

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: P637823

Luminaire Tested: GWS-SA4D-750-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637823
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-SA4D-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: 13364.1 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

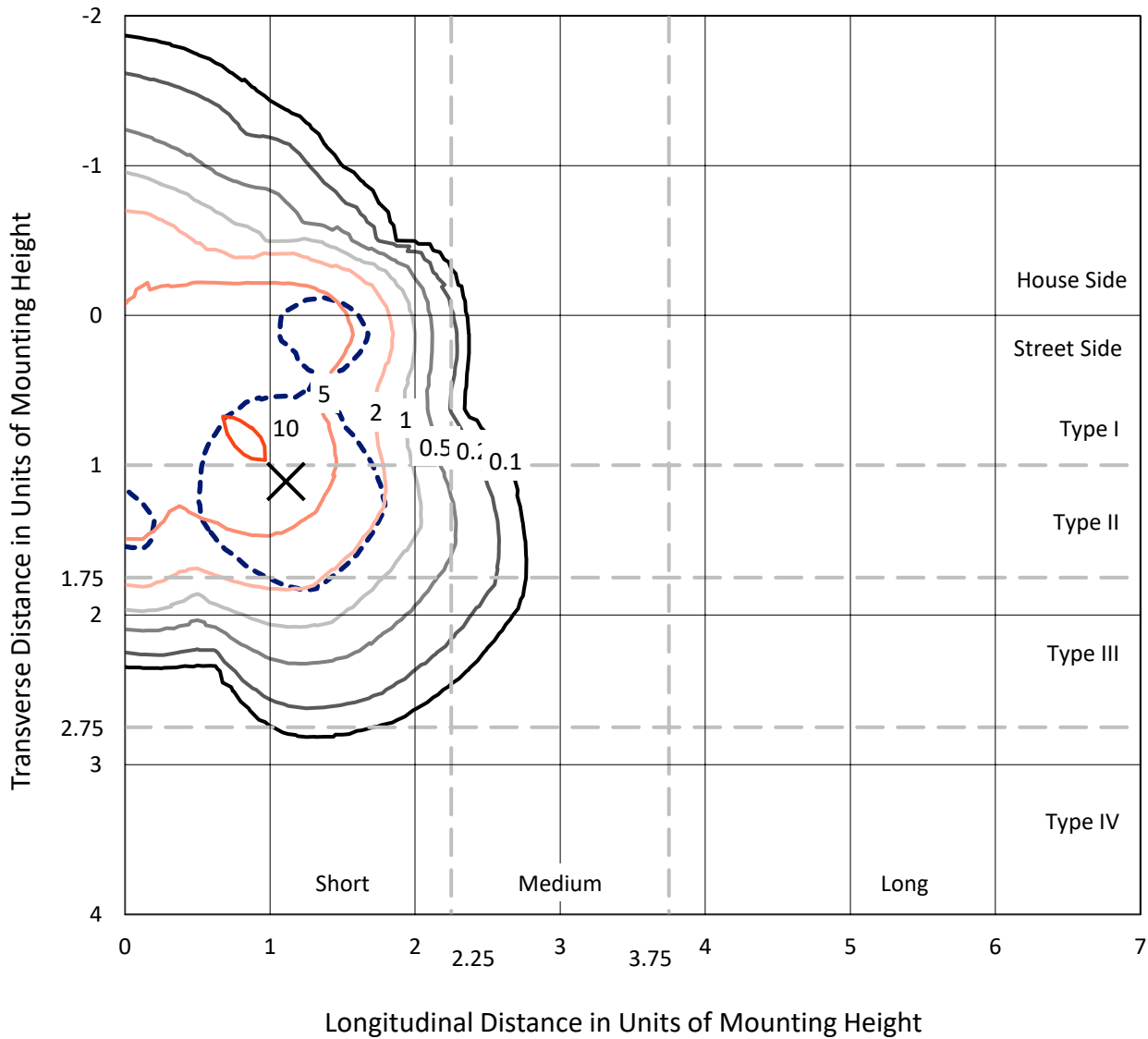
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637823
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

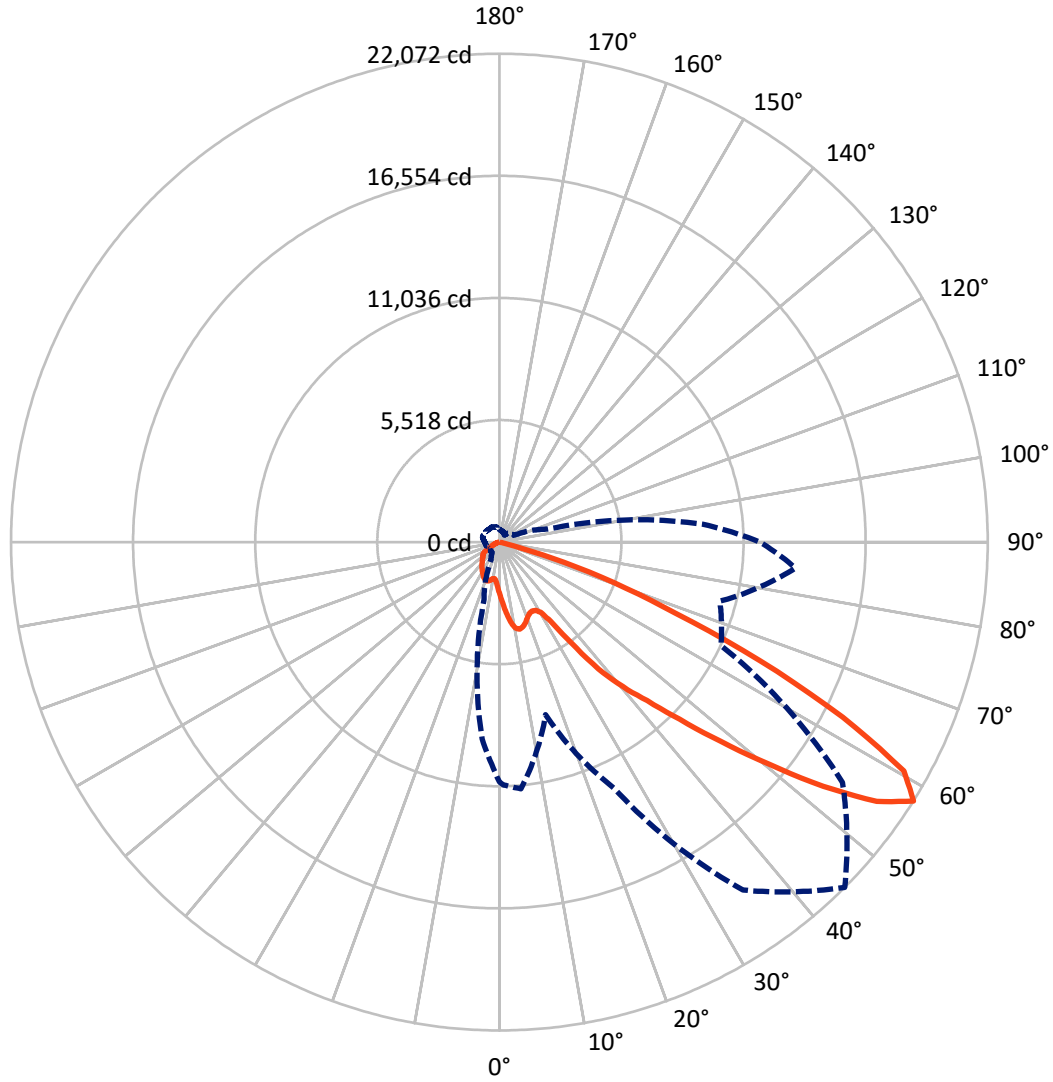
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

REPORT NUMBER: P637823
CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637823
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2992.6	0.0	2992.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	10371.5	0.0	10371.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	13364.1	0.0	13364.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.7
10°-20°	747.5	5.6
20°-30°	1214.3	9.1
30°-40°	1876.3	14.0
40°-50°	3008.6	22.5
50°-60°	4111.9	30.8
60°-70°	1991.5	14.9
70°-80°	182.4	1.4
80°-90°	0.5	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°	13364.1	100.0
0°-180°	13364.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637823

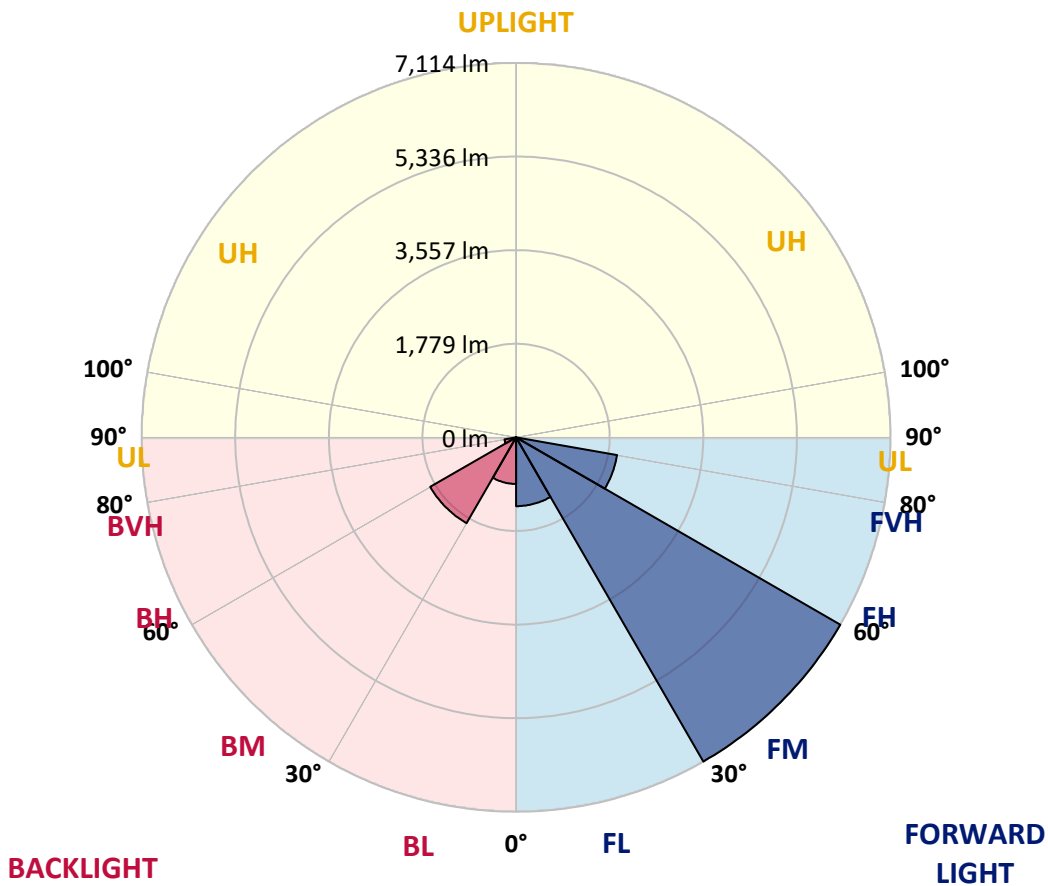
CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.4	9.8			
FM (30°-60°)	7114.0	53.2			
FH (60°-80°)	1949.6	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	885.5	6.6	B2/1000		
BM (30°-60°)	1882.8	14.1	B2/2500		
BH (60°-80°)	224.3	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-G2

Type III Short





REPORT NUMBER: P637823
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2544.6	2560.8	2587.7	2645.2	2693.7	2726.0	2740.4	2736.8	2717.0	2702.7	2673.9
