

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: P252693

Luminaire Tested: **LD6B30D010 EU6B30509027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252693
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 EU6B30509027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2266.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

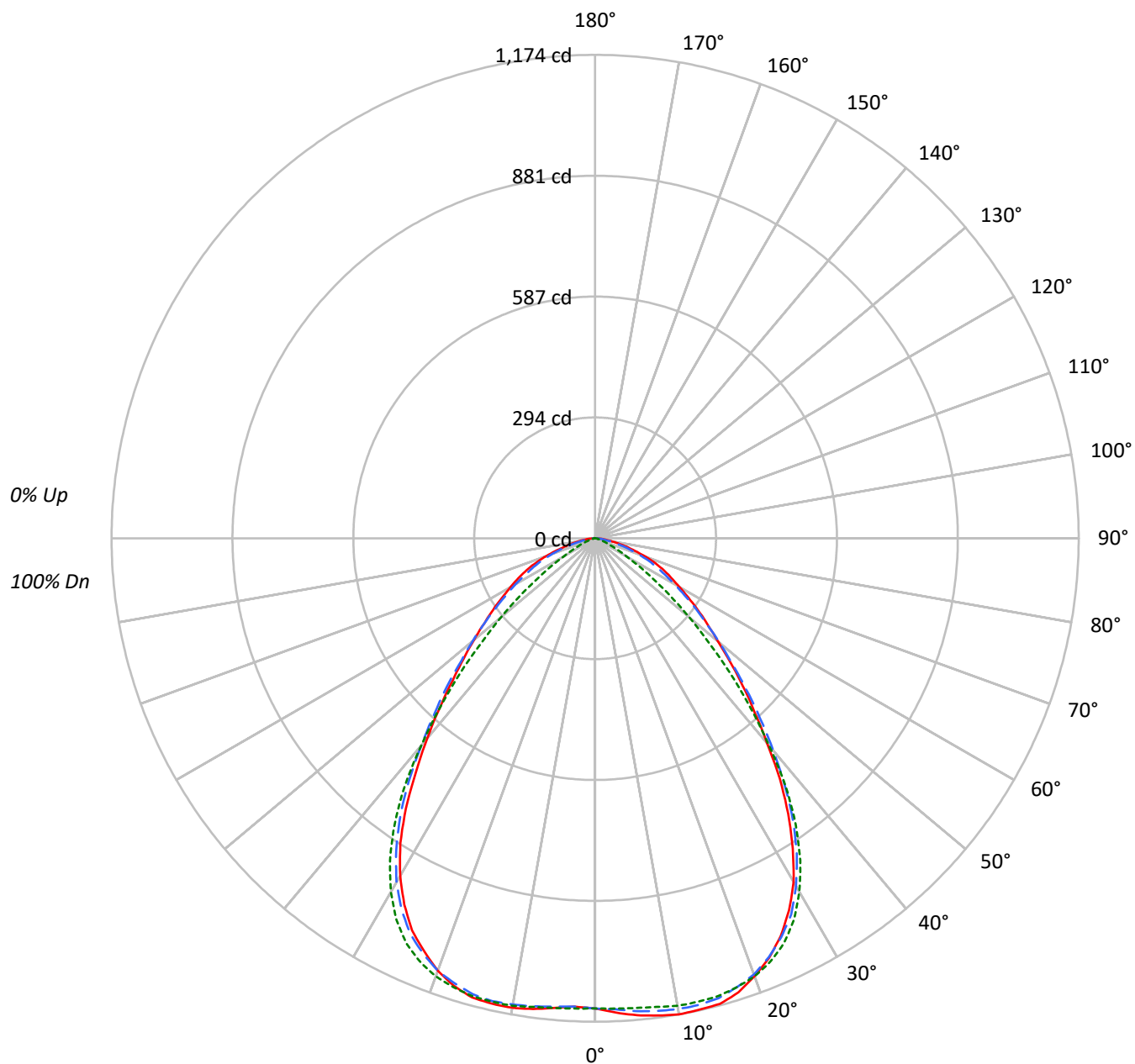
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	111	107	104	101	109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75	93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65	87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58	80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52	75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47	70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42	66	54	47	42		53	47	42		52	46	42		51	45	41
9	63	51	43	38	62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35	58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	74485	74485	74485
5°	76145	74979	74979
10°	77774	76383	76701
15°	79071	77761	77984
20°	78592	78592	77578
25°	76722	78111	75671
30°	72621	74693	71288
35°	65077	67650	63787
40°	55281	55971	53910
45°	46778	42755	45145
50°	39502	30155	39005
55°	34715	19473	34351
60°	30767	11587	30976
65°	28420	6978	28420
70°	24645	4006	24035
75°	19535	2445	18326
80°	14577	1803	13939
85°	13324	1198	12052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	4.9
10°-20°	325.3	14.4
20°-30°	489.2	21.6
30°-40°	514.4	22.7
40°-50°	384.3	17.0
50°-60°	239.2	10.6
60°-70°	136.1	6.0
70°-80°	56.0	2.5
80°-90°	11.6	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°	924.5	40.8
0°-40°	1438.8	63.5
0°-60°	2062.3	91.0
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1142	1142	1142	1142	1142	
5°	1163	1153	1145	1142	1145	111
15°	1171	1156	1151	1146	1155	329
25°	1066	1069	1085	1061	1051	488
35°	817	838	849	825	801	507
45°	507	518	463	509	489	393
55°	305	299	171	294	302	275
65°	184	165	45	165	184	181
75°	78	61	10	60	73	84
85°	18	11	2	10	16	20
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°	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1153.0	1151.3	1153.0	1149.7	1148.1	1148.1	1149.7	1146.5	1144.9	1146.5	1144.9
5°	1162.7	1159.4	1161.0	1159.4	1156.2	1156.2	1157.8	1153.0	1153.0	1154.6	1153.0
7.5°	1169.1	1169.1	1169.1	1165.9	1164.3	1162.7	1165.9	1161.0	1159.4	1159.4	1157.8
