

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: P252712

Luminaire Tested: **LD6B40D010 EU6B30509730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30509730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.0 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

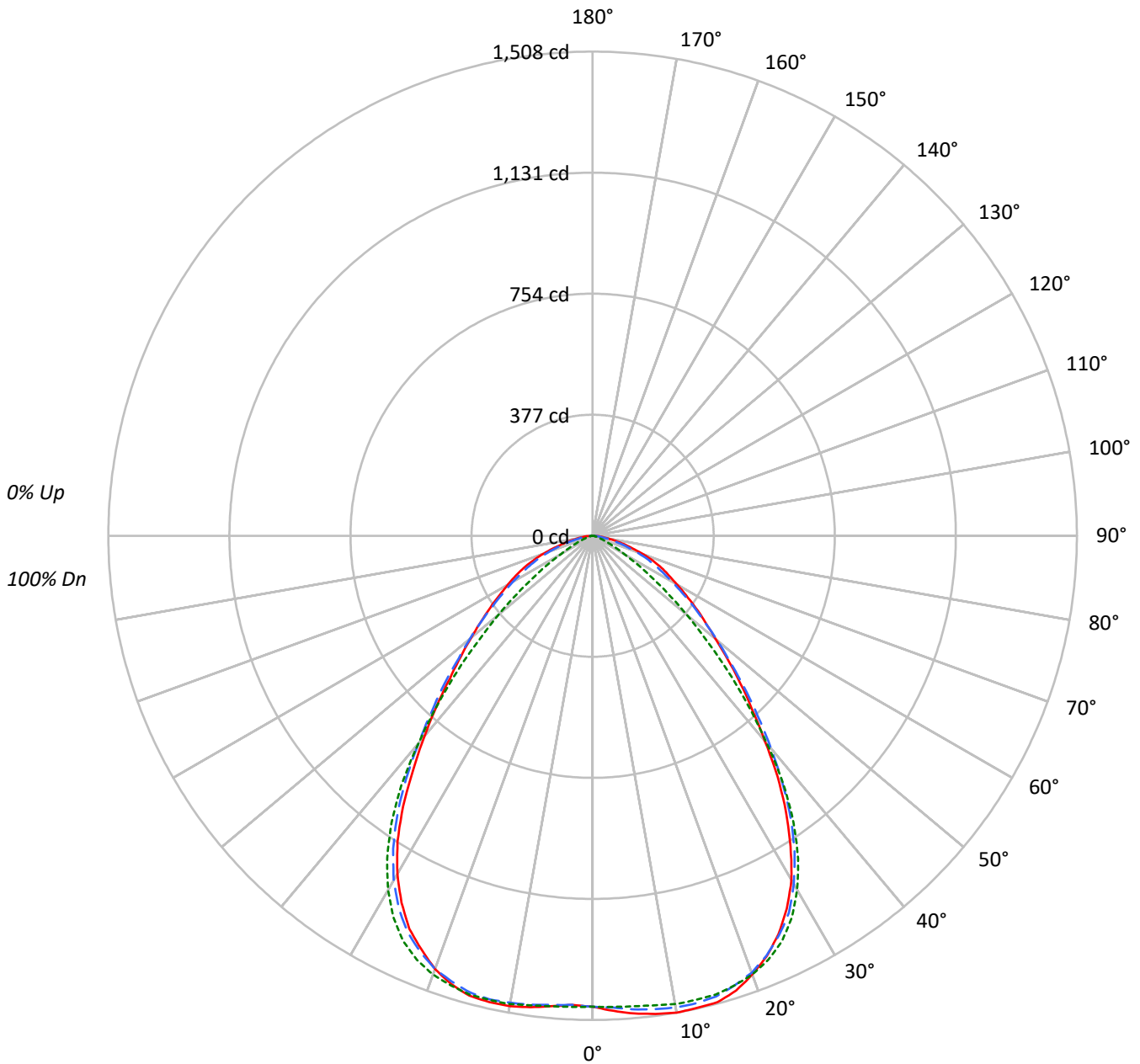
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95682	95682	95682
5°	97816	96322	96322
10°	99907	98119	98536
15°	101583	99901	100178
20°	100962	100962	99663
25°	98555	100347	97216
30°	93293	95952	91575
35°	83602	86908	81946
40°	71020	71905	69257
45°	60101	54934	57997
50°	50738	38741	50109
55°	44599	25012	44121
60°	39523	14888	39784
65°	36509	8969	36509
70°	31665	5150	30863
75°	25106	3126	23518
80°	18710	2329	17921
85°	17067	1572	15495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	4.9
10°-20°	417.9	14.4
20°-30°	628.5	21.6
30°-40°	660.8	22.7
40°-50°	493.6	17.0
50°-60°	307.3	10.6
60°-70°	174.8	6.0
70°-80°	72.0	2.5
80°-90°	14.9	0.5
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°	1187.6	40.8
0°-40°	1848.4	63.5
0°-60°	2649.4	91.0
0°-90°	2911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1467	1467	1467	1467	1467	
5°	1494	1481	1471	1467	1471	143
15°	1504	1485	1479	1473	1483	423
25°	1369	1373	1394	1363	1350	627
35°	1050	1077	1091	1060	1029	651
45°	651	666	595	653	629	505
55°	392	384	220	378	388	353
65°	236	212	58	212	236	233
75°	100	79	12	77	93	108
85°	23	14	2	12	21	25
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°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1481.1	1479.1	1481.1	1477.0	1474.9	1474.9	1477.0	1472.8	1470.8	1472.8	1470.8
5°	1493.6	1489.4	1491.5	1489.4	1485.3	1485.3	1487.4	1481.1	1481.1	1483.2	1481.1
7.5°	1501.9	1501.9	1501.9	1497.7	1495.7	1493.6	1497.7	1491.5	1489.4	1489.4	1487.4
10°	1508.1	1506.0	1508.1	1504.0	1499.8	1497.7	1501.9	1497.7	1493.6	1497.7	1491.5
12.5°	1506.0	1506.0	1506.0	1504.0	1499.8	1497.7	1501.9	1495.7	1493.6	1495.7	1491.5
15°	1504.0	1497.7	1499.8	1497.7	1491.5	1491.5	1493.6	1487.4	1483.2	1489.4	1485.3
17.5°	1485.3	1481.1	1483.2	1479.1	1474.9	1472.8	1474.9	1472.8	1468.7	1472.8	1468.7
20°	1454.2	1454.2	1456.3	1452.1	1448.0	1445.9	1450.0	1445.9	1441.7	1448.0	1448.0
22.5°	1416.8	1416.8	1416.8	1414.8	1412.7	1412.7	1412.7	1410.6	1408.5	1412.7	1414.8
