

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: P637544

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 9672.6 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

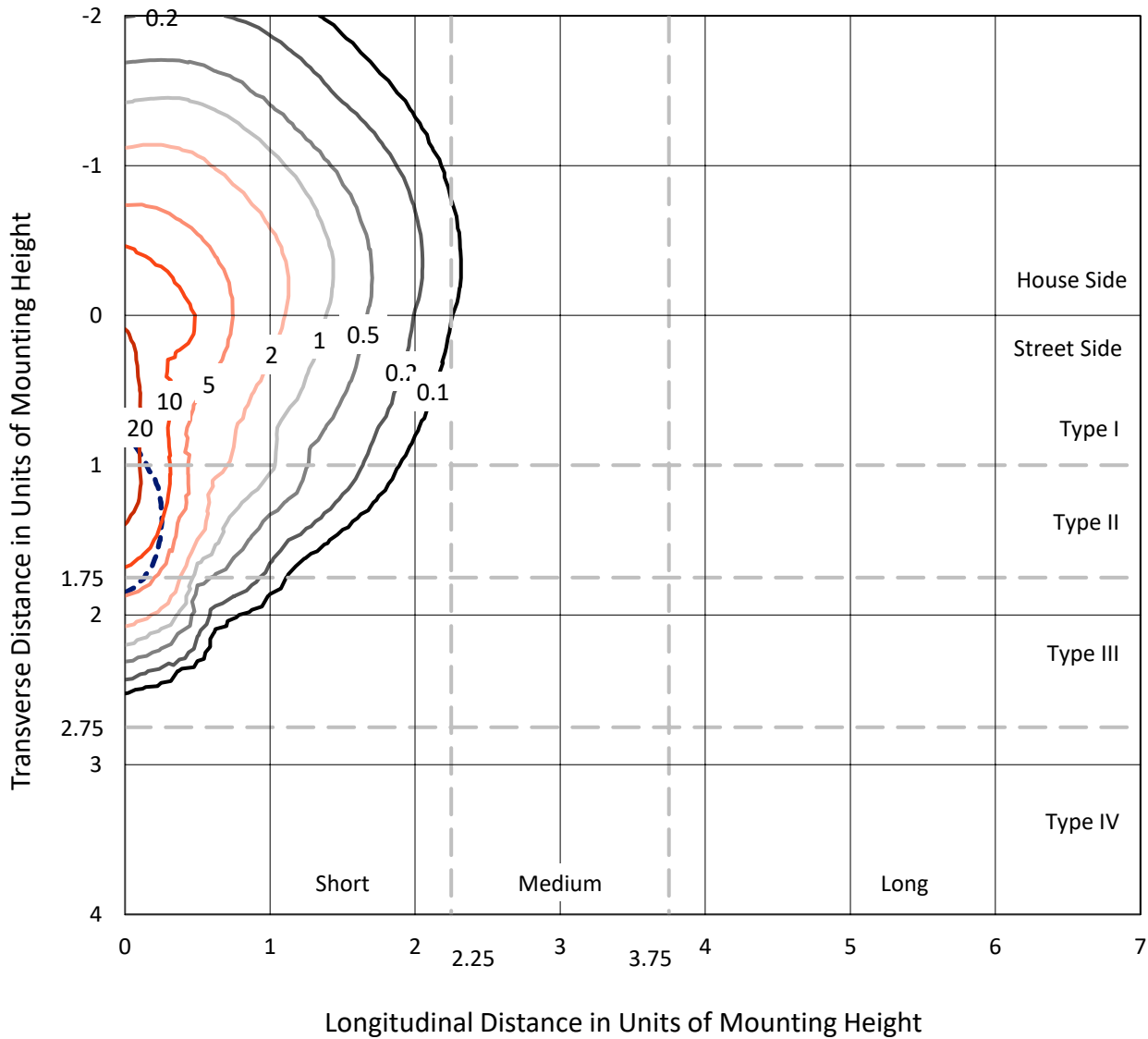
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

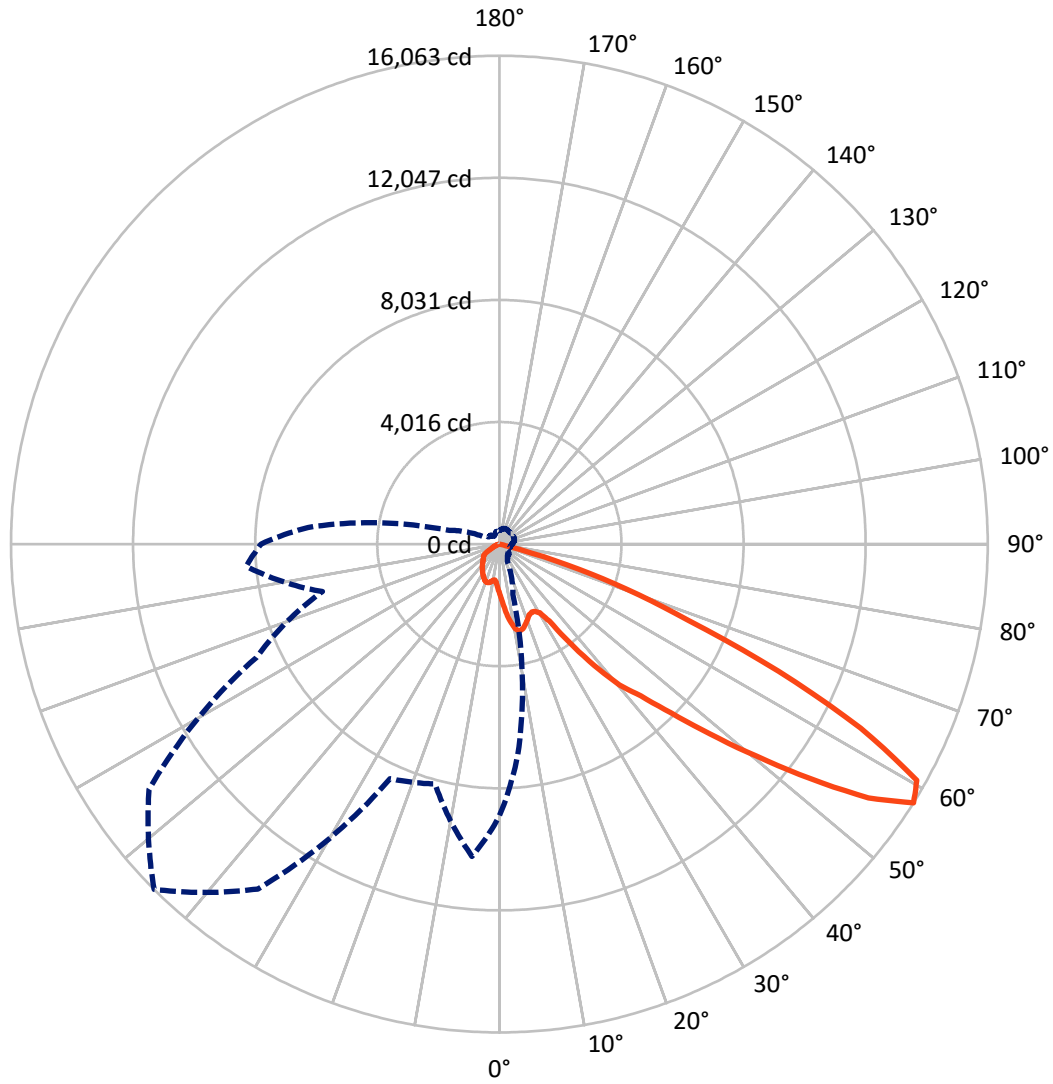
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2083.8	0.0	2083.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7588.8	0.0	7588.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	9672.6	0.0	9672.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.7
10°-20°	534.5	5.5
20°-30°	867.5	9.0
30°-40°	1331.3	13.8
40°-50°	2126.3	22.0
50°-60°	2977.1	30.8
60°-70°	1526.5	15.8
70°-80°	147.0	1.5
80°-90°	0.0	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°	9672.6	100.0
0°-180°	9672.6	100.0

Coefficient of Utilization



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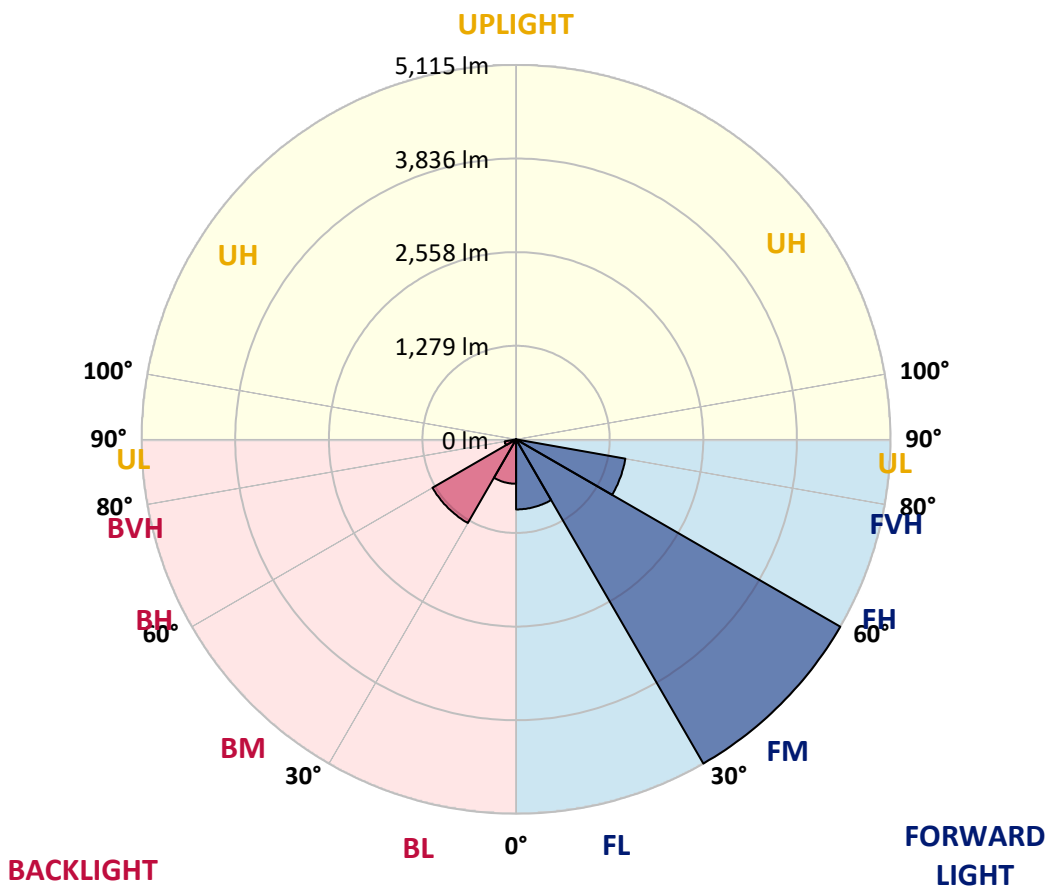
CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.6	9.9			
FM (30°-60°)	5115.1	52.9			
FH (60°-80°)	1516.0	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	606.8	6.3	B2/1000		
BM (30°-60°)	1319.6	13.6	B2/2500		
BH (60°-80°)	157.4	1.6	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°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1825.8	1822.0	1809.0	1765.1	1737.9	1695.2	1664.2	1624.1	1580.2	1553.0	1525.8
5°	2019.8	2009.5	1974.5	1873.7	1796.1	1712.1	1644.8	1571.1	1492.2	1440.5	1392.7
7.5°	2206.0	2190.5	2143.9	1973.3	1855.6	1735.3	1639.6	1532.3	1421.1	1343.5	1284.0
