

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: P637819

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637819
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-SA4D-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: 13432.4 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 - G2

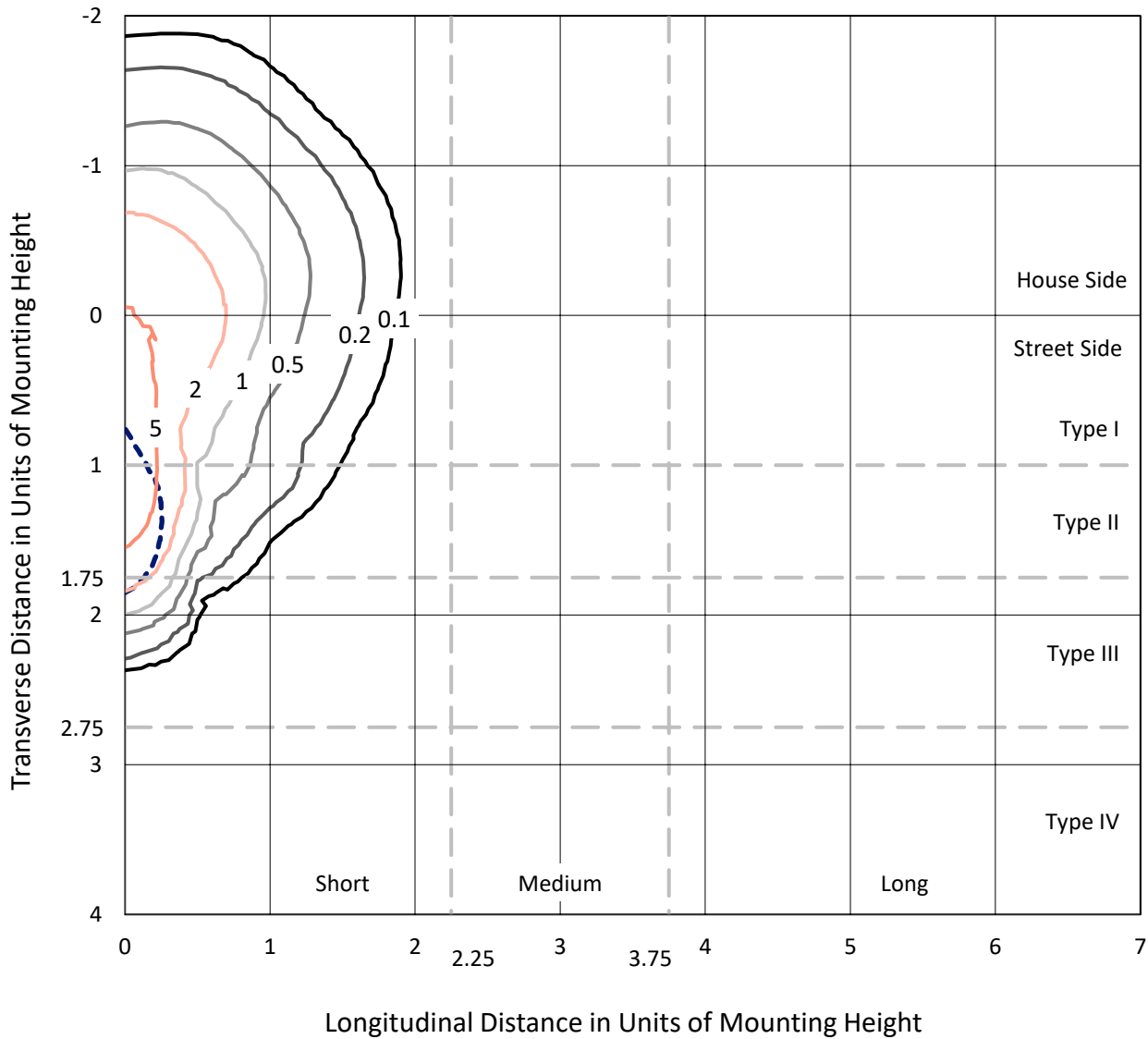
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

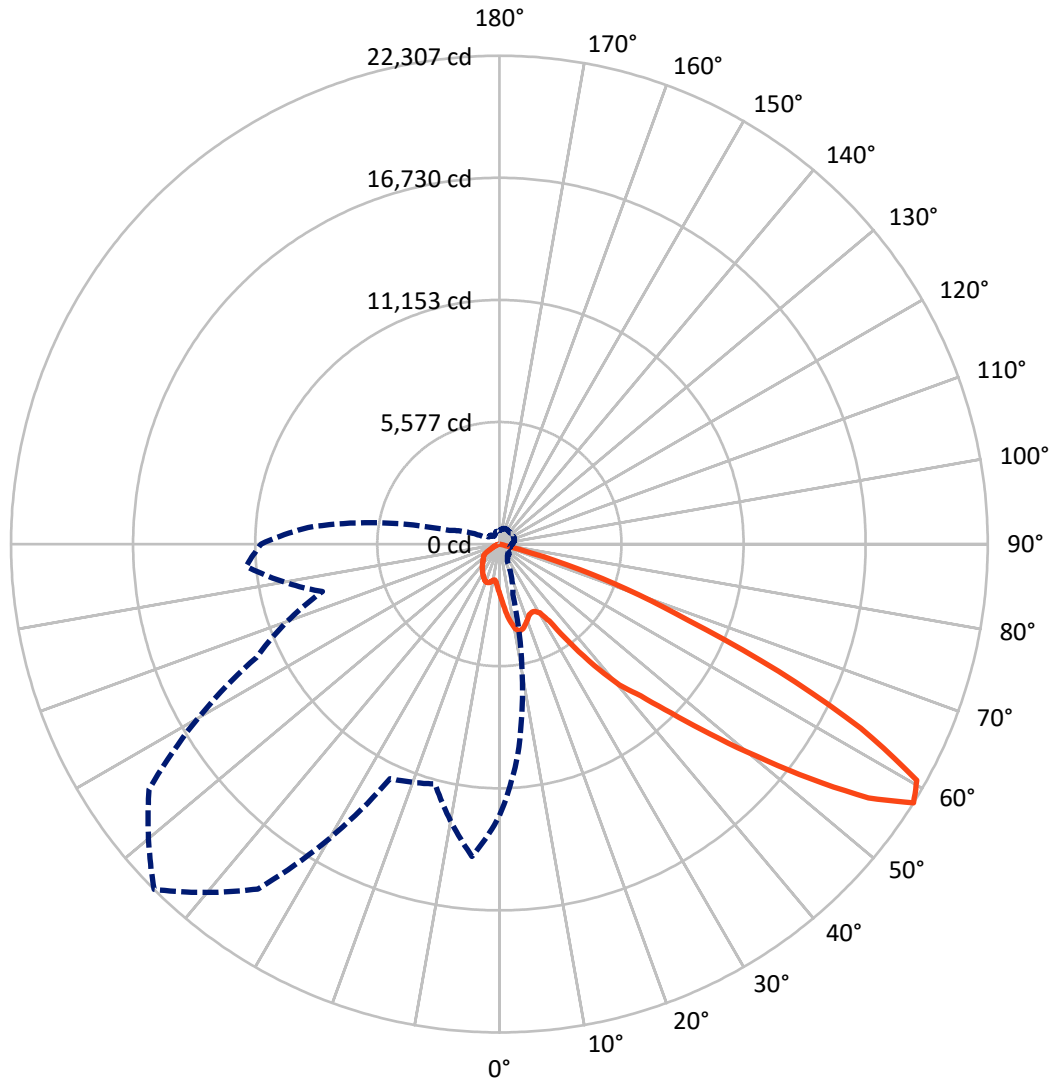
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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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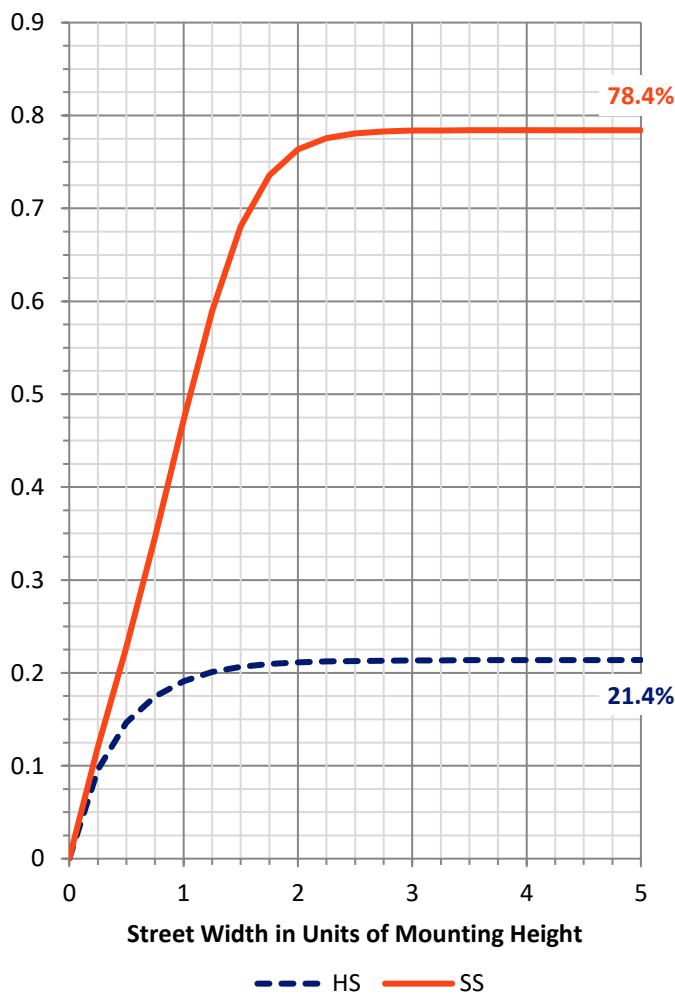
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2893.8	0.0	2893.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10538.6	0.0	10538.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	13432.4	0.0	13432.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.7
10°-20°	742.3	5.5
20°-30°	1204.6	9.0
30°-40°	1848.9	13.8
40°-50°	2952.7	22.0
50°-60°	4134.4	30.8
60°-70°	2119.8	15.8
70°-80°	204.1	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°	13432.4	100.0
0°-180°	13432.4	100.0

Coefficient of Utilization



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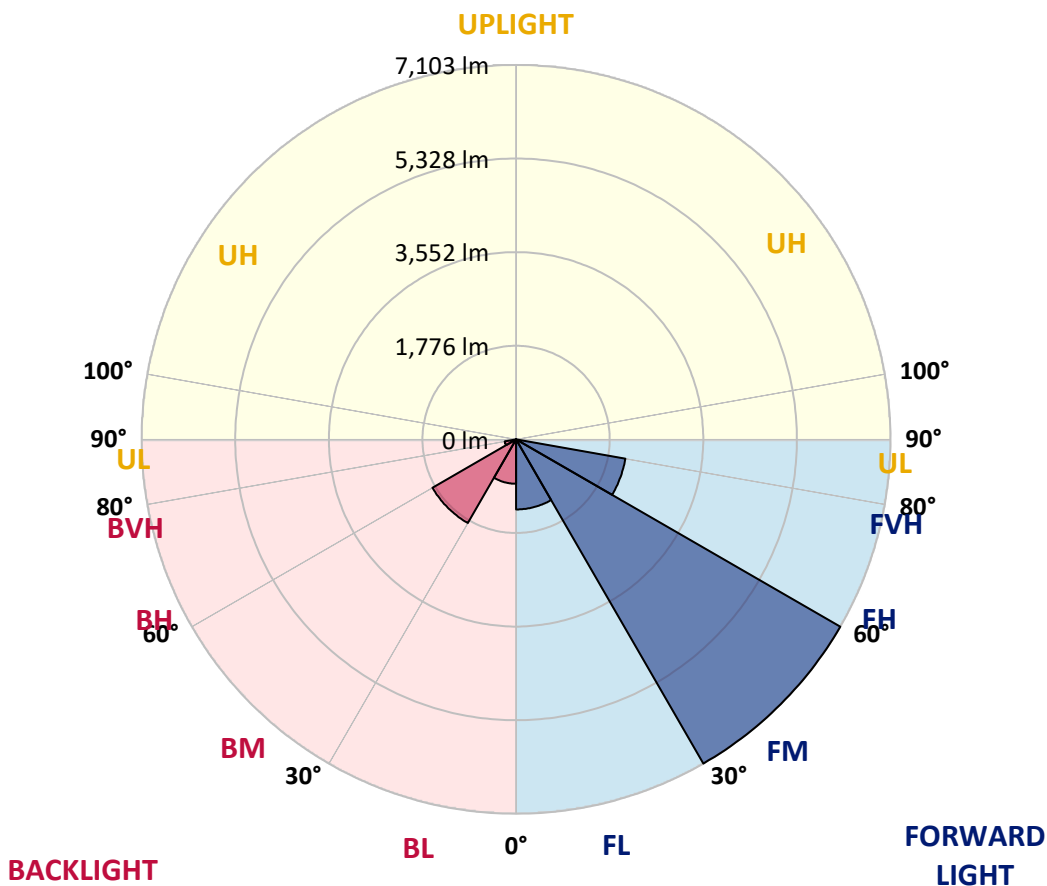
CATALOG NUMBER: GWS-SA4D-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.9	9.9			
FM (30°-60°)	7103.4	52.9			
FH (60°-80°)	2105.3	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	842.6	6.3	B2/1000		
BM (30°-60°)	1832.6	13.6	B2/2500		
BH (60°-80°)	218.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4
