

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: P636833

Luminaire Tested: GWS-SA4B-750-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636833
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-SA4B-750-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7898.9 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

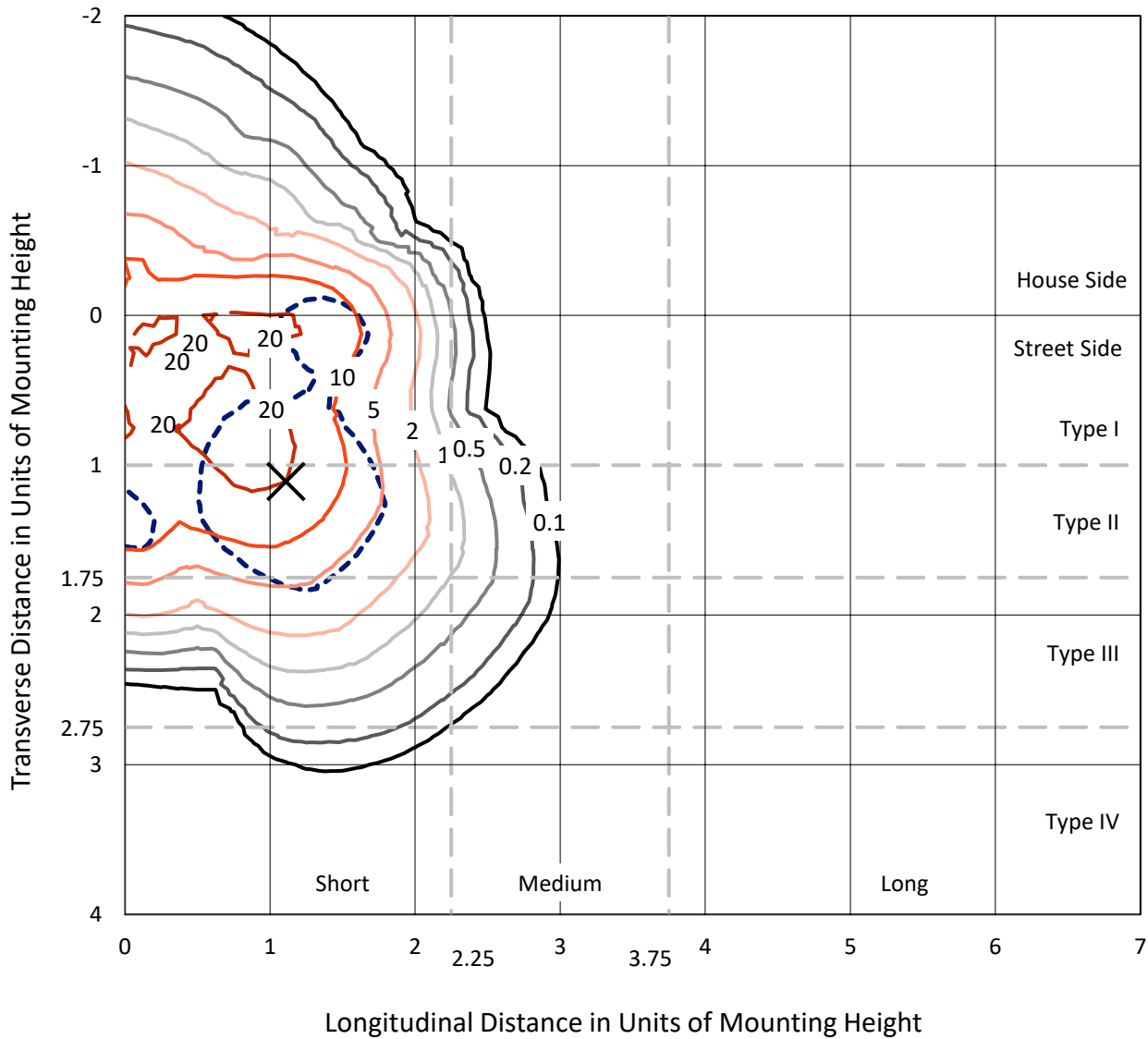
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

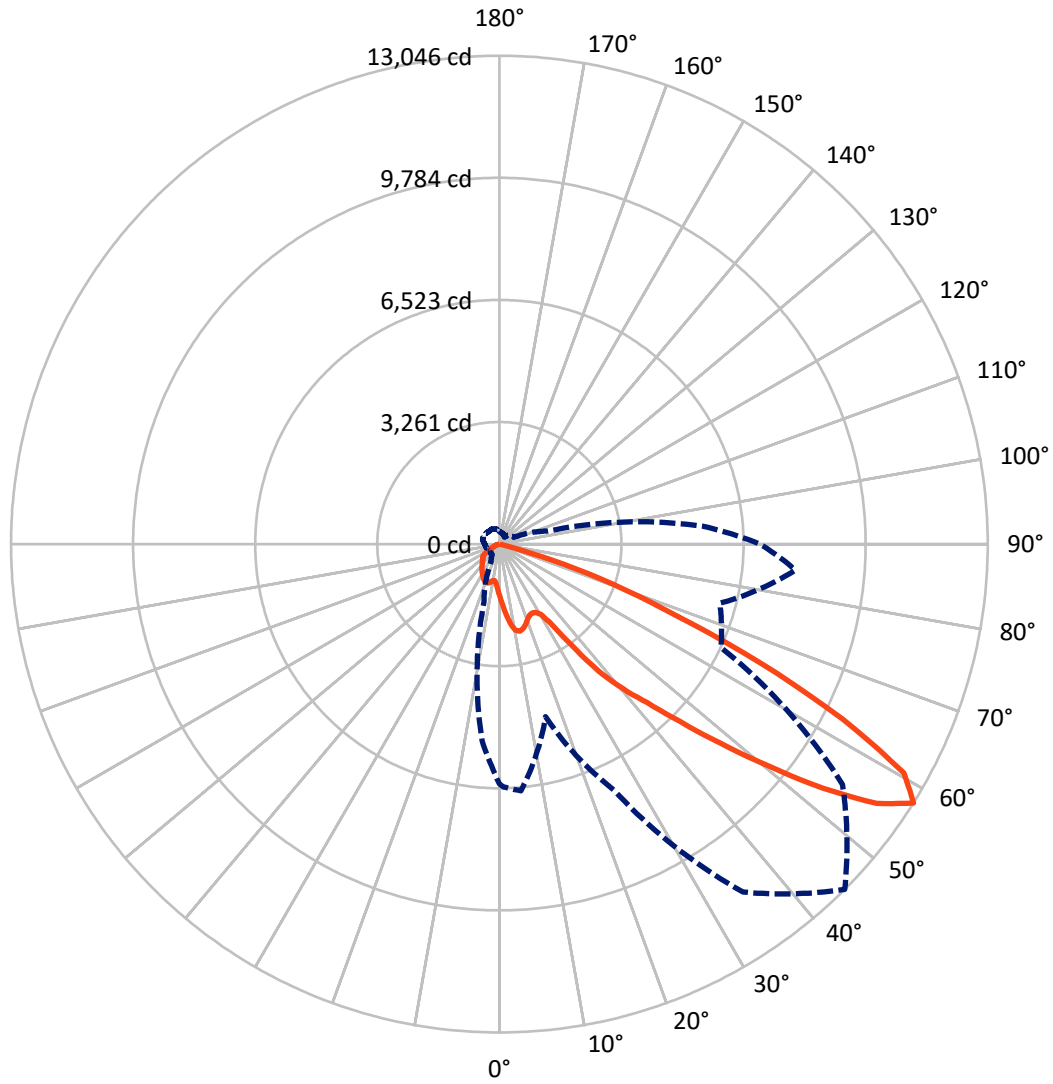
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.7 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
House Side	Lumens	1768.8	0.0	1768.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6130.1	0.0	6130.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	7898.9	0.0	7898.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.7
10°-20°	441.8	5.6
20°-30°	717.7	9.1
30°-40°	1109.0	14.0
40°-50°	1778.2	22.5
50°-60°	2430.4	30.8
60°-70°	1177.1	14.9
70°-80°	107.8	1.4
80°-90°	0.3	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°	7898.9	100.0
0°-180°	7898.9	100.0

Coefficient of Utilization



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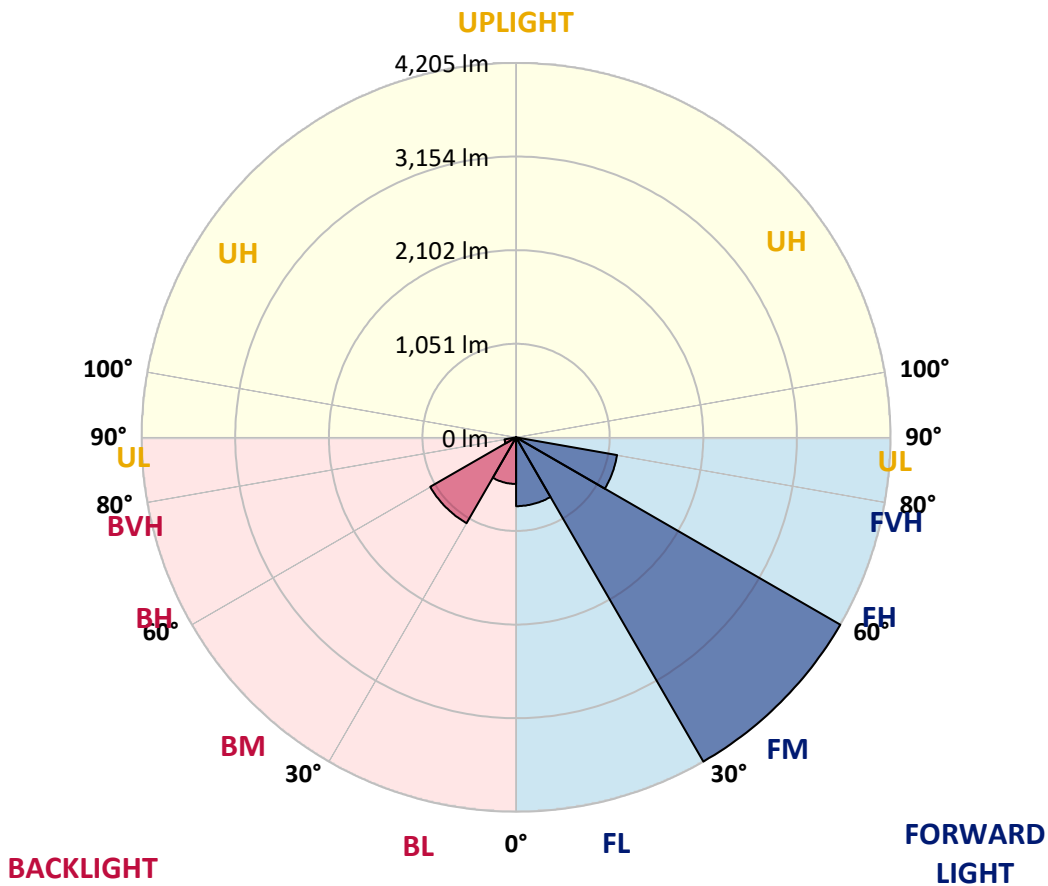
CATALOG NUMBER: GWS-SA4B-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.8	9.8			
FM (30°-60°)	4204.8	53.2			
FH (60°-80°)	1152.3	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	523.4	6.6	B2/1000		
BM (30°-60°)	1112.8	14.1	B2/2500		
BH (60°-80°)	132.6	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°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1504.0	1513.6	1529.5	1563.4	1592.1	1611.2	1619.7	1617.6	1605.9	1597.4	1580.4
