

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: P637324

Luminaire Tested: GWS-SA4C-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637324
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-SA4C-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10647.4 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

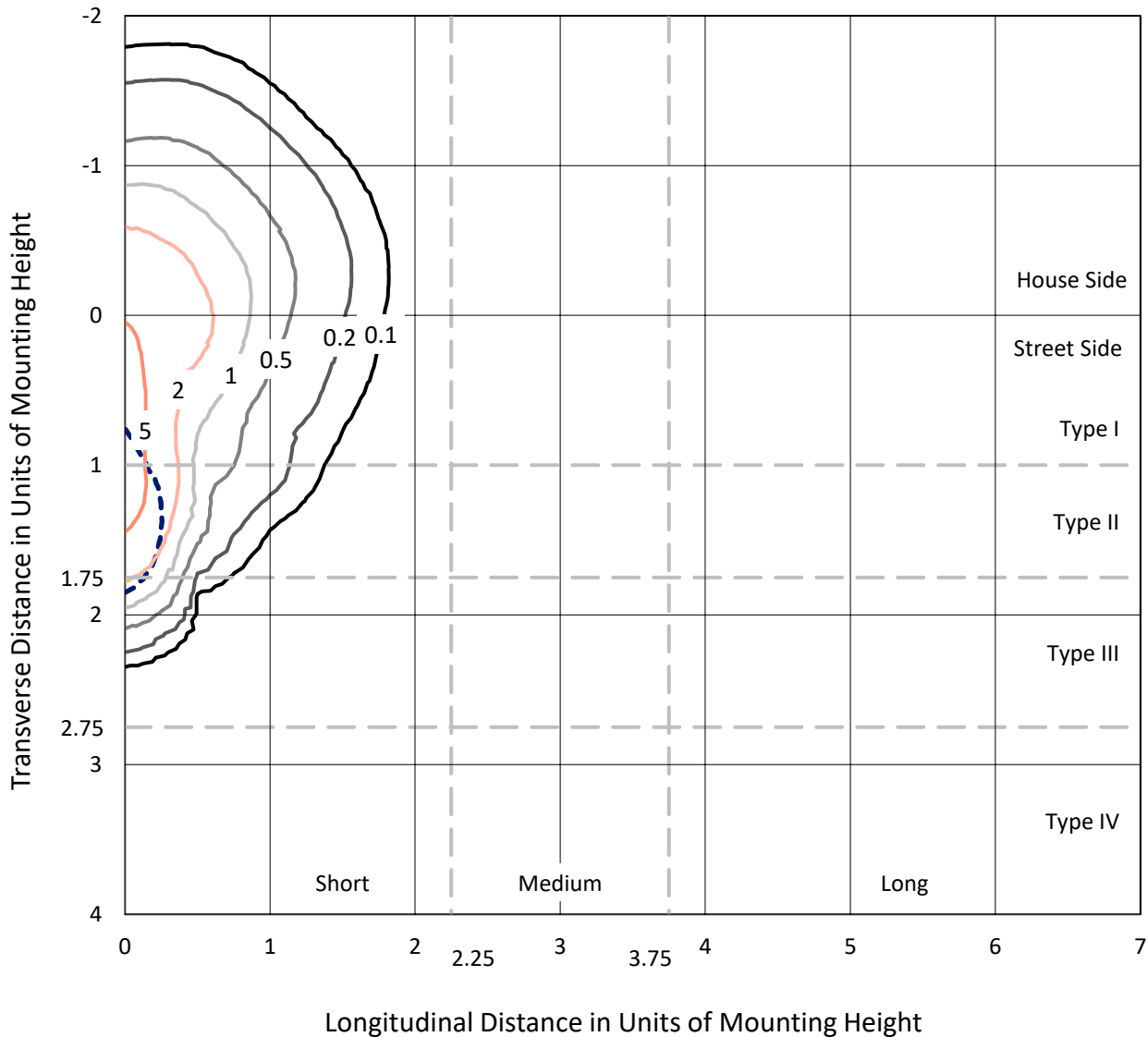
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

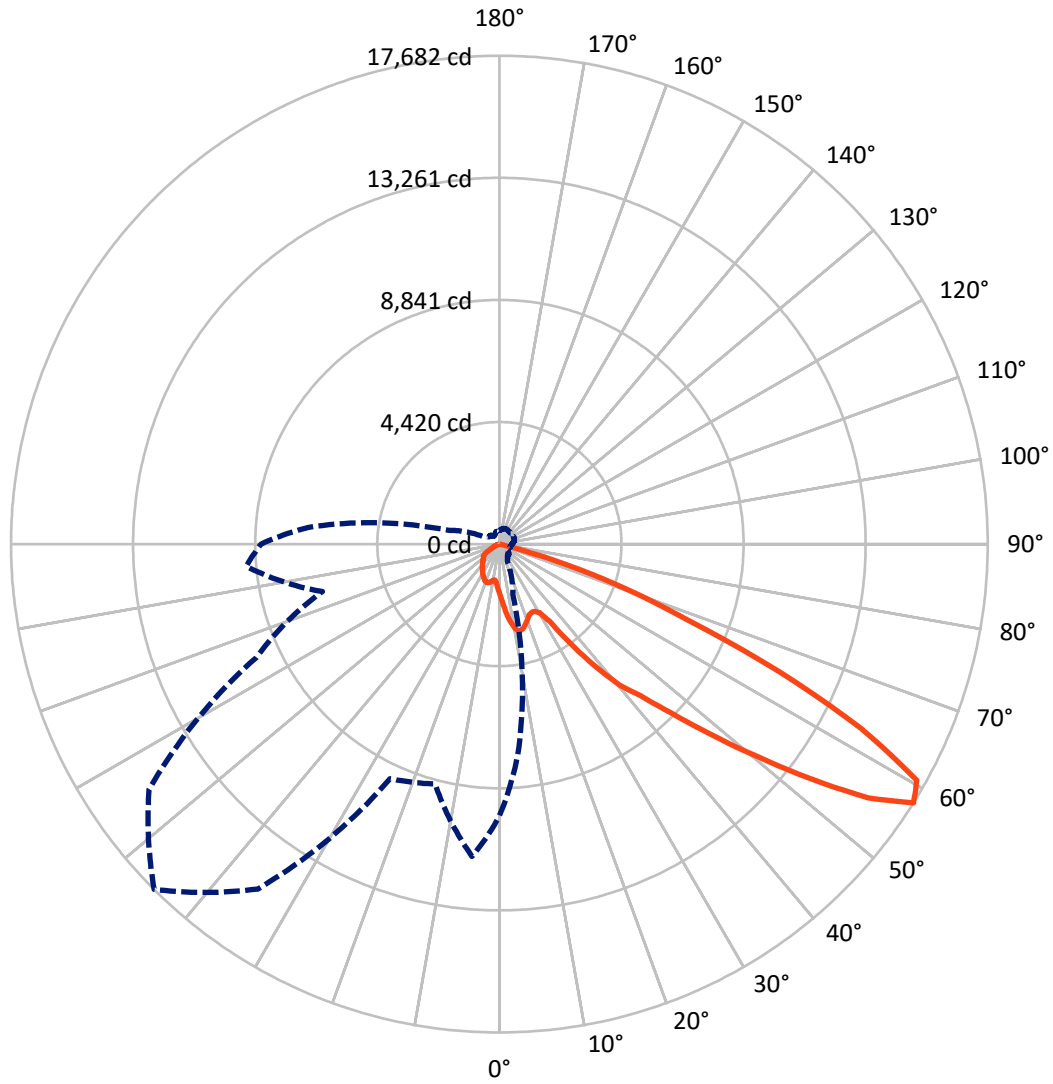
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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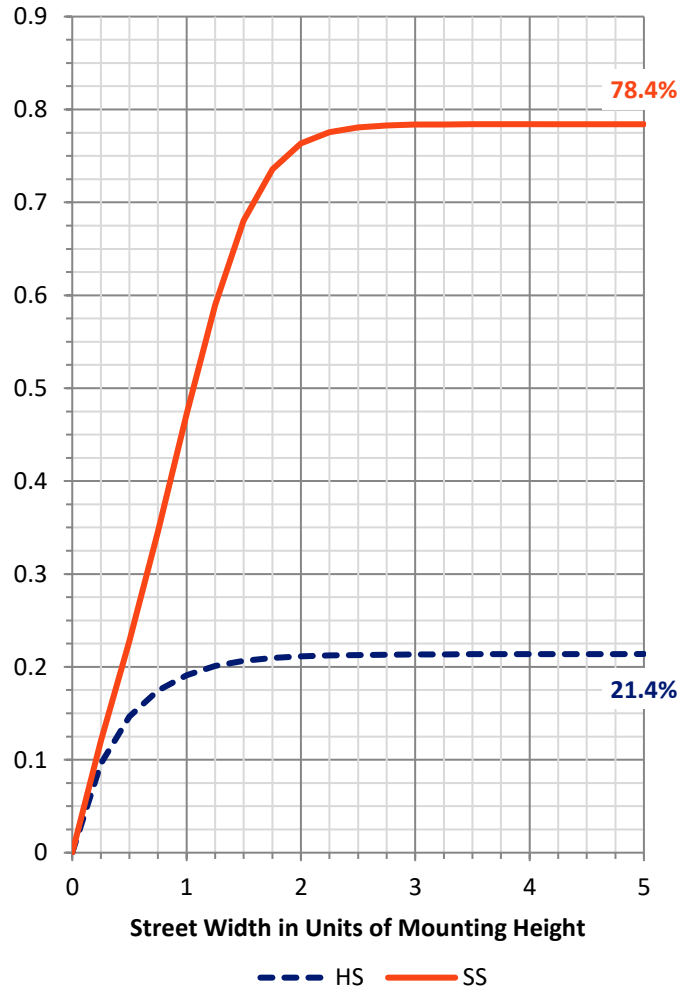
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2293.8	0.0	2293.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8353.6	0.0	8353.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	10647.4	0.0	10647.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.7
10°-20°	588.4	5.5
20°-30°	954.9	9.0
30°-40°	1465.5	13.8
40°-50°	2340.5	22.0
50°-60°	3277.2	30.8
60°-70°	1680.3	15.8
70°-80°	161.8	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°	10647.4	100.0
0°-180°	10647.4	100.0

Coefficient of Utilization



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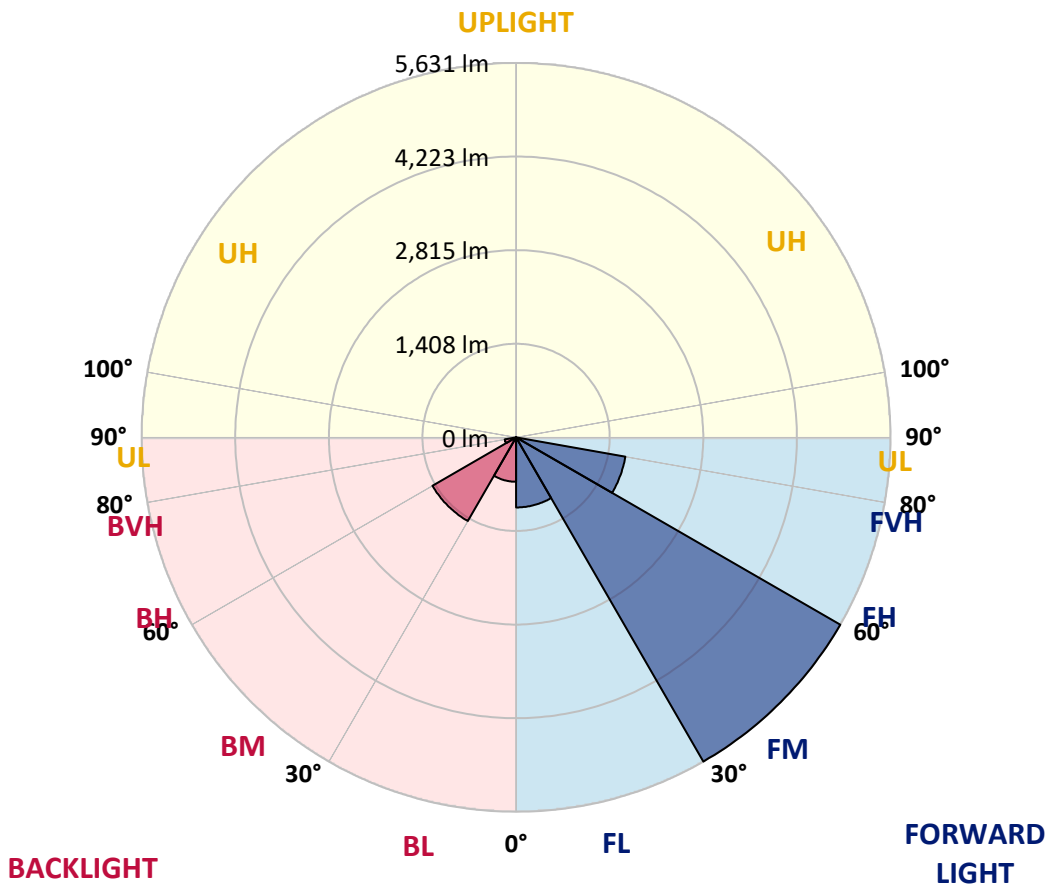
CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.2	9.9			
FM (30°-60°)	5630.6	52.9			
FH (60°-80°)	1668.8	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	667.9	6.3	B2/1000		
BM (30°-60°)	1452.6	13.6	B2/2500		
BH (60°-80°)	173.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	2009.9	2005.6	1991.3	1943.0	1913.1	1866.1	1831.9	1787.8	1739.4	1709.5	1679.6
