

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: P252694

Luminaire Tested: **LE\_6B30D010 EC6B30509030 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30509030 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2945.0 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

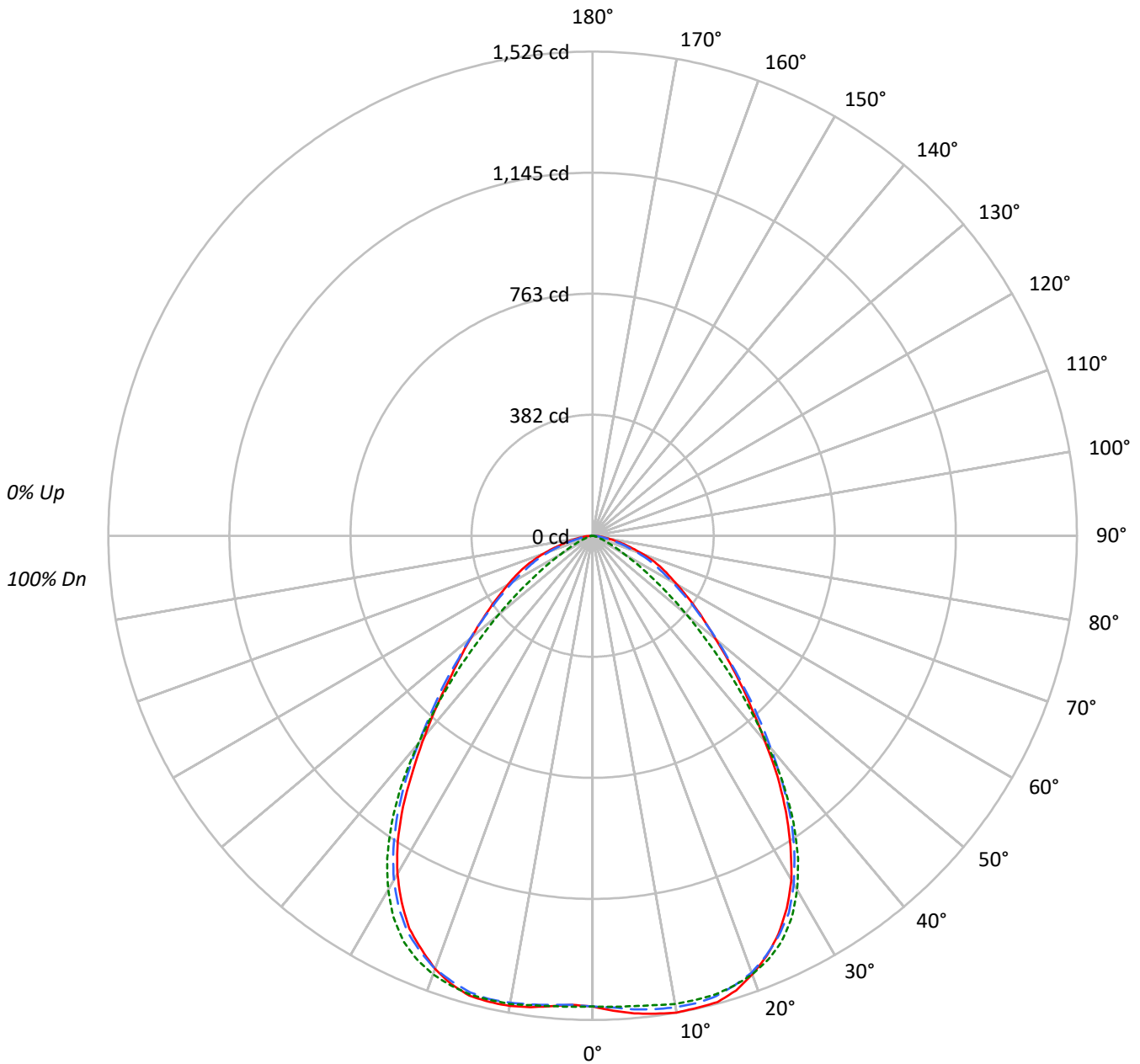
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78								
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61								
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44								
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33								

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

	0°	90°	180°
0°	96804	96804	96804
5°	98955	97449	97449
10°	101080	99271	99689
15°	102765	101070	101347
20°	102135	102135	100823
25°	99707	101513	98346
30°	94385	97075	92653
35°	84574	87919	82902
40°	71846	72740	70057
45°	60802	55580	58671
50°	51337	39188	50697
55°	45111	25308	44644
60°	39979	15058	40253
65°	36926	9077	36926
70°	32027	5188	31245
75°	25409	3176	23821
80°	18936	2329	18109
85°	17292	1572	15720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	4.9
10°-20°	422.8	14.4
20°-30°	635.8	21.6
30°-40°	668.5	22.7
40°-50°	499.4	17.0
50°-60°	310.9	10.6
60°-70°	176.8	6.0
70°-80°	72.8	2.5
80°-90°	15.1	0.5
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°	1201.5	40.8
0°-40°	1870.0	63.5
0°-60°	2680.3	91.0
0°-90°	2945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1484	1484	1484	1484	1484	
5°	1511	1498	1488	1484	1488	145
15°	1522	1503	1496	1490	1500	428
25°	1385	1389	1410	1379	1366	634
35°	1062	1089	1104	1072	1041	659
45°	659	674	602	661	636	511
55°	397	388	222	382	392	357
65°	239	214	59	214	239	236
75°	101	80	13	78	94	109
85°	23	15	2	13	21	26
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°	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8
2.5°	1498.5	1496.4	1498.5	1494.2	1492.1	1492.1	1494.2	1490.0	1488.0	1490.0	1488.0
5°	1511.0	1506.9	1509.0	1506.9	1502.6	1502.6	1504.8	1498.5	1498.5	1500.5	1498.5
7.5°	1519.4	1519.4	1519.4	1515.2	1513.1	1511.0	1515.2	1509.0	1506.9	1506.9	1504.8
10°	1525.8	1523.6	1525.8	1521.5	1517.4	1515.2	1519.4	1515.2	1511.0	1515.2	1509.0
12.5°	1523.6	1523.6	1523.6	1521.5	1517.4	1515.2	1519.4	1513.1	1511.0	1513.1	1509.0
15°	1521.5	1515.2	1517.4	1515.2	1509.0	1509.0	1511.0	1504.8	1500.5	1506.9	1502.6
17.5°	1502.6	1498.5	1500.5	1496.4	1492.1	1490.0	1492.1	1490.0	1485.9	1490.0	1485.9
