

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: P252385

Luminaire Tested: **LE_6B30D010 EC6B30509050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252385
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 EC6B30509050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.2 lumens
Efficiency: N/A
Efficacy: 104.0 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

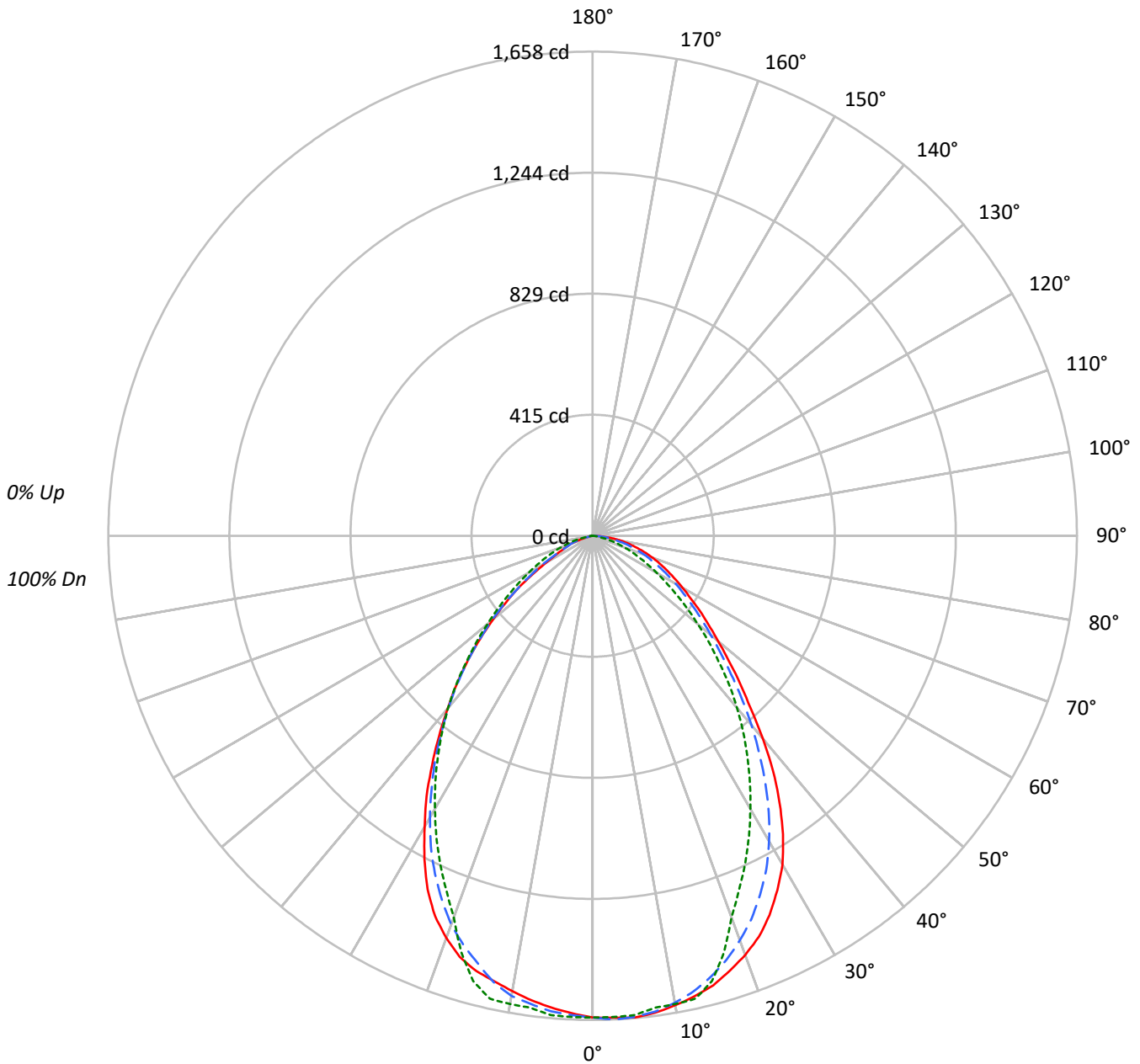
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	107614	107614	107614
5°	108451	107888	106211
10°	108142	107857	104876
15°	107655	106642	104177
20°	106044	96532	101725
25°	103162	88981	96230
30°	97964	81345	86664
35°	88891	73543	76267
40°	77169	65501	65680
45°	65821	56327	55737
50°	56960	47612	45014
55°	50934	39719	34851
60°	46399	32986	23487
65°	43317	27108	17521
70°	41278	22051	14707
75°	38869	15654	4840
80°	37007	8040	1578
85°	30541	4791	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	5.4
10°-20°	435.7	15.0
20°-30°	601.4	20.7
30°-40°	612.0	21.0
40°-50°	491.8	16.9
50°-60°	327.0	11.2
60°-70°	186.3	6.4
70°-80°	83.7	2.9
80°-90°	17.6	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°	1192.8	41.0
0°-40°	1804.8	62.0
0°-60°	2623.6	90.1
0°-90°	2911.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1650	1650	1650	1650	1650	
5°	1656	1654	1647	1634	1622	157
15°	1594	1564	1579	1517	1542	449
25°	1433	1356	1236	1277	1337	657
35°	1116	1030	923	940	958	694
45°	713	670	610	604	604	553
55°	448	418	349	311	306	402
65°	281	251	176	114	114	280
75°	154	128	62	26	19	165
85°	41	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°	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5
2.5°	1651.6	1660.2	1658.1	1656.0	1658.1	1656.0	1651.6	1651.6	1647.4	1647.4	1658.1
5°	1656.0	1660.2	1658.1	1656.0	1656.0	1658.1	1649.5	1649.5	1645.2	1643.1	1653.9
7.5°	1647.4	1653.9	1649.5	1649.5	1647.4	1649.5	1641.0	1641.0	1634.5	1632.4	1643.1
10°	1632.4	1641.0	1636.6	1636.6	1636.6	1632.4	1628.1	1626.0	1619.5	1617.4	1623.9
12.5°	1615.2	1621.8	1619.5	1615.2	1615.2	1615.2	1606.8	1604.5	1596.0	1591.8	1598.1
15°	1593.9	1598.1	1596.0	1593.9	1589.5	1589.5	1581.0	1576.8	1568.1	1559.6	1563.9
17.5°	1561.8	1568.1	1563.9	1561.8	1555.2	1555.2	1546.8	1542.4	1529.6	1521.0	1523.1
20°	1527.4	1529.6	1527.4	1523.1	1516.8	1514.6	1506.0	1497.5	1486.8	1476.0	1473.9
