

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: PORTFOLIO

Report Number: P252363

Luminaire Tested: **LE\_6B20D010 EC6B10208030 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B20D010 EC6B10208030 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2303.8 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

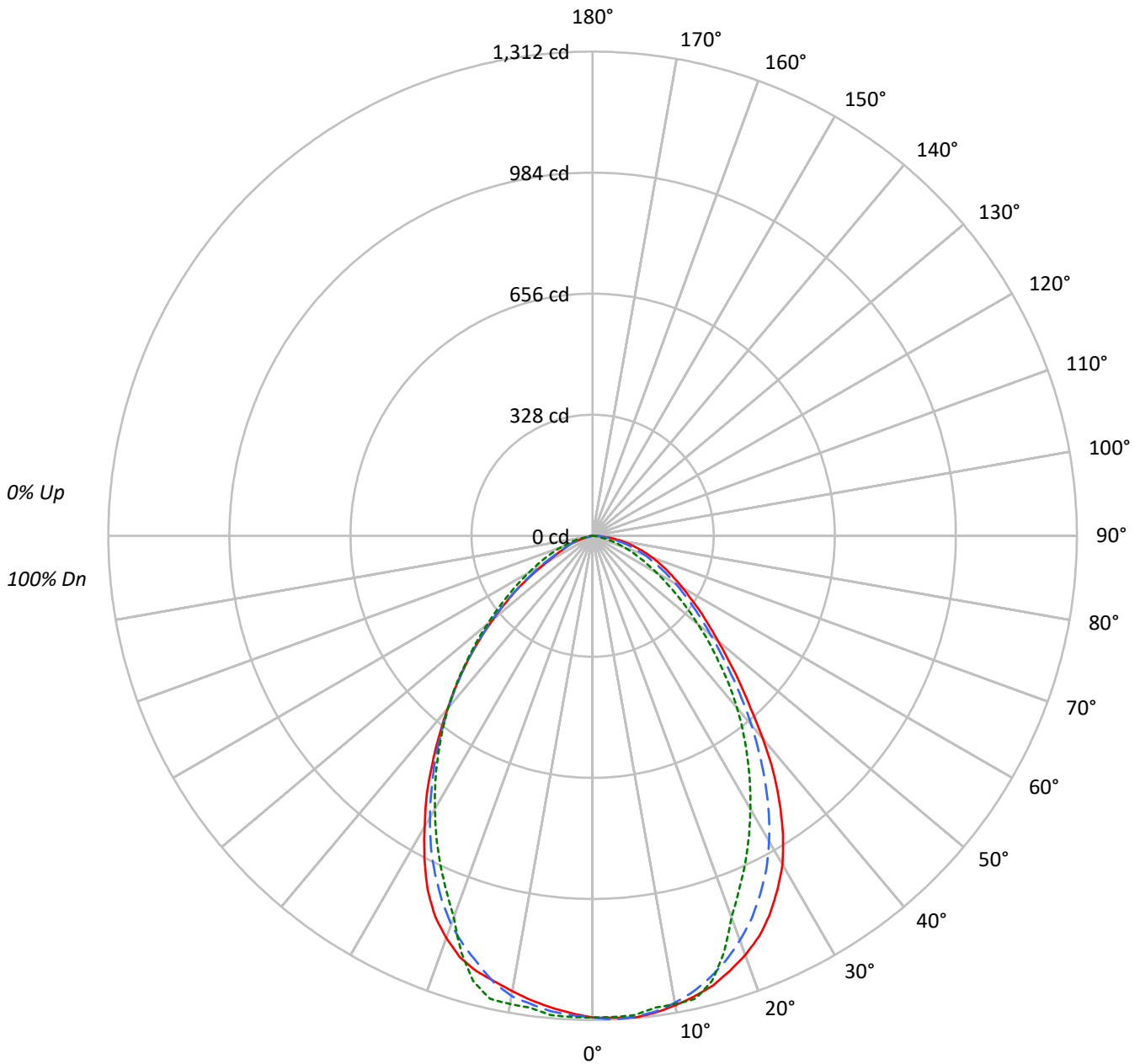
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	85165	85165	85165
5°	85818	85373	84037
10°	85578	85353	82994
15°	85184	84387	82442
20°	83924	76384	80501
25°	81638	70409	76153
30°	77518	64365	68584
35°	70342	58188	60354
40°	61072	51832	51968
45°	52083	44573	44102
50°	45075	37675	35615
55°	40288	31439	27571
60°	36717	26096	18581
65°	34286	21458	13878
70°	32657	17454	11636
75°	30753	12377	3831
80°	29305	6387	1277
85°	24103	3818	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	5.4
10°-20°	344.8	15.0
20°-30°	475.9	20.7
30°-40°	484.3	21.0
40°-50°	389.2	16.9
50°-60°	258.8	11.2
60°-70°	147.5	6.4
70°-80°	66.2	2.9
80°-90°	14.0	0.6
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°	943.9	41.0
0°-40°	1428.1	62.0
0°-60°	2076.1	90.1
0°-90°	2303.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1305	1305	1305	1305	1305	
5°	1310	1309	1304	1294	1283	124
15°	1261	1238	1249	1200	1221	355
25°	1134	1073	978	1010	1058	520
35°	883	815	731	744	758	549
45°	564	531	483	478	478	438
55°	354	331	276	246	242	318
65°	222	198	139	90	90	221
75°	122	102	49	20	15	130
85°	32	22	5	2	0	38
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°	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4
2.5°	1307.0	1313.8	1312.1	1310.4	1312.1	1310.4	1307.0	1307.0	1303.6	1303.6	1312.1
5°	1310.4	1313.8	1312.1	1310.4	1310.4	1312.1	1305.4	1305.4	1301.9	1300.2	1308.8
7.5°	1303.6	1308.8	1305.4	1305.4	1303.6	1305.4	1298.5	1298.5	1293.5	1291.8	1300.2
10°	1291.8	1298.5	1295.1	1295.1	1295.1	1291.8	1288.4	1286.6	1281.6	1279.9	1285.0
12.5°	1278.2	1283.2	1281.6	1278.2	1278.2	1278.2	1271.4	1269.8	1263.0	1259.5	1264.6
15°	1261.2	1264.6	1263.0	1261.2	1257.9	1257.9	1251.1	1247.6	1240.9	1234.1	1237.5
17.5°	1235.9	1240.9	1237.5	1235.9	1230.8	1230.8	1224.0	1220.6	1210.4	1203.6	1205.2
20°	1208.8	1210.4	1208.8	1205.2	1200.2	1198.5	1191.8	1185.0	1176.5	1168.0	1166.4
