

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: P684209

Luminaire Tested: **LX6C35D010 EX6C359027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684209
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 EX6C359027 6LBLWWH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

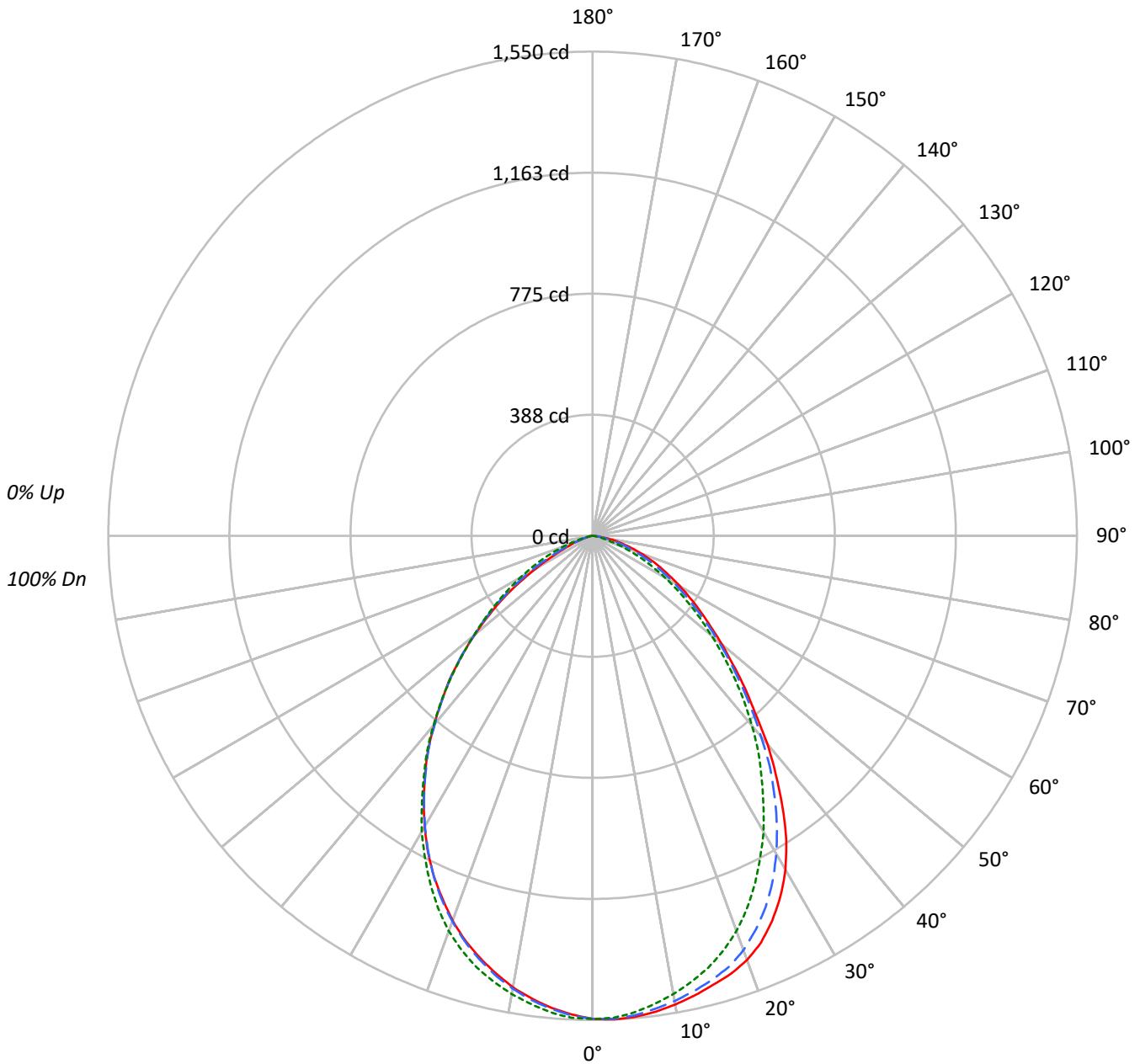
Lumens per Lamp: N/A
Luminaire Lumens: 2813.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	84779	84779	84779
5°	85076	84300	83474
10°	84813	82931	81717
15°	84495	81221	79331
20°	84305	78541	76452
25°	82257	74333	72694
30°	78151	69232	68080
35°	70932	63035	62620
40°	62238	56728	56434
45°	53354	49571	49974
50°	45926	42250	42028
55°	40142	35669	33490
60°	35282	29241	22860
65°	30885	22661	13750
70°	26335	15243	8078
75°	21244	7922	4406
80°	14775	3125	2462
85°	5913	1006	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	5.2
10°-20°	404.6	14.4
20°-30°	575.8	20.5
30°-40°	606.1	21.5
40°-50°	505.1	18.0
50°-60°	341.2	12.1
60°-70°	173.0	6.2
70°-80°	55.8	2.0
80°-90°	6.4	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°	1125.4	40.0
0°-40°	1731.4	61.6
0°-60°	2577.7	91.6
0°-90°	2813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1546	1546	1546	1546	1546	
5°	1546	1541	1532	1520	1517	147
15°	1489	1473	1431	1402	1398	421
25°	1360	1310	1229	1203	1202	623
35°	1060	1014	942	933	936	660
45°	688	671	639	642	645	533
55°	420	400	373	362	350	378
65°	238	215	175	126	106	237
75°	100	78	37	20	21	108
85°	9	5	2	2	2	16
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°	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5
2.5°	1550.1	1550.1	1550.1	1550.1	1550.1	1550.1	1549.6	1549.6	1548.6	1548.6	1548.0
5°	1546.0	1546.5	1546.5	1546.0	1546.0	1544.9	1544.9	1544.4	1542.8	1541.8	1541.3
7.5°	1537.1	1537.1	1536.6	1536.1	1535.6	1534.0	1533.5	1531.9	1530.9	1529.8	1527.8
10°	1523.6	1523.6	1523.1	1522.0	1521.5	1520.5	1520.5	1518.4	1516.3	1513.7	1512.2
12.5°	1507.5	1508.0	1507.0	1506.5	1504.9	1504.4	1503.3	1500.7	1499.2	1496.1	1493.5
15°	1488.8	1489.8	1489.8	1487.7	1486.2	1485.7	1484.1	1482.5	1478.9	1475.8	1472.7
17.5°	1470.6	1471.6	1470.6	1469.0	1467.5	1465.4	1464.3	1461.2	1456.6	1452.4	1447.7
20°	1445.1	1446.7	1444.6	1442.0	1438.9	1438.4	1436.8	1431.6	1424.8	1418.6	1411.8
