

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: P684920

Luminaire Tested: **LX6C25D010 EX6259030 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684920  
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 EX6259030 6LCSWLI  
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

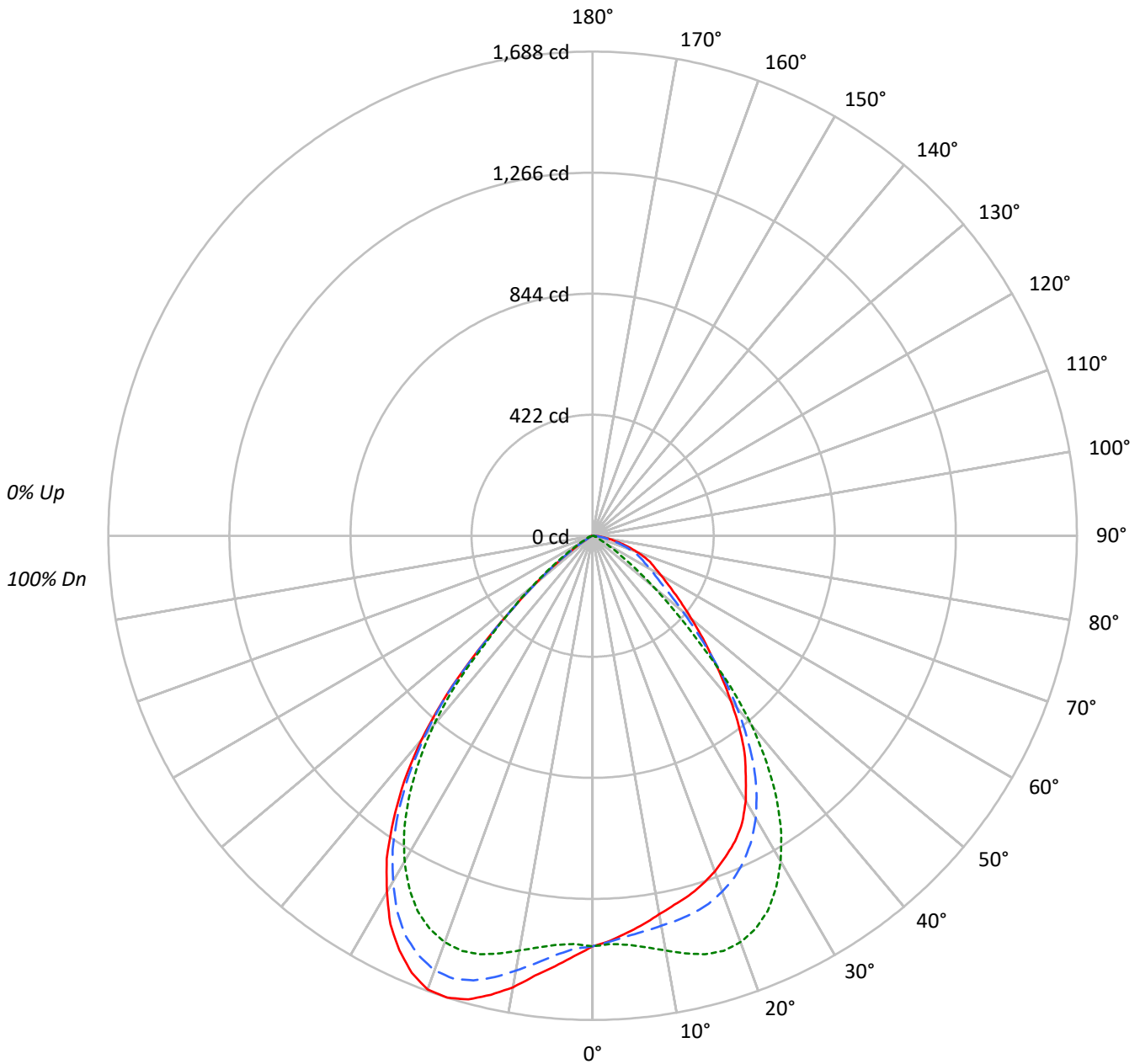
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2616.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 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<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				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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

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

	0°	90°	180°
0°	78459	78459	78459
5°	76420	78758	82897
10°	74564	81723	88960
15°	73689	85727	94966
20°	72637	87963	98178
25°	71091	87314	96417
30°	67555	82975	90767
35°	61803	74807	81037
40°	53464	61780	66482
45°	45082	40524	43485
50°	38276	23453	22055
55°	33213	11249	8497
60°	29998	5252	2094
65°	29108	3009	713
70°	26094	2420	657
75°	21456	1737	297
80°	15974	852	0
85°	13775	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	5.3
10°-20°	421.3	16.1
20°-30°	643.7	24.6
30°-40°	673.3	25.7
40°-50°	436.7	16.7
50°-60°	173.4	6.6
60°-70°	82.3	3.1
70°-80°	39.1	1.5
80°-90°	8.0	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°	1203.2	46.0
0°-40°	1876.5	71.7
0°-60°	2486.6	95.1
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1431	1431	1431	1431	1431	
5°	1389	1401	1431	1467	1506	131
15°	1298	1361	1510	1605	1673	366
25°	1175	1249	1444	1541	1594	538
35°	924	980	1118	1184	1211	571
45°	582	576	523	554	561	452
55°	348	296	118	92	89	315
65°	224	186	23	6	6	219
75°	101	82	8	3	1	109
85°	22	14	0	0	0	25
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°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1413.4	1416.1	1401.1	1397.0	1407.9	1412.0	1413.4	1409.3	1410.6	1416.1	1416.1
5°	1388.7	1391.5	1377.8	1373.7	1384.6	1387.4	1391.5	1390.1	1394.2	1402.4	1401.1
7.5°	1365.5	1369.6	1354.5	1349.1	1362.8	1369.6	1372.3	1372.3	1377.8	1388.7	1390.1
10°	1339.5	1345.0	1331.3	1328.5	1343.6	1350.4	1351.8	1354.5	1362.8	1377.8	1380.5
