

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: P636559

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-722-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

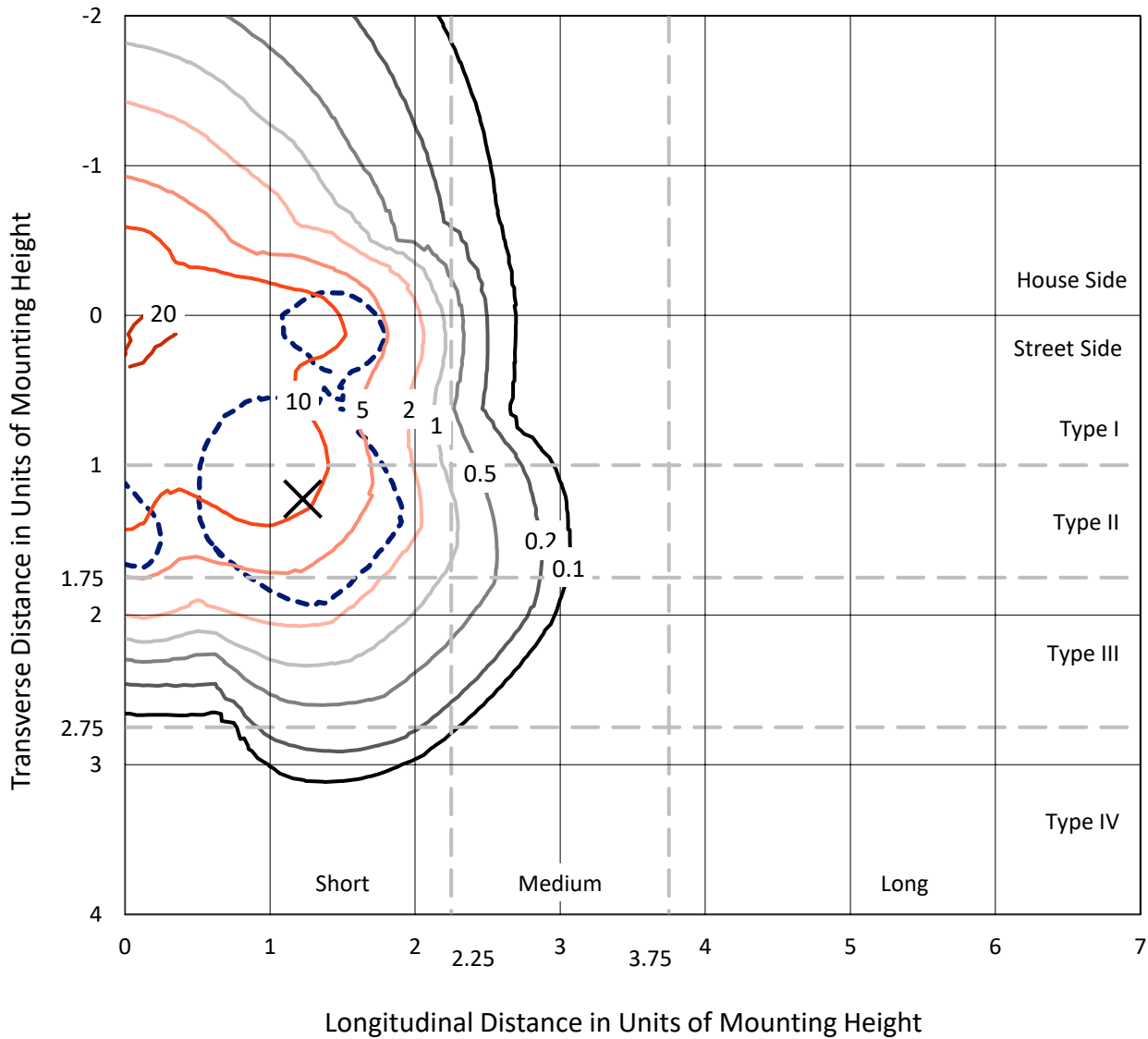
Lumens per Lamp: N/A  
Luminaire Lumens: 8341.6 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

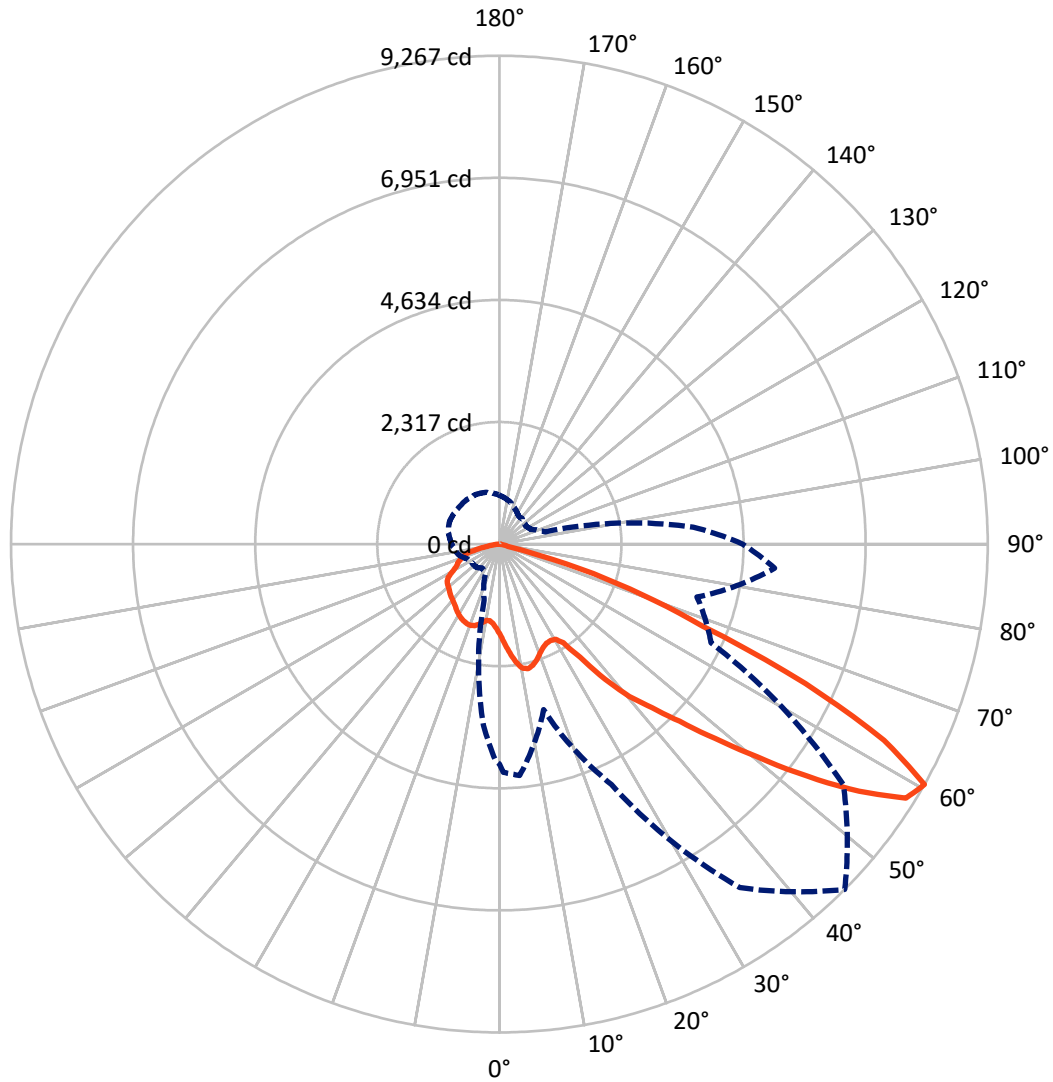
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2924.0	0.0	2924.0
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	5417.6	0.0	5417.6
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	8341.6	0.0	8341.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.2	2.0
10°-20°	528.3	6.3
20°-30°	858.2	10.3
30°-40°	1210.3	14.5
40°-50°	1672.6	20.1
50°-60°	2153.2	25.8
60°-70°	1364.3	16.4
70°-80°	350.1	4.2
80°-90°	37.4	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°	8341.6	100.0
0°-180°	8341.6	100.0

**Coefficient of Utilization**



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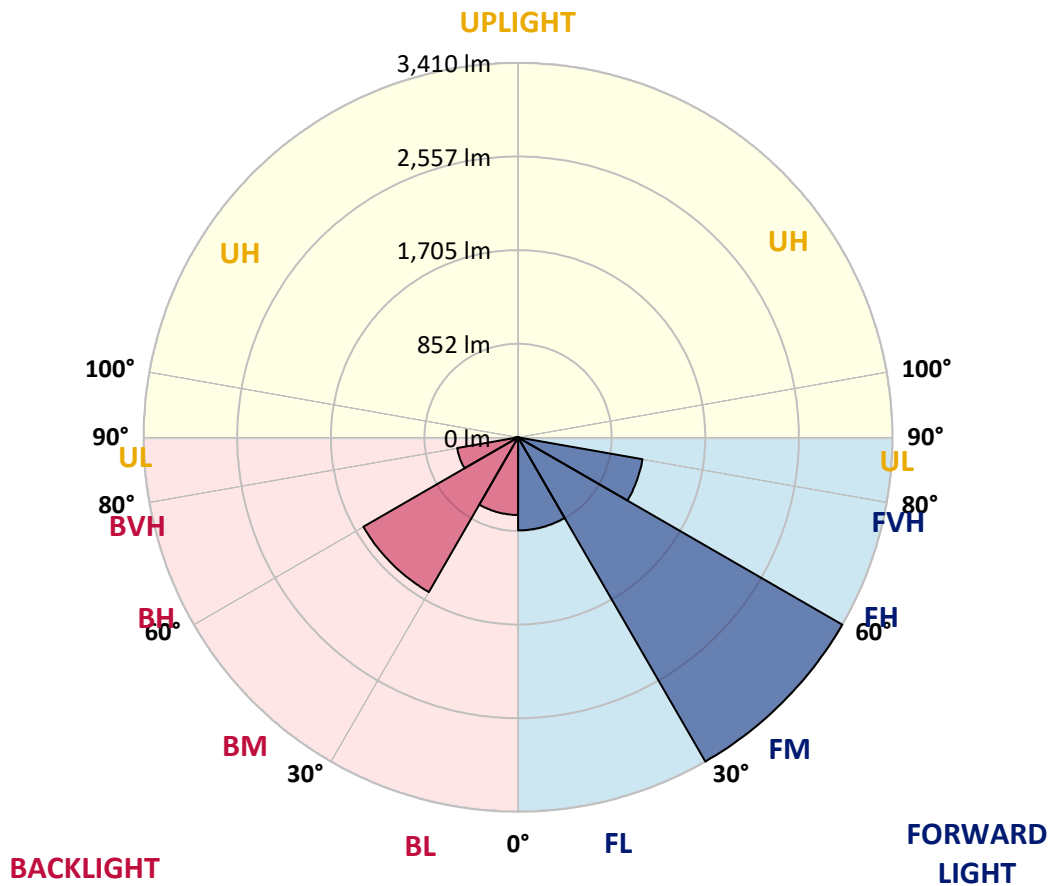
CATALOG NUMBER: GWS-SA4B-722-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.0	10.2			
FM (30°-60°)	3409.6	40.9			
FH (60°-80°)	1150.8	13.8			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	706.7	8.5	B2/1000		
BM (30°-60°)	1626.5	19.5	B2/2500		
BH (60°-80°)	563.5	6.8	B2/1000		G2/1000
BVH (80°-90°)	27.3	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°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
2.5°	1792.3	1804.6	1812.2	1826.7	1852.7	1867.2	1883.3	1865.7	1870.3	1868.0	1839.7
5°	1898.6	1913.1	1933.0	1975.8	2023.9	2050.7	2075.9	2072.1	2048.4	2008.6	1980.4
7.5°	1997.9	2014.8	2049.1	2118.7	2189.8	2231.1	2261.6	2241.8	2221.9	2159.2	2088.1
10°	2075.9	2085.8	2132.5	2225.7	2308.3	2354.9	2392.3	2387.7	2360.2	2289.9	2194.4
