

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: P252689

Luminaire Tested: **LD6B30D010 EU6B30508035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252689
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: LD6B30D010 EU6B30508035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2827.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

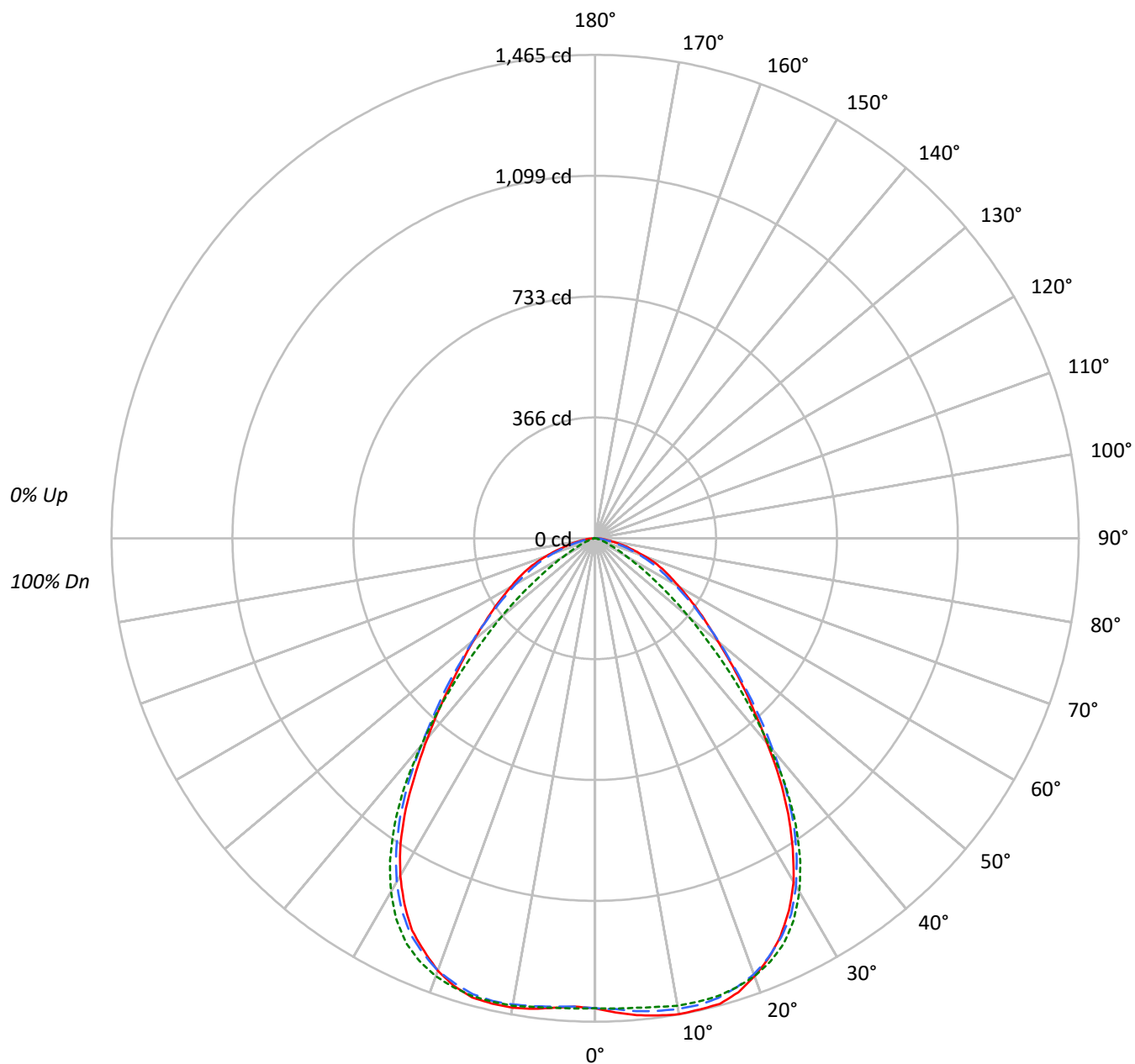
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
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°	92922	92922	92922
5°	94993	93539	93539
10°	97025	95290	95687
15°	98652	97017	97288
20°	98046	98046	96789
25°	95711	97453	94408
30°	90603	93180	88931
35°	81189	84399	79580
40°	68976	69827	67255
45°	58366	53347	56318
50°	49277	37625	48668
55°	43314	24284	42847
60°	38375	14457	38635
65°	35459	8707	35459
70°	30749	4998	29967
75°	24375	3050	22863
80°	18147	2254	17395
85°	16618	1497	15046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	4.9
10°-20°	405.8	14.4
20°-30°	610.4	21.6
30°-40°	641.7	22.7
40°-50°	479.4	17.0
50°-60°	298.4	10.6
60°-70°	169.7	6.0
70°-80°	69.9	2.5
80°-90°	14.4	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°	1153.3	40.8
0°-40°	1795.1	63.5
0°-60°	2572.9	91.0
0°-90°	2827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1424	1424	1424	1424	1424	
5°	1450	1438	1428	1424	1428	139
15°	1461	1442	1436	1430	1440	411
25°	1330	1334	1354	1324	1312	609
35°	1019	1046	1060	1029	999	633
45°	633	647	578	635	610	490
55°	381	373	214	367	377	342
65°	230	206	56	206	230	226
75°	97	77	12	74	91	105
85°	22	14	2	12	20	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°	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3
2.5°	1438.4	1436.4	1438.4	1434.4	1432.4	1432.4	1434.4	1430.3	1428.3	1430.3	1428.3
5°	1450.5	1446.5	1448.5	1446.5	1442.4	1442.4	1444.4	1438.4	1438.4	1440.4	1438.4
7.5°	1458.6	1458.6	1458.6	1454.5	1452.5	1450.5	1454.5	1448.5	1446.5	1446.5	1444.4
10°	1464.6	1462.6	1464.6	1460.6	1456.5	1454.5	1458.6	1454.5	1450.5	1454.5	1448.5
12.5°	1462.6	1462.6	1462.6	1460.6	1456.5	1454.5	1458.6	1452.5	1450.5	1452.5	1448.5
15°	1460.6	1454.5	1456.5	1454.5	1448.5	1448.5	1450.5	1444.4	1440.4	1446.5	1442.4
17.5°	1442.4	1438.4	1440.4	1436.4	1432.4	1430.3	1432.4	1430.3	1426.3	1430.3	1426.3
20°	1412.2	1412.2	1414.2	1410.2	1406.2	1404.2	1408.2	1404.2	1400.1	1406.2	1406.2
