

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: P252696

Luminaire Tested: **LE_6B30D010 EC6B30509040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252696
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 EC6B30509040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2992.5 lumens
Efficiency: N/A
Efficacy: 106.9 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

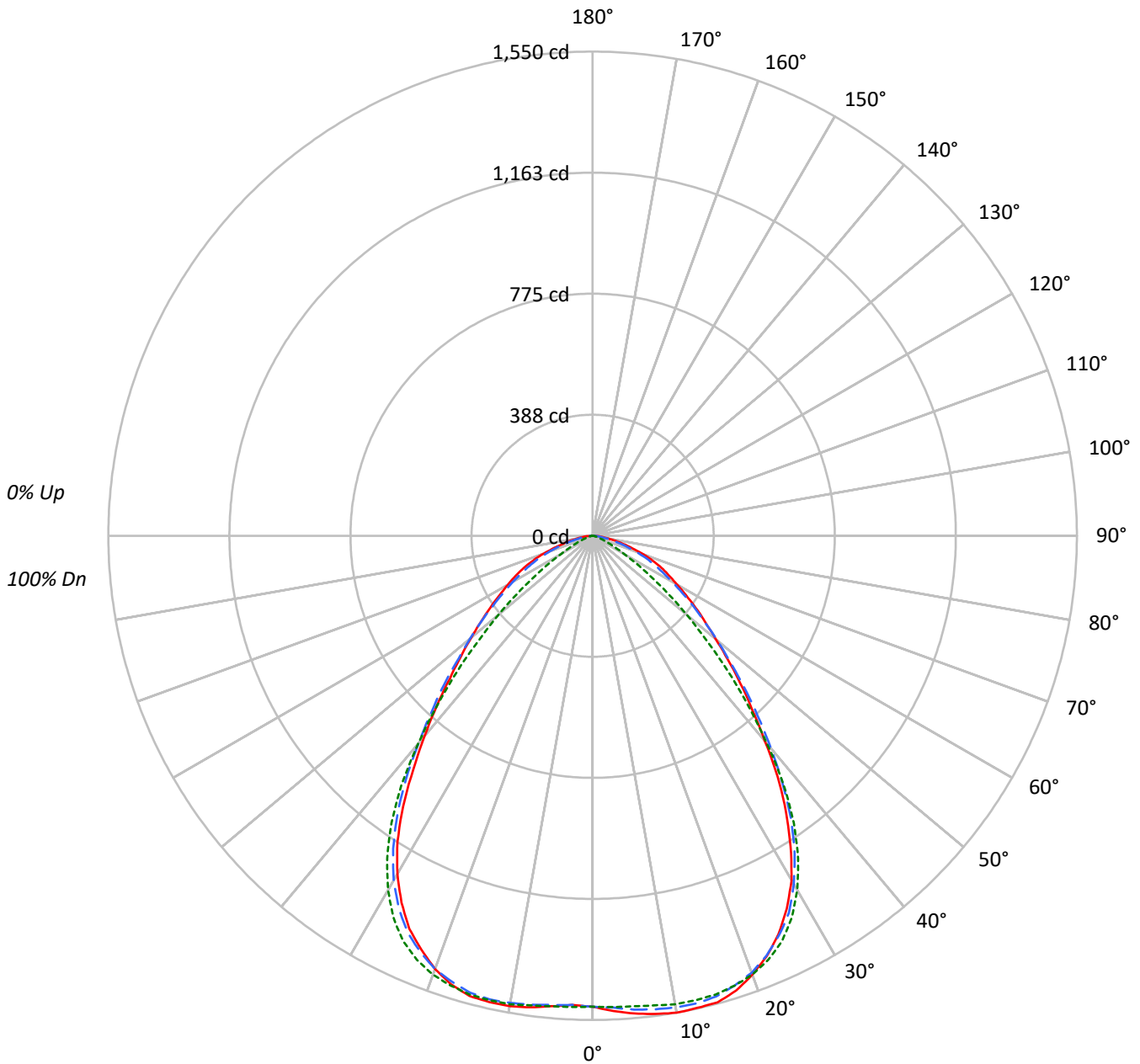
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	98357	98357	98357
5°	100553	99021	99021
10°	102709	100868	101292
15°	104427	102698	102988
20°	103787	103787	102461
25°	101319	103155	99930
30°	95907	98642	94137
35°	85936	89345	84248
40°	73004	73915	71198
45°	61780	56466	59612
50°	52159	39827	51509
55°	45839	25706	45361
60°	40632	15292	40906
65°	37528	9231	37528
70°	32542	5303	31741
75°	25812	3227	24199
80°	19199	2405	18410
85°	17591	1572	16019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.9
10°-20°	429.6	14.4
20°-30°	646.1	21.6
30°-40°	679.3	22.7
40°-50°	507.5	17.0
50°-60°	315.9	10.6
60°-70°	179.7	6.0
70°-80°	74.0	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°	1220.8	40.8
0°-40°	1900.2	63.5
0°-60°	2723.5	91.0
0°-90°	2992.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1508	1508	1508	1508	1508	
5°	1535	1523	1512	1508	1512	147
15°	1546	1527	1520	1514	1525	435
25°	1408	1412	1433	1401	1388	644
35°	1079	1107	1122	1090	1058	670
45°	670	684	612	672	646	519
55°	403	394	226	388	399	362
65°	243	218	60	218	243	239
75°	102	81	13	79	96	111
85°	24	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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1522.6	1520.5	1522.6	1518.4	1516.2	1516.2	1518.4	1514.1	1512.0	1514.1	1512.0
5°	1535.4	1531.1	1533.2	1531.1	1526.9	1526.9	1529.0	1522.6	1522.6	1524.8	1522.6
7.5°	1544.0	1544.0	1544.0	1539.6	1537.5	1535.4	1539.6	1533.2	1531.1	1531.1	1529.0
10°	1550.4	1548.2	1550.4	1546.1	1541.8	1539.6	1544.0	1539.6	1535.4	1539.6	1533.2
12.5°	1548.2	1548.2	1548.2	1546.1	1541.8	1539.6	1544.0	1537.5	1535.4	1537.5	1533.2
15°	1546.1	1539.6	1541.8	1539.6	1533.2	1533.2	1535.4	1529.0	1524.8	1531.1	1526.9
17.5°	1526.9	1522.6	1524.8	1520.5	1516.2	1514.1	1516.2	1514.1	1509.9	1514.1	1509.9
20°	1494.9	1494.9	1497.0	1492.8	1488.5	1486.4	1490.6	1486.4	1482.1	1488.5	1488.5
