

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: P252595

Luminaire Tested: **LE_6B30D010 EC6B30509730 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509730 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2748.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

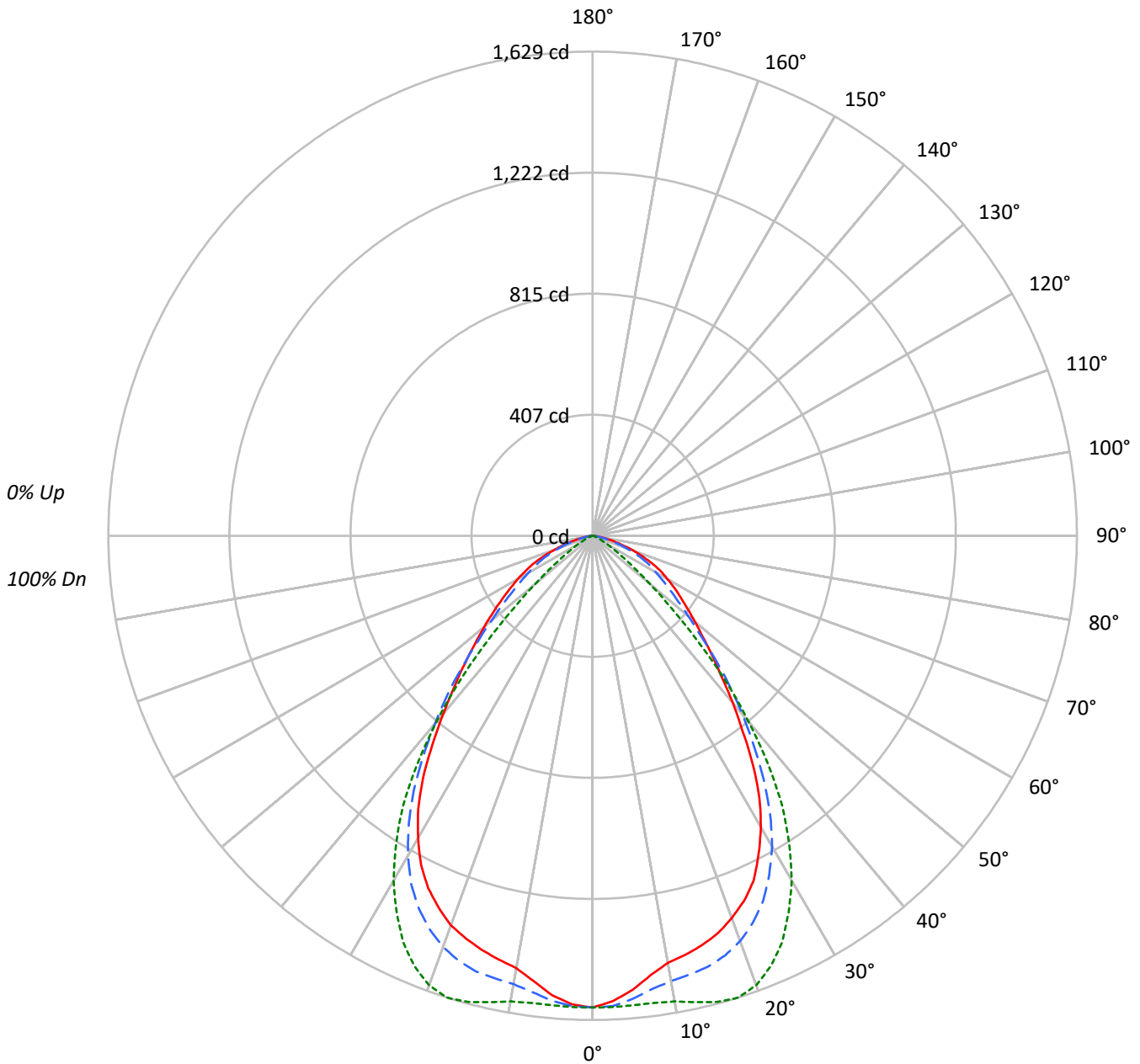
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252595

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBDW1LI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	103537	103537	103537
5°	100448	103808	101647
10°	96628	105373	97840
15°	96281	109661	97396
20°	95019	111709	96810
25°	92184	108561	94164
30°	85277	100886	88456
35°	74818	88692	79198
40°	62341	69529	66412
45°	52480	45874	56023
50°	45430	25131	48221
55°	41107	13353	42153
60°	37827	6942	37827
65°	34271	3690	33422
70°	27659	2098	25542
75°	18956	1386	17595
80°	12398	714	11046
85°	8234	1422	6812