22.5°	1409.2	1408.2	1406.6	1405.6	1400.4	1397.3	1395.2	1388.5	1381.2	1372.9	1364.5
25°	1359.9	1361.9	1358.8	1354.1	1351.5	1348.4	1343.2	1336.0	1329.2	1320.4	1310.5
27.5°	1301.6	1301.6	1297.5	1295.9	1290.2	1286.0	1283.4	1276.2	1267.3	1258.5	1247.6
30°	1234.6	1231.5	1231.5	1224.2	1219.5	1218.0	1215.4	1203.4	1195.6	1186.2	1175.3
32.5°	1153.5	1153.0	1150.9	1146.2	1140.0	1134.8	1134.8	1126.5	1116.1	1104.6	1097.9
35°	1059.9	1060.4	1059.4	1054.2	1054.2	1048.0	1046.9	1039.7	1031.3	1022.5	1014.2
37.5°	963.2	965.3	963.2	960.6	959.1	958.6	953.9	948.7	942.4	937.2	931.0
40°	869.7	866.5	867.6	862.4	862.9	861.9	859.8	853.0	849.4	844.2	837.4
42.5°	768.8	771.9	773.0	769.9	768.8	766.7	768.8	766.2	762.1	759.5	753.2
45°	688.2	685.1	686.7	685.7	686.2	682.0	680.5	679.4	677.9	673.2	670.6
47.5°	608.2	608.7	608.2	606.1	605.1	605.1	603.0	599.9	599.9	596.8	594.7
50°	538.5	538.5	539.6	537.0	535.9	533.9	534.4	531.3	529.2	526.6	525.0
52.5°	474.6	475.1	473.0	473.6	472.5	472.5	470.4	468.4	466.3	461.6	460.6
55°	420.0	420.5	417.9	419.0	415.9	414.3	413.3	410.1	410.1	405.5	399.7
57.5°	369.1	368.6	368.0	366.5	364.4	362.8	361.3	357.6	356.1	353.0	348.3
60°	321.8	321.3	320.2	319.7	318.1	314.5	314.5	311.9	306.7	303.6	298.9
62.5°	277.1	277.1	276.5	275.0	273.4	271.9	270.8	268.7	263.6	259.9	255.8
65°	238.1	237.6	236.0	233.4	232.4	232.4	228.7	227.2	223.0	219.4	214.7
67.5°	200.7	198.6	197.5	198.1	194.9	194.9	191.8	189.2	185.6	179.3	175.7
70°	164.3	163.2	162.2	161.1	160.6	158.5	157.0	153.9	150.2	145.6	139.8
72.5°	131.5	131.5	130.0	128.9	127.4	125.3	124.2	121.6	117.5	112.3	108.1
75°	100.3	100.3	100.3	98.2	97.2	96.2	93.0	91.5	86.8	83.7	78.5
77.5°	73.8	72.8	71.2	70.7	69.7	68.6	67.1	64.5	60.3	56.7	53.5
80°	46.8	48.3	46.8	46.8	44.2	43.1	42.6	39.5	37.9	34.8	32.2
82.5°	26.0	26.5	25.5	25.0	23.4	22.9	22.9	20.8	19.8	17.7	16.1
85°	9.4	9.9	9.4	9.4	8.3	8.8	8.3	7.8	6.8	5.7	5.2
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5
2.5°	1548.0	1547.0	1547.0	1546.5	1546.0	1546.0	1546.0	1545.4	1544.4	1544.4	1543.9
5°	1540.2	1539.2	1537.6	1536.6	1536.1	1535.6	1535.0	1534.5	1532.4	1531.9	1530.4
7.5°	1526.2	1525.2	1522.6	1521.5	1520.0	1519.5	1517.4	1516.3	1514.3	1512.2	1511.1
10°	1509.6	1507.0	1504.9	1502.3	1501.3	1499.7	1497.1	1494.0	1492.4	1489.8	1487.7
