

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: io LED

Report Number: P252412

Luminaire Tested: **LD6B50D010TE EU6B30509727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252412
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: io LED
Catalog Number: LD6B50D010TE EU6B30509727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3452.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

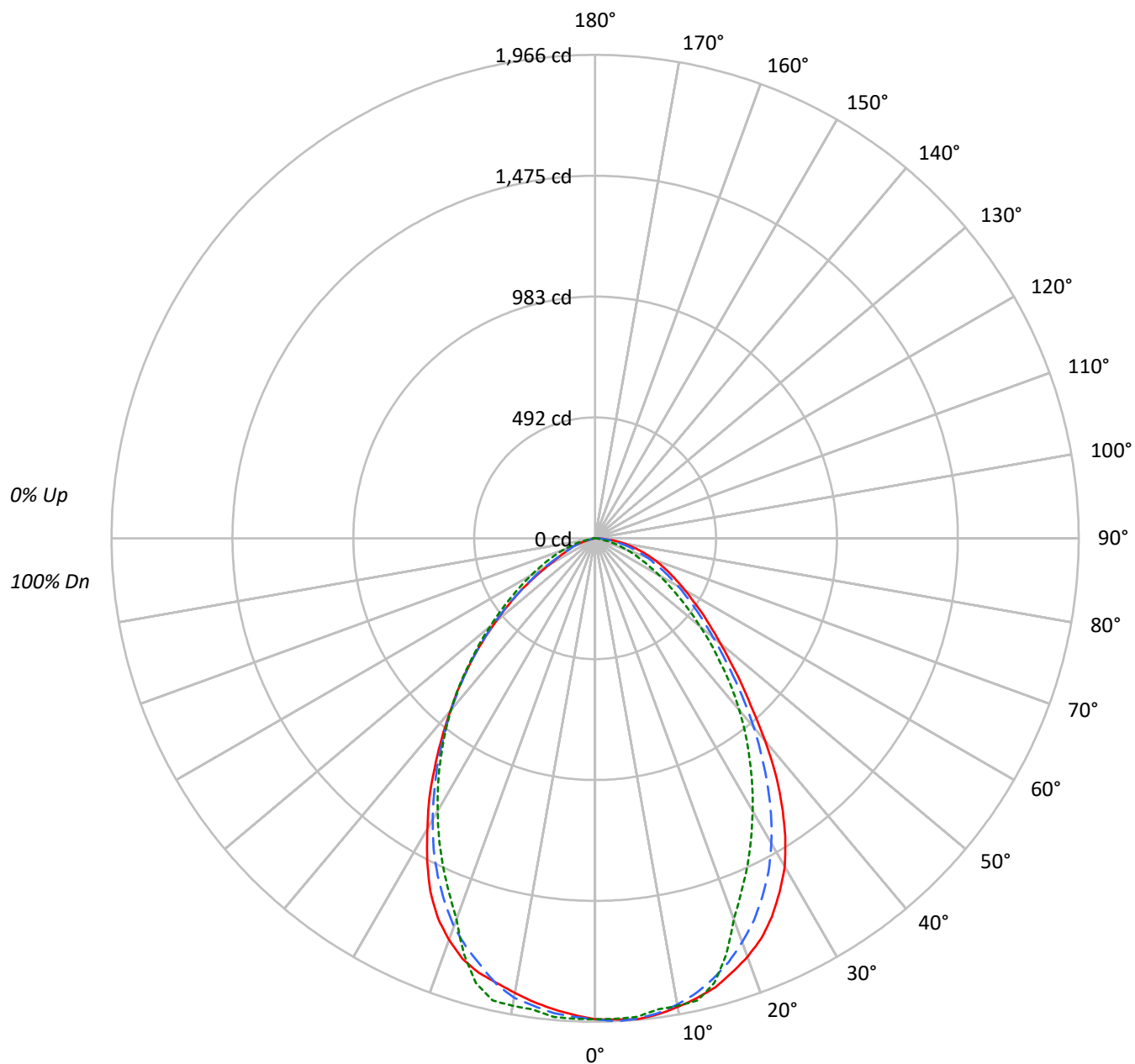
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	127604	127604	127604
5°	128596	127928	125930
10°	128228	127890	124359
15°	127648	126446	123528
20°	125740	114458	120630
25°	122331	105509	114104
30°	116157	96442	102762
35°	105401	87194	90436
40°	91510	77663	77884
45°	78046	66790	66089
50°	67546	56462	53367
55°	60386	47090	41312
60°	55024	39105	27845
65°	51375	32156	20779
70°	48947	26171	17435
75°	46104	18578	5772
80°	43882	9543	1916
85°	36155	5689	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	5.4
10°-20°	516.6	15.0
20°-30°	713.1	20.7
30°-40°	725.6	21.0
40°-50°	583.2	16.9
50°-60°	387.8	11.2
60°-70°	221.0	6.4
70°-80°	99.2	2.9
80°-90°	20.9	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°	1414.4	41.0
0°-40°	2140.0	62.0
0°-60°	3110.9	90.1
0°-90°	3452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3452.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1956	1956	1956	1956	1956	
5°	1964	1961	1953	1938	1923	186
15°	1890	1854	1872	1798	1829	532
25°	1699	1608	1466	1514	1585	779
35°	1323	1222	1095	1115	1136	822
45°	846	795	724	716	716	656
55°	531	495	414	368	363	477
65°	333	297	208	135	135	332
75°	183	152	74	30	23	195
85°	48	33	8	2	0	57
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°	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9
2.5°	1958.5	1968.6	1966.1	1963.6	1966.1	1963.6	1958.5	1958.5	1953.4	1953.4	1966.1
5°	1963.6	1968.6	1966.1	1963.6	1963.6	1966.1	1955.9	1955.9	1950.9	1948.3	1961.0
7.5°	1953.4	1961.0	1955.9	1955.9	1953.4	1955.9	1945.8	1945.8	1938.2	1935.6	1948.3
10°	1935.6	1945.8	1940.7	1940.7	1940.7	1935.6	1930.5	1928.0	1920.4	1917.8	1925.4
12.5°	1915.3	1922.9	1920.4	1915.3	1915.3	1915.3	1905.1	1902.6	1892.4	1887.3	1895.0
15°	1889.9	1895.0	1892.4	1889.9	1884.8	1884.8	1874.6	1869.6	1859.4	1849.2	1854.3
17.5°	1851.8	1859.4	1854.3	1851.8	1844.2	1844.2	1834.0	1828.9	1813.7	1803.5	1806.1