TEST NUMBER: P252595

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	5.4
10°-20°	427.9	15.6
20°-30°	632.2	23.0
30°-40°	638.6	23.2
40°-50°	440.2	16.0
50°-60°	252.8	9.2
60°-70°	147.1	5.4
70°-80°	53.7	2.0
80°-90°	8.2	0.3
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°	1208.1	44.0
0°-40°	1846.8	67.2
0°-60°	2539.7	92.4
0°-90°	2748.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1587	1587	1587	1587	1587	
5°	1534	1563	1585	1570	1552	144
15°	1426	1501	1624	1517	1442	402
25°	1281	1356	1508	1383	1308	583
35°	939	1004	1114	1049	994	583
45°	569	576	497	613	607	442
55°	361	317	117	330	371	325
65°	222	187	24	185	216	217
75°	75	60	6	59	70	85
85°	11	6	2	7	9	14
90°	0	0	0	0	0	



TEST NUMBER: P252595

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1566.8	1568.6	1570.5	1568.6	1570.5	1577.9	1572.4	1576.0	1576.0	1577.9	1583.4
5°	1533.8	1533.8	1537.5	1535.6	1541.1	1548.5	1543.0	1548.5	1550.2	1554.0	1563.1
7.5°	1491.6	1491.6	1493.4	1493.4	1500.8	1508.1	1504.4	1511.8	1519.1	1526.5	1537.5
10°	1458.6	1462.2	1462.2	1464.1	1471.4	1480.6	1478.8	1487.9	1495.2	1506.2	1521.0
12.5°	1443.9	1445.8	1445.8	1449.4	1456.8	1465.9	1464.1	1473.2	1484.2	1497.1	1511.8
15°	1425.5	1429.2	1427.4	1431.0	1438.4	1447.5	1445.8	1454.9	1467.8	1480.6	1500.8
17.5°	1401.8	1403.5	1405.4	1405.4	1412.8	1420.0	1420.0	1429.2	1443.9	1458.6	1480.6
20°	1368.6	1372.4	1372.4	1374.1	1379.6	1390.6	1388.9	1398.0	1412.8	1427.4	1451.2
22.5°	1330.1	1332.0	1332.0	1333.8	1343.0	1348.5	1350.4	1357.6	1370.5	1387.0	1409.0
25°	1280.6	1282.4	1280.6	1286.1	1289.8	1300.8	1297.1	1306.2	1321.0	1333.8	1355.9
27.5°	1209.0	1212.8	1212.8	1214.5	1223.8	1232.9	1232.9	1242.1	1254.9	1264.1	1286.1
30°	1132.0	1137.5	1132.0	1141.1	1144.9	1152.1	1157.6	1163.1	1174.2	1187.0	1207.2
32.5°	1043.9	1042.1	1043.9	1047.6	1058.6	1064.1	1067.8	1073.2	1084.2	1095.2	1111.8
35°	939.4	943.0	944.9	952.2	952.2	961.4	963.2	966.9	983.4	990.8	1003.6
37.5°	829.2	833.0	834.8	838.5	845.8	849.5	855.0	860.5	871.5	884.2	891.6
40°	732.0	732.0	733.9	737.5	743.0	744.9	750.4	757.8	765.0	776.1	783.4
42.5°	640.2	642.1	640.2	644.0	649.5	656.8	655.0	664.1	666.0	673.4	678.9
45°	568.8	568.8	565.1	568.8	568.8	576.1	574.2	577.9	576.1	579.8	576.1
47.5°	500.9	502.8	500.9	502.8	502.8	502.8	504.5	500.9	502.8	497.2	486.2
50°	447.6	449.5	445.9	447.6	445.9	444.0	445.9	440.4	438.5	431.1	420.1
52.5°	401.8	400.0	398.1	398.1	398.1	396.2	394.5	389.0	383.5	376.1	363.2
55°	361.4	359.6	357.8	357.8	354.1	352.2	352.2	346.8	341.2	332.1	317.4
57.5°	324.8	322.9	321.1	321.1	319.2	315.6	315.6	310.0	302.8	291.8	278.9
60°	289.9	289.9	289.9	288.0	288.0	284.4	284.4	278.9	271.5	260.5	245.9
62.5°	258.8	256.9	256.9	256.9	256.9	255.0	253.1	249.5	242.1	231.1	218.4
65°	222.0	222.0	222.0	222.0	220.1	220.1	220.1	214.6	211.0	200.0	187.1
67.5°	181.6	181.6	181.6	181.6	179.8	181.6	181.6	178.0	174.2	163.2	152.2
70°	145.0	143.1	141.2	143.1	141.2	141.2	143.1	139.4	137.6	128.4	117.4
72.5°	106.4	108.2	106.4	106.4	106.4	104.6	106.4	104.6	100.9	93.6	86.2
75°	75.2	77.0	77.0	75.2	75.2	75.2	73.4	73.4	69.8	64.2	60.5
77.5°	51.4	51.4	51.4	51.4	49.5	49.5	49.5	47.8	45.9	42.2	38.5
80°	33.0	33.0	33.0	33.0	31.2	31.2	31.2	29.4	29.4	25.6	22.0
82.5°	20.1	20.1	20.1	20.1	20.1	20.1	18.4	18.4	16.5	14.6	12.9
85°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	9.1	9.1	7.4	5.5
87.5°	3.6	3.6	5.5	5.5	5.5	5.5	5.5	5.5	3.6	3.6	3.6
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: P252595

