

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: P632870

Luminaire Tested: GWS-SA2D-750-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9296.7 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

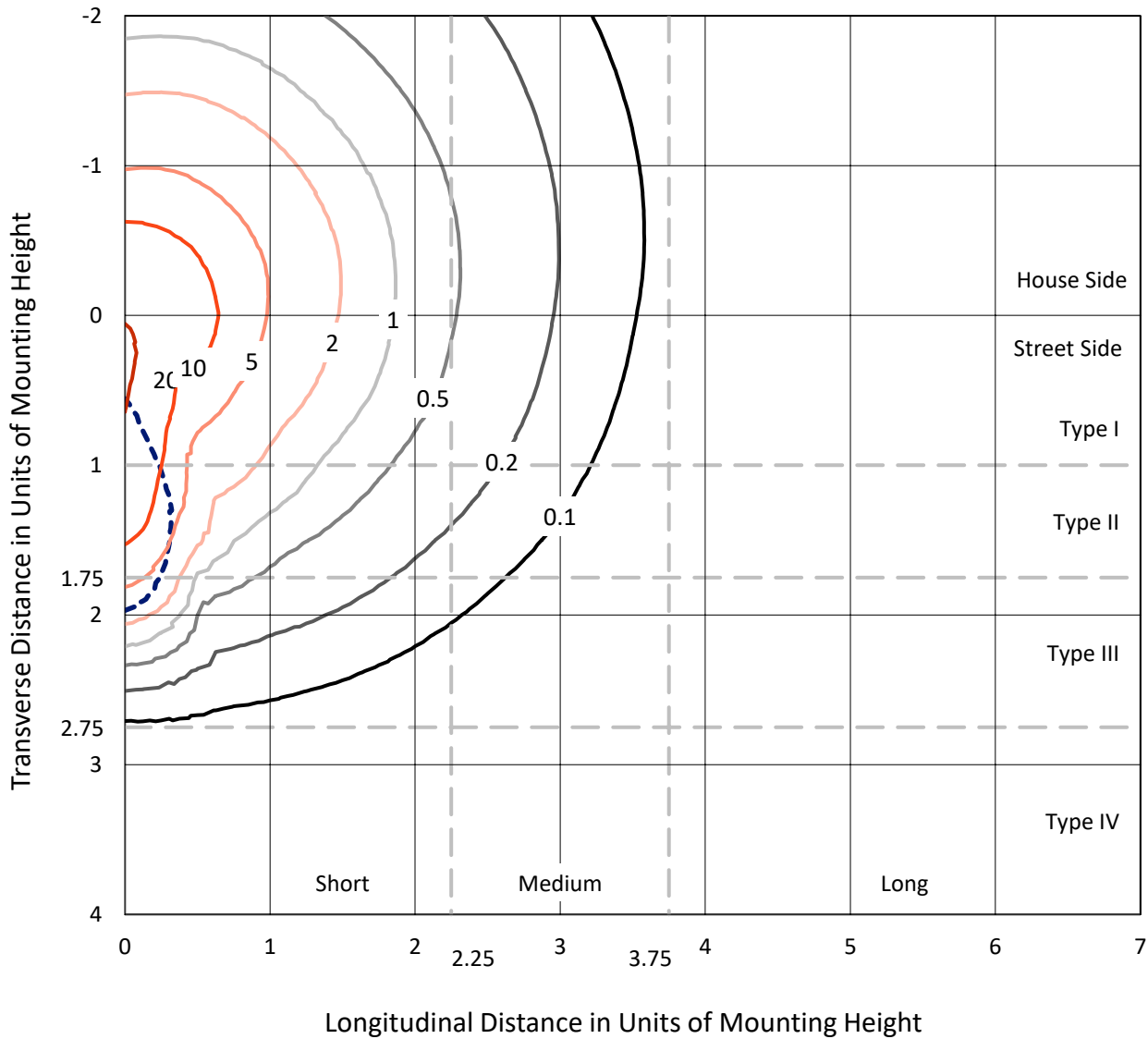
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

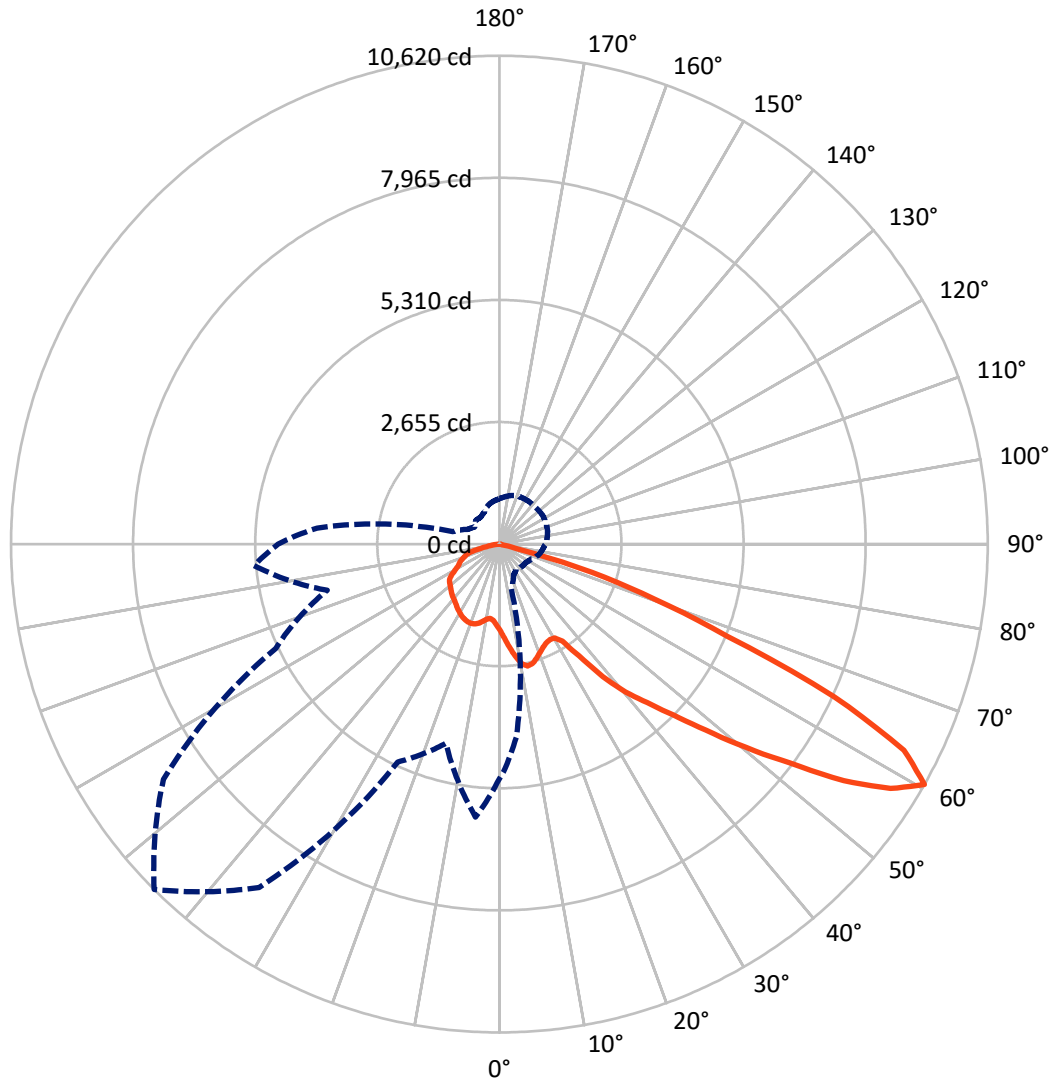
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3180.3	0.0	3180.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	6116.4	0.0	6116.4
	% Fixture	65.8	0.0	65.8
Total	Lumens	9296.7	0.0	9296.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	2.0
10°-20°	587.6	6.3
20°-30°	956.9	10.3
30°-40°	1344.3	14.5
40°-50°	1839.5	19.8
50°-60°	2360.0	25.4
60°-70°	1589.1	17.1
70°-80°	397.3	4.3
80°-90°	38.7	0.4
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°	9296.7	100.0
0°-180°	9296.7	100.0

Coefficient of Utilization



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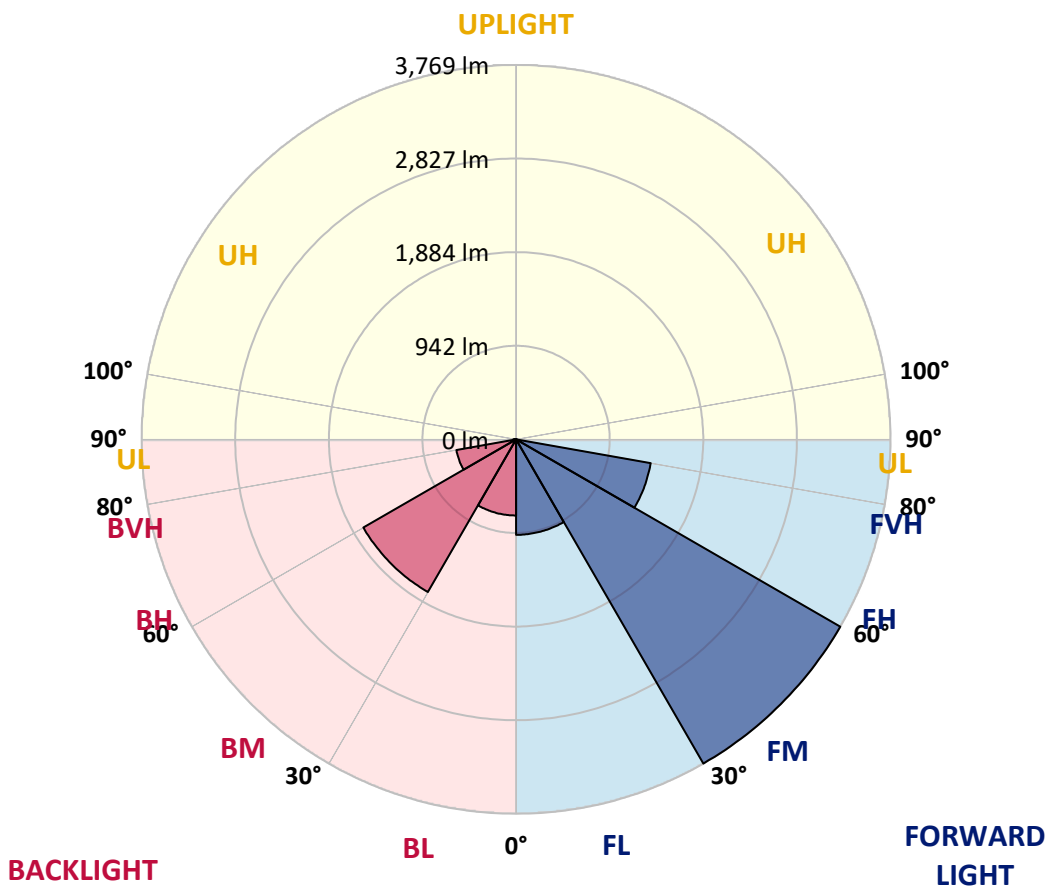
CATALOG NUMBER: GWS-SA2D-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.1	10.3			
FM (30°-60°)	3769.0	40.5			
FH (60°-80°)	1376.3	14.8			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	766.7	8.2	B2/1000		
BM (30°-60°)	1774.9	19.1	B2/2500		
BH (60°-80°)	610.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	28.7	0.3			G1/100
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°	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0
2.5°	1983.8	1979.5	1975.2	1941.8	1933.3	1909.3	1892.2	1870.8	1839.9	1822.8	1808.3
5°	2107.9	2101.1	2078.0	2009.5	1964.9	1916.1	1875.9	1831.4	1784.3	1753.5	1729.5
7.5°	2225.2	2223.5	2184.1	2071.1	1999.2	1929.0	1874.2	1809.1	1741.5	1695.2	1664.4
10°	2334.0	2321.1	2274.0	2126.8	2032.6	1952.1	1893.0	1821.1	1742.3	1679.8	1638.7
