

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: P252491

Luminaire Tested: **LD6B30D010 EU6B30509730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252491
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: LD6B30D010 EU6B30509730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 1873.0 lumens
Efficiency: N/A
Efficacy: 66.9 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

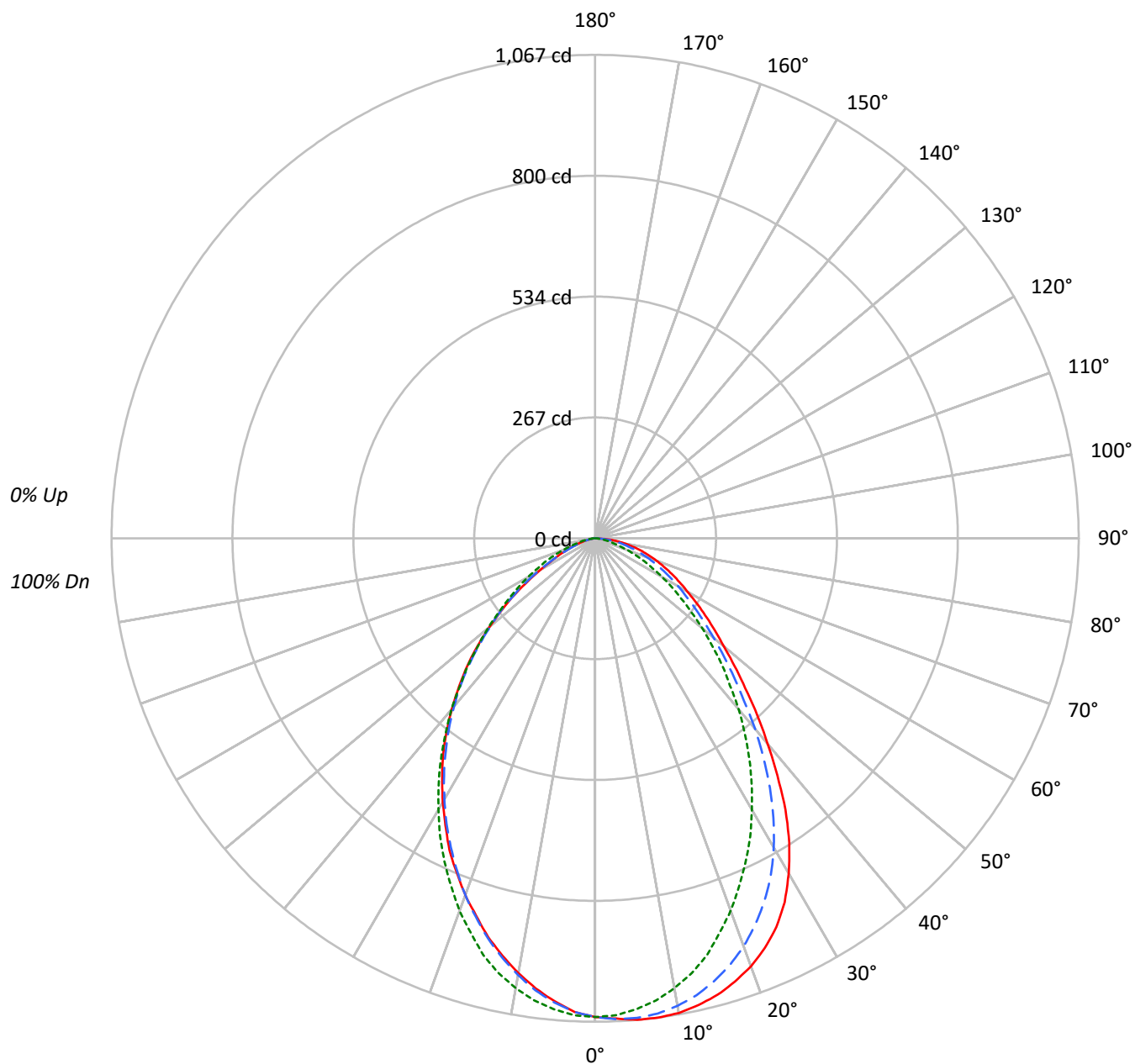
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252491

