

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: P252480

Luminaire Tested: **LD6B30D010 EU6B30508030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252480
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 EU6B30508030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 89.6 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

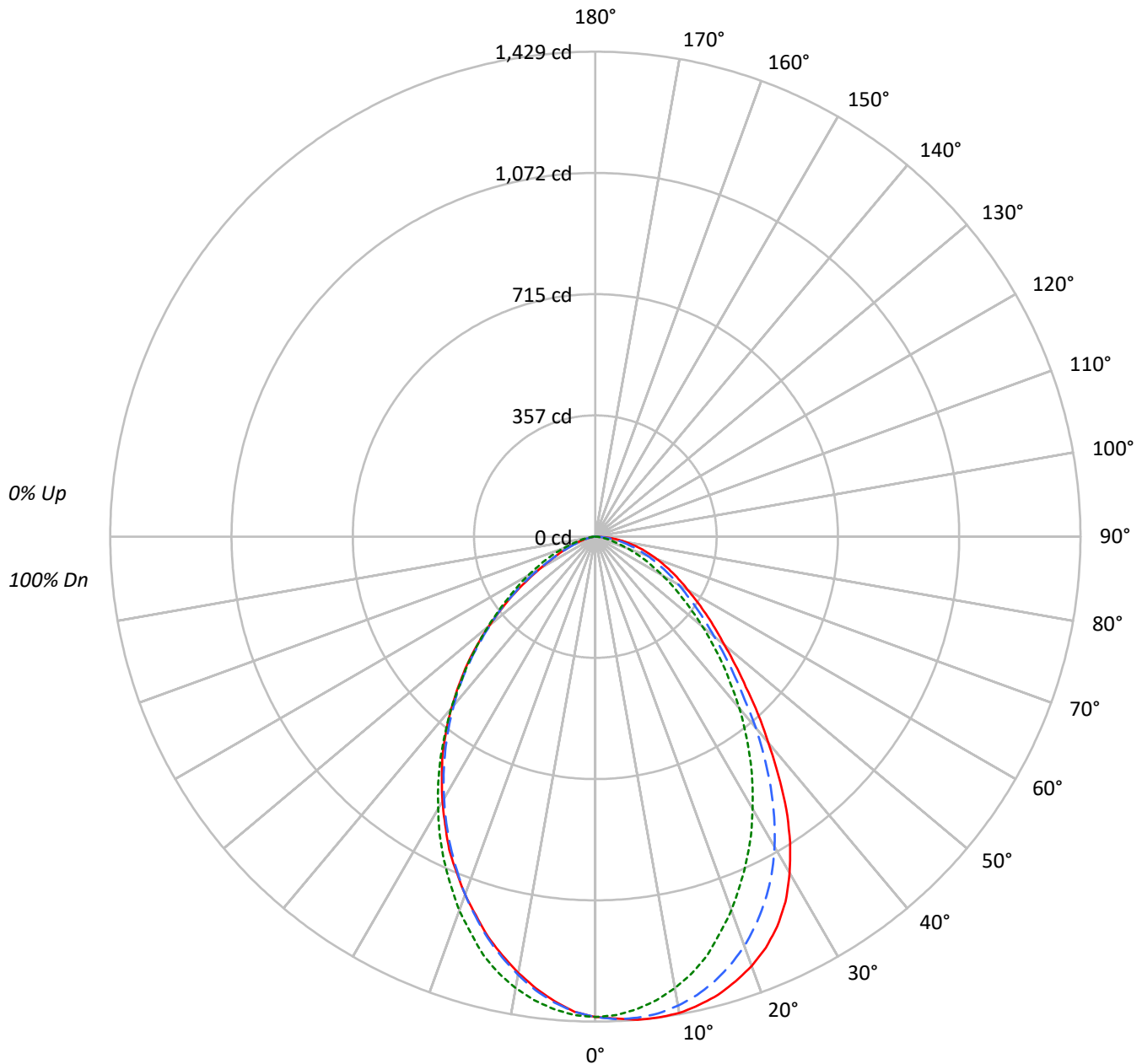
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	92342	92342	92342
5°	93598	91542	89996
10°	94422	89473	86479
15°	94410	86177	82455
20°	93491	81348	77933
25°	91277	75851	73302
30°	86196	69751	67830
35°	78131	63253	62473
40°	67477	56252	56090
45°	57859	48974	49334
50°	50281	41898	41299
55°	45168	35329	33099
60°	41036	29750	24374
65°	38547	24576	17907
70°	36758	19132	13124
75°	35189	13864	8923
80°	33250	9618	5899
85°	29418	5914	2919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	5.3
10°-20°	362.6	14.5
20°-30°	503.4	20.1
30°-40°	521.5	20.8
40°-50°	428.5	17.1
50°-60°	294.5	11.7
60°-70°	169.3	6.7
70°-80°	77.8	3.1
80°-90°	18.9	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°	998.5	39.8
0°-40°	1519.9	60.6
0°-60°	2242.9	89.4
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1415	1415	1415	1415	1415	
5°	1429	1423	1398	1378	1374	136
15°	1398	1356	1276	1225	1221	394
25°	1268	1184	1054	1008	1018	580
35°	981	900	794	771	784	608
45°	627	580	531	525	535	488
55°	397	360	311	293	291	357
65°	250	218	159	112	116	249
75°	140	110	55	35	35	148
85°	39	28	8	4	4	44
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°	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4
2.5°	1421.3	1433.1	1425.3	1423.3	1427.2	1427.2	1427.2	1421.3	1425.3	1419.4	1423.3
5°	1429.2	1439.0	1431.2	1427.2	1431.2	1433.1	1427.2	1423.3	1429.2	1421.3	1423.3
7.5°	1429.2	1439.0	1431.2	1429.2	1431.2	1431.2	1429.2	1421.3	1425.3	1417.4	1417.4
10°	1425.3	1433.1	1425.3	1421.3	1423.3	1421.3	1421.3	1411.5	1413.5	1403.7	1403.7
12.5°	1413.5	1423.3	1413.5	1409.5	1409.5	1409.5	1403.7	1395.8	1397.8	1386.0	1384.0
15°	1397.8	1405.6	1395.8	1391.9	1391.9	1389.9	1386.0	1374.2	1374.2	1362.4	1356.5
17.5°	1374.2	1382.0	1374.2	1368.3	1366.3	1362.4	1358.4	1346.6	1342.7	1328.9	1323.1
20°	1346.6	1352.5	1344.7	1338.8	1334.8	1330.9	1323.1	1311.3	1307.3	1293.6	1283.7
22.5°	1311.3	1319.1	1307.3	1301.4	1297.5	1291.6	1283.7	1271.9	1266.0	1248.3	1236.6
