

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: P252387

Luminaire Tested: **LE_6B30D010 EC6B30509730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252387
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_6B30D010 EC6B30509730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2493.8 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

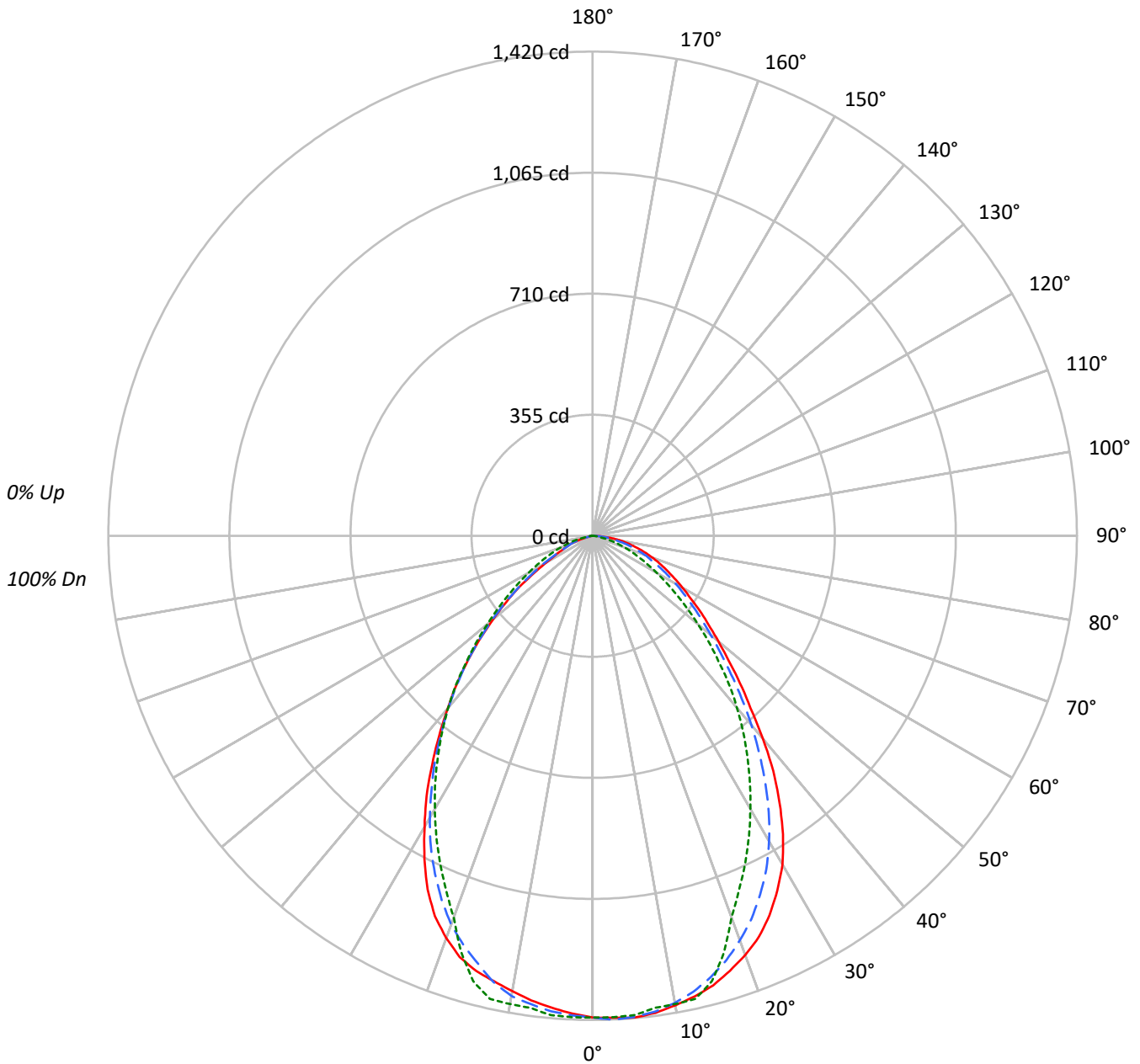
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	92185	92185	92185
5°	92897	92413	90972
10°	92627	92388	89838
15°	92208	91344	89237
20°	90839	82688	87139
25°	88369	76225	82430
30°	83914	69676	74234
35°	76140	62991	65324
40°	66106	56107	56260
45°	56383	48254	47747
50°	48799	40791	38558
55°	43621	34021	29846
60°	39745	28249	20107
65°	37111	23233	15005
70°	35365	18903	12590
75°	33299	13410	4159
80°	31710	6913	1353
85°	26124	4117	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	5.4
10°-20°	373.2	15.0
20°-30°	515.1	20.7
30°-40°	524.2	21.0
40°-50°	421.3	16.9
50°-60°	280.1	11.2
60°-70°	159.6	6.4
70°-80°	71.7	2.9
80°-90°	15.1	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°	1021.7	41.0
0°-40°	1545.9	62.0
0°-60°	2247.3	90.1
0°-90°	2493.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2493.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1413	1413	1413	1413	1413	
5°	1418	1417	1411	1400	1389	135
15°	1365	1340	1352	1299	1321	384
25°	1228	1162	1059	1094	1145	563
35°	956	883	791	806	820	594
45°	611	574	523	518	518	474
55°	384	358	299	266	262	345
65°	240	215	150	97	97	239
75°	132	110	53	22	16	141
85°	35	24	6	2	0	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°	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1414.9	1422.1	1420.4	1418.5	1420.4	1418.5	1414.9	1414.9	1411.1	1411.1	1420.4
5°	1418.5	1422.1	1420.4	1418.5	1418.5	1420.4	1413.0	1413.0	1409.2	1407.5	1416.6
7.5°	1411.1	1416.6	1413.0	1413.0	1411.1	1413.0	1405.6	1405.6	1400.1	1398.2	1407.5
10°	1398.2	1405.6	1402.0	1402.0	1402.0	1398.2	1394.6	1392.8	1387.2	1385.5	1391.0
12.5°	1383.6	1389.1	1387.2	1383.6	1383.6	1383.6	1376.2	1374.5	1367.1	1363.4	1369.0
15°	1365.2	1369.0	1367.1	1365.2	1361.6	1361.6	1354.2	1350.6	1343.2	1335.9	1339.6
17.5°	1337.8	1343.2	1339.6	1337.8	1332.2	1332.2	1324.9	1321.2	1310.2	1302.9	1304.8
