

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: P252377

Luminaire Tested: **LD6B30D010 EU6B30508035 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252377  
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: LD6B30D010 EU6B30508035 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2738.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 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

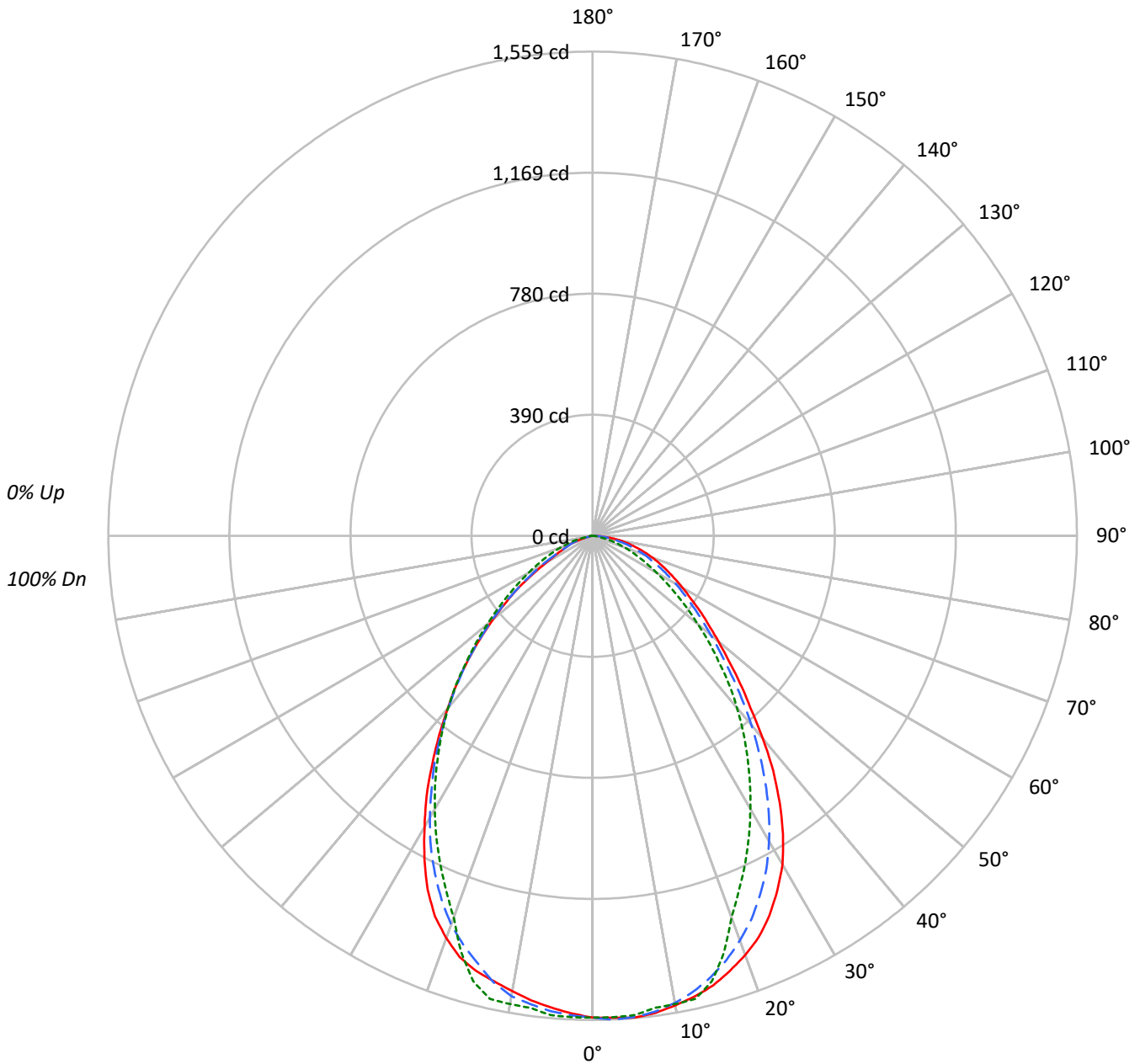
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	101214	101214	101214
5°	101994	101470	99885
10°	101709	101438	98635
15°	101246	100293	97977
20°	99733	90784	95678
25°	97029	83683	90500
30°	92133	76494	81503
35°	83602	69163	71727
40°	72578	61600	61771
45°	61900	52978	52425
50°	53580	44780	42334
55°	47897	37353	32770
60°	43646	31015	22077
65°	40739	25502	16487
70°	38818	20754	13829
75°	36575	14721	4562
80°	34828	7552	1503
85°	28670	4491	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	5.4
10°-20°	409.7	15.0
20°-30°	565.6	20.7
30°-40°	575.5	21.0
40°-50°	462.5	16.9
50°-60°	307.6	11.2
60°-70°	175.3	6.4
70°-80°	78.7	2.9
80°-90°	16.6	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°	1121.8	41.0
0°-40°	1697.4	62.0
0°-60°	2467.4	90.1
0°-90°	2738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1551	1551	1551	1551	1551	
5°	1557	1555	1549	1537	1525	148
15°	1499	1471	1485	1426	1451	422
25°	1348	1275	1162	1201	1257	618
35°	1050	969	868	884	901	652
45°	671	631	574	568	568	520
55°	421	393	328	292	288	378
65°	264	236	165	107	107	263
75°	145	121	58	24	18	155
85°	38	26	6	2	0	45
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°	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4
2.5°	1553.4	1561.4	1559.4	1557.4	1559.4	1557.4	1553.4	1553.4	1549.4	1549.4	1559.4
5°	1557.4	1561.4	1559.4	1557.4	1557.4	1559.4	1551.4	1551.4	1547.3	1545.3	1555.4
7.5°	1549.4	1555.4	1551.4	1551.4	1549.4	1551.4	1543.3	1543.3	1537.3	1535.3	1545.3
10°	1535.3	1543.3	1539.3	1539.3	1539.3	1535.3	1531.2	1529.2	1523.2	1521.2	1527.2
12.5°	1519.1	1525.2	1523.2	1519.1	1519.1	1519.1	1511.1	1509.1	1501.0	1497.0	1503.0
15°	1499.0	1503.0	1501.0	1499.0	1495.0	1495.0	1486.9	1482.9	1474.8	1466.8	1470.8
17.5°	1468.8	1474.8	1470.8	1468.8	1462.7	1462.7	1454.7	1450.6	1438.5	1430.5	1432.5