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBLWW1H

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	68933	68933	68933
5°	69871	68332	67179
10°	70487	66790	64558
15°	70473	64334	61558
20°	69796	60728	58180
25°	68141	56623	54723
30°	64342	52070	50632
35°	58323	47221	46640
40°	50367	41995	41867
45°	43198	36555	36832
50°	37533	31281	30835
55°	33714	26377	24705
60°	30637	22208	18189
65°	28775	18355	13369
70°	27430	14268	9805
75°	26266	10360	6655
80°	24797	7176	4396
85°	22007	4416	2171



TEST NUMBER: P252491

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	5.3
10°-20°	270.7	14.5
20°-30°	375.8	20.1
30°-40°	389.3	20.8
40°-50°	319.9	17.1
50°-60°	219.9	11.7
60°-70°	126.4	6.7
70°-80°	58.1	3.1
80°-90°	14.1	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°	745.4	39.8
0°-40°	1134.6	60.6
0°-60°	1674.4	89.4
0°-90°	1873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1057	1057	1057	1057	1057	
5°	1067	1062	1043	1029	1026	102
15°	1043	1013	952	914	911	294
25°	947	884	787	753	760	433
35°	732	672	593	575	586	454
45°	468	433	396	392	399	365
55°	296	269	232	219	217	267
65°	186	163	119	84	87	186
75°	104	82	41	26	26	110
85°	29	20	6	3	3	33
90°	0	0	0	0	0	



TEST NUMBER: P252491

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6
2.5°	1061.1	1069.9	1064.0	1062.5	1065.5	1065.5	1065.5	1061.1	1064.0	1059.6	1062.5
5°	1066.9	1074.3	1068.4	1065.5	1068.4	1069.9	1065.5	1062.5	1066.9	1061.1	1062.5
7.5°	1066.9	1074.3	1068.4	1066.9	1068.4	1068.4	1066.9	1061.1	1064.0	1058.1	1058.1
10°	1064.0	1069.9	1064.0	1061.1	1062.5	1061.1	1061.1	1053.7	1055.2	1047.8	1047.8
12.5°	1055.2	1062.5	1055.2	1052.2	1052.2	1052.2	1047.8	1042.0	1043.4	1034.6	1033.2
15°	1043.4	1049.3	1042.0	1039.0	1039.0	1037.6	1034.6	1025.8	1025.8	1017.0	1012.6
17.5°	1025.8	1031.7	1025.8	1021.4	1020.0	1017.0	1014.1	1005.3	1002.3	992.1	987.7
20°	1005.3	1009.7	1003.8	999.4	996.5	993.5	987.7	978.9	975.9	965.7	958.3
22.5°	978.9	984.7	975.9	971.5	968.6	964.2	958.3	949.5	945.1	931.9	923.1
25°	946.6	949.5	942.2	937.8	931.9	929.0	924.6	912.8	908.4	893.7	883.5
27.5°	905.5	908.4	899.6	896.7	889.3	886.4	880.5	870.3	864.4	849.7	839.4
30°	854.1	857.1	851.2	846.8	840.9	835.0	830.6	820.4	811.6	796.9	788.1
32.5°	796.9	801.3	795.4	789.6	779.3	780.7	773.4	763.1	755.8	742.6	732.3
35°	732.3	735.3	727.9	726.4	720.6	714.7	707.4	700.0	695.6	681.0	672.1
37.5°	660.4	667.7	660.4	654.5	651.6	647.2	642.8	632.5	629.6	620.8	609.0
40°	591.4	595.8	591.4	585.6	581.2	581.2	575.3	569.4	562.1	553.3	548.9
42.5°	529.8	526.9	525.4	522.5	516.6	515.1	513.6	506.3	501.9	493.1	485.8
45°	468.2	469.6	466.7	465.2	460.8	457.9	454.9	449.1	447.6	438.8	432.9
47.5°	416.8	415.3	412.4	412.4	409.5	406.5	403.6	399.2	397.7	390.4	384.5
50°	369.8	371.3	369.8	368.4	364.0	362.5	359.6	356.6	353.7	346.3	340.5
52.5°	331.7	330.2	328.7	328.7	324.3	322.9	319.9	317.0	314.1	306.7	302.3
55°	296.4	296.4	295.0	293.5	289.1	287.6	286.2	283.2	278.8	273.0	268.6
57.5°	264.2	264.2	262.7	261.2	258.3	258.3	255.4	252.4	249.5	243.6	237.7
60°	234.8	236.3	234.8	233.3	230.4	230.4	228.9	224.5	223.1	215.7	211.3
62.5°	209.9	209.9	209.9	208.4	206.9	204.0	204.0	199.6	196.7	192.3	186.4
65°	186.4	186.4	186.4	184.9	182.0	180.5	179.0	176.1	173.2	168.8	162.9
67.5°	164.4	164.4	164.4	162.9	160.0	158.5	157.0	155.6	151.2	146.8	140.9
70°	143.8	143.8	142.4	140.9	139.4	138.0	136.5	133.5	130.6	124.7	120.3
72.5°	123.3	123.3	123.3	120.3	118.9	118.9	115.9	114.5	111.5	105.7	101.3
75°	104.2	102.7	102.7	101.3	99.8	98.3	96.9	95.4	91.0	88.1	82.2
77.5°	85.1	85.1	83.7	82.2	82.2	80.7	79.2	76.3	74.8	70.4	66.0
80°	66.0	66.0	66.0	66.0	64.6	63.1	63.1	60.2	58.7	54.3	51.4
82.5°	49.9	48.4	48.4	48.4	47.0	45.5	45.5	44.0	42.6	39.6	36.7
85°	29.4	27.9	27.9	27.9	26.4	26.4	24.9	24.9	23.5	20.5	20.5
87.5°	8.8	8.8	10.3	10.3	8.8	8.8	8.8	8.8	8.8	7.3	7.3
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: P252491