12.5°	2149.3	2156.2	2206.6	2299.8	2374.0	2394.6	2425.2	2435.1	2426.0	2373.2	2279.2
15°	2228.0	2241.0	2287.6	2358.7	2392.3	2370.9	2381.6	2409.1	2435.1	2435.1	2348.8
17.5°	2301.4	2312.8	2360.2	2390.8	2358.7	2302.1	2305.2	2340.4	2402.3	2467.2	2412.2
20°	2366.3	2377.0	2423.7	2394.6	2293.0	2210.4	2208.1	2250.9	2351.1	2487.9	2480.2
22.5°	2437.4	2452.7	2491.7	2397.7	2231.8	2127.1	2126.3	2170.7	2306.0	2508.5	2558.2
25°	2538.3	2562.0	2581.9	2424.4	2199.0	2072.8	2082.8	2124.8	2291.4	2542.1	2673.6
27.5°	2688.1	2707.2	2705.7	2480.2	2197.4	2050.7	2071.3	2120.2	2317.4	2601.8	2795.1
30°	2850.2	2860.1	2844.0	2558.2	2232.6	2064.4	2095.0	2153.1	2383.2	2700.3	2974.0
32.5°	3029.8	3042.0	3011.4	2675.1	2314.4	2166.1	2233.3	2261.6	2475.6	2842.5	3163.5
35°	3236.1	3259.8	3196.4	2829.5	2555.1	2536.8	2634.6	2597.9	2672.1	3010.7	3366.1
37.5°	3453.2	3454.0	3363.0	3058.1	3027.5	3058.8	3254.5	3139.8	3088.6	3197.9	3572.4
40°	3637.4	3632.8	3492.9	3366.1	3438.7	3563.3	3799.4	3623.6	3489.1	3449.4	3743.6
42.5°	3821.6	3804.8	3663.4	3561.7	3722.2	3978.3	4245.0	4029.5	3745.9	3677.9	3912.6
45°	4057.0	4051.7	3881.2	3639.7	3978.3	4443.0	4796.9	4447.6	3898.0	3810.9	4193.8
47.5°	4436.9	4410.9	4093.7	3633.6	4218.3	5062.1	5509.2	4974.2	4004.3	3814.0	4647.8
50°	4808.3	4776.2	4347.5	3632.8	4465.9	5704.1	6350.0	5613.9	4112.8	3832.3	5109.5
52.5°	5183.6	5183.6	4764.0	3719.2	4725.8	6421.1	7321.4	6411.1	4297.8	4072.3	5677.4
55°	5406.8	5466.4	5232.5	3865.2	5030.0	7264.9	8282.2	7271.8	4583.6	4505.7	6201.7
57.5°	5123.2	5234.8	5201.2	3763.5	5209.6	7884.7	9097.0	7924.5	4725.0	4556.9	6123.0
60°	4174.7	4329.9	4407.1	3249.9	5032.3	7956.6	9267.4	7967.3	4433.1	3880.5	5244.8
62.5°	2775.3	2902.9	3020.6	2322.0	4356.6	7157.9	8196.6	7160.2	3702.4	2896.0	3633.6
