

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: P252486

Luminaire Tested: **LD6B30D010 EU6B30509030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252486
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 EU6B30509030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2143.0 lumens
Efficiency: N/A
Efficacy: 76.5 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

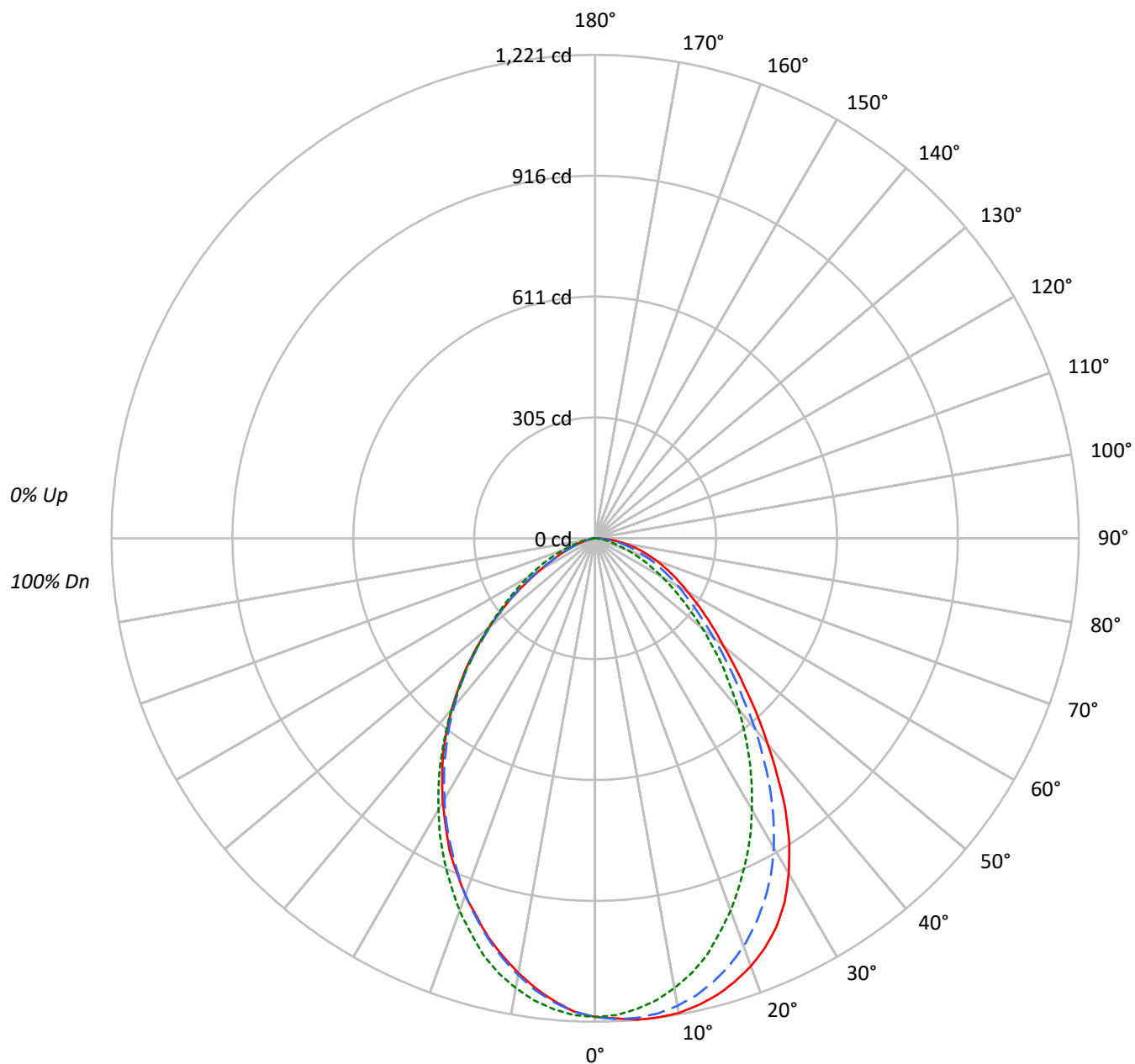
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252486