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6
2.5°	1059.6	1064.0	1058.1	1056.6	1062.5	1059.6	1058.1	1055.2	1056.6	1053.7	1049.3
5°	1058.1	1064.0	1056.6	1052.2	1059.6	1055.2	1052.2	1049.3	1049.3	1043.4	1040.5
7.5°	1053.7	1056.6	1049.3	1044.9	1049.3	1044.9	1042.0	1037.6	1036.1	1028.8	1024.4
10°	1042.0	1044.9	1036.1	1030.2	1034.6	1028.8	1024.4	1020.0	1017.0	1008.2	1002.3
12.5°	1025.8	1027.3	1017.0	1009.7	1012.6	1008.2	1000.9	995.0	992.1	983.3	975.9
15°	1003.8	1005.3	993.5	983.3	986.2	980.3	971.5	965.7	961.3	952.5	942.2
17.5°	977.4	975.9	962.7	952.5	953.9	946.6	937.8	929.0	923.1	912.8	905.5
20°	948.0	943.6	929.0	917.2	918.7	909.9	899.6	890.8	883.5	874.7	864.4
22.5°	911.4	905.5	892.3	877.6	879.1	871.7	857.1	849.7	842.4	830.6	821.8
25°	871.7	862.9	849.7	835.0	835.0	826.2	814.5	805.7	798.4	786.6	776.3
27.5°	824.8	820.4	802.8	791.0	789.6	780.7	770.5	760.2	751.4	741.1	730.8
30°	773.4	766.1	752.9	739.7	736.7	729.4	719.1	707.4	701.5	691.2	682.4
32.5°	719.1	711.8	697.1	683.9	682.4	676.5	667.7	656.0	650.1	642.8	636.9
35°	657.5	654.5	639.9	629.6	629.6	623.7	614.9	604.6	600.2	592.9	585.6
37.5°	598.8	594.4	581.2	572.4	572.4	565.0	556.2	551.8	547.4	541.5	537.1
40°	537.1	534.2	523.9	515.1	516.6	510.7	504.8	499.0	496.0	493.1	488.7
42.5°	479.9	477.0	469.6	462.3	462.3	457.9	452.0	447.6	444.7	440.3	438.8
45°	428.5	424.1	418.3	410.9	410.9	406.5	403.6	400.6	399.2	396.2	391.8
47.5°	378.6	375.7	369.8	362.5	362.5	362.5	356.6	352.2	352.2	349.3	347.8
50°	336.1	331.7	327.3	321.4	321.4	318.5	314.1	309.7	309.7	308.2	305.3
52.5°	296.4	293.5	287.6	281.8	281.8	278.8	274.4	273.0	271.5	267.1	265.6
55°	262.7	259.8	255.4	248.0	246.6	245.1	240.7	237.7	236.3	231.9	231.9
57.5°	231.9	228.9	221.6	217.2	215.7	212.8	208.4	205.5	204.0	201.1	198.1
60°	205.5	201.1	195.2	189.3	187.8	184.9	180.5	177.6	176.1	170.2	167.3
62.5°	180.5	176.1	170.2	164.4	162.9	160.0	154.1	151.2	148.2	142.4	139.4
65°	157.0	152.6	146.8	140.9	138.0	136.5	130.6	126.2	123.3	118.9	113.0
67.5°	135.0	130.6	124.7	117.4	117.4	113.0	108.6	104.2	99.8	95.4	91.0
70°	114.5	110.1	104.2	98.3	96.9	93.9	89.5	83.7	80.7	74.8	70.4
72.5°	95.4	91.0	85.1	79.2	77.8	74.8	70.4	64.6	60.2	55.8	51.4
75°	77.8	73.4	67.5	63.1	61.6	58.7	54.3	48.4	44.0	41.1	36.7
77.5°	61.6	57.2	52.8	48.4	47.0	44.0	39.6	36.7	32.3	29.4	24.9
80°	47.0	44.0	39.6	36.7	35.2	32.3	29.4	24.9	22.0	19.1	17.6
82.5°	33.8	30.8	27.9	23.5	23.5	20.5	19.1	16.1	13.2	11.7	10.3
85°	19.1	16.1	14.7	13.2	11.7	11.7	10.3	8.8	7.3	5.9	5.9
87.5°	5.9	5.9	4.4	4.4	4.4	4.4	2.9	2.9	2.9	2.9	2.9
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: P252491

