

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: P252703

Luminaire Tested: **LD6B40D010 EU6B30508040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252703
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 EU6B30508040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 4040.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

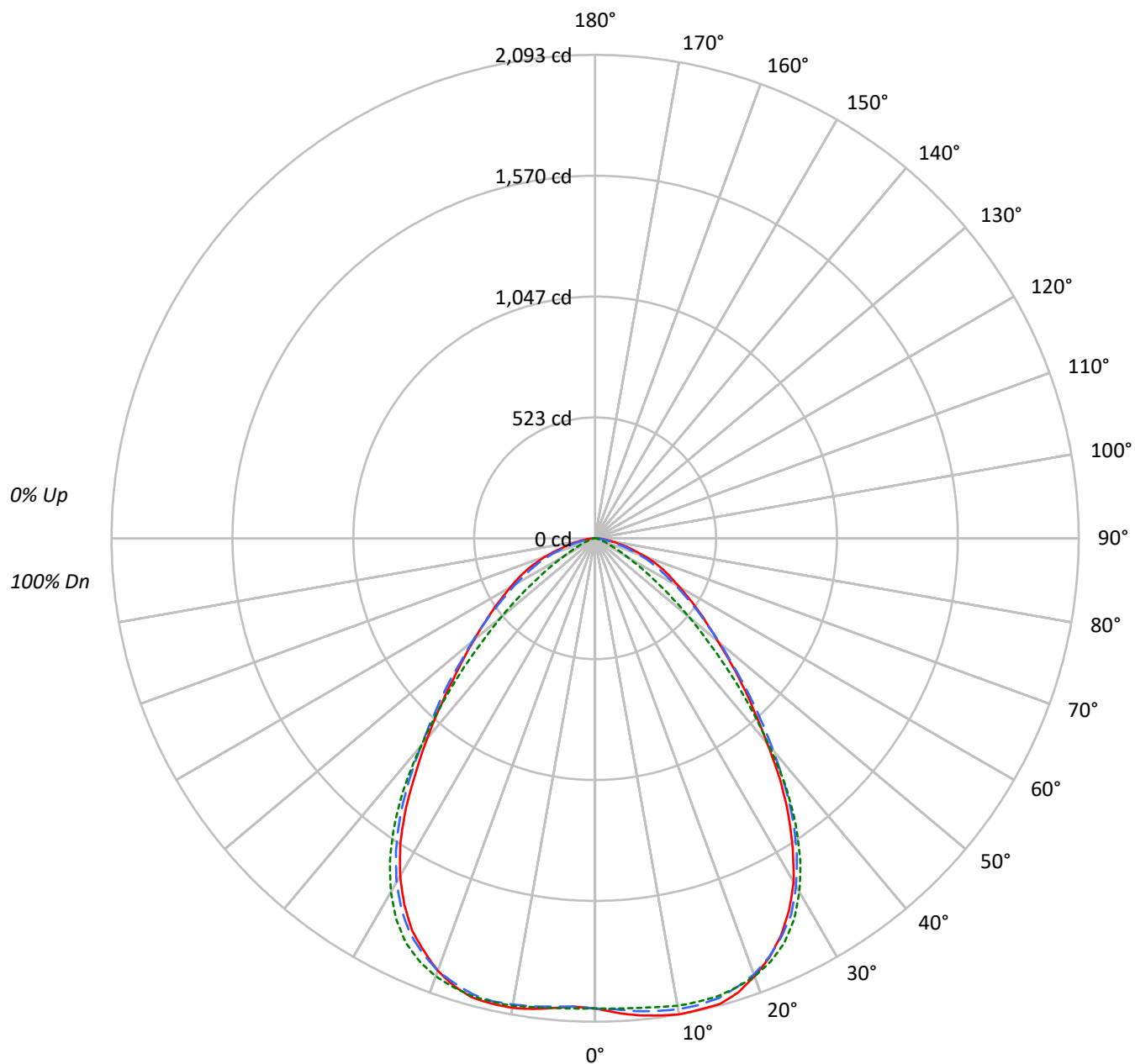
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68		
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61		
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54		
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48		
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44		
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	132791	132791	132791
5°	135754	133678	133678
10°	138655	136177	136747
15°	140981	138644	139035
20°	140119	140119	138321
25°	136779	139270	134914
30°	129483	133167	127095
35°	116026	120605	113732
40°	98562	99789	96118
45°	83407	76238	80482
50°	70418	53763	69545
55°	61888	34715	61240
60°	54841	20655	55220
65°	50665	12442	50665
70°	43930	7134	42843
75°	34836	4361	32668
80°	25961	3231	24872
85°	23729	2171	21558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	4.9
10°-20°	580.0	14.4
20°-30°	872.3	21.6
30°-40°	917.1	22.7
40°-50°	685.1	17.0
50°-60°	426.5	10.6
60°-70°	242.6	6.0
70°-80°	99.9	2.5
80°-90°	20.7	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°	1648.2	40.8
0°-40°	2565.3	63.5
0°-60°	3676.9	91.0
0°-90°	4040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2035	2035	2035	2035	2035	
5°	2073	2056	2041	2035	2041	198
15°	2087	2061	2053	2044	2058	587
25°	1900	1906	1935	1892	1874	870
35°	1457	1494	1514	1471	1428	904
45°	904	924	826	907	872	700
55°	544	533	305	524	538	489
65°	328	294	81	294	328	323
75°	138	109	17	106	130	150
85°	32	20	3	17	29	35
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°	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	2055.6	2052.7	2055.6	2049.8	2047.0	2047.0	2049.8	2044.1	2041.2	2044.1	2041.2
5°	2072.9	2067.1	2070.0	2067.1	2061.3	2061.3	2064.2	2055.6	2055.6	2058.5	2055.6
7.5°	2084.4	2084.4	2084.4	2078.6	2075.7	2072.9	2078.6	2070.0	2067.1	2067.1	2064.2
10°	2093.0	2090.1	2093.0	2087.3	2081.5	2078.6	2084.4	2078.6	2072.9	2078.6	2070.0
12.5°	2090.1	2090.1	2090.1	2087.3	2081.5	2078.6	2084.4	2075.7	2072.9	2075.7	2070.0
15°	2087.3	2078.6	2081.5	2078.6	2070.0	2070.0	2072.9	2064.2	2058.5	2067.1	2061.3
