

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: P252492

Luminaire Tested: **LD6B40D010 EU6B30508027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252492
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: LD6B40D010 EU6B30508027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 3393.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

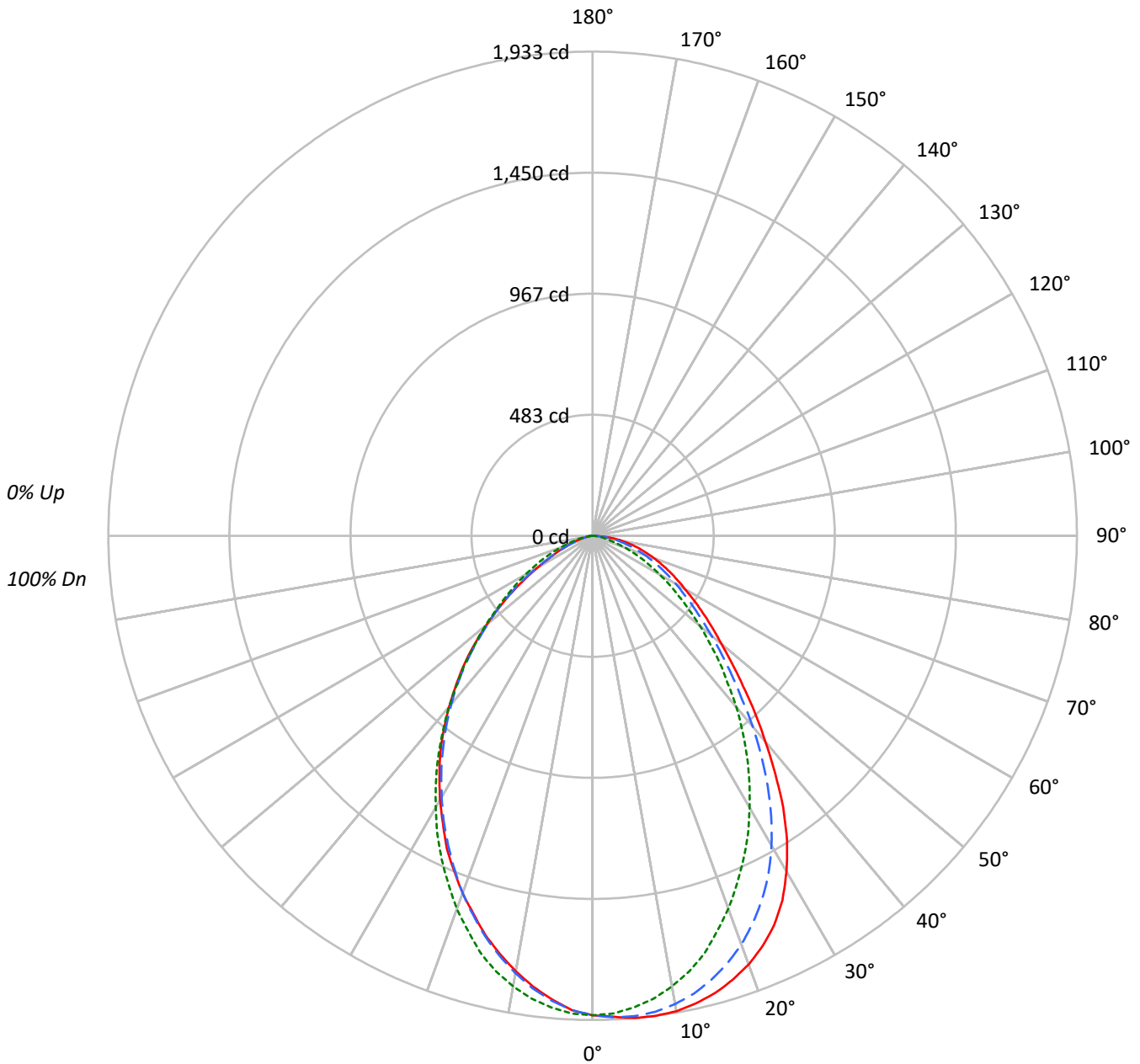
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	124884	124884	124884
5°	126579	123789	121700
10°	127685	120994	116946
15°	127668	116537	111512
20°	126435	110008	105391
25°	123440	102579	99131
30°	116563	94332	91726
35°	105656	85546	84486
40°	91246	76078	75848
45°	78249	66227	66716
50°	68003	56665	55853
55°	61080	47784	44758
60°	55507	40240	32960
65°	52116	33236	24221
70°	49691	25866	17740
75°	47591	18754	12074
80°	44934	12999	8003
85°	39823	7935	3967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	5.3
10°-20°	490.4	14.5
20°-30°	680.8	20.1
30°-40°	705.2	20.8
40°-50°	579.5	17.1
50°-60°	398.3	11.7
60°-70°	228.9	6.7
70°-80°	105.3	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°	1350.2	39.8
0°-40°	2055.4	60.6
0°-60°	3033.2	89.4
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1914	1914	1914	1914	1914	
5°	1933	1925	1890	1864	1858	184
15°	1890	1834	1725	1656	1651	532
25°	1715	1600	1425	1364	1377	785
35°	1327	1218	1074	1042	1061	823
45°	848	784	718	710	723	660
55°	537	486	420	396	394	483
65°	338	295	215	152	157	336
75°	189	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°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1922.1	1938.1	1927.4	1924.8	1930.1	1930.1	1930.1	1922.1	1927.4	1919.5	1924.8
5°	1932.8	1946.1	1935.4	1930.1	1935.4	1938.1	1930.1	1924.8	1932.8	1922.1	1924.8
7.5°	1932.8	1946.1	1935.4	1932.8	1935.4	1935.4	1932.8	1922.1	1927.4	1916.8	1916.8
10°	1927.4	1938.1	1927.4	1922.1	1924.8	1922.1	1922.1	1908.8	1911.5	1898.2	1898.2
12.5°	1911.5	1924.8	1911.5	1906.2	1906.2	1906.2	1898.2	1887.6	1890.2	1874.3	1871.6
15°	1890.2	1900.9	1887.6	1882.3	1882.3	1879.6	1874.3	1858.3	1858.3	1842.4	1834.4
17.5°	1858.3	1869.0	1858.3	1850.3	1847.7	1842.4	1837.1	1821.1	1815.8	1797.2	1789.2
20°	1821.1	1829.1	1818.4	1810.5	1805.2	1799.8	1789.2	1773.3	1767.9	1749.3	1736.0
22.5°	1773.3	1783.9	1767.9	1760.0	1754.6	1746.7	1736.0	1720.1	1712.1	1688.2	1672.2
