

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: P684197

Luminaire Tested: **LX6C30D010 EX6C309040 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C30D010 EX6C309040 6LCSWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

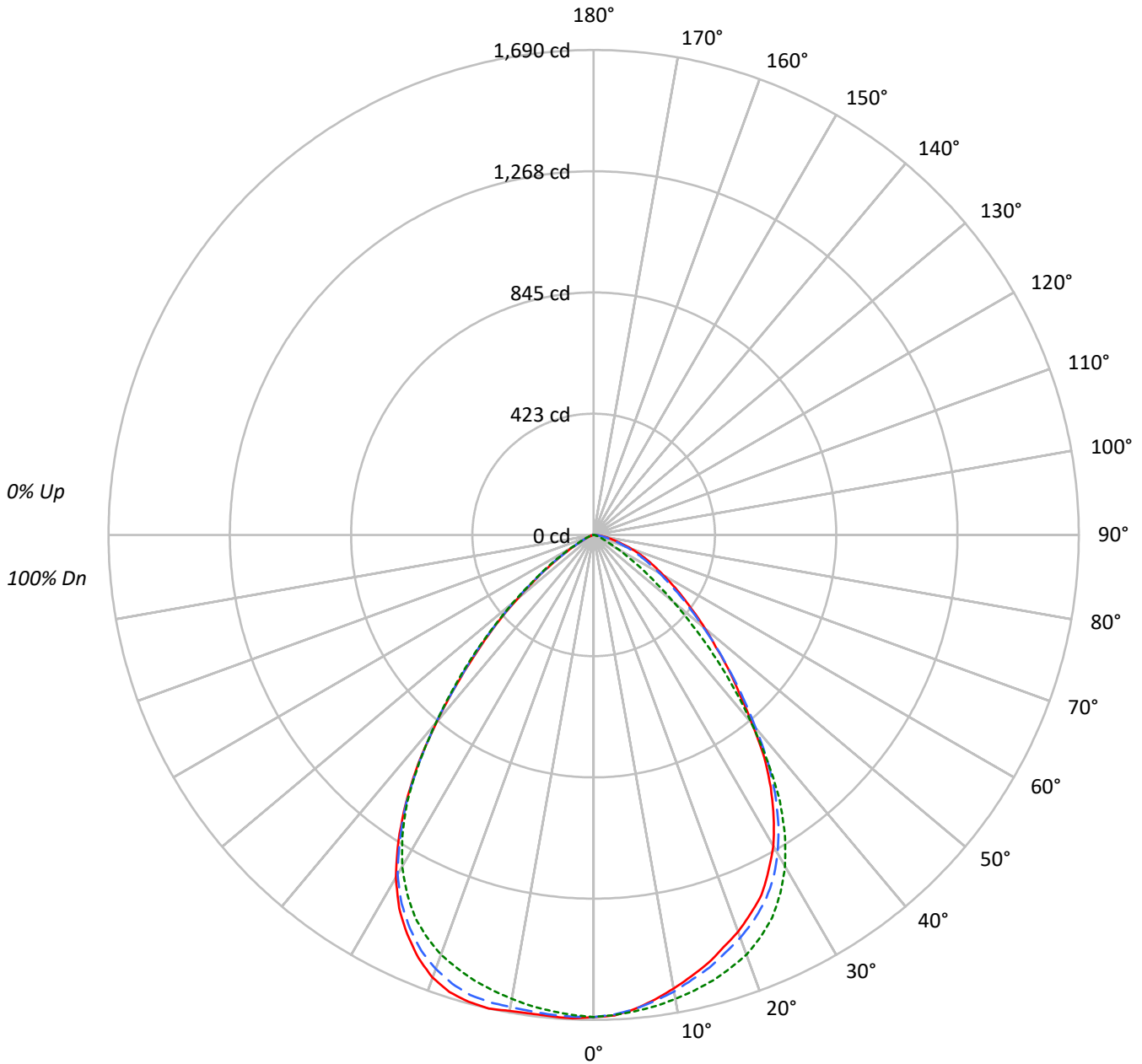
Lumens per Lamp: N/A
Luminaire Lumens: 2819.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
Input Current (A_{in}): 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				20				
RC	80				70				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			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	92114	92114	92114
5°	91239	91685	92692
10°	89355	91387	93764
15°	87645	91215	95596
20°	85827	90804	95774
25°	83715	88989	92921
30°	79259	84399	87222
35°	71982	75643	76326
40°	61429	61136	60850
45°	51602	45780	44369
50°	43095	30976	29423
55°	36271	19010	17261
60°	30710	10010	8673
65°	26592	5266	4203
70°	22119	3254	2276
75°	16352	2139	1292
80°	12817	1263	663
85°	10253	1321	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	5.6
10°-20°	453.4	16.1
20°-30°	669.5	23.8
30°-40°	690.0	24.5
40°-50°	476.6	16.9
50°-60°	234.9	8.3
60°-70°	95.2	3.4
70°-80°	33.9	1.2
80°-90°	7.0	0.2
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°	1281.3	45.5
0°-40°	1971.4	69.9
0°-60°	2682.9	95.2
0°-90°	2819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2819.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1680	1680	1680	1680	1680	
5°	1658	1658	1666	1678	1684	157
15°	1544	1561	1607	1660	1684	435
25°	1384	1410	1471	1514	1536	633
35°	1076	1102	1130	1136	1140	666
45°	666	670	590	582	572	514
55°	380	365	199	187	181	343
65°	205	185	41	32	32	204
75°	77	65	10	6	6	87
85°	16	12	2	0	0	20
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°	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3
2.5°	1676.2	1670.2	1674.2	1666.1	1676.2	1666.1	1668.1	1670.2	1668.1	1670.2	1672.2
5°	1658.0	1651.9	1658.0	1647.8	1658.0	1651.9	1651.9	1653.9	1653.9	1655.9	1658.0
7.5°	1633.6	1627.5	1633.6	1623.5	1635.6	1629.6	1629.6	1633.6	1631.6	1633.6	1637.7
10°	1605.2	1597.1	1603.2	1597.1	1609.3	1601.1	1605.2	1605.2	1605.2	1611.3	1615.4
12.5°	1574.8	1566.6	1574.8	1564.6	1576.8	1570.7	1572.7	1578.8	1580.8	1584.9	1586.9
