

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: P252375

Luminaire Tested: **LE_6B30D010 EC6B30508027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252375
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 EC6B30508027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3195.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

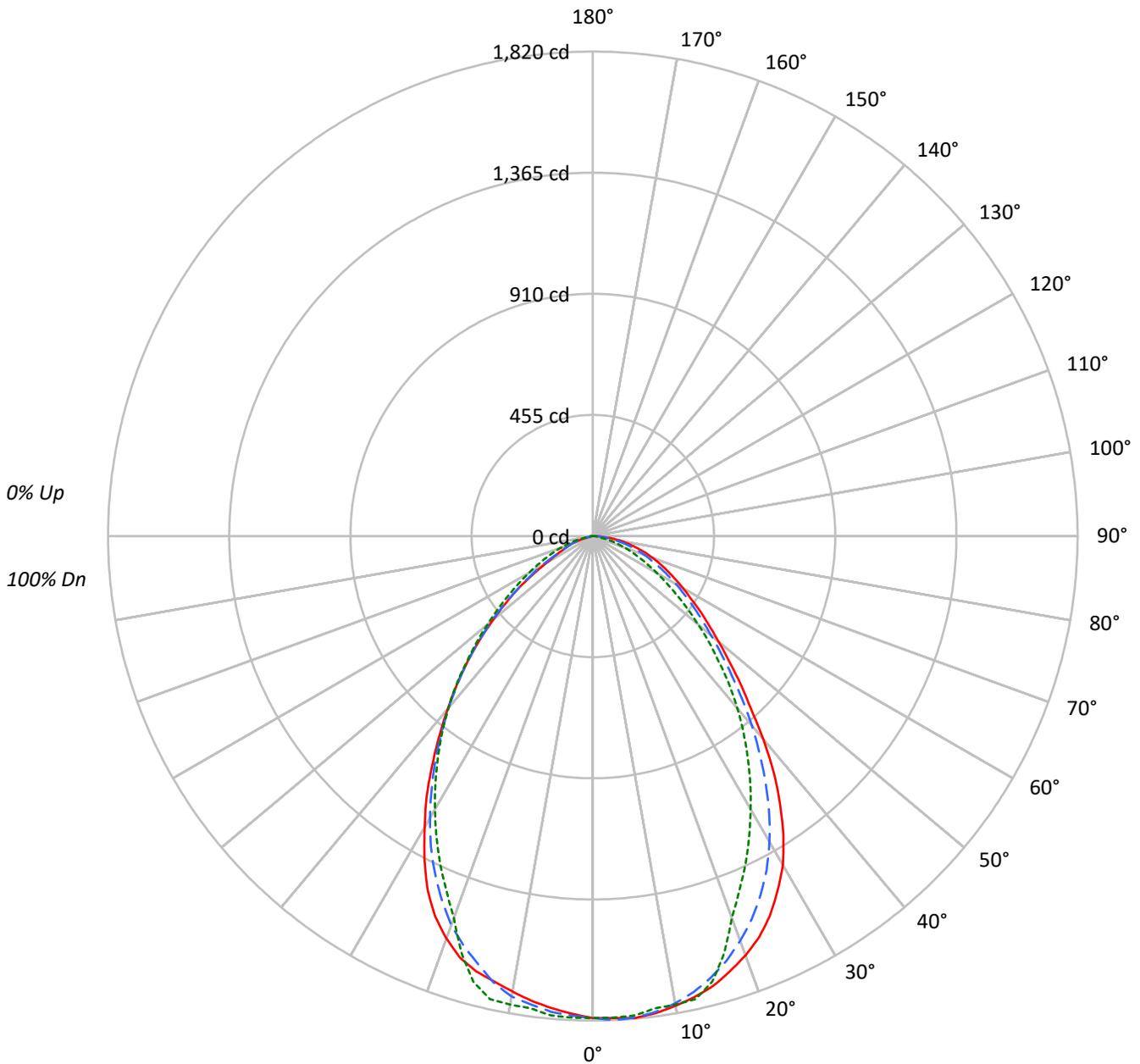
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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								
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°	118112	118112	118112
5°	119021	118406	116559
10°	118682	118370	115098
15°	118138	117037	114335
20°	116375	105940	111647
25°	113225	97648	105602
30°	107508	89263	95108
35°	97556	80695	83698
40°	84697	71880	72084
45°	72234	61817	61171
50°	62522	52260	49388
55°	55894	43587	38241
60°	50914	36195	25770
65°	47547	29763	19235
70°	45303	24225	16138
75°	42650	17166	5319
80°	40614	8829	1803
85°	33385	5240	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	5.4
10°-20°	478.1	15.0
20°-30°	660.0	20.7
30°-40°	671.6	21.0
40°-50°	539.7	16.9
50°-60°	358.9	11.2
60°-70°	204.5	6.4
70°-80°	91.9	2.9
80°-90°	19.4	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°	1309.1	41.0
0°-40°	1980.7	62.0
0°-60°	2879.3	90.1
0°-90°	3195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3195.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1810	1810	1810	1810	1810	
5°	1817	1815	1808	1794	1780	173
15°	1749	1716	1733	1664	1693	492
25°	1573	1488	1356	1401	1467	721
35°	1225	1131	1013	1032	1051	761
45°	783	736	670	663	663	607
55°	491	458	383	341	336	442
65°	308	275	193	125	125	307
75°	169	141	68	28	21	181
85°	45	31	7	2	0	53
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°	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4
2.5°	1812.6	1822.1	1819.8	1817.4	1819.8	1817.4	1812.6	1812.6	1808.0	1808.0	1819.8
5°	1817.4	1822.1	1819.8	1817.4	1817.4	1819.8	1810.4	1810.4	1805.6	1803.2	1815.0
7.5°	1808.0	1815.0	1810.4	1810.4	1808.0	1810.4	1800.9	1800.9	1793.9	1791.5	1803.2
10°	1791.5	1800.9	1796.2	1796.2	1796.2	1791.5	1786.8	1784.5	1777.4	1775.0	1782.1
12.5°	1772.8	1779.8	1777.4	1772.8	1772.8	1772.8	1763.2	1761.0	1751.5	1746.9	1753.9
15°	1749.1	1753.9	1751.5	1749.1	1744.5	1744.5	1735.1	1730.4	1721.0	1711.6	1716.2
