

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: P252517

Luminaire Tested: **LD6B50D010TE EU6B30509730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30509730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3388.0 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

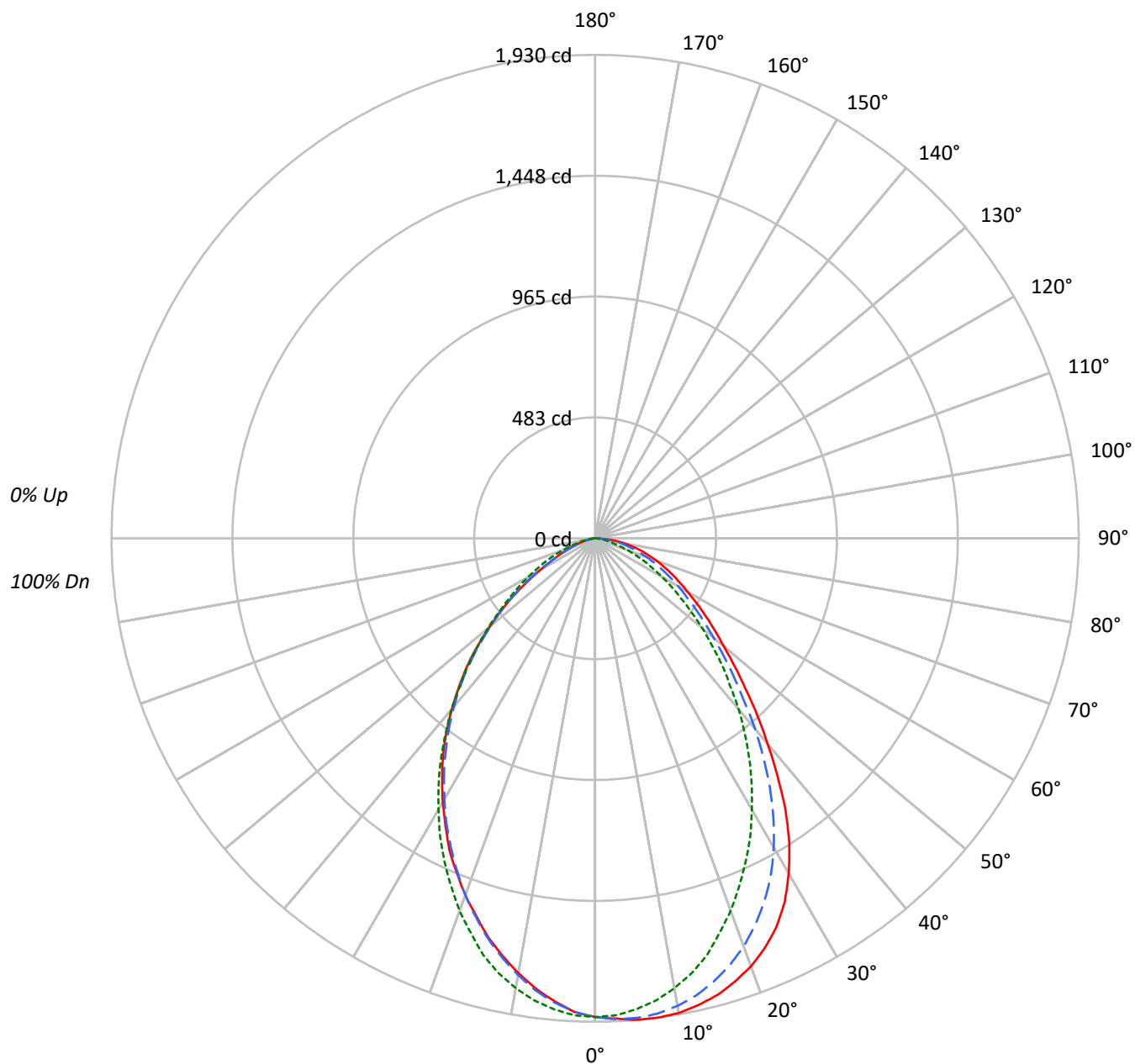
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	124694	124694	124694
5°	126389	123606	121523
10°	127499	120815	116774
15°	127479	116368	111343
20°	126247	109848	105238
25°	123253	102428	98987
30°	116390	94189	91590
35°	105505	85418	84359
40°	91110	75968	75738
45°	78129	66135	66624
50°	67901	56584	55772
55°	60989	47704	44690
60°	55415	40175	32907
65°	52039	33190	24175
70°	49633	25828	17721
75°	47515	18729	12049
80°	44897	12962	7965
85°	39748	7935	3967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	5.3
10°-20°	489.7	14.5
20°-30°	679.8	20.1
30°-40°	704.1	20.8
40°-50°	578.6	17.1
50°-60°	397.7	11.7
60°-70°	228.6	6.7
70°-80°	105.1	3.1
80°-90°	25.6	0.8
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°	1348.3	39.8
0°-40°	2052.4	60.6
0°-60°	3028.7	89.4
0°-90°	3388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3388.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1911	1911	1911	1911	1911	
5°	1930	1922	1887	1861	1856	184
15°	1887	1832	1723	1654	1648	532
25°	1712	1598	1423	1362	1375	783
35°	1325	1216	1072	1041	1059	821
45°	847	783	717	709	722	660
55°	536	486	419	396	393	483
65°	337	295	215	151	157	336
75°	188	149	74	48	48	199
85°	53	37	11	5	5	60
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°	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3
2.5°	1919.3	1935.2	1924.6	1922.0	1927.3	1927.3	1927.3	1919.3	1924.6	1916.6	1922.0
5°	1929.9	1943.2	1932.6	1927.3	1932.6	1935.2	1927.3	1922.0	1929.9	1919.3	1922.0
7.5°	1929.9	1943.2	1932.6	1929.9	1932.6	1932.6	1929.9	1919.3	1924.6	1914.0	1914.0
10°	1924.6	1935.2	1924.6	1919.3	1922.0	1919.3	1919.3	1906.0	1908.7	1895.4	1895.4
12.5°	1908.7	1922.0	1908.7	1903.4	1903.4	1903.4	1895.4	1884.8	1887.4	1871.5	1868.9
15°	1887.4	1898.1	1884.8	1879.5	1879.5	1876.8	1871.5	1855.6	1855.6	1839.7	1831.7
17.5°	1855.6	1866.2	1855.6	1847.6	1845.0	1839.7	1834.3	1818.4	1813.1	1794.5	1786.6
20°	1818.4	1826.4	1815.8	1807.8	1802.5	1797.2	1786.6	1770.6	1765.3	1746.7	1733.5
22.5°	1770.6	1781.3	1765.3	1757.4	1752.1	1744.1	1733.5	1717.5	1709.6	1685.7	1669.8
