

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: P252699

Luminaire Tested: **LE_6B30D010 EC6B30509730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252699
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 EC6B30509730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 2573.8 lumens
Efficiency: N/A
Efficacy: 91.9 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

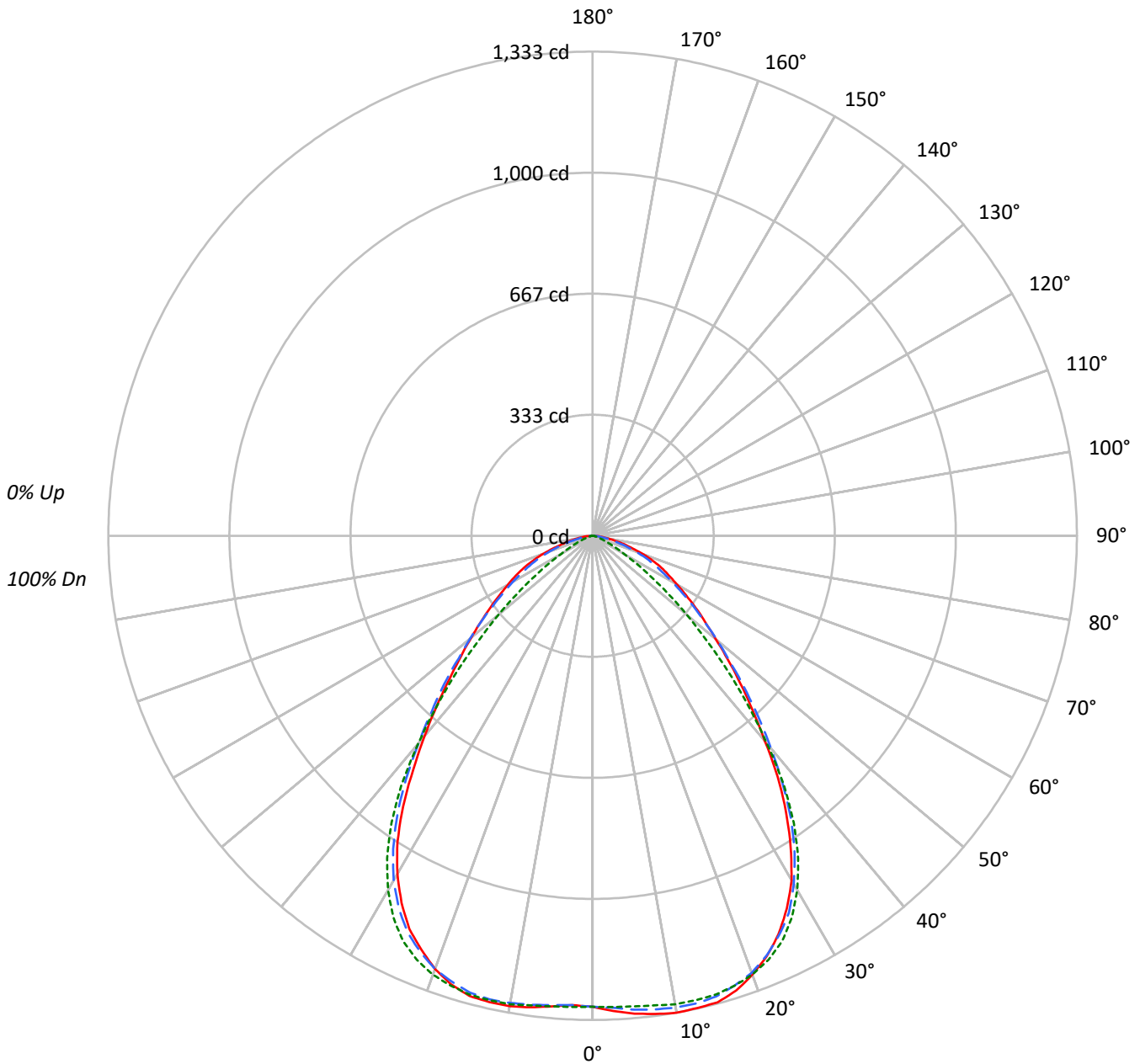
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	84604	84604	84604
5°	86479	85163	85163
10°	88334	86751	87115
15°	89817	88332	88575
20°	89270	89270	88118
25°	87138	88722	85950
30°	82490	84833	80968
35°	73910	76841	72460
40°	62784	63576	61234
45°	53135	48568	51280
50°	44861	34255	44303
55°	39424	22112	39014
60°	34943	13166	35178
65°	32279	7935	32279
70°	28002	4559	27277
75°	22182	2773	20796
80°	16531	2066	15817
85°	15046	1422	13773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	4.9
10°-20°	369.5	14.4
20°-30°	555.7	21.6
30°-40°	584.3	22.7
40°-50°	436.5	17.0
50°-60°	271.7	10.6
60°-70°	154.5	6.0
70°-80°	63.6	2.5
80°-90°	13.2	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°	1050.0	40.8
0°-40°	1634.3	63.5
0°-60°	2342.4	91.0
0°-90°	2573.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2573.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1297	1297	1297	1297	1297	
5°	1320	1310	1300	1297	1300	126
15°	1330	1313	1308	1302	1311	374
25°	1210	1214	1232	1205	1194	554
35°	928	952	965	937	910	576
45°	576	589	526	578	556	446
55°	347	339	194	334	343	312
65°	209	187	51	187	209	206
75°	88	70	11	68	82	96
85°	20	13	2	11	18	22
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°	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1309.5	1307.8	1309.5	1305.9	1304.0	1304.0	1305.9	1302.2	1300.4	1302.2	1300.4
5°	1320.5	1316.9	1318.8	1316.9	1313.2	1313.2	1315.0	1309.5	1309.5	1311.4	1309.5
7.5°	1327.9	1327.9	1327.9	1324.2	1322.4	1320.5	1324.2	1318.8	1316.9	1316.9	1315.0
10°	1333.4	1331.5	1333.4	1329.8	1326.0	1324.2	1327.9	1324.2	1320.5	1324.2	1318.8
12.5°	1331.5	1331.5	1331.5	1329.8	1326.0	1324.2	1327.9	1322.4	1320.5	1322.4	1318.8
15°	1329.8	1324.2	1326.0	1324.2	1318.8	1318.8	1320.5	1315.0	1311.4	1316.9	1313.2
17.5°	1313.2	1309.5	1311.4	1307.8	1304.0	1302.2	1304.0	1302.2	1298.5	1302.2	1298.5
20°	1285.8	1285.8	1287.5	1283.9	1280.2	1278.4	1282.0	1278.4	1274.8	1280.2	1280.2