2.5°	2535.6	2530.2	2512.2	2451.2	2413.5	2354.2	2311.1	2255.4	2194.4	2156.7	2119.0
5°	2804.9	2790.6	2742.1	2602.0	2494.3	2377.5	2284.2	2181.8	2072.3	2000.4	1934.0
7.5°	3063.5	3042.0	2977.3	2740.3	2576.9	2409.9	2277.0	2127.9	1973.5	1865.8	1783.2
10°	3316.7	3268.2	3165.9	2875.0	2654.1	2453.0	2296.7	2126.1	1944.8	1808.3	1716.7
12.5°	3525.0	3489.1	3349.0	3002.4	2718.7	2461.9	2269.8	2111.8	1989.7	1898.1	1813.7
15°	3704.6	3665.1	3532.2	3117.4	2774.4	2426.0	2156.7	2018.4	2038.1	2074.1	2002.2
17.5°	3869.8	3828.5	3684.8	3212.5	2795.9	2338.0	1998.6	1932.2	2041.7	2176.4	2149.5
20°	4040.4	3993.7	3817.7	3289.8	2788.8	2199.8	1838.8	1858.6	2013.0	2167.4	2181.8
22.5°	4239.7	4191.2	3986.5	3388.5	2783.4	2034.6	1700.5	1793.9	1959.1	2090.2	2115.4
25°	4503.7	4446.2	4221.7	3534.0	2797.7	1883.7	1601.8	1731.1	1867.6	1986.1	2000.4
27.5°	4852.0	4778.4	4492.9	3713.6	2828.3	1765.2	1558.7	1644.9	1750.8	1856.8	1869.3
30°	5306.4	5213.0	4803.6	3869.8	2813.9	1682.6	1530.0	1558.7	1621.5	1707.7	1709.5
32.5°	5837.9	5710.4	5151.9	4004.5	2690.0	1621.5	1490.4	1470.7	1485.1	1551.5	1564.1
35°	6462.8	6297.6	5536.2	4132.0	2463.7	1503.0	1418.6	1352.2	1346.8	1379.1	1409.6
37.5°	7179.3	6981.8	6021.1	4295.4	2196.2	1379.1	1312.7	1246.2	1217.5	1233.7	1280.4
40°	7840.1	7621.0	6527.5	4492.9	1923.2	1267.8	1188.8	1120.5	1086.4	1091.8	1149.3
42.5°	8615.9	8389.6	7147.0	4751.5	1697.0	1192.4	1059.5	989.4	944.6	969.7	1036.1
45°	9793.9	9537.1	8050.2	4975.9	1517.4	1174.4	946.3	847.6	826.0	869.1	948.1
47.5°	11402.8	11088.6	9291.1	5112.4	1364.7	1190.6	867.3	732.7	738.0	786.5	865.5
50°	12999.2	12659.8	10725.9	4932.9	1239.0	1158.2	827.8	642.9	677.0	720.1	791.9