65°	1361.3	1456.0	1582.9	1372.7	3403.5	5980.8	6390.5	5785.9	2678.2	1621.1	1853.5
67.5°	356.2	382.9	400.5	532.7	2438.2	4297.0	4167.8	4232.0	1720.5	529.7	484.6
70°	185.0	186.5	185.7	220.1	1647.9	2730.9	2872.3	2657.5	1200.7	221.7	191.1
72.5°	132.2	133.0	130.7	148.3	795.7	1564.6	1621.1	1603.5	629.0	131.5	130.7
75°	86.4	87.1	85.6	87.1	120.0	178.1	164.3	172.7	104.7	83.3	83.3
77.5°	51.2	52.0	51.2	52.7	51.2	51.2	47.4	47.4	45.1	45.1	45.9
80°	34.4	34.4	33.6	35.2	32.1	32.1	30.6	29.8	27.5	26.8	26.8
82.5°	20.6	21.4	20.6	20.6	19.1	19.1	17.6	16.8	14.5	14.5	13.8
85°	10.7	10.7	9.9	9.9	8.4	7.6	6.1	6.1	4.6	3.8	3.8
87.5°	1.5	1.5	0.8	0.8	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°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
2.5°	1832.1	1816.8	1793.9	1771.7	1751.1	1729.7	1705.2	1680.0	1658.6	1636.4	1624.9
5°	1942.9	1911.6	1852.0	1799.2	1751.8	1712.8	1670.8	1634.9	1601.3	1573.7	1560.0
7.5°	2043.0	1994.1	1903.9	1820.6	1756.4	1702.9	1644.8	1591.3	1546.2	1512.6	1499.6
10°	2135.5	2077.4	1959.0	1853.5	1778.6	1719.0	1647.9	1575.3	1515.6	1471.3	1460.6
12.5°	2210.4	2143.9	2002.5	1880.2	1791.6	1727.4	1664.7	1602.0	1543.2	1485.8	1476.7
15°	2276.9	2198.2	2035.4	1897.0	1787.0	1705.2	1652.5	1644.8	1644.8	1579.9	1561.5
17.5°	2334.2	2247.9	2062.1	1904.7	1757.9	1639.5	1607.4	1673.9	1748.8	1702.1	1660.9
20°	2400.0	2295.3	2084.3	1904.7	1704.4	1556.2	1553.1	1666.2	1777.0	1777.8	1734.2
22.5°	2466.5	2350.3	2110.3	1897.8	1631.1	1459.9	1516.4	1635.6	1734.2	1776.3	1746.5
25°	2574.2	2426.7	2151.6	1892.5	1545.5	1394.1	1483.5	1595.1	1678.5	1722.8	1703.7
27.5°	2711.0	2527.6	2214.2	1900.9	1460.6	1355.1	1448.4	1542.4	1618.1	1657.0	1643.3
30°	2863.9	2643.8	2281.5	1915.4	1399.5	1335.3	1406.4	1482.0	1549.3	1588.3	1582.1