15°	1544.3	1534.2	1538.2	1532.1	1544.3	1538.2	1540.3	1548.4	1548.4	1554.5	1560.6
17.5°	1505.8	1497.6	1505.8	1497.6	1507.8	1503.7	1507.8	1513.9	1513.9	1520.0	1526.0
20°	1471.2	1463.1	1469.2	1463.1	1475.4	1469.2	1471.2	1479.4	1481.4	1487.5	1493.6
22.5°	1428.6	1422.5	1426.6	1420.6	1432.7	1428.6	1430.7	1438.8	1440.9	1444.9	1455.1
25°	1384.0	1371.8	1377.9	1373.9	1386.1	1380.0	1384.0	1392.1	1396.2	1402.2	1410.4
27.5°	1319.1	1313.0	1317.0	1317.0	1327.2	1321.1	1323.1	1331.3	1337.3	1343.4	1353.6
30°	1252.1	1242.0	1246.0	1248.0	1256.2	1252.1	1256.2	1264.3	1266.3	1274.4	1282.5
32.5°	1166.9	1162.8	1170.9	1166.9	1170.9	1170.9	1172.9	1179.0	1183.1	1187.2	1197.3
35°	1075.6	1067.5	1075.6	1071.5	1081.7	1075.6	1081.7	1087.8	1087.8	1095.8	1102.0
37.5°	976.1	966.0	970.0	970.0	974.1	972.1	972.1	982.2	984.2	990.3	996.4
40°	858.4	854.3	862.5	860.4	862.5	862.5	864.5	870.6	874.6	876.7	878.7
42.5°	752.9	754.9	756.9	756.9	756.9	756.9	756.9	765.0	763.1	769.2	771.1
45°	665.6	657.5	661.6	659.6	665.6	659.6	665.6	671.7	667.7	673.8	669.6
47.5°	576.3	576.3	576.3	574.3	578.4	576.3	580.4	582.4	582.4	582.4	580.4
50°	505.3	499.2	501.2	501.2	503.3	501.2	505.3	507.3	507.3	503.3	495.2
52.5°	436.3	434.3	434.3	438.3	438.3	436.3	436.3	436.3	436.3	430.3	426.1
55°	379.5	375.5	377.4	377.4	377.4	377.4	379.5	377.4	377.4	371.3	365.3
57.5°	328.8	324.7	324.7	324.7	326.7	324.7	324.7	324.7	322.6	316.5	308.5
60°	280.1	278.0	280.1	280.1	282.1	280.1	280.1	280.1	276.0	269.9	261.8
62.5°	239.5	239.5	239.5	241.5	241.5	239.5	239.5	237.4	235.4	227.3	219.2
65°	205.0	202.9	205.0	205.0	207.0	207.0	205.0	202.9	200.9	192.8	184.7
67.5°	170.5	168.4	170.5	170.5	172.5	170.5	170.5	170.5	164.4	160.3	152.2
70°	138.0	136.0	136.0	136.0	138.0	133.9	136.0	136.0	131.9	125.8	117.7
72.5°	105.5	105.5	105.5	105.5	105.5	105.5	103.5	103.5	99.4	93.3	89.3
75°	77.2	77.2	79.1	79.1	77.2	77.2	77.2	75.1	73.0	69.0	64.9
77.5°	56.9	56.9	56.9	56.9	54.8	54.8	54.8	52.7	50.7	48.7	44.6
80°	40.6	40.6	40.6	38.5	40.6	38.5	38.5	38.5	34.5	32.4	30.4
82.5°	28.4	26.4	26.4	26.4	26.4	26.4	26.4	24.3	24.3	22.4	20.3
85°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	14.2	12.2	12.2
87.5°	8.1	10.1	10.1	10.1	10.1	10.1	10.1	8.1	8.1	8.1	6.1