5°	2817.6	2817.6	2869.7	3000.8	3101.3	3164.2	3196.5	3176.7	3137.2	3074.4	2977.4
7.5°	3056.4	3065.4	3153.4	3340.2	3492.8	3582.6	3634.7	3623.9	3553.9	3433.5	3239.6
10°	3243.2	3254.0	3370.7	3598.7	3778.3	3869.9	3947.1	3954.3	3877.1	3717.3	3494.6
12.5°	3424.6	3435.3	3557.4	3776.5	3934.6	3972.3	4040.5	4067.4	4047.7	3934.6	3702.9
15°	3620.3	3645.4	3749.6	3913.0	3979.5	3934.6	3979.5	4027.9	4094.4	4083.6	3875.3
17.5°	3812.4	3830.4	3936.4	3993.8	3920.2	3803.5	3825.0	3882.5	4033.3	4180.6	4045.9
20°	3990.2	4015.4	4103.4	4027.9	3805.3	3623.9	3625.7	3701.1	3931.0	4239.8	4220.1
22.5°	4177.0	4214.7	4277.6	4065.7	3699.3	3482.0	3491.0	3559.2	3850.2	4295.5	4417.6
25°	4421.2	4457.1	4498.4	4159.0	3665.2	3412.0	3446.1	3509.0	3850.2	4390.7	4661.9
27.5°	4751.6	4776.8	4778.6	4333.2	3724.5	3422.8	3494.6	3566.4	3965.1	4581.0	4988.7
30°	5166.5	5206.0	5153.9	4604.4	3909.4	3566.4	3672.4	3762.2	4212.9	4902.5	5470.0
32.5°	5671.1	5726.8	5656.7	5006.6	4295.5	4062.1	4254.2	4306.3	4608.0	5367.6	6015.9
35°	6263.7	6310.4	6235.0	5563.3	5197.0	5240.1	5588.5	5522.0	5401.7	5940.4	6653.4
37.5°	6913.8	6956.9	6811.4	6407.4	6529.5	6716.2	7272.9	7044.9	6657.0	6678.5	7344.8
40°	7510.0	7556.7	7328.6	7325.0	7576.4	7917.6	8589.2	8275.0	7747.0	7644.6	7993.0
42.5°	8127.7	8160.0	7953.5	7813.5	8384.5	9086.7	9797.8	9374.0	8468.9	8357.6	8804.7
45°	9009.4	9077.7	8709.5	8054.1	9111.8	10431.7	11423.0	10595.1	8961.0	8871.2	10047.4
47.5°	10306.0	10356.3	9605.6	8204.9	9788.8	12107.2	13454.0	12179.0	9393.7	9189.0	11746.2
50°	11378.1	11412.2	10429.9	8370.1	10508.9	13913.7	15768.8	14057.4	9880.4	9715.2	13331.9
52.5°	12168.2	12297.5	11512.8	8709.5	11455.3	16038.1	18331.4	16282.4	10640.0	10731.6	14646.4
