

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: P252493

Luminaire Tested: **LD6B40D010 EU6B30508030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252493
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 EU6B30508030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3547.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

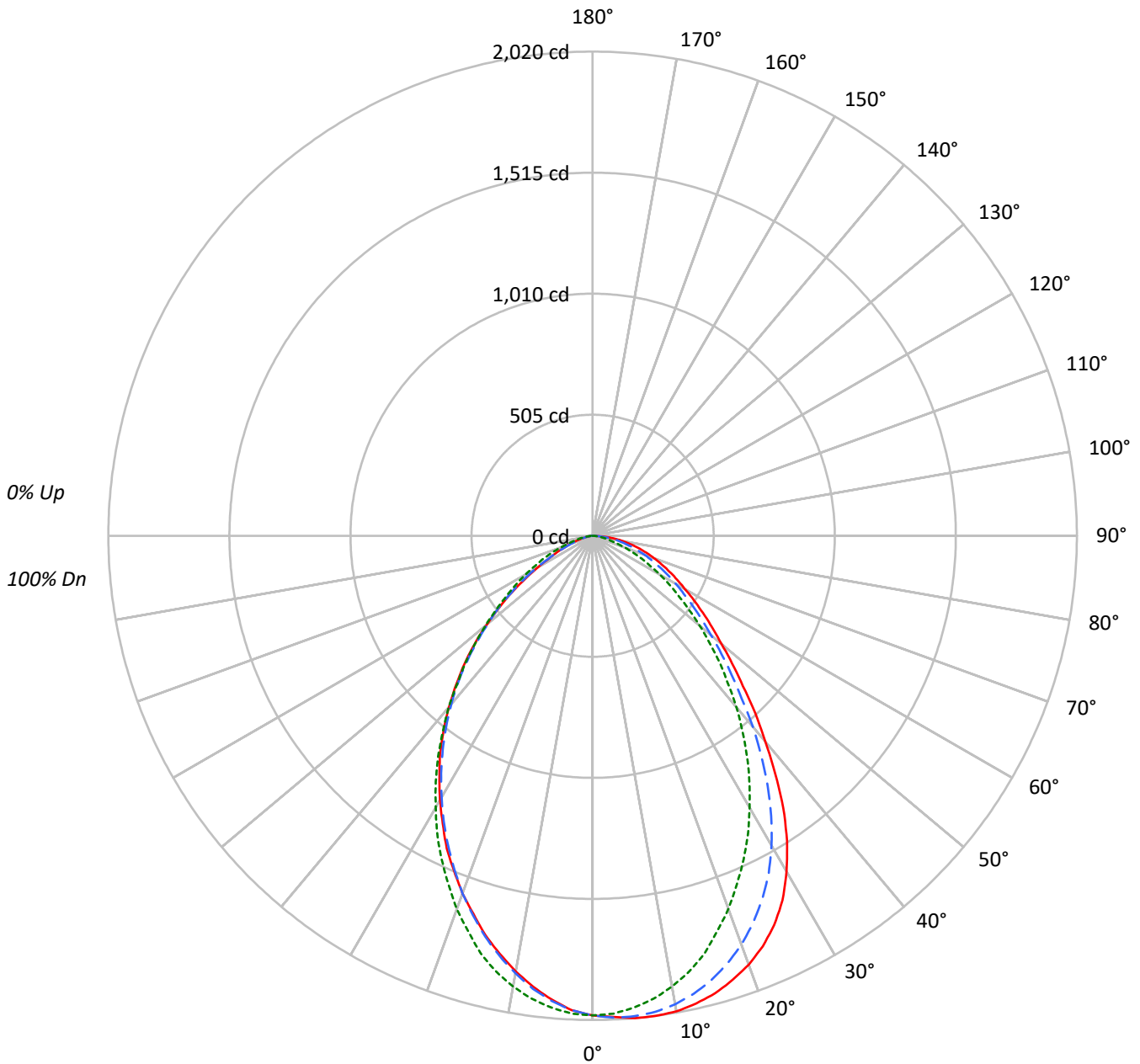
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	130546	130546	130546
5°	132322	129408	127227
10°	133481	126486	122252
15°	133463	121826	116571
20°	132176	115000	110175
25°	129040	107236	103630
30°	121852	98611	95892
35°	110450	89424	88317
40°	95385	79528	79289
45°	81801	69235	69742
50°	71088	59233	58391
55°	63856	49945	46783
60°	58025	42067	34447
65°	54493	34749	25317
70°	51961	27029	18560
75°	49733	19611	12604
80°	47001	13563	8341
85°	41620	8309	4192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	5.3
10°-20°	512.7	14.5
20°-30°	711.7	20.1
30°-40°	737.2	20.8
40°-50°	605.8	17.1
50°-60°	416.3	11.7
60°-70°	239.3	6.7
70°-80°	110.0	3.1
80°-90°	26.8	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°	1411.5	39.8
0°-40°	2148.7	60.6
0°-60°	3170.8	89.4
0°-90°	3547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3547.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2001	2001	2001	2001	2001	
5°	2020	2012	1976	1948	1943	193
15°	1976	1918	1804	1731	1726	557
25°	1793	1673	1490	1426	1440	820
35°	1387	1273	1123	1090	1109	860
45°	887	820	750	742	756	690
55°	561	509	439	414	411	505
65°	353	308	225	158	164	351
75°	197	156	78	50	50	209
85°	56	39	11	6	6	62
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°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	2009.4	2026.0	2014.9	2012.2	2017.7	2017.7	2017.7	2009.4	2014.9	2006.6	2012.2
5°	2020.5	2034.4	2023.3	2017.7	2023.3	2026.0	2017.7	2012.2	2020.5	2009.4	2012.2
7.5°	2020.5	2034.4	2023.3	2020.5	2023.3	2023.3	2020.5	2009.4	2014.9	2003.8	2003.8
10°	2014.9	2026.0	2014.9	2009.4	2012.2	2009.4	2009.4	1995.5	1998.3	1984.4	1984.4
12.5°	1998.3	2012.2	1998.3	1992.7	1992.7	1992.7	1984.4	1973.2	1976.0	1959.3	1956.6
15°	1976.0	1987.1	1973.2	1967.7	1967.7	1964.9	1959.3	1942.7	1942.7	1926.0	1917.7
17.5°	1942.7	1953.8	1942.7	1934.3	1931.6	1926.0	1920.4	1903.8	1898.2	1878.7	1870.4
20°	1903.8	1912.1	1901.0	1892.6	1887.1	1881.5	1870.4	1853.7	1848.2	1828.7	1814.8
