

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: P252688

Luminaire Tested: **LE\_6B30D010 EC6B30508030 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252688  
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\_6B30D010 EC6B30508030 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3448.7 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

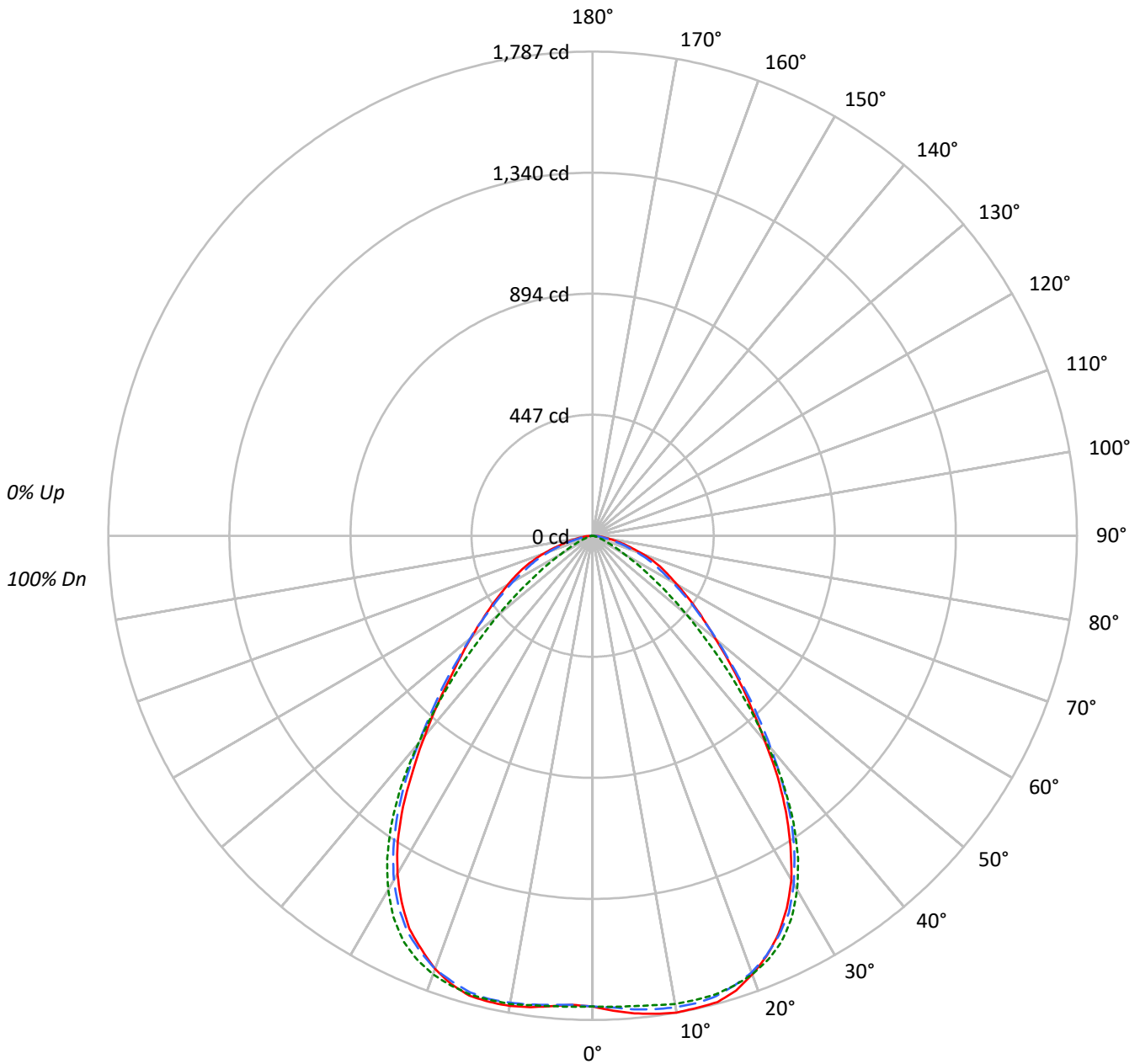
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	113356	113356	113356
5°	115884	114116	114116
10°	118370	116250	116734
15°	120346	118347	118685
20°	119610	119610	118083
25°	116760	118883	115169
30°	110529	113678	108488
35°	99045	102964	97086
40°	84144	85183	82049
45°	71209	65083	68700
50°	60106	45897	59365
55°	52834	29630	52277
60°	46830	17628	47130
65°	43240	10636	43240
70°	37502	6104	36586
75°	29744	3731	27879
80°	22167	2780	21227
85°	20211	1871	18414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.3	4.9
10°-20°	495.1	14.4
20°-30°	744.6	21.6
30°-40°	782.9	22.7
40°-50°	584.8	17.0
50°-60°	364.1	10.6
60°-70°	207.1	6.0
70°-80°	85.3	2.5
80°-90°	17.6	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°	1407.0	40.8
0°-40°	2189.8	63.5
0°-60°	3138.8	91.0
0°-90°	3448.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1738	1738	1738	1738	1738	
5°	1770	1755	1742	1738	1742	169
15°	1782	1760	1752	1745	1757	501
25°	1622	1627	1652	1615	1600	742
35°	1244	1276	1293	1256	1219	772
45°	772	789	705	774	745	598
55°	464	455	260	447	460	418
65°	280	251	69	251	280	276
75°	118	93	15	91	111	128
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°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1754.8	1752.2	1754.8	1749.9	1747.4	1747.4	1749.9	1744.9	1742.5	1744.9	1742.5
5°	1769.5	1764.6	1767.0	1764.6	1759.6	1759.6	1762.1	1754.8	1754.8	1757.2	1754.8
7.5°	1779.4	1779.4	1779.4	1774.4	1772.0	1769.5	1774.4	1767.0	1764.6	1764.6	1762.1
10°	1786.8	1784.2	1786.8	1781.8	1776.9	1774.4	1779.4	1774.4	1769.5	1774.4	1767.0
12.5°	1784.2	1784.2	1784.2	1781.8	1776.9	1774.4	1779.4	1772.0	1769.5	1772.0	1767.0
15°	1781.8	1774.4	1776.9	1774.4	1767.0	1767.0	1769.5	1762.1	1757.2	1764.6	1759.6
17.5°	1759.6	1754.8	1757.2	1752.2	1747.4	1744.9	1747.4	1744.9	1740.0	1744.9	1740.0
20°	1722.8	1722.8	1725.2	1720.4	1715.4	1713.0	1717.9	1713.0	1708.0	1715.4	1715.4
22.5°	1678.6	1678.6	1678.6	1676.1	1673.6	1673.6	1673.6	1671.2	1668.8	1673.6	1676.1