12.5°	2429.9	2413.6	2348.5	2178.1	2061.7	1962.4	1898.2	1839.1	1786.9	1734.6	1687.5
15°	2508.6	2488.9	2423.0	2226.1	2087.4	1956.4	1866.5	1820.2	1838.2	1861.3	1809.1
17.5°	2582.3	2561.7	2481.2	2261.2	2095.1	1919.6	1788.6	1768.9	1859.6	1964.9	1941.0
20°	2643.9	2620.8	2527.5	2278.3	2081.4	1849.4	1687.5	1721.8	1841.7	1967.5	2006.0
22.5°	2710.7	2691.8	2579.7	2303.1	2064.3	1752.6	1602.8	1686.7	1810.8	1921.3	1979.5
25°	2817.7	2794.6	2661.0	2346.8	2055.7	1661.9	1542.0	1652.4	1768.0	1868.2	1913.6
27.5°	2972.7	2929.9	2772.3	2423.0	2065.1	1576.2	1503.5	1610.5	1718.4	1804.0	1840.8
30°	3141.3	3090.0	2895.6	2501.8	2078.8	1524.0	1482.9	1562.5	1642.2	1727.8	1768.0
32.5°	3340.8	3295.5	3027.5	2560.8	2049.7	1500.0	1467.5	1510.3	1573.7	1642.2	1675.6
35°	3578.9	3497.5	3171.3	2608.8	1955.5	1464.9	1453.8	1452.9	1486.3	1553.1	1590.8
37.5°	3834.9	3747.5	3348.5	2660.2	1809.1	1409.3	1421.3	1385.3	1416.1	1469.2	1512.0
40°	4044.6	3953.0	3527.5	2730.4	1625.9	1321.9	1349.3	1310.8	1329.7	1384.5	1432.4
42.5°	4250.1	4152.5	3694.4	2810.0	1448.7	1236.3	1250.0	1235.5	1241.5	1298.8	1365.6
45°	4519.8	4410.2	3899.9	2866.5	1289.4	1168.7	1155.9	1131.0	1162.7	1237.2	1308.3
47.5°	4970.2	4839.2	4236.4	2903.3	1173.8	1130.2	1071.1	1056.5	1095.9	1179.0	1252.6
50°	5496.7	5383.7	4774.1	2901.6	1087.4	1097.6	988.9	976.1	1041.1	1125.0	1202.9
52.5°	5928.2	5813.5	5233.9	2816.0	1016.3	1028.3	940.9	905.0	994.0	1071.9	1149.9
55°	6276.7	6147.4	5445.3	2458.1	926.4	917.8	888.7	822.8	935.0	1018.9	1091.6
57.5°	6089.2	5935.1	5189.3	1869.1	833.9	780.0	798.8	750.0	854.5	959.8	1030.0
60°	5105.4	4966.7	4215.9	994.9	733.8	651.6	690.9	698.6	766.3	888.7	960.6
62.5°	3506.9	3405.9	2857.1	603.6	578.8	523.1	584.8	640.4	690.9	794.5	857.0
65°	1715.8	1685.8	1429.0	387.0	405.0	423.0	484.6	552.2	626.7	717.5	783.4
67.5°	472.6	476.0	433.2	302.2	319.4	369.0	417.8	471.8	546.2	630.2	696.9
