

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: P636555

Luminaire Tested: GWS-SA4B-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636555  
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-SA4B-722-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

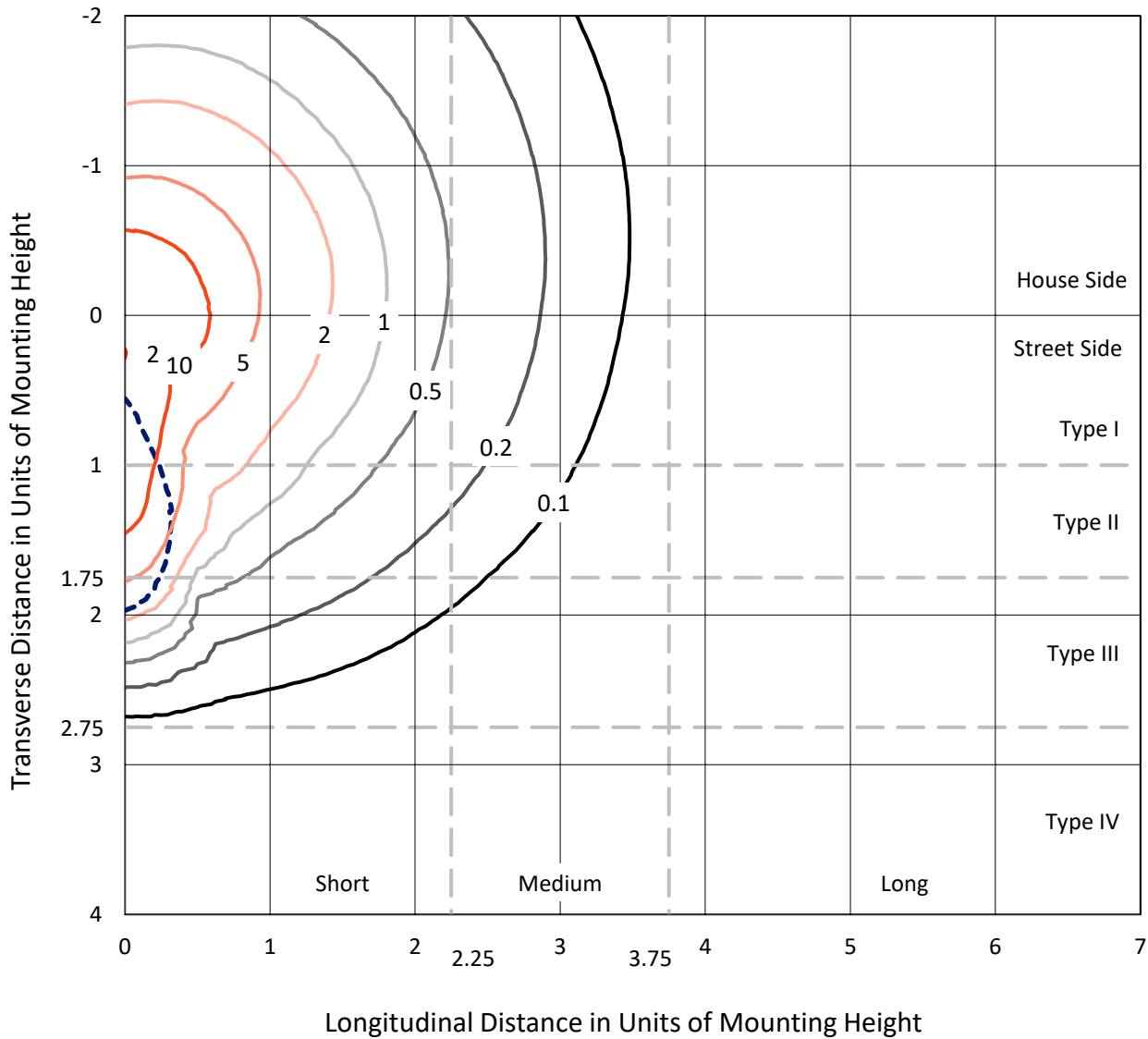
Lumens per Lamp: N/A  
Luminaire Lumens: 8298.8 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

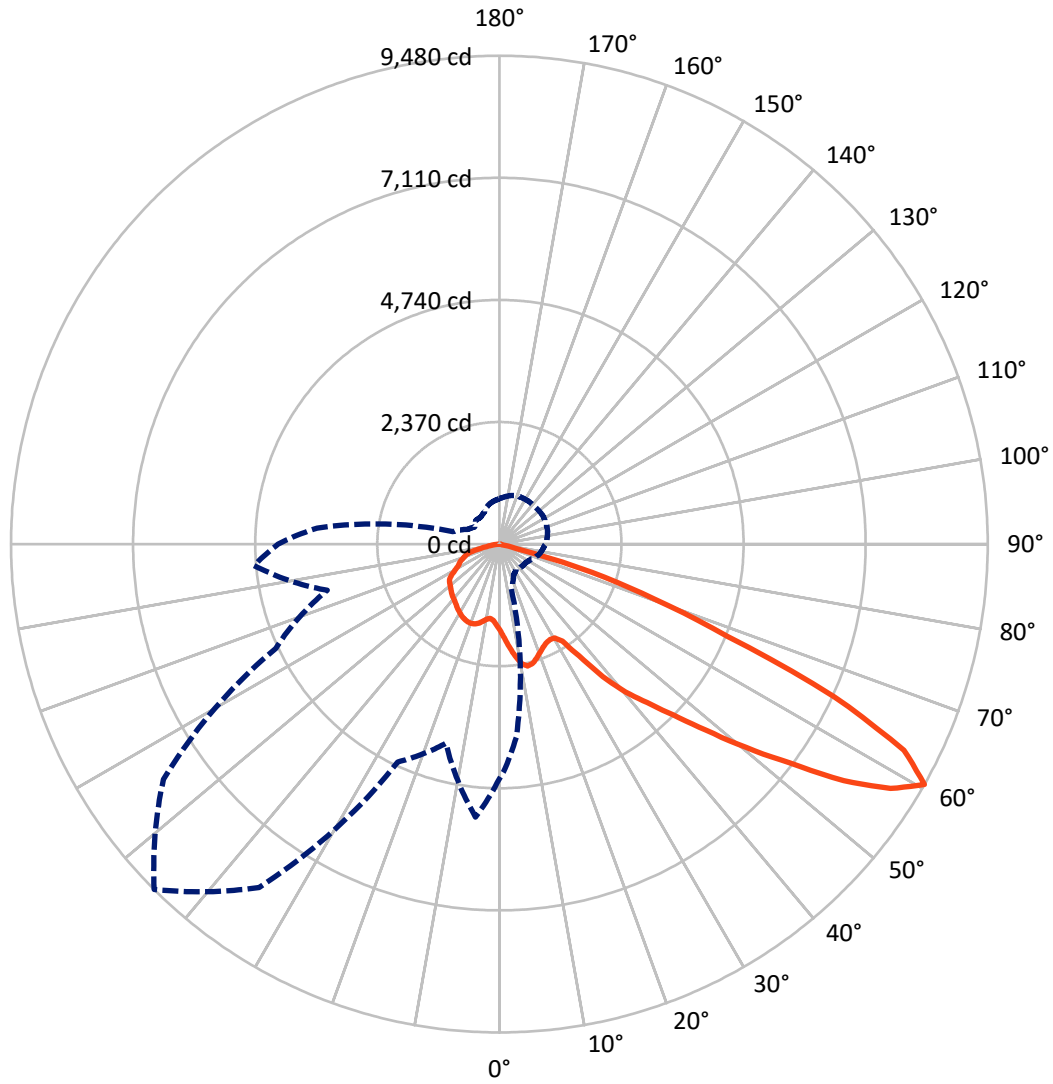
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 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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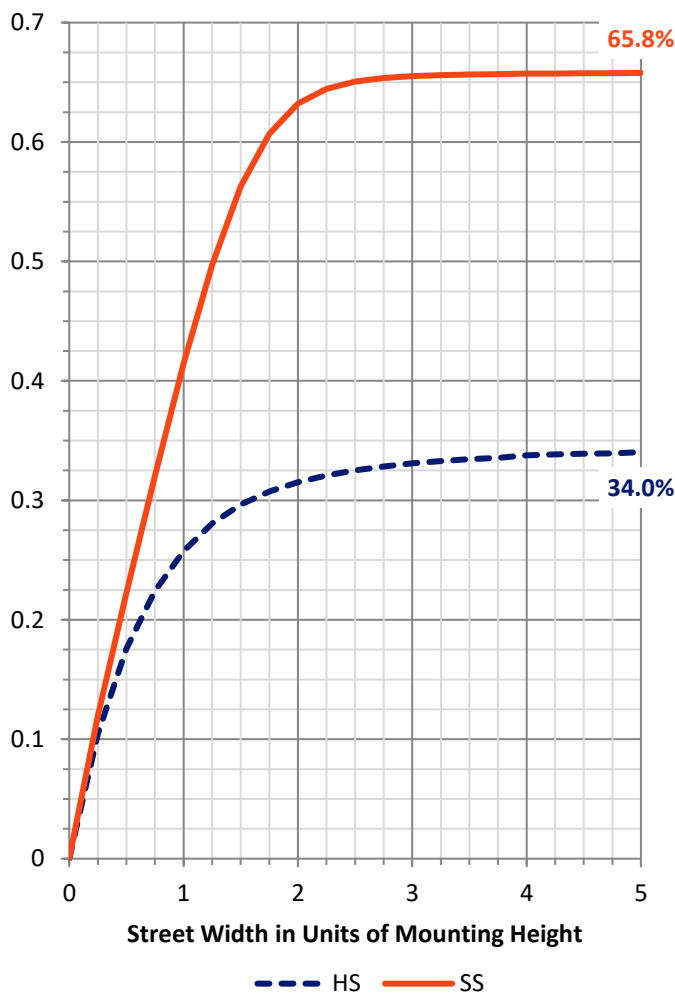
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2838.9	0.0	2838.9
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	5459.9	0.0	5459.9
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	8298.8	0.0	8298.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.5	2.0
10°-20°	524.5	6.3
20°-30°	854.2	10.3
30°-40°	1200.0	14.5
40°-50°	1642.1	19.8
50°-60°	2106.7	25.4
60°-70°	1418.6	17.1
70°-80°	354.6	4.3
80°-90°	34.6	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°	8298.8	100.0
0°-180°	8298.8	100.0

**Coefficient of Utilization**



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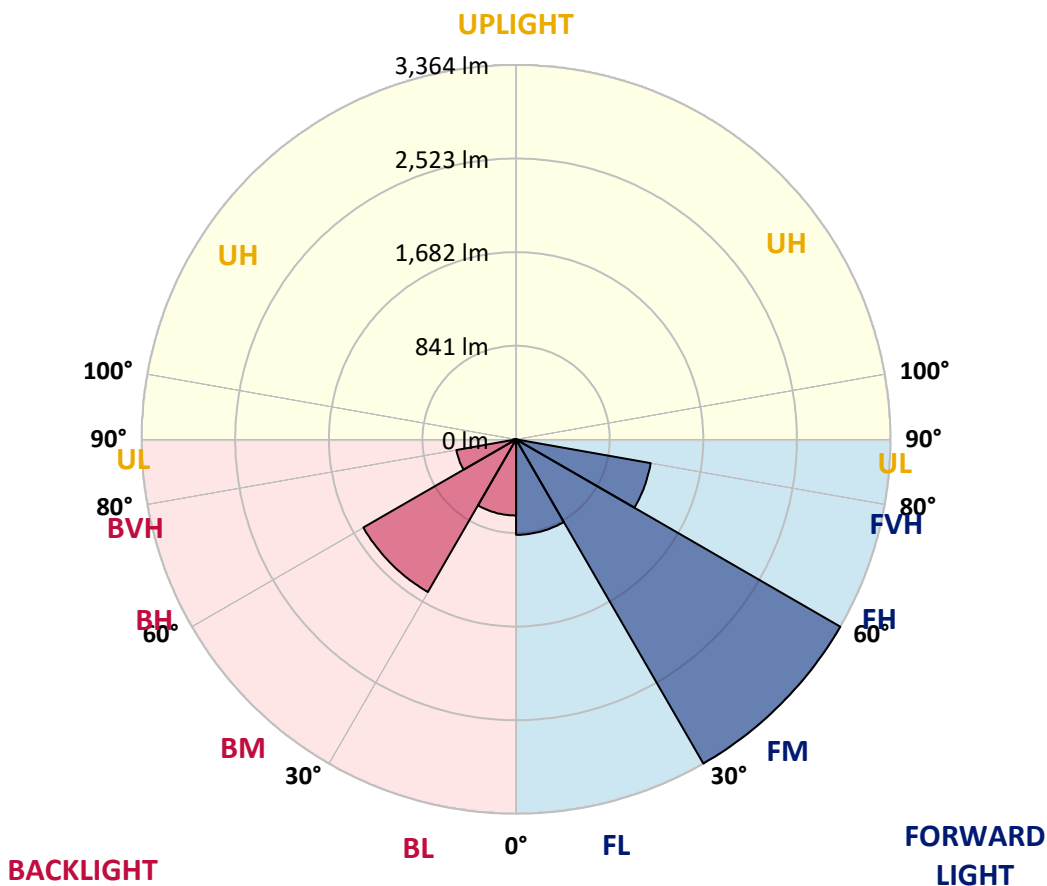
CATALOG NUMBER: GWS-SA4B-722-U-SLL-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.9	10.3			
FM (30°-60°)	3364.4	40.5			
FH (60°-80°)	1228.6	14.8			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	684.4	8.2	B2/1000		
BM (30°-60°)	1584.4	19.1	B2/2500		
