

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: P252584

Luminaire Tested: **LE_6B30D010 EC6B30508030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252584
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 EC6B30508030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3682.5 lumens
Efficiency: N/A
Efficacy: 131.5 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

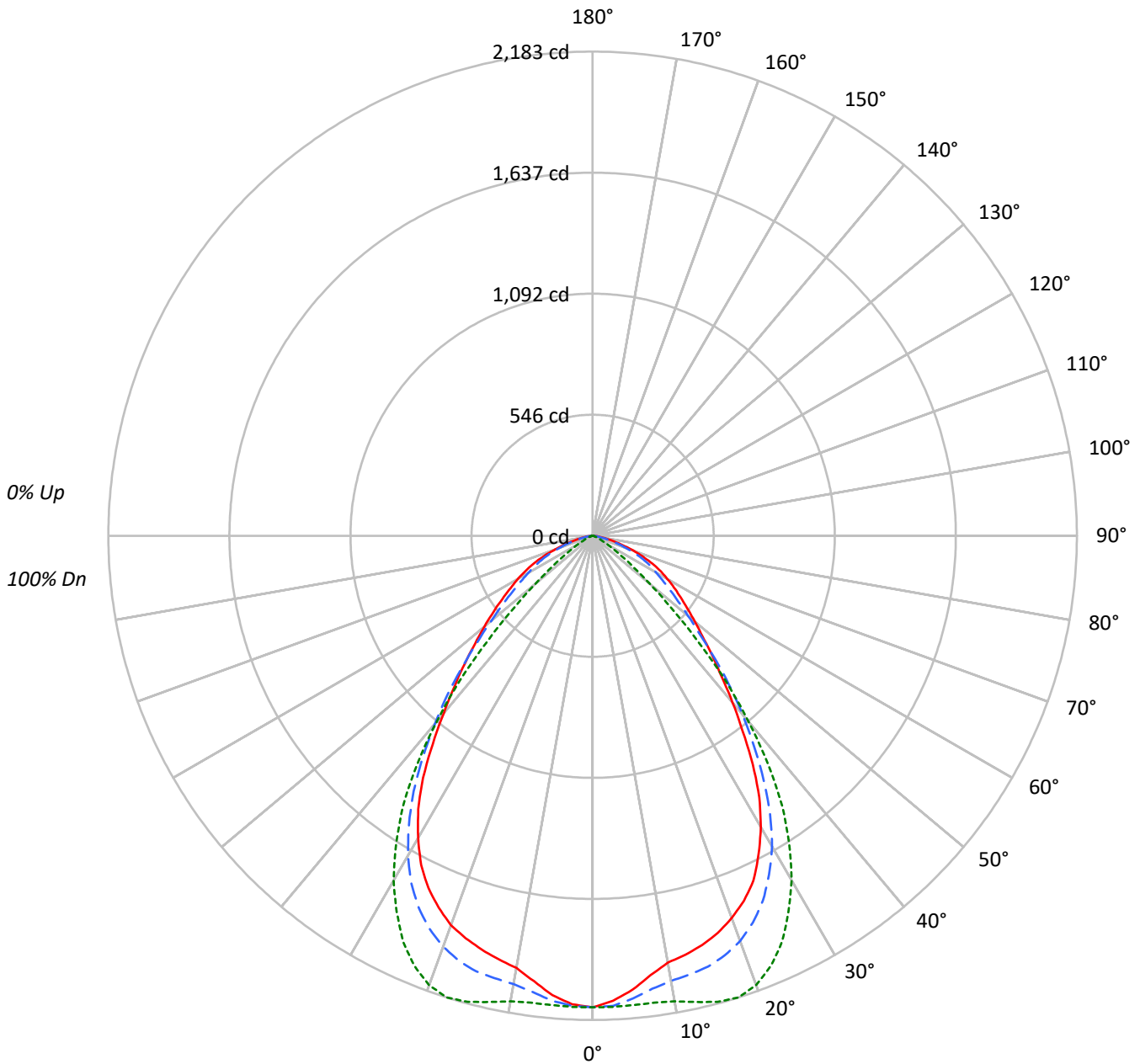
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	138708	138708	138708
5°	134569	139074	136180
10°	129447	141173	131076
15°	128992	146918	130485
20°	127302	149658	129691
25°	123498	145439	126154
30°	114243	135163	118499
35°	100232	118829	106094
40°	83530	93154	88964
45°	70305	61457	75066
50°	60878	33687	64613
55°	55075	17880	56474
60°	50679	9290	50679
65°	45910	4940	44768
70°	37025	2823	34221
75°	25409	1865	23543
80°	16606	939	14803
85°	11079	1871	9132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	5.4
10°-20°	573.3	15.6
20°-30°	847.0	23.0
30°-40°	855.6	23.2
40°-50°	589.7	16.0
50°-60°	338.7	9.2
60°-70°	197.1	5.4
70°-80°	71.9	2.0
80°-90°	11.0	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°	1618.5	44.0
0°-40°	2474.1	67.2
0°-60°	3402.5	92.4
0°-90°	3682.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2126	2126	2126	2126	2126	
5°	2055	2094	2124	2104	2079	193
15°	1910	2011	2175	2033	1932	538
25°	1716	1816	2020	1853	1752	782
35°	1258	1344	1492	1406	1332	781
45°	762	772	666	821	814	593
55°	484	425	157	442	496	436
65°	297	251	32	248	290	291
75°	101	81	7	79	93	114
85°	15	7	2	10	12	19
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°	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
2.5°	2099.0	2101.5	2104.0	2101.5	2104.0	2113.8	2106.4	2111.4	2111.4	2113.8	2121.1
5°	2054.8	2054.8	2059.8	2057.2	2064.6	2074.5	2067.1	2074.5	2076.9	2081.9	2094.1
7.5°	1998.2	1998.2	2000.8	2000.8	2010.6	2020.4	2015.5	2025.4	2035.1	2045.0	2059.8
10°	1954.0	1959.0	1959.0	1961.4	1971.2	1983.5	1981.1	1993.4	2003.2	2018.0	2037.6
12.5°	1934.4	1936.9	1936.9	1941.8	1951.6	1963.9	1961.4	1973.8	1988.5	2005.6	2025.4
15°	1909.8	1914.8	1912.2	1917.1	1927.0	1939.2	1936.9	1949.1	1966.4	1983.5	2010.6
17.5°	1877.9	1880.2	1882.8	1882.8	1892.6	1902.4	1902.4	1914.8	1934.4	1954.0	1983.5
20°	1833.6	1838.5	1838.5	1841.0	1848.4	1863.1	1860.6	1872.9	1892.6	1912.2	1944.2