25°	1622.0	1619.6	1622.0	1624.5	1622.0	1619.6	1622.0	1622.0	1617.1	1627.0	1627.0
27.5°	1550.8	1550.8	1555.8	1553.2	1553.2	1550.8	1555.8	1555.8	1553.2	1560.6	1568.0
30°	1467.2	1462.2	1467.2	1467.2	1469.6	1469.6	1472.1	1472.1	1472.1	1479.5	1484.4
32.5°	1359.1	1361.5	1368.9	1366.5	1364.0	1371.4	1371.4	1376.2	1378.8	1383.6	1386.1
35°	1243.6	1246.0	1246.0	1248.5	1253.4	1248.5	1260.8	1258.4	1260.8	1270.6	1275.5
37.5°	1120.6	1113.4	1125.6	1120.6	1123.1	1123.1	1128.0	1130.5	1137.9	1150.1	1150.1
40°	988.0	990.4	995.4	997.8	1000.2	1000.2	1000.2	1007.6	1010.1	1024.9	1022.4
42.5°	872.5	872.5	877.4	879.9	879.9	879.9	879.9	887.2	892.1	897.0	902.0
45°	771.8	764.4	769.2	769.2	774.1	771.8	776.6	781.5	784.0	791.4	788.9
47.5°	675.9	673.4	675.9	678.2	675.9	678.2	680.8	683.2	685.6	685.6	685.6
50°	592.2	592.2	594.8	597.2	597.2	597.2	597.2	599.6	599.6	604.6	599.6
52.5°	523.5	525.9	525.9	523.5	525.9	525.9	528.4	528.4	525.9	525.9	518.6
55°	464.5	462.0	464.5	462.0	464.5	464.5	462.0	462.0	459.6	457.1	454.6
57.5°	408.0	408.0	408.0	408.0	405.5	408.0	405.5	403.0	403.0	398.1	390.8
60°	358.9	358.9	358.9	358.9	358.9	356.4	358.9	356.4	351.5	346.5	336.8
62.5°	317.0	314.6	317.0	314.6	314.6	312.1	312.1	309.6	304.8	299.9	290.0
65°	280.1	282.6	280.1	280.1	277.8	275.2	275.2	272.8	265.4	260.5	250.6
67.5°	240.9	238.4	238.4	238.4	235.9	235.9	235.9	231.0	226.1	218.8	208.9
70°	196.6	196.6	196.6	194.1	194.1	191.8	191.8	189.2	184.4	179.4	167.1
72.5°	154.9	154.9	154.9	149.9	152.4	149.9	149.9	145.0	142.5	135.1	127.8
75°	118.0	118.0	115.5	115.5	113.0	110.6	110.6	108.1	105.6	100.8	93.4
77.5°	86.0	86.0	86.0	83.5	81.1	78.6	78.6	76.1	73.8	71.2	66.4
80°	59.0	59.0	59.0	59.0	56.5	54.1	54.1	51.6	51.6	49.1	44.2
82.5°	39.4	39.4	39.4	39.4	36.9	36.9	36.9	34.4	32.0	32.0	27.0
85°	27.0	27.0	24.6	24.6	24.6	24.6	22.1	22.1	19.6	17.2	17.2
87.5°	14.8	14.8	14.8	14.8	12.2	12.2	12.2	12.2	9.9	9.9	7.4
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°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1749.9	1749.9	1747.4	1740.0	1742.5	1740.0	1742.5	1740.0	1732.6	1740.0	1732.6
5°	1759.6	1762.1	1757.2	1747.4	1749.9	1747.4	1747.4	1744.9	1737.5	1742.5	1737.5
7.5°	1769.5	1767.0	1764.6	1754.8	1757.2	1754.8	1754.8	1749.9	1742.5	1747.4	1740.0
10°	1774.4	1774.4	1769.5	1759.6	1759.6	1757.2	1759.6	1757.2	1747.4	1754.8	1749.9