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1579.6	1581.5	1581.5	1581.5	1587.0	1588.9	1583.4	1577.9	1588.9	1587.0	1590.6
5°	1561.2	1566.8	1570.5	1572.4	1577.9	1581.5	1576.0	1574.1	1583.4	1585.1	1587.0
7.5°	1539.2	1548.5	1557.6	1561.2	1568.6	1572.4	1570.5	1570.5	1581.5	1585.1	1585.1
10°	1524.6	1537.5	1548.5	1557.6	1566.8	1572.4	1572.4	1574.1	1587.0	1590.6	1594.4
12.5°	1521.0	1537.5	1552.1	1565.0	1572.4	1581.5	1583.4	1588.9	1601.6	1607.1	1607.1
15°	1511.8	1533.8	1552.1	1568.6	1579.6	1590.6	1594.4	1605.4	1620.0	1623.6	1627.4
17.5°	1495.2	1517.2	1539.2	1559.5	1574.1	1583.4	1594.4	1605.4	1623.6	1629.2	1631.0
20°	1465.9	1491.6	1513.6	1533.8	1548.5	1561.2	1572.4	1585.1	1601.6	1609.0	1610.9
22.5°	1421.9	1447.5	1469.6	1491.6	1506.2	1517.2	1528.2	1543.0	1559.5	1566.8	1566.8
25°	1368.6	1392.5	1416.4	1432.9	1447.5	1460.4	1465.9	1482.4	1498.9	1508.1	1508.1
27.5°	1300.8	1322.8	1344.9	1363.1	1372.4	1383.4	1392.5	1407.2	1420.0	1427.4	1434.8
30°	1214.5	1236.6	1256.8	1275.1	1286.1	1297.1	1306.2	1317.2	1330.1	1339.2	1341.1
32.5°	1121.0	1139.4	1159.5	1177.9	1188.9	1192.5	1201.8	1212.8	1223.8	1231.1	1232.9
35°	1018.2	1031.1	1043.9	1060.5	1071.5	1071.5	1080.6	1088.0	1097.1	1113.6	1110.0
37.5°	897.1	915.5	924.6	930.1	937.5	944.9	946.8	955.9	966.9	970.5	976.0
40°	783.4	788.9	794.4	794.4	801.8	801.8	801.8	803.6	814.6	816.4	823.8
42.5°	669.6	669.6	664.1	658.6	660.5	658.6	649.5	649.5	655.0	662.4	662.4
45°	563.2	550.4	533.9	521.0	511.9	508.2	497.2	497.2	495.4	497.2	504.5
47.5°	473.4	451.4	423.8	398.1	389.0	381.6	365.1	357.8	354.1	355.9	359.6
50°	398.1	374.2	343.1	311.9	295.4	286.2	266.0	253.1	251.4	247.6	255.0
52.5°	343.1	313.8	280.8	244.0	227.5	212.9	190.8	179.8	172.5	172.5	174.2
55°	295.4	264.2	227.5	190.8	174.2	163.2	141.2	126.6	119.2	117.4	122.9
57.5°	255.0	225.6	189.0	152.2	135.8	122.9	100.9	88.1	82.5	78.9	80.8
60°	223.9	194.5	157.8	122.9	108.2	93.6	75.2	60.5	53.2	53.2	55.0
62.5°	194.5	167.0	133.9	100.9	88.1	75.2	55.0	42.2	36.8	34.9	36.8
65°	165.1	139.4	111.9	84.4	71.5	60.5	44.0	33.0	25.6	23.9	25.6
67.5°	133.9	113.8	89.9	67.9	56.9	47.8	33.0	23.9	18.4	16.5	18.4
70°	104.6	86.2	67.9	49.5	42.2	34.9	23.9	18.4	12.9	11.0	12.9
72.5°	75.2	62.4	47.8	34.9	29.4	23.9	16.5	12.9	9.1	7.4	9.1
75°	51.4	42.2	31.2	22.0	18.4	16.5	11.0	7.4	5.5	5.5	5.5
77.5°	33.0	25.6	20.1	14.6	11.0	9.1	5.5	3.6	3.6	3.6	3.6
80°	18.4	14.6	11.0	7.4	5.5	5.5	3.6	3.6	1.9	1.9	1.9
82.5°	11.0	7.4	5.5	3.6	3.6	1.9	1.9	1.9	1.9	1.9	1.9
85°	5.5	3.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P252595