25°	1268.0	1271.9	1262.1	1256.2	1248.3	1244.4	1238.5	1222.8	1216.9	1197.2	1183.5
27.5°	1213.0	1216.9	1205.1	1201.2	1191.3	1187.4	1179.5	1165.8	1157.9	1138.3	1124.5
30°	1144.2	1148.1	1140.2	1134.3	1126.5	1118.6	1112.7	1098.9	1087.1	1067.5	1055.7
32.5°	1067.5	1073.4	1065.5	1057.7	1043.9	1045.9	1036.0	1022.3	1012.4	994.7	981.0
35°	981.0	984.9	975.1	973.1	965.3	957.4	947.6	937.7	931.8	912.2	900.4
37.5°	884.7	894.5	884.7	876.8	872.9	867.0	861.1	847.3	843.4	831.6	815.8
40°	792.3	798.2	792.3	784.4	778.5	778.5	770.6	762.8	752.9	741.1	735.2
42.5°	709.7	705.8	703.8	699.9	692.0	690.0	688.1	678.2	672.3	660.5	650.7
45°	627.1	629.1	625.2	623.2	617.3	613.4	609.4	601.6	599.6	587.8	579.9
47.5°	558.3	556.3	552.4	552.4	548.5	544.6	540.6	534.7	532.8	522.9	515.1
50°	495.4	497.4	495.4	493.4	487.5	485.6	481.6	477.7	473.8	464.0	456.1
52.5°	444.3	442.3	440.4	440.4	434.5	432.5	428.6	424.6	420.7	410.9	405.0
55°	397.1	397.1	395.1	393.2	387.3	385.3	383.4	379.4	373.5	365.7	359.8
57.5°	353.9	353.9	351.9	349.9	346.0	346.0	342.1	338.1	334.2	326.3	318.5
60°	314.5	316.5	314.5	312.6	308.6	308.6	306.7	300.8	298.8	289.0	283.1
62.5°	281.1	281.1	281.1	279.2	277.2	273.3	273.3	267.4	263.4	257.5	249.7
65°	249.7	249.7	249.7	247.7	243.8	241.8	239.8	235.9	232.0	226.1	218.2
67.5°	220.2	220.2	220.2	218.2	214.3	212.3	210.4	208.4	202.5	196.6	188.7
70°	192.7	192.7	190.7	188.7	186.8	184.8	182.8	178.9	175.0	167.1	161.2
72.5°	165.1	165.1	165.1	161.2	159.2	159.2	155.3	153.3	149.4	141.5	135.6
75°	139.6	137.6	137.6	135.6	133.7	131.7	129.7	127.8	121.9	118.0	110.1
77.5°	114.0	114.0	112.1	110.1	110.1	108.1	106.2	102.2	100.3	94.4	88.5
80°	88.5	88.5	88.5	88.5	86.5	84.5	84.5	80.6	78.6	72.7	68.8
82.5°	66.8	64.9	64.9	64.9	62.9	60.9	60.9	59.0	57.0	53.1	49.1
85°	39.3	37.4	37.4	37.4	35.4	35.4	33.4	33.4	31.5	27.5	27.5
87.5°	11.8	11.8	13.8	13.8	11.8	11.8	11.8	11.8	11.8	9.8	9.8
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°	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4
2.5°	1419.4	1425.3	1417.4	1415.4	1423.3	1419.4	1417.4	1413.5	1415.4	1411.5	1405.6
5°	1417.4	1425.3	1415.4	1409.5	1419.4	1413.5	1409.5	1405.6	1405.6	1397.8	1393.8
7.5°	1411.5	1415.4	1405.6	1399.7	1405.6	1399.7	1395.8	1389.9	1387.9	1378.1	1372.2
10°	1395.8	1399.7	1387.9	1380.1	1386.0	1378.1	1372.2	1366.3	1362.4	1350.6	1342.7
