

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: P252687

Luminaire Tested: **LD6B30D010 EU6B30508027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252687
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 EU6B30508027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2639.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

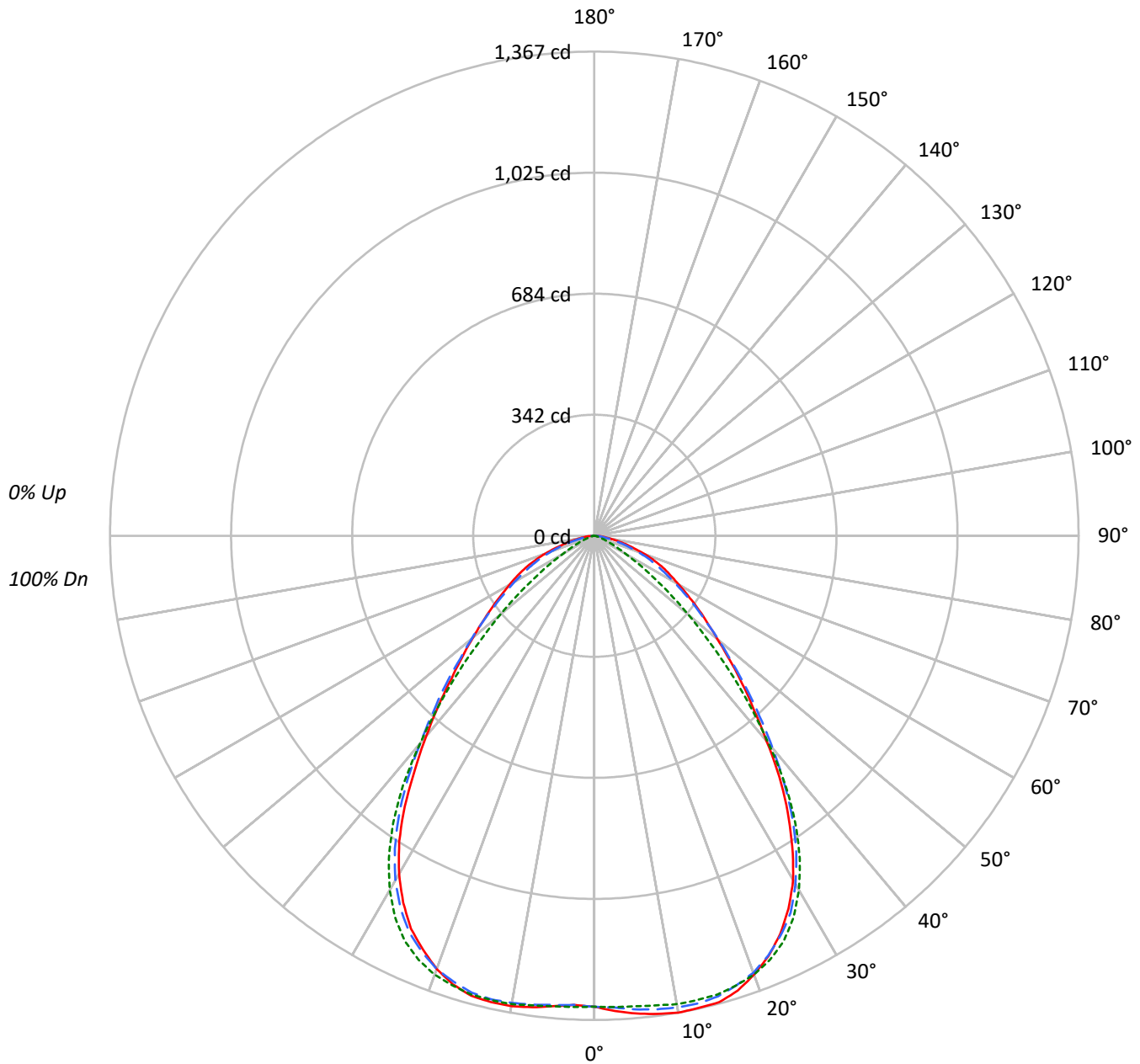
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	86744	86744	86744
5°	88673	87318	87318
10°	90573	88950	89328
15°	92087	90567	90817
20°	91526	91526	90353
25°	89348	90975	88131
30°	84577	86987	83017
35°	75789	78784	74292
40°	64385	65186	62784
45°	54482	49795	52572
50°	45998	35118	45430
55°	40424	22669	40004
60°	35830	13492	36065
65°	33097	8135	33097
70°	28689	4654	27983
75°	22762	2848	21325
80°	16944	2104	16268
85°	15495	1422	14073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	4.9
10°-20°	378.8	14.4
20°-30°	569.8	21.6
30°-40°	599.1	22.7
40°-50°	447.5	17.0
50°-60°	278.6	10.6
60°-70°	158.4	6.0
70°-80°	65.3	2.5
80°-90°	13.5	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°	1076.6	40.8
0°-40°	1675.7	63.5
0°-60°	2401.8	91.0
0°-90°	2639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1330	1330	1330	1330	1330	
5°	1354	1343	1333	1330	1333	130
15°	1363	1346	1341	1335	1345	383
25°	1241	1245	1264	1236	1224	568
35°	952	976	989	961	933	591
45°	590	604	540	592	570	458
55°	355	348	199	342	352	320
65°	214	192	53	192	214	211
75°	90	72	11	70	85	98
85°	21	13	2	11	19	23
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°	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6
2.5°	1342.7	1340.9	1342.7	1339.0	1337.1	1337.1	1339.0	1335.2	1333.3	1335.2	1333.3
5°	1354.0	1350.3	1352.2	1350.3	1346.5	1346.5	1348.4	1342.7	1342.7	1344.6	1342.7
7.5°	1361.6	1361.6	1361.6	1357.8	1355.9	1354.0	1357.8	1352.2	1350.3	1350.3	1348.4
10°	1367.2	1365.3	1367.2	1363.4	1359.7	1357.8	1361.6	1357.8	1354.0	1357.8	1352.2
12.5°	1365.3	1365.3	1365.3	1363.4	1359.7	1357.8	1361.6	1355.9	1354.0	1355.9	1352.2
15°	1363.4	1357.8	1359.7	1357.8	1352.2	1352.2	1354.0	1348.4	1344.6	1350.3	1346.5
17.5°	1346.5	1342.7	1344.6	1340.9	1337.1	1335.2	1337.1	1335.2	1331.5	1335.2	1331.5
20°	1318.3	1318.3	1320.2	1316.4	1312.7	1310.8	1314.5	1310.8	1307.0	1312.7	1312.7