25°	1712.2	1717.5	1704.3	1696.3	1685.7	1680.4	1672.4	1651.2	1643.2	1616.7	1598.1
27.5°	1637.9	1643.2	1627.3	1622.0	1608.7	1603.4	1592.8	1574.2	1563.6	1537.0	1518.4
30°	1545.0	1550.3	1539.7	1531.7	1521.1	1510.5	1502.5	1483.9	1468.0	1441.5	1425.5
32.5°	1441.5	1449.4	1438.8	1428.2	1409.6	1412.3	1399.0	1380.4	1367.1	1343.2	1324.7
35°	1324.7	1330.0	1316.7	1314.0	1303.4	1292.8	1279.5	1266.3	1258.3	1231.7	1215.8
37.5°	1194.6	1207.9	1194.6	1184.0	1178.7	1170.7	1162.7	1144.1	1138.8	1122.9	1101.7
40°	1069.8	1077.8	1069.8	1059.2	1051.2	1051.2	1040.6	1030.0	1016.7	1000.8	992.8
42.5°	958.3	953.0	950.4	945.0	934.4	931.8	929.1	915.8	907.9	892.0	878.7
45°	846.8	849.5	844.2	841.5	833.6	828.2	822.9	812.3	809.7	793.7	783.1
47.5°	753.9	751.3	746.0	746.0	740.6	735.3	730.0	722.1	719.4	706.1	695.5
50°	669.0	671.6	669.0	666.3	658.3	655.7	650.4	645.1	639.8	626.5	615.9
52.5°	599.9	597.3	594.6	594.6	586.7	584.0	578.7	573.4	568.1	554.8	546.9
55°	536.2	536.2	533.6	530.9	523.0	520.3	517.7	512.3	504.4	493.8	485.8
57.5°	477.8	477.8	475.2	472.5	467.2	467.2	461.9	456.6	451.3	440.7	430.1
60°	424.7	427.4	424.7	422.1	416.8	416.8	414.1	406.2	403.5	390.2	382.3
62.5°	379.6	379.6	379.6	377.0	374.3	369.0	369.0	361.0	355.7	347.8	337.1
65°	337.1	337.1	337.1	334.5	329.2	326.5	323.9	318.6	313.2	305.3	294.7
67.5°	297.3	297.3	297.3	294.7	289.4	286.7	284.0	281.4	273.4	265.5	254.8
70°	260.2	260.2	257.5	254.8	252.2	249.5	246.9	241.6	236.3	225.6	217.7
72.5°	223.0	223.0	223.0	217.7	215.0	215.0	209.7	207.1	201.8	191.1	183.2
75°	188.5	185.8	185.8	183.2	180.5	177.9	175.2	172.6	164.6	159.3	148.7
77.5°	154.0	154.0	151.3	148.7	148.7	146.0	143.4	138.0	135.4	127.4	119.5
80°	119.5	119.5	119.5	119.5	116.8	114.1	114.1	108.8	106.2	98.2	92.9
82.5°	90.3	87.6	87.6	87.6	84.9	82.3	82.3	79.6	77.0	71.7	66.4
85°	53.1	50.4	50.4	50.4	47.8	47.8	45.1	45.1	42.5	37.2	37.2
87.5°	15.9	15.9	18.6	18.6	15.9	15.9	15.9	15.9	15.9	13.3	13.3
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°	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3
2.5°	1916.6	1924.6	1914.0	1911.3	1922.0	1916.6	1914.0	1908.7	1911.3	1906.0	1898.1
5°	1914.0	1924.6	1911.3	1903.4	1916.6	1908.7	1903.4	1898.1	1898.1	1887.4	1882.1
7.5°	1906.0	1911.3	1898.1	1890.1	1898.1	1890.1	1884.8	1876.8	1874.2	1860.9	1852.9
10°	1884.8	1890.1	1874.2	1863.6	1871.5	1860.9	1852.9	1845.0	1839.7	1823.7	1813.1