55°	12331.6	12507.6	12252.6	8917.9	12288.5	18202.1	20698.2	18273.9	11397.8	11502.0	15088.2
57.5°	10837.5	10977.6	11189.5	8077.4	12268.8	19193.3	22072.0	18934.7	11053.0	10315.0	13434.3
60°	8118.7	8215.7	8600.0	6173.9	11282.9	18317.0	21001.7	17810.6	9664.9	7870.9	10236.0
62.5°	4814.5	4857.6	5344.2	3999.2	9365.0	15774.2	17417.3	15368.3	7637.5	5294.0	6269.1
65°	1847.9	1829.9	2201.6	1973.6	6886.8	12565.1	12954.8	11715.7	5240.1	2426.1	2390.2
67.5°	285.5	273.0	368.1	583.6	4967.1	8707.8	8547.9	8443.8	3282.7	565.7	493.8
70°	64.6	64.6	79.0	172.4	3034.9	5116.2	5475.3	5220.3	2101.1	120.3	64.6
72.5°	30.5	30.5	37.7	73.6	1099.0	2108.2	2456.6	2418.9	682.4	39.5	23.3
75°	10.8	12.6	12.6	16.2	66.4	109.5	251.4	179.6	43.1	0.0	0.0
77.5°	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	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: P637823

CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2611.1	2598.5	2551.8	2489.0	2427.9	2374.0	2318.4	2251.9	2203.4	2147.8	2129.8
5°	2902.0	2823.0	2695.5	2562.6	2440.5	2336.3	2235.7	2128.0	2049.0	1970.0	1943.0
7.5°	3148.0	3031.3	2824.8	2625.4	2458.4	2311.2	2165.7	2018.5	1903.5	1810.1	1781.4
10°	3368.9	3234.2	2957.7	2711.6	2501.5	2330.9	2154.9	1970.0	1820.9	1709.6	1682.6
12.5°	3559.2	3403.0	3070.8	2776.3	2519.5	2323.7	2153.1	2005.9	1871.2	1743.7	1709.6
15°	3719.1	3546.7	3166.0	2819.4	2492.5	2234.0	2084.9	2061.6	2050.8	1910.7	1844.3
17.5°	3875.3	3681.4	3243.2	2839.1	2417.1	2075.9	1968.2	2074.1	2187.3	2095.7	2011.3
20°	4038.7	3817.8	3322.2	2842.7	2291.4	1898.1	1880.2	2047.2	2190.9	2162.1	2083.1
22.5°	4230.9	3988.4	3421.0	2840.9	2133.4	1747.3	1815.5	1995.1	2111.8	2110.0	2047.2