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°	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3
2.5°	1672.2	1672.2	1676.2	1670.2	1680.3	1674.2	1672.2	1682.3	1676.2	1674.2	1678.3
5°	1658.0	1660.0	1662.0	1658.0	1668.1	1662.0	1662.0	1672.2	1668.1	1666.1	1672.2
7.5°	1639.7	1641.7	1645.8	1643.8	1651.9	1647.8	1649.9	1660.0	1655.9	1655.9	1662.0
10°	1617.4	1621.4	1625.5	1625.5	1635.6	1631.6	1631.6	1643.8	1639.7	1641.7	1649.9
12.5°	1591.0	1597.1	1603.2	1605.2	1615.4	1609.3	1611.3	1625.5	1623.5	1625.5	1633.6
15°	1562.6	1570.7	1576.8	1576.8	1589.0	1582.9	1589.0	1603.2	1599.1	1607.2	1617.4
17.5°	1530.1	1538.2	1546.3	1548.4	1560.6	1556.5	1564.6	1578.8	1578.8	1582.9	1595.1
20°	1499.7	1509.8	1513.9	1520.0	1532.1	1530.1	1534.2	1550.4	1550.4	1556.5	1568.7
22.5°	1459.1	1469.2	1477.3	1483.4	1493.6	1493.6	1499.7	1513.9	1513.9	1517.9	1530.1
25°	1414.5	1426.6	1432.7	1438.8	1448.9	1446.9	1453.0	1465.2	1467.2	1471.2	1483.4
27.5°	1357.6	1367.8	1375.9	1380.0	1394.2	1386.1	1392.1	1406.4	1404.3	1408.3	1418.5
30°	1286.6	1296.8	1304.9	1304.9	1317.0	1317.0	1323.1	1329.2	1329.2	1333.3	1341.4
32.5°	1203.4	1215.6	1215.6	1221.7	1229.8	1221.7	1229.8	1237.9	1233.8	1239.9	1246.0
35°	1108.0	1114.1	1116.1	1116.1	1122.3	1120.2	1118.1	1124.2	1120.2	1130.3	1136.4
37.5°	992.4	1000.5	996.4	1000.5	998.4	992.4	992.4	1002.5	994.4	996.4	1002.5
40°	880.7	880.7	878.7	868.6	870.6	864.5	862.5	864.5	856.4	854.3	862.5
42.5°	765.0	763.1	756.9	742.8	744.7	734.6	726.5	726.5	722.5	720.4	722.5
45°	661.6	655.4	645.3	629.1	625.0	616.9	600.7	596.6	590.5	590.5	592.6
47.5°	566.2	558.1	541.8	523.6	513.4	503.3	487.0	480.9	470.8	466.7	470.8
50°	487.0	472.8	452.5	426.1	416.0	403.8	387.6	377.4	367.3	363.2	361.2
52.5°	414.0	393.7	373.4	341.0	332.8	320.7	298.3	288.2	278.0	269.9	269.9
55°	351.0	332.8	304.4	274.0	261.8	249.6	227.3	213.1	202.9	198.9	194.8
57.5°	294.3	274.0	247.6	215.1	202.9	190.8	168.4	154.2	144.1	138.0	133.9
60°	247.6	225.3	198.9	170.5	156.3	144.1	121.8	107.5	97.4	91.3	87.2
62.5°	202.9	184.7	158.3	131.9	119.7	107.5	89.3	75.1	64.9	60.9	54.8
65°	170.5	152.2	127.8	105.5	95.4	83.2	67.0	54.8	46.7	40.6	36.6
67.5°	138.0	123.8	103.5	83.2	73.0	64.9	50.7	40.6	32.4	28.4	26.4
70°	109.6	95.4	79.1	62.9	56.9	48.7	38.5	28.4	24.3	20.3	18.2