22.5°	1486.8	1488.9	1482.5	1478.1	1471.8	1469.6	1458.9	1452.5	1435.4	1422.5	1420.4
25°	1433.1	1435.4	1435.4	1424.6	1420.4	1416.0	1405.4	1394.6	1379.6	1362.5	1356.0
27.5°	1368.9	1375.4	1371.0	1360.4	1351.8	1349.6	1338.9	1330.4	1311.0	1296.1	1287.5
30°	1300.4	1298.2	1296.1	1289.6	1276.8	1274.6	1263.9	1253.2	1238.2	1219.0	1208.2
32.5°	1212.5	1212.5	1210.4	1204.0	1191.1	1186.8	1178.2	1165.4	1148.2	1133.2	1122.5
35°	1116.1	1118.2	1116.1	1103.2	1094.8	1090.4	1086.1	1071.1	1056.1	1039.0	1030.4
37.5°	1015.4	1009.0	1011.1	1000.4	989.8	994.0	981.1	974.8	957.6	944.8	936.1
40°	906.1	910.5	901.9	897.6	891.1	884.8	884.8	874.0	865.5	850.5	846.2
42.5°	799.0	805.5	803.4	799.0	790.5	792.6	781.9	777.6	766.9	760.5	754.1
45°	713.4	713.4	713.4	709.1	707.0	702.6	696.2	689.8	683.4	674.8	670.5
47.5°	629.9	629.9	632.0	627.6	623.4	621.2	617.0	617.0	606.2	597.8	593.4
50°	561.2	561.2	561.2	557.0	552.8	552.8	548.4	544.1	537.8	531.2	527.0
52.5°	499.1	499.1	499.1	494.9	492.8	490.6	488.4	486.2	477.8	473.5	469.1
55°	447.8	445.6	445.6	443.5	439.1	439.1	437.0	432.8	426.2	419.9	417.8
57.5°	396.4	398.5	396.4	396.4	392.0	392.0	387.8	385.6	379.1	374.9	370.6
60°	355.6	355.6	355.6	353.5	349.2	351.4	347.0	344.9	338.5	332.0	327.8
62.5°	314.9	317.0	317.0	314.9	310.6	310.6	308.5	306.4	299.9	293.5	287.1
65°	280.6	280.6	280.6	278.5	276.4	276.4	274.2	272.1	265.6	257.1	250.6
67.5°	248.5	246.4	246.4	246.4	244.2	242.1	239.9	237.8	231.4	224.9	216.4
70°	216.4	216.4	216.4	214.2	210.0	212.1	210.0	207.8	201.4	195.0	188.5
72.5°	186.4	186.4	184.2	182.1	182.1	180.0	180.0	177.8	171.4	162.8	156.4
75°	154.2	154.2	154.2	154.2	150.0	152.1	147.9	145.6	141.4	135.0	128.5
77.5°	126.4	126.4	126.4	124.2	122.1	122.1	120.0	117.9	111.4	107.1	98.5
80°	98.5	98.5	98.5	98.5	96.4	94.2	92.1	90.0	85.8	79.2	72.9
82.5°	72.9	72.9	70.8	70.8	70.8	68.5	66.4	64.2	60.0	55.8	51.4
85°	40.8	42.9	42.9	38.5	40.8	38.5	38.5	34.2	34.2	30.0	27.9
87.5°	15.0	12.9	12.9	12.9	12.9	12.9	12.9	10.8	10.8	10.8	8.6
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°	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5
2.5°	1649.5	1647.4	1656.0	1656.0	1643.1	1649.5	1651.6	1647.4	1647.4	1649.5	1643.1
5°	1645.2	1641.0	1649.5	1651.6	1638.9	1645.2	1647.4	1643.1	1645.2	1647.4	1638.9