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1583.4	1585.1	1579.6	1587.0	1581.5	1588.9	1588.9	1581.5	1583.4	1579.6	1587.0
5°	1579.6	1579.6	1576.0	1581.5	1574.1	1581.5	1579.6	1566.8	1570.5	1563.1	1570.5
7.5°	1579.6	1576.0	1570.5	1576.0	1566.8	1572.4	1565.0	1552.1	1548.5	1539.2	1539.2
10°	1585.1	1579.6	1572.4	1574.1	1565.0	1566.8	1555.8	1537.5	1532.0	1521.0	1517.2
12.5°	1598.0	1592.5	1581.5	1585.1	1572.4	1572.4	1557.6	1535.6	1524.6	1509.9	1506.2
15°	1616.4	1607.1	1594.4	1596.1	1583.4	1576.0	1557.6	1532.0	1517.2	1497.1	1491.6
17.5°	1620.0	1610.9	1594.4	1594.4	1577.9	1568.6	1546.6	1517.2	1498.9	1478.8	1467.8
20°	1599.9	1590.6	1572.4	1570.5	1555.8	1543.0	1519.1	1489.8	1471.4	1449.4	1440.2
22.5°	1557.6	1546.6	1530.1	1528.2	1513.6	1506.2	1480.6	1451.2	1432.9	1410.9	1403.5
25°	1495.2	1489.8	1473.2	1471.4	1458.6	1449.4	1427.4	1399.9	1383.4	1361.4	1354.0
27.5°	1421.9	1416.4	1399.9	1399.9	1385.1	1379.6	1359.5	1333.8	1321.0	1300.8	1291.6
30°	1333.8	1326.5	1317.2	1315.5	1302.6	1297.1	1278.8	1254.9	1242.1	1225.5	1221.9
32.5°	1229.2	1223.8	1218.2	1216.4	1203.5	1198.0	1185.2	1161.4	1150.4	1135.6	1130.1
35°	1108.1	1104.5	1099.0	1097.1	1091.6	1086.1	1073.2	1054.9	1049.4	1038.4	1032.9
37.5°	968.8	972.4	968.8	968.8	963.2	965.0	954.0	943.0	937.5	930.1	926.5
40°	818.2	825.6	831.1	831.1	829.2	836.6	834.8	825.6	823.8	820.1	818.2
42.5°	666.0	669.6	680.6	688.0	686.1	704.5	706.4	713.6	719.2	715.5	717.4
45°	506.4	517.4	532.0	539.4	548.6	572.4	585.2	599.9	612.8	620.1	618.2
47.5°	365.1	378.0	394.5	405.5	422.0	451.4	484.4	502.8	521.0	530.2	539.4
50°	264.2	277.0	297.2	313.8	324.8	365.1	400.0	423.8	444.0	456.9	466.0
52.5°	185.2	200.0	222.0	236.6	253.1	291.8	332.1	359.6	381.6	398.1	407.2
55°	128.4	145.0	165.1	179.8	198.1	238.5	277.0	306.4	330.2	344.9	355.9
57.5°	89.9	104.6	124.8	137.6	156.0	194.5	233.0	262.4	286.2	300.9	313.8
60°	60.5	75.2	95.4	108.2	122.9	161.5	196.2	227.5	249.5	264.2	277.0
62.5°	42.2	55.0	75.2	88.1	100.9	133.9	167.0	194.5	216.5	233.0	244.0
65°	33.0	44.0	60.5	71.5	84.4	111.9	139.4	163.2	185.2	201.9	209.1
67.5°	23.9	34.9	47.8	56.9	66.0	89.9	113.8	132.1	152.2	165.1	174.2
70°	16.5	23.9	34.9	42.2	49.5	67.9	86.2	102.8	117.4	126.6	133.9
72.5°	12.9	16.5	23.9	29.4	34.9	47.8	62.4	75.2	86.2	93.6	100.9
75°	7.4	11.0	16.5	20.1	23.9	33.0	42.2	51.4	58.8	64.2	67.9
77.5°	3.6	5.5	9.1	11.0	14.6	20.1	27.5	33.0	38.5	42.2	45.9
80°	3.6	3.6	5.5	5.5	7.4	11.0	14.6	18.4	22.0	25.6	27.5
82.5°	1.9	1.9	3.6	3.6	3.6	5.5	7.4	11.0	12.9	14.6	16.5
85°	1.9	1.9	1.9	1.9	1.9	3.6	3.6	5.5	7.4	9.1	9.1
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	3.6	3.6	3.6	5.5
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: P252595

