

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: P252695

Luminaire Tested: **LE_6B30D010 EC6B30509035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252695
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 EC6B30509035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2987.5 lumens
Efficiency: N/A
Efficacy: 106.7 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

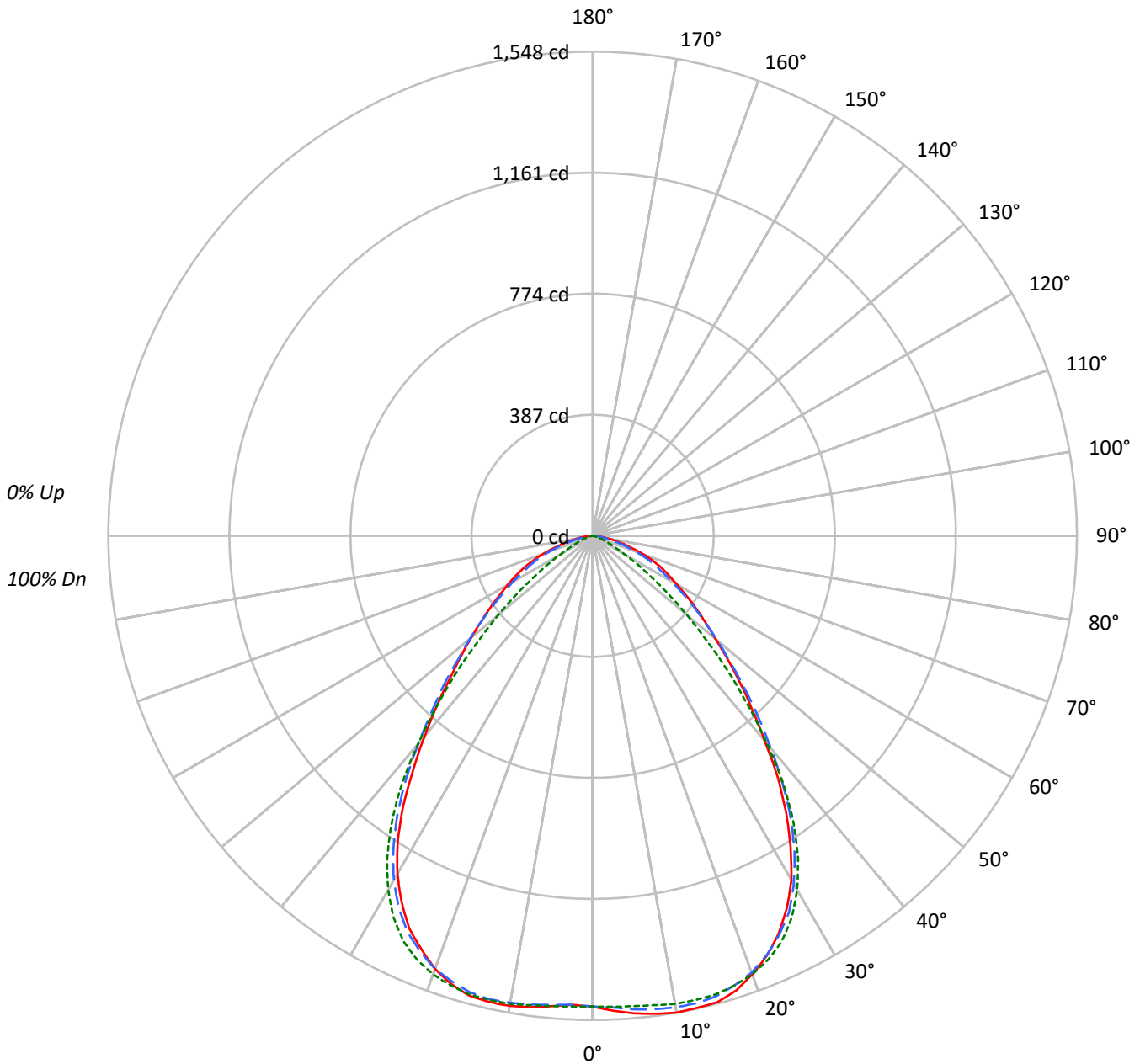
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	98194	98194	98194
5°	100389	98850	98850
10°	102537	100702	101126
15°	104251	102529	102813
20°	103614	103614	102281
25°	101146	102982	99771
30°	95749	98468	93986
35°	85793	89193	84104
40°	72893	73796	71071
45°	61679	56373	59520
50°	52078	39766	51438
55°	45770	25661	45281
60°	40567	15279	40841
65°	37482	9201	37482
70°	32504	5265	31665
75°	25762	3227	24148
80°	19199	2405	18410
85°	17516	1572	15869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	4.9
10°-20°	428.9	14.4
20°-30°	645.0	21.6
30°-40°	678.2	22.7
40°-50°	506.6	17.0
50°-60°	315.4	10.6
60°-70°	179.4	6.0
70°-80°	73.9	2.5
80°-90°	15.3	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°	1218.8	40.8
0°-40°	1897.0	63.5
0°-60°	2719.0	91.0
0°-90°	2987.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2987.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1505	1505	1505	1505	1505	
5°	1533	1520	1509	1505	1509	147
15°	1544	1524	1518	1512	1522	434
25°	1405	1409	1431	1399	1386	643
35°	1077	1105	1120	1088	1056	668
45°	668	683	611	671	645	518
55°	402	394	226	388	398	362
65°	243	217	60	217	243	239
75°	102	81	13	79	96	111
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°	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1520.1	1518.0	1520.1	1515.8	1513.6	1513.6	1515.8	1511.5	1509.4	1511.5	1509.4
5°	1532.9	1528.6	1530.8	1528.6	1524.4	1524.4	1526.5	1520.1	1520.1	1522.2	1520.1
7.5°	1541.4	1541.4	1541.4	1537.1	1535.0	1532.9	1537.1	1530.8	1528.6	1528.6	1526.5
10°	1547.8	1545.6	1547.8	1543.5	1539.2	1537.1	1541.4	1537.1	1532.9	1537.1	1530.8
12.5°	1545.6	1545.6	1545.6	1543.5	1539.2	1537.1	1541.4	1535.0	1532.9	1535.0	1530.8
15°	1543.5	1537.1	1539.2	1537.1	1530.8	1530.8	1532.9	1526.5	1522.2	1528.6	1524.4
17.5°	1524.4	1520.1	1522.2	1518.0	1513.6	1511.5	1513.6	1511.5	1507.2	1511.5	1507.2
20°	1492.4	1492.4	1494.5	1490.2	1486.0	1483.9	1488.1	1483.9	1479.6	1486.0	1486.0
