

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: P252725

Luminaire Tested: **LD6B50D010TE EU6B30509730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252725
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: io LED
Catalog Number: LD6B50D010TE EU6B30509730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 3725.0 lumens
Efficiency: N/A
Efficacy: 63.4 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

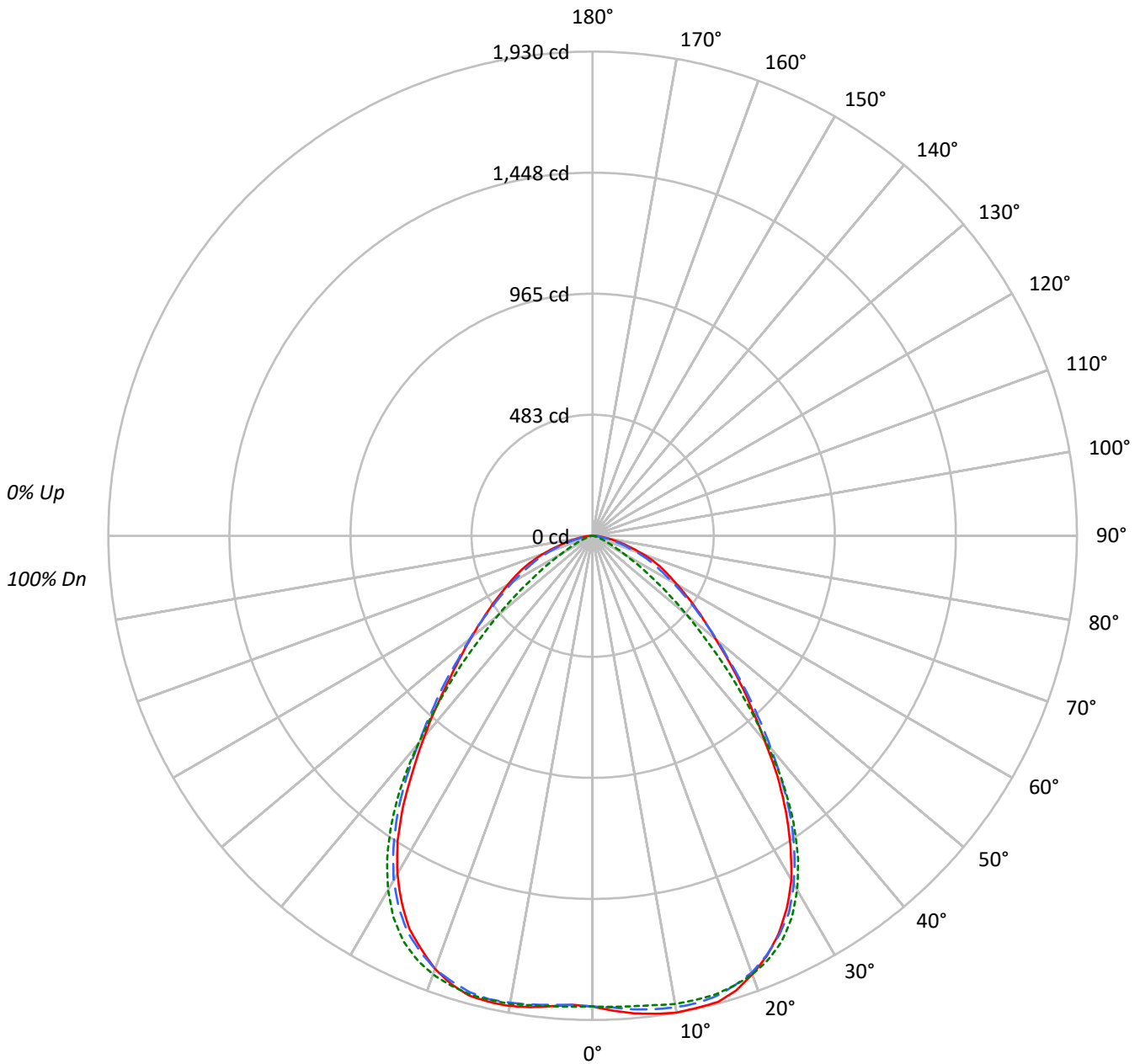
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	122437	122437	122437
5°	125164	123252	123252
10°	127844	125558	126088
15°	129985	127837	128195
20°	129191	129191	127532
25°	126118	128407	124397
30°	119381	122786	117181
35°	106978	111207	104859
40°	90880	92013	88623
45°	76902	70287	74208
50°	64927	49571	64125
55°	57065	32007	56462
60°	50575	19050	50914
65°	46713	11470	46713
70°	40515	6581	39504
75°	32114	4008	30122
80°	23932	3006	22956
85°	21858	2021	19837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	4.9
10°-20°	534.8	14.4
20°-30°	804.2	21.6
30°-40°	845.6	22.7
40°-50°	631.7	17.0
50°-60°	393.3	10.6
60°-70°	223.7	6.0
70°-80°	92.1	2.5
80°-90°	19.0	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°	1519.7	40.8
0°-40°	2365.3	63.5
0°-60°	3390.2	91.0
0°-90°	3725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3725.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1877	1877	1877	1877	1877	
5°	1911	1895	1882	1877	1882	183
15°	1924	1901	1893	1885	1898	541
25°	1752	1757	1784	1744	1728	802
35°	1343	1378	1396	1356	1317	834
45°	834	852	762	836	804	646
55°	502	491	281	483	496	451
65°	303	271	74	271	303	298
75°	127	101	16	98	120	138
85°	29	19	3	16	26	33
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°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1895.3	1892.7	1895.3	1890.0	1887.4	1887.4	1890.0	1884.7	1882.0	1884.7	1882.0
5°	1911.2	1905.9	1908.6	1905.9	1900.6	1900.6	1903.3	1895.3	1895.3	1898.0	1895.3
7.5°	1921.9	1921.9	1921.9	1916.6	1913.9	1911.2	1916.6	1908.6	1905.9	1905.9	1903.3
10°	1929.8	1927.2	1929.8	1924.5	1919.2	1916.6	1921.9	1916.6	1911.2	1916.6	1908.6
12.5°	1927.2	1927.2	1927.2	1924.5	1919.2	1916.6	1921.9	1913.9	1911.2	1913.9	1908.6
15°	1924.5	1916.6	1919.2	1916.6	1908.6	1908.6	1911.2	1903.3	1898.0	1905.9	1900.6
17.5°	1900.6	1895.3	1898.0	1892.7	1887.4	1884.7	1887.4	1884.7	1879.4	1884.7	1879.4