5°	2223.4	2212.0	2173.5	2062.5	1977.1	1884.6	1810.6	1729.4	1642.6	1585.7	1533.0
7.5°	2428.3	2411.3	2360.0	2172.1	2042.6	1910.2	1804.9	1686.7	1564.3	1478.9	1413.4
10°	2629.0	2590.6	2509.5	2278.9	2103.8	1944.4	1820.5	1685.3	1541.6	1433.4	1360.8
12.5°	2794.1	2765.7	2654.7	2379.9	2155.0	1951.5	1799.2	1673.9	1577.1	1504.5	1437.6
15°	2936.5	2905.2	2799.8	2471.0	2199.2	1923.0	1709.5	1599.9	1615.6	1644.0	1587.1
17.5°	3067.4	3034.7	2920.8	2546.5	2216.2	1853.3	1584.3	1531.6	1618.4	1725.2	1703.8
20°	3202.7	3165.7	3026.2	2607.7	2210.6	1743.7	1457.6	1473.2	1595.6	1718.1	1729.4
22.5°	3360.7	3322.2	3160.0	2686.0	2206.3	1612.7	1348.0	1422.0	1552.9	1656.8	1676.8
25°	3569.9	3524.4	3346.4	2801.3	2217.7	1493.2	1269.7	1372.2	1480.3	1574.3	1585.7
27.5°	3846.0	3787.7	3561.4	2943.6	2241.9	1399.2	1235.5	1303.8	1387.8	1471.8	1481.8
30°	4206.2	4132.2	3807.6	3067.4	2230.5	1333.7	1212.7	1235.5	1285.3	1353.7	1355.1
32.5°	4627.5	4526.4	4083.8	3174.2	2132.3	1285.3	1181.4	1165.8	1177.2	1229.8	1239.8
35°	5122.8	4991.9	4388.4	3275.3	1952.9	1191.4	1124.5	1071.8	1067.6	1093.2	1117.4
37.5°	5690.8	5534.2	4772.7	3404.8	1740.8	1093.2	1040.5	987.8	965.1	977.9	1014.9
40°	6214.6	6040.9	5174.1	3561.4	1524.5	1004.9	942.3	888.2	861.2	865.4	911.0
42.5°	6829.5	6650.2	5665.2	3766.3	1345.1	945.1	839.8	784.3	748.7	768.6	821.3
45°	7763.3	7559.7	6381.1	3944.3	1202.8	930.9	750.1	671.8	654.8	688.9	751.6
47.5°	9038.6	8789.5	7364.7	4052.4	1081.8	943.7	687.5	580.8	585.0	623.5	686.1
50°	10304.0	10035.0	8502.0	3910.1	982.2	918.1	656.2	509.6	536.6	570.8	627.7
