utilization**



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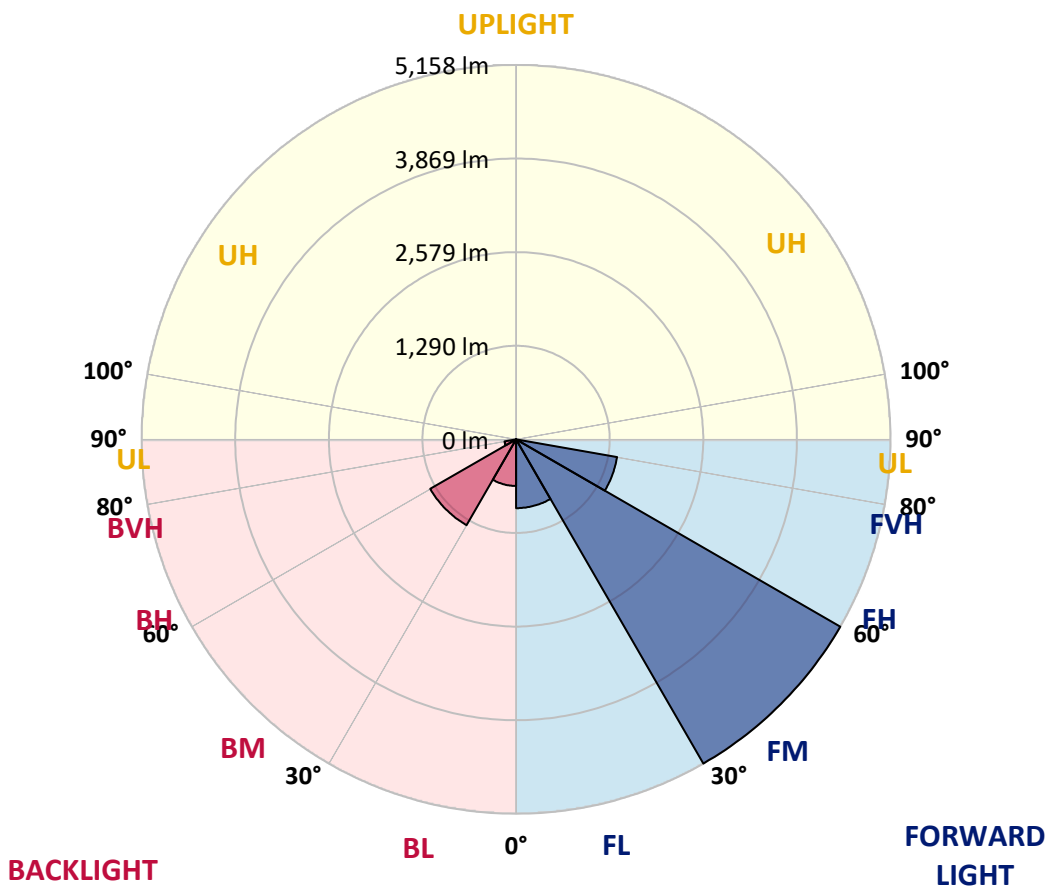
CATALOG NUMBER: GWS-SA5B-750-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.9	9.8			
FM (30°-60°)	5158.0	53.2			
FH (60°-80°)	1413.5	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	642.0	6.6	B2/1000		
BM (30°-60°)	1365.1	14.1	B2/2500		
BH (60°-80°)	162.6	1.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1845.0	1856.7	1876.2	1917.9	1953.1	1976.5	1986.9	1984.3	1970.0	1959.6	1938.7
5°	2042.9	2042.9	2080.7	2175.7	2248.6	2294.2	2317.6	2303.3	2274.7	2229.1	2158.8
7.5°	2216.1	2222.6	2286.4	2421.8	2532.5	2597.6	2635.3	2627.5	2576.7	2489.5	2348.9
10°	2351.5	2359.3	2443.9	2609.3	2739.5	2805.9	2861.9	2867.1	2811.1	2695.2	2533.8
12.5°	2483.0	2490.8	2579.3	2738.2	2852.8	2880.1	2929.6	2949.1	2934.8	2852.8	2684.8
15°	2624.9	2643.1	2718.7	2837.1	2885.3	2852.8	2885.3	2920.5	2968.7	2960.8	2809.8
17.5°	2764.2	2777.3	2854.1	2895.7	2842.4	2757.7	2773.3	2815.0	2924.4	3031.1	2933.5
20°	2893.1	2911.4	2975.2	2920.5	2759.0	2627.5	2628.8	2683.5	2850.2	3074.1	3059.8
22.5°	3028.5	3055.9	3101.5	2947.8	2682.2	2524.7	2531.2	2580.6	2791.6	3114.5	3203.0
25°	3205.6	3231.7	3261.6	3015.5	2657.5	2473.9	2498.6	2544.2	2791.6	3183.5	3380.1
27.5°	3445.2	3463.4	3464.7	3141.8	2700.4	2481.7	2533.8	2585.9	2874.9	3321.5	3617.1
30°	3746.0	3774.6	3736.9	3338.4	2834.5	2585.9	2662.7	2727.8	3054.6	3554.6	3966.0
32.5°	4111.8	4152.2	4101.4	3630.1	3114.5	2945.2	3084.5	3122.3	3341.0	3891.8	4361.8
35°	4541.5	4575.4	4520.7	4033.7	3768.1	3799.4	4051.9	4003.8	3916.5	4307.1	4824.1
37.5°	5012.9	5044.1	4938.6	4645.7	4734.2	4869.6	5273.3	5107.9	4826.7	4842.3	5325.3
40°	5445.1	5479.0	5313.6	5311.0	5493.3	5740.7	6227.7	5999.8	5617.0	5542.8	5795.4
42.5°	5893.0	5916.5	5766.7	5665.2	6079.2	6588.3	7103.9	6796.7	6140.4	6059.7	6383.9
45°	6532.3	6581.8	6314.9	5839.7	6606.6	7563.6	8282.3	7682.0	6497.2	6432.1	7284.9
47.5°	7472.4	7508.9	6964.6	5949.0	7097.4	8778.4	9754.9	8830.4	6811.0	6662.5	8516.6
50°	8249.7	8274.5	7562.3	6068.8	7619.5	10088.2	11433.2	10192.4	7163.8	7044.0	9666.3
