

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: P212831

Luminaire Tested: **LD6B40D010 EU6B30509040 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30509040 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3463.8 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

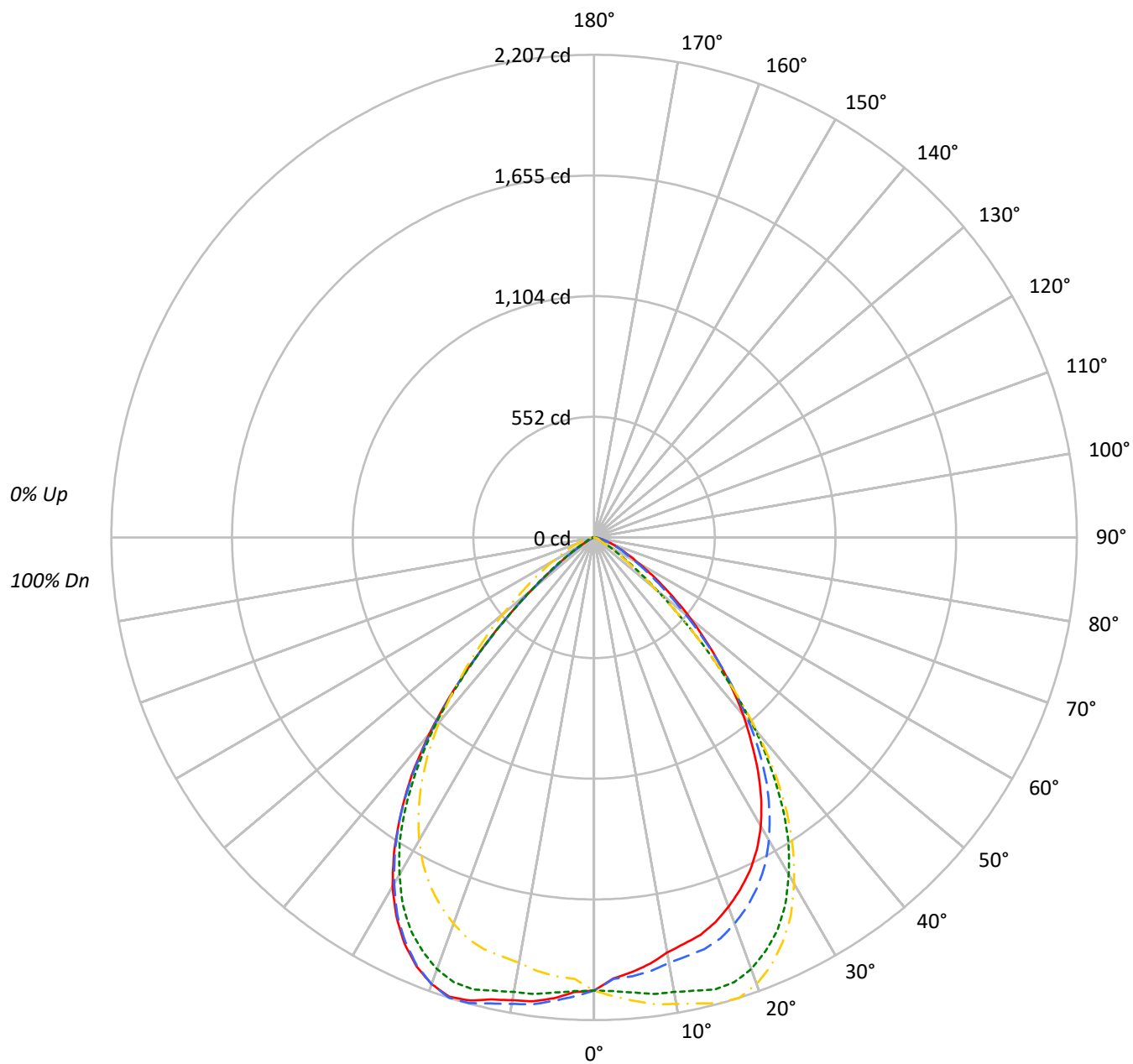
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	98		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	91	84	80	96	89	84	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	44	66	55	48	44	54	48	43		53	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	113571	113571	113571	113571
5°	109762	114935	116399	114935
10°	107268	117472	119620	117472
15°	106766	121414	124422	121414
20°	104822	122551	126769	122551
25°	101824	119916	123999	119916
30°	96490	112669	116638	112669
35°	87482	100391	103135	100391
40°	75942	81810	83879	81810
45°	62262	56471	56843	56471
50°	48954	31675	31061	31675
55°	36195	15674	14059	15674
60°	25645	6874	5022	6874
65°	19081	4384	3126	4384
70°	13913	3478	2324	3478
75°	10209	2563	1525	2563
80°	6851	2273	758	2273
85°	4529	1510	1510	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	5.7
10°-20°	587.4	17.0
20°-30°	876.6	25.3
30°-40°	900.6	26.0
40°-50°	583.2	16.8
50°-60°	216.9	6.3
60°-70°	71.2	2.1
70°-80°	25.1	0.7
80°-90°	4.5	0.1
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°	1662.3	48.0
0°-40°	2562.9	74.0
0°-60°	3363.0	97.1
0°-90°	3463.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3463.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2072	2072	2072	2072	2072	
5°	1995	2089	2115	2089	1995	188
15°	1881	2139	2192	2139	1881	529
25°	1683	1982	2050	1982	1683	772
35°	1307	1500	1541	1500	1307	812
45°	803	728	733	728	803	621
55°	379	164	147	164	379	345
65°	147	34	24	34	147	150
75°	48	12	7	12	48	53
85°	7	2	2	2	7	10
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°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	2018.7	2047.6	2028.3	2040.4	2021.1	2021.1	2059.7	2038.0	2054.9	2038.0	2021.1
5°	1994.6	2030.7	2006.6	2018.7	2001.8	2004.2	2040.4	2023.5	2040.4	2028.3	2013.9
7.5°	1965.6	2001.8	1980.1	1992.2	1975.3	1980.1	2018.7	2001.8	2021.1	2009.0	1999.4
10°	1927.0	1965.6	1946.3	1958.4	1943.9	1946.3	1984.9	1972.9	1989.7	1982.5	1975.3
12.5°	1902.9	1939.1	1917.4	1929.4	1919.8	1924.6	1960.8	1951.2	1972.9	1965.6	1960.8
15°	1881.2	1915.0	1895.7	1907.7	1900.5	1902.9	1941.5	1931.9	1956.0	1951.2	1948.7
17.5°	1845.0	1881.2	1859.5	1874.0	1866.7	1869.2	1907.7	1900.5	1924.6	1924.6	1922.2
20°	1796.8	1833.0	1816.1	1825.7	1820.9	1825.7	1859.5	1854.7	1878.8	1878.8	1878.8