10°	2388.3	2353.4	2279.7	2070.2	1911.2	1766.4	1653.9	1531.0	1400.4	1302.1	1236.2
12.5°	2538.3	2512.5	2411.6	2162.0	1957.7	1772.8	1634.5	1520.7	1432.7	1366.8	1306.0
15°	2667.6	2639.2	2543.5	2244.8	1997.8	1747.0	1553.0	1453.4	1467.7	1493.5	1441.8
17.5°	2786.6	2756.9	2653.4	2313.3	2013.3	1683.6	1439.2	1391.4	1470.2	1567.2	1547.8
20°	2909.5	2875.8	2749.1	2368.9	2008.2	1584.0	1324.1	1338.3	1449.6	1560.8	1571.1
22.5°	3053.0	3018.1	2870.7	2440.1	2004.3	1465.1	1224.6	1291.8	1410.8	1505.2	1523.3
25°	3243.1	3201.7	3040.1	2544.8	2014.6	1356.5	1153.4	1246.5	1344.8	1430.2	1440.5
27.5°	3493.9	3440.9	3235.3	2674.1	2036.6	1271.1	1122.4	1184.5	1260.8	1337.1	1346.1
30°	3821.1	3753.8	3459.0	2786.6	2026.3	1211.6	1101.7	1122.4	1167.7	1229.7	1231.0
32.5°	4203.8	4112.0	3709.9	2883.6	1937.0	1167.7	1073.3	1059.0	1069.4	1117.2	1126.3
35°	4653.8	4534.9	3986.6	2975.4	1774.1	1082.3	1021.5	973.7	969.8	993.1	1015.1
37.5°	5169.8	5027.5	4335.7	3093.1	1581.4	993.1	945.2	897.4	876.7	888.4	922.0
40°	5645.6	5487.9	4700.4	3235.3	1384.9	912.9	856.0	806.9	782.3	786.2	827.6
42.5°	6204.2	6041.3	5146.5	3421.5	1222.0	858.6	762.9	712.5	680.2	698.3	746.1
45°	7052.5	6867.6	5796.9	3583.2	1092.7	845.7	681.5	610.3	594.8	625.9	682.8
47.5°	8211.1	7984.8	6690.5	3681.4	982.7	857.3	624.6	527.6	531.5	566.4	623.3
50°	9360.7	9116.3	7723.6	3552.1	892.2	834.0	596.1	462.9	487.5	518.5	570.3
52.5°	10150.8	9832.7	8226.6	3178.4	809.5	746.1	593.5	402.2	448.7	459.0	503.0
55°	10181.8	9790.0	7969.3	2506.0	697.0	629.7	566.4	351.7	406.0	409.9	447.4
57.5°	8924.9	8570.6	6964.6	1721.1	619.4	461.6	451.3	307.8	333.6	365.9	389.2
