

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: P637548

Luminaire Tested: GWS-SA4D-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9623.4 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

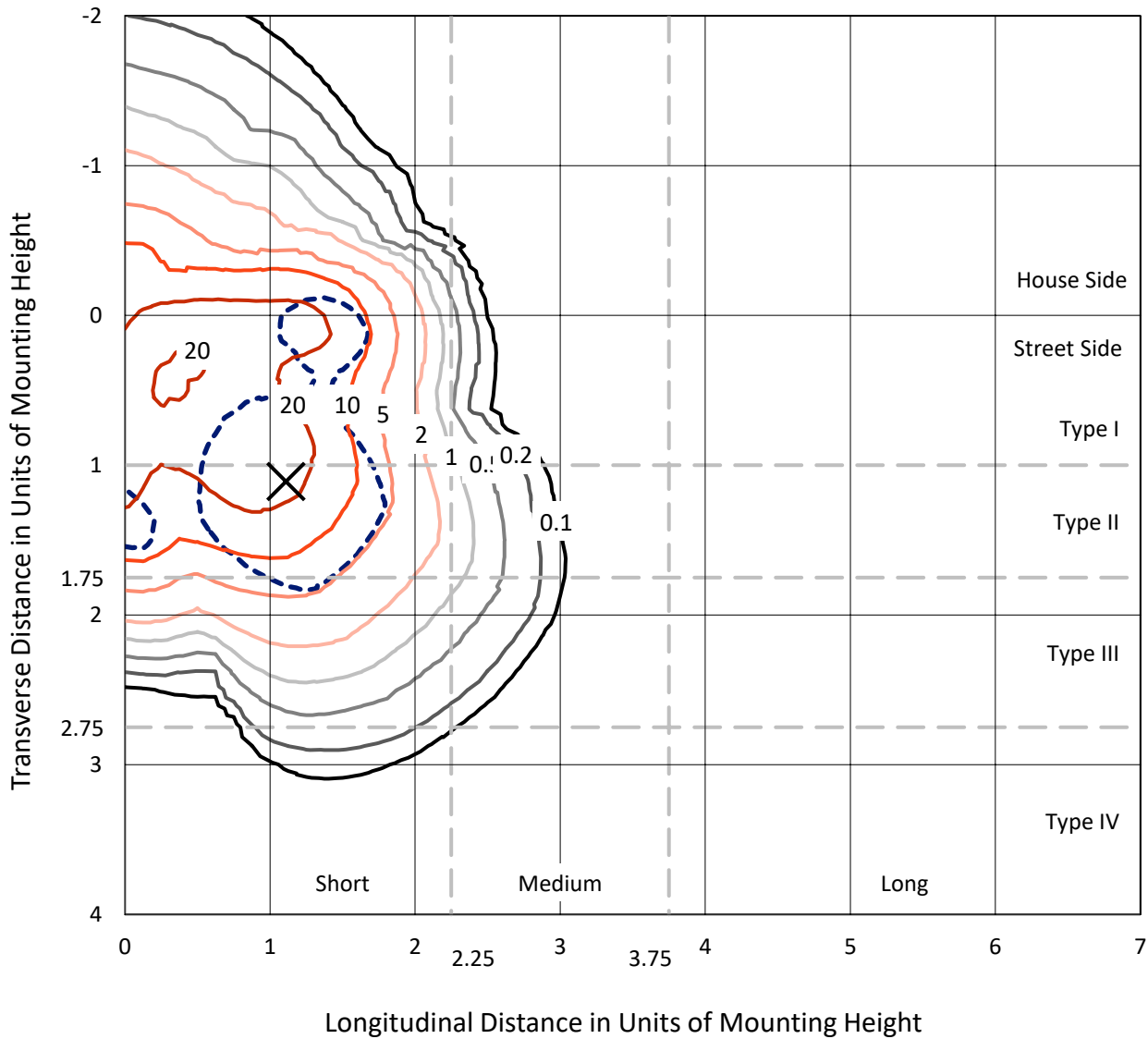
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

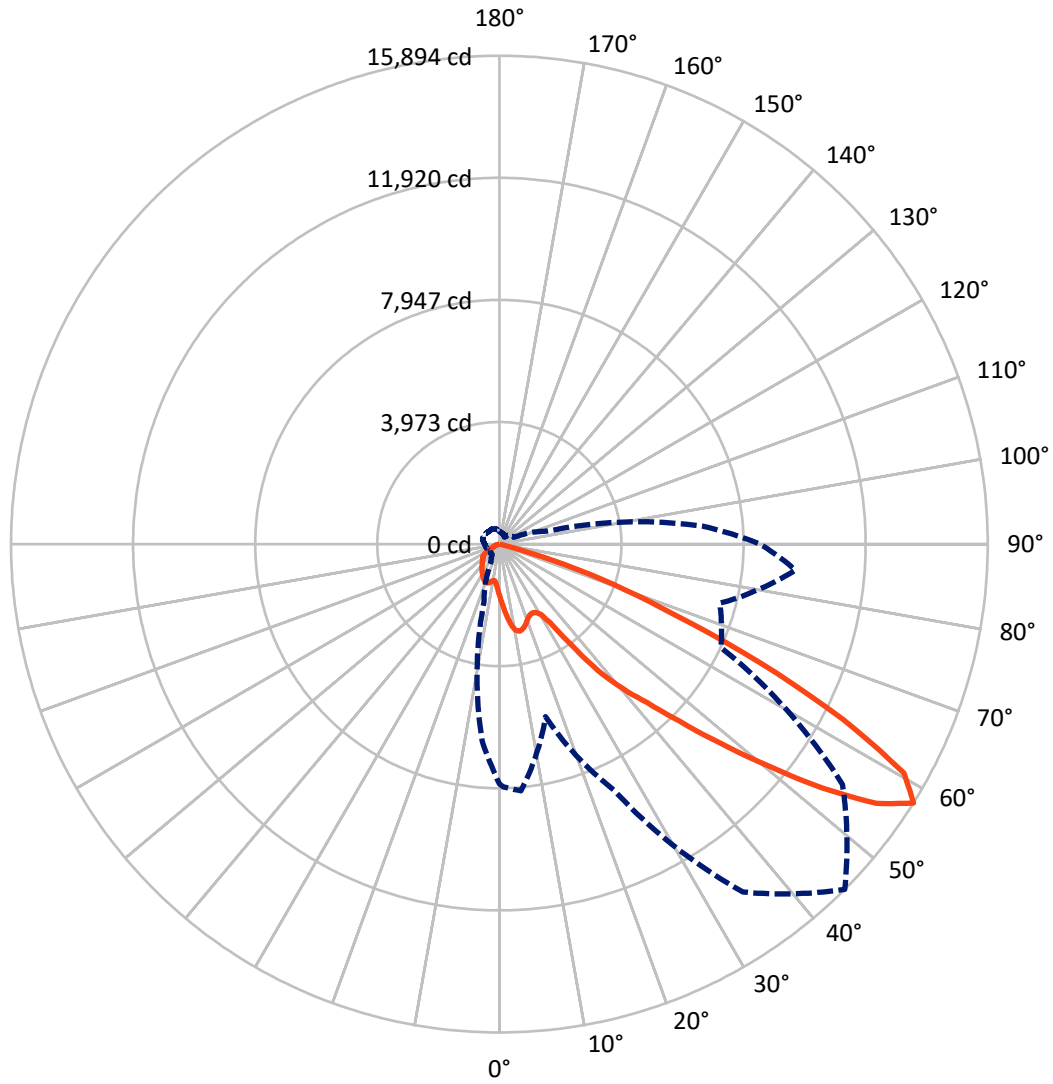
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.9	0.0	2154.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7468.5	0.0	7468.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	9623.4	0.0	9623.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.7
10°-20°	538.3	5.6
20°-30°	874.4	9.1
30°-40°	1351.1	14.0
40°-50°	2166.5	22.5
50°-60°	2961.0	30.8
60°-70°	1434.1	14.9
70°-80°	131.3	1.4
80°-90°	0.4	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°	9623.4	100.0
0°-180°	9623.4	100.0

Coefficient of Utilization



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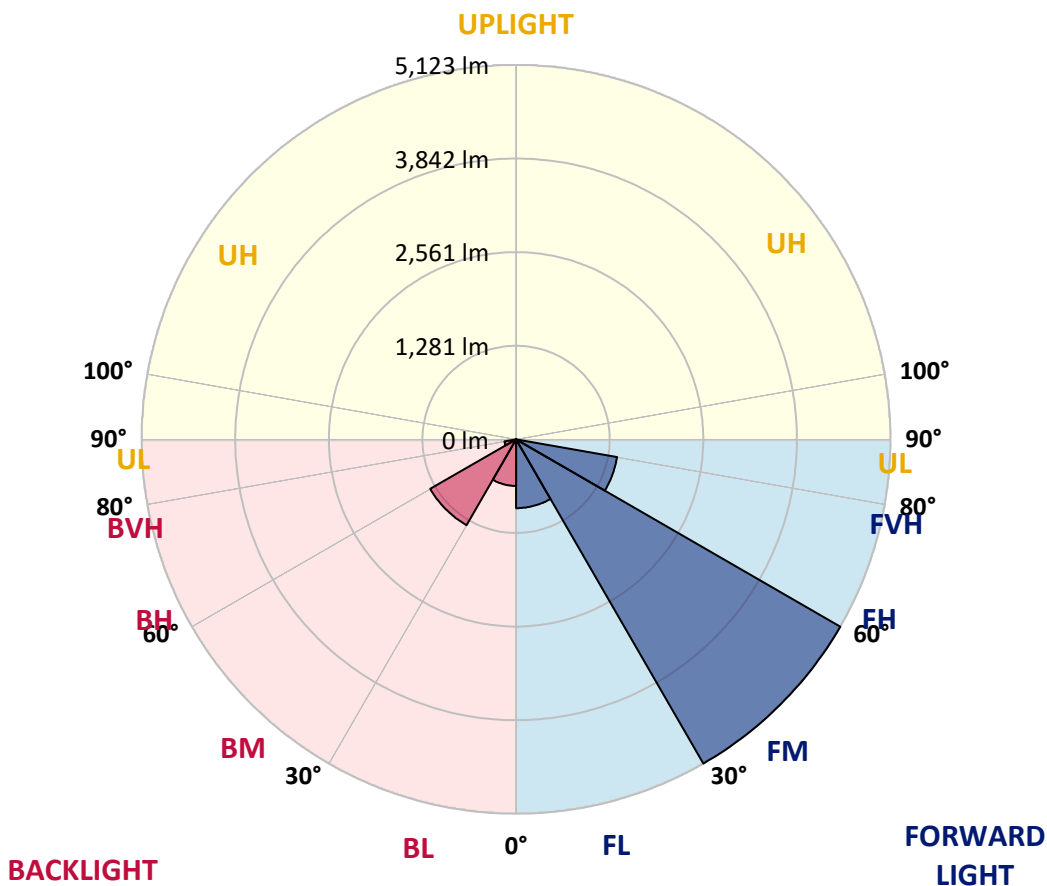
CATALOG NUMBER: GWS-SA4D-722-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.5	9.8			
FM (30°-60°)	5122.7	53.2			
FH (60°-80°)	1403.9	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	637.6	6.6	B2/1000		
BM (30°-60°)	1355.8	14.1	B2/2500		
BH (60°-80°)	161.5	1.7	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1832.4	1844.0	1863.4	1904.8	1939.7	1963.0	1973.3	1970.7	1956.5	1946.2	1925.5
5°	2028.9	2028.9	2066.4	2160.8	2233.2	2278.5	2301.8	2287.5	2259.1	2213.8	2144.0
7.5°	2200.9	2207.4	2270.7	2405.2	2515.1	2579.8	2617.3	2609.5	2559.1	2472.5	2332.8
10°	2335.4	2343.2	2427.2	2591.4	2720.7	2786.7	2842.3	2847.5	2791.9	2676.8	2516.4
