

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: P252366

Luminaire Tested: **LE\_6B20D010 EC6B10208050 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252366  
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\_6B20D010 EC6B10208050 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2385.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 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

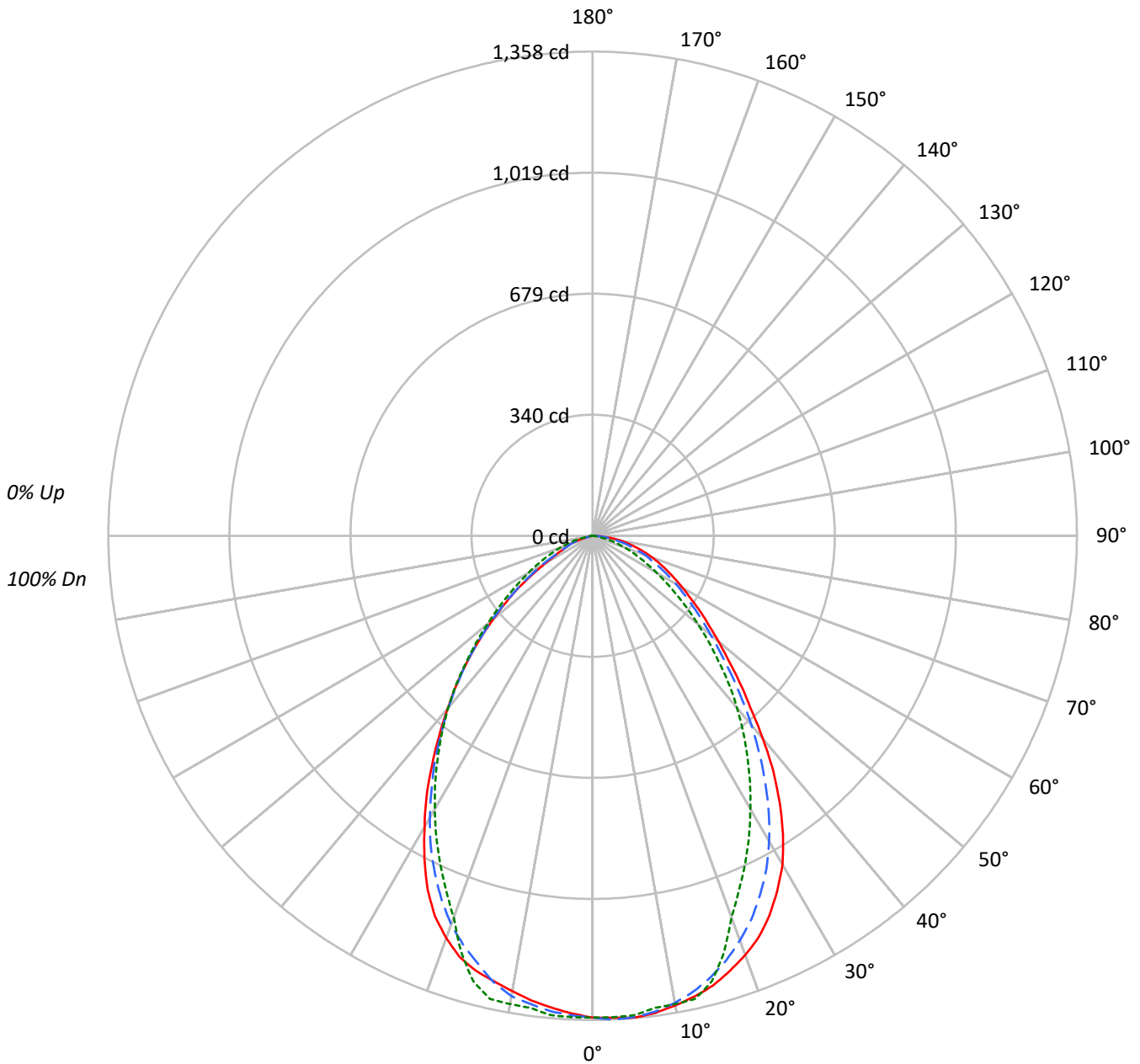
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	88166	88166	88166
5°	88844	88385	87003
10°	88599	88360	85922
15°	88196	87366	85346
20°	86882	79078	83341
25°	84518	72892	78831
30°	80245	66632	71002
35°	72827	60243	62481
40°	63227	53654	53808
45°	53919	46141	45662
50°	46678	39015	36863
55°	41721	32542	28550
60°	38022	27023	19233
65°	35490	22214	14357
70°	33801	18083	12036
75°	31862	12830	3983
80°	30357	6575	1315
85°	25002	3892	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.6	5.4
10°-20°	356.9	15.0
20°-30°	492.7	20.7
30°-40°	501.3	21.0
40°-50°	402.9	16.9
50°-60°	267.9	11.2
60°-70°	152.7	6.4
70°-80°	68.6	2.9
80°-90°	14.4	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°	977.2	41.0
0°-40°	1478.5	62.0
0°-60°	2149.3	90.1
0°-90°	2385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1351	1351	1351	1351	1351	
5°	1357	1355	1350	1339	1328	129
15°	1306	1281	1294	1242	1264	367
25°	1174	1111	1013	1046	1095	538
35°	914	844	756	770	784	568
45°	584	549	500	495	495	453
55°	367	342	286	254	251	330
65°	230	205	144	93	93	229
75°	126	105	51	21	16	135
85°	33	23	5	2	0	40
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°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1353.1	1360.1	1358.4	1356.6	1358.4	1356.6	1353.1	1353.1	1349.6	1349.6	1358.4
5°	1356.6	1360.1	1358.4	1356.6	1356.6	1358.4	1351.4	1351.4	1347.9	1346.1	1354.9
7.5°	1349.6	1354.9	1351.4	1351.4	1349.6	1351.4	1344.4	1344.4	1339.1	1337.4	1346.1
10°	1337.4	1344.4	1340.9	1340.9	1340.9	1337.4	1333.8	1332.0	1326.8	1325.0	1330.2
12.5°	1323.2	1328.5	1326.8	1323.2	1323.2	1323.2	1316.2	1314.5	1307.5	1304.0	1309.2
15°	1305.8	1309.2	1307.5	1305.8	1302.2	1302.2	1295.2	1291.8	1284.6	1277.6	1281.1
17.5°	1279.4	1284.6	1281.1	1279.4	1274.1	1274.1	1267.1	1263.6	1253.1	1246.0	1247.9