17.5°	1713.9	1721.0	1716.2	1713.9	1706.9	1706.9	1697.5	1692.8	1678.6	1669.2	1671.6
20°	1676.2	1678.6	1676.2	1671.6	1664.5	1662.2	1652.8	1643.4	1631.6	1619.9	1617.5
22.5°	1631.6	1634.0	1626.9	1622.2	1615.1	1612.9	1601.1	1594.0	1575.2	1561.1	1558.8
25°	1572.9	1575.2	1575.2	1563.5	1558.8	1554.0	1542.2	1530.5	1514.1	1495.2	1488.2
27.5°	1502.4	1509.4	1504.6	1492.9	1483.5	1481.1	1469.4	1460.0	1438.9	1422.4	1413.0
30°	1427.1	1424.8	1422.4	1415.4	1401.2	1398.9	1387.1	1375.4	1358.9	1337.8	1326.0
32.5°	1330.8	1330.8	1328.4	1321.2	1307.2	1302.5	1293.1	1279.0	1260.1	1243.8	1232.0
35°	1224.9	1227.2	1224.9	1210.8	1201.4	1196.8	1192.0	1175.5	1159.1	1140.2	1130.9
37.5°	1114.4	1107.4	1109.8	1098.0	1086.2	1090.9	1076.8	1069.8	1050.9	1036.9	1027.4
40°	994.5	999.2	989.8	985.1	978.0	971.0	971.0	959.2	949.9	933.4	928.6
42.5°	877.0	884.0	881.6	877.0	867.5	869.9	858.1	853.4	841.6	834.6	827.6
45°	782.9	782.9	782.9	778.2	775.9	771.1	764.1	757.0	750.0	740.6	735.9
47.5°	691.2	691.2	693.5	688.9	684.1	681.8	677.1	677.1	665.4	656.0	651.2
50°	616.0	616.0	616.0	611.2	606.6	606.6	601.9	597.1	590.1	583.0	578.4
52.5°	547.8	547.8	547.8	543.1	540.8	538.4	536.0	533.8	524.2	519.6	514.9
55°	491.4	489.0	489.0	486.6	482.0	482.0	479.6	474.9	467.9	460.8	458.5
57.5°	435.0	437.2	435.0	435.0	430.2	430.2	425.5	423.2	416.1	411.4	406.8
60°	390.2	390.2	390.2	387.9	383.2	385.6	380.9	378.5	371.5	364.4	359.8
62.5°	345.6	348.0	348.0	345.6	340.9	340.9	338.5	336.2	329.1	322.1	315.0
65°	308.0	308.0	308.0	305.6	303.2	303.2	300.9	298.6	291.5	282.1	275.1
67.5°	272.8	270.4	270.4	270.4	268.0	265.6	263.4	261.0	253.9	246.9	237.5
70°	237.5	237.5	237.5	235.1	230.4	232.8	230.4	228.0	221.0	214.0	206.9
72.5°	204.5	204.5	202.2	199.9	199.9	197.5	197.5	195.1	188.1	178.6	171.6
75°	169.2	169.2	169.2	169.2	164.6	166.9	162.2	159.9	155.1	148.1	141.1
77.5°	138.8	138.8	138.8	136.4	134.0	134.0	131.6	129.2	122.2	117.5	108.1
80°	108.1	108.1	108.1	108.1	105.8	103.5	101.1	98.8	94.0	87.0	79.9
82.5°	79.9	79.9	77.6	77.6	77.6	75.2	72.9	70.5	65.9	61.1	56.4
85°	44.6	47.0	47.0	42.4	44.6	42.4	42.4	37.6	37.6	32.9	30.6
87.5°	16.5	14.1	14.1	14.1	14.1	14.1	14.1	11.8	11.8	11.8	9.4
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°	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4
2.5°	1810.4	1808.0	1817.4	1817.4	1803.2	1810.4	1812.6	1808.0	1808.0	1810.4	1803.2
