

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: P633585

Luminaire Tested: GWS-SA2F-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633585
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-SA2F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9301.2 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

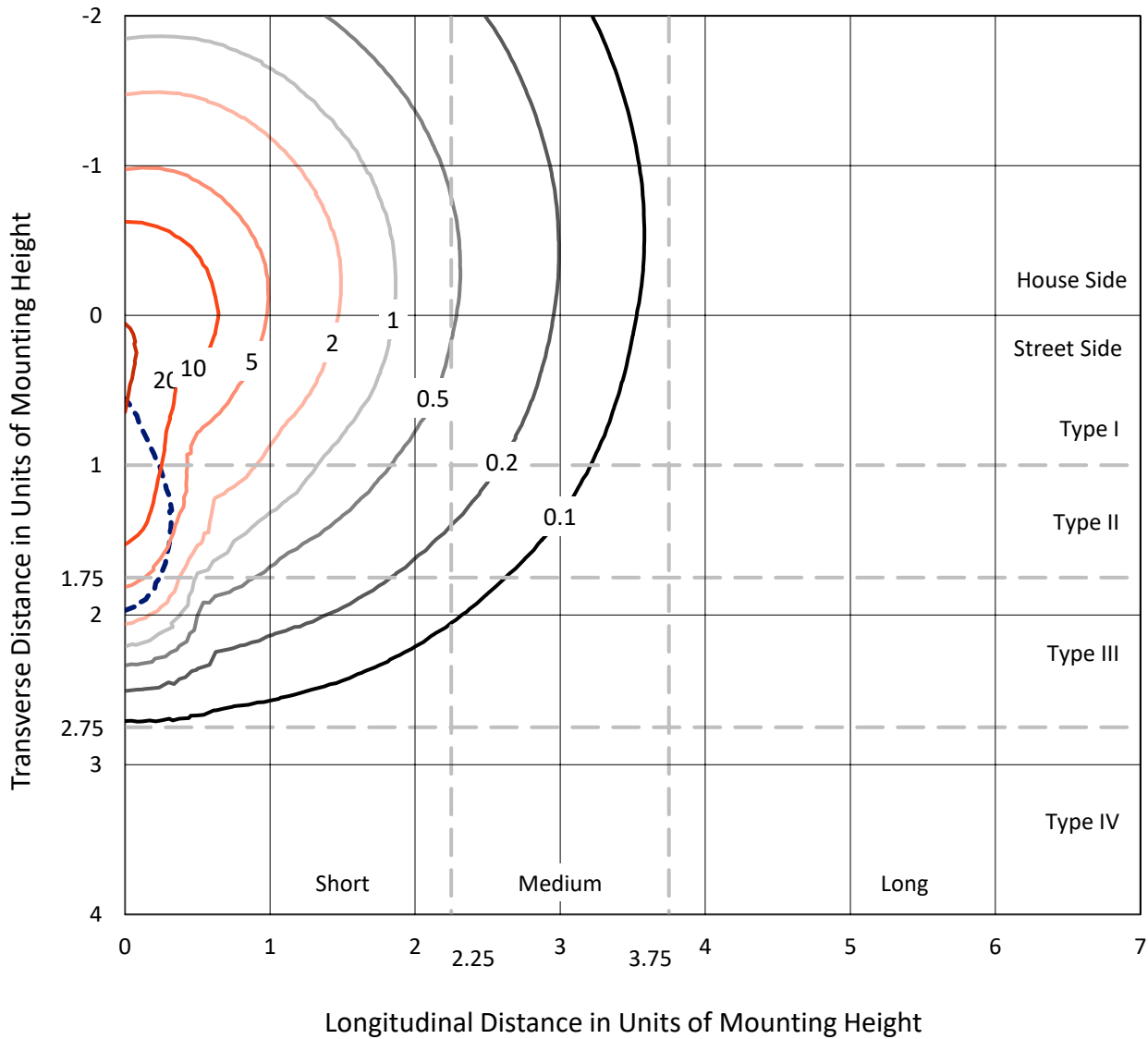
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

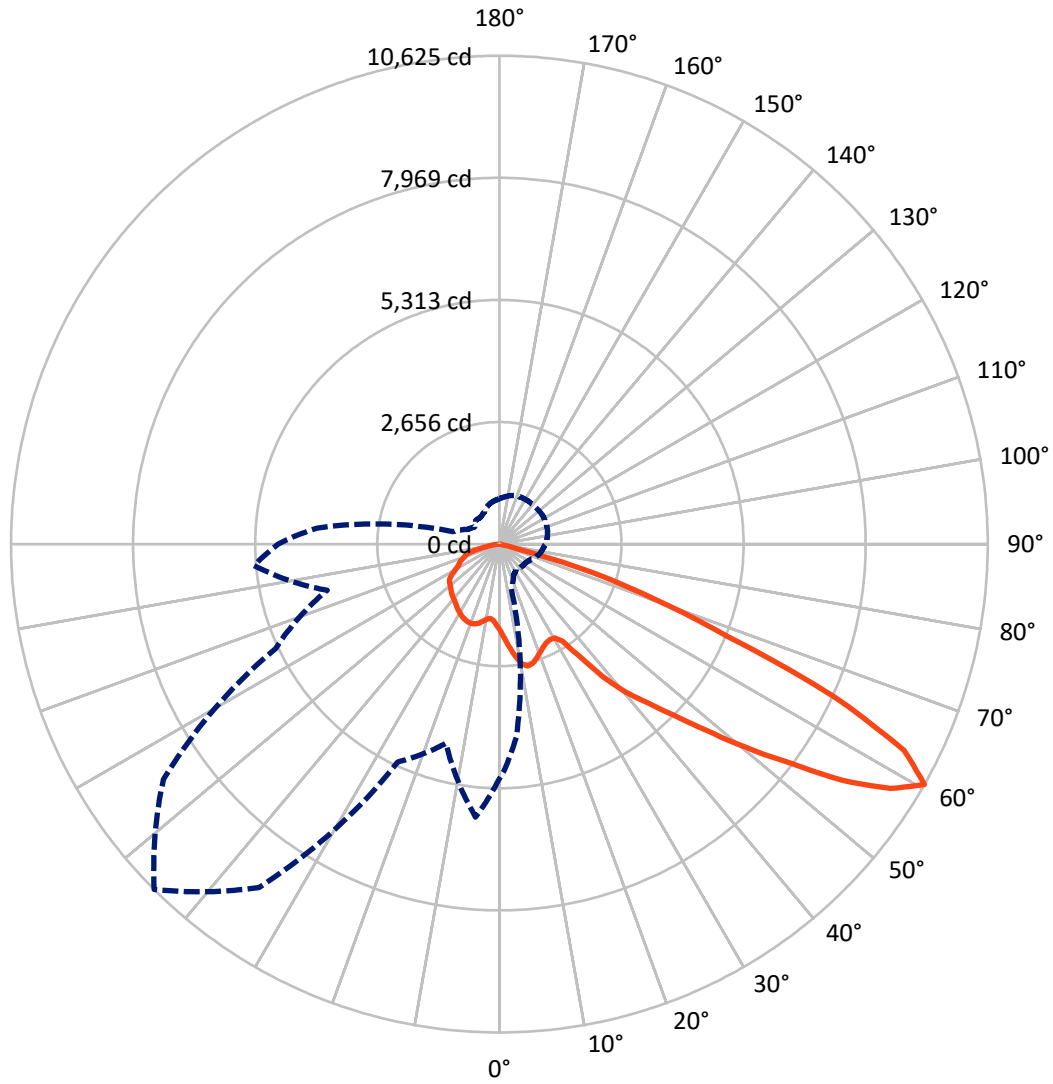
× Max cd
 - - - 1/2 Max cd



Based on 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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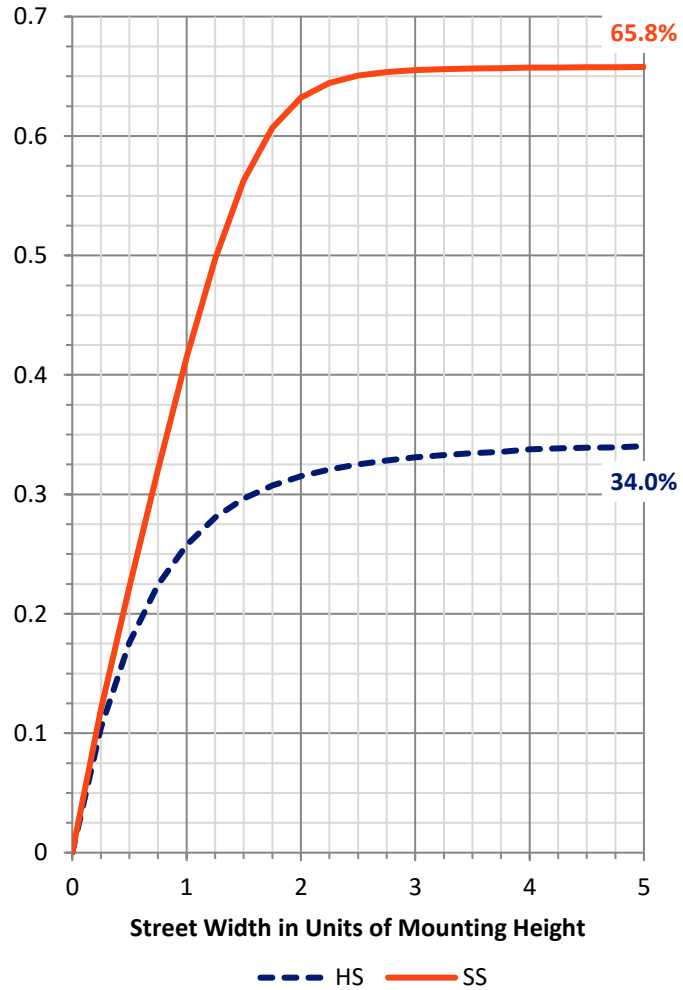
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.9	0.0	3181.9
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	6119.3	0.0	6119.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	9301.2	0.0	9301.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	2.0
10°-20°	587.9	6.3
20°-30°	957.4	10.3
30°-40°	1344.9	14.5
40°-50°	1840.4	19.8
50°-60°	2361.2	25.4
60°-70°	1589.9	17.1
70°-80°	397.5	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°	9301.2	100.0
0°-180°	9301.2	100.0

Coefficient of Utilization



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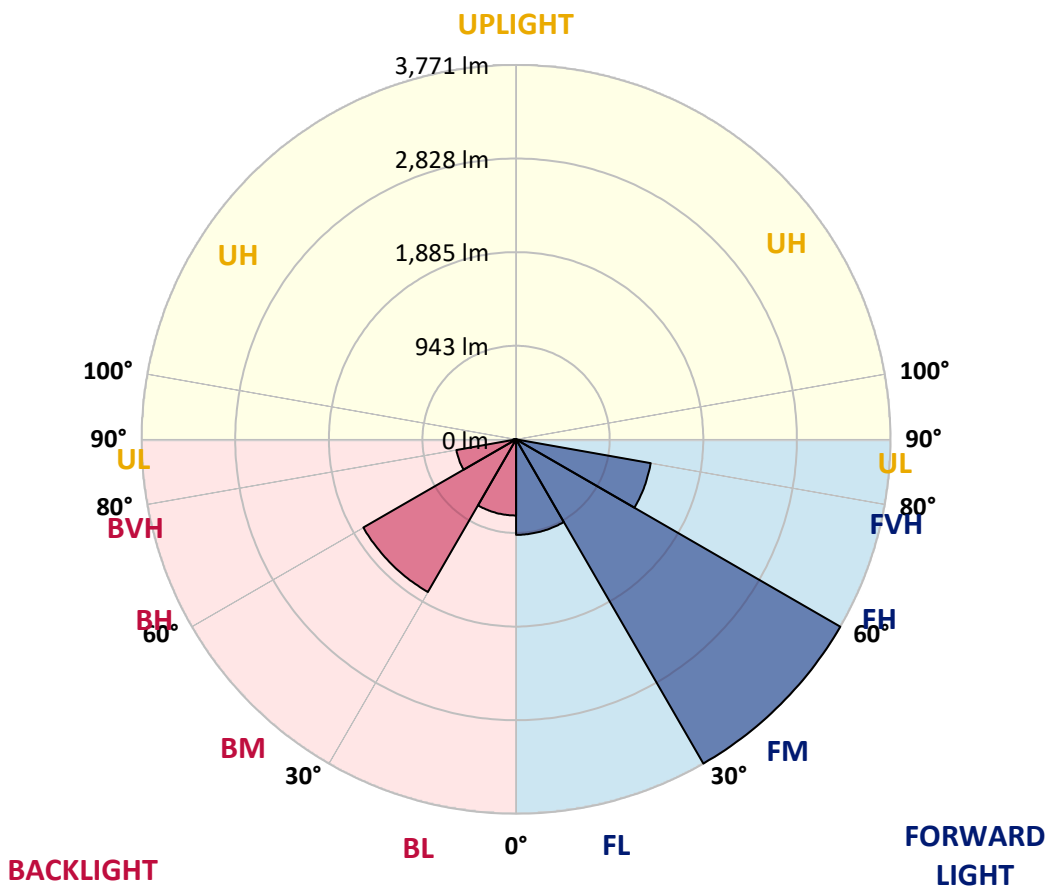
CATALOG NUMBER: GWS-SA2F-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.5	10.3			
FM (30°-60°)	3770.8	40.5			
FH (60°-80°)	1377.0	14.8			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	767.0	8.2	B2/1000		
BM (30°-60°)	1775.7	19.1	B2/2500		