25°	1369.1	1367.1	1369.1	1371.2	1369.1	1367.1	1369.1	1369.1	1365.0	1373.3	1373.3
27.5°	1309.0	1309.0	1313.1	1311.0	1311.0	1309.0	1313.1	1313.1	1311.0	1317.3	1323.5
30°	1238.4	1234.3	1238.4	1238.4	1240.5	1240.5	1242.6	1242.6	1242.6	1248.8	1253.0
32.5°	1147.2	1149.2	1155.5	1153.4	1151.3	1157.5	1157.5	1161.7	1163.8	1167.9	1170.0
35°	1049.7	1051.7	1051.7	1053.8	1058.0	1053.8	1064.2	1062.1	1064.2	1072.5	1076.6
37.5°	945.9	939.7	950.1	945.9	948.0	948.0	952.2	954.2	960.5	970.8	970.8
40°	833.9	836.0	840.1	842.2	844.3	844.3	844.3	850.5	852.6	865.0	863.0
42.5°	736.4	736.4	740.6	742.6	742.6	742.6	742.6	748.9	753.0	757.2	761.3
45°	651.4	645.1	649.3	649.3	653.4	651.4	655.5	659.7	661.7	668.0	665.9
47.5°	570.5	568.4	570.5	572.5	570.5	572.5	574.6	576.7	578.8	578.8	578.8
50°	499.9	499.9	502.0	504.1	504.1	504.1	504.1	506.2	506.2	510.3	506.2
52.5°	441.9	443.9	443.9	441.9	443.9	443.9	446.0	446.0	443.9	443.9	437.7
55°	392.1	390.0	392.1	390.0	392.1	392.1	390.0	390.0	387.9	385.8	383.8
57.5°	344.4	344.4	344.4	344.4	342.3	344.4	342.3	340.2	340.2	336.1	329.8
60°	302.9	302.9	302.9	302.9	302.9	300.8	302.9	300.8	296.6	292.5	284.2
62.5°	267.6	265.5	267.6	265.5	265.5	263.5	263.5	261.4	257.2	253.1	244.8
65°	236.5	238.6	236.5	236.5	234.4	232.3	232.3	230.3	224.0	219.9	211.6
67.5°	203.3	201.2	201.2	201.2	199.1	199.1	199.1	195.0	190.8	184.6	176.3
70°	166.0	166.0	166.0	163.9	163.9	161.8	161.8	159.7	155.6	151.4	141.1
72.5°	130.7	130.7	130.7	126.5	128.6	126.5	126.5	122.4	120.3	114.1	107.9
75°	99.6	99.6	97.5	97.5	95.4	93.3	93.3	91.3	89.2	85.1	78.8
77.5°	72.6	72.6	72.6	70.5	68.5	66.4	66.4	64.3	62.2	60.2	56.0
80°	49.8	49.8	49.8	49.8	47.7	45.6	45.6	43.6	43.6	41.5	37.3
82.5°	33.2	33.2	33.2	33.2	31.1	31.1	31.1	29.0	27.0	27.0	22.8
85°	22.8	22.8	20.7	20.7	20.7	20.7	18.7	18.7	16.6	14.5	14.5
87.5°	12.4	12.4	12.4	12.4	10.4	10.4	10.4	10.4	8.3	8.3	6.2
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°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1477.0	1477.0	1474.9	1468.7	1470.8	1468.7	1470.8	1468.7	1462.5	1468.7	1462.5
5°	1485.3	1487.4	1483.2	1474.9	1477.0	1474.9	1474.9	1472.8	1466.6	1470.8	1466.6
7.5°	1493.6	1491.5	1489.4	1481.1	1483.2	1481.1	1481.1	1477.0	1470.8	1474.9	1468.7
10°	1497.7	1497.7	1493.6	1485.3	1485.3	1483.2	1485.3	1483.2	1474.9	1481.1	1477.0
12.5°	1497.7	1495.7	1495.7	1485.3	1487.4	1485.3	1487.4	1483.2	1477.0	1481.1	1479.1