52.5°	11173.7	10823.6	9055.7	3498.7	891.1	821.3	653.3	442.7	493.9	505.3	553.7
55°	11207.9	10776.6	8772.5	2758.6	767.2	693.2	623.5	387.2	446.9	451.2	492.5
57.5°	9824.4	9434.3	7666.5	1894.6	681.8	508.2	496.8	338.8	367.2	402.8	428.4
60°	7474.3	7142.7	5733.5	868.3	518.1	323.1	340.2	291.8	274.7	327.4	353.0
62.5°	4577.7	4365.6	3439.0	384.3	330.2	172.2	206.4	232.0	206.4	226.3	247.7
65°	1817.7	1723.7	1305.3	163.7	135.2	86.8	93.9	135.2	145.2	159.4	179.3
67.5°	316.0	298.9	219.2	72.6	55.5	52.7	45.5	62.6	88.3	98.2	113.9
70°	41.3	39.9	35.6	29.9	28.5	25.6	19.9	39.9	59.8	62.6	72.6
72.5°	10.0	8.5	8.5	7.1	8.5	2.8	2.8	21.4	42.7	44.1	51.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	27.0	29.9	35.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1655.4	1627.0	1617.0	1602.8	1584.3	1589.9	1564.3	1555.8	1568.6	1585.7	1581.4
5°	1504.5	1473.2	1451.9	1419.1	1413.4	1400.6	1392.1	1380.7	1394.9	1414.9	1419.1
7.5°	1385.0	1357.9	1336.6	1326.6	1319.5	1313.8	1296.7	1288.2	1288.2	1296.7	1303.8
10°	1333.7	1313.8	1309.5	1312.4	1323.8	1322.3	1306.7	1295.3	1281.1	1273.9	1282.5
12.5°	1404.9	1372.2	1366.5	1367.9	1382.1	1380.7	1363.6	1349.4	1346.5	1349.4	1376.4
15°	1525.9	1476.1	1439.1	1431.9	1439.1	1436.2	1423.4	1414.9	1419.1	1460.4	1506.0
17.5°	1634.1	1557.2	1490.3	1464.7	1463.3	1459.0	1446.2	1443.3	1464.7	1541.6	1608.5
20°	1665.4	1589.9	1494.6	1461.8	1454.7	1450.5	1436.2	1440.5	1467.5	1560.1	1617.0
22.5°	1624.1	1551.5	1451.9	1419.1	1413.4	1412.0	1397.8	1403.5	1426.3	1507.4	1554.4
25°	1545.8	1484.6	1380.7	1352.2	1352.2	1349.4	1336.6	1339.4	1353.7	1424.8	1470.4
