

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: P252693

Luminaire Tested: **LE\_6B30D010 EC6B30509027 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252693  
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 EC6B30509027 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2832.5 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

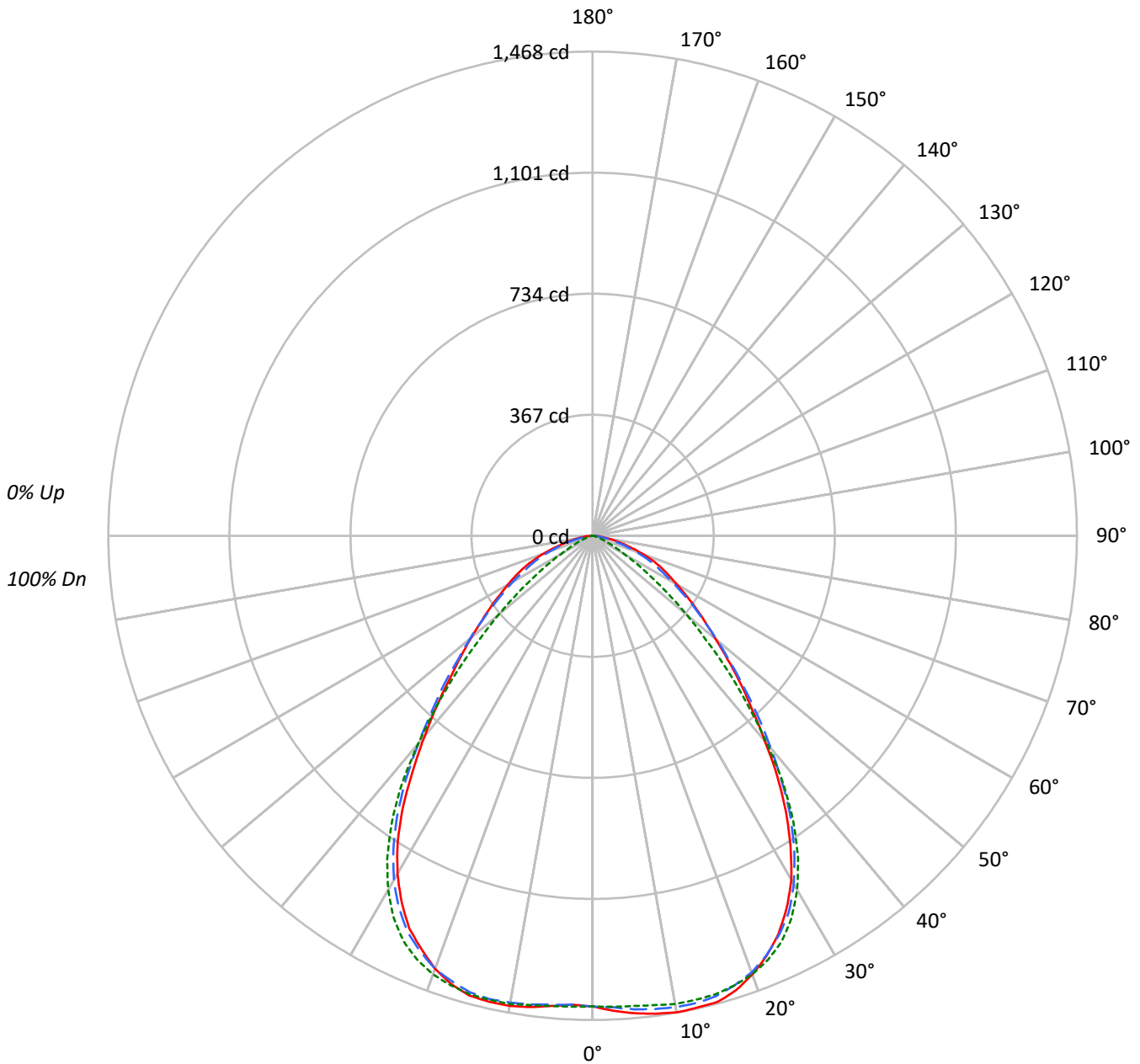
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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°	93105	93105	93105
5°	95183	93723	93723
10°	97218	95475	95873
15°	98841	97200	97477
20°	98240	98240	96977
25°	95899	97641	94588
30°	90777	93368	89112
35°	81348	84566	79732
40°	69103	69964	67383
45°	58477	53439	56429
50°	49378	37696	48759
55°	43393	24341	42938
60°	38466	14483	38727
65°	35521	8722	35521
70°	30806	4998	30043
75°	24426	3050	22913
80°	18222	2254	17433
85°	16618	1497	15046



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.4	4.9
10°-20°	406.6	14.4
20°-30°	611.6	21.6
30°-40°	643.0	22.7
40°-50°	480.3	17.0
50°-60°	299.0	10.6
60°-70°	170.1	6.0
70°-80°	70.0	2.5
80°-90°	14.5	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°	1155.6	40.8
0°-40°	1798.5	63.5
0°-60°	2577.9	91.0
0°-90°	2832.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1427	1427	1427	1427	1427	
5°	1453	1441	1431	1427	1431	139
15°	1463	1445	1439	1433	1443	411
25°	1332	1336	1356	1326	1314	610
35°	1021	1048	1062	1032	1001	634
45°	634	648	579	636	612	491
55°	382	373	214	367	378	343
65°	230	206	56	206	230	227
75°	97	77	12	75	91	105
85°	22	14	2	12	20	25
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°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1441.2	1439.1	1441.2	1437.1	1435.1	1435.1	1437.1	1433.1	1431.1	1433.1	1431.1
5°	1453.4	1449.2	1451.2	1449.2	1445.2	1445.2	1447.2	1441.2	1441.2	1443.2	1441.2
7.5°	1461.4	1461.4	1461.4	1457.4	1455.4	1453.4	1457.4	1451.2	1449.2	1449.2	1447.2
10°	1467.5	1465.4	1467.5	1463.4	1459.4	1457.4	1461.4	1457.4	1453.4	1457.4	1451.2
12.5°	1465.4	1465.4	1465.4	1463.4	1459.4	1457.4	1461.4	1455.4	1453.4	1455.4	1451.2
15°	1463.4	1457.4	1459.4	1457.4	1451.2	1451.2	1453.4	1447.2	1443.2	1449.2	1445.2
17.5°	1445.2	1441.2	1443.2	1439.1	1435.1	1433.1	1435.1	1433.1	1429.1	1433.1	1429.1
20°	1415.0	1415.0	1417.0	1413.0	1408.9	1406.9	1410.9	1406.9	1402.9	1408.9	1408.9