BH (60°-80°)	544.6	6.6	B2/1000		G2/1000
BVH (80°-90°)	25.6	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°	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
2.5°	1770.8	1767.0	1763.2	1733.4	1725.8	1704.4	1689.1	1670.0	1642.4	1627.2	1614.2
5°	1881.7	1875.6	1854.9	1793.8	1754.0	1710.5	1674.5	1634.8	1592.8	1565.3	1543.9
7.5°	1986.4	1984.8	1949.7	1848.8	1784.6	1721.9	1673.0	1614.9	1554.6	1513.3	1485.8
10°	2083.4	2072.0	2029.9	1898.5	1814.4	1742.6	1689.8	1625.6	1555.3	1499.5	1462.8
12.5°	2169.0	2154.5	2096.4	1944.3	1840.4	1751.7	1694.4	1641.7	1595.1	1548.4	1506.4
15°	2239.3	2221.8	2162.9	1987.1	1863.3	1746.4	1666.1	1624.9	1640.9	1661.6	1614.9
17.5°	2305.1	2286.7	2214.9	2018.5	1870.2	1713.5	1596.6	1579.0	1660.0	1754.0	1732.6
20°	2360.1	2339.5	2256.2	2033.8	1858.0	1650.9	1506.4	1537.0	1644.0	1756.3	1790.7
22.5°	2419.7	2402.9	2302.8	2055.9	1842.7	1564.5	1430.7	1505.6	1616.5	1715.1	1767.0
25°	2515.3	2494.6	2375.4	2094.9	1835.0	1483.5	1376.5	1475.1	1578.2	1667.7	1708.2
27.5°	2653.6	2615.4	2474.7	2162.9	1843.5	1407.0	1342.1	1437.6	1533.9	1610.3	1643.2
30°	2804.2	2758.3	2584.8	2233.2	1855.7	1360.4	1323.7	1394.8	1465.9	1542.3	1578.2
32.5°	2982.2	2941.7	2702.5	2286.0	1829.7	1339.0	1310.0	1348.2	1404.8	1465.9	1495.7
35°	3194.7	3122.1	2830.9	2328.8	1745.6	1307.7	1297.8	1297.0	1326.8	1386.4	1420.0
37.5°	3423.2	3345.3	2989.1	2374.6	1614.9	1258.0	1268.7	1236.6	1264.1	1311.5	1349.7
40°	3610.5	3528.7	3148.8	2437.3	1451.4	1180.1	1204.5	1170.1	1186.9	1235.8	1278.6
42.5°	3793.9	3706.8	3297.9	2508.4	1293.2	1103.6	1115.9	1102.9	1108.2	1159.4	1219.0