BH (60°-80°)	610.4	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°	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	1984.7	1980.5	1976.2	1942.8	1934.2	1910.2	1893.1	1871.7	1840.8	1823.7	1809.1
5°	2108.9	2102.1	2079.0	2010.4	1965.9	1917.1	1876.8	1832.3	1785.2	1754.3	1730.3
7.5°	2226.3	2224.6	2185.2	2072.1	2000.2	1929.9	1875.1	1810.0	1742.3	1696.1	1665.2
10°	2335.1	2322.2	2275.1	2127.8	2033.6	1953.0	1893.9	1822.0	1743.2	1680.6	1639.5
12.5°	2431.0	2414.8	2349.7	2179.2	2062.7	1963.3	1899.1	1840.0	1787.7	1735.5	1688.4
15°	2509.8	2490.1	2424.2	2227.2	2088.4	1957.3	1867.4	1821.1	1839.1	1862.2	1810.0
17.5°	2583.5	2562.9	2482.4	2262.3	2096.1	1920.5	1789.4	1769.7	1860.5	1965.9	1941.9
20°	2645.2	2622.1	2528.7	2279.4	2082.4	1850.3	1688.4	1722.6	1842.5	1968.5	2007.0
22.5°	2712.0	2693.1	2580.9	2304.3	2065.3	1753.5	1603.6	1687.5	1811.7	1922.2	1980.5
25°	2819.1	2795.9	2662.3	2347.9	2056.7	1662.7	1542.7	1653.2	1768.9	1869.1	1914.5
27.5°	2974.1	2931.3	2773.7	2424.2	2066.1	1577.0	1504.2	1611.3	1719.2	1804.9	1841.7
30°	3142.9	3091.5	2897.0	2503.0	2079.8	1524.7	1483.6	1563.3	1643.0	1728.6	1768.9
32.5°	3342.5	3297.1	3028.9	2562.1	2050.7	1500.8	1468.2	1511.0	1574.4	1643.0	1676.4
35°	3580.6	3499.2	3172.8	2610.1	1956.5	1465.6	1454.5	1453.6	1487.1	1553.9	1591.6
37.5°	3836.7	3749.3	3350.2	2661.5	1810.0	1410.0	1422.0	1386.0	1416.8	1469.9	1512.8
40°	4046.6	3954.9	3529.2	2731.7	1626.7	1322.6	1350.0	1311.5	1330.3	1385.1	1433.1
42.5°	4252.2	4154.5	3696.2	2811.4	1449.4	1236.9	1250.6	1236.1	1242.1	1299.5	1366.3