22.5°	1378.6	1378.6	1378.6	1376.6	1374.6	1374.6	1374.6	1372.6	1370.5	1374.6	1376.6
25°	1332.2	1330.1	1332.2	1334.2	1332.2	1330.1	1332.2	1332.2	1328.1	1336.2	1336.2
27.5°	1273.6	1273.6	1277.8	1275.6	1275.6	1273.6	1277.8	1277.8	1275.6	1281.8	1287.8
30°	1205.0	1201.0	1205.0	1205.0	1207.0	1207.0	1209.1	1209.1	1209.1	1215.1	1219.1
32.5°	1116.2	1118.2	1124.2	1122.2	1120.2	1126.4	1126.4	1130.4	1132.4	1136.4	1138.4
35°	1021.4	1023.4	1023.4	1025.4	1029.4	1025.4	1035.5	1033.5	1035.5	1043.5	1047.6
37.5°	920.4	914.4	924.5	920.4	922.5	922.5	926.5	928.5	934.5	944.6	944.6
40°	811.4	813.5	817.5	819.5	821.5	821.5	821.5	827.6	829.6	841.8	839.8
42.5°	716.6	716.6	720.6	722.6	722.6	722.6	722.6	728.6	732.8	736.8	740.8
45°	633.8	627.8	631.8	631.8	635.9	633.8	637.9	641.9	643.9	650.0	647.9
47.5°	555.1	553.1	555.1	557.1	555.1	557.1	559.1	561.1	563.1	563.1	563.1
50°	486.5	486.5	488.5	490.5	490.5	490.5	490.5	492.5	492.5	496.5	492.5
52.5°	430.0	432.0	432.0	430.0	432.0	432.0	434.0	434.0	432.0	432.0	425.9
55°	381.5	379.5	381.5	379.5	381.5	381.5	379.5	379.5	377.5	375.5	373.4
57.5°	335.1	335.1	335.1	335.1	333.0	335.1	333.0	331.0	331.0	327.0	321.0
60°	294.8	294.8	294.8	294.8	294.8	292.6	294.8	292.6	288.6	284.6	276.5
62.5°	260.4	258.4	260.4	258.4	258.4	256.4	256.4	254.4	250.2	246.2	238.1
65°	230.1	232.1	230.1	230.1	228.1	226.1	226.1	224.0	218.0	214.0	205.9
67.5°	197.8	195.8	195.8	195.8	193.8	193.8	193.8	189.8	185.8	179.6	171.6
70°	161.5	161.5	161.5	159.5	159.5	157.5	157.5	155.4	151.4	147.4	137.2
72.5°	127.1	127.1	127.1	123.1	125.1	123.1	123.1	119.1	117.1	111.0	105.0
75°	96.9	96.9	94.9	94.9	92.9	90.9	90.9	88.9	86.8	82.8	76.8
77.5°	70.6	70.6	70.6	68.6	66.6	64.6	64.6	62.6	60.5	58.5	54.5
80°	48.5	48.5	48.5	48.5	46.4	44.4	44.4	42.4	42.4	40.4	36.4
82.5°	32.2	32.2	32.2	32.2	30.2	30.2	30.2	28.2	26.2	26.2	22.2
85°	22.2	22.2	20.1	20.1	20.1	20.1	18.1	18.1	16.1	14.1	14.1
87.5°	12.1	12.1	12.1	12.1	10.1	10.1	10.1	10.1	8.1	8.1	6.0
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°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1437.1	1437.1	1435.1	1429.1	1431.1	1429.1	1431.1	1429.1	1423.0	1429.1	1423.0
5°	1445.2	1447.2	1443.2	1435.1	1437.1	1435.1	1435.1	1433.1	1427.1	1431.1	1427.1
7.5°	1453.4	1451.2	1449.2	1441.2	1443.2	1441.2	1441.2	1437.1	1431.1	1435.1	1429.1
10°	1457.4	1457.4	1453.4	1445.2	1445.2	1443.2	1445.2	1443.2	1435.1	1441.2	1437.1