20°	1251.4	1253.1	1251.4	1247.9	1242.5	1240.8	1233.8	1226.8	1218.0	1209.2	1207.5
22.5°	1218.0	1219.8	1214.5	1211.0	1205.8	1204.0	1195.1	1189.9	1175.9	1165.4	1163.6
25°	1174.1	1175.9	1175.9	1167.1	1163.6	1160.1	1151.2	1142.5	1130.2	1116.2	1110.9
27.5°	1121.5	1126.8	1123.2	1114.4	1107.4	1105.6	1096.9	1089.9	1074.1	1061.8	1054.8
30°	1065.2	1063.5	1061.8	1056.5	1046.0	1044.2	1035.5	1026.6	1014.4	998.6	989.9
32.5°	993.4	993.4	991.6	986.4	975.8	972.2	965.2	954.8	940.8	928.4	919.6
35°	914.4	916.1	914.4	903.9	896.8	893.2	889.8	877.5	865.2	851.1	844.1
37.5°	831.9	826.6	828.4	819.6	810.9	814.4	803.8	798.5	784.5	774.0	767.0
40°	742.4	745.9	738.9	735.4	730.1	724.9	724.9	716.0	709.0	696.8	693.2
42.5°	654.6	659.9	658.1	654.6	647.6	649.4	640.6	637.1	628.2	623.0	617.8
45°	584.4	584.4	584.4	580.9	579.1	575.6	570.4	565.1	559.9	552.9	549.4
47.5°	516.0	516.0	517.8	514.2	510.8	509.0	505.5	505.5	496.6	489.6	486.1
50°	459.9	459.9	459.9	456.2	452.8	452.8	449.2	445.8	440.5	435.2	431.8
52.5°	408.9	408.9	408.9	405.4	403.6	401.9	400.1	398.4	391.4	387.9	384.4
55°	366.8	365.0	365.0	363.2	359.8	359.8	358.0	354.5	349.2	344.0	342.2
57.5°	324.6	326.4	324.6	324.6	321.1	321.1	317.6	315.9	310.6	307.1	303.6
60°	291.4	291.4	291.4	289.6	286.1	287.9	284.2	282.5	277.2	272.0	268.5
62.5°	258.0	259.8	259.8	258.0	254.5	254.5	252.8	251.0	245.8	240.4	235.1
65°	229.9	229.9	229.9	228.1	226.4	226.4	224.6	222.9	217.6	210.6	205.4
67.5°	203.6	201.9	201.9	201.9	200.1	198.4	196.5	194.8	189.5	184.2	177.2
70°	177.2	177.2	177.2	175.5	172.0	173.8	172.0	170.2	165.0	159.8	154.5
72.5°	152.6	152.6	150.9	149.1	149.1	147.4	147.4	145.6	140.4	133.4	128.1
75°	126.4	126.4	126.4	126.4	122.9	124.6	121.1	119.4	115.9	110.6	105.2
77.5°	103.5	103.5	103.5	101.8	100.0	100.0	98.2	96.5	91.2	87.8	80.8
80°	80.8	80.8	80.8	80.8	79.0	77.2	75.5	73.8	70.2	64.9	59.6
82.5°	59.6	59.6	57.9	57.9	57.9	56.1	54.4	52.6	49.1	45.6	42.1
85°	33.4	35.1	35.1	31.6	33.4	31.6	31.6	28.1	28.1	24.6	22.9
87.5°	12.2	10.5	10.5	10.5	10.5	10.5	10.5	8.8	8.8	8.8	7.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1351.4	1349.6	1356.6	1356.6	1346.1	1351.4	1353.1	1349.6	1349.6	1351.4	1346.1
5°	1347.9	1344.4	1351.4	1353.1	1342.6	1347.9	1349.6	1346.1	1347.9	1349.6	1342.6
