

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: P212830

Luminaire Tested: **LD6B40D010 EU6B30509035 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212830
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 EU6B30509035 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3458.0 lumens
Efficiency: N/A
Efficacy: 80.4 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

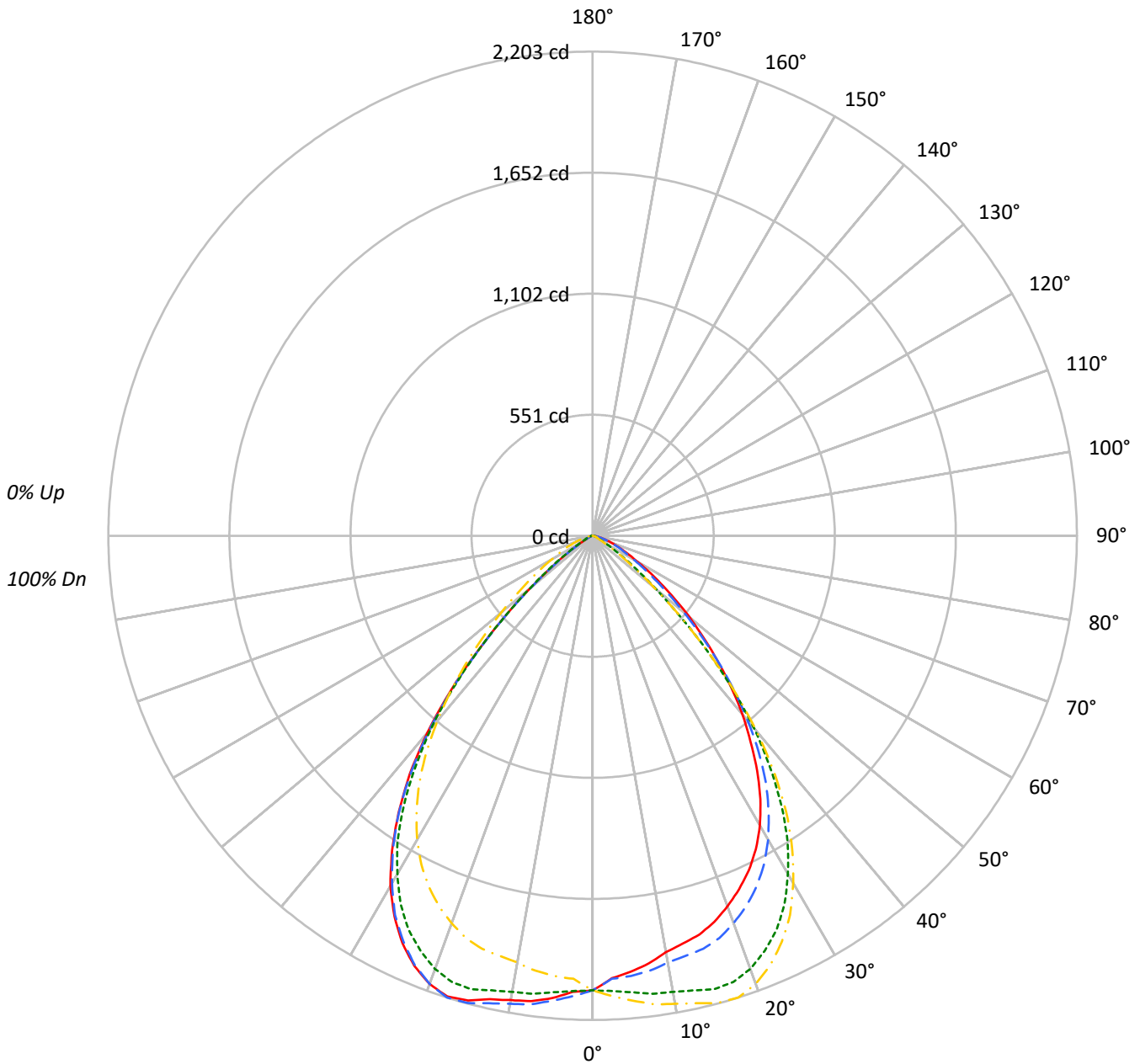
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82			82
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66			66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42			42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	113385	113385	113385	113385
5°	109575	114742	116200	114742
10°	107090	117277	119420	117277
15°	106590	121210	124218	121210
20°	104647	122347	126559	122347
25°	101655	119717	123793	119717
30°	96325	112479	116442	112479
35°	87335	100224	102968	100224
40°	75813	81674	83743	81674
45°	62161	56370	56750	56370
50°	48868	31624	31010	31624
55°	36128	15646	14040	15646
60°	25612	6863	5011	6863
65°	19055	4371	3126	4371
70°	13897	3478	2308	3478
75°	10209	2542	1525	2542
80°	6851	2273	758	2273
85°	4529	1510	1510	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	5.7
10°-20°	586.4	17.0
20°-30°	875.1	25.3
30°-40°	899.1	26.0
40°-50°	582.2	16.8
50°-60°	216.5	6.3
60°-70°	71.0	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°	1659.5	48.0
0°-40°	2558.7	74.0
0°-60°	3357.4	97.1
0°-90°	3458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2068	2068	2068	2068	2068	
5°	1991	2085	2112	2085	1991	188
15°	1878	2136	2189	2136	1878	528
25°	1681	1979	2047	1979	1681	770
35°	1305	1498	1539	1498	1305	810
45°	802	727	732	727	802	620
55°	378	164	147	164	378	345
65°	147	34	24	34	147	149
75°	48	12	7	12	48	53
85°	7	2	2	2	7	9
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°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2015.3	2044.2	2024.9	2037.0	2017.7	2017.7	2056.2	2034.6	2051.4	2034.6	2017.7
5°	1991.2	2027.3	2003.3	2015.3	1998.4	2000.8	2037.0	2020.1	2037.0	2024.9	2010.5
7.5°	1962.3	1998.4	1976.8	1988.8	1972.0	1976.8	2015.3	1998.4	2017.7	2005.7	1996.0
10°	1923.8	1962.3	1943.1	1955.1	1940.7	1943.1	1981.6	1969.5	1986.4	1979.2	1972.0
12.5°	1899.7	1935.8	1914.2	1926.2	1916.6	1921.4	1957.5	1947.9	1969.5	1962.3	1957.5
15°	1878.1	1911.8	1892.5	1904.5	1897.3	1899.7	1938.2	1928.6	1952.7	1947.9	1945.5
17.5°	1841.9	1878.1	1856.4	1870.8	1863.6	1866.0	1904.5	1897.3	1921.4	1921.4	1919.0
