

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: P252503

Luminaire Tested: **LD6B40D010 EU6B30509727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252503
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 EU6B30509727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 2533.0 lumens
Efficiency: N/A
Efficacy: 58.9 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

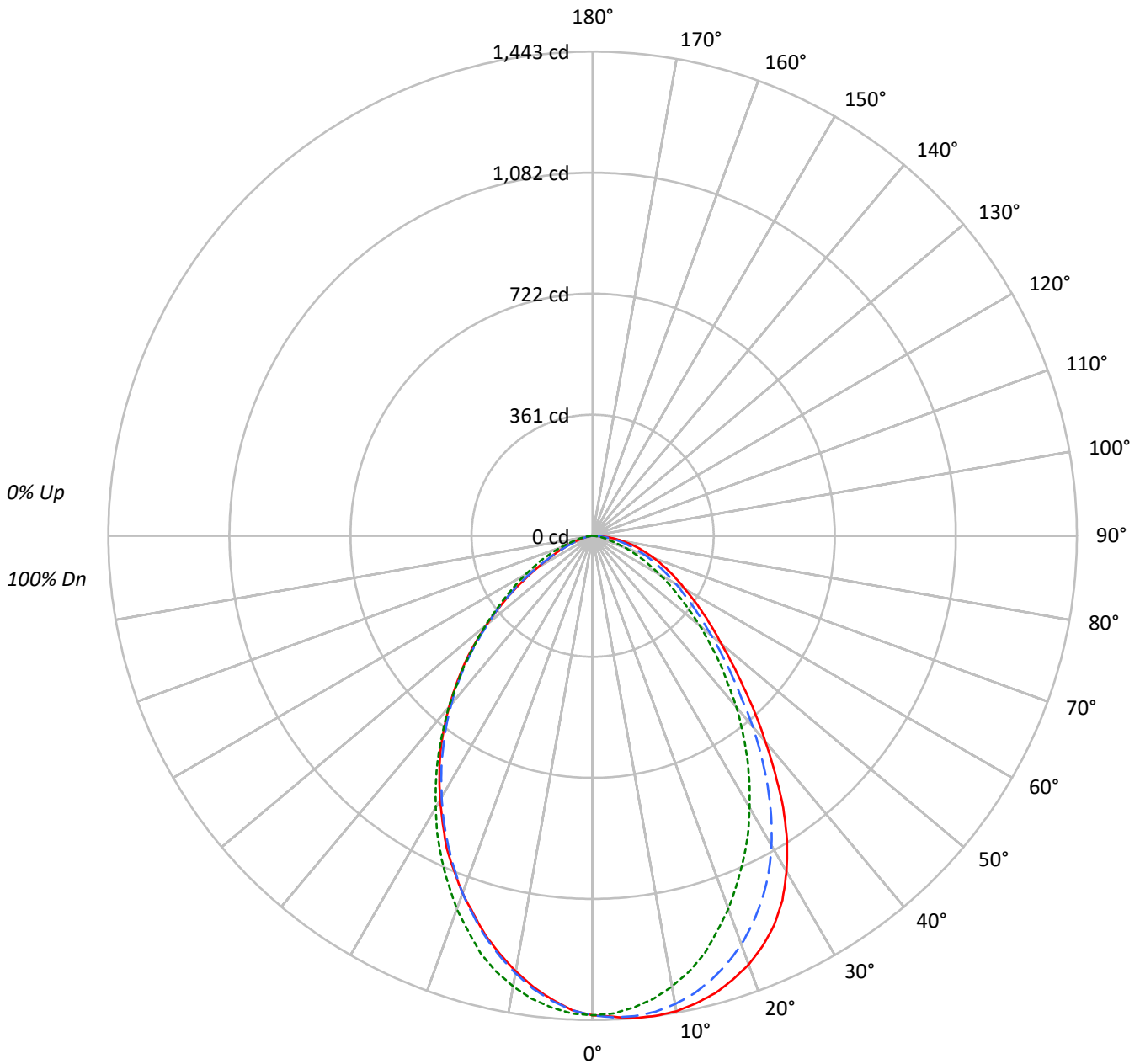
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93229	93229	93229
5°	94495	92413	90854
10°	95323	90328	87300
15°	95309	87001	83246
20°	94387	82126	78682
25°	92148	76578	74008
30°	87018	70422	68478
35°	78880	63859	63070
40°	68115	56797	56627
45°	58412	49444	49804
50°	50758	42304	41695
55°	45600	35670	33406
60°	41441	30037	24596
65°	38917	24823	18077
70°	37101	19304	13257
75°	35517	14015	8999
80°	33551	9693	5974
85°	29718	5914	2994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	5.3
10°-20°	366.1	14.5
20°-30°	508.2	20.1
30°-40°	526.4	20.8
40°-50°	432.6	17.1
50°-60°	297.3	11.7
60°-70°	170.9	6.7
70°-80°	78.6	3.1
80°-90°	19.1	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°	1008.0	39.8
0°-40°	1534.4	60.6
0°-60°	2264.4	89.4
0°-90°	2533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1429	1429	1429	1429	1429	
5°	1443	1437	1411	1391	1387	138
15°	1411	1369	1288	1236	1232	397
25°	1280	1195	1064	1018	1028	586
35°	990	909	802	778	792	614
45°	633	586	536	530	540	493
55°	401	363	314	296	294	361
65°	252	220	161	113	117	251
75°	141	111	56	36	36	149
85°	40	28	8	4	4	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°	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1434.9	1446.8	1438.9	1436.9	1440.9	1440.9	1440.9	1434.9	1438.9	1433.0	1436.9
5°	1442.9	1452.8	1444.9	1440.9	1444.9	1446.8	1440.9	1436.9	1442.9	1434.9	1436.9
7.5°	1442.9	1452.8	1444.9	1442.9	1444.9	1444.9	1442.9	1434.9	1438.9	1431.0	1431.0
10°	1438.9	1446.8	1438.9	1434.9	1436.9	1434.9	1434.9	1425.0	1427.0	1417.1	1417.1
12.5°	1427.0	1436.9	1427.0	1423.0	1423.0	1423.0	1417.1	1409.1	1411.1	1399.2	1397.2
15°	1411.1	1419.1	1409.1	1405.2	1405.2	1403.2	1399.2	1387.3	1387.3	1375.4	1369.4
17.5°	1387.3	1395.2	1387.3	1381.4	1379.4	1375.4	1371.4	1359.5	1355.6	1341.7	1335.7
20°	1359.5	1365.5	1357.5	1351.6	1347.6	1343.6	1335.7	1323.8	1319.8	1305.9	1296.0
