

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: P252381

Luminaire Tested: **LE\_6B30D010 EC6B30509027 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252381  
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 EC6B30509027 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2743.7 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

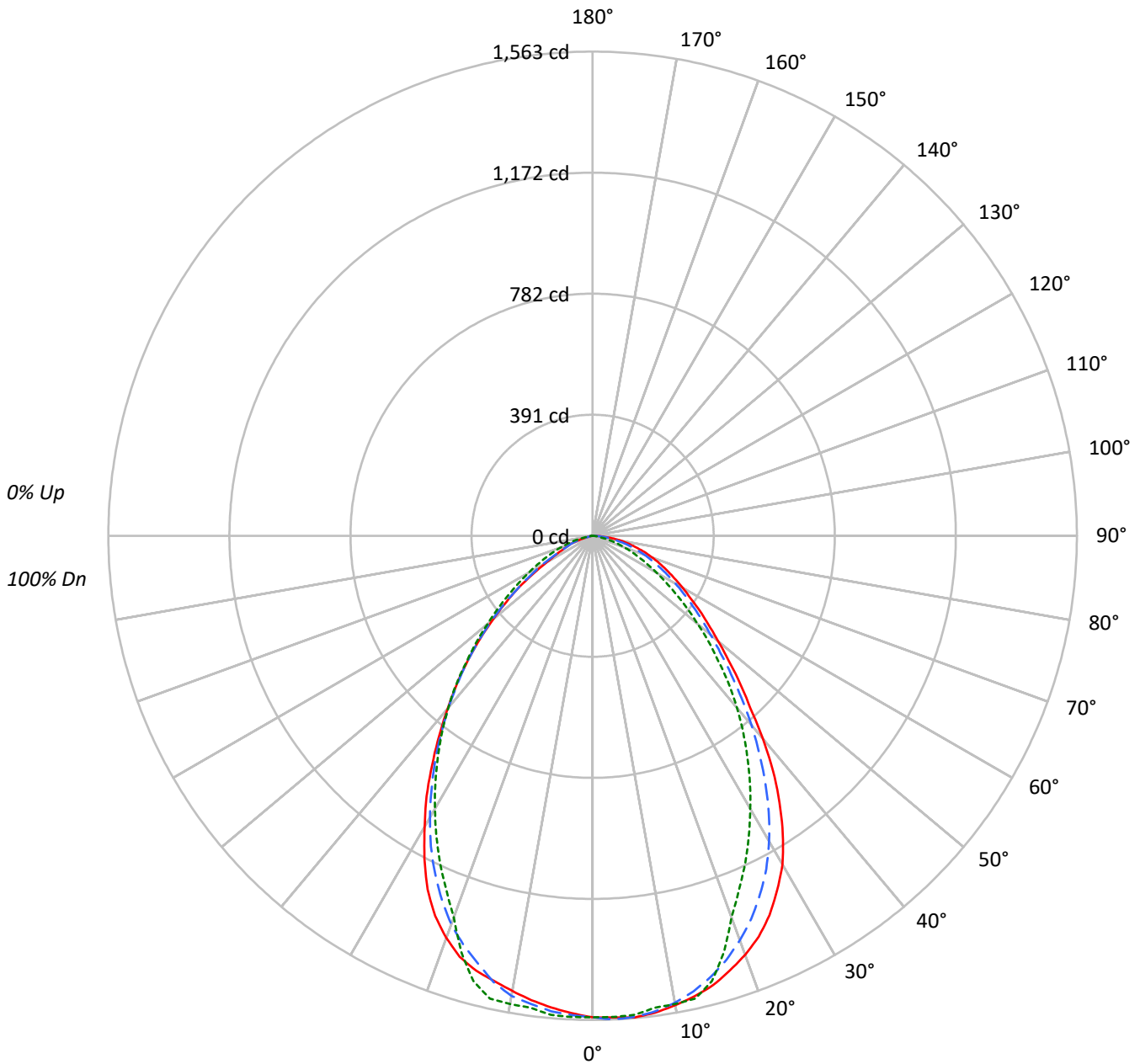
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			33

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

	0°	90°	180°
0°	101423	101423	101423
5°	102217	101680	100095
10°	101921	101656	98841
15°	101455	100503	98179
20°	99941	90978	95880
25°	97237	83863	90694
30°	92321	76659	81676
35°	83778	69306	71879
40°	72731	61737	61907
45°	62038	53089	52535
50°	53692	44872	42415
55°	48000	37433	32849
60°	43724	31081	22130
65°	40832	25549	16518
70°	38894	20792	13849
75°	36651	14746	4562
80°	34903	7589	1503
85°	28744	4491	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	5.4
10°-20°	410.6	15.0
20°-30°	566.8	20.7
30°-40°	576.7	21.0
40°-50°	463.5	16.9
50°-60°	308.2	11.2
60°-70°	175.6	6.4
70°-80°	78.9	2.9
80°-90°	16.6	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°	1124.2	41.0
0°-40°	1700.9	62.0
0°-60°	2472.6	90.1
0°-90°	2743.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1555	1555	1555	1555	1555	
5°	1561	1559	1553	1540	1528	148
15°	1502	1474	1488	1430	1454	423
25°	1351	1278	1165	1203	1260	619
35°	1052	971	870	886	902	654
45°	672	632	575	569	569	521
55°	422	394	329	293	289	379
65°	264	236	166	107	107	263
75°	145	121	58	24	18	155
85°	38	26	6	2	0	46
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°	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6
2.5°	1556.6	1564.8	1562.8	1560.8	1562.8	1560.8	1556.6	1556.6	1552.6	1552.6	1562.8
5°	1560.8	1564.8	1562.8	1560.8	1560.8	1562.8	1554.6	1554.6	1550.6	1548.6	1558.6
7.5°	1552.6	1558.6	1554.6	1554.6	1552.6	1554.6	1546.5	1546.5	1540.5	1538.5	1548.6
10°	1538.5	1546.5	1542.5	1542.5	1542.5	1538.5	1534.5	1532.4	1526.4	1524.4	1530.4
12.5°	1522.4	1528.4	1526.4	1522.4	1522.4	1522.4	1514.2	1512.2	1504.1	1500.1	1506.1
15°	1502.1	1506.1	1504.1	1502.1	1498.1	1498.1	1490.0	1486.0	1477.9	1469.9	1473.9
17.5°	1471.9	1477.9	1473.9	1471.9	1465.8	1465.8	1457.8	1453.6	1441.6	1433.5	1435.5