52.5°	8822.6	8916.4	8347.4	6314.9	8305.7	11628.5	13291.2	11805.6	7714.6	7781.0	10619.4
55°	8941.1	9068.7	8883.8	6465.9	8909.9	13197.5	15007.3	13249.6	8264.1	8339.6	10939.7
57.5°	7857.8	7959.4	8113.0	5856.6	8895.5	13916.2	16003.4	13728.7	8014.1	7478.9	9740.6
60°	5886.5	5956.8	6235.5	4476.4	8180.7	13280.8	15227.4	12913.6	7007.6	5706.8	7421.6
62.5°	3490.8	3522.0	3874.9	2899.6	6790.1	11437.1	12628.5	11142.9	5537.6	3838.4	4545.4
65°	1339.8	1326.8	1596.3	1430.9	4993.3	9110.4	9392.9	8494.5	3799.4	1759.1	1733.0
67.5°	207.0	197.9	266.9	423.2	3601.4	6313.6	6197.7	6122.2	2380.1	410.1	358.1
70°	46.9	46.9	57.3	125.0	2200.4	3709.5	3969.9	3785.0	1523.4	87.2	46.9
72.5°	22.1	22.1	27.3	53.4	796.8	1528.6	1781.2	1753.8	494.8	28.6	16.9
75°	7.8	9.1	9.1	11.7	48.2	79.4	182.3	130.2	31.2	0.0	0.0
77.5°	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1893.2	1884.1	1850.2	1804.6	1760.4	1721.3	1680.9	1632.8	1597.6	1557.2	1544.2
5°	2104.1	2046.8	1954.4	1858.0	1769.5	1694.0	1621.0	1542.9	1485.6	1428.3	1408.8
7.5°	2282.5	2197.8	2048.1	1903.6	1782.5	1675.7	1570.3	1463.5	1380.2	1312.5	1291.6
10°	2442.6	2345.0	2144.5	1966.1	1813.7	1690.0	1562.4	1428.3	1320.3	1239.5	1220.0
12.5°	2580.6	2467.4	2226.5	2013.0	1826.8	1684.8	1561.1	1454.4	1356.7	1264.3	1239.5
15°	2696.5	2571.5	2295.5	2044.2	1807.2	1619.7	1511.7	1494.7	1486.9	1385.4	1337.2
17.5°	2809.8	2669.2	2351.5	2058.5	1752.5	1505.2	1427.0	1503.9	1585.9	1519.5	1458.3
20°	2928.3	2768.1	2408.8	2061.1	1661.4	1376.3	1363.2	1484.3	1588.5	1567.7	1510.4
22.5°	3067.6	2891.8	2480.4	2059.8	1546.8	1266.9	1316.4	1446.6	1531.2	1529.9	1484.3
25°	3269.4	3048.1	2576.7	2067.6	1421.8	1182.3	1264.3	1382.8	1451.8	1449.2	1411.4
27.5°	3485.6	3234.3	2701.7	2087.2	1315.1	1132.8	1203.1	1295.5	1355.4	1352.8	1320.3
30°	3788.9	3449.1	2821.5	2088.5	1238.2	1106.7	1135.4	1199.2	1256.5	1250.0	1225.2
32.5°	4157.4	3691.3	2921.8	2014.3	1190.1	1082.0	1065.1	1097.6	1141.9	1132.8	1126.3
35°	4602.7	3979.0	3007.7	1851.5	1115.8	1032.5	986.9	993.5	1024.7	1029.9	1027.3