5°	1665.3	1665.3	1696.1	1773.6	1833.0	1870.2	1889.3	1877.6	1854.3	1817.1	1759.8
7.5°	1806.5	1811.8	1863.8	1974.2	2064.4	2117.5	2148.3	2141.9	2100.5	2029.4	1914.8
10°	1916.9	1923.3	1992.3	2127.1	2233.2	2287.3	2333.0	2337.2	2291.6	2197.1	2065.5
12.5°	2024.1	2030.5	2102.6	2232.1	2325.5	2347.8	2388.2	2404.1	2392.4	2325.5	2188.6
15°	2139.8	2154.7	2216.2	2312.8	2352.1	2325.5	2352.1	2380.7	2420.0	2413.6	2290.5
17.5°	2253.4	2264.0	2326.6	2360.6	2317.0	2248.1	2260.8	2294.8	2383.9	2470.9	2391.3
20°	2358.4	2373.3	2425.3	2380.7	2249.1	2141.9	2143.0	2187.6	2323.4	2506.0	2494.3
22.5°	2468.8	2491.1	2528.3	2403.0	2186.5	2058.1	2063.4	2103.7	2275.7	2538.9	2611.1
25°	2613.2	2634.4	2658.8	2458.2	2166.3	2016.7	2036.8	2074.0	2275.7	2595.1	2755.4
27.5°	2808.5	2823.3	2824.4	2561.2	2201.4	2023.0	2065.5	2107.9	2343.6	2707.6	2948.6
30°	3053.7	3077.0	3046.2	2721.4	2310.7	2107.9	2170.6	2223.6	2490.1	2897.6	3233.0
32.5°	3351.9	3384.8	3343.4	2959.2	2538.9	2400.9	2514.5	2545.2	2723.6	3172.5	3555.7
35°	3702.2	3729.8	3685.2	3288.2	3071.7	3097.2	3303.1	3263.8	3192.7	3511.1	3932.5
37.5°	4086.4	4111.9	4025.9	3787.1	3859.3	3969.7	4298.7	4163.9	3934.6	3947.4	4341.1
40°	4438.8	4466.4	4331.6	4329.5	4478.1	4679.7	5076.7	4890.9	4578.9	4518.4	4724.3
42.5°	4803.9	4823.0	4701.0	4618.2	4955.7	5370.7	5791.0	5540.5	5005.6	4939.8	5204.1
45°	5325.1	5365.4	5147.8	4760.4	5385.6	6165.7	6751.6	6262.3	5296.4	5243.3	5938.6
47.5°	6091.4	6121.1	5677.5	4849.6	5785.7	7156.0	7952.0	7198.4	5552.2	5431.2	6942.6
50°	6725.1	6745.2	6164.6	4947.2	6211.3	8223.8	9320.2	8308.7	5839.8	5742.2	7879.9
52.5°	7192.1	7268.5	6804.7	5147.8	6770.7	9479.4	10834.8	9623.8	6288.8	6343.0	8656.8
