

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: P252489

Luminaire Tested: **LE\_6B30D010 EC6B30509050 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252489  
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 EC6B30509050 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2733.7 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

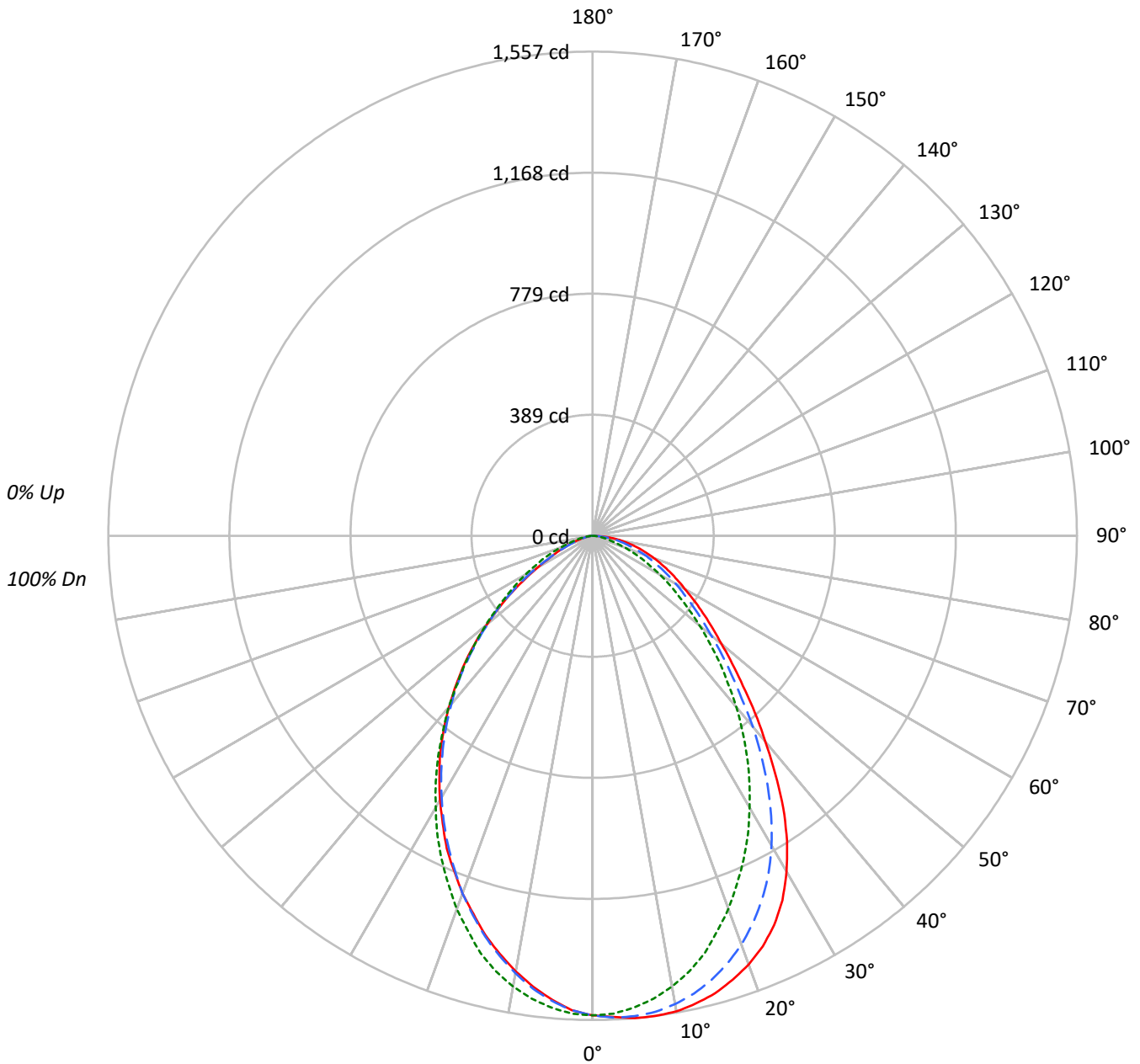
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	100614	100614	100614
5°	101981	99741	98051
10°	102882	97483	94217
15°	102867	93890	89838
20°	101864	88631	84917
25°	99455	82646	79867
30°	93911	76004	73902
35°	85132	68924	68064
40°	73515	61302	61115
45°	63035	53366	53753
50°	54788	45663	45004
55°	49205	38491	36057
60°	44729	32425	26553
65°	41989	26784	19513
70°	40039	20830	14306
75°	38340	15124	9705
80°	36218	10482	6425
85°	32113	6438	3144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	5.3
10°-20°	395.1	14.5
20°-30°	548.5	20.1
30°-40°	568.2	20.8
40°-50°	466.9	17.1
50°-60°	320.9	11.7
60°-70°	184.5	6.7
70°-80°	84.8	3.1
80°-90°	20.6	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°	1087.9	39.8
0°-40°	1656.1	60.6
0°-60°	2443.8	89.4
0°-90°	2733.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1542	1542	1542	1542	1542	
5°	1557	1551	1523	1502	1497	148
15°	1523	1478	1390	1334	1330	429
25°	1382	1290	1148	1099	1110	632
35°	1069	981	865	840	855	663
45°	683	632	578	572	583	532
55°	433	392	338	319	317	389
65°	272	238	174	122	126	271
75°	152	120	60	38	38	161
85°	43	30	9	4	4	48
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°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1548.6	1561.5	1553.0	1550.8	1555.1	1555.1	1555.1	1548.6	1553.0	1546.5	1550.8
5°	1557.2	1568.0	1559.4	1555.1	1559.4	1561.5	1555.1	1550.8	1557.2	1548.6	1550.8
7.5°	1557.2	1568.0	1559.4	1557.2	1559.4	1559.4	1557.2	1548.6	1553.0	1544.4	1544.4
10°	1553.0	1561.5	1553.0	1548.6	1550.8	1548.6	1548.6	1538.0	1540.1	1529.4	1529.4
12.5°	1540.1	1550.8	1540.1	1535.9	1535.9	1535.9	1529.4	1520.9	1523.0	1510.1	1508.0
15°	1523.0	1531.5	1520.9	1516.5	1516.5	1514.4	1510.1	1497.2	1497.2	1484.4	1478.0
17.5°	1497.2	1505.9	1497.2	1490.9	1488.8	1484.4	1480.1	1467.2	1463.0	1448.0	1441.6
20°	1467.2	1473.8	1465.1	1458.8	1454.4	1450.1	1441.6	1428.8	1424.4	1409.4	1398.8