7.5°	1335.6	1335.6	1340.9	1342.6	1332.0	1337.4	1337.4	1333.8	1335.6	1335.6	1330.2
10°	1323.2	1318.0	1323.2	1323.2	1314.5	1316.2	1319.8	1318.0	1325.0	1333.8	1333.8
12.5°	1300.5	1295.2	1304.0	1304.0	1298.8	1305.8	1314.5	1319.8	1326.8	1330.2	1319.8
15°	1272.4	1274.1	1289.9	1302.2	1297.0	1307.5	1316.2	1312.8	1304.0	1293.5	1277.6
17.5°	1235.5	1230.2	1244.2	1251.4	1244.2	1247.9	1254.9	1247.9	1233.8	1225.0	1204.0
20°	1193.4	1179.4	1179.4	1175.9	1163.6	1163.6	1161.9	1149.5	1144.2	1139.0	1130.2
22.5°	1146.0	1130.2	1125.0	1114.4	1103.9	1102.1	1096.9	1084.6	1077.6	1074.1	1063.5
25°	1091.6	1077.6	1068.8	1058.2	1042.5	1039.0	1033.8	1021.4	1017.9	1012.6	1003.9
27.5°	1035.5	1017.9	1005.6	995.1	981.0	979.2	968.8	960.0	953.0	949.5	942.5
30°	970.5	951.2	942.5	928.4	917.9	914.4	905.6	893.2	888.0	884.5	879.2
32.5°	898.6	882.8	874.0	861.8	847.6	849.4	838.9	828.4	824.9	821.4	816.1
35°	828.4	812.6	802.0	791.5	782.8	779.2	772.2	763.4	758.1	756.4	752.9
37.5°	751.1	738.9	730.1	719.5	712.5	709.0	705.5	696.8	693.2	693.2	686.2
40°	675.6	665.1	658.1	652.9	644.1	642.4	638.9	633.5	631.8	630.0	624.8
42.5°	607.2	593.2	587.9	584.4	579.1	575.6	573.9	570.4	568.6	566.9	561.6
45°	542.2	530.0	524.8	521.2	516.0	514.2	512.5	507.2	503.8	500.1	498.4
47.5°	479.1	470.4	468.6	459.9	456.2	452.8	449.2	445.8	444.0	442.2	435.2
50°	424.8	419.5	410.6	405.4	401.9	400.1	393.1	387.9	386.1	384.4	379.1
52.5°	375.6	368.5	363.2	354.5	352.8	349.2	345.8	338.8	335.2	333.5	328.2
55°	331.8	326.4	319.4	312.4	307.1	305.4	300.1	293.1	289.6	286.1	282.5
57.5°	294.9	286.1	279.0	272.0	268.5	263.2	258.0	254.5	249.2	244.0	238.6
60°	259.8	252.8	244.0	236.9	233.4	229.9	222.9	217.6	212.4	207.1	201.9
62.5°	226.4	219.4	210.6	203.6	200.1	196.5	189.5	184.2	179.0	173.8	166.8
65°	196.5	189.5	182.5	175.5	172.0	168.5	161.5	154.5	149.1	143.9	136.9
67.5°	172.0	163.2	156.2	149.1	145.6	142.1	135.1	129.9	122.9	117.6	110.6
70°	145.6	138.6	133.4	126.4	122.9	119.4	112.4	105.2	100.0	94.8	87.8
72.5°	122.9	114.1	108.8	101.8	98.2	96.5	89.5	84.2	79.0	72.0	66.8
75°	98.2	91.2	84.2	79.0	75.5	73.8	66.8	61.4	56.1	50.9	45.6
77.5°	75.5	70.2	63.1	57.9	54.4	52.6	45.6	40.4	35.1	31.6	26.4
80°	56.1	49.1	45.6	40.4	38.6	35.1	31.6	26.4	22.9	17.5	14.0
82.5°	38.6	33.4	29.9	26.4	24.6	22.9	19.2	15.8	12.2	10.5	8.8
