

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: P252711

Luminaire Tested: **LE_6B40D010 EC6B30509727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252711
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_6B40D010 EC6B30509727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3481.3 lumens
Efficiency: N/A
Efficacy: 81.0 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

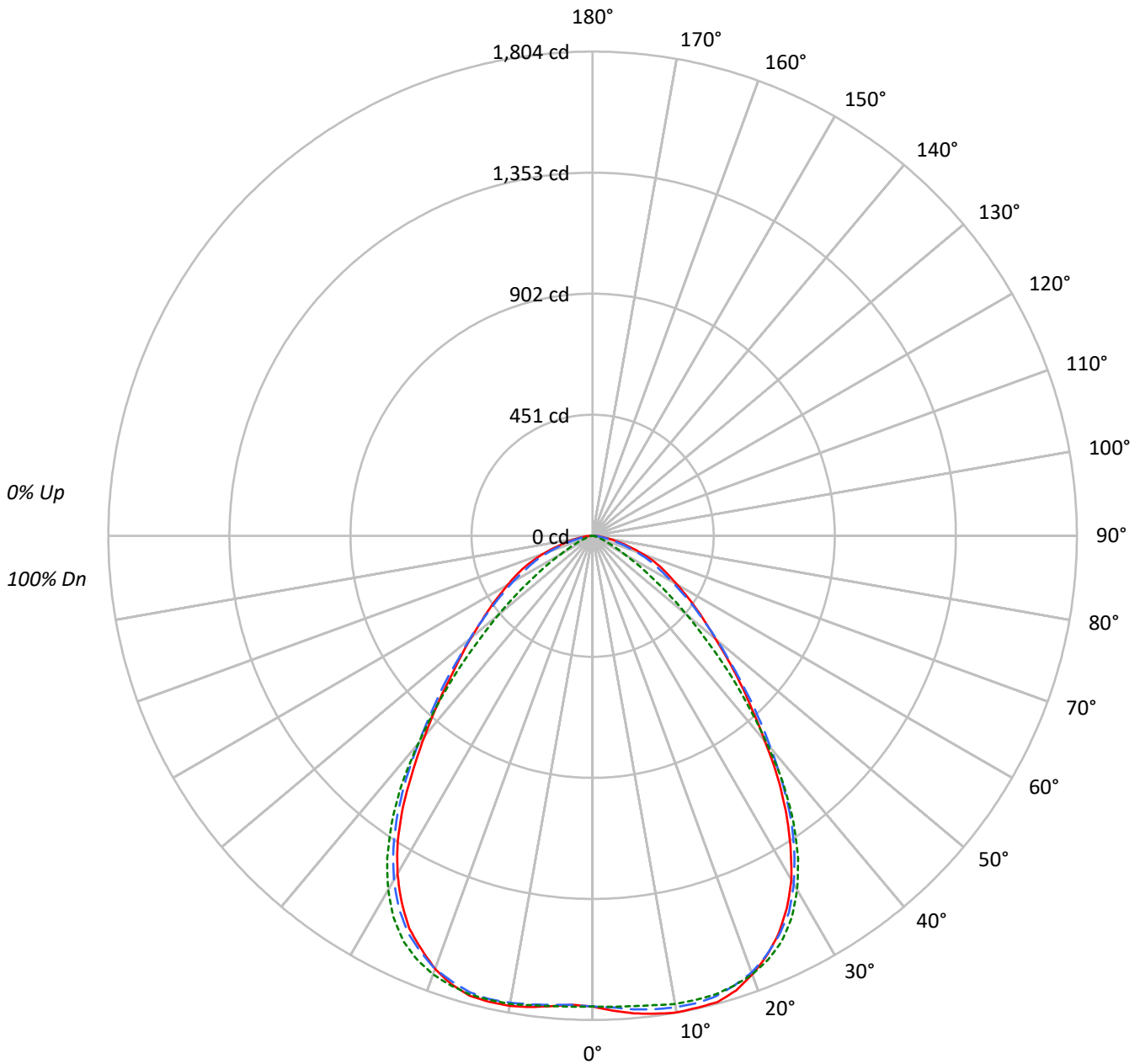
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	114426	114426	114426
5°	116971	115190	115190
10°	119477	117337	117840
15°	121481	119475	119806
20°	120735	120735	119193
25°	117868	120006	116256
30°	111569	114748	109520
35°	99969	103928	98002
40°	84927	85983	82824
45°	71874	65692	69346
50°	60685	46333	59923
55°	53334	29915	52766
60°	47260	17811	47573
65°	43657	10729	43657
70°	37864	6142	36910
75°	30022	3756	28131
80°	22354	2818	21415
85°	20361	1871	18564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	4.9
10°-20°	499.8	14.4
20°-30°	751.6	21.6
30°-40°	790.3	22.7
40°-50°	590.3	17.0
50°-60°	367.5	10.6
60°-70°	209.0	6.0
70°-80°	86.1	2.5
80°-90°	17.8	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°	1420.2	40.8
0°-40°	2210.5	63.5
0°-60°	3168.4	91.0
0°-90°	3481.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3481.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1754	1754	1754	1754	1754	
5°	1786	1771	1759	1754	1759	171
15°	1799	1776	1769	1761	1774	506
25°	1637	1642	1667	1630	1615	749
35°	1255	1288	1305	1268	1230	779
45°	779	796	712	782	752	604
55°	469	459	263	452	464	422
65°	283	253	70	253	283	278
75°	119	94	15	92	112	129
85°	27	17	2	15	25	30
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°	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9
2.5°	1771.2	1768.9	1771.2	1766.4	1763.9	1763.9	1766.4	1761.4	1758.9	1761.4	1758.9
5°	1786.1	1781.2	1783.8	1781.2	1776.2	1776.2	1778.8	1771.2	1771.2	1773.8	1771.2
7.5°	1796.1	1796.1	1796.1	1791.1	1788.6	1786.1	1791.1	1783.8	1781.2	1781.2	1778.8
10°	1803.5	1801.1	1803.5	1798.6	1793.6	1791.1	1796.1	1791.1	1786.1	1791.1	1783.8
12.5°	1801.1	1801.1	1801.1	1798.6	1793.6	1791.1	1796.1	1788.6	1786.1	1788.6	1783.8
15°	1798.6	1791.1	1793.6	1791.1	1783.8	1783.8	1786.1	1778.8	1773.8	1781.2	1776.2
17.5°	1776.2	1771.2	1773.8	1768.9	1763.9	1761.4	1763.9	1761.4	1756.4	1761.4	1756.4
20°	1739.0	1739.0	1741.5	1736.6	1731.6	1729.1	1734.1	1729.1	1724.1	1731.6	1731.6