60°	6790.0	6488.7	5208.6	788.8	470.7	293.5	309.0	265.1	249.6	297.4	320.7
62.5°	4158.6	3965.9	3124.1	349.1	300.0	156.5	187.5	210.8	187.5	205.6	225.0
65°	1651.3	1565.9	1185.8	148.7	122.8	78.9	85.3	122.8	131.9	144.8	162.9
67.5°	287.1	271.5	199.1	65.9	50.4	47.8	41.4	56.9	80.2	89.2	103.4
70°	37.5	36.2	32.3	27.2	25.9	23.3	18.1	36.2	54.3	56.9	65.9
72.5°	9.1	7.8	7.8	6.5	7.8	2.6	2.6	19.4	38.8	40.1	46.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	24.6	27.2	32.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1503.9	1478.0	1469.0	1456.0	1439.2	1444.4	1421.1	1413.3	1425.0	1440.5	1436.6
5°	1366.8	1338.3	1319.0	1289.2	1284.0	1272.4	1264.6	1254.3	1267.2	1285.3	1289.2
7.5°	1258.2	1233.6	1214.2	1205.2	1198.7	1193.5	1178.0	1170.2	1170.2	1178.0	1184.5
10°	1211.6	1193.5	1189.6	1192.2	1202.6	1201.3	1187.1	1176.7	1163.8	1157.3	1165.1
12.5°	1276.3	1246.5	1241.4	1242.7	1255.6	1254.3	1238.8	1225.8	1223.3	1225.8	1250.4
15°	1386.2	1340.9	1307.3	1300.8	1307.3	1304.7	1293.1	1285.3	1289.2	1326.7	1368.1
17.5°	1484.5	1414.6	1353.9	1330.6	1329.3	1325.4	1313.8	1311.2	1330.6	1400.4	1461.2
20°	1512.9	1444.4	1357.7	1328.0	1321.5	1317.7	1304.7	1308.6	1333.2	1417.2	1469.0
22.5°	1475.4	1409.5	1319.0	1289.2	1284.0	1282.7	1269.8	1275.0	1295.7	1369.4	1412.1
25°	1404.3	1348.7	1254.3	1228.4	1228.4	1225.8	1214.2	1216.8	1229.7	1294.4	1335.8
27.5°	1317.7	1264.6	1185.8	1159.9	1163.8	1167.7	1153.4	1149.6	1159.9	1220.7	1245.2
30°	1218.1	1180.6	1118.5	1095.2	1094.0	1109.5	1090.1	1084.9	1099.1	1147.0	1152.1
