

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P858233

Luminaire Tested: **LX4C45D010 EX4C459835 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C45D010 EX4C459835 4LBLWWH  
Description:  
Light Source: -  
Ballast/Driver: -

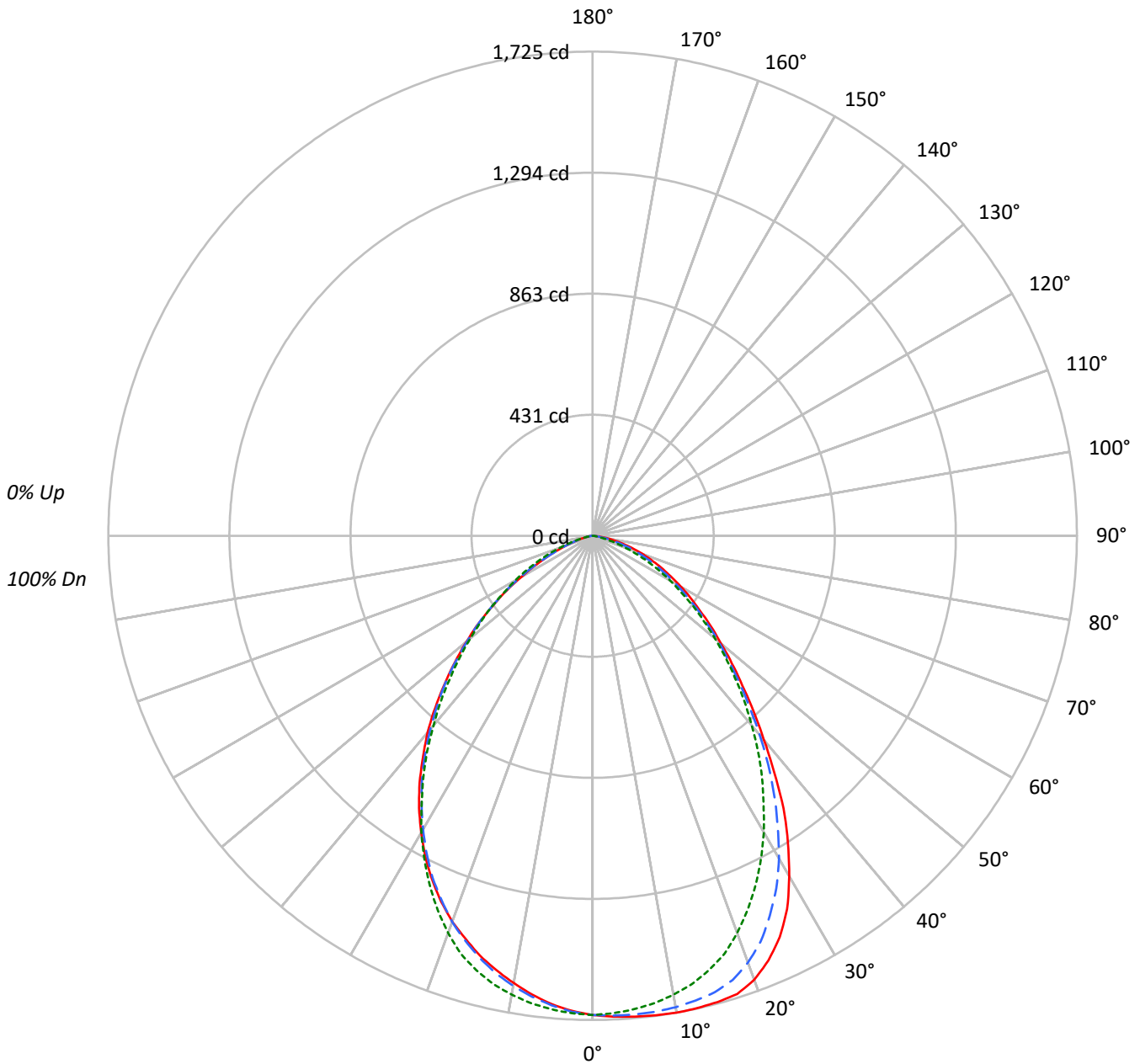
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3217.4 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	209735	209735	209735
5°	212078	208835	206566
10°	215191	207083	201843
15°	218724	203779	197013
20°	220110	196839	191178
25°	213795	186197	183364
30°	198688	173068	173167
35°	177842	157760	161120
40°	152275	141418	146582
45°	131088	124694	129368
50°	113949	108560	111828
55°	100283	93386	92529
60°	89216	77938	71796
65°	78255	62412	51918
70°	67242	44110	35130
75°	54540	25585	20553
80°	39053	11178	10188
85°	14801	4652	4652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	5.0
10°-20°	455.4	14.2
20°-30°	650.4	20.2
30°-40°	680.4	21.1
40°-50°	570.1	17.7
50°-60°	399.0	12.4
60°-70°	217.2	6.8
70°-80°	75.4	2.3
80°-90°	8.6	0.3
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°-30°	1266.7	39.4
0°-40°	1947.1	60.5
0°-60°	2916.1	90.6
0°-90°	3217.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1707	1707	1707	1707	1707	
5°	1720	1712	1693	1679	1675	164
15°	1720	1684	1602	1556	1549	486
25°	1577	1493	1374	1347	1353	720
35°	1186	1127	1052	1060	1074	735
45°	754	737	718	741	745	587
55°	468	452	436	436	432	423
65°	269	246	215	181	179	268
75°	115	93	54	43	43	124
85°	10	6	3	3	3	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1715.1	1713.1	1713.8	1713.8	1713.8	1713.1	1713.8	1713.1	1713.1	1712.5	1711.2
5°	1719.7	1718.4	1718.4	1718.4	1717.8	1717.0	1717.0	1716.4	1715.1	1714.5	1711.8
7.5°	1723.0	1721.7	1721.7	1721.1	1720.3	1719.7	1719.0	1717.0	1715.1	1713.8	1710.5
10°	1725.0	1723.0	1723.0	1721.7	1720.3	1719.7	1718.4	1715.8	1713.1	1709.8	1705.3
12.5°	1723.6	1721.7	1721.1	1719.7	1717.0	1715.8	1714.5	1711.2	1706.6	1702.0	1696.1
15°	1719.7	1718.4	1717.0	1715.1	1711.8	1709.8	1708.6	1703.3	1697.3	1690.8	1683.6
17.5°	1711.8	1709.8	1707.2	1704.6	1700.0	1698.1	1694.8	1688.2	1679.7	1670.5	1659.3
20°	1683.6	1682.3	1679.7	1675.0	1667.8	1665.2	1660.6	1652.0	1640.9	1629.7	1618.0
22.5°	1637.0	1635.0	1631.1	1627.2	1620.6	1615.9	1612.0	1600.2	1587.7	1575.9	1564.7