22.5°	1694.4	1694.4	1694.4	1691.9	1689.4	1689.4	1689.4	1687.0	1684.5	1689.4	1691.9
25°	1637.4	1634.9	1637.4	1639.8	1637.4	1634.9	1637.4	1637.4	1632.4	1642.2	1642.2
27.5°	1565.4	1565.4	1570.4	1567.9	1567.9	1565.4	1570.4	1570.4	1567.9	1575.2	1582.8
30°	1481.0	1476.1	1481.0	1481.0	1483.5	1483.5	1486.0	1486.0	1486.0	1493.5	1498.4
32.5°	1371.9	1374.4	1381.8	1379.4	1376.9	1384.2	1384.2	1389.2	1391.8	1396.8	1399.1
35°	1255.2	1257.8	1257.8	1260.2	1265.2	1260.2	1272.6	1270.1	1272.6	1282.6	1287.5
37.5°	1131.2	1123.8	1136.2	1131.2	1133.8	1133.8	1138.8	1141.1	1148.6	1161.0	1161.0
40°	997.2	999.8	1004.8	1007.2	1009.6	1009.6	1009.6	1017.1	1019.6	1034.5	1032.0
42.5°	880.6	880.6	885.6	888.1	888.1	888.1	888.1	895.6	900.5	905.5	910.5
45°	779.0	771.5	776.5	776.5	781.5	779.0	783.9	788.9	791.4	798.9	796.4
47.5°	682.2	679.8	682.2	684.8	682.2	684.8	687.1	689.6	692.1	692.1	692.1
50°	597.9	597.9	600.4	602.9	602.9	602.9	602.9	605.4	605.4	610.2	605.4
52.5°	528.4	530.9	530.9	528.4	530.9	530.9	533.4	533.4	530.9	530.9	523.5
55°	468.9	466.4	468.9	466.4	468.9	468.9	466.4	466.4	463.9	461.4	459.0
57.5°	411.9	411.9	411.9	411.9	409.4	411.9	409.4	406.9	406.9	401.9	394.5
60°	362.2	362.2	362.2	362.2	362.2	359.8	362.2	359.8	354.8	349.8	339.9
62.5°	320.0	317.5	320.0	317.5	317.5	315.0	315.0	312.6	307.6	302.6	292.8
65°	282.8	285.2	282.8	282.8	280.4	277.9	277.9	275.4	267.9	263.0	253.0
67.5°	243.1	240.6	240.6	240.6	238.1	238.1	238.1	233.2	228.2	220.8	210.9
70°	198.5	198.5	198.5	196.0	196.0	193.5	193.5	191.0	186.0	181.1	168.8
72.5°	156.2	156.2	156.2	151.4	153.8	151.4	151.4	146.4	143.9	136.5	129.0
75°	119.1	119.1	116.6	116.6	114.1	111.6	111.6	109.1	106.6	101.8	94.2
77.5°	86.9	86.9	86.9	84.4	81.9	79.4	79.4	76.9	74.4	72.0	67.0
80°	59.5	59.5	59.5	59.5	57.0	54.6	54.6	52.1	52.1	49.6	44.6
82.5°	39.8	39.8	39.8	39.8	37.2	37.2	37.2	34.8	32.2	32.2	27.2
85°	27.2	27.2	24.8	24.8	24.8	24.8	22.4	22.4	19.9	17.4	17.4
87.5°	14.9	14.9	14.9	14.9	12.4	12.4	12.4	12.4	9.9	9.9	7.5
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°	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9
2.5°	1766.4	1766.4	1763.9	1756.4	1758.9	1756.4	1758.9	1756.4	1749.0	1756.4	1749.0
5°	1776.2	1778.8	1773.8	1763.9	1766.4	1763.9	1763.9	1761.4	1753.9	1758.9	1753.9
7.5°	1786.1	1783.8	1781.2	1771.2	1773.8	1771.2	1771.2	1766.4	1758.9	1763.9	1756.4