22.5°	1284.5	1284.5	1284.5	1282.6	1280.7	1280.7	1280.7	1278.8	1276.9	1280.7	1282.6
25°	1241.2	1239.3	1241.2	1243.1	1241.2	1239.3	1241.2	1241.2	1237.4	1245.0	1245.0
27.5°	1186.7	1186.7	1190.4	1188.5	1188.5	1186.7	1190.4	1190.4	1188.5	1194.2	1199.8
30°	1122.7	1119.0	1122.7	1122.7	1124.6	1124.6	1126.5	1126.5	1126.5	1132.1	1135.9
32.5°	1040.0	1041.9	1047.5	1045.6	1043.7	1049.4	1049.4	1053.1	1055.0	1058.8	1060.7
35°	951.6	953.5	953.5	955.3	959.1	955.3	964.7	962.9	964.7	972.3	976.0
37.5°	857.6	851.9	861.3	857.6	859.4	859.4	863.2	865.1	870.7	880.1	880.1
40°	756.0	757.9	761.6	763.5	765.4	765.4	765.4	771.0	772.9	784.2	782.3
42.5°	667.6	667.6	671.4	673.3	673.3	673.3	673.3	678.9	682.7	686.4	690.2
45°	590.5	584.9	588.6	588.6	592.4	590.5	594.3	598.0	599.9	605.6	603.7
47.5°	517.2	515.3	517.2	519.0	517.2	519.0	520.9	522.8	524.7	524.7	524.7
50°	453.2	453.2	455.1	457.0	457.0	457.0	457.0	458.9	458.9	462.6	458.9
52.5°	400.6	402.4	402.4	400.6	402.4	402.4	404.3	404.3	402.4	402.4	396.8
55°	355.4	353.6	355.4	353.6	355.4	355.4	353.6	353.6	351.7	349.8	347.9
57.5°	312.2	312.2	312.2	312.2	310.3	312.2	310.3	308.4	308.4	304.7	299.0
60°	274.6	274.6	274.6	274.6	274.6	272.7	274.6	272.7	268.9	265.2	257.6
62.5°	242.6	240.7	242.6	240.7	240.7	238.8	238.8	237.0	233.2	229.4	221.9
65°	214.4	216.3	214.4	214.4	212.5	210.6	210.6	208.7	203.1	199.3	191.8
67.5°	184.3	182.4	182.4	182.4	180.5	180.5	180.5	176.8	173.0	167.4	159.9
70°	150.4	150.4	150.4	148.6	148.6	146.7	146.7	144.8	141.0	137.3	127.9
72.5°	118.5	118.5	118.5	114.7	116.6	114.7	114.7	111.0	109.1	103.4	97.8
75°	90.3	90.3	88.4	88.4	86.5	84.6	84.6	82.7	80.9	77.1	71.5
77.5°	65.8	65.8	65.8	63.9	62.1	60.2	60.2	58.3	56.4	54.5	50.8
80°	45.1	45.1	45.1	45.1	43.3	41.4	41.4	39.5	39.5	37.6	33.9
82.5°	30.1	30.1	30.1	30.1	28.2	28.2	28.2	26.3	24.4	24.4	20.7
85°	20.7	20.7	18.8	18.8	18.8	18.8	16.9	16.9	15.0	13.2	13.2
87.5°	11.3	11.3	11.3	11.3	9.4	9.4	9.4	9.4	7.5	7.5	5.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6
2.5°	1339.0	1339.0	1337.1	1331.5	1333.3	1331.5	1333.3	1331.5	1325.8	1331.5	1325.8
5°	1346.5	1348.4	1344.6	1337.1	1339.0	1337.1	1337.1	1335.2	1329.6	1333.3	1329.6
7.5°	1354.0	1352.2	1350.3	1342.7	1344.6	1342.7	1342.7	1339.0	1333.3	1337.1	1331.5
10°	1357.8	1357.8	1354.0	1346.5	1346.5	1344.6	1346.5	1344.6	1337.1	1342.7	1339.0
