

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: P684216

Luminaire Tested: **LX6C35D010 EX6C359030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684216
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 EX6C359030 6LBLWWH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

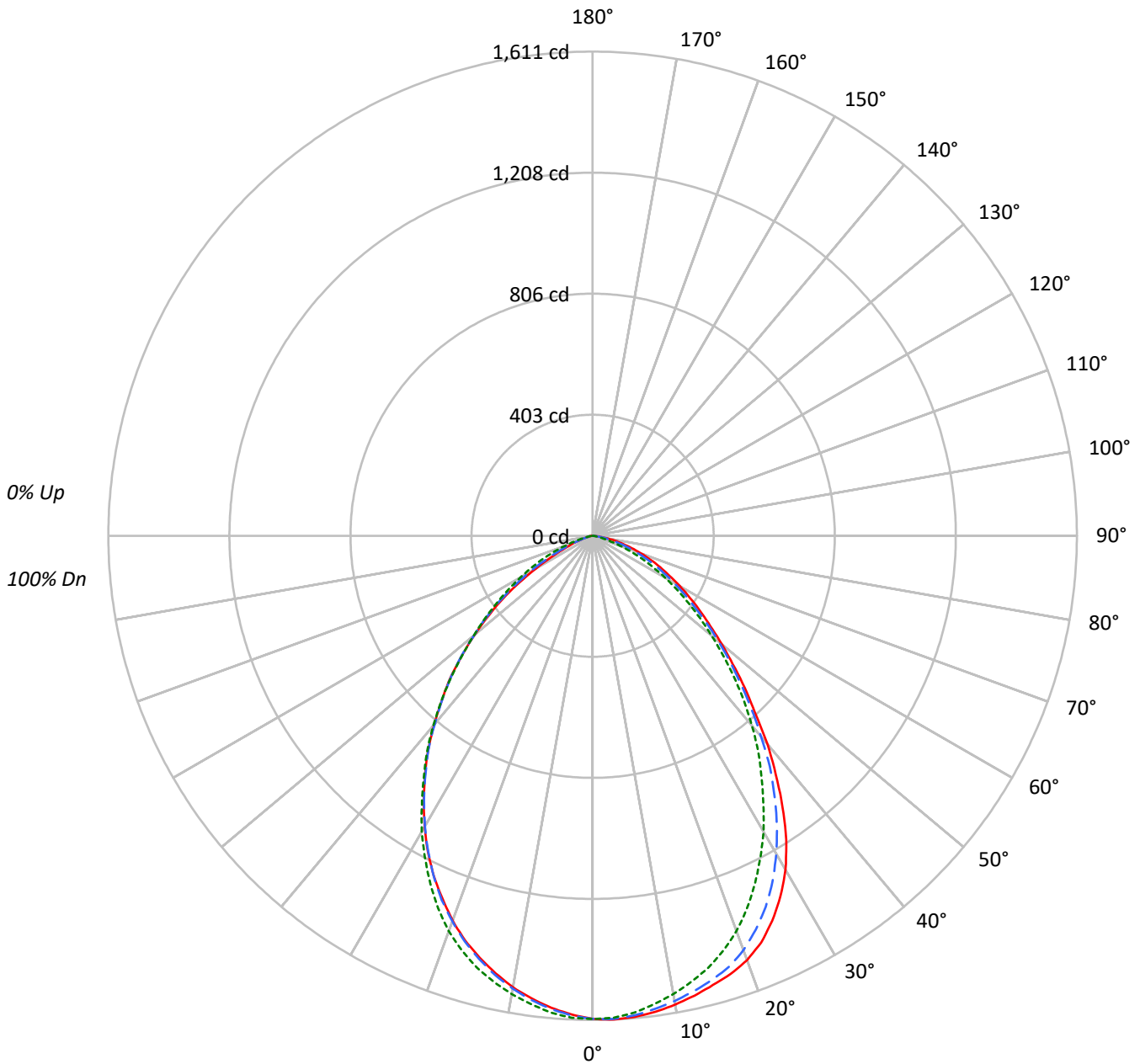
Lumens per Lamp: N/A
Luminaire Lumens: 2924.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	88123	88123	88123
5°	88433	87629	86765
10°	88158	86204	84941
15°	87827	84427	82464
20°	87630	81645	79469
25°	85499	77267	75567
30°	81234	71967	70770
35°	73729	65524	65089
40°	64693	58968	58660
45°	55463	51525	51943
50°	47743	43913	43683
55°	41729	37084	34809
60°	36675	30392	23759
65°	32105	23556	14295
70°	27360	15852	8399
75°	22092	8239	4575
80°	15343	3252	2557
85°	6101	1006	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	5.2
10°-20°	420.6	14.4
20°-30°	598.5	20.5
30°-40°	630.0	21.5
40°-50°	525.0	18.0
50°-60°	354.7	12.1
60°-70°	179.8	6.2
70°-80°	58.0	2.0
80°-90°	6.7	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°	1169.8	40.0
0°-40°	1799.7	61.6
0°-60°	2679.4	91.6
0°-90°	2924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1608	1608	1608	1608	1608	
5°	1607	1602	1592	1580	1577	153
15°	1548	1531	1488	1458	1453	437
25°	1414	1362	1277	1251	1249	648
35°	1102	1054	979	969	973	686
45°	715	697	665	667	670	554
55°	437	416	388	376	364	393
65°	248	223	182	131	110	246
75°	104	82	39	21	22	113
85°	10	5	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°	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1610.7	1610.7	1609.7	1609.7	1609.1
5°	1607.0	1607.5	1607.5	1607.0	1607.0	1605.9	1605.9	1605.3	1603.7	1602.6	1602.1
7.5°	1597.8	1597.8	1597.2	1596.7	1596.2	1594.5	1594.0	1592.4	1591.3	1590.2	1588.1
10°	1583.7	1583.7	1583.2	1582.1	1581.6	1580.5	1580.5	1578.3	1576.2	1573.5	1571.8
12.5°	1567.0	1567.5	1566.4	1565.9	1564.3	1563.7	1562.7	1560.0	1558.3	1555.1	1552.4
15°	1547.5	1548.6	1548.6	1546.4	1544.8	1544.3	1542.7	1541.0	1537.3	1534.0	1530.8
17.5°	1528.6	1529.7	1528.6	1527.0	1525.4	1523.2	1522.1	1518.9	1514.0	1509.7	1504.8
20°	1502.1	1503.8	1501.6	1498.9	1495.7	1495.1	1493.5	1488.1	1481.1	1474.6	1467.6