22.5°	1853.7	1864.9	1848.2	1839.8	1834.3	1825.9	1814.8	1798.2	1789.8	1764.8	1748.1
25°	1792.6	1798.2	1784.3	1775.9	1764.8	1759.2	1750.9	1728.7	1720.3	1692.5	1673.1
27.5°	1714.8	1720.3	1703.7	1698.1	1684.2	1678.6	1667.5	1648.1	1637.0	1609.2	1589.7
30°	1617.5	1623.1	1611.9	1603.6	1592.5	1581.4	1573.0	1553.6	1536.9	1509.1	1492.4
32.5°	1509.1	1517.5	1506.3	1495.2	1475.8	1478.5	1464.6	1445.2	1431.3	1406.3	1386.8
35°	1386.8	1392.4	1378.5	1375.7	1364.6	1353.5	1339.6	1325.7	1317.3	1289.6	1272.9
37.5°	1250.6	1264.5	1250.6	1239.5	1234.0	1225.6	1217.3	1197.8	1192.3	1175.6	1153.4
40°	1120.0	1128.4	1120.0	1108.9	1100.6	1100.6	1089.5	1078.3	1064.4	1047.8	1039.4
42.5°	1003.3	997.7	995.0	989.4	978.3	975.5	972.7	958.8	950.5	933.8	919.9
45°	886.6	889.3	883.8	881.0	872.7	867.1	861.6	850.4	847.7	831.0	819.9
47.5°	789.3	786.5	781.0	781.0	775.4	769.8	764.3	755.9	753.2	739.3	728.2
50°	700.4	703.1	700.4	697.6	689.2	686.5	680.9	675.3	669.8	655.9	644.8
52.5°	628.1	625.3	622.5	622.5	614.2	611.4	605.9	600.3	594.8	580.9	572.5
55°	561.4	561.4	558.6	555.8	547.5	544.7	541.9	536.4	528.1	516.9	508.6
57.5°	500.3	500.3	497.5	494.7	489.1	489.1	483.6	478.0	472.5	461.3	450.2
60°	444.7	447.5	444.7	441.9	436.3	436.3	433.6	425.2	422.4	408.5	400.2
62.5°	397.4	397.4	397.4	394.6	391.9	386.3	386.3	378.0	372.4	364.1	353.0
65°	353.0	353.0	353.0	350.2	344.6	341.8	339.1	333.5	327.9	319.6	308.5
67.5°	311.3	311.3	311.3	308.5	302.9	300.2	297.4	294.6	286.3	277.9	266.8
70°	272.4	272.4	269.6	266.8	264.0	261.2	258.5	252.9	247.3	236.2	227.9
72.5°	233.5	233.5	233.5	227.9	225.1	225.1	219.6	216.8	211.2	200.1	191.8
75°	197.3	194.5	194.5	191.8	189.0	186.2	183.4	180.6	172.3	166.8	155.6
77.5°	161.2	161.2	158.4	155.6	155.6	152.9	150.1	144.5	141.7	133.4	125.1
80°	125.1	125.1	125.1	125.1	122.3	119.5	119.5	113.9	111.2	102.8	97.3
82.5°	94.5	91.7	91.7	91.7	88.9	86.2	86.2	83.4	80.6	75.0	69.5
85°	55.6	52.8	52.8	52.8	50.0	50.0	47.2	47.2	44.5	38.9	38.9
87.5°	16.7	16.7	19.5	19.5	16.7	16.7	16.7	16.7	16.7	13.9	13.9
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°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	2006.6	2014.9	2003.8	2001.0	2012.2	2006.6	2003.8	1998.3	2001.0	1995.5	1987.1
5°	2003.8	2014.9	2001.0	1992.7	2006.6	1998.3	1992.7	1987.1	1987.1	1976.0	1970.5
7.5°	1995.5	2001.0	1987.1	1978.8	1987.1	1978.8	1973.2	1964.9	1962.1	1948.2	1939.9
