

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: P252702

Luminaire Tested: **LD6B40D010 EU6B30508035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252702
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: LD6B40D010 EU6B30508035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

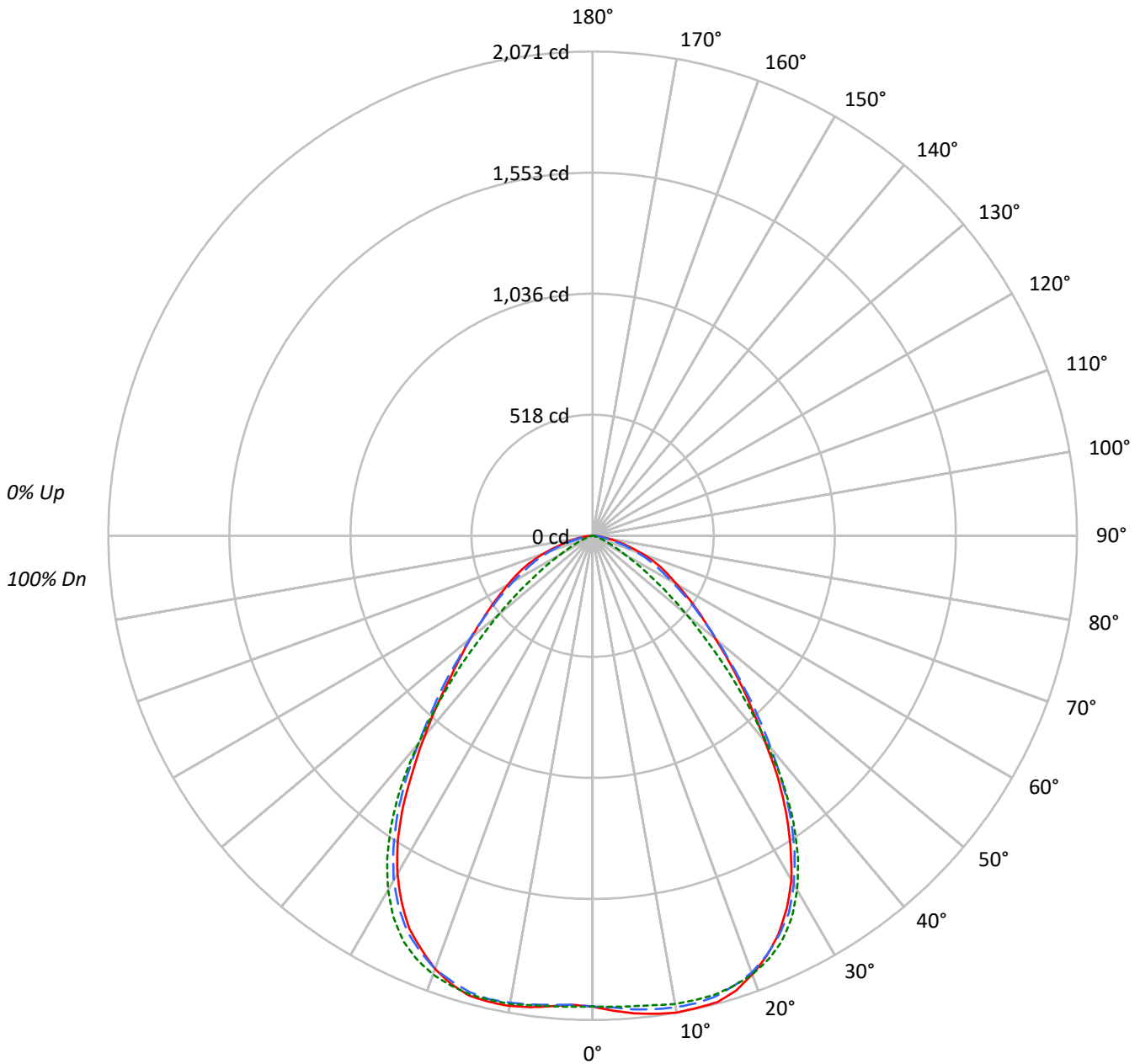
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252702

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBDW1H

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89				89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78				78
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68				68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61				61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54				54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48				48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44				44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	131382	131382	131382
5°	134307	132257	132257
10°	137178	134727	135296
15°	139474	137171	137556
20°	138626	138626	136842
25°	135325	137787	133482
30°	128104	131751	125739
35°	114791	119323	112521
40°	97515	98732	95087
45°	82521	75426	79624
50°	69667	53194	68804
55°	61228	34339	60580
60°	54267	20446	54633
65°	50125	12319	50125
70°	43472	7058	42385
75°	34458	4310	32315
80°	25698	3193	24609
85°	23430	2096	21334