25°	1714.8	1720.1	1706.8	1698.8	1688.2	1682.9	1674.9	1653.6	1645.6	1619.1	1600.4
27.5°	1640.3	1645.6	1629.7	1624.4	1611.1	1605.8	1595.1	1576.5	1565.9	1539.3	1520.7
30°	1547.3	1552.6	1542.0	1534.0	1523.3	1512.7	1504.7	1486.1	1470.2	1443.6	1427.6
32.5°	1443.6	1451.6	1440.9	1430.3	1411.7	1414.3	1401.1	1382.4	1369.2	1345.2	1326.6
35°	1326.6	1331.9	1318.6	1316.0	1305.3	1294.7	1281.4	1268.1	1260.2	1233.6	1217.6
37.5°	1196.3	1209.6	1196.3	1185.7	1180.4	1172.4	1164.4	1145.8	1140.5	1124.6	1103.3
40°	1071.4	1079.4	1071.4	1060.8	1052.8	1052.8	1042.2	1031.5	1018.2	1002.3	994.3
42.5°	959.7	954.4	951.8	946.4	935.8	933.2	930.5	917.2	909.2	893.3	880.0
45°	848.1	850.7	845.4	842.8	834.8	829.5	824.1	813.5	810.9	794.9	784.3
47.5°	755.0	752.4	747.1	747.1	741.7	736.4	731.1	723.1	720.5	707.2	696.5
50°	670.0	672.6	670.0	667.3	659.3	656.7	651.3	646.0	640.7	627.4	616.8
52.5°	600.8	598.2	595.5	595.5	587.5	584.9	579.6	574.2	568.9	555.6	547.7
55°	537.0	537.0	534.4	531.7	523.7	521.1	518.4	513.1	505.1	494.5	486.5
57.5°	478.5	478.5	475.9	473.2	467.9	467.9	462.6	457.3	452.0	441.3	430.7
60°	425.4	428.0	425.4	422.7	417.4	417.4	414.7	406.8	404.1	390.8	382.8
62.5°	380.2	380.2	380.2	377.5	374.9	369.5	369.5	361.6	356.2	348.3	337.6
65°	337.6	337.6	337.6	335.0	329.7	327.0	324.3	319.0	313.7	305.7	295.1
67.5°	297.8	297.8	297.8	295.1	289.8	287.1	284.5	281.8	273.8	265.9	255.2
70°	260.5	260.5	257.9	255.2	252.6	249.9	247.2	241.9	236.6	226.0	218.0
72.5°	223.3	223.3	223.3	218.0	215.3	215.3	210.0	207.4	202.0	191.4	183.4
75°	188.8	186.1	186.1	183.4	180.8	178.1	175.5	172.8	164.8	159.5	148.9
77.5°	154.2	154.2	151.5	148.9	148.9	146.2	143.6	138.2	135.6	127.6	119.6
80°	119.6	119.6	119.6	119.6	117.0	114.3	114.3	109.0	106.3	98.4	93.0
82.5°	90.4	87.7	87.7	87.7	85.1	82.4	82.4	79.8	77.1	71.8	66.5
85°	53.2	50.5	50.5	50.5	47.9	47.9	45.2	45.2	42.5	37.2	37.2
87.5°	16.0	16.0	18.6	18.6	16.0	16.0	16.0	16.0	16.0	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°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1919.5	1927.4	1916.8	1914.2	1924.8	1919.5	1916.8	1911.5	1914.2	1908.8	1900.9
5°	1916.8	1927.4	1914.2	1906.2	1919.5	1911.5	1906.2	1900.9	1900.9	1890.2	1884.9
7.5°	1908.8	1914.2	1900.9	1892.9	1900.9	1892.9	1887.6	1879.6	1876.9	1863.6	1855.7