CATALOG NUMBER: LD6B30D010 EU6B30509030 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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	103	100	108	105	101	99		100	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		90	86	82			87	84	80			84
3	95	86	79	73	93	84	78	73		81	76	71			79	74	70			76
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	63	50	43	38	61	50	43	38		49	42	37			48	42	37			47
10	59	47	39	35	58	46	39	35		45	39	34			44	38	34			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	78876	78876	78876
5°	79943	78188	76865
10°	80649	76423	73859
15°	80638	73607	70426
20°	79856	69483	66567
25°	77960	64787	62613
30°	73623	59581	57931
35°	66734	54031	53362
40°	57632	48050	47906
45°	49417	41833	42137
50°	42943	35788	35280
55°	38582	30176	28265
60°	35060	25418	20812
65°	32912	20995	15298
70°	31398	16328	11216
75°	30047	11847	7613
80°	28403	8190	5034
85°	25151	5015	2545



TEST NUMBER: P252486

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	5.3
10°-20°	309.7	14.5
20°-30°	430.0	20.1
30°-40°	445.4	20.8
40°-50°	366.0	17.1
50°-60°	251.5	11.7
60°-70°	144.6	6.7
70°-80°	66.5	3.1
80°-90°	16.2	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°	852.8	39.8
0°-40°	1298.2	60.6
0°-60°	1915.7	89.4
0°-90°	2143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1209	1209	1209	1209	1209	
5°	1221	1216	1194	1177	1174	116
15°	1194	1159	1090	1046	1043	336
25°	1083	1011	900	861	870	496
35°	838	769	678	658	670	520
45°	536	495	453	448	457	417
55°	339	307	265	250	248	305
65°	213	186	136	96	99	212
75°	119	94	47	30	30	126
85°	34	24	7	3	3	38
90°	0	0	0	0	0	



TEST NUMBER: P252486

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1214.0	1224.1	1217.4	1215.7	1219.0	1219.0	1219.0	1214.0	1217.4	1212.3	1215.7
5°	1220.7	1229.1	1222.4	1219.0	1222.4	1224.1	1219.0	1215.7	1220.7	1214.0	1215.7
7.5°	1220.7	1229.1	1222.4	1220.7	1222.4	1222.4	1220.7	1214.0	1217.4	1210.6	1210.6
10°	1217.4	1224.1	1217.4	1214.0	1215.7	1214.0	1214.0	1205.6	1207.3	1198.9	1198.9
12.5°	1207.3	1215.7	1207.3	1203.9	1203.9	1203.9	1198.9	1192.2	1193.9	1183.8	1182.1
15°	1193.9	1200.6	1192.2	1188.8	1188.8	1187.1	1183.8	1173.7	1173.7	1163.6	1158.6
17.5°	1173.7	1180.4	1173.7	1168.7	1167.0	1163.6	1160.3	1150.2	1146.8	1135.1	1130.1
20°	1150.2	1155.2	1148.5	1143.5	1140.1	1136.8	1130.1	1120.0	1116.6	1104.9	1096.5
22.5°	1120.0	1126.7	1116.6	1111.6	1108.2	1103.2	1096.5	1086.4	1081.4	1066.2	1056.2
25°	1083.0	1086.4	1078.0	1073.0	1066.2	1062.9	1057.8	1044.4	1039.4	1022.6	1010.8
27.5°	1036.0	1039.4	1029.3	1025.9	1017.5	1014.2	1007.5	995.7	989.0	972.2	960.5
30°	977.3	980.6	973.9	968.9	962.1	955.4	950.4	938.6	928.6	911.8	901.7
32.5°	911.8	916.8	910.1	903.4	891.6	893.3	884.9	873.1	864.7	849.6	837.9
35°	837.9	841.2	832.8	831.2	824.4	817.7	809.3	800.9	795.9	779.1	769.0
37.5°	755.6	764.0	755.6	748.9	745.5	740.5	735.5	723.7	720.3	710.3	696.8
40°	676.7	681.7	676.7	670.0	664.9	664.9	658.2	651.5	643.1	633.0	628.0
42.5°	606.2	602.8	601.1	597.8	591.1	589.4	587.7	579.3	574.3	564.2	555.8
45°	535.6	537.3	534.0	532.3	527.2	523.9	520.5	513.8	512.1	502.1	495.3
47.5°	476.9	475.2	471.8	471.8	468.5	465.1	461.8	456.7	455.0	446.6	439.9
50°	423.1	424.8	423.1	421.5	416.4	414.7	411.4	408.0	404.7	396.3	389.6
52.5°	379.5	377.8	376.1	376.1	371.1	369.4	366.0	362.7	359.3	350.9	345.9
55°	339.2	339.2	337.5	335.8	330.8	329.1	327.4	324.1	319.0	312.3	307.3
57.5°	302.2	302.2	300.6	298.9	295.5	295.5	292.2	288.8	285.5	278.7	272.0
60°	268.7	270.3	268.7	267.0	263.6	263.6	261.9	256.9	255.2	246.8	241.8
62.5°	240.1	240.1	240.1	238.4	236.8	233.4	233.4	228.4	225.0	220.0	213.2
65°	213.2	213.2	213.2	211.6	208.2	206.5	204.9	201.5	198.1	193.1	186.4
67.5°	188.1	188.1	188.1	186.4	183.0	181.3	179.7	178.0	172.9	167.9	161.2
70°	164.6	164.6	162.9	161.2	159.5	157.8	156.2	152.8	149.4	142.7	137.7
72.5°	141.0	141.0	141.0	137.7	136.0	136.0	132.7	131.0	127.6	120.9	115.9
75°	119.2	117.5	117.5	115.9	114.2	112.5	110.8	109.1	104.1	100.7	94.0
77.5°	97.4	97.4	95.7	94.0	94.0	92.4	90.7	87.3	85.6	80.6	75.6
80°	75.6	75.6	75.6	75.6	73.9	72.2	72.2	68.8	67.2	62.1	58.8
82.5°	57.1	55.4	55.4	55.4	53.7	52.1	52.1	50.4	48.7	45.3	42.0
85°	33.6	31.9	31.9	31.9	30.2	30.2	28.5	28.5	26.9	23.5	23.5
87.5°	10.1	10.1	11.8	11.8	10.1	10.1	10.1	10.1	10.1	8.4	8.4
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: P252486