45°	4034.6	3936.8	3481.3	2558.8	1151.0	1043.2	1031.8	1009.6	1037.9	1104.4	1167.8
47.5°	4436.7	4319.7	3781.7	2591.7	1047.8	1008.9	956.1	943.1	978.3	1052.4	1118.1
50°	4906.7	4805.8	4261.6	2590.2	970.6	979.8	882.7	871.3	929.4	1004.3	1073.8
52.5°	5291.9	5189.5	4672.1	2513.7	907.2	917.9	839.9	807.8	887.3	956.9	1026.4
55°	5603.0	5487.6	4860.8	2194.3	827.0	819.3	793.3	734.5	834.6	909.5	974.5
57.5°	5435.6	5298.0	4632.3	1668.4	744.4	696.3	713.1	669.5	762.8	856.8	919.4
60°	4557.4	4433.6	3763.3	888.1	655.0	581.6	616.8	623.7	684.0	793.3	857.5
62.5°	3130.5	3040.3	2550.4	538.8	516.7	467.0	522.0	571.7	616.8	709.3	765.0
65°	1531.6	1504.9	1275.6	345.5	361.5	377.6	432.6	493.0	559.5	640.5	699.3
67.5°	421.9	424.9	386.7	269.8	285.1	329.4	373.0	421.1	487.6	562.5	622.1
70°	185.7	188.8	194.9	207.9	236.9	277.4	322.5	372.2	433.3	496.0	553.3
72.5°	129.2	132.2	141.4	158.2	184.2	222.4	265.2	312.6	376.0	428.8	476.1
75°	79.5	81.8	90.2	104.7	122.3	151.3	193.4	236.9	292.7	340.9	382.9
77.5°	42.0	40.5	45.9	55.8	71.1	86.4	114.6	142.2	181.9	220.9	256.0
80°	22.9	22.2	25.2	30.6	35.2	47.4	66.5	84.8	107.8	129.9	149.0
82.5°	9.9	9.2	9.9	13.0	16.0	22.9	33.6	46.6	59.6	74.9	87.1
85°	0.0	0.0	0.0	0.8	3.8	6.1	11.5	16.8	24.5	33.6	41.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.9
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°	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
2.5°	1606.5	1587.4	1585.9	1570.6	1572.1	1572.9	1557.6	1551.5	1556.8	1563.0	1559.9
5°	1536.2	1516.3	1507.9	1493.4	1491.9	1485.0	1478.9	1471.2	1476.6	1481.9	1485.0
7.5°	1475.1	1462.1	1456.7	1452.9	1454.4	1451.4	1439.1	1432.3	1431.5	1433.8	1436.9