22.5°	1252.8	1252.8	1252.8	1250.9	1249.0	1249.0	1249.0	1247.2	1245.4	1249.0	1250.9
25°	1210.5	1208.6	1210.5	1212.4	1210.5	1208.6	1210.5	1210.5	1206.9	1214.1	1214.1
27.5°	1157.4	1157.4	1161.0	1159.1	1159.1	1157.4	1161.0	1161.0	1159.1	1164.6	1170.1
30°	1095.0	1091.2	1095.0	1095.0	1096.8	1096.8	1098.6	1098.6	1098.6	1104.1	1107.8
32.5°	1014.2	1016.1	1021.6	1019.8	1017.9	1023.4	1023.4	1027.1	1028.9	1032.6	1034.4
35°	928.0	929.9	929.9	931.8	935.4	931.8	940.9	939.0	940.9	948.2	951.9
37.5°	836.4	830.9	840.0	836.4	838.1	838.1	841.9	843.6	849.2	858.4	858.4
40°	737.2	739.1	742.8	744.6	746.5	746.5	746.5	752.0	753.9	764.9	763.0
42.5°	651.1	651.1	654.8	656.6	656.6	656.6	656.6	662.1	665.8	669.5	673.1
45°	575.9	570.4	574.1	574.1	577.8	575.9	579.6	583.2	585.1	590.6	588.8
47.5°	504.4	502.5	504.4	506.2	504.4	506.2	508.0	509.9	511.8	511.8	511.8
50°	442.0	442.0	443.9	445.6	445.6	445.6	445.6	447.5	447.5	451.2	447.5
52.5°	390.6	392.5	392.5	390.6	392.5	392.5	394.4	394.4	392.5	392.5	387.0
55°	346.6	344.8	346.6	344.8	346.6	346.6	344.8	344.8	343.0	341.1	339.2
57.5°	304.5	304.5	304.5	304.5	302.6	304.5	302.6	300.8	300.8	297.1	291.6
60°	267.8	267.8	267.8	267.8	267.8	266.0	267.8	266.0	262.2	258.6	251.2
62.5°	236.6	234.8	236.6	234.8	234.8	232.9	232.9	231.1	227.4	223.8	216.4
65°	209.1	210.9	209.1	209.1	207.2	205.4	205.4	203.6	198.1	194.4	187.1
67.5°	179.8	177.9	177.9	177.9	176.1	176.1	176.1	172.4	168.8	163.2	155.9
70°	146.8	146.8	146.8	144.9	144.9	143.0	143.0	141.2	137.5	133.9	124.8
72.5°	115.5	115.5	115.5	111.9	113.8	111.9	111.9	108.2	106.4	100.9	95.4
75°	88.0	88.0	86.2	86.2	84.4	82.5	82.5	80.8	78.9	75.2	69.8
77.5°	64.2	64.2	64.2	62.4	60.5	58.8	58.8	56.9	55.0	53.2	49.5
80°	44.0	44.0	44.0	44.0	42.1	40.4	40.4	38.5	38.5	36.6	33.0
82.5°	29.4	29.4	29.4	29.4	27.5	27.5	27.5	25.6	23.9	23.9	20.1
85°	20.1	20.1	18.4	18.4	18.4	18.4	16.5	16.5	14.6	12.9	12.9
87.5°	11.0	11.0	11.0	11.0	9.1	9.1	9.1	9.1	7.4	7.4	5.5
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°	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1305.9	1305.9	1304.0	1298.5	1300.4	1298.5	1300.4	1298.5	1293.0	1298.5	1293.0
5°	1313.2	1315.0	1311.4	1304.0	1305.9	1304.0	1304.0	1302.2	1296.8	1300.4	1296.8
7.5°	1320.5	1318.8	1316.9	1309.5	1311.4	1309.5	1309.5	1305.9	1300.4	1304.0	1298.5