15°	1491.5	1491.5	1489.4	1479.1	1481.1	1481.1	1483.2	1479.1	1472.8	1479.1	1474.9
17.5°	1479.1	1479.1	1477.0	1468.7	1472.8	1472.8	1474.9	1470.8	1464.5	1468.7	1468.7
20°	1454.2	1456.3	1456.3	1450.0	1454.2	1454.2	1456.3	1454.2	1452.1	1454.2	1450.0
22.5°	1425.1	1429.3	1429.3	1423.1	1427.2	1427.2	1433.4	1431.4	1427.2	1429.3	1427.2
25°	1381.6	1385.7	1389.9	1385.7	1389.9	1389.9	1396.1	1394.0	1389.9	1394.0	1387.8
27.5°	1331.8	1333.9	1338.0	1333.9	1340.1	1338.0	1344.2	1342.2	1335.9	1342.2	1340.1
30°	1261.3	1269.6	1275.8	1269.6	1275.8	1275.8	1279.9	1277.9	1275.8	1273.7	1273.7
32.5°	1182.4	1190.7	1190.7	1188.7	1192.8	1192.8	1194.9	1190.7	1188.7	1190.7	1192.8
35°	1084.9	1089.1	1093.2	1091.2	1093.2	1095.3	1093.2	1095.3	1089.1	1091.2	1091.2
37.5°	979.1	983.3	983.3	977.1	981.2	981.2	977.1	977.1	972.9	977.1	968.8
40°	867.1	863.0	865.0	860.9	856.7	856.7	854.7	846.4	842.2	844.3	846.4
42.5°	757.2	757.2	750.9	740.6	730.2	730.2	724.0	719.8	711.5	715.7	713.6
45°	663.8	653.4	645.1	628.6	622.3	618.2	607.8	597.4	593.3	595.4	593.3
47.5°	574.6	566.3	545.6	522.8	516.5	510.3	497.9	485.4	481.3	477.1	477.1
50°	499.9	485.4	462.6	437.7	427.3	417.0	400.4	387.9	379.6	381.7	381.7
52.5°	431.5	414.9	387.9	356.8	344.4	331.9	317.4	302.9	296.6	294.6	294.6
55°	371.3	352.7	325.7	290.4	280.0	265.5	246.9	230.3	222.0	219.9	224.0
57.5°	317.4	300.8	269.7	234.4	222.0	207.4	188.8	174.3	163.9	161.8	163.9
60°	273.8	251.0	224.0	190.8	174.3	161.8	141.1	128.6	118.2	114.1	116.2
62.5°	230.3	209.5	182.6	149.4	136.9	124.5	105.8	91.3	83.0	80.9	83.0
65°	197.1	176.3	151.4	122.4	109.9	97.5	80.9	66.4	60.2	58.1	60.2
67.5°	163.9	145.2	124.5	97.5	87.1	76.8	60.2	49.8	41.5	39.4	41.5
70°	132.8	116.2	95.4	76.8	66.4	58.1	45.6	35.3	29.0	27.0	29.0
72.5°	99.6	87.1	72.6	56.0	49.8	43.6	33.2	24.9	20.7	18.7	20.7
75°	72.6	62.2	51.9	39.4	35.3	31.1	22.8	16.6	14.5	12.4	14.5
77.5°	49.8	43.6	35.3	27.0	22.8	20.7	14.5	12.4	10.4	8.3	8.3
80°	33.2	29.0	22.8	18.7	16.6	14.5	10.4	8.3	6.2	6.2	6.2
82.5°	20.7	16.6	14.5	10.4	8.3	8.3	6.2	4.1	4.1	4.1	4.1
85°	12.4	10.4	8.3	6.2	4.1	4.1	2.1	2.1	2.1	2.1	2.1
87.5°	6.2	4.1	4.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	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°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1466.6	1462.5	1462.5	1464.5	1466.6	1468.7	1464.5	1462.5	1462.5	1468.7	1464.5