22.5°	1454.1	1454.1	1454.1	1452.0	1449.9	1449.9	1449.9	1447.6	1445.5	1449.9	1452.0
25°	1405.1	1403.0	1405.1	1407.2	1405.1	1403.0	1405.1	1405.1	1400.9	1409.4	1409.4
27.5°	1343.4	1343.4	1347.6	1345.5	1345.5	1343.4	1347.6	1347.6	1345.5	1351.9	1358.2
30°	1271.0	1266.8	1271.0	1271.0	1273.1	1273.1	1275.2	1275.2	1275.2	1281.6	1285.9
32.5°	1177.2	1179.4	1185.9	1183.8	1181.6	1188.0	1188.0	1192.2	1194.4	1198.6	1200.8
35°	1077.2	1079.4	1079.4	1081.5	1085.8	1081.5	1092.1	1090.0	1092.1	1100.6	1104.9
37.5°	970.8	964.4	975.0	970.8	972.9	972.9	977.1	979.4	985.8	996.4	996.4
40°	855.9	858.0	862.2	864.4	866.5	866.5	866.5	872.9	875.0	887.8	885.6
42.5°	755.8	755.8	760.0	762.1	762.1	762.1	762.1	768.5	772.8	777.1	781.4
45°	668.5	662.1	666.4	666.4	670.6	668.5	672.8	677.0	679.1	685.5	683.4
47.5°	585.5	583.4	585.5	587.6	585.5	587.6	589.8	591.9	594.0	594.0	594.0
50°	513.1	513.1	515.2	517.4	517.4	517.4	517.4	519.5	519.5	523.8	519.5
52.5°	453.5	455.6	455.6	453.5	455.6	455.6	457.8	457.8	455.6	455.6	449.2
55°	402.4	400.2	402.4	400.2	402.4	402.4	400.2	400.2	398.1	396.0	393.9
57.5°	353.4	353.4	353.4	353.4	351.2	353.4	351.2	349.1	349.1	344.9	338.5
60°	310.9	310.9	310.9	310.9	310.9	308.8	310.9	308.8	304.5	300.1	291.6
62.5°	274.6	272.5	274.6	272.5	272.5	270.4	270.4	268.2	264.0	259.8	251.2
65°	242.8	244.9	242.8	242.8	240.6	238.5	238.5	236.4	229.9	225.6	217.1
67.5°	208.6	206.5	206.5	206.5	204.4	204.4	204.4	200.1	195.9	189.5	181.0
70°	170.4	170.4	170.4	168.1	168.1	166.0	166.0	163.9	159.6	155.4	144.8
72.5°	134.1	134.1	134.1	129.9	132.0	129.9	129.9	125.6	123.5	117.1	110.8
75°	102.2	102.2	100.0	100.0	97.9	95.8	95.8	93.6	91.5	87.2	80.9
77.5°	74.5	74.5	74.5	72.4	70.2	68.1	68.1	66.0	63.9	61.8	57.5
80°	51.1	51.1	51.1	51.1	49.0	46.9	46.9	44.8	44.8	42.6	38.4
82.5°	34.1	34.1	34.1	34.1	31.9	31.9	31.9	29.8	27.6	27.6	23.4
85°	23.4	23.4	21.2	21.2	21.2	21.2	19.1	19.1	17.0	14.9	14.9
87.5°	12.8	12.8	12.8	12.8	10.6	10.6	10.6	10.6	8.5	8.5	6.4
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°	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1515.8	1515.8	1513.6	1507.2	1509.4	1507.2	1509.4	1507.2	1500.9	1507.2	1500.9
5°	1524.4	1526.5	1522.2	1513.6	1515.8	1513.6	1513.6	1511.5	1505.1	1509.4	1505.1
7.5°	1532.9	1530.8	1528.6	1520.1	1522.2	1520.1	1520.1	1515.8	1509.4	1513.6	1507.2
10°	1537.1	1537.1	1532.9	1524.4	1524.4	1522.2	1524.4	1522.2	1513.6	1520.1	1515.8