17.5°	2061.3	2055.6	2058.5	2052.7	2047.0	2044.1	2047.0	2044.1	2038.3	2044.1	2038.3
20°	2018.2	2018.2	2021.0	2015.3	2009.5	2006.6	2012.4	2006.6	2000.9	2009.5	2009.5
22.5°	1966.3	1966.3	1966.3	1963.5	1960.6	1960.6	1960.6	1957.7	1954.8	1960.6	1963.5
25°	1900.1	1897.2	1900.1	1903.0	1900.1	1897.2	1900.1	1900.1	1894.4	1905.9	1905.9
27.5°	1816.6	1816.6	1822.4	1819.5	1819.5	1816.6	1822.4	1822.4	1819.5	1828.2	1836.8
30°	1718.8	1713.0	1718.8	1718.8	1721.6	1721.6	1724.5	1724.5	1724.5	1733.1	1738.9
32.5°	1592.1	1595.0	1603.6	1600.7	1597.8	1606.5	1606.5	1612.2	1615.1	1620.9	1623.7
35°	1456.8	1459.6	1459.6	1462.5	1468.3	1462.5	1476.9	1474.0	1476.9	1488.4	1494.2
37.5°	1312.8	1304.2	1318.6	1312.8	1315.7	1315.7	1321.5	1324.3	1333.0	1347.4	1347.4
40°	1157.3	1160.2	1166.0	1168.9	1171.7	1171.7	1171.7	1180.4	1183.3	1200.5	1197.7
42.5°	1022.0	1022.0	1027.8	1030.7	1030.7	1030.7	1030.7	1039.3	1045.1	1050.8	1056.6
45°	904.0	895.4	901.1	901.1	906.9	904.0	909.8	915.5	918.4	927.0	924.2
47.5°	791.7	788.8	791.7	794.6	791.7	794.6	797.5	800.4	803.2	803.2	803.2
50°	693.8	693.8	696.7	699.6	699.6	699.6	699.6	702.5	702.5	708.2	702.5
52.5°	613.2	616.1	616.1	613.2	616.1	616.1	619.0	619.0	616.1	616.1	607.5
55°	544.1	541.2	544.1	541.2	544.1	544.1	541.2	541.2	538.4	535.5	532.6
57.5°	477.9	477.9	477.9	477.9	475.0	477.9	475.0	472.2	472.2	466.4	457.8
60°	420.3	420.3	420.3	420.3	420.3	417.5	420.3	417.5	411.7	405.9	394.4
62.5°	371.4	368.5	371.4	368.5	368.5	365.6	365.6	362.8	357.0	351.2	339.7
65°	328.2	331.1	328.2	328.2	325.3	322.4	322.4	319.6	310.9	305.2	293.7
67.5°	282.1	279.3	279.3	279.3	276.4	276.4	276.4	270.6	264.9	256.2	244.7
70°	230.3	230.3	230.3	227.4	227.4	224.6	224.6	221.7	215.9	210.2	195.8
72.5°	181.4	181.4	181.4	175.6	178.5	175.6	175.6	169.9	167.0	158.3	149.7
75°	138.2	138.2	135.3	135.3	132.4	129.6	129.6	126.7	123.8	118.0	109.4
77.5°	100.8	100.8	100.8	97.9	95.0	92.1	92.1	89.2	86.4	83.5	77.7
80°	69.1	69.1	69.1	69.1	66.2	63.3	63.3	60.5	60.5	57.6	51.8
82.5°	46.1	46.1	46.1	46.1	43.2	43.2	43.2	40.3	37.4	37.4	31.7
85°	31.7	31.7	28.8	28.8	28.8	28.8	25.9	25.9	23.0	20.2	20.2
87.5°	17.3	17.3	17.3	17.3	14.4	14.4	14.4	14.4	11.5	11.5	8.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	2049.8	2049.8	2047.0	2038.3	2041.2	2038.3	2041.2	2038.3	2029.7	2038.3	2029.7
5°	2061.3	2064.2	2058.5	2047.0	2049.8	2047.0	2047.0	2044.1	2035.4	2041.2	2035.4