20°	1860.8	1860.8	1863.5	1858.2	1852.8	1850.2	1855.5	1850.2	1844.9	1852.8	1852.8
22.5°	1813.0	1813.0	1813.0	1810.4	1807.7	1807.7	1807.7	1805.1	1802.4	1807.7	1810.4
25°	1752.0	1749.3	1752.0	1754.6	1752.0	1749.3	1752.0	1752.0	1746.7	1757.3	1757.3
27.5°	1675.0	1675.0	1680.3	1677.6	1677.6	1675.0	1680.3	1680.3	1677.6	1685.6	1693.6
30°	1584.7	1579.4	1584.7	1584.7	1587.4	1587.4	1590.0	1590.0	1590.0	1598.0	1603.3
32.5°	1467.9	1470.6	1478.6	1475.9	1473.2	1481.2	1481.2	1486.5	1489.2	1494.5	1497.1
35°	1343.2	1345.8	1345.8	1348.5	1353.8	1348.5	1361.8	1359.1	1361.8	1372.4	1377.7
37.5°	1210.5	1202.5	1215.8	1210.5	1213.1	1213.1	1218.4	1221.1	1229.0	1242.3	1242.3
40°	1067.1	1069.8	1075.1	1077.7	1080.4	1080.4	1080.4	1088.3	1091.0	1106.9	1104.3
42.5°	942.3	942.3	947.7	950.3	950.3	950.3	950.3	958.3	963.6	968.9	974.2
45°	833.5	825.6	830.9	830.9	836.2	833.5	838.8	844.1	846.8	854.8	852.1
47.5°	730.0	727.3	730.0	732.6	730.0	732.6	735.3	738.0	740.6	740.6	740.6
50°	639.7	639.7	642.4	645.0	645.0	645.0	645.0	647.7	647.7	653.0	647.7
52.5°	565.4	568.1	568.1	565.4	568.1	568.1	570.7	570.7	568.1	568.1	560.1
55°	501.7	499.0	501.7	499.0	501.7	501.7	499.0	499.0	496.4	493.7	491.1
57.5°	440.6	440.6	440.6	440.6	438.0	440.6	438.0	435.3	435.3	430.0	422.1
60°	387.6	387.6	387.6	387.6	387.6	384.9	387.6	384.9	379.6	374.3	363.7
62.5°	342.4	339.8	342.4	339.8	339.8	337.1	337.1	334.5	329.2	323.8	313.2
65°	302.6	305.3	302.6	302.6	300.0	297.3	297.3	294.6	286.7	281.4	270.8
67.5°	260.1	257.5	257.5	257.5	254.8	254.8	254.8	249.5	244.2	236.3	225.6
70°	212.4	212.4	212.4	209.7	209.7	207.1	207.1	204.4	199.1	193.8	180.5
72.5°	167.2	167.2	167.2	161.9	164.6	161.9	161.9	156.6	154.0	146.0	138.0
75°	127.4	127.4	124.8	124.8	122.1	119.5	119.5	116.8	114.1	108.8	100.9
77.5°	92.9	92.9	92.9	90.3	87.6	84.9	84.9	82.3	79.6	77.0	71.7
80°	63.7	63.7	63.7	63.7	61.1	58.4	58.4	55.7	55.7	53.1	47.8
82.5°	42.5	42.5	42.5	42.5	39.8	39.8	39.8	37.2	34.5	34.5	29.2
85°	29.2	29.2	26.5	26.5	26.5	26.5	23.9	23.9	21.2	18.6	18.6
87.5°	15.9	15.9	15.9	15.9	13.3	13.3	13.3	13.3	10.6	10.6	8.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1890.0	1890.0	1887.4	1879.4	1882.0	1879.4	1882.0	1879.4	1871.4	1879.4	1871.4
5°	1900.6	1903.3	1898.0	1887.4	1890.0	1887.4	1887.4	1884.7	1876.7	1882.0	1876.7
7.5°	1911.2	1908.6	1905.9	1895.3	1898.0	1895.3	1895.3	1890.0	1882.0	1887.4	1879.4
10°	1916.6	1916.6	1911.2	1900.6	1900.6	1898.0	1900.6	1898.0	1887.4	1895.3	1890.0
