

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: P684230

Luminaire Tested: **LX6C35D010 EX6C359040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C35D010 EX6C359040 6LBLWWH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

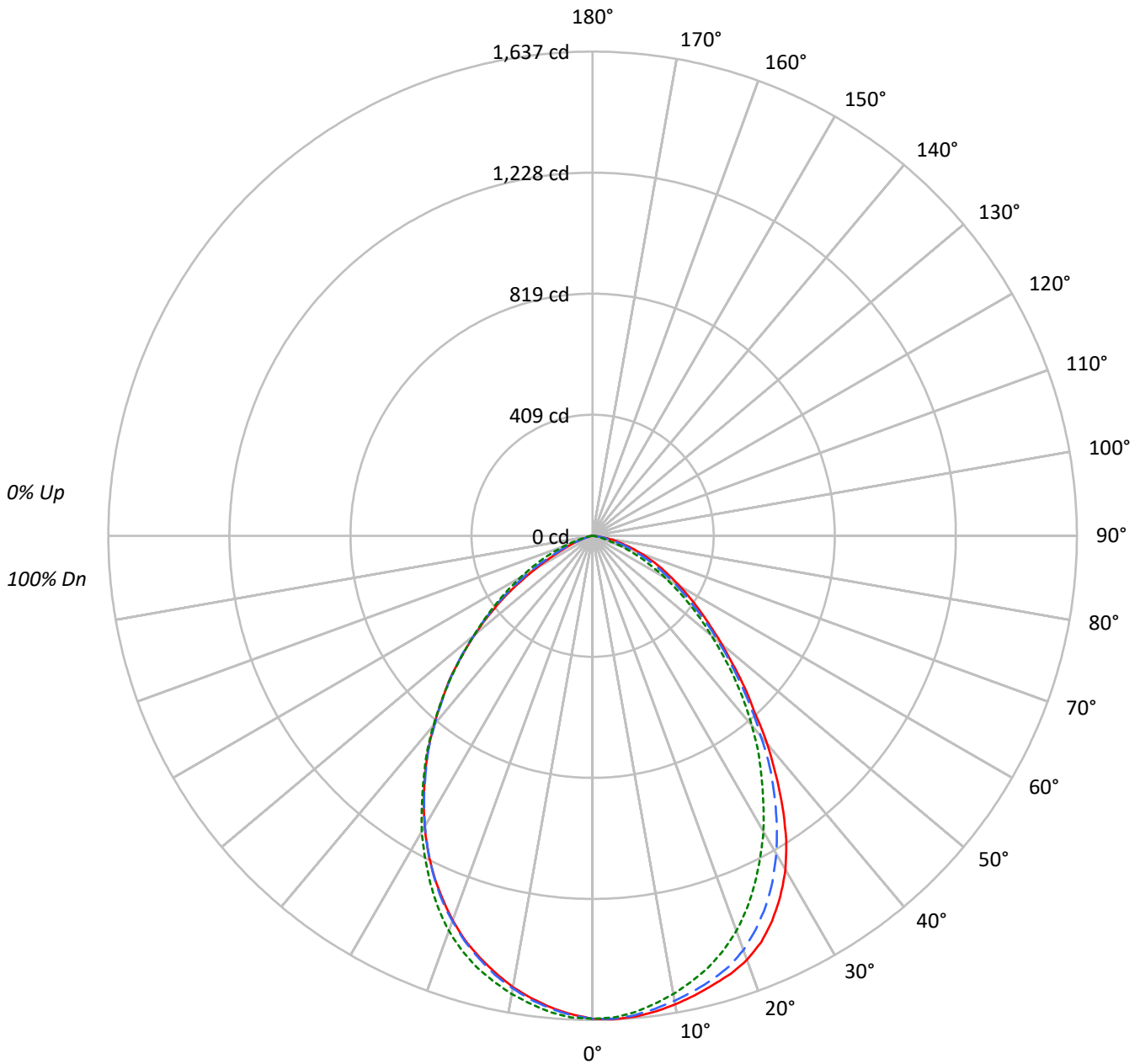
Lumens per Lamp: N/A
Luminaire Lumens: 2970.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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									
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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	89510	89510	89510
5°	89819	89005	88130
10°	89544	87562	86277
15°	89212	85755	83758
20°	89013	82928	80717
25°	86848	78482	76752
30°	82513	73100	71878
35°	74894	66555	66113
40°	65709	59898	59583
45°	56339	52339	52765
50°	48493	44604	44374
55°	42388	37667	35354
60°	37245	30875	24132
65°	32610	23920	14528
70°	27793	16092	8527
75°	22431	8366	4660
80°	15595	3283	2589
85°	6227	1006	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	5.2
10°-20°	427.2	14.4
20°-30°	608.0	20.5
30°-40°	639.9	21.5
40°-50°	533.3	18.0
50°-60°	360.3	12.1
60°-70°	182.7	6.2
70°-80°	59.0	2.0
80°-90°	6.8	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°	1188.2	40.0
0°-40°	1828.1	61.6
0°-60°	2721.6	91.6
0°-90°	2970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2970.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1633	1633	1633	1633	1633	
5°	1632	1627	1617	1605	1602	155
15°	1572	1555	1511	1481	1476	444
25°	1436	1384	1298	1271	1269	658
35°	1119	1071	994	985	988	696
45°	727	708	675	678	681	562
55°	444	422	394	382	370	399
65°	251	227	184	133	112	250
75°	106	83	40	21	22	114
85°	10	6	2	2	2	17
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°	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8
2.5°	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.1	1636.1	1635.0	1635.0	1634.4
5°	1632.2	1632.8	1632.8	1632.2	1632.2	1631.1	1631.1	1630.6	1629.0	1627.9	1627.3
7.5°	1622.9	1622.9	1622.4	1621.8	1621.3	1619.6	1619.1	1617.4	1616.3	1615.2	1613.0
10°	1608.6	1608.6	1608.1	1607.0	1606.4	1605.4	1605.4	1603.2	1601.0	1598.2	1596.6
12.5°	1591.6	1592.2	1591.1	1590.5	1588.9	1588.3	1587.2	1584.5	1582.8	1579.6	1576.8
15°	1571.9	1573.0	1573.0	1570.8	1569.1	1568.6	1566.9	1565.3	1561.4	1558.2	1554.9