20°	1308.4	1310.2	1308.4	1304.8	1299.2	1297.4	1290.0	1282.8	1273.5	1264.4	1262.5
22.5°	1273.5	1275.4	1269.9	1266.1	1260.6	1258.9	1249.6	1244.1	1229.5	1218.5	1216.6
25°	1227.6	1229.5	1229.5	1220.2	1216.6	1213.0	1203.8	1194.6	1181.8	1167.1	1161.6
27.5°	1172.6	1178.1	1174.4	1165.2	1157.9	1156.1	1146.9	1139.5	1123.0	1110.2	1102.9
30°	1113.9	1112.0	1110.2	1104.8	1093.6	1091.9	1082.6	1073.5	1060.6	1044.1	1035.0
32.5°	1038.6	1038.6	1036.8	1031.2	1020.2	1016.6	1009.2	998.2	983.6	970.8	961.5
35°	956.0	957.9	956.0	945.0	937.8	934.0	930.4	917.5	904.6	890.0	882.6
37.5°	869.8	864.2	866.1	857.0	847.8	851.5	840.5	835.0	820.2	809.2	801.9
40°	776.2	779.9	772.5	768.9	763.4	757.9	757.9	748.8	741.4	728.5	724.9
42.5°	684.5	690.0	688.1	684.5	677.1	679.0	669.8	666.1	657.0	651.5	645.9
45°	611.1	611.1	611.1	607.4	605.6	601.9	596.4	590.9	585.4	578.0	574.4
47.5°	539.5	539.5	541.4	537.6	534.0	532.1	528.5	528.5	519.4	512.0	508.2
50°	480.8	480.8	480.8	477.1	473.5	473.5	469.8	466.1	460.6	455.1	451.4
52.5°	427.6	427.6	427.6	423.9	422.0	420.2	418.4	416.5	409.2	405.5	401.9
55°	383.5	381.8	381.8	379.9	376.1	376.1	374.4	370.6	365.1	359.6	357.9
57.5°	339.5	341.4	339.5	339.5	335.8	335.8	332.1	330.2	324.8	321.1	317.5
60°	304.6	304.6	304.6	302.8	299.1	301.0	297.2	295.5	289.9	284.4	280.8
62.5°	269.8	271.6	271.6	269.8	266.1	266.1	264.2	262.4	256.9	251.4	245.9
65°	240.4	240.4	240.4	238.5	236.8	236.8	234.9	233.0	227.5	220.2	214.8
67.5°	212.9	211.0	211.0	211.0	209.2	207.4	205.5	203.8	198.1	192.6	185.4
70°	185.4	185.4	185.4	183.5	179.9	181.6	179.9	178.0	172.5	167.0	161.5
72.5°	159.6	159.6	157.9	156.0	156.0	154.1	154.1	152.2	146.8	139.5	134.0
75°	132.1	132.1	132.1	132.1	128.5	130.2	126.6	124.8	121.1	115.6	110.1
77.5°	108.2	108.2	108.2	106.4	104.6	104.6	102.8	100.9	95.4	91.8	84.4
80°	84.4	84.4	84.4	84.4	82.6	80.8	78.9	77.1	73.4	67.9	62.4
82.5°	62.4	62.4	60.5	60.5	60.5	58.8	56.9	55.0	51.4	47.8	44.0
85°	34.9	36.8	36.8	33.0	34.9	33.0	33.0	29.4	29.4	25.8	23.9
87.5°	12.9	11.0	11.0	11.0	11.0	11.0	11.0	9.1	9.1	9.1	7.4
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°	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1413.0	1411.1	1418.5	1418.5	1407.5	1413.0	1414.9	1411.1	1411.1	1413.0	1407.5
5°	1409.2	1405.6	1413.0	1414.9	1403.8	1409.2	1411.1	1407.5	1409.2	1411.1	1403.8