12.5°	1916.6	1913.9	1913.9	1900.6	1903.3	1900.6	1903.3	1898.0	1890.0	1895.3	1892.7
15°	1908.6	1908.6	1905.9	1892.7	1895.3	1895.3	1898.0	1892.7	1884.7	1892.7	1887.4
17.5°	1892.7	1892.7	1890.0	1879.4	1884.7	1884.7	1887.4	1882.0	1874.1	1879.4	1879.4
20°	1860.8	1863.5	1863.5	1855.5	1860.8	1860.8	1863.5	1860.8	1858.2	1860.8	1855.5
22.5°	1823.6	1829.0	1829.0	1821.0	1826.3	1826.3	1834.3	1831.6	1826.3	1829.0	1826.3
25°	1767.9	1773.2	1778.5	1773.2	1778.5	1778.5	1786.5	1783.8	1778.5	1783.8	1775.9
27.5°	1704.2	1706.8	1712.2	1706.8	1714.8	1712.2	1720.1	1717.5	1709.5	1717.5	1714.8
30°	1613.9	1624.6	1632.5	1624.6	1632.5	1632.5	1637.8	1635.2	1632.5	1629.9	1629.9
32.5°	1513.1	1523.7	1523.7	1521.0	1526.3	1526.3	1529.0	1523.7	1521.0	1523.7	1526.3
35°	1388.3	1393.6	1398.9	1396.3	1398.9	1401.6	1398.9	1401.6	1393.6	1396.3	1396.3
37.5°	1252.9	1258.2	1258.2	1250.3	1255.6	1255.6	1250.3	1250.3	1245.0	1250.3	1239.7
40°	1109.6	1104.3	1106.9	1101.6	1096.3	1096.3	1093.7	1083.0	1077.7	1080.4	1083.0
42.5°	968.9	968.9	960.9	947.7	934.4	934.4	926.4	921.1	910.5	915.8	913.1
45°	849.4	836.2	825.6	804.3	796.4	791.0	777.8	764.5	759.2	761.8	759.2
47.5°	735.3	724.7	698.1	668.9	661.0	653.0	637.1	621.2	615.8	610.5	610.5
50°	639.7	621.2	592.0	560.1	546.8	533.6	512.3	496.4	485.8	488.4	488.4
52.5°	552.1	530.9	496.4	456.6	440.6	424.7	406.1	387.6	379.6	376.9	376.9
55°	475.2	451.3	416.8	371.6	358.4	339.8	315.9	294.6	284.0	281.4	286.7
57.5°	406.1	384.9	345.1	300.0	284.0	265.5	241.6	223.0	209.7	207.1	209.7
60°	350.4	321.2	286.7	244.2	223.0	207.1	180.5	164.6	151.3	146.0	148.7
62.5°	294.6	268.1	233.6	191.1	175.2	159.3	135.4	116.8	106.2	103.5	106.2
65°	252.2	225.6	193.8	156.6	140.7	124.8	103.5	84.9	77.0	74.3	77.0
67.5°	209.7	185.8	159.3	124.8	111.5	98.2	77.0	63.7	53.1	50.4	53.1
70°	169.9	148.7	122.1	98.2	84.9	74.3	58.4	45.1	37.2	34.5	37.2
72.5°	127.4	111.5	92.9	71.7	63.7	55.7	42.5	31.9	26.5	23.9	26.5
75°	92.9	79.6	66.4	50.4	45.1	39.8	29.2	21.2	18.6	15.9	18.6
77.5°	63.7	55.7	45.1	34.5	29.2	26.5	18.6	15.9	13.3	10.6	10.6
80°	42.5	37.2	29.2	23.9	21.2	18.6	13.3	10.6	8.0	8.0	8.0
82.5°	26.5	21.2	18.6	13.3	10.6	10.6	8.0	5.3	5.3	5.3	5.3
85°	15.9	13.3	10.6	8.0	5.3	5.3	2.7	2.7	2.7	2.7	2.7
87.5°	8.0	5.3	5.3	2.7	2.7	2.7	2.7	2.7	0.0	0.0	2.7