12.5°	1457.4	1455.4	1455.4	1445.2	1447.2	1445.2	1447.2	1443.2	1437.1	1441.2	1439.1
15°	1451.2	1451.2	1449.2	1439.1	1441.2	1441.2	1443.2	1439.1	1433.1	1439.1	1435.1
17.5°	1439.1	1439.1	1437.1	1429.1	1433.1	1433.1	1435.1	1431.1	1425.0	1429.1	1429.1
20°	1415.0	1417.0	1417.0	1410.9	1415.0	1415.0	1417.0	1415.0	1413.0	1415.0	1410.9
22.5°	1386.8	1390.8	1390.8	1384.6	1388.8	1388.8	1394.8	1392.8	1388.8	1390.8	1388.8
25°	1344.4	1348.4	1352.4	1348.4	1352.4	1352.4	1358.5	1356.4	1352.4	1356.4	1350.4
27.5°	1295.9	1297.9	1301.9	1297.9	1304.0	1301.9	1308.0	1306.0	1299.9	1306.0	1304.0
30°	1227.2	1235.4	1241.4	1235.4	1241.4	1241.4	1245.4	1243.4	1241.4	1239.4	1239.4
32.5°	1150.5	1158.6	1158.6	1156.6	1160.6	1160.6	1162.6	1158.6	1156.6	1158.6	1160.6
35°	1055.6	1059.8	1063.8	1061.8	1063.8	1065.8	1063.8	1065.8	1059.8	1061.8	1061.8
37.5°	952.8	956.8	956.8	950.8	954.8	954.8	950.8	950.8	946.6	950.8	942.6
40°	843.8	839.8	841.8	837.6	833.6	833.6	831.6	823.5	819.5	821.5	823.5
42.5°	736.8	736.8	730.8	720.6	710.5	710.5	704.5	700.4	692.4	696.4	694.4
45°	645.9	635.9	627.8	611.6	605.5	601.5	591.4	581.4	577.2	579.2	577.2
47.5°	559.1	551.0	530.9	508.6	502.6	496.5	484.5	472.4	468.2	464.2	464.2
50°	486.5	472.4	450.1	425.9	415.8	405.8	389.6	377.5	369.4	371.4	371.4
52.5°	419.9	403.8	377.5	347.1	335.1	323.0	308.9	294.8	288.6	286.6	286.6
55°	361.2	343.1	316.9	282.6	272.5	258.4	240.2	224.0	216.0	214.0	218.0
57.5°	308.9	292.6	262.4	228.1	216.0	201.9	183.6	169.5	159.5	157.5	159.5
60°	266.5	244.2	218.0	185.8	169.5	157.5	137.2	125.1	115.0	111.0	113.0
62.5°	224.0	203.9	177.6	145.4	133.2	121.1	103.0	88.9	80.8	78.8	80.8
65°	191.8	171.6	147.4	119.1	107.0	94.9	78.8	64.6	58.5	56.5	58.5
67.5°	159.5	141.2	121.1	94.9	84.8	74.6	58.5	48.5	40.4	38.4	40.4
70°	129.1	113.0	92.9	74.6	64.6	56.5	44.4	34.4	28.2	26.2	28.2
72.5°	96.9	84.8	70.6	54.5	48.5	42.4	32.2	24.2	20.1	18.1	20.1
75°	70.6	60.5	50.5	38.4	34.4	30.2	22.2	16.1	14.1	12.1	14.1
77.5°	48.5	42.4	34.4	26.2	22.2	20.1	14.1	12.1	10.1	8.1	8.1
80°	32.2	28.2	22.2	18.1	16.1	14.1	10.1	8.1	6.0	6.0	6.0
82.5°	20.1	16.1	14.1	10.1	8.1	8.1	6.0	4.0	4.0	4.0	4.0
85°	12.1	10.1	8.1	6.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
87.5°	6.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	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°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1427.1	1423.0	1423.0	1425.0	1427.1	1429.1	1425.0	1423.0	1423.0	1429.1	1425.0