27.5°	1450.5	1392.1	1305.3	1276.8	1281.1	1285.3	1269.7	1265.4	1276.8	1343.7	1370.7
30°	1340.8	1299.6	1231.2	1205.6	1204.2	1221.3	1199.9	1194.2	1209.9	1262.6	1268.3
32.5°	1234.1	1214.2	1165.8	1145.8	1147.3	1150.1	1138.7	1138.7	1153.0	1181.4	1180.0
35°	1130.2	1117.4	1108.8	1094.6	1093.2	1087.5	1087.5	1090.3	1106.0	1116.0	1097.4
37.5°	1030.5	1043.4	1053.3	1039.1	1027.7	1027.7	1027.7	1040.5	1054.7	1050.5	1019.2
40°	942.3	969.3	1000.7	985.0	958.0	956.5	962.2	983.6	1004.9	979.3	950.8
42.5°	866.9	901.0	945.1	936.6	906.7	902.4	906.7	933.8	950.8	918.1	886.8
45°	792.8	835.5	888.2	888.2	855.5	851.2	852.6	888.2	898.2	859.7	819.9
47.5°	730.2	777.2	832.7	832.7	805.6	797.1	804.2	841.2	848.4	794.3	757.3
50°	670.4	721.7	782.9	778.6	760.1	753.0	765.8	805.6	797.1	737.3	698.9
52.5°	595.0	649.1	733.1	737.3	727.4	728.8	744.4	770.1	745.9	673.3	640.5
55°	526.7	582.2	666.2	688.9	688.9	687.5	694.6	714.6	694.6	607.8	567.9
57.5°	452.6	499.6	569.4	575.1	579.3	563.7	573.6	600.7	590.7	516.7	493.9
60°	371.5	411.4	451.2	455.5	437.0	404.2	422.8	454.1	461.2	405.7	380.0
62.5°	263.3	301.8	348.7	348.7	330.2	297.5	321.7	348.7	338.8	281.8	266.2
65°	196.4	232.0	267.6	283.3	267.6	244.8	263.3	283.3	267.6	220.6	197.9
67.5°	126.7	150.9	172.2	185.0	187.9	185.0	193.6	187.9	169.4	138.1	125.3
70°	76.9	89.7	101.1	112.4	121.0	125.3	129.5	116.7	98.2	81.1	76.9
72.5°	55.5	66.9	76.9	85.4	95.4	98.2	98.2	89.7	72.6	56.9	52.7
75°	38.4	48.4	56.9	62.6	71.2	74.0	74.0	66.9	54.1	41.3	37.0
77.5°	1.4	10.0	10.0	8.5	11.4	14.2	14.2	17.1	15.7	11.4	10.0
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1589.9	1641.2	1655.4	1708.1	1755.1	1802.0	1859.0	1893.1	1944.4	1980.0	1999.9