10°	1973.2	1978.8	1962.1	1951.0	1959.3	1948.2	1939.9	1931.6	1926.0	1909.3	1898.2
12.5°	1942.7	1945.4	1926.0	1912.1	1917.7	1909.3	1895.4	1884.3	1878.7	1862.1	1848.2
15°	1901.0	1903.8	1881.5	1862.1	1867.6	1856.5	1839.8	1828.7	1820.4	1803.7	1784.3
17.5°	1851.0	1848.2	1823.2	1803.7	1806.5	1792.6	1775.9	1759.2	1748.1	1728.7	1714.8
20°	1795.4	1787.0	1759.2	1737.0	1739.8	1723.1	1703.7	1687.0	1673.1	1656.4	1637.0
22.5°	1725.9	1714.8	1689.8	1662.0	1664.7	1650.9	1623.1	1609.2	1595.3	1573.0	1556.4
25°	1650.9	1634.2	1609.2	1581.4	1581.4	1564.7	1542.5	1525.8	1511.9	1489.7	1470.2
27.5°	1561.9	1553.6	1520.2	1498.0	1495.2	1478.5	1459.1	1439.6	1423.0	1403.5	1384.0
30°	1464.6	1450.7	1425.7	1400.7	1395.2	1381.3	1361.8	1339.6	1328.5	1309.0	1292.3
32.5°	1361.8	1347.9	1320.1	1295.1	1292.3	1281.2	1264.5	1242.3	1231.2	1217.3	1206.2
35°	1245.1	1239.5	1211.7	1192.3	1192.3	1181.2	1164.5	1145.0	1136.7	1122.8	1108.9
37.5°	1133.9	1125.6	1100.6	1083.9	1083.9	1070.0	1053.3	1045.0	1036.6	1025.5	1017.2
40°	1017.2	1011.6	992.2	975.5	978.3	967.2	956.0	944.9	939.4	933.8	925.5
42.5°	908.8	903.2	889.3	875.5	875.5	867.1	856.0	847.7	842.1	833.8	831.0
45°	811.5	803.2	792.1	778.2	778.2	769.8	764.3	758.7	755.9	750.4	742.0
47.5°	717.0	711.5	700.4	686.5	686.5	686.5	675.3	667.0	667.0	661.5	658.7
50°	636.4	628.1	619.8	608.6	608.6	603.1	594.8	586.4	586.4	583.6	578.1
52.5°	561.4	555.8	544.7	533.6	533.6	528.1	519.7	516.9	514.2	505.8	503.0
55°	497.5	491.9	483.6	469.7	466.9	464.1	455.8	450.2	447.5	439.1	439.1
57.5°	439.1	433.6	419.7	411.3	408.5	403.0	394.6	389.1	386.3	380.8	375.2
60°	389.1	380.8	369.6	358.5	355.7	350.2	341.8	336.3	333.5	322.4	316.8
62.5°	341.8	333.5	322.4	311.3	308.5	302.9	291.8	286.3	280.7	269.6	264.0
65°	297.4	289.0	277.9	266.8	261.2	258.5	247.3	239.0	233.5	225.1	214.0
67.5°	255.7	247.3	236.2	222.3	222.3	214.0	205.7	197.3	189.0	180.6	172.3
70°	216.8	208.4	197.3	186.2	183.4	177.9	169.5	158.4	152.9	141.7	133.4
72.5°	180.6	172.3	161.2	150.1	147.3	141.7	133.4	122.3	113.9	105.6	97.3
75°	147.3	139.0	127.8	119.5	116.7	111.2	102.8	91.7	83.4	77.8	69.5
77.5°	116.7	108.4	100.1	91.7	88.9	83.4	75.0	69.5	61.1	55.6	47.2
80°	88.9	83.4	75.0	69.5	66.7	61.1	55.6	47.2	41.7	36.1	33.4
82.5°	63.9	58.4	52.8	44.5	44.5	38.9	36.1	30.6	25.0	22.2	19.5
85°	36.1	30.6	27.8	25.0	22.2	22.2	19.5	16.7	13.9	11.1	11.1
87.5°	11.1	11.1	8.3	8.3	8.3	8.3	5.6	5.6	5.6	5.6	5.6