32.5°	1121.1	1103.0	1059.0	1040.9	1042.2	1044.8	1034.5	1034.5	1047.4	1073.3	1072.0
35°	1026.7	1015.1	1007.3	994.4	993.1	987.9	987.9	990.5	1004.7	1013.8	997.0
37.5°	936.2	947.8	956.9	944.0	933.6	933.6	933.6	945.2	958.2	954.3	925.9
40°	856.0	880.6	909.0	894.8	870.2	869.0	874.1	893.5	912.9	889.6	863.8
42.5°	787.5	818.5	858.6	850.9	823.7	819.8	823.7	848.3	863.8	834.0	805.6
45°	720.3	759.0	806.9	806.9	777.1	773.3	774.6	806.9	815.9	781.0	744.8
47.5°	663.4	706.0	756.5	756.5	731.9	724.1	730.6	764.2	770.7	721.5	687.9
50°	609.0	655.6	711.2	707.3	690.5	684.0	695.7	731.9	724.1	669.8	634.9
52.5°	540.5	589.6	665.9	669.8	660.8	662.1	676.3	699.6	677.6	611.6	581.9
55°	478.4	528.9	605.2	625.9	625.9	624.6	631.0	649.1	631.0	552.1	515.9
57.5°	411.2	453.9	517.2	522.4	526.3	512.1	521.1	545.7	536.6	469.4	448.7
60°	337.5	373.7	409.9	413.8	397.0	367.2	384.0	412.5	419.0	368.5	345.3
62.5°	239.2	274.1	316.8	316.8	300.0	270.3	292.2	316.8	307.8	256.0	241.8
65°	178.4	210.8	243.1	257.3	243.1	222.4	239.2	257.3	243.1	200.4	179.7
67.5°	115.1	137.1	156.5	168.1	170.7	168.1	175.9	170.7	153.9	125.4	113.8
70°	69.8	81.5	91.8	102.2	109.9	113.8	117.7	106.0	89.2	73.7	69.8
72.5°	50.4	60.8	69.8	77.6	86.6	89.2	89.2	81.5	65.9	51.7	47.8
75°	34.9	44.0	51.7	56.9	64.7	67.2	67.2	60.8	49.1	37.5	33.6
77.5°	1.3	9.1	9.1	7.8	10.3	12.9	12.9	15.5	14.2	10.3	9.1
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°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1444.4	1490.9	1503.9	1551.7	1594.4	1637.1	1688.8	1719.8	1766.4	1798.7	1816.8
5°	1302.1	1340.9	1387.5	1458.6	1532.3	1613.8	1712.1	1797.4	1904.7	1983.6	2009.5