12.5°	1490.9	1487.7	1483.6	1480.5	1479.4	1476.8	1472.7	1470.1	1466.4	1462.3	1458.6
15°	1467.5	1463.8	1460.2	1454.5	1452.9	1449.8	1445.6	1440.4	1435.2	1431.1	1426.9
17.5°	1442.0	1436.3	1430.6	1424.3	1419.6	1418.1	1411.3	1404.0	1399.4	1392.1	1387.4
20°	1406.1	1398.3	1389.0	1382.7	1378.6	1373.9	1366.1	1358.3	1352.6	1346.3	1339.6
22.5°	1356.7	1349.5	1338.6	1329.2	1326.1	1319.3	1312.6	1305.3	1298.0	1291.2	1282.9
25°	1298.5	1290.7	1279.8	1270.5	1265.3	1262.1	1249.1	1241.9	1234.6	1228.9	1223.1
27.5°	1238.7	1224.7	1217.4	1202.9	1198.2	1197.2	1185.2	1177.4	1169.6	1161.8	1154.5
30°	1164.9	1154.0	1143.1	1132.7	1126.5	1122.8	1114.0	1104.1	1098.9	1093.7	1086.4
32.5°	1088.5	1078.6	1065.1	1055.2	1050.6	1045.4	1037.6	1030.8	1023.0	1017.3	1015.7
35°	1006.9	996.0	984.5	977.3	976.2	970.0	962.2	956.5	950.8	941.9	940.4
37.5°	919.6	913.3	905.5	895.1	890.5	890.5	882.7	878.5	871.2	870.7	866.5
40°	833.8	831.2	819.2	816.1	815.1	807.8	805.7	798.5	793.3	792.7	786.5
42.5°	749.1	742.3	740.2	735.0	730.4	729.3	724.6	721.5	719.4	716.3	713.2
45°	664.9	663.3	658.1	654.5	652.9	650.8	649.3	643.0	642.0	639.4	637.8
47.5°	592.1	587.9	583.2	579.1	578.6	575.4	571.8	571.8	566.1	565.6	564.5
50°	519.8	516.7	514.1	508.4	509.4	505.3	504.8	500.1	497.5	495.4	498.0
52.5°	456.4	450.2	449.1	444.5	442.9	443.4	437.7	436.1	435.1	433.0	432.0
55°	396.1	393.0	388.8	385.7	383.1	380.5	378.4	378.4	372.7	373.2	370.6
57.5°	343.1	340.5	335.3	330.6	329.6	326.5	323.9	321.3	320.7	317.1	314.5
60°	295.8	291.1	284.3	282.3	279.1	276.5	273.9	270.8	269.3	266.7	262.0
62.5°	251.6	243.8	241.2	237.0	233.4	231.8	227.7	224.0	221.4	217.8	214.2
65°	209.5	203.8	199.1	194.4	193.9	189.7	186.1	183.0	177.8	174.7	167.9
67.5°	171.0	165.8	160.6	155.9	152.3	151.3	145.6	141.9	138.3	132.0	126.3
70°	135.7	130.5	126.3	120.6	119.0	114.9	110.7	107.1	100.8	95.1	90.4
72.5°	103.4	97.7	93.0	88.9	86.3	82.7	78.5	74.3	68.1	62.4	58.2
75°	73.8	69.7	65.0	60.8	58.7	56.7	52.0	47.3	43.1	37.4	33.8
77.5°	49.9	45.7	41.6	37.9	35.3	33.8	30.7	27.0	23.4	20.3	17.7
80°	29.1	26.5	23.4	20.3	19.8	18.2	15.6	13.5	11.4	9.9	7.8
82.5°	14.0	12.5	10.4	8.8	7.8	7.3	6.2	5.2	4.2	3.6	3.6
85°	4.2	3.6	3.1	2.6	2.1	2.1	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°	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5
