

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: P252711

Luminaire Tested: **LD6B40D010 EU6B30509727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252711
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 EU6B30509727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2785.0 lumens
Efficiency: N/A
Efficacy: 64.7 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

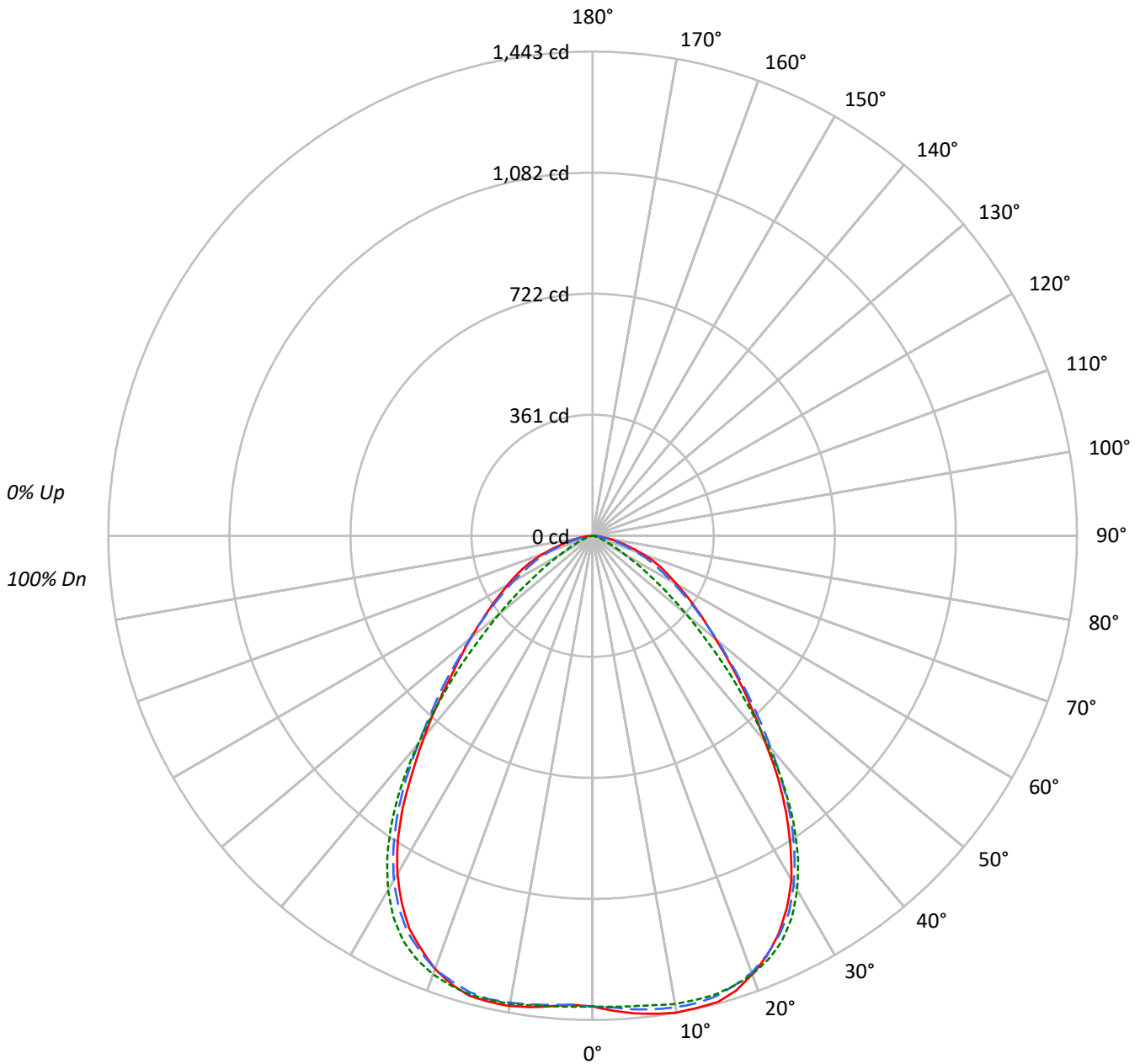
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	91539	91539	91539
5°	93578	92151	92151
10°	95581	93872	94270
15°	97186	95579	95842
20°	96588	96588	95352
25°	94293	96006	93005
30°	89255	91801	87613
35°	79979	83140	78402
40°	67945	68788	66259
45°	57499	52554	55478
50°	48546	37066	47937
55°	42665	23932	42210
60°	37813	14249	38061
65°	34919	8583	34919
70°	30291	4921	29528
75°	24022	3000	22510
80°	17884	2254	17132
85°	16318	1497	14821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	4.9
10°-20°	399.8	14.4
20°-30°	601.3	21.6
30°-40°	632.2	22.7
40°-50°	472.3	17.0
50°-60°	294.0	10.6
60°-70°	167.2	6.0
70°-80°	68.9	2.5
80°-90°	14.2	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°	1136.2	40.8
0°-40°	1768.4	63.5
0°-60°	2534.7	91.0
0°-90°	2785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2785.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1403	1403	1403	1403	1403	
5°	1429	1417	1407	1403	1407	137
15°	1439	1421	1415	1409	1419	405
25°	1310	1314	1334	1304	1292	600
35°	1004	1030	1044	1014	984	623
45°	623	637	570	625	601	483
55°	375	367	210	361	371	337
65°	226	202	56	202	226	223
75°	95	75	12	73	89	104
85°	22	14	2	12	20	24
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°	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1417.0	1415.1	1417.0	1413.1	1411.1	1411.1	1413.1	1409.1	1407.1	1409.1	1407.1
5°	1428.9	1425.0	1427.0	1425.0	1421.0	1421.0	1423.0	1417.0	1417.0	1419.0	1417.0
7.5°	1436.9	1436.9	1436.9	1432.9	1430.9	1428.9	1432.9	1427.0	1425.0	1425.0	1423.0
10°	1442.8	1440.9	1442.8	1438.9	1434.9	1432.9	1436.9	1432.9	1428.9	1432.9	1427.0
12.5°	1440.9	1440.9	1440.9	1438.9	1434.9	1432.9	1436.9	1430.9	1428.9	1430.9	1427.0
15°	1438.9	1432.9	1434.9	1432.9	1427.0	1427.0	1428.9	1423.0	1419.0	1425.0	1421.0
17.5°	1421.0	1417.0	1419.0	1415.1	1411.1	1409.1	1411.1	1409.1	1405.1	1409.1	1405.1
20°	1391.2	1391.2	1393.2	1389.3	1385.3	1383.3	1387.3	1383.3	1379.3	1385.3	1385.3
