

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: P252495

Luminaire Tested: **LD6B40D010 EU6B30508040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252495
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 EU6B30508040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3674.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

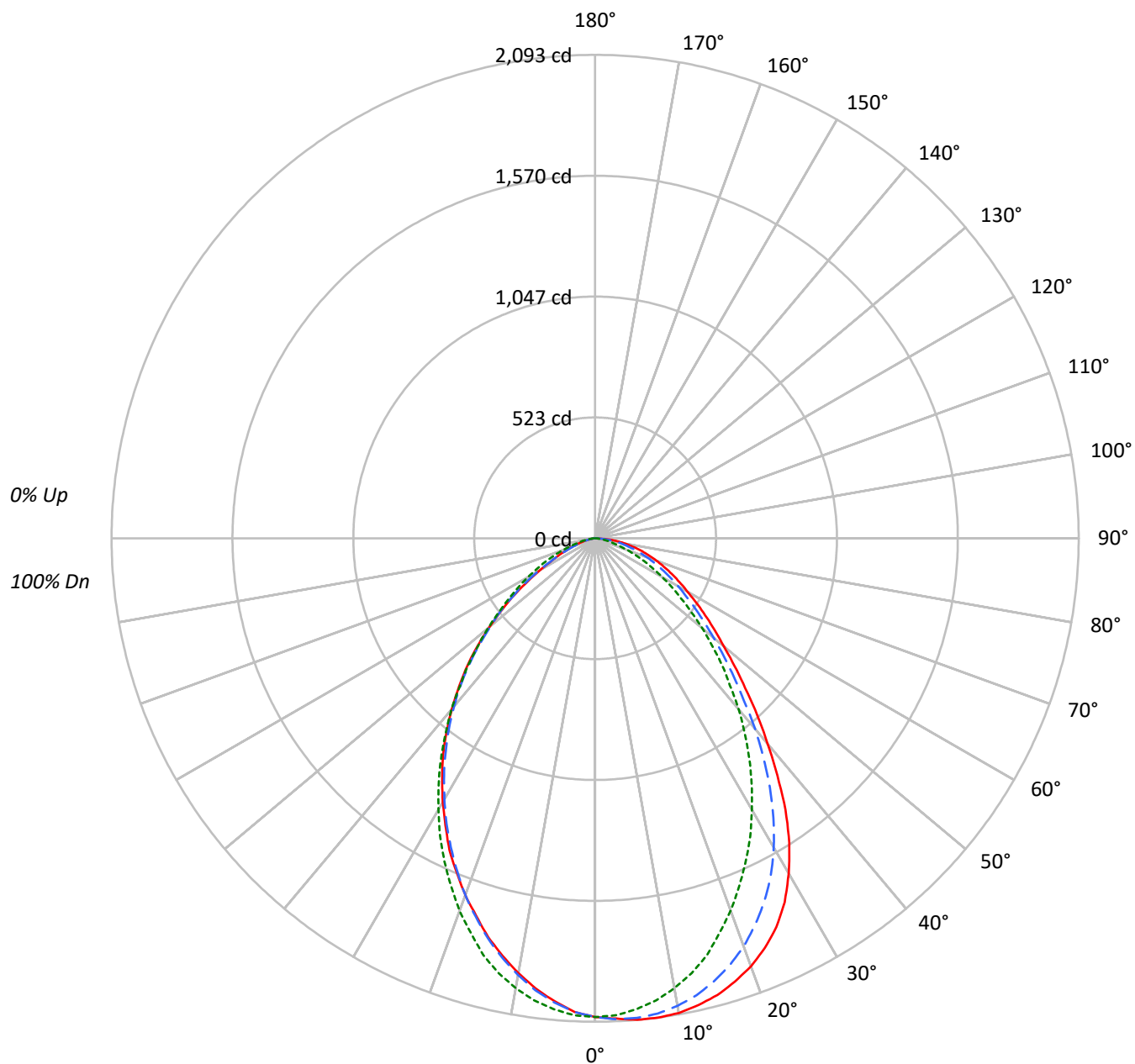
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	135224	135224	135224
5°	137057	134045	131779
10°	138264	131017	126631
15°	138245	126189	120745
20°	136904	119117	114125
25°	133662	111073	107344
30°	126214	102145	99327
35°	114409	92626	91479
40°	98801	82381	82134
45°	84726	71717	72243
50°	73625	61355	60482
55°	66142	51731	48466
60°	60100	43568	35687
65°	56439	36000	26212
70°	53811	28002	19228
75°	51523	20317	13057
80°	48654	14051	8641
85°	43117	8608	4342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	5.3
10°-20°	531.0	14.5
20°-30°	737.2	20.1
30°-40°	763.6	20.8
40°-50°	627.5	17.1
50°-60°	431.3	11.7
60°-70°	247.9	6.7
70°-80°	114.0	3.1
80°-90°	27.8	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°	1462.1	39.8
0°-40°	2225.7	60.6
0°-60°	3284.4	89.4
0°-90°	3674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3674.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2073	2073	2073	2073	2073	
5°	2093	2084	2047	2018	2012	199
15°	2047	1986	1868	1793	1788	576
25°	1857	1733	1543	1477	1491	850
35°	1436	1318	1163	1128	1149	891
45°	918	849	777	769	783	715
55°	582	527	455	429	426	523
65°	366	320	233	164	170	364
75°	204	161	81	52	52	216
85°	58	40	12	6	6	65
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°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2081.3	2098.6	2087.1	2084.2	2090.0	2090.0	2090.0	2081.3	2087.1	2078.4	2084.2
5°	2092.8	2107.2	2095.7	2090.0	2095.7	2098.6	2090.0	2084.2	2092.8	2081.3	2084.2
7.5°	2092.8	2107.2	2095.7	2092.8	2095.7	2095.7	2092.8	2081.3	2087.1	2075.6	2075.6
10°	2087.1	2098.6	2087.1	2081.3	2084.2	2081.3	2081.3	2066.9	2069.8	2055.4	2055.4
12.5°	2069.8	2084.2	2069.8	2064.0	2064.0	2064.0	2055.4	2043.9	2046.8	2029.5	2026.6
15°	2046.8	2058.3	2043.9	2038.1	2038.1	2035.3	2029.5	2012.2	2012.2	1995.0	1986.3
17.5°	2012.2	2023.7	2012.2	2003.6	2000.7	1995.0	1989.2	1971.9	1966.2	1946.0	1937.4
20°	1971.9	1980.6	1969.0	1960.4	1954.7	1948.9	1937.4	1920.1	1914.4	1894.2	1879.8