2.5°	1542.3	1541.8	1541.3	1540.8	1539.7	1539.7	1538.2	1537.1	1537.1	1536.1	1535.6
5°	1528.8	1527.2	1526.7	1525.7	1524.6	1524.1	1522.0	1521.5	1520.5	1519.5	1519.5
7.5°	1509.6	1507.5	1505.4	1504.4	1503.9	1502.3	1501.3	1500.7	1499.2	1498.1	1496.1
10°	1484.1	1482.5	1479.9	1478.9	1477.9	1476.8	1474.2	1472.7	1472.1	1471.1	1470.1
12.5°	1454.5	1452.4	1449.8	1447.7	1446.7	1445.1	1442.5	1441.0	1441.0	1438.9	1438.9
15°	1422.8	1419.6	1415.0	1412.9	1412.4	1409.2	1407.2	1405.1	1402.5	1401.5	1401.5
17.5°	1382.2	1377.0	1372.9	1372.9	1370.8	1367.7	1364.5	1363.0	1361.4	1359.3	1358.3
20°	1334.4	1330.8	1326.1	1326.1	1321.4	1320.4	1317.2	1316.7	1313.1	1313.6	1312.0
22.5°	1276.7	1274.6	1272.0	1269.9	1267.3	1264.2	1262.7	1263.2	1261.6	1261.1	1260.6
25°	1218.5	1212.8	1209.6	1208.6	1207.6	1205.0	1203.9	1203.4	1203.4	1201.8	1202.4
27.5°	1151.4	1147.3	1143.1	1144.7	1142.6	1141.0	1140.0	1138.4	1139.5	1138.9	1139.5
30°	1082.8	1077.6	1075.0	1076.0	1075.5	1071.4	1073.4	1072.9	1073.4	1073.4	1074.5
32.5°	1010.5	1006.9	1006.4	1006.9	1002.2	1002.7	1000.7	1003.8	1004.3	1007.4	1004.8
35°	937.2	935.2	931.5	931.0	931.5	931.0	931.0	933.1	932.6	935.7	934.6
37.5°	861.9	860.8	857.2	858.2	856.2	859.8	860.8	859.8	863.4	862.4	861.9
40°	788.1	786.5	784.4	788.6	786.0	783.9	787.5	784.4	785.5	788.6	788.6
42.5°	713.2	710.6	710.6	710.6	710.1	710.1	711.6	713.2	712.2	712.7	716.8
45°	637.8	637.3	635.7	636.8	636.3	638.9	638.9	639.9	642.0	644.1	643.0
47.5°	565.1	564.0	565.6	564.5	565.1	563.5	564.5	567.6	570.2	566.6	570.2
50°	497.0	494.9	494.4	495.9	495.4	494.9	495.9	495.9	494.9	494.9	498.5
52.5°	432.0	429.9	428.3	430.9	429.4	429.9	427.8	427.8	428.9	427.8	426.3
55°	371.2	369.6	367.5	368.6	366.0	365.4	363.4	363.4	361.8	360.8	357.6
57.5°	312.9	311.9	307.2	306.7	307.2	303.6	299.9	298.4	294.2	293.2	292.7
60°	261.5	255.8	253.2	250.0	248.0	246.4	242.2	239.6	233.4	229.8	229.2
62.5°	207.9	205.3	202.2	197.5	196.5	191.3	187.1	180.4	177.3	172.6	167.9
65°	164.8	158.0	153.3	150.7	146.6	141.9	137.2	130.0	126.3	120.6	115.9
67.5°	120.6	114.9	108.6	106.6	102.9	97.2	92.5	86.3	83.2	78.0	76.4
70°	82.7	77.5	72.8	69.7	67.1	61.3	56.7	54.6	51.5	50.4	50.4
72.5°	53.0	48.3	43.1	41.6	39.5	36.4	33.3	32.2	33.3	32.7	32.7