7.5°	1198.7	1249.1	1303.4	1392.7	1493.5	1602.1	1740.5	1880.2	2044.4	2151.7	2220.2
10°	1179.3	1231.0	1303.4	1391.4	1497.4	1621.5	1790.9	1972.0	2177.6	2308.2	2385.8
12.5°	1272.4	1328.0	1359.0	1399.1	1479.3	1617.7	1834.9	2065.1	2306.9	2449.1	2531.9
15°	1409.5	1458.6	1408.2	1357.7	1409.5	1576.3	1859.5	2142.7	2420.7	2584.9	2670.2
17.5°	1503.9	1507.7	1397.8	1290.5	1304.7	1501.3	1868.5	2220.2	2542.2	2714.2	2803.4
20°	1494.8	1463.8	1352.6	1233.6	1189.6	1404.3	1858.2	2288.8	2665.1	2844.8	2932.7
22.5°	1425.0	1388.8	1294.4	1178.0	1092.7	1289.2	1840.1	2350.8	2777.6	2981.9	3064.6
25°	1340.9	1302.1	1224.6	1122.4	1030.6	1178.0	1825.8	2436.2	2919.8	3160.3	3225.0
27.5°	1242.7	1209.0	1143.1	1069.4	1004.7	1094.0	1822.0	2548.7	3091.8	3377.6	3422.8
30°	1147.0	1115.9	1064.2	1021.5	994.4	1044.8	1809.0	2668.9	3297.4	3627.1	3676.3
32.5°	1055.2	1024.1	991.8	985.3	986.6	1026.7	1765.1	2787.9	3541.8	3989.2	4025.4
35°	976.3	940.1	927.1	942.7	971.1	995.7	1640.9	2886.2	3804.3	4383.6	4413.3
37.5°	901.3	865.1	863.8	901.3	932.3	947.8	1494.8	2983.2	4158.6	4784.4	4821.9
40°	832.8	796.5	809.5	854.7	879.3	887.1	1317.7	3130.6	4533.6	5207.3	5186.6
42.5°	774.6	737.1	744.8	803.0	825.0	845.7	1154.7	3253.4	4894.3	5608.1	5601.7
45°	717.7	689.2	684.0	747.4	766.8	849.6	1035.8	3347.8	5358.6	6118.9	6129.2
47.5°	662.1	640.1	641.4	668.5	716.4	869.0	934.9	3409.9	6032.3	6928.4	6748.6
50°	611.6	594.8	609.0	578.0	684.0	844.4	848.3	3396.9	6784.8	7704.2	7343.5
52.5°	556.0	552.1	558.6	483.6	632.3	744.8	766.8	3225.0	7137.9	8234.4	8028.8