12.5°	1537.1	1535.0	1535.0	1524.4	1526.5	1524.4	1526.5	1522.2	1515.8	1520.1	1518.0
15°	1530.8	1530.8	1528.6	1518.0	1520.1	1520.1	1522.2	1518.0	1511.5	1518.0	1513.6
17.5°	1518.0	1518.0	1515.8	1507.2	1511.5	1511.5	1513.6	1509.4	1503.0	1507.2	1507.2
20°	1492.4	1494.5	1494.5	1488.1	1492.4	1492.4	1494.5	1492.4	1490.2	1492.4	1488.1
22.5°	1462.6	1466.9	1466.9	1460.5	1464.8	1464.8	1471.1	1469.0	1464.8	1466.9	1464.8
25°	1417.9	1422.1	1426.4	1422.1	1426.4	1426.4	1432.8	1430.6	1426.4	1430.6	1424.2
27.5°	1366.8	1368.9	1373.1	1368.9	1375.2	1373.1	1379.5	1377.4	1371.0	1377.4	1375.2
30°	1294.4	1302.9	1309.2	1302.9	1309.2	1309.2	1313.5	1311.4	1309.2	1307.1	1307.1
32.5°	1213.5	1222.0	1222.0	1219.9	1224.1	1224.1	1226.2	1222.0	1219.9	1222.0	1224.1
35°	1113.5	1117.8	1122.0	1119.9	1122.0	1124.1	1122.0	1124.1	1117.8	1119.9	1119.9
37.5°	1004.9	1009.1	1009.1	1002.8	1007.0	1007.0	1002.8	1002.8	998.5	1002.8	994.2
40°	889.9	885.6	887.8	883.5	879.2	879.2	877.1	868.6	864.4	866.5	868.6
42.5°	777.1	777.1	770.6	760.0	749.4	749.4	743.0	738.8	730.2	734.5	732.4
45°	681.2	670.6	662.1	645.1	638.6	634.4	623.8	613.1	608.9	611.0	608.9
47.5°	589.8	581.2	559.9	536.5	530.1	523.8	511.0	498.1	493.9	489.6	489.6
50°	513.1	498.1	474.8	449.2	438.6	427.9	410.9	398.1	389.6	391.8	391.8
52.5°	442.9	425.8	398.1	366.1	353.4	340.6	325.8	310.9	304.5	302.2	302.2
55°	381.1	361.9	334.2	298.0	287.4	272.5	253.4	236.4	227.8	225.6	229.9
57.5°	325.8	308.8	276.8	240.6	227.8	212.9	193.8	178.9	168.1	166.0	168.1
60°	281.0	257.6	229.9	195.9	178.9	166.0	144.8	132.0	121.4	117.1	119.2
62.5°	236.4	215.0	187.4	153.2	140.5	127.8	108.6	93.6	85.1	83.0	85.1
65°	202.2	181.0	155.4	125.6	112.9	100.0	83.0	68.1	61.8	59.6	61.8
67.5°	168.1	149.0	127.8	100.0	89.4	78.8	61.8	51.1	42.6	40.5	42.6
70°	136.2	119.2	97.9	78.8	68.1	59.6	46.9	36.2	29.8	27.6	29.8
72.5°	102.2	89.4	74.5	57.5	51.1	44.8	34.1	25.5	21.2	19.1	21.2
75°	74.5	63.9	53.2	40.5	36.2	31.9	23.4	17.0	14.9	12.8	14.9
77.5°	51.1	44.8	36.2	27.6	23.4	21.2	14.9	12.8	10.6	8.5	8.5
80°	34.1	29.8	23.4	19.1	17.0	14.9	10.6	8.5	6.4	6.4	6.4
82.5°	21.2	17.0	14.9	10.6	8.5	8.5	6.4	4.2	4.2	4.2	4.2
85°	12.8	10.6	8.5	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	6.4	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°	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1505.1	1500.9	1500.9	1503.0	1505.1	1507.2	1503.0	1500.9	1500.9	1507.2	1503.0