22.5°	1456.5	1456.5	1456.5	1454.4	1452.2	1452.2	1452.2	1450.1	1448.0	1452.2	1454.4
25°	1407.5	1405.4	1407.5	1409.6	1407.5	1405.4	1407.5	1407.5	1403.2	1411.8	1411.8
27.5°	1345.6	1345.6	1349.9	1347.8	1347.8	1345.6	1349.9	1349.9	1347.8	1354.1	1360.5
30°	1273.1	1268.9	1273.1	1273.1	1275.2	1275.2	1277.4	1277.4	1277.4	1283.8	1288.0
32.5°	1179.2	1181.4	1187.8	1185.6	1183.5	1190.0	1190.0	1194.2	1196.4	1200.6	1202.8
35°	1079.0	1081.1	1081.1	1083.4	1087.6	1083.4	1094.0	1091.9	1094.0	1102.5	1106.8
37.5°	972.4	966.0	976.8	972.4	974.5	974.5	978.9	981.0	987.4	998.0	998.0
40°	857.2	859.4	863.6	865.8	867.9	867.9	867.9	874.4	876.5	889.2	887.1
42.5°	757.0	757.0	761.2	763.5	763.5	763.5	763.5	769.9	774.1	778.4	782.6
45°	669.6	663.2	667.5	667.5	671.8	669.6	673.9	678.1	680.2	686.6	684.5
47.5°	586.5	584.2	586.5	588.6	586.5	588.6	590.8	592.9	595.0	595.0	595.0
50°	513.9	513.9	516.1	518.2	518.2	518.2	518.2	520.4	520.4	524.6	520.4
52.5°	454.2	456.4	456.4	454.2	456.4	456.4	458.5	458.5	456.4	456.4	450.0
55°	403.0	400.9	403.0	400.9	403.0	403.0	400.9	400.9	398.8	396.6	394.5
57.5°	354.0	354.0	354.0	354.0	351.9	354.0	351.9	349.8	349.8	345.5	339.1
60°	311.4	311.4	311.4	311.4	311.4	309.2	311.4	309.2	305.0	300.6	292.1
62.5°	275.1	273.0	275.1	273.0	273.0	270.9	270.9	268.8	264.4	260.1	251.6
65°	243.1	245.2	243.1	243.1	241.0	238.9	238.9	236.8	230.2	226.0	217.5
67.5°	209.0	206.9	206.9	206.9	204.8	204.8	204.8	200.5	196.2	189.8	181.2
70°	170.6	170.6	170.6	168.5	168.5	166.4	166.4	164.2	160.0	155.6	145.0
72.5°	134.4	134.4	134.4	130.1	132.2	130.1	130.1	125.9	123.6	117.2	110.9
75°	102.4	102.4	100.2	100.2	98.1	96.0	96.0	93.9	91.8	87.4	81.0
77.5°	74.6	74.6	74.6	72.5	70.4	68.2	68.2	66.1	64.0	61.9	57.6
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	32.0	32.0	32.0	29.9	27.8	27.8	23.5
85°	23.5	23.5	21.4	21.4	21.4	21.4	19.2	19.2	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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1518.4	1518.4	1516.2	1509.9	1512.0	1509.9	1512.0	1509.9	1503.4	1509.9	1503.4
5°	1526.9	1529.0	1524.8	1516.2	1518.4	1516.2	1516.2	1514.1	1507.6	1512.0	1507.6
7.5°	1535.4	1533.2	1531.1	1522.6	1524.8	1522.6	1522.6	1518.4	1512.0	1516.2	1509.9
