

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: P252400

Luminaire Tested: **LD6B40D010 EU6B30509730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30509730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

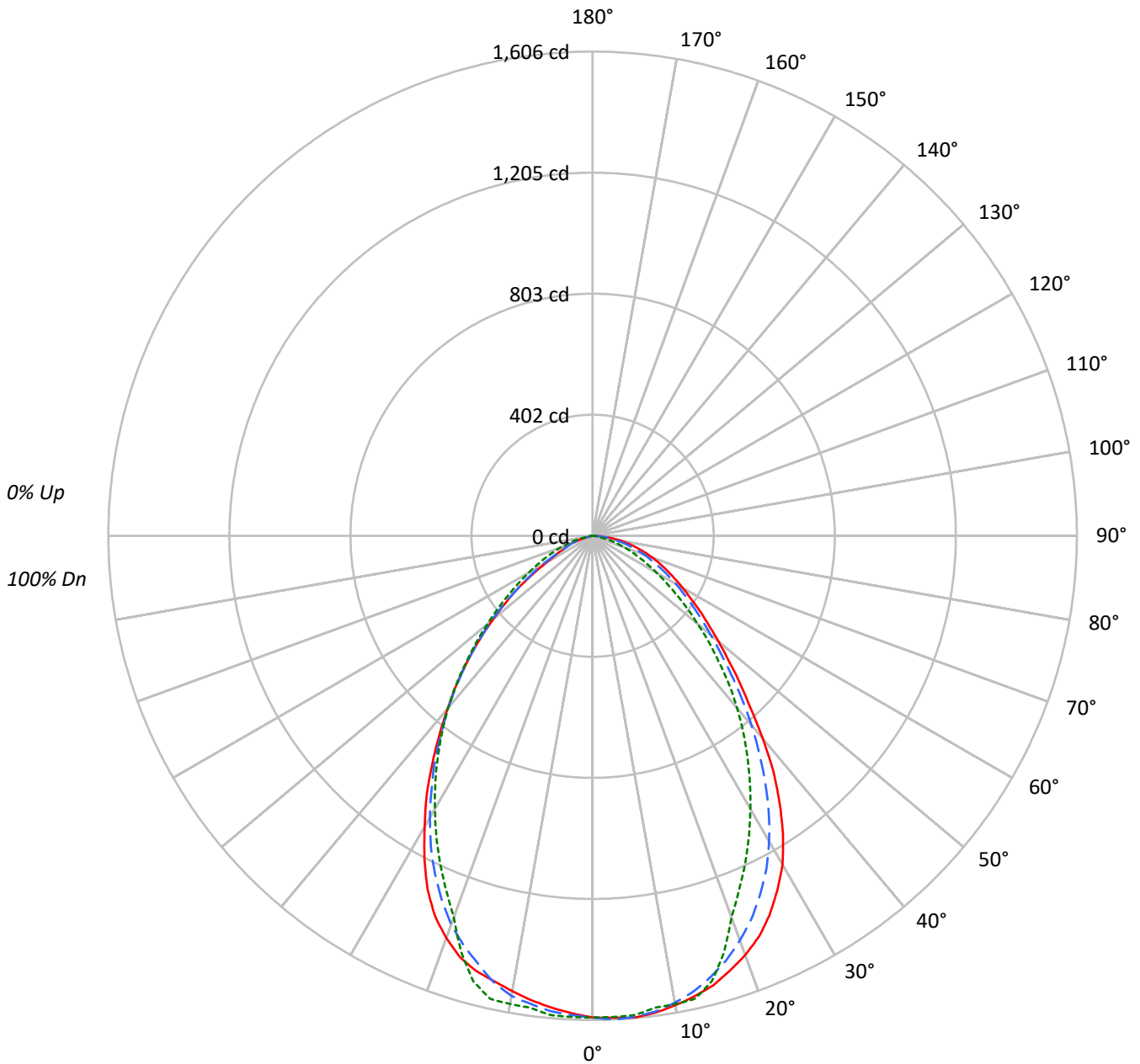
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	104241	104241	104241
5°	105052	104509	102878
10°	104750	104478	101590
15°	104278	103299	100915
20°	102725	93498	98546
25°	99930	86188	93213
30°	94890	78791	83944
35°	86103	71234	73878
40°	74758	63448	63619
45°	63755	54565	53993
50°	55184	46120	43593
55°	49331	38468	33748
60°	44951	31955	22743
65°	41958	26274	16981
70°	39981	21383	14249
75°	37659	15175	4714
80°	35880	7815	1578
85°	29493	4641	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	5.4
10°-20°	422.0	15.0
20°-30°	582.5	20.7
30°-40°	592.8	21.0
40°-50°	476.4	16.9
50°-60°	316.8	11.2
60°-70°	180.5	6.4
70°-80°	81.1	2.9
80°-90°	17.1	0.6
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°	1155.4	41.0
0°-40°	1748.2	62.0
0°-60°	2541.3	90.1
0°-90°	2820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1598	1598	1598	1598	1598	
5°	1604	1602	1596	1583	1571	152
15°	1544	1515	1529	1469	1494	434
25°	1388	1314	1197	1237	1295	636
35°	1081	998	894	911	928	672
45°	691	650	591	585	585	536
55°	434	405	338	301	297	390
65°	272	243	170	110	110	271
75°	149	124	60	25	19	160
85°	39	27	6	2	0	47
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°	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8
2.5°	1599.9	1608.2	1606.1	1604.1	1606.1	1604.1	1599.9	1599.9	1595.8	1595.8	1606.1
5°	1604.1	1608.2	1606.1	1604.1	1604.1	1606.1	1597.8	1597.8	1593.7	1591.6	1602.0
7.5°	1595.8	1602.0	1597.8	1597.8	1595.8	1597.8	1589.5	1589.5	1583.3	1581.2	1591.6
10°	1581.2	1589.5	1585.4	1585.4	1585.4	1581.2	1577.1	1575.0	1568.8	1566.7	1572.9
12.5°	1564.6	1570.9	1568.8	1564.6	1564.6	1564.6	1556.3	1554.3	1546.0	1541.8	1548.0
15°	1543.9	1548.0	1546.0	1543.9	1539.7	1539.7	1531.4	1527.3	1519.0	1510.7	1514.8
17.5°	1512.8	1519.0	1514.8	1512.8	1506.5	1506.5	1498.2	1494.1	1481.6	1473.3	1475.4
20°	1479.6	1481.6	1479.6	1475.4	1469.2	1467.1	1458.8	1450.5	1440.1	1429.8	1427.7
22.5°	1440.1	1442.2	1436.0	1431.8	1425.6	1423.5	1413.2	1406.9	1390.3	1377.9	1375.8