10°	1887.6	1892.9	1876.9	1866.3	1874.3	1863.6	1855.7	1847.7	1842.4	1826.4	1815.8
12.5°	1858.3	1861.0	1842.4	1829.1	1834.4	1826.4	1813.1	1802.5	1797.2	1781.2	1767.9
15°	1818.4	1821.1	1799.8	1781.2	1786.5	1775.9	1760.0	1749.3	1741.3	1725.4	1706.8
17.5°	1770.6	1767.9	1744.0	1725.4	1728.1	1714.8	1698.8	1682.9	1672.2	1653.6	1640.3
20°	1717.4	1709.4	1682.9	1661.6	1664.3	1648.3	1629.7	1613.7	1600.4	1584.5	1565.9
22.5°	1651.0	1640.3	1616.4	1589.8	1592.5	1579.2	1552.6	1539.3	1526.0	1504.7	1488.8
25°	1579.2	1563.2	1539.3	1512.7	1512.7	1496.8	1475.5	1459.5	1446.2	1425.0	1406.4
27.5°	1494.1	1486.1	1454.2	1433.0	1430.3	1414.3	1395.7	1377.1	1361.2	1342.6	1324.0
30°	1401.1	1387.8	1363.8	1339.9	1334.6	1321.3	1302.7	1281.4	1270.8	1252.2	1236.2
32.5°	1302.7	1289.4	1262.8	1238.9	1236.2	1225.6	1209.6	1188.4	1177.7	1164.4	1153.8
35°	1191.0	1185.7	1159.1	1140.5	1140.5	1129.9	1113.9	1095.3	1087.3	1074.1	1060.8
37.5°	1084.7	1076.7	1052.8	1036.8	1036.8	1023.5	1007.6	999.6	991.6	981.0	973.0
40°	973.0	967.7	949.1	933.2	935.8	925.2	914.5	903.9	898.6	893.3	885.3
42.5°	869.3	864.0	850.7	837.4	837.4	829.5	818.8	810.9	805.5	797.6	794.9
45°	776.3	768.3	757.7	744.4	744.4	736.4	731.1	725.8	723.1	717.8	709.8
47.5°	685.9	680.6	670.0	656.7	656.7	656.7	646.0	638.1	638.1	632.7	630.1
50°	608.8	600.8	592.9	582.2	582.2	576.9	568.9	561.0	561.0	558.3	553.0
52.5°	537.0	531.7	521.1	510.4	510.4	505.1	497.1	494.5	491.8	483.9	481.2
55°	475.9	470.6	462.6	449.3	446.6	444.0	436.0	430.7	428.0	420.1	420.1
57.5°	420.1	414.7	401.4	393.5	390.8	385.5	377.5	372.2	369.5	364.2	358.9
60°	372.2	364.2	353.6	343.0	340.3	335.0	327.0	321.7	319.0	308.4	303.1
62.5°	327.0	319.0	308.4	297.8	295.1	289.8	279.1	273.8	268.5	257.9	252.6
65°	284.5	276.5	265.9	255.2	249.9	247.2	236.6	228.6	223.3	215.3	204.7
67.5°	244.6	236.6	226.0	212.7	212.7	204.7	196.7	188.8	180.8	172.8	164.8
70°	207.4	199.4	188.8	178.1	175.5	170.1	162.2	151.5	146.2	135.6	127.6
72.5°	172.8	164.8	154.2	143.6	140.9	135.6	127.6	117.0	109.0	101.0	93.0
75°	140.9	132.9	122.3	114.3	111.7	106.3	98.4	87.7	79.8	74.4	66.5
77.5°	111.7	103.7	95.7	87.7	85.1	79.8	71.8	66.5	58.5	53.2	45.2
80°	85.1	79.8	71.8	66.5	63.8	58.5	53.2	45.2	39.9	34.6	31.9
82.5°	61.1	55.8	50.5	42.5	42.5	37.2	34.6	29.2	23.9	21.3	18.6