22.5°	1743.7	1779.9	1760.6	1770.3	1765.4	1772.7	1804.0	1804.0	1823.3	1825.7	1828.2
25°	1683.4	1719.6	1700.3	1712.4	1707.6	1712.4	1741.3	1743.7	1760.6	1760.6	1765.4
27.5°	1611.1	1647.3	1628.0	1637.6	1635.2	1637.6	1669.0	1673.8	1683.4	1685.9	1690.7
30°	1524.3	1558.0	1538.7	1548.4	1548.4	1548.4	1579.7	1582.1	1591.8	1594.2	1599.0
32.5°	1423.0	1451.9	1437.4	1447.1	1444.7	1449.5	1471.2	1480.9	1492.9	1490.5	1492.9
35°	1307.2	1338.6	1324.1	1331.3	1333.7	1341.0	1355.4	1367.5	1369.9	1372.3	1377.1
37.5°	1181.8	1213.1	1198.7	1205.9	1208.3	1222.8	1227.6	1239.7	1244.5	1244.5	1244.5
40°	1061.2	1075.7	1063.6	1070.8	1073.3	1085.3	1090.1	1099.8	1104.6	1102.2	1099.8
42.5°	931.0	943.0	931.0	938.2	938.2	947.8	950.3	962.3	962.3	957.5	950.3
45°	803.1	815.2	803.1	808.0	808.0	817.6	817.6	817.6	822.4	815.2	803.1
47.5°	682.5	694.6	682.5	687.4	685.0	692.2	689.8	692.2	685.0	680.1	665.7
50°	574.0	578.8	574.0	571.6	574.0	578.8	576.4	576.4	566.8	559.5	542.7
52.5°	467.9	475.1	467.9	467.9	467.9	472.7	472.7	470.3	460.7	451.0	434.1
55°	378.7	383.5	381.1	378.7	378.7	383.5	378.7	378.7	369.0	361.8	344.9
57.5°	301.5	303.9	301.5	301.5	301.5	303.9	303.9	299.1	291.8	284.6	272.5
60°	233.9	236.4	236.4	233.9	233.9	238.8	238.8	236.4	229.1	224.3	212.2
62.5°	185.7	185.7	185.7	185.7	185.7	188.1	188.1	188.1	183.3	178.5	168.8
65°	147.1	149.5	147.1	147.1	149.5	151.9	149.5	151.9	147.1	144.7	137.5
67.5°	113.4	115.8	113.4	115.8	115.8	118.2	115.8	118.2	113.4	110.9	106.1
70°	86.8	86.8	86.8	86.8	86.8	89.2	86.8	89.2	86.8	84.4	79.6
72.5°	65.1	65.1	67.5	67.5	65.1	67.5	65.1	65.1	65.1	62.7	60.3
75°	48.2	48.2	50.6	48.2	48.2	48.2	48.2	48.2	45.8	45.8	43.4
77.5°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	31.4	31.4	28.9
80°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	19.3	19.3
82.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.1	12.1
85°	7.2	7.2	7.2	9.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2
87.5°	2.4	2.4	2.4	4.8	2.4	2.4	4.8	4.8	2.4	2.4	2.4
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°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	2040.4	2047.6	2047.6	2040.4	2057.3	2042.8	2071.7	2045.2	2052.5	2076.6	2074.2
5°	2033.2	2042.8	2045.2	2040.4	2062.1	2050.0	2079.0	2052.5	2064.5	2088.6	2088.6
7.5°	2023.5	2035.6	2040.4	2045.2	2064.5	2052.5	2086.2	2059.7	2076.6	2105.5	2103.1
10°	2001.8	2018.7	2028.3	2035.6	2054.9	2047.6	2083.8	2062.1	2076.6	2110.3	2107.9
12.5°	1989.7	2009.0	2023.5	2035.6	2057.3	2052.5	2088.6	2069.3	2088.6	2122.4	2122.4
15°	1980.1	2001.8	2018.7	2040.4	2062.1	2057.3	2095.9	2079.0	2098.3	2139.3	2136.9
17.5°	1956.0	1982.5	1999.4	2023.5	2045.2	2042.8	2083.8	2071.7	2093.5	2132.0	2134.5