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°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	1987.1	1989.9	1984.4	1989.9	1984.4	1987.1	1981.6	1987.1	1981.6	1987.1	1976.0
5°	1967.7	1967.7	1959.3	1964.9	1959.3	1962.1	1951.0	1953.8	1948.2	1953.8	1942.7
7.5°	1934.3	1937.1	1923.2	1928.8	1920.4	1920.4	1912.1	1914.9	1906.5	1909.3	1901.0
10°	1895.4	1892.6	1878.7	1884.3	1873.2	1873.2	1864.9	1864.9	1853.7	1856.5	1845.4
12.5°	1839.8	1837.1	1820.4	1825.9	1814.8	1814.8	1806.5	1806.5	1795.4	1800.9	1789.8
15°	1775.9	1773.1	1756.5	1759.2	1748.1	1748.1	1737.0	1739.8	1731.4	1737.0	1725.9
17.5°	1703.7	1700.9	1684.2	1687.0	1673.1	1675.9	1667.5	1664.7	1659.2	1662.0	1653.6
20°	1628.6	1623.1	1606.4	1609.2	1603.6	1595.3	1589.7	1592.5	1586.9	1592.5	1584.2
22.5°	1550.8	1539.7	1525.8	1525.8	1520.2	1520.2	1511.9	1517.5	1506.3	1514.7	1509.1
25°	1461.9	1453.5	1442.4	1448.0	1436.9	1436.9	1428.5	1431.3	1425.7	1431.3	1425.7
27.5°	1375.7	1370.2	1353.5	1359.0	1350.7	1353.5	1345.1	1347.9	1345.1	1350.7	1345.1
30°	1284.0	1281.2	1270.1	1270.1	1267.3	1264.5	1261.8	1261.8	1259.0	1267.3	1261.8
32.5°	1197.8	1189.5	1178.4	1186.7	1172.8	1181.2	1175.6	1181.2	1175.6	1181.2	1178.4
35°	1108.9	1106.1	1092.2	1095.0	1092.2	1092.2	1089.5	1089.5	1089.5	1097.8	1097.8
37.5°	1014.4	1011.6	1003.3	1006.1	1000.5	997.7	997.7	1003.3	1003.3	1008.9	1008.9
40°	922.7	925.5	917.1	917.1	914.4	914.4	914.4	919.9	917.1	922.7	919.9
42.5°	831.0	831.0	822.6	825.4	822.6	825.4	825.4	831.0	831.0	833.8	831.0
45°	744.8	744.8	742.0	744.8	739.3	742.0	739.3	744.8	742.0	744.8	744.8
47.5°	658.7	658.7	658.7	655.9	655.9	655.9	655.9	655.9	653.1	658.7	655.9
50°	578.1	580.9	578.1	578.1	575.3	578.1	575.3	575.3	569.7	572.5	572.5
52.5°	505.8	505.8	500.3	500.3	500.3	497.5	497.5	497.5	494.7	494.7	489.1
55°	436.3	436.3	430.8	430.8	428.0	425.2	422.4	422.4	414.1	414.1	405.8
57.5°	372.4	369.6	361.3	361.3	355.7	353.0	350.2	347.4	341.8	336.3	333.5
60°	314.1	308.5	302.9	300.2	294.6	289.0	283.5	277.9	272.4	269.6	266.8
62.5°	258.5	250.1	244.6	241.8	236.2	227.9	222.3	216.8	211.2	208.4	202.9
65°	208.4	200.1	191.8	189.0	183.4	177.9	169.5	164.0	158.4	155.6	155.6
67.5°	164.0	155.6	144.5	144.5	139.0	133.4	127.8	122.3	119.5	122.3	122.3
70°	122.3	116.7	108.4	105.6	100.1	94.5	91.7	91.7	91.7	94.5	91.7
72.5°	91.7	83.4	77.8	75.0	72.3	69.5	69.5	69.5	66.7	69.5	69.5
75°	63.9	58.4	52.8	52.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0