25°	4509.2	4203.9	3553.9	2851.7	1961.0	1630.6	1743.7	1907.1	2002.3	1998.7	1946.6
27.5°	4807.3	4460.7	3726.2	2878.6	1813.7	1562.3	1659.3	1786.8	1869.4	1865.8	1820.9
30°	5225.7	4757.0	3891.5	2880.4	1707.8	1526.4	1565.9	1653.9	1732.9	1724.0	1689.8
32.5°	5733.9	5091.0	4029.7	2778.1	1641.3	1492.3	1469.0	1513.8	1574.9	1562.3	1553.4
35°	6348.1	5487.9	4148.3	2553.6	1539.0	1424.1	1361.2	1370.2	1413.3	1420.5	1416.9
37.5°	7048.4	5960.2	4295.5	2257.3	1400.7	1325.3	1240.9	1233.7	1258.8	1282.2	1300.1
40°	7739.8	6491.8	4494.8	1957.4	1275.0	1199.6	1118.8	1100.8	1111.6	1152.9	1190.6
42.5°	8517.4	7107.7	4710.3	1700.6	1188.8	1061.3	984.1	950.0	980.5	1046.9	1091.8
45°	9638.0	7971.5	4920.4	1495.9	1152.9	939.2	835.0	831.4	865.6	951.8	1002.0
47.5°	11211.1	9088.5	5058.7	1336.1	1151.1	844.0	720.1	741.7	781.2	865.6	923.0
50°	12744.7	10487.4	4906.1	1213.9	1113.4	781.2	633.9	677.0	716.5	790.1	849.4
52.5°	13669.5	11239.8	4311.7	1099.0	996.7	752.4	549.5	624.9	632.1	698.6	761.4
55°	13572.5	10753.1	3302.4	921.2	824.3	711.1	461.5	563.9	567.5	617.7	671.6
57.5°	11780.3	9232.1	2268.1	747.0	619.5	587.2	380.7	475.9	510.0	540.5	580.0
60°	8779.6	6736.0	1011.0	607.0	393.3	396.9	325.0	359.2	411.2	447.1	481.3
62.5°	5173.7	3875.3	411.2	364.5	217.3	249.6	262.2	262.2	294.5	321.4	343.0
65°	1955.6	1355.8	167.0	183.2	113.1	116.7	154.4	190.4	215.5	238.8	267.6
67.5°	343.0	237.0	86.2	68.2	66.4	59.3	79.0	123.9	138.3	156.2	168.8
70°	57.5	48.5	35.9	34.1	30.5	32.3	52.1	88.0	97.0	102.4	107.7
72.5°	16.2	14.4	10.8	9.0	7.2	9.0	32.3	68.2	71.8	75.4	80.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.6	48.5	52.1	53.9	59.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	14.4	18.0	14.4
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