20°	1915.0	1939.1	1958.4	1987.3	2011.5	2006.6	2050.0	2038.0	2059.7	2100.7	2103.1
22.5°	1861.9	1886.0	1905.3	1936.7	1958.4	1956.0	1999.4	1987.3	2009.0	2047.6	2050.0
25°	1799.2	1820.9	1840.2	1869.2	1893.3	1893.3	1931.9	1919.8	1943.9	1982.5	1982.5
27.5°	1722.0	1741.3	1758.2	1792.0	1811.3	1811.3	1847.4	1835.4	1859.5	1893.3	1890.9
30°	1628.0	1644.9	1659.3	1688.3	1705.2	1707.6	1738.9	1726.9	1751.0	1779.9	1779.9
32.5°	1514.6	1531.5	1541.1	1577.3	1589.4	1587.0	1611.1	1599.0	1623.1	1654.5	1647.3
35°	1394.0	1401.3	1408.5	1444.7	1449.5	1439.9	1464.0	1451.9	1468.8	1500.1	1495.3
37.5°	1256.6	1259.0	1259.0	1290.3	1292.7	1285.5	1300.0	1285.5	1297.6	1326.5	1324.1
40°	1104.6	1102.2	1099.8	1123.9	1121.5	1107.0	1116.7	1104.6	1121.5	1143.2	1131.1
42.5°	950.3	943.0	933.4	945.4	935.8	923.7	928.5	909.3	921.3	938.2	923.7
45°	798.3	783.8	764.5	767.0	754.9	740.4	733.2	713.9	711.5	728.4	716.3
47.5°	656.0	627.1	610.2	600.5	581.2	569.2	554.7	533.0	523.4	533.0	521.0
50°	528.2	499.2	477.5	455.8	436.5	422.1	397.9	383.5	369.0	371.4	361.8
52.5°	417.2	397.9	361.8	344.9	325.6	308.7	287.0	270.1	253.2	253.2	243.6
55°	330.4	303.9	279.8	255.7	236.4	221.9	200.2	183.3	166.4	164.0	154.4
57.5°	255.7	236.4	209.8	185.7	173.7	159.2	137.5	118.2	108.5	101.3	94.1
60°	197.8	178.5	156.8	137.5	123.0	113.4	91.6	77.2	67.5	62.7	55.5
62.5°	159.2	142.3	123.0	103.7	94.1	84.4	67.5	55.5	45.8	41.0	36.2
65°	127.8	113.4	98.9	84.4	77.2	67.5	55.5	45.8	38.6	33.8	28.9
67.5°	98.9	89.2	77.2	67.5	60.3	53.1	43.4	36.2	31.4	26.5	24.1
70°	74.8	67.5	60.3	50.6	45.8	41.0	33.8	26.5	24.1	21.7	19.3
72.5°	57.9	50.6	43.4	38.6	33.8	31.4	26.5	21.7	19.3	16.9	14.5
75°	38.6	36.2	31.4	26.5	24.1	21.7	19.3	16.9	14.5	12.1	12.1
77.5°	26.5	24.1	21.7	19.3	16.9	16.9	14.5	12.1	9.6	9.6	7.2
80°	16.9	14.5	14.5	12.1	12.1	12.1	9.6	7.2	7.2	7.2	4.8
82.5°	12.1	9.6	9.6	7.2	7.2	7.2	7.2	4.8	4.8	4.8	2.4
85°	7.2	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0
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°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	2054.9	2076.6	2076.6	2095.9	2098.3	2093.5	2071.7	2071.7	2100.7	2117.6	2088.6
5°	2074.2	2095.9	2095.9	2115.2	2124.8	2117.6	2095.9	2098.3	2127.2	2146.5	2117.6
7.5°	2091.0	2112.7	2117.6	2139.3	2146.5	2139.3	2117.6	2122.4	2153.7	2170.6	2141.7
10°	2098.3	2120.0	2122.4	2146.5	2156.2	2146.5	2129.6	2132.0	2165.8	2177.9	2151.3
12.5°	2115.2	2136.9	2136.9	2163.4	2173.0	2165.8	2144.1	2148.9	2182.7	2194.7	2168.2
15°	2132.0	2153.7	2153.7	2182.7	2194.7	2185.1	2168.2	2170.6	2204.4	2216.5	2194.7
17.5°	2132.0	2151.3	2151.3	2182.7	2194.7	2187.5	2168.2	2170.6	2206.8	2216.5	2194.7
20°	2100.7	2122.4	2117.6	2148.9	2161.0	2153.7	2136.9	2136.9	2173.0	2182.7	2161.0