32.5°	3058.8	2769.9	2339.6	1895.5	1365.1	1325.3	1362.0	1416.3	1481.3	1505.7	1511.1
35°	3291.9	2909.0	2383.9	1817.6	1333.7	1314.6	1313.9	1347.5	1393.4	1432.3	1436.2
37.5°	3506.7	3071.8	2432.8	1683.8	1277.2	1287.9	1257.3	1277.2	1322.3	1361.3	1376.5
40°	3719.2	3236.9	2500.9	1513.4	1203.0	1228.3	1192.3	1206.1	1242.0	1293.2	1317.7
42.5°	3925.6	3385.9	2572.7	1339.1	1128.9	1145.0	1118.2	1132.0	1169.4	1233.6	1261.1
45°	4150.3	3587.7	2628.5	1174.8	1064.7	1057.8	1036.4	1056.3	1112.9	1183.2	1216.0
47.5°	4575.2	3905.7	2665.2	1065.5	1030.3	980.6	956.2	999.0	1063.2	1134.3	1174.0
50°	5094.2	4365.8	2654.5	995.9	1000.5	901.1	892.7	949.3	1018.1	1092.2	1135.8
52.5°	5505.4	4817.5	2533.0	929.4	942.4	850.7	826.2	908.8	974.5	1050.2	1095.3
55°	5819.5	4969.6	2160.0	850.7	847.6	814.0	762.8	866.7	930.9	1001.3	1050.2
57.5°	5563.5	4631.0	1601.3	742.2	723.8	741.4	691.7	795.7	877.4	947.0	990.6
60°	4617.3	3692.4	892.0	657.3	605.3	648.1	640.5	720.8	819.4	892.7	930.2
62.5°	3134.5	2458.8	528.9	519.7	490.7	551.8	592.3	645.1	742.2	801.8	836.9
65°	1562.3	1194.6	351.6	389.0	392.9	454.0	530.4	588.5	669.5	730.7	765.9
67.5°	453.2	371.5	267.5	297.3	338.6	387.5	448.7	517.4	596.2	668.8	710.1
70°	195.7	198.0	212.5	247.6	288.1	338.6	399.7	467.0	533.5	589.3	620.6
72.5°	138.3	143.7	159.7	195.7	233.9	282.0	343.2	408.1	456.3	512.9	545.7
75°	88.7	92.5	105.5	133.0	161.3	207.9	266.0	325.6	375.3	415.8	447.1
77.5°	48.9	49.7	60.4	76.4	95.5	125.3	168.2	214.8	251.5	274.4	302.7
80°	28.3	28.3	33.6	43.6	55.0	73.4	97.1	120.0	142.2	156.7	170.4
82.5°	15.3	15.3	17.6	23.7	29.8	40.5	54.3	65.7	79.5	87.1	96.3
85°	4.6	4.6	6.1	8.4	10.7	15.3	21.4	27.5	33.6	39.0	44.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
2.5°	1622.7	1612.0	1605.8	1598.2	1600.5	1593.6	1589.8	1592.1	1578.3	1592.1	1605.8