12.5°	2466.0	2473.8	2561.7	2719.5	2833.3	2860.4	2909.5	2928.9	2914.7	2833.3	2666.4
15°	2607.0	2625.1	2700.1	2817.7	2865.6	2833.3	2865.6	2900.5	2948.3	2940.6	2790.6
17.5°	2745.3	2758.2	2834.5	2875.9	2822.9	2738.9	2754.4	2795.8	2904.4	3010.4	2913.4
20°	2873.3	2891.4	2954.8	2900.5	2740.1	2609.5	2610.8	2665.1	2830.7	3053.1	3038.9
22.5°	3007.8	3035.0	3080.2	2927.6	2663.9	2507.4	2513.8	2563.0	2772.5	3093.2	3181.1
25°	3183.7	3209.6	3239.3	2994.9	2639.3	2456.9	2481.5	2526.8	2772.5	3161.7	3357.0
27.5°	3421.6	3439.7	3441.0	3120.3	2682.0	2464.7	2516.4	2568.2	2855.2	3298.8	3592.3
30°	3720.3	3748.8	3711.3	3315.6	2815.1	2568.2	2644.5	2709.1	3033.7	3530.2	3938.9
32.5°	4083.7	4123.8	4073.4	3605.3	3093.2	2925.1	3063.4	3100.9	3318.2	3865.2	4332.0
35°	4510.4	4544.1	4489.8	4006.1	3742.3	3773.4	4024.2	3976.4	3889.7	4277.7	4791.1
37.5°	4978.6	5009.6	4904.8	4613.9	4701.8	4836.3	5237.2	5073.0	4793.6	4809.2	5288.9
40°	5407.9	5441.5	5277.3	5274.7	5455.7	5701.4	6185.0	5958.7	5578.6	5504.9	5755.7
42.5°	5852.7	5876.0	5727.3	5626.4	6037.6	6543.2	7055.3	6750.1	6098.4	6018.2	6340.2
45°	6487.6	6536.8	6271.7	5799.7	6561.3	7511.8	8225.6	7629.5	6452.7	6388.1	7235.1
47.5°	7421.3	7457.5	6917.0	5908.3	7048.9	8718.3	9688.1	8770.0	6764.4	6617.0	8458.4
50°	8193.3	8217.8	7510.5	6027.3	7567.4	10019.2	11355.0	10122.6	7114.8	6995.8	9600.2
52.5°	8762.3	8855.4	8290.3	6271.7	8248.9	11549.0	13200.3	11724.8	7661.8	7727.8	10546.8
55°	8879.9	9006.7	8823.0	6421.7	8848.9	13107.2	14904.6	13158.9	8207.5	8282.5	10864.9
57.5°	7804.0	7904.9	8057.5	5816.5	8834.7	13821.0	15893.9	13634.8	7959.2	7427.7	9673.9