22.5°	1176.5	1178.1	1173.1	1169.8	1164.6	1162.9	1154.5	1149.4	1135.8	1125.6	1123.9
25°	1134.1	1135.8	1135.8	1127.4	1123.9	1120.5	1112.1	1103.6	1091.8	1078.1	1073.1
27.5°	1083.2	1088.4	1085.0	1076.5	1069.8	1068.0	1059.5	1052.8	1037.5	1025.6	1018.9
30°	1029.0	1027.2	1025.6	1020.5	1010.4	1008.6	1000.1	991.8	979.9	964.6	956.1
32.5°	959.5	959.5	957.8	952.8	942.5	939.1	932.4	922.2	908.6	896.8	888.2
35°	883.2	884.9	883.2	873.0	866.2	862.9	859.5	847.6	835.8	822.1	815.4
37.5°	803.5	798.5	800.1	791.6	783.2	786.6	776.4	771.4	757.8	747.6	740.9
40°	717.1	720.5	713.8	710.2	705.2	700.1	700.1	691.6	684.9	673.0	669.6
42.5°	632.4	637.4	635.8	632.4	625.5	627.2	618.8	615.4	606.9	601.8	596.8
45°	564.5	564.5	564.5	561.1	559.4	556.0	551.0	545.9	540.8	534.0	530.6
47.5°	498.4	498.4	500.1	496.8	493.2	491.6	488.2	488.2	479.8	473.0	469.6
50°	444.1	444.1	444.1	440.8	437.4	437.4	434.0	430.6	425.5	420.4	417.0
52.5°	395.0	395.0	395.0	391.6	389.9	388.2	386.5	384.9	378.0	374.6	371.2
55°	354.2	352.6	352.6	350.9	347.5	347.5	345.9	342.4	337.4	332.2	330.6
57.5°	313.6	315.2	313.6	313.6	310.2	310.2	306.9	305.1	300.0	296.6	293.2
60°	281.4	281.4	281.4	279.8	276.4	278.0	274.6	272.9	267.9	262.8	259.4
62.5°	249.2	250.9	250.9	249.2	245.8	245.8	244.1	242.4	237.4	232.2	227.1
65°	222.1	222.1	222.1	220.4	218.6	218.6	217.0	215.2	210.2	203.4	198.4
67.5°	196.6	195.0	195.0	195.0	193.2	191.5	189.9	188.1	183.1	178.0	171.2
70°	171.2	171.2	171.2	169.5	166.1	167.9	166.1	164.4	159.4	154.2	149.1
72.5°	147.5	147.5	145.8	144.1	144.1	142.4	142.4	140.8	135.6	128.9	123.8
75°	122.0	122.0	122.0	122.0	118.6	120.4	117.0	115.2	111.9	106.8	101.8
77.5°	100.0	100.0	100.0	98.4	96.6	96.6	94.9	93.2	88.1	84.8	78.0
80°	78.0	78.0	78.0	78.0	76.2	74.6	72.9	71.2	67.8	62.8	57.6
82.5°	57.6	57.6	56.0	56.0	56.0	54.2	52.5	50.9	47.5	44.1	40.6
85°	32.2	33.9	33.9	30.5	32.2	30.5	30.5	27.1	27.1	23.8	22.0
87.5°	11.9	10.1	10.1	10.1	10.1	10.1	10.1	8.5	8.5	8.5	6.8
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°	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4
2.5°	1305.4	1303.6	1310.4	1310.4	1300.2	1305.4	1307.0	1303.6	1303.6	1305.4	1300.2
5°	1301.9	1298.5	1305.4	1307.0	1296.9	1301.9	1303.6	1300.2	1301.9	1303.6	1296.9
