

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: P684935

Luminaire Tested: **LX6C25D010 EX6259050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C25D010 EX6259050 6LCSWLI
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

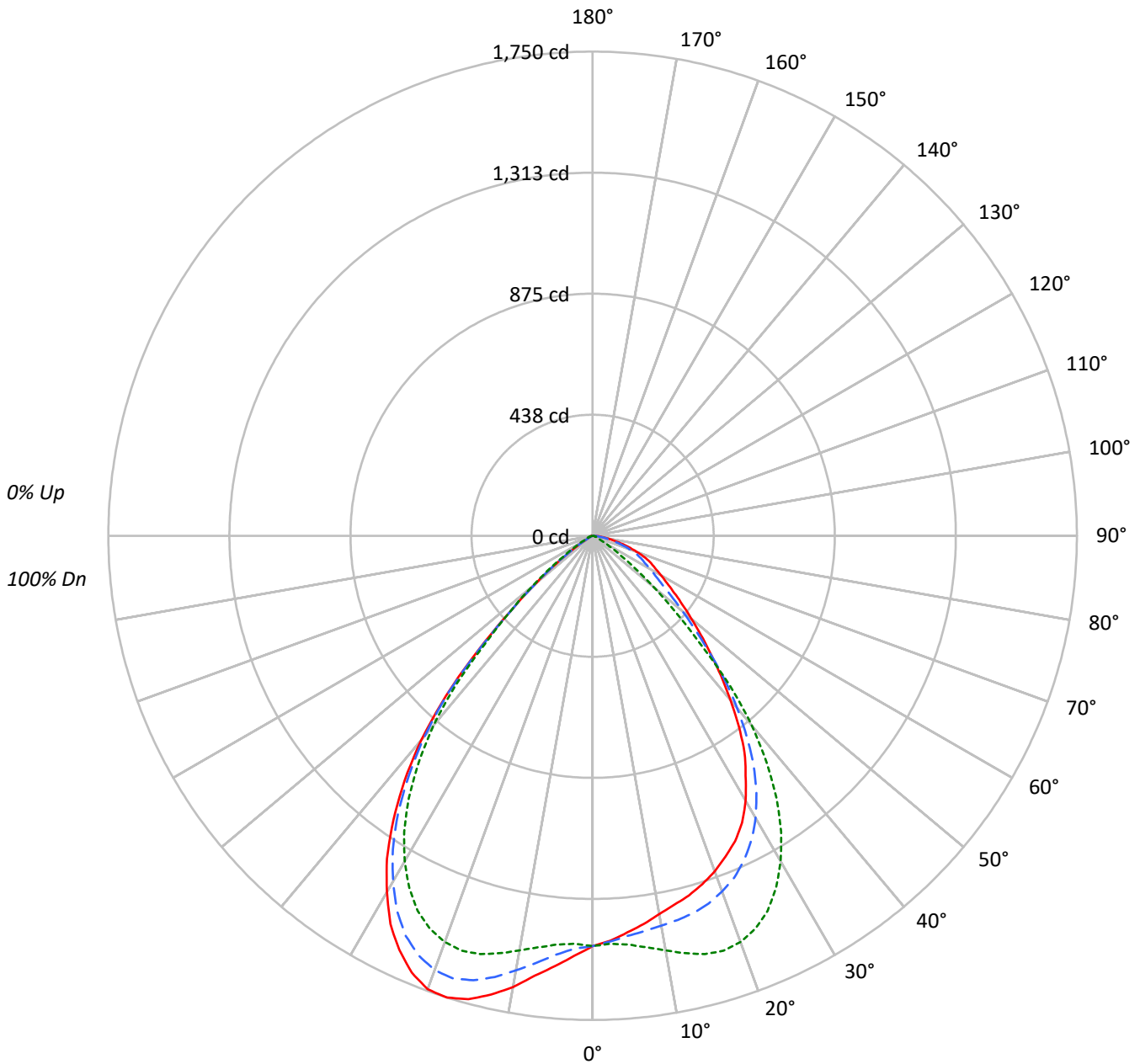
Lumens per Lamp: N/A
Luminaire Lumens: 2711.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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