37.5°	5110.5	4321.5	3114.5	1636.7	1015.6	960.9	899.7	894.5	912.7	929.7	942.7
40°	5611.8	4706.9	3259.0	1419.2	924.4	869.8	811.2	798.2	806.0	835.9	863.3
42.5°	6175.6	5153.5	3415.3	1233.0	862.0	769.5	713.5	688.8	710.9	759.1	791.6
45°	6988.1	5779.8	3567.6	1084.6	835.9	681.0	605.4	602.8	627.6	690.1	726.5
47.5°	8128.6	6589.6	3667.8	968.7	834.6	612.0	522.1	537.7	566.4	627.6	669.2
50°	9240.6	7603.9	3557.2	880.2	807.3	566.4	459.6	490.9	519.5	572.9	615.9
52.5°	9911.1	8149.5	3126.2	796.8	722.6	545.6	398.4	453.1	458.3	506.5	552.1
55°	9840.8	7796.6	2394.5	667.9	597.6	515.6	334.6	408.8	411.4	447.9	487.0
57.5°	8541.4	6693.8	1644.5	541.6	449.2	425.8	276.0	345.0	369.8	391.9	420.6
60°	6365.7	4884.0	733.0	440.1	285.1	287.8	235.7	260.4	298.2	324.2	348.9
62.5°	3751.2	2809.8	298.2	264.3	157.5	181.0	190.1	190.1	213.5	233.1	248.7
65°	1417.9	983.0	121.1	132.8	82.0	84.6	112.0	138.0	156.2	173.2	194.0
67.5°	248.7	171.9	62.5	49.5	48.2	43.0	57.3	89.8	100.3	113.3	122.4
70°	41.7	35.2	26.0	24.7	22.1	23.4	37.8	63.8	70.3	74.2	78.1
72.5°	11.7	10.4	7.8	6.5	5.2	6.5	23.4	49.5	52.1	54.7	58.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	35.2	37.8	39.1	43.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	10.4	13.0	10.4
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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1536.4	1510.4	1496.0	1488.2	1488.2	1477.8	1466.1	1462.2	1479.1	1479.1	1507.8
5°	1384.1	1363.2	1339.8	1325.5	1303.3	1307.2	1294.2	1292.9	1309.9	1317.7	1347.6
7.5°	1278.6	1252.6	1238.2	1229.1	1217.4	1212.2	1200.5	1196.6	1205.7	1218.7	1247.4
10°	1208.3	1204.4	1203.1	1209.6	1209.6	1203.1	1192.7	1186.2	1188.8	1213.5	1246.1
12.5°	1226.5	1234.3	1236.9	1247.4	1252.6	1247.4	1239.5	1242.1	1259.1	1304.6	1352.8
15°	1305.9	1299.4	1296.8	1302.0	1305.9	1300.7	1298.1	1317.7	1376.3	1441.4	1496.0
17.5°	1390.6	1348.9	1330.7	1330.7	1333.3	1330.7	1333.3	1371.0	1466.1	1531.2	1571.6
20°	1433.5	1356.7	1328.1	1321.6	1326.8	1328.1	1337.2	1380.2	1484.3	1529.9	1539.0
22.5°	1420.5	1324.2	1291.6	1286.4	1291.6	1296.8	1305.9	1342.4	1440.1	1463.5	1459.6