10°	1174.0	1172.3	1174.0	1170.7	1167.5	1165.9	1169.1	1165.9	1162.7	1165.9	1161.0
12.5°	1172.3	1172.3	1172.3	1170.7	1167.5	1165.9	1169.1	1164.3	1162.7	1164.3	1161.0
15°	1170.7	1165.9	1167.5	1165.9	1161.0	1161.0	1162.7	1157.8	1154.6	1159.4	1156.2
17.5°	1156.2	1153.0	1154.6	1151.3	1148.1	1146.5	1148.1	1146.5	1143.3	1146.5	1143.3
20°	1132.0	1132.0	1133.6	1130.4	1127.1	1125.5	1128.7	1125.5	1122.3	1127.1	1127.1
22.5°	1102.9	1102.9	1102.9	1101.3	1099.7	1099.7	1099.7	1098.1	1096.4	1099.7	1101.3
25°	1065.8	1064.1	1065.8	1067.4	1065.8	1064.1	1065.8	1065.8	1062.5	1069.0	1069.0
27.5°	1018.9	1018.9	1022.2	1020.5	1020.5	1018.9	1022.2	1022.2	1020.5	1025.4	1030.2
30°	964.0	960.8	964.0	964.0	965.6	965.6	967.3	967.3	967.3	972.1	975.3
32.5°	893.0	894.6	899.4	897.8	896.2	901.1	901.1	904.3	905.9	909.1	910.7
35°	817.1	818.7	818.7	820.3	823.5	820.3	828.4	826.8	828.4	834.8	838.1
37.5°	736.3	731.5	739.6	736.3	738.0	738.0	741.2	742.8	747.6	755.7	755.7
40°	649.1	650.8	654.0	655.6	657.2	657.2	657.2	662.1	663.7	673.4	671.8
42.5°	573.3	573.3	576.5	578.1	578.1	578.1	578.1	582.9	586.2	589.4	592.6
45°	507.0	502.2	505.4	505.4	508.7	507.0	510.3	513.5	515.1	520.0	518.3
47.5°	444.1	442.5	444.1	445.7	444.1	445.7	447.3	448.9	450.5	450.5	450.5
50°	389.2	389.2	390.8	392.4	392.4	392.4	392.4	394.0	394.0	397.2	394.0
52.5°	344.0	345.6	345.6	344.0	345.6	345.6	347.2	347.2	345.6	345.6	340.7
55°	305.2	303.6	305.2	303.6	305.2	305.2	303.6	303.6	302.0	300.4	298.7
57.5°	268.1	268.1	268.1	268.1	266.4	268.1	266.4	264.8	264.8	261.6	256.8
60°	235.8	235.8	235.8	235.8	235.8	234.1	235.8	234.1	230.9	227.7	221.2
62.5°	208.3	206.7	208.3	206.7	206.7	205.1	205.1	203.5	200.2	197.0	190.5
65°	184.1	185.7	184.1	184.1	182.5	180.9	180.9	179.2	174.4	171.2	164.7
67.5°	158.2	156.6	156.6	156.6	155.0	155.0	155.0	151.8	148.6	143.7	137.3
70°	129.2	129.2	129.2	127.6	127.6	126.0	126.0	124.3	121.1	117.9	109.8
72.5°	101.7	101.7	101.7	98.5	100.1	98.5	98.5	95.3	93.7	88.8	84.0
75°	77.5	77.5	75.9	75.9	74.3	72.7	72.7	71.1	69.4	66.2	61.4
77.5°	56.5	56.5	56.5	54.9	53.3	51.7	51.7	50.1	48.4	46.8	43.6
80°	38.8	38.8	38.8	38.8	37.1	35.5	35.5	33.9	33.9	32.3	29.1
82.5°	25.8	25.8	25.8	25.8	24.2	24.2	24.2	22.6	21.0	21.0	17.8
85°	17.8	17.8	16.1	16.1	16.1	16.1	14.5	14.5	12.9	11.3	11.3
87.5°	9.7	9.7	9.7	9.7	8.1	8.1	8.1	8.1	6.5	6.5	4.8
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°	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1149.7	1149.7	1148.1	1143.3	1144.9	1143.3	1144.9	1143.3	1138.4	1143.3	1138.4