TEST NUMBER: P252702

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	4.9
10°-20°	573.8	14.4
20°-30°	863.0	21.6
30°-40°	907.3	22.7
40°-50°	677.8	17.0
50°-60°	422.0	10.6
60°-70°	240.0	6.0
70°-80°	98.8	2.5
80°-90°	20.4	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°	1630.7	40.8
0°-40°	2538.0	63.5
0°-60°	3637.8	91.0
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2014	2014	2014	2014	2014	
5°	2051	2034	2020	2014	2020	196
15°	2065	2039	2031	2022	2037	581
25°	1880	1886	1914	1871	1854	861
35°	1441	1478	1498	1456	1413	894
45°	894	914	818	897	863	693
55°	538	527	302	518	533	484
65°	325	290	80	290	325	320
75°	137	108	17	105	128	149
85°	31	20	3	17	28	35
90°	0	0	0	0	0	



TEST NUMBER: P252702

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2033.7	2030.9	2033.7	2028.0	2025.2	2025.2	2028.0	2022.3	2019.5	2022.3	2019.5
5°	2050.8	2045.1	2048.0	2045.1	2039.4	2039.4	2042.3	2033.7	2033.7	2036.6	2033.7
7.5°	2062.2	2062.2	2062.2	2056.5	2053.7	2050.8	2056.5	2048.0	2045.1	2045.1	2042.3
10°	2070.7	2067.9	2070.7	2065.0	2059.3	2056.5	2062.2	2056.5	2050.8	2056.5	2048.0
12.5°	2067.9	2067.9	2067.9	2065.0	2059.3	2056.5	2062.2	2053.7	2050.8	2053.7	2048.0
15°	2065.0	2056.5	2059.3	2056.5	2048.0	2048.0	2050.8	2042.3	2036.6	2045.1	2039.4
17.5°	2039.4	2033.7	2036.6	2030.9	2025.2	2022.3	2025.2	2022.3	2016.6	2022.3	2016.6
20°	1996.7	1996.7	1999.5	1993.8	1988.1	1985.3	1991.0	1985.3	1979.6	1988.1	1988.1
22.5°	1945.4	1945.4	1945.4	1942.6	1939.7	1939.7	1939.7	1936.9	1934.0	1939.7	1942.6
25°	1879.9	1877.1	1879.9	1882.8	1879.9	1877.1	1879.9	1879.9	1874.2	1885.6	1885.6
27.5°	1797.3	1797.3	1803.0	1800.1	1800.1	1797.3	1803.0	1803.0	1800.1	1808.7	1817.2
30°	1700.5	1694.8	1700.5	1700.5	1703.3	1703.3	1706.2	1706.2	1706.2	1714.7	1720.4
32.5°	1575.1	1578.0	1586.5	1583.7	1580.8	1589.4	1589.4	1595.1	1597.9	1603.6	1606.5
35°	1441.3	1444.1	1444.1	1447.0	1452.7	1447.0	1461.2	1458.3	1461.2	1472.6	1478.3
37.5°	1298.8	1290.3	1304.5	1298.8	1301.7	1301.7	1307.4	1310.2	1318.8	1333.0	1333.0
40°	1145.0	1147.9	1153.6	1156.4	1159.3	1159.3	1159.3	1167.8	1170.7	1187.8	1184.9
42.5°	1011.2	1011.2	1016.9	1019.7	1019.7	1019.7	1019.7	1028.2	1033.9	1039.6	1045.3
45°	894.4	885.8	891.5	891.5	897.2	894.4	900.1	905.8	908.6	917.2	914.3
47.5°	783.3	780.4	783.3	786.1	783.3	786.1	789.0	791.8	794.7	794.7	794.7
50°	686.4	686.4	689.3	692.1	692.1	692.1	692.1	695.0	695.0	700.7	695.0
52.5°	606.7	609.5	609.5	606.7	609.5	609.5	612.4	612.4	609.5	609.5	601.0
55°	538.3	535.5	538.3	535.5	538.3	538.3	535.5	535.5	532.6	529.8	526.9
57.5°	472.8	472.8	472.8	472.8	470.0	472.8	470.0	467.1	467.1	461.4	452.9
60°	415.9	415.9	415.9	415.9	415.9	413.0	415.9	413.0	407.3	401.6	390.2
62.5°	367.4	364.6	367.4	364.6	364.6	361.7	361.7	358.9	353.2	347.5	336.1
65°	324.7	327.6	324.7	324.7	321.9	319.0	319.0	316.2	307.6	301.9	290.5
67.5°	279.1	276.3	276.3	276.3	273.4	273.4	273.4	267.7	262.0	253.5	242.1
70°	227.9	227.9	227.9	225.0	225.0	222.2	222.2	219.3	213.6	207.9	193.7
72.5°	179.4	179.4	179.4	173.7	176.6	173.7	173.7	168.1	165.2	156.7	148.1
75°	136.7	136.7	133.9	133.9	131.0	128.2	128.2	125.3	122.5	116.8	108.2
77.5°	99.7	99.7	99.7	96.8	94.0	91.1	91.1	88.3	85.5	82.6	76.9
80°	68.4	68.4	68.4	68.4	65.5	62.7	62.7	59.8	59.8	57.0	51.3
82.5°	45.6	45.6	45.6	45.6	42.7	42.7	42.7	39.9	37.0	37.0	31.3
85°	31.3	31.3	28.5	28.5	28.5	28.5	25.6	25.6	22.8	19.9	19.9
87.5°	17.1	17.1	17.1	17.1	14.2	14.2	14.2	14.2	11.4	11.4	8.5
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: P252702

