

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: P252496

Luminaire Tested: **LD6B40D010 EU6B30508050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252496
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 EU6B30508050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.0 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

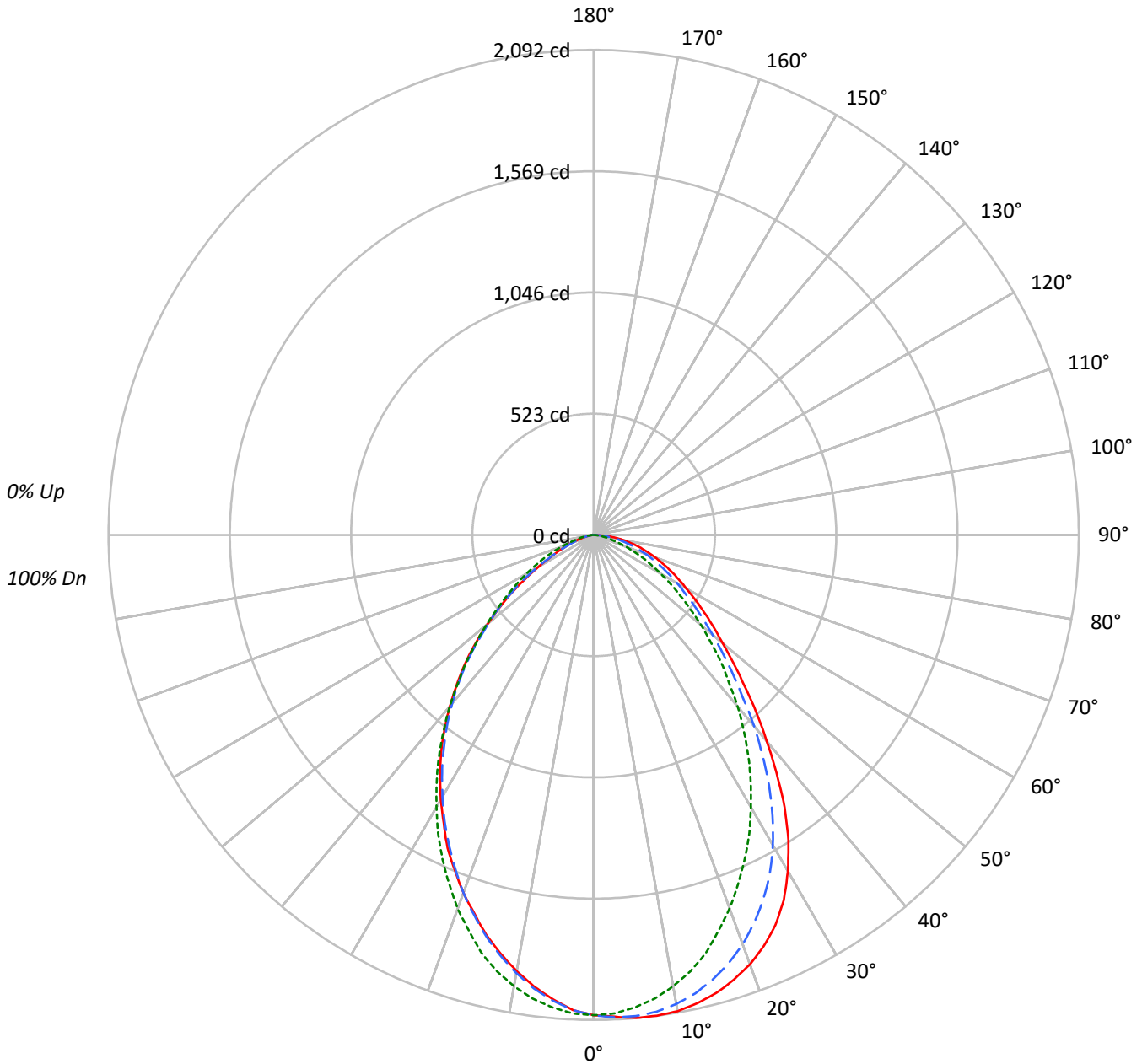
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	135152	135152	135152
5°	136985	133973	131707
10°	138185	130944	126558
15°	138171	126121	120677
20°	136835	119054	114063
25°	133590	111015	107287
30°	126146	102084	99267
35°	114345	92578	91431
40°	98750	82330	82083
45°	84680	71671	72206
50°	73585	61324	60451
55°	66108	51708	48432
60°	60061	43542	35661
65°	56408	35969	26212
70°	53792	27983	19209
75°	51498	20317	13057
80°	48654	14051	8641
85°	43042	8608	4342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	5.3
10°-20°	530.7	14.5
20°-30°	736.8	20.1
30°-40°	763.2	20.8
40°-50°	627.1	17.1
50°-60°	431.0	11.7
60°-70°	247.8	6.7
70°-80°	113.9	3.1
80°-90°	27.7	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°	1461.3	39.8
0°-40°	2224.4	60.6
0°-60°	3282.6	89.4
0°-90°	3672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2072	2072	2072	2072	2072	
5°	2092	2083	2046	2017	2011	199
15°	2046	1985	1867	1792	1787	576
25°	1856	1732	1542	1476	1490	849
35°	1436	1318	1162	1128	1148	890
45°	918	849	777	768	783	715
55°	581	526	455	429	426	523
65°	365	319	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°	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6
2.5°	2080.2	2097.4	2085.9	2083.1	2088.8	2088.8	2088.8	2080.2	2085.9	2077.3	2083.1
5°	2091.7	2106.1	2094.6	2088.8	2094.6	2097.4	2088.8	2083.1	2091.7	2080.2	2083.1
7.5°	2091.7	2106.1	2094.6	2091.7	2094.6	2094.6	2091.7	2080.2	2085.9	2074.4	2074.4
10°	2085.9	2097.4	2085.9	2080.2	2083.1	2080.2	2080.2	2065.8	2068.7	2054.3	2054.3
12.5°	2068.7	2083.1	2068.7	2062.9	2062.9	2062.9	2054.3	2042.8	2045.7	2028.4	2025.5
15°	2045.7	2057.2	2042.8	2037.0	2037.0	2034.1	2028.4	2011.1	2011.1	1993.9	1985.2
17.5°	2011.1	2022.6	2011.1	2002.5	1999.6	1993.9	1988.1	1970.9	1965.1	1945.0	1936.3
20°	1970.9	1979.5	1968.0	1959.3	1953.6	1947.8	1936.3	1919.1	1913.3	1893.2	1878.8