52.5°	14096.4	13654.7	11424.4	4413.9	1124.1	1036.1	824.2	558.5	623.1	637.5	698.5
55°	14139.5	13595.4	11067.0	3480.1	967.9	874.5	786.5	488.4	563.9	569.2	621.3
57.5°	12394.1	11902.1	9671.8	2390.1	860.2	641.1	626.7	427.4	463.3	508.2	540.5
60°	9429.3	9010.9	7233.2	1095.4	653.6	407.6	429.2	368.1	346.6	413.0	445.3
62.5°	5775.0	5507.5	4338.5	484.8	416.6	217.3	260.4	292.7	260.4	285.5	312.5
65°	2293.1	2174.6	1646.7	206.5	170.6	109.5	118.5	170.6	183.2	201.1	226.3
67.5°	398.7	377.1	276.5	91.6	70.0	66.4	57.5	79.0	111.3	123.9	143.7
70°	52.1	50.3	44.9	37.7	35.9	32.3	25.1	50.3	75.4	79.0	91.6
72.5°	12.6	10.8	10.8	9.0	10.8	3.6	3.6	26.9	53.9	55.7	64.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	34.1	37.7	44.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4
2.5°	2088.4	2052.5	2039.9	2022.0	1998.6	2005.8	1973.5	1962.7	1978.9	2000.4	1995.0
5°	1898.1	1858.6	1831.6	1790.3	1783.2	1767.0	1756.2	1741.9	1759.8	1784.9	1790.3
7.5°	1747.2	1713.1	1686.2	1673.6	1664.6	1657.5	1635.9	1625.1	1625.1	1635.9	1644.9
10°	1682.6	1657.5	1652.1	1655.7	1670.0	1668.2	1648.5	1634.1	1616.2	1607.2	1617.9
12.5°	1772.4	1731.1	1723.9	1725.7	1743.6	1741.9	1720.3	1702.3	1698.8	1702.3	1736.5
15°	1925.0	1862.2	1815.5	1806.5	1815.5	1811.9	1795.7	1784.9	1790.3	1842.4	1899.9
17.5°	2061.5	1964.5	1880.1	1847.8	1846.0	1840.6	1824.5	1820.9	1847.8	1944.8	2029.2
20°	2101.0	2005.8	1885.5	1844.2	1835.2	1829.8	1811.9	1817.3	1851.4	1968.1	2039.9
22.5°	2048.9	1957.3	1831.6	1790.3	1783.2	1781.4	1763.4	1770.6	1799.3	1901.7	1960.9
25°	1950.2	1872.9	1741.9	1705.9	1705.9	1702.3	1686.2	1689.8	1707.7	1797.5	1855.0