7.5°	1290.1	1290.1	1295.1	1296.9	1286.6	1291.8	1291.8	1288.4	1290.1	1290.1	1285.0
10°	1278.2	1273.1	1278.2	1278.2	1269.8	1271.4	1274.8	1273.1	1279.9	1288.4	1288.4
12.5°	1256.1	1251.1	1259.5	1259.5	1254.5	1261.2	1269.8	1274.8	1281.6	1285.0	1274.8
15°	1229.0	1230.8	1246.0	1257.9	1252.8	1263.0	1271.4	1268.0	1259.5	1249.4	1234.1
17.5°	1193.5	1188.4	1201.9	1208.8	1201.9	1205.2	1212.1	1205.2	1191.8	1183.2	1162.9
20°	1152.8	1139.2	1139.2	1135.8	1123.9	1123.9	1122.2	1110.4	1105.2	1100.2	1091.8
22.5°	1107.0	1091.8	1086.6	1076.5	1066.2	1064.6	1059.5	1047.6	1040.9	1037.5	1027.2
25°	1054.4	1040.9	1032.4	1022.2	1007.0	1003.6	998.5	986.6	983.2	978.1	969.6
27.5°	1000.1	983.2	971.4	961.2	947.6	945.9	935.8	927.2	920.5	917.1	910.4
30°	937.5	918.8	910.4	896.8	886.6	883.2	874.8	862.9	857.8	854.4	849.2
32.5°	868.0	852.8	844.2	832.4	818.8	820.5	810.4	800.1	796.8	793.4	788.2
35°	800.1	784.9	774.8	764.5	756.1	752.6	745.9	737.4	732.4	730.6	727.2
37.5°	725.5	713.8	705.2	695.0	688.2	684.9	681.5	673.0	669.6	669.6	662.9
40°	652.6	642.5	635.8	630.6	622.1	620.5	617.0	612.0	610.2	608.6	603.5
42.5°	586.5	573.0	567.9	564.5	559.4	556.0	554.4	551.0	549.2	547.5	542.5
45°	523.9	512.0	506.9	503.5	498.4	496.8	495.0	489.9	486.5	483.1	481.5
47.5°	462.8	454.4	452.6	444.1	440.8	437.4	434.0	430.6	428.9	427.2	420.4
50°	410.2	405.1	396.6	391.6	388.2	386.5	379.8	374.6	373.0	371.2	366.1
52.5°	362.8	356.0	350.9	342.4	340.8	337.4	334.0	327.1	323.8	322.1	317.0
55°	320.4	315.2	308.5	301.8	296.6	295.0	289.9	283.1	279.8	276.4	272.9
57.5°	284.8	276.4	269.5	262.8	259.4	254.2	249.2	245.8	240.8	235.6	230.5
60°	250.9	244.1	235.6	228.9	225.5	222.1	215.2	210.2	205.1	200.0	195.0
62.5°	218.6	211.9	203.4	196.6	193.2	189.9	183.1	178.0	172.9	167.9	161.0
65°	189.9	183.1	176.2	169.5	166.1	162.8	156.0	149.1	144.1	139.0	132.2
67.5°	166.1	157.6	150.9	144.1	140.8	137.4	130.5	125.5	118.6	113.6	106.8
70°	140.8	133.9	128.9	122.0	118.6	115.2	108.5	101.8	96.6	91.5	84.8
72.5°	118.6	110.2	105.1	98.4	94.9	93.2	86.5	81.4	76.2	69.5	64.4
75°	94.9	88.1	81.4	76.2	72.9	71.2	64.4	59.4	54.2	49.1	44.1
77.5°	72.9	67.8	61.0	56.0	52.5	50.9	44.1	39.0	33.9	30.5	25.4
80°	54.2	47.5	44.1	39.0	37.2	33.9	30.5	25.4	22.0	17.0	13.5
82.5°	37.2	32.2	28.9	25.4	23.8	22.0	18.6	15.2	11.9	10.1	8.5