75°	29.6	27.0	23.4	21.8	21.8	20.8	20.3	20.3	20.3	20.3	20.3
77.5°	15.1	13.5	12.5	12.0	12.0	12.0	12.5	12.5	12.5	13.0	12.5
80°	7.3	6.8	6.8	6.8	7.3	7.3	7.3	7.3	7.3	7.8	7.3
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.2	4.2	4.2	4.2	4.2
85°	1.6	1.6	1.6	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P684209

CATALOG NUMBER: LX6C35D010 EX6C359027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5	1546.5
2.5°	1535.0	1534.0	1534.0	1533.5	1533.5	1533.5	1533.5	1534.0
5°	1518.4	1517.9	1517.9	1516.9	1516.9	1516.9	1516.9	1516.9
7.5°	1496.1	1495.0	1495.5	1494.5	1494.5	1495.0	1494.5	1494.0
10°	1468.5	1468.0	1468.5	1468.5	1467.5	1466.9	1467.5	1468.0
12.5°	1437.3	1436.8	1435.8	1436.3	1436.3	1435.8	1435.2	1434.2
15°	1400.9	1400.4	1399.9	1399.4	1398.9	1399.4	1398.9	1397.8
17.5°	1358.3	1358.3	1357.8	1357.3	1356.7	1355.7	1356.2	1357.8
20°	1312.6	1312.0	1311.0	1311.5	1309.4	1308.4	1308.9	1310.5
22.5°	1260.1	1258.5	1259.5	1258.0	1258.0	1258.5	1258.0	1256.9
25°	1202.9	1200.8	1201.8	1202.4	1202.4	1201.8	1201.3	1201.8
27.5°	1139.5	1141.0	1141.0	1140.0	1141.5	1139.5	1140.5	1141.0
30°	1074.5	1072.9	1072.4	1074.5	1077.6	1075.0	1075.0	1075.5
32.5°	1007.4	1005.3	1005.3	1006.4	1005.9	1005.9	1007.9	1005.3
35°	935.7	936.7	932.6	935.2	936.2	935.2	935.7	935.7
37.5°	863.4	862.4	862.4	862.4	864.0	864.0	865.0	864.5
40°	792.2	790.1	789.6	790.7	788.6	790.1	790.1	788.6
42.5°	715.3	715.8	718.4	715.8	716.3	715.8	714.8	714.2
45°	644.1	645.6	644.6	644.1	644.6	642.5	643.0	644.6
47.5°	568.7	571.8	568.7	570.8	570.2	569.2	568.2	566.1
50°	498.0	499.0	498.5	498.0	497.5	497.0	494.4	492.8
52.5°	425.7	425.7	425.7	425.7	420.5	423.1	422.1	419.0
55°	355.0	356.6	354.5	354.5	350.9	350.9	349.8	350.4
57.5°	286.9	285.4	283.8	283.8	280.2	278.6	277.1	275.0
60°	223.5	222.0	219.9	217.3	213.6	213.6	212.6	208.5
62.5°	163.7	161.1	159.6	157.5	154.4	152.3	150.7	151.8
65°	112.3	109.7	107.6	107.6	107.6	106.6	106.0	106.0
67.5°	73.8	75.4	74.3	75.4	75.4	74.3	73.8	74.9
70°	50.9	50.9	50.4	50.4	50.4	50.4	49.9	50.4
72.5°	32.7	32.7	32.7	33.3	32.7	32.7	33.3	33.3
75°	20.8	20.8	20.8	21.3	20.8	20.8	21.3	20.8
77.5°	12.5	13.0	13.0	13.0	13.0	12.5	13.0	13.0
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)