5°	1505.1	1503.0	1503.0	1503.0	1507.2	1509.4	1505.1	1503.0	1505.1	1511.5	1509.4
7.5°	1511.5	1507.2	1509.4	1509.4	1511.5	1515.8	1511.5	1509.4	1511.5	1518.0	1513.6
10°	1515.8	1511.5	1513.6	1511.5	1518.0	1520.1	1515.8	1513.6	1515.8	1524.4	1522.2
12.5°	1518.0	1515.8	1515.8	1513.6	1520.1	1522.2	1518.0	1515.8	1518.0	1524.4	1522.2
15°	1513.6	1511.5	1511.5	1511.5	1515.8	1520.1	1513.6	1511.5	1511.5	1518.0	1515.8
17.5°	1505.1	1500.9	1500.9	1500.9	1503.0	1505.1	1498.8	1496.6	1494.5	1500.9	1498.8
20°	1490.2	1486.0	1481.8	1481.8	1483.9	1483.9	1479.6	1473.2	1473.2	1475.4	1471.1
22.5°	1462.6	1460.5	1456.2	1454.1	1458.4	1456.2	1447.6	1441.2	1439.1	1441.2	1437.0
25°	1424.2	1420.0	1417.9	1415.8	1417.9	1415.8	1407.2	1398.8	1398.8	1398.8	1392.4
27.5°	1371.0	1366.8	1364.6	1364.6	1366.8	1362.5	1354.0	1345.5	1341.2	1341.2	1334.9
30°	1302.9	1302.9	1300.8	1298.6	1296.5	1296.5	1283.8	1275.2	1271.0	1273.1	1268.9
32.5°	1219.9	1217.8	1215.6	1209.2	1211.4	1209.2	1198.6	1192.2	1185.9	1181.6	1179.4
35°	1113.5	1113.5	1111.2	1111.2	1111.2	1109.1	1098.5	1092.1	1087.9	1085.8	1079.4
37.5°	996.4	994.2	992.1	992.1	992.1	992.1	985.8	979.4	979.4	977.1	972.9
40°	864.4	866.5	868.6	866.5	872.9	879.2	870.8	866.5	864.4	870.8	862.2
42.5°	736.6	734.5	745.1	747.2	747.2	757.9	760.0	762.1	760.0	764.2	764.2
45°	613.1	611.0	621.6	625.9	636.5	649.4	655.8	666.4	670.6	674.9	670.6
47.5°	496.0	504.5	513.1	523.8	532.2	553.5	566.2	577.0	581.2	587.6	587.6
50°	398.1	406.6	421.5	430.0	440.8	466.2	487.5	502.4	511.0	517.4	515.2
52.5°	306.6	321.5	340.6	349.1	364.0	393.9	417.2	434.2	445.0	451.4	453.5
55°	236.4	249.1	268.2	281.0	295.9	327.9	357.6	376.9	387.5	396.0	400.2
57.5°	174.6	189.5	210.8	221.4	238.5	274.6	300.1	323.6	336.4	347.0	349.1
60°	127.8	142.6	161.8	174.6	191.6	227.8	257.6	278.9	293.8	302.2	306.6
62.5°	91.5	106.5	125.6	138.4	153.2	185.2	215.0	236.4	251.2	261.9	268.2
65°	66.0	80.9	100.0	110.8	123.5	153.2	181.0	202.2	217.1	229.9	234.1
67.5°	49.0	59.6	76.6	87.2	100.0	123.5	146.9	166.0	181.0	191.6	195.9
70°	36.2	44.8	59.6	66.0	74.5	95.8	115.0	132.0	144.8	153.2	157.5
72.5°	25.5	31.9	42.6	49.0	55.4	72.4	87.2	100.0	108.6	117.1	121.4
75°	17.0	21.2	29.8	34.1	38.4	51.1	61.8	72.4	78.8	85.1	87.2
77.5°	10.6	14.9	21.2	23.4	27.6	34.1	42.6	49.0	53.2	57.5	61.8
80°	6.4	8.5	12.8	14.9	17.0	23.4	27.6	31.9	36.2	40.5	42.6