7.5°	1630.2	1630.2	1636.6	1638.9	1626.0	1632.4	1632.4	1628.1	1630.2	1630.2	1623.9
10°	1615.2	1608.9	1615.2	1615.2	1604.5	1606.8	1611.0	1608.9	1617.4	1628.1	1628.1
12.5°	1587.4	1581.0	1591.8	1591.8	1585.2	1593.9	1604.5	1611.0	1619.5	1623.9	1611.0
15°	1553.1	1555.2	1574.5	1589.5	1583.1	1596.0	1606.8	1602.4	1591.8	1578.9	1559.6
17.5°	1508.1	1501.8	1518.9	1527.4	1518.9	1523.1	1531.8	1523.1	1506.0	1495.2	1469.6
20°	1456.8	1439.6	1439.6	1435.4	1420.4	1420.4	1418.1	1403.1	1396.8	1390.4	1379.6
22.5°	1398.9	1379.6	1373.1	1360.4	1347.5	1345.4	1338.9	1323.9	1315.4	1311.0	1298.2
25°	1332.5	1315.4	1304.6	1291.8	1272.5	1268.2	1261.8	1246.8	1242.5	1236.1	1225.4
27.5°	1263.9	1242.5	1227.5	1214.6	1197.5	1195.4	1182.5	1171.9	1163.2	1159.0	1150.4
30°	1184.6	1161.1	1150.4	1133.2	1120.4	1116.1	1105.4	1090.4	1084.0	1079.8	1073.2
32.5°	1096.9	1077.5	1066.9	1051.9	1034.8	1036.9	1024.0	1011.1	1006.9	1002.6	996.1
35°	1011.1	991.9	979.0	966.1	955.5	951.1	942.6	931.9	925.5	923.4	919.0
37.5°	916.9	901.9	891.1	878.4	869.8	865.5	861.2	850.5	846.2	846.2	837.6
40°	824.8	811.9	803.4	796.9	786.2	784.1	779.8	773.4	771.2	769.1	762.6
42.5°	741.2	724.1	717.6	713.4	707.0	702.6	700.5	696.2	694.1	692.0	685.5
45°	662.0	647.0	640.5	636.2	629.9	627.6	625.5	619.1	614.9	610.5	608.4
47.5°	584.9	574.1	572.0	561.2	557.0	552.8	548.4	544.1	542.0	539.9	531.2
50°	518.4	512.0	501.2	494.9	490.6	488.4	479.9	473.5	471.2	469.1	462.8
52.5°	458.5	449.9	443.5	432.8	430.6	426.2	422.0	413.5	409.1	407.0	400.6
55°	404.9	398.5	389.9	381.4	374.9	372.8	366.4	357.8	353.5	349.2	344.9
57.5°	359.9	349.2	340.6	332.0	327.8	321.4	314.9	310.6	304.2	297.8	291.4
60°	317.0	308.5	297.8	289.2	284.9	280.6	272.1	265.6	259.2	252.8	246.4
62.5°	276.4	267.8	257.1	248.5	244.2	239.9	231.4	224.9	218.5	212.1	203.5
65°	239.9	231.4	222.8	214.2	210.0	205.6	197.1	188.5	182.1	175.6	167.1
67.5°	210.0	199.2	190.6	182.1	177.8	173.5	165.0	158.5	150.0	143.5	135.0
70°	177.8	169.2	162.8	154.2	150.0	145.6	137.1	128.5	122.1	115.6	107.1
72.5°	150.0	139.2	132.9	124.2	120.0	117.9	109.2	102.9	96.4	87.9	81.4
75°	120.0	111.4	102.9	96.4	92.1	90.0	81.4	75.0	68.5	62.1	55.8
77.5°	92.1	85.8	77.1	70.8	66.4	64.2	55.8	49.2	42.9	38.5	32.1
80°	68.5	60.0	55.8	49.2	47.1	42.9	38.5	32.1	27.9	21.4	17.1
82.5°	47.1	40.8	36.4	32.1	30.0	27.9	23.6	19.2	15.0	12.9	10.8