REPORT NUMBER: P637823

CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2119.0	2083.1	2063.4	2052.6	2052.6	2038.2	2022.1	2016.7	2040.0	2040.0	2079.5
5°	1908.9	1880.2	1847.9	1828.1	1797.6	1803.0	1785.0	1783.2	1806.6	1817.3	1858.6
7.5°	1763.5	1727.5	1707.8	1695.2	1679.1	1671.9	1655.7	1650.3	1662.9	1680.9	1720.4
10°	1666.5	1661.1	1659.3	1668.3	1668.3	1659.3	1644.9	1636.0	1639.5	1673.7	1718.6
12.5°	1691.6	1702.4	1706.0	1720.4	1727.5	1720.4	1709.6	1713.2	1736.5	1799.4	1865.8
15°	1801.2	1792.2	1788.6	1795.8	1801.2	1794.0	1790.4	1817.3	1898.1	1987.9	2063.4
17.5°	1917.9	1860.4	1835.3	1835.3	1838.9	1835.3	1838.9	1891.0	2022.1	2111.8	2167.5
20°	1977.2	1871.2	1831.7	1822.7	1829.9	1831.7	1844.3	1903.5	2047.2	2110.0	2122.6
22.5°	1959.2	1826.3	1781.4	1774.2	1781.4	1788.6	1801.2	1851.5	1986.1	2018.5	2013.1
25°	1869.4	1738.3	1702.4	1702.4	1718.6	1716.8	1722.2	1758.1	1869.4	1889.2	1880.2
27.5°	1756.3	1632.4	1601.8	1619.8	1634.2	1630.6	1632.4	1662.9	1745.5	1750.9	1741.9
30°	1641.3	1533.6	1504.9	1526.4	1546.2	1542.6	1544.4	1574.9	1627.0	1621.6	1609.0
32.5°	1524.6	1445.6	1424.1	1436.6	1467.2	1463.6	1470.7	1503.1	1522.8	1499.5	1485.1
35°	1416.9	1375.6	1359.4	1366.6	1389.9	1395.3	1407.9	1429.4	1429.4	1400.7	1375.6
37.5°	1316.3	1310.9	1300.1	1291.2	1312.7	1328.9	1346.8	1372.0	1336.1	1294.8	1271.4
40°	1222.9	1246.3	1231.9	1208.6	1221.1	1244.5	1280.4	1300.1	1257.0	1215.7	1176.2
42.5°	1136.7	1176.2	1170.9	1142.1	1152.9	1174.4	1215.7	1231.9	1181.6	1134.9	1097.2
45°	1054.1	1109.8	1113.4	1077.5	1088.2	1109.8	1158.3	1163.7	1099.0	1048.7	1021.8
47.5°	982.3	1043.3	1045.1	1018.2	1021.8	1052.3	1097.2	1099.0	1025.4	978.7	944.6