77.5°	44.5	38.9	36.1	36.1	36.1	33.4	33.4	33.4	33.4	33.4	33.4
80°	27.8	27.8	25.0	25.0	22.2	22.2	22.2	22.2	22.2	22.2	22.2
82.5°	16.7	16.7	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
85°	8.3	8.3	8.3	8.3	8.3	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6
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: P252493

CATALOG NUMBER: LD6B40D010 EU6B30508030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	1976.0	1984.4	1973.2	1981.6	1978.8	1976.0	1970.5	1981.6
5°	1942.7	1945.4	1934.3	1945.4	1942.7	1937.1	1931.6	1942.7
7.5°	1895.4	1903.8	1889.9	1901.0	1898.2	1892.6	1887.1	1898.2
10°	1842.6	1851.0	1839.8	1848.2	1848.2	1842.6	1834.3	1845.4
12.5°	1784.3	1789.8	1778.7	1789.8	1787.0	1781.5	1778.7	1787.0
15°	1720.3	1728.7	1717.6	1725.9	1723.1	1720.3	1717.6	1725.9
17.5°	1650.9	1659.2	1650.9	1659.2	1659.2	1650.9	1648.1	1653.6
20°	1581.4	1586.9	1578.6	1586.9	1584.2	1584.2	1578.6	1586.9
22.5°	1503.6	1511.9	1506.3	1511.9	1509.1	1509.1	1506.3	1511.9
25°	1425.7	1434.1	1425.7	1434.1	1431.3	1431.3	1425.7	1439.6
27.5°	1347.9	1353.5	1345.1	1356.3	1353.5	1347.9	1350.7	1353.5
30°	1264.5	1270.1	1264.5	1272.9	1272.9	1272.9	1267.3	1272.9
32.5°	1181.2	1189.5	1181.2	1189.5	1186.7	1186.7	1183.9	1189.5
35°	1097.8	1100.6	1095.0	1103.3	1103.3	1106.1	1100.6	1108.9
37.5°	1011.6	1014.4	1011.6	1014.4	1020.0	1011.6	1017.2	1020.0
40°	922.7	928.3	925.5	928.3	928.3	931.0	928.3	931.0
42.5°	833.8	839.3	833.8	842.1	839.3	839.3	842.1	842.1
45°	742.0	750.4	744.8	750.4	753.2	750.4	750.4	755.9
47.5°	655.9	661.5	658.7	661.5	661.5	661.5	661.5	667.0
50°	569.7	572.5	572.5	575.3	575.3	578.1	572.5	575.3
52.5°	483.6	489.1	489.1	489.1	486.4	489.1	489.1	489.1
55°	405.8	408.5	403.0	408.5	408.5	405.8	405.8	411.3
57.5°	330.7	330.7	330.7	330.7	330.7	327.9	330.7	330.7
60°	261.2	264.0	261.2	261.2	261.2	261.2	258.5	264.0
62.5°	202.9	202.9	200.1	202.9	202.9	202.9	205.7	205.7
65°	158.4	161.2	158.4	161.2	161.2	161.2	161.2	164.0
67.5°	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1
70°	94.5	94.5	94.5	97.3	94.5	94.5	94.5	97.3
72.5°	69.5	69.5	69.5	69.5	69.5	69.5	72.3	72.3
75°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
77.5°	33.4	33.4	33.4	36.1	33.4	36.1	33.4	33.4
80°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
82.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8
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)