22.5°	1428.8	1437.2	1424.4	1418.0	1413.8	1407.2	1398.8	1385.9	1379.5	1360.1	1347.4
25°	1381.6	1385.9	1375.1	1368.8	1360.1	1355.9	1349.5	1332.4	1325.9	1304.5	1289.5
27.5°	1321.6	1325.9	1313.0	1308.8	1298.0	1293.8	1285.2	1270.2	1261.6	1240.2	1225.2
30°	1246.6	1250.9	1242.4	1235.9	1227.4	1218.8	1212.4	1197.4	1184.5	1163.1	1150.2
32.5°	1163.1	1169.5	1161.0	1152.4	1137.4	1139.5	1128.9	1113.9	1103.1	1083.9	1068.9
35°	1068.9	1073.1	1062.4	1060.2	1051.8	1043.1	1032.5	1021.8	1015.2	993.9	981.0
37.5°	963.9	974.6	963.9	955.4	951.0	944.6	938.2	923.2	918.9	906.1	888.9
40°	863.2	869.6	863.2	854.6	848.2	848.2	839.6	831.1	820.4	807.5	801.1
42.5°	773.2	769.0	766.9	762.5	754.0	751.9	749.8	739.0	732.6	719.8	709.0
45°	683.2	685.5	681.1	679.0	672.6	668.2	664.0	655.5	653.2	640.5	631.9
47.5°	608.4	606.1	601.9	601.9	597.6	593.4	589.0	582.6	580.5	569.8	561.2
50°	539.8	541.9	539.8	537.6	531.2	529.1	524.8	520.5	516.2	505.5	497.0
52.5°	484.1	482.0	479.8	479.8	473.4	471.2	467.0	462.6	458.4	447.6	441.2
55°	432.6	432.6	430.5	428.4	422.0	419.9	417.8	413.4	407.0	398.4	392.0
57.5°	385.5	385.5	383.4	381.2	377.0	377.0	372.8	368.4	364.1	355.6	347.0
60°	342.8	344.9	342.8	340.6	336.2	336.2	334.1	327.8	325.6	314.9	308.5
62.5°	306.2	306.2	306.2	304.1	302.0	297.8	297.8	291.2	287.0	280.6	272.0
65°	272.0	272.0	272.0	269.9	265.6	263.5	261.4	257.0	252.8	246.4	237.8
67.5°	239.9	239.9	239.9	237.8	233.5	231.4	229.2	227.0	220.6	214.2	205.6
70°	209.9	209.9	207.8	205.6	203.5	201.4	199.2	194.9	190.6	182.1	175.6
72.5°	179.9	179.9	179.9	175.6	173.5	173.5	169.2	167.1	162.8	154.2	147.8
75°	152.1	150.0	150.0	147.8	145.6	143.5	141.4	139.2	132.8	128.5	120.0
77.5°	124.2	124.2	122.1	120.0	120.0	117.8	115.6	111.4	109.2	102.9	96.4
80°	96.4	96.4	96.4	96.4	94.2	92.1	92.1	87.9	85.6	79.2	75.0
82.5°	72.9	70.6	70.6	70.6	68.5	66.4	66.4	64.2	62.1	57.9	53.5
85°	42.9	40.8	40.8	40.8	38.5	38.5	36.4	36.4	34.2	30.0	30.0
87.5°	12.9	12.9	15.0	15.0	12.9	12.9	12.9	12.9	12.9	10.8	10.8
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°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1546.5	1553.0	1544.4	1542.2	1550.8	1546.5	1544.4	1540.1	1542.2	1538.0	1531.5
5°	1544.4	1553.0	1542.2	1535.9	1546.5	1540.1	1535.9	1531.5	1531.5	1523.0	1518.6
7.5°	1538.0	1542.2	1531.5	1525.1	1531.5	1525.1	1520.9	1514.4	1512.2	1501.5	1495.1