55°	7288.7	7392.7	7242.0	5270.9	7263.2	10758.4	12233.7	10800.8	6736.7	6798.3	8917.9
57.5°	6405.6	6488.4	6613.6	4774.2	7251.5	11344.3	13045.7	11191.4	6532.9	6096.7	7940.4
60°	4798.6	4855.9	5083.1	3649.1	6668.8	10826.3	12413.1	10527.0	5712.5	4652.1	6050.0
62.5°	2845.6	2871.1	3158.7	2363.7	5535.2	9323.4	10294.6	9083.5	4514.2	3129.0	3705.4
65°	1092.2	1081.6	1301.3	1166.5	4070.5	7426.6	7657.0	6924.6	3097.2	1434.0	1412.7
67.5°	168.8	161.3	217.6	345.0	2935.8	5146.7	5052.3	4990.7	1940.2	334.3	291.9
70°	38.2	38.2	46.7	101.9	1793.8	3023.9	3236.2	3085.5	1241.8	71.1	38.2
72.5°	18.0	18.0	22.3	43.5	649.6	1246.1	1452.0	1429.7	403.3	23.4	13.8
75°	6.4	7.4	7.4	9.6	39.3	64.7	148.6	106.1	25.5	0.0	0.0
77.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	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°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1543.3	1535.9	1508.3	1471.1	1435.0	1403.2	1370.3	1331.0	1302.3	1269.4	1258.8
5°	1715.2	1668.5	1593.2	1514.6	1442.4	1380.9	1321.4	1257.8	1211.1	1164.4	1148.4
7.5°	1860.6	1791.6	1669.6	1551.8	1453.1	1366.0	1280.1	1193.0	1125.1	1069.9	1052.9
10°	1991.2	1911.6	1748.1	1602.7	1478.5	1377.7	1273.7	1164.4	1076.3	1010.5	994.5
12.5°	2103.7	2011.4	1815.0	1640.9	1489.1	1373.5	1272.6	1185.6	1106.0	1030.6	1010.5
15°	2198.2	2096.3	1871.3	1666.4	1473.2	1320.4	1232.3	1218.5	1212.1	1129.3	1090.1
17.5°	2290.5	2175.9	1916.9	1678.1	1428.6	1227.0	1163.3	1225.9	1292.8	1238.7	1188.8
20°	2387.1	2256.5	1963.6	1680.2	1354.4	1121.9	1111.3	1210.0	1294.9	1277.9	1231.2
22.5°	2500.7	2357.4	2022.0	1679.1	1260.9	1032.7	1073.1	1179.2	1248.2	1247.1	1210.0
