

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252498

Luminaire Tested: **LD6B40D010 EU6B30509027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30509027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2914.0 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

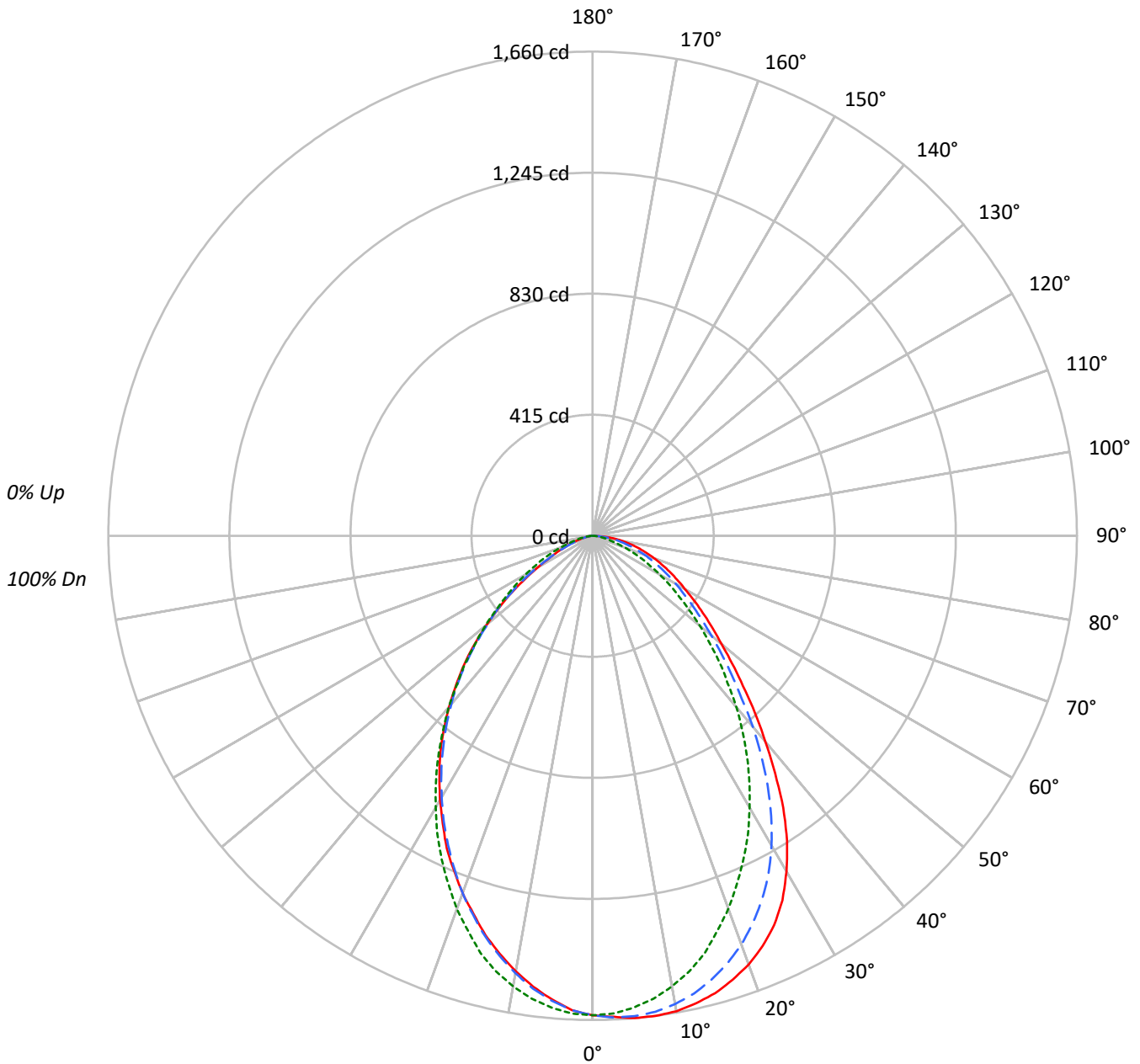
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	107249	107249	107249
5°	108707	106316	104522
10°	109659	103915	100437
15°	109648	100084	95768
20°	108585	94477	90513
25°	106012	88095	85137
30°	100103	81014	78776
35°	90739	73464	72556
40°	78361	65339	65143
45°	67205	56881	57296
50°	58401	48668	47967
55°	52459	41039	38434
60°	47665	34564	28301
65°	44768	28543	20794
70°	42690	22203	15241
75°	40861	16107	10360
80°	38585	11158	6875
85°	34209	6812	3443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	5.3
10°-20°	421.2	14.5
20°-30°	584.7	20.1
30°-40°	605.6	20.8
40°-50°	497.7	17.1
50°-60°	342.0	11.7
60°-70°	196.6	6.7
70°-80°	90.4	3.1
80°-90°	22.0	0.8
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°	1159.6	39.8
0°-40°	1765.3	60.6
0°-60°	2605.0	89.4
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1644	1644	1644	1644	1644	
5°	1660	1653	1623	1600	1596	158
15°	1623	1575	1482	1422	1418	457
25°	1473	1374	1224	1171	1183	674
35°	1139	1046	922	895	911	707
45°	728	674	616	610	621	567
55°	461	418	361	340	338	415
65°	290	253	185	130	135	289
75°	162	128	64	41	41	171
85°	46	32	9	5	5	51
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°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1650.8	1664.5	1655.3	1653.1	1657.6	1657.6	1657.6	1650.8	1655.3	1648.5	1653.1
5°	1659.9	1671.3	1662.2	1657.6	1662.2	1664.5	1657.6	1653.1	1659.9	1650.8	1653.1
7.5°	1659.9	1671.3	1662.2	1659.9	1662.2	1662.2	1659.9	1650.8	1655.3	1646.2	1646.2
10°	1655.3	1664.5	1655.3	1650.8	1653.1	1650.8	1650.8	1639.4	1641.6	1630.2	1630.2
12.5°	1641.6	1653.1	1641.6	1637.1	1637.1	1637.1	1630.2	1621.1	1623.4	1609.7	1607.4
15°	1623.4	1632.5	1621.1	1616.5	1616.5	1614.2	1609.7	1596.0	1596.0	1582.3	1575.4
17.5°	1596.0	1605.1	1596.0	1589.1	1586.8	1582.3	1577.7	1564.0	1559.4	1543.5	1536.6
20°	1564.0	1570.9	1561.7	1554.9	1550.3	1545.7	1536.6	1522.9	1518.3	1502.4	1491.0
22.5°	1522.9	1532.0	1518.3	1511.5	1506.9	1500.1	1491.0	1477.3	1470.4	1449.9	1436.2