70°	208.1	211.5	218.3	232.9	265.4	310.8	361.3	417.0	485.5	555.7	619.9
72.5°	144.7	148.1	158.4	177.2	206.3	249.1	297.1	350.2	421.2	480.3	533.4
75°	89.0	91.6	101.0	117.3	137.0	169.5	216.6	265.4	327.9	381.9	428.9
77.5°	47.1	45.4	51.4	62.5	79.6	96.7	128.4	159.3	203.8	247.4	286.8
80°	25.7	24.8	28.3	34.2	39.4	53.1	74.5	95.0	120.7	145.6	167.0
82.5°	11.1	10.3	11.1	14.6	18.0	25.7	37.7	52.2	66.8	83.9	97.6
85°	0.0	0.0	0.0	0.9	4.3	6.8	12.8	18.8	27.4	37.7	46.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	7.7
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°	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0
2.5°	1799.7	1778.3	1776.6	1759.5	1761.2	1762.0	1744.9	1738.1	1744.0	1750.9	1747.5
5°	1720.9	1698.7	1689.3	1673.0	1671.3	1663.6	1656.7	1648.2	1654.1	1660.1	1663.6
7.5°	1652.4	1637.9	1631.9	1627.6	1629.3	1625.9	1612.2	1604.5	1603.6	1606.2	1609.6
10°	1630.2	1618.2	1625.9	1637.9	1646.4	1652.4	1637.9	1625.0	1613.1	1607.9	1607.9
12.5°	1678.1	1662.7	1678.1	1691.0	1708.1	1712.4	1696.1	1682.4	1678.1	1683.3	1693.5
15°	1784.3	1748.3	1747.5	1755.2	1768.9	1775.7	1760.3	1753.5	1753.5	1786.0	1811.7
17.5°	1890.5	1831.4	1806.6	1802.3	1810.8	1813.4	1800.6	1794.6	1810.0	1873.3	1921.3
20°	1964.9	1893.0	1839.1	1828.8	1831.4	1832.2	1822.0	1817.7	1839.9	1917.0	1957.2
22.5°	1957.2	1904.2	1838.2	1825.4	1829.7	1828.0	1818.5	1816.8	1834.8	1901.6	1920.4
25°	1904.2	1863.1	1807.4	1798.8	1805.7	1804.8	1795.4	1791.1	1798.8	1843.4	1845.1
27.5°	1843.4	1807.4	1759.5	1756.9	1768.0	1774.0	1757.7	1744.9	1742.3	1772.3	1765.5
30°	1770.6	1744.0	1705.5	1707.2	1727.8	1731.2	1711.5	1692.7	1687.5	1703.8	1694.4
32.5°	1684.1	1675.6	1655.0	1659.3	1679.0	1685.8	1665.3	1645.6	1639.6	1644.7	1625.0
35°	1610.5	1607.1	1608.8	1616.5	1633.6	1638.7	1621.6	1606.2	1597.6	1579.7	1554.0