10°	1791.1	1791.1	1786.1	1776.2	1776.2	1773.8	1776.2	1773.8	1763.9	1771.2	1766.4
12.5°	1791.1	1788.6	1788.6	1776.2	1778.8	1776.2	1778.8	1773.8	1766.4	1771.2	1768.9
15°	1783.8	1783.8	1781.2	1768.9	1771.2	1771.2	1773.8	1768.9	1761.4	1768.9	1763.9
17.5°	1768.9	1768.9	1766.4	1756.4	1761.4	1761.4	1763.9	1758.9	1751.5	1756.4	1756.4
20°	1739.0	1741.5	1741.5	1734.1	1739.0	1739.0	1741.5	1739.0	1736.6	1739.0	1734.1
22.5°	1704.2	1709.2	1709.2	1701.9	1706.8	1706.8	1714.2	1711.8	1706.8	1709.2	1706.8
25°	1652.2	1657.1	1662.1	1657.1	1662.1	1662.1	1669.6	1667.1	1662.1	1667.1	1659.6
27.5°	1592.6	1595.1	1600.1	1595.1	1602.6	1600.1	1607.5	1605.1	1597.6	1605.1	1602.6
30°	1508.4	1518.2	1525.8	1518.2	1525.8	1525.8	1530.6	1528.1	1525.8	1523.2	1523.2
32.5°	1414.0	1424.0	1424.0	1421.5	1426.5	1426.5	1429.0	1424.0	1421.5	1424.0	1426.5
35°	1297.5	1302.4	1307.4	1304.9	1307.4	1309.9	1307.4	1309.9	1302.4	1304.9	1304.9
37.5°	1171.0	1175.9	1175.9	1168.5	1173.4	1173.4	1168.5	1168.5	1163.5	1168.5	1158.5
40°	1037.0	1032.0	1034.5	1029.5	1024.6	1024.6	1022.1	1012.1	1007.2	1009.6	1012.1
42.5°	905.5	905.5	898.0	885.6	873.2	873.2	865.8	860.9	850.9	855.9	853.4
45°	793.9	781.5	771.5	751.6	744.2	739.2	726.9	714.5	709.5	712.0	709.5
47.5°	687.1	677.2	652.5	625.1	617.8	610.2	595.4	580.5	575.5	570.6	570.6
50°	597.9	580.5	553.2	523.5	511.0	498.6	478.8	463.9	454.0	456.5	456.5
52.5°	516.0	496.1	463.9	426.8	411.9	396.9	379.6	362.2	354.8	352.2	352.2
55°	444.1	421.8	389.5	347.4	334.9	317.5	295.2	275.4	265.5	263.0	267.9
57.5°	379.6	359.8	322.5	280.4	265.5	248.1	225.8	208.4	196.0	193.5	196.0
60°	327.5	300.1	267.9	228.2	208.4	193.5	168.8	153.8	141.4	136.5	138.9
62.5°	275.4	250.5	218.2	178.6	163.8	148.9	126.5	109.1	99.2	96.8	99.2
65°	235.6	210.9	181.1	146.4	131.5	116.6	96.8	79.4	72.0	69.5	72.0
67.5°	196.0	173.6	148.9	116.6	104.2	91.8	72.0	59.5	49.6	47.1	49.6
70°	158.8	138.9	114.1	91.8	79.4	69.5	54.6	42.1	34.8	32.2	34.8
72.5°	119.1	104.2	86.9	67.0	59.5	52.1	39.8	29.8	24.8	22.4	24.8
75°	86.9	74.4	62.0	47.1	42.1	37.2	27.2	19.9	17.4	14.9	17.4
77.5°	59.5	52.1	42.1	32.2	27.2	24.8	17.4	14.9	12.4	9.9	9.9
80°	39.8	34.8	27.2	22.4	19.9	17.4	12.4	9.9	7.5	7.5	7.5
82.5°	24.8	19.9	17.4	12.4	9.9	9.9	7.5	5.0	5.0	5.0	5.0
85°	14.9	12.4	9.9	7.5	5.0	5.0	2.5	2.5	2.5	2.5	2.5
87.5°	7.5	5.0	5.0	2.5	2.5	2.5	2.5	2.5	0.0	0.0	2.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9