20°	1436.5	1438.5	1436.5	1432.5	1426.5	1424.4	1416.4	1408.3	1398.3	1388.2	1386.2
22.5°	1398.3	1400.3	1394.2	1390.2	1384.1	1382.1	1372.1	1366.0	1349.9	1337.8	1335.8
25°	1347.9	1349.9	1349.9	1339.8	1335.8	1331.8	1321.7	1311.6	1297.5	1281.4	1275.4
27.5°	1287.4	1293.5	1289.5	1279.4	1271.3	1269.3	1259.2	1251.2	1233.0	1218.9	1210.9
30°	1223.0	1221.0	1218.9	1212.9	1200.8	1198.8	1188.7	1178.6	1164.5	1146.4	1136.3
32.5°	1140.4	1140.4	1138.3	1132.3	1120.2	1116.2	1108.1	1096.0	1079.9	1065.8	1055.7
35°	1049.7	1051.7	1049.7	1037.6	1029.5	1025.5	1021.5	1007.4	993.3	977.2	969.1
37.5°	955.0	949.0	951.0	940.9	930.8	934.9	922.8	916.7	900.6	888.5	880.5
40°	852.2	856.3	848.2	844.2	838.1	832.1	832.1	822.0	814.0	799.9	795.8
42.5°	751.5	757.6	755.5	751.5	743.5	745.5	735.4	731.4	721.3	715.2	709.2
45°	670.9	670.9	670.9	666.9	664.9	660.8	654.8	648.8	642.7	634.7	630.6
47.5°	592.3	592.3	594.4	590.3	586.3	584.3	580.3	580.3	570.2	562.1	558.1
50°	527.9	527.9	527.9	523.8	519.8	519.8	515.8	511.8	505.7	499.7	495.6
52.5°	469.4	469.4	469.4	465.4	463.4	461.4	459.4	457.4	449.3	445.3	441.2
55°	421.1	419.1	419.1	417.1	413.0	413.0	411.0	407.0	400.9	394.9	392.9
57.5°	372.7	374.7	372.7	372.7	368.7	368.7	364.7	362.7	356.6	352.6	348.6
60°	334.5	334.5	334.5	332.4	328.4	330.4	326.4	324.4	318.3	312.3	308.3
62.5°	296.2	298.2	298.2	296.2	292.1	292.1	290.1	288.1	282.1	276.0	270.0
65°	263.9	263.9	263.9	261.9	259.9	259.9	257.9	255.9	249.8	241.8	235.7
67.5°	233.7	231.7	231.7	231.7	229.7	227.7	225.7	223.6	217.6	211.6	203.5
70°	203.5	203.5	203.5	201.5	197.4	199.5	197.4	195.4	189.4	183.3	177.3
72.5°	175.3	175.3	173.3	171.3	171.3	169.2	169.2	167.2	161.2	153.1	147.1
75°	145.1	145.1	145.1	145.1	141.0	143.0	139.0	137.0	133.0	126.9	120.9
77.5°	118.9	118.9	118.9	116.9	114.8	114.8	112.8	110.8	104.8	100.7	92.7
80°	92.7	92.7	92.7	92.7	90.7	88.6	86.6	84.6	80.6	74.5	68.5
82.5°	68.5	68.5	66.5	66.5	66.5	64.5	62.5	60.4	56.4	52.4	48.4
85°	38.3	40.3	40.3	36.3	38.3	36.3	36.3	32.2	32.2	28.2	26.2
87.5°	14.1	12.1	12.1	12.1	12.1	12.1	12.1	10.1	10.1	10.1	8.1
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4
2.5°	1551.4	1549.4	1557.4	1557.4	1545.3	1551.4	1553.4	1549.4	1549.4	1551.4	1545.3
5°	1547.3	1543.3	1551.4	1553.4	1541.3	1547.3	1549.4	1545.3	1547.3	1549.4	1541.3