82.5°	4.2	6.4	8.5	8.5	10.6	12.8	17.0	21.2	23.4	25.5	27.6
85°	2.1	2.1	4.2	4.2	6.4	6.4	8.5	10.6	12.8	14.9	17.0
87.5°	2.1	2.1	2.1	2.1	4.2	4.2	6.4	6.4	6.4	8.5	8.5
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: P252695

CATALOG NUMBER: LE_6B30D010 EC6B30509035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1498.8	1505.1	1498.8	1503.0	1500.9	1500.9	1498.8	1500.9
5°	1505.1	1513.6	1505.1	1511.5	1507.2	1507.2	1507.2	1509.4
7.5°	1511.5	1520.1	1513.6	1520.1	1518.0	1515.8	1515.8	1520.1
10°	1518.0	1524.4	1520.1	1526.5	1524.4	1522.2	1522.2	1526.5
12.5°	1518.0	1526.5	1522.2	1528.6	1526.5	1524.4	1524.4	1526.5
15°	1511.5	1522.2	1515.8	1522.2	1520.1	1518.0	1518.0	1522.2
17.5°	1492.4	1500.9	1496.6	1500.9	1500.9	1498.8	1500.9	1503.0
20°	1466.9	1473.2	1469.0	1473.2	1473.2	1469.0	1471.1	1473.2
22.5°	1430.6	1437.0	1432.8	1437.0	1434.9	1432.8	1432.8	1430.6
25°	1386.0	1394.5	1388.1	1392.4	1388.1	1383.9	1383.9	1386.0
27.5°	1330.6	1337.0	1328.5	1332.8	1328.5	1324.2	1324.2	1322.1
30°	1258.2	1260.4	1254.0	1258.2	1254.0	1251.9	1247.6	1247.6
32.5°	1170.9	1173.0	1166.6	1166.6	1162.4	1162.4	1153.9	1160.2
35°	1068.8	1070.9	1068.8	1066.6	1060.2	1058.1	1056.0	1056.0
37.5°	962.2	962.2	955.9	953.8	949.5	945.2	947.4	941.0
40°	853.8	851.6	845.2	847.4	845.2	838.8	836.6	834.5
42.5°	751.5	751.5	745.1	747.2	743.0	740.9	734.5	736.6
45°	662.1	662.1	655.8	655.8	653.6	647.2	649.4	645.1
47.5°	581.2	581.2	579.1	579.1	572.6	570.5	570.5	570.5
50°	511.0	511.0	511.0	511.0	508.9	506.8	504.5	506.8
52.5°	451.4	455.6	453.5	453.5	451.4	449.2	447.1	447.1
55°	398.1	400.2	400.2	402.4	400.2	398.1	400.2	398.1
57.5°	351.2	355.5	355.5	355.5	355.5	355.5	353.4	351.2
60°	310.9	313.0	313.0	315.1	315.1	315.1	313.0	313.0
62.5°	270.4	274.6	276.8	276.8	278.9	276.8	276.8	276.8
65°	238.5	242.8	244.9	242.8	244.9	244.9	242.8	242.8
67.5°	200.1	204.4	204.4	204.4	204.4	206.5	204.4	204.4
70°	161.8	166.0	163.9	166.0	166.0	166.0	166.0	166.0
72.5°	123.5	125.6	127.8	127.8	129.9	127.8	127.8	127.8
75°	89.4	93.6	93.6	93.6	93.6	95.8	95.8	95.8
77.5°	63.9	66.0	66.0	68.1	68.1	68.1	68.1	70.2
80°	44.8	44.8	46.9	46.9	49.0	49.0	49.0	49.0
82.5°	29.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9
85°	17.0	19.1	19.1	19.1	19.1	21.2	21.2	21.2
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	8.5	8.5
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)