60°	5846.2	5916.1	6192.8	4445.8	8124.7	13189.9	15123.2	12825.3	6959.6	5667.8	7370.8
62.5°	3466.9	3497.9	3848.4	2879.8	6743.7	11358.9	12542.1	11066.6	5499.7	3812.2	4514.3
65°	1330.6	1317.7	1585.4	1421.2	4959.2	9048.0	9328.6	8436.4	3773.4	1747.0	1721.2
67.5°	205.6	196.6	265.1	420.3	3576.8	6270.4	6155.3	6080.3	2363.8	407.3	355.6
70°	46.6	46.6	56.9	124.1	2185.4	3684.1	3942.8	3759.1	1513.0	86.6	46.6
72.5°	22.0	22.0	27.2	53.0	791.4	1518.1	1769.0	1741.8	491.4	28.4	16.8
75°	7.8	9.1	9.1	11.6	47.8	78.9	181.0	129.3	31.0	0.0	0.0
77.5°	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	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°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1880.2	1871.2	1837.5	1792.3	1748.3	1709.5	1669.4	1621.6	1586.7	1546.6	1533.7
5°	2089.7	2032.8	1941.0	1845.3	1757.4	1682.4	1609.9	1532.4	1475.5	1418.6	1399.2
7.5°	2266.9	2182.8	2034.1	1890.6	1770.3	1664.3	1559.5	1453.5	1370.7	1303.5	1282.8
10°	2425.9	2328.9	2129.8	1952.6	1801.3	1678.5	1551.8	1418.6	1311.2	1231.1	1211.7
12.5°	2563.0	2450.5	2211.3	1999.2	1814.3	1673.3	1550.5	1444.4	1347.4	1255.6	1231.1
15°	2678.1	2553.9	2279.8	2030.2	1794.9	1608.7	1501.3	1484.5	1476.8	1375.9	1328.0
17.5°	2790.6	2650.9	2335.4	2044.4	1740.6	1494.9	1417.3	1493.6	1575.0	1509.1	1448.3
20°	2908.3	2749.2	2392.3	2047.0	1650.0	1366.8	1353.9	1474.2	1577.6	1556.9	1500.0
22.5°	3046.6	2872.0	2463.4	2045.7	1536.2	1258.2	1307.4	1436.7	1520.7	1519.4	1474.2
25°	3247.1	3027.2	2559.1	2053.5	1412.1	1174.2	1255.6	1373.3	1441.8	1439.3	1401.8
27.5°	3461.7	3212.1	2683.2	2072.9	1306.1	1125.0	1194.9	1286.7	1346.1	1343.6	1311.2
30°	3763.0	3425.5	2802.2	2074.2	1229.8	1099.2	1127.6	1191.0	1247.9	1241.4	1216.8