22.5°	2050.0	2069.3	2064.5	2093.5	2107.9	2098.3	2083.8	2081.4	2117.6	2127.2	2105.5
25°	1980.1	1999.4	1994.6	2023.5	2038.0	2025.9	2009.0	2011.5	2040.4	2054.9	2035.6
27.5°	1898.1	1910.2	1902.9	1931.9	1946.3	1934.3	1917.4	1919.8	1948.7	1958.4	1943.9
30°	1787.2	1796.8	1789.6	1813.7	1823.3	1816.1	1801.6	1801.6	1828.2	1840.2	1825.7
32.5°	1654.5	1661.7	1654.5	1673.8	1693.1	1678.6	1664.1	1664.1	1693.1	1702.7	1685.9
35°	1500.1	1507.4	1502.6	1521.9	1536.3	1517.0	1505.0	1500.1	1538.7	1533.9	1524.3
37.5°	1328.9	1333.7	1319.3	1353.0	1360.3	1338.6	1328.9	1324.1	1357.8	1355.4	1345.8
40°	1136.0	1140.8	1131.1	1155.3	1157.7	1140.8	1133.6	1126.3	1160.1	1157.7	1150.4
42.5°	931.0	933.4	921.3	940.6	945.4	928.5	926.1	916.5	947.8	943.0	940.6
45°	718.7	718.7	709.1	723.5	728.4	713.9	709.1	706.7	728.4	728.4	723.5
47.5°	521.0	513.7	501.7	523.4	525.8	516.1	513.7	506.5	528.2	528.2	523.4
50°	356.9	354.5	352.1	356.9	359.4	347.3	354.5	347.3	359.4	359.4	359.4
52.5°	238.8	236.4	231.5	236.4	236.4	229.1	229.1	226.7	236.4	236.4	231.5
55°	149.5	147.1	144.7	147.1	147.1	139.9	144.7	139.9	144.7	144.7	142.3
57.5°	91.6	86.8	86.8	84.4	84.4	79.6	82.0	82.0	82.0	82.0	82.0
60°	53.1	50.6	48.2	48.2	48.2	45.8	45.8	45.8	45.8	45.8	45.8
62.5°	33.8	33.8	31.4	31.4	31.4	31.4	31.4	28.9	31.4	31.4	31.4
65°	28.9	26.5	26.5	26.5	26.5	24.1	24.1	24.1	24.1	24.1	24.1
67.5°	24.1	21.7	21.7	21.7	21.7	19.3	19.3	19.3	19.3	19.3	19.3
70°	19.3	16.9	16.9	16.9	16.9	16.9	14.5	16.9	16.9	14.5	14.5
72.5°	14.5	14.5	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
75°	9.6	9.6	9.6	9.6	9.6	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	7.2	7.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	2.4	0.0	2.4	0.0	2.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P212831

CATALOG NUMBER: LD6B40D010 EU6B30509040 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	2122.4	2098.3	2086.2	2110.3	2120.0	2107.9	2098.3	2081.4	2098.3	2107.9	2120.0
5°	2151.3	2129.6	2120.0	2136.9	2151.3	2139.3	2132.0	2115.2	2132.0	2139.3	2151.3
7.5°	2177.9	2156.2	2144.1	2161.0	2177.9	2161.0	2153.7	2139.3	2153.7	2161.0	2177.9
10°	2187.5	2163.4	2153.7	2168.2	2185.1	2168.2	2158.6	2148.9	2158.6	2168.2	2185.1
12.5°	2204.4	2180.3	2168.2	2180.3	2197.2	2180.3	2170.6	2163.4	2170.6	2180.3	2197.2
15°	2228.5	2206.8	2192.3	2204.4	2226.1	2206.8	2194.7	2192.3	2194.7	2206.8	2226.1
17.5°	2228.5	2211.6	2197.2	2206.8	2228.5	2214.0	2197.2	2202.0	2197.2	2214.0	2228.5
20°	2197.2	2180.3	2168.2	2168.2	2199.6	2180.3	2165.8	2173.0	2165.8	2180.3	2199.6
22.5°	2141.7	2127.2	2115.2	2112.7	2144.1	2127.2	2107.9	2122.4	2107.9	2127.2	2144.1
