

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: P252700

Luminaire Tested: **LD6B40D010 EU6B30508027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252700
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 EU6B30508027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

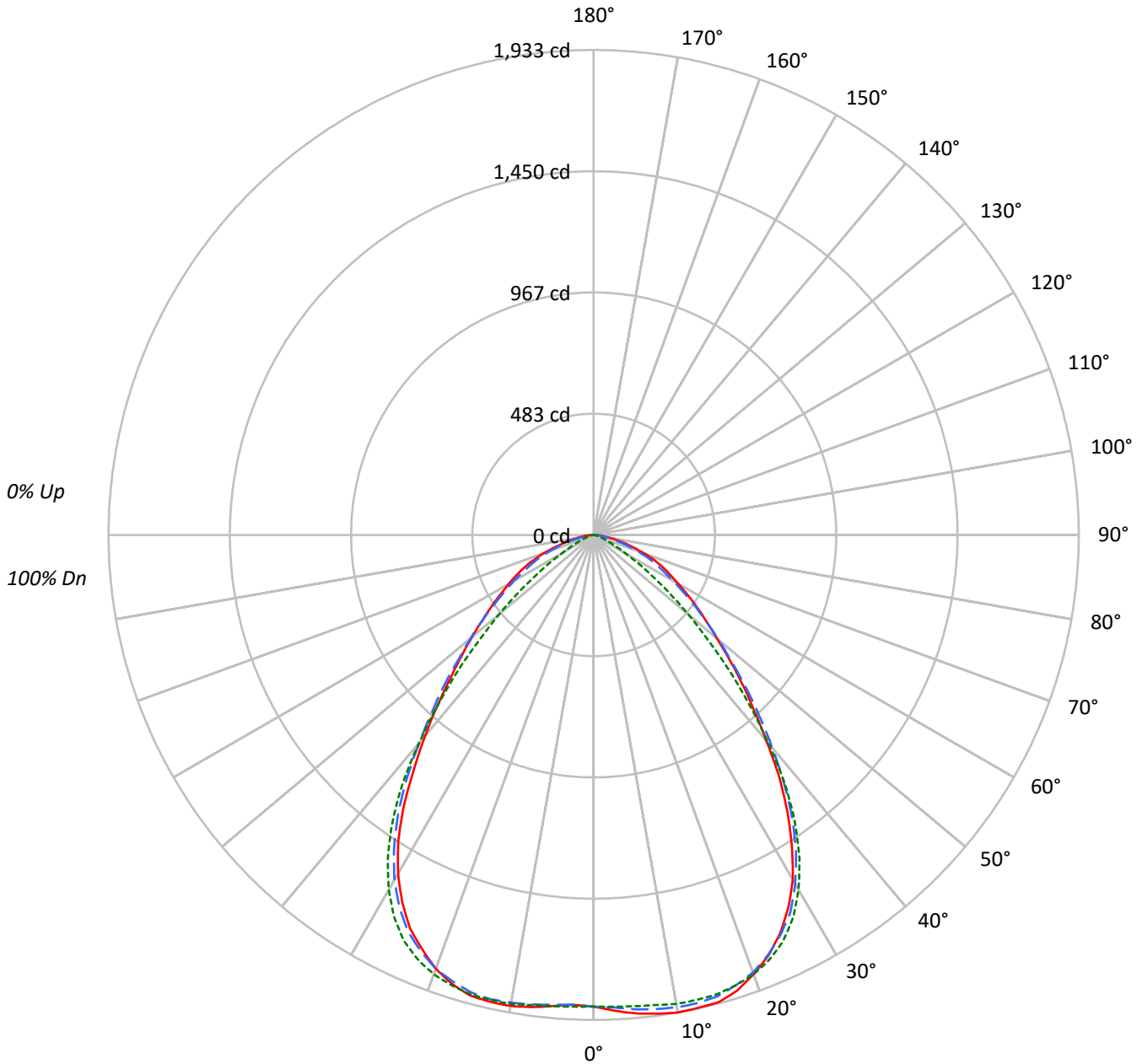
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	122639	122639	122639
5°	125367	123455	123455
10°	128049	125763	126287
15°	130194	128039	128397
20°	129399	129399	127740
25°	126319	128616	124599
30°	119577	122982	117369
35°	107145	111382	105035
40°	91025	92158	88760
45°	77031	70407	74328
50°	65039	49652	64227
55°	57156	32053	56553
60°	50653	19076	50992
65°	46790	11485	46790
70°	40573	6600	39562
75°	32164	4033	30148
80°	23970	3006	22993
85°	21858	2021	19911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	4.9
10°-20°	535.6	14.4
20°-30°	805.5	21.6
30°-40°	846.9	22.7
40°-50°	632.7	17.0
50°-60°	393.9	10.6
60°-70°	224.0	6.0
70°-80°	92.3	2.5
80°-90°	19.1	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°	1522.1	40.8
0°-40°	2369.1	63.5
0°-60°	3395.7	91.0
0°-90°	3731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1880	1880	1880	1880	1880	
5°	1914	1898	1885	1880	1885	183
15°	1928	1904	1896	1888	1901	542
25°	1755	1760	1787	1747	1731	803
35°	1345	1380	1398	1359	1319	835
45°	835	854	763	838	806	647
55°	502	492	282	484	497	452
65°	303	271	74	271	303	298
75°	128	101	16	98	120	139
85°	29	19	3	16	27	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°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	1898.4	1895.7	1898.4	1893.1	1890.4	1890.4	1893.1	1887.7	1885.1	1887.7	1885.1
5°	1914.3	1909.0	1911.7	1909.0	1903.7	1903.7	1906.3	1898.4	1898.4	1901.0	1898.4
7.5°	1925.0	1925.0	1925.0	1919.6	1917.0	1914.3	1919.6	1911.7	1909.0	1909.0	1906.3
10°	1932.9	1930.3	1932.9	1927.6	1922.3	1919.6	1925.0	1919.6	1914.3	1919.6	1911.7
12.5°	1930.3	1930.3	1930.3	1927.6	1922.3	1919.6	1925.0	1917.0	1914.3	1917.0	1911.7
15°	1927.6	1919.6	1922.3	1919.6	1911.7	1911.7	1914.3	1906.3	1901.0	1909.0	1903.7
17.5°	1903.7	1898.4	1901.0	1895.7	1890.4	1887.7	1890.4	1887.7	1882.4	1887.7	1882.4
20°	1863.8	1863.8	1866.5	1861.1	1855.8	1853.2	1858.5	1853.2	1847.9	1855.8	1855.8
22.5°	1815.9	1815.9	1815.9	1813.3	1810.6	1810.6	1810.6	1808.0	1805.3	1810.6	1813.3