22.5°	1376.0	1376.0	1376.0	1373.9	1371.9	1371.9	1371.9	1369.9	1367.9	1371.9	1373.9
25°	1329.6	1327.6	1329.6	1331.6	1329.6	1327.6	1329.6	1329.6	1325.6	1333.6	1333.6
27.5°	1271.2	1271.2	1275.2	1273.2	1273.2	1271.2	1275.2	1275.2	1273.2	1279.3	1285.3
30°	1202.7	1198.7	1202.7	1202.7	1204.7	1204.7	1206.7	1206.7	1206.7	1212.8	1216.8
32.5°	1114.1	1116.1	1122.1	1120.1	1118.1	1124.1	1124.1	1128.2	1130.2	1134.2	1136.2
35°	1019.4	1021.4	1021.4	1023.4	1027.4	1023.4	1033.5	1031.5	1033.5	1041.5	1045.6
37.5°	918.6	912.6	922.7	918.6	920.7	920.7	924.7	926.7	932.7	942.8	942.8
40°	809.9	811.9	815.9	817.9	819.9	819.9	819.9	826.0	828.0	840.1	838.1
42.5°	715.2	715.2	719.2	721.2	721.2	721.2	721.2	727.3	731.3	735.3	739.3
45°	632.6	626.5	630.6	630.6	634.6	632.6	636.6	640.6	642.6	648.7	646.7
47.5°	554.0	552.0	554.0	556.0	554.0	556.0	558.0	560.1	562.1	562.1	562.1
50°	485.5	485.5	487.5	489.5	489.5	489.5	489.5	491.6	491.6	495.6	491.6
52.5°	429.1	431.1	431.1	429.1	431.1	431.1	433.1	433.1	431.1	431.1	425.1
55°	380.8	378.7	380.8	378.7	380.8	380.8	378.7	378.7	376.7	374.7	372.7
57.5°	334.4	334.4	334.4	334.4	332.4	334.4	332.4	330.4	330.4	326.4	320.3
60°	294.1	294.1	294.1	294.1	294.1	292.1	294.1	292.1	288.1	284.1	276.0
62.5°	259.9	257.9	259.9	257.9	257.9	255.9	255.9	253.8	249.8	245.8	237.7
65°	229.7	231.7	229.7	229.7	227.6	225.6	225.6	223.6	217.6	213.5	205.5
67.5°	197.4	195.4	195.4	195.4	193.4	193.4	193.4	189.4	185.3	179.3	171.2
70°	161.2	161.2	161.2	159.2	159.2	157.1	157.1	155.1	151.1	147.1	137.0
72.5°	126.9	126.9	126.9	122.9	124.9	122.9	122.9	118.9	116.8	110.8	104.8
75°	96.7	96.7	94.7	94.7	92.7	90.7	90.7	88.6	86.6	82.6	76.6
77.5°	70.5	70.5	70.5	68.5	66.5	64.5	64.5	62.5	60.4	58.4	54.4
80°	48.3	48.3	48.3	48.3	46.3	44.3	44.3	42.3	42.3	40.3	36.3
82.5°	32.2	32.2	32.2	32.2	30.2	30.2	30.2	28.2	26.2	26.2	22.2
85°	22.2	22.2	20.1	20.1	20.1	20.1	18.1	18.1	16.1	14.1	14.1
87.5°	12.1	12.1	12.1	12.1	10.1	10.1	10.1	10.1	8.1	8.1	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°	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3
2.5°	1434.4	1434.4	1432.4	1426.3	1428.3	1426.3	1428.3	1426.3	1420.3	1426.3	1420.3
5°	1442.4	1444.4	1440.4	1432.4	1434.4	1432.4	1432.4	1430.3	1424.3	1428.3	1424.3
7.5°	1450.5	1448.5	1446.5	1438.4	1440.4	1438.4	1438.4	1434.4	1428.3	1432.4	1426.3