10°	1539.6	1539.6	1535.4	1526.9	1526.9	1524.8	1526.9	1524.8	1516.2	1522.6	1518.4
12.5°	1539.6	1537.5	1537.5	1526.9	1529.0	1526.9	1529.0	1524.8	1518.4	1522.6	1520.5
15°	1533.2	1533.2	1531.1	1520.5	1522.6	1522.6	1524.8	1520.5	1514.1	1520.5	1516.2
17.5°	1520.5	1520.5	1518.4	1509.9	1514.1	1514.1	1516.2	1512.0	1505.5	1509.9	1509.9
20°	1494.9	1497.0	1497.0	1490.6	1494.9	1494.9	1497.0	1494.9	1492.8	1494.9	1490.6
22.5°	1465.0	1469.2	1469.2	1462.9	1467.1	1467.1	1473.6	1471.4	1467.1	1469.2	1467.1
25°	1420.2	1424.5	1428.8	1424.5	1428.8	1428.8	1435.1	1433.0	1428.8	1433.0	1426.6
27.5°	1369.1	1371.2	1375.5	1371.2	1377.6	1375.5	1381.9	1379.8	1373.4	1379.8	1377.6
30°	1296.6	1305.1	1311.5	1305.1	1311.5	1311.5	1315.8	1313.6	1311.5	1309.4	1309.4
32.5°	1215.5	1224.0	1224.0	1221.9	1226.2	1226.2	1228.4	1224.0	1221.9	1224.0	1226.2
35°	1115.2	1119.6	1123.9	1121.8	1123.9	1126.0	1123.9	1126.0	1119.6	1121.8	1121.8
37.5°	1006.5	1010.8	1010.8	1004.4	1008.6	1008.6	1004.4	1004.4	1000.1	1004.4	995.9
40°	891.4	887.1	889.2	885.0	880.8	880.8	878.6	870.1	865.8	867.9	870.1
42.5°	778.4	778.4	772.0	761.2	750.6	750.6	744.2	740.0	731.5	735.8	733.6
45°	682.4	671.8	663.2	646.1	639.8	635.5	624.9	614.1	609.9	612.0	609.9
47.5°	590.8	582.1	560.9	537.4	531.0	524.6	511.8	499.0	494.8	490.5	490.5
50°	513.9	499.0	475.5	450.0	439.2	428.6	411.6	398.8	390.2	392.4	392.4
52.5°	443.5	426.5	398.8	366.8	354.0	341.2	326.2	311.4	305.0	302.9	302.9
55°	381.8	362.5	334.8	298.5	287.9	273.0	253.8	236.8	228.1	226.0	230.2
57.5°	326.2	309.2	277.2	241.0	228.1	213.2	194.0	179.1	168.5	166.4	168.5
60°	281.5	258.0	230.2	196.2	179.1	166.4	145.0	132.2	121.5	117.2	119.4
62.5°	236.8	215.4	187.6	153.5	140.8	128.0	108.8	93.9	85.2	83.1	85.2
65°	202.6	181.2	155.6	125.9	113.0	100.2	83.1	68.2	61.9	59.8	61.9
67.5°	168.5	149.2	128.0	100.2	89.6	78.9	61.9	51.1	42.6	40.5	42.6
70°	136.5	119.4	98.1	78.9	68.2	59.8	46.9	36.2	29.9	27.8	29.9
72.5°	102.4	89.6	74.6	57.6	51.1	44.8	34.1	25.6	21.4	19.2	21.4
75°	74.6	64.0	53.4	40.5	36.2	32.0	23.5	17.0	14.9	12.8	14.9
77.5°	51.1	44.8	36.2	27.8	23.5	21.4	14.9	12.8	10.6	8.5	8.5
80°	34.1	29.9	23.5	19.2	17.0	14.9	10.6	8.5	6.4	6.4	6.4
82.5°	21.4	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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1507.6	1503.4	1503.4	1505.5	1507.6	1509.9	1505.5	1503.4	1503.4	1509.9	1505.5