25°	1472.7	1477.3	1465.8	1459.0	1449.9	1445.3	1438.4	1420.2	1413.3	1390.5	1374.5
27.5°	1408.8	1413.3	1399.6	1395.1	1383.6	1379.1	1369.9	1354.0	1344.8	1322.0	1306.0
30°	1328.8	1333.4	1324.3	1317.4	1308.3	1299.2	1292.3	1276.3	1262.6	1239.8	1226.1
32.5°	1239.8	1246.6	1237.5	1228.4	1212.4	1214.7	1203.3	1187.3	1175.9	1155.3	1139.3
35°	1139.3	1143.9	1132.5	1130.2	1121.1	1111.9	1100.5	1089.1	1082.3	1059.4	1045.7
37.5°	1027.5	1038.9	1027.5	1018.3	1013.8	1006.9	1000.1	984.1	979.5	965.8	947.5
40°	920.1	927.0	920.1	911.0	904.2	904.2	895.0	885.9	874.5	860.8	853.9
42.5°	824.2	819.7	817.4	812.8	803.7	801.4	799.1	787.7	780.9	767.2	755.7
45°	728.4	730.6	726.1	723.8	716.9	712.4	707.8	698.7	696.4	682.7	673.6
47.5°	648.4	646.2	641.6	641.6	637.0	632.5	627.9	621.0	618.8	607.3	598.2
50°	575.4	577.7	575.4	573.1	566.2	564.0	559.4	554.8	550.3	538.8	529.7
52.5°	516.0	513.7	511.4	511.4	504.6	502.3	497.7	493.2	488.6	477.2	470.3
55°	461.2	461.2	458.9	456.6	449.8	447.5	445.2	440.7	433.8	424.7	417.8
57.5°	411.0	411.0	408.7	406.4	401.8	401.8	397.3	392.7	388.1	379.0	369.9
60°	365.3	367.6	365.3	363.0	358.5	358.5	356.2	349.3	347.1	335.6	328.8
62.5°	326.5	326.5	326.5	324.2	321.9	317.4	317.4	310.5	306.0	299.1	290.0
65°	290.0	290.0	290.0	287.7	283.1	280.8	278.6	274.0	269.4	262.6	253.4
67.5°	255.7	255.7	255.7	253.4	248.9	246.6	244.3	242.0	235.2	228.3	219.2
70°	223.8	223.8	221.5	219.2	216.9	214.6	212.3	207.8	203.2	194.1	187.2
72.5°	191.8	191.8	191.8	187.2	184.9	184.9	180.4	178.1	173.5	164.4	157.5
75°	162.1	159.8	159.8	157.5	155.3	153.0	150.7	148.4	141.6	137.0	127.9
77.5°	132.4	132.4	130.1	127.9	127.9	125.6	123.3	118.7	116.4	109.6	102.7
80°	102.7	102.7	102.7	102.7	100.5	98.2	98.2	93.6	91.3	84.5	79.9
82.5°	77.6	75.3	75.3	75.3	73.1	70.8	70.8	68.5	66.2	61.6	57.1
85°	45.7	43.4	43.4	43.4	41.1	41.1	38.8	38.8	36.5	32.0	32.0
87.5°	13.7	13.7	16.0	16.0	13.7	13.7	13.7	13.7	13.7	11.4	11.4
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°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1648.5	1655.3	1646.2	1643.9	1653.1	1648.5	1646.2	1641.6	1643.9	1639.4	1632.5
5°	1646.2	1655.3	1643.9	1637.1	1648.5	1641.6	1637.1	1632.5	1632.5	1623.4	1618.8
7.5°	1639.4	1643.9	1632.5	1625.7	1632.5	1625.7	1621.1	1614.2	1612.0	1600.5	1593.7
10°	1621.1	1625.7	1612.0	1602.8	1609.7	1600.5	1593.7	1586.8	1582.3	1568.6	1559.4
12.5°	1596.0	1598.3	1582.3	1570.9	1575.4	1568.6	1557.2	1548.0	1543.5	1529.8	1518.3