27.5°	1829.8	1756.2	1646.7	1610.8	1616.2	1621.5	1601.8	1596.4	1610.8	1695.2	1729.3
30°	1691.6	1639.5	1553.3	1521.0	1519.2	1540.7	1513.8	1506.6	1526.4	1592.8	1600.0
32.5°	1556.9	1531.8	1470.7	1445.6	1447.4	1450.9	1436.6	1436.6	1454.5	1490.4	1488.7
35°	1425.8	1409.6	1398.9	1380.9	1379.1	1371.9	1371.9	1375.5	1395.3	1407.8	1384.5
37.5°	1300.1	1316.3	1328.8	1310.9	1296.5	1296.5	1296.5	1312.7	1330.6	1325.2	1285.7
40°	1188.8	1222.9	1262.4	1242.6	1208.5	1206.7	1213.9	1240.8	1267.8	1235.5	1199.5
42.5°	1093.6	1136.7	1192.4	1181.6	1143.9	1138.5	1143.9	1178.0	1199.5	1158.2	1118.7
45°	1000.2	1054.1	1120.5	1120.5	1079.2	1073.8	1075.6	1120.5	1133.1	1084.6	1034.3
47.5°	921.2	980.5	1050.5	1050.5	1016.4	1005.6	1014.6	1061.3	1070.3	1002.0	955.3
50°	845.8	910.4	987.6	982.3	958.9	949.9	966.1	1016.4	1005.6	930.2	881.7
52.5°	750.6	818.8	924.8	930.2	917.6	919.4	939.2	971.5	941.0	849.4	808.1
55°	664.4	734.5	840.4	869.1	869.1	867.3	876.3	901.5	876.3	766.8	716.5
57.5°	571.0	630.3	718.3	725.5	730.9	711.1	723.7	757.8	745.2	651.8	623.1
60°	468.7	519.0	569.2	574.6	551.3	510.0	533.3	572.8	581.8	511.8	479.5
62.5°	332.2	380.7	440.0	440.0	416.6	375.3	405.8	440.0	427.4	355.6	335.8
65°	247.8	292.7	337.6	357.3	337.6	308.9	332.2	357.3	337.6	278.3	249.6
67.5°	159.8	190.3	217.3	233.4	237.0	233.4	244.2	237.0	213.7	174.2	158.0
70°	97.0	113.1	127.5	141.9	152.6	158.0	163.4	147.2	123.9	102.4	97.0
72.5°	70.0	84.4	97.0	107.7	120.3	123.9	123.9	113.1	91.6	71.8	66.4
75°	48.5	61.1	71.8	79.0	89.8	93.4	93.4	84.4	68.2	52.1	46.7
77.5°	1.8	12.6	12.6	10.8	14.4	18.0	18.0	21.5	19.8	14.4	12.6
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4
