

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: P639249

Luminaire Tested: GWS-SA5B-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639249  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

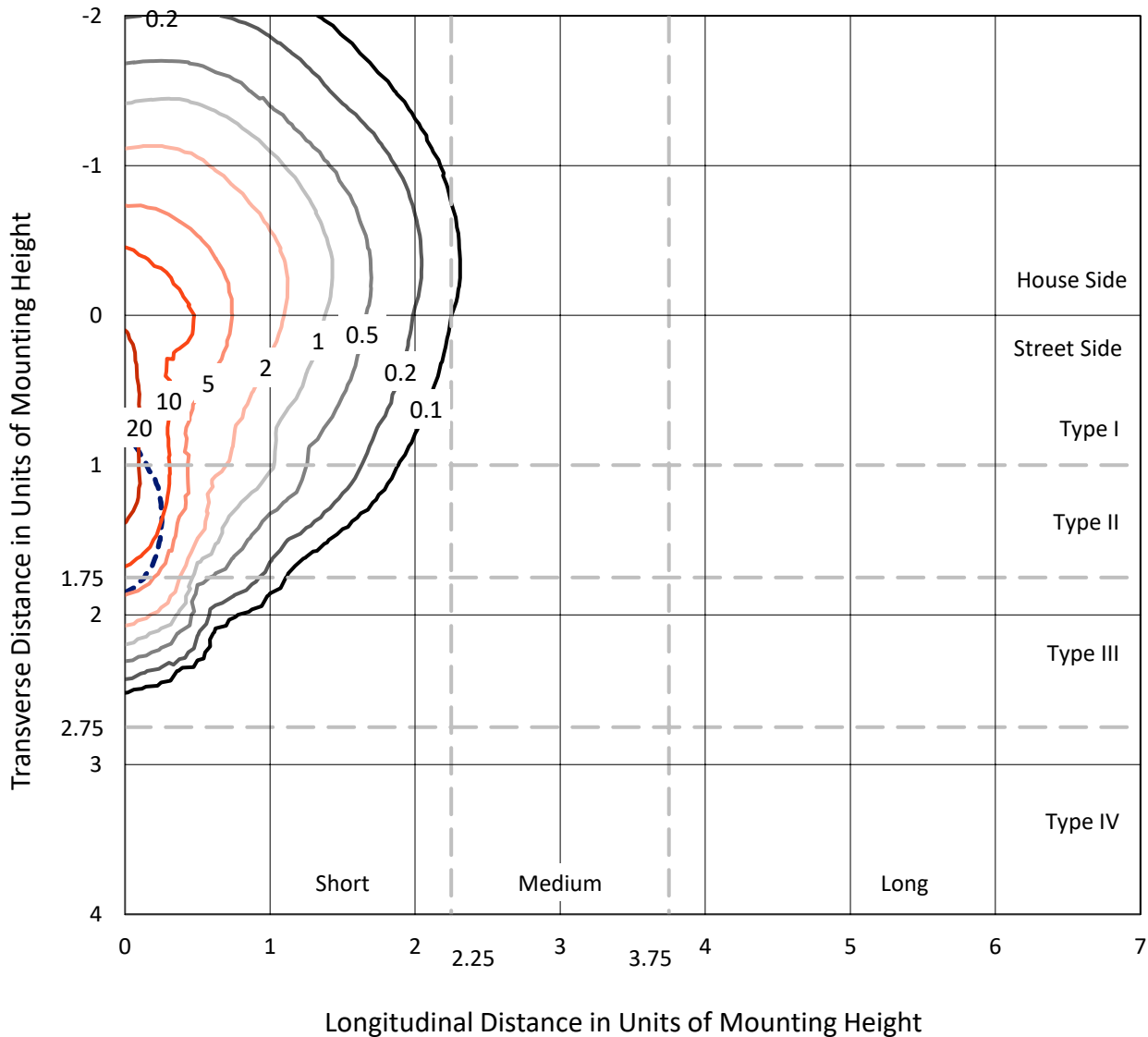
Lumens per Lamp: N/A  
Luminaire Lumens: 9521 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P639249  
 CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

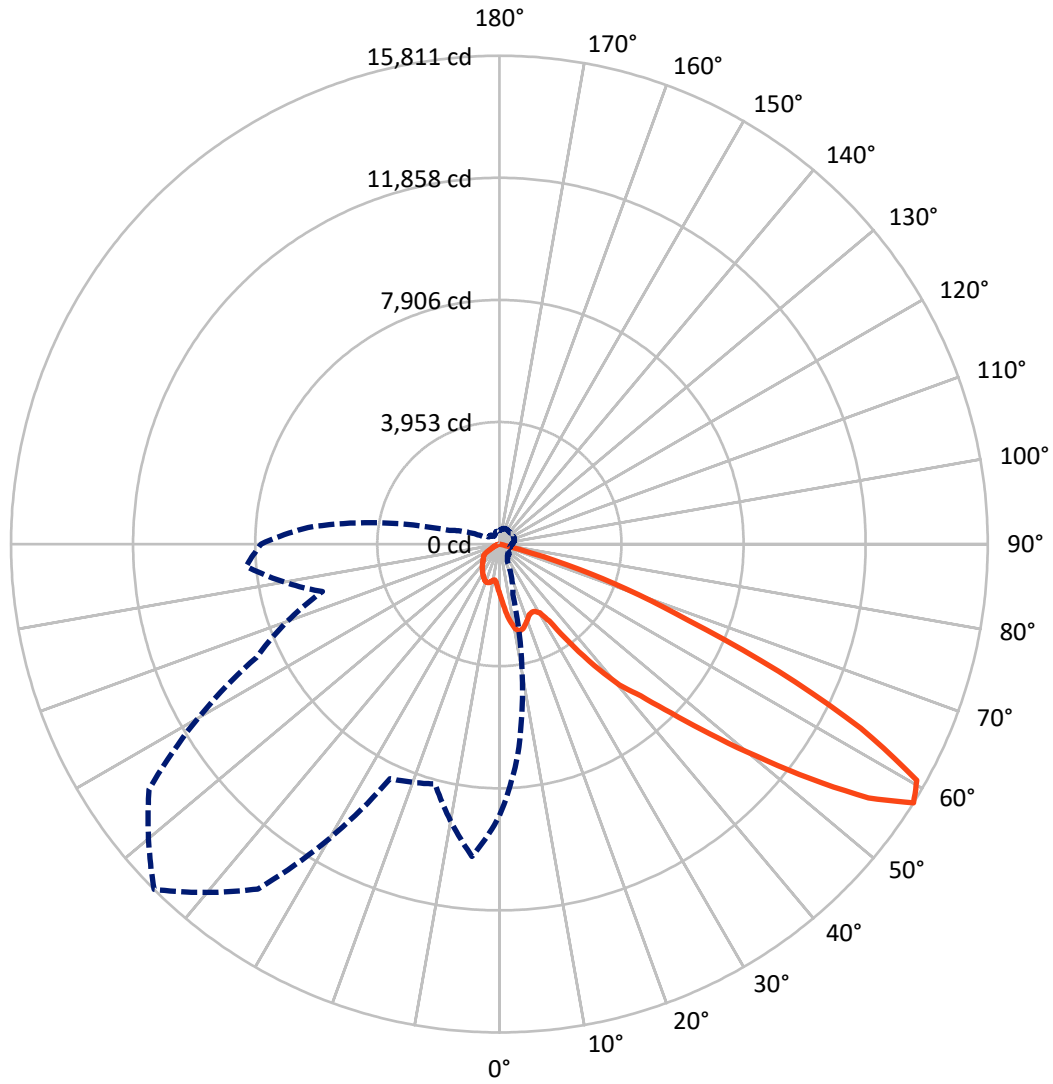
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P639249  
CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P639249

CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSBK

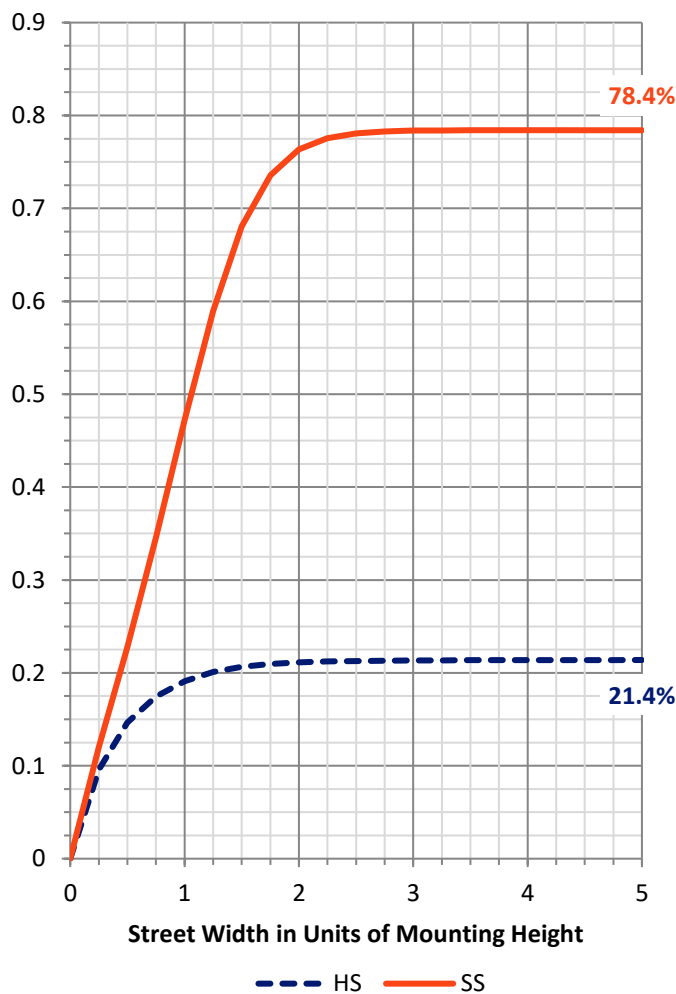
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2051.1	0.0	2051.1
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	7469.9	0.0	7469.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	9521.0	0.0	9521.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	1.7
10°-20°	526.1	5.5
20°-30°	853.9	9.0
30°-40°	1310.5	13.8
40°-50°	2092.9	22.0
50°-60°	2930.5	30.8
60°-70°	1502.5	15.8
70°-80°	144.7	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°	9521.0	100.0
0°-180°	9521.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639249

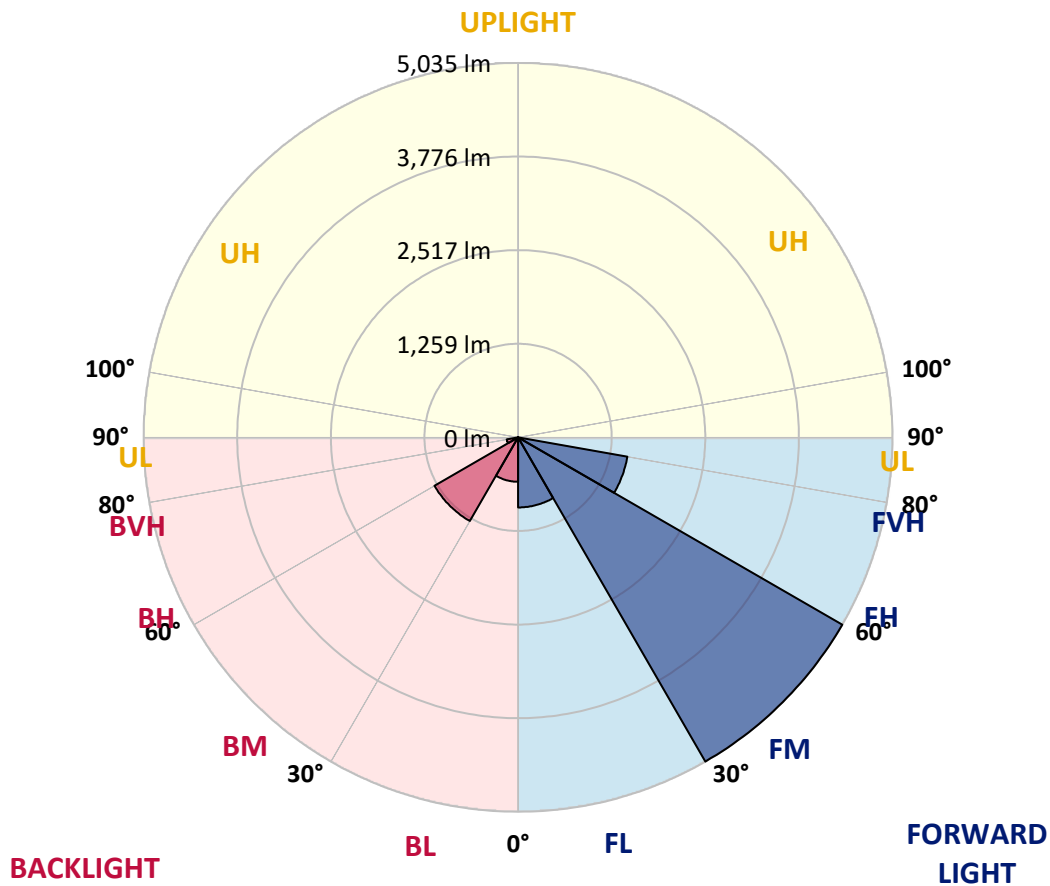
CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.6	9.9			
FM (30°-60°)	5034.9	52.9			
FH (60°-80°)	1492.3	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	597.3	6.3	B2/1000		
BM (30°-60°)	1299.0	13.6	B2/2500		
BH (60°-80°)	154.9	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: P639249

CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8
2.5°	1797.2	1793.4	1780.7	1737.4	1710.7	1668.7	1638.1	1598.7	1555.4	1528.7	1501.9
5°	1988.2	1978.0	1943.6	1844.3	1768.0	1685.2	1619.0	1546.5	1468.8	1417.9	1370.8
7.5°	2171.4	2156.2	2110.3	1942.3	1826.5	1708.1	1613.9	1508.3	1398.8	1322.5	1263.9
10°	2350.9	2316.5	2244.0	2037.8	1881.2	1738.7	1627.9	1507.0	1378.5	1281.7	1216.8
12.5°	2498.6	2473.1	2373.8	2128.2	1927.1	1745.0	1608.8	1496.8	1410.3	1345.4	1285.6
15°	2625.8	2597.8	2503.6	2209.6	1966.5	1719.6	1528.7	1430.7	1444.7	1470.1	1419.2
17.5°	2742.9	2713.7	2611.8	2277.1	1981.8	1657.2	1416.7	1369.6	1447.2	1542.7	1523.6
20°	2863.9	2830.8	2706.0	2331.8	1976.7	1559.2	1303.4	1317.4	1426.8	1536.3	1546.5
22.5°	3005.1	2970.8	2825.7	2401.8	1972.9	1442.1	1205.4	1271.6	1388.7	1481.6	1499.4
25°	3192.2	3151.5	2992.4	2504.9	1983.1	1335.2	1135.4	1227.0	1323.7	1407.7	1417.9
27.5°	3439.2	3387.0	3184.6	2632.2	2004.7	1251.2	1104.8	1165.9	1241.0	1316.1	1325.0
30°	3761.2	3695.0	3404.8	2742.9	1994.5	1192.6	1084.4	1104.8	1149.4	1210.5	1211.7
32.5°	4137.9	4047.6	3651.7	2838.4	1906.7	1149.4	1056.4	1042.4	1052.6	1099.7	1108.6
35°	4580.9	4463.8	3924.1	2928.8	1746.3	1065.4	1005.5	958.4	954.6	977.5	999.2
37.5°	5088.7	4948.7	4267.8	3044.6	1556.7	977.5	930.4	883.3	863.0	874.4	907.5
40°	5557.1	5401.9	4626.7	3184.6	1363.2	898.6	842.6	794.2	770.1	773.9	814.6
42.5°	6107.0	5946.6	5065.8	3367.9	1202.8	845.2	751.0	701.3	669.5	687.3	734.4
45°	6942.0	6760.0	5706.1	3527.0	1075.5	832.4	670.8	600.8	585.5	616.0	672.1
47.5°	8082.4	7859.7	6585.6	3623.7	967.3	843.9	614.8	519.3	523.1	557.5	613.5