22.5°	1920.1	1931.6	1914.4	1905.7	1900.0	1891.3	1879.8	1862.5	1853.9	1828.0	1810.7
25°	1856.8	1862.5	1848.1	1839.5	1828.0	1822.2	1813.6	1790.6	1781.9	1753.1	1733.0
27.5°	1776.2	1781.9	1764.7	1758.9	1744.5	1738.7	1727.2	1707.1	1695.6	1666.8	1646.6
30°	1675.4	1681.2	1669.7	1661.0	1649.5	1638.0	1629.4	1609.2	1591.9	1563.1	1545.9
32.5°	1563.1	1571.8	1560.3	1548.8	1528.6	1531.5	1517.1	1496.9	1482.5	1456.6	1436.5
35°	1436.5	1442.2	1427.8	1425.0	1413.5	1401.9	1387.5	1373.2	1364.5	1335.7	1318.5
37.5°	1295.4	1309.8	1295.4	1283.9	1278.2	1269.5	1260.9	1240.7	1235.0	1217.7	1194.7
40°	1160.1	1168.8	1160.1	1148.6	1140.0	1140.0	1128.5	1116.9	1102.6	1085.3	1076.6
42.5°	1039.2	1033.5	1030.6	1024.8	1013.3	1010.4	1007.6	993.2	984.5	967.3	952.9
45°	918.3	921.2	915.4	912.6	903.9	898.2	892.4	880.9	878.0	860.7	849.2
47.5°	817.6	814.7	808.9	808.9	803.2	797.4	791.6	783.0	780.1	765.7	754.2
50°	725.4	728.3	725.4	722.6	713.9	711.0	705.3	699.5	693.8	679.4	667.9
52.5°	650.6	647.7	644.8	644.8	636.2	633.3	627.6	621.8	616.0	601.7	593.0
55°	581.5	581.5	578.6	575.7	567.1	564.2	561.4	555.6	547.0	535.4	526.8
57.5°	518.2	518.2	515.3	512.4	506.7	506.7	500.9	495.1	489.4	477.9	466.4
60°	460.6	463.5	460.6	457.7	452.0	452.0	449.1	440.4	437.6	423.2	414.5
62.5°	411.7	411.7	411.7	408.8	405.9	400.1	400.1	391.5	385.7	377.1	365.6
65°	365.6	365.6	365.6	362.7	357.0	354.1	351.2	345.4	339.7	331.1	319.5
67.5°	322.4	322.4	322.4	319.5	313.8	310.9	308.0	305.1	296.5	287.9	276.4
70°	282.1	282.1	279.2	276.4	273.5	270.6	267.7	262.0	256.2	244.7	236.1
72.5°	241.8	241.8	241.8	236.1	233.2	233.2	227.4	224.5	218.8	207.3	198.6
75°	204.4	201.5	201.5	198.6	195.8	192.9	190.0	187.1	178.5	172.7	161.2
77.5°	167.0	167.0	164.1	161.2	161.2	158.3	155.5	149.7	146.8	138.2	129.5
80°	129.5	129.5	129.5	129.5	126.7	123.8	123.8	118.0	115.1	106.5	100.8
82.5°	97.9	95.0	95.0	95.0	92.1	89.2	89.2	86.4	83.5	77.7	72.0
85°	57.6	54.7	54.7	54.7	51.8	51.8	48.9	48.9	46.1	40.3	40.3
87.5°	17.3	17.3	20.2	20.2	17.3	17.3	17.3	17.3	17.3	14.4	14.4
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°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2078.4	2087.1	2075.6	2072.7	2084.2	2078.4	2075.6	2069.8	2072.7	2066.9	2058.3
5°	2075.6	2087.1	2072.7	2064.0	2078.4	2069.8	2064.0	2058.3	2058.3	2046.8	2041.0
7.5°	2066.9	2072.7	2058.3	2049.7	2058.3	2049.7	2043.9	2035.3	2032.4	2018.0	2009.3
10°	2043.9	2049.7	2032.4	2020.9	2029.5	2018.0	2009.3	2000.7	1995.0	1977.7	1966.2