12.5°	1374.2	1376.1	1362.4	1352.5	1356.5	1350.6	1340.7	1332.9	1328.9	1317.2	1307.3
15°	1344.7	1346.6	1330.9	1317.2	1321.1	1313.2	1301.4	1293.6	1287.7	1275.9	1262.1
17.5°	1309.3	1307.3	1289.6	1275.9	1277.8	1268.0	1256.2	1244.4	1236.6	1222.8	1213.0
20°	1270.0	1264.1	1244.4	1228.7	1230.7	1218.9	1205.1	1193.3	1183.5	1171.7	1157.9
22.5°	1220.8	1213.0	1195.3	1175.6	1177.6	1167.7	1148.1	1138.3	1128.4	1112.7	1100.9
25°	1167.7	1155.9	1138.3	1118.6	1118.6	1106.8	1091.1	1079.3	1069.4	1053.7	1040.0
27.5°	1104.8	1098.9	1075.3	1059.6	1057.7	1045.9	1032.1	1018.3	1006.5	992.8	979.0
30°	1036.0	1026.2	1008.5	990.8	986.9	977.1	963.3	947.6	939.7	925.9	914.1
32.5°	963.3	953.5	933.8	916.1	914.1	906.3	894.5	878.8	870.9	861.1	853.2
35°	880.7	876.8	857.1	843.4	843.4	835.5	823.7	810.0	804.1	794.2	784.4
37.5°	802.1	796.2	778.5	766.7	766.7	756.9	745.1	739.2	733.3	725.4	719.5
40°	719.5	715.6	701.8	690.0	692.0	684.1	676.3	668.4	664.5	660.5	654.6
42.5°	642.8	638.9	629.1	619.3	619.3	613.4	605.5	599.6	595.7	589.8	587.8
45°	574.0	568.1	560.3	550.5	550.5	544.6	540.6	536.7	534.7	530.8	524.9
47.5°	507.2	503.3	495.4	485.6	485.6	485.6	477.7	471.8	471.8	467.9	465.9
50°	450.2	444.3	438.4	430.5	430.5	426.6	420.7	414.8	414.8	412.8	408.9
52.5°	397.1	393.2	385.3	377.5	377.5	373.5	367.6	365.7	363.7	357.8	355.8
55°	351.9	348.0	342.1	332.2	330.3	328.3	322.4	318.5	316.5	310.6	310.6
57.5°	310.6	306.7	296.9	291.0	289.0	285.1	279.2	275.2	273.3	269.3	265.4
60°	275.2	269.3	261.5	253.6	251.6	247.7	241.8	237.9	235.9	228.0	224.1
62.5°	241.8	235.9	228.0	220.2	218.2	214.3	206.4	202.5	198.6	190.7	186.8
65°	210.4	204.5	196.6	188.7	184.8	182.8	175.0	169.1	165.1	159.2	151.4
67.5°	180.9	175.0	167.1	157.3	157.3	151.4	145.5	139.6	133.7	127.8	121.9
70°	153.3	147.4	139.6	131.7	129.7	125.8	119.9	112.1	108.1	100.3	94.4
72.5°	127.8	121.9	114.0	106.2	104.2	100.3	94.4	86.5	80.6	74.7	68.8
75°	104.2	98.3	90.4	84.5	82.6	78.6	72.7	64.9	59.0	55.0	49.1
77.5°	82.6	76.7	70.8	64.9	62.9	59.0	53.1	49.1	43.2	39.3	33.4
80°	62.9	59.0	53.1	49.1	47.2	43.2	39.3	33.4	29.5	25.6	23.6
82.5°	45.2	41.3	37.4	31.5	31.5	27.5	25.6	21.6	17.7	15.7	13.8
85°	25.6	21.6	19.7	17.7	15.7	15.7	13.8	11.8	9.8	7.9	7.9
87.5°	7.9	7.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9	3.9
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°	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4