22.5°	1464.9	1463.8	1462.2	1461.1	1455.7	1452.4	1450.3	1443.2	1435.7	1427.0	1418.4
25°	1413.5	1415.7	1412.4	1407.6	1404.9	1401.6	1396.2	1388.7	1381.6	1372.5	1362.2
27.5°	1353.0	1353.0	1348.7	1347.1	1341.1	1336.8	1334.1	1326.5	1317.3	1308.2	1296.8
30°	1283.3	1280.1	1280.1	1272.5	1267.6	1266.0	1263.3	1250.9	1242.8	1233.1	1221.7
32.5°	1199.0	1198.5	1196.3	1191.4	1185.0	1179.6	1179.6	1170.9	1160.1	1148.2	1141.2
35°	1101.7	1102.3	1101.2	1095.8	1095.8	1089.3	1088.2	1080.7	1072.0	1062.8	1054.2
37.5°	1001.2	1003.4	1001.2	998.5	996.9	996.4	991.5	986.1	979.6	974.2	967.7
40°	904.0	900.7	901.8	896.4	897.0	895.9	893.7	886.7	882.9	877.5	870.5
42.5°	799.2	802.4	803.5	800.2	799.2	797.0	799.2	796.5	792.1	789.4	782.9
45°	715.4	712.2	713.8	712.7	713.2	708.9	707.3	706.2	704.6	699.7	697.0
47.5°	632.2	632.7	632.2	630.0	629.0	629.0	626.8	623.5	623.5	620.3	618.1
50°	559.8	559.8	560.9	558.2	557.1	554.9	555.5	552.2	550.1	547.4	545.7
52.5°	493.3	493.9	491.7	492.2	491.2	491.2	489.0	486.8	484.7	479.8	478.7
55°	436.6	437.1	434.4	435.5	432.3	430.6	429.6	426.3	426.3	421.5	415.5
57.5°	383.6	383.1	382.6	380.9	378.8	377.2	375.5	371.8	370.1	366.9	362.0
60°	334.5	333.9	332.8	332.3	330.7	326.9	326.9	324.2	318.8	315.6	310.7
62.5°	288.0	288.0	287.5	285.8	284.2	282.6	281.5	279.4	274.0	270.2	265.8
65°	247.5	246.9	245.3	242.6	241.5	241.5	237.7	236.1	231.8	228.0	223.2
67.5°	208.6	206.4	205.3	205.9	202.6	202.6	199.4	196.7	192.9	186.4	182.6
70°	170.7	169.7	168.6	167.5	167.0	164.8	163.2	159.9	156.2	151.3	145.4
72.5°	136.7	136.7	135.1	134.0	132.4	130.2	129.1	126.4	122.1	116.7	112.4
75°	104.3	104.3	104.3	102.1	101.0	100.0	96.7	95.1	90.2	87.0	81.6
77.5°	76.7	75.6	74.0	73.5	72.4	71.3	69.7	67.0	62.7	58.9	55.7
80°	48.6	50.3	48.6	48.6	45.9	44.8	44.3	41.1	39.4	36.2	33.5
82.5°	27.0	27.6	26.5	25.9	24.3	23.8	23.8	21.6	20.5	18.4	16.8
85°	9.7	10.3	9.7	9.7	8.6	9.2	8.6	8.1	7.0	5.9	5.4
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°	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1609.1	1608.0	1608.0	1607.5	1607.0	1607.0	1607.0	1606.4	1605.3	1605.3	1604.8
5°	1601.0	1599.9	1598.3	1597.2	1596.7	1596.2	1595.6	1595.1	1592.9	1592.4	1590.8
7.5°	1586.4	1585.4	1582.6	1581.6	1579.9	1579.4	1577.2	1576.2	1574.0	1571.8	1570.8