12.5°	1774.4	1772.0	1772.0	1759.6	1762.1	1759.6	1762.1	1757.2	1749.9	1754.8	1752.2
15°	1767.0	1767.0	1764.6	1752.2	1754.8	1754.8	1757.2	1752.2	1744.9	1752.2	1747.4
17.5°	1752.2	1752.2	1749.9	1740.0	1744.9	1744.9	1747.4	1742.5	1735.1	1740.0	1740.0
20°	1722.8	1725.2	1725.2	1717.9	1722.8	1722.8	1725.2	1722.8	1720.4	1722.8	1717.9
22.5°	1688.4	1693.4	1693.4	1686.0	1690.9	1690.9	1698.2	1695.8	1690.9	1693.4	1690.9
25°	1636.8	1641.8	1646.6	1641.8	1646.6	1646.6	1654.0	1651.5	1646.6	1651.5	1644.1
27.5°	1577.8	1580.2	1585.1	1580.2	1587.6	1585.1	1592.5	1590.1	1582.8	1590.1	1587.6
30°	1494.2	1504.1	1511.5	1504.1	1511.5	1511.5	1516.4	1513.9	1511.5	1509.0	1509.0
32.5°	1400.9	1410.6	1410.6	1408.2	1413.1	1413.1	1415.6	1410.6	1408.2	1410.6	1413.1
35°	1285.4	1290.2	1295.1	1292.8	1295.1	1297.6	1295.1	1297.6	1290.2	1292.8	1292.8
37.5°	1160.0	1164.9	1164.9	1157.5	1162.5	1162.5	1157.5	1157.5	1152.6	1157.5	1147.8
40°	1027.2	1022.4	1024.9	1019.9	1015.0	1015.0	1012.5	1002.8	997.8	1000.2	1002.8
42.5°	897.0	897.0	889.6	877.4	865.1	865.1	857.8	852.8	843.0	847.9	845.4
45°	786.5	774.1	764.4	744.6	737.2	732.4	720.1	707.8	702.9	705.4	702.9
47.5°	680.8	670.9	646.4	619.4	612.0	604.6	589.9	575.1	570.1	565.2	565.2
50°	592.2	575.1	548.0	518.6	506.2	494.0	474.4	459.6	449.8	452.2	452.2
52.5°	511.2	491.5	459.6	422.8	408.0	393.2	376.0	358.9	351.5	349.0	349.0
55°	439.9	417.8	385.9	344.1	331.8	314.6	292.5	272.8	263.0	260.5	265.4
57.5°	376.0	356.4	319.5	277.8	263.0	245.8	223.6	206.5	194.1	191.8	194.1
60°	324.4	297.4	265.4	226.1	206.5	191.8	167.1	152.4	140.1	135.1	137.6
62.5°	272.8	248.2	216.2	177.0	162.2	147.5	125.4	108.1	98.2	95.9	98.2
65°	233.5	208.9	179.4	145.0	130.2	115.5	95.9	78.6	71.2	68.9	71.2
67.5°	194.1	172.0	147.5	115.5	103.2	90.9	71.2	59.0	49.1	46.8	49.1
70°	157.2	137.6	113.0	90.9	78.6	68.9	54.1	41.8	34.4	32.0	34.4
72.5°	118.0	103.2	86.0	66.4	59.0	51.6	39.4	29.5	24.6	22.1	24.6
75°	86.0	73.8	61.5	46.8	41.8	36.9	27.0	19.6	17.2	14.8	17.2
77.5°	59.0	51.6	41.8	32.0	27.0	24.6	17.2	14.8	12.2	9.9	9.9
80°	39.4	34.4	27.0	22.1	19.6	17.2	12.2	9.9	7.4	7.4	7.4
82.5°	24.6	19.6	17.2	12.2	9.9	9.9	7.4	4.9	4.9	4.9	4.9
85°	14.8	12.2	9.9	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5
87.5°	7.4	4.9	4.9	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°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1737.5	1732.6	1732.6	1735.1	1737.5	1740.0	1735.1	1732.6	1732.6	1740.0	1735.1