45°	4522.0	4412.3	3901.8	2867.9	1290.0	1169.3	1156.4	1131.6	1163.3	1237.8	1308.9
47.5°	4972.6	4841.5	4238.5	2904.7	1174.4	1130.7	1071.6	1057.0	1096.4	1179.5	1253.2
50°	5499.4	5386.3	4776.4	2903.0	1087.9	1098.2	989.4	976.5	1041.6	1125.6	1203.5
52.5°	5931.1	5816.3	5236.4	2817.4	1016.8	1028.8	941.4	905.4	994.5	1072.5	1150.4
55°	6279.7	6150.4	5448.0	2459.3	926.8	918.3	889.2	823.2	935.4	1019.4	1092.2
57.5°	6092.1	5937.9	5191.9	1870.0	834.3	780.4	799.2	750.4	854.9	960.2	1030.5
60°	5107.9	4969.1	4217.9	995.4	734.1	651.9	691.3	699.0	766.7	889.2	961.1
62.5°	3508.6	3407.6	2858.5	603.9	579.1	523.4	585.1	640.7	691.3	794.9	857.5
65°	1716.6	1686.6	1429.7	387.2	405.2	423.2	484.8	552.5	627.0	717.8	783.8
67.5°	472.8	476.3	433.4	302.4	319.5	369.2	418.0	472.0	546.5	630.5	697.3
70°	208.2	211.6	218.4	233.0	265.5	310.9	361.5	417.2	485.7	555.9	620.2
72.5°	144.8	148.2	158.5	177.3	206.4	249.3	297.2	350.3	421.4	480.6	533.7
75°	89.1	91.7	101.1	117.4	137.1	169.6	216.7	265.5	328.1	382.0	429.2
77.5°	47.1	45.4	51.4	62.5	79.7	96.8	128.5	159.3	203.9	247.6	287.0
80°	25.7	24.8	28.3	34.3	39.4	53.1	74.5	95.1	120.8	145.6	167.0
82.5°	11.1	10.3	11.1	14.6	18.0	25.7	37.7	52.3	66.8	83.9	97.7
85°	0.0	0.0	0.0	0.9	4.3	6.9	12.8	18.8	27.4	37.7	46.3
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°	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	1800.6	1779.2	1777.4	1760.3	1762.0	1762.9	1745.8	1738.9	1744.9	1751.7	1748.3
5°	1721.8	1699.5	1690.1	1673.8	1672.1	1664.4	1657.5	1649.0	1655.0	1660.9	1664.4