12.5°	1855.6	1858.2	1839.7	1826.4	1831.7	1823.7	1810.5	1799.8	1794.5	1778.6	1765.3
15°	1815.8	1818.4	1797.2	1778.6	1783.9	1773.3	1757.4	1746.7	1738.8	1722.9	1704.3
17.5°	1768.0	1765.3	1741.4	1722.9	1725.5	1712.2	1696.3	1680.4	1669.8	1651.2	1637.9
20°	1714.9	1706.9	1680.4	1659.1	1661.8	1645.9	1627.3	1611.4	1598.1	1582.2	1563.6
22.5°	1648.5	1637.9	1614.0	1587.5	1590.1	1576.9	1550.3	1537.0	1523.8	1502.5	1486.6
25°	1576.9	1560.9	1537.0	1510.5	1510.5	1494.6	1473.3	1457.4	1444.1	1422.9	1404.3
27.5°	1491.9	1483.9	1452.1	1430.8	1428.2	1412.3	1393.7	1375.1	1359.2	1340.6	1322.0
30°	1399.0	1385.7	1361.8	1337.9	1332.6	1319.4	1300.8	1279.5	1268.9	1250.3	1234.4
32.5°	1300.8	1287.5	1260.9	1237.1	1234.4	1223.8	1207.9	1186.6	1176.0	1162.7	1152.1
35°	1189.3	1184.0	1157.4	1138.8	1138.8	1128.2	1112.3	1093.7	1085.7	1072.5	1059.2
37.5°	1083.1	1075.1	1051.2	1035.3	1035.3	1022.0	1006.1	998.1	990.2	979.6	971.6
40°	971.6	966.3	947.7	931.8	934.4	923.8	913.2	902.6	897.3	892.0	884.0
42.5°	868.1	862.8	849.5	836.2	836.2	828.2	817.6	809.7	804.4	796.4	793.7
45°	775.2	767.2	756.6	743.3	743.3	735.3	730.0	724.7	722.1	716.8	708.8
47.5°	684.9	679.6	669.0	655.7	655.7	655.7	645.1	637.1	637.1	631.8	629.1
50°	607.9	599.9	592.0	581.4	581.4	576.1	568.1	560.1	560.1	557.5	552.2
52.5°	536.2	530.9	520.3	509.7	509.7	504.4	496.4	493.8	491.1	483.1	480.5
55°	475.2	469.9	461.9	448.6	446.0	443.3	435.4	430.1	427.4	419.4	419.4
57.5°	419.4	414.1	400.8	392.9	390.2	384.9	377.0	371.6	369.0	363.7	358.4
60°	371.6	363.7	353.1	342.4	339.8	334.5	326.5	321.2	318.6	307.9	302.6
62.5°	326.5	318.6	307.9	297.3	294.7	289.4	278.7	273.4	268.1	257.5	252.2
65°	284.0	276.1	265.5	254.8	249.5	246.9	236.3	228.3	223.0	215.0	204.4
67.5°	244.2	236.3	225.6	212.4	212.4	204.4	196.4	188.5	180.5	172.6	164.6
70°	207.1	199.1	188.5	177.9	175.2	169.9	161.9	151.3	146.0	135.4	127.4
72.5°	172.6	164.6	154.0	143.4	140.7	135.4	127.4	116.8	108.8	100.9	92.9
75°	140.7	132.7	122.1	114.1	111.5	106.2	98.2	87.6	79.6	74.3	66.4
77.5°	111.5	103.5	95.6	87.6	84.9	79.6	71.7	66.4	58.4	53.1	45.1
80°	84.9	79.6	71.7	66.4	63.7	58.4	53.1	45.1	39.8	34.5	31.9
82.5°	61.1	55.7	50.4	42.5	42.5	37.2	34.5	29.2	23.9	21.2	18.6
85°	34.5	29.2	26.5	23.9	21.2	21.2	18.6	15.9	13.3	10.6	10.6
87.5°	10.6	10.6	8.0	8.0	8.0	8.0	5.3	5.3	5.3	5.3	5.3
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°	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3