20°	1471.1	1471.1	1473.2	1469.1	1464.9	1462.8	1467.0	1462.8	1458.6	1464.9	1464.9
22.5°	1433.4	1433.4	1433.4	1431.2	1429.2	1429.2	1429.2	1427.1	1425.0	1429.2	1431.2
25°	1385.1	1383.0	1385.1	1387.2	1385.1	1383.0	1385.1	1385.1	1380.9	1389.4	1389.4
27.5°	1324.2	1324.2	1328.5	1326.4	1326.4	1324.2	1328.5	1328.5	1326.4	1332.6	1339.0
30°	1252.9	1248.8	1252.9	1252.9	1255.0	1255.0	1257.1	1257.1	1257.1	1263.4	1267.6
32.5°	1160.5	1162.6	1169.0	1166.9	1164.8	1171.0	1171.0	1175.2	1177.4	1181.5	1183.6
35°	1061.9	1064.0	1064.0	1066.1	1070.4	1066.1	1076.6	1074.5	1076.6	1085.0	1089.2
37.5°	957.0	950.8	961.1	957.0	959.1	959.1	963.2	965.4	971.6	982.1	982.1
40°	843.6	845.8	850.0	852.0	854.1	854.1	854.1	860.5	862.5	875.1	873.0
42.5°	745.0	745.0	749.2	751.4	751.4	751.4	751.4	757.6	761.9	766.0	770.2
45°	659.0	652.6	656.9	656.9	661.1	659.0	663.1	667.4	669.5	675.8	673.6
47.5°	577.1	575.0	577.1	579.2	577.1	579.2	581.4	583.4	585.5	585.5	585.5
50°	505.8	505.8	507.9	510.0	510.0	510.0	510.0	512.1	512.1	516.2	512.1
52.5°	447.0	449.1	449.1	447.0	449.1	449.1	451.2	451.2	449.1	449.1	442.9
55°	396.6	394.5	396.6	394.5	396.6	396.6	394.5	394.5	392.5	390.4	388.2
57.5°	348.4	348.4	348.4	348.4	346.2	348.4	346.2	344.1	344.1	340.0	333.6
60°	306.4	306.4	306.4	306.4	306.4	304.2	306.4	304.2	300.1	295.9	287.5
62.5°	270.8	268.6	270.8	268.6	268.6	266.5	266.5	264.4	260.2	256.0	247.6
65°	239.2	241.4	239.2	239.2	237.1	235.0	235.0	233.0	226.6	222.5	214.1
67.5°	205.6	203.6	203.6	203.6	201.5	201.5	201.5	197.2	193.1	186.8	178.4
70°	167.9	167.9	167.9	165.8	165.8	163.8	163.8	161.6	157.4	153.2	142.8
72.5°	132.2	132.2	132.2	128.0	130.1	128.0	128.0	123.9	121.8	115.4	109.1
75°	100.8	100.8	98.6	98.6	96.5	94.5	94.5	92.4	90.2	86.0	79.8
77.5°	73.5	73.5	73.5	71.4	69.2	67.1	67.1	65.0	63.0	60.9	56.6
80°	50.4	50.4	50.4	50.4	48.2	46.1	46.1	44.1	44.1	42.0	37.8
82.5°	33.6	33.6	33.6	33.6	31.5	31.5	31.5	29.4	27.2	27.2	23.1
85°	23.1	23.1	21.0	21.0	21.0	21.0	18.9	18.9	16.8	14.8	14.8
87.5°	12.6	12.6	12.6	12.6	10.5	10.5	10.5	10.5	8.4	8.4	6.2
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°	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8
2.5°	1494.2	1494.2	1492.1	1485.9	1488.0	1485.9	1488.0	1485.9	1479.5	1485.9	1479.5
5°	1502.6	1504.8	1500.5	1492.1	1494.2	1492.1	1492.1	1490.0	1483.8	1488.0	1483.8
7.5°	1511.0	1509.0	1506.9	1498.5	1500.5	1498.5	1498.5	1494.2	1488.0	1492.1	1485.9