2.5°	2005.8	2070.5	2088.4	2154.9	2214.1	2273.4	2345.2	2388.3	2453.0	2497.9	2523.0
5°	1808.3	1862.2	1926.8	2025.6	2127.9	2241.1	2377.5	2496.1	2645.1	2754.6	2790.6
7.5°	1664.6	1734.7	1810.1	1934.0	2074.1	2224.9	2417.0	2611.0	2839.0	2988.1	3083.3
10°	1637.7	1709.5	1810.1	1932.2	2079.4	2251.8	2487.1	2738.5	3024.0	3205.4	3313.1
12.5°	1767.0	1844.2	1887.3	1943.0	2054.3	2246.4	2548.1	2867.8	3203.6	3401.1	3516.0
15°	1957.3	2025.6	1955.5	1885.5	1957.3	2189.0	2582.2	2975.5	3361.6	3589.7	3708.2
17.5°	2088.4	2093.8	1941.2	1792.1	1811.9	2084.8	2594.8	3083.3	3530.4	3769.2	3893.1
20°	2075.9	2032.8	1878.3	1713.1	1652.1	1950.2	2580.5	3178.4	3701.0	3950.6	4072.7
22.5°	1978.9	1928.6	1797.5	1635.9	1517.4	1790.3	2555.3	3264.6	3857.2	4140.9	4255.9
25°	1862.2	1808.3	1700.5	1558.7	1431.2	1635.9	2535.6	3383.1	4054.7	4388.7	4478.5
27.5°	1725.7	1679.0	1587.4	1485.1	1395.3	1519.2	2530.2	3539.4	4293.6	4690.4	4753.3
30°	1592.8	1549.7	1477.9	1418.6	1380.9	1450.9	2512.2	3706.4	4579.1	5037.0	5105.2
32.5°	1465.3	1422.2	1377.3	1368.3	1370.1	1425.8	2451.2	3871.6	4918.5	5539.8	5590.1
35°	1355.8	1305.5	1287.5	1309.1	1348.6	1382.7	2278.8	4008.1	5283.0	6087.5	6128.8
37.5°	1251.6	1201.3	1199.5	1251.6	1294.7	1316.3	2075.9	4142.7	5775.0	6644.2	6696.3
40°	1156.4	1106.2	1124.1	1187.0	1221.1	1231.9	1829.8	4347.4	6295.8	7231.4	7202.6
42.5°	1075.6	1023.6	1034.3	1115.1	1145.7	1174.4	1603.6	4518.0	6796.8	7788.1	7779.1
45°	996.6	957.1	949.9	1037.9	1064.9	1179.8	1438.4	4649.1	7441.5	8497.4	8511.7
47.5°	919.4	888.9	890.7	928.4	994.8	1206.7	1298.3	4735.3	8377.0	9621.5	9371.9
50°	849.4	826.0	845.8	802.7	949.9	1172.6	1178.0	4717.4	9422.2	10698.9	10197.9