37.5°	1534.3	1543.7	1568.5	1583.1	1592.5	1590.8	1581.4	1570.2	1556.5	1523.2	1491.5
40°	1463.2	1487.2	1531.7	1548.0	1551.4	1552.3	1545.4	1536.0	1518.9	1474.4	1438.4
42.5°	1408.4	1435.0	1494.0	1518.9	1520.6	1522.3	1515.4	1507.7	1483.8	1424.7	1389.6
45°	1351.1	1386.2	1455.5	1485.5	1483.8	1482.9	1476.9	1473.5	1445.2	1376.7	1338.2
47.5°	1302.3	1343.4	1417.8	1443.5	1442.7	1441.8	1437.5	1437.5	1409.3	1334.8	1291.1
50°	1254.3	1301.4	1379.3	1400.7	1402.4	1400.7	1399.0	1401.6	1368.2	1288.6	1245.7
52.5°	1202.1	1255.2	1336.5	1356.2	1366.5	1370.8	1370.8	1364.8	1325.4	1242.3	1195.2
55°	1144.7	1195.2	1289.4	1316.0	1324.5	1332.2	1332.2	1320.2	1283.4	1199.5	1149.0
57.5°	1073.7	1118.2	1192.7	1219.2	1239.8	1244.9	1244.9	1225.2	1195.2	1114.8	1073.7
60°	996.6	1035.1	1085.6	1113.9	1129.3	1119.0	1126.7	1121.6	1097.6	1023.1	988.9
62.5°	893.9	933.2	988.9	1018.0	1024.9	1014.6	1024.9	1024.0	991.5	924.7	883.6
65°	820.2	858.8	913.5	951.2	962.4	959.8	966.6	956.4	916.1	852.8	813.4
67.5°	732.9	774.0	837.3	879.3	902.4	905.0	914.4	893.0	851.9	782.6	732.9
70°	649.8	684.9	733.8	773.1	805.7	821.9	823.7	792.8	741.5	684.1	648.1
72.5°	562.5	598.5	657.6	700.4	741.5	760.3	760.3	722.6	667.0	603.6	565.1
75°	456.3	489.7	543.7	589.9	637.0	661.0	660.1	627.6	565.9	506.0	465.8
77.5°	309.1	333.9	368.2	403.3	410.1	428.9	438.4	397.3	363.0	330.5	294.5
80°	179.8	195.2	214.0	233.7	238.0	244.0	228.6	213.2	195.2	173.8	157.5
82.5°	105.3	115.6	125.0	140.4	143.0	144.7	131.0	124.1	109.6	96.7	86.5
85°	51.4	54.8	63.4	71.1	67.6	65.9	59.9	53.1	47.1	42.0	36.8
87.5°	10.3	10.3	15.4	14.6	12.0	10.3	6.0	7.7	1.7	1.7	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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CATALOG NUMBER: GWS-SA2D-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0