5°	1554.6	1539.3	1527.1	1517.2	1512.6	1503.4	1498.1	1498.1	1489.7	1503.4	1520.2
7.5°	1495.0	1482.8	1476.7	1470.6	1463.7	1455.3	1446.1	1443.0	1437.7	1452.2	1466.7
10°	1455.3	1456.8	1460.6	1469.0	1467.5	1462.1	1448.4	1440.7	1440.7	1457.6	1479.7
12.5°	1473.6	1489.7	1498.8	1514.1	1517.2	1512.6	1498.8	1492.7	1508.0	1533.2	1569.9
15°	1544.7	1555.4	1563.0	1575.3	1574.5	1570.7	1560.0	1564.6	1615.0	1663.9	1696.8
17.5°	1621.9	1609.7	1608.1	1615.8	1618.1	1613.5	1607.4	1628.0	1711.3	1757.2	1774.0
20°	1677.7	1635.6	1626.5	1629.5	1635.6	1633.4	1633.4	1667.0	1753.4	1774.8	1753.4
22.5°	1694.5	1634.9	1621.1	1621.9	1630.3	1631.1	1634.9	1670.0	1720.5	1721.3	1688.4
25°	1667.7	1610.4	1600.5	1602.0	1612.0	1611.2	1612.7	1632.6	1654.8	1645.6	1621.1
27.5°	1617.3	1567.6	1564.6	1573.0	1586.0	1579.1	1574.5	1579.9	1590.6	1579.1	1557.7
30°	1560.0	1517.9	1519.5	1535.5	1549.3	1537.8	1526.4	1529.4	1530.2	1517.9	1493.5
32.5°	1499.6	1468.3	1473.6	1490.4	1506.5	1494.2	1482.0	1480.5	1466.0	1451.4	1427.8
35°	1439.2	1427.0	1433.9	1447.6	1461.4	1451.4	1443.8	1439.2	1407.9	1386.5	1366.6
37.5°	1384.2	1393.4	1405.6	1414.0	1418.6	1417.8	1413.2	1402.5	1361.3	1336.0	1310.0
40°	1335.3	1363.5	1376.5	1380.4	1387.2	1385.7	1385.0	1369.7	1315.4	1288.6	1258.8
42.5°	1290.9	1330.7	1352.8	1356.7	1360.5	1361.3	1359.0	1336.8	1274.9	1243.6	1215.3
45°	1248.1	1300.1	1328.4	1324.6	1329.9	1329.9	1332.2	1303.2	1235.1	1203.0	1173.2
47.5°	1210.7	1271.8	1297.8	1293.2	1296.3	1298.6	1300.9	1267.2	1191.6	1161.0	1130.4
50°	1176.3	1241.3	1263.4	1265.0	1265.0	1270.3	1269.5	1236.7	1154.9	1122.0	1091.5
52.5°	1139.6	1209.9	1233.6	1243.6	1246.6	1248.9	1238.2	1200.0	1117.4	1077.7	1049.4
55°	1096.8	1177.8	1199.2	1212.2	1218.3	1216.8	1202.3	1163.3	1079.2	1039.5	1007.4