50°	9214.0	8973.4	7602.6	3496.4	878.2	821.0	586.8	455.7	479.9	510.4	561.3
52.5°	9991.7	9678.6	8097.7	3128.6	796.8	734.4	584.2	395.8	441.7	451.9	495.1
55°	10022.2	9636.5	7844.4	2466.7	686.1	619.9	557.5	346.2	399.7	403.5	440.4
57.5°	8785.0	8436.3	6855.4	1694.1	609.7	454.4	444.2	302.9	328.4	360.2	383.1
60°	6683.6	6387.0	5126.9	776.4	463.3	288.9	304.2	260.9	245.7	292.7	315.7
62.5°	4093.4	3903.8	3075.1	343.7	295.3	154.0	184.6	207.5	184.6	202.4	221.5
65°	1625.4	1541.4	1167.2	146.4	120.9	77.6	84.0	120.9	129.8	142.6	160.4
67.5°	282.6	267.3	196.0	64.9	49.6	47.1	40.7	56.0	78.9	87.8	101.8
70°	36.9	35.6	31.8	26.7	25.5	22.9	17.8	35.6	53.5	56.0	64.9
72.5°	8.9	7.6	7.6	6.4	7.6	2.5	2.5	19.1	38.2	39.5	45.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	24.2	26.7	31.8
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: P639249

CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8
2.5°	1480.3	1454.8	1445.9	1433.2	1416.7	1421.7	1398.8	1391.2	1402.7	1417.9	1414.1
5°	1345.4	1317.4	1298.3	1269.0	1263.9	1252.5	1244.8	1234.6	1247.4	1265.2	1269.0
7.5°	1238.5	1214.3	1195.2	1186.3	1179.9	1174.8	1159.5	1151.9	1151.9	1159.5	1165.9
10°	1192.6	1174.8	1171.0	1173.5	1183.7	1182.5	1168.5	1158.3	1145.5	1139.2	1146.8
12.5°	1256.3	1227.0	1221.9	1223.2	1235.9	1234.6	1219.4	1206.6	1204.1	1206.6	1230.8
15°	1364.5	1319.9	1286.8	1280.5	1286.8	1284.3	1272.8	1265.2	1269.0	1305.9	1346.6
17.5°	1461.2	1392.5	1332.6	1309.7	1308.5	1304.6	1293.2	1290.6	1309.7	1378.5	1438.3
20°	1489.2	1421.7	1336.5	1307.2	1300.8	1297.0	1284.3	1288.1	1312.3	1395.0	1445.9
22.5°	1452.3	1387.4	1298.3	1269.0	1263.9	1262.6	1249.9	1255.0	1275.4	1347.9	1389.9