10°	1515.2	1515.2	1511.0	1502.6	1502.6	1500.5	1502.6	1500.5	1492.1	1498.5	1494.2
12.5°	1515.2	1513.1	1513.1	1502.6	1504.8	1502.6	1504.8	1500.5	1494.2	1498.5	1496.4
15°	1509.0	1509.0	1506.9	1496.4	1498.5	1498.5	1500.5	1496.4	1490.0	1496.4	1492.1
17.5°	1496.4	1496.4	1494.2	1485.9	1490.0	1490.0	1492.1	1488.0	1481.6	1485.9	1485.9
20°	1471.1	1473.2	1473.2	1467.0	1471.1	1471.1	1473.2	1471.1	1469.1	1471.1	1467.0
22.5°	1441.8	1446.0	1446.0	1439.6	1443.9	1443.9	1450.1	1448.1	1443.9	1446.0	1443.9
25°	1397.8	1401.9	1406.1	1401.9	1406.1	1406.1	1412.4	1410.2	1406.1	1410.2	1404.0
27.5°	1347.4	1349.5	1353.6	1349.5	1355.8	1353.6	1359.9	1357.9	1351.5	1357.9	1355.8
30°	1276.0	1284.4	1290.6	1284.4	1290.6	1290.6	1294.9	1292.8	1290.6	1288.6	1288.6
32.5°	1196.2	1204.6	1204.6	1202.5	1206.8	1206.8	1208.9	1204.6	1202.5	1204.6	1206.8
35°	1097.6	1101.8	1106.0	1103.9	1106.0	1108.1	1106.0	1108.1	1101.8	1103.9	1103.9
37.5°	990.6	994.8	994.8	988.5	992.6	992.6	988.5	988.5	984.2	988.5	980.1
40°	877.2	873.0	875.1	871.0	866.8	866.8	864.6	856.2	852.0	854.1	856.2
42.5°	766.0	766.0	759.8	749.2	738.8	738.8	732.4	728.2	719.9	724.0	722.0
45°	671.6	661.1	652.6	635.9	629.6	625.4	614.9	604.4	600.2	602.4	600.2
47.5°	581.4	572.9	552.0	528.9	522.6	516.2	503.6	491.1	486.9	482.8	482.8
50°	505.8	491.1	468.0	442.9	432.4	421.9	405.0	392.5	384.0	386.1	386.1
52.5°	436.5	419.8	392.5	361.0	348.4	335.8	321.1	306.4	300.1	298.0	298.0
55°	375.6	356.8	329.5	293.9	283.4	268.6	249.8	233.0	224.5	222.5	226.6
57.5°	321.1	304.2	272.9	237.1	224.5	209.9	191.0	176.2	165.8	163.8	165.8
60°	277.0	254.0	226.6	193.1	176.2	163.8	142.8	130.1	119.6	115.4	117.5
62.5°	233.0	212.0	184.6	151.1	138.5	125.9	107.0	92.4	84.0	81.9	84.0
65°	199.4	178.4	153.2	123.9	111.2	98.6	81.9	67.1	60.9	58.8	60.9
67.5°	165.8	146.9	125.9	98.6	88.1	77.6	60.9	50.4	42.0	39.9	42.0
70°	134.4	117.5	96.5	77.6	67.1	58.8	46.1	35.6	29.4	27.2	29.4
72.5°	100.8	88.1	73.5	56.6	50.4	44.1	33.6	25.1	21.0	18.9	21.0
75°	73.5	63.0	52.5	39.9	35.6	31.5	23.1	16.8	14.8	12.6	14.8
77.5°	50.4	44.1	35.6	27.2	23.1	21.0	14.8	12.6	10.5	8.4	8.4
80°	33.6	29.4	23.1	18.9	16.8	14.8	10.5	8.4	6.2	6.2	6.2
82.5°	21.0	16.8	14.8	10.5	8.4	8.4	6.2	4.2	4.2	4.2	4.2
85°	12.6	10.5	8.4	6.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	6.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	0.0	0.0	2.1
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8