12.5°	2012.2	2015.1	1995.0	1980.6	1986.3	1977.7	1963.3	1951.8	1946.0	1928.7	1914.4
15°	1969.0	1971.9	1948.9	1928.7	1934.5	1923.0	1905.7	1894.2	1885.6	1868.3	1848.1
17.5°	1917.2	1914.4	1888.4	1868.3	1871.2	1856.8	1839.5	1822.2	1810.7	1790.6	1776.2
20°	1859.7	1851.0	1822.2	1799.2	1802.1	1784.8	1764.7	1747.4	1733.0	1715.7	1695.6
22.5°	1787.7	1776.2	1750.3	1721.5	1724.4	1710.0	1681.2	1666.8	1652.4	1629.4	1612.1
25°	1710.0	1692.7	1666.8	1638.0	1638.0	1620.7	1597.7	1580.4	1566.0	1543.0	1522.8
27.5°	1617.8	1609.2	1574.7	1551.6	1548.8	1531.5	1511.3	1491.2	1473.9	1453.8	1433.6
30°	1517.1	1502.7	1476.8	1450.9	1445.1	1430.7	1410.6	1387.5	1376.0	1355.9	1338.6
32.5°	1410.6	1396.2	1367.4	1341.5	1338.6	1327.1	1309.8	1286.8	1275.3	1260.9	1249.4
35°	1289.7	1283.9	1255.1	1235.0	1235.0	1223.5	1206.2	1186.0	1177.4	1163.0	1148.6
37.5°	1174.5	1165.9	1140.0	1122.7	1122.7	1108.3	1091.0	1082.4	1073.8	1062.2	1053.6
40°	1053.6	1047.9	1027.7	1010.4	1013.3	1001.8	990.3	978.8	973.0	967.3	958.6
42.5°	941.3	935.6	921.2	906.8	906.8	898.2	886.6	878.0	872.3	863.6	860.7
45°	840.6	832.0	820.4	806.0	806.0	797.4	791.6	785.9	783.0	777.3	768.6
47.5°	742.7	737.0	725.4	711.0	711.0	711.0	699.5	690.9	690.9	685.1	682.3
50°	659.2	650.6	642.0	630.4	630.4	624.7	616.0	607.4	607.4	604.5	598.8
52.5°	581.5	575.7	564.2	552.7	552.7	547.0	538.3	535.4	532.6	523.9	521.0
55°	515.3	509.5	500.9	486.5	483.6	480.7	472.1	466.4	463.5	454.8	454.8
57.5°	454.8	449.1	434.7	426.1	423.2	417.4	408.8	403.0	400.1	394.4	388.6
60°	403.0	394.4	382.9	371.4	368.5	362.7	354.1	348.3	345.4	333.9	328.2
62.5°	354.1	345.4	333.9	322.4	319.5	313.8	302.3	296.5	290.8	279.2	273.5
65°	308.0	299.4	287.9	276.4	270.6	267.7	256.2	247.6	241.8	233.2	221.7
67.5°	264.8	256.2	244.7	230.3	230.3	221.7	213.0	204.4	195.8	187.1	178.5
70°	224.5	215.9	204.4	192.9	190.0	184.2	175.6	164.1	158.3	146.8	138.2
72.5°	187.1	178.5	167.0	155.5	152.6	146.8	138.2	126.7	118.0	109.4	100.8
75°	152.6	143.9	132.4	123.8	120.9	115.1	106.5	95.0	86.4	80.6	72.0
77.5°	120.9	112.3	103.6	95.0	92.1	86.4	77.7	72.0	63.3	57.6	48.9
80°	92.1	86.4	77.7	72.0	69.1	63.3	57.6	48.9	43.2	37.4	34.5
82.5°	66.2	60.5	54.7	46.1	46.1	40.3	37.4	31.7	25.9	23.0	20.2
85°	37.4	31.7	28.8	25.9	23.0	23.0	20.2	17.3	14.4	11.5	11.5
87.5°	11.5	11.5	8.6	8.6	8.6	8.6	5.8	5.8	5.8	5.8	5.8