10°	1324.2	1324.2	1320.5	1313.2	1313.2	1311.4	1313.2	1311.4	1304.0	1309.5	1305.9
12.5°	1324.2	1322.4	1322.4	1313.2	1315.0	1313.2	1315.0	1311.4	1305.9	1309.5	1307.8
15°	1318.8	1318.8	1316.9	1307.8	1309.5	1309.5	1311.4	1307.8	1302.2	1307.8	1304.0
17.5°	1307.8	1307.8	1305.9	1298.5	1302.2	1302.2	1304.0	1300.4	1294.9	1298.5	1298.5
20°	1285.8	1287.5	1287.5	1282.0	1285.8	1285.8	1287.5	1285.8	1283.9	1285.8	1282.0
22.5°	1260.0	1263.8	1263.8	1258.2	1261.9	1261.9	1267.4	1265.5	1261.9	1263.8	1261.9
25°	1221.5	1225.1	1228.9	1225.1	1228.9	1228.9	1234.4	1232.5	1228.9	1232.5	1227.0
27.5°	1177.5	1179.4	1183.0	1179.4	1184.9	1183.0	1188.5	1186.6	1181.1	1186.6	1184.9
30°	1115.1	1122.5	1128.0	1122.5	1128.0	1128.0	1131.6	1129.8	1128.0	1126.1	1126.1
32.5°	1045.5	1052.8	1052.8	1051.0	1054.6	1054.6	1056.5	1052.8	1051.0	1052.8	1054.6
35°	959.2	962.9	966.6	964.8	966.6	968.4	966.6	968.4	962.9	964.8	964.8
37.5°	865.8	869.4	869.4	863.9	867.5	867.5	863.9	863.9	860.2	863.9	856.5
40°	766.6	763.0	764.9	761.1	757.5	757.5	755.6	748.4	744.6	746.5	748.4
42.5°	669.5	669.5	664.0	654.8	645.6	645.6	640.1	636.4	629.1	632.8	630.9
45°	586.9	577.8	570.4	555.8	550.2	546.5	537.4	528.2	524.5	526.4	524.5
47.5°	508.0	500.8	482.4	462.2	456.8	451.2	440.1	429.1	425.5	421.9	421.9
50°	442.0	429.1	409.0	387.0	377.9	368.6	354.0	343.0	335.6	337.5	337.5
52.5°	381.5	366.9	343.0	315.5	304.5	293.5	280.6	267.8	262.2	260.5	260.5
55°	328.2	311.8	288.0	256.8	247.6	234.8	218.2	203.6	196.2	194.4	198.1
57.5°	280.6	266.0	238.4	207.2	196.2	183.4	166.9	154.1	144.9	143.0	144.9
60°	242.1	221.9	198.1	168.8	154.1	143.0	124.8	113.8	104.5	100.9	102.8
62.5°	203.6	185.2	161.4	132.0	121.0	110.0	93.5	80.8	73.4	71.5	73.4
65°	174.2	155.9	133.9	108.2	97.2	86.2	71.5	58.8	53.2	51.4	53.2
67.5°	144.9	128.4	110.0	86.2	77.0	67.9	53.2	44.0	36.6	34.9	36.6
70°	117.4	102.8	84.4	67.9	58.8	51.4	40.4	31.1	25.6	23.9	25.6
72.5°	88.0	77.0	64.2	49.5	44.0	38.5	29.4	22.0	18.4	16.5	18.4
75°	64.2	55.0	45.9	34.9	31.1	27.5	20.1	14.6	12.9	11.0	12.9
77.5°	44.0	38.5	31.1	23.9	20.1	18.4	12.9	11.0	9.1	7.4	7.4
80°	29.4	25.6	20.1	16.5	14.6	12.9	9.1	7.4	5.5	5.5	5.5
82.5°	18.4	14.6	12.9	9.1	7.4	7.4	5.5	3.6	3.6	3.6	3.6
85°	11.0	9.1	7.4	5.5	3.6	3.6	1.9	1.9	1.9	1.9	1.9
87.5°	5.5	3.6	3.6	1.9	1.9	1.9	1.9	1.9	0.0	0.0	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°	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1296.8	1293.0	1293.0	1294.9	1296.8	1298.5	1294.9	1293.0	1293.0	1298.5	1294.9