25°	1754.8	1752.1	1754.8	1757.5	1754.8	1752.1	1754.8	1754.8	1749.5	1760.1	1760.1
27.5°	1677.7	1677.7	1683.0	1680.3	1680.3	1677.7	1683.0	1683.0	1680.3	1688.3	1696.3
30°	1587.3	1582.0	1587.3	1587.3	1590.0	1590.0	1592.6	1592.6	1592.6	1600.6	1605.9
32.5°	1470.3	1473.0	1480.9	1478.3	1475.6	1483.6	1483.6	1488.9	1491.6	1496.9	1499.6
35°	1345.3	1348.0	1348.0	1350.7	1356.0	1350.7	1364.0	1361.3	1364.0	1374.6	1379.9
37.5°	1212.4	1204.4	1217.7	1212.4	1215.1	1215.1	1220.4	1223.0	1231.0	1244.3	1244.3
40°	1068.8	1071.5	1076.8	1079.5	1082.1	1082.1	1082.1	1090.1	1092.8	1108.7	1106.1
42.5°	943.9	943.9	949.2	951.8	951.8	951.8	951.8	959.8	965.1	970.5	975.8
45°	834.9	826.9	832.2	832.2	837.5	834.9	840.2	845.5	848.2	856.1	853.5
47.5°	731.2	728.5	731.2	733.8	731.2	733.8	736.5	739.1	741.8	741.8	741.8
50°	640.8	640.8	643.4	646.1	646.1	646.1	646.1	648.7	648.7	654.1	648.7
52.5°	566.3	569.0	569.0	566.3	569.0	569.0	571.6	571.6	569.0	569.0	561.0
55°	502.5	499.9	502.5	499.9	502.5	502.5	499.9	499.9	497.2	494.5	491.9
57.5°	441.4	441.4	441.4	441.4	438.7	441.4	438.7	436.0	436.0	430.7	422.7
60°	388.2	388.2	388.2	388.2	388.2	385.5	388.2	385.5	380.2	374.9	364.3
62.5°	343.0	340.3	343.0	340.3	340.3	337.7	337.7	335.0	329.7	324.4	313.7
65°	303.1	305.8	303.1	303.1	300.4	297.8	297.8	295.1	287.1	281.8	271.2
67.5°	260.6	257.9	257.9	257.9	255.2	255.2	255.2	249.9	244.6	236.6	226.0
70°	212.7	212.7	212.7	210.0	210.0	207.4	207.4	204.7	199.4	194.1	180.8
72.5°	167.5	167.5	167.5	162.2	164.8	162.2	162.2	156.9	154.2	146.2	138.3
75°	127.6	127.6	125.0	125.0	122.3	119.6	119.6	117.0	114.3	109.0	101.0
77.5°	93.1	93.1	93.1	90.4	87.7	85.1	85.1	82.4	79.8	77.1	71.8
80°	63.8	63.8	63.8	63.8	61.2	58.5	58.5	55.8	55.8	53.2	47.9
82.5°	42.5	42.5	42.5	42.5	39.9	39.9	39.9	37.2	34.6	34.6	29.2
85°	29.2	29.2	26.6	26.6	26.6	26.6	23.9	23.9	21.3	18.6	18.6
87.5°	16.0	16.0	16.0	16.0	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°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	1893.1	1893.1	1890.4	1882.4	1885.1	1882.4	1885.1	1882.4	1874.4	1882.4	1874.4
5°	1903.7	1906.3	1901.0	1890.4	1893.1	1890.4	1890.4	1887.7	1879.8	1885.1	1879.8
7.5°	1914.3	1911.7	1909.0	1898.4	1901.0	1898.4	1898.4	1893.1	1885.1	1890.4	1882.4
10°	1919.6	1919.6	1914.3	1903.7	1903.7	1901.0	1903.7	1901.0	1890.4	1898.4	1893.1