52.5°	772.2	766.8	775.8	671.6	878.1	1034.3	1064.9	4478.5	9912.4	11435.2	11149.6
55°	693.1	691.4	619.5	536.9	734.5	826.0	912.2	3736.9	9896.2	11826.6	12173.2
57.5°	599.8	585.4	470.5	438.2	571.0	574.6	831.4	2447.6	8770.3	10889.3	11607.6
60°	454.3	443.5	344.8	355.6	398.7	368.1	662.6	1219.3	6554.4	8483.0	9292.9
62.5°	314.3	299.9	256.8	274.7	256.8	210.1	405.8	603.4	3970.3	5356.6	6091.1
65°	229.9	213.7	176.0	150.8	120.3	120.3	154.4	231.6	1537.1	2277.0	2745.7
67.5°	141.9	134.7	104.2	75.4	73.6	79.0	80.8	114.9	247.8	395.1	483.0
70°	91.6	84.4	70.0	48.5	44.9	46.7	48.5	53.9	62.9	68.2	82.6
72.5°	62.9	59.3	50.3	26.9	21.5	23.3	25.1	25.1	30.5	28.7	34.1
75°	44.9	41.3	35.9	12.6	7.2	9.0	10.8	9.0	10.8	7.2	9.0
77.5°	12.6	12.6	9.0	1.8	0.0	1.8	3.6	3.6	1.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	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: P637819

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4	2282.4
2.5°	2587.6	2628.9	2645.1	2621.8	2641.5	2609.2	2596.6	2548.1	2544.5	2535.6
5°	2936.0	3029.4	3085.1	3119.2	3079.7	3036.6	2971.9	2860.6	2826.5	2804.9
7.5°	3279.0	3424.4	3519.6	3564.5	3553.7	3465.7	3349.0	3162.3	3095.8	3063.5
10°	3577.1	3754.9	3869.8	3925.5	3902.1	3824.9	3657.9	3424.4	3336.5	3316.7
12.5°	3785.4	3948.8	4027.8	4076.3	4078.1	4047.6	3889.5	3654.3	3550.1	3525.0
15°	3916.5	3986.5	3988.3	4017.0	4067.3	4135.5	4061.9	3853.6	3742.3	3704.6
17.5°	3999.1	3921.9	3842.8	3850.0	3932.6	4114.0	4189.4	4029.6	3911.1	3869.8
20°	4058.3	3814.1	3666.9	3668.7	3753.1	4027.8	4277.4	4200.2	4078.1	4040.4
22.5°	4096.0	3718.9	3508.8	3503.5	3593.2	3925.5	4358.2	4403.1	4282.8	4239.7
