

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: P252383

Luminaire Tested: **LE_6B30D010 EC6B30509035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252383
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_6B30D010 EC6B30509035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2893.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

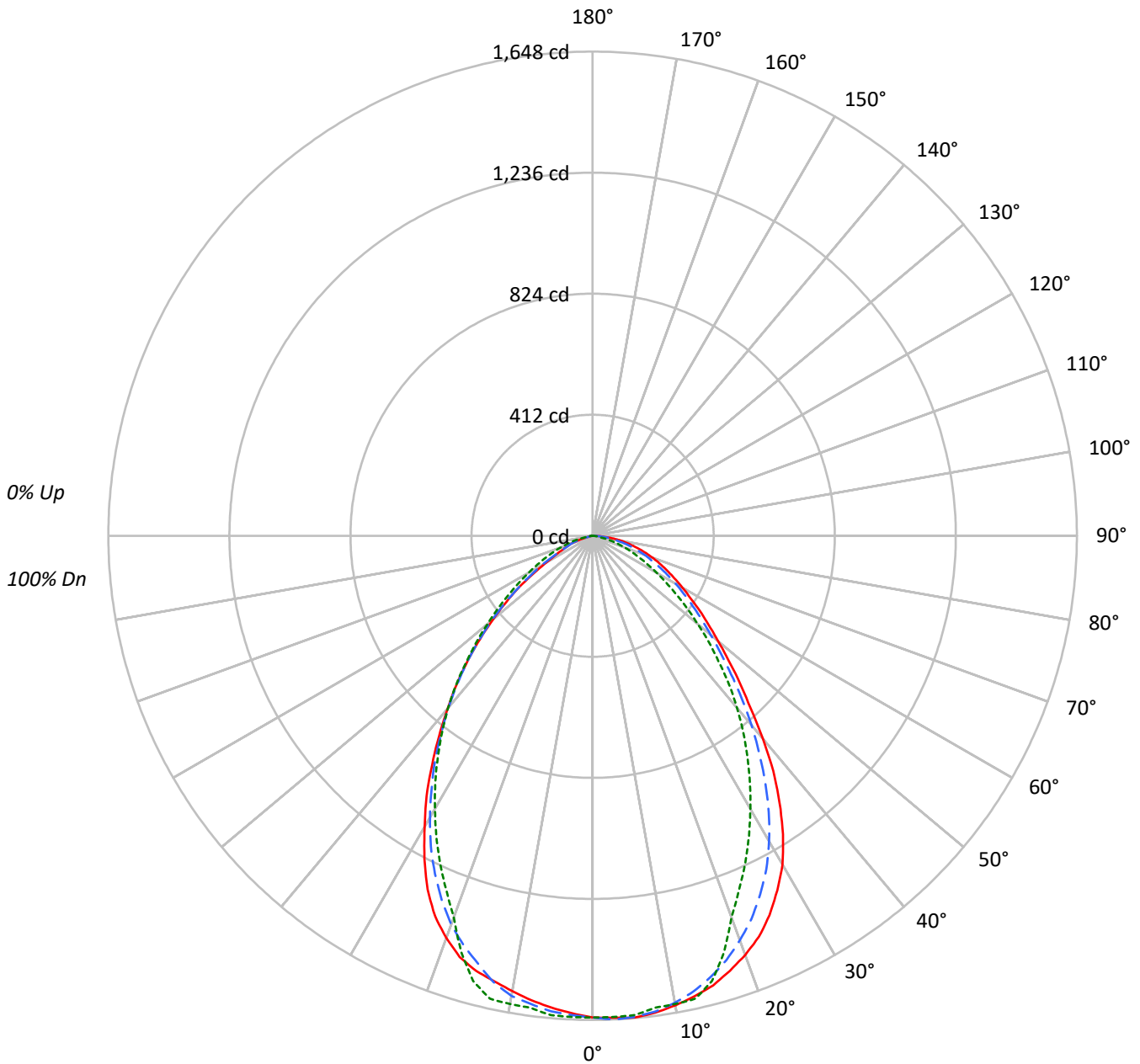
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	106969	106969	106969
5°	107796	107240	105570
10°	107492	107214	104246
15°	107000	106001	103549
20°	105405	95949	101121
25°	102543	88441	95654
30°	97368	80848	86144
35°	88357	73097	75813
40°	76717	65109	65288
45°	65425	55995	55405
50°	56625	47338	44740
55°	50616	39480	34635
60°	46125	32777	23343
65°	43070	26953	17429
70°	41031	21936	14612
75°	38668	15578	4815
80°	36819	7965	1578
85°	30316	4791	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	5.4
10°-20°	433.1	15.0
20°-30°	597.8	20.7
30°-40°	608.3	21.0
40°-50°	488.9	16.9
50°-60°	325.0	11.2
60°-70°	185.2	6.4
70°-80°	83.2	2.9
80°-90°	17.5	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°	1185.6	41.0
0°-40°	1793.9	62.0
0°-60°	2607.8	90.1
0°-90°	2893.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1640	1640	1640	1640	1640	
5°	1646	1644	1638	1625	1612	156
15°	1584	1554	1569	1508	1533	446
25°	1424	1348	1229	1269	1329	653
35°	1109	1024	918	935	952	689
45°	709	666	607	600	600	550
55°	445	415	347	309	304	400
65°	279	249	175	113	113	278
75°	153	128	62	26	19	164
85°	40	28	6	2	0	48
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°	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6
2.5°	1641.8	1650.2	1648.1	1646.0	1648.1	1646.0	1641.8	1641.8	1637.5	1637.5	1648.1
5°	1646.0	1650.2	1648.1	1646.0	1646.0	1648.1	1639.6	1639.6	1635.4	1633.2	1643.9
7.5°	1637.5	1643.9	1639.6	1639.6	1637.5	1639.6	1631.1	1631.1	1624.8	1622.6	1633.2
10°	1622.6	1631.1	1626.9	1626.9	1626.9	1622.6	1618.4	1616.2	1609.8	1607.6	1614.1
12.5°	1605.5	1612.0	1609.8	1605.5	1605.5	1605.5	1597.0	1594.9	1586.4	1582.1	1588.5
15°	1584.2	1588.5	1586.4	1584.2	1580.0	1580.0	1571.5	1567.2	1558.8	1550.2	1554.5
17.5°	1552.4	1558.8	1554.5	1552.4	1545.9	1545.9	1537.4	1533.1	1520.4	1511.9	1514.0
20°	1518.2	1520.4	1518.2	1514.0	1507.6	1505.5	1497.0	1488.4	1477.8	1467.1	1465.0