22.5°	1355.5	1355.5	1355.5	1353.5	1351.5	1351.5	1351.5	1349.6	1347.6	1351.5	1353.5
25°	1309.9	1307.9	1309.9	1311.8	1309.9	1307.9	1309.9	1309.9	1305.9	1313.8	1313.8
27.5°	1252.3	1252.3	1256.3	1254.3	1254.3	1252.3	1256.3	1256.3	1254.3	1260.2	1266.2
30°	1184.8	1180.9	1184.8	1184.8	1186.8	1186.8	1188.8	1188.8	1188.8	1194.8	1198.7
32.5°	1097.5	1099.5	1105.4	1103.5	1101.5	1107.4	1107.4	1111.4	1113.4	1117.4	1119.3
35°	1004.2	1006.2	1006.2	1008.2	1012.2	1008.2	1018.1	1016.1	1018.1	1026.1	1030.0
37.5°	905.0	899.0	909.0	905.0	907.0	907.0	911.0	912.9	918.9	928.8	928.8
40°	797.8	799.8	803.8	805.8	807.7	807.7	807.7	813.7	815.7	827.6	825.6
42.5°	704.5	704.5	708.5	710.5	710.5	710.5	710.5	716.5	720.4	724.4	728.4
45°	623.2	617.2	621.2	621.2	625.2	623.2	627.1	631.1	633.1	639.1	637.1
47.5°	545.8	543.8	545.8	547.8	545.8	547.8	549.7	551.7	553.7	553.7	553.7
50°	478.3	478.3	480.3	482.3	482.3	482.3	482.3	484.3	484.3	488.2	484.3
52.5°	422.7	424.7	424.7	422.7	424.7	424.7	426.7	426.7	424.7	424.7	418.8
55°	375.1	373.1	375.1	373.1	375.1	375.1	373.1	373.1	371.1	369.1	367.2
57.5°	329.5	329.5	329.5	329.5	327.5	329.5	327.5	325.5	325.5	321.5	315.6
60°	289.8	289.8	289.8	289.8	289.8	287.8	289.8	287.8	283.8	279.8	271.9
62.5°	256.0	254.0	256.0	254.0	254.0	252.0	252.0	250.1	246.1	242.1	234.2
65°	226.2	228.2	226.2	226.2	224.3	222.3	222.3	220.3	214.3	210.4	202.4
67.5°	194.5	192.5	192.5	192.5	190.5	190.5	190.5	186.6	182.6	176.6	168.7
70°	158.8	158.8	158.8	156.8	156.8	154.8	154.8	152.8	148.8	144.9	135.0
72.5°	125.0	125.0	125.0	121.1	123.0	121.1	121.1	117.1	115.1	109.2	103.2
75°	95.3	95.3	93.3	93.3	91.3	89.3	89.3	87.3	85.3	81.4	75.4
77.5°	69.5	69.5	69.5	67.5	65.5	63.5	63.5	61.5	59.5	57.6	53.6
80°	47.6	47.6	47.6	47.6	45.6	43.7	43.7	41.7	41.7	39.7	35.7
82.5°	31.8	31.8	31.8	31.8	29.8	29.8	29.8	27.8	25.8	25.8	21.8
85°	21.8	21.8	19.8	19.8	19.8	19.8	17.9	17.9	15.9	13.9	13.9
87.5°	11.9	11.9	11.9	11.9	9.9	9.9	9.9	9.9	7.9	7.9	6.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1413.1	1413.1	1411.1	1405.1	1407.1	1405.1	1407.1	1405.1	1399.2	1405.1	1399.2
5°	1421.0	1423.0	1419.0	1411.1	1413.1	1411.1	1411.1	1409.1	1403.1	1407.1	1403.1
7.5°	1428.9	1427.0	1425.0	1417.0	1419.0	1417.0	1417.0	1413.1	1407.1	1411.1	1405.1
10°	1432.9	1432.9	1428.9	1421.0	1421.0	1419.0	1421.0	1419.0	1411.1	1417.0	1413.1