12.5°	1919.6	1917.0	1917.0	1903.7	1906.3	1903.7	1906.3	1901.0	1893.1	1898.4	1895.7
15°	1911.7	1911.7	1909.0	1895.7	1898.4	1898.4	1901.0	1895.7	1887.7	1895.7	1890.4
17.5°	1895.7	1895.7	1893.1	1882.4	1887.7	1887.7	1890.4	1885.1	1877.1	1882.4	1882.4
20°	1863.8	1866.5	1866.5	1858.5	1863.8	1863.8	1866.5	1863.8	1861.1	1863.8	1858.5
22.5°	1826.6	1831.9	1831.9	1823.9	1829.2	1829.2	1837.2	1834.6	1829.2	1831.9	1829.2
25°	1770.7	1776.1	1781.4	1776.1	1781.4	1781.4	1789.4	1786.7	1781.4	1786.7	1778.7
27.5°	1706.9	1709.6	1714.9	1709.6	1717.6	1714.9	1722.9	1720.2	1712.3	1720.2	1717.6
30°	1616.5	1627.2	1635.1	1627.2	1635.1	1635.1	1640.5	1637.8	1635.1	1632.5	1632.5
32.5°	1515.5	1526.1	1526.1	1523.5	1528.8	1528.8	1531.5	1526.1	1523.5	1526.1	1528.8
35°	1390.5	1395.9	1401.2	1398.5	1401.2	1403.8	1401.2	1403.8	1395.9	1398.5	1398.5
37.5°	1254.9	1260.3	1260.3	1252.3	1257.6	1257.6	1252.3	1252.3	1247.0	1252.3	1241.7
40°	1111.4	1106.1	1108.7	1103.4	1098.1	1098.1	1095.4	1084.8	1079.5	1082.1	1084.8
42.5°	970.5	970.5	962.5	949.2	935.9	935.9	927.9	922.6	912.0	917.3	914.6
45°	850.8	837.5	826.9	805.6	797.6	792.3	779.0	765.7	760.4	763.1	760.4
47.5°	736.5	725.8	699.3	670.0	662.0	654.1	638.1	622.2	616.8	611.5	611.5
50°	640.8	622.2	592.9	561.0	547.7	534.4	513.1	497.2	486.6	489.2	489.2
52.5°	553.0	531.8	497.2	457.3	441.4	425.4	406.8	388.2	380.2	377.5	377.5
55°	475.9	452.0	417.4	372.2	358.9	340.3	316.4	295.1	284.5	281.8	287.1
57.5°	406.8	385.5	345.6	300.4	284.5	265.9	241.9	223.3	210.0	207.4	210.0
60°	351.0	321.7	287.1	244.6	223.3	207.4	180.8	164.8	151.6	146.2	148.9
62.5°	295.1	268.5	234.0	191.4	175.5	159.5	135.6	117.0	106.4	103.7	106.4
65°	252.6	226.0	194.1	156.9	140.9	125.0	103.7	85.1	77.1	74.4	77.1
67.5°	210.0	186.1	159.5	125.0	111.7	98.4	77.1	63.8	53.2	50.5	53.2
70°	170.2	148.9	122.3	98.4	85.1	74.4	58.5	45.2	37.2	34.6	37.2
72.5°	127.6	111.7	93.1	71.8	63.8	55.8	42.5	31.9	26.6	23.9	26.6
75°	93.1	79.8	66.5	50.5	45.2	39.9	29.2	21.3	18.6	16.0	18.6
77.5°	63.8	55.8	45.2	34.6	29.2	26.6	18.6	16.0	13.3	10.6	10.6
80°	42.5	37.2	29.2	23.9	21.3	18.6	13.3	10.6	8.0	8.0	8.0
82.5°	26.6	21.3	18.6	13.3	10.6	10.6	8.0	5.3	5.3	5.3	5.3
85°	16.0	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°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	1879.8	1874.4	1874.4	1877.1	1879.8	1882.4	1877.1	1874.4	1874.4	1882.4	1877.1