5°	1156.2	1157.8	1154.6	1148.1	1149.7	1148.1	1148.1	1146.5	1141.7	1144.9	1141.7
7.5°	1162.7	1161.0	1159.4	1153.0	1154.6	1153.0	1153.0	1149.7	1144.9	1148.1	1143.3
10°	1165.9	1165.9	1162.7	1156.2	1156.2	1154.6	1156.2	1154.6	1148.1	1153.0	1149.7
12.5°	1165.9	1164.3	1164.3	1156.2	1157.8	1156.2	1157.8	1154.6	1149.7	1153.0	1151.3
15°	1161.0	1161.0	1159.4	1151.3	1153.0	1153.0	1154.6	1151.3	1146.5	1151.3	1148.1
17.5°	1151.3	1151.3	1149.7	1143.3	1146.5	1146.5	1148.1	1144.9	1140.0	1143.3	1143.3
20°	1132.0	1133.6	1133.6	1128.7	1132.0	1132.0	1133.6	1132.0	1130.4	1132.0	1128.7
22.5°	1109.4	1112.6	1112.6	1107.7	1111.0	1111.0	1115.8	1114.2	1111.0	1112.6	1111.0
25°	1075.5	1078.7	1081.9	1078.7	1081.9	1081.9	1086.8	1085.1	1081.9	1085.1	1080.3
27.5°	1036.7	1038.3	1041.5	1038.3	1043.2	1041.5	1046.4	1044.8	1039.9	1044.8	1043.2
30°	981.8	988.3	993.1	988.3	993.1	993.1	996.3	994.7	993.1	991.5	991.5
32.5°	920.4	926.9	926.9	925.3	928.5	928.5	930.1	926.9	925.3	926.9	928.5
35°	844.5	847.8	851.0	849.4	851.0	852.6	851.0	852.6	847.8	849.4	849.4
37.5°	762.2	765.4	765.4	760.6	763.8	763.8	760.6	760.6	757.3	760.6	754.1
40°	675.0	671.8	673.4	670.1	666.9	666.9	665.3	658.8	655.6	657.2	658.8
42.5°	589.4	589.4	584.6	576.5	568.4	568.4	563.6	560.3	553.9	557.1	555.5
45°	516.7	508.7	502.2	489.3	484.4	481.2	473.1	465.1	461.8	463.4	461.8
47.5°	447.3	440.8	424.7	406.9	402.1	397.2	387.6	377.9	374.6	371.4	371.4
50°	389.2	377.9	360.1	340.7	332.6	324.6	311.7	302.0	295.5	297.1	297.1
52.5°	335.9	323.0	302.0	277.7	268.1	258.4	247.1	235.8	230.9	229.3	229.3
55°	289.0	274.5	253.5	226.1	218.0	206.7	192.2	179.2	172.8	171.2	174.4
57.5°	247.1	234.1	209.9	182.5	172.8	161.5	146.9	135.6	127.6	126.0	127.6
60°	213.2	195.4	174.4	148.6	135.6	126.0	109.8	100.1	92.0	88.8	90.4
62.5°	179.2	163.1	142.1	116.3	106.6	96.9	82.4	71.1	64.6	63.0	64.6
65°	153.4	137.3	117.9	95.3	85.6	75.9	63.0	51.7	46.8	45.2	46.8
67.5°	127.6	113.0	96.9	75.9	67.8	59.7	46.8	38.8	32.3	30.7	32.3
70°	103.3	90.4	74.3	59.7	51.7	45.2	35.5	27.5	22.6	21.0	22.6
72.5°	77.5	67.8	56.5	43.6	38.8	33.9	25.8	19.4	16.1	14.5	16.1
75°	56.5	48.4	40.4	30.7	27.5	24.2	17.8	12.9	11.3	9.7	11.3
77.5°	38.8	33.9	27.5	21.0	17.8	16.1	11.3	9.7	8.1	6.5	6.5
80°	25.8	22.6	17.8	14.5	12.9	11.3	8.1	6.5	4.8	4.8	4.8
82.5°	16.1	12.9	11.3	8.1	6.5	6.5	4.8	3.2	3.2	3.2	3.2
85°	9.7	8.1	6.5	4.8	3.2	3.2	1.6	1.6	1.6	1.6	1.6