2.5°	1483.8	1479.5	1479.5	1481.6	1483.8	1485.9	1481.6	1479.5	1479.5	1485.9	1481.6
5°	1483.8	1481.6	1481.6	1481.6	1485.9	1488.0	1483.8	1481.6	1483.8	1490.0	1488.0
7.5°	1490.0	1485.9	1488.0	1488.0	1490.0	1494.2	1490.0	1488.0	1490.0	1496.4	1492.1
10°	1494.2	1490.0	1492.1	1490.0	1496.4	1498.5	1494.2	1492.1	1494.2	1502.6	1500.5
12.5°	1496.4	1494.2	1494.2	1492.1	1498.5	1500.5	1496.4	1494.2	1496.4	1502.6	1500.5
15°	1492.1	1490.0	1490.0	1490.0	1494.2	1498.5	1492.1	1490.0	1490.0	1496.4	1494.2
17.5°	1483.8	1479.5	1479.5	1479.5	1481.6	1483.8	1477.5	1475.4	1473.2	1479.5	1477.5
20°	1469.1	1464.9	1460.6	1460.6	1462.8	1462.8	1458.6	1452.2	1452.2	1454.4	1450.1
22.5°	1441.8	1439.6	1435.5	1433.4	1437.6	1435.5	1427.1	1420.8	1418.8	1420.8	1416.6
25°	1404.0	1399.8	1397.8	1395.6	1397.8	1395.6	1387.2	1378.9	1378.9	1378.9	1372.5
27.5°	1351.5	1347.4	1345.2	1345.2	1347.4	1343.1	1334.8	1326.4	1322.1	1322.1	1315.9
30°	1284.4	1284.4	1282.2	1280.1	1278.1	1278.1	1265.5	1257.1	1252.9	1255.0	1250.8
32.5°	1202.5	1200.4	1198.4	1192.0	1194.1	1192.0	1181.5	1175.2	1169.0	1164.8	1162.6
35°	1097.6	1097.6	1095.5	1095.5	1095.5	1093.4	1082.9	1076.6	1072.4	1070.4	1064.0
37.5°	982.1	980.1	978.0	978.0	978.0	978.0	971.6	965.4	965.4	963.2	959.1
40°	852.0	854.1	856.2	854.1	860.5	866.8	858.4	854.1	852.0	858.4	850.0
42.5°	726.1	724.0	734.5	736.6	736.6	747.1	749.2	751.4	749.2	753.4	753.4
45°	604.4	602.4	612.8	617.0	627.5	640.1	646.4	656.9	661.1	665.2	661.1
47.5°	489.0	497.4	505.8	516.2	524.6	545.6	558.2	568.8	572.9	579.2	579.2
50°	392.5	400.9	415.5	423.9	434.4	459.6	480.6	495.2	503.6	510.0	507.9
52.5°	302.2	316.9	335.8	344.1	358.9	388.2	411.4	428.1	438.6	444.9	447.0
55°	233.0	245.5	264.4	277.0	291.8	323.2	352.6	371.5	382.0	390.4	394.5
57.5°	172.1	186.8	207.8	218.2	235.0	270.8	295.9	319.0	331.6	342.1	344.1
60°	125.9	140.6	159.5	172.1	188.9	224.5	254.0	274.9	289.6	298.0	302.2
62.5°	90.2	104.9	123.9	136.4	151.1	182.6	212.0	233.0	247.6	258.1	264.4
65°	65.0	79.8	98.6	109.1	121.8	151.1	178.4	199.4	214.1	226.6	230.9
67.5°	48.2	58.8	75.5	86.0	98.6	121.8	144.8	163.8	178.4	188.9	193.1
70°	35.6	44.1	58.8	65.0	73.5	94.5	113.4	130.1	142.8	151.1	155.2
72.5°	25.1	31.5	42.0	48.2	54.6	71.4	86.0	98.6	107.0	115.4	119.6
75°	16.8	21.0	29.4	33.6	37.8	50.4	60.9	71.4	77.6	84.0	86.0
77.5°	10.5	14.8	21.0	23.1	27.2	33.6	42.0	48.2	52.5	56.6	60.9
80°	6.2	8.4	12.6	14.8	16.8	23.1	27.2	31.5	35.6	39.9	42.0