10°	1520.9	1525.1	1512.2	1503.6	1510.1	1501.5	1495.1	1488.8	1484.4	1471.5	1463.0
12.5°	1497.2	1499.4	1484.4	1473.8	1478.0	1471.5	1460.9	1452.2	1448.0	1435.1	1424.4
15°	1465.1	1467.2	1450.1	1435.1	1439.4	1430.9	1418.0	1409.4	1403.0	1390.1	1375.1
17.5°	1426.6	1424.4	1405.1	1390.1	1392.2	1381.6	1368.8	1355.9	1347.4	1332.4	1321.6
20°	1383.8	1377.2	1355.9	1338.8	1340.9	1328.0	1313.0	1300.2	1289.5	1276.6	1261.6
22.5°	1330.1	1321.6	1302.4	1280.9	1283.0	1272.4	1250.9	1240.2	1229.5	1212.4	1199.5
25°	1272.4	1259.5	1240.2	1218.8	1218.8	1206.0	1188.8	1176.0	1165.2	1148.1	1133.1
27.5°	1203.8	1197.4	1171.6	1154.5	1152.4	1139.5	1124.5	1109.5	1096.8	1081.8	1066.8
30°	1128.9	1118.1	1098.9	1079.6	1075.2	1064.6	1049.6	1032.5	1023.9	1008.9	996.0
32.5°	1049.6	1038.9	1017.5	998.1	996.0	987.5	974.6	957.5	948.9	938.2	929.6
35°	959.6	955.4	933.9	918.9	918.9	910.4	897.5	882.5	876.1	865.4	854.6
37.5°	873.9	867.5	848.2	835.4	835.4	824.6	811.9	805.4	799.0	790.4	784.0
40°	784.0	779.8	764.8	751.9	754.0	745.4	736.9	728.2	724.0	719.8	713.2
42.5°	700.4	696.1	685.5	674.8	674.8	668.2	659.8	653.2	649.0	642.6	640.5
45°	625.5	619.0	610.5	599.8	599.8	593.4	589.0	584.8	582.6	578.4	571.9
47.5°	552.6	548.4	539.8	529.1	529.1	529.1	520.5	514.1	514.1	509.8	507.6
50°	490.5	484.1	477.6	469.1	469.1	464.9	458.4	452.0	452.0	449.9	445.5
52.5°	432.6	428.4	419.9	411.2	411.2	407.0	400.5	398.4	396.2	389.9	387.8
55°	383.4	379.1	372.8	362.0	359.9	357.8	351.2	347.0	344.9	338.4	338.4
57.5°	338.4	334.1	323.5	317.0	314.9	310.6	304.1	299.9	297.8	293.5	289.1
60°	299.9	293.5	284.9	276.4	274.1	269.9	263.5	259.1	257.0	248.5	244.2
62.5°	263.5	257.0	248.5	239.9	237.8	233.5	224.9	220.6	216.4	207.8	203.5
65°	229.2	222.8	214.2	205.6	201.4	199.2	190.6	184.2	179.9	173.5	164.9
67.5°	197.1	190.6	182.1	171.4	171.4	164.9	158.5	152.1	145.6	139.2	132.8
70°	167.1	160.6	152.1	143.5	141.4	137.1	130.6	122.1	117.8	109.2	102.9
72.5°	139.2	132.8	124.2	115.6	113.5	109.2	102.9	94.2	87.9	81.4	75.0
75°	113.5	107.1	98.5	92.1	90.0	85.6	79.2	70.6	64.2	60.0	53.5
77.5°	90.0	83.5	77.1	70.6	68.5	64.2	57.9	53.5	47.1	42.9	36.4
80°	68.5	64.2	57.9	53.5	51.4	47.1	42.9	36.4	32.1	27.9	25.8
82.5°	49.2	45.0	40.8	34.2	34.2	30.0	27.9	23.5	19.2	17.1	15.0
85°	27.9	23.5	21.4	19.2	17.1	17.1	15.0	12.9	10.8	8.6	8.6
87.5°	8.6	8.6	6.4	6.4	6.4	6.4	4.2	4.2	4.2	4.2	4.2