25°	1382.3	1327.6	1234.6	1209.2	1209.2	1206.6	1195.2	1197.7	1210.5	1274.1	1314.8
27.5°	1297.0	1244.8	1167.2	1141.7	1145.5	1149.4	1135.4	1131.5	1141.7	1201.5	1225.7
30°	1199.0	1162.1	1101.0	1078.1	1076.8	1092.1	1073.0	1067.9	1081.9	1129.0	1134.1
32.5°	1103.5	1085.7	1042.4	1024.6	1025.9	1028.4	1018.3	1018.3	1031.0	1056.4	1055.2
35°	1010.6	999.2	991.5	978.8	977.5	972.4	972.4	975.0	989.0	997.9	981.3
37.5°	921.5	933.0	941.9	929.2	919.0	919.0	919.0	930.4	943.2	939.3	911.3
40°	842.6	866.8	894.8	880.8	856.6	855.3	860.4	879.5	898.6	875.7	850.2
42.5°	775.1	805.7	845.2	837.5	810.8	807.0	810.8	835.0	850.2	821.0	793.0
45°	709.0	747.1	794.2	794.2	765.0	761.1	762.4	794.2	803.2	768.8	733.1
47.5°	653.0	695.0	744.6	744.6	720.4	712.8	719.1	752.2	758.6	710.2	677.1
50°	599.5	645.3	700.1	696.2	679.7	673.3	684.8	720.4	712.8	659.3	625.0
52.5°	532.0	580.4	655.5	659.3	650.4	651.7	665.7	688.6	667.0	602.0	572.8
55°	470.9	520.6	595.7	616.0	616.0	614.8	621.1	639.0	621.1	543.5	507.9
57.5°	404.8	446.8	509.1	514.2	518.0	504.0	512.9	537.1	528.2	462.0	441.7
60°	332.2	367.8	403.5	407.3	390.8	361.5	378.0	406.0	412.4	362.8	339.8
62.5°	235.5	269.8	311.8	311.8	295.3	266.0	287.7	311.8	302.9	252.0	238.0
65°	175.6	207.5	239.3	253.3	239.3	218.9	235.5	253.3	239.3	197.3	176.9
67.5°	113.3	134.9	154.0	165.5	168.0	165.5	173.1	168.0	151.5	123.5	112.0
70°	68.7	80.2	90.4	100.6	108.2	112.0	115.8	104.4	87.8	72.6	68.7
72.5°	49.6	59.8	68.7	76.4	85.3	87.8	87.8	80.2	64.9	50.9	47.1
75°	34.4	43.3	50.9	56.0	63.6	66.2	66.2	59.8	48.4	36.9	33.1
77.5°	1.3	8.9	8.9	7.6	10.2	12.7	12.7	15.3	14.0	10.2	8.9