5°	1466.6	1464.5	1464.5	1464.5	1468.7	1470.8	1466.6	1464.5	1466.6	1472.8	1470.8
7.5°	1472.8	1468.7	1470.8	1470.8	1472.8	1477.0	1472.8	1470.8	1472.8	1479.1	1474.9
10°	1477.0	1472.8	1474.9	1472.8	1479.1	1481.1	1477.0	1474.9	1477.0	1485.3	1483.2
12.5°	1479.1	1477.0	1477.0	1474.9	1481.1	1483.2	1479.1	1477.0	1479.1	1485.3	1483.2
15°	1474.9	1472.8	1472.8	1472.8	1477.0	1481.1	1474.9	1472.8	1472.8	1479.1	1477.0
17.5°	1466.6	1462.5	1462.5	1462.5	1464.5	1466.6	1460.4	1458.3	1456.3	1462.5	1460.4
20°	1452.1	1448.0	1443.8	1443.8	1445.9	1445.9	1441.7	1435.5	1435.5	1437.6	1433.4
22.5°	1425.1	1423.1	1418.9	1416.8	1421.0	1418.9	1410.6	1404.4	1402.3	1404.4	1400.2
25°	1387.8	1383.6	1381.6	1379.5	1381.6	1379.5	1371.2	1362.9	1362.9	1362.9	1356.7
27.5°	1335.9	1331.8	1329.7	1329.7	1331.8	1327.6	1319.3	1311.0	1306.9	1306.9	1300.7
30°	1269.6	1269.6	1267.5	1265.4	1263.3	1263.3	1250.9	1242.6	1238.4	1240.5	1236.4
32.5°	1188.7	1186.6	1184.5	1178.3	1180.4	1178.3	1167.9	1161.7	1155.5	1151.3	1149.2
35°	1084.9	1084.9	1082.9	1082.9	1082.9	1080.8	1070.4	1064.2	1060.0	1058.0	1051.7
37.5°	970.8	968.8	966.7	966.7	966.7	966.7	960.5	954.2	954.2	952.2	948.0
40°	842.2	844.3	846.4	844.3	850.5	856.7	848.4	844.3	842.2	848.4	840.1
42.5°	717.8	715.7	726.1	728.1	728.1	738.5	740.6	742.6	740.6	744.7	744.7
45°	597.4	595.4	605.7	609.9	620.3	632.7	638.9	649.3	653.4	657.6	653.4
47.5°	483.3	491.6	499.9	510.3	518.6	539.4	551.8	562.2	566.3	572.5	572.5
50°	387.9	396.2	410.7	419.0	429.4	454.3	475.0	489.6	497.9	504.1	502.0
52.5°	298.7	313.2	331.9	340.2	354.7	383.8	406.6	423.2	433.6	439.8	441.9
55°	230.3	242.7	261.4	273.8	288.3	319.5	348.5	367.2	377.5	385.8	390.0
57.5°	170.1	184.6	205.4	215.7	232.3	267.6	292.5	315.3	327.8	338.1	340.2
60°	124.5	139.0	157.7	170.1	186.7	222.0	251.0	271.8	286.3	294.6	298.7
62.5°	89.2	103.7	122.4	134.8	149.4	180.5	209.5	230.3	244.8	255.2	261.4
65°	64.3	78.8	97.5	107.9	120.3	149.4	176.3	197.1	211.6	224.0	228.2
67.5°	47.7	58.1	74.7	85.1	97.5	120.3	143.1	161.8	176.3	186.7	190.8
70°	35.3	43.6	58.1	64.3	72.6	93.3	112.0	128.6	141.1	149.4	153.5
72.5°	24.9	31.1	41.5	47.7	53.9	70.5	85.1	97.5	105.8	114.1	118.2
75°	16.6	20.7	29.0	33.2	37.3	49.8	60.2	70.5	76.8	83.0	85.1
77.5°	10.4	14.5	20.7	22.8	27.0	33.2	41.5	47.7	51.9	56.0	60.2
80°	6.2	8.3	12.4	14.5	16.6	22.8	27.0	31.1	35.3	39.4	41.5