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6
2.5°	1049.3	1050.8	1047.8	1050.8	1047.8	1049.3	1046.4	1049.3	1046.4	1049.3	1043.4
5°	1039.0	1039.0	1034.6	1037.6	1034.6	1036.1	1030.2	1031.7	1028.8	1031.7	1025.8
7.5°	1021.4	1022.9	1015.6	1018.5	1014.1	1014.1	1009.7	1011.2	1006.8	1008.2	1003.8
10°	1000.9	999.4	992.1	995.0	989.1	989.1	984.7	984.7	978.9	980.3	974.5
12.5°	971.5	970.1	961.3	964.2	958.3	958.3	953.9	953.9	948.0	951.0	945.1
15°	937.8	936.3	927.5	929.0	923.1	923.1	917.2	918.7	914.3	917.2	911.4
17.5°	899.6	898.2	889.3	890.8	883.5	884.9	880.5	879.1	876.1	877.6	873.2
20°	860.0	857.1	848.3	849.7	846.8	842.4	839.4	840.9	838.0	840.9	836.5
22.5°	818.9	813.0	805.7	805.7	802.8	802.8	798.4	801.3	795.4	799.8	796.9
25°	771.9	767.5	761.7	764.6	758.7	758.7	754.3	755.8	752.9	755.8	752.9
27.5°	726.4	723.5	714.7	717.6	713.2	714.7	710.3	711.8	710.3	713.2	710.3
30°	678.0	676.5	670.7	670.7	669.2	667.7	666.3	666.3	664.8	669.2	666.3
32.5°	632.5	628.1	622.2	626.7	619.3	623.7	620.8	623.7	620.8	623.7	622.2
35°	585.6	584.1	576.8	578.2	576.8	576.8	575.3	575.3	575.3	579.7	579.7
37.5°	535.7	534.2	529.8	531.3	528.3	526.9	526.9	529.8	529.8	532.7	532.7
40°	487.2	488.7	484.3	484.3	482.8	482.8	482.8	485.8	484.3	487.2	485.8
42.5°	438.8	438.8	434.4	435.9	434.4	435.9	435.9	438.8	438.8	440.3	438.8
45°	393.3	393.3	391.8	393.3	390.4	391.8	390.4	393.3	391.8	393.3	393.3
47.5°	347.8	347.8	347.8	346.3	346.3	346.3	346.3	346.3	344.9	347.8	346.3
50°	305.3	306.7	305.3	305.3	303.8	305.3	303.8	303.8	300.9	302.3	302.3
52.5°	267.1	267.1	264.2	264.2	264.2	262.7	262.7	262.7	261.2	261.2	258.3
55°	230.4	230.4	227.5	227.5	226.0	224.5	223.1	223.1	218.7	218.7	214.3
57.5°	196.7	195.2	190.8	190.8	187.8	186.4	184.9	183.4	180.5	177.6	176.1
60°	165.8	162.9	160.0	158.5	155.6	152.6	149.7	146.8	143.8	142.4	140.9
62.5°	136.5	132.1	129.1	127.7	124.7	120.3	117.4	114.5	111.5	110.1	107.1
65°	110.1	105.7	101.3	99.8	96.9	93.9	89.5	86.6	83.7	82.2	82.2
67.5°	86.6	82.2	76.3	76.3	73.4	70.4	67.5	64.6	63.1	64.6	64.6
70°	64.6	61.6	57.2	55.8	52.8	49.9	48.4	48.4	48.4	49.9	48.4
72.5°	48.4	44.0	41.1	39.6	38.2	36.7	36.7	36.7	35.2	36.7	36.7
75°	33.8	30.8	27.9	27.9	26.4	26.4	26.4	26.4	26.4	26.4	26.4
77.5°	23.5	20.5	19.1	19.1	19.1	17.6	17.6	17.6	17.6	17.6	17.6
80°	14.7	14.7	13.2	13.2	11.7	11.7	11.7	11.7	11.7	11.7	11.7
82.5°	8.8	8.8	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	4.4	4.4	4.4	4.4	4.4	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	1.5	1.5	1.5	1.5	1.5	2.9	2.9	2.9	2.9	2.9	2.9
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: P252491

