

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: P252491

Luminaire Tested: **LE\_6B30D010 EC6B30509730 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252491  
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: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30509730 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2341.2 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

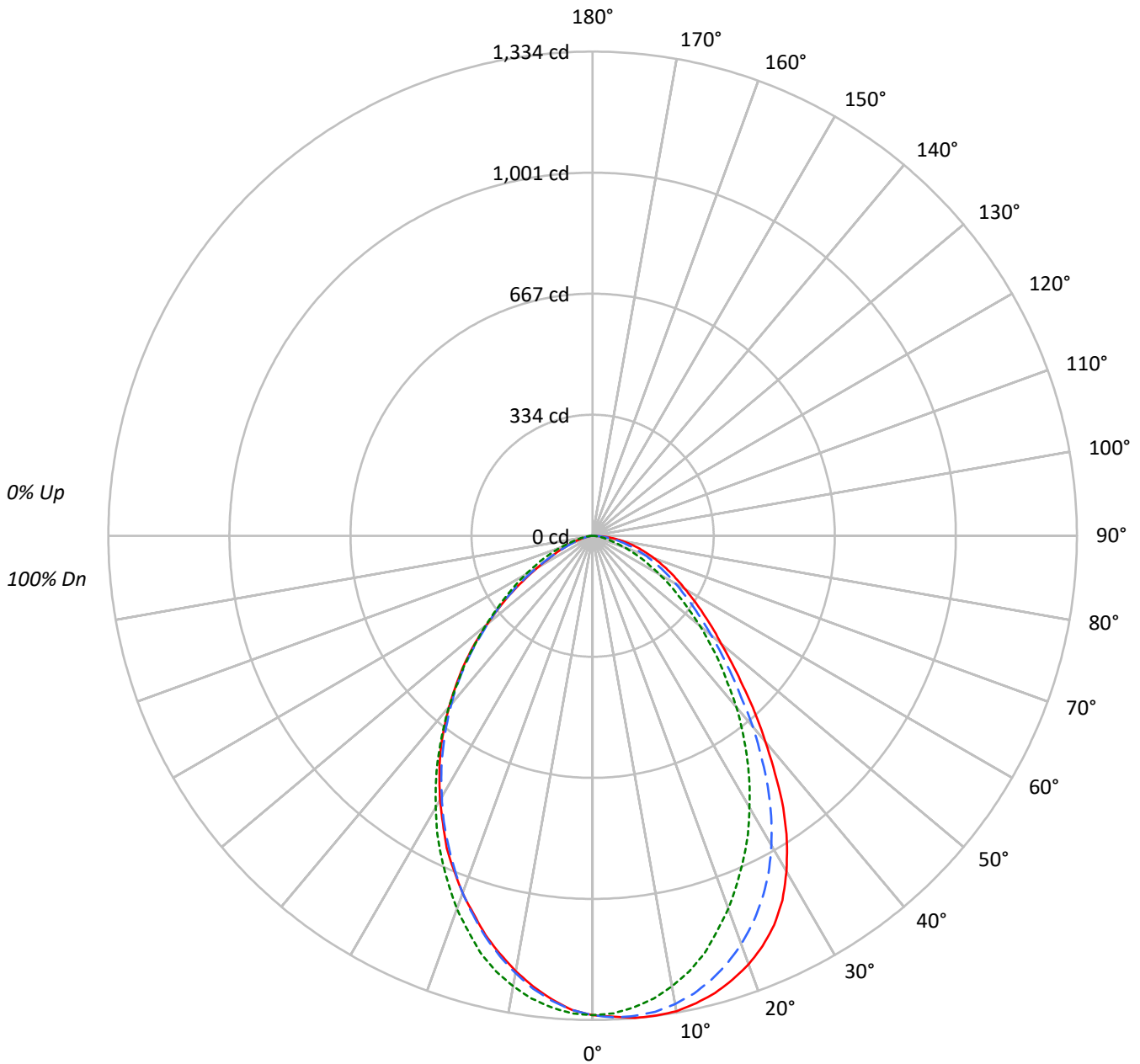
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100				
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39				
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33				

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

	0°	90°	180°
0°	86170	86170	86170
5°	87337	85412	83971
10°	88109	83485	80696
15°	88088	80416	76944
20°	87243	75912	72725
25°	85173	70776	68400
30°	80426	65088	63288
35°	72906	59024	58299
40°	62954	52496	52334
45°	53993	45689	46040
50°	46912	39096	38548
55°	42142	32974	30881
60°	38296	27766	22730
65°	35969	22940	16703
70°	34297	17835	12246
75°	32820	12956	8318
80°	30996	8979	5485
85°	27547	5539	2695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	5.3
10°-20°	338.4	14.5
20°-30°	469.8	20.1
30°-40°	486.6	20.8
40°-50°	399.9	17.1
50°-60°	274.8	11.7
60°-70°	158.0	6.7
70°-80°	72.6	3.1
80°-90°	17.7	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°	931.7	39.8
0°-40°	1418.3	60.6
0°-60°	2093.0	89.4
0°-90°	2341.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1321	1321	1321	1321	1321	
5°	1334	1328	1304	1286	1282	127
15°	1304	1266	1191	1143	1139	367
25°	1183	1104	983	941	950	541
35°	915	840	741	719	732	568
45°	585	541	495	490	499	456
55°	370	336	290	273	272	333
65°	233	204	149	105	108	232
75°	130	103	51	33	33	138
85°	37	26	7	4	4	41
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°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1326.4	1337.4	1330.0	1328.1	1331.9	1331.9	1331.9	1326.4	1330.0	1324.5	1328.1
5°	1333.6	1342.9	1335.5	1331.9	1335.5	1337.4	1331.9	1328.1	1333.6	1326.4	1328.1
7.5°	1333.6	1342.9	1335.5	1333.6	1335.5	1335.5	1333.6	1326.4	1330.0	1322.6	1322.6
10°	1330.0	1337.4	1330.0	1326.4	1328.1	1326.4	1326.4	1317.1	1319.0	1309.8	1309.8
12.5°	1319.0	1328.1	1319.0	1315.2	1315.2	1315.2	1309.8	1302.5	1304.2	1293.2	1291.5
15°	1304.2	1311.6	1302.5	1298.8	1298.8	1297.0	1293.2	1282.2	1282.2	1271.2	1265.8