20°	1793.8	1829.9	1813.0	1822.7	1817.9	1822.7	1856.4	1851.6	1875.6	1875.6	1875.6
22.5°	1740.8	1776.9	1757.7	1767.3	1762.5	1769.7	1801.0	1801.0	1820.3	1822.7	1825.1
25°	1680.6	1716.7	1697.5	1709.5	1704.7	1709.5	1738.4	1740.8	1757.7	1757.7	1762.5
27.5°	1608.4	1644.5	1625.2	1634.9	1632.5	1634.9	1666.2	1671.0	1680.6	1683.0	1687.8
30°	1521.7	1555.4	1536.2	1545.8	1545.8	1545.8	1577.1	1579.5	1589.1	1591.5	1596.3
32.5°	1420.6	1449.5	1435.0	1444.7	1442.2	1447.1	1468.7	1478.4	1490.4	1488.0	1490.4
35°	1305.0	1336.3	1321.9	1329.1	1331.5	1338.7	1353.2	1365.2	1367.6	1370.0	1374.8
37.5°	1179.8	1211.1	1196.7	1203.9	1206.3	1220.7	1225.6	1237.6	1242.4	1242.4	1242.4
40°	1059.4	1073.9	1061.8	1069.0	1071.5	1083.5	1088.3	1097.9	1102.8	1100.3	1097.9
42.5°	929.4	941.4	929.4	936.6	936.6	946.3	948.7	960.7	960.7	955.9	948.7
45°	801.8	813.8	801.8	806.6	806.6	816.2	816.2	816.2	821.0	813.8	801.8
47.5°	681.4	693.4	681.4	686.2	683.8	691.0	688.6	691.0	683.8	679.0	664.5
50°	573.0	577.9	573.0	570.6	573.0	577.9	575.5	575.5	565.8	558.6	541.7
52.5°	467.1	474.3	467.1	467.1	467.1	471.9	471.9	469.5	459.9	450.3	433.4
55°	378.0	382.8	380.4	378.0	378.0	382.8	378.0	378.0	368.4	361.2	344.3
57.5°	301.0	303.4	301.0	301.0	301.0	303.4	303.4	298.6	291.3	284.1	272.1
60°	233.6	236.0	236.0	233.6	233.6	238.4	238.4	236.0	228.7	223.9	211.9
62.5°	185.4	185.4	185.4	185.4	185.4	187.8	187.8	187.8	183.0	178.2	168.5
65°	146.9	149.3	146.9	146.9	149.3	151.7	149.3	151.7	146.9	144.5	137.2
67.5°	113.2	115.6	113.2	115.6	115.6	118.0	115.6	118.0	113.2	110.8	105.9
70°	86.7	86.7	86.7	86.7	86.7	89.1	86.7	89.1	86.7	84.3	79.5
72.5°	65.0	65.0	67.4	67.4	65.0	67.4	65.0	65.0	65.0	62.6	60.2
75°	48.2	48.2	50.6	48.2	48.2	48.2	48.2	48.2	45.7	45.7	43.3
77.5°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	31.3	31.3	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°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	12.0	12.0
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°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2037.0	2044.2	2044.2	2037.0	2053.8	2039.4	2068.3	2041.8	2049.0	2073.1	2070.7
5°	2029.7	2039.4	2041.8	2037.0	2058.6	2046.6	2075.5	2049.0	2061.0	2085.1	2085.1
7.5°	2020.1	2032.2	2037.0	2041.8	2061.0	2049.0	2082.7	2056.2	2073.1	2102.0	2099.6
10°	1998.4	2015.3	2024.9	2032.2	2051.4	2044.2	2080.3	2058.6	2073.1	2106.8	2104.4
12.5°	1986.4	2005.7	2020.1	2032.2	2053.8	2049.0	2085.1	2065.9	2085.1	2118.8	2118.8
15°	1976.8	1998.4	2015.3	2037.0	2058.6	2053.8	2092.3	2075.5	2094.8	2135.7	2133.3