2.5°	1898.1	1900.7	1895.4	1900.7	1895.4	1898.1	1892.8	1898.1	1892.8	1898.1	1887.4
5°	1879.5	1879.5	1871.5	1876.8	1871.5	1874.2	1863.6	1866.2	1860.9	1866.2	1855.6
7.5°	1847.6	1850.3	1837.0	1842.3	1834.3	1834.3	1826.4	1829.0	1821.1	1823.7	1815.8
10°	1810.5	1807.8	1794.5	1799.8	1789.2	1789.2	1781.3	1781.3	1770.6	1773.3	1762.7
12.5°	1757.4	1754.7	1738.8	1744.1	1733.5	1733.5	1725.5	1725.5	1714.9	1720.2	1709.6
15°	1696.3	1693.7	1677.7	1680.4	1669.8	1669.8	1659.1	1661.8	1653.8	1659.1	1648.5
17.5°	1627.3	1624.6	1608.7	1611.4	1598.1	1600.7	1592.8	1590.1	1584.8	1587.5	1579.5
20°	1555.6	1550.3	1534.4	1537.0	1531.7	1523.8	1518.4	1521.1	1515.8	1521.1	1513.1
22.5°	1481.3	1470.7	1457.4	1457.4	1452.1	1452.1	1444.1	1449.4	1438.8	1446.8	1441.5
25°	1396.3	1388.4	1377.8	1383.1	1372.4	1372.4	1364.5	1367.1	1361.8	1367.1	1361.8
27.5°	1314.0	1308.7	1292.8	1298.1	1290.2	1292.8	1284.8	1287.5	1284.8	1290.2	1284.8
30°	1226.4	1223.8	1213.2	1213.2	1210.5	1207.9	1205.2	1205.2	1202.5	1210.5	1205.2
32.5°	1144.1	1136.2	1125.6	1133.5	1120.3	1128.2	1122.9	1128.2	1122.9	1128.2	1125.6
35°	1059.2	1056.5	1043.3	1045.9	1043.3	1043.3	1040.6	1040.6	1040.6	1048.6	1048.6
37.5°	968.9	966.3	958.3	961.0	955.7	953.0	953.0	958.3	958.3	963.6	963.6
40°	881.3	884.0	876.0	876.0	873.4	873.4	873.4	878.7	876.0	881.3	878.7
42.5°	793.7	793.7	785.8	788.4	785.8	788.4	788.4	793.7	793.7	796.4	793.7
45°	711.4	711.4	708.8	711.4	706.1	708.8	706.1	711.4	708.8	711.4	711.4
47.5°	629.1	629.1	629.1	626.5	626.5	626.5	626.5	626.5	623.8	629.1	626.5
50°	552.2	554.8	552.2	552.2	549.5	552.2	549.5	549.5	544.2	546.9	546.9
52.5°	483.1	483.1	477.8	477.8	477.8	475.2	475.2	475.2	472.5	472.5	467.2
55°	416.8	416.8	411.5	411.5	408.8	406.2	403.5	403.5	395.5	395.5	387.6
57.5°	355.7	353.1	345.1	345.1	339.8	337.1	334.5	331.8	326.5	321.2	318.6
60°	300.0	294.7	289.4	286.7	281.4	276.1	270.8	265.5	260.2	257.5	254.8
62.5°	246.9	238.9	233.6	231.0	225.6	217.7	212.4	207.1	201.8	199.1	193.8
65°	199.1	191.1	183.2	180.5	175.2	169.9	161.9	156.6	151.3	148.7	148.7
67.5°	156.6	148.7	138.0	138.0	132.7	127.4	122.1	116.8	114.1	116.8	116.8
70°	116.8	111.5	103.5	100.9	95.6	90.3	87.6	87.6	87.6	90.3	87.6
72.5°	87.6	79.6	74.3	71.7	69.0	66.4	66.4	66.4	63.7	66.4	66.4
75°	61.1	55.7	50.4	50.4	47.8	47.8	47.8	47.8	47.8	47.8	47.8
77.5°	42.5	37.2	34.5	34.5	34.5	31.9	31.9	31.9	31.9	31.9	31.9