5°	1879.8	1877.1	1877.1	1877.1	1882.4	1885.1	1879.8	1877.1	1879.8	1887.7	1885.1
7.5°	1887.7	1882.4	1885.1	1885.1	1887.7	1893.1	1887.7	1885.1	1887.7	1895.7	1890.4
10°	1893.1	1887.7	1890.4	1887.7	1895.7	1898.4	1893.1	1890.4	1893.1	1903.7	1901.0
12.5°	1895.7	1893.1	1893.1	1890.4	1898.4	1901.0	1895.7	1893.1	1895.7	1903.7	1901.0
15°	1890.4	1887.7	1887.7	1887.7	1893.1	1898.4	1890.4	1887.7	1887.7	1895.7	1893.1
17.5°	1879.8	1874.4	1874.4	1874.4	1877.1	1879.8	1871.8	1869.1	1866.5	1874.4	1871.8
20°	1861.1	1855.8	1850.5	1850.5	1853.2	1853.2	1847.9	1839.9	1839.9	1842.5	1837.2
22.5°	1826.6	1823.9	1818.6	1815.9	1821.3	1818.6	1808.0	1800.0	1797.3	1800.0	1794.7
25°	1778.7	1773.4	1770.7	1768.1	1770.7	1768.1	1757.5	1746.8	1746.8	1746.8	1738.8
27.5°	1712.3	1706.9	1704.3	1704.3	1706.9	1701.6	1691.0	1680.3	1675.0	1675.0	1667.1
30°	1627.2	1627.2	1624.5	1621.9	1619.2	1619.2	1603.2	1592.6	1587.3	1590.0	1584.6
32.5°	1523.5	1520.8	1518.2	1510.2	1512.8	1510.2	1496.9	1488.9	1480.9	1475.6	1473.0
35°	1390.5	1390.5	1387.9	1387.9	1387.9	1385.2	1371.9	1364.0	1358.6	1356.0	1348.0
37.5°	1244.3	1241.7	1239.0	1239.0	1239.0	1239.0	1231.0	1223.0	1223.0	1220.4	1215.1
40°	1079.5	1082.1	1084.8	1082.1	1090.1	1098.1	1087.4	1082.1	1079.5	1087.4	1076.8
42.5°	919.9	917.3	930.6	933.2	933.2	946.5	949.2	951.8	949.2	954.5	954.5
45°	765.7	763.1	776.4	781.7	795.0	810.9	818.9	832.2	837.5	842.8	837.5
47.5°	619.5	630.1	640.8	654.1	664.7	691.3	707.2	720.5	725.8	733.8	733.8
50°	497.2	507.8	526.4	537.1	550.4	582.3	608.9	627.5	638.1	646.1	643.4
52.5°	382.9	401.5	425.4	436.0	454.7	491.9	521.1	542.4	555.7	563.7	566.3
55°	295.1	311.1	335.0	351.0	369.6	409.5	446.7	470.6	483.9	494.5	499.9
57.5°	218.0	236.6	263.2	276.5	297.8	343.0	374.9	404.1	420.1	433.4	436.0
60°	159.5	178.1	202.1	218.0	239.3	284.5	321.7	348.3	366.9	377.5	382.9
62.5°	114.3	132.9	156.9	172.8	191.4	231.3	268.5	295.1	313.7	327.0	335.0
65°	82.4	101.0	125.0	138.3	154.2	191.4	226.0	252.6	271.2	287.1	292.5
67.5°	61.2	74.4	95.7	109.0	125.0	154.2	183.5	207.4	226.0	239.3	244.6
70°	45.2	55.8	74.4	82.4	93.1	119.6	143.6	164.8	180.8	191.4	196.7
72.5°	31.9	39.9	53.2	61.2	69.1	90.4	109.0	125.0	135.6	146.2	151.6
75°	21.3	26.6	37.2	42.5	47.9	63.8	77.1	90.4	98.4	106.4	109.0
77.5°	13.3	18.6	26.6	29.2	34.6	42.5	53.2	61.2	66.5	71.8	77.1