25°	4173.3	3674.0	3413.7	3444.2	3523.2	3893.1	4467.8	4672.5	4561.1	4503.7
27.5°	4311.5	3718.9	3404.7	3474.7	3564.5	3988.3	4658.1	5031.6	4916.7	4852.0
30°	4550.4	3887.7	3543.0	3639.9	3747.7	4237.9	4977.7	5532.6	5367.4	5306.4
32.5°	4934.6	4237.9	3970.3	4178.6	4282.8	4647.3	5457.2	6094.7	5960.0	5837.9
35°	5464.4	5037.0	5006.5	5491.3	5466.2	5423.1	6046.2	6784.2	6581.3	6462.8
37.5°	6193.4	6322.7	6549.0	7030.3	7014.1	6685.5	6820.2	7436.1	7331.9	7179.3
40°	7103.9	7378.6	7762.9	8452.5	8237.0	7824.0	7770.1	8104.1	8019.7	7840.1
42.5°	7640.8	8114.9	8847.5	9467.1	9294.7	8572.8	8511.7	8996.6	8811.6	8615.9
45°	7890.4	8714.6	10151.2	10989.8	10467.3	9070.2	9046.9	10160.2	10056.0	9793.9
47.5°	8005.3	9319.8	11677.6	12947.2	11970.3	9506.6	9422.2	11848.2	11711.7	11402.8
50°	8132.8	10154.8	13516.4	15215.2	13785.8	10000.4	10061.4	13421.2	13363.8	12999.2
52.5°	8413.0	11038.3	15780.8	17808.2	15987.3	10774.3	11158.6	14904.5	14516.6	14096.4
55°	8833.2	12000.8	18136.8	20456.9	18233.8	11814.1	12345.6	15692.8	14604.6	14139.5
57.5°	8368.1	12241.4	19532.1	22306.5	19230.4	11817.7	11341.8	14326.3	12844.8	12394.1
60°	6640.6	11388.5	18995.2	21906.0	18381.0	10494.2	8684.1	11185.6	9731.0	9429.3
62.5°	4489.3	9551.5	16721.8	18526.5	15732.3	8254.9	5644.0	7274.5	6024.7	5775.0
65°	2460.1	7125.4	13511.0	14015.6	12313.3	5766.1	2903.7	3156.9	2404.5	2293.1
67.5°	678.8	4959.8	9941.1	9298.3	8639.2	3754.9	750.6	563.9	402.2	398.7
70°	170.6	3280.8	5956.4	6139.6	5297.4	2404.5	143.7	68.2	53.9	52.1
72.5°	71.8	1411.4	2826.5	3248.5	2711.5	1113.3	52.1	19.8	16.2	12.6
75°	9.0	113.1	240.6	364.5	249.6	120.3	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)