22.5°	1323.8	1331.7	1319.8	1313.9	1309.9	1304.0	1296.0	1284.1	1278.1	1260.3	1248.4
25°	1280.1	1284.1	1274.2	1268.2	1260.3	1256.3	1250.4	1234.5	1228.5	1208.7	1194.8
27.5°	1224.6	1228.5	1216.6	1212.7	1202.7	1198.8	1190.8	1176.9	1169.0	1149.1	1135.3
30°	1155.1	1159.1	1151.1	1145.2	1137.2	1129.3	1123.3	1109.4	1097.5	1077.7	1065.8
32.5°	1077.7	1083.6	1075.7	1067.8	1053.9	1055.9	1045.9	1032.0	1022.1	1004.3	990.4
35°	990.4	994.3	984.4	982.4	974.5	966.6	956.6	946.7	940.7	920.9	909.0
37.5°	893.1	903.0	893.1	885.2	881.2	875.3	869.3	855.4	851.4	839.5	823.7
40°	799.8	805.8	799.8	791.9	785.9	785.9	778.0	770.1	760.1	748.2	742.3
42.5°	716.5	712.5	710.5	706.6	698.6	696.6	694.6	684.7	678.8	666.9	656.9
45°	633.1	635.1	631.1	629.2	623.2	619.2	615.3	607.3	605.3	593.4	585.5
47.5°	563.7	561.7	557.7	557.7	553.7	549.8	545.8	539.8	537.9	527.9	520.0
50°	500.1	502.1	500.1	498.2	492.2	490.2	486.3	482.3	478.3	468.4	460.5
52.5°	448.5	446.6	444.6	444.6	438.6	436.6	432.7	428.7	424.7	414.8	408.8
55°	400.9	400.9	398.9	396.9	391.0	389.0	387.0	383.0	377.1	369.2	363.2
57.5°	357.2	357.2	355.3	353.3	349.3	349.3	345.3	341.4	337.4	329.5	321.5
60°	317.6	319.5	317.6	315.6	311.6	311.6	309.6	303.7	301.7	291.8	285.8
62.5°	283.8	283.8	283.8	281.8	279.8	275.9	275.9	269.9	266.0	260.0	252.1
65°	252.1	252.1	252.1	250.1	246.1	244.1	242.1	238.2	234.2	228.2	220.3
67.5°	222.3	222.3	222.3	220.3	216.3	214.3	212.4	210.4	204.4	198.5	190.5
70°	194.5	194.5	192.5	190.5	188.5	186.6	184.6	180.6	176.6	168.7	162.7
72.5°	166.7	166.7	166.7	162.7	160.8	160.8	156.8	154.8	150.8	142.9	136.9
75°	140.9	138.9	138.9	136.9	135.0	133.0	131.0	129.0	123.1	119.1	111.1
77.5°	115.1	115.1	113.1	111.1	111.1	109.2	107.2	103.2	101.2	95.3	89.3
80°	89.3	89.3	89.3	89.3	87.3	85.3	85.3	81.4	79.4	73.4	69.5
82.5°	67.5	65.5	65.5	65.5	63.5	61.5	61.5	59.5	57.6	53.6	49.6
85°	39.7	37.7	37.7	37.7	35.7	35.7	33.7	33.7	31.8	27.8	27.8
87.5°	11.9	11.9	13.9	13.9	11.9	11.9	11.9	11.9	11.9	9.9	9.9
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°	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1433.0	1438.9	1431.0	1429.0	1436.9	1433.0	1431.0	1427.0	1429.0	1425.0	1419.1
5°	1431.0	1438.9	1429.0	1423.0	1433.0	1427.0	1423.0	1419.1	1419.1	1411.1	1407.2
7.5°	1425.0	1429.0	1419.1	1413.1	1419.1	1413.1	1409.1	1403.2	1401.2	1391.3	1385.3