85°	25.8	21.4	19.2	17.1	15.0	15.0	12.9	10.8	8.6	6.4	4.2
87.5°	8.6	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°	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5
2.5°	1647.4	1647.4	1647.4	1645.2	1645.2	1645.2	1643.1	1651.6	1643.1	1641.0	1647.4
5°	1645.2	1641.0	1641.0	1641.0	1641.0	1638.9	1636.6	1641.0	1634.5	1632.4	1632.4
7.5°	1632.4	1630.2	1630.2	1628.1	1626.0	1623.9	1621.8	1623.9	1617.4	1615.2	1615.2
10°	1634.5	1630.2	1630.2	1623.9	1619.5	1613.1	1606.8	1608.9	1600.2	1593.9	1593.9
12.5°	1608.9	1598.1	1591.8	1585.2	1581.0	1578.9	1570.2	1574.5	1566.0	1563.9	1563.9
15°	1551.0	1538.1	1527.4	1523.1	1523.1	1518.9	1512.4	1521.0	1516.8	1518.9	1529.6
17.5°	1461.0	1454.6	1448.1	1446.0	1448.1	1452.5	1456.8	1469.6	1469.6	1476.0	1486.8
20°	1381.8	1377.5	1381.8	1381.8	1383.9	1392.5	1401.0	1411.8	1416.0	1422.5	1437.5
22.5°	1304.6	1304.6	1308.9	1315.4	1313.2	1328.2	1330.4	1349.6	1349.6	1362.5	1375.4
25°	1229.6	1229.6	1234.0	1236.1	1240.4	1248.9	1257.5	1272.5	1276.8	1289.6	1300.4
27.5°	1156.9	1154.6	1154.6	1156.9	1161.1	1171.9	1176.1	1193.2	1199.6	1208.2	1219.0
30°	1075.4	1073.2	1077.5	1081.9	1079.8	1090.4	1096.9	1109.8	1114.0	1122.5	1131.1
32.5°	998.2	998.2	998.2	1002.6	1002.6	1011.1	1011.1	1026.1	1026.1	1032.6	1041.1
35°	919.0	919.0	921.1	923.4	925.5	927.6	929.8	938.2	940.5	942.6	946.9
37.5°	844.0	841.9	844.0	844.0	839.8	848.4	848.4	856.9	850.5	856.9	859.0
40°	766.9	766.9	764.8	764.8	764.8	769.1	764.8	771.2	766.9	771.2	769.1
42.5°	687.6	687.6	683.4	687.6	685.5	685.5	685.5	689.8	683.4	687.6	689.8
45°	608.4	606.2	606.2	604.1	604.1	604.1	606.2	606.2	604.1	608.4	608.4
47.5°	531.2	529.1	529.1	529.1	529.1	531.2	524.9	529.1	524.9	524.9	524.9
50°	464.9	462.8	460.6	458.5	456.2	456.2	454.1	454.1	449.9	447.8	445.6
52.5°	400.6	398.5	394.1	394.1	392.0	389.9	383.5	383.5	377.0	374.9	374.9
55°	342.8	336.4	334.2	329.9	329.9	325.6	321.4	317.0	310.6	306.4	306.4
57.5°	289.2	282.8	278.5	276.4	274.2	269.9	261.4	259.2	250.6	248.5	246.4
60°	242.1	235.6	229.2	224.9	222.8	216.4	207.8	203.5	199.2	192.8	186.4
62.5°	197.1	190.6	182.1	180.0	175.6	169.2	162.8	156.4	152.1	145.6	141.4
65°	158.5	152.1	145.6	141.4	137.1	130.6	124.2	117.9	113.5	111.4	109.2
67.5°	128.5	120.0	113.5	111.4	107.1	102.9	96.4	94.2	90.0	90.0	90.0