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1581.5	1585.1	1583.4	1587.0	1581.5	1579.6	1583.4	1577.9
5°	1561.2	1563.1	1561.2	1561.2	1557.6	1554.0	1557.6	1552.1
7.5°	1530.1	1530.1	1524.6	1524.6	1517.2	1513.6	1513.6	1511.8
10°	1504.4	1498.9	1493.4	1495.2	1484.2	1480.6	1478.8	1476.9
12.5°	1491.6	1487.9	1478.8	1478.8	1467.8	1464.1	1462.2	1460.4
15°	1476.9	1469.6	1462.2	1460.4	1451.2	1447.5	1445.8	1442.0
17.5°	1451.2	1445.8	1436.5	1436.5	1427.4	1425.5	1421.9	1420.0
20°	1423.8	1416.4	1409.0	1409.0	1398.0	1398.0	1392.5	1394.4
22.5°	1385.1	1379.6	1372.4	1372.4	1363.1	1361.4	1355.9	1354.0
25°	1339.2	1332.0	1326.5	1324.6	1317.2	1313.6	1311.8	1308.1
27.5°	1278.8	1273.2	1267.8	1264.1	1254.9	1253.1	1247.6	1249.4
30°	1203.5	1199.9	1198.0	1194.4	1183.4	1179.8	1179.8	1174.2
32.5°	1121.0	1115.5	1111.8	1106.2	1097.1	1095.2	1089.8	1091.6
35°	1020.1	1012.8	1007.2	1009.1	998.0	996.2	992.5	994.4
37.5°	915.5	908.1	900.9	899.0	889.9	889.9	884.2	884.2
40°	807.2	799.9	796.2	796.2	785.2	787.1	781.6	779.8
42.5°	710.0	702.6	700.9	699.0	693.5	691.6	686.1	688.0
45°	618.2	616.5	616.5	612.8	607.2	605.5	607.2	607.2
47.5°	537.5	539.4	537.5	537.5	533.9	537.5	533.9	535.8
50°	469.6	473.4	473.4	473.4	471.5	473.4	473.4	475.1
52.5°	412.8	418.2	416.5	418.2	416.5	420.1	418.2	420.1
55°	363.2	366.9	368.8	370.6	370.6	370.6	370.6	370.6
57.5°	317.4	322.9	324.8	326.6	326.6	330.2	326.6	326.6
60°	280.8	286.2	288.0	289.9	289.9	291.8	288.0	289.9
62.5°	247.6	253.1	253.1	255.0	255.0	255.0	251.4	253.1
65°	214.6	216.5	218.4	218.4	216.5	216.5	214.6	216.5
67.5°	178.0	179.8	178.0	178.0	176.1	176.1	172.5	174.2
70°	137.6	137.6	139.4	137.6	135.8	137.6	135.8	133.9
72.5°	102.8	102.8	102.8	100.9	100.9	99.1	100.9	100.9
75°	69.8	69.8	71.5	71.5	71.5	71.5	69.8	69.8
77.5°	45.9	45.9	45.9	45.9	47.8	45.9	45.9	45.9
80°	29.4	29.4	31.2	31.2	29.4	29.4	29.4	29.4
82.5°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
85°	11.0	11.0	11.0	11.0	9.1	9.1	9.1	9.1
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	3.6	3.6
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)