10°	1409.1	1413.1	1401.2	1393.3	1399.2	1391.3	1385.3	1379.4	1375.4	1363.5	1355.6
12.5°	1387.3	1389.3	1375.4	1365.5	1369.4	1363.5	1353.6	1345.6	1341.7	1329.8	1319.8
15°	1357.5	1359.5	1343.6	1329.8	1333.7	1325.8	1313.9	1305.9	1300.0	1288.1	1274.2
17.5°	1321.8	1319.8	1302.0	1288.1	1290.1	1280.1	1268.2	1256.3	1248.4	1234.5	1224.6
20°	1282.1	1276.2	1256.3	1240.4	1242.4	1230.5	1216.6	1204.7	1194.8	1182.9	1169.0
22.5°	1232.5	1224.6	1206.7	1186.9	1188.8	1178.9	1159.1	1149.1	1139.2	1123.3	1111.4
25°	1178.9	1167.0	1149.1	1129.3	1129.3	1117.4	1101.5	1089.6	1079.7	1063.8	1049.9
27.5°	1115.4	1109.4	1085.6	1069.8	1067.8	1055.9	1042.0	1028.1	1016.2	1002.3	988.4
30°	1045.9	1036.0	1018.2	1000.3	996.3	986.4	972.5	956.6	948.7	934.8	922.9
32.5°	972.5	962.6	942.7	924.9	922.9	914.9	903.0	887.2	879.2	869.3	861.4
35°	889.1	885.2	865.3	851.4	851.4	843.5	831.6	817.7	811.7	801.8	791.9
37.5°	809.8	803.8	785.9	774.0	774.0	764.1	752.2	746.2	740.3	732.4	726.4
40°	726.4	722.4	708.5	696.6	698.6	690.7	682.7	674.8	670.8	666.9	660.9
42.5°	649.0	645.0	635.1	625.2	625.2	619.2	611.3	605.3	601.4	595.4	593.4
45°	579.5	573.6	565.6	555.7	555.7	549.8	545.8	541.8	539.8	535.9	529.9
47.5°	512.1	508.1	500.1	490.2	490.2	490.2	482.3	476.3	476.3	472.4	470.4
50°	454.5	448.5	442.6	434.7	434.7	430.7	424.7	418.8	418.8	416.8	412.8
52.5°	400.9	396.9	389.0	381.1	381.1	377.1	371.1	369.2	367.2	361.2	359.2
55°	355.3	351.3	345.3	335.4	333.4	331.4	325.5	321.5	319.5	313.6	313.6
57.5°	313.6	309.6	299.7	293.7	291.8	287.8	281.8	277.9	275.9	271.9	267.9
60°	277.9	271.9	264.0	256.0	254.0	250.1	244.1	240.1	238.2	230.2	226.3
62.5°	244.1	238.2	230.2	222.3	220.3	216.3	208.4	204.4	200.5	192.5	188.5
65°	212.4	206.4	198.5	190.5	186.6	184.6	176.6	170.7	166.7	160.8	152.8
67.5°	182.6	176.6	168.7	158.8	158.8	152.8	146.9	140.9	135.0	129.0	123.1
70°	154.8	148.9	140.9	133.0	131.0	127.0	121.1	113.1	109.2	101.2	95.3
72.5°	129.0	123.1	115.1	107.2	105.2	101.2	95.3	87.3	81.4	75.4	69.5
75°	105.2	99.2	91.3	85.3	83.4	79.4	73.4	65.5	59.5	55.6	49.6
77.5°	83.4	77.4	71.4	65.5	63.5	59.5	53.6	49.6	43.7	39.7	33.7
80°	63.5	59.5	53.6	49.6	47.6	43.7	39.7	33.7	29.8	25.8	23.8
82.5°	45.6	41.7	37.7	31.8	31.8	27.8	25.8	21.8	17.9	15.9	13.9
85°	25.8	21.8	19.8	17.9	15.9	15.9	13.9	11.9	9.9	7.9	7.9
87.5°	7.9	7.9	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0