25°	1355.4	1260.4	1234.3	1234.3	1246.1	1244.8	1248.7	1274.7	1355.4	1369.7	1363.2
27.5°	1273.4	1183.6	1161.4	1174.4	1184.9	1182.3	1183.6	1205.7	1265.6	1269.5	1263.0
30°	1190.1	1111.9	1091.1	1106.7	1121.1	1118.5	1119.8	1141.9	1179.6	1175.7	1166.6
32.5°	1105.4	1048.1	1032.5	1041.6	1063.8	1061.2	1066.4	1089.8	1104.1	1087.2	1076.8
35°	1027.3	997.4	985.6	990.9	1007.8	1011.7	1020.8	1036.4	1036.4	1015.6	997.4
37.5°	954.4	950.5	942.7	936.2	951.8	963.5	976.5	994.8	968.7	938.8	921.8
40°	886.7	903.6	893.2	876.3	885.4	902.3	928.4	942.7	911.4	881.5	852.8
42.5°	824.2	852.8	848.9	828.1	835.9	851.5	881.5	893.2	856.7	822.9	795.5
45°	764.3	804.7	807.3	781.2	789.0	804.7	839.8	843.7	796.8	760.4	740.9
47.5°	712.2	756.5	757.8	738.3	740.9	763.0	795.5	796.8	743.5	709.6	684.9
50°	662.7	713.5	717.4	700.5	703.1	729.1	756.5	751.3	694.0	658.8	636.7
52.5°	602.8	671.9	681.0	673.2	683.6	704.4	721.3	703.1	636.7	601.5	582.0
55°	537.7	627.6	647.1	641.9	653.6	670.6	674.5	662.7	579.4	544.3	526.0
57.5°	462.2	516.9	550.8	540.3	549.5	566.4	578.1	569.0	506.5	479.2	463.5
60°	382.8	419.3	427.1	410.1	402.3	432.3	459.6	447.9	394.5	377.6	359.4
62.5°	279.9	321.6	326.8	304.7	295.6	328.1	351.6	339.8	281.2	263.0	248.7
65°	224.0	263.0	273.4	252.6	247.4	272.1	286.4	257.8	216.1	196.6	181.0
67.5°	147.1	178.4	205.7	204.4	194.0	201.8	191.4	168.0	138.0	127.6	117.2
70°	91.1	109.4	126.3	132.8	131.5	128.9	114.6	97.7	88.5	84.6	79.4
72.5°	70.3	88.5	101.6	105.5	106.8	102.9	91.1	75.5	66.4	61.2	57.3
75°	52.1	66.4	76.8	82.0	84.6	82.0	70.3	59.9	50.8	46.9	43.0
77.5°	18.2	22.1	27.3	29.9	28.6	27.3	24.7	24.7	19.5	18.2	15.6
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: P639308

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1540.3	1563.8	1606.7	1645.8	1687.4	1730.4	1777.3	1825.5	1847.6	1845.0
5°	1393.2	1444.0	1514.3	1591.1	1677.0	1769.5	1872.3	1977.8	2023.4	2042.9
7.5°	1300.7	1372.4	1464.8	1562.4	1675.7	1807.2	1962.2	2127.5	2193.9	2216.1
10°	1312.5	1395.8	1472.6	1567.7	1688.7	1859.3	2052.0	2248.6	2326.7	2351.5
12.5°	1407.5	1425.7	1446.6	1524.7	1677.0	1898.4	2134.0	2368.4	2458.3	2483.0