25°	2665.2	2484.7	2100.5	1685.5	1159.1	963.8	1030.6	1127.2	1183.5	1181.3	1150.6
27.5°	2841.4	2636.5	2202.4	1701.4	1072.0	923.4	980.7	1056.1	1104.9	1102.8	1076.3
30°	3088.7	2811.7	2300.1	1702.5	1009.4	902.2	925.5	977.6	1024.3	1018.9	998.8
32.5°	3389.1	3009.1	2381.8	1642.0	970.1	882.0	868.2	894.8	930.9	923.4	918.1
35°	3752.1	3243.7	2451.8	1509.3	909.6	841.7	804.5	809.9	835.3	839.6	837.4
37.5°	4166.0	3522.8	2538.9	1334.2	827.9	783.3	733.4	729.2	744.0	757.8	768.5
40°	4574.7	3837.0	2656.7	1156.9	753.6	709.0	661.3	650.6	657.0	681.4	703.7
42.5°	5034.2	4201.0	2784.1	1005.1	702.6	627.3	581.6	561.5	579.5	618.8	645.3
45°	5696.6	4711.6	2908.2	884.1	681.4	555.1	493.6	491.4	511.6	562.5	592.3
47.5°	6626.3	5371.8	2990.0	789.7	680.4	498.9	425.6	438.4	461.7	511.6	545.6
50°	7532.8	6198.6	2899.8	717.5	658.1	461.7	374.7	400.1	423.5	467.0	502.0
52.5°	8079.4	6643.3	2548.4	649.6	589.1	444.7	324.8	369.4	373.6	412.9	450.0
55°	8022.1	6355.7	1951.9	544.5	487.2	420.3	272.8	333.3	335.4	365.1	397.0
57.5°	6962.8	5456.7	1340.6	441.5	366.2	347.1	225.0	281.3	301.4	319.5	342.8
60°	5189.2	3981.3	597.6	358.8	232.4	234.6	192.1	212.3	243.1	264.3	284.5
62.5°	3057.9	2290.5	243.1	215.5	128.4	147.5	155.0	155.0	174.1	190.0	202.7
65°	1155.9	801.4	98.7	108.3	66.9	69.0	91.3	112.5	127.4	141.2	158.1
67.5°	202.7	140.1	50.9	40.3	39.3	35.0	46.7	73.2	81.7	92.3	99.8
70°	34.0	28.7	21.2	20.2	18.0	19.1	30.8	52.0	57.3	60.5	63.7
72.5°	9.6	8.5	6.4	5.3	4.2	5.3	19.1	40.3	42.5	44.6	47.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	28.7	30.8	31.8	35.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	8.5	10.6	8.5