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2028.0	2028.0	2025.2	2016.6	2019.5	2016.6	2019.5	2016.6	2008.1	2016.6	2008.1
5°	2039.4	2042.3	2036.6	2025.2	2028.0	2025.2	2025.2	2022.3	2013.8	2019.5	2013.8
7.5°	2050.8	2048.0	2045.1	2033.7	2036.6	2033.7	2033.7	2028.0	2019.5	2025.2	2016.6
10°	2056.5	2056.5	2050.8	2039.4	2039.4	2036.6	2039.4	2036.6	2025.2	2033.7	2028.0
12.5°	2056.5	2053.7	2053.7	2039.4	2042.3	2039.4	2042.3	2036.6	2028.0	2033.7	2030.9
15°	2048.0	2048.0	2045.1	2030.9	2033.7	2033.7	2036.6	2030.9	2022.3	2030.9	2025.2
17.5°	2030.9	2030.9	2028.0	2016.6	2022.3	2022.3	2025.2	2019.5	2010.9	2016.6	2016.6
20°	1996.7	1999.5	1999.5	1991.0	1996.7	1996.7	1999.5	1996.7	1993.8	1996.7	1991.0
22.5°	1956.8	1962.5	1962.5	1954.0	1959.7	1959.7	1968.2	1965.4	1959.7	1962.5	1959.7
25°	1897.0	1902.7	1908.4	1902.7	1908.4	1908.4	1916.9	1914.1	1908.4	1914.1	1905.5
27.5°	1828.6	1831.5	1837.2	1831.5	1840.0	1837.2	1845.7	1842.9	1834.3	1842.9	1840.0
30°	1731.8	1743.2	1751.7	1743.2	1751.7	1751.7	1757.4	1754.6	1751.7	1748.9	1748.9
32.5°	1623.6	1634.9	1634.9	1632.1	1637.8	1637.8	1640.6	1634.9	1632.1	1634.9	1637.8
35°	1489.7	1495.4	1501.1	1498.2	1501.1	1503.9	1501.1	1503.9	1495.4	1498.2	1498.2
37.5°	1344.4	1350.1	1350.1	1341.6	1347.3	1347.3	1341.6	1341.6	1335.9	1341.6	1330.2
40°	1190.6	1184.9	1187.8	1182.1	1176.4	1176.4	1173.5	1162.1	1156.4	1159.3	1162.1
42.5°	1039.6	1039.6	1031.1	1016.9	1002.6	1002.6	994.1	988.4	977.0	982.7	979.8
45°	911.5	897.2	885.8	863.0	854.5	848.8	834.6	820.3	814.6	817.5	814.6
47.5°	789.0	777.6	749.1	717.8	709.2	700.7	683.6	666.5	660.8	655.1	655.1
50°	686.4	666.5	635.2	601.0	586.8	572.5	549.7	532.6	521.2	524.1	524.1
52.5°	592.5	569.7	532.6	489.9	472.8	455.7	435.8	415.9	407.3	404.5	404.5
55°	509.9	484.2	447.2	398.8	384.5	364.6	339.0	316.2	304.8	301.9	307.6
57.5°	435.8	413.0	370.3	321.9	304.8	284.8	259.2	239.3	225.0	222.2	225.0
60°	376.0	344.6	307.6	262.0	239.3	222.2	193.7	176.6	162.4	156.7	159.5
62.5°	316.2	287.7	250.7	205.1	188.0	170.9	145.3	125.3	113.9	111.1	113.9
65°	270.6	242.1	207.9	168.1	151.0	133.9	111.1	91.1	82.6	79.8	82.6
67.5°	225.0	199.4	170.9	133.9	119.6	105.4	82.6	68.4	57.0	54.1	57.0
70°	182.3	159.5	131.0	105.4	91.1	79.8	62.7	48.4	39.9	37.0	39.9
72.5°	136.7	119.6	99.7	76.9	68.4	59.8	45.6	34.2	28.5	25.6	28.5
75°	99.7	85.5	71.2	54.1	48.4	42.7	31.3	22.8	19.9	17.1	19.9
77.5°	68.4	59.8	48.4	37.0	31.3	28.5	19.9	17.1	14.2	11.4	11.4
80°	45.6	39.9	31.3	25.6	22.8	19.9	14.2	11.4	8.5	8.5	8.5
82.5°	28.5	22.8	19.9	14.2	11.4	11.4	8.5	5.7	5.7	5.7	5.7
85°	17.1	14.2	11.4	8.5	5.7	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	8.5	5.7	5.7	2.8	2.8	2.8	2.8	2.8	0.0	0.0	2.8
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: P252702