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1531.5	1533.6	1529.4	1533.6	1529.4	1531.5	1527.2	1531.5	1527.2	1531.5	1523.0
5°	1516.5	1516.5	1510.1	1514.4	1510.1	1512.2	1503.6	1505.9	1501.5	1505.9	1497.2
7.5°	1490.9	1493.0	1482.2	1486.5	1480.1	1480.1	1473.8	1475.9	1469.4	1471.5	1465.1
10°	1460.9	1458.8	1448.0	1452.2	1443.8	1443.8	1437.2	1437.2	1428.8	1430.9	1422.2
12.5°	1418.0	1415.9	1403.0	1407.2	1398.8	1398.8	1392.2	1392.2	1383.8	1388.0	1379.5
15°	1368.8	1366.6	1353.8	1355.9	1347.4	1347.4	1338.8	1340.9	1334.5	1338.8	1330.1
17.5°	1313.0	1310.9	1298.0	1300.2	1289.5	1291.6	1285.2	1283.0	1278.8	1280.9	1274.5
20°	1255.2	1250.9	1238.1	1240.2	1235.9	1229.5	1225.2	1227.4	1223.1	1227.4	1221.0
22.5°	1195.2	1186.6	1176.0	1176.0	1171.6	1171.6	1165.2	1169.5	1161.0	1167.4	1163.1
25°	1126.8	1120.2	1111.8	1116.0	1107.4	1107.4	1101.0	1103.1	1098.9	1103.1	1098.9
27.5°	1060.2	1056.0	1043.1	1047.5	1041.0	1043.1	1036.8	1038.9	1036.8	1041.0	1036.8
30°	989.6	987.5	978.9	978.9	976.8	974.6	972.5	972.5	970.4	976.8	972.5
32.5°	923.2	916.8	908.2	914.6	903.9	910.4	906.1	910.4	906.1	910.4	908.2
35°	854.6	852.5	841.8	844.0	841.8	841.8	839.6	839.6	839.6	846.1	846.1
37.5°	781.9	779.8	773.2	775.4	771.1	769.0	769.0	773.2	773.2	777.5	777.5
40°	711.1	713.2	706.9	706.9	704.8	704.8	704.8	709.0	706.9	711.1	709.0
42.5°	640.5	640.5	634.0	636.1	634.0	636.1	636.1	640.5	640.5	642.6	640.5
45°	574.0	574.0	571.9	574.0	569.8	571.9	569.8	574.0	571.9	574.0	574.0
47.5°	507.6	507.6	507.6	505.5	505.5	505.5	505.5	505.5	503.4	507.6	505.5
50°	445.5	447.6	445.5	445.5	443.4	445.5	443.4	443.4	439.1	441.2	441.2
52.5°	389.9	389.9	385.5	385.5	385.5	383.4	383.4	383.4	381.2	381.2	377.0
55°	336.2	336.2	332.0	332.0	329.9	327.8	325.6	325.6	319.1	319.1	312.8
57.5°	287.0	284.9	278.5	278.5	274.1	272.0	269.9	267.8	263.5	259.1	257.0
60°	242.0	237.8	233.5	231.4	227.0	222.8	218.5	214.2	209.9	207.8	205.6
62.5°	199.2	192.8	188.5	186.4	182.1	175.6	171.4	167.1	162.8	160.6	156.4
65°	160.6	154.2	147.8	145.6	141.4	137.1	130.6	126.4	122.1	120.0	120.0
67.5°	126.4	120.0	111.4	111.4	107.1	102.9	98.5	94.2	92.1	94.2	94.2
70°	94.2	90.0	83.5	81.4	77.1	72.9	70.6	70.6	70.6	72.9	70.6
72.5°	70.6	64.2	60.0	57.9	55.8	53.5	53.5	53.5	51.4	53.5	53.5
75°	49.2	45.0	40.8	40.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5