22.5°	1919.1	1930.6	1913.3	1904.7	1898.9	1890.3	1878.8	1861.5	1852.9	1827.0	1809.7
25°	1855.8	1861.5	1847.1	1838.5	1827.0	1821.2	1812.6	1789.6	1781.0	1752.2	1732.0
27.5°	1775.2	1781.0	1763.7	1757.9	1743.6	1737.8	1726.3	1706.2	1694.6	1665.9	1645.7
30°	1674.5	1680.3	1668.7	1660.1	1648.6	1637.1	1628.5	1608.3	1591.1	1562.3	1545.0
32.5°	1562.3	1570.9	1559.4	1547.9	1527.8	1530.6	1516.3	1496.1	1481.7	1455.8	1435.7
35°	1435.7	1441.5	1427.1	1424.2	1412.7	1401.2	1386.8	1372.4	1363.8	1335.0	1317.7
37.5°	1294.7	1309.1	1294.7	1283.2	1277.5	1268.8	1260.2	1240.1	1234.3	1217.0	1194.0
40°	1159.5	1168.1	1159.5	1148.0	1139.4	1139.4	1127.8	1116.3	1102.0	1084.7	1076.1
42.5°	1038.7	1032.9	1030.0	1024.3	1012.8	1009.9	1007.0	992.6	984.0	966.7	952.3
45°	917.8	920.7	914.9	912.1	903.4	897.7	891.9	880.4	877.5	860.3	848.8
47.5°	817.1	814.2	808.5	808.5	802.7	797.0	791.2	782.6	779.7	765.3	753.8
50°	725.0	727.9	725.0	722.2	713.5	710.7	704.9	699.1	693.4	679.0	667.5
52.5°	650.2	647.4	644.5	644.5	635.9	633.0	627.2	621.5	615.7	601.3	592.7
55°	581.2	581.2	578.3	575.4	566.8	563.9	561.0	555.3	546.7	535.2	526.5
57.5°	517.9	517.9	515.0	512.1	506.4	506.4	500.6	494.9	489.1	477.6	466.1
60°	460.3	463.2	460.3	457.5	451.7	451.7	448.8	440.2	437.3	422.9	414.3
62.5°	411.4	411.4	411.4	408.6	405.7	399.9	399.9	391.3	385.5	376.9	365.4
65°	365.4	365.4	365.4	362.5	356.8	353.9	351.0	345.3	339.5	330.9	319.4
67.5°	322.2	322.2	322.2	319.4	313.6	310.7	307.9	305.0	296.3	287.7	276.2
70°	282.0	282.0	279.1	276.2	273.3	270.5	267.6	261.8	256.1	244.6	235.9
72.5°	241.7	241.7	241.7	235.9	233.0	233.0	227.3	224.4	218.7	207.2	198.5
75°	204.3	201.4	201.4	198.5	195.6	192.8	189.9	187.0	178.4	172.6	161.1
77.5°	166.9	166.9	164.0	161.1	161.1	158.2	155.4	149.6	146.7	138.1	129.5
80°	129.5	129.5	129.5	129.5	126.6	123.7	123.7	118.0	115.1	106.5	100.7
82.5°	97.8	94.9	94.9	94.9	92.1	89.2	89.2	86.3	83.4	77.7	71.9
85°	57.5	54.7	54.7	54.7	51.8	51.8	48.9	48.9	46.0	40.3	40.3
87.5°	17.3	17.3	20.1	20.1	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°	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6
2.5°	2077.3	2085.9	2074.4	2071.6	2083.1	2077.3	2074.4	2068.7	2071.6	2065.8	2057.2
5°	2074.4	2085.9	2071.6	2062.9	2077.3	2068.7	2062.9	2057.2	2057.2	2045.7	2039.9