20°	1439.5	1441.6	1439.5	1435.5	1429.5	1427.4	1419.4	1411.2	1401.2	1391.1	1389.1
22.5°	1401.2	1403.2	1397.1	1393.1	1387.0	1385.0	1375.0	1368.9	1352.8	1340.6	1338.6
25°	1350.8	1352.8	1352.8	1342.6	1338.6	1334.5	1324.5	1314.4	1300.2	1284.1	1278.0
27.5°	1290.1	1296.2	1292.1	1282.1	1274.0	1272.0	1261.9	1253.8	1235.6	1221.5	1213.4
30°	1225.5	1223.5	1221.5	1215.5	1203.4	1201.2	1191.2	1181.1	1167.0	1148.8	1138.8
32.5°	1142.8	1142.8	1140.8	1134.6	1122.6	1118.5	1110.5	1098.4	1082.1	1068.0	1058.0
35°	1051.9	1053.9	1051.9	1039.8	1031.8	1027.6	1023.6	1009.5	995.4	979.2	971.1
37.5°	957.0	951.0	953.0	942.9	932.8	936.9	924.8	918.6	902.5	890.4	882.2
40°	854.0	858.1	850.0	846.0	839.9	833.9	833.9	823.8	815.6	801.5	797.5
42.5°	753.1	759.1	757.1	753.1	745.0	747.0	736.9	732.9	722.8	716.8	710.8
45°	672.4	672.4	672.4	668.2	666.2	662.2	656.1	650.1	644.0	636.0	632.0
47.5°	593.6	593.6	595.6	591.6	587.5	585.5	581.5	581.5	571.4	563.2	559.2
50°	529.0	529.0	529.0	525.0	520.9	520.9	516.9	512.9	506.8	500.8	496.6
52.5°	470.4	470.4	470.4	466.4	464.4	462.4	460.4	458.4	450.2	446.2	442.1
55°	422.0	420.0	420.0	417.9	413.9	413.9	411.9	407.9	401.8	395.8	393.8
57.5°	373.5	375.5	373.5	373.5	369.5	369.5	365.5	363.4	357.4	353.4	349.2
60°	335.1	335.1	335.1	333.1	329.1	331.1	327.1	325.0	319.0	313.0	308.9
62.5°	296.8	298.8	298.8	296.8	292.8	292.8	290.8	288.8	282.6	276.6	270.5
65°	264.5	264.5	264.5	262.5	260.5	260.5	258.4	256.4	250.4	242.2	236.2
67.5°	234.2	232.1	232.1	232.1	230.1	228.1	226.1	224.1	218.0	212.0	203.9
70°	203.9	203.9	203.9	201.9	197.9	199.9	197.9	195.9	189.8	183.8	177.6
72.5°	175.6	175.6	173.6	171.6	171.6	169.6	169.6	167.6	161.5	153.5	147.4
75°	145.4	145.4	145.4	145.4	141.4	143.4	139.2	137.2	133.2	127.2	121.1
77.5°	119.1	119.1	119.1	117.1	115.1	115.1	113.1	111.0	105.0	101.0	92.9
80°	92.9	92.9	92.9	92.9	90.9	88.9	86.9	84.8	80.8	74.8	68.6
82.5°	68.6	68.6	66.6	66.6	66.6	64.6	62.6	60.6	56.5	52.5	48.5
85°	38.4	40.4	40.4	36.4	38.4	36.4	36.4	32.2	32.2	28.2	26.2
87.5°	14.1	12.1	12.1	12.1	12.1	12.1	12.1	10.1	10.1	10.1	8.1
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°	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6
2.5°	1554.6	1552.6	1560.8	1560.8	1548.6	1554.6	1556.6	1552.6	1552.6	1554.6	1548.6
5°	1550.6	1546.5	1554.6	1556.6	1544.5	1550.6	1552.6	1548.6	1550.6	1552.6	1544.5