77.5°	34.2	30.0	27.9	27.9	27.9	25.8	25.8	25.8	25.8	25.8	25.8
80°	21.4	21.4	19.2	19.2	17.1	17.1	17.1	17.1	17.1	17.1	17.1
82.5°	12.9	12.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
85°	6.4	6.4	6.4	6.4	6.4	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2
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: P252489

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1523.0	1529.4	1520.9	1527.2	1525.1	1523.0	1518.6	1527.2
5°	1497.2	1499.4	1490.9	1499.4	1497.2	1493.0	1488.8	1497.2
7.5°	1460.9	1467.2	1456.5	1465.1	1463.0	1458.8	1454.4	1463.0
10°	1420.1	1426.6	1418.0	1424.4	1424.4	1420.1	1413.8	1422.2
12.5°	1375.1	1379.5	1370.9	1379.5	1377.2	1373.0	1370.9	1377.2
15°	1325.9	1332.4	1323.8	1330.1	1328.0	1325.9	1323.8	1330.1
17.5°	1272.4	1278.8	1272.4	1278.8	1278.8	1272.4	1270.2	1274.5
20°	1218.8	1223.1	1216.6	1223.1	1221.0	1221.0	1216.6	1223.1
22.5°	1158.9	1165.2	1161.0	1165.2	1163.1	1163.1	1161.0	1165.2
25°	1098.9	1105.2	1098.9	1105.2	1103.1	1103.1	1098.9	1109.5
27.5°	1038.9	1043.1	1036.8	1045.2	1043.1	1038.9	1041.0	1043.1
30°	974.6	978.9	974.6	981.0	981.0	981.0	976.8	981.0
32.5°	910.4	916.8	910.4	916.8	914.6	914.6	912.5	916.8
35°	846.1	848.2	844.0	850.4	850.4	852.5	848.2	854.6
37.5°	779.8	781.9	779.8	781.9	786.1	779.8	784.0	786.1
40°	711.1	715.4	713.2	715.4	715.4	717.6	715.4	717.6
42.5°	642.6	646.9	642.6	649.0	646.9	646.9	649.0	649.0
45°	571.9	578.4	574.0	578.4	580.5	578.4	578.4	582.6
47.5°	505.5	509.8	507.6	509.8	509.8	509.8	509.8	514.1
50°	439.1	441.2	441.2	443.4	443.4	445.5	441.2	443.4
52.5°	372.8	377.0	377.0	377.0	374.9	377.0	377.0	377.0
55°	312.8	314.9	310.6	314.9	314.9	312.8	312.8	317.0
57.5°	254.9	254.9	254.9	254.9	254.9	252.8	254.9	254.9
60°	201.4	203.5	201.4	201.4	201.4	201.4	199.2	203.5
62.5°	156.4	156.4	154.2	156.4	156.4	156.4	158.5	158.5
65°	122.1	124.2	122.1	124.2	124.2	124.2	124.2	126.4
67.5°	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
70°	72.9	72.9	72.9	75.0	72.9	72.9	72.9	75.0
72.5°	53.5	53.5	53.5	53.5	53.5	53.5	55.8	55.8
75°	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
77.5°	25.8	25.8	25.8	27.9	25.8	27.9	25.8	25.8
80°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
82.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1
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)