12.5°	1432.9	1430.9	1430.9	1421.0	1423.0	1421.0	1423.0	1419.0	1413.1	1417.0	1415.1
15°	1427.0	1427.0	1425.0	1415.1	1417.0	1417.0	1419.0	1415.1	1409.1	1415.1	1411.1
17.5°	1415.1	1415.1	1413.1	1405.1	1409.1	1409.1	1411.1	1407.1	1401.2	1405.1	1405.1
20°	1391.2	1393.2	1393.2	1387.3	1391.2	1391.2	1393.2	1391.2	1389.3	1391.2	1387.3
22.5°	1363.4	1367.4	1367.4	1361.5	1365.4	1365.4	1371.4	1369.4	1365.4	1367.4	1365.4
25°	1321.8	1325.7	1329.7	1325.7	1329.7	1329.7	1335.7	1333.7	1329.7	1333.7	1327.7
27.5°	1274.1	1276.1	1280.1	1276.1	1282.1	1280.1	1286.0	1284.1	1278.1	1284.1	1282.1
30°	1206.7	1214.6	1220.6	1214.6	1220.6	1220.6	1224.5	1222.5	1220.6	1218.6	1218.6
32.5°	1131.2	1139.2	1139.2	1137.2	1141.2	1141.2	1143.2	1139.2	1137.2	1139.2	1141.2
35°	1038.0	1041.9	1045.9	1043.9	1045.9	1047.9	1045.9	1047.9	1041.9	1043.9	1043.9
37.5°	936.8	940.7	940.7	934.8	938.7	938.7	934.8	934.8	930.8	934.8	926.8
40°	829.6	825.6	827.6	823.6	819.7	819.7	817.7	809.7	805.8	807.7	809.7
42.5°	724.4	724.4	718.4	708.5	698.6	698.6	692.6	688.7	680.7	684.7	682.7
45°	635.1	625.2	617.2	601.3	595.4	591.4	581.5	571.6	567.6	569.6	567.6
47.5°	549.7	541.8	522.0	500.1	494.2	488.2	476.3	464.4	460.4	456.5	456.5
50°	478.3	464.4	442.6	418.8	408.8	398.9	383.0	371.1	363.2	365.2	365.2
52.5°	412.8	396.9	371.1	341.4	329.5	317.5	303.7	289.8	283.8	281.8	281.8
55°	355.3	337.4	311.6	277.9	267.9	254.0	236.2	220.3	212.4	210.4	214.3
57.5°	303.7	287.8	258.0	224.3	212.4	198.5	180.6	166.7	156.8	154.8	156.8
60°	262.0	240.1	214.3	182.6	166.7	154.8	135.0	123.0	113.1	109.2	111.1
62.5°	220.3	200.4	174.6	142.9	131.0	119.1	101.2	87.3	79.4	77.4	79.4
65°	188.5	168.7	144.9	117.1	105.2	93.3	77.4	63.5	57.6	55.6	57.6
67.5°	156.8	138.9	119.1	93.3	83.4	73.4	57.6	47.6	39.7	37.7	39.7
70°	127.0	111.1	91.3	73.4	63.5	55.6	43.7	33.7	27.8	25.8	27.8
72.5°	95.3	83.4	69.5	53.6	47.6	41.7	31.8	23.8	19.8	17.9	19.8
75°	69.5	59.5	49.6	37.7	33.7	29.8	21.8	15.9	13.9	11.9	13.9
77.5°	47.6	41.7	33.7	25.8	21.8	19.8	13.9	11.9	9.9	7.9	7.9
80°	31.8	27.8	21.8	17.9	15.9	13.9	9.9	7.9	6.0	6.0	6.0
82.5°	19.8	15.9	13.9	9.9	7.9	7.9	6.0	4.0	4.0	4.0	4.0
85°	11.9	9.9	7.9	6.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
87.5°	6.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	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°	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1403.1	1399.2	1399.2	1401.2	1403.1	1405.1	1401.2	1399.2	1399.2	1405.1	1401.2