25°	1388.2	1390.3	1390.3	1379.9	1375.8	1371.6	1361.3	1350.9	1336.4	1319.8	1313.5
27.5°	1326.0	1332.2	1328.1	1317.7	1309.4	1307.3	1296.9	1288.6	1270.0	1255.4	1247.1
30°	1259.6	1257.5	1255.4	1249.2	1236.8	1234.7	1224.3	1213.9	1199.4	1180.7	1170.4
32.5°	1174.5	1174.5	1172.4	1166.2	1153.8	1149.6	1141.3	1128.9	1112.3	1097.7	1087.4
35°	1081.1	1083.2	1081.1	1068.7	1060.4	1056.2	1052.1	1037.6	1023.0	1006.4	998.1
37.5°	983.6	977.4	979.5	969.1	958.7	962.9	950.4	944.2	927.6	915.1	906.8
40°	877.8	881.9	873.6	869.5	863.2	857.0	857.0	846.6	838.3	823.8	819.7
42.5°	774.0	780.2	778.2	774.0	765.7	767.8	757.4	753.3	742.9	736.7	730.4
45°	691.0	691.0	691.0	686.9	684.8	680.6	674.4	668.2	662.0	653.7	649.5
47.5°	610.1	610.1	612.2	608.0	603.9	601.8	597.6	597.6	587.3	579.0	574.8
50°	543.7	543.7	543.7	539.5	535.4	535.4	531.2	527.1	520.9	514.6	510.5
52.5°	483.5	483.5	483.5	479.4	477.3	475.2	473.1	471.1	462.7	458.6	454.4
55°	433.7	431.6	431.6	429.5	425.4	425.4	423.3	419.2	412.9	406.7	404.6
57.5°	383.9	386.0	383.9	383.9	379.7	379.7	375.6	373.5	367.3	363.1	359.0
60°	344.5	344.5	344.5	342.4	338.2	340.3	336.2	334.1	327.9	321.6	317.5
62.5°	305.0	307.1	307.1	305.0	300.9	300.9	298.8	296.7	290.5	284.3	278.1
65°	271.8	271.8	271.8	269.8	267.7	267.7	265.6	263.5	257.3	249.0	242.8
67.5°	240.7	238.6	238.6	238.6	236.6	234.5	232.4	230.3	224.1	217.9	209.6
70°	209.6	209.6	209.6	207.5	203.4	205.4	203.4	201.3	195.1	188.8	182.6
72.5°	180.5	180.5	178.5	176.4	176.4	174.3	174.3	172.2	166.0	157.7	151.5
75°	149.4	149.4	149.4	149.4	145.3	147.3	143.2	141.1	137.0	130.7	124.5
77.5°	122.4	122.4	122.4	120.4	118.3	118.3	116.2	114.1	107.9	103.8	95.5
80°	95.5	95.5	95.5	95.5	93.4	91.3	89.2	87.2	83.0	76.8	70.6
82.5°	70.6	70.6	68.5	68.5	68.5	66.4	64.3	62.3	58.1	54.0	49.8
85°	39.4	41.5	41.5	37.4	39.4	37.4	37.4	33.2	33.2	29.1	27.0
87.5°	14.5	12.5	12.5	12.5	12.5	12.5	12.5	10.4	10.4	10.4	8.3
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°	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8
2.5°	1597.8	1595.8	1604.1	1604.1	1591.6	1597.8	1599.9	1595.8	1595.8	1597.8	1591.6
5°	1593.7	1589.5	1597.8	1599.9	1587.5	1593.7	1595.8	1591.6	1593.7	1595.8	1587.5
7.5°	1579.2	1579.2	1585.4	1587.5	1575.0	1581.2	1581.2	1577.1	1579.2	1579.2	1572.9
10°	1564.6	1558.4	1564.6	1564.6	1554.3	1556.3	1560.5	1558.4	1566.7	1577.1	1577.1