55°	499.1	497.8	446.1	386.6	528.9	594.8	656.9	2690.9	7126.2	8516.3	8765.9
57.5°	431.9	421.5	338.8	315.5	411.2	413.8	598.7	1762.5	6315.5	7841.3	8358.5
60°	327.2	319.4	248.3	256.0	287.1	265.1	477.2	878.0	4719.8	6108.6	6691.7
62.5°	226.3	215.9	184.9	197.8	184.9	151.3	292.2	434.5	2859.0	3857.3	4386.2
65°	165.5	153.9	126.7	108.6	86.6	86.6	111.2	166.8	1106.9	1639.6	1977.1
67.5°	102.2	97.0	75.0	54.3	53.0	56.9	58.2	82.8	178.4	284.5	347.8
70°	65.9	60.8	50.4	34.9	32.3	33.6	34.9	38.8	45.3	49.1	59.5
72.5°	45.3	42.7	36.2	19.4	15.5	16.8	18.1	18.1	22.0	20.7	24.6
75°	32.3	29.7	25.9	9.1	5.2	6.5	7.8	6.5	7.8	5.2	6.5
77.5°	9.1	9.1	6.5	1.3	0.0	1.3	2.6	2.6	1.3	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	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: P637544

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1863.3	1893.1	1904.7	1887.9	1902.1	1878.9	1869.8	1834.9	1832.3	1825.8
5°	2114.2	2181.4	2221.5	2246.1	2217.7	2186.6	2140.1	2059.9	2035.3	2019.8
7.5°	2361.2	2465.9	2534.5	2566.8	2559.0	2495.7	2411.6	2277.1	2229.3	2206.0
10°	2575.8	2703.9	2786.6	2826.7	2809.9	2754.3	2634.0	2465.9	2402.6	2388.3
12.5°	2725.8	2843.5	2900.4	2935.3	2936.6	2914.6	2800.8	2631.4	2556.4	2538.3
15°	2820.2	2870.7	2872.0	2892.6	2928.9	2978.0	2925.0	2775.0	2694.8	2667.6
17.5°	2879.7	2824.1	2767.2	2772.4	2831.9	2962.5	3016.8	2901.7	2816.4	2786.6
20°	2922.4	2746.5	2640.5	2641.8	2702.6	2900.4	3080.1	3024.5	2936.6	2909.5
22.5°	2949.5	2678.0	2526.7	2522.8	2587.5	2826.7	3138.3	3170.7	3084.0	3053.0
25°	3005.1	2645.7	2458.2	2480.1	2537.0	2803.4	3217.2	3364.6	3284.4	3243.1