22.5°	1477.8	1479.9	1473.5	1469.2	1462.9	1460.8	1450.1	1443.8	1426.6	1413.9	1411.8
25°	1424.5	1426.6	1426.6	1416.0	1411.8	1407.5	1396.9	1386.2	1371.4	1354.2	1347.9
27.5°	1360.6	1367.0	1362.8	1352.1	1343.6	1341.5	1330.9	1322.4	1303.1	1288.2	1279.8
30°	1292.5	1290.4	1288.2	1281.9	1269.1	1267.0	1256.4	1245.8	1230.8	1211.6	1201.0
32.5°	1205.2	1205.2	1203.1	1196.8	1183.9	1179.6	1171.1	1158.4	1141.4	1126.5	1115.8
35°	1109.4	1111.5	1109.4	1096.6	1088.1	1083.9	1079.6	1064.8	1049.8	1032.8	1024.2
37.5°	1009.4	1003.0	1005.1	994.4	983.8	988.0	975.2	968.9	951.9	939.0	930.5
40°	900.8	905.0	896.5	892.2	885.9	879.4	879.4	868.8	860.2	845.4	841.1
42.5°	794.2	800.6	798.5	794.2	785.8	787.9	777.2	773.0	762.4	755.9	749.5
45°	709.1	709.1	709.1	704.9	702.8	698.4	692.0	685.6	679.2	670.8	666.5
47.5°	626.0	626.0	628.1	623.9	619.6	617.5	613.2	613.2	602.6	594.1	589.9
50°	557.9	557.9	557.9	553.6	549.4	549.4	545.1	540.9	534.5	528.1	523.9
52.5°	496.1	496.1	496.1	491.9	489.8	487.6	485.5	483.4	474.9	470.6	466.4
55°	445.0	442.9	442.9	440.8	436.5	436.5	434.4	430.1	423.8	417.4	415.2
57.5°	393.9	396.1	393.9	393.9	389.6	389.6	385.4	383.2	376.9	372.6	368.4
60°	353.5	353.5	353.5	351.4	347.1	349.2	345.0	342.9	336.5	330.0	325.8
62.5°	313.0	315.1	315.1	313.0	308.8	308.8	306.6	304.5	298.1	291.8	285.4
65°	279.0	279.0	279.0	276.9	274.8	274.8	272.5	270.4	264.0	255.5	249.1
67.5°	247.0	244.9	244.9	244.9	242.8	240.6	238.5	236.4	230.0	223.6	215.1
70°	215.1	215.1	215.1	213.0	208.6	210.8	208.6	206.5	200.1	193.8	187.4
72.5°	185.2	185.2	183.1	181.0	181.0	178.9	178.9	176.8	170.4	161.9	155.5
75°	153.4	153.4	153.4	153.4	149.0	151.1	146.9	144.8	140.5	134.1	127.8
77.5°	125.6	125.6	125.6	123.5	121.4	121.4	119.2	117.1	110.8	106.5	98.0
80°	98.0	98.0	98.0	98.0	95.9	93.8	91.6	89.4	85.1	78.8	72.4
82.5°	72.4	72.4	70.2	70.2	70.2	68.1	66.0	63.9	59.6	55.4	51.1
85°	40.5	42.6	42.6	38.4	40.5	38.4	38.4	34.1	34.1	29.8	27.6
87.5°	14.9	12.8	12.8	12.8	12.8	12.8	12.8	10.6	10.6	10.6	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6
2.5°	1639.6	1637.5	1646.0	1646.0	1633.2	1639.6	1641.8	1637.5	1637.5	1639.6	1633.2
5°	1635.4	1631.1	1639.6	1641.8	1629.0	1635.4	1637.5	1633.2	1635.4	1637.5	1629.0
7.5°	1620.5	1620.5	1626.9	1629.0	1616.2	1622.6	1622.6	1618.4	1620.5	1620.5	1614.1