72.5°	81.2	71.0	58.8	46.7	40.6	36.6	26.4	22.4	16.3	14.2	12.2
75°	58.8	50.7	42.6	32.4	28.4	26.4	20.3	14.2	12.2	10.1	8.1
77.5°	40.6	36.6	28.4	22.4	20.3	18.2	14.2	10.1	8.1	6.1	6.1
80°	26.4	22.4	18.2	14.2	14.2	12.2	8.1	6.1	6.1	4.0	4.0
82.5°	16.3	14.2	12.2	10.1	8.1	8.1	6.1	4.0	4.0	2.1	2.1
85°	10.1	8.1	6.1	6.1	4.0	4.0	4.0	2.1	2.1	2.1	2.1
87.5°	4.0	4.0	4.0	2.1	2.1	2.1	2.1	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3
2.5°	1678.3	1678.3	1682.3	1676.2	1680.3	1680.3	1684.4	1676.2	1680.3	1682.3	1686.4
5°	1670.2	1672.2	1676.2	1674.2	1676.2	1676.2	1680.3	1670.2	1678.3	1678.3	1684.4
7.5°	1662.0	1662.0	1666.1	1664.1	1668.1	1670.2	1674.2	1666.1	1674.2	1674.2	1680.3
10°	1651.9	1651.9	1658.0	1655.9	1662.0	1664.1	1670.2	1662.0	1670.2	1672.2	1678.3
12.5°	1637.7	1639.7	1645.8	1645.8	1651.9	1655.9	1662.0	1658.0	1668.1	1670.2	1678.3
15°	1621.4	1625.5	1633.6	1631.6	1637.7	1643.8	1651.9	1645.8	1660.0	1664.1	1672.2
17.5°	1601.1	1605.2	1611.3	1611.3	1617.4	1621.4	1631.6	1627.5	1639.7	1641.7	1651.9
20°	1570.7	1576.8	1584.9	1582.9	1589.0	1593.0	1601.1	1597.1	1609.3	1613.3	1623.5
22.5°	1534.2	1538.2	1544.3	1544.3	1550.4	1554.5	1562.6	1556.5	1568.7	1570.7	1578.8
25°	1485.5	1489.5	1493.6	1495.7	1501.7	1503.7	1507.8	1503.7	1513.9	1516.0	1526.0
27.5°	1422.5	1424.6	1430.7	1430.7	1434.8	1436.7	1442.8	1434.8	1448.9	1448.9	1455.1
30°	1347.5	1345.5	1353.6	1349.5	1353.6	1353.6	1359.7	1355.6	1365.8	1361.7	1367.8
32.5°	1248.0	1252.1	1252.1	1248.0	1256.2	1254.1	1254.1	1250.1	1256.2	1258.2	1262.2
35°	1132.4	1138.4	1138.4	1140.5	1142.6	1136.4	1138.4	1126.3	1136.4	1138.4	1140.5
37.5°	1006.6	1000.5	1004.5	998.4	1008.5	996.4	996.4	988.3	996.4	996.4	998.4
40°	862.5	860.4	864.5	860.4	858.4	856.4	852.3	846.2	854.3	850.3	856.4
42.5°	726.5	724.4	724.4	720.4	718.4	718.4	714.4	710.2	708.3	708.3	718.4
45°	586.5	590.5	586.5	584.5	588.5	584.5	586.5	578.4	582.4	578.4	582.4
47.5°	468.8	470.8	466.7	462.7	468.8	462.7	462.7	456.6	464.7	464.7	460.6
50°	363.2	361.2	357.1	361.2	359.2	359.2	359.2	353.1	357.1	351.0	355.2
52.5°	267.9	265.9	265.9	263.8	265.9	263.8	263.8	261.8	261.8	259.8	261.8
55°	194.8	192.8	188.7	188.7	188.7	190.8	188.7	186.7	186.7	184.7	186.7
57.5°	131.9	127.8	127.8	127.8	127.8	125.8	125.8	123.8	125.8	123.8	125.8