85°	21.0	17.5	15.8	14.0	12.2	12.2	10.5	8.8	7.0	5.2	3.5
87.5°	7.0	5.2	5.2	5.2	5.2	3.5	3.5	3.5	1.8	1.8	1.8
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1349.6	1349.6	1349.6	1347.9	1347.9	1347.9	1346.1	1353.1	1346.1	1344.4	1349.6
5°	1347.9	1344.4	1344.4	1344.4	1344.4	1342.6	1340.9	1344.4	1339.1	1337.4	1337.4
7.5°	1337.4	1335.6	1335.6	1333.8	1332.0	1330.2	1328.5	1330.2	1325.0	1323.2	1323.2
10°	1339.1	1335.6	1335.6	1330.2	1326.8	1321.5	1316.2	1318.0	1311.0	1305.8	1305.8
12.5°	1318.0	1309.2	1304.0	1298.8	1295.2	1293.5	1286.4	1289.9	1282.9	1281.1	1281.1
15°	1270.6	1260.1	1251.4	1247.9	1247.9	1244.2	1239.0	1246.0	1242.5	1244.2	1253.1
17.5°	1196.9	1191.6	1186.4	1184.6	1186.4	1189.9	1193.4	1204.0	1204.0	1209.2	1218.0
20°	1132.0	1128.5	1132.0	1132.0	1133.8	1140.8	1147.8	1156.5	1160.1	1165.4	1177.6
22.5°	1068.8	1068.8	1072.4	1077.6	1075.9	1088.1	1089.9	1105.6	1105.6	1116.2	1126.8
25°	1007.4	1007.4	1010.9	1012.6	1016.1	1023.1	1030.2	1042.5	1046.0	1056.5	1065.2
27.5°	947.8	946.0	946.0	947.8	951.2	960.0	963.5	977.5	982.8	989.9	998.6
30°	881.0	879.2	882.8	886.2	884.5	893.2	898.6	909.1	912.6	919.6	926.6
32.5°	817.9	817.9	817.9	821.4	821.4	828.4	828.4	840.6	840.6	845.9	852.9
35°	752.9	752.9	754.6	756.4	758.1	759.9	761.6	768.8	770.5	772.2	775.8
37.5°	691.5	689.8	691.5	691.5	688.0	695.0	695.0	702.0	696.8	702.0	703.8
40°	628.2	628.2	626.5	626.5	626.5	630.0	626.5	631.8	628.2	631.8	630.0
42.5°	563.4	563.4	559.9	563.4	561.6	561.6	561.6	565.1	559.9	563.4	565.1
45°	498.4	496.6	496.6	494.9	494.9	494.9	496.6	496.6	494.9	498.4	498.4
47.5°	435.2	433.5	433.5	433.5	433.5	435.2	430.0	433.5	430.0	430.0	430.0
50°	380.9	379.1	377.4	375.6	373.9	373.9	372.1	372.1	368.5	366.8	365.0
52.5°	328.2	326.4	322.9	322.9	321.1	319.4	314.1	314.1	308.9	307.1	307.1
55°	280.8	275.5	273.8	270.2	270.2	266.8	263.2	259.8	254.5	251.0	251.0
57.5°	236.9	231.6	228.1	226.4	224.6	221.1	214.1	212.4	205.4	203.6	201.9
60°	198.4	193.0	187.8	184.2	182.5	177.2	170.2	166.8	163.2	158.0	152.6
62.5°	161.5	156.2	149.1	147.4	143.9	138.6	133.4	128.1	124.6	119.4	115.9
65°	129.9	124.6	119.4	115.9	112.4	107.0	101.8	96.5	93.0	91.2	89.5
67.5°	105.2	98.2	93.0	91.2	87.8	84.2	79.0	77.2	73.8	73.8	73.8
70°	82.5	77.2	72.0	70.2	68.5	64.9	61.4	61.4	61.4	61.4	61.4