10°	1454.5	1454.5	1450.5	1442.4	1442.4	1440.4	1442.4	1440.4	1432.4	1438.4	1434.4
12.5°	1454.5	1452.5	1452.5	1442.4	1444.4	1442.4	1444.4	1440.4	1434.4	1438.4	1436.4
15°	1448.5	1448.5	1446.5	1436.4	1438.4	1438.4	1440.4	1436.4	1430.3	1436.4	1432.4
17.5°	1436.4	1436.4	1434.4	1426.3	1430.3	1430.3	1432.4	1428.3	1422.3	1426.3	1426.3
20°	1412.2	1414.2	1414.2	1408.2	1412.2	1412.2	1414.2	1412.2	1410.2	1412.2	1408.2
22.5°	1384.0	1388.0	1388.0	1382.0	1386.0	1386.0	1392.1	1390.1	1386.0	1388.0	1386.0
25°	1341.7	1345.7	1349.8	1345.7	1349.8	1349.8	1355.8	1353.8	1349.8	1353.8	1347.7
27.5°	1293.4	1295.4	1299.4	1295.4	1301.4	1299.4	1305.4	1303.4	1297.4	1303.4	1301.4
30°	1224.9	1232.9	1239.0	1232.9	1239.0	1239.0	1243.0	1241.0	1239.0	1236.9	1236.9
32.5°	1148.3	1156.4	1156.4	1154.4	1158.4	1158.4	1160.4	1156.4	1154.4	1156.4	1158.4
35°	1053.6	1057.7	1061.7	1059.7	1061.7	1063.7	1061.7	1063.7	1057.7	1059.7	1059.7
37.5°	950.9	954.9	954.9	948.9	952.9	952.9	948.9	948.9	944.8	948.9	940.8
40°	842.1	838.1	840.1	836.0	832.0	832.0	830.0	821.9	817.9	819.9	821.9
42.5°	735.3	735.3	729.3	719.2	709.1	709.1	703.1	699.1	691.0	695.0	693.0
45°	644.7	634.6	626.5	610.4	604.4	600.3	590.3	580.2	576.2	578.2	576.2
47.5°	558.0	550.0	529.8	507.7	501.6	495.6	483.5	471.4	467.4	463.4	463.4
50°	485.5	471.4	449.2	425.1	415.0	404.9	388.8	376.7	368.7	370.7	370.7
52.5°	419.0	402.9	376.7	346.5	334.4	322.3	308.2	294.1	288.1	286.1	286.1
55°	360.6	342.5	316.3	282.0	272.0	257.9	239.7	223.6	215.6	213.5	217.6
57.5°	308.2	292.1	261.9	227.6	215.6	201.5	183.3	169.2	159.2	157.1	159.2
60°	265.9	243.8	217.6	185.3	169.2	157.1	137.0	124.9	114.8	110.8	112.8
62.5°	223.6	203.5	177.3	145.0	133.0	120.9	102.7	88.6	80.6	78.6	80.6
65°	191.4	171.2	147.1	118.9	106.8	94.7	78.6	64.5	58.4	56.4	58.4
67.5°	159.2	141.0	120.9	94.7	84.6	74.5	58.4	48.3	40.3	38.3	40.3
70°	128.9	112.8	92.7	74.5	64.5	56.4	44.3	34.2	28.2	26.2	28.2
72.5°	96.7	84.6	70.5	54.4	48.3	42.3	32.2	24.2	20.1	18.1	20.1
75°	70.5	60.4	50.4	38.3	34.2	30.2	22.2	16.1	14.1	12.1	14.1
77.5°	48.3	42.3	34.2	26.2	22.2	20.1	14.1	12.1	10.1	8.1	8.1
80°	32.2	28.2	22.2	18.1	16.1	14.1	10.1	8.1	6.0	6.0	6.0
82.5°	20.1	16.1	14.1	10.1	8.1	8.1	6.0	4.0	4.0	4.0	4.0
85°	12.1	10.1	8.1	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°	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3
2.5°	1424.3	1420.3	1420.3	1422.3	1424.3	1426.3	1422.3	1420.3	1420.3	1426.3	1422.3