7.5°	1653.2	1638.7	1632.7	1628.4	1630.1	1626.7	1613.0	1605.3	1604.4	1607.0	1610.4
10°	1631.0	1619.0	1626.7	1638.7	1647.2	1653.2	1638.7	1625.8	1613.8	1608.7	1608.7
12.5°	1678.9	1663.5	1678.9	1691.8	1708.9	1713.2	1696.9	1683.2	1678.9	1684.1	1694.4
15°	1785.2	1749.2	1748.3	1756.0	1769.7	1776.6	1761.2	1754.3	1754.3	1786.9	1812.6
17.5°	1891.4	1832.3	1807.4	1803.1	1811.7	1814.3	1801.4	1795.4	1810.9	1874.2	1922.2
20°	1965.9	1893.9	1840.0	1829.7	1832.3	1833.1	1822.8	1818.6	1840.8	1917.9	1958.2
22.5°	1958.2	1905.1	1839.1	1826.3	1830.6	1828.8	1819.4	1817.7	1835.7	1902.5	1921.4
25°	1905.1	1864.0	1808.3	1799.7	1806.6	1805.7	1796.3	1792.0	1799.7	1844.3	1846.0
27.5°	1844.3	1808.3	1760.3	1757.7	1768.9	1774.9	1758.6	1745.8	1743.2	1773.2	1766.3
30°	1771.4	1744.9	1706.3	1708.1	1728.6	1732.0	1712.3	1693.5	1688.4	1704.6	1695.2
32.5°	1684.9	1676.4	1655.8	1660.1	1679.8	1686.6	1666.1	1646.4	1640.4	1645.5	1625.8
35°	1611.3	1607.8	1609.6	1617.3	1634.4	1639.5	1622.4	1607.0	1598.4	1580.4	1554.7
37.5°	1535.0	1544.4	1569.3	1583.9	1593.3	1591.6	1582.1	1571.0	1557.3	1523.9	1492.2
40°	1463.9	1487.9	1532.5	1548.7	1552.2	1553.0	1546.2	1536.7	1519.6	1475.1	1439.1
42.5°	1409.1	1435.7	1494.8	1519.6	1521.3	1523.0	1516.2	1508.5	1484.5	1425.4	1390.3
45°	1351.7	1386.8	1456.2	1486.2	1484.5	1483.6	1477.6	1474.2	1445.9	1377.4	1338.9
47.5°	1302.9	1344.0	1418.5	1444.2	1443.4	1442.5	1438.2	1438.2	1410.0	1335.4	1291.8
50°	1254.9	1302.0	1380.0	1401.4	1403.1	1401.4	1399.7	1402.3	1368.8	1289.2	1246.4
52.5°	1202.7	1255.8	1337.2	1356.9	1367.1	1371.4	1371.4	1365.4	1326.0	1242.9	1195.8