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2013.8	2008.1	2008.1	2010.9	2013.8	2016.6	2010.9	2008.1	2008.1	2016.6	2010.9
5°	2013.8	2010.9	2010.9	2010.9	2016.6	2019.5	2013.8	2010.9	2013.8	2022.3	2019.5
7.5°	2022.3	2016.6	2019.5	2019.5	2022.3	2028.0	2022.3	2019.5	2022.3	2030.9	2025.2
10°	2028.0	2022.3	2025.2	2022.3	2030.9	2033.7	2028.0	2025.2	2028.0	2039.4	2036.6
12.5°	2030.9	2028.0	2028.0	2025.2	2033.7	2036.6	2030.9	2028.0	2030.9	2039.4	2036.6
15°	2025.2	2022.3	2022.3	2022.3	2028.0	2033.7	2025.2	2022.3	2022.3	2030.9	2028.0
17.5°	2013.8	2008.1	2008.1	2008.1	2010.9	2013.8	2005.2	2002.4	1999.5	2008.1	2005.2
20°	1993.8	1988.1	1982.4	1982.4	1985.3	1985.3	1979.6	1971.0	1971.0	1973.9	1968.2
22.5°	1956.8	1954.0	1948.3	1945.4	1951.1	1948.3	1936.9	1928.3	1925.5	1928.3	1922.6
25°	1905.5	1899.8	1897.0	1894.1	1897.0	1894.1	1882.8	1871.4	1871.4	1871.4	1862.8
27.5°	1834.3	1828.6	1825.8	1825.8	1828.6	1822.9	1811.5	1800.1	1794.5	1794.5	1785.9
30°	1743.2	1743.2	1740.3	1737.5	1734.6	1734.6	1717.5	1706.2	1700.5	1703.3	1697.6
32.5°	1632.1	1629.2	1626.4	1617.9	1620.7	1617.9	1603.6	1595.1	1586.5	1580.8	1578.0
35°	1489.7	1489.7	1486.8	1486.8	1486.8	1484.0	1469.7	1461.2	1455.5	1452.7	1444.1
37.5°	1333.0	1330.2	1327.3	1327.3	1327.3	1327.3	1318.8	1310.2	1310.2	1307.4	1301.7
40°	1156.4	1159.3	1162.1	1159.3	1167.8	1176.4	1165.0	1159.3	1156.4	1165.0	1153.6
42.5°	985.5	982.7	996.9	999.8	999.8	1014.0	1016.9	1019.7	1016.9	1022.6	1022.6
45°	820.3	817.5	831.7	837.4	851.7	868.7	877.3	891.5	897.2	902.9	897.2
47.5°	663.7	675.1	686.4	700.7	712.1	740.6	757.7	771.9	777.6	786.1	786.1
50°	532.6	544.0	564.0	575.4	589.6	623.8	652.3	672.2	683.6	692.1	689.3
52.5°	410.2	430.1	455.7	467.1	487.1	526.9	558.3	581.1	595.3	603.8	606.7
55°	316.2	333.3	358.9	376.0	395.9	438.6	478.5	504.2	518.4	529.8	535.5
57.5°	233.6	253.5	282.0	296.2	319.0	367.4	401.6	432.9	450.0	464.3	467.1
60°	170.9	190.8	216.5	233.6	256.4	304.8	344.6	373.1	393.1	404.5	410.2
62.5°	122.5	142.4	168.1	185.1	205.1	247.8	287.7	316.2	336.1	350.3	358.9
65°	88.3	108.2	133.9	148.1	165.2	205.1	242.1	270.6	290.5	307.6	313.3
67.5°	65.5	79.8	102.5	116.8	133.9	165.2	196.5	222.2	242.1	256.4	262.0
70°	48.4	59.8	79.8	88.3	99.7	128.2	153.8	176.6	193.7	205.1	210.8
72.5°	34.2	42.7	57.0	65.5	74.1	96.8	116.8	133.9	145.3	156.7	162.4
75°	22.8	28.5	39.9	45.6	51.3	68.4	82.6	96.8	105.4	113.9	116.8
77.5°	14.2	19.9	28.5	31.3	37.0	45.6	57.0	65.5	71.2	76.9	82.6
80°	8.5	11.4	17.1	19.9	22.8	31.3	37.0	42.7	48.4	54.1	57.0
82.5°	5.7	8.5	11.4	11.4	14.2	17.1	22.8	28.5	31.3	34.2	37.0
85°	2.8	2.8	5.7	5.7	8.5	8.5	11.4	14.2	17.1	19.9	22.8
87.5°	2.8	2.8	2.8	2.8	5.7	5.7	8.5	8.5	8.5	11.4	11.4
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: P252702