2.5°	1405.6	1407.6	1403.7	1407.6	1403.7	1405.6	1401.7	1405.6	1401.7	1405.6	1397.8
5°	1391.9	1391.9	1386.0	1389.9	1386.0	1387.9	1380.1	1382.0	1378.1	1382.0	1374.2
7.5°	1368.3	1370.2	1360.4	1364.3	1358.4	1358.4	1352.5	1354.5	1348.6	1350.6	1344.7
10°	1340.7	1338.8	1328.9	1332.9	1325.0	1325.0	1319.1	1319.1	1311.3	1313.2	1305.4
12.5°	1301.4	1299.5	1287.7	1291.6	1283.7	1283.7	1277.8	1277.8	1270.0	1273.9	1266.0
15°	1256.2	1254.2	1242.4	1244.4	1236.6	1236.6	1228.7	1230.7	1224.8	1228.7	1220.8
17.5°	1205.1	1203.1	1191.3	1193.3	1183.5	1185.4	1179.5	1177.6	1173.6	1175.6	1169.7
20°	1152.0	1148.1	1136.3	1138.3	1134.3	1128.4	1124.5	1126.5	1122.5	1126.5	1120.6
22.5°	1097.0	1089.1	1079.3	1079.3	1075.3	1075.3	1069.4	1073.4	1065.5	1071.4	1067.5
25°	1034.1	1028.2	1020.3	1024.2	1016.4	1016.4	1010.5	1012.4	1008.5	1012.4	1008.5
27.5°	973.1	969.2	957.4	961.3	955.4	957.4	951.5	953.5	951.5	955.4	951.5
30°	908.2	906.3	898.4	898.4	896.5	894.5	892.5	892.5	890.6	896.5	892.5
32.5°	847.3	841.4	833.5	839.4	829.6	835.5	831.6	835.5	831.6	835.5	833.5
35°	784.4	782.4	772.6	774.6	772.6	772.6	770.6	770.6	770.6	776.5	776.5
37.5°	717.6	715.6	709.7	711.7	707.7	705.8	705.8	709.7	709.7	713.6	713.6
40°	652.7	654.6	648.7	648.7	646.8	646.8	646.8	650.7	648.7	652.7	650.7
42.5°	587.8	587.8	581.9	583.9	581.9	583.9	583.9	587.8	587.8	589.8	587.8
45°	526.9	526.9	524.9	526.9	522.9	524.9	522.9	526.9	524.9	526.9	526.9
47.5°	465.9	465.9	465.9	464.0	464.0	464.0	464.0	464.0	462.0	465.9	464.0
50°	408.9	410.9	408.9	408.9	406.9	408.9	406.9	406.9	403.0	405.0	405.0
52.5°	357.8	357.8	353.9	353.9	353.9	351.9	351.9	351.9	349.9	349.9	346.0
55°	308.6	308.6	304.7	304.7	302.7	300.8	298.8	298.8	292.9	292.9	287.0
57.5°	263.4	261.5	255.6	255.6	251.6	249.7	247.7	245.7	241.8	237.9	235.9
60°	222.1	218.2	214.3	212.3	208.4	204.5	200.5	196.6	192.7	190.7	188.7
62.5°	182.8	176.9	173.0	171.0	167.1	161.2	157.3	153.3	149.4	147.4	143.5
65°	147.4	141.5	135.6	133.7	129.7	125.8	119.9	116.0	112.1	110.1	110.1
67.5°	116.0	110.1	102.2	102.2	98.3	94.4	90.4	86.5	84.5	86.5	86.5
70°	86.5	82.6	76.7	74.7	70.8	66.8	64.9	64.9	64.9	66.8	64.9
72.5°	64.9	59.0	55.0	53.1	51.1	49.1	49.1	49.1	47.2	49.1	49.1
75°	45.2	41.3	37.4	37.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
77.5°	31.5	27.5	25.6	25.6	25.6	23.6	23.6	23.6	23.6	23.6	23.6