2.5°	1753.9	1749.0	1749.0	1751.5	1753.9	1756.4	1751.5	1749.0	1749.0	1756.4	1751.5
5°	1753.9	1751.5	1751.5	1751.5	1756.4	1758.9	1753.9	1751.5	1753.9	1761.4	1758.9
7.5°	1761.4	1756.4	1758.9	1758.9	1761.4	1766.4	1761.4	1758.9	1761.4	1768.9	1763.9
10°	1766.4	1761.4	1763.9	1761.4	1768.9	1771.2	1766.4	1763.9	1766.4	1776.2	1773.8
12.5°	1768.9	1766.4	1766.4	1763.9	1771.2	1773.8	1768.9	1766.4	1768.9	1776.2	1773.8
15°	1763.9	1761.4	1761.4	1761.4	1766.4	1771.2	1763.9	1761.4	1761.4	1768.9	1766.4
17.5°	1753.9	1749.0	1749.0	1749.0	1751.5	1753.9	1746.5	1744.0	1741.5	1749.0	1746.5
20°	1736.6	1731.6	1726.6	1726.6	1729.1	1729.1	1724.1	1716.8	1716.8	1719.2	1714.2
22.5°	1704.2	1701.9	1696.9	1694.4	1699.4	1696.9	1687.0	1679.5	1677.0	1679.5	1674.5
25°	1659.6	1654.8	1652.2	1649.8	1652.2	1649.8	1639.8	1629.9	1629.9	1629.9	1622.5
27.5°	1597.6	1592.6	1590.2	1590.2	1592.6	1587.8	1577.8	1567.9	1562.9	1562.9	1555.5
30°	1518.2	1518.2	1515.8	1513.2	1510.8	1510.8	1495.9	1486.0	1481.0	1483.5	1478.5
32.5°	1421.5	1419.0	1416.5	1409.1	1411.6	1409.1	1396.8	1389.2	1381.8	1376.9	1374.4
35°	1297.5	1297.5	1295.0	1295.0	1295.0	1292.5	1280.1	1272.6	1267.8	1265.2	1257.8
37.5°	1161.0	1158.5	1156.0	1156.0	1156.0	1156.0	1148.6	1141.1	1141.1	1138.8	1133.8
40°	1007.2	1009.6	1012.1	1009.6	1017.1	1024.6	1014.6	1009.6	1007.2	1014.6	1004.8
42.5°	858.4	855.9	868.2	870.8	870.8	883.1	885.6	888.1	885.6	890.6	890.6
45°	714.5	712.0	724.4	729.4	741.8	756.6	764.1	776.5	781.5	786.4	781.5
47.5°	578.0	588.0	597.9	610.2	620.2	645.0	659.9	672.2	677.2	684.8	684.8
50°	463.9	473.9	491.2	501.1	513.5	543.2	568.1	585.5	595.4	602.9	600.4
52.5°	357.2	374.6	396.9	406.9	424.2	459.0	486.2	506.1	518.5	525.9	528.4
55°	275.4	290.2	312.6	327.5	344.9	382.0	416.8	439.1	451.5	461.4	466.4
57.5°	203.4	220.8	245.6	258.0	277.9	320.0	349.8	377.1	392.0	404.4	406.9
60°	148.9	166.2	188.5	203.4	223.2	265.5	300.1	325.0	342.4	352.2	357.2
62.5°	106.6	124.0	146.4	161.2	178.6	215.9	250.5	275.4	292.8	305.1	312.6
65°	76.9	94.2	116.6	129.0	143.9	178.6	210.9	235.6	253.0	267.9	272.9
67.5°	57.0	69.5	89.2	101.8	116.6	143.9	171.1	193.5	210.9	223.2	228.2
70°	42.1	52.1	69.5	76.9	86.9	111.6	134.0	153.8	168.8	178.6	183.6
72.5°	29.8	37.2	49.6	57.0	64.5	84.4	101.8	116.6	126.5	136.5	141.4
75°	19.9	24.8	34.8	39.8	44.6	59.5	72.0	84.4	91.8	99.2	101.8
77.5°	12.4	17.4	24.8	27.2	32.2	39.8	49.6	57.0	62.0	67.0	72.0