15°	1561.7	1564.0	1545.7	1529.8	1534.3	1525.2	1511.5	1502.4	1495.5	1481.8	1465.8
17.5°	1520.6	1518.3	1497.8	1481.8	1484.1	1472.7	1459.0	1445.3	1436.2	1420.2	1408.8
20°	1475.0	1468.1	1445.3	1427.0	1429.3	1415.6	1399.6	1385.9	1374.5	1360.8	1344.8
22.5°	1417.9	1408.8	1388.2	1365.4	1367.7	1356.2	1333.4	1322.0	1310.6	1292.3	1278.6
25°	1356.2	1342.5	1322.0	1299.2	1299.2	1285.5	1267.2	1253.5	1242.1	1223.8	1207.8
27.5°	1283.2	1276.3	1248.9	1230.7	1228.4	1214.7	1198.7	1182.7	1169.0	1153.0	1137.0
30°	1203.3	1191.8	1171.3	1150.7	1146.2	1134.8	1118.8	1100.5	1091.4	1075.4	1061.7
32.5°	1118.8	1107.4	1084.5	1064.0	1061.7	1052.6	1038.9	1020.6	1011.5	1000.1	990.9
35°	1022.9	1018.3	995.5	979.5	979.5	970.4	956.7	940.7	933.8	922.4	911.0
37.5°	931.6	924.7	904.2	890.5	890.5	879.0	865.3	858.5	851.6	842.5	835.7
40°	835.7	831.1	815.1	801.4	803.7	794.6	785.4	776.3	771.7	767.2	760.3
42.5°	746.6	742.1	730.6	719.2	719.2	712.4	703.2	696.4	691.8	685.0	682.7
45°	666.7	659.9	650.7	639.3	639.3	632.5	627.9	623.3	621.0	616.5	609.6
47.5°	589.1	584.5	575.4	564.0	564.0	564.0	554.8	548.0	548.0	543.4	541.1
50°	522.9	516.0	509.2	500.0	500.0	495.5	488.6	481.8	481.8	479.5	474.9
52.5°	461.2	456.6	447.5	438.4	438.4	433.8	427.0	424.7	422.4	415.5	413.3
55°	408.7	404.1	397.3	385.9	383.6	381.3	374.5	369.9	367.6	360.8	360.8
57.5°	360.8	356.2	344.8	337.9	335.6	331.1	324.2	319.7	317.4	312.8	308.2
60°	319.7	312.8	303.7	294.5	292.3	287.7	280.8	276.3	274.0	264.9	260.3
62.5°	280.8	274.0	264.9	255.7	253.4	248.9	239.7	235.2	230.6	221.5	216.9
65°	244.3	237.5	228.3	219.2	214.6	212.3	203.2	196.4	191.8	184.9	175.8
67.5°	210.1	203.2	194.1	182.7	182.7	175.8	169.0	162.1	155.3	148.4	141.6
70°	178.1	171.2	162.1	153.0	150.7	146.1	139.3	130.1	125.6	116.4	109.6
72.5°	148.4	141.6	132.4	123.3	121.0	116.4	109.6	100.5	93.6	86.8	79.9
75°	121.0	114.2	105.0	98.2	95.9	91.3	84.5	75.3	68.5	63.9	57.1
77.5°	95.9	89.0	82.2	75.3	73.1	68.5	61.6	57.1	50.2	45.7	38.8
80°	73.1	68.5	61.6	57.1	54.8	50.2	45.7	38.8	34.2	29.7	27.4
82.5°	52.5	47.9	43.4	36.5	36.5	32.0	29.7	25.1	20.5	18.3	16.0
85°	29.7	25.1	22.8	20.5	18.3	18.3	16.0	13.7	11.4	9.1	9.1
87.5°	9.1	9.1	6.8	6.8	6.8	6.8	4.6	4.6	4.6	4.6	4.6
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°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1632.5	1634.8	1630.2	1634.8	1630.2	1632.5	1627.9	1632.5	1627.9	1632.5	1623.4