82.5°	4.2	6.2	8.4	8.4	10.5	12.6	16.8	21.0	23.1	25.1	27.2
85°	2.1	2.1	4.2	4.2	6.2	6.2	8.4	10.5	12.6	14.8	16.8
87.5°	2.1	2.1	2.1	2.1	4.2	4.2	6.2	6.2	6.2	8.4	8.4
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: P252694

CATALOG NUMBER: LE\_6B30D010 EC6B30509030 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8	1483.8
2.5°	1477.5	1483.8	1477.5	1481.6	1479.5	1479.5	1477.5	1479.5
5°	1483.8	1492.1	1483.8	1490.0	1485.9	1485.9	1485.9	1488.0
7.5°	1490.0	1498.5	1492.1	1498.5	1496.4	1494.2	1494.2	1498.5
10°	1496.4	1502.6	1498.5	1504.8	1502.6	1500.5	1500.5	1504.8
12.5°	1496.4	1504.8	1500.5	1506.9	1504.8	1502.6	1502.6	1504.8
15°	1490.0	1500.5	1494.2	1500.5	1498.5	1496.4	1496.4	1500.5
17.5°	1471.1	1479.5	1475.4	1479.5	1479.5	1477.5	1479.5	1481.6
20°	1446.0	1452.2	1448.1	1452.2	1452.2	1448.1	1450.1	1452.2
22.5°	1410.2	1416.6	1412.4	1416.6	1414.5	1412.4	1412.4	1410.2
25°	1366.2	1374.6	1368.4	1372.5	1368.4	1364.1	1364.1	1366.2
27.5°	1311.6	1318.0	1309.6	1313.8	1309.6	1305.4	1305.4	1303.2
30°	1240.2	1242.4	1236.1	1240.2	1236.1	1234.0	1229.9	1229.9
32.5°	1154.2	1156.4	1150.1	1150.1	1145.9	1145.9	1137.5	1143.8
35°	1053.5	1055.6	1053.5	1051.4	1045.1	1043.0	1040.9	1040.9
37.5°	948.6	948.6	942.2	940.2	936.0	931.8	933.9	927.6
40°	841.6	839.5	833.1	835.2	833.1	826.9	824.8	822.6
42.5°	740.9	740.9	734.5	736.6	732.4	730.4	724.0	726.1
45°	652.6	652.6	646.4	646.4	644.2	638.0	640.1	635.9
47.5°	572.9	572.9	570.9	570.9	564.5	562.5	562.5	562.5
50°	503.6	503.6	503.6	503.6	501.6	499.5	497.4	499.5
52.5°	444.9	449.1	447.0	447.0	444.9	442.9	440.8	440.8
55°	392.5	394.5	394.5	396.6	394.5	392.5	394.5	392.5
57.5°	346.2	350.5	350.5	350.5	350.5	350.5	348.4	346.2
60°	306.4	308.5	308.5	310.6	310.6	310.6	308.5	308.5
62.5°	266.5	270.8	272.9	272.9	274.9	272.9	272.9	272.9
65°	235.0	239.2	241.4	239.2	241.4	241.4	239.2	239.2
67.5°	197.2	201.5	201.5	201.5	201.5	203.6	201.5	201.5
70°	159.5	163.8	161.6	163.8	163.8	163.8	163.8	163.8
72.5°	121.8	123.9	125.9	125.9	128.0	125.9	125.9	125.9
75°	88.1	92.4	92.4	92.4	92.4	94.5	94.5	94.5
77.5°	63.0	65.0	65.0	67.1	67.1	67.1	67.1	69.2
80°	44.1	44.1	46.1	46.1	48.2	48.2	48.2	48.2
82.5°	29.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5
85°	16.8	18.9	18.9	18.9	18.9	21.0	21.0	21.0
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	8.4	8.4
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)