17.5°	1952.7	1979.2	1996.0	2020.1	2041.8	2039.4	2080.3	2068.3	2089.9	2128.5	2130.9
20°	1911.8	1935.8	1955.1	1984.0	2008.1	2003.3	2046.6	2034.6	2056.2	2097.2	2099.6
22.5°	1858.8	1882.9	1902.1	1933.4	1955.1	1952.7	1996.0	1984.0	2005.7	2044.2	2046.6
25°	1796.2	1817.9	1837.1	1866.0	1890.1	1890.1	1928.6	1916.6	1940.7	1979.2	1979.2
27.5°	1719.1	1738.4	1755.3	1789.0	1808.2	1808.2	1844.3	1832.3	1856.4	1890.1	1887.7
30°	1625.2	1642.1	1656.5	1685.4	1702.3	1704.7	1736.0	1724.0	1748.0	1776.9	1776.9
32.5°	1512.1	1528.9	1538.6	1574.7	1586.7	1584.3	1608.4	1596.3	1620.4	1651.7	1644.5
35°	1391.7	1398.9	1406.1	1442.2	1447.1	1437.4	1461.5	1449.5	1466.3	1497.6	1492.8
37.5°	1254.4	1256.9	1256.9	1288.2	1290.6	1283.3	1297.8	1283.3	1295.4	1324.3	1321.9
40°	1102.8	1100.3	1097.9	1122.0	1119.6	1105.2	1114.8	1102.8	1119.6	1141.3	1129.2
42.5°	948.7	941.4	931.8	943.8	934.2	922.2	927.0	907.7	919.8	936.6	922.2
45°	797.0	782.5	763.3	765.7	753.6	739.2	732.0	712.7	710.3	727.1	715.1
47.5°	654.9	626.0	609.2	599.5	580.3	568.2	553.8	532.1	522.5	532.1	520.1
50°	527.3	498.4	476.7	455.1	435.8	421.4	397.3	382.8	368.4	370.8	361.2
52.5°	416.5	397.3	361.2	344.3	325.0	308.2	286.5	269.7	252.8	252.8	243.2
55°	329.9	303.4	279.3	255.2	236.0	221.5	199.8	183.0	166.1	163.7	154.1
57.5°	255.2	236.0	209.5	185.4	173.4	158.9	137.2	118.0	108.3	101.1	93.9
60°	197.4	178.2	156.5	137.2	122.8	113.2	91.5	77.0	67.4	62.6	55.4
62.5°	158.9	142.1	122.8	103.5	93.9	84.3	67.4	55.4	45.7	40.9	36.1
65°	127.6	113.2	98.7	84.3	77.0	67.4	55.4	45.7	38.5	33.7	28.9
67.5°	98.7	89.1	77.0	67.4	60.2	53.0	43.3	36.1	31.3	26.5	24.1
70°	74.6	67.4	60.2	50.6	45.7	40.9	33.7	26.5	24.1	21.7	19.3
72.5°	57.8	50.6	43.3	38.5	33.7	31.3	26.5	21.7	19.3	16.9	14.4
75°	38.5	36.1	31.3	26.5	24.1	21.7	19.3	16.9	14.4	12.0	12.0
77.5°	26.5	24.1	21.7	19.3	16.9	16.9	14.4	12.0	9.6	9.6	7.2
80°	16.9	14.4	14.4	12.0	12.0	12.0	9.6	7.2	7.2	7.2	4.8
82.5°	12.0	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°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2051.4	2073.1	2073.1	2092.3	2094.8	2089.9	2068.3	2068.3	2097.2	2114.0	2085.1
5°	2070.7	2092.3	2092.3	2111.6	2121.2	2114.0	2092.3	2094.8	2123.6	2142.9	2114.0
7.5°	2087.5	2109.2	2114.0	2135.7	2142.9	2135.7	2114.0	2118.8	2150.1	2167.0	2138.1
10°	2094.8	2116.4	2118.8	2142.9	2152.5	2142.9	2126.1	2128.5	2162.2	2174.2	2147.7
12.5°	2111.6	2133.3	2133.3	2159.8	2169.4	2162.2	2140.5	2145.3	2179.0	2191.1	2164.6
15°	2128.5	2150.1	2150.1	2179.0	2191.1	2181.4	2164.6	2167.0	2200.7	2212.7	2191.1