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2005.2	2013.8	2005.2	2010.9	2008.1	2008.1	2005.2	2008.1
5°	2013.8	2025.2	2013.8	2022.3	2016.6	2016.6	2016.6	2019.5
7.5°	2022.3	2033.7	2025.2	2033.7	2030.9	2028.0	2028.0	2033.7
10°	2030.9	2039.4	2033.7	2042.3	2039.4	2036.6	2036.6	2042.3
12.5°	2030.9	2042.3	2036.6	2045.1	2042.3	2039.4	2039.4	2042.3
15°	2022.3	2036.6	2028.0	2036.6	2033.7	2030.9	2030.9	2036.6
17.5°	1996.7	2008.1	2002.4	2008.1	2008.1	2005.2	2008.1	2010.9
20°	1962.5	1971.0	1965.4	1971.0	1971.0	1965.4	1968.2	1971.0
22.5°	1914.1	1922.6	1916.9	1922.6	1919.8	1916.9	1916.9	1914.1
25°	1854.3	1865.7	1857.1	1862.8	1857.1	1851.4	1851.4	1854.3
27.5°	1780.2	1788.8	1777.4	1783.1	1777.4	1771.7	1771.7	1768.8
30°	1683.4	1686.2	1677.7	1683.4	1677.7	1674.8	1669.1	1669.1
32.5°	1566.6	1569.4	1560.9	1560.9	1555.2	1555.2	1543.8	1552.3
35°	1429.9	1432.7	1429.9	1427.0	1418.5	1415.6	1412.8	1412.8
37.5°	1287.4	1287.4	1278.9	1276.1	1270.4	1264.7	1267.5	1259.0
40°	1142.2	1139.3	1130.8	1133.6	1130.8	1122.2	1119.4	1116.5
42.5°	1005.5	1005.5	996.9	999.8	994.1	991.2	982.7	985.5
45°	885.8	885.8	877.3	877.3	874.4	865.9	868.7	863.0
47.5°	777.6	777.6	774.7	774.7	766.2	763.4	763.4	763.4
50°	683.6	683.6	683.6	683.6	680.8	677.9	675.1	677.9
52.5°	603.8	609.5	606.7	606.7	603.8	601.0	598.2	598.2
55°	532.6	535.5	535.5	538.3	535.5	532.6	535.5	532.6
57.5°	470.0	475.7	475.7	475.7	475.7	475.7	472.8	470.0
60°	415.9	418.7	418.7	421.6	421.6	421.6	418.7	418.7
62.5°	361.7	367.4	370.3	370.3	373.1	370.3	370.3	370.3
65°	319.0	324.7	327.6	324.7	327.6	327.6	324.7	324.7
67.5°	267.7	273.4	273.4	273.4	273.4	276.3	273.4	273.4
70°	216.5	222.2	219.3	222.2	222.2	222.2	222.2	222.2
72.5°	165.2	168.1	170.9	170.9	173.7	170.9	170.9	170.9
75°	119.6	125.3	125.3	125.3	125.3	128.2	128.2	128.2
77.5°	85.5	88.3	88.3	91.1	91.1	91.1	91.1	94.0
80°	59.8	59.8	62.7	62.7	65.5	65.5	65.5	65.5
82.5°	39.9	42.7	42.7	42.7	42.7	42.7	42.7	42.7
85°	22.8	25.6	25.6	25.6	25.6	28.5	28.5	28.5
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	11.4	11.4
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)