70°	100.6	94.2	87.9	85.8	83.5	79.2	75.0	75.0	75.0	75.0	75.0
72.5°	75.0	70.8	64.2	62.1	60.0	57.9	53.5	55.8	53.5	53.5	53.5
75°	47.1	42.9	38.5	36.4	34.2	32.1	30.0	27.9	25.8	23.6	23.6
77.5°	25.8	21.4	19.2	17.1	17.1	15.0	12.9	12.9	10.8	10.8	10.8
80°	15.0	12.9	10.8	8.6	8.6	6.4	6.4	6.4	6.4	4.2	4.2
82.5°	8.6	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: P252385

CATALOG NUMBER: LE_6B30D010 EC6B30509050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5	1649.5
2.5°	1636.6	1643.1	1636.6	1643.1	1643.1	1643.1	1643.1	1636.6
5°	1626.0	1630.2	1623.9	1628.1	1630.2	1628.1	1628.1	1621.8
7.5°	1606.8	1611.0	1604.5	1611.0	1613.1	1611.0	1608.9	1604.5
10°	1587.4	1589.5	1583.1	1587.4	1591.8	1591.8	1589.5	1583.1
12.5°	1557.4	1563.9	1557.4	1561.8	1566.0	1568.1	1568.1	1561.8
15°	1523.1	1533.9	1529.6	1536.0	1542.4	1544.6	1544.6	1542.4
17.5°	1488.9	1499.6	1493.1	1503.9	1510.2	1514.6	1516.8	1512.4
20°	1439.6	1452.5	1448.1	1456.8	1465.2	1471.8	1471.8	1465.2
22.5°	1375.4	1392.5	1390.4	1396.8	1407.5	1409.6	1413.9	1409.6
25°	1304.6	1317.5	1315.4	1321.8	1334.6	1334.6	1336.8	1336.8
27.5°	1223.2	1236.1	1234.0	1238.2	1246.8	1248.9	1251.1	1246.8
30°	1135.4	1141.9	1141.9	1148.2	1154.6	1156.9	1156.9	1150.4
32.5°	1039.0	1047.6	1051.9	1049.8	1056.1	1060.4	1058.2	1058.2
35°	951.1	953.2	955.5	957.6	959.8	964.0	959.8	957.6
37.5°	856.9	863.4	859.0	863.4	867.6	865.5	863.4	863.4
40°	771.2	773.4	769.1	773.4	775.5	775.5	775.5	771.2
42.5°	685.5	689.8	685.5	689.8	689.8	689.8	689.8	687.6
45°	599.9	604.1	604.1	606.2	606.2	604.1	604.1	604.1
47.5°	520.6	524.9	520.6	524.9	527.0	522.8	522.8	522.8
50°	445.6	443.5	443.5	445.6	445.6	445.6	445.6	443.5
52.5°	368.5	370.6	370.6	370.6	372.8	370.6	372.8	372.8
55°	302.0	302.0	302.0	304.2	302.0	302.0	304.2	306.4
57.5°	242.1	239.9	237.8	237.8	239.9	237.8	237.8	237.8
60°	186.4	184.2	182.1	182.1	182.1	182.1	182.1	180.0
62.5°	139.2	139.2	139.2	141.4	141.4	141.4	141.4	143.5
65°	111.4	111.4	111.4	111.4	111.4	111.4	111.4	113.5
67.5°	90.0	90.0	90.0	92.1	92.1	92.1	92.1	92.1
70°	75.0	75.0	77.1	75.0	77.1	77.1	77.1	77.1
72.5°	51.4	51.4	51.4	51.4	51.4	49.2	51.4	49.2
75°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	19.2
77.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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)