7.5°	1533.2	1533.2	1539.3	1541.3	1529.2	1535.3	1535.3	1531.2	1533.2	1533.2	1527.2
10°	1519.1	1513.1	1519.1	1519.1	1509.1	1511.1	1515.1	1513.1	1521.2	1531.2	1531.2
12.5°	1492.9	1486.9	1497.0	1497.0	1490.9	1499.0	1509.1	1515.1	1523.2	1527.2	1515.1
15°	1460.7	1462.7	1480.9	1495.0	1488.9	1501.0	1511.1	1507.0	1497.0	1484.9	1466.8
17.5°	1418.4	1412.4	1428.5	1436.5	1428.5	1432.5	1440.6	1432.5	1416.4	1406.3	1382.1
20°	1370.0	1353.9	1353.9	1349.9	1335.8	1335.8	1333.8	1319.7	1313.6	1307.6	1297.5
22.5°	1315.6	1297.5	1291.5	1279.4	1267.3	1265.3	1259.2	1245.1	1237.1	1233.0	1221.0
25°	1253.2	1237.1	1227.0	1214.9	1196.8	1192.7	1186.7	1172.6	1168.6	1162.5	1152.4
27.5°	1188.7	1168.6	1154.5	1142.4	1126.3	1124.2	1112.2	1102.1	1094.0	1090.0	1081.9
30°	1114.2	1092.0	1081.9	1065.8	1053.7	1049.7	1039.6	1025.5	1019.5	1015.4	1009.4
32.5°	1031.6	1013.4	1003.4	989.3	973.1	975.1	963.1	951.0	946.9	942.9	936.9
35°	951.0	932.8	920.8	908.7	898.6	894.6	886.5	876.4	870.4	868.4	864.3
37.5°	862.3	848.2	838.1	826.1	818.0	814.0	809.9	799.9	795.8	795.8	787.8
40°	775.7	763.6	755.5	749.5	739.4	737.4	733.4	727.3	725.3	723.3	717.3
42.5°	697.1	681.0	674.9	670.9	664.9	660.8	658.8	654.8	652.8	650.8	644.7
45°	622.6	608.5	602.4	598.4	592.3	590.3	588.3	582.3	578.2	574.2	572.2
47.5°	550.0	540.0	537.9	527.9	523.8	519.8	515.8	511.8	509.7	507.7	499.7
50°	487.6	481.5	471.5	465.4	461.4	459.4	451.3	445.3	443.2	441.2	435.2
52.5°	431.2	423.1	417.1	407.0	405.0	400.9	396.9	388.9	384.8	382.8	376.8
55°	380.8	374.7	366.7	358.6	352.6	350.6	344.5	336.5	332.4	328.4	324.4
57.5°	338.5	328.4	320.3	312.3	308.3	302.2	296.2	292.1	286.1	280.1	274.0
60°	298.2	290.1	280.1	272.0	268.0	263.9	255.9	249.8	243.8	237.7	231.7
62.5°	259.9	251.8	241.8	233.7	229.7	225.7	217.6	211.6	205.5	199.5	191.4
65°	225.7	217.6	209.5	201.5	197.4	193.4	185.4	177.3	171.3	165.2	157.2
67.5°	197.4	187.4	179.3	171.3	167.2	163.2	155.1	149.1	141.0	135.0	126.9
70°	167.2	159.2	153.1	145.1	141.0	137.0	128.9	120.9	114.8	108.8	100.7
72.5°	141.0	131.0	124.9	116.9	112.8	110.8	102.8	96.7	90.7	82.6	76.6
75°	112.8	104.8	96.7	90.7	86.6	84.6	76.6	70.5	64.5	58.4	52.4
77.5°	86.6	80.6	72.5	66.5	62.5	60.4	52.4	46.3	40.3	36.3	30.2
80°	64.5	56.4	52.4	46.3	44.3	40.3	36.3	30.2	26.2	20.1	16.1
82.5°	44.3	38.3	34.3	30.2	28.2	26.2	22.2	18.1	14.1	12.1	10.1