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1212.3	1217.4	1210.6	1209.0	1215.7	1212.3	1210.6	1207.3	1209.0	1205.6	1200.6
5°	1210.6	1217.4	1209.0	1203.9	1212.3	1207.3	1203.9	1200.6	1200.6	1193.9	1190.5
7.5°	1205.6	1209.0	1200.6	1195.5	1200.6	1195.5	1192.2	1187.1	1185.5	1177.1	1172.0
10°	1192.2	1195.5	1185.5	1178.7	1183.8	1177.1	1172.0	1167.0	1163.6	1153.6	1146.8
12.5°	1173.7	1175.4	1163.6	1155.2	1158.6	1153.6	1145.2	1138.4	1135.1	1125.0	1116.6
15°	1148.5	1150.2	1136.8	1125.0	1128.4	1121.7	1111.6	1104.9	1099.8	1089.8	1078.0
17.5°	1118.3	1116.6	1101.5	1089.8	1091.4	1083.0	1073.0	1062.9	1056.2	1044.4	1036.0
20°	1084.7	1079.7	1062.9	1049.5	1051.1	1041.1	1029.3	1019.2	1010.8	1000.8	989.0
22.5°	1042.7	1036.0	1020.9	1004.1	1005.8	997.4	980.6	972.2	963.8	950.4	940.3
25°	997.4	987.3	972.2	955.4	955.4	945.3	931.9	921.8	913.4	900.0	888.3
27.5°	943.7	938.6	918.5	905.0	903.4	893.3	881.5	869.8	859.7	848.0	836.2
30°	884.9	876.5	861.4	846.3	842.9	834.5	822.8	809.3	802.6	790.9	780.8
32.5°	822.8	814.4	797.6	782.5	780.8	774.1	764.0	750.6	743.9	735.5	728.7
35°	752.2	748.9	732.1	720.3	720.3	713.6	703.6	691.8	686.8	678.4	670.0
37.5°	685.1	680.0	664.9	654.9	654.9	646.5	636.4	631.4	626.3	619.6	614.6
40°	614.6	611.2	599.4	589.4	591.1	584.3	577.6	570.9	567.5	564.2	559.1
42.5°	549.1	545.7	537.3	528.9	528.9	523.9	517.2	512.1	508.8	503.7	502.1
45°	490.3	485.3	478.6	470.2	470.2	465.1	461.8	458.4	456.7	453.4	448.3
47.5°	433.2	429.9	423.1	414.7	414.7	414.7	408.0	403.0	403.0	399.6	398.0
50°	384.5	379.5	374.4	367.7	367.7	364.4	359.3	354.3	354.3	352.6	349.3
52.5°	339.2	335.8	329.1	322.4	322.4	319.0	314.0	312.3	310.6	305.6	303.9
55°	300.6	297.2	292.2	283.8	282.1	280.4	275.4	272.0	270.3	265.3	265.3
57.5°	265.3	261.9	253.5	248.5	246.8	243.5	238.4	235.1	233.4	230.0	226.7
60°	235.1	230.0	223.3	216.6	214.9	211.6	206.5	203.2	201.5	194.8	191.4
62.5°	206.5	201.5	194.8	188.1	186.4	183.0	176.3	172.9	169.6	162.9	159.5
65°	179.7	174.6	167.9	161.2	157.8	156.2	149.4	144.4	141.0	136.0	129.3
67.5°	154.5	149.4	142.7	134.3	134.3	129.3	124.3	119.2	114.2	109.1	104.1
70°	131.0	125.9	119.2	112.5	110.8	107.5	102.4	95.7	92.4	85.6	80.6
72.5°	109.1	104.1	97.4	90.7	89.0	85.6	80.6	73.9	68.8	63.8	58.8
75°	89.0	84.0	77.2	72.2	70.5	67.2	62.1	55.4	50.4	47.0	42.0
77.5°	70.5	65.5	60.4	55.4	53.7	50.4	45.3	42.0	36.9	33.6	28.5
80°	53.7	50.4	45.3	42.0	40.3	36.9	33.6	28.5	25.2	21.8	20.1
82.5°	38.6	35.3	31.9	26.9	26.9	23.5	21.8	18.5	15.1	13.4	11.8
85°	21.8	18.5	16.8	15.1	13.4	13.4	11.8	10.1	8.4	6.7	6.7
87.5°	6.7	6.7	5.0	5.0	5.0	5.0	3.4	3.4	3.4	3.4	3.4
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: P252486