7.5°	2065.8	2071.6	2057.2	2048.5	2057.2	2048.5	2042.8	2034.1	2031.3	2016.9	2008.3
10°	2042.8	2048.5	2031.3	2019.8	2028.4	2016.9	2008.3	1999.6	1993.9	1976.6	1965.1
12.5°	2011.1	2014.0	1993.9	1979.5	1985.2	1976.6	1962.2	1950.7	1945.0	1927.7	1913.3
15°	1968.0	1970.9	1947.8	1927.7	1933.4	1921.9	1904.7	1893.2	1884.5	1867.3	1847.1
17.5°	1916.2	1913.3	1887.4	1867.3	1870.2	1855.8	1838.5	1821.2	1809.7	1789.6	1775.2
20°	1858.6	1850.0	1821.2	1798.2	1801.1	1783.8	1763.7	1746.4	1732.0	1714.8	1694.6
22.5°	1786.7	1775.2	1749.3	1720.5	1723.4	1709.0	1680.3	1665.9	1651.5	1628.5	1611.2
25°	1709.0	1691.8	1665.9	1637.1	1637.1	1619.8	1596.8	1579.6	1565.2	1542.2	1522.0
27.5°	1617.0	1608.3	1573.8	1550.8	1547.9	1530.6	1510.5	1490.4	1473.1	1453.0	1432.8
30°	1516.3	1501.9	1476.0	1450.1	1444.3	1429.9	1409.8	1386.8	1375.3	1355.1	1337.9
32.5°	1409.8	1395.4	1366.6	1340.8	1337.9	1326.4	1309.1	1286.1	1274.6	1260.2	1248.7
35°	1289.0	1283.2	1254.4	1234.3	1234.3	1222.8	1205.5	1185.4	1176.8	1162.4	1148.0
37.5°	1173.9	1165.2	1139.4	1122.1	1122.1	1107.7	1090.4	1081.8	1073.2	1061.7	1053.0
40°	1053.0	1047.3	1027.1	1009.9	1012.8	1001.2	989.7	978.2	972.5	966.7	958.1
42.5°	940.8	935.1	920.7	906.3	906.3	897.7	886.2	877.5	871.8	863.1	860.3
45°	840.1	831.5	820.0	805.6	805.6	797.0	791.2	785.5	782.6	776.8	768.2
47.5°	742.3	736.6	725.0	710.7	710.7	710.7	699.1	690.5	690.5	684.8	681.9
50°	658.9	650.2	641.6	630.1	630.1	624.3	615.7	607.1	607.1	604.2	598.4
52.5°	581.2	575.4	563.9	552.4	552.4	546.7	538.0	535.2	532.3	523.6	520.8
55°	515.0	509.3	500.6	486.2	483.4	480.5	471.9	466.1	463.2	454.6	454.6
57.5°	454.6	448.8	434.5	425.8	422.9	417.2	408.6	402.8	399.9	394.2	388.4
60°	402.8	394.2	382.7	371.2	368.3	362.5	353.9	348.1	345.3	333.7	328.0
62.5°	353.9	345.3	333.7	322.2	319.4	313.6	302.1	296.3	290.6	279.1	273.3
65°	307.9	299.2	287.7	276.2	270.5	267.6	256.1	247.4	241.7	233.0	221.5
67.5°	264.7	256.1	244.6	230.2	230.2	221.5	212.9	204.3	195.6	187.0	178.4
70°	224.4	215.8	204.3	192.8	189.9	184.1	175.5	164.0	158.2	146.7	138.1
72.5°	187.0	178.4	166.9	155.4	152.5	146.7	138.1	126.6	118.0	109.3	100.7
75°	152.5	143.9	132.3	123.7	120.8	115.1	106.5	94.9	86.3	80.6	71.9
77.5°	120.8	112.2	103.6	94.9	92.1	86.3	77.7	71.9	63.3	57.5	48.9