12.5°	1317.6	1323.1	1313.5	1309.4	1325.8	1332.6	1335.4	1340.9	1350.4	1369.6	1372.3
15°	1298.4	1302.5	1291.6	1288.9	1305.3	1313.5	1314.8	1323.1	1335.4	1357.3	1361.4
17.5°	1273.8	1276.5	1268.4	1265.6	1282.0	1290.2	1291.6	1301.2	1316.2	1338.1	1345.0
20°	1245.1	1247.8	1239.6	1236.9	1253.3	1262.8	1264.2	1272.5	1290.2	1313.5	1320.3
22.5°	1210.9	1216.4	1206.8	1204.0	1220.5	1228.7	1232.8	1239.6	1257.4	1280.6	1290.2
25°	1175.3	1175.3	1168.5	1167.1	1182.2	1191.7	1190.3	1199.9	1217.7	1241.0	1249.2
27.5°	1128.8	1127.4	1120.6	1119.2	1135.6	1143.9	1141.1	1150.7	1167.1	1190.3	1198.6
30°	1067.2	1070.0	1060.4	1057.6	1071.3	1085.0	1083.6	1093.2	1109.6	1131.5	1137.0
32.5°	993.3	996.1	994.7	990.6	1002.9	1009.7	1013.8	1020.7	1034.4	1057.6	1063.1
35°	923.5	919.4	914.0	914.0	926.3	937.2	933.1	941.3	955.0	978.3	979.6
37.5°	837.4	836.0	833.2	830.5	844.2	846.9	848.3	853.8	866.1	885.2	882.5
40°	747.1	748.4	747.1	741.6	749.8	760.7	759.3	762.1	773.0	786.7	782.6
42.5°	662.2	662.2	662.2	656.8	666.3	671.8	674.5	673.2	675.9	688.2	682.7
45°	581.5	582.9	581.5	580.1	581.5	584.2	581.5	580.1	580.1	584.2	576.0
47.5°	511.7	511.7	507.6	503.5	507.6	509.0	504.9	500.8	499.4	498.1	484.4
50°	448.8	447.4	446.1	439.2	443.3	444.7	439.2	436.4	431.0	424.2	407.8
52.5°	394.1	392.7	391.3	384.5	387.2	388.6	383.1	377.6	370.8	365.3	344.8
55°	347.5	346.1	346.1	342.1	339.3	342.1	336.6	332.5	322.9	316.1	295.5
57.5°	307.8	307.8	305.1	301.0	302.4	302.4	296.9	291.4	283.2	275.0	258.6
60°	273.6	273.6	273.6	269.5	269.5	269.5	266.8	261.3	254.5	246.3	229.9
62.5°	246.3	246.3	244.9	240.8	242.2	242.2	239.4	234.0	227.1	221.6	205.2
65°	224.4	224.4	224.4	220.3	220.3	221.6	218.9	213.5	208.0	201.1	186.1
67.5°	197.0	195.7	195.7	192.9	194.3	195.7	192.9	188.8	182.0	177.9	164.2
70°	162.8	164.2	165.5	161.5	162.8	162.8	161.5	157.4	153.2	149.1	136.8
72.5°	132.7	132.7	131.3	130.0	130.0	131.3	128.6	124.5	121.8	119.0	109.4
75°	101.3	99.9	101.3	98.5	98.5	98.5	95.8	94.4	93.0	88.9	82.1
77.5°	73.9	72.5	72.5	69.8	71.2	71.2	69.8	67.1	64.3	62.9	57.4
80°	50.6	50.6	50.6	49.3	49.3	47.9	47.9	46.5	43.8	42.4	39.7
82.5°	34.2	34.2	34.2	32.9	32.9	32.9	31.5	30.1	28.7	27.4	24.6
85°	21.9	21.9	21.9	20.5	20.5	20.5	19.1	19.1	17.8	16.4	13.7
87.5°	12.3	12.3	12.3	11.0	11.0	11.0	11.0	11.0	9.6	8.2	6.8