17.5°	2128.5	2147.7	2147.7	2179.0	2191.1	2183.8	2164.6	2167.0	2203.1	2212.7	2191.1
20°	2097.2	2118.8	2114.0	2145.3	2157.4	2150.1	2133.3	2133.3	2169.4	2179.0	2157.4
22.5°	2046.6	2065.9	2061.0	2089.9	2104.4	2094.8	2080.3	2077.9	2114.0	2123.6	2102.0
25°	1976.8	1996.0	1991.2	2020.1	2034.6	2022.5	2005.7	2008.1	2037.0	2051.4	2032.2
27.5°	1894.9	1906.9	1899.7	1928.6	1943.1	1931.0	1914.2	1916.6	1945.5	1955.1	1940.7
30°	1784.2	1793.8	1786.6	1810.6	1820.3	1813.0	1798.6	1798.6	1825.1	1837.1	1822.7
32.5°	1651.7	1658.9	1651.7	1671.0	1690.2	1675.8	1661.4	1661.4	1690.2	1699.9	1683.0
35°	1497.6	1504.9	1500.0	1519.3	1533.7	1514.5	1502.4	1497.6	1536.2	1531.3	1521.7
37.5°	1326.7	1331.5	1317.0	1350.8	1358.0	1336.3	1326.7	1321.9	1355.6	1353.2	1343.5
40°	1134.1	1138.9	1129.2	1153.3	1155.7	1138.9	1131.6	1124.4	1158.1	1155.7	1148.5
42.5°	929.4	931.8	919.8	939.0	943.8	927.0	924.6	914.9	946.3	941.4	939.0
45°	717.5	717.5	707.9	722.3	727.1	712.7	707.9	705.5	727.1	727.1	722.3
47.5°	520.1	512.9	500.8	522.5	524.9	515.3	512.9	505.6	527.3	527.3	522.5
50°	356.3	353.9	351.5	356.3	358.8	346.7	353.9	346.7	358.8	358.8	358.8
52.5°	238.4	236.0	231.1	236.0	236.0	228.7	228.7	226.3	236.0	236.0	231.1
55°	149.3	146.9	144.5	146.9	146.9	139.7	144.5	139.7	144.5	144.5	142.1
57.5°	91.5	86.7	86.7	84.3	84.3	79.5	81.9	81.9	81.9	81.9	81.9
60°	53.0	50.6	48.2	48.2	48.2	45.7	45.7	45.7	45.7	45.7	45.7
62.5°	33.7	33.7	31.3	31.3	31.3	31.3	31.3	28.9	31.3	31.3	31.3
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	14.4	16.9	16.9	14.4	14.4
72.5°	14.4	14.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
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: P212830

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2118.8	2094.8	2082.7	2106.8	2116.4	2104.4	2094.8	2077.9	2094.8	2104.4	2116.4
5°	2147.7	2126.1	2116.4	2133.3	2147.7	2135.7	2128.5	2111.6	2128.5	2135.7	2147.7
7.5°	2174.2	2152.5	2140.5	2157.4	2174.2	2157.4	2150.1	2135.7	2150.1	2157.4	2174.2
10°	2183.8	2159.8	2150.1	2164.6	2181.4	2164.6	2154.9	2145.3	2154.9	2164.6	2181.4
12.5°	2200.7	2176.6	2164.6	2176.6	2193.5	2176.6	2167.0	2159.8	2167.0	2176.6	2193.5
15°	2224.8	2203.1	2188.7	2200.7	2222.4	2203.1	2191.1	2188.7	2191.1	2203.1	2222.4
17.5°	2224.8	2207.9	2193.5	2203.1	2224.8	2210.3	2193.5	2198.3	2193.5	2210.3	2224.8
20°	2193.5	2176.6	2164.6	2164.6	2195.9	2176.6	2162.2	2169.4	2162.2	2176.6	2195.9
22.5°	2138.1	2123.6	2111.6	2109.2	2140.5	2123.6	2104.4	2118.8	2104.4	2123.6	2140.5