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°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2058.3	2061.2	2055.4	2061.2	2055.4	2058.3	2052.5	2058.3	2052.5	2058.3	2046.8
5°	2038.1	2038.1	2029.5	2035.3	2029.5	2032.4	2020.9	2023.7	2018.0	2023.7	2012.2
7.5°	2003.6	2006.5	1992.1	1997.8	1989.2	1989.2	1980.6	1983.4	1974.8	1977.7	1969.0
10°	1963.3	1960.4	1946.0	1951.8	1940.3	1940.3	1931.6	1931.6	1920.1	1923.0	1911.5
12.5°	1905.7	1902.8	1885.6	1891.3	1879.8	1879.8	1871.2	1871.2	1859.7	1865.4	1853.9
15°	1839.5	1836.6	1819.4	1822.2	1810.7	1810.7	1799.2	1802.1	1793.4	1799.2	1787.7
17.5°	1764.7	1761.8	1744.5	1747.4	1733.0	1735.9	1727.2	1724.4	1718.6	1721.5	1712.8
20°	1686.9	1681.2	1663.9	1666.8	1661.0	1652.4	1646.6	1649.5	1643.8	1649.5	1640.9
22.5°	1606.3	1594.8	1580.4	1580.4	1574.7	1574.7	1566.0	1571.8	1560.3	1568.9	1563.1
25°	1514.2	1505.6	1494.1	1499.8	1488.3	1488.3	1479.7	1482.5	1476.8	1482.5	1476.8
27.5°	1425.0	1419.2	1401.9	1407.7	1399.1	1401.9	1393.3	1396.2	1393.3	1399.1	1393.3
30°	1330.0	1327.1	1315.6	1315.6	1312.7	1309.8	1306.9	1306.9	1304.1	1312.7	1306.9
32.5°	1240.7	1232.1	1220.6	1229.2	1214.8	1223.5	1217.7	1223.5	1217.7	1223.5	1220.6
35°	1148.6	1145.7	1131.3	1134.2	1131.3	1131.3	1128.5	1128.5	1128.5	1137.1	1137.1
37.5°	1050.7	1047.9	1039.2	1042.1	1036.3	1033.5	1033.5	1039.2	1039.2	1045.0	1045.0
40°	955.7	958.6	950.0	950.0	947.1	947.1	947.1	952.9	950.0	955.7	952.9
42.5°	860.7	860.7	852.1	855.0	852.1	855.0	855.0	860.7	860.7	863.6	860.7
45°	771.5	771.5	768.6	771.5	765.7	768.6	765.7	771.5	768.6	771.5	771.5
47.5°	682.3	682.3	682.3	679.4	679.4	679.4	679.4	679.4	676.5	682.3	679.4
50°	598.8	601.7	598.8	598.8	595.9	598.8	595.9	595.9	590.1	593.0	593.0
52.5°	523.9	523.9	518.2	518.2	518.2	515.3	515.3	515.3	512.4	512.4	506.7
55°	452.0	452.0	446.2	446.2	443.3	440.4	437.6	437.6	428.9	428.9	420.3
57.5°	385.7	382.9	374.2	374.2	368.5	365.6	362.7	359.8	354.1	348.3	345.4
60°	325.3	319.5	313.8	310.9	305.1	299.4	293.6	287.9	282.1	279.2	276.4
62.5°	267.7	259.1	253.3	250.4	244.7	236.1	230.3	224.5	218.8	215.9	210.1
65°	215.9	207.3	198.6	195.8	190.0	184.2	175.6	169.8	164.1	161.2	161.2
67.5°	169.8	161.2	149.7	149.7	143.9	138.2	132.4	126.7	123.8	126.7	126.7
70°	126.7	120.9	112.3	109.4	103.6	97.9	95.0	95.0	95.0	97.9	95.0
72.5°	95.0	86.4	80.6	77.7	74.8	72.0	72.0	72.0	69.1	72.0	72.0
75°	66.2	60.5	54.7	54.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8
77.5°	46.1	40.3	37.4	37.4	37.4	34.5	34.5	34.5	34.5	34.5	34.5