7.5°	1396.5	1396.5	1402.0	1403.8	1392.8	1398.2	1398.2	1394.6	1396.5	1396.5	1391.0
10°	1383.6	1378.1	1383.6	1383.6	1374.5	1376.2	1380.0	1378.1	1385.5	1394.6	1394.6
12.5°	1359.8	1354.2	1363.4	1363.4	1357.9	1365.2	1374.5	1380.0	1387.2	1391.0	1380.0
15°	1330.4	1332.2	1348.8	1361.6	1356.1	1367.1	1376.2	1372.6	1363.4	1352.4	1335.9
17.5°	1291.9	1286.4	1301.0	1308.4	1301.0	1304.8	1312.0	1304.8	1290.0	1280.9	1258.9
20°	1247.9	1233.1	1233.1	1229.5	1216.6	1216.6	1214.8	1202.0	1196.5	1191.0	1181.8
22.5°	1198.2	1181.8	1176.2	1165.2	1154.2	1152.4	1146.9	1134.0	1126.8	1123.0	1112.0
25°	1141.4	1126.8	1117.5	1106.5	1090.0	1086.4	1080.9	1068.0	1064.4	1058.9	1049.6
27.5°	1082.6	1064.4	1051.5	1040.5	1025.8	1024.0	1013.0	1003.8	996.4	992.8	985.4
30°	1014.8	994.6	985.4	970.8	959.8	956.0	946.9	934.0	928.5	924.9	919.4
32.5°	939.5	923.0	913.9	901.0	886.4	888.1	877.1	866.1	862.5	858.8	853.2
35°	866.1	849.6	838.6	827.6	818.4	814.8	807.4	798.2	792.8	790.9	787.2
37.5°	785.4	772.5	763.4	752.4	745.0	741.4	737.6	728.5	724.9	724.9	717.5
40°	706.5	695.5	688.1	682.6	673.5	671.6	668.0	662.5	660.6	658.8	653.2
42.5°	634.9	620.2	614.8	611.1	605.6	601.9	600.0	596.4	594.5	592.8	587.2
45°	567.0	554.1	548.6	545.0	539.5	537.6	535.9	530.4	526.6	523.0	521.1
47.5°	501.0	491.8	490.0	480.8	477.1	473.5	469.8	466.1	464.2	462.4	455.1
50°	444.1	438.6	429.4	423.9	420.2	418.4	411.0	405.5	403.8	401.9	396.4
52.5°	392.8	385.4	379.9	370.6	368.9	365.1	361.5	354.1	350.5	348.6	343.1
55°	346.9	341.4	334.0	326.6	321.1	319.2	313.8	306.5	302.8	299.1	295.5
57.5°	308.2	299.1	291.8	284.4	280.8	275.2	269.8	266.1	260.6	255.1	249.6
60°	271.6	264.2	255.1	247.8	244.0	240.4	233.0	227.5	222.0	216.5	211.0
62.5°	236.8	229.4	220.2	212.9	209.2	205.5	198.1	192.6	187.1	181.6	174.4
65°	205.5	198.1	190.9	183.5	179.9	176.1	168.9	161.5	156.0	150.5	143.1
67.5°	179.9	170.6	163.4	156.0	152.2	148.6	141.2	135.8	128.5	123.0	115.6
70°	152.2	145.0	139.5	132.1	128.5	124.8	117.5	110.1	104.6	99.1	91.8
72.5°	128.5	119.2	113.8	106.4	102.8	100.9	93.6	88.1	82.6	75.2	69.8
75°	102.8	95.4	88.1	82.6	78.9	77.1	69.8	64.2	58.8	53.2	47.8
77.5°	78.9	73.4	66.0	60.5	56.9	55.0	47.8	42.2	36.8	33.0	27.5
80°	58.8	51.4	47.8	42.2	40.4	36.8	33.0	27.5	23.9	18.4	14.6
82.5°	40.4	34.9	31.2	27.5	25.8	23.9	20.1	16.5	12.9	11.0	9.1