22.5°	1782.0	1784.5	1784.5	1786.9	1799.2	1806.6	1809.0	1818.9	1836.0	1858.1	1887.6
25°	1715.6	1718.1	1715.6	1723.0	1727.9	1742.6	1737.8	1750.0	1769.8	1786.9	1816.4
27.5°	1619.8	1624.6	1624.6	1627.1	1639.4	1651.8	1651.8	1664.0	1681.2	1693.5	1723.0
30°	1516.5	1523.9	1516.5	1528.9	1533.8	1543.6	1551.0	1558.4	1573.0	1590.2	1617.2
32.5°	1398.5	1396.1	1398.5	1403.5	1418.2	1425.6	1430.5	1437.9	1452.6	1467.4	1489.5
35°	1258.5	1263.4	1265.9	1275.6	1275.6	1288.0	1290.4	1295.4	1317.5	1327.2	1344.5
37.5°	1111.0	1115.9	1118.4	1123.2	1133.1	1138.0	1145.4	1152.8	1167.5	1184.8	1194.5
40°	980.8	980.8	983.1	988.1	995.5	997.9	1005.2	1015.1	1025.0	1039.8	1049.5
42.5°	857.8	860.2	857.8	862.8	870.1	879.9	877.5	889.8	892.2	902.0	909.4
45°	762.0	762.0	757.0	762.0	762.0	771.8	769.4	774.2	771.8	776.8	771.8
47.5°	671.0	673.5	671.0	673.5	673.5	673.5	675.9	671.0	673.5	666.1	651.4
50°	599.8	602.2	597.2	599.8	597.2	594.9	597.2	589.9	587.5	577.6	562.9
52.5°	538.2	535.9	533.4	533.4	533.4	530.9	528.5	521.1	513.8	503.9	486.6
55°	484.2	481.8	479.2	479.2	474.4	471.9	471.9	464.5	457.1	444.9	425.2
57.5°	435.0	432.6	430.1	430.1	427.6	422.8	422.8	415.4	405.5	390.8	373.6
60°	388.4	388.4	388.4	385.9	385.9	381.0	381.0	373.6	363.8	349.0	329.4
62.5°	346.6	344.1	344.1	344.1	344.1	341.6	339.2	334.2	324.5	309.8	292.5
65°	297.4	297.4	297.4	297.4	295.0	295.0	295.0	287.6	282.6	267.9	250.8
67.5°	243.4	243.4	243.4	243.4	240.9	243.4	243.4	238.4	233.5	218.8	204.0
70°	194.1	191.8	189.2	191.8	189.2	189.2	191.8	186.8	184.4	172.0	157.2
72.5°	142.5	145.0	142.5	142.5	142.5	140.1	142.5	140.1	135.1	125.4	115.5
75°	100.8	103.2	103.2	100.8	100.8	100.8	98.4	98.4	93.4	86.0	81.1
77.5°	68.9	68.9	68.9	68.9	66.4	66.4	66.4	63.9	61.5	56.5	51.6
80°	44.2	44.2	44.2	44.2	41.8	41.8	41.8	39.4	39.4	34.4	29.5
82.5°	27.0	27.0	27.0	27.0	27.0	27.0	24.6	24.6	22.1	19.6	17.2
85°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	12.2	12.2	9.9	7.4
87.5°	4.9	4.9	7.4	7.4	7.4	7.4	7.4	7.4	4.9	4.9	4.9
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°	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
2.5°	2116.2	2118.8	2118.8	2118.8	2126.1	2128.5	2121.1	2113.8	2128.5	2126.1	2131.0
5°	2091.6	2099.0	2104.0	2106.4	2113.8	2118.8	2111.4	2108.9	2121.1	2123.6	2126.1
7.5°	2062.1	2074.5	2086.8	2091.6	2101.5	2106.4	2104.0	2104.0	2118.8	2123.6	2123.6