85°	24.2	20.1	18.1	16.1	14.1	14.1	12.1	10.1	8.1	6.0	4.0
87.5°	8.1	6.0	6.0	6.0	6.0	4.0	4.0	4.0	2.0	2.0	2.0
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°	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4
2.5°	1549.4	1549.4	1549.4	1547.3	1547.3	1547.3	1545.3	1553.4	1545.3	1543.3	1549.4
5°	1547.3	1543.3	1543.3	1543.3	1543.3	1541.3	1539.3	1543.3	1537.3	1535.3	1535.3
7.5°	1535.3	1533.2	1533.2	1531.2	1529.2	1527.2	1525.2	1527.2	1521.2	1519.1	1519.1
10°	1537.3	1533.2	1533.2	1527.2	1523.2	1517.1	1511.1	1513.1	1505.0	1499.0	1499.0
12.5°	1513.1	1503.0	1497.0	1490.9	1486.9	1484.9	1476.8	1480.9	1472.8	1470.8	1470.8
15°	1458.7	1446.6	1436.5	1432.5	1432.5	1428.5	1422.4	1430.5	1426.5	1428.5	1438.5
17.5°	1374.1	1368.0	1362.0	1360.0	1362.0	1366.0	1370.0	1382.1	1382.1	1388.2	1398.3
20°	1299.5	1295.5	1299.5	1299.5	1301.5	1309.6	1317.7	1327.7	1331.8	1337.8	1351.9
22.5°	1227.0	1227.0	1231.0	1237.1	1235.1	1249.2	1251.2	1269.3	1269.3	1281.4	1293.5
25°	1156.5	1156.5	1160.5	1162.5	1166.6	1174.6	1182.7	1196.8	1200.8	1212.9	1223.0
27.5°	1088.0	1086.0	1086.0	1088.0	1092.0	1102.1	1106.1	1122.2	1128.3	1136.3	1146.4
30°	1011.4	1009.4	1013.4	1017.5	1015.4	1025.5	1031.6	1043.7	1047.7	1055.7	1063.8
32.5°	938.9	938.9	938.9	942.9	942.9	951.0	951.0	965.1	965.1	971.1	979.2
35°	864.3	864.3	866.4	868.4	870.4	872.4	874.4	882.5	884.5	886.5	890.5
37.5°	793.8	791.8	793.8	793.8	789.8	797.8	797.8	805.9	799.9	805.9	807.9
40°	721.3	721.3	719.3	719.3	719.3	723.3	719.3	725.3	721.3	725.3	723.3
42.5°	646.7	646.7	642.7	646.7	644.7	644.7	644.7	648.8	642.7	646.7	648.8
45°	572.2	570.2	570.2	568.2	568.2	568.2	570.2	570.2	568.2	572.2	572.2
47.5°	499.7	497.6	497.6	497.6	497.6	499.7	493.6	497.6	493.6	493.6	493.6
50°	437.2	435.2	433.2	431.2	429.1	429.1	427.1	427.1	423.1	421.1	419.1
52.5°	376.8	374.7	370.7	370.7	368.7	366.7	360.6	360.6	354.6	352.6	352.6
55°	322.4	316.3	314.3	310.3	310.3	306.2	302.2	298.2	292.1	288.1	288.1
57.5°	272.0	265.9	261.9	259.9	257.9	253.9	245.8	243.8	235.7	233.7	231.7
60°	227.7	221.6	215.6	211.6	209.5	203.5	195.4	191.4	187.4	181.3	175.3
62.5°	185.4	179.3	171.3	169.2	165.2	159.2	153.1	147.1	143.0	137.0	133.0
65°	149.1	143.0	137.0	133.0	128.9	122.9	116.9	110.8	106.8	104.8	102.8
67.5°	120.9	112.8	106.8	104.8	100.7	96.7	90.7	88.6	84.6	84.6	84.6