5°	1433.4	1476.1	1527.3	1605.6	1686.7	1776.4	1884.6	1978.5	2096.7	2183.5	2212.0
7.5°	1319.5	1375.0	1434.8	1533.0	1644.0	1763.6	1915.9	2069.6	2250.4	2368.6	2444.0
10°	1298.1	1355.1	1434.8	1531.6	1648.3	1785.0	1971.4	2170.7	2397.0	2540.8	2626.2
12.5°	1400.6	1461.8	1496.0	1540.1	1628.4	1780.7	2019.8	2273.2	2539.4	2695.9	2787.0
15°	1551.5	1605.6	1550.1	1494.6	1551.5	1735.1	2046.9	2358.6	2664.6	2845.4	2939.3
17.5°	1655.4	1659.7	1538.7	1420.6	1436.2	1652.6	2056.8	2444.0	2798.4	2987.7	3085.9
20°	1645.5	1611.3	1488.9	1357.9	1309.5	1545.8	2045.4	2519.4	2933.6	3131.5	3228.3
22.5°	1568.6	1528.7	1424.8	1296.7	1202.8	1419.1	2025.5	2587.8	3057.5	3282.4	3373.5
25°	1476.1	1433.4	1348.0	1235.5	1134.5	1296.7	2009.9	2681.7	3214.1	3478.8	3550.0
27.5°	1367.9	1330.9	1258.3	1177.2	1106.0	1204.2	2005.6	2805.5	3403.4	3717.9	3767.8
30°	1262.6	1228.4	1171.5	1124.5	1094.6	1150.1	1991.3	2937.9	3629.7	3992.7	4046.7
32.5°	1161.5	1127.3	1091.8	1084.6	1086.1	1130.2	1943.0	3068.9	3898.7	4391.2	4431.1
35°	1074.7	1034.8	1020.6	1037.7	1069.0	1096.0	1806.3	3177.0	4187.7	4825.4	4858.1
37.5°	992.1	952.3	950.8	992.1	1026.3	1043.4	1645.5	3283.8	4577.7	5266.6	5307.9
40°	916.7	876.8	891.1	940.9	967.9	976.5	1450.5	3446.1	4990.5	5732.1	5709.3
42.5°	852.6	811.3	819.9	883.9	908.1	930.9	1271.1	3581.3	5387.6	6173.3	6166.2
45°	790.0	758.7	753.0	822.7	844.1	935.2	1140.1	3685.2	5898.6	6735.6	6747.0
47.5°	728.8	704.6	706.0	735.9	788.6	956.5	1029.1	3753.5	6640.2	7626.6	7428.8
50°	673.3	654.8	670.4	636.3	753.0	929.5	933.8	3739.3	7468.6	8480.7	8083.5