7.5°	2072.9	2070.0	2067.1	2055.6	2058.5	2055.6	2055.6	2049.8	2041.2	2047.0	2038.3
10°	2078.6	2078.6	2072.9	2061.3	2061.3	2058.5	2061.3	2058.5	2047.0	2055.6	2049.8
12.5°	2078.6	2075.7	2075.7	2061.3	2064.2	2061.3	2064.2	2058.5	2049.8	2055.6	2052.7
15°	2070.0	2070.0	2067.1	2052.7	2055.6	2055.6	2058.5	2052.7	2044.1	2052.7	2047.0
17.5°	2052.7	2052.7	2049.8	2038.3	2044.1	2044.1	2047.0	2041.2	2032.6	2038.3	2038.3
20°	2018.2	2021.0	2021.0	2012.4	2018.2	2018.2	2021.0	2018.2	2015.3	2018.2	2012.4
22.5°	1977.9	1983.6	1983.6	1975.0	1980.7	1980.7	1989.4	1986.5	1980.7	1983.6	1980.7
25°	1917.4	1923.2	1928.9	1923.2	1928.9	1928.9	1937.6	1934.7	1928.9	1934.7	1926.0
27.5°	1848.3	1851.2	1856.9	1851.2	1859.8	1856.9	1865.6	1862.7	1854.1	1862.7	1859.8
30°	1750.4	1761.9	1770.6	1761.9	1770.6	1770.6	1776.3	1773.5	1770.6	1767.7	1767.7
32.5°	1641.0	1652.5	1652.5	1649.7	1655.4	1655.4	1658.3	1652.5	1649.7	1652.5	1655.4
35°	1505.7	1511.5	1517.2	1514.3	1517.2	1520.1	1517.2	1520.1	1511.5	1514.3	1514.3
37.5°	1358.9	1364.6	1364.6	1356.0	1361.8	1361.8	1356.0	1356.0	1350.2	1356.0	1344.5
40°	1203.4	1197.7	1200.5	1194.8	1189.0	1189.0	1186.1	1174.6	1168.9	1171.7	1174.6
42.5°	1050.8	1050.8	1042.2	1027.8	1013.4	1013.4	1004.8	999.0	987.5	993.2	990.4
45°	921.3	906.9	895.4	872.3	863.7	857.9	843.5	829.1	823.4	826.3	823.4
47.5°	797.5	786.0	757.2	725.5	716.9	708.2	691.0	673.7	667.9	662.2	662.2
50°	693.8	673.7	642.0	607.5	593.1	578.7	555.6	538.4	526.9	529.7	529.7
52.5°	598.8	575.8	538.4	495.2	477.9	460.6	440.5	420.3	411.7	408.8	408.8
55°	515.3	489.4	452.0	403.1	388.7	368.5	342.6	319.6	308.1	305.2	310.9
57.5°	440.5	417.5	374.3	325.3	308.1	287.9	262.0	241.8	227.4	224.6	227.4
60°	380.0	348.4	310.9	264.9	241.8	224.6	195.8	178.5	164.1	158.3	161.2
62.5°	319.6	290.8	253.4	207.3	190.0	172.7	146.8	126.7	115.2	112.3	115.2
65°	273.5	244.7	210.2	169.9	152.6	135.3	112.3	92.1	83.5	80.6	83.5
67.5°	227.4	201.5	172.7	135.3	120.9	106.5	83.5	69.1	57.6	54.7	57.6
70°	184.3	161.2	132.4	106.5	92.1	80.6	63.3	48.9	40.3	37.4	40.3
72.5°	138.2	120.9	100.8	77.7	69.1	60.5	46.1	34.5	28.8	25.9	28.8
75°	100.8	86.4	72.0	54.7	48.9	43.2	31.7	23.0	20.2	17.3	20.2
77.5°	69.1	60.5	48.9	37.4	31.7	28.8	20.2	17.3	14.4	11.5	11.5
80°	46.1	40.3	31.7	25.9	23.0	20.2	14.4	11.5	8.6	8.6	8.6
82.5°	28.8	23.0	20.2	14.4	11.5	11.5	8.6	5.8	5.8	5.8	5.8
85°	17.3	14.4	11.5	8.6	5.8	5.8	2.9	2.9	2.9	2.9	2.9