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°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1876.7	1871.4	1871.4	1874.1	1876.7	1879.4	1874.1	1871.4	1871.4	1879.4	1874.1
5°	1876.7	1874.1	1874.1	1874.1	1879.4	1882.0	1876.7	1874.1	1876.7	1884.7	1882.0
7.5°	1884.7	1879.4	1882.0	1882.0	1884.7	1890.0	1884.7	1882.0	1884.7	1892.7	1887.4
10°	1890.0	1884.7	1887.4	1884.7	1892.7	1895.3	1890.0	1887.4	1890.0	1900.6	1898.0
12.5°	1892.7	1890.0	1890.0	1887.4	1895.3	1898.0	1892.7	1890.0	1892.7	1900.6	1898.0
15°	1887.4	1884.7	1884.7	1884.7	1890.0	1895.3	1887.4	1884.7	1884.7	1892.7	1890.0
17.5°	1876.7	1871.4	1871.4	1871.4	1874.1	1876.7	1868.8	1866.1	1863.5	1871.4	1868.8
20°	1858.2	1852.8	1847.5	1847.5	1850.2	1850.2	1844.9	1836.9	1836.9	1839.6	1834.3
22.5°	1823.6	1821.0	1815.7	1813.0	1818.3	1815.7	1805.1	1797.1	1794.4	1797.1	1791.8
25°	1775.9	1770.6	1767.9	1765.2	1767.9	1765.2	1754.6	1744.0	1744.0	1744.0	1736.0
27.5°	1709.5	1704.2	1701.5	1701.5	1704.2	1698.9	1688.3	1677.6	1672.3	1672.3	1664.4
30°	1624.6	1624.6	1621.9	1619.2	1616.6	1616.6	1600.7	1590.0	1584.7	1587.4	1582.1
32.5°	1521.0	1518.4	1515.7	1507.8	1510.4	1507.8	1494.5	1486.5	1478.6	1473.2	1470.6
35°	1388.3	1388.3	1385.7	1385.7	1385.7	1383.0	1369.7	1361.8	1356.5	1353.8	1345.8
37.5°	1242.3	1239.7	1237.0	1237.0	1237.0	1237.0	1229.0	1221.1	1221.1	1218.4	1213.1
40°	1077.7	1080.4	1083.0	1080.4	1088.3	1096.3	1085.7	1080.4	1077.7	1085.7	1075.1
42.5°	918.5	915.8	929.1	931.7	931.7	945.0	947.7	950.3	947.7	953.0	953.0
45°	764.5	761.8	775.1	780.4	793.7	809.6	817.6	830.9	836.2	841.5	836.2
47.5°	618.5	629.1	639.7	653.0	663.6	690.2	706.1	719.4	724.7	732.6	732.6
50°	496.4	507.0	525.6	536.2	549.5	581.3	607.9	626.5	637.1	645.0	642.4
52.5°	382.2	400.8	424.7	435.3	453.9	491.1	520.3	541.5	554.8	562.8	565.4
55°	294.6	310.6	334.5	350.4	369.0	408.8	446.0	469.8	483.1	493.7	499.0
57.5°	217.7	236.3	262.8	276.1	297.3	342.4	374.3	403.5	419.4	432.7	435.3
60°	159.3	177.9	201.7	217.7	238.9	284.0	321.2	347.7	366.3	376.9	382.2
62.5°	114.1	132.7	156.6	172.5	191.1	230.9	268.1	294.6	313.2	326.5	334.5
65°	82.3	100.9	124.8	138.0	154.0	191.1	225.6	252.2	270.8	286.7	292.0
67.5°	61.1	74.3	95.6	108.8	124.8	154.0	183.2	207.1	225.6	238.9	244.2
70°	45.1	55.7	74.3	82.3	92.9	119.5	143.3	164.6	180.5	191.1	196.4
72.5°	31.9	39.8	53.1	61.1	69.0	90.3	108.8	124.8	135.4	146.0	151.3
75°	21.2	26.5	37.2	42.5	47.8	63.7	77.0	90.3	98.2	106.2	108.8
77.5°	13.3	18.6	26.5	29.2	34.5	42.5	53.1	61.1	66.4	71.7	77.0