5°	1424.3	1422.3	1422.3	1422.3	1426.3	1428.3	1424.3	1422.3	1424.3	1430.3	1428.3
7.5°	1430.3	1426.3	1428.3	1428.3	1430.3	1434.4	1430.3	1428.3	1430.3	1436.4	1432.4
10°	1434.4	1430.3	1432.4	1430.3	1436.4	1438.4	1434.4	1432.4	1434.4	1442.4	1440.4
12.5°	1436.4	1434.4	1434.4	1432.4	1438.4	1440.4	1436.4	1434.4	1436.4	1442.4	1440.4
15°	1432.4	1430.3	1430.3	1430.3	1434.4	1438.4	1432.4	1430.3	1430.3	1436.4	1434.4
17.5°	1424.3	1420.3	1420.3	1420.3	1422.3	1424.3	1418.3	1416.2	1414.2	1420.3	1418.3
20°	1410.2	1406.2	1402.1	1402.1	1404.2	1404.2	1400.1	1394.1	1394.1	1396.1	1392.1
22.5°	1384.0	1382.0	1378.0	1376.0	1380.0	1378.0	1369.9	1363.9	1361.9	1363.9	1359.8
25°	1347.7	1343.7	1341.7	1339.7	1341.7	1339.7	1331.6	1323.6	1323.6	1323.6	1317.5
27.5°	1297.4	1293.4	1291.3	1291.3	1293.4	1289.3	1281.3	1273.2	1269.2	1269.2	1263.1
30°	1232.9	1232.9	1230.9	1228.9	1226.9	1226.9	1214.8	1206.7	1202.7	1204.7	1200.7
32.5°	1154.4	1152.3	1150.3	1144.3	1146.3	1144.3	1134.2	1128.2	1122.1	1118.1	1116.1
35°	1053.6	1053.6	1051.6	1051.6	1051.6	1049.6	1039.5	1033.5	1029.4	1027.4	1021.4
37.5°	942.8	940.8	938.8	938.8	938.8	938.8	932.7	926.7	926.7	924.7	920.7
40°	817.9	819.9	821.9	819.9	826.0	832.0	824.0	819.9	817.9	824.0	815.9
42.5°	697.0	695.0	705.1	707.1	707.1	717.2	719.2	721.2	719.2	723.2	723.2
45°	580.2	578.2	588.3	592.3	602.4	614.4	620.5	630.6	634.6	638.6	634.6
47.5°	469.4	477.5	485.5	495.6	503.6	523.8	535.9	545.9	550.0	556.0	556.0
50°	376.7	384.8	398.9	406.9	417.0	441.2	461.3	475.4	483.5	489.5	487.5
52.5°	290.1	304.2	322.3	330.4	344.5	372.7	394.9	411.0	421.0	427.1	429.1
55°	223.6	235.7	253.8	265.9	280.0	310.2	338.4	356.6	366.7	374.7	378.7
57.5°	165.2	179.3	199.4	209.5	225.6	259.9	284.1	306.2	318.3	328.4	330.4
60°	120.9	135.0	153.1	165.2	181.3	215.6	243.8	263.9	278.0	286.1	290.1
62.5°	86.6	100.7	118.9	130.9	145.0	175.3	203.5	223.6	237.7	247.8	253.8
65°	62.5	76.6	94.7	104.8	116.8	145.0	171.2	191.4	205.5	217.6	221.6
67.5°	46.3	56.4	72.5	82.6	94.7	116.8	139.0	157.1	171.2	181.3	185.3
70°	34.2	42.3	56.4	62.5	70.5	90.7	108.8	124.9	137.0	145.0	149.1
72.5°	24.2	30.2	40.3	46.3	52.4	68.5	82.6	94.7	102.7	110.8	114.8
75°	16.1	20.1	28.2	32.2	36.3	48.3	58.4	68.5	74.5	80.6	82.6
77.5°	10.1	14.1	20.1	22.2	26.2	32.2	40.3	46.3	50.4	54.4	58.4
80°	6.0	8.1	12.1	14.1	16.1	22.2	26.2	30.2	34.2	38.3	40.3