10°	1455.2	1444.5	1451.4	1462.1	1469.7	1475.1	1462.1	1450.6	1439.9	1435.3	1435.3
12.5°	1498.0	1484.2	1498.0	1509.5	1524.7	1528.6	1514.0	1501.8	1498.0	1502.6	1511.8
15°	1592.8	1560.7	1559.9	1566.8	1579.0	1585.1	1571.4	1565.3	1565.3	1594.3	1617.2
17.5°	1687.5	1634.8	1612.6	1608.8	1616.5	1618.8	1607.3	1601.9	1615.7	1672.3	1715.1
20°	1754.0	1689.8	1641.7	1632.5	1634.8	1635.6	1626.4	1622.6	1642.4	1711.2	1747.2
22.5°	1747.2	1699.8	1640.9	1629.5	1633.3	1631.7	1623.3	1621.8	1637.9	1697.5	1714.3
25°	1699.8	1663.1	1613.4	1605.8	1611.9	1611.1	1602.7	1598.9	1605.8	1645.5	1647.0
27.5°	1645.5	1613.4	1570.6	1568.3	1578.2	1583.6	1569.1	1557.6	1555.3	1582.1	1576.0
30°	1580.5	1556.8	1522.5	1524.0	1542.3	1545.4	1527.8	1511.0	1506.4	1520.9	1512.5
32.5°	1503.3	1495.7	1477.4	1481.2	1498.8	1504.9	1486.5	1469.0	1463.6	1468.2	1450.6
35°	1437.6	1434.6	1436.1	1443.0	1458.3	1462.8	1447.6	1433.8	1426.2	1410.1	1387.2
37.5°	1369.6	1378.0	1400.2	1413.2	1421.6	1420.0	1411.6	1401.7	1389.5	1359.7	1331.4
40°	1306.2	1327.6	1367.3	1381.8	1384.9	1385.6	1379.5	1371.1	1355.8	1316.1	1284.0
42.5°	1257.2	1280.9	1333.7	1355.8	1357.4	1358.9	1352.8	1345.9	1324.5	1271.8	1240.4
45°	1206.0	1237.4	1299.3	1326.0	1324.5	1323.7	1318.4	1315.3	1290.1	1229.0	1194.6
47.5°	1162.5	1199.2	1265.7	1288.6	1287.8	1287.1	1283.2	1283.2	1258.0	1191.5	1152.5
50°	1119.7	1161.7	1231.3	1250.4	1251.9	1250.4	1248.8	1251.1	1221.3	1150.2	1112.0
52.5°	1073.1	1120.4	1193.0	1210.6	1219.8	1223.6	1223.6	1218.3	1183.1	1109.0	1066.9
55°	1021.8	1066.9	1151.0	1174.7	1182.3	1189.2	1189.2	1178.5	1145.7	1070.8	1025.7