20°	1811.1	1813.7	1811.1	1806.1	1798.4	1795.9	1785.7	1775.6	1762.9	1750.2	1747.6
22.5°	1762.9	1765.4	1757.8	1752.7	1745.1	1742.6	1729.9	1722.2	1701.9	1686.7	1684.1
25°	1699.4	1701.9	1701.9	1689.2	1684.1	1679.1	1666.4	1653.7	1635.9	1615.5	1607.9
27.5°	1623.2	1630.8	1625.7	1613.0	1602.8	1600.3	1587.6	1577.4	1554.6	1536.8	1526.6
30°	1541.9	1539.3	1536.8	1529.2	1513.9	1511.4	1498.7	1486.0	1468.2	1445.4	1432.7
32.5°	1437.7	1437.7	1435.2	1427.6	1412.3	1407.3	1397.1	1381.9	1361.5	1343.8	1331.0
35°	1323.4	1326.0	1323.4	1308.2	1298.0	1292.9	1287.9	1270.1	1252.3	1232.0	1221.8
37.5°	1204.0	1196.4	1199.0	1186.3	1173.6	1178.6	1163.4	1155.8	1135.5	1120.2	1110.1
40°	1074.5	1079.6	1069.4	1064.3	1056.7	1049.1	1049.1	1036.4	1026.2	1008.4	1003.4
42.5°	947.5	955.1	952.6	947.5	937.3	939.9	927.2	922.1	909.4	901.8	894.1
45°	845.9	845.9	845.9	840.8	838.3	833.2	825.6	817.9	810.3	800.2	795.1
47.5°	746.8	746.8	749.4	744.3	739.2	736.6	731.6	731.6	718.9	708.7	703.6
50°	665.5	665.5	665.5	660.4	655.4	655.4	650.3	645.2	637.6	630.0	624.9
52.5°	591.9	591.9	591.9	586.8	584.2	581.7	579.2	576.6	566.5	561.4	556.3
55°	530.9	528.4	528.4	525.8	520.7	520.7	518.2	513.1	505.5	497.9	495.3
57.5°	469.9	472.5	469.9	469.9	464.9	464.9	459.8	457.2	449.6	444.5	439.4
60°	421.7	421.7	421.7	419.1	414.0	416.6	411.5	409.0	401.3	393.7	388.6
62.5°	373.4	375.9	375.9	373.4	368.3	368.3	365.8	363.2	355.6	348.0	340.4
65°	332.8	332.8	332.8	330.2	327.7	327.7	325.1	322.6	315.0	304.8	297.2
67.5°	294.7	292.1	292.1	292.1	289.6	287.0	284.5	282.0	274.3	266.7	256.6
70°	256.6	256.6	256.6	254.0	248.9	251.5	248.9	246.4	238.8	231.2	223.5
72.5°	221.0	221.0	218.5	215.9	215.9	213.4	213.4	210.8	203.2	193.1	185.4
75°	182.9	182.9	182.9	182.9	177.8	180.4	175.3	172.7	167.7	160.0	152.4
77.5°	149.9	149.9	149.9	147.3	144.8	144.8	142.2	139.7	132.1	127.0	116.8
80°	116.8	116.8	116.8	116.8	114.3	111.8	109.2	106.7	101.6	94.0	86.4
82.5°	86.4	86.4	83.8	83.8	83.8	81.3	78.7	76.2	71.1	66.0	61.0
85°	48.3	50.8	50.8	45.7	48.3	45.7	45.7	40.6	40.6	35.6	33.0
87.5°	17.8	15.2	15.2	15.2	15.2	15.2	15.2	12.7	12.7	12.7	10.2
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°	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9
2.5°	1955.9	1953.4	1963.6	1963.6	1948.3	1955.9	1958.5	1953.4	1953.4	1955.9	1948.3
5°	1950.9	1945.8	1955.9	1958.5	1943.2	1950.9	1953.4	1948.3	1950.9	1953.4	1943.2