82.5°	4.0	6.0	8.1	8.1	10.1	12.1	16.1	20.1	22.2	24.2	26.2
85°	2.0	2.0	4.0	4.0	6.0	6.0	8.1	10.1	12.1	14.1	16.1
87.5°	2.0	2.0	2.0	2.0	4.0	4.0	6.0	6.0	6.0	8.1	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



TEST NUMBER: P252689

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3
2.5°	1418.3	1424.3	1418.3	1422.3	1420.3	1420.3	1418.3	1420.3
5°	1424.3	1432.4	1424.3	1430.3	1426.3	1426.3	1426.3	1428.3
7.5°	1430.3	1438.4	1432.4	1438.4	1436.4	1434.4	1434.4	1438.4
10°	1436.4	1442.4	1438.4	1444.4	1442.4	1440.4	1440.4	1444.4
12.5°	1436.4	1444.4	1440.4	1446.5	1444.4	1442.4	1442.4	1444.4
15°	1430.3	1440.4	1434.4	1440.4	1438.4	1436.4	1436.4	1440.4
17.5°	1412.2	1420.3	1416.2	1420.3	1420.3	1418.3	1420.3	1422.3
20°	1388.0	1394.1	1390.1	1394.1	1394.1	1390.1	1392.1	1394.1
22.5°	1353.8	1359.8	1355.8	1359.8	1357.8	1355.8	1355.8	1353.8
25°	1311.5	1319.5	1313.5	1317.5	1313.5	1309.5	1309.5	1311.5
27.5°	1259.1	1265.2	1257.1	1261.1	1257.1	1253.1	1253.1	1251.0
30°	1190.6	1192.6	1186.6	1190.6	1186.6	1184.6	1180.5	1180.5
32.5°	1108.0	1110.0	1104.0	1104.0	1100.0	1100.0	1091.9	1097.9
35°	1011.3	1013.3	1011.3	1009.3	1003.3	1001.2	999.2	999.2
37.5°	910.6	910.6	904.5	902.5	898.5	894.5	896.5	890.4
40°	807.8	805.8	799.8	801.8	799.8	793.7	791.7	789.7
42.5°	711.1	711.1	705.1	707.1	703.1	701.1	695.0	697.0
45°	626.5	626.5	620.5	620.5	618.5	612.4	614.4	610.4
47.5°	550.0	550.0	548.0	548.0	541.9	539.9	539.9	539.9
50°	483.5	483.5	483.5	483.5	481.5	479.5	477.5	479.5
52.5°	427.1	431.1	429.1	429.1	427.1	425.1	423.1	423.1
55°	376.7	378.7	378.7	380.8	378.7	376.7	378.7	376.7
57.5°	332.4	336.4	336.4	336.4	336.4	336.4	334.4	332.4
60°	294.1	296.1	296.1	298.2	298.2	298.2	296.1	296.1
62.5°	255.9	259.9	261.9	261.9	263.9	261.9	261.9	261.9
65°	225.6	229.7	231.7	229.7	231.7	231.7	229.7	229.7
67.5°	189.4	193.4	193.4	193.4	193.4	195.4	193.4	193.4
70°	153.1	157.1	155.1	157.1	157.1	157.1	157.1	157.1
72.5°	116.8	118.9	120.9	120.9	122.9	120.9	120.9	120.9
75°	84.6	88.6	88.6	88.6	88.6	90.7	90.7	90.7
77.5°	60.4	62.5	62.5	64.5	64.5	64.5	64.5	66.5
80°	42.3	42.3	44.3	44.3	46.3	46.3	46.3	46.3
82.5°	28.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
85°	16.1	18.1	18.1	18.1	18.1	20.1	20.1	20.1
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	8.1	8.1
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)