55°	1145.3	1195.8	1290.0	1316.6	1325.2	1332.9	1332.9	1320.9	1284.0	1200.1	1149.6
57.5°	1074.2	1118.7	1193.2	1219.8	1240.4	1245.5	1245.5	1225.8	1195.8	1115.3	1074.2
60°	997.1	1035.6	1086.2	1114.4	1129.9	1119.6	1127.3	1122.1	1098.2	1023.6	989.4
62.5°	894.3	933.7	989.4	1018.5	1025.3	1015.1	1025.3	1024.5	991.9	925.1	884.0
65°	820.6	859.2	914.0	951.7	962.8	960.2	967.1	956.8	916.6	853.2	813.8
67.5°	733.2	774.4	837.8	879.7	902.9	905.4	914.8	893.4	852.3	782.9	733.2
70°	650.2	685.3	734.1	773.5	806.1	822.3	824.0	793.2	741.8	684.4	648.4
72.5°	562.8	598.8	657.9	700.7	741.8	760.7	760.7	723.0	667.3	603.9	565.4
75°	456.6	490.0	543.9	590.2	637.3	661.3	660.4	627.9	566.2	506.3	466.0
77.5°	309.2	334.1	368.3	403.5	410.3	429.2	438.6	397.5	363.2	330.6	294.7
80°	179.9	195.3	214.1	233.9	238.1	244.1	228.7	213.3	195.3	173.9	157.6
82.5°	105.4	115.6	125.1	140.5	143.1	144.8	131.1	124.2	109.6	96.8	86.5
85°	51.4	54.8	63.4	71.1	67.7	66.0	60.0	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	1759.5	1774.0	1792.0	1816.0	1843.4	1872.5	1900.8	1922.2	1943.6	1975.3	1970.2
5°	1669.5	1694.4	1722.6	1759.5	1804.0	1854.5	1911.1	1967.6	2028.4	2079.8	2102.1
7.5°	1617.3	1644.7	1678.1	1726.0	1783.4	1845.1	1924.8	2016.4	2114.9	2182.6	2224.6
10°	1617.3	1652.4	1696.1	1742.3	1792.9	1856.3	1954.8	2069.5	2196.3	2285.4	2334.2
12.5°	1710.6	1745.8	1755.2	1753.5	1781.7	1852.0	1978.7	2125.2	2276.8	2371.1	2431.0
15°	1856.3	1868.2	1797.1	1732.0	1736.3	1821.1	1989.9	2169.8	2346.2	2459.3	2524.4
17.5°	1953.9	1922.2	1795.4	1681.5	1657.5	1768.9	1989.9	2212.6	2419.9	2547.5	2608.3