17.5°	1282.2	1289.6	1282.2	1276.8	1275.0	1271.2	1267.6	1256.6	1252.9	1240.1	1234.6
20°	1256.6	1262.1	1254.8	1249.2	1245.6	1241.9	1234.6	1223.6	1219.9	1207.1	1197.9
22.5°	1223.6	1230.9	1219.9	1214.4	1210.8	1205.2	1197.9	1186.9	1181.4	1164.9	1153.9
25°	1183.2	1186.9	1177.8	1172.2	1164.9	1161.2	1155.8	1141.0	1135.5	1117.1	1104.4
27.5°	1131.9	1135.5	1124.5	1120.9	1111.6	1108.0	1100.6	1087.9	1080.5	1062.1	1049.2
30°	1067.6	1071.4	1064.0	1058.5	1051.1	1043.8	1038.2	1025.5	1014.5	996.1	985.1
32.5°	996.1	1001.6	994.2	987.0	974.1	975.9	966.8	953.9	944.8	928.2	915.4
35°	915.4	919.1	909.9	908.0	900.8	893.4	884.2	875.0	869.5	851.2	840.1
37.5°	825.5	834.6	825.5	818.1	814.5	809.0	803.5	790.6	787.0	776.0	761.2
40°	739.2	744.8	739.2	732.0	726.5	726.5	719.1	711.8	702.6	691.6	686.1
42.5°	662.2	658.6	656.8	653.1	645.8	643.9	642.0	632.9	627.4	616.4	607.2
45°	585.2	587.0	583.4	581.5	576.0	572.4	568.6	561.4	559.5	548.5	541.1
47.5°	521.0	519.1	515.5	515.5	511.9	508.1	504.5	499.0	497.1	488.0	480.6
50°	462.2	464.1	462.2	460.5	455.0	453.1	449.5	445.8	442.1	432.9	425.6
52.5°	414.6	412.8	410.9	410.9	405.4	403.6	399.9	396.2	392.6	383.4	377.9
55°	370.5	370.5	368.8	366.9	361.4	359.5	357.8	354.0	348.5	341.2	335.8
57.5°	330.2	330.2	328.4	326.5	322.9	322.9	319.2	315.5	311.9	304.5	297.1
60°	293.5	295.4	293.5	291.6	288.0	288.0	286.1	280.6	278.9	269.6	264.1
62.5°	262.4	262.4	262.4	260.5	258.6	255.0	255.0	249.5	245.9	240.4	233.0
65°	233.0	233.0	233.0	231.1	227.5	225.6	223.8	220.1	216.5	211.0	203.6
67.5°	205.5	205.5	205.5	203.6	200.0	198.1	196.2	194.5	189.0	183.5	176.1
70°	179.8	179.8	178.0	176.1	174.2	172.5	170.6	166.9	163.2	155.9	150.4
72.5°	154.1	154.1	154.1	150.4	148.6	148.6	144.9	143.1	139.4	132.1	126.6
75°	130.2	128.4	128.4	126.6	124.8	122.9	121.1	119.2	113.8	110.1	102.8
77.5°	106.4	106.4	104.6	102.8	102.8	100.9	99.0	95.4	93.5	88.0	82.5
80°	82.5	82.5	82.5	82.5	80.8	78.9	78.9	75.2	73.4	67.9	64.2
82.5°	62.4	60.5	60.5	60.5	58.8	56.9	56.9	55.0	53.2	49.5	45.9
85°	36.8	34.9	34.9	34.9	33.0	33.0	31.1	31.1	29.4	25.6	25.6
87.5°	11.0	11.0	12.9	12.9	11.0	11.0	11.0	11.0	11.0	9.1	9.1
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°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1324.5	1330.0	1322.6	1320.8	1328.1	1324.5	1322.6	1319.0	1320.8	1317.1	1311.6
5°	1322.6	1330.0	1320.8	1315.2	1324.5	1319.0	1315.2	1311.6	1311.6	1304.2	1300.6