52.5°	612.1	607.8	614.9	532.4	696.0	819.9	844.1	3550.0	7857.2	9064.3	8837.9
55°	549.4	548.0	491.1	425.6	582.2	654.8	723.1	2962.1	7844.4	9374.6	9649.3
57.5°	475.4	464.0	372.9	347.3	452.6	455.5	659.0	1940.1	6951.9	8631.5	9200.9
60°	360.1	351.6	273.3	281.8	316.0	291.8	525.2	966.5	5195.4	6724.2	7366.1
62.5°	249.1	237.7	203.5	217.8	203.5	166.5	321.7	478.3	3147.2	4246.0	4828.2
65°	182.2	169.4	139.5	119.6	95.4	95.4	122.4	183.6	1218.4	1804.9	2176.4
67.5°	112.4	106.8	82.6	59.8	58.4	62.6	64.1	91.1	196.4	313.1	382.9
70°	72.6	66.9	55.5	38.4	35.6	37.0	38.4	42.7	49.8	54.1	65.5
72.5°	49.8	47.0	39.9	21.4	17.1	18.5	19.9	19.9	24.2	22.8	27.0
75°	35.6	32.7	28.5	10.0	5.7	7.1	8.5	7.1	8.5	5.7	7.1
77.5°	10.0	10.0	7.1	1.4	0.0	1.4	2.8	2.8	1.4	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	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: P637324

CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	2051.1	2083.9	2096.7	2078.2	2093.8	2068.2	2058.2	2019.8	2017.0	2009.9
5°	2327.3	2401.3	2445.4	2472.5	2441.1	2407.0	2355.7	2267.5	2240.4	2223.4
7.5°	2599.1	2714.4	2789.9	2825.5	2816.9	2747.2	2654.7	2506.6	2454.0	2428.3
10°	2835.4	2976.3	3067.4	3111.6	3093.1	3031.9	2899.5	2714.4	2644.7	2629.0
12.5°	3000.5	3130.1	3192.7	3231.1	3232.6	3208.4	3083.1	2896.6	2814.1	2794.1
15°	3104.5	3160.0	3161.4	3184.2	3224.0	3278.1	3219.7	3054.6	2966.4	2936.5
17.5°	3169.9	3108.7	3046.1	3051.8	3117.3	3261.0	3320.8	3194.1	3100.2	3067.4
20°	3216.9	3023.3	2906.6	2908.0	2974.9	3192.7	3390.6	3329.4	3232.6	3202.7
22.5°	3246.8	2947.9	2781.3	2777.1	2848.2	3111.6	3454.6	3490.2	3394.8	3360.7