TEST NUMBER: P684935

CATALOG NUMBER: LX6C25D010 EX6259050 6LCSWLI

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	81304	81304	81304
5°	79199	81614	85907
10°	77270	84690	92188
15°	76368	88843	98417
20°	75274	91154	101742
25°	73674	90483	99919
30°	70011	85988	94065
35°	64052	77524	83975
40°	55404	64027	68893
45°	46718	41997	45067
50°	39666	24306	22856
55°	34426	11651	8803
60°	31094	5438	2171
65°	30159	3126	726
70°	27040	2500	689
75°	22219	1800	297
80°	16543	884	0
85°	14278	0	0



TEST NUMBER: P684935

CATALOG NUMBER: LX6C25D010 EX6259050 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	5.3
10°-20°	436.6	16.1
20°-30°	667.1	24.6
30°-40°	697.7	25.7
40°-50°	452.6	16.7
50°-60°	179.7	6.6
60°-70°	85.2	3.1
70°-80°	40.5	1.5
80°-90°	8.3	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°	1246.9	46.0
0°-40°	1944.6	71.7
0°-60°	2576.9	95.1
0°-90°	2711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1483	1483	1483	1483	1483	
5°	1439	1452	1483	1520	1561	136
15°	1346	1411	1565	1663	1734	379
25°	1218	1294	1496	1596	1652	558
35°	957	1015	1158	1226	1255	592
45°	603	597	542	574	581	469
55°	360	306	122	95	92	326
65°	232	193	24	6	6	227
75°	105	85	8	3	1	113
85°	23	14	0	0	0	26
90°	0	0	0	0	0	



TEST NUMBER: P684935

CATALOG NUMBER: LX6C25D010 EX6259050 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1464.7	1467.5	1452.0	1447.7	1459.0	1463.3	1464.7	1460.4	1461.9	1467.5	1467.5
5°	1439.2	1442.0	1427.8	1423.6	1434.9	1437.8	1442.0	1440.6	1444.9	1453.3	1452.0
7.5°	1415.1	1419.3	1403.7	1398.1	1412.3	1419.3	1422.2	1422.2	1427.8	1439.2	1440.6
10°	1388.1	1393.8	1379.6	1376.8	1392.4	1399.5	1400.9	1403.7	1412.3	1427.8	1430.6
12.5°	1365.5	1371.1	1361.2	1356.9	1373.9	1381.0	1383.9	1389.6	1399.5	1419.3	1422.2
15°	1345.6	1349.9	1338.5	1335.7	1352.7	1361.2	1362.6	1371.1	1383.9	1406.6	1410.8
17.5°	1320.1	1322.9	1314.4	1311.6	1328.6	1337.1	1338.5	1348.4	1364.0	1386.7	1393.8
20°	1290.3	1293.1	1284.6	1281.8	1298.8	1308.7	1310.1	1318.7	1337.1	1361.2	1368.3
22.5°	1254.8	1260.5	1250.6	1247.7	1264.8	1273.3	1277.5	1284.6	1303.1	1327.1	1337.1
25°	1218.0	1218.0	1210.9	1209.5	1225.1	1235.0	1233.6	1243.5	1261.9	1286.1	1294.5
27.5°	1169.8	1168.3	1161.2	1159.9	1176.9	1185.4	1182.5	1192.5	1209.5	1233.6	1242.1
30°	1106.0	1108.8	1098.9	1096.0	1110.2	1124.4	1123.0	1132.9	1149.9	1172.6	1178.3
32.5°	1029.4	1032.2	1030.8	1026.6	1039.3	1046.4	1050.7	1057.8	1071.9	1096.0	1101.7
35°	957.1	952.8	947.2	947.2	959.9	971.3	967.0	975.5	989.7	1013.8	1015.2
37.5°	867.8	866.3	863.5	860.7	874.9	877.7	879.1	884.8	897.6	917.4	914.6
40°	774.2	775.6	774.2	768.5	777.0	788.4	786.9	789.8	801.1	815.3	811.1
42.5°	686.2	686.2	686.2	680.6	690.5	696.2	699.0	697.6	700.4	713.2	707.5
45°	602.6	604.0	602.6	601.2	602.6	605.5	602.6	601.2	601.2	605.5	596.9
47.5°	530.3	530.3	526.1	521.8	526.1	527.4	523.2	519.0	517.5	516.1	502.0
50°	465.1	463.6	462.3	455.2	459.4	460.8	455.2	452.3	446.6	439.6	422.6
52.5°	408.4	406.9	405.5	398.4	401.3	402.7	397.0	391.3	384.2	378.6	357.3
55°	360.2	358.7	358.7	354.5	351.6	354.5	348.8	344.5	334.6	327.5	306.3
57.5°	319.0	319.0	316.2	311.9	313.4	313.4	307.7	302.0	293.5	285.0	268.0
60°	283.6	283.6	283.6	279.3	279.3	279.3	276.5	270.8	263.7	255.2	238.2
62.5°	255.2	255.2	253.8	249.6	251.0	251.0	248.1	242.5	235.4	229.7	212.7
65°	232.5	232.5	232.5	228.3	228.3	229.7	226.9	221.2	215.5	208.4	192.8
67.5°	204.2	202.8	202.8	199.9	201.3	202.8	199.9	195.7	188.6	184.3	170.2
70°	168.7	170.2	171.5	167.3	168.7	168.7	167.3	163.1	158.8	154.5	141.8
72.5°	137.5	137.5	136.1	134.7	134.7	136.1	133.3	129.0	126.2	123.4	113.4
75°	104.9	103.5	104.9	102.1	102.1	102.1	99.2	97.8	96.4	92.1	85.1
77.5°	76.6	75.1	75.1	72.3	73.8	73.8	72.3	69.5	66.6	65.2	59.5
80°	52.4	52.4	52.4	51.1	51.1	49.6	49.6	48.2	45.4	44.0	41.1
82.5°	35.4	35.4	35.4	34.1	34.1	34.1	32.6	31.2	29.8	28.4	25.5
85°	22.7	22.7	22.7	21.3	21.3	21.3	19.8	19.8	18.4	17.0	14.2
87.5°	12.7	12.7	12.7	11.4	11.4	11.4	11.4	11.4	9.9	8.5	7.1
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: P684935