50°	914.1	984.1	989.5	966.1	969.7	1005.6	1043.3	1036.2	957.2	908.7	878.1
52.5°	831.4	926.6	939.2	928.4	942.8	971.5	994.9	969.7	878.1	829.7	802.7
55°	741.7	865.6	892.5	885.3	901.5	924.8	930.2	914.1	799.1	750.6	725.5
57.5°	637.5	712.9	759.6	745.2	757.8	781.2	797.3	784.8	698.6	660.8	639.3
60°	528.0	578.2	589.0	565.7	554.9	596.2	633.9	617.7	544.1	520.8	495.6
62.5°	386.1	443.6	450.7	420.2	407.6	452.5	484.9	468.7	387.9	362.7	343.0
65°	308.9	362.7	377.1	348.4	341.2	375.3	395.1	355.6	298.1	271.2	249.6
67.5°	202.9	246.0	283.7	281.9	267.6	278.3	264.0	231.7	190.4	176.0	161.6
70°	125.7	150.8	174.2	183.2	181.4	177.8	158.0	134.7	122.1	116.7	109.5
72.5°	97.0	122.1	140.1	145.5	147.3	141.9	125.7	104.2	91.6	84.4	79.0
75°	71.8	91.6	106.0	113.1	116.7	113.1	97.0	82.6	70.0	64.6	59.3
77.5°	25.1	30.5	37.7	41.3	39.5	37.7	34.1	34.1	26.9	25.1	21.5
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



REPORT NUMBER: P637823
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2124.4	2156.7	2216.0	2269.9	2327.3	2386.6	2451.2	2517.7	2548.2	2544.6
5°	1921.5	1991.5	2088.5	2194.4	2313.0	2440.5	2582.3	2727.8	2790.6	2817.6
7.5°	1794.0	1892.8	2020.3	2154.9	2311.2	2492.5	2706.2	2934.3	3025.9	3056.4
10°	1810.1	1925.1	2031.0	2162.1	2329.1	2564.4	2830.2	3101.3	3209.1	3243.2
12.5°	1941.2	1966.4	1995.1	2102.9	2313.0	2618.3	2943.3	3266.5	3390.4	3424.6
15°	2059.8	1943.0	1889.2	1987.9	2255.5	2656.0	3058.2	3444.3	3580.8	3620.3
17.5°	2065.2	1889.2	1768.8	1846.1	2162.1	2672.1	3171.4	3625.7	3774.7	3812.4
20°	1998.7	1829.9	1675.5	1677.3	2034.6	2668.5	3264.7	3789.1	3956.1	3990.2
22.5°	1901.7	1759.9	1600.0	1544.4	1898.1	2661.4	3367.1	3963.3	4144.7	4177.0
25°	1794.0	1670.1	1528.2	1443.8	1761.7	2668.5	3510.8	4191.4	4390.7	4421.2