2.5°	1758.6	1773.2	1791.1	1815.1	1842.5	1871.6	1899.9	1921.3	1942.7	1974.4	1969.2
5°	1668.7	1693.5	1721.8	1758.6	1803.1	1853.6	1910.1	1966.7	2027.4	2078.8	2101.1
7.5°	1616.5	1643.9	1677.3	1725.2	1782.6	1844.2	1923.8	2015.5	2113.9	2181.6	2223.5
10°	1616.5	1651.6	1695.2	1741.5	1792.0	1855.4	1953.8	2068.5	2195.3	2284.3	2333.1
12.5°	1709.8	1744.9	1754.3	1752.6	1780.9	1851.1	1977.8	2124.2	2275.7	2369.9	2429.9
15°	1855.4	1867.3	1796.3	1731.2	1735.5	1820.2	1988.9	2168.7	2345.1	2458.1	2523.2
17.5°	1953.0	1921.3	1794.6	1680.7	1656.7	1768.0	1988.9	2211.5	2418.7	2546.3	2607.1
20°	1960.7	1881.9	1750.9	1631.9	1570.2	1698.7	1975.2	2244.1	2489.8	2631.1	2696.1
22.5°	1893.0	1815.1	1704.7	1589.9	1499.2	1614.8	1953.0	2268.9	2550.6	2710.7	2791.2
25°	1816.0	1750.9	1657.6	1547.1	1450.4	1530.0	1932.4	2310.8	2635.3	2818.6	2899.9
27.5°	1740.6	1685.8	1601.1	1511.2	1423.0	1456.4	1919.6	2372.5	2736.4	2971.8	3042.0
30°	1667.0	1617.3	1540.3	1476.9	1408.4	1408.4	1908.4	2443.6	2869.9	3143.9	3214.1
32.5°	1592.5	1545.4	1482.9	1443.5	1399.9	1389.6	1877.6	2510.3	3007.8	3332.3	3404.2
35°	1523.2	1476.1	1428.1	1411.8	1395.6	1375.0	1801.4	2562.6	3142.2	3552.3	3614.0
37.5°	1458.1	1412.7	1376.7	1372.5	1374.2	1335.6	1681.5	2606.2	3310.0	3777.5	3810.0
40°	1401.6	1351.1	1322.8	1321.9	1330.5	1272.3	1530.0	2668.7	3501.8	3968.4	3954.7
42.5°	1351.1	1298.0	1263.7	1271.4	1266.3	1208.9	1381.9	2726.1	3668.8	4147.4	4120.0
45°	1301.4	1250.0	1202.1	1213.2	1207.2	1169.5	1256.0	2768.0	3853.7	4362.3	4365.7
47.5°	1253.5	1202.9	1155.0	1141.3	1140.4	1157.6	1159.3	2781.7	4155.1	4708.2	4630.2
50°	1208.9	1158.4	1108.8	1062.5	1080.5	1133.6	1087.4	2771.5	4606.3	5090.0	4872.5
52.5°	1162.7	1114.8	1060.0	976.9	1024.0	1076.2	1023.1	2734.7	4882.0	5427.4	5297.2
55°	1109.6	1064.2	989.8	888.7	946.1	957.2	957.2	2378.5	4999.3	5761.3	5841.8