10°	1605.5	1599.1	1605.5	1605.5	1594.9	1597.0	1601.2	1599.1	1607.6	1618.4	1618.4
12.5°	1577.9	1571.5	1582.1	1582.1	1575.8	1584.2	1594.9	1601.2	1609.8	1614.1	1601.2
15°	1543.8	1545.9	1565.1	1580.0	1573.6	1586.4	1597.0	1592.8	1582.1	1569.4	1550.2
17.5°	1499.1	1492.8	1509.8	1518.2	1509.8	1514.0	1522.5	1514.0	1497.0	1486.2	1460.8
20°	1448.0	1431.0	1431.0	1426.6	1411.8	1411.8	1409.6	1394.8	1388.4	1382.0	1371.4
22.5°	1390.5	1371.4	1364.9	1352.1	1339.4	1337.2	1330.9	1316.0	1307.5	1303.1	1290.4
25°	1324.5	1307.5	1296.8	1284.0	1264.9	1260.6	1254.2	1239.2	1235.0	1228.6	1218.0
27.5°	1256.4	1235.0	1220.1	1207.4	1190.4	1188.2	1175.4	1164.8	1156.2	1152.0	1143.5
30°	1177.5	1154.1	1143.5	1126.5	1113.6	1109.4	1098.8	1083.9	1077.5	1073.2	1066.9
32.5°	1090.2	1071.1	1060.4	1045.5	1028.5	1030.6	1017.9	1005.1	1000.8	996.5	990.1
35°	1005.1	985.9	973.1	960.4	949.8	945.5	936.9	926.2	919.9	917.8	913.5
37.5°	911.4	896.5	885.9	873.0	864.5	860.2	856.0	845.4	841.1	841.1	832.6
40°	819.8	807.0	798.5	792.1	781.5	779.4	775.1	768.8	766.6	764.5	758.0
42.5°	736.8	719.8	713.4	709.1	702.8	698.4	696.2	692.0	689.9	687.8	681.4
45°	658.0	643.1	636.6	632.4	626.0	623.9	621.8	615.4	611.1	606.9	604.8
47.5°	581.4	570.6	568.5	557.9	553.6	549.4	545.1	540.9	538.8	536.6	528.1
50°	515.2	508.9	498.2	491.9	487.6	485.5	477.0	470.6	468.5	466.4	460.0
52.5°	455.6	447.1	440.8	430.1	428.0	423.8	419.5	411.0	406.8	404.6	398.2
55°	402.5	396.1	387.5	379.0	372.6	370.5	364.1	355.6	351.4	347.1	342.9
57.5°	357.8	347.1	338.6	330.0	325.8	319.4	313.0	308.8	302.4	296.0	289.6
60°	315.1	306.6	296.0	287.5	283.2	279.0	270.4	264.0	257.6	251.2	244.9
62.5°	274.8	266.1	255.5	247.0	242.8	238.5	230.0	223.6	217.2	210.8	202.2
65°	238.5	230.0	221.5	213.0	208.6	204.4	195.9	187.4	181.0	174.6	166.1
67.5°	208.6	198.0	189.5	181.0	176.8	172.5	164.0	157.6	149.0	142.6	134.1
70°	176.8	168.2	161.9	153.4	149.0	144.8	136.2	127.8	121.4	115.0	106.5
72.5°	149.0	138.4	132.0	123.5	119.2	117.1	108.6	102.2	95.9	87.2	80.9
75°	119.2	110.8	102.2	95.9	91.6	89.4	80.9	74.5	68.1	61.8	55.4
77.5°	91.6	85.1	76.6	70.2	66.0	63.9	55.4	49.0	42.6	38.4	32.0
80°	68.1	59.6	55.4	49.0	46.9	42.6	38.4	32.0	27.6	21.2	17.0
82.5°	46.9	40.5	36.2	32.0	29.8	27.6	23.4	19.1	14.9	12.8	10.6
85°	25.5	21.2	19.1	17.0	14.9	14.9	12.8	10.6	8.5	6.4	4.2