7.5°	1536.5	1536.5	1542.5	1544.5	1532.4	1538.5	1538.5	1534.5	1536.5	1536.5	1530.4
10°	1522.4	1516.2	1522.4	1522.4	1512.2	1514.2	1518.2	1516.2	1524.4	1534.5	1534.5
12.5°	1496.1	1490.0	1500.1	1500.1	1494.0	1502.1	1512.2	1518.2	1526.4	1530.4	1518.2
15°	1463.8	1465.8	1484.0	1498.1	1492.0	1504.1	1514.2	1510.2	1500.1	1488.0	1469.9
17.5°	1421.4	1415.4	1431.5	1439.5	1431.5	1435.5	1443.6	1435.5	1419.4	1409.2	1385.0
20°	1372.9	1356.8	1356.8	1352.8	1338.6	1338.6	1336.6	1322.5	1316.4	1310.4	1300.2
22.5°	1318.4	1300.2	1294.1	1282.1	1270.0	1267.9	1261.9	1247.8	1239.6	1235.6	1223.5
25°	1255.9	1239.6	1229.6	1217.5	1199.2	1195.2	1189.2	1175.0	1171.0	1165.0	1154.9
27.5°	1191.2	1171.0	1156.9	1144.8	1128.6	1126.6	1114.5	1104.4	1096.4	1092.2	1084.2
30°	1116.5	1094.2	1084.2	1068.0	1056.0	1051.9	1041.8	1027.6	1021.6	1017.6	1011.5
32.5°	1033.8	1015.5	1005.5	991.4	975.1	977.2	965.1	953.0	948.9	944.9	938.9
35°	953.0	934.8	922.6	910.6	900.5	896.4	888.4	878.2	872.2	870.2	866.1
37.5°	864.1	850.0	839.9	827.8	819.8	815.6	811.6	801.5	797.5	797.5	789.4
40°	777.4	765.2	757.1	751.1	741.0	739.0	734.9	728.9	726.9	724.9	718.8
42.5°	698.6	682.4	676.4	672.4	666.2	662.2	660.2	656.1	654.1	652.1	646.1
45°	623.9	609.8	603.6	599.6	593.6	591.6	589.5	583.5	579.5	575.4	573.4
47.5°	551.2	541.1	539.1	529.0	525.0	520.9	516.9	512.9	510.8	508.8	500.8
50°	488.6	482.5	472.5	466.4	462.4	460.4	452.2	446.2	444.1	442.1	436.1
52.5°	432.1	424.0	417.9	407.9	405.9	401.8	397.8	389.6	385.6	383.6	377.5
55°	381.6	375.5	367.5	359.4	353.4	351.2	345.2	337.1	333.1	329.1	325.0
57.5°	339.2	329.1	321.0	313.0	308.9	302.9	296.8	292.8	286.8	280.6	274.6
60°	298.8	290.8	280.6	272.6	268.5	264.5	256.4	250.4	244.2	238.2	232.1
62.5°	260.5	252.4	242.2	234.2	230.1	226.1	218.0	212.0	206.0	199.9	191.8
65°	226.1	218.0	210.0	201.9	197.9	193.9	185.8	177.6	171.6	165.5	157.5
67.5°	197.9	187.8	179.8	171.6	167.6	163.5	155.5	149.4	141.4	135.2	127.2
70°	167.6	159.5	153.5	145.4	141.4	137.2	129.2	121.1	115.1	109.0	101.0
72.5°	141.4	131.2	125.1	117.1	113.1	111.0	103.0	96.9	90.9	82.8	76.8
75°	113.1	105.0	96.9	90.9	86.9	84.8	76.8	70.6	64.6	58.5	52.5
77.5°	86.9	80.8	72.6	66.6	62.6	60.6	52.5	46.4	40.4	36.4	30.2
80°	64.6	56.5	52.5	46.4	44.4	40.4	36.4	30.2	26.2	20.2	16.1
82.5°	44.4	38.4	34.4	30.2	28.2	26.2	22.2	18.1	14.1	12.1	10.1
85°	24.2	20.2	18.1	16.1	14.1	14.1	12.1	10.1	8.1	6.0	4.0