85°	34.6	29.2	26.6	23.9	21.3	21.3	18.6	16.0	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°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1900.9	1903.5	1898.2	1903.5	1898.2	1900.9	1895.5	1900.9	1895.5	1900.9	1890.2
5°	1882.3	1882.3	1874.3	1879.6	1874.3	1876.9	1866.3	1869.0	1863.6	1869.0	1858.3
7.5°	1850.3	1853.0	1839.7	1845.0	1837.1	1837.1	1829.1	1831.7	1823.8	1826.4	1818.4
10°	1813.1	1810.5	1797.2	1802.5	1791.9	1791.9	1783.9	1783.9	1773.3	1775.9	1765.3
12.5°	1760.0	1757.3	1741.3	1746.7	1736.0	1736.0	1728.1	1728.1	1717.4	1722.7	1712.1
15°	1698.8	1696.2	1680.2	1682.9	1672.2	1672.2	1661.6	1664.3	1656.3	1661.6	1651.0
17.5°	1629.7	1627.0	1611.1	1613.7	1600.4	1603.1	1595.1	1592.5	1587.2	1589.8	1581.8
20°	1557.9	1552.6	1536.6	1539.3	1534.0	1526.0	1520.7	1523.3	1518.0	1523.3	1515.4
22.5°	1483.5	1472.8	1459.5	1459.5	1454.2	1454.2	1446.2	1451.6	1440.9	1448.9	1443.6
25°	1398.4	1390.4	1379.8	1385.1	1374.5	1374.5	1366.5	1369.2	1363.8	1369.2	1363.8
27.5°	1316.0	1310.7	1294.7	1300.0	1292.1	1294.7	1286.7	1289.4	1286.7	1292.1	1286.7
30°	1228.2	1225.6	1215.0	1215.0	1212.3	1209.6	1207.0	1207.0	1204.3	1212.3	1207.0
32.5°	1145.8	1137.9	1127.2	1135.2	1121.9	1129.9	1124.6	1129.9	1124.6	1129.9	1127.2
35°	1060.8	1058.1	1044.8	1047.5	1044.8	1044.8	1042.2	1042.2	1042.2	1050.1	1050.1
37.5°	970.4	967.7	959.7	962.4	957.1	954.4	954.4	959.7	959.7	965.1	965.1
40°	882.6	885.3	877.3	877.3	874.7	874.7	874.7	880.0	877.3	882.6	880.0
42.5°	794.9	794.9	786.9	789.6	786.9	789.6	789.6	794.9	794.9	797.6	794.9
45°	712.5	712.5	709.8	712.5	707.2	709.8	707.2	712.5	709.8	712.5	712.5
47.5°	630.1	630.1	630.1	627.4	627.4	627.4	627.4	627.4	624.8	630.1	627.4
50°	553.0	555.6	553.0	553.0	550.3	553.0	550.3	550.3	545.0	547.7	547.7
52.5°	483.9	483.9	478.5	478.5	478.5	475.9	475.9	475.9	473.2	473.2	467.9
55°	417.4	417.4	412.1	412.1	409.4	406.8	404.1	404.1	396.1	396.1	388.1
57.5°	356.2	353.6	345.6	345.6	340.3	337.6	335.0	332.3	327.0	321.7	319.0
60°	300.4	295.1	289.8	287.1	281.8	276.5	271.2	265.9	260.5	257.9	255.2
62.5°	247.2	239.3	234.0	231.3	226.0	218.0	212.7	207.4	202.0	199.4	194.1
65°	199.4	191.4	183.4	180.8	175.5	170.1	162.2	156.9	151.5	148.9	148.9
67.5°	156.9	148.9	138.2	138.2	132.9	127.6	122.3	117.0	114.3	117.0	117.0
70°	117.0	111.7	103.7	101.0	95.7	90.4	87.7	87.7	87.7	90.4	87.7
72.5°	87.7	79.8	74.4	71.8	69.1	66.5	66.5	66.5	63.8	66.5	66.5