80°	8.0	10.6	16.0	18.6	21.3	29.2	34.6	39.9	45.2	50.5	53.2
82.5°	5.3	8.0	10.6	10.6	13.3	16.0	21.3	26.6	29.2	31.9	34.6
85°	2.7	2.7	5.3	5.3	8.0	8.0	10.6	13.3	16.0	18.6	21.3
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: P252700

CATALOG NUMBER: LD6B40D010 EU6B30508027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	1871.8	1879.8	1871.8	1877.1	1874.4	1874.4	1871.8	1874.4
5°	1879.8	1890.4	1879.8	1887.7	1882.4	1882.4	1882.4	1885.1
7.5°	1887.7	1898.4	1890.4	1898.4	1895.7	1893.1	1893.1	1898.4
10°	1895.7	1903.7	1898.4	1906.3	1903.7	1901.0	1901.0	1906.3
12.5°	1895.7	1906.3	1901.0	1909.0	1906.3	1903.7	1903.7	1906.3
15°	1887.7	1901.0	1893.1	1901.0	1898.4	1895.7	1895.7	1901.0
17.5°	1863.8	1874.4	1869.1	1874.4	1874.4	1871.8	1874.4	1877.1
20°	1831.9	1839.9	1834.6	1839.9	1839.9	1834.6	1837.2	1839.9
22.5°	1786.7	1794.7	1789.4	1794.7	1792.0	1789.4	1789.4	1786.7
25°	1730.9	1741.5	1733.5	1738.8	1733.5	1728.2	1728.2	1730.9
27.5°	1661.7	1669.7	1659.1	1664.4	1659.1	1653.8	1653.8	1651.1
30°	1571.3	1574.0	1566.0	1571.3	1566.0	1563.4	1558.0	1558.0
32.5°	1462.3	1465.0	1457.0	1457.0	1451.7	1451.7	1441.1	1449.0
35°	1334.7	1337.4	1334.7	1332.0	1324.1	1321.4	1318.8	1318.8
37.5°	1201.8	1201.8	1193.8	1191.1	1185.8	1180.5	1183.2	1175.2
40°	1066.2	1063.5	1055.5	1058.2	1055.5	1047.6	1044.9	1042.2
42.5°	938.5	938.5	930.6	933.2	927.9	925.3	917.3	919.9
45°	826.9	826.9	818.9	818.9	816.2	808.3	810.9	805.6
47.5°	725.8	725.8	723.2	723.2	715.2	712.6	712.6	712.6
50°	638.1	638.1	638.1	638.1	635.4	632.8	630.1	632.8
52.5°	563.7	569.0	566.3	566.3	563.7	561.0	558.3	558.3
55°	497.2	499.9	499.9	502.5	499.9	497.2	499.9	497.2
57.5°	438.7	444.0	444.0	444.0	444.0	444.0	441.4	438.7
60°	388.2	390.8	390.8	393.5	393.5	393.5	390.8	390.8
62.5°	337.7	343.0	345.6	345.6	348.3	345.6	345.6	345.6
65°	297.8	303.1	305.8	303.1	305.8	305.8	303.1	303.1
67.5°	249.9	255.2	255.2	255.2	255.2	257.9	255.2	255.2
70°	202.1	207.4	204.7	207.4	207.4	207.4	207.4	207.4
72.5°	154.2	156.9	159.5	159.5	162.2	159.5	159.5	159.5
75°	111.7	117.0	117.0	117.0	117.0	119.6	119.6	119.6
77.5°	79.8	82.4	82.4	85.1	85.1	85.1	85.1	87.7
80°	55.8	55.8	58.5	58.5	61.2	61.2	61.2	61.2
82.5°	37.2	39.9	39.9	39.9	39.9	39.9	39.9	39.9
85°	21.3	23.9	23.9	23.9	23.9	26.6	26.6	26.6
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)