57.5°	958.4	998.2	1064.6	1088.3	1106.7	1111.3	1111.3	1093.7	1066.9	995.1	958.4
60°	889.6	924.0	969.1	994.3	1008.1	998.9	1005.8	1001.2	979.8	913.3	882.7
62.5°	797.9	833.1	882.7	908.7	914.8	905.7	914.8	914.1	885.0	825.4	788.7
65°	732.2	766.6	815.5	849.1	859.1	856.8	862.9	853.7	817.8	761.2	726.1
67.5°	654.2	690.9	747.5	784.9	805.6	807.8	816.3	797.1	760.5	698.6	654.2
70°	580.1	611.4	655.0	690.1	719.2	733.7	735.2	707.7	661.9	610.7	578.6
72.5°	502.1	534.2	587.0	625.2	661.9	678.7	678.7	645.1	595.4	538.8	504.4
75°	407.4	437.2	485.3	526.6	568.6	590.0	589.3	560.2	505.2	451.7	415.8
77.5°	275.9	298.1	328.6	360.0	366.1	382.9	391.3	354.6	324.1	295.0	262.9
80°	160.5	174.3	191.1	208.6	212.5	217.8	204.1	190.3	174.3	155.1	140.6
82.5°	94.0	103.2	111.6	125.3	127.6	129.2	116.9	110.8	97.8	86.4	77.2
85°	45.9	48.9	56.6	63.4	60.4	58.8	53.5	47.4	42.0	37.4	32.9
87.5°	9.2	9.2	13.8	13.0	10.7	9.2	5.3	6.9	1.5	1.5	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-SA4B-722-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
2.5°	1569.8	1582.8	1598.9	1620.3	1644.7	1670.7	1695.9	1715.1	1734.2	1762.4	1757.9
5°	1489.6	1511.8	1537.0	1569.8	1609.6	1654.7	1705.1	1755.6	1809.8	1855.7	1875.6
7.5°	1443.0	1467.4	1497.2	1540.0	1591.2	1646.3	1717.3	1799.1	1887.0	1947.4	1984.8
10°	1443.0	1474.3	1513.3	1554.6	1599.6	1656.2	1744.1	1846.5	1959.6	2039.1	2082.7
12.5°	1526.3	1557.6	1566.0	1564.5	1589.7	1652.4	1765.5	1896.2	2031.5	2115.5	2169.0
15°	1656.2	1666.9	1603.5	1545.4	1549.2	1624.9	1775.4	1935.9	2093.4	2194.3	2252.3
17.5°	1743.3	1715.1	1601.9	1500.3	1478.9	1578.2	1775.4	1974.1	2159.1	2273.0	2327.2