57.5°	1038.6	978.6	860.5	779.1	830.5	787.7	887.0	1664.4	4805.8	5656.0	5968.5
60°	958.1	893.9	768.9	710.6	726.0	650.7	756.0	1043.7	3983.0	4812.6	5353.7
62.5°	851.9	792.8	689.2	643.9	612.2	530.8	608.7	660.1	2730.4	3573.7	3942.7
65°	780.8	715.8	623.3	563.4	498.3	427.2	404.1	433.2	1468.4	2000.0	2249.2
67.5°	696.9	632.7	545.4	470.0	417.8	366.4	326.2	315.9	503.4	666.1	720.9
70°	617.3	555.7	482.9	412.7	360.5	309.9	270.6	242.3	232.9	231.2	227.7
72.5°	536.0	478.6	417.8	352.7	295.4	249.1	214.0	181.5	167.8	163.5	159.3
75°	439.2	393.8	333.1	262.8	216.6	173.8	146.4	125.0	113.0	108.7	103.6
77.5°	282.5	262.0	208.9	169.5	131.0	103.6	89.0	75.3	67.6	65.9	61.6
80°	150.7	140.4	115.6	97.6	77.9	63.4	55.7	47.9	43.7	42.0	40.2
82.5°	83.9	76.2	64.2	56.5	45.4	38.5	34.2	30.8	28.3	27.4	26.5
85°	37.7	32.5	25.7	24.0	21.4	19.7	18.8	17.1	16.3	15.4	14.6
87.5°	1.7	3.4	4.3	3.4	3.4	5.1	6.0	6.0	5.1	5.1	4.3
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: P632870

CATALOG NUMBER: GWS-SA2D-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0
2.5°	2000.9	2026.6	2029.2	2037.7	2026.6	2024.0	2006.0	1995.8	1986.3	1983.8
5°	2156.7	2208.1	2228.7	2243.2	2229.5	2222.7	2183.3	2142.2	2119.1	2107.9
7.5°	2316.8	2393.9	2434.1	2452.1	2453.8	2423.0	2355.4	2278.3	2239.8	2225.2
10°	2459.8	2554.9	2607.9	2642.2	2630.2	2592.5	2500.1	2395.6	2346.8	2334.0
12.5°	2566.0	2656.7	2697.8	2720.1	2719.2	2698.7	2611.4	2498.3	2442.7	2429.9
15°	2634.5	2688.4	2691.0	2696.1	2710.7	2738.1	2692.7	2588.2	2526.6	2508.6
17.5°	2688.4	2667.0	2626.8	2613.1	2645.6	2721.8	2749.2	2664.4	2597.7	2582.3
20°	2722.7	2614.8	2543.7	2517.2	2554.9	2679.0	2783.5	2732.9	2663.6	2643.9
22.5°	2749.2	2566.0	2451.3	2433.3	2472.7	2632.8	2818.6	2814.3	2738.1	2710.7
25°	2791.2	2533.5	2386.2	2373.3	2410.2	2610.5	2865.7	2924.7	2857.1	2817.7