12.5°	1357.8	1355.9	1355.9	1346.5	1348.4	1346.5	1348.4	1344.6	1339.0	1342.7	1340.9
15°	1352.2	1352.2	1350.3	1340.9	1342.7	1342.7	1344.6	1340.9	1335.2	1340.9	1337.1
17.5°	1340.9	1340.9	1339.0	1331.5	1335.2	1335.2	1337.1	1333.3	1327.7	1331.5	1331.5
20°	1318.3	1320.2	1320.2	1314.5	1318.3	1318.3	1320.2	1318.3	1316.4	1318.3	1314.5
22.5°	1292.0	1295.7	1295.7	1290.1	1293.9	1293.9	1299.5	1297.6	1293.9	1295.7	1293.9
25°	1252.5	1256.2	1260.0	1256.2	1260.0	1260.0	1265.6	1263.8	1260.0	1263.8	1258.1
27.5°	1207.3	1209.2	1213.0	1209.2	1214.9	1213.0	1218.6	1216.7	1211.1	1216.7	1214.9
30°	1143.4	1150.9	1156.6	1150.9	1156.6	1156.6	1160.3	1158.4	1156.6	1154.7	1154.7
32.5°	1071.9	1079.5	1079.5	1077.6	1081.3	1081.3	1083.2	1079.5	1077.6	1079.5	1081.3
35°	983.6	987.3	991.1	989.2	991.1	993.0	991.1	993.0	987.3	989.2	989.2
37.5°	887.6	891.4	891.4	885.8	889.5	889.5	885.8	885.8	882.0	885.8	878.2
40°	786.1	782.3	784.2	780.4	776.7	776.7	774.8	767.3	763.5	765.4	767.3
42.5°	686.4	686.4	680.8	671.4	662.0	662.0	656.3	652.6	645.0	648.8	646.9
45°	601.8	592.4	584.9	569.8	564.2	560.4	551.0	541.6	537.9	539.7	537.9
47.5°	520.9	513.4	494.6	473.9	468.3	462.6	451.3	440.1	436.3	432.5	432.5
50°	453.2	440.1	419.4	396.8	387.4	378.0	363.0	351.7	344.1	346.0	346.0
52.5°	391.2	376.1	351.7	323.5	312.2	300.9	287.7	274.6	268.9	267.0	267.0
55°	336.6	319.7	295.3	263.3	253.9	240.7	223.8	208.7	201.2	199.3	203.1
57.5°	287.7	272.7	244.5	212.5	201.2	188.1	171.1	158.0	148.6	146.7	148.6
60°	248.2	227.6	203.1	173.0	158.0	146.7	127.9	116.6	107.2	103.4	105.3
62.5°	208.7	189.9	165.5	135.4	124.1	112.8	95.9	82.7	75.2	73.3	75.2
65°	178.7	159.9	137.3	111.0	99.7	88.4	73.3	60.2	54.5	52.7	54.5
67.5°	148.6	131.6	112.8	88.4	79.0	69.6	54.5	45.1	37.6	35.7	37.6
70°	120.4	105.3	86.5	69.6	60.2	52.7	41.4	32.0	26.3	24.4	26.3
72.5°	90.3	79.0	65.8	50.8	45.1	39.5	30.1	22.6	18.8	16.9	18.8
75°	65.8	56.4	47.0	35.7	32.0	28.2	20.7	15.0	13.2	11.3	13.2
77.5°	45.1	39.5	32.0	24.4	20.7	18.8	13.2	11.3	9.4	7.5	7.5
80°	30.1	26.3	20.7	16.9	15.0	13.2	9.4	7.5	5.6	5.6	5.6
82.5°	18.8	15.0	13.2	9.4	7.5	7.5	5.6	3.8	3.8	3.8	3.8
85°	11.3	9.4	7.5	5.6	3.8	3.8	1.9	1.9	1.9	1.9	1.9
87.5°	5.6	3.8	3.8	1.9	1.9	1.9	1.9	1.9	0.0	0.0	1.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6
2.5°	1329.6	1325.8	1325.8	1327.7	1329.6	1331.5	1327.7	1325.8	1325.8	1331.5	1327.7