72.5°	61.4	57.9	52.6	50.9	49.1	47.4	43.9	45.6	43.9	43.9	43.9
75°	38.6	35.1	31.6	29.9	28.1	26.4	24.6	22.9	21.0	19.2	19.2
77.5°	21.0	17.5	15.8	14.0	14.0	12.2	10.5	10.5	8.8	8.8	8.8
80°	12.2	10.5	8.8	7.0	7.0	5.2	5.2	5.2	5.2	3.5	3.5
82.5°	7.0	5.2	3.5	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8
85°	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P252366

CATALOG NUMBER: LE\_6B20D010 EC6B10208050 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1340.9	1346.1	1340.9	1346.1	1346.1	1346.1	1346.1	1340.9
5°	1332.0	1335.6	1330.2	1333.8	1335.6	1333.8	1333.8	1328.5
7.5°	1316.2	1319.8	1314.5	1319.8	1321.5	1319.8	1318.0	1314.5
10°	1300.5	1302.2	1297.0	1300.5	1304.0	1304.0	1302.2	1297.0
12.5°	1275.9	1281.1	1275.9	1279.4	1282.9	1284.6	1284.6	1279.4
15°	1247.9	1256.6	1253.1	1258.4	1263.6	1265.4	1265.4	1263.6
17.5°	1219.8	1228.5	1223.2	1232.0	1237.2	1240.8	1242.5	1239.0
20°	1179.4	1189.9	1186.4	1193.4	1200.4	1205.8	1205.8	1200.4
22.5°	1126.8	1140.8	1139.0	1144.2	1153.0	1154.8	1158.2	1154.8
25°	1068.8	1079.4	1077.6	1082.9	1093.4	1093.4	1095.1	1095.1
27.5°	1002.1	1012.6	1010.9	1014.4	1021.4	1023.1	1024.9	1021.4
30°	930.1	935.4	935.4	940.8	946.0	947.8	947.8	942.5
32.5°	851.1	858.2	861.8	860.0	865.2	868.8	867.0	867.0
35°	779.2	781.0	782.8	784.5	786.2	789.8	786.2	784.5
37.5°	702.0	707.2	703.8	707.2	710.8	709.0	707.2	707.2
40°	631.8	633.5	630.0	633.5	635.4	635.4	635.4	631.8
42.5°	561.6	565.1	561.6	565.1	565.1	565.1	565.1	563.4
45°	491.4	494.9	494.9	496.6	496.6	494.9	494.9	494.9
47.5°	426.5	430.0	426.5	430.0	431.8	428.2	428.2	428.2
50°	365.0	363.2	363.2	365.0	365.0	365.0	365.0	363.2
52.5°	301.9	303.6	303.6	303.6	305.4	303.6	305.4	305.4
55°	247.5	247.5	247.5	249.2	247.5	247.5	249.2	251.0
57.5°	198.4	196.5	194.8	194.8	196.5	194.8	194.8	194.8
60°	152.6	150.9	149.1	149.1	149.1	149.1	149.1	147.4
62.5°	114.1	114.1	114.1	115.9	115.9	115.9	115.9	117.6
65°	91.2	91.2	91.2	91.2	91.2	91.2	91.2	93.0
67.5°	73.8	73.8	73.8	75.5	75.5	75.5	75.5	75.5
70°	61.4	61.4	63.1	61.4	63.1	63.1	63.1	63.1
72.5°	42.1	42.1	42.1	42.1	42.1	40.4	42.1	40.4
75°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	15.8
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	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)