

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: P684165

Luminaire Tested: **LX6C25D010 EX6C259050 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684165  
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: LX6C25D010 EX6C259050 6LCSWH  
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

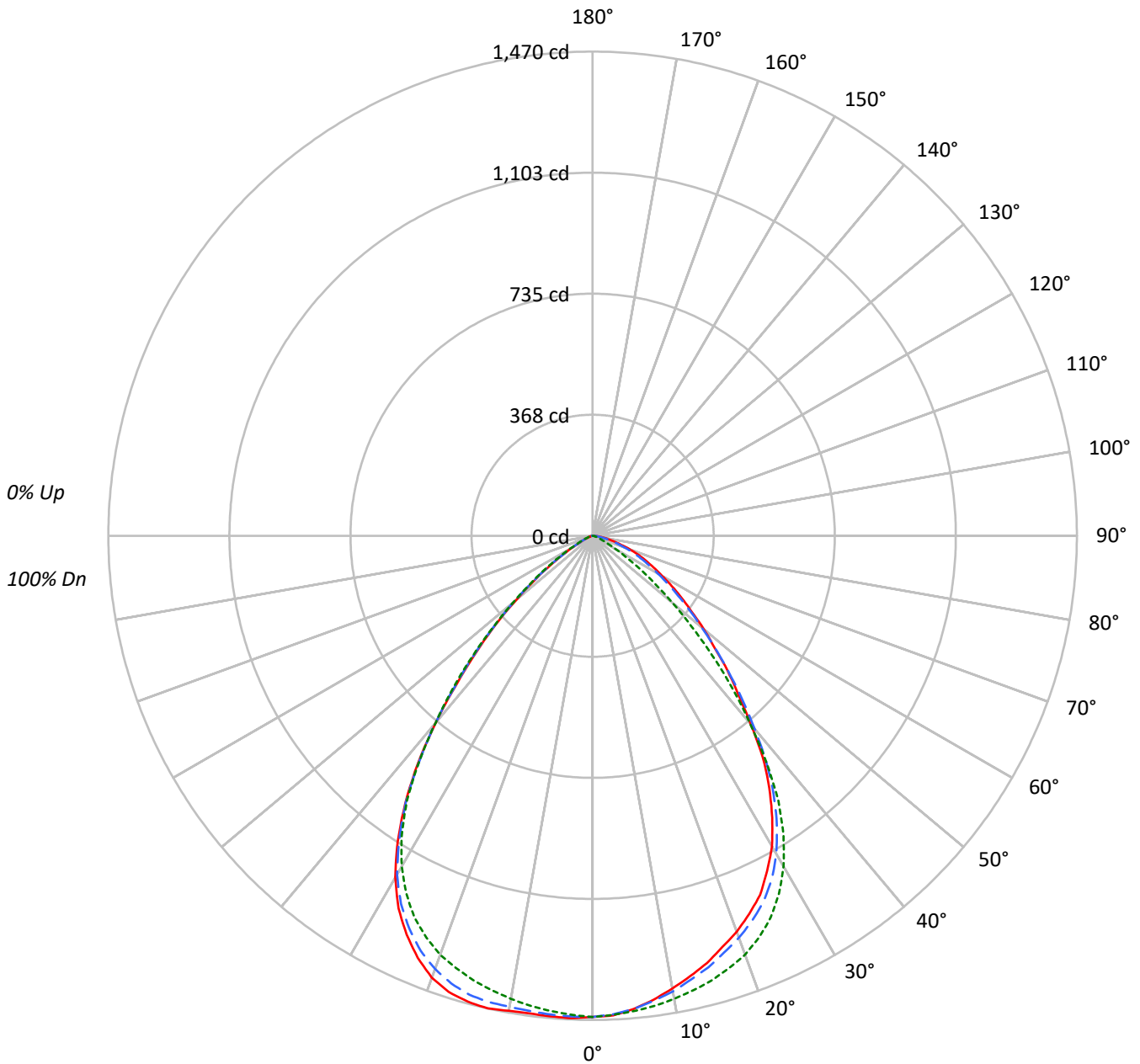
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2451.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 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): 31.5  
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									
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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	80092	80092	80092
5°	79325	79716	80591
10°	77693	79457	81523
15°	76204	79308	83116
20°	74626	78949	83272
25°	72784	77375	80787
30°	68916	73378	75834
35°	62580	65772	66361
40°	53414	53157	52906
45°	44865	39803	38578
50°	37474	26933	25586
55°	31540	16525	15015
60°	26697	8705	7543
65°	23115	4579	3658
70°	19234	2821	1971
75°	14212	1864	1123
80°	11144	1105	568
85°	8869	1132	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	5.6
10°-20°	394.2	16.1
20°-30°	582.1	23.8
30°-40°	600.0	24.5
40°-50°	414.4	16.9
50°-60°	204.2	8.3
60°-70°	82.7	3.4
70°-80°	29.5	1.2
80°-90°	6.1	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°	1114.1	45.5
0°-40°	1714.0	69.9
0°-60°	2332.6	95.2
0°-90°	2451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1461	1461	1461	1461	1461	
5°	1442	1442	1449	1459	1464	136
15°	1343	1357	1397	1443	1464	378
25°	1203	1226	1279	1316	1336	550
35°	935	958	983	988	992	579
45°	579	582	513	506	498	447
55°	330	318	173	162	157	298
65°	178	161	35	28	28	177
75°	67	56	9	5	5	75
85°	14	11	2	0	0	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°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1457.4	1452.1	1455.7	1448.6	1457.4	1448.6	1450.4	1452.1	1450.4	1452.1	1453.9
5°	1441.5	1436.2	1441.5	1432.7	1441.5	1436.2	1436.2	1438.0	1438.0	1439.7	1441.5
7.5°	1420.4	1415.1	1420.4	1411.5	1422.1	1416.9	1416.9	1420.4	1418.6	1420.4	1423.9
10°	1395.7	1388.6	1393.9	1388.6	1399.2	1392.1	1395.7	1395.7	1395.7	1400.9	1404.5
12.5°	1369.2	1362.1	1369.2	1360.4	1370.9	1365.7	1367.4	1372.7	1374.5	1378.0	1379.8