10°	1569.1	1566.4	1564.3	1561.6	1560.5	1558.9	1556.2	1552.9	1551.3	1548.6	1546.4
12.5°	1549.7	1546.4	1542.1	1538.9	1537.8	1535.1	1530.8	1528.1	1524.3	1520.0	1516.2
15°	1525.4	1521.6	1517.8	1511.9	1510.2	1507.0	1502.7	1497.3	1491.9	1487.6	1483.2
17.5°	1498.9	1493.0	1487.0	1480.5	1475.7	1474.0	1467.0	1459.5	1454.6	1447.0	1442.2
20°	1461.6	1453.5	1443.8	1437.3	1433.0	1428.1	1420.0	1411.9	1406.0	1399.5	1392.5
22.5°	1410.3	1402.7	1391.4	1381.6	1378.4	1371.4	1364.4	1356.8	1349.2	1342.2	1333.6
25°	1349.8	1341.7	1330.3	1320.6	1315.2	1311.9	1298.4	1290.9	1283.3	1277.4	1271.4
27.5°	1287.6	1273.0	1265.5	1250.3	1245.5	1244.4	1232.0	1223.9	1215.8	1207.7	1200.1
30°	1210.9	1199.6	1188.2	1177.4	1170.9	1167.1	1157.9	1147.7	1142.3	1136.9	1129.3
32.5°	1131.5	1121.2	1107.2	1096.9	1092.0	1086.6	1078.5	1071.5	1063.4	1057.4	1055.8
35°	1046.6	1035.3	1023.4	1015.8	1014.8	1008.3	1000.2	994.2	988.3	979.1	977.5
37.5°	955.9	949.4	941.3	930.5	925.6	925.6	917.5	913.2	905.6	905.1	900.7
40°	866.7	864.0	851.6	848.3	847.2	839.7	837.5	830.0	824.6	824.0	817.5
42.5°	778.6	771.6	769.4	764.0	759.2	758.1	753.2	750.0	747.8	744.6	741.3
45°	691.1	689.5	684.1	680.3	678.7	676.5	674.9	668.4	667.3	664.6	663.0
47.5°	615.4	611.1	606.3	601.9	601.4	598.2	594.4	594.4	588.4	587.9	586.8
50°	540.3	537.1	534.4	528.5	529.5	525.2	524.7	519.8	517.1	514.9	517.6
52.5°	474.4	467.9	466.9	462.0	460.4	460.9	455.0	453.3	452.3	450.1	449.0
55°	411.7	408.5	404.2	400.9	398.2	395.5	393.4	393.4	387.4	388.0	385.3
57.5°	356.6	353.9	348.5	343.7	342.6	339.3	336.6	333.9	333.4	329.6	326.9
60°	307.5	302.6	295.6	293.4	290.2	287.5	284.8	281.5	279.9	277.2	272.3
62.5°	261.5	253.4	250.7	246.4	242.6	241.0	236.7	232.9	230.2	226.4	222.6
65°	217.8	211.8	206.9	202.1	201.5	197.2	193.4	190.2	184.8	181.6	174.5
67.5°	177.8	172.4	167.0	162.1	158.3	157.2	151.3	147.5	143.7	137.2	131.3
70°	141.0	135.6	131.3	125.4	123.7	119.4	115.1	111.3	104.8	98.9	94.0
72.5°	107.5	101.6	96.7	92.4	89.7	85.9	81.6	77.3	70.8	64.8	60.5
75°	76.7	72.4	67.5	63.2	61.1	58.9	54.0	49.2	44.8	38.9	35.1
77.5°	51.9	47.5	43.2	39.4	36.7	35.1	31.9	28.1	24.3	21.1	18.4
80°	30.3	27.6	24.3	21.1	20.5	18.9	16.2	14.0	11.9	10.3	8.1
82.5°	14.6	13.0	10.8	9.2	8.1	7.6	6.5	5.4	4.3	3.8	3.8