7.5°	1933.1	1933.1	1940.7	1943.2	1928.0	1935.6	1935.6	1930.5	1933.1	1933.1	1925.4
10°	1915.3	1907.7	1915.3	1915.3	1902.6	1905.1	1910.2	1907.7	1917.8	1930.5	1930.5
12.5°	1882.3	1874.6	1887.3	1887.3	1879.7	1889.9	1902.6	1910.2	1920.4	1925.4	1910.2
15°	1841.6	1844.2	1867.0	1884.8	1877.2	1892.4	1905.1	1900.0	1887.3	1872.1	1849.2
17.5°	1788.3	1780.7	1801.0	1811.1	1801.0	1806.1	1816.2	1806.1	1785.7	1773.0	1742.6
20°	1727.3	1707.0	1707.0	1701.9	1684.1	1684.1	1681.6	1663.8	1656.2	1648.6	1635.9
22.5°	1658.7	1635.9	1628.2	1613.0	1597.8	1595.2	1587.6	1569.8	1559.7	1554.6	1539.3
25°	1580.0	1559.7	1547.0	1531.7	1508.9	1503.8	1496.2	1478.4	1473.3	1465.7	1453.0
27.5°	1498.7	1473.3	1455.5	1440.3	1420.0	1417.4	1402.2	1389.5	1379.3	1374.2	1364.1
30°	1404.7	1376.8	1364.1	1343.8	1328.5	1323.4	1310.7	1292.9	1285.3	1280.2	1272.6
32.5°	1300.6	1277.7	1265.0	1247.2	1226.9	1229.4	1214.2	1199.0	1193.9	1188.8	1181.2
35°	1199.0	1176.1	1160.9	1145.6	1132.9	1127.8	1117.7	1105.0	1097.4	1094.8	1089.7
37.5°	1087.2	1069.4	1056.7	1041.5	1031.3	1026.2	1021.1	1008.4	1003.4	1003.4	993.2
40°	978.0	962.7	952.6	944.9	932.2	929.7	924.6	917.0	914.5	911.9	904.3
42.5°	878.9	858.6	851.0	845.9	838.3	833.2	830.6	825.6	823.0	820.5	812.9
45°	784.9	767.1	759.5	754.4	746.8	744.3	741.7	734.1	729.0	723.9	721.4
47.5°	693.5	680.8	678.2	665.5	660.4	655.4	650.3	645.2	642.7	640.1	630.0
50°	614.7	607.1	594.4	586.8	581.7	579.2	569.0	561.4	558.8	556.3	548.7
52.5°	543.6	533.4	525.8	513.1	510.6	505.5	500.4	490.3	485.2	482.6	475.0
55°	480.1	472.5	462.3	452.2	444.5	442.0	434.4	424.2	419.1	414.0	409.0
57.5°	426.7	414.0	403.9	393.7	388.6	381.0	373.4	368.3	360.7	353.1	345.5
60°	375.9	365.8	353.1	342.9	337.8	332.8	322.6	315.0	307.4	299.7	292.1
62.5°	327.7	317.5	304.8	294.7	289.6	284.5	274.3	266.7	259.1	251.5	241.3
65°	284.5	274.3	264.2	254.0	248.9	243.9	233.7	223.5	215.9	208.3	198.1
67.5°	248.9	236.2	226.1	215.9	210.8	205.8	195.6	188.0	177.8	170.2	160.0
70°	210.8	200.7	193.1	182.9	177.8	172.7	162.6	152.4	144.8	137.2	127.0
72.5°	177.8	165.1	157.5	147.3	142.2	139.7	129.5	121.9	114.3	104.1	96.5
75°	142.2	132.1	121.9	114.3	109.2	106.7	96.5	88.9	81.3	73.7	66.0
77.5°	109.2	101.6	91.4	83.8	78.7	76.2	66.0	58.4	50.8	45.7	38.1
80°	81.3	71.1	66.0	58.4	55.9	50.8	45.7	38.1	33.0	25.4	20.3
82.5°	55.9	48.3	43.2	38.1	35.6	33.0	27.9	22.9	17.8	15.2	12.7
85°	30.5	25.4	22.9	20.3	17.8	17.8	15.2	12.7	10.2	7.6	5.1