80°	92.1	86.3	77.7	71.9	69.1	63.3	57.5	48.9	43.2	37.4	34.5
82.5°	66.2	60.4	54.7	46.0	46.0	40.3	37.4	31.6	25.9	23.0	20.1
85°	37.4	31.6	28.8	25.9	23.0	23.0	20.1	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°	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6
2.5°	2057.2	2060.0	2054.3	2060.0	2054.3	2057.2	2051.4	2057.2	2051.4	2057.2	2045.7
5°	2037.0	2037.0	2028.4	2034.1	2028.4	2031.3	2019.8	2022.6	2016.9	2022.6	2011.1
7.5°	2002.5	2005.4	1991.0	1996.7	1988.1	1988.1	1979.5	1982.4	1973.7	1976.6	1968.0
10°	1962.2	1959.3	1945.0	1950.7	1939.2	1939.2	1930.6	1930.6	1919.1	1921.9	1910.4
12.5°	1904.7	1901.8	1884.5	1890.3	1878.8	1878.8	1870.2	1870.2	1858.6	1864.4	1852.9
15°	1838.5	1835.6	1818.4	1821.2	1809.7	1809.7	1798.2	1801.1	1792.5	1798.2	1786.7
17.5°	1763.7	1760.8	1743.6	1746.4	1732.0	1734.9	1726.3	1723.4	1717.7	1720.5	1711.9
20°	1686.0	1680.3	1663.0	1665.9	1660.1	1651.5	1645.7	1648.6	1642.9	1648.6	1640.0
22.5°	1605.5	1593.9	1579.6	1579.6	1573.8	1573.8	1565.2	1570.9	1559.4	1568.0	1562.3
25°	1513.4	1504.8	1493.2	1499.0	1487.5	1487.5	1478.9	1481.7	1476.0	1481.7	1476.0
27.5°	1424.2	1418.4	1401.2	1406.9	1398.3	1401.2	1392.5	1395.4	1392.5	1398.3	1392.5
30°	1329.2	1326.4	1314.9	1314.9	1312.0	1309.1	1306.2	1306.2	1303.4	1312.0	1306.2
32.5°	1240.1	1231.4	1219.9	1228.5	1214.2	1222.8	1217.0	1222.8	1217.0	1222.8	1219.9
35°	1148.0	1145.1	1130.7	1133.6	1130.7	1130.7	1127.8	1127.8	1127.8	1136.5	1136.5
37.5°	1050.2	1047.3	1038.7	1041.5	1035.8	1032.9	1032.9	1038.7	1038.7	1044.4	1044.4
40°	955.2	958.1	949.5	949.5	946.6	946.6	946.6	952.3	949.5	955.2	952.3
42.5°	860.3	860.3	851.6	854.5	851.6	854.5	854.5	860.3	860.3	863.1	860.3
45°	771.1	771.1	768.2	771.1	765.3	768.2	765.3	771.1	768.2	771.1	771.1
47.5°	681.9	681.9	681.9	679.0	679.0	679.0	679.0	679.0	676.1	681.9	679.0
50°	598.4	601.3	598.4	598.4	595.6	598.4	595.6	595.6	589.8	592.7	592.7
52.5°	523.6	523.6	517.9	517.9	517.9	515.0	515.0	515.0	512.1	512.1	506.4
55°	451.7	451.7	446.0	446.0	443.1	440.2	437.3	437.3	428.7	428.7	420.1
57.5°	385.5	382.7	374.0	374.0	368.3	365.4	362.5	359.6	353.9	348.1	345.3
60°	325.1	319.4	313.6	310.7	305.0	299.2	293.5	287.7	282.0	279.1	276.2
62.5°	267.6	258.9	253.2	250.3	244.6	235.9	230.2	224.4	218.7	215.8	210.0