5°	1737.5	1735.1	1735.1	1735.1	1740.0	1742.5	1737.5	1735.1	1737.5	1744.9	1742.5
7.5°	1744.9	1740.0	1742.5	1742.5	1744.9	1749.9	1744.9	1742.5	1744.9	1752.2	1747.4
10°	1749.9	1744.9	1747.4	1744.9	1752.2	1754.8	1749.9	1747.4	1749.9	1759.6	1757.2
12.5°	1752.2	1749.9	1749.9	1747.4	1754.8	1757.2	1752.2	1749.9	1752.2	1759.6	1757.2
15°	1747.4	1744.9	1744.9	1744.9	1749.9	1754.8	1747.4	1744.9	1744.9	1752.2	1749.9
17.5°	1737.5	1732.6	1732.6	1732.6	1735.1	1737.5	1730.1	1727.8	1725.2	1732.6	1730.1
20°	1720.4	1715.4	1710.5	1710.5	1713.0	1713.0	1708.0	1700.8	1700.8	1703.1	1698.2
22.5°	1688.4	1686.0	1681.0	1678.6	1683.5	1681.0	1671.2	1663.9	1661.4	1663.9	1658.9
25°	1644.1	1639.2	1636.8	1634.4	1636.8	1634.4	1624.5	1614.6	1614.6	1614.6	1607.2
27.5°	1582.8	1577.8	1575.4	1575.4	1577.8	1572.9	1563.0	1553.2	1548.4	1548.4	1541.0
30°	1504.1	1504.1	1501.6	1499.1	1496.8	1496.8	1482.0	1472.1	1467.2	1469.6	1464.8
32.5°	1408.2	1405.8	1403.4	1396.0	1398.4	1396.0	1383.6	1376.2	1368.9	1364.0	1361.5
35°	1285.4	1285.4	1282.9	1282.9	1282.9	1280.4	1268.1	1260.8	1255.9	1253.4	1246.0
37.5°	1150.1	1147.8	1145.2	1145.2	1145.2	1145.2	1137.9	1130.5	1130.5	1128.0	1123.1
40°	997.8	1000.2	1002.8	1000.2	1007.6	1015.0	1005.1	1000.2	997.8	1005.1	995.4
42.5°	850.4	847.9	860.1	862.6	862.6	874.9	877.4	879.9	877.4	882.2	882.2
45°	707.8	705.4	717.6	722.5	734.9	749.6	757.0	769.2	774.1	779.1	774.1
47.5°	572.6	582.5	592.2	604.6	614.4	639.0	653.8	666.0	670.9	678.2	678.2
50°	459.6	469.4	486.6	496.5	508.8	538.2	562.8	580.0	589.9	597.2	594.8
52.5°	353.9	371.1	393.2	403.0	420.2	454.6	481.8	501.4	513.6	521.0	523.5
55°	272.8	287.5	309.6	324.4	341.6	378.5	412.9	435.0	447.2	457.1	462.0
57.5°	201.5	218.8	243.2	255.6	275.2	317.0	346.5	373.5	388.2	400.6	403.0
60°	147.5	164.6	186.8	201.5	221.2	263.0	297.4	322.0	339.1	349.0	353.9
62.5°	105.6	122.9	145.0	159.8	177.0	213.9	248.2	272.8	290.0	302.2	309.6
65°	76.1	93.4	115.5	127.8	142.5	177.0	208.9	233.5	250.6	265.4	270.4
67.5°	56.5	68.9	88.5	100.8	115.5	142.5	169.6	191.8	208.9	221.2	226.1
70°	41.8	51.6	68.9	76.1	86.0	110.6	132.8	152.4	167.1	177.0	181.9
72.5°	29.5	36.9	49.1	56.5	63.9	83.5	100.8	115.5	125.4	135.1	140.1
75°	19.6	24.6	34.4	39.4	44.2	59.0	71.2	83.5	90.9	98.2	100.8
77.5°	12.2	17.2	24.6	27.0	32.0	39.4	49.1	56.5	61.5	66.4	71.2