5°	1403.1	1401.2	1401.2	1401.2	1405.1	1407.1	1403.1	1401.2	1403.1	1409.1	1407.1
7.5°	1409.1	1405.1	1407.1	1407.1	1409.1	1413.1	1409.1	1407.1	1409.1	1415.1	1411.1
10°	1413.1	1409.1	1411.1	1409.1	1415.1	1417.0	1413.1	1411.1	1413.1	1421.0	1419.0
12.5°	1415.1	1413.1	1413.1	1411.1	1417.0	1419.0	1415.1	1413.1	1415.1	1421.0	1419.0
15°	1411.1	1409.1	1409.1	1409.1	1413.1	1417.0	1411.1	1409.1	1409.1	1415.1	1413.1
17.5°	1403.1	1399.2	1399.2	1399.2	1401.2	1403.1	1397.2	1395.2	1393.2	1399.2	1397.2
20°	1389.3	1385.3	1381.3	1381.3	1383.3	1383.3	1379.3	1373.4	1373.4	1375.4	1371.4
22.5°	1363.4	1361.5	1357.5	1355.5	1359.5	1357.5	1349.6	1343.6	1341.6	1343.6	1339.6
25°	1327.7	1323.8	1321.8	1319.8	1321.8	1319.8	1311.8	1303.9	1303.9	1303.9	1298.0
27.5°	1278.1	1274.1	1272.2	1272.2	1274.1	1270.2	1262.2	1254.3	1250.3	1250.3	1244.4
30°	1214.6	1214.6	1212.6	1210.6	1208.6	1208.6	1196.7	1188.8	1184.8	1186.8	1182.8
32.5°	1137.2	1135.2	1133.2	1127.3	1129.3	1127.3	1117.4	1111.4	1105.4	1101.5	1099.5
35°	1038.0	1038.0	1036.0	1036.0	1036.0	1034.0	1024.1	1018.1	1014.2	1012.2	1006.2
37.5°	928.8	926.8	924.8	924.8	924.8	924.8	918.9	912.9	912.9	911.0	907.0
40°	805.8	807.7	809.7	807.7	813.7	819.7	811.7	807.7	805.8	811.7	803.8
42.5°	686.7	684.7	694.6	696.6	696.6	706.5	708.5	710.5	708.5	712.5	712.5
45°	571.6	569.6	579.5	583.5	593.4	605.3	611.3	621.2	625.2	629.1	625.2
47.5°	462.4	470.4	478.3	488.2	496.2	516.0	527.9	537.8	541.8	547.8	547.8
50°	371.1	379.1	393.0	400.9	410.8	434.6	454.5	468.4	476.3	482.3	480.3
52.5°	285.8	299.7	317.5	325.5	339.4	367.2	389.0	404.9	414.8	420.7	422.7
55°	220.3	232.2	250.1	262.0	275.9	305.6	333.4	351.3	361.2	369.1	373.1
57.5°	162.7	176.6	196.5	206.4	222.3	256.0	279.8	301.7	313.6	323.5	325.5
60°	119.1	133.0	150.8	162.7	178.6	212.4	240.1	260.0	273.9	281.8	285.8
62.5°	85.3	99.2	117.1	129.0	142.9	172.7	200.4	220.3	234.2	244.1	250.1
65°	61.5	75.4	93.3	103.2	115.1	142.9	168.7	188.5	202.4	214.3	218.3
67.5°	45.6	55.6	71.4	81.4	93.3	115.1	136.9	154.8	168.7	178.6	182.6
70°	33.7	41.7	55.6	61.5	69.5	89.3	107.2	123.0	135.0	142.9	146.9
72.5°	23.8	29.8	39.7	45.6	51.6	67.5	81.4	93.3	101.2	109.2	113.1
75°	15.9	19.8	27.8	31.8	35.7	47.6	57.6	67.5	73.4	79.4	81.4
77.5°	9.9	13.9	19.8	21.8	25.8	31.8	39.7	45.6	49.6	53.6	57.6