5°	1507.6	1505.5	1505.5	1505.5	1509.9	1512.0	1507.6	1505.5	1507.6	1514.1	1512.0
7.5°	1514.1	1509.9	1512.0	1512.0	1514.1	1518.4	1514.1	1512.0	1514.1	1520.5	1516.2
10°	1518.4	1514.1	1516.2	1514.1	1520.5	1522.6	1518.4	1516.2	1518.4	1526.9	1524.8
12.5°	1520.5	1518.4	1518.4	1516.2	1522.6	1524.8	1520.5	1518.4	1520.5	1526.9	1524.8
15°	1516.2	1514.1	1514.1	1514.1	1518.4	1522.6	1516.2	1514.1	1514.1	1520.5	1518.4
17.5°	1507.6	1503.4	1503.4	1503.4	1505.5	1507.6	1501.2	1499.1	1497.0	1503.4	1501.2
20°	1492.8	1488.5	1484.2	1484.2	1486.4	1486.4	1482.1	1475.8	1475.8	1477.9	1473.6
22.5°	1465.0	1462.9	1458.6	1456.5	1460.8	1458.6	1450.1	1443.8	1441.6	1443.8	1439.5
25°	1426.6	1422.4	1420.2	1418.1	1420.2	1418.1	1409.6	1401.0	1401.0	1401.0	1394.6
27.5°	1373.4	1369.1	1367.0	1367.0	1369.1	1364.8	1356.2	1347.8	1343.5	1343.5	1337.1
30°	1305.1	1305.1	1303.0	1300.9	1298.8	1298.8	1285.9	1277.4	1273.1	1275.2	1271.0
32.5°	1221.9	1219.8	1217.6	1211.2	1213.4	1211.2	1200.6	1194.2	1187.8	1183.5	1181.4
35°	1115.2	1115.2	1113.1	1113.1	1113.1	1111.0	1100.4	1094.0	1089.8	1087.6	1081.1
37.5°	998.0	995.9	993.8	993.8	993.8	993.8	987.4	981.0	981.0	978.9	974.5
40°	865.8	867.9	870.1	867.9	874.4	880.8	872.2	867.9	865.8	872.2	863.6
42.5°	737.9	735.8	746.4	748.5	748.5	759.1	761.2	763.5	761.2	765.6	765.6
45°	614.1	612.0	622.8	627.0	637.6	650.4	656.9	667.5	671.8	676.0	671.8
47.5°	496.9	505.4	513.9	524.6	533.1	554.5	567.2	577.9	582.1	588.6	588.6
50°	398.8	407.2	422.2	430.8	441.4	467.0	488.4	503.2	511.8	518.2	516.1
52.5°	307.1	322.0	341.2	349.8	364.6	394.5	418.0	435.0	445.8	452.1	454.2
55°	236.8	249.5	268.8	281.5	296.4	328.4	358.2	377.5	388.1	396.6	400.9
57.5°	174.9	189.8	211.1	221.8	238.9	275.1	300.6	324.1	336.9	347.6	349.8
60°	128.0	142.9	162.1	174.9	191.9	228.1	258.0	279.4	294.2	302.9	307.1
62.5°	91.8	106.6	125.9	138.6	153.5	185.5	215.4	236.8	251.6	262.2	268.8
65°	66.1	81.0	100.2	110.9	123.6	153.5	181.2	202.6	217.5	230.2	234.6
67.5°	49.0	59.8	76.8	87.4	100.2	123.6	147.1	166.4	181.2	191.9	196.2
70°	36.2	44.8	59.8	66.1	74.6	96.0	115.1	132.2	145.0	153.5	157.8
72.5°	25.6	32.0	42.6	49.0	55.5	72.5	87.4	100.2	108.8	117.2	121.5
75°	17.0	21.4	29.9	34.1	38.4	51.1	61.9	72.5	78.9	85.2	87.4