85°	22.0	18.4	16.5	14.6	12.9	12.9	11.0	9.1	7.4	5.5	3.6
87.5°	7.4	5.5	5.5	5.5	5.5	3.6	3.6	3.6	1.9	1.9	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°	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1411.1	1411.1	1411.1	1409.2	1409.2	1409.2	1407.5	1414.9	1407.5	1405.6	1411.1
5°	1409.2	1405.6	1405.6	1405.6	1405.6	1403.8	1402.0	1405.6	1400.1	1398.2	1398.2
7.5°	1398.2	1396.5	1396.5	1394.6	1392.8	1391.0	1389.1	1391.0	1385.5	1383.6	1383.6
10°	1400.1	1396.5	1396.5	1391.0	1387.2	1381.8	1376.2	1378.1	1370.8	1365.2	1365.2
12.5°	1378.1	1369.0	1363.4	1357.9	1354.2	1352.4	1345.1	1348.8	1341.4	1339.6	1339.6
15°	1328.6	1317.5	1308.4	1304.8	1304.8	1301.0	1295.5	1302.9	1299.2	1301.0	1310.2
17.5°	1251.5	1246.0	1240.5	1238.6	1240.5	1244.1	1247.9	1258.9	1258.9	1264.4	1273.5
20°	1183.6	1179.9	1183.6	1183.6	1185.4	1192.8	1200.1	1209.2	1213.0	1218.5	1231.2
22.5°	1117.5	1117.5	1121.2	1126.8	1124.9	1137.8	1139.5	1156.1	1156.1	1167.1	1178.1
25°	1053.2	1053.2	1057.0	1058.9	1062.5	1069.9	1077.1	1090.0	1093.6	1104.8	1113.9
27.5°	990.9	989.1	989.1	990.9	994.6	1003.8	1007.4	1022.1	1027.6	1035.0	1044.1
30°	921.2	919.4	923.0	926.8	924.9	934.0	939.5	950.5	954.2	961.5	968.9
32.5°	855.1	855.1	855.1	858.8	858.8	866.1	866.1	879.0	879.0	884.5	891.9
35°	787.2	787.2	789.1	790.9	792.8	794.6	796.4	803.8	805.6	807.4	811.1
37.5°	723.0	721.1	723.0	723.0	719.4	726.6	726.6	734.0	728.5	734.0	735.9
40°	657.0	657.0	655.1	655.1	655.1	658.8	655.1	660.6	657.0	660.6	658.8
42.5°	589.0	589.0	585.4	589.0	587.2	587.2	587.2	590.9	585.4	589.0	590.9
45°	521.1	519.4	519.4	517.5	517.5	517.5	519.4	519.4	517.5	521.1	521.1
47.5°	455.1	453.2	453.2	453.2	453.2	455.1	449.6	453.2	449.6	449.6	449.6
50°	398.2	396.4	394.5	392.8	390.9	390.9	389.0	389.0	385.4	383.5	381.8
52.5°	343.1	341.4	337.6	337.6	335.8	334.0	328.5	328.5	323.0	321.1	321.1
55°	293.6	288.1	286.2	282.6	282.6	278.9	275.2	271.6	266.1	262.4	262.4
57.5°	247.8	242.2	238.5	236.8	234.9	231.2	223.9	222.0	214.8	212.9	211.0
60°	207.4	201.9	196.4	192.6	190.9	185.4	178.0	174.4	170.6	165.1	159.6
62.5°	168.9	163.4	156.0	154.1	150.5	145.0	139.5	134.0	130.2	124.8	121.1
65°	135.8	130.2	124.8	121.1	117.5	111.9	106.4	100.9	97.2	95.4	93.6
67.5°	110.1	102.8	97.2	95.4	91.8	88.1	82.6	80.8	77.1	77.1	77.1
70°	86.2	80.8	75.2	73.4	71.6	67.9	64.2	64.2	64.2	64.2	64.2