7.5°	1317.1	1320.8	1311.6	1306.1	1311.6	1306.1	1302.5	1297.0	1295.1	1286.0	1280.5
10°	1302.5	1306.1	1295.1	1287.8	1293.2	1286.0	1280.5	1275.0	1271.2	1260.2	1252.9
12.5°	1282.2	1284.1	1271.2	1262.1	1265.8	1260.2	1251.1	1243.8	1240.1	1229.1	1219.9
15°	1254.8	1256.6	1241.9	1229.1	1232.8	1225.4	1214.4	1207.1	1201.6	1190.6	1177.8
17.5°	1221.8	1219.9	1203.4	1190.6	1192.4	1183.2	1172.2	1161.2	1153.9	1141.0	1131.9
20°	1185.0	1179.5	1161.2	1146.5	1148.4	1137.4	1124.5	1113.5	1104.4	1093.4	1080.5
22.5°	1139.2	1131.9	1115.4	1097.0	1098.9	1089.6	1071.4	1062.1	1053.0	1038.2	1027.2
25°	1089.6	1078.6	1062.1	1043.8	1043.8	1032.8	1018.1	1007.1	998.0	983.2	970.4
27.5°	1031.0	1025.5	1003.5	988.8	987.0	975.9	963.1	950.2	939.2	926.4	913.5
30°	966.8	957.6	941.1	924.6	920.9	911.8	898.9	884.2	876.9	864.0	853.0
32.5°	898.9	889.8	871.4	854.9	853.0	845.6	834.6	820.0	812.6	803.5	796.1
35°	821.9	818.1	799.9	787.0	787.0	779.6	768.6	755.8	750.2	741.1	732.0
37.5°	748.5	743.0	726.5	715.5	715.5	706.2	695.2	689.8	684.2	676.9	671.4
40°	671.4	667.8	654.9	643.9	645.8	638.4	631.0	623.8	620.0	616.4	610.9
42.5°	599.9	596.2	587.0	577.9	577.9	572.4	565.0	559.5	555.9	550.4	548.5
45°	535.6	530.1	522.9	513.6	513.6	508.1	504.5	500.8	499.0	495.2	489.8
47.5°	473.2	469.6	462.2	453.1	453.1	453.1	445.8	440.2	440.2	436.6	434.8
50°	420.1	414.6	409.1	401.8	401.8	398.1	392.6	387.1	387.1	385.2	381.6
52.5°	370.5	366.9	359.5	352.2	352.2	348.5	343.0	341.2	339.4	333.9	332.0
55°	328.4	324.8	319.2	310.0	308.2	306.4	300.9	297.1	295.4	289.9	289.9
57.5°	289.9	286.1	277.0	271.5	269.6	266.0	260.5	256.9	255.0	251.4	247.6
60°	256.9	251.4	244.0	236.6	234.8	231.1	225.6	222.0	220.1	212.8	209.1
62.5°	225.6	220.1	212.8	205.5	203.6	200.0	192.6	189.0	185.2	178.0	174.2
65°	196.2	190.8	183.5	176.1	172.5	170.6	163.2	157.8	154.1	148.6	141.2
67.5°	168.8	163.2	155.9	146.8	146.8	141.2	135.8	130.2	124.8	119.2	113.8
70°	143.1	137.6	130.2	122.9	121.1	117.4	111.9	104.6	100.9	93.5	88.0
72.5°	119.2	113.8	106.4	99.0	97.2	93.5	88.0	80.8	75.2	69.8	64.2
75°	97.2	91.8	84.4	78.9	77.0	73.4	67.9	60.5	55.0	51.4	45.9
77.5°	77.0	71.5	66.0	60.5	58.8	55.0	49.5	45.9	40.4	36.8	31.1
80°	58.8	55.0	49.5	45.9	44.0	40.4	36.8	31.1	27.5	23.9	22.0
82.5°	42.2	38.5	34.9	29.4	29.4	25.6	23.9	20.1	16.5	14.6	12.9
85°	23.9	20.1	18.4	16.5	14.6	14.6	12.9	11.0	9.1	7.4	7.4
87.5°	7.4	7.4	5.5	5.5	5.5	5.5	3.6	3.6	3.6	3.6	3.6