87.5°	8.5	6.4	6.4	6.4	6.4	4.2	4.2	4.2	2.1	2.1	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°	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6
2.5°	1637.5	1637.5	1637.5	1635.4	1635.4	1635.4	1633.2	1641.8	1633.2	1631.1	1637.5
5°	1635.4	1631.1	1631.1	1631.1	1631.1	1629.0	1626.9	1631.1	1624.8	1622.6	1622.6
7.5°	1622.6	1620.5	1620.5	1618.4	1616.2	1614.1	1612.0	1614.1	1607.6	1605.5	1605.5
10°	1624.8	1620.5	1620.5	1614.1	1609.8	1603.4	1597.0	1599.1	1590.6	1584.2	1584.2
12.5°	1599.1	1588.5	1582.1	1575.8	1571.5	1569.4	1560.9	1565.1	1556.6	1554.5	1554.5
15°	1541.6	1528.9	1518.2	1514.0	1514.0	1509.8	1503.4	1511.9	1507.6	1509.8	1520.4
17.5°	1452.2	1445.9	1439.5	1437.4	1439.5	1443.8	1448.0	1460.8	1460.8	1467.1	1477.8
20°	1373.5	1369.2	1373.5	1373.5	1375.6	1384.1	1392.6	1403.2	1407.5	1413.9	1428.9
22.5°	1296.8	1296.8	1301.0	1307.5	1305.2	1320.2	1322.4	1341.5	1341.5	1354.2	1367.0
25°	1222.2	1222.2	1226.5	1228.6	1232.9	1241.4	1250.0	1264.9	1269.1	1281.9	1292.5
27.5°	1149.9	1147.8	1147.8	1149.9	1154.1	1164.8	1169.0	1186.1	1192.5	1201.0	1211.6
30°	1069.0	1066.9	1071.1	1075.4	1073.2	1083.9	1090.2	1103.0	1107.2	1115.8	1124.4
32.5°	992.2	992.2	992.2	996.5	996.5	1005.1	1005.1	1020.0	1020.0	1026.4	1034.9
35°	913.5	913.5	915.6	917.8	919.9	922.0	924.1	932.6	934.8	936.9	941.1
37.5°	839.0	836.9	839.0	839.0	834.8	843.2	843.2	851.8	845.4	851.8	853.9
40°	762.4	762.4	760.2	760.2	760.2	764.5	760.2	766.6	762.4	766.6	764.5
42.5°	683.5	683.5	679.2	683.5	681.4	681.4	681.4	685.6	679.2	683.5	685.6
45°	604.8	602.6	602.6	600.5	600.5	600.5	602.6	602.6	600.5	604.8	604.8
47.5°	528.1	526.0	526.0	526.0	526.0	528.1	521.8	526.0	521.8	521.8	521.8
50°	462.1	460.0	457.9	455.6	453.5	453.5	451.4	451.4	447.1	445.0	442.9
52.5°	398.2	396.1	391.8	391.8	389.6	387.5	381.1	381.1	374.8	372.6	372.6
55°	340.8	334.4	332.1	327.9	327.9	323.6	319.4	315.1	308.8	304.5	304.5
57.5°	287.5	281.1	276.9	274.8	272.5	268.2	259.8	257.6	249.1	247.0	244.9
60°	240.6	234.2	227.9	223.6	221.5	215.1	206.5	202.2	198.0	191.6	185.2
62.5°	195.9	189.5	181.0	178.9	174.6	168.2	161.9	155.5	151.1	144.8	140.5
65°	157.6	151.1	144.8	140.5	136.2	129.9	123.5	117.1	112.9	110.8	108.6
67.5°	127.8	119.2	112.9	110.8	106.5	102.2	95.9	93.8	89.4	89.4	89.4
70°	100.1	93.8	87.2	85.1	83.0	78.8	74.5	74.5	74.5	74.5	74.5
72.5°	74.5	70.2	63.9	61.8	59.6	57.5	53.2	55.4	53.2	53.2	53.2