CATALOG NUMBER: LX6C25D010 EX6259050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1477.4	1457.6	1470.3	1470.3	1466.1	1477.4	1484.6	1490.2	1488.8	1476.0	1474.6
5°	1466.1	1449.1	1463.3	1464.7	1460.4	1476.0	1486.0	1493.0	1494.5	1483.1	1484.6
7.5°	1457.6	1443.4	1461.9	1467.5	1466.1	1480.3	1491.7	1503.0	1508.7	1500.1	1501.6
10°	1453.3	1442.0	1461.9	1470.3	1471.8	1487.4	1504.4	1520.0	1527.1	1521.4	1525.7
12.5°	1447.7	1440.6	1463.3	1476.0	1481.7	1497.3	1518.6	1537.0	1548.4	1545.5	1554.0
15°	1442.0	1436.3	1463.3	1481.7	1488.8	1503.0	1527.1	1554.0	1566.8	1565.4	1576.7
17.5°	1427.8	1426.4	1454.8	1474.6	1484.6	1501.6	1524.2	1556.8	1569.6	1572.5	1586.6
20°	1405.2	1405.2	1436.3	1457.6	1469.0	1484.6	1512.9	1544.1	1559.7	1562.5	1578.2
22.5°	1373.9	1376.8	1406.6	1427.8	1444.9	1456.2	1486.0	1518.6	1532.8	1537.0	1554.0
25°	1332.8	1335.7	1364.0	1385.3	1403.7	1416.5	1444.9	1474.6	1491.7	1495.9	1508.7
27.5°	1279.0	1284.6	1311.6	1332.8	1348.4	1356.9	1386.7	1417.9	1430.6	1434.9	1447.7
30°	1216.6	1218.0	1244.9	1263.4	1279.0	1286.1	1311.6	1344.2	1354.1	1358.4	1376.8
32.5°	1140.0	1138.6	1164.1	1181.1	1193.9	1202.4	1229.3	1250.6	1260.5	1267.6	1277.5
35°	1047.8	1046.4	1064.8	1084.7	1094.6	1097.5	1124.4	1147.1	1152.8	1158.4	1171.2
37.5°	944.3	944.3	959.9	969.9	981.2	985.4	998.2	1023.8	1033.7	1032.2	1042.1
40°	835.1	829.5	840.8	850.8	853.6	855.0	867.8	887.6	894.7	894.7	901.8
42.5°	720.3	711.8	713.2	718.9	721.7	711.8	720.3	733.0	728.8	734.5	735.9
45°	598.4	585.6	579.9	567.1	570.0	560.1	554.4	557.2	555.8	541.7	544.5
47.5°	499.1	476.4	466.5	448.1	443.8	432.5	425.4	412.6	401.3	401.3	394.2
50°	415.5	392.8	372.9	351.6	344.5	334.6	319.0	302.0	293.5	285.0	277.9
52.5°	348.8	324.7	300.6	277.9	268.0	255.2	234.0	217.0	201.3	192.8	184.3
55°	294.9	268.0	242.5	218.3	205.6	192.8	171.5	151.7	133.3	121.9	114.8
57.5°	253.8	228.3	201.3	175.8	164.5	150.3	127.6	106.3	89.3	76.6	69.5
60°	224.0	198.5	174.4	147.5	136.1	121.9	97.8	78.0	61.0	49.6	41.1
62.5°	198.5	175.8	150.3	126.2	114.8	100.7	78.0	58.1	42.5	31.2	24.1
65°	180.1	157.4	136.1	112.0	102.1	87.9	66.6	48.2	34.1	24.1	17.0
67.5°	158.8	138.9	117.7	97.8	87.9	76.6	56.7	41.1	28.4	19.8	14.2
70°	133.3	117.7	99.2	80.8	73.8	63.8	46.8	34.1	22.7	15.6	11.4
72.5°	106.3	93.6	79.4	65.2	59.5	49.6	38.3	27.0	17.0	11.4	8.5
75°	80.8	70.9	59.5	49.6	44.0	38.3	28.4	19.8	12.7	8.5	5.6
77.5°	55.3	51.1	42.5	34.1	31.2	27.0	18.4	12.7	8.5	5.6	2.8
80°	38.3	34.1	28.4	22.7	19.8	17.0	11.4	8.5	4.3	2.8	1.4
82.5°	24.1	19.8	17.0	14.2	12.7	9.9	7.1	4.3	2.8	1.4	1.4
85°	12.7	11.4	9.9	7.1	7.1	5.6	4.3	2.8	1.4	0.0	0.0
87.5°	7.1	5.6	4.3	2.8	2.8	1.4	1.4	1.4	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