17.5°	1552.7	1553.8	1552.7	1551.0	1549.4	1547.2	1546.1	1542.8	1537.8	1533.5	1528.5
20°	1525.8	1527.4	1525.2	1522.5	1519.2	1518.6	1517.0	1511.5	1504.4	1497.8	1490.6
22.5°	1487.9	1486.8	1485.2	1484.1	1478.6	1475.3	1473.1	1465.9	1458.3	1449.5	1440.7
25°	1435.8	1438.0	1434.7	1429.7	1427.0	1423.7	1418.2	1410.5	1403.4	1394.0	1383.6
27.5°	1374.3	1374.3	1369.9	1368.3	1362.2	1357.8	1355.1	1347.4	1338.1	1328.7	1317.2
30°	1303.5	1300.2	1300.2	1292.5	1287.6	1285.9	1283.2	1270.6	1262.3	1252.4	1240.9
32.5°	1217.9	1217.3	1215.1	1210.2	1203.6	1198.1	1198.1	1189.3	1178.4	1166.3	1159.1
35°	1119.1	1119.6	1118.5	1113.0	1113.0	1106.5	1105.4	1097.7	1088.9	1079.6	1070.8
37.5°	1017.0	1019.2	1017.0	1014.3	1012.6	1012.1	1007.1	1001.6	995.0	989.6	983.0
40°	918.2	914.9	916.0	910.5	911.1	910.0	907.8	900.6	896.8	891.3	884.2
42.5°	811.7	815.0	816.1	812.8	811.7	809.5	811.7	809.0	804.6	801.9	795.3
45°	726.7	723.4	725.0	723.9	724.5	720.1	718.4	717.3	715.7	710.7	708.0
47.5°	642.1	642.7	642.1	639.9	638.8	638.8	636.7	633.4	633.4	630.1	627.9
50°	568.6	568.6	569.7	567.0	565.9	563.7	564.2	560.9	558.7	556.0	554.3
52.5°	501.1	501.6	499.4	500.0	498.9	498.9	496.7	494.5	492.3	487.4	486.3
55°	443.5	444.0	441.3	442.4	439.1	437.4	436.3	433.0	433.0	428.1	422.1
57.5°	389.7	389.1	388.6	386.9	384.7	383.1	381.4	377.6	376.0	372.7	367.7
60°	339.7	339.2	338.1	337.5	335.9	332.0	332.0	329.3	323.8	320.5	315.6
62.5°	292.5	292.5	292.0	290.3	288.7	287.0	285.9	283.7	278.3	274.4	270.0
65°	251.4	250.8	249.2	246.4	245.3	245.3	241.5	239.8	235.5	231.6	226.7
67.5°	211.9	209.7	208.6	209.1	205.8	205.8	202.5	199.8	195.9	189.3	185.5
70°	173.4	172.3	171.2	170.1	169.6	167.4	165.7	162.5	158.6	153.7	147.6
72.5°	138.9	138.9	137.2	136.1	134.5	132.3	131.2	128.4	124.0	118.5	114.2
75°	105.9	105.9	105.9	103.7	102.6	101.5	98.2	96.6	91.7	88.4	82.9
77.5°	77.9	76.8	75.2	74.6	73.5	72.4	70.8	68.1	63.7	59.8	56.5
80°	49.4	51.0	49.4	49.4	46.7	45.6	45.0	41.7	40.1	36.8	34.0
82.5°	27.4	28.0	26.9	26.3	24.7	24.1	24.1	22.0	20.9	18.7	17.0
85°	9.9	10.4	9.9	9.9	8.8	9.3	8.8	8.2	7.1	6.0	5.5
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8
2.5°	1634.4	1633.3	1633.3	1632.8	1632.2	1632.2	1632.2	1631.7	1630.6	1630.6	1630.1
5°	1626.2	1625.1	1623.5	1622.4	1621.8	1621.3	1620.7	1620.2	1618.0	1617.4	1615.8