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6	1056.6
2.5°	1043.4	1047.8	1042.0	1046.4	1044.9	1043.4	1040.5	1046.4
5°	1025.8	1027.3	1021.4	1027.3	1025.8	1022.9	1020.0	1025.8
7.5°	1000.9	1005.3	997.9	1003.8	1002.3	999.4	996.5	1002.3
10°	973.0	977.4	971.5	975.9	975.9	973.0	968.6	974.5
12.5°	942.2	945.1	939.2	945.1	943.6	940.7	939.2	943.6
15°	908.4	912.8	907.0	911.4	909.9	908.4	907.0	911.4
17.5°	871.7	876.1	871.7	876.1	876.1	871.7	870.3	873.2
20°	835.0	838.0	833.6	838.0	836.5	836.5	833.6	838.0
22.5°	794.0	798.4	795.4	798.4	796.9	796.9	795.4	798.4
25°	752.9	757.3	752.9	757.3	755.8	755.8	752.9	760.2
27.5°	711.8	714.7	710.3	716.2	714.7	711.8	713.2	714.7
30°	667.7	670.7	667.7	672.1	672.1	672.1	669.2	672.1
32.5°	623.7	628.1	623.7	628.1	626.7	626.7	625.2	628.1
35°	579.7	581.2	578.2	582.6	582.6	584.1	581.2	585.6
37.5°	534.2	535.7	534.2	535.7	538.6	534.2	537.1	538.6
40°	487.2	490.2	488.7	490.2	490.2	491.6	490.2	491.6
42.5°	440.3	443.2	440.3	444.7	443.2	443.2	444.7	444.7
45°	391.8	396.2	393.3	396.2	397.7	396.2	396.2	399.2
47.5°	346.3	349.3	347.8	349.3	349.3	349.3	349.3	352.2
50°	300.9	302.3	302.3	303.8	303.8	305.3	302.3	303.8
52.5°	255.4	258.3	258.3	258.3	256.8	258.3	258.3	258.3
55°	214.3	215.7	212.8	215.7	215.7	214.3	214.3	217.2
57.5°	174.6	174.6	174.6	174.6	174.6	173.2	174.6	174.6
60°	138.0	139.4	138.0	138.0	138.0	138.0	136.5	139.4
62.5°	107.1	107.1	105.7	107.1	107.1	107.1	108.6	108.6
65°	83.7	85.1	83.7	85.1	85.1	85.1	85.1	86.6
67.5°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
70°	49.9	49.9	49.9	51.4	49.9	49.9	49.9	51.4
72.5°	36.7	36.7	36.7	36.7	36.7	36.7	38.2	38.2
75°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
77.5°	17.6	17.6	17.6	19.1	17.6	19.1	17.6	17.6
80°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5
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)