5°	1427.1	1425.0	1425.0	1425.0	1429.1	1431.1	1427.1	1425.0	1427.1	1433.1	1431.1
7.5°	1433.1	1429.1	1431.1	1431.1	1433.1	1437.1	1433.1	1431.1	1433.1	1439.1	1435.1
10°	1437.1	1433.1	1435.1	1433.1	1439.1	1441.2	1437.1	1435.1	1437.1	1445.2	1443.2
12.5°	1439.1	1437.1	1437.1	1435.1	1441.2	1443.2	1439.1	1437.1	1439.1	1445.2	1443.2
15°	1435.1	1433.1	1433.1	1433.1	1437.1	1441.2	1435.1	1433.1	1433.1	1439.1	1437.1
17.5°	1427.1	1423.0	1423.0	1423.0	1425.0	1427.1	1421.0	1419.0	1417.0	1423.0	1421.0
20°	1413.0	1408.9	1404.9	1404.9	1406.9	1406.9	1402.9	1396.8	1396.8	1398.9	1394.8
22.5°	1386.8	1384.6	1380.6	1378.6	1382.6	1380.6	1372.6	1366.5	1364.5	1366.5	1362.5
25°	1350.4	1346.4	1344.4	1342.2	1344.4	1342.2	1334.2	1326.1	1326.1	1326.1	1320.1
27.5°	1299.9	1295.9	1293.9	1293.9	1295.9	1291.9	1283.8	1275.6	1271.6	1271.6	1265.6
30°	1235.4	1235.4	1233.2	1231.2	1229.2	1229.2	1217.1	1209.1	1205.0	1207.0	1203.0
32.5°	1156.6	1154.6	1152.5	1146.5	1148.5	1146.5	1136.4	1130.4	1124.2	1120.2	1118.2
35°	1055.6	1055.6	1053.6	1053.6	1053.6	1051.6	1041.5	1035.5	1031.5	1029.4	1023.4
37.5°	944.6	942.6	940.6	940.6	940.6	940.6	934.5	928.5	928.5	926.5	922.5
40°	819.5	821.5	823.5	821.5	827.6	833.6	825.6	821.5	819.5	825.6	817.5
42.5°	698.4	696.4	706.5	708.5	708.5	718.6	720.6	722.6	720.6	724.6	724.6
45°	581.4	579.2	589.4	593.4	603.5	615.6	621.8	631.8	635.9	639.9	635.9
47.5°	470.2	478.4	486.5	496.5	504.6	524.8	536.9	547.0	551.0	557.1	557.1
50°	377.5	385.5	399.6	407.8	417.9	442.0	462.2	476.4	484.5	490.5	488.5
52.5°	290.6	304.8	323.0	331.0	345.1	373.4	395.6	411.8	421.9	427.9	430.0
55°	224.0	236.1	254.4	266.5	280.6	310.9	339.1	357.2	367.4	375.5	379.5
57.5°	165.5	179.6	199.9	209.9	226.1	260.4	284.6	306.8	318.9	329.0	331.0
60°	121.1	135.2	153.4	165.5	181.6	216.0	244.2	264.4	278.5	286.6	290.6
62.5°	86.8	100.9	119.1	131.2	145.4	175.6	203.9	224.0	238.1	248.2	254.4
65°	62.6	76.8	94.9	105.0	117.1	145.4	171.6	191.8	205.9	218.0	222.0
67.5°	46.4	56.5	72.6	82.8	94.9	117.1	139.2	157.5	171.6	181.6	185.8
70°	34.4	42.4	56.5	62.6	70.6	90.9	109.0	125.1	137.2	145.4	149.4
72.5°	24.2	30.2	40.4	46.4	52.5	68.6	82.8	94.9	103.0	111.0	115.0
75°	16.1	20.1	28.2	32.2	36.4	48.5	58.5	68.6	74.6	80.8	82.8
77.5°	10.1	14.1	20.1	22.2	26.2	32.2	40.4	46.4	50.5	54.5	58.5
80°	6.0	8.1	12.1	14.1	16.1	22.2	26.2	30.2	34.4	38.4	40.4