25°	2065.9	2051.4	2041.8	2037.0	2068.3	2049.0	2032.2	2046.6	2032.2	2049.0	2068.3
27.5°	1972.0	1959.9	1950.3	1943.1	1972.0	1955.1	1938.2	1952.7	1938.2	1955.1	1972.0
30°	1851.6	1844.3	1834.7	1825.1	1854.0	1837.1	1820.3	1839.5	1820.3	1837.1	1854.0
32.5°	1711.9	1707.1	1695.1	1685.4	1714.3	1695.1	1683.0	1697.5	1683.0	1695.1	1714.3
35°	1550.6	1543.4	1536.2	1519.3	1550.6	1533.7	1533.7	1538.6	1533.7	1533.7	1550.6
37.5°	1370.0	1365.2	1355.6	1341.1	1367.6	1355.6	1350.8	1365.2	1350.8	1355.6	1367.6
40°	1167.8	1165.4	1158.1	1141.3	1170.2	1158.1	1150.9	1170.2	1150.9	1158.1	1170.2
42.5°	955.9	951.1	943.8	941.4	955.9	946.3	953.5	953.5	953.5	946.3	955.9
45°	736.8	732.0	727.1	717.5	734.4	729.6	727.1	732.0	727.1	729.6	734.4
47.5°	534.5	529.7	524.9	517.7	534.5	527.3	527.3	532.1	527.3	527.3	534.5
50°	358.8	361.2	358.8	353.9	358.8	356.3	358.8	363.6	358.8	356.3	358.8
52.5°	238.4	238.4	233.6	231.1	236.0	233.6	240.8	236.0	240.8	233.6	236.0
55°	144.5	146.9	144.5	142.1	144.5	142.1	149.3	146.9	149.3	142.1	144.5
57.5°	81.9	81.9	84.3	81.9	86.7	84.3	84.3	84.3	84.3	84.3	86.7
60°	45.7	45.7	45.7	45.7	45.7	45.7	48.2	45.7	48.2	45.7	45.7
62.5°	31.3	31.3	31.3	28.9	31.3	28.9	31.3	31.3	31.3	28.9	31.3
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°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
72.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
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



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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2106.8	2082.7	2094.8	2118.8	2085.1	2114.0	2097.2	2068.3	2068.3	2089.9	2094.8
5°	2133.3	2116.4	2126.1	2147.7	2114.0	2142.9	2123.6	2094.8	2092.3	2114.0	2121.2
7.5°	2157.4	2140.5	2152.5	2174.2	2138.1	2167.0	2150.1	2118.8	2114.0	2135.7	2142.9
10°	2164.6	2150.1	2159.8	2183.8	2147.7	2174.2	2162.2	2128.5	2126.1	2142.9	2152.5
12.5°	2176.6	2164.6	2176.6	2200.7	2164.6	2191.1	2179.0	2145.3	2140.5	2162.2	2169.4
15°	2200.7	2188.7	2203.1	2224.8	2191.1	2212.7	2200.7	2167.0	2164.6	2181.4	2191.1
17.5°	2203.1	2193.5	2207.9	2224.8	2191.1	2212.7	2203.1	2167.0	2164.6	2183.8	2191.1
20°	2164.6	2164.6	2176.6	2193.5	2157.4	2179.0	2169.4	2133.3	2133.3	2150.1	2157.4
22.5°	2109.2	2111.6	2123.6	2138.1	2102.0	2123.6	2114.0	2077.9	2080.3	2094.8	2104.4
25°	2037.0	2041.8	2051.4	2065.9	2032.2	2051.4	2037.0	2008.1	2005.7	2022.5	2034.6
27.5°	1943.1	1950.3	1959.9	1972.0	1940.7	1955.1	1945.5	1916.6	1914.2	1931.0	1943.1
30°	1825.1	1834.7	1844.3	1851.6	1822.7	1837.1	1825.1	1798.6	1798.6	1813.0	1820.3