10°	2042.5	2059.8	2074.5	2086.8	2099.0	2106.4	2106.4	2108.9	2126.1	2131.0	2135.9
12.5°	2037.6	2059.8	2079.4	2096.6	2106.4	2118.8	2121.1	2128.5	2145.8	2153.1	2153.1
15°	2025.4	2054.8	2079.4	2101.5	2116.2	2131.0	2135.9	2150.6	2170.4	2175.2	2180.1
17.5°	2003.2	2032.8	2062.1	2089.2	2108.9	2121.1	2135.9	2150.6	2175.2	2182.6	2185.1
20°	1963.9	1998.2	2027.8	2054.8	2074.5	2091.6	2106.4	2123.6	2145.8	2155.6	2158.0
22.5°	1904.9	1939.2	1968.8	1998.2	2018.0	2032.8	2047.5	2067.1	2089.2	2099.0	2099.0
25°	1833.6	1865.5	1897.5	1919.6	1939.2	1956.5	1963.9	1986.0	2008.1	2020.4	2020.4
27.5°	1742.6	1772.1	1801.6	1826.2	1838.5	1853.2	1865.5	1885.2	1902.4	1912.2	1922.1
30°	1627.1	1656.6	1683.6	1708.2	1723.0	1737.8	1750.0	1764.8	1782.0	1794.2	1796.8
32.5°	1501.8	1526.4	1553.4	1578.0	1592.8	1597.6	1609.9	1624.6	1639.4	1649.2	1651.8
35°	1364.1	1381.4	1398.5	1420.6	1435.4	1435.4	1447.8	1457.5	1469.9	1492.0	1487.0
37.5°	1201.9	1226.5	1238.8	1246.1	1256.0	1265.9	1268.2	1280.6	1295.4	1300.2	1307.6
40°	1049.5	1056.9	1064.2	1064.2	1074.1	1074.1	1074.1	1076.6	1091.2	1093.8	1103.6
42.5°	897.1	897.1	889.8	882.4	884.9	882.4	870.1	870.1	877.5	887.2	887.2
45°	754.6	737.4	715.2	698.0	685.8	680.9	666.1	666.1	663.6	666.1	675.9
47.5°	634.1	604.6	567.8	533.4	521.1	511.2	489.1	479.2	474.4	476.9	481.8
50°	533.4	501.4	459.6	417.9	395.8	383.4	356.4	339.2	336.8	331.9	341.6
52.5°	459.6	420.2	376.0	326.9	304.8	285.1	255.6	240.9	231.0	231.0	233.5
55°	395.8	354.0	304.8	255.6	233.5	218.8	189.2	169.6	159.8	157.2	164.6
57.5°	341.6	302.4	253.1	204.0	181.9	164.6	135.1	118.0	110.6	105.8	108.1
60°	299.9	260.5	211.4	164.6	145.0	125.4	100.8	81.1	71.2	71.2	73.8
62.5°	260.5	223.6	179.4	135.1	118.0	100.8	73.8	56.5	49.1	46.8	49.1
65°	221.2	186.8	149.9	113.1	95.9	81.1	59.0	44.2	34.4	32.0	34.4
67.5°	179.4	152.4	120.5	91.0	76.2	63.9	44.2	32.0	24.6	22.1	24.6
70°	140.1	115.5	91.0	66.4	56.5	46.8	32.0	24.6	17.2	14.8	17.2
72.5°	100.8	83.6	63.9	46.8	39.4	32.0	22.1	17.2	12.2	9.9	12.2
75°	68.9	56.5	41.8	29.5	24.6	22.1	14.8	9.9	7.4	7.4	7.4
77.5°	44.2	34.4	27.0	19.6	14.8	12.2	7.4	4.9	4.9	4.9	4.9
80°	24.6	19.6	14.8	9.9	7.4	7.4	4.9	4.9	2.5	2.5	2.5
82.5°	14.8	9.9	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5
85°	7.4	4.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
2.5°	2121.1	2123.6	2116.2	2126.1	2118.8	2128.5	2128.5	2118.8	2121.1	2116.2	2126.1