80°	26.5	26.5	23.9	23.9	21.2	21.2	21.2	21.2	21.2	21.2	21.2
82.5°	15.9	15.9	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
85°	8.0	8.0	8.0	8.0	8.0	5.3	5.3	5.3	5.3	5.3	5.3
87.5°	2.7	2.7	2.7	2.7	2.7	5.3	5.3	5.3	5.3	5.3	5.3
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: P252517

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3
2.5°	1887.4	1895.4	1884.8	1892.8	1890.1	1887.4	1882.1	1892.8
5°	1855.6	1858.2	1847.6	1858.2	1855.6	1850.3	1845.0	1855.6
7.5°	1810.5	1818.4	1805.1	1815.8	1813.1	1807.8	1802.5	1813.1
10°	1760.0	1768.0	1757.4	1765.3	1765.3	1760.0	1752.1	1762.7
12.5°	1704.3	1709.6	1699.0	1709.6	1706.9	1701.6	1699.0	1706.9
15°	1643.2	1651.2	1640.6	1648.5	1645.9	1643.2	1640.6	1648.5
17.5°	1576.9	1584.8	1576.9	1584.8	1584.8	1576.9	1574.2	1579.5
20°	1510.5	1515.8	1507.8	1515.8	1513.1	1513.1	1507.8	1515.8
22.5°	1436.2	1444.1	1438.8	1444.1	1441.5	1441.5	1438.8	1444.1
25°	1361.8	1369.8	1361.8	1369.8	1367.1	1367.1	1361.8	1375.1
27.5°	1287.5	1292.8	1284.8	1295.5	1292.8	1287.5	1290.2	1292.8
30°	1207.9	1213.2	1207.9	1215.8	1215.8	1215.8	1210.5	1215.8
32.5°	1128.2	1136.2	1128.2	1136.2	1133.5	1133.5	1130.9	1136.2
35°	1048.6	1051.2	1045.9	1053.9	1053.9	1056.5	1051.2	1059.2
37.5°	966.3	968.9	966.3	968.9	974.2	966.3	971.6	974.2
40°	881.3	886.6	884.0	886.6	886.6	889.3	886.6	889.3
42.5°	796.4	801.7	796.4	804.4	801.7	801.7	804.4	804.4
45°	708.8	716.8	711.4	716.8	719.4	716.8	716.8	722.1
47.5°	626.5	631.8	629.1	631.8	631.8	631.8	631.8	637.1
50°	544.2	546.9	546.9	549.5	549.5	552.2	546.9	549.5
52.5°	461.9	467.2	467.2	467.2	464.6	467.2	467.2	467.2
55°	387.6	390.2	384.9	390.2	390.2	387.6	387.6	392.9
57.5°	315.9	315.9	315.9	315.9	315.9	313.2	315.9	315.9
60°	249.5	252.2	249.5	249.5	249.5	249.5	246.9	252.2
62.5°	193.8	193.8	191.1	193.8	193.8	193.8	196.4	196.4
65°	151.3	154.0	151.3	154.0	154.0	154.0	154.0	156.6
67.5°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5
70°	90.3	90.3	90.3	92.9	90.3	90.3	90.3	92.9
72.5°	66.4	66.4	66.4	66.4	66.4	66.4	69.0	69.0
75°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
77.5°	31.9	31.9	31.9	34.5	31.9	34.5	31.9	31.9
80°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
82.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
85°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
87.5°	5.3	5.3	5.3	5.3	2.7	2.7	2.7	2.7
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)