87.5°	8.6	5.8	5.8	2.9	2.9	2.9	2.9	2.9	0.0	0.0	2.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	2035.4	2029.7	2029.7	2032.6	2035.4	2038.3	2032.6	2029.7	2029.7	2038.3	2032.6
5°	2035.4	2032.6	2032.6	2032.6	2038.3	2041.2	2035.4	2032.6	2035.4	2044.1	2041.2
7.5°	2044.1	2038.3	2041.2	2041.2	2044.1	2049.8	2044.1	2041.2	2044.1	2052.7	2047.0
10°	2049.8	2044.1	2047.0	2044.1	2052.7	2055.6	2049.8	2047.0	2049.8	2061.3	2058.5
12.5°	2052.7	2049.8	2049.8	2047.0	2055.6	2058.5	2052.7	2049.8	2052.7	2061.3	2058.5
15°	2047.0	2044.1	2044.1	2044.1	2049.8	2055.6	2047.0	2044.1	2044.1	2052.7	2049.8
17.5°	2035.4	2029.7	2029.7	2029.7	2032.6	2035.4	2026.8	2023.9	2021.0	2029.7	2026.8
20°	2015.3	2009.5	2003.8	2003.8	2006.6	2006.6	2000.9	1992.3	1992.3	1995.1	1989.4
22.5°	1977.9	1975.0	1969.2	1966.3	1972.1	1969.2	1957.7	1949.1	1946.2	1949.1	1943.3
25°	1926.0	1920.3	1917.4	1914.5	1917.4	1914.5	1903.0	1891.5	1891.5	1891.5	1882.9
27.5°	1854.1	1848.3	1845.4	1845.4	1848.3	1842.5	1831.0	1819.5	1813.8	1813.8	1805.1
30°	1761.9	1761.9	1759.1	1756.2	1753.3	1753.3	1736.0	1724.5	1718.8	1721.6	1715.9
32.5°	1649.7	1646.8	1643.9	1635.3	1638.1	1635.3	1620.9	1612.2	1603.6	1597.8	1595.0
35°	1505.7	1505.7	1502.8	1502.8	1502.8	1499.9	1485.6	1476.9	1471.2	1468.3	1459.6
37.5°	1347.4	1344.5	1341.6	1341.6	1341.6	1341.6	1333.0	1324.3	1324.3	1321.5	1315.7
40°	1168.9	1171.7	1174.6	1171.7	1180.4	1189.0	1177.5	1171.7	1168.9	1177.5	1166.0
42.5°	996.1	993.2	1007.6	1010.5	1010.5	1024.9	1027.8	1030.7	1027.8	1033.6	1033.6
45°	829.1	826.3	840.7	846.4	860.8	878.1	886.7	901.1	906.9	912.6	906.9
47.5°	670.8	682.3	693.8	708.2	719.7	748.5	765.8	780.2	786.0	794.6	794.6
50°	538.4	549.9	570.0	581.6	595.9	630.5	659.3	679.4	691.0	699.6	696.7
52.5°	414.6	434.7	460.6	472.2	492.3	532.6	564.3	587.3	601.7	610.3	613.2
55°	319.6	336.8	362.8	380.0	400.2	443.4	483.7	509.6	524.0	535.5	541.2
57.5°	236.1	256.2	285.0	299.4	322.4	371.4	405.9	437.6	454.9	469.3	472.2
60°	172.7	192.9	218.8	236.1	259.1	308.1	348.4	377.1	397.3	408.8	414.6
62.5°	123.8	143.9	169.9	187.1	207.3	250.5	290.8	319.6	339.7	354.1	362.8
65°	89.2	109.4	135.3	149.7	167.0	207.3	244.7	273.5	293.7	310.9	316.7
67.5°	66.2	80.6	103.6	118.0	135.3	167.0	198.6	224.6	244.7	259.1	264.9
70°	48.9	60.5	80.6	89.2	100.8	129.6	155.5	178.5	195.8	207.3	213.0
72.5°	34.5	43.2	57.6	66.2	74.9	97.9	118.0	135.3	146.8	158.3	164.1
75°	23.0	28.8	40.3	46.1	51.8	69.1	83.5	97.9	106.5	115.2	118.0
77.5°	14.4	20.2	28.8	31.7	37.4	46.1	57.6	66.2	72.0	77.7	83.5