5°	1805.6	1800.9	1810.4	1812.6	1798.5	1805.6	1808.0	1803.2	1805.6	1808.0	1798.5
7.5°	1789.1	1789.1	1796.2	1798.5	1784.5	1791.5	1791.5	1786.8	1789.1	1789.1	1782.1
10°	1772.8	1765.6	1772.8	1772.8	1761.0	1763.2	1768.0	1765.6	1775.0	1786.8	1786.8
12.5°	1742.1	1735.1	1746.9	1746.9	1739.8	1749.1	1761.0	1768.0	1777.4	1782.1	1768.0
15°	1704.5	1706.9	1728.0	1744.5	1737.4	1751.5	1763.2	1758.6	1746.9	1732.8	1711.6
17.5°	1655.1	1648.1	1666.9	1676.2	1666.9	1671.6	1681.0	1671.6	1652.8	1641.0	1612.9
20°	1598.8	1579.9	1579.9	1575.2	1558.8	1558.8	1556.4	1540.0	1532.9	1525.9	1514.1
22.5°	1535.2	1514.1	1507.0	1492.9	1478.9	1476.5	1469.4	1453.0	1443.5	1438.9	1424.8
25°	1462.4	1443.5	1431.8	1417.6	1396.5	1391.9	1384.8	1368.4	1363.6	1356.5	1344.8
27.5°	1387.1	1363.6	1347.1	1333.0	1314.2	1311.9	1297.8	1286.0	1276.6	1271.9	1262.5
30°	1300.1	1274.2	1262.5	1243.8	1229.6	1224.9	1213.1	1196.8	1189.6	1184.9	1177.9
32.5°	1203.8	1182.6	1170.9	1154.4	1135.5	1137.9	1123.8	1109.8	1105.0	1100.2	1093.2
35°	1109.8	1088.5	1074.4	1060.4	1048.6	1043.9	1034.5	1022.8	1015.6	1013.2	1008.6
37.5°	1006.2	989.8	978.0	963.9	954.5	949.9	945.1	933.4	928.6	928.6	919.2
40°	905.1	891.0	881.6	874.6	862.9	860.5	855.8	848.8	846.4	844.0	837.0
42.5°	813.5	794.6	787.6	782.9	775.9	771.1	768.8	764.1	761.8	759.4	752.4
45°	726.5	710.0	703.0	698.2	691.2	688.9	686.5	679.5	674.8	670.0	667.8
47.5°	641.9	630.1	627.8	616.0	611.2	606.6	601.9	597.1	594.9	592.5	583.0
50°	569.0	561.9	550.1	543.1	538.4	536.0	526.6	519.6	517.2	514.9	507.9
52.5°	503.1	493.8	486.6	474.9	472.5	467.9	463.1	453.8	449.0	446.8	439.6
55°	444.4	437.2	427.9	418.5	411.4	409.1	402.0	392.6	387.9	383.2	378.5
57.5°	395.0	383.2	373.9	364.4	359.8	352.6	345.6	340.9	333.9	326.8	319.8
60°	348.0	338.5	326.8	317.4	312.8	308.0	298.6	291.5	284.5	277.4	270.4
62.5°	303.2	293.9	282.1	272.8	268.0	263.4	253.9	246.9	239.8	232.8	223.4
65°	263.4	253.9	244.5	235.1	230.4	225.8	216.2	206.9	199.9	192.8	183.4
67.5°	230.4	218.6	209.2	199.9	195.1	190.4	181.0	174.0	164.6	157.5	148.1
70°	195.1	185.8	178.6	169.2	164.6	159.9	150.5	141.1	134.0	127.0	117.5
72.5°	164.6	152.9	145.8	136.4	131.6	129.2	119.9	112.9	105.8	96.4	89.4
75°	131.6	122.2	112.9	105.8	101.1	98.8	89.4	82.2	75.2	68.1	61.1
77.5°	101.1	94.0	84.6	77.6	72.9	70.5	61.1	54.1	47.0	42.4	35.2
80°	75.2	65.9	61.1	54.1	51.8	47.0	42.4	35.2	30.6	23.5	18.8