75°	61.1	55.8	50.5	50.5	47.9	47.9	47.9	47.9	47.9	47.9	47.9
77.5°	42.5	37.2	34.6	34.6	34.6	31.9	31.9	31.9	31.9	31.9	31.9
80°	26.6	26.6	23.9	23.9	21.3	21.3	21.3	21.3	21.3	21.3	21.3
82.5°	16.0	16.0	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	2.7	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: P252492

CATALOG NUMBER: LD6B40D010 EU6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1890.2	1898.2	1887.6	1895.5	1892.9	1890.2	1884.9	1895.5
5°	1858.3	1861.0	1850.3	1861.0	1858.3	1853.0	1847.7	1858.3
7.5°	1813.1	1821.1	1807.8	1818.4	1815.8	1810.5	1805.2	1815.8
10°	1762.6	1770.6	1760.0	1767.9	1767.9	1762.6	1754.6	1765.3
12.5°	1706.8	1712.1	1701.5	1712.1	1709.4	1704.1	1701.5	1709.4
15°	1645.6	1653.6	1643.0	1651.0	1648.3	1645.6	1643.0	1651.0
17.5°	1579.2	1587.2	1579.2	1587.2	1587.2	1579.2	1576.5	1581.8
20°	1512.7	1518.0	1510.1	1518.0	1515.4	1515.4	1510.1	1518.0
22.5°	1438.3	1446.2	1440.9	1446.2	1443.6	1443.6	1440.9	1446.2
25°	1363.8	1371.8	1363.8	1371.8	1369.2	1369.2	1363.8	1377.1
27.5°	1289.4	1294.7	1286.7	1297.4	1294.7	1289.4	1292.1	1294.7
30°	1209.6	1215.0	1209.6	1217.6	1217.6	1217.6	1212.3	1217.6
32.5°	1129.9	1137.9	1129.9	1137.9	1135.2	1135.2	1132.5	1137.9
35°	1050.1	1052.8	1047.5	1055.4	1055.4	1058.1	1052.8	1060.8
37.5°	967.7	970.4	967.7	970.4	975.7	967.7	973.0	975.7
40°	882.6	888.0	885.3	888.0	888.0	890.6	888.0	890.6
42.5°	797.6	802.9	797.6	805.5	802.9	802.9	805.5	805.5
45°	709.8	717.8	712.5	717.8	720.5	717.8	717.8	723.1
47.5°	627.4	632.7	630.1	632.7	632.7	632.7	632.7	638.1
50°	545.0	547.7	547.7	550.3	550.3	553.0	547.7	550.3
52.5°	462.6	467.9	467.9	467.9	465.2	467.9	467.9	467.9
55°	388.1	390.8	385.5	390.8	390.8	388.1	388.1	393.5
57.5°	316.4	316.4	316.4	316.4	316.4	313.7	316.4	316.4
60°	249.9	252.6	249.9	249.9	249.9	249.9	247.2	252.6
62.5°	194.1	194.1	191.4	194.1	194.1	194.1	196.7	196.7
65°	151.5	154.2	151.5	154.2	154.2	154.2	154.2	156.9
67.5°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
70°	90.4	90.4	90.4	93.0	90.4	90.4	90.4	93.0
72.5°	66.5	66.5	66.5	66.5	66.5	66.5	69.1	69.1
75°	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
77.5°	31.9	31.9	31.9	34.6	31.9	34.6	31.9	31.9
80°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
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)