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°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1311.6	1313.5	1309.8	1313.5	1309.8	1311.6	1308.0	1311.6	1308.0	1311.6	1304.2
5°	1298.8	1298.8	1293.2	1297.0	1293.2	1295.1	1287.8	1289.6	1286.0	1289.6	1282.2
7.5°	1276.8	1278.6	1269.5	1273.1	1267.6	1267.6	1262.1	1264.0	1258.5	1260.2	1254.8
10°	1251.1	1249.2	1240.1	1243.8	1236.4	1236.4	1230.9	1230.9	1223.6	1225.4	1218.1
12.5°	1214.4	1212.6	1201.6	1205.2	1197.9	1197.9	1192.4	1192.4	1185.0	1188.8	1181.4
15°	1172.2	1170.4	1159.4	1161.2	1153.9	1153.9	1146.5	1148.4	1142.9	1146.5	1139.2
17.5°	1124.5	1122.8	1111.6	1113.5	1104.4	1106.1	1100.6	1098.9	1095.1	1097.0	1091.5
20°	1075.0	1071.4	1060.4	1062.1	1058.5	1053.0	1049.2	1051.1	1047.5	1051.1	1045.6
22.5°	1023.6	1016.2	1007.1	1007.1	1003.5	1003.5	998.0	1001.6	994.2	999.8	996.1
25°	964.9	959.4	952.1	955.8	948.4	948.4	942.9	944.8	941.1	944.8	941.1
27.5°	908.0	904.4	893.4	897.0	891.5	893.4	887.9	889.8	887.9	891.5	887.9
30°	847.5	845.6	838.4	838.4	836.5	834.6	832.9	832.9	831.0	836.5	832.9
32.5°	790.6	785.1	777.8	783.4	774.1	779.6	776.0	779.6	776.0	779.6	777.8
35°	732.0	730.1	721.0	722.8	721.0	721.0	719.1	719.1	719.1	724.6	724.6
37.5°	669.6	667.8	662.2	664.1	660.4	658.6	658.6	662.2	662.2	665.9	665.9
40°	609.0	610.9	605.4	605.4	603.5	603.5	603.5	607.2	605.4	609.0	607.2
42.5°	548.5	548.5	543.0	544.9	543.0	544.9	544.9	548.5	548.5	550.4	548.5
45°	491.6	491.6	489.8	491.6	488.0	489.8	488.0	491.6	489.8	491.6	491.6
47.5°	434.8	434.8	434.8	432.9	432.9	432.9	432.9	432.9	431.1	434.8	432.9
50°	381.6	383.4	381.6	381.6	379.8	381.6	379.8	379.8	376.1	377.9	377.9
52.5°	333.9	333.9	330.2	330.2	330.2	328.4	328.4	328.4	326.5	326.5	322.9
55°	288.0	288.0	284.4	284.4	282.5	280.6	278.9	278.9	273.4	273.4	267.9
57.5°	245.9	244.0	238.5	238.5	234.8	233.0	231.1	229.2	225.6	222.0	220.1
60°	207.2	203.6	200.0	198.1	194.5	190.8	187.1	183.5	179.8	178.0	176.1
62.5°	170.6	165.1	161.4	159.6	155.9	150.4	146.8	143.1	139.4	137.6	133.9
65°	137.6	132.1	126.6	124.8	121.1	117.4	111.9	108.2	104.6	102.8	102.8
67.5°	108.2	102.8	95.4	95.4	91.8	88.0	84.4	80.8	78.9	80.8	80.8
70°	80.8	77.0	71.5	69.8	66.0	62.4	60.5	60.5	60.5	62.4	60.5
72.5°	60.5	55.0	51.4	49.5	47.8	45.9	45.9	45.9	44.0	45.9	45.9
75°	42.2	38.5	34.9	34.9	33.0	33.0	33.0	33.0	33.0	33.0	33.0
77.5°	29.4	25.6	23.9	23.9	23.9	22.0	22.0	22.0	22.0	22.0	22.0