20°	1750.2	1679.9	1563.0	1456.7	1401.7	1516.3	1763.2	2003.2	2222.5	2348.6	2406.7
22.5°	1689.8	1620.3	1521.7	1419.3	1338.3	1441.4	1743.3	2025.3	2276.8	2419.7	2491.6
25°	1621.0	1563.0	1479.7	1381.1	1294.7	1365.8	1725.0	2062.8	2352.5	2516.0	2588.6
27.5°	1553.8	1504.9	1429.2	1349.0	1270.2	1300.0	1713.5	2117.8	2442.6	2652.8	2715.5
30°	1488.1	1443.7	1374.9	1318.4	1257.2	1257.2	1703.6	2181.3	2561.9	2806.4	2869.1
32.5°	1421.6	1379.5	1323.7	1288.6	1249.6	1240.4	1676.1	2240.9	2684.9	2974.6	3038.8
35°	1359.7	1317.6	1274.8	1260.3	1245.8	1227.4	1608.1	2287.5	2804.9	3171.0	3226.0
37.5°	1301.6	1261.1	1229.0	1225.1	1226.7	1192.3	1501.1	2326.5	2954.7	3372.0	3401.1
40°	1251.1	1206.0	1180.8	1180.1	1187.7	1135.7	1365.8	2382.3	3125.9	3542.5	3530.2
42.5°	1206.0	1158.7	1128.1	1135.0	1130.4	1079.2	1233.6	2433.5	3275.0	3702.2	3677.7
45°	1161.7	1115.9	1073.1	1083.0	1077.6	1044.0	1121.2	2470.9	3440.0	3894.0	3897.1
47.5°	1118.9	1073.8	1031.0	1018.8	1018.0	1033.3	1034.8	2483.2	3709.1	4202.8	4133.2
50°	1079.2	1034.1	989.7	948.5	964.5	1011.9	970.6	2474.0	4111.8	4543.7	4349.5
52.5°	1037.9	995.1	946.2	872.0	914.1	960.7	913.3	2441.1	4357.9	4844.8	4728.6
55°	990.5	950.0	883.5	793.3	844.5	854.5	854.5	2123.2	4462.6	5142.9	5214.7
57.5°	927.1	873.6	768.1	695.5	741.4	703.1	791.8	1485.8	4289.9	5048.9	5327.8
60°	855.2	797.9	686.3	634.4	648.1	580.9	674.9	931.7	3555.4	4296.0	4779.1
62.5°	760.5	707.7	615.2	574.7	546.5	473.9	543.4	589.3	2437.3	3190.1	3519.5
65°	697.0	638.9	556.4	502.9	444.8	381.4	360.7	386.7	1310.7	1785.4	2007.8
67.5°	622.1	564.8	486.8	419.6	373.0	327.1	291.2	282.0	449.4	594.6	643.5