57.5°	1031.8	1109.0	1139.6	1145.7	1155.7	1149.5	1132.7	1099.9	1018.1	978.3	945.5
60°	960.8	1016.5	1041.0	1046.4	1038.7	1041.0	1038.7	1007.4	936.3	905.0	871.3
62.5°	867.5	917.2	943.2	950.1	937.1	945.5	942.4	903.4	832.3	799.5	769.7
65°	797.2	851.5	882.0	885.8	882.0	885.8	875.1	827.8	760.5	726.9	696.3
67.5°	742.2	798.0	830.1	840.8	836.9	836.2	819.4	764.3	694.8	658.1	619.1
70°	647.4	696.3	737.6	763.6	763.6	749.0	716.9	665.7	609.9	578.6	548.0
72.5°	573.2	635.2	675.7	702.4	707.8	699.4	654.3	600.0	535.8	504.5	472.4
75°	472.4	532.7	576.3	611.5	618.3	609.2	557.2	503.7	444.1	413.5	381.4
77.5°	315.7	351.6	386.7	418.8	412.0	418.1	382.9	342.4	305.7	282.8	268.3
80°	178.1	201.8	212.5	230.1	230.1	230.1	207.1	188.0	167.4	154.4	139.9
82.5°	100.9	116.2	120.8	135.3	139.1	139.9	124.6	112.4	99.4	92.5	82.5
85°	46.6	55.0	55.8	64.2	67.3	73.4	66.5	58.1	50.4	47.4	41.3
87.5°	1.5	4.6	6.1	11.5	15.3	17.6	19.1	19.1	16.1	14.5	12.2
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: P636559

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
2.5°	1622.7	1641.0	1662.4	1677.7	1705.2	1728.1	1751.8	1777.8	1796.9	1792.3
5°	1540.9	1571.4	1610.4	1646.3	1697.6	1749.5	1806.9	1865.7	1900.1	1898.6
7.5°	1495.0	1538.6	1586.0	1634.1	1694.5	1769.4	1857.3	1949.0	1995.6	1997.9
10°	1519.5	1566.1	1598.2	1638.7	1702.1	1796.2	1901.6	2011.7	2065.2	2075.9
12.5°	1596.7	1592.8	1590.6	1619.6	1696.0	1815.3	1944.4	2075.9	2136.3	2149.3
15°	1670.0	1591.3	1543.9	1563.8	1668.5	1827.5	1986.5	2146.2	2214.2	2228.0
17.5°	1683.8	1564.6	1476.7	1490.4	1624.9	1831.3	2027.0	2215.0	2288.4	2301.4
20°	1645.6	1530.2	1427.8	1408.6	1569.9	1821.4	2052.2	2272.3	2352.6	2366.3
22.5°	1597.4	1499.6	1391.1	1341.4	1502.7	1811.4	2080.5	2332.7	2425.2	2437.4
25°	1547.0	1460.6	1356.7	1281.0	1426.2	1805.3	2127.9	2412.2	2523.8	2538.3