5°	1329.6	1327.7	1327.7	1327.7	1331.5	1333.3	1329.6	1327.7	1329.6	1335.2	1333.3
7.5°	1335.2	1331.5	1333.3	1333.3	1335.2	1339.0	1335.2	1333.3	1335.2	1340.9	1337.1
10°	1339.0	1335.2	1337.1	1335.2	1340.9	1342.7	1339.0	1337.1	1339.0	1346.5	1344.6
12.5°	1340.9	1339.0	1339.0	1337.1	1342.7	1344.6	1340.9	1339.0	1340.9	1346.5	1344.6
15°	1337.1	1335.2	1335.2	1335.2	1339.0	1342.7	1337.1	1335.2	1335.2	1340.9	1339.0
17.5°	1329.6	1325.8	1325.8	1325.8	1327.7	1329.6	1323.9	1322.1	1320.2	1325.8	1323.9
20°	1316.4	1312.7	1308.9	1308.9	1310.8	1310.8	1307.0	1301.4	1301.4	1303.3	1299.5
22.5°	1292.0	1290.1	1286.3	1284.5	1288.2	1286.3	1278.8	1273.2	1271.3	1273.2	1269.4
25°	1258.1	1254.4	1252.5	1250.6	1252.5	1250.6	1243.1	1235.6	1235.6	1235.6	1229.9
27.5°	1211.1	1207.3	1205.5	1205.5	1207.3	1203.6	1196.1	1188.5	1184.8	1184.8	1179.1
30°	1150.9	1150.9	1149.0	1147.2	1145.3	1145.3	1134.0	1126.5	1122.7	1124.6	1120.8
32.5°	1077.6	1075.7	1073.8	1068.2	1070.1	1068.2	1058.8	1053.1	1047.5	1043.7	1041.9
35°	983.6	983.6	981.7	981.7	981.7	979.8	970.4	964.7	961.0	959.1	953.5
37.5°	880.1	878.2	876.4	876.4	876.4	876.4	870.7	865.1	865.1	863.2	859.4
40°	763.5	765.4	767.3	765.4	771.0	776.7	769.2	765.4	763.5	769.2	761.6
42.5°	650.7	648.8	658.2	660.1	660.1	669.5	671.4	673.3	671.4	675.1	675.1
45°	541.6	539.7	549.1	552.9	562.3	573.6	579.2	588.6	592.4	596.2	592.4
47.5°	438.2	445.7	453.2	462.6	470.2	489.0	500.2	509.6	513.4	519.0	519.0
50°	351.7	359.2	372.4	379.9	389.3	411.9	430.7	443.8	451.3	457.0	455.1
52.5°	270.8	284.0	300.9	308.4	321.6	347.9	368.6	383.6	393.0	398.7	400.6
55°	208.7	220.0	237.0	248.2	261.4	289.6	315.9	332.9	342.3	349.8	353.6
57.5°	154.2	167.4	186.2	195.6	210.6	242.6	265.2	285.9	297.1	306.5	308.4
60°	112.8	126.0	142.9	154.2	169.3	201.2	227.6	246.4	259.5	267.0	270.8
62.5°	80.9	94.0	111.0	122.2	135.4	163.6	189.9	208.7	221.9	231.3	237.0
65°	58.3	71.5	88.4	97.8	109.1	135.4	159.9	178.7	191.8	203.1	206.9
67.5°	43.3	52.7	67.7	77.1	88.4	109.1	129.8	146.7	159.9	169.3	173.0
70°	32.0	39.5	52.7	58.3	65.8	84.6	101.6	116.6	127.9	135.4	139.2
72.5°	22.6	28.2	37.6	43.3	48.9	63.9	77.1	88.4	95.9	103.4	107.2
75°	15.0	18.8	26.3	30.1	33.9	45.1	54.5	63.9	69.6	75.2	77.1
77.5°	9.4	13.2	18.8	20.7	24.4	30.1	37.6	43.3	47.0	50.8	54.5
80°	5.6	7.5	11.3	13.2	15.0	20.7	24.4	28.2	32.0	35.7	37.6