32.5°	4129.0	3666.0	2901.8	2000.5	1181.9	1074.6	1057.8	1090.1	1134.1	1125.0	1118.6
35°	4571.2	3951.8	2987.1	1838.8	1108.2	1025.5	980.2	986.7	1017.7	1022.9	1020.3
37.5°	5075.5	4291.9	3093.2	1625.5	1008.6	954.3	893.6	888.4	906.5	923.3	936.2
40°	5573.4	4674.7	3236.7	1409.5	918.1	863.8	805.6	792.7	800.4	830.2	857.3
42.5°	6133.3	5118.2	3391.9	1224.6	856.1	764.2	708.6	684.1	706.0	753.9	786.2
45°	6940.2	5740.2	3543.2	1077.2	830.2	676.3	601.3	598.7	623.3	685.4	721.6
47.5°	8073.0	6544.5	3642.8	962.1	828.9	607.8	518.5	534.1	562.5	623.3	664.7
50°	9177.4	7551.9	3532.8	874.2	801.7	562.5	456.5	487.5	516.0	569.0	611.7
52.5°	9843.3	8093.7	3104.8	791.4	717.7	541.8	395.7	450.0	455.2	503.0	548.3
55°	9773.5	7743.3	2378.1	663.4	593.5	512.1	332.3	406.0	408.6	444.8	483.6
57.5°	8482.9	6648.0	1633.2	537.9	446.1	422.9	274.1	342.7	367.2	389.2	417.7
60°	6322.1	4850.5	728.0	437.1	283.2	285.8	234.1	258.6	296.1	322.0	346.6
62.5°	3725.5	2790.6	296.1	262.5	156.5	179.7	188.8	188.8	212.1	231.5	247.0
65°	1408.2	976.3	120.3	131.9	81.5	84.1	111.2	137.1	155.2	172.0	192.7
67.5°	247.0	170.7	62.1	49.1	47.8	42.7	56.9	89.2	99.6	112.5	121.6
70°	41.4	34.9	25.9	24.6	22.0	23.3	37.5	63.4	69.8	73.7	77.6
72.5°	11.6	10.3	7.8	6.5	5.2	6.5	23.3	49.1	51.7	54.3	58.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	34.9	37.5	38.8	42.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	10.3	12.9	10.3
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°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1525.9	1500.0	1485.8	1478.0	1478.0	1467.7	1456.1	1452.2	1469.0	1469.0	1497.4