80°	28.8	28.8	25.9	25.9	23.0	23.0	23.0	23.0	23.0	23.0	23.0
82.5°	17.3	17.3	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
85°	8.6	8.6	8.6	8.6	8.6	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	2.9	2.9	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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: P252495

CATALOG NUMBER: LD6B40D010 EU6B30508040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2046.8	2055.4	2043.9	2052.5	2049.7	2046.8	2041.0	2052.5
5°	2012.2	2015.1	2003.6	2015.1	2012.2	2006.5	2000.7	2012.2
7.5°	1963.3	1971.9	1957.5	1969.0	1966.2	1960.4	1954.7	1966.2
10°	1908.6	1917.2	1905.7	1914.4	1914.4	1908.6	1900.0	1911.5
12.5°	1848.1	1853.9	1842.4	1853.9	1851.0	1845.3	1842.4	1851.0
15°	1781.9	1790.6	1779.1	1787.7	1784.8	1781.9	1779.1	1787.7
17.5°	1710.0	1718.6	1710.0	1718.6	1718.6	1710.0	1707.1	1712.8
20°	1638.0	1643.8	1635.1	1643.8	1640.9	1640.9	1635.1	1643.8
22.5°	1557.4	1566.0	1560.3	1566.0	1563.1	1563.1	1560.3	1566.0
25°	1476.8	1485.4	1476.8	1485.4	1482.5	1482.5	1476.8	1491.2
27.5°	1396.2	1401.9	1393.3	1404.8	1401.9	1396.2	1399.1	1401.9
30°	1309.8	1315.6	1309.8	1318.5	1318.5	1318.5	1312.7	1318.5
32.5°	1223.5	1232.1	1223.5	1232.1	1229.2	1229.2	1226.3	1232.1
35°	1137.1	1140.0	1134.2	1142.9	1142.9	1145.7	1140.0	1148.6
37.5°	1047.9	1050.7	1047.9	1050.7	1056.5	1047.9	1053.6	1056.5
40°	955.7	961.5	958.6	961.5	961.5	964.4	961.5	964.4
42.5°	863.6	869.4	863.6	872.3	869.4	869.4	872.3	872.3
45°	768.6	777.3	771.5	777.3	780.1	777.3	777.3	783.0
47.5°	679.4	685.1	682.3	685.1	685.1	685.1	685.1	690.9
50°	590.1	593.0	593.0	595.9	595.9	598.8	593.0	595.9
52.5°	500.9	506.7	506.7	506.7	503.8	506.7	506.7	506.7
55°	420.3	423.2	417.4	423.2	423.2	420.3	420.3	426.1
57.5°	342.6	342.6	342.6	342.6	342.6	339.7	342.6	342.6
60°	270.6	273.5	270.6	270.6	270.6	270.6	267.7	273.5
62.5°	210.1	210.1	207.3	210.1	210.1	210.1	213.0	213.0
65°	164.1	167.0	164.1	167.0	167.0	167.0	167.0	169.8
67.5°	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5
70°	97.9	97.9	97.9	100.8	97.9	97.9	97.9	100.8
72.5°	72.0	72.0	72.0	72.0	72.0	72.0	74.8	74.8
75°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
77.5°	34.5	34.5	34.5	37.4	34.5	37.4	34.5	34.5
80°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
82.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9
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)