85°	4.3	3.8	3.2	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°	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1603.2	1602.6	1602.1	1601.6	1600.5	1600.5	1598.9	1597.8	1597.8	1596.7	1596.2
5°	1589.1	1587.5	1587.0	1585.9	1584.8	1584.3	1582.1	1581.6	1580.5	1579.4	1579.4
7.5°	1569.1	1567.0	1564.8	1563.7	1563.2	1561.6	1560.5	1560.0	1558.3	1557.3	1555.1
10°	1542.7	1541.0	1538.3	1537.3	1536.2	1535.1	1532.4	1530.8	1530.2	1529.2	1528.1
12.5°	1511.9	1509.7	1507.0	1504.8	1503.8	1502.1	1499.4	1497.8	1497.8	1495.7	1495.7
15°	1478.9	1475.7	1470.8	1468.6	1468.1	1464.9	1462.7	1460.5	1457.8	1456.8	1456.8
17.5°	1436.8	1431.4	1427.0	1427.0	1424.9	1421.6	1418.4	1416.8	1415.1	1413.0	1411.9
20°	1387.0	1383.3	1378.4	1378.4	1373.5	1372.5	1369.2	1368.7	1364.9	1365.4	1363.8
22.5°	1327.1	1324.9	1322.2	1320.0	1317.3	1314.1	1312.5	1313.0	1311.4	1310.9	1310.3
25°	1266.6	1260.6	1257.4	1256.3	1255.2	1252.5	1251.4	1250.9	1250.9	1249.3	1249.8
27.5°	1196.8	1192.5	1188.2	1189.8	1187.7	1186.0	1185.0	1183.3	1184.4	1183.9	1184.4
30°	1125.5	1120.1	1117.4	1118.5	1118.0	1113.6	1115.8	1115.3	1115.8	1115.8	1116.9
32.5°	1050.4	1046.6	1046.1	1046.6	1041.8	1042.3	1040.2	1043.4	1043.9	1047.2	1044.5
35°	974.2	972.1	968.3	967.7	968.3	967.7	967.7	969.9	969.4	972.6	971.5
37.5°	895.9	894.8	891.0	892.1	889.9	893.7	894.8	893.7	897.5	896.4	895.9
40°	819.2	817.5	815.4	819.7	817.0	814.8	818.6	815.4	816.5	819.7	819.7
42.5°	741.3	738.6	738.6	738.6	738.1	738.1	739.7	741.3	740.3	740.8	745.1
45°	663.0	662.5	660.8	661.9	661.4	664.1	664.1	665.2	667.3	669.5	668.4
47.5°	587.3	586.3	587.9	586.8	587.3	585.7	586.8	590.0	592.8	589.0	592.8
50°	516.6	514.4	513.9	515.5	514.9	514.4	515.5	515.5	514.4	514.4	518.2
52.5°	449.0	446.9	445.2	447.9	446.3	446.9	444.7	444.7	445.8	444.7	443.1
55°	385.8	384.2	382.0	383.1	380.4	379.9	377.7	377.7	376.1	375.0	371.8
57.5°	325.3	324.2	319.3	318.8	319.3	315.6	311.8	310.2	305.8	304.8	304.2
60°	271.8	265.8	263.1	259.9	257.7	256.1	251.8	249.1	242.6	238.8	238.3
62.5°	216.1	213.4	210.2	205.3	204.2	198.8	194.5	187.5	184.3	179.4	174.5
65°	171.3	164.3	159.4	156.7	152.4	147.5	142.6	135.1	131.3	125.4	120.5
67.5°	125.4	119.4	112.9	110.8	107.0	101.0	96.2	89.7	86.5	81.1	79.4
70°	85.9	80.5	75.6	72.4	69.7	63.8	58.9	56.7	53.5	52.4	52.4