80°	7.4	9.9	14.8	17.2	19.6	27.0	32.0	36.9	41.8	46.8	49.1
82.5°	4.9	7.4	9.9	9.9	12.2	14.8	19.6	24.6	27.0	29.5	32.0
85°	2.5	2.5	4.9	4.9	7.4	7.4	9.9	12.2	14.8	17.2	19.6
87.5°	2.5	2.5	2.5	2.5	4.9	4.9	7.4	7.4	7.4	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: P252688

CATALOG NUMBER: LE\_6B30D010 EC6B30508030 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1730.1	1737.5	1730.1	1735.1	1732.6	1732.6	1730.1	1732.6
5°	1737.5	1747.4	1737.5	1744.9	1740.0	1740.0	1740.0	1742.5
7.5°	1744.9	1754.8	1747.4	1754.8	1752.2	1749.9	1749.9	1754.8
10°	1752.2	1759.6	1754.8	1762.1	1759.6	1757.2	1757.2	1762.1
12.5°	1752.2	1762.1	1757.2	1764.6	1762.1	1759.6	1759.6	1762.1
15°	1744.9	1757.2	1749.9	1757.2	1754.8	1752.2	1752.2	1757.2
17.5°	1722.8	1732.6	1727.8	1732.6	1732.6	1730.1	1732.6	1735.1
20°	1693.4	1700.8	1695.8	1700.8	1700.8	1695.8	1698.2	1700.8
22.5°	1651.5	1658.9	1654.0	1658.9	1656.5	1654.0	1654.0	1651.5
25°	1599.9	1609.8	1602.4	1607.2	1602.4	1597.5	1597.5	1599.9
27.5°	1536.0	1543.4	1533.6	1538.5	1533.6	1528.6	1528.6	1526.2
30°	1452.5	1454.9	1447.5	1452.5	1447.5	1445.1	1440.1	1440.1
32.5°	1351.8	1354.1	1346.8	1346.8	1341.9	1341.9	1332.0	1339.4
35°	1233.8	1236.2	1233.8	1231.2	1223.9	1221.5	1219.0	1219.0
37.5°	1110.9	1110.9	1103.5	1101.0	1096.1	1091.2	1093.6	1086.2
40°	985.5	983.0	975.6	978.1	975.6	968.2	965.9	963.4
42.5°	867.5	867.5	860.1	862.6	857.8	855.2	847.9	850.4
45°	764.4	764.4	757.0	757.0	754.5	747.1	749.6	744.6
47.5°	670.9	670.9	668.5	668.5	661.1	658.6	658.6	658.6
50°	589.9	589.9	589.9	589.9	587.4	584.9	582.5	584.9
52.5°	521.0	525.9	523.5	523.5	521.0	518.6	516.1	516.1
55°	459.6	462.0	462.0	464.5	462.0	459.6	462.0	459.6
57.5°	405.5	410.4	410.4	410.4	410.4	410.4	408.0	405.5
60°	358.9	361.2	361.2	363.8	363.8	363.8	361.2	361.2
62.5°	312.1	317.0	319.5	319.5	322.0	319.5	319.5	319.5
65°	275.2	280.1	282.6	280.1	282.6	282.6	280.1	280.1
67.5°	231.0	235.9	235.9	235.9	235.9	238.4	235.9	235.9
70°	186.8	191.8	189.2	191.8	191.8	191.8	191.8	191.8
72.5°	142.5	145.0	147.5	147.5	149.9	147.5	147.5	147.5
75°	103.2	108.1	108.1	108.1	108.1	110.6	110.6	110.6
77.5°	73.8	76.1	76.1	78.6	78.6	78.6	78.6	81.1
80°	51.6	51.6	54.1	54.1	56.5	56.5	56.5	56.5
82.5°	34.4	36.9	36.9	36.9	36.9	36.9	36.9	36.9
85°	19.6	22.1	22.1	22.1	22.1	24.6	24.6	24.6
87.5°	12.2	12.2	12.2	12.2	12.2	12.2	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)