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°	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8
2.5°	1421.7	1467.6	1480.3	1527.4	1569.4	1611.4	1662.3	1692.9	1738.7	1770.5	1788.3
5°	1281.7	1319.9	1365.7	1435.7	1508.3	1588.5	1685.2	1769.2	1874.9	1952.5	1978.0
7.5°	1179.9	1229.5	1283.0	1370.8	1470.1	1577.0	1713.2	1850.7	2012.3	2118.0	2185.4
10°	1160.8	1211.7	1283.0	1369.6	1473.9	1596.1	1762.9	1941.1	2143.4	2272.0	2348.4
12.5°	1252.5	1307.2	1337.7	1377.2	1456.1	1592.3	1806.1	2032.7	2270.7	2410.7	2492.2
15°	1387.4	1435.7	1386.1	1336.5	1387.4	1551.6	1830.3	2109.1	2382.7	2544.4	2628.4
17.5°	1480.3	1484.1	1375.9	1270.3	1284.3	1477.7	1839.2	2185.4	2502.4	2671.7	2759.5
20°	1471.4	1440.8	1331.4	1214.3	1171.0	1382.3	1829.0	2252.9	2623.3	2800.2	2886.8
22.5°	1402.7	1367.0	1274.1	1159.5	1075.5	1269.0	1811.2	2314.0	2734.0	2935.1	3016.6
25°	1319.9	1281.7	1205.4	1104.8	1014.4	1159.5	1797.2	2398.0	2874.0	3110.8	3174.4
27.5°	1223.2	1190.1	1125.2	1052.6	989.0	1076.8	1793.4	2508.7	3043.3	3324.6	3369.2
30°	1129.0	1098.4	1047.5	1005.5	978.8	1028.4	1780.7	2627.1	3245.7	3570.3	3618.6
32.5°	1038.6	1008.1	976.3	969.9	971.2	1010.6	1737.4	2744.2	3486.3	3926.7	3962.3
35°	961.0	925.3	912.6	927.9	955.9	980.1	1615.2	2840.9	3744.6	4314.9	4344.1
37.5°	887.2	851.5	850.2	887.2	917.7	933.0	1471.4	2936.4	4093.4	4709.4	4746.4
40°	819.7	784.1	796.8	841.3	865.5	873.2	1297.0	3081.5	4462.5	5125.7	5105.3
42.5°	762.4	725.5	733.1	790.4	812.1	832.4	1136.6	3202.4	4817.6	5520.2	5513.9
45°	706.4	678.4	673.3	735.7	754.8	836.2	1019.5	3295.3	5274.6	6023.0	6033.2
47.5°	651.7	630.0	631.3	658.0	705.1	855.3	920.3	3356.4	5937.7	6819.8	6642.9