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1200.6	1202.3	1198.9	1202.3	1198.9	1200.6	1197.2	1200.6	1197.2	1200.6	1193.9
5°	1188.8	1188.8	1183.8	1187.1	1183.8	1185.5	1178.7	1180.4	1177.1	1180.4	1173.7
7.5°	1168.7	1170.3	1162.0	1165.3	1160.3	1160.3	1155.2	1156.9	1151.9	1153.6	1148.5
10°	1145.2	1143.5	1135.1	1138.4	1131.7	1131.7	1126.7	1126.7	1120.0	1121.7	1114.9
12.5°	1111.6	1109.9	1099.8	1103.2	1096.5	1096.5	1091.4	1091.4	1084.7	1088.1	1081.4
15°	1073.0	1071.3	1061.2	1062.9	1056.2	1056.2	1049.5	1051.1	1046.1	1049.5	1042.7
17.5°	1029.3	1027.6	1017.5	1019.2	1010.8	1012.5	1007.5	1005.8	1002.4	1004.1	999.1
20°	984.0	980.6	970.5	972.2	968.9	963.8	960.5	962.1	958.8	962.1	957.1
22.5°	937.0	930.2	921.8	921.8	918.5	918.5	913.4	916.8	910.1	915.1	911.8
25°	883.2	878.2	871.5	874.8	868.1	868.1	863.1	864.7	861.4	864.7	861.4
27.5°	831.2	827.8	817.7	821.1	816.1	817.7	812.7	814.4	812.7	816.1	812.7
30°	775.8	774.1	767.4	767.4	765.7	764.0	762.3	762.3	760.6	765.7	762.3
32.5°	723.7	718.7	711.9	717.0	708.6	713.6	710.3	713.6	710.3	713.6	711.9
35°	670.0	668.3	659.9	661.6	659.9	659.9	658.2	658.2	658.2	663.3	663.3
37.5°	612.9	611.2	606.2	607.8	604.5	602.8	602.8	606.2	606.2	609.5	609.5
40°	557.5	559.1	554.1	554.1	552.4	552.4	552.4	555.8	554.1	557.5	555.8
42.5°	502.1	502.1	497.0	498.7	497.0	498.7	498.7	502.1	502.1	503.7	502.1
45°	450.0	450.0	448.3	450.0	446.6	448.3	446.6	450.0	448.3	450.0	450.0
47.5°	398.0	398.0	398.0	396.3	396.3	396.3	396.3	396.3	394.6	398.0	396.3
50°	349.3	350.9	349.3	349.3	347.6	349.3	347.6	347.6	344.2	345.9	345.9
52.5°	305.6	305.6	302.2	302.2	302.2	300.6	300.6	300.6	298.9	298.9	295.5
55°	263.6	263.6	260.3	260.3	258.6	256.9	255.2	255.2	250.2	250.2	245.2
57.5°	225.0	223.3	218.3	218.3	214.9	213.2	211.6	209.9	206.5	203.2	201.5
60°	189.7	186.4	183.0	181.3	178.0	174.6	171.3	167.9	164.6	162.9	161.2
62.5°	156.2	151.1	147.8	146.1	142.7	137.7	134.3	131.0	127.6	125.9	122.6
65°	125.9	120.9	115.9	114.2	110.8	107.5	102.4	99.1	95.7	94.0	94.0
67.5°	99.1	94.0	87.3	87.3	84.0	80.6	77.2	73.9	72.2	73.9	73.9
70°	73.9	70.5	65.5	63.8	60.4	57.1	55.4	55.4	55.4	57.1	55.4
72.5°	55.4	50.4	47.0	45.3	43.7	42.0	42.0	42.0	40.3	42.0	42.0
75°	38.6	35.3	31.9	31.9	30.2	30.2	30.2	30.2	30.2	30.2	30.2
77.5°	26.9	23.5	21.8	21.8	21.8	20.1	20.1	20.1	20.1	20.1	20.1
80°	16.8	16.8	15.1	15.1	13.4	13.4	13.4	13.4	13.4	13.4	13.4
82.5°	10.1	10.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85°	5.0	5.0	5.0	5.0	5.0	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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: P252486