75°	46.9	42.6	38.4	36.2	34.1	32.0	29.8	27.6	25.5	23.4	23.4
77.5°	25.5	21.2	19.1	17.0	17.0	14.9	12.8	12.8	10.6	10.6	10.6
80°	14.9	12.8	10.6	8.5	8.5	6.4	6.4	6.4	6.4	4.2	4.2
82.5°	8.5	6.4	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
85°	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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



TEST NUMBER: P252383

CATALOG NUMBER: LE_6B30D010 EC6B30509035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6	1639.6
2.5°	1626.9	1633.2	1626.9	1633.2	1633.2	1633.2	1633.2	1626.9
5°	1616.2	1620.5	1614.1	1618.4	1620.5	1618.4	1618.4	1612.0
7.5°	1597.0	1601.2	1594.9	1601.2	1603.4	1601.2	1599.1	1594.9
10°	1577.9	1580.0	1573.6	1577.9	1582.1	1582.1	1580.0	1573.6
12.5°	1548.0	1554.5	1548.0	1552.4	1556.6	1558.8	1558.8	1552.4
15°	1514.0	1524.6	1520.4	1526.8	1533.1	1535.2	1535.2	1533.1
17.5°	1479.9	1490.6	1484.1	1494.9	1501.2	1505.5	1507.6	1503.4
20°	1431.0	1443.8	1439.5	1448.0	1456.5	1462.9	1462.9	1456.5
22.5°	1367.0	1384.1	1382.0	1388.4	1399.0	1401.1	1405.4	1401.1
25°	1296.8	1309.6	1307.5	1313.9	1326.6	1326.6	1328.8	1328.8
27.5°	1215.9	1228.6	1226.5	1230.8	1239.2	1241.4	1243.5	1239.2
30°	1128.6	1135.0	1135.0	1141.4	1147.8	1149.9	1149.9	1143.5
32.5°	1032.8	1041.2	1045.5	1043.4	1049.8	1054.0	1051.9	1051.9
35°	945.5	947.6	949.8	951.9	954.0	958.2	954.0	951.9
37.5°	851.8	858.1	853.9	858.1	862.4	860.2	858.1	858.1
40°	766.6	768.8	764.5	768.8	770.9	770.9	770.9	766.6
42.5°	681.4	685.6	681.4	685.6	685.6	685.6	685.6	683.5
45°	596.2	600.5	600.5	602.6	602.6	600.5	600.5	600.5
47.5°	517.5	521.8	517.5	521.8	523.9	519.6	519.6	519.6
50°	442.9	440.8	440.8	442.9	442.9	442.9	442.9	440.8
52.5°	366.2	368.4	368.4	368.4	370.5	368.4	370.5	370.5
55°	300.2	300.2	300.2	302.4	300.2	300.2	302.4	304.5
57.5°	240.6	238.5	236.4	236.4	238.5	236.4	236.4	236.4
60°	185.2	183.1	181.0	181.0	181.0	181.0	181.0	178.9
62.5°	138.4	138.4	138.4	140.5	140.5	140.5	140.5	142.6
65°	110.8	110.8	110.8	110.8	110.8	110.8	110.8	112.9
67.5°	89.4	89.4	89.4	91.6	91.6	91.6	91.6	91.6
70°	74.5	74.5	76.6	74.5	76.6	76.6	76.6	76.6
72.5°	51.1	51.1	51.1	51.1	51.1	49.0	51.1	49.0
75°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	19.1
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	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)