82.5°	4.1	6.2	8.3	8.3	10.4	12.4	16.6	20.7	22.8	24.9	27.0
85°	2.1	2.1	4.1	4.1	6.2	6.2	8.3	10.4	12.4	14.5	16.6
87.5°	2.1	2.1	2.1	2.1	4.1	4.1	6.2	6.2	6.2	8.3	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



TEST NUMBER: P252712

CATALOG NUMBER: LD6B40D010 EU6B30509730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1460.4	1466.6	1460.4	1464.5	1462.5	1462.5	1460.4	1462.5
5°	1466.6	1474.9	1466.6	1472.8	1468.7	1468.7	1468.7	1470.8
7.5°	1472.8	1481.1	1474.9	1481.1	1479.1	1477.0	1477.0	1481.1
10°	1479.1	1485.3	1481.1	1487.4	1485.3	1483.2	1483.2	1487.4
12.5°	1479.1	1487.4	1483.2	1489.4	1487.4	1485.3	1485.3	1487.4
15°	1472.8	1483.2	1477.0	1483.2	1481.1	1479.1	1479.1	1483.2
17.5°	1454.2	1462.5	1458.3	1462.5	1462.5	1460.4	1462.5	1464.5
20°	1429.3	1435.5	1431.4	1435.5	1435.5	1431.4	1433.4	1435.5
22.5°	1394.0	1400.2	1396.1	1400.2	1398.2	1396.1	1396.1	1394.0
25°	1350.5	1358.8	1352.5	1356.7	1352.5	1348.4	1348.4	1350.5
27.5°	1296.5	1302.7	1294.4	1298.6	1294.4	1290.3	1290.3	1288.2
30°	1226.0	1228.1	1221.8	1226.0	1221.8	1219.8	1215.6	1215.6
32.5°	1140.9	1143.0	1136.8	1136.8	1132.6	1132.6	1124.3	1130.6
35°	1041.4	1043.4	1041.4	1039.3	1033.1	1031.0	1028.9	1028.9
37.5°	937.6	937.6	931.4	929.3	925.2	921.0	923.1	916.9
40°	831.8	829.8	823.5	825.6	823.5	817.3	815.3	813.2
42.5°	732.3	732.3	726.1	728.1	724.0	721.9	715.7	717.8
45°	645.1	645.1	638.9	638.9	636.9	630.6	632.7	628.6
47.5°	566.3	566.3	564.2	564.2	558.0	555.9	555.9	555.9
50°	497.9	497.9	497.9	497.9	495.8	493.7	491.6	493.7
52.5°	439.8	443.9	441.9	441.9	439.8	437.7	435.6	435.6
55°	387.9	390.0	390.0	392.1	390.0	387.9	390.0	387.9
57.5°	342.3	346.4	346.4	346.4	346.4	346.4	344.4	342.3
60°	302.9	304.9	304.9	307.0	307.0	307.0	304.9	304.9
62.5°	263.5	267.6	269.7	269.7	271.8	269.7	269.7	269.7
65°	232.3	236.5	238.6	236.5	238.6	238.6	236.5	236.5
67.5°	195.0	199.1	199.1	199.1	199.1	201.2	199.1	199.1
70°	157.7	161.8	159.7	161.8	161.8	161.8	161.8	161.8
72.5°	120.3	122.4	124.5	124.5	126.5	124.5	124.5	124.5
75°	87.1	91.3	91.3	91.3	91.3	93.3	93.3	93.3
77.5°	62.2	64.3	64.3	66.4	66.4	66.4	66.4	68.5
80°	43.6	43.6	45.6	45.6	47.7	47.7	47.7	47.7
82.5°	29.0	31.1	31.1	31.1	31.1	31.1	31.1	31.1
85°	16.6	18.7	18.7	18.7	18.7	20.7	20.7	20.7
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	8.3	8.3
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)