12.5°	1537.7	1531.4	1541.8	1541.8	1535.6	1543.9	1554.3	1560.5	1568.8	1572.9	1560.5
15°	1504.5	1506.5	1525.2	1539.7	1533.5	1546.0	1556.3	1552.2	1541.8	1529.4	1510.7
17.5°	1460.9	1454.7	1471.3	1479.6	1471.3	1475.4	1483.7	1475.4	1458.8	1448.4	1423.5
20°	1411.1	1394.5	1394.5	1390.3	1375.8	1375.8	1373.7	1359.2	1353.0	1346.7	1336.4
22.5°	1355.0	1336.4	1330.1	1317.7	1305.2	1303.2	1296.9	1282.4	1274.1	1270.0	1257.5
25°	1290.7	1274.1	1263.7	1251.3	1232.6	1228.5	1222.2	1207.7	1203.6	1197.3	1187.0
27.5°	1224.3	1203.6	1189.0	1176.6	1160.0	1157.9	1145.5	1135.1	1126.8	1122.6	1114.3
30°	1147.5	1124.7	1114.3	1097.7	1085.3	1081.1	1070.8	1056.2	1050.0	1045.9	1039.6
32.5°	1062.5	1043.8	1033.4	1018.9	1002.3	1004.4	991.9	979.5	975.3	971.2	964.9
35°	979.5	960.8	948.3	935.9	925.5	921.3	913.0	902.7	896.4	894.4	890.2
37.5°	888.1	873.6	863.2	850.8	842.5	838.3	834.2	823.8	819.7	819.7	811.4
40°	798.9	786.5	778.2	771.9	761.6	759.5	755.3	749.1	747.0	745.0	738.7
42.5°	718.0	701.4	695.2	691.0	684.8	680.6	678.6	674.4	672.3	670.3	664.0
45°	641.2	626.7	620.5	616.3	610.1	608.0	605.9	599.7	595.6	591.4	589.3
47.5°	566.5	556.1	554.1	543.7	539.5	535.4	531.2	527.1	525.0	522.9	514.6
50°	502.2	496.0	485.6	479.4	475.2	473.1	464.8	458.6	456.5	454.4	448.2
52.5°	444.1	435.8	429.5	419.2	417.1	412.9	408.8	400.5	396.3	394.3	388.0
55°	392.2	386.0	377.7	369.4	363.1	361.1	354.8	346.5	342.4	338.2	334.1
57.5°	348.6	338.2	329.9	321.6	317.5	311.3	305.0	300.9	294.7	288.4	282.2
60°	307.1	298.8	288.4	280.1	276.0	271.8	263.5	257.3	251.1	244.9	238.6
62.5°	267.7	259.4	249.0	240.7	236.6	232.4	224.1	217.9	211.7	205.4	197.1
65°	232.4	224.1	215.8	207.5	203.4	199.2	190.9	182.6	176.4	170.2	161.9
67.5°	203.4	193.0	184.7	176.4	172.2	168.1	159.8	153.6	145.3	139.0	130.7
70°	172.2	163.9	157.7	149.4	145.3	141.1	132.8	124.5	118.3	112.1	103.8
72.5°	145.3	134.9	128.7	120.4	116.2	114.1	105.8	99.6	93.4	85.1	78.9
75°	116.2	107.9	99.6	93.4	89.2	87.2	78.9	72.6	66.4	60.2	54.0
77.5°	89.2	83.0	74.7	68.5	64.3	62.3	54.0	47.7	41.5	37.4	31.1
80°	66.4	58.1	54.0	47.7	45.7	41.5	37.4	31.1	27.0	20.8	16.6
82.5°	45.7	39.4	35.3	31.1	29.1	27.0	22.8	18.7	14.5	12.5	10.4
85°	24.9	20.8	18.7	16.6	14.5	14.5	12.5	10.4	8.3	6.2	4.2
87.5°	8.3	6.2	6.2	6.2	6.2	4.2	4.2	4.2	2.1	2.1	2.1