25°	1577.2	1575.3	1570.0	1564.7	1558.1	1550.3	1546.4	1537.2	1524.7	1509.6	1493.1
27.5°	1500.4	1493.8	1491.9	1485.9	1476.1	1473.5	1467.5	1455.8	1443.9	1430.8	1417.0
30°	1400.6	1400.6	1396.6	1394.1	1384.8	1382.2	1375.6	1363.1	1356.6	1338.2	1327.7
32.5°	1294.9	1293.6	1290.3	1288.3	1283.0	1278.5	1271.9	1265.3	1250.8	1241.7	1227.2
35°	1185.8	1178.0	1179.3	1175.4	1172.1	1166.8	1166.1	1158.9	1145.8	1140.5	1127.4
37.5°	1061.8	1058.5	1063.0	1057.2	1053.9	1054.6	1049.3	1044.7	1039.4	1030.2	1027.6
40°	949.5	952.1	951.5	946.2	948.8	945.5	940.3	935.7	933.0	927.1	925.2
42.5°	849.0	845.1	843.8	843.8	844.4	844.4	841.8	838.5	838.5	832.6	826.7
45°	754.5	754.5	753.2	757.1	751.2	751.2	749.2	748.5	745.9	744.6	737.4
47.5°	673.1	672.4	671.7	671.0	670.4	670.4	666.5	663.2	662.6	658.6	654.6
50°	596.2	600.1	598.8	595.6	594.3	594.9	592.3	590.3	589.6	583.1	583.7
52.5°	531.8	531.2	532.5	530.6	527.3	527.9	525.3	522.6	520.1	516.8	514.2
55°	468.2	471.5	470.1	468.2	467.5	466.2	464.2	460.9	460.3	453.1	452.4
57.5°	415.0	414.3	413.1	409.8	409.0	407.1	407.1	404.5	400.6	396.6	393.3
60°	363.1	363.1	361.2	360.5	357.9	357.2	356.5	353.9	349.3	346.1	340.8
62.5°	313.2	314.5	313.2	311.2	309.3	306.7	305.3	303.4	299.4	296.1	291.5
65°	269.2	268.6	267.9	265.3	264.6	262.0	261.4	257.4	253.4	250.8	245.6
67.5°	227.2	225.3	225.3	223.9	222.6	220.6	219.3	215.4	210.8	208.1	202.9
70°	187.2	185.8	185.8	185.8	182.5	180.6	180.0	177.9	171.4	168.7	163.5
72.5°	150.3	149.7	149.0	147.0	145.1	145.1	142.5	138.6	135.3	132.0	128.1
75°	114.9	116.2	114.9	112.3	111.6	110.3	108.3	105.0	101.7	97.8	93.3
77.5°	84.1	82.8	81.4	81.4	80.1	77.5	76.9	74.2	70.3	67.6	63.0
80°	55.2	54.5	53.1	51.9	51.2	50.6	49.9	47.3	43.3	41.4	37.5
82.5°	30.2	29.5	29.5	28.9	26.9	26.9	26.3	23.6	21.7	20.3	18.4
85°	10.5	10.5	10.5	9.8	9.8	9.8	9.2	8.6	7.8	7.2	5.9
87.5°	1.3	0.6	1.3	0.6	1.3	0.6	0.6	0.6	0.6	0.6	0.6
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1709.8	1708.6	1707.9	1707.2	1706.6	1705.9	1705.3	1703.9	1703.3	1702.6	1701.4
5°	1709.8	1707.2	1705.9	1703.9	1702.6	1701.4	1699.4	1697.3	1695.4	1693.4	1691.5
7.5°	1707.2	1703.3	1700.6	1696.7	1695.4	1693.4	1689.5	1686.9	1683.6	1679.7	1675.0
10°	1700.6	1696.1	1690.8	1685.6	1683.6	1680.3	1675.0	1670.5	1665.2	1660.0	1655.3