70°	551.0	496.0	431.1	368.4	321.8	276.7	241.5	216.3	207.9	206.4	203.3
72.5°	478.4	427.2	373.0	314.9	263.7	222.4	191.1	162.0	149.8	146.0	142.2
75°	392.1	351.6	297.3	234.6	193.4	155.1	130.7	111.6	100.9	97.1	92.5
77.5°	252.2	233.9	186.5	151.3	116.9	92.5	79.5	67.3	60.4	58.8	55.0
80°	134.5	125.3	103.2	87.1	69.5	56.6	49.7	42.8	39.0	37.4	35.9
82.5°	74.9	68.0	57.3	50.4	40.5	34.4	30.6	27.5	25.2	24.5	23.7
85°	33.6	29.0	22.9	21.4	19.1	17.6	16.8	15.3	14.5	13.8	13.0
87.5°	1.5	3.1	3.8	3.1	3.1	4.6	5.3	5.3	4.6	4.6	3.8
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: P636555

CATALOG NUMBER: GWS-SA4B-722-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
2.5°	1786.1	1809.1	1811.4	1819.0	1809.1	1806.8	1790.7	1781.5	1773.1	1770.8
5°	1925.2	1971.1	1989.4	2002.4	1990.2	1984.1	1948.9	1912.2	1891.6	1881.7
7.5°	2068.1	2136.9	2172.9	2188.9	2190.4	2162.9	2102.5	2033.8	1999.4	1986.4
10°	2195.8	2280.6	2328.0	2358.6	2347.9	2314.2	2231.7	2138.5	2094.9	2083.4
12.5°	2290.6	2371.6	2408.3	2428.1	2427.4	2409.0	2331.1	2230.2	2180.5	2169.0
15°	2351.7	2399.8	2402.1	2406.7	2419.7	2444.2	2403.7	2310.4	2255.4	2239.3
17.5°	2399.8	2380.7	2344.8	2332.6	2361.6	2429.7	2454.1	2378.4	2318.8	2305.1
20°	2430.4	2334.1	2270.7	2247.0	2280.6	2391.4	2484.7	2439.6	2377.7	2360.1
22.5°	2454.1	2290.6	2188.1	2172.1	2207.2	2350.2	2516.0	2512.2	2444.2	2419.7
25°	2491.6	2261.5	2130.1	2118.6	2151.5	2330.3	2558.1	2610.8	2550.4	2515.3
27.5°	2550.4	2258.5	2100.2	2096.4	2141.5	2347.9	2618.4	2755.2	2679.6	2653.6
30°	2632.2	2287.5	2107.1	2114.8	2169.8	2411.3	2712.4	2920.3	2844.7	2804.2