7.5°	1611.4	1610.3	1607.5	1606.4	1604.8	1604.3	1602.1	1601.0	1598.8	1596.6	1595.5
10°	1593.8	1591.1	1588.9	1586.1	1585.0	1583.4	1580.7	1577.4	1575.7	1573.0	1570.8
12.5°	1574.1	1570.8	1566.4	1563.1	1562.0	1559.2	1554.9	1552.1	1548.3	1543.9	1540.0
15°	1549.4	1545.5	1541.7	1535.6	1534.0	1530.7	1526.3	1520.8	1515.3	1511.0	1506.6
17.5°	1522.5	1516.4	1510.4	1503.8	1498.9	1497.2	1490.1	1482.4	1477.5	1469.8	1464.8
20°	1484.6	1476.4	1466.5	1459.9	1455.5	1450.6	1442.3	1434.1	1428.1	1421.5	1414.4
22.5°	1432.5	1424.8	1413.3	1403.4	1400.1	1393.0	1385.8	1378.1	1370.4	1363.3	1354.5
25°	1371.0	1362.8	1351.2	1341.4	1335.9	1332.6	1318.9	1311.2	1303.5	1297.5	1291.4
27.5°	1307.9	1293.1	1285.4	1270.0	1265.1	1264.0	1251.4	1243.1	1234.9	1226.7	1219.0
30°	1229.9	1218.4	1206.9	1195.9	1189.3	1185.5	1176.2	1165.7	1160.2	1154.8	1147.1
32.5°	1149.3	1138.8	1124.6	1114.1	1109.2	1103.7	1095.5	1088.3	1080.1	1074.1	1072.4
35°	1063.1	1051.6	1039.5	1031.8	1030.7	1024.1	1015.9	1009.9	1003.8	994.5	992.8
37.5°	970.9	964.3	956.1	945.1	940.2	940.2	931.9	927.5	919.9	919.3	914.9
40°	880.3	877.6	865.0	861.7	860.6	852.9	850.7	843.0	837.5	837.0	830.4
42.5°	790.9	783.7	781.5	776.1	771.1	770.0	765.1	761.8	759.6	756.3	753.0
45°	702.0	700.3	694.8	691.0	689.3	687.1	685.5	678.9	677.8	675.1	673.4
47.5°	625.1	620.7	615.8	611.4	610.9	607.6	603.7	603.7	597.7	597.1	596.0
50°	548.8	545.5	542.8	536.8	537.9	533.5	532.9	528.0	525.2	523.0	525.8
52.5°	481.9	475.3	474.2	469.3	467.6	468.2	462.1	460.5	459.4	457.2	456.1
55°	418.2	414.9	410.5	407.2	404.5	401.7	399.6	399.6	393.5	394.1	391.3
57.5°	362.2	359.5	354.0	349.1	348.0	344.7	341.9	339.2	338.6	334.8	332.0
60°	312.3	307.3	300.2	298.0	294.7	292.0	289.2	285.9	284.3	281.6	276.6
62.5°	265.6	257.4	254.7	250.3	246.4	244.8	240.4	236.5	233.8	230.0	226.1
65°	221.2	215.1	210.2	205.3	204.7	200.3	196.5	193.2	187.7	184.4	177.3
67.5°	180.6	175.1	169.6	164.7	160.8	159.7	153.7	149.8	146.0	139.4	133.4
70°	143.2	137.8	133.4	127.3	125.7	121.3	116.9	113.1	106.5	100.4	95.5
72.5°	109.2	103.2	98.2	93.9	91.1	87.3	82.9	78.5	71.9	65.9	61.5
75°	77.9	73.5	68.6	64.2	62.0	59.8	54.9	49.9	45.6	39.5	35.7
77.5°	52.7	48.3	43.9	40.1	37.3	35.7	32.4	28.5	24.7	21.4	18.7
80°	30.7	28.0	24.7	21.4	20.9	19.2	16.5	14.3	12.1	10.4	8.2