87.5°	4.8	3.2	3.2	1.6	1.6	1.6	1.6	1.6	0.0	0.0	1.6
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°	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1141.7	1138.4	1138.4	1140.0	1141.7	1143.3	1140.0	1138.4	1138.4	1143.3	1140.0
5°	1141.7	1140.0	1140.0	1140.0	1143.3	1144.9	1141.7	1140.0	1141.7	1146.5	1144.9
7.5°	1146.5	1143.3	1144.9	1144.9	1146.5	1149.7	1146.5	1144.9	1146.5	1151.3	1148.1
10°	1149.7	1146.5	1148.1	1146.5	1151.3	1153.0	1149.7	1148.1	1149.7	1156.2	1154.6
12.5°	1151.3	1149.7	1149.7	1148.1	1153.0	1154.6	1151.3	1149.7	1151.3	1156.2	1154.6
15°	1148.1	1146.5	1146.5	1146.5	1149.7	1153.0	1148.1	1146.5	1146.5	1151.3	1149.7
17.5°	1141.7	1138.4	1138.4	1138.4	1140.0	1141.7	1136.8	1135.2	1133.6	1138.4	1136.8
20°	1130.4	1127.1	1123.9	1123.9	1125.5	1125.5	1122.3	1117.4	1117.4	1119.1	1115.8
22.5°	1109.4	1107.7	1104.5	1102.9	1106.1	1104.5	1098.1	1093.2	1091.6	1093.2	1090.0
25°	1080.3	1077.1	1075.5	1073.8	1075.5	1073.8	1067.4	1060.9	1060.9	1060.9	1056.1
27.5°	1039.9	1036.7	1035.1	1035.1	1036.7	1033.5	1027.0	1020.5	1017.3	1017.3	1012.5
30°	988.3	988.3	986.6	985.0	983.4	983.4	973.7	967.3	964.0	965.6	962.4
32.5°	925.3	923.7	922.0	917.2	918.8	917.2	909.1	904.3	899.4	896.2	894.6
35°	844.5	844.5	842.9	842.9	842.9	841.3	833.2	828.4	825.2	823.5	818.7
37.5°	755.7	754.1	752.5	752.5	752.5	752.5	747.6	742.8	742.8	741.2	738.0
40°	655.6	657.2	658.8	657.2	662.1	666.9	660.5	657.2	655.6	660.5	654.0
42.5°	558.7	557.1	565.2	566.8	566.8	574.9	576.5	578.1	576.5	579.7	579.7
45°	465.1	463.4	471.5	474.7	482.8	492.5	497.4	505.4	508.7	511.9	508.7
47.5°	376.2	382.7	389.2	397.2	403.7	419.8	429.5	437.6	440.8	445.7	445.7
50°	302.0	308.4	319.7	326.2	334.3	353.6	369.8	381.1	387.6	392.4	390.8
52.5°	232.5	243.8	258.4	264.8	276.1	298.7	316.5	329.4	337.5	342.3	344.0
55°	179.2	188.9	203.5	213.2	224.5	248.7	271.3	285.8	293.9	300.4	303.6
57.5°	132.4	143.7	159.9	167.9	180.9	208.3	227.7	245.4	255.1	263.2	264.8
60°	96.9	108.2	122.7	132.4	145.3	172.8	195.4	211.5	222.8	229.3	232.5
62.5°	69.4	80.7	95.3	105.0	116.3	140.5	163.1	179.2	190.5	198.6	203.5
65°	50.1	61.4	75.9	84.0	93.7	116.3	137.3	153.4	164.7	174.4	177.6
67.5°	37.1	45.2	58.1	66.2	75.9	93.7	111.4	126.0	137.3	145.3	148.6
70°	27.5	33.9	45.2	50.1	56.5	72.7	87.2	100.1	109.8	116.3	119.5
72.5°	19.4	24.2	32.3	37.1	42.0	54.9	66.2	75.9	82.4	88.8	92.0
75°	12.9	16.1	22.6	25.8	29.1	38.8	46.8	54.9	59.7	64.6	66.2