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°	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8
2.5°	1595.8	1595.8	1595.8	1593.7	1593.7	1593.7	1591.6	1599.9	1591.6	1589.5	1595.8
5°	1593.7	1589.5	1589.5	1589.5	1589.5	1587.5	1585.4	1589.5	1583.3	1581.2	1581.2
7.5°	1581.2	1579.2	1579.2	1577.1	1575.0	1572.9	1570.9	1572.9	1566.7	1564.6	1564.6
10°	1583.3	1579.2	1579.2	1572.9	1568.8	1562.6	1556.3	1558.4	1550.1	1543.9	1543.9
12.5°	1558.4	1548.0	1541.8	1535.6	1531.4	1529.4	1521.1	1525.2	1516.9	1514.8	1514.8
15°	1502.4	1489.9	1479.6	1475.4	1475.4	1471.3	1465.0	1473.3	1469.2	1471.3	1481.6
17.5°	1415.2	1409.0	1402.8	1400.7	1402.8	1406.9	1411.1	1423.5	1423.5	1429.8	1440.1
20°	1338.4	1334.3	1338.4	1338.4	1340.5	1348.8	1357.1	1367.5	1371.6	1377.9	1392.4
22.5°	1263.7	1263.7	1267.9	1274.1	1272.0	1286.6	1288.6	1307.3	1307.3	1319.8	1332.2
25°	1191.1	1191.1	1195.3	1197.3	1201.5	1209.8	1218.1	1232.6	1236.8	1249.2	1259.6
27.5°	1120.6	1118.5	1118.5	1120.6	1124.7	1135.1	1139.2	1155.8	1162.1	1170.4	1180.7
30°	1041.7	1039.6	1043.8	1047.9	1045.9	1056.2	1062.5	1074.9	1079.1	1087.4	1095.7
32.5°	967.0	967.0	967.0	971.2	971.2	979.5	979.5	994.0	994.0	1000.2	1008.5
35°	890.2	890.2	892.3	894.4	896.4	898.5	900.6	908.9	911.0	913.0	917.2
37.5°	817.6	815.5	817.6	817.6	813.4	821.7	821.7	830.0	823.8	830.0	832.1
40°	742.9	742.9	740.8	740.8	740.8	745.0	740.8	747.0	742.9	747.0	745.0
42.5°	666.1	666.1	662.0	666.1	664.0	664.0	664.0	668.2	662.0	666.1	668.2
45°	589.3	587.3	587.3	585.2	585.2	585.2	587.3	587.3	585.2	589.3	589.3
47.5°	514.6	512.6	512.6	512.6	512.6	514.6	508.4	512.6	508.4	508.4	508.4
50°	450.3	448.2	446.1	444.1	442.0	442.0	439.9	439.9	435.8	433.7	431.6
52.5°	388.0	386.0	381.8	381.8	379.7	377.7	371.4	371.4	365.2	363.1	363.1
55°	332.0	325.8	323.7	319.6	319.6	315.4	311.3	307.1	300.9	296.7	296.7
57.5°	280.1	273.9	269.8	267.7	265.6	261.5	253.2	251.1	242.8	240.7	238.6
60°	234.5	228.3	222.0	217.9	215.8	209.6	201.3	197.1	193.0	186.8	180.5
62.5°	190.9	184.7	176.4	174.3	170.2	163.9	157.7	151.5	147.3	141.1	137.0
65°	153.6	147.3	141.1	137.0	132.8	126.6	120.4	114.1	110.0	107.9	105.8
67.5°	124.5	116.2	110.0	107.9	103.8	99.6	93.4	91.3	87.2	87.2	87.2
70°	97.5	91.3	85.1	83.0	80.9	76.8	72.6	72.6	72.6	72.6	72.6