32.5°	2749.9	2365.5	2211.8	2244.7	2285.2	2513.0	2850.0	3099.2	3041.8	2982.2
35°	2905.0	2579.5	2521.4	2661.2	2623.0	2735.4	3015.9	3316.2	3246.7	3194.7
37.5°	3112.2	3018.2	3071.7	3264.3	3171.8	3155.7	3218.4	3513.4	3475.2	3423.2
40°	3402.6	3421.7	3520.3	3773.3	3639.5	3536.3	3466.8	3661.7	3674.7	3610.5
42.5°	3595.2	3683.1	3920.8	4208.1	4023.9	3777.1	3674.7	3851.2	3852.0	3793.9
45°	3667.0	3897.1	4393.9	4724.8	4416.8	3914.7	3789.3	4108.8	4101.1	4034.6
47.5°	3641.0	4077.4	4885.3	5391.3	4921.2	4012.5	3773.3	4475.6	4537.5	4436.7
50°	3586.8	4258.6	5459.3	6207.5	5540.3	4116.4	3748.8	4882.2	4984.7	4906.7
52.5°	3641.8	4460.4	6138.0	7051.3	6316.8	4282.3	3913.9	5404.2	5385.9	5291.9
55°	3816.1	4698.8	6962.6	8111.3	7169.7	4562.8	4338.1	5901.8	5715.3	5603.0
57.5°	3807.7	4869.2	7685.6	8949.8	7911.9	4792.8	4485.6	5954.5	5577.7	5435.6
60°	3456.1	4791.3	7960.8	9480.2	8135.8	4665.9	4000.3	5318.6	4706.5	4557.4
62.5°	2579.5	4251.7	7427.3	8816.0	7502.2	4030.1	3008.2	3817.6	3382.0	3130.5
65°	1650.1	3326.2	6244.2	7142.2	6183.8	3082.4	1791.5	2046.7	1603.5	1531.6
67.5°	702.4	2347.9	4854.0	4773.7	4626.2	1997.1	691.7	576.3	429.5	421.9
70°	232.3	1597.4	2992.2	3184.0	2762.9	1375.7	228.5	193.4	192.6	185.7
72.5°	152.1	857.5	1684.5	1875.6	1777.7	791.8	138.3	129.2	132.2	129.2
75°	90.9	186.5	283.5	368.4	283.5	133.0	83.3	81.8	83.3	79.5
77.5°	53.5	52.0	50.4	50.4	49.7	45.9	42.0	40.5	41.3	42.0
80°	34.4	32.9	31.3	30.6	26.7	25.2	23.7	22.2	22.2	22.9
82.5°	22.2	20.6	19.1	16.8	13.8	11.5	10.7	9.2	9.2	9.9
85°	11.5	9.2	6.9	5.3	3.1	1.5	0.0	0.0	0.0	0.0
87.5°	2.3	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)