15°	1342.7	1333.9	1337.4	1332.1	1342.7	1337.4	1339.2	1346.3	1346.3	1351.6	1356.9
17.5°	1309.2	1302.1	1309.2	1302.1	1311.0	1307.4	1311.0	1316.3	1316.3	1321.6	1326.8
20°	1279.2	1272.1	1277.4	1272.1	1282.8	1277.4	1279.2	1286.3	1288.0	1293.3	1298.6
22.5°	1242.1	1236.8	1240.4	1235.1	1245.7	1242.1	1243.9	1251.0	1252.8	1256.3	1265.1
25°	1203.3	1192.7	1198.0	1194.5	1205.1	1199.8	1203.3	1210.4	1214.0	1219.2	1226.3
27.5°	1146.9	1141.6	1145.1	1145.1	1153.9	1148.7	1150.4	1157.5	1162.7	1168.0	1176.9
30°	1088.7	1079.9	1083.4	1085.1	1092.2	1088.7	1092.2	1099.2	1101.0	1108.1	1115.1
32.5°	1014.6	1011.0	1018.1	1014.6	1018.1	1018.1	1019.8	1025.1	1028.6	1032.2	1041.0
35°	935.1	928.1	935.1	931.6	940.5	935.1	940.5	945.8	945.8	952.8	958.1
37.5°	848.7	839.9	843.4	843.4	846.9	845.2	845.2	854.0	855.7	861.0	866.3
40°	746.4	742.8	749.9	748.1	749.9	749.9	751.6	756.9	760.4	762.2	764.0
42.5°	654.6	656.3	658.1	658.1	658.1	658.1	658.1	665.2	663.4	668.7	670.5
45°	578.7	571.7	575.2	573.5	578.7	573.5	578.7	584.0	580.5	585.8	582.2
47.5°	501.1	501.1	501.1	499.4	502.9	501.1	504.6	506.4	506.4	506.4	504.6
50°	439.4	434.1	435.8	435.8	437.6	435.8	439.4	441.1	441.1	437.6	430.5
52.5°	379.3	377.6	377.6	381.1	381.1	379.3	379.3	379.3	379.3	374.1	370.5
55°	330.0	326.4	328.2	328.2	328.2	328.2	330.0	328.2	328.2	322.9	317.6
57.5°	285.8	282.3	282.3	282.3	284.0	282.3	282.3	282.3	280.5	275.2	268.2
60°	243.5	241.7	243.5	243.5	245.2	243.5	243.5	243.5	240.0	234.7	227.6
62.5°	208.2	208.2	208.2	209.9	209.9	208.2	208.2	206.4	204.7	197.6	190.6
65°	178.2	176.4	178.2	178.2	179.9	179.9	178.2	176.4	174.7	167.6	160.6
67.5°	148.2	146.4	148.2	148.2	150.0	148.2	148.2	148.2	142.9	139.4	132.3
70°	120.0	118.2	118.2	118.2	120.0	116.4	118.2	118.2	114.7	109.4	102.3
72.5°	91.8	91.8	91.8	91.8	91.8	91.8	90.0	90.0	86.5	81.1	77.6
75°	67.1	67.1	68.8	68.8	67.1	67.1	67.1	65.3	63.5	60.0	56.5
77.5°	49.4	49.4	49.4	49.4	47.6	47.6	47.6	45.8	44.1	42.3	38.8
80°	35.3	35.3	35.3	33.5	35.3	33.5	33.5	33.5	30.0	28.2	26.5
82.5°	24.7	23.0	23.0	23.0	23.0	23.0	23.0	21.2	21.2	19.4	17.6
85°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	12.3	10.6	10.6
87.5°	7.0	8.8	8.8	8.8	8.8	8.8	8.8	7.0	7.0	7.0	5.3