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°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1425.7	1406.5	1418.8	1418.8	1414.8	1425.7	1432.6	1438.0	1436.6	1424.3	1422.9
5°	1414.8	1398.3	1412.0	1413.4	1409.3	1424.3	1433.9	1440.7	1442.1	1431.2	1432.6
7.5°	1406.5	1392.9	1410.6	1416.1	1414.8	1428.4	1439.4	1450.3	1455.8	1447.6	1449.0
10°	1402.4	1391.5	1410.6	1418.8	1420.2	1435.3	1451.7	1466.7	1473.6	1468.1	1472.2
12.5°	1397.0	1390.1	1412.0	1424.3	1429.8	1444.8	1465.4	1483.2	1494.1	1491.4	1499.6
15°	1391.5	1386.0	1412.0	1429.8	1436.6	1450.3	1473.6	1499.6	1511.9	1510.5	1521.5
17.5°	1377.8	1376.4	1403.8	1422.9	1432.6	1449.0	1470.8	1502.3	1514.6	1517.4	1531.0
20°	1355.9	1355.9	1386.0	1406.5	1417.5	1432.6	1459.9	1490.0	1505.1	1507.8	1522.9
22.5°	1325.8	1328.5	1357.3	1377.8	1394.2	1405.1	1433.9	1465.4	1479.0	1483.2	1499.6
25°	1286.1	1288.9	1316.2	1336.7	1354.5	1366.8	1394.2	1422.9	1439.4	1443.5	1455.8
27.5°	1234.2	1239.6	1265.6	1286.1	1301.2	1309.4	1338.1	1368.2	1380.5	1384.6	1397.0
30°	1173.9	1175.3	1201.3	1219.1	1234.2	1241.0	1265.6	1297.1	1306.7	1310.8	1328.5
32.5°	1100.0	1098.7	1123.3	1139.7	1152.0	1160.3	1186.2	1206.8	1216.4	1223.2	1232.8
35°	1011.1	1009.7	1027.5	1046.7	1056.3	1059.0	1085.0	1106.9	1112.4	1117.8	1130.2
37.5°	911.3	911.3	926.3	935.9	946.8	950.9	963.2	987.9	997.4	996.1	1005.6
40°	805.9	800.4	811.3	821.0	823.7	825.0	837.4	856.5	863.3	863.3	870.2
42.5°	695.1	686.8	688.2	693.7	696.4	686.8	695.1	707.4	703.2	708.7	710.1
45°	577.4	565.1	559.6	547.3	550.0	540.4	535.0	537.7	536.4	522.7	525.4
47.5°	481.6	459.7	450.1	432.4	428.3	417.3	410.5	398.1	387.2	387.2	380.3
50°	400.9	379.0	359.8	339.3	332.5	322.9	307.8	291.4	283.2	275.0	268.2
52.5°	336.6	313.3	290.0	268.2	258.6	246.3	225.8	209.4	194.3	186.1	177.9
55°	284.6	258.6	234.0	210.7	198.4	186.1	165.5	146.4	128.6	117.7	110.8
57.5°	244.9	220.3	194.3	169.7	158.7	145.0	123.2	102.6	86.2	73.9	67.1
60°	216.2	191.6	168.3	142.3	131.3	117.7	94.4	75.2	58.8	47.9	39.7
62.5°	191.6	169.7	145.0	121.8	110.8	97.1	75.2	56.1	41.0	30.1	23.2
65°	173.8	151.9	131.3	108.1	98.5	84.9	64.3	46.5	32.9	23.2	16.4
67.5°	153.2	134.1	113.5	94.4	84.9	73.9	54.7	39.7	27.4	19.1	13.7
70°	128.6	113.5	95.8	78.0	71.2	61.6	45.2	32.9	21.9	15.1	11.0