27.5°	3104.7	2678.0	2451.7	2502.1	2566.8	2872.0	3354.3	3623.2	3540.5	3493.9
30°	3276.7	2799.5	2551.3	2621.1	2698.7	3051.7	3584.4	3984.0	3865.0	3821.1
32.5°	3553.4	3051.7	2859.0	3009.0	3084.0	3346.5	3929.7	4388.7	4291.8	4203.8
35°	3934.9	3627.1	3605.1	3954.3	3936.2	3905.1	4353.8	4885.3	4739.2	4653.8
37.5°	4459.9	4553.0	4715.9	5062.4	5050.8	4814.2	4911.2	5354.7	5279.7	5169.8
40°	5115.5	5313.3	5590.0	6086.6	5931.4	5634.0	5595.2	5835.7	5774.9	5645.6
42.5°	5502.1	5843.5	6371.1	6817.2	6693.0	6173.2	6129.2	6478.4	6345.2	6204.2
45°	5681.8	6275.4	7309.8	7913.7	7537.4	6531.4	6514.6	7316.3	7241.3	7052.5
47.5°	5764.6	6711.1	8409.0	9323.2	8619.7	6845.6	6784.8	8531.8	8433.5	8211.1
50°	5856.4	7312.4	9733.1	10956.4	9927.1	7201.2	7245.2	9664.6	9623.2	9360.7
52.5°	6058.1	7948.6	11363.7	12823.6	11512.4	7758.5	8035.3	10732.7	10453.3	10150.8
55°	6360.7	8641.7	13060.2	14730.9	13130.0	8507.2	8890.0	11300.3	10516.7	10181.8
57.5°	6025.8	8815.0	14064.9	16062.8	13847.7	8509.8	8167.2	10316.3	9249.5	8924.9
60°	4781.8	8200.8	13678.3	15774.4	13236.1	7556.8	6253.4	8054.7	7007.3	6790.0
62.5°	3232.7	6877.9	12041.3	13340.8	11328.8	5944.3	4064.2	5238.3	4338.3	4158.6
65°	1771.5	5131.0	9729.2	10092.6	8866.7	4152.1	2090.9	2273.3	1731.4	1651.3
67.5°	488.8	3571.5	7158.5	6695.6	6221.1	2703.9	540.5	406.0	289.7	287.1
70°	122.8	2362.5	4289.2	4421.1	3814.6	1731.4	103.4	49.1	38.8	37.5
72.5°	51.7	1016.4	2035.3	2339.2	1952.6	801.7	37.5	14.2	11.6	9.1
75°	6.5	81.5	173.3	262.5	179.7	86.6	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)