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°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1453.9	1453.9	1457.4	1452.1	1461.0	1455.7	1453.9	1462.7	1457.4	1455.7	1459.2
5°	1441.5	1443.3	1445.0	1441.5	1450.4	1445.0	1445.0	1453.9	1450.4	1448.6	1453.9
7.5°	1425.7	1427.4	1430.9	1429.2	1436.2	1432.7	1434.5	1443.3	1439.7	1439.7	1445.0
10°	1406.2	1409.8	1413.3	1413.3	1422.1	1418.6	1418.6	1429.2	1425.7	1427.4	1434.5
12.5°	1383.3	1388.6	1393.9	1395.7	1404.5	1399.2	1400.9	1413.3	1411.5	1413.3	1420.4
15°	1358.6	1365.7	1370.9	1370.9	1381.6	1376.2	1381.6	1393.9	1390.4	1397.4	1406.2
17.5°	1330.4	1337.4	1344.5	1346.3	1356.9	1353.3	1360.4	1372.7	1372.7	1376.2	1386.9
20°	1303.9	1312.7	1316.3	1321.6	1332.1	1330.4	1333.9	1348.0	1348.0	1353.3	1363.9
22.5°	1268.6	1277.4	1284.5	1289.8	1298.6	1298.6	1303.9	1316.3	1316.3	1319.8	1330.4
25°	1229.8	1240.4	1245.7	1251.0	1259.8	1258.0	1263.3	1273.9	1275.7	1279.2	1289.8
27.5°	1180.4	1189.2	1196.3	1199.8	1212.2	1205.1	1210.4	1222.8	1221.0	1224.5	1233.3
30°	1118.7	1127.5	1134.5	1134.5	1145.1	1145.1	1150.4	1155.7	1155.7	1159.2	1166.3
32.5°	1046.3	1056.9	1056.9	1062.2	1069.2	1062.2	1069.2	1076.3	1072.8	1078.1	1083.4
35°	963.3	968.7	970.4	970.4	975.8	974.0	972.2	977.5	974.0	982.8	988.1
37.5°	862.8	869.9	866.3	869.9	868.1	862.8	862.8	871.6	864.5	866.3	871.6
40°	765.8	765.8	764.0	755.2	756.9	751.6	749.9	751.6	744.6	742.8	749.9
42.5°	665.2	663.4	658.1	645.8	647.5	638.7	631.7	631.7	628.1	626.3	628.1
45°	575.2	569.9	561.1	547.0	543.4	536.4	522.2	518.7	513.4	513.4	515.2
47.5°	492.3	485.2	471.1	455.2	446.4	437.6	423.4	418.1	409.3	405.8	409.3
50°	423.4	411.1	393.5	370.5	361.7	351.1	337.0	328.2	319.3	315.8	314.0
52.5°	360.0	342.3	324.7	296.5	289.4	278.8	259.4	250.5	241.7	234.7	234.7
55°	305.2	289.4	264.7	238.2	227.6	217.0	197.6	185.3	176.4	172.9	169.4
57.5°	255.8	238.2	215.2	187.0	176.4	165.9	146.4	134.1	125.3	120.0	116.4
60°	215.2	195.9	172.9	148.2	135.9	125.3	105.9	93.5	84.7	79.4	75.8
62.5°	176.4	160.6	137.6	114.7	104.1	93.5	77.6	65.3	56.5	52.9	47.6
65°	148.2	132.3	111.1	91.8	82.9	72.3	58.3	47.6	40.6	35.3	31.8
67.5°	120.0	107.6	90.0	72.3	63.5	56.5	44.1	35.3	28.2	24.7	23.0
70°	95.3	82.9	68.8	54.7	49.4	42.3	33.5	24.7	21.2	17.6	15.9
72.5°	70.6	61.8	51.2	40.6	35.3	31.8	23.0	19.4	14.1	12.3	10.6