82.5°	4.0	6.0	8.1	8.1	10.1	12.1	16.1	20.1	22.2	24.2	26.2
85°	2.0	2.0	4.0	4.0	6.0	6.0	8.1	10.1	12.1	14.1	16.1
87.5°	2.0	2.0	2.0	2.0	4.0	4.0	6.0	6.0	6.0	8.1	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





TEST NUMBER: P252693

CATALOG NUMBER: LE\_6B30D010 EC6B30509027 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1421.0	1427.1	1421.0	1425.0	1423.0	1423.0	1421.0	1423.0
5°	1427.1	1435.1	1427.1	1433.1	1429.1	1429.1	1429.1	1431.1
7.5°	1433.1	1441.2	1435.1	1441.2	1439.1	1437.1	1437.1	1441.2
10°	1439.1	1445.2	1441.2	1447.2	1445.2	1443.2	1443.2	1447.2
12.5°	1439.1	1447.2	1443.2	1449.2	1447.2	1445.2	1445.2	1447.2
15°	1433.1	1443.2	1437.1	1443.2	1441.2	1439.1	1439.1	1443.2
17.5°	1415.0	1423.0	1419.0	1423.0	1423.0	1421.0	1423.0	1425.0
20°	1390.8	1396.8	1392.8	1396.8	1396.8	1392.8	1394.8	1396.8
22.5°	1356.4	1362.5	1358.5	1362.5	1360.5	1358.5	1358.5	1356.4
25°	1314.0	1322.1	1316.0	1320.1	1316.0	1312.0	1312.0	1314.0
27.5°	1261.5	1267.6	1259.5	1263.6	1259.5	1255.5	1255.5	1253.5
30°	1192.9	1195.0	1188.9	1192.9	1188.9	1186.9	1182.9	1182.9
32.5°	1110.1	1112.2	1106.1	1106.1	1102.1	1102.1	1094.0	1100.1
35°	1013.2	1015.2	1013.2	1011.2	1005.2	1003.2	1001.1	1001.1
37.5°	912.4	912.4	906.2	904.2	900.2	896.2	898.2	892.1
40°	809.4	807.4	801.4	803.4	801.4	795.2	793.2	791.2
42.5°	712.5	712.5	706.5	708.5	704.5	702.4	696.4	698.4
45°	627.8	627.8	621.8	621.8	619.6	613.6	615.6	611.6
47.5°	551.0	551.0	549.0	549.0	543.0	541.0	541.0	541.0
50°	484.5	484.5	484.5	484.5	482.4	480.4	478.4	480.4
52.5°	427.9	432.0	430.0	430.0	427.9	425.9	423.9	423.9
55°	377.5	379.5	379.5	381.5	379.5	377.5	379.5	377.5
57.5°	333.0	337.1	337.1	337.1	337.1	337.1	335.1	333.0
60°	294.8	296.8	296.8	298.8	298.8	298.8	296.8	296.8
62.5°	256.4	260.4	262.4	262.4	264.4	262.4	262.4	262.4
65°	226.1	230.1	232.1	230.1	232.1	232.1	230.1	230.1
67.5°	189.8	193.8	193.8	193.8	193.8	195.8	193.8	193.8
70°	153.4	157.5	155.4	157.5	157.5	157.5	157.5	157.5
72.5°	117.1	119.1	121.1	121.1	123.1	121.1	121.1	121.1
75°	84.8	88.9	88.9	88.9	88.9	90.9	90.9	90.9
77.5°	60.5	62.6	62.6	64.6	64.6	64.6	64.6	66.6
80°	42.4	42.4	44.4	44.4	46.4	46.4	46.4	46.4
82.5°	28.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
85°	16.1	18.1	18.1	18.1	18.1	20.1	20.1	20.1
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	8.1	8.1
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)