5°	1374.6	1353.9	1330.6	1316.4	1294.4	1298.3	1285.4	1284.1	1300.9	1308.6	1338.4
7.5°	1269.9	1244.0	1229.8	1220.7	1209.1	1203.9	1192.3	1188.4	1197.4	1210.4	1238.8
10°	1200.0	1196.1	1194.9	1201.3	1201.3	1194.9	1184.5	1178.0	1180.6	1205.2	1237.5
12.5°	1218.1	1225.9	1228.5	1238.8	1244.0	1238.8	1231.1	1233.6	1250.5	1295.7	1343.6
15°	1297.0	1290.5	1288.0	1293.1	1297.0	1291.8	1289.3	1308.6	1366.8	1431.5	1485.8
17.5°	1381.1	1339.7	1321.6	1321.6	1324.2	1321.6	1324.2	1361.7	1456.1	1520.7	1560.8
20°	1423.7	1347.4	1319.0	1312.5	1317.7	1319.0	1328.0	1370.7	1474.2	1519.4	1528.5
22.5°	1410.8	1315.1	1282.8	1277.6	1282.8	1288.0	1297.0	1333.2	1430.2	1453.5	1449.6
25°	1346.1	1251.8	1225.9	1225.9	1237.5	1236.2	1240.1	1266.0	1346.1	1360.4	1353.9
27.5°	1264.7	1175.5	1153.5	1166.4	1176.7	1174.2	1175.5	1197.4	1256.9	1260.8	1254.3
30°	1181.9	1104.3	1083.6	1099.2	1113.4	1110.8	1112.1	1134.1	1171.6	1167.7	1158.6
32.5°	1097.9	1041.0	1025.5	1034.5	1056.5	1053.9	1059.1	1082.4	1096.6	1079.8	1069.4
35°	1020.3	990.5	978.9	984.1	1000.9	1004.8	1013.8	1029.3	1029.3	1008.6	990.5
37.5°	947.9	944.0	936.2	929.8	945.3	956.9	969.8	988.0	962.1	932.3	915.5
40°	880.6	897.4	887.1	870.3	879.3	896.1	922.0	936.2	905.2	875.4	847.0
42.5°	818.6	847.0	843.1	822.4	830.2	845.7	875.4	887.1	850.9	817.3	790.1
45°	759.1	799.2	801.7	775.9	783.6	799.2	834.1	837.9	791.4	755.2	735.8
47.5°	707.3	751.3	752.6	733.2	735.8	757.8	790.1	791.4	738.4	704.8	680.2
50°	658.2	708.6	712.5	695.7	698.3	724.2	751.3	746.1	689.2	654.3	632.3
52.5°	598.7	667.3	676.3	668.5	678.9	699.6	716.4	698.3	632.3	597.4	578.0
55°	534.1	623.3	642.7	637.5	649.2	666.0	669.8	658.2	575.4	540.5	522.4