75°	51.2	44.1	37.0	28.2	24.7	23.0	17.6	12.3	10.6	8.8	7.0
77.5°	35.3	31.8	24.7	19.4	17.6	15.9	12.3	8.8	7.0	5.3	5.3
80°	23.0	19.4	15.9	12.3	12.3	10.6	7.0	5.3	5.3	3.5	3.5
82.5°	14.1	12.3	10.6	8.8	7.0	7.0	5.3	3.5	3.5	1.8	1.8
85°	8.8	7.0	5.3	5.3	3.5	3.5	3.5	1.8	1.8	1.8	1.8
87.5°	3.5	3.5	3.5	1.8	1.8	1.8	1.8	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°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1459.2	1459.2	1462.7	1457.4	1461.0	1461.0	1464.5	1457.4	1461.0	1462.7	1466.2
5°	1452.1	1453.9	1457.4	1455.7	1457.4	1457.4	1461.0	1452.1	1459.2	1459.2	1464.5
7.5°	1445.0	1445.0	1448.6	1446.8	1450.4	1452.1	1455.7	1448.6	1455.7	1455.7	1461.0
10°	1436.2	1436.2	1441.5	1439.7	1445.0	1446.8	1452.1	1445.0	1452.1	1453.9	1459.2
12.5°	1423.9	1425.7	1430.9	1430.9	1436.2	1439.7	1445.0	1441.5	1450.4	1452.1	1459.2
15°	1409.8	1413.3	1420.4	1418.6	1423.9	1429.2	1436.2	1430.9	1443.3	1446.8	1453.9
17.5°	1392.1	1395.7	1400.9	1400.9	1406.2	1409.8	1418.6	1415.1	1425.7	1427.4	1436.2
20°	1365.7	1370.9	1378.0	1376.2	1381.6	1385.1	1392.1	1388.6	1399.2	1402.7	1411.5
22.5°	1333.9	1337.4	1342.7	1342.7	1348.0	1351.6	1358.6	1353.3	1363.9	1365.7	1372.7
25°	1291.6	1295.1	1298.6	1300.4	1305.6	1307.4	1311.0	1307.4	1316.3	1318.1	1326.8
27.5°	1236.8	1238.6	1243.9	1243.9	1247.5	1249.2	1254.5	1247.5	1259.8	1259.8	1265.1
30°	1171.6	1169.8	1176.9	1173.3	1176.9	1176.9	1182.2	1178.7	1187.5	1184.0	1189.2
32.5°	1085.1	1088.7	1088.7	1085.1	1092.2	1090.4	1090.4	1086.9	1092.2	1093.9	1097.4
35°	984.6	989.8	989.8	991.6	993.4	988.1	989.8	979.3	988.1	989.8	991.6
37.5°	875.2	869.9	873.4	868.1	876.9	866.3	866.3	859.3	866.3	866.3	868.1
40°	749.9	748.1	751.6	748.1	746.4	744.6	741.1	735.8	742.8	739.3	744.6
42.5°	631.7	629.9	629.9	626.3	624.6	624.6	621.1	617.5	615.8	615.8	624.6
45°	509.9	513.4	509.9	508.2	511.7	508.2	509.9	502.9	506.4	502.9	506.4
47.5°	407.6	409.3	405.8	402.3	407.6	402.3	402.3	397.0	404.1	404.1	400.5
50°	315.8	314.0	310.5	314.0	312.3	312.3	312.3	307.0	310.5	305.2	308.8
52.5°	232.9	231.2	231.2	229.4	231.2	229.4	229.4	227.6	227.6	225.9	227.6
55°	169.4	167.6	164.1	164.1	164.1	165.9	164.1	162.4	162.4	160.6	162.4
57.5°	114.7	111.1	111.1	111.1	111.1	109.4	109.4	107.6	109.4	107.6	109.4
60°	74.1	74.1	70.6	70.6	70.6	70.6	70.6	68.8	70.6	70.6	70.6