27.5°	1677.3	1571.3	1472.5	1404.3	1646.7	2695.5	3683.2	4482.3	4719.3	4751.6
30°	1555.1	1476.1	1436.6	1395.3	1574.9	2702.7	3869.9	4821.7	5121.6	5166.5
32.5°	1434.8	1391.7	1393.5	1400.7	1506.7	2652.4	4040.5	5198.8	5599.3	5671.1
35°	1323.5	1310.9	1346.8	1382.8	1407.9	2523.1	4189.6	5644.1	6190.1	6263.7
37.5°	1228.3	1239.1	1284.0	1319.9	1300.1	2339.9	4387.1	6200.8	6850.9	6913.8
40°	1136.7	1163.7	1215.7	1231.9	1217.5	2126.2	4624.1	6737.8	7423.8	7510.0
42.5°	1052.3	1072.1	1145.7	1149.3	1194.2	1908.9	4852.2	7316.0	8082.8	8127.7
45°	984.1	980.5	1055.9	1079.3	1224.7	1668.3	5074.9	8086.4	8944.8	9009.4
47.5°	917.6	914.1	932.0	1038.0	1237.3	1445.6	5295.8	9214.2	10194.7	10306.0
50°	854.8	860.2	804.5	1018.2	1169.1	1275.0	5396.3	10257.5	11331.4	11378.1
52.5°	799.1	779.4	682.4	953.6	1023.6	1113.4	5110.8	10731.6	12035.3	12168.2
55°	720.1	610.6	562.1	774.0	808.1	971.5	4186.0	10456.8	12096.4	12331.6
57.5°	616.0	479.5	477.7	571.1	571.1	901.5	2681.1	8934.0	10424.5	10837.5
60°	474.1	371.7	395.1	396.9	366.3	657.3	1504.9	6472.0	7707.5	8118.7
62.5°	337.6	283.7	298.1	237.0	210.1	328.6	721.9	3726.2	4757.0	4814.5
65°	226.3	192.1	156.2	131.1	129.3	140.1	298.1	1346.8	1637.8	1847.9
67.5°	149.0	116.7	82.6	82.6	93.4	93.4	113.1	222.7	312.5	285.5
70°	97.0	80.8	52.1	50.3	61.1	61.1	57.5	61.1	64.6	64.6
72.5°	71.8	61.1	30.5	26.9	34.1	35.9	32.3	30.5	30.5	30.5
75°	53.9	43.1	18.0	12.6	16.2	21.5	18.0	12.6	12.6	10.8
77.5°	21.5	16.2	7.2	5.4	9.0	12.6	10.8	5.4	3.6	3.6
80°	1.8	3.6	3.6	3.6	5.4	7.2	9.0	3.6	1.8	1.8
82.5°	0.0	1.8	1.8	1.8	3.6	5.4	7.2	3.6	1.8	1.8
85°	0.0	0.0	0.0	0.0	3.6	5.4	3.6	1.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.8	5.4	3.6	1.8	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)