77.5°	10.6	14.9	21.4	23.5	27.8	34.1	42.6	49.0	53.4	57.6	61.9
80°	6.4	8.5	12.8	14.9	17.0	23.5	27.8	32.0	36.2	40.5	42.6
82.5°	4.2	6.4	8.5	8.5	10.6	12.8	17.0	21.4	23.5	25.6	27.8
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: P252696

CATALOG NUMBER: LE_6B30D010 EC6B30509040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1501.2	1507.6	1501.2	1505.5	1503.4	1503.4	1501.2	1503.4
5°	1507.6	1516.2	1507.6	1514.1	1509.9	1509.9	1509.9	1512.0
7.5°	1514.1	1522.6	1516.2	1522.6	1520.5	1518.4	1518.4	1522.6
10°	1520.5	1526.9	1522.6	1529.0	1526.9	1524.8	1524.8	1529.0
12.5°	1520.5	1529.0	1524.8	1531.1	1529.0	1526.9	1526.9	1529.0
15°	1514.1	1524.8	1518.4	1524.8	1522.6	1520.5	1520.5	1524.8
17.5°	1494.9	1503.4	1499.1	1503.4	1503.4	1501.2	1503.4	1505.5
20°	1469.2	1475.8	1471.4	1475.8	1475.8	1471.4	1473.6	1475.8
22.5°	1433.0	1439.5	1435.1	1439.5	1437.4	1435.1	1435.1	1433.0
25°	1388.2	1396.8	1390.4	1394.6	1390.4	1386.1	1386.1	1388.2
27.5°	1332.9	1339.2	1330.6	1335.0	1330.6	1326.4	1326.4	1324.2
30°	1260.4	1262.5	1256.0	1260.4	1256.0	1253.9	1249.6	1249.6
32.5°	1172.9	1175.0	1168.6	1168.6	1164.4	1164.4	1155.9	1162.2
35°	1070.5	1072.6	1070.5	1068.4	1062.0	1059.9	1057.8	1057.8
37.5°	963.9	963.9	957.5	955.4	951.1	946.9	949.0	942.6
40°	855.1	853.0	846.6	848.8	846.6	840.2	838.1	836.0
42.5°	752.8	752.8	746.4	748.5	744.2	742.1	735.8	737.9
45°	663.2	663.2	656.9	656.9	654.6	648.2	650.4	646.1
47.5°	582.1	582.1	580.0	580.0	573.6	571.5	571.5	571.5
50°	511.8	511.8	511.8	511.8	509.6	507.5	505.4	507.5
52.5°	452.1	456.4	454.2	454.2	452.1	450.0	447.9	447.9
55°	398.8	400.9	400.9	403.0	400.9	398.8	400.9	398.8
57.5°	351.9	356.1	356.1	356.1	356.1	356.1	354.0	351.9
60°	311.4	313.5	313.5	315.6	315.6	315.6	313.5	313.5
62.5°	270.9	275.1	277.2	277.2	279.4	277.2	277.2	277.2
65°	238.9	243.1	245.2	243.1	245.2	245.2	243.1	243.1
67.5°	200.5	204.8	204.8	204.8	204.8	206.9	204.8	204.8
70°	162.1	166.4	164.2	166.4	166.4	166.4	166.4	166.4
72.5°	123.6	125.9	128.0	128.0	130.1	128.0	128.0	128.0
75°	89.6	93.9	93.9	93.9	93.9	96.0	96.0	96.0
77.5°	64.0	66.1	66.1	68.2	68.2	68.2	68.2	70.4
80°	44.8	44.8	46.9	46.9	49.0	49.0	49.0	49.0
82.5°	29.9	32.0	32.0	32.0	32.0	32.0	32.0	32.0
85°	17.0	19.2	19.2	19.2	19.2	21.4	21.4	21.4
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)