25°	3308.0	2912.3	2705.9	2730.1	2792.7	3085.9	3541.4	3703.7	3615.5	3569.9
27.5°	3417.6	2947.9	2698.8	2754.3	2825.5	3161.4	3692.3	3988.4	3897.3	3846.0
30°	3606.9	3081.7	2808.4	2885.2	2970.7	3359.2	3945.7	4385.5	4254.6	4206.2
32.5°	3911.5	3359.2	3147.2	3312.3	3394.8	3683.8	4325.7	4831.0	4724.3	4627.5
35°	4331.4	3992.7	3968.5	4352.8	4332.9	4298.7	4792.6	5377.6	5216.8	5122.8
37.5°	4909.3	5011.8	5191.2	5572.6	5559.8	5299.3	5406.1	5894.3	5811.8	5690.8
40°	5631.0	5848.8	6153.4	6700.0	6529.2	6201.8	6159.1	6423.8	6356.9	6214.6
42.5°	6056.6	6432.4	7013.1	7504.2	7367.6	6795.3	6747.0	7131.3	6984.7	6829.5
45°	6254.5	6907.8	8046.5	8711.3	8297.0	7189.6	7171.1	8053.6	7971.1	7763.3
47.5°	6345.6	7387.5	9256.4	10262.8	9488.4	7535.5	7468.6	9391.6	9283.5	9038.6
50°	6446.6	8049.4	10714.0	12060.5	10927.5	7927.0	7975.4	10638.5	10593.0	10304.0
52.5°	6668.7	8749.7	12508.9	14115.9	12672.6	8540.4	8845.1	11814.3	11506.8	11173.7
55°	7001.7	9512.6	14376.4	16215.5	14453.3	9364.6	9785.9	12439.2	11576.6	11207.9
57.5°	6633.1	9703.4	15482.4	17681.6	15243.3	9367.4	8990.2	11355.9	10181.6	9824.4
60°	5263.8	9027.3	15056.8	17364.1	14570.0	8318.4	6883.6	8866.4	7713.4	7474.3
62.5°	3558.5	7571.1	13254.8	14685.3	12470.5	6543.4	4473.8	5766.2	4775.5	4577.7
65°	1950.1	5648.1	10709.7	11109.7	9760.3	4570.6	2301.7	2502.4	1905.9	1817.7
67.5°	538.0	3931.5	7880.0	7370.4	6848.0	2976.3	595.0	446.9	318.8	316.0
70°	135.2	2600.6	4721.4	4866.6	4199.1	1905.9	113.9	54.1	42.7	41.3
72.5°	56.9	1118.8	2240.4	2574.9	2149.3	882.5	41.3	15.7	12.8	10.0
75°	7.1	89.7	190.7	289.0	197.9	95.4	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)