12.5°	1690.1	1682.9	1676.4	1669.2	1665.2	1661.9	1654.7	1648.1	1641.6	1635.6	1627.8
15°	1674.4	1665.9	1657.3	1647.5	1642.9	1638.9	1628.4	1620.6	1610.0	1602.2	1594.3
17.5°	1648.8	1635.6	1625.1	1612.7	1606.1	1601.5	1592.3	1579.8	1570.0	1561.4	1552.3
20°	1604.8	1592.3	1577.8	1564.1	1556.9	1550.9	1537.8	1524.7	1514.8	1505.6	1495.8
22.5°	1547.0	1531.3	1520.8	1503.7	1497.8	1490.5	1474.8	1463.0	1451.8	1442.6	1433.4
25°	1476.7	1463.0	1448.5	1432.8	1425.5	1417.0	1403.9	1391.4	1384.2	1373.6	1362.5
27.5°	1396.0	1384.8	1367.1	1353.3	1346.1	1339.5	1327.0	1315.9	1305.4	1298.2	1287.7
30°	1310.6	1297.5	1281.7	1267.3	1263.3	1255.5	1244.3	1235.8	1224.6	1220.0	1215.4
32.5°	1216.7	1201.6	1189.9	1180.6	1172.7	1166.1	1160.2	1146.5	1144.5	1132.7	1131.4
35°	1114.3	1107.7	1096.6	1088.7	1082.1	1077.5	1067.7	1061.1	1053.9	1051.9	1047.4
37.5°	1017.7	1009.9	999.4	992.2	987.6	986.9	979.7	975.7	970.5	967.9	962.6
40°	916.6	913.4	904.1	902.9	895.7	895.0	891.0	886.5	881.8	881.8	882.5
42.5°	823.4	819.5	815.5	811.0	807.0	807.0	805.1	803.7	802.4	800.4	803.7
45°	736.0	730.9	728.2	723.6	725.6	721.6	720.3	720.3	718.4	717.7	722.3
47.5°	654.6	648.7	646.2	644.8	644.8	645.4	639.6	641.5	640.9	642.1	644.2
50°	580.4	575.2	571.2	571.2	572.0	569.3	566.7	568.7	566.7	568.0	572.6
52.5°	511.5	506.2	504.3	504.3	500.4	499.7	501.0	498.4	499.0	499.7	502.3
55°	447.8	444.5	441.2	437.9	438.6	437.3	434.7	434.0	435.3	436.0	439.3
57.5°	390.7	386.1	381.5	380.1	378.9	378.9	375.6	375.0	376.2	372.9	372.9
60°	336.2	333.6	327.6	325.7	325.7	322.4	319.8	321.1	317.8	317.2	317.8
62.5°	285.6	283.7	279.7	275.8	274.5	273.1	269.8	268.6	267.3	264.6	260.7
65°	241.7	237.0	232.5	229.8	227.8	224.5	222.6	220.0	216.1	214.7	210.8
67.5°	197.6	193.1	188.4	186.5	184.5	182.5	179.2	175.9	171.4	166.1	161.5
70°	158.9	153.0	150.3	145.1	143.8	141.2	136.6	133.3	128.7	122.8	118.2
72.5°	121.5	117.5	113.6	109.0	105.8	103.7	99.8	94.5	89.3	86.1	81.4
75°	87.3	85.3	80.1	74.8	73.6	70.9	66.3	63.0	59.1	53.9	49.9
77.5°	59.1	55.2	51.9	47.3	45.9	43.3	40.8	37.5	34.8	31.5	28.9
80°	34.8	31.5	29.5	26.3	25.0	23.6	21.7	19.1	17.0	15.8	15.1
82.5°	17.0	14.4	13.8	11.9	11.1	10.5	9.2	8.6	7.2	7.2	7.2
85°	5.9	4.6	4.6	3.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.6