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°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1252.5	1231.2	1219.6	1213.2	1213.2	1204.7	1195.1	1192.0	1205.8	1205.8	1229.1
5°	1128.3	1111.3	1092.2	1080.5	1062.5	1065.6	1055.0	1054.0	1067.8	1074.1	1098.6
7.5°	1042.3	1021.1	1009.4	1002.0	992.4	988.2	978.6	975.4	982.9	993.5	1016.8
10°	985.0	981.8	980.7	986.0	986.0	980.7	972.2	966.9	969.1	989.2	1015.8
12.5°	999.8	1006.2	1008.3	1016.8	1021.1	1016.8	1010.5	1012.6	1026.4	1063.5	1102.8
15°	1064.6	1059.3	1057.2	1061.4	1064.6	1060.3	1058.2	1074.1	1121.9	1175.0	1219.6
17.5°	1133.6	1099.6	1084.8	1084.8	1086.9	1084.8	1086.9	1117.7	1195.1	1248.2	1281.1
20°	1168.6	1106.0	1082.6	1077.3	1081.6	1082.6	1090.1	1125.1	1210.0	1247.1	1254.6
22.5°	1158.0	1079.4	1052.9	1048.7	1052.9	1057.2	1064.6	1094.3	1173.9	1193.0	1189.8
25°	1104.9	1027.4	1006.2	1006.2	1015.8	1014.7	1017.9	1039.1	1104.9	1116.6	1111.3
27.5°	1038.1	964.8	946.8	957.4	965.9	963.8	964.8	982.9	1031.7	1034.9	1029.6
30°	970.1	906.4	889.5	902.2	913.9	911.7	912.8	930.9	961.6	958.4	951.0
32.5°	901.1	854.4	841.7	849.1	867.2	865.0	869.3	888.4	900.1	886.3	877.8
35°	837.4	813.0	803.5	807.7	821.5	824.7	832.1	844.9	844.9	827.9	813.0
37.5°	778.0	774.8	768.5	763.1	775.9	785.4	796.1	810.9	789.7	765.3	751.5
40°	722.8	736.6	728.1	714.3	721.8	735.6	756.8	768.5	743.0	718.6	695.2
42.5°	671.9	695.2	692.0	675.1	681.4	694.2	718.6	728.1	698.4	670.8	648.5
45°	623.0	655.9	658.1	636.8	643.2	655.9	684.6	687.8	649.6	619.9	603.9
47.5°	580.6	616.7	617.7	601.8	603.9	622.0	648.5	649.6	606.1	578.5	558.3
50°	540.3	581.6	584.8	571.0	573.2	594.4	616.7	612.4	565.7	537.1	519.0