15°	1493.4	1408.8	1369.7	1441.4	1635.4	1925.7	2217.4	2497.3	2596.3	2624.9
17.5°	1497.3	1369.7	1282.5	1338.5	1567.7	1937.4	2299.4	2628.8	2736.9	2764.2
20°	1449.2	1326.8	1214.8	1216.1	1475.2	1934.8	2367.1	2747.3	2868.4	2893.1
22.5°	1378.9	1276.0	1160.1	1119.8	1376.3	1929.6	2441.3	2873.6	3005.1	3028.5
25°	1300.7	1210.9	1108.0	1046.8	1277.3	1934.8	2545.5	3039.0	3183.5	3205.6
27.5°	1216.1	1139.3	1067.7	1018.2	1194.0	1954.4	2670.5	3249.9	3421.8	3445.2
30°	1127.6	1070.3	1041.6	1011.7	1141.9	1959.6	2805.9	3496.0	3713.4	3746.0
32.5°	1040.3	1009.1	1010.4	1015.6	1092.4	1923.1	2929.6	3769.4	4059.8	4111.8
35°	959.6	950.5	976.5	1002.6	1020.8	1829.4	3037.7	4092.3	4488.1	4541.5
37.5°	890.6	898.4	931.0	957.0	942.7	1696.6	3180.9	4495.9	4967.3	5012.9
40°	824.2	843.7	881.5	893.2	882.8	1541.6	3352.8	4885.3	5382.6	5445.1
42.5°	763.0	777.3	830.7	833.3	865.9	1384.1	3518.1	5304.5	5860.5	5893.0
45°	713.5	710.9	765.6	782.5	888.0	1209.6	3679.6	5863.1	6485.5	6532.3
47.5°	665.3	662.7	675.8	752.6	897.1	1048.1	3839.7	6680.8	7391.7	7472.4
50°	619.8	623.7	583.3	738.3	847.6	924.4	3912.6	7437.3	8215.9	8249.7
52.5°	579.4	565.1	494.8	691.4	742.2	807.3	3705.6	7781.0	8726.3	8822.6
55°	522.1	442.7	407.5	561.2	585.9	704.4	3035.1	7581.8	8770.5	8941.1
57.5°	446.6	347.6	346.3	414.0	414.0	653.6	1943.9	6477.7	7558.3	7857.8
60°	343.7	269.5	286.4	287.8	265.6	476.5	1091.1	4692.6	5588.4	5886.5
62.5°	244.8	205.7	216.1	171.9	152.3	238.3	523.4	2701.7	3449.1	3490.8
65°	164.1	139.3	113.3	95.0	93.7	101.6	216.1	976.5	1187.5	1339.8
67.5°	108.1	84.6	59.9	59.9	67.7	67.7	82.0	161.5	226.6	207.0
70°	70.3	58.6	37.8	36.5	44.3	44.3	41.7	44.3	46.9	46.9
72.5°	52.1	44.3	22.1	19.5	24.7	26.0	23.4	22.1	22.1	22.1
75°	39.1	31.2	13.0	9.1	11.7	15.6	13.0	9.1	9.1	7.8
77.5°	15.6	11.7	5.2	3.9	6.5	9.1	7.8	3.9	2.6	2.6
80°	1.3	2.6	2.6	2.6	3.9	5.2	6.5	2.6	1.3	1.3
82.5°	0.0	1.3	1.3	1.3	2.6	3.9	5.2	2.6	1.3	1.3
85°	0.0	0.0	0.0	0.0	2.6	3.9	2.6	1.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.3	3.9	2.6	1.3	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)