80°	8.0	10.6	15.9	18.6	21.2	29.2	34.5	39.8	45.1	50.4	53.1
82.5°	5.3	8.0	10.6	10.6	13.3	15.9	21.2	26.5	29.2	31.9	34.5
85°	2.7	2.7	5.3	5.3	8.0	8.0	10.6	13.3	15.9	18.6	21.2
87.5°	2.7	2.7	2.7	2.7	5.3	5.3	8.0	8.0	8.0	10.6	10.6
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: P252725

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1868.8	1876.7	1868.8	1874.1	1871.4	1871.4	1868.8	1871.4
5°	1876.7	1887.4	1876.7	1884.7	1879.4	1879.4	1879.4	1882.0
7.5°	1884.7	1895.3	1887.4	1895.3	1892.7	1890.0	1890.0	1895.3
10°	1892.7	1900.6	1895.3	1903.3	1900.6	1898.0	1898.0	1903.3
12.5°	1892.7	1903.3	1898.0	1905.9	1903.3	1900.6	1900.6	1903.3
15°	1884.7	1898.0	1890.0	1898.0	1895.3	1892.7	1892.7	1898.0
17.5°	1860.8	1871.4	1866.1	1871.4	1871.4	1868.8	1871.4	1874.1
20°	1829.0	1836.9	1831.6	1836.9	1836.9	1831.6	1834.3	1836.9
22.5°	1783.8	1791.8	1786.5	1791.8	1789.1	1786.5	1786.5	1783.8
25°	1728.1	1738.7	1730.7	1736.0	1730.7	1725.4	1725.4	1728.1
27.5°	1659.1	1667.0	1656.4	1661.7	1656.4	1651.1	1651.1	1648.4
30°	1568.8	1571.5	1563.5	1568.8	1563.5	1560.8	1555.5	1555.5
32.5°	1460.0	1462.6	1454.7	1454.7	1449.4	1449.4	1438.7	1446.7
35°	1332.6	1335.2	1332.6	1329.9	1321.9	1319.3	1316.6	1316.6
37.5°	1199.8	1199.8	1191.9	1189.2	1183.9	1178.6	1181.3	1173.3
40°	1064.5	1061.8	1053.8	1056.5	1053.8	1045.9	1043.2	1040.6
42.5°	937.0	937.0	929.1	931.7	926.4	923.8	915.8	918.5
45°	825.6	825.6	817.6	817.6	814.9	807.0	809.6	804.3
47.5°	724.7	724.7	722.0	722.0	714.1	711.4	711.4	711.4
50°	637.1	637.1	637.1	637.1	634.4	631.8	629.1	631.8
52.5°	562.8	568.1	565.4	565.4	562.8	560.1	557.4	557.4
55°	496.4	499.0	499.0	501.7	499.0	496.4	499.0	496.4
57.5°	438.0	443.3	443.3	443.3	443.3	443.3	440.6	438.0
60°	387.6	390.2	390.2	392.9	392.9	392.9	390.2	390.2
62.5°	337.1	342.4	345.1	345.1	347.7	345.1	345.1	345.1
65°	297.3	302.6	305.3	302.6	305.3	305.3	302.6	302.6
67.5°	249.5	254.8	254.8	254.8	254.8	257.5	254.8	254.8
70°	201.7	207.1	204.4	207.1	207.1	207.1	207.1	207.1
72.5°	154.0	156.6	159.3	159.3	161.9	159.3	159.3	159.3
75°	111.5	116.8	116.8	116.8	116.8	119.5	119.5	119.5
77.5°	79.6	82.3	82.3	84.9	84.9	84.9	84.9	87.6
80°	55.7	55.7	58.4	58.4	61.1	61.1	61.1	61.1
82.5°	37.2	39.8	39.8	39.8	39.8	39.8	39.8	39.8
85°	21.2	23.9	23.9	23.9	23.9	26.5	26.5	26.5
87.5°	13.3	13.3	13.3	13.3	13.3	13.3	10.6	10.6
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)