82.5°	51.8	44.6	40.0	35.2	32.9	30.6	25.9	21.1	16.5	14.1	11.8
85°	28.2	23.5	21.1	18.8	16.5	16.5	14.1	11.8	9.4	7.0	4.8
87.5°	9.4	7.0	7.0	7.0	7.0	4.8	4.8	4.8	2.4	2.4	2.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4
2.5°	1808.0	1808.0	1808.0	1805.6	1805.6	1805.6	1803.2	1812.6	1803.2	1800.9	1808.0
5°	1805.6	1800.9	1800.9	1800.9	1800.9	1798.5	1796.2	1800.9	1793.9	1791.5	1791.5
7.5°	1791.5	1789.1	1789.1	1786.8	1784.5	1782.1	1779.8	1782.1	1775.0	1772.8	1772.8
10°	1793.9	1789.1	1789.1	1782.1	1777.4	1770.4	1763.2	1765.6	1756.2	1749.1	1749.1
12.5°	1765.6	1753.9	1746.9	1739.8	1735.1	1732.8	1723.4	1728.0	1718.6	1716.2	1716.2
15°	1702.1	1688.0	1676.2	1671.6	1671.6	1666.9	1659.9	1669.2	1664.5	1666.9	1678.6
17.5°	1603.4	1596.4	1589.4	1587.0	1589.4	1594.0	1598.8	1612.9	1612.9	1619.9	1631.6
20°	1516.4	1511.8	1516.4	1516.4	1518.8	1528.1	1537.6	1549.4	1554.0	1561.1	1577.5
22.5°	1431.8	1431.8	1436.5	1443.5	1441.2	1457.6	1460.0	1481.1	1481.1	1495.2	1509.4
25°	1349.5	1349.5	1354.2	1356.5	1361.2	1370.6	1380.1	1396.5	1401.2	1415.4	1427.1
27.5°	1269.6	1267.2	1267.2	1269.6	1274.2	1286.0	1290.8	1309.5	1316.6	1326.0	1337.8
30°	1180.2	1177.9	1182.6	1187.2	1184.9	1196.8	1203.8	1217.9	1222.5	1232.0	1241.4
32.5°	1095.6	1095.6	1095.6	1100.2	1100.2	1109.8	1109.8	1126.1	1126.1	1133.2	1142.6
35°	1008.6	1008.6	1011.0	1013.2	1015.6	1018.0	1020.4	1029.8	1032.1	1034.5	1039.1
37.5°	926.4	924.0	926.4	926.4	921.6	931.0	931.0	940.4	933.4	940.4	942.8
40°	841.6	841.6	839.4	839.4	839.4	844.0	839.4	846.4	841.6	846.4	844.0
42.5°	754.8	754.8	750.0	754.8	752.4	752.4	752.4	757.0	750.0	754.8	757.0
45°	667.8	665.4	665.4	663.0	663.0	663.0	665.4	665.4	663.0	667.8	667.8
47.5°	583.0	580.8	580.8	580.8	580.8	583.0	576.0	580.8	576.0	576.0	576.0
50°	510.1	507.9	505.5	503.1	500.8	500.8	498.4	498.4	493.8	491.4	489.0
52.5°	439.6	437.2	432.6	432.6	430.2	427.9	420.9	420.9	413.8	411.4	411.4
55°	376.1	369.1	366.8	362.1	362.1	357.4	352.6	348.0	340.9	336.2	336.2
57.5°	317.4	310.4	305.6	303.2	300.9	296.2	286.9	284.5	275.1	272.8	270.4
60°	265.6	258.6	251.6	246.9	244.5	237.5	228.0	223.4	218.6	211.6	204.5
62.5°	216.2	209.2	199.9	197.5	192.8	185.8	178.6	171.6	166.9	159.9	155.1
65°	174.0	166.9	159.9	155.1	150.5	143.4	136.4	129.2	124.6	122.2	119.9
67.5°	141.1	131.6	124.6	122.2	117.5	112.9	105.8	103.5	98.8	98.8	98.8