32.5°	1685.4	1695.1	1707.1	1711.9	1683.0	1699.9	1690.2	1661.4	1661.4	1675.8	1690.2
35°	1519.3	1536.2	1543.4	1550.6	1521.7	1531.3	1536.2	1497.6	1502.4	1514.5	1533.7
37.5°	1341.1	1355.6	1365.2	1370.0	1343.5	1353.2	1355.6	1321.9	1326.7	1336.3	1358.0
40°	1141.3	1158.1	1165.4	1167.8	1148.5	1155.7	1158.1	1124.4	1131.6	1138.9	1155.7
42.5°	941.4	943.8	951.1	955.9	939.0	941.4	946.3	914.9	924.6	927.0	943.8
45°	717.5	727.1	732.0	736.8	722.3	727.1	727.1	705.5	707.9	712.7	727.1
47.5°	517.7	524.9	529.7	534.5	522.5	527.3	527.3	505.6	512.9	515.3	524.9
50°	353.9	358.8	361.2	358.8	358.8	358.8	358.8	346.7	353.9	346.7	358.8
52.5°	231.1	233.6	238.4	238.4	231.1	236.0	236.0	226.3	228.7	228.7	236.0
55°	142.1	144.5	146.9	144.5	142.1	144.5	144.5	139.7	144.5	139.7	146.9
57.5°	81.9	84.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	79.5	84.3
60°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	48.2
62.5°	28.9	31.3	31.3	31.3	31.3	31.3	31.3	28.9	31.3	31.3	31.3
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°	14.4	14.4	14.4	14.4	14.4	14.4	16.9	16.9	14.4	16.9	16.9
72.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
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



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2092.3	2073.1	2073.1	2051.4	2070.7	2073.1	2049.0	2041.8	2068.3	2039.4	2053.8
5°	2111.6	2092.3	2092.3	2070.7	2085.1	2085.1	2061.0	2049.0	2075.5	2046.6	2058.6
7.5°	2135.7	2114.0	2109.2	2087.5	2099.6	2102.0	2073.1	2056.2	2082.7	2049.0	2061.0
10°	2142.9	2118.8	2116.4	2094.8	2104.4	2106.8	2073.1	2058.6	2080.3	2044.2	2051.4
12.5°	2159.8	2133.3	2133.3	2111.6	2118.8	2118.8	2085.1	2065.9	2085.1	2049.0	2053.8
15°	2179.0	2150.1	2150.1	2128.5	2133.3	2135.7	2094.8	2075.5	2092.3	2053.8	2058.6
17.5°	2179.0	2147.7	2147.7	2128.5	2130.9	2128.5	2089.9	2068.3	2080.3	2039.4	2041.8
20°	2145.3	2114.0	2118.8	2097.2	2099.6	2097.2	2056.2	2034.6	2046.6	2003.3	2008.1
22.5°	2089.9	2061.0	2065.9	2046.6	2046.6	2044.2	2005.7	1984.0	1996.0	1952.7	1955.1
25°	2020.1	1991.2	1996.0	1976.8	1979.2	1979.2	1940.7	1916.6	1928.6	1890.1	1890.1
27.5°	1928.6	1899.7	1906.9	1894.9	1887.7	1890.1	1856.4	1832.3	1844.3	1808.2	1808.2
30°	1810.6	1786.6	1793.8	1784.2	1776.9	1776.9	1748.0	1724.0	1736.0	1704.7	1702.3
32.5°	1671.0	1651.7	1658.9	1651.7	1644.5	1651.7	1620.4	1596.3	1608.4	1584.3	1586.7
35°	1519.3	1500.0	1504.9	1497.6	1492.8	1497.6	1466.3	1449.5	1461.5	1437.4	1447.1
37.5°	1350.8	1317.0	1331.5	1326.7	1321.9	1324.3	1295.4	1283.3	1297.8	1283.3	1290.6