85°	20.4	17.0	15.2	13.5	11.9	11.9	10.1	8.5	6.8	5.1	3.4
87.5°	6.8	5.1	5.1	5.1	5.1	3.4	3.4	3.4	1.8	1.8	1.8
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4
2.5°	1303.6	1303.6	1303.6	1301.9	1301.9	1301.9	1300.2	1307.0	1300.2	1298.5	1303.6
5°	1301.9	1298.5	1298.5	1298.5	1298.5	1296.9	1295.1	1298.5	1293.5	1291.8	1291.8
7.5°	1291.8	1290.1	1290.1	1288.4	1286.6	1285.0	1283.2	1285.0	1279.9	1278.2	1278.2
10°	1293.5	1290.1	1290.1	1285.0	1281.6	1276.5	1271.4	1273.1	1266.4	1261.2	1261.2
12.5°	1273.1	1264.6	1259.5	1254.5	1251.1	1249.4	1242.6	1246.0	1239.2	1237.5	1237.5
15°	1227.4	1217.1	1208.8	1205.2	1205.2	1201.9	1196.9	1203.6	1200.2	1201.9	1210.4
17.5°	1156.1	1151.0	1146.0	1144.2	1146.0	1149.4	1152.8	1162.9	1162.9	1168.0	1176.5
20°	1093.4	1090.0	1093.4	1093.4	1095.1	1101.9	1108.6	1117.1	1120.5	1125.6	1137.5
22.5°	1032.4	1032.4	1035.8	1040.9	1039.1	1051.0	1052.8	1068.0	1068.0	1078.1	1088.4
25°	973.0	973.0	976.5	978.1	981.5	988.4	995.1	1007.0	1010.4	1020.5	1029.0
27.5°	915.4	913.8	913.8	915.4	918.8	927.2	930.6	944.2	949.4	956.1	964.6
30°	851.0	849.2	852.8	856.1	854.4	862.9	868.0	878.1	881.5	888.2	895.1
32.5°	790.0	790.0	790.0	793.4	793.4	800.1	800.1	812.0	812.0	817.1	823.9
35°	727.2	727.2	729.0	730.6	732.4	734.0	735.8	742.5	744.2	745.9	749.2
37.5°	667.9	666.2	667.9	667.9	664.5	671.2	671.2	678.1	673.0	678.1	679.8
40°	606.9	606.9	605.2	605.2	605.2	608.6	605.2	610.2	606.9	610.2	608.6
42.5°	544.1	544.1	540.8	544.1	542.5	542.5	542.5	545.9	540.8	544.1	545.9
45°	481.5	479.8	479.8	478.0	478.0	478.0	479.8	479.8	478.0	481.5	481.5
47.5°	420.4	418.8	418.8	418.8	418.8	420.4	415.4	418.8	415.4	415.4	415.4
50°	367.9	366.1	364.5	362.8	361.1	361.1	359.4	359.4	356.0	354.2	352.6
52.5°	317.0	315.2	311.9	311.9	310.2	308.5	303.5	303.5	298.4	296.6	296.6
55°	271.2	266.1	264.5	261.1	261.1	257.6	254.2	250.9	245.8	242.4	242.4
57.5°	228.9	223.8	220.4	218.6	217.0	213.6	206.9	205.1	198.4	196.6	195.0
60°	191.5	186.5	181.4	178.0	176.2	171.2	164.4	161.0	157.6	152.6	147.5
62.5°	156.0	150.9	144.1	142.4	139.0	133.9	128.9	123.8	120.4	115.2	111.9
65°	125.5	120.4	115.2	111.9	108.5	103.4	98.4	93.2	89.9	88.1	86.5
67.5°	101.8	94.9	89.9	88.1	84.8	81.4	76.2	74.6	71.2	71.2	71.2
70°	79.6	74.6	69.5	67.8	66.1	62.8	59.4	59.4	59.4	59.4	59.4