20°	1961.6	1882.8	1751.7	1632.7	1571.0	1699.5	1976.2	2245.1	2491.0	2632.3	2697.4
22.5°	1893.9	1816.0	1705.5	1590.7	1499.9	1615.5	1953.9	2270.0	2551.8	2712.0	2792.5
25°	1816.8	1751.7	1658.4	1547.9	1451.1	1530.7	1933.3	2312.0	2636.6	2819.9	2901.3
27.5°	1741.5	1686.6	1601.8	1511.9	1423.7	1457.1	1920.5	2373.6	2737.7	2973.3	3043.5
30°	1667.8	1618.1	1541.0	1477.6	1409.1	1409.1	1909.4	2444.7	2871.3	3145.4	3215.7
32.5°	1593.3	1546.2	1483.6	1444.2	1400.5	1390.3	1878.5	2511.6	3009.2	3333.9	3405.8
35°	1523.9	1476.8	1428.8	1412.5	1396.3	1375.7	1802.3	2563.8	3143.7	3554.0	3615.7
37.5°	1458.8	1413.4	1377.4	1373.1	1374.8	1336.3	1682.4	2607.5	3311.6	3779.3	3811.9
40°	1402.3	1351.7	1323.4	1322.6	1331.2	1272.9	1530.7	2670.0	3503.5	3970.3	3956.6
42.5°	1351.7	1298.6	1264.3	1272.1	1266.9	1209.5	1382.6	2727.4	3670.5	4149.4	4122.0
45°	1302.0	1250.6	1202.7	1213.8	1207.8	1170.1	1256.6	2769.4	3855.6	4364.4	4367.8
47.5°	1254.1	1203.5	1155.6	1141.8	1141.0	1158.1	1159.8	2783.1	4157.1	4710.4	4632.5
50°	1209.5	1159.0	1109.3	1063.0	1081.0	1134.1	1087.9	2772.8	4608.5	5092.5	4874.9
52.5°	1163.3	1115.3	1060.5	977.4	1024.5	1076.7	1023.6	2736.0	4884.3	5430.0	5299.8
55°	1110.2	1064.8	990.2	889.2	946.5	957.7	957.7	2379.6	5001.7	5764.1	5844.6
57.5°	1039.1	979.1	860.9	779.5	830.9	788.1	887.4	1665.2	4808.1	5658.7	5971.4
60°	958.5	894.3	769.2	711.0	726.4	651.0	756.4	1044.2	3984.9	4814.9	5356.3
62.5°	852.3	793.2	689.6	644.2	612.5	531.1	609.0	660.4	2731.7	3575.4	3944.6