60°	85.2	85.2	81.2	81.2	81.2	81.2	81.2	79.1	81.2	81.2	81.2
62.5°	52.7	52.7	50.7	48.7	50.7	48.7	48.7	48.7	50.7	48.7	50.7
65°	34.5	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
67.5°	24.3	22.4	22.4	22.4	22.4	22.4	22.4	20.3	22.4	22.4	22.4
70°	16.3	16.3	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	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	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P684197

CATALOG NUMBER: LX6C30D010 EX6C309040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3	1680.3
2.5°	1680.3	1682.3	1678.3	1680.3	1676.2	1680.3	1682.3	1686.4
5°	1676.2	1678.3	1674.2	1678.3	1674.2	1678.3	1680.3	1684.4
7.5°	1672.2	1676.2	1672.2	1676.2	1672.2	1676.2	1678.3	1682.3
10°	1672.2	1678.3	1674.2	1680.3	1674.2	1678.3	1682.3	1684.4
12.5°	1672.2	1678.3	1676.2	1680.3	1678.3	1682.3	1686.4	1690.4
15°	1668.1	1674.2	1670.2	1676.2	1674.2	1676.2	1684.4	1684.4
17.5°	1645.8	1651.9	1651.9	1655.9	1655.9	1662.0	1666.1	1670.2
20°	1617.4	1623.5	1621.4	1627.5	1627.5	1633.6	1637.7	1641.7
22.5°	1574.8	1582.9	1580.8	1586.9	1584.9	1589.0	1597.1	1595.1
25°	1520.0	1530.1	1528.1	1532.1	1530.1	1530.1	1534.2	1536.2
27.5°	1453.0	1459.1	1457.0	1461.2	1457.0	1461.2	1465.2	1467.2
30°	1365.8	1369.8	1367.8	1369.8	1367.8	1371.8	1373.9	1377.9
32.5°	1260.2	1266.3	1260.2	1264.3	1262.2	1262.2	1270.4	1266.3
35°	1134.4	1136.4	1138.4	1138.4	1134.4	1136.4	1140.5	1140.5
37.5°	994.4	1004.5	992.4	998.4	996.4	996.4	996.4	1002.5
40°	848.3	850.3	846.2	846.2	846.2	844.2	852.3	850.3
42.5°	710.2	712.3	710.2	704.2	706.2	706.2	712.3	704.2
45°	576.3	580.4	578.4	578.4	574.3	574.3	576.3	572.3
47.5°	456.6	460.6	454.6	456.6	452.5	456.6	454.6	458.6
50°	347.0	351.0	349.1	351.0	351.0	347.0	353.1	345.0
52.5°	259.8	261.8	259.8	257.7	255.7	255.7	259.8	257.7
55°	184.7	182.6	182.6	182.6	184.7	184.7	182.6	180.6
57.5°	123.8	123.8	121.8	121.8	123.8	119.7	121.8	119.7
60°	79.1	79.1	79.1	79.1	77.2	79.1	79.1	79.1
62.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
65°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
67.5°	20.3	22.4	22.4	22.4	20.3	20.3	20.3	20.3
70°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0
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)