5°	1296.8	1294.9	1294.9	1294.9	1298.5	1300.4	1296.8	1294.9	1296.8	1302.2	1300.4
7.5°	1302.2	1298.5	1300.4	1300.4	1302.2	1305.9	1302.2	1300.4	1302.2	1307.8	1304.0
10°	1305.9	1302.2	1304.0	1302.2	1307.8	1309.5	1305.9	1304.0	1305.9	1313.2	1311.4
12.5°	1307.8	1305.9	1305.9	1304.0	1309.5	1311.4	1307.8	1305.9	1307.8	1313.2	1311.4
15°	1304.0	1302.2	1302.2	1302.2	1305.9	1309.5	1304.0	1302.2	1302.2	1307.8	1305.9
17.5°	1296.8	1293.0	1293.0	1293.0	1294.9	1296.8	1291.2	1289.4	1287.5	1293.0	1291.2
20°	1283.9	1280.2	1276.5	1276.5	1278.4	1278.4	1274.8	1269.2	1269.2	1271.0	1267.4
22.5°	1260.0	1258.2	1254.5	1252.8	1256.4	1254.5	1247.2	1241.6	1239.9	1241.6	1238.0
25°	1227.0	1223.4	1221.5	1219.6	1221.5	1219.6	1212.4	1205.0	1205.0	1205.0	1199.5
27.5°	1181.1	1177.5	1175.6	1175.6	1177.5	1173.9	1166.5	1159.1	1155.5	1155.5	1150.0
30°	1122.5	1122.5	1120.6	1118.8	1117.0	1117.0	1106.0	1098.6	1095.0	1096.8	1093.1
32.5°	1051.0	1049.1	1047.2	1041.8	1043.6	1041.8	1032.6	1027.1	1021.6	1017.9	1016.1
35°	959.2	959.2	957.4	957.4	957.4	955.6	946.4	940.9	937.2	935.4	929.9
37.5°	858.4	856.5	854.8	854.8	854.8	854.8	849.2	843.6	843.6	841.9	838.1
40°	744.6	746.5	748.4	746.5	752.0	757.5	750.1	746.5	744.6	750.1	742.8
42.5°	634.6	632.8	641.9	643.8	643.8	653.0	654.8	656.6	654.8	658.5	658.5
45°	528.2	526.4	535.5	539.2	548.4	559.4	564.9	574.1	577.8	581.4	577.8
47.5°	427.4	434.6	442.0	451.2	458.5	476.9	487.9	497.0	500.8	506.2	506.2
50°	343.0	350.4	363.1	370.5	379.6	401.6	420.0	432.9	440.1	445.6	443.9
52.5°	264.1	277.0	293.5	300.8	313.6	339.2	359.5	374.1	383.4	388.9	390.6
55°	203.6	214.6	231.1	242.1	255.0	282.5	308.1	324.6	333.8	341.1	344.8
57.5°	150.4	163.2	181.6	190.8	205.4	236.6	258.6	278.8	289.8	299.0	300.8
60°	110.0	122.9	139.4	150.4	165.1	196.2	221.9	240.2	253.1	260.5	264.1
62.5°	78.9	91.8	108.2	119.2	132.0	159.6	185.2	203.6	216.4	225.6	231.1
65°	56.9	69.8	86.2	95.4	106.4	132.0	155.9	174.2	187.1	198.1	201.8
67.5°	42.1	51.4	66.0	75.2	86.2	106.4	126.5	143.0	155.9	165.1	168.8
70°	31.1	38.5	51.4	56.9	64.2	82.5	99.0	113.8	124.8	132.0	135.8
72.5°	22.0	27.5	36.6	42.1	47.6	62.4	75.2	86.2	93.5	100.9	104.5
75°	14.6	18.4	25.6	29.4	33.0	44.0	53.2	62.4	67.9	73.4	75.2
77.5°	9.1	12.9	18.4	20.1	23.9	29.4	36.6	42.1	45.9	49.5	53.2