72.5°	102.6	90.3	76.6	62.9	57.4	47.9	36.9	26.0	16.4	11.0	8.2
75°	78.0	68.4	57.4	47.9	42.4	36.9	27.4	19.1	12.3	8.2	5.5
77.5°	53.4	49.3	41.0	32.9	30.1	26.0	17.8	12.3	8.2	5.5	2.7
80°	36.9	32.9	27.4	21.9	19.1	16.4	11.0	8.2	4.1	2.7	1.4
82.5°	23.2	19.1	16.4	13.7	12.3	9.6	6.8	4.1	2.7	1.4	1.4
85°	12.3	11.0	9.6	6.8	6.8	5.5	4.1	2.7	1.4	0.0	0.0
87.5°	6.8	5.5	4.1	2.7	2.7	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1439.4	1439.4	1438.0	1454.4	1435.3	1454.4	1444.8	1454.4	1440.7	1439.4	1440.7
5°	1450.3	1454.4	1455.8	1470.8	1453.1	1476.3	1468.1	1476.3	1466.7	1469.5	1473.6
7.5°	1472.2	1479.0	1477.7	1496.8	1479.0	1505.1	1499.6	1511.9	1502.3	1505.1	1510.5
10°	1496.8	1505.1	1506.4	1525.6	1509.1	1540.6	1533.8	1547.4	1539.3	1543.4	1550.2
12.5°	1525.6	1535.1	1536.5	1558.4	1540.6	1573.5	1569.3	1583.0	1576.2	1580.3	1588.5
15°	1547.4	1561.1	1563.9	1585.7	1566.6	1600.8	1598.1	1615.9	1604.9	1611.8	1618.6
17.5°	1558.4	1570.7	1576.2	1596.7	1580.3	1614.5	1611.8	1626.8	1618.6	1625.4	1633.7
20°	1551.5	1566.6	1570.7	1591.2	1574.8	1609.0	1604.9	1620.0	1611.8	1617.2	1625.4
22.5°	1526.9	1542.0	1547.4	1566.6	1551.5	1583.0	1581.7	1595.4	1584.4	1591.2	1598.1
25°	1483.2	1499.6	1502.3	1520.1	1503.7	1536.5	1533.8	1548.8	1540.6	1544.7	1554.3
27.5°	1420.2	1439.4	1443.5	1458.5	1446.2	1473.6	1473.6	1485.9	1476.3	1476.3	1485.9
30°	1345.0	1364.1	1366.8	1379.2	1368.2	1392.9	1394.2	1406.5	1391.5	1399.7	1401.1
32.5°	1253.3	1265.6	1273.8	1284.8	1268.4	1299.8	1295.7	1305.3	1297.1	1297.1	1303.9
35°	1142.5	1157.5	1161.6	1175.3	1161.6	1186.2	1186.2	1191.7	1183.5	1183.5	1194.5
37.5°	1022.1	1033.0	1034.4	1048.0	1037.1	1057.6	1056.3	1060.4	1052.2	1057.6	1057.6
40°	881.1	889.3	892.1	898.9	897.6	912.6	911.3	914.0	909.9	911.3	914.0
42.5°	717.0	727.9	733.4	738.8	730.6	751.2	747.1	751.2	749.8	751.2	755.3
45°	528.1	536.4	540.4	541.8	539.1	551.4	560.9	552.8	554.1	551.4	556.9
47.5°	381.7	383.1	380.3	388.6	381.7	387.2	390.0	391.3	383.1	381.7	387.2
50°	261.3	268.2	258.6	262.7	261.3	266.8	264.1	265.5	257.2	261.3	258.6
52.5°	173.8	172.4	169.7	171.0	168.3	168.3	168.3	171.0	165.5	162.8	160.1
55°	105.4	102.6	97.1	95.8	95.8	97.1	94.4	91.7	91.7	90.3	90.3
57.5°	61.6	57.4	54.7	53.4	50.6	49.3	47.9	47.9	45.2	45.2	45.2