82.5°	3.8	5.6	7.5	7.5	9.4	11.3	15.0	18.8	20.7	22.6	24.4
85°	1.9	1.9	3.8	3.8	5.6	5.6	7.5	9.4	11.3	13.2	15.0
87.5°	1.9	1.9	1.9	1.9	3.8	3.8	5.6	5.6	5.6	7.5	7.5
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: P252687

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6
2.5°	1323.9	1329.6	1323.9	1327.7	1325.8	1325.8	1323.9	1325.8
5°	1329.6	1337.1	1329.6	1335.2	1331.5	1331.5	1331.5	1333.3
7.5°	1335.2	1342.7	1337.1	1342.7	1340.9	1339.0	1339.0	1342.7
10°	1340.9	1346.5	1342.7	1348.4	1346.5	1344.6	1344.6	1348.4
12.5°	1340.9	1348.4	1344.6	1350.3	1348.4	1346.5	1346.5	1348.4
15°	1335.2	1344.6	1339.0	1344.6	1342.7	1340.9	1340.9	1344.6
17.5°	1318.3	1325.8	1322.1	1325.8	1325.8	1323.9	1325.8	1327.7
20°	1295.7	1301.4	1297.6	1301.4	1301.4	1297.6	1299.5	1301.4
22.5°	1263.8	1269.4	1265.6	1269.4	1267.5	1265.6	1265.6	1263.8
25°	1224.3	1231.8	1226.2	1229.9	1226.2	1222.4	1222.4	1224.3
27.5°	1175.4	1181.0	1173.5	1177.3	1173.5	1169.7	1169.7	1167.9
30°	1111.4	1113.3	1107.7	1111.4	1107.7	1105.8	1102.0	1102.0
32.5°	1034.3	1036.2	1030.6	1030.6	1026.8	1026.8	1019.3	1024.9
35°	944.1	945.9	944.1	942.2	936.5	934.7	932.8	932.8
37.5°	850.0	850.0	844.4	842.5	838.7	835.0	836.9	831.2
40°	754.1	752.2	746.6	748.5	746.6	741.0	739.1	737.2
42.5°	663.9	663.9	658.2	660.1	656.3	654.4	648.8	650.7
45°	584.9	584.9	579.2	579.2	577.3	571.7	573.6	569.8
47.5°	513.4	513.4	511.5	511.5	505.9	504.0	504.0	504.0
50°	451.3	451.3	451.3	451.3	449.5	447.6	445.7	447.6
52.5°	398.7	402.4	400.6	400.6	398.7	396.8	394.9	394.9
55°	351.7	353.6	353.6	355.4	353.6	351.7	353.6	351.7
57.5°	310.3	314.1	314.1	314.1	314.1	314.1	312.2	310.3
60°	274.6	276.4	276.4	278.3	278.3	278.3	276.4	276.4
62.5°	238.8	242.6	244.5	244.5	246.4	244.5	244.5	244.5
65°	210.6	214.4	216.3	214.4	216.3	216.3	214.4	214.4
67.5°	176.8	180.5	180.5	180.5	180.5	182.4	180.5	180.5
70°	142.9	146.7	144.8	146.7	146.7	146.7	146.7	146.7
72.5°	109.1	111.0	112.8	112.8	114.7	112.8	112.8	112.8
75°	79.0	82.7	82.7	82.7	82.7	84.6	84.6	84.6
77.5°	56.4	58.3	58.3	60.2	60.2	60.2	60.2	62.1
80°	39.5	39.5	41.4	41.4	43.3	43.3	43.3	43.3
82.5°	26.3	28.2	28.2	28.2	28.2	28.2	28.2	28.2
85°	15.0	16.9	16.9	16.9	16.9	18.8	18.8	18.8
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	7.5	7.5
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)