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1193.9	1198.9	1192.2	1197.2	1195.5	1193.9	1190.5	1197.2
5°	1173.7	1175.4	1168.7	1175.4	1173.7	1170.3	1167.0	1173.7
7.5°	1145.2	1150.2	1141.8	1148.5	1146.8	1143.5	1140.1	1146.8
10°	1113.3	1118.3	1111.6	1116.6	1116.6	1113.3	1108.2	1114.9
12.5°	1078.0	1081.4	1074.6	1081.4	1079.7	1076.3	1074.6	1079.7
15°	1039.4	1044.4	1037.7	1042.7	1041.1	1039.4	1037.7	1042.7
17.5°	997.4	1002.4	997.4	1002.4	1002.4	997.4	995.7	999.1
20°	955.4	958.8	953.7	958.8	957.1	957.1	953.7	958.8
22.5°	908.4	913.4	910.1	913.4	911.8	911.8	910.1	913.4
25°	861.4	866.4	861.4	866.4	864.7	864.7	861.4	869.8
27.5°	814.4	817.7	812.7	819.4	817.7	814.4	816.1	817.7
30°	764.0	767.4	764.0	769.0	769.0	769.0	765.7	769.0
32.5°	713.6	718.7	713.6	718.7	717.0	717.0	715.3	718.7
35°	663.3	664.9	661.6	666.6	666.6	668.3	664.9	670.0
37.5°	611.2	612.9	611.2	612.9	616.2	611.2	614.6	616.2
40°	557.5	560.8	559.1	560.8	560.8	562.5	560.8	562.5
42.5°	503.7	507.1	503.7	508.8	507.1	507.1	508.8	508.8
45°	448.3	453.4	450.0	453.4	455.0	453.4	453.4	456.7
47.5°	396.3	399.6	398.0	399.6	399.6	399.6	399.6	403.0
50°	344.2	345.9	345.9	347.6	347.6	349.3	345.9	347.6
52.5°	292.2	295.5	295.5	295.5	293.8	295.5	295.5	295.5
55°	245.2	246.8	243.5	246.8	246.8	245.2	245.2	248.5
57.5°	199.8	199.8	199.8	199.8	199.8	198.1	199.8	199.8
60°	157.8	159.5	157.8	157.8	157.8	157.8	156.2	159.5
62.5°	122.6	122.6	120.9	122.6	122.6	122.6	124.3	124.3
65°	95.7	97.4	95.7	97.4	97.4	97.4	97.4	99.1
67.5°	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
70°	57.1	57.1	57.1	58.8	57.1	57.1	57.1	58.8
72.5°	42.0	42.0	42.0	42.0	42.0	42.0	43.7	43.7
75°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
77.5°	20.1	20.1	20.1	21.8	20.1	21.8	20.1	20.1
80°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7
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)