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°	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1419.1	1421.0	1417.1	1421.0	1417.1	1419.1	1415.1	1419.1	1415.1	1419.1	1411.1
5°	1405.2	1405.2	1399.2	1403.2	1399.2	1401.2	1393.3	1395.2	1391.3	1395.2	1387.3
7.5°	1381.4	1383.3	1373.4	1377.4	1371.4	1371.4	1365.5	1367.5	1361.5	1363.5	1357.5
10°	1353.6	1351.6	1341.7	1345.6	1337.7	1337.7	1331.7	1331.7	1323.8	1325.8	1317.8
12.5°	1313.9	1311.9	1300.0	1304.0	1296.0	1296.0	1290.1	1290.1	1282.1	1286.1	1278.1
15°	1268.2	1266.2	1254.3	1256.3	1248.4	1248.4	1240.4	1242.4	1236.5	1240.4	1232.5
17.5°	1216.6	1214.6	1202.7	1204.7	1194.8	1196.8	1190.8	1188.8	1184.9	1186.9	1180.9
20°	1163.0	1159.1	1147.2	1149.1	1145.2	1139.2	1135.3	1137.2	1133.3	1137.2	1131.3
22.5°	1107.5	1099.5	1089.6	1089.6	1085.6	1085.6	1079.7	1083.6	1075.7	1081.7	1077.7
25°	1044.0	1038.0	1030.1	1034.0	1026.1	1026.1	1020.1	1022.1	1018.2	1022.1	1018.2
27.5°	982.4	978.5	966.6	970.5	964.6	966.6	960.6	962.6	960.6	964.6	960.6
30°	916.9	914.9	907.0	907.0	905.0	903.0	901.1	901.1	899.1	905.0	901.1
32.5°	855.4	849.5	841.5	847.5	837.5	843.5	839.5	843.5	839.5	843.5	841.5
35°	791.9	789.9	780.0	782.0	780.0	780.0	778.0	778.0	778.0	784.0	784.0
37.5°	724.4	722.4	716.5	718.5	714.5	712.5	712.5	716.5	716.5	720.4	720.4
40°	658.9	660.9	655.0	655.0	653.0	653.0	653.0	656.9	655.0	658.9	656.9
42.5°	593.4	593.4	587.5	589.5	587.5	589.5	589.5	593.4	593.4	595.4	593.4
45°	531.9	531.9	529.9	531.9	527.9	529.9	527.9	531.9	529.9	531.9	531.9
47.5°	470.4	470.4	470.4	468.4	468.4	468.4	468.4	468.4	466.4	470.4	468.4
50°	412.8	414.8	412.8	412.8	410.8	412.8	410.8	410.8	406.9	408.8	408.8
52.5°	361.2	361.2	357.2	357.2	357.2	355.3	355.3	355.3	353.3	353.3	349.3
55°	311.6	311.6	307.6	307.6	305.6	303.7	301.7	301.7	295.7	295.7	289.8
57.5°	266.0	264.0	258.0	258.0	254.0	252.1	250.1	248.1	244.1	240.1	238.2
60°	224.3	220.3	216.3	214.3	210.4	206.4	202.4	198.5	194.5	192.5	190.5
62.5°	184.6	178.6	174.7	172.7	168.7	162.7	158.8	154.8	150.8	148.9	144.9
65°	148.9	142.9	136.9	135.0	131.0	127.0	121.1	117.1	113.1	111.1	111.1
67.5°	117.1	111.1	103.2	103.2	99.2	95.3	91.3	87.3	85.3	87.3	87.3
70°	87.3	83.4	77.4	75.4	71.4	67.5	65.5	65.5	65.5	67.5	65.5
72.5°	65.5	59.5	55.6	53.6	51.6	49.6	49.6	49.6	47.6	49.6	49.6
75°	45.6	41.7	37.7	37.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