TEST NUMBER: P684935

CATALOG NUMBER: LX6C25D010 EX6259050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1491.7	1491.7	1490.2	1507.2	1487.4	1507.2	1497.3	1507.2	1493.0	1491.7	1493.0
5°	1503.0	1507.2	1508.7	1524.2	1505.8	1529.9	1521.4	1529.9	1520.0	1522.8	1527.1
7.5°	1525.7	1532.8	1531.4	1551.2	1532.8	1559.7	1554.0	1566.8	1556.8	1559.7	1565.4
10°	1551.2	1559.7	1561.1	1581.0	1563.9	1596.5	1589.5	1603.6	1595.2	1599.4	1606.5
12.5°	1581.0	1590.9	1592.3	1615.0	1596.5	1630.6	1626.3	1640.5	1633.4	1637.7	1646.2
15°	1603.6	1617.8	1620.7	1643.3	1623.5	1658.9	1656.1	1674.6	1663.2	1670.3	1677.4
17.5°	1615.0	1627.8	1633.4	1654.7	1637.7	1673.1	1670.3	1685.9	1677.4	1684.5	1693.0
20°	1607.9	1623.5	1627.8	1649.0	1632.0	1667.5	1663.2	1678.8	1670.3	1675.9	1684.5
22.5°	1582.4	1598.0	1603.6	1623.5	1607.9	1640.5	1639.1	1653.3	1641.9	1649.0	1656.1
25°	1537.0	1554.0	1556.8	1575.3	1558.3	1592.3	1589.5	1605.1	1596.5	1600.8	1610.7
27.5°	1471.8	1491.7	1495.9	1511.5	1498.8	1527.1	1527.1	1539.8	1529.9	1529.9	1539.8
30°	1393.8	1413.6	1416.5	1429.3	1417.9	1443.4	1444.9	1457.6	1442.0	1450.5	1452.0
32.5°	1298.8	1311.6	1320.1	1331.4	1314.4	1347.0	1342.8	1352.7	1344.2	1344.2	1351.3
35°	1184.0	1199.6	1203.8	1218.0	1203.8	1229.3	1229.3	1235.0	1226.5	1226.5	1237.8
37.5°	1059.2	1070.5	1071.9	1086.1	1074.8	1096.0	1094.6	1098.9	1090.4	1096.0	1096.0
40°	913.1	921.6	924.5	931.6	930.2	945.7	944.3	947.2	942.9	944.3	947.2
42.5°	743.0	754.3	760.0	765.7	757.2	778.4	774.2	778.4	777.0	778.4	782.7
45°	547.3	555.8	560.1	561.5	558.7	571.4	581.3	572.8	574.2	571.4	577.1
47.5°	395.6	397.0	394.2	402.7	395.6	401.3	404.1	405.5	397.0	395.6	401.3
50°	270.8	277.9	268.0	272.2	270.8	276.5	273.7	275.1	266.6	270.8	268.0
52.5°	180.1	178.6	175.8	177.3	174.4	174.4	174.4	177.3	171.5	168.7	165.9
55°	109.2	106.3	100.7	99.2	99.2	100.7	97.8	95.0	95.0	93.6	93.6
57.5°	63.8	59.5	56.7	55.3	52.4	51.1	49.6	49.6	46.8	46.8	46.8
60°	35.4	31.2	28.4	25.5	25.5	24.1	22.7	21.3	21.3	21.3	19.8
62.5°	18.4	15.6	12.7	11.4	11.4	9.9	8.5	8.5	8.5	8.5	7.1
65°	12.7	9.9	8.5	7.1	7.1	5.6	5.6	5.6	5.6	5.6	5.6
67.5°	9.9	8.5	7.1	5.6	5.6	5.6	4.3	4.3	4.3	4.3	4.3
70°	8.5	5.6	5.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	5.6	5.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
80°	1.4	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