27.5°	1493.5	1413.2	1326.9	1252.0	1355.9	1813.0	2195.1	2540.6	2667.5	2688.1
30°	1436.2	1365.8	1307.8	1242.0	1307.8	1819.8	2269.3	2672.1	2821.1	2850.2
32.5°	1376.5	1322.3	1287.9	1246.6	1277.9	1803.8	2334.2	2819.6	3004.5	3029.8
35°	1316.9	1277.9	1262.7	1255.0	1238.2	1744.9	2387.0	2968.6	3214.0	3236.1
37.5°	1261.1	1232.1	1227.5	1235.9	1177.1	1648.6	2448.1	3158.2	3419.6	3453.2
40°	1209.2	1182.4	1181.6	1180.1	1109.8	1517.2	2530.7	3350.8	3622.1	3637.4
42.5°	1161.0	1127.4	1133.5	1115.1	1054.8	1375.0	2608.6	3515.1	3810.9	3821.6
45°	1118.2	1073.9	1080.8	1057.8	1028.8	1226.0	2677.4	3709.3	4050.1	4057.0
47.5°	1076.9	1029.5	1010.4	1008.9	1024.2	1088.4	2744.7	4083.0	4424.7	4436.9
50°	1038.7	987.5	933.2	966.9	995.9	985.2	2828.8	4483.5	4811.4	4808.3
52.5°	1002.0	934.8	857.6	922.5	922.5	908.8	2805.1	4726.6	5130.9	5183.6
55°	960.0	849.9	778.8	848.4	814.8	840.0	2385.4	4806.1	5331.9	5406.8
57.5°	876.7	745.2	683.3	720.8	670.3	778.8	1713.6	4411.7	4990.3	5123.2
60°	796.4	668.0	627.5	620.6	554.9	635.2	1110.6	3454.0	4107.5	4174.7
62.5°	702.4	601.5	567.1	514.4	446.4	462.4	672.6	2273.1	2760.0	2775.3
65°	631.3	545.0	479.2	416.6	365.3	335.5	397.4	1096.0	1379.6	1361.3
67.5°	541.9	467.0	404.3	359.2	317.2	279.7	264.5	325.6	368.4	356.2
70°	482.3	410.4	350.1	307.3	268.3	230.8	204.1	191.8	188.0	185.0
72.5°	415.8	353.1	290.4	249.2	212.5	178.1	153.6	139.1	135.3	132.2
75°	331.7	272.9	215.5	176.6	144.5	120.0	103.9	91.7	89.4	86.4
77.5°	219.4	175.0	128.4	104.7	85.6	72.6	61.9	54.3	52.7	51.2
80°	120.8	100.9	78.7	63.4	51.2	44.3	40.5	35.9	35.2	34.4
82.5°	71.8	60.4	45.1	35.9	29.8	26.8	24.5	22.2	21.4	20.6
85°	35.9	28.3	19.9	16.8	15.3	13.8	13.8	11.5	10.7	10.7
87.5°	9.2	7.6	4.6	3.8	3.8	3.8	3.1	2.3	2.3	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)