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1700.6	1700.0	1699.4	1698.7	1698.7	1698.1	1698.1	1697.3	1697.3	1696.7	1696.7
5°	1688.9	1686.9	1685.6	1684.2	1684.2	1682.3	1680.9	1679.7	1679.0	1679.0	1677.7
7.5°	1672.5	1669.8	1667.2	1665.2	1664.5	1661.2	1658.6	1658.6	1656.1	1654.7	1653.4
10°	1650.8	1646.2	1642.2	1640.3	1637.6	1635.6	1632.3	1630.4	1628.4	1625.1	1624.5
12.5°	1621.2	1618.0	1612.0	1609.4	1608.1	1604.2	1598.9	1596.3	1595.6	1593.0	1591.0
15°	1587.7	1580.5	1575.3	1572.0	1572.0	1565.4	1562.8	1558.9	1556.2	1554.2	1553.6
17.5°	1544.4	1537.2	1531.9	1527.3	1526.0	1520.8	1516.9	1515.5	1512.2	1513.6	1510.3
20°	1488.6	1482.7	1478.7	1472.8	1472.8	1469.5	1468.3	1465.0	1463.6	1462.3	1463.6
22.5°	1428.8	1421.6	1415.0	1414.4	1414.4	1409.8	1409.1	1408.5	1405.8	1407.8	1407.2
25°	1358.6	1353.3	1349.4	1348.7	1348.7	1346.1	1343.5	1344.7	1346.7	1346.1	1348.0
27.5°	1285.7	1280.5	1279.1	1278.5	1277.2	1276.5	1277.8	1277.8	1279.7	1282.4	1285.0
30°	1206.9	1205.5	1203.6	1203.0	1201.6	1204.9	1206.3	1208.2	1207.5	1211.5	1214.1
32.5°	1128.1	1125.5	1124.8	1126.1	1128.1	1127.4	1131.4	1132.7	1134.0	1138.6	1140.5
35°	1048.6	1048.0	1046.6	1046.6	1047.4	1052.6	1052.6	1057.2	1059.8	1061.1	1066.3
37.5°	963.3	965.9	967.2	969.1	969.9	971.8	973.2	977.7	980.4	983.0	985.6
40°	885.1	883.8	889.7	885.8	887.1	893.0	895.7	895.0	899.0	902.9	905.5
42.5°	801.8	803.7	805.1	806.3	809.6	810.2	813.5	818.2	819.5	824.1	825.4
45°	721.0	721.6	724.3	726.9	728.8	734.1	735.4	737.4	741.3	741.3	743.3
47.5°	644.8	647.4	647.4	651.4	654.6	654.0	658.6	659.9	659.3	662.6	663.8
50°	572.0	575.9	575.2	577.8	579.2	579.8	583.7	585.1	582.4	585.7	586.4
52.5°	502.3	504.3	507.0	507.6	506.2	509.5	508.2	510.9	510.2	512.8	510.2
55°	438.6	437.9	437.9	439.3	437.9	439.3	440.6	437.9	436.0	438.6	437.9
57.5°	375.0	375.0	373.6	375.6	373.6	371.7	371.0	369.0	367.0	367.0	366.4
60°	315.1	313.9	311.2	310.6	310.6	307.3	306.0	303.4	303.4	300.7	298.1
62.5°	259.4	256.1	254.1	254.1	252.8	249.5	243.6	239.7	238.4	234.4	233.7
65°	206.8	203.6	201.6	197.6	194.4	193.1	187.2	182.5	180.6	176.7	177.3
67.5°	158.9	153.6	147.8	145.1	143.1	138.6	136.6	133.3	131.4	131.4	131.4
70°	114.2	109.7	103.7	101.7	100.5	96.5	94.5	93.9	95.9	95.2	95.9
72.5°	76.9	72.2	69.6	68.3	67.0	65.0	66.3	67.0	65.6	66.3	67.0