80°	6.0	7.9	11.9	13.9	15.9	21.8	25.8	29.8	33.7	37.7	39.7
82.5°	4.0	6.0	7.9	7.9	9.9	11.9	15.9	19.8	21.8	23.8	25.8
85°	2.0	2.0	4.0	4.0	6.0	6.0	7.9	9.9	11.9	13.9	15.9
87.5°	2.0	2.0	2.0	2.0	4.0	4.0	6.0	6.0	6.0	7.9	7.9
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: P252711

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1397.2	1403.1	1397.2	1401.2	1399.2	1399.2	1397.2	1399.2
5°	1403.1	1411.1	1403.1	1409.1	1405.1	1405.1	1405.1	1407.1
7.5°	1409.1	1417.0	1411.1	1417.0	1415.1	1413.1	1413.1	1417.0
10°	1415.1	1421.0	1417.0	1423.0	1421.0	1419.0	1419.0	1423.0
12.5°	1415.1	1423.0	1419.0	1425.0	1423.0	1421.0	1421.0	1423.0
15°	1409.1	1419.0	1413.1	1419.0	1417.0	1415.1	1415.1	1419.0
17.5°	1391.2	1399.2	1395.2	1399.2	1399.2	1397.2	1399.2	1401.2
20°	1367.4	1373.4	1369.4	1373.4	1373.4	1369.4	1371.4	1373.4
22.5°	1333.7	1339.6	1335.7	1339.6	1337.6	1335.7	1335.7	1333.7
25°	1292.0	1299.9	1294.0	1298.0	1294.0	1290.0	1290.0	1292.0
27.5°	1240.4	1246.4	1238.4	1242.4	1238.4	1234.4	1234.4	1232.5
30°	1172.9	1174.9	1169.0	1172.9	1169.0	1167.0	1163.0	1163.0
32.5°	1091.6	1093.5	1087.6	1087.6	1083.6	1083.6	1075.7	1081.6
35°	996.3	998.3	996.3	994.3	988.4	986.4	984.4	984.4
37.5°	897.1	897.1	891.1	889.1	885.2	881.2	883.2	877.2
40°	795.8	793.9	787.9	789.9	787.9	781.9	780.0	778.0
42.5°	700.6	700.6	694.6	696.6	692.6	690.7	684.7	686.7
45°	617.2	617.2	611.3	611.3	609.3	603.3	605.3	601.3
47.5°	541.8	541.8	539.8	539.8	533.9	531.9	531.9	531.9
50°	476.3	476.3	476.3	476.3	474.3	472.3	470.4	472.3
52.5°	420.7	424.7	422.7	422.7	420.7	418.8	416.8	416.8
55°	371.1	373.1	373.1	375.1	373.1	371.1	373.1	371.1
57.5°	327.5	331.4	331.4	331.4	331.4	331.4	329.5	327.5
60°	289.8	291.7	291.7	293.7	293.7	293.7	291.7	291.7
62.5°	252.0	256.0	258.0	258.0	260.0	258.0	258.0	258.0
65°	222.3	226.2	228.2	226.2	228.2	228.2	226.2	226.2
67.5°	186.6	190.5	190.5	190.5	190.5	192.5	190.5	190.5
70°	150.8	154.8	152.8	154.8	154.8	154.8	154.8	154.8
72.5°	115.1	117.1	119.1	119.1	121.1	119.1	119.1	119.1
75°	83.4	87.3	87.3	87.3	87.3	89.3	89.3	89.3
77.5°	59.5	61.5	61.5	63.5	63.5	63.5	63.5	65.5
80°	41.7	41.7	43.7	43.7	45.6	45.6	45.6	45.6
82.5°	27.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
85°	15.9	17.9	17.9	17.9	17.9	19.8	19.8	19.8
87.5°	9.9	9.9	9.9	9.9	9.9	9.9	7.9	7.9
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)