72.5°	72.6	68.5	62.3	60.2	58.1	56.0	51.9	54.0	51.9	51.9	51.9
75°	45.7	41.5	37.4	35.3	33.2	31.1	29.1	27.0	24.9	22.8	22.8
77.5°	24.9	20.8	18.7	16.6	16.6	14.5	12.5	12.5	10.4	10.4	10.4
80°	14.5	12.5	10.4	8.3	8.3	6.2	6.2	6.2	6.2	4.2	4.2
82.5°	8.3	6.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
85°	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P252400

CATALOG NUMBER: LD6B40D010 EU6B30509730 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8
2.5°	1585.4	1591.6	1585.4	1591.6	1591.6	1591.6	1591.6	1585.4
5°	1575.0	1579.2	1572.9	1577.1	1579.2	1577.1	1577.1	1570.9
7.5°	1556.3	1560.5	1554.3	1560.5	1562.6	1560.5	1558.4	1554.3
10°	1537.7	1539.7	1533.5	1537.7	1541.8	1541.8	1539.7	1533.5
12.5°	1508.6	1514.8	1508.6	1512.8	1516.9	1519.0	1519.0	1512.8
15°	1475.4	1485.8	1481.6	1487.9	1494.1	1496.2	1496.2	1494.1
17.5°	1442.2	1452.6	1446.4	1456.7	1463.0	1467.1	1469.2	1465.0
20°	1394.5	1406.9	1402.8	1411.1	1419.4	1425.6	1425.6	1419.4
22.5°	1332.2	1348.8	1346.7	1353.0	1363.3	1365.4	1369.6	1365.4
25°	1263.7	1276.2	1274.1	1280.3	1292.8	1292.8	1294.9	1294.9
27.5°	1184.9	1197.3	1195.3	1199.4	1207.7	1209.8	1211.9	1207.7
30°	1099.8	1106.0	1106.0	1112.3	1118.5	1120.6	1120.6	1114.3
32.5°	1006.4	1014.7	1018.9	1016.8	1023.0	1027.2	1025.1	1025.1
35°	921.3	923.4	925.5	927.6	929.6	933.8	929.6	927.6
37.5°	830.0	836.3	832.1	836.3	840.4	838.3	836.3	836.3
40°	747.0	749.1	745.0	749.1	751.2	751.2	751.2	747.0
42.5°	664.0	668.2	664.0	668.2	668.2	668.2	668.2	666.1
45°	581.0	585.2	585.2	587.3	587.3	585.2	585.2	585.2
47.5°	504.3	508.4	504.3	508.4	510.5	506.3	506.3	506.3
50°	431.6	429.5	429.5	431.6	431.6	431.6	431.6	429.5
52.5°	356.9	359.0	359.0	359.0	361.1	359.0	361.1	361.1
55°	292.6	292.6	292.6	294.7	292.6	292.6	294.7	296.7
57.5°	234.5	232.4	230.3	230.3	232.4	230.3	230.3	230.3
60°	180.5	178.5	176.4	176.4	176.4	176.4	176.4	174.3
62.5°	134.9	134.9	134.9	137.0	137.0	137.0	137.0	139.0
65°	107.9	107.9	107.9	107.9	107.9	107.9	107.9	110.0
67.5°	87.2	87.2	87.2	89.2	89.2	89.2	89.2	89.2
70°	72.6	72.6	74.7	72.6	74.7	74.7	74.7	74.7
72.5°	49.8	49.8	49.8	49.8	49.8	47.7	49.8	47.7
75°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	18.7
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0
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)