77.5°	8.1	11.3	16.1	17.8	21.0	25.8	32.3	37.1	40.4	43.6	46.8
80°	4.8	6.5	9.7	11.3	12.9	17.8	21.0	24.2	27.5	30.7	32.3
82.5°	3.2	4.8	6.5	6.5	8.1	9.7	12.9	16.1	17.8	19.4	21.0
85°	1.6	1.6	3.2	3.2	4.8	4.8	6.5	8.1	9.7	11.3	12.9
87.5°	1.6	1.6	1.6	1.6	3.2	3.2	4.8	4.8	4.8	6.5	6.5
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: P252693

CATALOG NUMBER: LD6B30D010 EU6B30509027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1136.8	1141.7	1136.8	1140.0	1138.4	1138.4	1136.8	1138.4
5°	1141.7	1148.1	1141.7	1146.5	1143.3	1143.3	1143.3	1144.9
7.5°	1146.5	1153.0	1148.1	1153.0	1151.3	1149.7	1149.7	1153.0
10°	1151.3	1156.2	1153.0	1157.8	1156.2	1154.6	1154.6	1157.8
12.5°	1151.3	1157.8	1154.6	1159.4	1157.8	1156.2	1156.2	1157.8
15°	1146.5	1154.6	1149.7	1154.6	1153.0	1151.3	1151.3	1154.6
17.5°	1132.0	1138.4	1135.2	1138.4	1138.4	1136.8	1138.4	1140.0
20°	1112.6	1117.4	1114.2	1117.4	1117.4	1114.2	1115.8	1117.4
22.5°	1085.1	1090.0	1086.8	1090.0	1088.4	1086.8	1086.8	1085.1
25°	1051.2	1057.7	1052.8	1056.1	1052.8	1049.6	1049.6	1051.2
27.5°	1009.2	1014.1	1007.6	1010.9	1007.6	1004.4	1004.4	1002.8
30°	954.3	956.0	951.1	954.3	951.1	949.5	946.3	946.3
32.5°	888.1	889.8	884.9	884.9	881.7	881.7	875.2	880.1
35°	810.6	812.2	810.6	809.0	804.2	802.6	800.9	800.9
37.5°	729.9	729.9	725.0	723.4	720.2	717.0	718.6	713.7
40°	647.5	645.9	641.1	642.7	641.1	636.2	634.6	633.0
42.5°	570.0	570.0	565.2	566.8	563.6	561.9	557.1	558.7
45°	502.2	502.2	497.4	497.4	495.7	490.9	492.5	489.3
47.5°	440.8	440.8	439.2	439.2	434.4	432.8	432.8	432.8
50°	387.6	387.6	387.6	387.6	385.9	384.3	382.7	384.3
52.5°	342.3	345.6	344.0	344.0	342.3	340.7	339.1	339.1
55°	302.0	303.6	303.6	305.2	303.6	302.0	303.6	302.0
57.5°	266.4	269.7	269.7	269.7	269.7	269.7	268.1	266.4
60°	235.8	237.4	237.4	239.0	239.0	239.0	237.4	237.4
62.5°	205.1	208.3	209.9	209.9	211.5	209.9	209.9	209.9
65°	180.9	184.1	185.7	184.1	185.7	185.7	184.1	184.1
67.5°	151.8	155.0	155.0	155.0	155.0	156.6	155.0	155.0
70°	122.7	126.0	124.3	126.0	126.0	126.0	126.0	126.0
72.5°	93.7	95.3	96.9	96.9	98.5	96.9	96.9	96.9
75°	67.8	71.1	71.1	71.1	71.1	72.7	72.7	72.7
77.5°	48.4	50.1	50.1	51.7	51.7	51.7	51.7	53.3
80°	33.9	33.9	35.5	35.5	37.1	37.1	37.1	37.1
82.5°	22.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2
85°	12.9	14.5	14.5	14.5	14.5	16.1	16.1	16.1
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	6.5	6.5
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)