70°	110.5	103.5	96.4	94.0	91.8	87.0	82.2	82.2	82.2	82.2	82.2
72.5°	82.2	77.6	70.5	68.1	65.9	63.5	58.8	61.1	58.8	58.8	58.8
75°	51.8	47.0	42.4	40.0	37.6	35.2	32.9	30.6	28.2	25.9	25.9
77.5°	28.2	23.5	21.1	18.8	18.8	16.5	14.1	14.1	11.8	11.8	11.8
80°	16.5	14.1	11.8	9.4	9.4	7.0	7.0	7.0	7.0	4.8	4.8
82.5°	9.4	7.0	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4
85°	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P252375

CATALOG NUMBER: LE_6B30D010 EC6B30508027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4
2.5°	1796.2	1803.2	1796.2	1803.2	1803.2	1803.2	1803.2	1796.2
5°	1784.5	1789.1	1782.1	1786.8	1789.1	1786.8	1786.8	1779.8
7.5°	1763.2	1768.0	1761.0	1768.0	1770.4	1768.0	1765.6	1761.0
10°	1742.1	1744.5	1737.4	1742.1	1746.9	1746.9	1744.5	1737.4
12.5°	1709.2	1716.2	1709.2	1713.9	1718.6	1721.0	1721.0	1713.9
15°	1671.6	1683.4	1678.6	1685.8	1692.8	1695.1	1695.1	1692.8
17.5°	1634.0	1645.8	1638.6	1650.5	1657.5	1662.2	1664.5	1659.9
20°	1579.9	1594.0	1589.4	1598.8	1608.1	1615.1	1615.1	1608.1
22.5°	1509.4	1528.1	1525.9	1532.9	1544.6	1547.0	1551.8	1547.0
25°	1431.8	1445.9	1443.5	1450.6	1464.8	1464.8	1467.0	1467.0
27.5°	1342.5	1356.5	1354.2	1358.9	1368.4	1370.6	1373.0	1368.4
30°	1246.0	1253.1	1253.1	1260.1	1267.2	1269.6	1269.6	1262.5
32.5°	1140.2	1149.6	1154.4	1152.0	1159.1	1163.8	1161.4	1161.4
35°	1043.9	1046.2	1048.6	1050.9	1053.2	1058.0	1053.2	1050.9
37.5°	940.4	947.5	942.8	947.5	952.1	949.9	947.5	947.5
40°	846.4	848.8	844.0	848.8	851.1	851.1	851.1	846.4
42.5°	752.4	757.0	752.4	757.0	757.0	757.0	757.0	754.8
45°	658.2	663.0	663.0	665.4	665.4	663.0	663.0	663.0
47.5°	571.2	576.0	571.2	576.0	578.4	573.6	573.6	573.6
50°	489.0	486.6	486.6	489.0	489.0	489.0	489.0	486.6
52.5°	404.4	406.8	406.8	406.8	409.1	406.8	409.1	409.1
55°	331.5	331.5	331.5	333.9	331.5	331.5	333.9	336.2
57.5°	265.6	263.4	261.0	261.0	263.4	261.0	261.0	261.0
60°	204.5	202.2	199.9	199.9	199.9	199.9	199.9	197.5
62.5°	152.9	152.9	152.9	155.1	155.1	155.1	155.1	157.5
65°	122.2	122.2	122.2	122.2	122.2	122.2	122.2	124.6
67.5°	98.8	98.8	98.8	101.1	101.1	101.1	101.1	101.1
70°	82.2	82.2	84.6	82.2	84.6	84.6	84.6	84.6
72.5°	56.4	56.4	56.4	56.4	56.4	54.1	56.4	54.1
75°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	21.1
77.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	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)