25°	2069.3	2054.9	2045.2	2040.4	2071.7	2052.5	2035.6	2050.0	2035.6	2052.5	2071.7
27.5°	1975.3	1963.2	1953.6	1946.3	1975.3	1958.4	1941.5	1956.0	1941.5	1958.4	1975.3
30°	1854.7	1847.4	1837.8	1828.2	1857.1	1840.2	1823.3	1842.6	1823.3	1840.2	1857.1
32.5°	1714.8	1710.0	1697.9	1688.3	1717.2	1697.9	1685.9	1700.3	1685.9	1697.9	1717.2
35°	1553.2	1546.0	1538.7	1521.9	1553.2	1536.3	1536.3	1541.1	1536.3	1536.3	1553.2
37.5°	1372.3	1367.5	1357.8	1343.4	1369.9	1357.8	1353.0	1367.5	1353.0	1357.8	1369.9
40°	1169.7	1167.3	1160.1	1143.2	1172.1	1160.1	1152.8	1172.1	1152.8	1160.1	1172.1
42.5°	957.5	952.7	945.4	943.0	957.5	947.8	955.1	955.1	955.1	947.8	957.5
45°	738.0	733.2	728.4	718.7	735.6	730.8	728.4	733.2	728.4	730.8	735.6
47.5°	535.4	530.6	525.8	518.5	535.4	528.2	528.2	533.0	528.2	528.2	535.4
50°	359.4	361.8	359.4	354.5	359.4	356.9	359.4	364.2	359.4	356.9	359.4
52.5°	238.8	238.8	233.9	231.5	236.4	233.9	241.2	236.4	241.2	233.9	236.4
55°	144.7	147.1	144.7	142.3	144.7	142.3	149.5	147.1	149.5	142.3	144.7
57.5°	82.0	82.0	84.4	82.0	86.8	84.4	84.4	84.4	84.4	84.4	86.8
60°	45.8	45.8	45.8	45.8	45.8	45.8	48.2	45.8	48.2	45.8	45.8
62.5°	31.4	31.4	31.4	28.9	31.4	28.9	31.4	31.4	31.4	28.9	31.4
65°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
67.5°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
70°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
72.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
75°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P212831

CATALOG NUMBER: LD6B40D010 EU6B30509040 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	2110.3	2086.2	2098.3	2122.4	2088.6	2117.6	2100.7	2071.7	2071.7	2093.5	2098.3
5°	2136.9	2120.0	2129.6	2151.3	2117.6	2146.5	2127.2	2098.3	2095.9	2117.6	2124.8
7.5°	2161.0	2144.1	2156.2	2177.9	2141.7	2170.6	2153.7	2122.4	2117.6	2139.3	2146.5
10°	2168.2	2153.7	2163.4	2187.5	2151.3	2177.9	2165.8	2132.0	2129.6	2146.5	2156.2
12.5°	2180.3	2168.2	2180.3	2204.4	2168.2	2194.7	2182.7	2148.9	2144.1	2165.8	2173.0
15°	2204.4	2192.3	2206.8	2228.5	2194.7	2216.5	2204.4	2170.6	2168.2	2185.1	2194.7
17.5°	2206.8	2197.2	2211.6	2228.5	2194.7	2216.5	2206.8	2170.6	2168.2	2187.5	2194.7
20°	2168.2	2168.2	2180.3	2197.2	2161.0	2182.7	2173.0	2136.9	2136.9	2153.7	2161.0
22.5°	2112.7	2115.2	2127.2	2141.7	2105.5	2127.2	2117.6	2081.4	2083.8	2098.3	2107.9
25°	2040.4	2045.2	2054.9	2069.3	2035.6	2054.9	2040.4	2011.5	2009.0	2025.9	2038.0
27.5°	1946.3	1953.6	1963.2	1975.3	1943.9	1958.4	1948.7	1919.8	1917.4	1934.3	1946.3
30°	1828.2	1837.8	1847.4	1854.7	1825.7	1840.2	1828.2	1801.6	1801.6	1816.1	1823.3
32.5°	1688.3	1697.9	1710.0	1714.8	1685.9	1702.7	1693.1	1664.1	1664.1	1678.6	1693.1