5°	2116.2	2116.2	2111.4	2118.8	2108.9	2118.8	2116.2	2099.0	2104.0	2094.1	2104.0
7.5°	2116.2	2111.4	2104.0	2111.4	2099.0	2106.4	2096.6	2079.4	2074.5	2062.1	2062.1
10°	2123.6	2116.2	2106.4	2108.9	2096.6	2099.0	2084.2	2059.8	2052.4	2037.6	2032.8
12.5°	2140.9	2133.5	2118.8	2123.6	2106.4	2106.4	2086.8	2057.2	2042.5	2022.9	2018.0
15°	2165.4	2153.1	2135.9	2138.4	2121.1	2111.4	2086.8	2052.4	2032.8	2005.6	1998.2
17.5°	2170.4	2158.0	2135.9	2135.9	2113.8	2101.5	2072.0	2032.8	2008.1	1981.1	1966.4
20°	2143.2	2131.0	2106.4	2104.0	2084.2	2067.1	2035.1	1995.9	1971.2	1941.8	1929.5
22.5°	2086.8	2072.0	2049.9	2047.5	2027.8	2018.0	1983.5	1944.2	1919.6	1890.1	1880.2
25°	2003.2	1995.9	1973.8	1971.2	1954.0	1941.8	1912.2	1875.4	1853.2	1823.8	1813.9
27.5°	1904.9	1897.5	1875.4	1875.4	1855.8	1848.4	1821.2	1786.9	1769.8	1742.6	1730.4
30°	1786.9	1777.1	1764.8	1762.4	1745.1	1737.8	1713.1	1681.2	1664.0	1641.9	1637.0
32.5°	1646.8	1639.4	1632.0	1629.6	1612.4	1605.0	1587.8	1555.9	1541.1	1521.5	1514.1
35°	1484.6	1479.6	1472.2	1469.9	1462.5	1455.1	1437.9	1413.2	1405.9	1391.1	1383.8
37.5°	1297.8	1302.8	1297.8	1297.8	1290.4	1292.9	1278.1	1263.4	1256.0	1246.1	1241.2
40°	1096.2	1106.0	1113.4	1113.4	1111.0	1120.8	1118.4	1106.0	1103.6	1098.6	1096.2
42.5°	892.2	897.1	911.9	921.8	919.2	943.9	946.2	956.1	963.5	958.6	961.0
45°	678.4	693.1	712.8	722.6	734.9	766.9	784.1	803.8	821.0	830.8	828.4
47.5°	489.1	506.4	528.5	543.2	565.4	604.6	648.9	673.5	698.0	710.4	722.6
50°	354.0	371.1	398.1	420.2	435.0	489.1	535.9	567.8	594.9	612.0	624.2
52.5°	248.2	267.9	297.4	317.1	339.2	390.8	444.9	481.8	511.2	533.4	545.6
55°	172.0	194.1	221.2	240.9	265.5	319.5	371.1	410.5	442.4	462.1	476.9
57.5°	120.5	140.1	167.1	184.4	208.9	260.5	312.1	351.5	383.4	403.1	420.2
60°	81.1	100.8	127.8	145.0	164.6	216.2	263.0	304.8	334.2	354.0	371.1
62.5°	56.5	73.8	100.8	118.0	135.1	179.4	223.6	260.5	290.0	312.1	326.9
65°	44.2	59.0	81.1	95.9	113.1	149.9	186.8	218.8	248.2	270.4	280.2
67.5°	32.0	46.8	63.9	76.2	88.5	120.5	152.4	177.0	204.0	221.2	233.5
70°	22.1	32.0	46.8	56.5	66.4	91.0	115.5	137.6	157.2	169.6	179.4
72.5°	17.2	22.1	32.0	39.4	46.8	63.9	83.6	100.8	115.5	125.4	135.1
75°	9.9	14.8	22.1	27.0	32.0	44.2	56.5	68.9	78.6	86.0	91.0
77.5°	4.9	7.4	12.2	14.8	19.6	27.0	36.9	44.2	51.6	56.5	61.5
80°	4.9	4.9	7.4	7.4	9.9	14.8	19.6	24.6	29.5	34.4	36.9