77.5°	31.8	27.8	25.8	25.8	25.8	23.8	23.8	23.8	23.8	23.8	23.8
80°	19.8	19.8	17.9	17.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
82.5°	11.9	11.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
85°	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P252503

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1411.1	1417.1	1409.1	1415.1	1413.1	1411.1	1407.2	1415.1
5°	1387.3	1389.3	1381.4	1389.3	1387.3	1383.3	1379.4	1387.3
7.5°	1353.6	1359.5	1349.6	1357.5	1355.6	1351.6	1347.6	1355.6
10°	1315.9	1321.8	1313.9	1319.8	1319.8	1315.9	1309.9	1317.8
12.5°	1274.2	1278.1	1270.2	1278.1	1276.2	1272.2	1270.2	1276.2
15°	1228.5	1234.5	1226.5	1232.5	1230.5	1228.5	1226.5	1232.5
17.5°	1178.9	1184.9	1178.9	1184.9	1184.9	1178.9	1176.9	1180.9
20°	1129.3	1133.3	1127.3	1133.3	1131.3	1131.3	1127.3	1133.3
22.5°	1073.7	1079.7	1075.7	1079.7	1077.7	1077.7	1075.7	1079.7
25°	1018.2	1024.1	1018.2	1024.1	1022.1	1022.1	1018.2	1028.1
27.5°	962.6	966.6	960.6	968.5	966.6	962.6	964.6	966.6
30°	903.0	907.0	903.0	909.0	909.0	909.0	905.0	909.0
32.5°	843.5	849.5	843.5	849.5	847.5	847.5	845.5	849.5
35°	784.0	785.9	782.0	787.9	787.9	789.9	785.9	791.9
37.5°	722.4	724.4	722.4	724.4	728.4	722.4	726.4	728.4
40°	658.9	662.9	660.9	662.9	662.9	664.9	662.9	664.9
42.5°	595.4	599.4	595.4	601.4	599.4	599.4	601.4	601.4
45°	529.9	535.9	531.9	535.9	537.9	535.9	535.9	539.8
47.5°	468.4	472.4	470.4	472.4	472.4	472.4	472.4	476.3
50°	406.9	408.8	408.8	410.8	410.8	412.8	408.8	410.8
52.5°	345.3	349.3	349.3	349.3	347.3	349.3	349.3	349.3
55°	289.8	291.8	287.8	291.8	291.8	289.8	289.8	293.7
57.5°	236.2	236.2	236.2	236.2	236.2	234.2	236.2	236.2
60°	186.6	188.5	186.6	186.6	186.6	186.6	184.6	188.5
62.5°	144.9	144.9	142.9	144.9	144.9	144.9	146.9	146.9
65°	113.1	115.1	113.1	115.1	115.1	115.1	115.1	117.1
67.5°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
70°	67.5	67.5	67.5	69.5	67.5	67.5	67.5	69.5
72.5°	49.6	49.6	49.6	49.6	49.6	49.6	51.6	51.6
75°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
77.5°	23.8	23.8	23.8	25.8	23.8	25.8	23.8	23.8
80°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
82.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	4.0	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



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













(END OF REPORT)