57.5°	459.1	513.4	547.0	536.6	545.7	562.5	574.2	565.1	503.0	475.9	460.4
60°	380.2	416.4	424.1	407.3	399.6	429.3	456.5	444.8	391.8	375.0	356.9
62.5°	278.0	319.4	324.6	302.6	293.5	325.9	349.1	337.5	279.3	261.2	247.0
65°	222.4	261.2	271.6	250.9	245.7	270.3	284.5	256.0	214.7	195.3	179.7
67.5°	146.1	177.2	204.3	203.0	192.7	200.4	190.1	166.8	137.1	126.7	116.4
70°	90.5	108.6	125.4	131.9	130.6	128.0	113.8	97.0	87.9	84.1	78.9
72.5°	69.8	87.9	100.9	104.7	106.0	102.2	90.5	75.0	65.9	60.8	56.9
75°	51.7	65.9	76.3	81.5	84.1	81.5	69.8	59.5	50.4	46.6	42.7
77.5°	18.1	22.0	27.2	29.7	28.4	27.2	24.6	24.6	19.4	18.1	15.5
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



REPORT NUMBER: P637548

CATALOG NUMBER: GWS-SA4D-722-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1529.8	1553.1	1595.7	1634.5	1675.9	1718.6	1765.1	1813.0	1835.0	1832.4
5°	1383.7	1434.1	1503.9	1580.2	1665.6	1757.4	1859.5	1964.3	2009.5	2028.9
7.5°	1291.8	1363.0	1454.8	1551.8	1664.3	1794.9	1948.7	2113.0	2178.9	2200.9
10°	1303.5	1386.2	1462.5	1556.9	1677.2	1846.6	2038.0	2233.2	2310.8	2335.4
12.5°	1397.9	1416.0	1436.7	1514.3	1665.6	1885.4	2119.4	2352.2	2441.4	2466.0
15°	1483.2	1399.2	1360.4	1431.5	1624.2	1912.5	2202.2	2480.2	2578.5	2607.0
17.5°	1487.1	1360.4	1273.7	1329.3	1556.9	1924.2	2283.7	2610.8	2718.2	2745.3
20°	1439.3	1317.7	1206.5	1207.8	1465.1	1921.6	2350.9	2728.5	2848.8	2873.3
22.5°	1369.4	1267.3	1152.2	1112.1	1366.8	1916.4	2424.6	2853.9	2984.5	3007.8
25°	1291.8	1202.6	1100.5	1039.7	1268.6	1921.6	2528.1	3018.2	3161.7	3183.7
27.5°	1207.8	1131.5	1060.4	1011.2	1185.8	1941.0	2652.2	3227.7	3398.3	3421.6