82.5°	14.8	13.2	11.0	9.3	8.2	7.7	6.6	5.5	4.4	3.8	3.8
85°	4.4	3.8	3.3	2.7	2.2	2.2	1.6	1.6	1.6	1.6	1.6
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8
2.5°	1628.4	1627.9	1627.3	1626.8	1625.7	1625.7	1624.0	1622.9	1622.9	1621.8	1621.3
5°	1614.1	1612.5	1611.9	1610.8	1609.7	1609.2	1607.0	1606.4	1605.4	1604.3	1604.3
7.5°	1593.8	1591.6	1589.4	1588.3	1587.8	1586.1	1585.0	1584.5	1582.8	1581.8	1579.6
10°	1566.9	1565.3	1562.5	1561.4	1560.3	1559.2	1556.5	1554.9	1554.3	1553.2	1552.1
12.5°	1535.6	1533.5	1530.7	1528.5	1527.4	1525.8	1523.0	1521.4	1521.4	1519.2	1519.2
15°	1502.2	1498.9	1493.9	1491.7	1491.2	1487.9	1485.7	1483.5	1480.8	1479.7	1479.7
17.5°	1459.4	1453.9	1449.5	1449.5	1447.3	1444.0	1440.7	1439.1	1437.4	1435.2	1434.1
20°	1408.9	1405.0	1400.1	1400.1	1395.1	1394.0	1390.8	1390.2	1386.4	1386.9	1385.3
22.5°	1347.9	1345.8	1343.0	1340.8	1338.1	1334.8	1333.1	1333.7	1332.0	1331.5	1330.9
25°	1286.5	1280.4	1277.1	1276.0	1275.0	1272.2	1271.1	1270.6	1270.6	1268.9	1269.5
27.5°	1215.7	1211.3	1206.9	1208.5	1206.3	1204.7	1203.6	1202.0	1203.1	1202.5	1203.1
30°	1143.2	1137.7	1135.0	1136.1	1135.5	1131.2	1133.4	1132.8	1133.4	1133.4	1134.4
32.5°	1066.9	1063.1	1062.6	1063.1	1058.2	1058.7	1056.5	1059.8	1060.4	1063.6	1060.9
35°	989.6	987.4	983.5	983.0	983.5	983.0	983.0	985.2	984.6	987.9	986.8
37.5°	910.0	908.9	905.0	906.1	903.9	907.8	908.9	907.8	911.6	910.5	910.0
40°	832.0	830.4	828.2	832.6	829.8	827.6	831.5	828.2	829.3	832.6	832.6
42.5°	753.0	750.3	750.3	750.3	749.7	749.7	751.4	753.0	751.9	752.5	756.8
45°	673.4	672.9	671.2	672.3	671.8	674.5	674.5	675.6	677.8	680.0	678.9
47.5°	596.6	595.5	597.1	596.0	596.6	594.9	596.0	599.3	602.1	598.2	602.1
50°	524.7	522.5	521.9	523.6	523.0	522.5	523.6	523.6	522.5	522.5	526.3
52.5°	456.1	453.9	452.2	455.0	453.3	453.9	451.7	451.7	452.8	451.7	450.0
55°	391.9	390.2	388.0	389.1	386.4	385.8	383.6	383.6	382.0	380.9	377.6
57.5°	330.4	329.3	324.4	323.8	324.4	320.5	316.7	315.0	310.6	309.5	309.0
60°	276.1	270.0	267.3	264.0	261.8	260.1	255.8	253.0	246.4	242.6	242.0
62.5°	219.5	216.8	213.5	208.6	207.5	202.0	197.6	190.4	187.2	182.2	177.3
65°	174.0	166.8	161.9	159.2	154.8	149.8	144.9	137.2	133.4	127.3	122.4
67.5°	127.3	121.3	114.7	112.5	108.7	102.6	97.7	91.1	87.8	82.3	80.7
70°	87.3	81.8	76.8	73.5	70.8	64.8	59.8	57.6	54.3	53.2	53.2