52.5°	491.4	547.7	555.1	548.7	557.2	574.2	588.0	573.2	519.0	490.4	474.4
55°	438.4	511.6	527.5	523.3	532.8	546.6	549.8	540.3	472.3	443.7	428.8
57.5°	376.8	421.4	449.0	440.5	447.9	461.7	471.3	463.8	412.9	390.6	377.9
60°	312.1	341.8	348.1	334.3	328.0	352.4	374.7	365.1	321.6	307.8	292.9
62.5°	228.2	262.2	266.4	248.4	240.9	267.5	286.6	277.0	229.3	214.4	202.7
65°	182.6	214.4	222.9	205.9	201.7	221.8	233.5	210.2	176.2	160.3	147.5
67.5°	119.9	145.4	167.7	166.6	158.1	164.5	156.0	136.9	112.5	104.0	95.5
70°	74.3	89.2	103.0	108.3	107.2	105.1	93.4	79.6	72.2	69.0	64.7
72.5°	57.3	72.2	82.8	86.0	87.0	83.9	74.3	61.6	54.1	49.9	46.7
75°	42.5	54.1	62.6	66.9	69.0	66.9	57.3	48.8	41.4	38.2	35.0
77.5°	14.9	18.0	22.3	24.4	23.4	22.3	20.2	20.2	15.9	14.9	12.7
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: P636833
 CATALOG NUMBER: GWS-SA4B-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1255.6	1274.7	1309.8	1341.6	1375.6	1410.6	1448.8	1488.1	1506.1	1504.0
5°	1135.7	1177.1	1234.4	1297.0	1367.1	1442.4	1526.3	1612.3	1649.4	1665.3
7.5°	1060.3	1118.7	1194.1	1273.7	1366.0	1473.2	1599.5	1734.3	1788.5	1806.5
10°	1069.9	1137.8	1200.4	1277.9	1376.6	1515.7	1672.8	1833.0	1896.7	1916.9
12.5°	1147.4	1162.2	1179.2	1242.9	1367.1	1547.5	1739.6	1930.7	2003.9	2024.1
15°	1217.4	1148.4	1116.6	1175.0	1333.1	1569.8	1807.6	2035.8	2116.4	2139.8
17.5°	1220.6	1116.6	1045.5	1091.1	1277.9	1579.4	1874.4	2143.0	2231.1	2253.4
20°	1181.3	1081.6	990.3	991.4	1202.6	1577.2	1929.6	2239.6	2338.3	2358.4
22.5°	1124.0	1040.2	945.7	912.8	1121.9	1573.0	1990.1	2342.5	2449.7	2468.8
25°	1060.3	987.1	903.3	853.4	1041.2	1577.2	2075.0	2477.3	2595.1	2613.2