65°	215.8	207.2	198.5	195.6	189.9	184.1	175.5	169.8	164.0	161.1	161.1
67.5°	169.8	161.1	149.6	149.6	143.9	138.1	132.3	126.6	123.7	126.6	126.6
70°	126.6	120.8	112.2	109.3	103.6	97.8	94.9	94.9	94.9	97.8	94.9
72.5°	94.9	86.3	80.6	77.7	74.8	71.9	71.9	71.9	69.1	71.9	71.9
75°	66.2	60.4	54.7	54.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8
77.5°	46.0	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: P252496

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6	2071.6
2.5°	2045.7	2054.3	2042.8	2051.4	2048.5	2045.7	2039.9	2051.4
5°	2011.1	2014.0	2002.5	2014.0	2011.1	2005.4	1999.6	2011.1
7.5°	1962.2	1970.9	1956.5	1968.0	1965.1	1959.3	1953.6	1965.1
10°	1907.6	1916.2	1904.7	1913.3	1913.3	1907.6	1898.9	1910.4
12.5°	1847.1	1852.9	1841.4	1852.9	1850.0	1844.3	1841.4	1850.0
15°	1781.0	1789.6	1778.1	1786.7	1783.8	1781.0	1778.1	1786.7
17.5°	1709.0	1717.7	1709.0	1717.7	1717.7	1709.0	1706.2	1711.9
20°	1637.1	1642.9	1634.2	1642.9	1640.0	1640.0	1634.2	1642.9
22.5°	1556.5	1565.2	1559.4	1565.2	1562.3	1562.3	1559.4	1565.2
25°	1476.0	1484.6	1476.0	1484.6	1481.7	1481.7	1476.0	1490.4
27.5°	1395.4	1401.2	1392.5	1404.1	1401.2	1395.4	1398.3	1401.2
30°	1309.1	1314.9	1309.1	1317.7	1317.7	1317.7	1312.0	1317.7
32.5°	1222.8	1231.4	1222.8	1231.4	1228.5	1228.5	1225.7	1231.4
35°	1136.5	1139.4	1133.6	1142.2	1142.2	1145.1	1139.4	1148.0
37.5°	1047.3	1050.2	1047.3	1050.2	1055.9	1047.3	1053.0	1055.9
40°	955.2	961.0	958.1	961.0	961.0	963.8	961.0	963.8
42.5°	863.1	868.9	863.1	871.8	868.9	868.9	871.8	871.8
45°	768.2	776.8	771.1	776.8	779.7	776.8	776.8	782.6
47.5°	679.0	684.8	681.9	684.8	684.8	684.8	684.8	690.5
50°	589.8	592.7	592.7	595.6	595.6	598.4	592.7	595.6
52.5°	500.6	506.4	506.4	506.4	503.5	506.4	506.4	506.4
55°	420.1	422.9	417.2	422.9	422.9	420.1	420.1	425.8
57.5°	342.4	342.4	342.4	342.4	342.4	339.5	342.4	342.4
60°	270.5	273.3	270.5	270.5	270.5	270.5	267.6	273.3
62.5°	210.0	210.0	207.2	210.0	210.0	210.0	212.9	212.9
65°	164.0	166.9	164.0	166.9	166.9	166.9	166.9	169.8
67.5°	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5
70°	97.8	97.8	97.8	100.7	97.8	97.8	97.8	100.7
72.5°	71.9	71.9	71.9	71.9	71.9	71.9	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)