27.5°	2857.1	2530.0	2352.8	2348.5	2399.0	2630.2	2933.3	3086.5	3001.8	2972.7
30°	2948.7	2562.6	2360.5	2369.1	2430.7	2701.3	3038.6	3271.5	3186.7	3141.3
32.5°	3080.6	2649.9	2477.8	2514.6	2560.0	2815.1	3192.7	3471.8	3407.6	3340.8
35°	3254.4	2889.6	2824.6	2981.2	2938.4	3064.3	3378.5	3715.0	3637.1	3578.9
37.5°	3486.4	3381.1	3441.0	3656.8	3553.2	3535.2	3605.4	3935.9	3893.1	3834.9
40°	3811.7	3833.1	3943.6	4227.0	4077.2	3961.6	3883.7	4102.0	4116.5	4044.6
42.5°	4027.5	4126.0	4392.2	4714.2	4507.8	4231.3	4116.5	4314.3	4315.2	4250.1
45°	4108.0	4365.7	4922.2	5292.9	4947.9	4385.4	4245.0	4602.9	4594.3	4519.8
47.5°	4078.9	4567.7	5472.7	6039.5	5513.0	4495.0	4227.0	5013.8	5083.2	4970.2
50°	4018.1	4770.7	6115.7	6953.9	6206.5	4611.4	4199.6	5469.3	5584.0	5496.7
52.5°	4079.7	4996.7	6876.0	7899.2	7076.4	4797.2	4384.5	6054.1	6033.5	5928.2
55°	4274.9	5263.8	7799.8	9086.7	8031.9	5111.4	4859.7	6611.5	6402.6	6276.7
57.5°	4265.5	5454.8	8609.8	10025.9	8863.2	5369.1	5025.0	6670.5	6248.4	6089.2
60°	3871.7	5367.4	8918.0	10620.1	9114.1	5227.0	4481.3	5958.2	5272.4	5105.4
62.5°	2889.6	4763.0	8320.4	9876.1	8404.3	4514.7	3369.9	4276.6	3788.6	3506.9
65°	1848.5	3726.1	6995.0	8001.1	6927.4	3453.0	2006.9	2292.9	1796.3	1715.8
67.5°	786.8	2630.2	5437.6	5347.7	5182.5	2237.2	774.8	645.6	481.2	472.6
70°	260.3	1789.4	3352.0	3566.9	3095.1	1541.1	256.0	216.6	215.8	208.1
72.5°	170.4	960.6	1887.0	2101.1	1991.5	887.0	155.0	144.7	148.1	144.7
75°	101.9	208.9	317.6	412.7	317.6	149.0	93.3	91.6	93.3	89.0
77.5°	59.9	58.2	56.5	56.5	55.7	51.4	47.1	45.4	46.2	47.1
80°	38.5	36.8	35.1	34.2	30.0	28.3	26.5	24.8	24.8	25.7
82.5°	24.8	23.1	21.4	18.8	15.4	12.8	12.0	10.3	10.3	11.1
85°	12.8	10.3	7.7	6.0	3.4	1.7	0.0	0.0	0.0	0.0
87.5°	2.6	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)