27.5°	991.4	928.7	870.4	830.0	973.3	1593.2	2176.9	2649.3	2789.4	2808.5
30°	919.2	872.5	849.1	824.7	930.9	1597.4	2287.3	2849.9	3027.1	3053.7
32.5°	848.1	822.6	823.6	827.9	890.5	1567.7	2388.2	3072.8	3309.5	3351.9
35°	782.3	774.8	796.1	817.3	832.1	1491.3	2476.3	3336.0	3658.7	3702.2
37.5°	726.0	732.4	758.9	780.1	768.5	1383.0	2593.0	3665.0	4049.3	4086.4
40°	671.9	687.8	718.6	728.1	719.6	1256.7	2733.1	3982.4	4387.8	4438.8
42.5°	622.0	633.7	677.2	679.3	705.8	1128.3	2867.9	4324.2	4777.4	4803.9
45°	581.6	579.5	624.1	637.9	723.9	986.0	2999.5	4779.5	5286.9	5325.1
47.5°	542.4	540.3	550.9	613.5	731.3	854.4	3130.1	5446.1	6025.6	6091.4
50°	505.2	508.4	475.5	601.8	691.0	753.6	3189.5	6062.7	6697.5	6725.1
52.5°	472.3	460.6	403.3	563.6	605.0	658.1	3020.8	6343.0	7113.5	7192.1
55°	425.6	360.9	332.2	457.5	477.6	574.2	2474.1	6180.6	7149.6	7288.7
57.5°	364.1	283.4	282.3	337.5	337.5	532.8	1584.7	5280.5	6161.5	6405.6
60°	280.2	219.7	233.5	234.6	216.5	388.5	889.5	3825.3	4555.5	4798.6
62.5°	199.5	167.7	176.2	140.1	124.2	194.2	426.7	2202.4	2811.7	2845.6
65°	133.7	113.6	92.3	77.5	76.4	82.8	176.2	796.1	968.0	1092.2
67.5°	88.1	69.0	48.8	48.8	55.2	55.2	66.9	131.6	184.7	168.8
70°	57.3	47.8	30.8	29.7	36.1	36.1	34.0	36.1	38.2	38.2
72.5°	42.5	36.1	18.0	15.9	20.2	21.2	19.1	18.0	18.0	18.0
75°	31.8	25.5	10.6	7.4	9.6	12.7	10.6	7.4	7.4	6.4
77.5°	12.7	9.6	4.2	3.2	5.3	7.4	6.4	3.2	2.1	2.1
80°	1.1	2.1	2.1	2.1	3.2	4.2	5.3	2.1	1.1	1.1
82.5°	0.0	1.1	1.1	1.1	2.1	3.2	4.2	2.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	2.1	3.2	2.1	1.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.1	3.2	2.1	1.1	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)