35°	1521.9	1538.7	1546.0	1553.2	1524.3	1533.9	1538.7	1500.1	1505.0	1517.0	1536.3
37.5°	1343.4	1357.8	1367.5	1372.3	1345.8	1355.4	1357.8	1324.1	1328.9	1338.6	1360.3
40°	1143.2	1160.1	1167.3	1169.7	1150.4	1157.7	1160.1	1126.3	1133.6	1140.8	1157.7
42.5°	943.0	945.4	952.7	957.5	940.6	943.0	947.8	916.5	926.1	928.5	945.4
45°	718.7	728.4	733.2	738.0	723.5	728.4	728.4	706.7	709.1	713.9	728.4
47.5°	518.5	525.8	530.6	535.4	523.4	528.2	528.2	506.5	513.7	516.1	525.8
50°	354.5	359.4	361.8	359.4	359.4	359.4	359.4	347.3	354.5	347.3	359.4
52.5°	231.5	233.9	238.8	238.8	231.5	236.4	236.4	226.7	229.1	229.1	236.4
55°	142.3	144.7	147.1	144.7	142.3	144.7	144.7	139.9	144.7	139.9	147.1
57.5°	82.0	84.4	82.0	82.0	82.0	82.0	82.0	82.0	82.0	79.6	84.4
60°	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	48.2
62.5°	28.9	31.4	31.4	31.4	31.4	31.4	31.4	28.9	31.4	31.4	31.4
65°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	26.5
67.5°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	21.7
70°	14.5	14.5	14.5	14.5	14.5	14.5	16.9	16.9	14.5	16.9	16.9
72.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
75°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	9.6
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	2.4	0.0	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P212831

CATALOG NUMBER: LD6B40D010 EU6B30509040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	2095.9	2076.6	2076.6	2054.9	2074.2	2076.6	2052.5	2045.2	2071.7	2042.8	2057.3
5°	2115.2	2095.9	2095.9	2074.2	2088.6	2088.6	2064.5	2052.5	2079.0	2050.0	2062.1
7.5°	2139.3	2117.6	2112.7	2091.0	2103.1	2105.5	2076.6	2059.7	2086.2	2052.5	2064.5
10°	2146.5	2122.4	2120.0	2098.3	2107.9	2110.3	2076.6	2062.1	2083.8	2047.6	2054.9
12.5°	2163.4	2136.9	2136.9	2115.2	2122.4	2122.4	2088.6	2069.3	2088.6	2052.5	2057.3
15°	2182.7	2153.7	2153.7	2132.0	2136.9	2139.3	2098.3	2079.0	2095.9	2057.3	2062.1
17.5°	2182.7	2151.3	2151.3	2132.0	2134.5	2132.0	2093.5	2071.7	2083.8	2042.8	2045.2
20°	2148.9	2117.6	2122.4	2100.7	2103.1	2100.7	2059.7	2038.0	2050.0	2006.6	2011.5
22.5°	2093.5	2064.5	2069.3	2050.0	2050.0	2047.6	2009.0	1987.3	1999.4	1956.0	1958.4
25°	2023.5	1994.6	1999.4	1980.1	1982.5	1982.5	1943.9	1919.8	1931.9	1893.3	1893.3
27.5°	1931.9	1902.9	1910.2	1898.1	1890.9	1893.3	1859.5	1835.4	1847.4	1811.3	1811.3
30°	1813.7	1789.6	1796.8	1787.2	1779.9	1779.9	1751.0	1726.9	1738.9	1707.6	1705.2
32.5°	1673.8	1654.5	1661.7	1654.5	1647.3	1654.5	1623.1	1599.0	1611.1	1587.0	1589.4
35°	1521.9	1502.6	1507.4	1500.1	1495.3	1500.1	1468.8	1451.9	1464.0	1439.9	1449.5
37.5°	1353.0	1319.3	1333.7	1328.9	1324.1	1326.5	1297.6	1285.5	1300.0	1285.5	1292.7