80°	5.5	7.4	11.0	12.9	14.6	20.1	23.9	27.5	31.1	34.9	36.6
82.5°	3.6	5.5	7.4	7.4	9.1	11.0	14.6	18.4	20.1	22.0	23.9
85°	1.9	1.9	3.6	3.6	5.5	5.5	7.4	9.1	11.0	12.9	14.6
87.5°	1.9	1.9	1.9	1.9	3.6	3.6	5.5	5.5	5.5	7.4	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



TEST NUMBER: P252699

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1291.2	1296.8	1291.2	1294.9	1293.0	1293.0	1291.2	1293.0
5°	1296.8	1304.0	1296.8	1302.2	1298.5	1298.5	1298.5	1300.4
7.5°	1302.2	1309.5	1304.0	1309.5	1307.8	1305.9	1305.9	1309.5
10°	1307.8	1313.2	1309.5	1315.0	1313.2	1311.4	1311.4	1315.0
12.5°	1307.8	1315.0	1311.4	1316.9	1315.0	1313.2	1313.2	1315.0
15°	1302.2	1311.4	1305.9	1311.4	1309.5	1307.8	1307.8	1311.4
17.5°	1285.8	1293.0	1289.4	1293.0	1293.0	1291.2	1293.0	1294.9
20°	1263.8	1269.2	1265.5	1269.2	1269.2	1265.5	1267.4	1269.2
22.5°	1232.5	1238.0	1234.4	1238.0	1236.1	1234.4	1234.4	1232.5
25°	1194.0	1201.4	1195.9	1199.5	1195.9	1192.1	1192.1	1194.0
27.5°	1146.4	1151.9	1144.5	1148.1	1144.5	1140.8	1140.8	1139.0
30°	1084.0	1085.8	1080.2	1084.0	1080.2	1078.5	1074.8	1074.8
32.5°	1008.8	1010.6	1005.1	1005.1	1001.4	1001.4	994.1	999.6
35°	920.8	922.5	920.8	918.9	913.4	911.5	909.8	909.8
37.5°	829.0	829.0	823.5	821.6	818.0	814.4	816.1	810.6
40°	735.5	733.6	728.1	730.0	728.1	722.6	720.8	719.0
42.5°	647.5	647.5	641.9	643.8	640.1	638.2	632.8	634.6
45°	570.4	570.4	564.9	564.9	563.1	557.6	559.4	555.8
47.5°	500.8	500.8	498.9	498.9	493.4	491.5	491.5	491.5
50°	440.1	440.1	440.1	440.1	438.4	436.5	434.6	436.5
52.5°	388.9	392.5	390.6	390.6	388.9	387.0	385.1	385.1
55°	343.0	344.8	344.8	346.6	344.8	343.0	344.8	343.0
57.5°	302.6	306.2	306.2	306.2	306.2	306.2	304.5	302.6
60°	267.8	269.6	269.6	271.5	271.5	271.5	269.6	269.6
62.5°	232.9	236.6	238.4	238.4	240.2	238.4	238.4	238.4
65°	205.4	209.1	210.9	209.1	210.9	210.9	209.1	209.1
67.5°	172.4	176.1	176.1	176.1	176.1	177.9	176.1	176.1
70°	139.4	143.0	141.2	143.0	143.0	143.0	143.0	143.0
72.5°	106.4	108.2	110.0	110.0	111.9	110.0	110.0	110.0
75°	77.0	80.8	80.8	80.8	80.8	82.5	82.5	82.5
77.5°	55.0	56.9	56.9	58.8	58.8	58.8	58.8	60.5
80°	38.5	38.5	40.4	40.4	42.1	42.1	42.1	42.1
82.5°	25.6	27.5	27.5	27.5	27.5	27.5	27.5	27.5
85°	14.6	16.5	16.5	16.5	16.5	18.4	18.4	18.4
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	7.4	7.4
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)