87.5°	8.1	6.0	6.0	6.0	6.0	4.0	4.0	4.0	2.0	2.0	2.0
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°	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6
2.5°	1552.6	1552.6	1552.6	1550.6	1550.6	1550.6	1548.6	1556.6	1548.6	1546.5	1552.6
5°	1550.6	1546.5	1546.5	1546.5	1546.5	1544.5	1542.5	1546.5	1540.5	1538.5	1538.5
7.5°	1538.5	1536.5	1536.5	1534.5	1532.4	1530.4	1528.4	1530.4	1524.4	1522.4	1522.4
10°	1540.5	1536.5	1536.5	1530.4	1526.4	1520.2	1514.2	1516.2	1508.2	1502.1	1502.1
12.5°	1516.2	1506.1	1500.1	1494.0	1490.0	1488.0	1479.9	1484.0	1475.9	1473.9	1473.9
15°	1461.8	1449.6	1439.5	1435.5	1435.5	1431.5	1425.4	1433.5	1429.5	1431.5	1441.6
17.5°	1377.0	1370.9	1364.9	1362.9	1364.9	1368.9	1372.9	1385.0	1385.0	1391.1	1401.2
20°	1302.2	1298.2	1302.2	1302.2	1304.2	1312.4	1320.4	1330.5	1334.5	1340.6	1354.8
22.5°	1229.6	1229.6	1233.6	1239.6	1237.6	1251.8	1253.8	1272.0	1272.0	1284.1	1296.2
25°	1158.9	1158.9	1163.0	1165.0	1169.0	1177.1	1185.1	1199.2	1203.4	1215.5	1225.5
27.5°	1090.2	1088.2	1088.2	1090.2	1094.2	1104.4	1108.4	1124.6	1130.6	1138.8	1148.8
30°	1013.5	1011.5	1015.5	1019.6	1017.6	1027.6	1033.8	1045.9	1049.9	1058.0	1066.0
32.5°	940.9	940.9	940.9	944.9	944.9	953.0	953.0	967.1	967.1	973.1	981.2
35°	866.1	866.1	868.1	870.2	872.2	874.2	876.2	884.4	886.4	888.4	892.4
37.5°	795.5	793.5	795.5	795.5	791.5	799.5	799.5	807.6	801.5	807.6	809.6
40°	722.8	722.8	720.8	720.8	720.8	724.9	720.8	726.9	722.8	726.9	724.9
42.5°	648.1	648.1	644.0	648.1	646.1	646.1	646.1	650.1	644.0	648.1	650.1
45°	573.4	571.4	571.4	569.4	569.4	569.4	571.4	571.4	569.4	573.4	573.4
47.5°	500.8	498.8	498.8	498.8	498.8	500.8	494.6	498.8	494.6	494.6	494.6
50°	438.1	436.1	434.1	432.1	430.0	430.0	428.0	428.0	424.0	422.0	420.0
52.5°	377.5	375.5	371.5	371.5	369.5	367.5	361.4	361.4	355.4	353.4	353.4
55°	323.0	317.0	315.0	310.9	310.9	306.9	302.9	298.8	292.8	288.8	288.8
57.5°	272.6	266.5	262.5	260.5	258.4	254.4	246.4	244.2	236.2	234.2	232.1
60°	228.1	222.1	216.0	212.0	210.0	203.9	195.9	191.8	187.8	181.8	175.6
62.5°	185.8	179.8	171.6	169.6	165.5	159.5	153.5	147.4	143.4	137.2	133.2
65°	149.4	143.4	137.2	133.2	129.2	123.1	117.1	111.0	107.0	105.0	103.0
67.5°	121.1	113.1	107.0	105.0	101.0	96.9	90.9	88.9	84.8	84.8	84.8
70°	94.9	88.9	82.8	80.8	78.8	74.8	70.6	70.6	70.6	70.6	70.6
72.5°	70.6	66.6	60.6	58.5	56.5	54.5	50.5	52.5	50.5	50.5	50.5