72.5°	55.1	50.3	44.8	43.2	41.1	37.8	34.6	33.5	34.6	34.0	34.0
75°	30.8	28.1	24.3	22.7	22.7	21.6	21.1	21.1	21.1	21.1	21.1
77.5°	15.7	14.0	13.0	12.4	12.4	12.4	13.0	13.0	13.0	13.5	13.0
80°	7.6	7.0	7.0	7.0	7.6	7.6	7.6	7.6	7.6	8.1	7.6
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	4.3	4.3	4.3	4.3	4.3
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: P684216

CATALOG NUMBER: LX6C35D010 EX6C359030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1595.6	1594.5	1594.5	1594.0	1594.0	1594.0	1594.0	1594.5
5°	1578.3	1577.8	1577.8	1576.7	1576.7	1576.7	1576.7	1576.7
7.5°	1555.1	1554.0	1554.6	1553.5	1553.5	1554.0	1553.5	1552.9
10°	1526.5	1525.9	1526.5	1526.5	1525.4	1524.8	1525.4	1525.9
12.5°	1494.0	1493.5	1492.4	1493.0	1493.0	1492.4	1491.9	1490.8
15°	1456.2	1455.7	1455.1	1454.6	1454.0	1454.6	1454.0	1453.0
17.5°	1411.9	1411.9	1411.4	1410.8	1410.3	1409.2	1409.7	1411.4
20°	1364.4	1363.8	1362.7	1363.3	1361.1	1360.0	1360.6	1362.2
22.5°	1309.8	1308.2	1309.2	1307.6	1307.6	1308.2	1307.6	1306.5
25°	1250.3	1248.2	1249.3	1249.8	1249.8	1249.3	1248.7	1249.3
27.5°	1184.4	1186.0	1186.0	1185.0	1186.6	1184.4	1185.5	1186.0
30°	1116.9	1115.3	1114.7	1116.9	1120.1	1117.4	1117.4	1118.0
32.5°	1047.2	1045.0	1045.0	1046.1	1045.6	1045.6	1047.7	1045.0
35°	972.6	973.7	969.4	972.1	973.1	972.1	972.6	972.6
37.5°	897.5	896.4	896.4	896.4	898.0	898.0	899.1	898.6
40°	823.5	821.3	820.8	821.9	819.7	821.3	821.3	819.7
42.5°	743.5	744.0	746.7	744.0	744.6	744.0	743.0	742.4
45°	669.5	671.1	670.0	669.5	670.0	667.9	668.4	670.0
47.5°	591.1	594.4	591.1	593.3	592.8	591.7	590.6	588.4
50°	517.6	518.7	518.2	517.6	517.1	516.6	513.9	512.2
52.5°	442.5	442.5	442.5	442.5	437.1	439.8	438.8	435.5
55°	369.1	370.7	368.5	368.5	364.7	364.7	363.6	364.2
57.5°	298.3	296.6	295.0	295.0	291.2	289.6	288.0	285.8
60°	232.3	230.7	228.6	225.9	222.1	222.1	221.0	216.7
62.5°	170.2	167.5	165.9	163.7	160.5	158.3	156.7	157.8
65°	116.7	114.0	111.8	111.8	111.8	110.8	110.2	110.2
67.5°	76.7	78.3	77.3	78.3	78.3	77.3	76.7	77.8
70°	53.0	53.0	52.4	52.4	52.4	52.4	51.9	52.4
72.5°	34.0	34.0	34.0	34.6	34.0	34.0	34.6	34.6
75°	21.6	21.6	21.6	22.2	21.6	21.6	22.2	21.6
77.5°	13.0	13.5	13.5	13.5	13.5	13.0	13.5	13.5
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)