40°	1153.3	1129.2	1138.9	1134.1	1129.2	1141.3	1119.6	1102.8	1114.8	1105.2	1119.6
42.5°	939.0	919.8	931.8	929.4	922.2	936.6	919.8	907.7	927.0	922.2	934.2
45°	722.3	707.9	717.5	717.5	715.1	727.1	710.3	712.7	732.0	739.2	753.6
47.5°	522.5	500.8	512.9	520.1	520.1	532.1	522.5	532.1	553.8	568.2	580.3
50°	356.3	351.5	353.9	356.3	361.2	370.8	368.4	382.8	397.3	421.4	435.8
52.5°	236.0	231.1	236.0	238.4	243.2	252.8	252.8	269.7	286.5	308.2	325.0
55°	146.9	144.5	146.9	149.3	154.1	163.7	166.1	183.0	199.8	221.5	236.0
57.5°	84.3	86.7	86.7	91.5	93.9	101.1	108.3	118.0	137.2	158.9	173.4
60°	48.2	48.2	50.6	53.0	55.4	62.6	67.4	77.0	91.5	113.2	122.8
62.5°	31.3	31.3	33.7	33.7	36.1	40.9	45.7	55.4	67.4	84.3	93.9
65°	26.5	26.5	26.5	28.9	28.9	33.7	38.5	45.7	55.4	67.4	77.0
67.5°	21.7	21.7	21.7	24.1	24.1	26.5	31.3	36.1	43.3	53.0	60.2
70°	16.9	16.9	16.9	19.3	19.3	21.7	24.1	26.5	33.7	40.9	45.7
72.5°	12.0	12.0	14.4	14.4	14.4	16.9	19.3	21.7	26.5	31.3	33.7
75°	9.6	9.6	9.6	9.6	12.0	12.0	14.4	16.9	19.3	21.7	24.1
77.5°	4.8	4.8	7.2	7.2	7.2	9.6	9.6	12.0	14.4	16.9	16.9
80°	4.8	4.8	4.8	4.8	4.8	7.2	7.2	7.2	9.6	12.0	12.0
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: P212830

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2037.0	2044.2	2044.2	2037.0	2017.7	2034.6	2051.4	2034.6	2056.2	2017.7	2017.7
5°	2037.0	2041.8	2039.4	2029.7	2010.5	2024.9	2037.0	2020.1	2037.0	2000.8	1998.4
7.5°	2041.8	2037.0	2032.2	2020.1	1996.0	2005.7	2017.7	1998.4	2015.3	1976.8	1972.0
10°	2032.2	2024.9	2015.3	1998.4	1972.0	1979.2	1986.4	1969.5	1981.6	1943.1	1940.7
12.5°	2032.2	2020.1	2005.7	1986.4	1957.5	1962.3	1969.5	1947.9	1957.5	1921.4	1916.6
15°	2037.0	2015.3	1998.4	1976.8	1945.5	1947.9	1952.7	1928.6	1938.2	1899.7	1897.3
17.5°	2020.1	1996.0	1979.2	1952.7	1919.0	1921.4	1921.4	1897.3	1904.5	1866.0	1863.6
20°	1984.0	1955.1	1935.8	1911.8	1875.6	1875.6	1875.6	1851.6	1856.4	1822.7	1817.9
22.5°	1933.4	1902.1	1882.9	1858.8	1825.1	1822.7	1820.3	1801.0	1801.0	1769.7	1762.5
25°	1866.0	1837.1	1817.9	1796.2	1762.5	1757.7	1757.7	1740.8	1738.4	1709.5	1704.7
27.5°	1789.0	1755.3	1738.4	1719.1	1687.8	1683.0	1680.6	1671.0	1666.2	1634.9	1632.5
30°	1685.4	1656.5	1642.1	1625.2	1596.3	1591.5	1589.1	1579.5	1577.1	1545.8	1545.8
32.5°	1574.7	1538.6	1528.9	1512.1	1490.4	1488.0	1490.4	1478.4	1468.7	1447.1	1442.2
35°	1442.2	1406.1	1398.9	1391.7	1374.8	1370.0	1367.6	1365.2	1353.2	1338.7	1331.5
37.5°	1288.2	1256.9	1256.9	1254.4	1242.4	1242.4	1242.4	1237.6	1225.6	1220.7	1206.3