65°	781.2	716.1	623.6	563.6	498.5	427.4	404.3	433.4	1469.1	2001.0	2250.3
67.5°	697.3	633.0	545.7	470.3	418.0	366.6	326.4	316.1	503.7	666.4	721.3
70°	617.6	555.9	483.1	412.9	360.6	310.1	270.7	242.4	233.0	231.3	227.9
72.5°	536.2	478.8	418.0	352.9	295.5	249.3	214.1	181.6	167.9	163.6	159.3
75°	439.4	394.0	333.2	263.0	216.7	173.9	146.5	125.1	113.1	108.8	103.6
77.5°	282.7	262.1	209.0	169.6	131.1	103.6	89.1	75.4	67.7	66.0	61.7
80°	150.8	140.5	115.6	97.7	78.0	63.4	55.7	48.0	43.7	42.0	40.3
82.5°	83.9	76.2	64.2	56.5	45.4	38.5	34.3	30.8	28.3	27.4	26.6
85°	37.7	32.6	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: P633585

CATALOG NUMBER: GWS-SA2F-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	2001.9	2027.6	2030.1	2038.7	2027.6	2025.0	2007.0	1996.7	1987.3	1984.7
5°	2157.8	2209.2	2229.7	2244.3	2230.6	2223.7	2184.3	2143.2	2120.1	2108.9
7.5°	2318.0	2395.1	2435.3	2453.3	2455.0	2424.2	2356.5	2279.4	2240.9	2226.3
10°	2461.0	2556.1	2609.2	2643.5	2631.5	2593.8	2501.3	2396.8	2347.9	2335.1
12.5°	2567.2	2658.0	2699.1	2721.4	2720.6	2700.0	2612.6	2499.6	2443.9	2431.0
15°	2635.8	2689.7	2692.3	2697.4	2712.0	2739.4	2694.0	2589.5	2527.8	2509.8
17.5°	2689.7	2668.3	2628.0	2614.3	2646.9	2723.1	2750.5	2665.7	2598.9	2583.5
20°	2724.0	2616.1	2545.0	2518.4	2556.1	2680.3	2784.8	2734.3	2664.9	2645.2
22.5°	2750.5	2567.2	2452.4	2434.5	2473.9	2634.0	2819.9	2815.6	2739.4	2712.0
25°	2792.5	2534.7	2387.3	2374.5	2411.3	2611.8	2867.0	2926.1	2858.5	2819.1
27.5°	2858.5	2531.3	2353.9	2349.7	2400.2	2631.5	2934.7	3088.0	3003.2	2974.1