72.5°	59.4	56.0	50.9	49.1	47.5	45.8	42.4	44.1	42.4	42.4	42.4
75°	37.2	33.9	30.5	28.9	27.1	25.4	23.8	22.0	20.4	18.6	18.6
77.5°	20.4	17.0	15.2	13.5	13.5	11.9	10.1	10.1	8.5	8.5	8.5
80°	11.9	10.1	8.5	6.8	6.8	5.1	5.1	5.1	5.1	3.4	3.4
82.5°	6.8	5.1	3.4	3.4	3.4	3.4	1.8	1.8	1.8	1.8	1.8
85°	3.4	3.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P252363

CATALOG NUMBER: LE\_6B20D010 EC6B10208030 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4	1305.4
2.5°	1295.1	1300.2	1295.1	1300.2	1300.2	1300.2	1300.2	1295.1
5°	1286.6	1290.1	1285.0	1288.4	1290.1	1288.4	1288.4	1283.2
7.5°	1271.4	1274.8	1269.8	1274.8	1276.5	1274.8	1273.1	1269.8
10°	1256.1	1257.9	1252.8	1256.1	1259.5	1259.5	1257.9	1252.8
12.5°	1232.4	1237.5	1232.4	1235.9	1239.2	1240.9	1240.9	1235.9
15°	1205.2	1213.8	1210.4	1215.5	1220.6	1222.2	1222.2	1220.6
17.5°	1178.1	1186.6	1181.6	1190.0	1195.1	1198.5	1200.2	1196.9
20°	1139.2	1149.4	1146.0	1152.8	1159.5	1164.6	1164.6	1159.5
22.5°	1088.4	1101.9	1100.2	1105.2	1113.8	1115.5	1118.9	1115.5
25°	1032.4	1042.6	1040.9	1046.0	1056.1	1056.1	1057.9	1057.9
27.5°	968.0	978.1	976.5	979.9	986.6	988.4	990.0	986.6
30°	898.5	903.5	903.5	908.6	913.8	915.4	915.4	910.4
32.5°	822.1	829.0	832.4	830.6	835.8	839.1	837.5	837.5
35°	752.6	754.4	756.1	757.8	759.5	762.9	759.5	757.8
37.5°	678.1	683.1	679.8	683.1	686.6	684.9	683.1	683.1
40°	610.2	612.0	608.6	612.0	613.6	613.6	613.6	610.2
42.5°	542.5	545.9	542.5	545.9	545.9	545.9	545.9	544.1
45°	474.6	478.0	478.0	479.8	479.8	478.0	478.0	478.0
47.5°	412.0	415.4	412.0	415.4	417.0	413.6	413.6	413.6
50°	352.6	350.9	350.9	352.6	352.6	352.6	352.6	350.9
52.5°	291.6	293.2	293.2	293.2	295.0	293.2	295.0	295.0
55°	239.0	239.0	239.0	240.8	239.0	239.0	240.8	242.4
57.5°	191.5	189.9	188.1	188.1	189.9	188.1	188.1	188.1
60°	147.5	145.8	144.1	144.1	144.1	144.1	144.1	142.4
62.5°	110.2	110.2	110.2	111.9	111.9	111.9	111.9	113.6
65°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	89.9
67.5°	71.2	71.2	71.2	72.9	72.9	72.9	72.9	72.9
70°	59.4	59.4	61.0	59.4	61.0	61.0	61.0	61.0
72.5°	40.6	40.6	40.6	40.6	40.6	39.0	40.6	39.0
75°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	15.2
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
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)