40°	1122.0	1097.9	1100.3	1102.8	1097.9	1100.3	1102.8	1097.9	1088.3	1083.5	1071.5
42.5°	943.8	931.8	941.4	948.7	948.7	955.9	960.7	960.7	948.7	946.3	936.6
45°	765.7	763.3	782.5	797.0	801.8	813.8	821.0	816.2	816.2	816.2	806.6
47.5°	599.5	609.2	626.0	654.9	664.5	679.0	683.8	691.0	688.6	691.0	683.8
50°	455.1	476.7	498.4	527.3	541.7	558.6	565.8	575.5	575.5	577.9	573.0
52.5°	344.3	361.2	397.3	416.5	433.4	450.3	459.9	469.5	471.9	471.9	467.1
55°	255.2	279.3	303.4	329.9	344.3	361.2	368.4	378.0	378.0	382.8	378.0
57.5°	185.4	209.5	236.0	255.2	272.1	284.1	291.3	298.6	303.4	303.4	301.0
60°	137.2	156.5	178.2	197.4	211.9	223.9	228.7	236.0	238.4	238.4	233.6
62.5°	103.5	122.8	142.1	158.9	168.5	178.2	183.0	187.8	187.8	187.8	185.4
65°	84.3	98.7	113.2	127.6	137.2	144.5	146.9	151.7	149.3	151.7	149.3
67.5°	67.4	77.0	89.1	98.7	105.9	110.8	113.2	118.0	115.6	118.0	115.6
70°	50.6	60.2	67.4	74.6	79.5	84.3	86.7	89.1	86.7	89.1	86.7
72.5°	38.5	43.3	50.6	57.8	60.2	62.6	65.0	65.0	65.0	67.4	65.0
75°	26.5	31.3	36.1	38.5	43.3	45.7	45.7	48.2	48.2	48.2	48.2
77.5°	19.3	21.7	24.1	26.5	28.9	31.3	31.3	33.7	33.7	33.7	33.7
80°	12.0	14.4	14.4	16.9	19.3	19.3	21.7	21.7	21.7	21.7	21.7
82.5°	7.2	9.6	9.6	12.0	12.0	12.0	14.4	14.4	14.4	14.4	14.4
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: P212830

CATALOG NUMBER: LD6B40D010 EU6B30509035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2068.3	2068.3	2068.3	2068.3
2.5°	2037.0	2024.9	2044.2	2015.3
5°	2015.3	2003.3	2027.3	1991.2
7.5°	1988.8	1976.8	1998.4	1962.3
10°	1955.1	1943.1	1962.3	1923.8
12.5°	1926.2	1914.2	1935.8	1899.7
15°	1904.5	1892.5	1911.8	1878.1
17.5°	1870.8	1856.4	1878.1	1841.9
20°	1822.7	1813.0	1829.9	1793.8
22.5°	1767.3	1757.7	1776.9	1740.8
25°	1709.5	1697.5	1716.7	1680.6
27.5°	1634.9	1625.2	1644.5	1608.4
30°	1545.8	1536.2	1555.4	1521.7
32.5°	1444.7	1435.0	1449.5	1420.6
35°	1329.1	1321.9	1336.3	1305.0
37.5°	1203.9	1196.7	1211.1	1179.8
40°	1069.0	1061.8	1073.9	1059.4
42.5°	936.6	929.4	941.4	929.4
45°	806.6	801.8	813.8	801.8
47.5°	686.2	681.4	693.4	681.4
50°	570.6	573.0	577.9	573.0
52.5°	467.1	467.1	474.3	467.1
55°	378.0	380.4	382.8	378.0
57.5°	301.0	301.0	303.4	301.0
60°	233.6	236.0	236.0	233.6
62.5°	185.4	185.4	185.4	185.4
65°	146.9	146.9	149.3	146.9
67.5°	115.6	113.2	115.6	113.2
70°	86.7	86.7	86.7	86.7
72.5°	67.4	67.4	65.0	65.0
75°	48.2	50.6	48.2	48.2
77.5°	33.7	33.7	33.7	33.7
80°	21.7	21.7	21.7	21.7
82.5°	14.4	14.4	14.4	14.4
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)