5°	1616.5	1616.5	1609.7	1614.2	1609.7	1612.0	1602.8	1605.1	1600.5	1605.1	1596.0
7.5°	1589.1	1591.4	1580.0	1584.6	1577.7	1577.7	1570.9	1573.1	1566.3	1568.6	1561.7
10°	1557.2	1554.9	1543.5	1548.0	1538.9	1538.9	1532.0	1532.0	1522.9	1525.2	1516.1
12.5°	1511.5	1509.2	1495.5	1500.1	1491.0	1491.0	1484.1	1484.1	1475.0	1479.5	1470.4
15°	1459.0	1456.7	1443.0	1445.3	1436.2	1436.2	1427.0	1429.3	1422.5	1427.0	1417.9
17.5°	1399.6	1397.3	1383.6	1385.9	1374.5	1376.8	1369.9	1367.7	1363.1	1365.4	1358.5
20°	1338.0	1333.4	1319.7	1322.0	1317.4	1310.6	1306.0	1308.3	1303.7	1308.3	1301.4
22.5°	1274.0	1264.9	1253.5	1253.5	1248.9	1248.9	1242.1	1246.6	1237.5	1244.4	1239.8
25°	1201.0	1194.1	1185.0	1189.6	1180.4	1180.4	1173.6	1175.9	1171.3	1175.9	1171.3
27.5°	1130.2	1125.6	1111.9	1116.5	1109.7	1111.9	1105.1	1107.4	1105.1	1109.7	1105.1
30°	1054.9	1052.6	1043.4	1043.4	1041.2	1038.9	1036.6	1036.6	1034.3	1041.2	1036.6
32.5°	984.1	977.2	968.1	974.9	963.5	970.4	965.8	970.4	965.8	970.4	968.1
35°	911.0	908.7	897.3	899.6	897.3	897.3	895.0	895.0	895.0	901.9	901.9
37.5°	833.4	831.1	824.2	826.5	822.0	819.7	819.7	824.2	824.2	828.8	828.8
40°	758.0	760.3	753.5	753.5	751.2	751.2	751.2	755.7	753.5	758.0	755.7
42.5°	682.7	682.7	675.8	678.1	675.8	678.1	678.1	682.7	682.7	685.0	682.7
45°	611.9	611.9	609.6	611.9	607.3	609.6	607.3	611.9	609.6	611.9	611.9
47.5°	541.1	541.1	541.1	538.8	538.8	538.8	538.8	538.8	536.6	541.1	538.8
50°	474.9	477.2	474.9	474.9	472.6	474.9	472.6	472.6	468.1	470.3	470.3
52.5°	415.5	415.5	411.0	411.0	411.0	408.7	408.7	408.7	406.4	406.4	401.8
55°	358.5	358.5	353.9	353.9	351.6	349.3	347.1	347.1	340.2	340.2	333.4
57.5°	306.0	303.7	296.8	296.8	292.3	290.0	287.7	285.4	280.8	276.3	274.0
60°	258.0	253.4	248.9	246.6	242.0	237.5	232.9	228.3	223.8	221.5	219.2
62.5°	212.3	205.5	200.9	198.6	194.1	187.2	182.7	178.1	173.5	171.2	166.7
65°	171.2	164.4	157.5	155.3	150.7	146.1	139.3	134.7	130.1	127.9	127.9
67.5°	134.7	127.9	118.7	118.7	114.2	109.6	105.0	100.5	98.2	100.5	100.5
70°	100.5	95.9	89.0	86.8	82.2	77.6	75.3	75.3	75.3	77.6	75.3
72.5°	75.3	68.5	63.9	61.6	59.4	57.1	57.1	57.1	54.8	57.1	57.1
75°	52.5	47.9	43.4	43.4	41.1	41.1	41.1	41.1	41.1	41.1	41.1
77.5°	36.5	32.0	29.7	29.7	29.7	27.4	27.4	27.4	27.4	27.4	27.4
80°	22.8	22.8	20.5	20.5	18.3	18.3	18.3	18.3	18.3	18.3	18.3