80°	19.7	19.7	17.7	17.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
82.5°	11.8	11.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
85°	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	2.0	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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: P252480

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4	1415.4
2.5°	1397.8	1403.7	1395.8	1401.7	1399.7	1397.8	1393.8	1401.7
5°	1374.2	1376.1	1368.3	1376.1	1374.2	1370.2	1366.3	1374.2
7.5°	1340.7	1346.6	1336.8	1344.7	1342.7	1338.8	1334.8	1342.7
10°	1303.4	1309.3	1301.4	1307.3	1307.3	1303.4	1297.5	1305.4
12.5°	1262.1	1266.0	1258.2	1266.0	1264.1	1260.1	1258.2	1264.1
15°	1216.9	1222.8	1214.9	1220.8	1218.9	1216.9	1214.9	1220.8
17.5°	1167.7	1173.6	1167.7	1173.6	1173.6	1167.7	1165.8	1169.7
20°	1118.6	1122.5	1116.6	1122.5	1120.6	1120.6	1116.6	1122.5
22.5°	1063.6	1069.4	1065.5	1069.4	1067.5	1067.5	1065.5	1069.4
25°	1008.5	1014.4	1008.5	1014.4	1012.4	1012.4	1008.5	1018.3
27.5°	953.5	957.4	951.5	959.4	957.4	953.5	955.4	957.4
30°	894.5	898.4	894.5	900.4	900.4	900.4	896.5	900.4
32.5°	835.5	841.4	835.5	841.4	839.4	839.4	837.5	841.4
35°	776.5	778.5	774.6	780.5	780.5	782.4	778.5	784.4
37.5°	715.6	717.6	715.6	717.6	721.5	715.6	719.5	721.5
40°	652.7	656.6	654.6	656.6	656.6	658.6	656.6	658.6
42.5°	589.8	593.7	589.8	595.7	593.7	593.7	595.7	595.7
45°	524.9	530.8	526.9	530.8	532.8	530.8	530.8	534.7
47.5°	464.0	467.9	465.9	467.9	467.9	467.9	467.9	471.8
50°	403.0	405.0	405.0	406.9	406.9	408.9	405.0	406.9
52.5°	342.1	346.0	346.0	346.0	344.0	346.0	346.0	346.0
55°	287.0	289.0	285.1	289.0	289.0	287.0	287.0	291.0
57.5°	233.9	233.9	233.9	233.9	233.9	232.0	233.9	233.9
60°	184.8	186.8	184.8	184.8	184.8	184.8	182.8	186.8
62.5°	143.5	143.5	141.5	143.5	143.5	143.5	145.5	145.5
65°	112.1	114.0	112.1	114.0	114.0	114.0	114.0	116.0
67.5°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
70°	66.8	66.8	66.8	68.8	66.8	66.8	66.8	68.8
72.5°	49.1	49.1	49.1	49.1	49.1	49.1	51.1	51.1
75°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
77.5°	23.6	23.6	23.6	25.6	23.6	25.6	23.6	23.6
80°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
82.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0
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)