75°	46.6	45.3	43.3	42.7	42.7	43.3	42.7	42.7	43.3	43.3	44.0
77.5°	26.9	25.6	25.6	25.0	26.3	25.6	25.6	25.6	26.3	26.3	26.3
80°	14.4	14.4	14.4	14.4	15.1	14.4	15.1	15.1	15.1	15.1	15.1
82.5°	7.2	7.2	7.2	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.2
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P858233

CATALOG NUMBER: LX4C45D010 EX4C459835 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1695.4	1695.4	1695.4	1694.1	1694.8	1694.8	1694.1	1694.1
5°	1677.0	1676.4	1675.0	1675.0	1673.7	1675.0	1674.4	1675.0
7.5°	1652.0	1652.0	1650.1	1650.1	1649.5	1648.8	1648.1	1648.8
10°	1622.5	1622.5	1621.2	1620.6	1621.2	1618.6	1618.6	1618.0
12.5°	1589.7	1588.4	1587.0	1587.7	1587.0	1585.1	1584.4	1585.1
15°	1551.6	1549.7	1550.3	1548.3	1548.3	1547.7	1549.0	1549.0
17.5°	1509.6	1508.3	1507.0	1507.6	1506.3	1507.0	1506.3	1505.6
20°	1463.0	1462.3	1462.3	1459.7	1460.3	1459.7	1460.3	1462.3
22.5°	1409.1	1408.5	1409.1	1407.2	1408.5	1408.5	1410.5	1410.5
25°	1350.0	1349.4	1350.7	1351.3	1352.0	1353.9	1352.0	1352.7
27.5°	1284.4	1286.3	1288.3	1288.9	1291.6	1289.6	1288.3	1290.3
30°	1218.0	1218.0	1217.4	1220.0	1222.0	1223.9	1220.7	1220.7
32.5°	1141.9	1145.2	1145.2	1145.8	1147.8	1147.8	1147.8	1150.4
35°	1069.0	1071.0	1071.6	1069.0	1070.3	1069.6	1074.3	1074.3
37.5°	987.6	987.6	988.2	992.9	992.9	990.8	992.2	992.2
40°	910.1	910.7	908.1	909.4	912.7	911.4	912.7	914.0
42.5°	825.4	829.9	827.4	828.7	828.0	828.7	829.3	829.3
45°	744.6	745.9	745.9	746.6	747.9	749.2	745.2	744.6
47.5°	665.9	666.5	668.4	665.2	669.1	665.2	669.1	664.5
50°	586.4	589.0	587.0	588.4	586.4	586.4	585.7	585.1
52.5°	510.9	510.2	510.2	509.5	509.5	510.9	509.5	511.5
55°	435.3	436.0	434.7	434.0	433.4	435.3	433.4	432.0
57.5°	363.7	365.1	362.5	363.7	359.2	361.2	361.8	362.5
60°	297.5	295.5	295.5	292.8	292.8	294.8	292.2	292.2
62.5°	230.5	231.8	229.8	232.5	232.5	235.1	233.7	235.1
65°	176.7	177.3	177.9	177.9	177.9	181.9	180.6	178.6
67.5°	133.3	133.9	134.7	133.9	135.9	134.7	134.7	135.3
70°	96.5	97.2	97.8	97.8	97.2	97.8	97.8	97.8
72.5°	67.0	67.6	67.0	67.6	68.3	67.6	67.6	68.3
75°	44.0	44.0	43.3	43.3	43.3	43.3	44.0	43.3
77.5°	25.6	26.3	25.6	26.3	26.3	26.3	26.3	26.3
80°	15.1	15.1	15.1	14.4	15.1	15.1	15.1	14.4
82.5°	7.8	7.8	7.2	7.2	7.8	7.8	7.8	7.8
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)