62.5°	45.8	45.8	44.1	42.3	44.1	42.3	42.3	42.3	44.1	42.3	44.1
65°	30.0	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
67.5°	21.2	19.4	19.4	19.4	19.4	19.4	19.4	17.6	19.4	19.4	19.4
70°	14.1	14.1	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	7.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	5.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	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	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P684165

CATALOG NUMBER: LX6C25D010 EX6C259050 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1461.0	1462.7	1459.2	1461.0	1457.4	1461.0	1462.7	1466.2
5°	1457.4	1459.2	1455.7	1459.2	1455.7	1459.2	1461.0	1464.5
7.5°	1453.9	1457.4	1453.9	1457.4	1453.9	1457.4	1459.2	1462.7
10°	1453.9	1459.2	1455.7	1461.0	1455.7	1459.2	1462.7	1464.5
12.5°	1453.9	1459.2	1457.4	1461.0	1459.2	1462.7	1466.2	1469.7
15°	1450.4	1455.7	1452.1	1457.4	1455.7	1457.4	1464.5	1464.5
17.5°	1430.9	1436.2	1436.2	1439.7	1439.7	1445.0	1448.6	1452.1
20°	1406.2	1411.5	1409.8	1415.1	1415.1	1420.4	1423.9	1427.4
22.5°	1369.2	1376.2	1374.5	1379.8	1378.0	1381.6	1388.6	1386.9
25°	1321.6	1330.4	1328.6	1332.1	1330.4	1330.4	1333.9	1335.6
27.5°	1263.3	1268.6	1266.8	1270.4	1266.8	1270.4	1273.9	1275.7
30°	1187.5	1191.0	1189.2	1191.0	1189.2	1192.7	1194.5	1198.0
32.5°	1095.7	1101.0	1095.7	1099.2	1097.4	1097.4	1104.5	1101.0
35°	986.3	988.1	989.8	989.8	986.3	988.1	991.6	991.6
37.5°	864.5	873.4	862.8	868.1	866.3	866.3	866.3	871.6
40°	737.6	739.3	735.8	735.8	735.8	734.0	741.1	739.3
42.5°	617.5	619.3	617.5	612.3	614.0	614.0	619.3	612.3
45°	501.1	504.6	502.9	502.9	499.4	499.4	501.1	497.6
47.5°	397.0	400.5	395.3	397.0	393.5	397.0	395.3	398.8
50°	301.7	305.2	303.5	305.2	305.2	301.7	307.0	300.0
52.5°	225.9	227.6	225.9	224.1	222.3	222.3	225.9	224.1
55°	160.6	158.8	158.8	158.8	160.6	160.6	158.8	157.1
57.5°	107.6	107.6	105.9	105.9	107.6	104.1	105.9	104.1
60°	68.8	68.8	68.8	68.8	67.1	68.8	68.8	68.8
62.5°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
65°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
67.5°	17.6	19.4	19.4	19.4	17.6	17.6	17.6	17.6
70°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	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)