82.5°	13.7	13.7	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
85°	6.8	6.8	6.8	6.8	6.8	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	2.3	2.3	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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: P252498

CATALOG NUMBER: LD6B40D010 EU6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1623.4	1630.2	1621.1	1627.9	1625.7	1623.4	1618.8	1627.9
5°	1596.0	1598.3	1589.1	1598.3	1596.0	1591.4	1586.8	1596.0
7.5°	1557.2	1564.0	1552.6	1561.7	1559.4	1554.9	1550.3	1559.4
10°	1513.8	1520.6	1511.5	1518.3	1518.3	1513.8	1506.9	1516.1
12.5°	1465.8	1470.4	1461.3	1470.4	1468.1	1463.6	1461.3	1468.1
15°	1413.3	1420.2	1411.0	1417.9	1415.6	1413.3	1411.0	1417.9
17.5°	1356.2	1363.1	1356.2	1363.1	1363.1	1356.2	1354.0	1358.5
20°	1299.2	1303.7	1296.9	1303.7	1301.4	1301.4	1296.9	1303.7
22.5°	1235.2	1242.1	1237.5	1242.1	1239.8	1239.8	1237.5	1242.1
25°	1171.3	1178.1	1171.3	1178.1	1175.9	1175.9	1171.3	1182.7
27.5°	1107.4	1111.9	1105.1	1114.2	1111.9	1107.4	1109.7	1111.9
30°	1038.9	1043.4	1038.9	1045.7	1045.7	1045.7	1041.2	1045.7
32.5°	970.4	977.2	970.4	977.2	974.9	974.9	972.7	977.2
35°	901.9	904.2	899.6	906.4	906.4	908.7	904.2	911.0
37.5°	831.1	833.4	831.1	833.4	837.9	831.1	835.7	837.9
40°	758.0	762.6	760.3	762.6	762.6	764.9	762.6	764.9
42.5°	685.0	689.5	685.0	691.8	689.5	689.5	691.8	691.8
45°	609.6	616.5	611.9	616.5	618.8	616.5	616.5	621.0
47.5°	538.8	543.4	541.1	543.4	543.4	543.4	543.4	548.0
50°	468.1	470.3	470.3	472.6	472.6	474.9	470.3	472.6
52.5°	397.3	401.8	401.8	401.8	399.6	401.8	401.8	401.8
55°	333.4	335.6	331.1	335.6	335.6	333.4	333.4	337.9
57.5°	271.7	271.7	271.7	271.7	271.7	269.4	271.7	271.7
60°	214.6	216.9	214.6	214.6	214.6	214.6	212.3	216.9
62.5°	166.7	166.7	164.4	166.7	166.7	166.7	169.0	169.0
65°	130.1	132.4	130.1	132.4	132.4	132.4	132.4	134.7
67.5°	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7
70°	77.6	77.6	77.6	79.9	77.6	77.6	77.6	79.9
72.5°	57.1	57.1	57.1	57.1	57.1	57.1	59.4	59.4
75°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
77.5°	27.4	27.4	27.4	29.7	27.4	29.7	27.4	27.4
80°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
82.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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













(END OF REPORT)