30°	2950.1	2563.8	2361.6	2370.2	2431.9	2702.6	3040.1	3273.1	3188.3	3142.9
32.5°	3082.0	2651.2	2479.0	2515.8	2561.2	2816.5	3194.3	3473.5	3409.3	3342.5
35°	3255.9	2891.0	2825.9	2982.7	2939.8	3065.8	3380.1	3716.8	3638.8	3580.6
37.5°	3488.1	3382.7	3442.7	3658.5	3554.9	3536.9	3607.1	3937.8	3895.0	3836.7
40°	3813.6	3835.0	3945.5	4229.0	4079.1	3963.5	3885.5	4104.0	4118.5	4046.6
42.5°	4029.4	4128.0	4394.4	4716.4	4510.0	4233.3	4118.5	4316.4	4317.3	4252.2
45°	4110.0	4367.8	4924.6	5295.5	4950.3	4387.5	4247.0	4605.1	4596.5	4522.0
47.5°	4080.8	4570.0	5475.4	6042.5	5515.6	4497.1	4229.0	5016.2	5085.6	4972.6
50°	4020.0	4773.0	6118.7	6957.3	6209.5	4613.6	4201.6	5472.0	5586.7	5499.4
52.5°	4081.7	4999.1	6879.4	7903.0	7079.8	4799.5	4386.6	6057.0	6036.5	5931.1
55°	4277.0	5266.4	7803.6	9091.1	8035.8	5113.9	4862.1	6614.7	6405.7	6279.7
57.5°	4267.6	5457.4	8614.0	10030.8	8867.5	5371.7	5027.4	6673.8	6251.5	6092.1
60°	3873.5	5370.0	8922.3	10625.3	9118.5	5229.5	4483.4	5961.1	5274.9	5107.9
62.5°	2891.0	4765.3	8324.4	9880.9	8408.4	4516.8	3371.6	4278.7	3790.5	3508.6
65°	1849.4	3727.9	6998.4	8004.9	6930.7	3454.7	2007.9	2294.0	1797.1	1716.6
67.5°	787.2	2631.5	5440.3	5350.3	5185.0	2238.3	775.2	645.9	481.4	472.8
70°	260.4	1790.3	3353.6	3568.6	3096.6	1541.9	256.1	216.7	215.9	208.2
72.5°	170.5	961.1	1887.9	2102.1	1992.5	887.4	155.0	144.8	148.2	144.8
75°	101.9	209.0	317.8	412.9	317.8	149.0	93.4	91.7	93.4	89.1
77.5°	60.0	58.2	56.5	56.5	55.7	51.4	47.1	45.4	46.3	47.1
80°	38.5	36.8	35.1	34.3	30.0	28.3	26.6	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)