80°	18.4	18.4	16.5	16.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6
82.5°	11.0	11.0	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
85°	5.5	5.5	5.5	5.5	5.5	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	1.9	1.9	1.9	1.9	1.9	3.6	3.6	3.6	3.6	3.6	3.6
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: P252491

CATALOG NUMBER: LE\_6B30D010 EC6B30509730 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1304.2	1309.8	1302.5	1308.0	1306.1	1304.2	1300.6	1308.0
5°	1282.2	1284.1	1276.8	1284.1	1282.2	1278.6	1275.0	1282.2
7.5°	1251.1	1256.6	1247.4	1254.8	1252.9	1249.2	1245.6	1252.9
10°	1216.2	1221.8	1214.4	1219.9	1219.9	1216.2	1210.8	1218.1
12.5°	1177.8	1181.4	1174.0	1181.4	1179.5	1175.9	1174.0	1179.5
15°	1135.5	1141.0	1133.8	1139.2	1137.4	1135.5	1133.8	1139.2
17.5°	1089.6	1095.1	1089.6	1095.1	1095.1	1089.6	1087.9	1091.5
20°	1043.8	1047.5	1042.0	1047.5	1045.6	1045.6	1042.0	1047.5
22.5°	992.5	998.0	994.2	998.0	996.1	996.1	994.2	998.0
25°	941.1	946.6	941.1	946.6	944.8	944.8	941.1	950.2
27.5°	889.8	893.4	887.9	895.2	893.4	889.8	891.5	893.4
30°	834.6	838.4	834.6	840.1	840.1	840.1	836.5	840.1
32.5°	779.6	785.1	779.6	785.1	783.4	783.4	781.5	785.1
35°	724.6	726.5	722.8	728.2	728.2	730.1	726.5	732.0
37.5°	667.8	669.6	667.8	669.6	673.2	667.8	671.4	673.2
40°	609.0	612.8	610.9	612.8	612.8	614.5	612.8	614.5
42.5°	550.4	554.0	550.4	555.9	554.0	554.0	555.9	555.9
45°	489.8	495.2	491.6	495.2	497.1	495.2	495.2	499.0
47.5°	432.9	436.6	434.8	436.6	436.6	436.6	436.6	440.2
50°	376.1	377.9	377.9	379.8	379.8	381.6	377.9	379.8
52.5°	319.2	322.9	322.9	322.9	321.0	322.9	322.9	322.9
55°	267.9	269.6	266.0	269.6	269.6	267.9	267.9	271.5
57.5°	218.2	218.2	218.2	218.2	218.2	216.5	218.2	218.2
60°	172.5	174.2	172.5	172.5	172.5	172.5	170.6	174.2
62.5°	133.9	133.9	132.1	133.9	133.9	133.9	135.8	135.8
65°	104.6	106.4	104.6	106.4	106.4	106.4	106.4	108.2
67.5°	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
70°	62.4	62.4	62.4	64.2	62.4	62.4	62.4	64.2
72.5°	45.9	45.9	45.9	45.9	45.9	45.9	47.8	47.8
75°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
77.5°	22.0	22.0	22.0	23.9	22.0	23.9	22.0	22.0
80°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
82.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	1.9	1.9	1.9	1.9
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)