82.5°	2.5	2.5	4.9	4.9	4.9	7.4	9.9	14.8	17.2	19.6	22.1
85°	2.5	2.5	2.5	2.5	2.5	4.9	4.9	7.4	9.9	12.2	12.2
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	4.9	4.9	4.9	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



TEST NUMBER: P252584

CATALOG NUMBER: LE_6B30D010 EC6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
2.5°	2118.8	2123.6	2121.1	2126.1	2118.8	2116.2	2121.1	2113.8
5°	2091.6	2094.1	2091.6	2091.6	2086.8	2081.9	2086.8	2079.4
7.5°	2049.9	2049.9	2042.5	2042.5	2032.8	2027.8	2027.8	2025.4
10°	2015.5	2008.1	2000.8	2003.2	1988.5	1983.5	1981.1	1978.6
12.5°	1998.2	1993.4	1981.1	1981.1	1966.4	1961.4	1959.0	1956.5
15°	1978.6	1968.8	1959.0	1956.5	1944.2	1939.2	1936.9	1931.9
17.5°	1944.2	1936.9	1924.5	1924.5	1912.2	1909.8	1904.9	1902.4
20°	1907.4	1897.5	1887.6	1887.6	1872.9	1872.9	1865.5	1868.0
22.5°	1855.8	1848.4	1838.5	1838.5	1826.2	1823.8	1816.4	1813.9
25°	1794.2	1784.5	1777.1	1774.6	1764.8	1759.9	1757.4	1752.5
27.5°	1713.1	1705.8	1698.4	1693.5	1681.2	1678.8	1671.4	1673.9
30°	1612.4	1607.5	1605.0	1600.1	1585.4	1580.4	1580.4	1573.0
32.5°	1501.8	1494.4	1489.5	1482.1	1469.9	1467.4	1460.0	1462.5
35°	1366.6	1356.8	1349.4	1351.9	1337.1	1334.6	1329.8	1332.1
37.5°	1226.5	1216.6	1206.9	1204.4	1192.1	1192.1	1184.8	1184.8
40°	1081.5	1071.6	1066.8	1066.8	1052.0	1054.5	1047.1	1044.6
42.5°	951.2	941.4	938.9	936.5	929.1	926.6	919.2	921.8
45°	828.4	825.9	825.9	821.0	813.6	811.1	813.6	813.6
47.5°	720.1	722.6	720.1	720.1	715.2	720.1	715.2	717.8
50°	629.2	634.1	634.1	634.1	631.6	634.1	634.1	636.6
52.5°	553.0	560.4	558.0	560.4	558.0	562.9	560.4	562.9
55°	486.6	491.6	494.0	496.5	496.5	496.5	496.5	496.5
57.5°	425.2	432.6	435.0	437.5	437.5	442.4	437.5	437.5
60°	376.0	383.4	385.9	388.4	388.4	390.8	385.9	388.4
62.5°	331.9	339.2	339.2	341.6	341.6	341.6	336.8	339.2
65°	287.6	290.0	292.5	292.5	290.0	290.0	287.6	290.0
67.5°	238.4	240.9	238.4	238.4	236.0	236.0	231.0	233.5
70°	184.4	184.4	186.8	184.4	181.9	184.4	181.9	179.4
72.5°	137.6	137.6	137.6	135.1	135.1	132.8	135.1	135.1
75°	93.4	93.4	95.9	95.9	95.9	95.9	93.4	93.4
77.5°	61.5	61.5	61.5	61.5	63.9	61.5	61.5	61.5
80°	39.4	39.4	41.8	41.8	39.4	39.4	39.4	39.4
82.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
85°	14.8	14.8	14.8	14.8	12.2	12.2	12.2	12.2
87.5°	7.4	7.4	7.4	7.4	7.4	7.4	4.9	4.9
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)