TEST NUMBER: P684935

CATALOG NUMBER: LX6C25D010 EX6259050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1505.8	1504.4	1505.8	1508.7	1503.0	1520.0	1511.5	1520.0
5°	1538.5	1539.8	1541.3	1545.5	1538.5	1559.7	1548.4	1561.1
7.5°	1581.0	1582.4	1583.8	1588.1	1583.8	1605.1	1592.3	1603.6
10°	1624.9	1627.8	1627.8	1634.9	1630.6	1650.4	1641.9	1656.1
12.5°	1666.0	1668.9	1671.7	1675.9	1673.1	1694.4	1687.3	1698.7
15°	1698.7	1704.3	1705.7	1711.4	1708.6	1731.3	1722.7	1734.1
17.5°	1714.3	1719.9	1719.9	1727.0	1724.2	1748.3	1736.9	1749.7
20°	1705.7	1710.0	1711.4	1718.5	1715.7	1739.8	1728.4	1744.0
22.5°	1678.8	1680.2	1681.7	1688.7	1687.3	1708.6	1698.7	1708.6
25°	1629.2	1633.4	1632.0	1637.7	1637.7	1654.7	1643.3	1651.9
27.5°	1558.3	1562.5	1562.5	1569.6	1563.9	1581.0	1569.6	1582.4
30°	1471.8	1476.0	1473.2	1478.9	1473.2	1490.2	1481.7	1486.0
32.5°	1368.3	1368.3	1369.7	1371.1	1368.3	1383.9	1375.4	1383.9
35°	1244.9	1247.7	1249.2	1250.6	1247.7	1259.1	1249.2	1254.8
37.5°	1106.0	1113.1	1111.6	1113.1	1108.8	1123.0	1114.5	1117.3
40°	957.1	957.1	955.6	958.5	954.3	965.6	959.9	962.7
42.5°	784.1	788.4	782.7	789.8	778.4	794.0	788.4	784.1
45°	588.5	582.8	581.3	582.8	578.5	579.9	584.2	581.3
47.5°	401.3	401.3	398.4	394.2	399.9	401.3	395.6	395.6
50°	269.4	269.4	266.6	265.1	268.0	266.6	263.7	268.0
52.5°	171.5	165.9	165.9	168.7	165.9	163.1	167.3	164.5
55°	93.6	90.8	90.8	93.6	90.8	90.8	89.3	92.1
57.5°	45.4	46.8	45.4	45.4	45.4	45.4	44.0	45.4
60°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
62.5°	8.5	8.5	7.1	7.1	7.1	7.1	7.1	7.1
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
67.5°	4.3	4.3	4.3	4.3	4.3	5.6	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	4.3	4.3	5.6	5.6	5.6	5.6	5.6	5.6
75°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
77.5°	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
82.5°	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
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)