50°	602.0	585.5	599.5	569.0	673.3	831.2	835.0	3343.7	6678.5	7583.5	7228.4
52.5°	547.3	543.5	549.9	476.0	622.4	733.1	754.8	3174.4	7026.0	8105.3	7903.0
55°	491.3	490.0	439.1	380.6	520.6	585.5	646.6	2648.7	7014.5	8382.8	8628.5
57.5°	425.1	414.9	333.5	310.6	404.8	407.3	589.3	1734.9	6216.5	7718.4	8227.5
60°	322.0	314.4	244.4	252.0	282.6	260.9	469.7	864.2	4645.8	6012.8	6586.9
62.5°	222.7	212.6	182.0	194.7	182.0	148.9	287.7	427.7	2814.2	3796.8	4317.4
65°	162.9	151.5	124.7	106.9	85.3	85.3	109.5	164.2	1089.5	1613.9	1946.1
67.5°	100.6	95.5	73.8	53.5	52.2	56.0	57.3	81.5	175.6	280.0	342.4
70°	64.9	59.8	49.6	34.4	31.8	33.1	34.4	38.2	44.5	48.4	58.5
72.5°	44.5	42.0	35.6	19.1	15.3	16.5	17.8	17.8	21.6	20.4	24.2
75°	31.8	29.3	25.5	8.9	5.1	6.4	7.6	6.4	7.6	5.1	6.4
77.5°	8.9	8.9	6.4	1.3	0.0	1.3	2.5	2.5	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: P639249

CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8	1617.8
2.5°	1834.1	1863.4	1874.9	1858.3	1872.3	1849.4	1840.5	1806.1	1803.6	1797.2
5°	2081.1	2147.3	2186.7	2210.9	2182.9	2152.3	2106.5	2027.6	2003.4	1988.2
7.5°	2324.2	2427.3	2494.7	2526.6	2518.9	2456.5	2373.8	2241.4	2194.3	2171.4
10°	2535.5	2661.5	2742.9	2782.4	2765.8	2711.1	2592.7	2427.3	2364.9	2350.9
12.5°	2683.1	2798.9	2854.9	2889.3	2890.6	2868.9	2756.9	2590.2	2516.4	2498.6
15°	2776.0	2825.7	2826.9	2847.3	2882.9	2931.3	2879.1	2731.5	2652.6	2625.8
17.5°	2834.6	2779.8	2723.8	2728.9	2787.5	2916.0	2969.5	2856.2	2772.2	2742.9
20°	2876.6	2703.5	2599.1	2600.4	2660.2	2854.9	3031.9	2977.1	2890.6	2863.9
22.5°	2903.3	2636.0	2487.1	2483.3	2546.9	2782.4	3089.1	3121.0	3035.7	3005.1