60°	34.2	30.1	27.4	24.6	24.6	23.2	21.9	20.5	20.5	20.5	19.1
62.5°	17.8	15.1	12.3	11.0	11.0	9.6	8.2	8.2	8.2	8.2	6.8
65°	12.3	9.6	8.2	6.8	6.8	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	9.6	8.2	6.8	5.5	5.5	5.5	4.1	4.1	4.1	4.1	4.1
70°	8.2	5.5	5.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	5.5	5.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
75°	4.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P684920

CATALOG NUMBER: LX6C25D010 EX6259030 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1453.1	1451.7	1453.1	1455.8	1450.3	1466.7	1458.5	1466.7
5°	1484.5	1485.9	1487.3	1491.4	1484.5	1505.1	1494.1	1506.4
7.5°	1525.6	1526.9	1528.3	1532.4	1528.3	1548.8	1536.5	1547.4
10°	1568.0	1570.7	1570.7	1577.6	1573.5	1592.6	1584.4	1598.1
12.5°	1607.7	1610.4	1613.2	1617.2	1614.5	1635.0	1628.2	1639.1
15°	1639.1	1644.6	1646.0	1651.4	1648.7	1670.6	1662.4	1673.3
17.5°	1654.2	1659.6	1659.6	1666.5	1663.8	1687.0	1676.0	1688.4
20°	1646.0	1650.1	1651.4	1658.3	1655.5	1678.8	1667.9	1682.9
22.5°	1620.0	1621.3	1622.7	1629.6	1628.2	1648.7	1639.1	1648.7
25°	1572.1	1576.2	1574.8	1580.3	1580.3	1596.7	1585.7	1594.0
27.5°	1503.7	1507.8	1507.8	1514.6	1509.1	1525.6	1514.6	1526.9
30°	1420.2	1424.3	1421.6	1427.0	1421.6	1438.0	1429.8	1433.9
32.5°	1320.3	1320.3	1321.7	1323.1	1320.3	1335.4	1327.2	1335.4
35°	1201.3	1204.0	1205.4	1206.8	1204.0	1215.0	1205.4	1210.9
37.5°	1067.2	1074.1	1072.7	1074.1	1070.0	1083.6	1075.4	1078.2
40°	923.5	923.5	922.2	924.9	920.8	931.8	926.3	929.0
42.5°	756.6	760.7	755.3	762.1	751.2	766.2	760.7	756.6
45°	567.8	562.3	560.9	562.3	558.2	559.6	563.7	560.9
47.5°	387.2	387.2	384.5	380.3	385.8	387.2	381.7	381.7
50°	260.0	260.0	257.2	255.8	258.6	257.2	254.5	258.6
52.5°	165.5	160.1	160.1	162.8	160.1	157.4	161.5	158.7
55°	90.3	87.6	87.6	90.3	87.6	87.6	86.2	88.9
57.5°	43.8	45.2	43.8	43.8	43.8	43.8	42.4	43.8
60°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
62.5°	8.2	8.2	6.8	6.8	6.8	6.8	6.8	6.8
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	4.1	4.1	4.1	4.1	4.1	5.5	4.1	4.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	4.1	4.1	5.5	5.5	5.5	5.5	5.5	5.5
75°	2.7	2.7	2.7	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)