30°	1119.9	1063.0	1034.5	1004.8	1134.1	1946.2	2786.7	3472.1	3688.0	3720.3
32.5°	1033.2	1002.2	1003.5	1008.6	1084.9	1910.0	2909.5	3743.6	4032.0	4083.7
35°	953.0	944.0	969.8	995.7	1013.8	1816.8	3016.9	4064.3	4457.4	4510.4
37.5°	884.5	892.3	924.6	950.5	936.2	1685.0	3159.1	4465.2	4933.3	4978.6
40°	818.6	837.9	875.4	887.1	876.7	1531.1	3329.8	4851.8	5345.8	5407.9
42.5°	757.8	772.0	825.0	827.6	859.9	1374.6	3494.0	5268.2	5820.4	5852.7
45°	708.6	706.0	760.4	777.2	881.9	1201.3	3654.4	5823.0	6441.1	6487.6
47.5°	660.8	658.2	671.1	747.4	891.0	1041.0	3813.4	6635.1	7341.1	7421.3
50°	615.5	619.4	579.3	733.2	841.8	918.1	3885.9	7386.4	8159.7	8193.3
52.5°	575.4	561.2	491.4	686.7	737.1	801.7	3680.3	7727.8	8666.6	8762.3
55°	518.5	439.7	404.8	557.3	581.9	699.6	3014.3	7529.9	8710.5	8879.9
57.5°	443.5	345.3	344.0	411.2	411.2	649.2	1930.6	6433.3	7506.6	7804.0
60°	341.4	267.7	284.5	285.8	263.8	473.3	1083.6	4660.4	5550.1	5846.2
62.5°	243.1	204.3	214.7	170.7	151.3	236.6	519.8	2683.2	3425.5	3466.9
65°	162.9	138.4	112.5	94.4	93.1	100.9	214.7	969.8	1179.3	1330.6
67.5°	107.3	84.1	59.5	59.5	67.2	67.2	81.5	160.3	225.0	205.6
70°	69.8	58.2	37.5	36.2	44.0	44.0	41.4	44.0	46.6	46.6
72.5°	51.7	44.0	22.0	19.4	24.6	25.9	23.3	22.0	22.0	22.0
75°	38.8	31.0	12.9	9.1	11.6	15.5	12.9	9.1	9.1	7.8
77.5°	15.5	11.6	5.2	3.9	6.5	9.1	7.8	3.9	2.6	2.6
80°	1.3	2.6	2.6	2.6	3.9	5.2	6.5	2.6	1.3	1.3
82.5°	0.0	1.3	1.3	1.3	2.6	3.9	5.2	2.6	1.3	1.3
85°	0.0	0.0	0.0	0.0	2.6	3.9	2.6	1.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.3	3.9	2.6	1.3	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

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