25°	2958.0	2604.2	2419.6	2441.3	2497.3	2759.5	3166.8	3311.9	3233.0	3192.2
27.5°	3056.0	2636.0	2413.3	2462.9	2526.6	2826.9	3301.7	3566.5	3485.0	3439.2
30°	3225.3	2755.7	2511.3	2580.0	2656.4	3003.9	3528.3	3921.6	3804.5	3761.2
32.5°	3497.7	3003.9	2814.2	2961.9	3035.7	3294.1	3868.1	4320.0	4224.5	4137.9
35°	3873.2	3570.3	3548.6	3892.3	3874.5	3843.9	4285.6	4808.7	4664.9	4580.9
37.5°	4390.0	4481.6	4642.0	4983.1	4971.6	4738.7	4834.2	5270.8	5196.9	5088.7
40°	5035.3	5230.0	5502.4	5991.2	5838.4	5545.7	5507.5	5744.3	5684.4	5557.1
42.5°	5415.9	5751.9	6271.2	6710.3	6588.1	6076.5	6033.2	6376.8	6245.7	6107.0
45°	5592.8	6177.0	7195.3	7789.7	7419.3	6429.0	6412.5	7201.6	7127.8	6942.0
47.5°	5674.2	6606.0	8277.2	9177.1	8484.6	6738.3	6678.5	8398.1	8301.4	8082.4
50°	5764.6	7197.8	9580.5	10784.6	9771.5	7088.4	7131.6	9513.1	9472.4	9214.0
52.5°	5963.2	7824.0	11185.6	12622.6	11331.9	7636.9	7909.3	10564.4	10289.5	9991.7
55°	6261.0	8506.3	12855.5	14500.0	12924.3	8373.9	8750.7	11123.2	10351.9	10022.2
57.5°	5931.4	8676.8	13844.5	15811.0	13630.7	8376.5	8039.2	10154.6	9104.5	8785.0
60°	4706.9	8072.2	13463.9	15527.2	13028.6	7438.4	6155.4	7928.4	6897.4	6683.6
62.5°	3182.1	6770.1	11852.5	13131.7	11151.2	5851.2	4000.5	5156.2	4270.3	4093.4
65°	1743.8	5050.6	9576.7	9934.4	8727.8	4087.0	2058.2	2237.6	1704.3	1625.4
67.5°	481.1	3515.5	7046.4	6590.7	6123.6	2661.5	532.0	399.7	285.1	282.6
70°	120.9	2325.4	4222.0	4351.8	3754.8	1704.3	101.8	48.4	38.2	36.9
72.5°	50.9	1000.4	2003.4	2302.5	1922.0	789.2	36.9	14.0	11.5	8.9
75°	6.4	80.2	170.6	258.4	176.9	85.3	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)