75°	44.4	40.4	36.4	34.4	32.2	30.2	28.2	26.2	24.2	22.2	22.2
77.5°	24.2	20.2	18.1	16.1	16.1	14.1	12.1	12.1	10.1	10.1	10.1
80°	14.1	12.1	10.1	8.1	8.1	6.0	6.0	6.0	6.0	4.0	4.0
82.5°	8.1	6.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
85°	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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	0.0	0.0	0.0





TEST NUMBER: P252381

CATALOG NUMBER: LE\_6B30D010 EC6B30509027 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6
2.5°	1542.5	1548.6	1542.5	1548.6	1548.6	1548.6	1548.6	1542.5
5°	1532.4	1536.5	1530.4	1534.5	1536.5	1534.5	1534.5	1528.4
7.5°	1514.2	1518.2	1512.2	1518.2	1520.2	1518.2	1516.2	1512.2
10°	1496.1	1498.1	1492.0	1496.1	1500.1	1500.1	1498.1	1492.0
12.5°	1467.9	1473.9	1467.9	1471.9	1475.9	1477.9	1477.9	1471.9
15°	1435.5	1445.6	1441.6	1447.6	1453.6	1455.8	1455.8	1453.6
17.5°	1403.2	1413.2	1407.2	1417.4	1423.4	1427.4	1429.5	1425.4
20°	1356.8	1368.9	1364.9	1372.9	1381.0	1387.0	1387.0	1381.0
22.5°	1296.2	1312.4	1310.4	1316.4	1326.5	1328.5	1332.5	1328.5
25°	1229.6	1241.6	1239.6	1245.8	1257.9	1257.9	1259.9	1259.9
27.5°	1152.9	1165.0	1163.0	1167.0	1175.0	1177.1	1179.1	1175.0
30°	1070.1	1076.1	1076.1	1082.1	1088.2	1090.2	1090.2	1084.2
32.5°	979.2	987.2	991.4	989.2	995.4	999.4	997.4	997.4
35°	896.4	898.5	900.5	902.5	904.5	908.5	904.5	902.5
37.5°	807.6	813.6	809.6	813.6	817.8	815.6	813.6	813.6
40°	726.9	728.9	724.9	728.9	730.9	730.9	730.9	726.9
42.5°	646.1	650.1	646.1	650.1	650.1	650.1	650.1	648.1
45°	565.4	569.4	569.4	571.4	571.4	569.4	569.4	569.4
47.5°	490.6	494.6	490.6	494.6	496.6	492.6	492.6	492.6
50°	420.0	417.9	417.9	420.0	420.0	420.0	420.0	417.9
52.5°	347.2	349.2	349.2	349.2	351.2	349.2	351.2	351.2
55°	284.6	284.6	284.6	286.8	284.6	284.6	286.8	288.8
57.5°	228.1	226.1	224.1	224.1	226.1	224.1	224.1	224.1
60°	175.6	173.6	171.6	171.6	171.6	171.6	171.6	169.6
62.5°	131.2	131.2	131.2	133.2	133.2	133.2	133.2	135.2
65°	105.0	105.0	105.0	105.0	105.0	105.0	105.0	107.0
67.5°	84.8	84.8	84.8	86.9	86.9	86.9	86.9	86.9
70°	70.6	70.6	72.6	70.6	72.6	72.6	72.6	72.6
72.5°	48.5	48.5	48.5	48.5	48.5	46.4	48.5	46.4
75°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	18.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	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)