80°	7.5	9.9	14.9	17.4	19.9	27.2	32.2	37.2	42.1	47.1	49.6
82.5°	5.0	7.5	9.9	9.9	12.4	14.9	19.9	24.8	27.2	29.8	32.2
85°	2.5	2.5	5.0	5.0	7.5	7.5	9.9	12.4	14.9	17.4	19.9
87.5°	2.5	2.5	2.5	2.5	5.0	5.0	7.5	7.5	7.5	9.9	9.9
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: P252711

CATALOG NUMBER: LE_6B40D010 EC6B30509727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9
2.5°	1746.5	1753.9	1746.5	1751.5	1749.0	1749.0	1746.5	1749.0
5°	1753.9	1763.9	1753.9	1761.4	1756.4	1756.4	1756.4	1758.9
7.5°	1761.4	1771.2	1763.9	1771.2	1768.9	1766.4	1766.4	1771.2
10°	1768.9	1776.2	1771.2	1778.8	1776.2	1773.8	1773.8	1778.8
12.5°	1768.9	1778.8	1773.8	1781.2	1778.8	1776.2	1776.2	1778.8
15°	1761.4	1773.8	1766.4	1773.8	1771.2	1768.9	1768.9	1773.8
17.5°	1739.0	1749.0	1744.0	1749.0	1749.0	1746.5	1749.0	1751.5
20°	1709.2	1716.8	1711.8	1716.8	1716.8	1711.8	1714.2	1716.8
22.5°	1667.1	1674.5	1669.6	1674.5	1672.0	1669.6	1669.6	1667.1
25°	1615.0	1624.9	1617.5	1622.5	1617.5	1612.5	1612.5	1615.0
27.5°	1550.5	1558.0	1548.0	1553.0	1548.0	1543.0	1543.0	1540.6
30°	1466.1	1468.6	1461.2	1466.1	1461.2	1458.8	1453.8	1453.8
32.5°	1364.5	1366.9	1359.5	1359.5	1354.5	1354.5	1344.6	1352.0
35°	1245.4	1247.9	1245.4	1242.9	1235.5	1233.0	1230.5	1230.5
37.5°	1121.4	1121.4	1113.9	1111.4	1106.5	1101.5	1104.0	1096.5
40°	994.8	992.4	984.9	987.4	984.9	977.4	975.0	972.5
42.5°	875.8	875.8	868.2	870.8	865.8	863.4	855.9	858.4
45°	771.5	771.5	764.1	764.1	761.6	754.1	756.6	751.6
47.5°	677.2	677.2	674.8	674.8	667.4	664.9	664.9	664.9
50°	595.4	595.4	595.4	595.4	592.9	590.4	588.0	590.4
52.5°	525.9	530.9	528.4	528.4	525.9	523.5	521.0	521.0
55°	463.9	466.4	466.4	468.9	466.4	463.9	466.4	463.9
57.5°	409.4	414.2	414.2	414.2	414.2	414.2	411.9	409.4
60°	362.2	364.6	364.6	367.1	367.1	367.1	364.6	364.6
62.5°	315.0	320.0	322.5	322.5	325.0	322.5	322.5	322.5
65°	277.9	282.8	285.2	282.8	285.2	285.2	282.8	282.8
67.5°	233.2	238.1	238.1	238.1	238.1	240.6	238.1	238.1
70°	188.5	193.5	191.0	193.5	193.5	193.5	193.5	193.5
72.5°	143.9	146.4	148.9	148.9	151.4	148.9	148.9	148.9
75°	104.2	109.1	109.1	109.1	109.1	111.6	111.6	111.6
77.5°	74.4	76.9	76.9	79.4	79.4	79.4	79.4	81.9
80°	52.1	52.1	54.6	54.6	57.0	57.0	57.0	57.0
82.5°	34.8	37.2	37.2	37.2	37.2	37.2	37.2	37.2
85°	19.9	22.4	22.4	22.4	22.4	24.8	24.8	24.8
87.5°	12.4	12.4	12.4	12.4	12.4	12.4	9.9	9.9
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)