40°	1155.3	1131.1	1140.8	1136.0	1131.1	1143.2	1121.5	1104.6	1116.7	1107.0	1121.5
42.5°	940.6	921.3	933.4	931.0	923.7	938.2	921.3	909.3	928.5	923.7	935.8
45°	723.5	709.1	718.7	718.7	716.3	728.4	711.5	713.9	733.2	740.4	754.9
47.5°	523.4	501.7	513.7	521.0	521.0	533.0	523.4	533.0	554.7	569.2	581.2
50°	356.9	352.1	354.5	356.9	361.8	371.4	369.0	383.5	397.9	422.1	436.5
52.5°	236.4	231.5	236.4	238.8	243.6	253.2	253.2	270.1	287.0	308.7	325.6
55°	147.1	144.7	147.1	149.5	154.4	164.0	166.4	183.3	200.2	221.9	236.4
57.5°	84.4	86.8	86.8	91.6	94.1	101.3	108.5	118.2	137.5	159.2	173.7
60°	48.2	48.2	50.6	53.1	55.5	62.7	67.5	77.2	91.6	113.4	123.0
62.5°	31.4	31.4	33.8	33.8	36.2	41.0	45.8	55.5	67.5	84.4	94.1
65°	26.5	26.5	26.5	28.9	28.9	33.8	38.6	45.8	55.5	67.5	77.2
67.5°	21.7	21.7	21.7	24.1	24.1	26.5	31.4	36.2	43.4	53.1	60.3
70°	16.9	16.9	16.9	19.3	19.3	21.7	24.1	26.5	33.8	41.0	45.8
72.5°	12.1	12.1	14.5	14.5	14.5	16.9	19.3	21.7	26.5	31.4	33.8
75°	9.6	9.6	9.6	9.6	12.1	12.1	14.5	16.9	19.3	21.7	24.1
77.5°	4.8	4.8	7.2	7.2	7.2	9.6	9.6	12.1	14.5	16.9	16.9
80°	4.8	4.8	4.8	4.8	4.8	7.2	7.2	7.2	9.6	12.1	12.1
82.5°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	7.2	7.2	7.2
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
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: P212831

CATALOG NUMBER: LD6B40D010 EU6B30509040 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	2040.4	2047.6	2047.6	2040.4	2021.1	2038.0	2054.9	2038.0	2059.7	2021.1	2021.1
5°	2040.4	2045.2	2042.8	2033.2	2013.9	2028.3	2040.4	2023.5	2040.4	2004.2	2001.8
7.5°	2045.2	2040.4	2035.6	2023.5	1999.4	2009.0	2021.1	2001.8	2018.7	1980.1	1975.3
10°	2035.6	2028.3	2018.7	2001.8	1975.3	1982.5	1989.7	1972.9	1984.9	1946.3	1943.9
12.5°	2035.6	2023.5	2009.0	1989.7	1960.8	1965.6	1972.9	1951.2	1960.8	1924.6	1919.8
15°	2040.4	2018.7	2001.8	1980.1	1948.7	1951.2	1956.0	1931.9	1941.5	1902.9	1900.5
17.5°	2023.5	1999.4	1982.5	1956.0	1922.2	1924.6	1924.6	1900.5	1907.7	1869.2	1866.7
20°	1987.3	1958.4	1939.1	1915.0	1878.8	1878.8	1878.8	1854.7	1859.5	1825.7	1820.9
22.5°	1936.7	1905.3	1886.0	1861.9	1828.2	1825.7	1823.3	1804.0	1804.0	1772.7	1765.4
25°	1869.2	1840.2	1820.9	1799.2	1765.4	1760.6	1760.6	1743.7	1741.3	1712.4	1707.6
27.5°	1792.0	1758.2	1741.3	1722.0	1690.7	1685.9	1683.4	1673.8	1669.0	1637.6	1635.2
30°	1688.3	1659.3	1644.9	1628.0	1599.0	1594.2	1591.8	1582.1	1579.7	1548.4	1548.4
32.5°	1577.3	1541.1	1531.5	1514.6	1492.9	1490.5	1492.9	1480.9	1471.2	1449.5	1444.7
35°	1444.7	1408.5	1401.3	1394.0	1377.1	1372.3	1369.9	1367.5	1355.4	1341.0	1333.7
37.5°	1290.3	1259.0	1259.0	1256.6	1244.5	1244.5	1244.5	1239.7	1227.6	1222.8	1208.3