87.5°	10.2	7.6	7.6	7.6	7.6	5.1	5.1	5.1	2.5	2.5	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°	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9
2.5°	1953.4	1953.4	1953.4	1950.9	1950.9	1950.9	1948.3	1958.5	1948.3	1945.8	1953.4
5°	1950.9	1945.8	1945.8	1945.8	1945.8	1943.2	1940.7	1945.8	1938.2	1935.6	1935.6
7.5°	1935.6	1933.1	1933.1	1930.5	1928.0	1925.4	1922.9	1925.4	1917.8	1915.3	1915.3
10°	1938.2	1933.1	1933.1	1925.4	1920.4	1912.7	1905.1	1907.7	1897.5	1889.9	1889.9
12.5°	1907.7	1895.0	1887.3	1879.7	1874.6	1872.1	1861.9	1867.0	1856.9	1854.3	1854.3
15°	1839.1	1823.8	1811.1	1806.1	1806.1	1801.0	1793.4	1803.5	1798.4	1801.0	1813.7
17.5°	1732.4	1724.8	1717.2	1714.6	1717.2	1722.2	1727.3	1742.6	1742.6	1750.2	1762.9
20°	1638.4	1633.3	1638.4	1638.4	1641.0	1651.1	1661.3	1674.0	1679.1	1686.7	1704.5
22.5°	1547.0	1547.0	1552.0	1559.7	1557.1	1574.9	1577.4	1600.3	1600.3	1615.5	1630.8
25°	1458.1	1458.1	1463.1	1465.7	1470.8	1480.9	1491.1	1508.9	1513.9	1529.2	1541.9
27.5°	1371.7	1369.2	1369.2	1371.7	1376.8	1389.5	1394.6	1414.9	1422.5	1432.7	1445.4
30°	1275.2	1272.6	1277.7	1282.8	1280.2	1292.9	1300.6	1315.8	1320.9	1331.0	1341.2
32.5°	1183.7	1183.7	1183.7	1188.8	1188.8	1199.0	1199.0	1216.7	1216.7	1224.4	1234.5
35°	1089.7	1089.7	1092.3	1094.8	1097.4	1099.9	1102.4	1112.6	1115.1	1117.7	1122.8
37.5°	1000.8	998.3	1000.8	1000.8	995.7	1005.9	1005.9	1016.1	1008.4	1016.1	1018.6
40°	909.4	909.4	906.8	906.8	906.8	911.9	906.8	914.5	909.4	914.5	911.9
42.5°	815.4	815.4	810.3	815.4	812.9	812.9	812.9	817.9	810.3	815.4	817.9
45°	721.4	718.9	718.9	716.3	716.3	716.3	718.9	718.9	716.3	721.4	721.4
47.5°	630.0	627.4	627.4	627.4	627.4	630.0	622.3	627.4	622.3	622.3	622.3
50°	551.2	548.7	546.1	543.6	541.1	541.1	538.5	538.5	533.4	530.9	528.4
52.5°	475.0	472.5	467.4	467.4	464.9	462.3	454.7	454.7	447.1	444.5	444.5
55°	406.4	398.8	396.3	391.2	391.2	386.1	381.0	375.9	368.3	363.2	363.2
57.5°	342.9	335.3	330.2	327.7	325.1	320.1	309.9	307.4	297.2	294.7	292.1
60°	287.0	279.4	271.8	266.7	264.2	256.6	246.4	241.3	236.2	228.6	221.0
62.5°	233.7	226.1	215.9	213.4	208.3	200.7	193.1	185.4	180.4	172.7	167.7
65°	188.0	180.4	172.7	167.7	162.6	155.0	147.3	139.7	134.6	132.1	129.5
67.5°	152.4	142.2	134.6	132.1	127.0	121.9	114.3	111.8	106.7	106.7	106.7
70°	119.4	111.8	104.1	101.6	99.1	94.0	88.9	88.9	88.9	88.9	88.9