80°	8.6	11.5	17.3	20.2	23.0	31.7	37.4	43.2	48.9	54.7	57.6
82.5°	5.8	8.6	11.5	11.5	14.4	17.3	23.0	28.8	31.7	34.5	37.4
85°	2.9	2.9	5.8	5.8	8.6	8.6	11.5	14.4	17.3	20.2	23.0
87.5°	2.9	2.9	2.9	2.9	5.8	5.8	8.6	8.6	8.6	11.5	11.5
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: P252703

CATALOG NUMBER: LD6B40D010 EU6B30508040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	2026.8	2035.4	2026.8	2032.6	2029.7	2029.7	2026.8	2029.7
5°	2035.4	2047.0	2035.4	2044.1	2038.3	2038.3	2038.3	2041.2
7.5°	2044.1	2055.6	2047.0	2055.6	2052.7	2049.8	2049.8	2055.6
10°	2052.7	2061.3	2055.6	2064.2	2061.3	2058.5	2058.5	2064.2
12.5°	2052.7	2064.2	2058.5	2067.1	2064.2	2061.3	2061.3	2064.2
15°	2044.1	2058.5	2049.8	2058.5	2055.6	2052.7	2052.7	2058.5
17.5°	2018.2	2029.7	2023.9	2029.7	2029.7	2026.8	2029.7	2032.6
20°	1983.6	1992.3	1986.5	1992.3	1992.3	1986.5	1989.4	1992.3
22.5°	1934.7	1943.3	1937.6	1943.3	1940.4	1937.6	1937.6	1934.7
25°	1874.2	1885.7	1877.1	1882.9	1877.1	1871.3	1871.3	1874.2
27.5°	1799.4	1808.0	1796.5	1802.2	1796.5	1790.7	1790.7	1787.8
30°	1701.5	1704.4	1695.7	1701.5	1695.7	1692.8	1687.1	1687.1
32.5°	1583.4	1586.3	1577.7	1577.7	1571.9	1571.9	1560.4	1569.0
35°	1445.2	1448.1	1445.2	1442.4	1433.7	1430.9	1428.0	1428.0
37.5°	1301.3	1301.3	1292.7	1289.8	1284.0	1278.3	1281.1	1272.5
40°	1154.5	1151.6	1143.0	1145.8	1143.0	1134.3	1131.4	1128.6
42.5°	1016.3	1016.3	1007.6	1010.5	1004.8	1001.9	993.2	996.1
45°	895.4	895.4	886.7	886.7	883.8	875.2	878.1	872.3
47.5°	786.0	786.0	783.1	783.1	774.4	771.6	771.6	771.6
50°	691.0	691.0	691.0	691.0	688.1	685.2	682.3	685.2
52.5°	610.3	616.1	613.2	613.2	610.3	607.5	604.6	604.6
55°	538.4	541.2	541.2	544.1	541.2	538.4	541.2	538.4
57.5°	475.0	480.8	480.8	480.8	480.8	480.8	477.9	475.0
60°	420.3	423.2	423.2	426.1	426.1	426.1	423.2	423.2
62.5°	365.6	371.4	374.3	374.3	377.1	374.3	374.3	374.3
65°	322.4	328.2	331.1	328.2	331.1	331.1	328.2	328.2
67.5°	270.6	276.4	276.4	276.4	276.4	279.3	276.4	276.4
70°	218.8	224.6	221.7	224.6	224.6	224.6	224.6	224.6
72.5°	167.0	169.9	172.7	172.7	175.6	172.7	172.7	172.7
75°	120.9	126.7	126.7	126.7	126.7	129.6	129.6	129.6
77.5°	86.4	89.2	89.2	92.1	92.1	92.1	92.1	95.0
80°	60.5	60.5	63.3	63.3	66.2	66.2	66.2	66.2
82.5°	40.3	43.2	43.2	43.2	43.2	43.2	43.2	43.2
85°	23.0	25.9	25.9	25.9	25.9	28.8	28.8	28.8
87.5°	14.4	14.4	14.4	14.4	14.4	14.4	11.5	11.5
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)