40°	1123.9	1099.8	1102.2	1104.6	1099.8	1102.2	1104.6	1099.8	1090.1	1085.3	1073.3
42.5°	945.4	933.4	943.0	950.3	950.3	957.5	962.3	962.3	950.3	947.8	938.2
45°	767.0	764.5	783.8	798.3	803.1	815.2	822.4	817.6	817.6	817.6	808.0
47.5°	600.5	610.2	627.1	656.0	665.7	680.1	685.0	692.2	689.8	692.2	685.0
50°	455.8	477.5	499.2	528.2	542.7	559.5	566.8	576.4	576.4	578.8	574.0
52.5°	344.9	361.8	397.9	417.2	434.1	451.0	460.7	470.3	472.7	472.7	467.9
55°	255.7	279.8	303.9	330.4	344.9	361.8	369.0	378.7	378.7	383.5	378.7
57.5°	185.7	209.8	236.4	255.7	272.5	284.6	291.8	299.1	303.9	303.9	301.5
60°	137.5	156.8	178.5	197.8	212.2	224.3	229.1	236.4	238.8	238.8	233.9
62.5°	103.7	123.0	142.3	159.2	168.8	178.5	183.3	188.1	188.1	188.1	185.7
65°	84.4	98.9	113.4	127.8	137.5	144.7	147.1	151.9	149.5	151.9	149.5
67.5°	67.5	77.2	89.2	98.9	106.1	110.9	113.4	118.2	115.8	118.2	115.8
70°	50.6	60.3	67.5	74.8	79.6	84.4	86.8	89.2	86.8	89.2	86.8
72.5°	38.6	43.4	50.6	57.9	60.3	62.7	65.1	65.1	65.1	67.5	65.1
75°	26.5	31.4	36.2	38.6	43.4	45.8	45.8	48.2	48.2	48.2	48.2
77.5°	19.3	21.7	24.1	26.5	28.9	31.4	31.4	33.8	33.8	33.8	33.8
80°	12.1	14.5	14.5	16.9	19.3	19.3	21.7	21.7	21.7	21.7	21.7
82.5°	7.2	9.6	9.6	12.1	12.1	12.1	14.5	14.5	14.5	14.5	14.5
85°	4.8	4.8	4.8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	2.4	2.4
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: P212831

CATALOG NUMBER: LD6B40D010 EU6B30509040 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2071.7	2071.7	2071.7	2071.7
2.5°	2040.4	2028.3	2047.6	2018.7
5°	2018.7	2006.6	2030.7	1994.6
7.5°	1992.2	1980.1	2001.8	1965.6
10°	1958.4	1946.3	1965.6	1927.0
12.5°	1929.4	1917.4	1939.1	1902.9
15°	1907.7	1895.7	1915.0	1881.2
17.5°	1874.0	1859.5	1881.2	1845.0
20°	1825.7	1816.1	1833.0	1796.8
22.5°	1770.3	1760.6	1779.9	1743.7
25°	1712.4	1700.3	1719.6	1683.4
27.5°	1637.6	1628.0	1647.3	1611.1
30°	1548.4	1538.7	1558.0	1524.3
32.5°	1447.1	1437.4	1451.9	1423.0
35°	1331.3	1324.1	1338.6	1307.2
37.5°	1205.9	1198.7	1213.1	1181.8
40°	1070.8	1063.6	1075.7	1061.2
42.5°	938.2	931.0	943.0	931.0
45°	808.0	803.1	815.2	803.1
47.5°	687.4	682.5	694.6	682.5
50°	571.6	574.0	578.8	574.0
52.5°	467.9	467.9	475.1	467.9
55°	378.7	381.1	383.5	378.7
57.5°	301.5	301.5	303.9	301.5
60°	233.9	236.4	236.4	233.9
62.5°	185.7	185.7	185.7	185.7
65°	147.1	147.1	149.5	147.1
67.5°	115.8	113.4	115.8	113.4
70°	86.8	86.8	86.8	86.8
72.5°	67.5	67.5	65.1	65.1
75°	48.2	50.6	48.2	48.2
77.5°	33.8	33.8	33.8	33.8
80°	21.7	21.7	21.7	21.7
82.5°	14.5	14.5	14.5	14.5
85°	9.6	7.2	7.2	7.2
87.5°	4.8	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)