72.5°	88.9	83.8	76.2	73.7	71.1	68.6	63.5	66.0	63.5	63.5	63.5
75°	55.9	50.8	45.7	43.2	40.6	38.1	35.6	33.0	30.5	27.9	27.9
77.5°	30.5	25.4	22.9	20.3	20.3	17.8	15.2	15.2	12.7	12.7	12.7
80°	17.8	15.2	12.7	10.2	10.2	7.6	7.6	7.6	7.6	5.1	5.1
82.5°	10.2	7.6	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5
85°	5.1	5.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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



TEST NUMBER: P252412

CATALOG NUMBER: LD6B50D010TE EU6B30509727 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9
2.5°	1940.7	1948.3	1940.7	1948.3	1948.3	1948.3	1948.3	1940.7
5°	1928.0	1933.1	1925.4	1930.5	1933.1	1930.5	1930.5	1922.9
7.5°	1905.1	1910.2	1902.6	1910.2	1912.7	1910.2	1907.7	1902.6
10°	1882.3	1884.8	1877.2	1882.3	1887.3	1887.3	1884.8	1877.2
12.5°	1846.7	1854.3	1846.7	1851.8	1856.9	1859.4	1859.4	1851.8
15°	1806.1	1818.8	1813.7	1821.3	1828.9	1831.5	1831.5	1828.9
17.5°	1765.4	1778.1	1770.5	1783.2	1790.8	1795.9	1798.4	1793.4
20°	1707.0	1722.2	1717.2	1727.3	1737.5	1745.1	1745.1	1737.5
22.5°	1630.8	1651.1	1648.6	1656.2	1668.9	1671.4	1676.5	1671.4
25°	1547.0	1562.2	1559.7	1567.3	1582.5	1582.5	1585.1	1585.1
27.5°	1450.4	1465.7	1463.1	1468.2	1478.4	1480.9	1483.5	1478.4
30°	1346.3	1353.9	1353.9	1361.5	1369.2	1371.7	1371.7	1364.1
32.5°	1232.0	1242.1	1247.2	1244.7	1252.3	1257.4	1254.8	1254.8
35°	1127.8	1130.4	1132.9	1135.5	1138.0	1143.1	1138.0	1135.5
37.5°	1016.1	1023.7	1018.6	1023.7	1028.8	1026.2	1023.7	1023.7
40°	914.5	917.0	911.9	917.0	919.5	919.5	919.5	914.5
42.5°	812.9	817.9	812.9	817.9	817.9	817.9	817.9	815.4
45°	711.2	716.3	716.3	718.9	718.9	716.3	716.3	716.3
47.5°	617.3	622.3	617.3	622.3	624.9	619.8	619.8	619.8
50°	528.4	525.8	525.8	528.4	528.4	528.4	528.4	525.8
52.5°	436.9	439.4	439.4	439.4	442.0	439.4	442.0	442.0
55°	358.2	358.2	358.2	360.7	358.2	358.2	360.7	363.2
57.5°	287.0	284.5	282.0	282.0	284.5	282.0	282.0	282.0
60°	221.0	218.5	215.9	215.9	215.9	215.9	215.9	213.4
62.5°	165.1	165.1	165.1	167.7	167.7	167.7	167.7	170.2
65°	132.1	132.1	132.1	132.1	132.1	132.1	132.1	134.6
67.5°	106.7	106.7	106.7	109.2	109.2	109.2	109.2	109.2
70°	88.9	88.9	91.4	88.9	91.4	91.4	91.4	91.4
72.5°	61.0	61.0	61.0	61.0	61.0	58.4	61.0	58.4
75°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	22.9
77.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	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)