72.5°	64.2	60.5	55.0	53.2	51.4	49.5	45.9	47.8	45.9	45.9	45.9
75°	40.4	36.8	33.0	31.2	29.4	27.5	25.8	23.9	22.0	20.1	20.1
77.5°	22.0	18.4	16.5	14.6	14.6	12.9	11.0	11.0	9.1	9.1	9.1
80°	12.9	11.0	9.1	7.4	7.4	5.5	5.5	5.5	5.5	3.6	3.6
82.5°	7.4	5.5	3.6	3.6	3.6	3.6	1.9	1.9	1.9	1.9	1.9
85°	3.6	3.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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	0.0	0.0	0.0



TEST NUMBER: P252387

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1402.0	1407.5	1402.0	1407.5	1407.5	1407.5	1407.5	1402.0
5°	1392.8	1396.5	1391.0	1394.6	1396.5	1394.6	1394.6	1389.1
7.5°	1376.2	1380.0	1374.5	1380.0	1381.8	1380.0	1378.1	1374.5
10°	1359.8	1361.6	1356.1	1359.8	1363.4	1363.4	1361.6	1356.1
12.5°	1334.1	1339.6	1334.1	1337.8	1341.4	1343.2	1343.2	1337.8
15°	1304.8	1313.9	1310.2	1315.8	1321.2	1323.1	1323.1	1321.2
17.5°	1275.4	1284.5	1279.0	1288.2	1293.8	1297.4	1299.2	1295.5
20°	1233.1	1244.1	1240.5	1247.9	1255.1	1260.6	1260.6	1255.1
22.5°	1178.1	1192.8	1191.0	1196.5	1205.6	1207.5	1211.1	1207.5
25°	1117.5	1128.5	1126.8	1132.2	1143.2	1143.2	1145.1	1145.1
27.5°	1047.8	1058.9	1057.0	1060.6	1068.0	1069.9	1071.6	1068.0
30°	972.6	978.1	978.1	983.6	989.1	990.9	990.9	985.4
32.5°	890.0	897.4	901.0	899.1	904.6	908.4	906.5	906.5
35°	814.8	816.6	818.4	820.2	822.1	825.8	822.1	820.2
37.5°	734.0	739.5	735.9	739.5	743.2	741.4	739.5	739.5
40°	660.6	662.5	658.8	662.5	664.2	664.2	664.2	660.6
42.5°	587.2	590.9	587.2	590.9	590.9	590.9	590.9	589.0
45°	513.8	517.5	517.5	519.4	519.4	517.5	517.5	517.5
47.5°	445.9	449.6	445.9	449.6	451.4	447.8	447.8	447.8
50°	381.8	379.9	379.9	381.8	381.8	381.8	381.8	379.9
52.5°	315.6	317.5	317.5	317.5	319.2	317.5	319.2	319.2
55°	258.8	258.8	258.8	260.6	258.8	258.8	260.6	262.4
57.5°	207.4	205.5	203.8	203.8	205.5	203.8	203.8	203.8
60°	159.6	157.9	156.0	156.0	156.0	156.0	156.0	154.1
62.5°	119.2	119.2	119.2	121.1	121.1	121.1	121.1	123.0
65°	95.4	95.4	95.4	95.4	95.4	95.4	95.4	97.2
67.5°	77.1	77.1	77.1	78.9	78.9	78.9	78.9	78.9
70°	64.2	64.2	66.0	64.2	66.0	66.0	66.0	66.0
72.5°	44.0	44.0	44.0	44.0	44.0	42.2	44.0	42.2
75°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	16.5
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	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)