70°	94.7	88.6	82.6	80.6	78.6	74.5	70.5	70.5	70.5	70.5	70.5
72.5°	70.5	66.5	60.4	58.4	56.4	54.4	50.4	52.4	50.4	50.4	50.4
75°	44.3	40.3	36.3	34.3	32.2	30.2	28.2	26.2	24.2	22.2	22.2
77.5°	24.2	20.1	18.1	16.1	16.1	14.1	12.1	12.1	10.1	10.1	10.1
80°	14.1	12.1	10.1	8.1	8.1	6.0	6.0	6.0	6.0	4.0	4.0
82.5°	8.1	6.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
85°	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P252377

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4	1551.4
2.5°	1539.3	1545.3	1539.3	1545.3	1545.3	1545.3	1545.3	1539.3
5°	1529.2	1533.2	1527.2	1531.2	1533.2	1531.2	1531.2	1525.2
7.5°	1511.1	1515.1	1509.1	1515.1	1517.1	1515.1	1513.1	1509.1
10°	1492.9	1495.0	1488.9	1492.9	1497.0	1497.0	1495.0	1488.9
12.5°	1464.7	1470.8	1464.7	1468.8	1472.8	1474.8	1474.8	1468.8
15°	1432.5	1442.6	1438.5	1444.6	1450.6	1452.6	1452.6	1450.6
17.5°	1400.3	1410.3	1404.3	1414.4	1420.4	1424.4	1426.5	1422.4
20°	1353.9	1366.0	1362.0	1370.0	1378.1	1384.1	1384.1	1378.1
22.5°	1293.5	1309.6	1307.6	1313.6	1323.7	1325.7	1329.7	1325.7
25°	1227.0	1239.1	1237.1	1243.1	1255.2	1255.2	1257.2	1257.2
27.5°	1150.4	1162.5	1160.5	1164.5	1172.6	1174.6	1176.6	1172.6
30°	1067.8	1073.9	1073.9	1079.9	1086.0	1088.0	1088.0	1081.9
32.5°	977.2	985.2	989.3	987.2	993.3	997.3	995.3	995.3
35°	894.6	896.6	898.6	900.6	902.6	906.6	902.6	900.6
37.5°	805.9	812.0	807.9	812.0	816.0	814.0	812.0	812.0
40°	725.3	727.3	723.3	727.3	729.3	729.3	729.3	725.3
42.5°	644.7	648.8	644.7	648.8	648.8	648.8	648.8	646.7
45°	564.1	568.2	568.2	570.2	570.2	568.2	568.2	568.2
47.5°	489.6	493.6	489.6	493.6	495.6	491.6	491.6	491.6
50°	419.1	417.1	417.1	419.1	419.1	419.1	419.1	417.1
52.5°	346.5	348.6	348.6	348.6	350.6	348.6	350.6	350.6
55°	284.1	284.1	284.1	286.1	284.1	284.1	286.1	288.1
57.5°	227.7	225.7	223.6	223.6	225.7	223.6	223.6	223.6
60°	175.3	173.3	171.3	171.3	171.3	171.3	171.3	169.2
62.5°	131.0	131.0	131.0	133.0	133.0	133.0	133.0	135.0
65°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	106.8
67.5°	84.6	84.6	84.6	86.6	86.6	86.6	86.6	86.6
70°	70.5	70.5	72.5	70.5	72.5	72.5	72.5	72.5
72.5°	48.4	48.4	48.4	48.4	48.4	46.3	48.4	46.3
75°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	18.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	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)