72.5°	56.0	51.0	45.6	43.9	41.7	38.4	35.1	34.0	35.1	34.6	34.6
75°	31.3	28.5	24.7	23.1	23.1	22.0	21.4	21.4	21.4	21.4	21.4
77.5°	15.9	14.3	13.2	12.6	12.6	12.6	13.2	13.2	13.2	13.7	13.2
80°	7.7	7.1	7.1	7.1	7.7	7.7	7.7	7.7	7.7	8.2	7.7
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	4.4	4.4	4.4	4.4	4.4
85°	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P684230

CATALOG NUMBER: LX6C35D010 EX6C359040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8
2.5°	1620.7	1619.6	1619.6	1619.1	1619.1	1619.1	1619.1	1619.6
5°	1603.2	1602.6	1602.6	1601.5	1601.5	1601.5	1601.5	1601.5
7.5°	1579.6	1578.5	1579.0	1577.9	1577.9	1578.5	1577.9	1577.4
10°	1550.5	1549.9	1550.5	1550.5	1549.4	1548.8	1549.4	1549.9
12.5°	1517.5	1517.0	1515.9	1516.4	1516.4	1515.9	1515.3	1514.2
15°	1479.1	1478.6	1478.0	1477.5	1476.9	1477.5	1476.9	1475.8
17.5°	1434.1	1434.1	1433.6	1433.0	1432.5	1431.4	1431.9	1433.6
20°	1385.8	1385.3	1384.2	1384.7	1382.5	1381.4	1382.0	1383.6
22.5°	1330.4	1328.7	1329.8	1328.2	1328.2	1328.7	1328.2	1327.1
25°	1270.0	1267.8	1268.9	1269.5	1269.5	1268.9	1268.4	1268.9
27.5°	1203.1	1204.7	1204.7	1203.6	1205.2	1203.1	1204.2	1204.7
30°	1134.4	1132.8	1132.3	1134.4	1137.7	1135.0	1135.0	1135.5
32.5°	1063.6	1061.5	1061.5	1062.6	1062.0	1062.0	1064.2	1061.5
35°	987.9	989.0	984.6	987.4	988.5	987.4	987.9	987.9
37.5°	911.6	910.5	910.5	910.5	912.2	912.2	913.3	912.7
40°	836.4	834.2	833.7	834.8	832.6	834.2	834.2	832.6
42.5°	755.2	755.8	758.5	755.8	756.3	755.8	754.7	754.1
45°	680.0	681.7	680.6	680.0	680.6	678.4	678.9	680.6
47.5°	600.4	603.7	600.4	602.6	602.1	601.0	599.9	597.7
50°	525.8	526.9	526.3	525.8	525.2	524.7	521.9	520.3
52.5°	449.5	449.5	449.5	449.5	444.0	446.8	445.7	442.4
55°	374.9	376.5	374.3	374.3	370.5	370.5	369.4	369.9
57.5°	303.0	301.3	299.7	299.7	295.8	294.2	292.5	290.3
60°	236.0	234.4	232.2	229.4	225.6	225.6	224.5	220.1
62.5°	172.9	170.1	168.5	166.3	163.0	160.8	159.2	160.3
65°	118.5	115.8	113.6	113.6	113.6	112.5	112.0	112.0
67.5°	77.9	79.6	78.5	79.6	79.6	78.5	77.9	79.0
70°	53.8	53.8	53.2	53.2	53.2	53.2	52.7	53.2
72.5°	34.6	34.6	34.6	35.1	34.6	34.6	35.1	35.1
75°	22.0	22.0	22.0	22.5	22.0	22.0	22.5	22.0
77.5°	13.2	13.7	13.7	13.7	13.7	13.2	13.7	13.7
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)