

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: P252523

Luminaire Tested: **LD6B60D010TE EU6B60709024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252523
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: LD6B60D010TE EU6B60709024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3664.0 lumens
Efficiency: N/A
Efficacy: 58.6 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

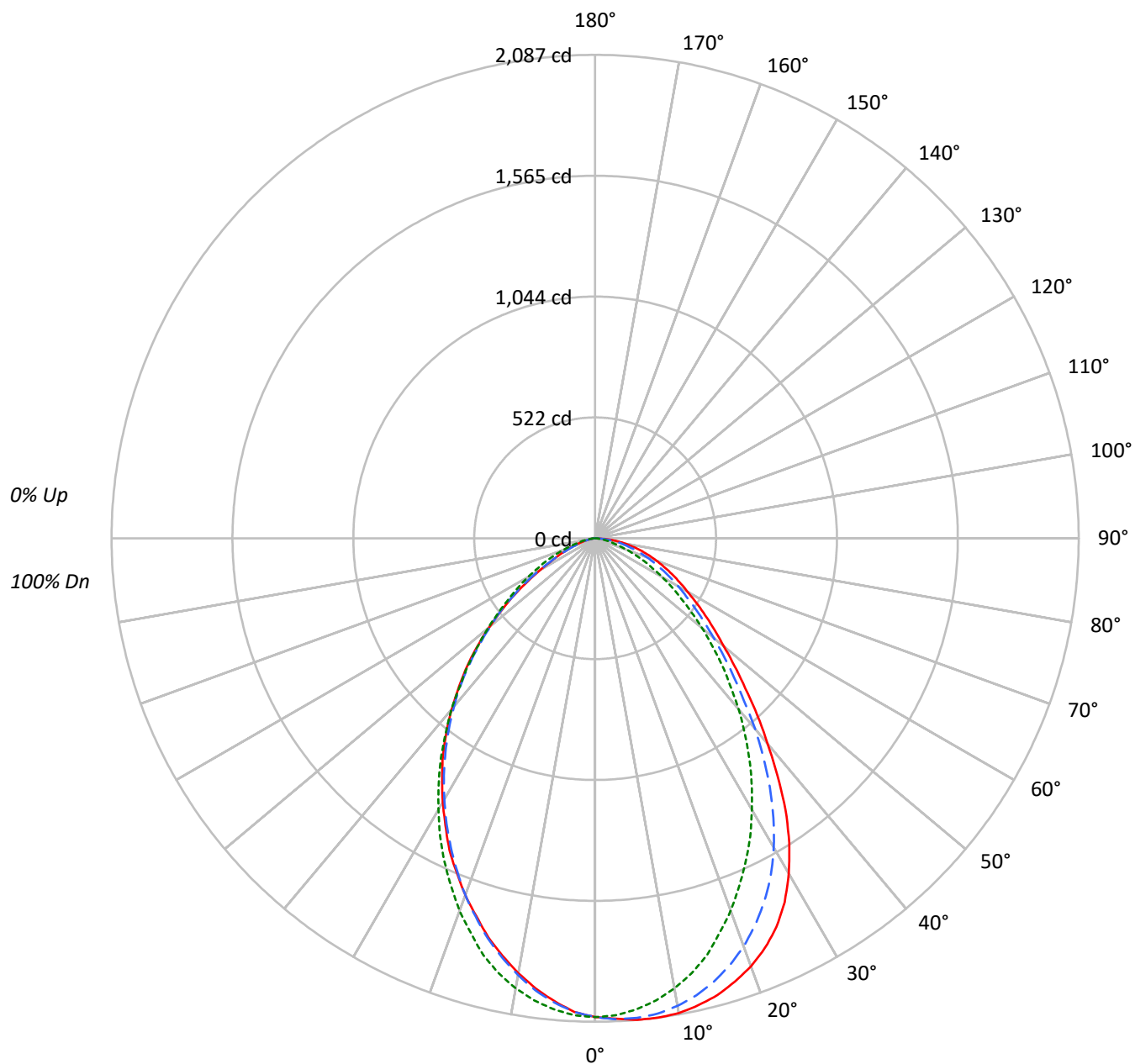
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	93	84	78	73	81	76	71		79	74	70		76
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	37		48	42	37		47
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	134852	134852	134852
5°	136684	133678	131418
10°	137887	130659	126287
15°	137867	125844	120414
20°	136536	118791	113813
25°	133295	110771	107049
30°	125875	101866	99056
35°	114098	92371	91232
40°	98537	82151	81904
45°	84496	71514	72049
50°	73433	61192	60319
55°	65960	51594	48330
60°	59930	43450	35582
65°	56284	35892	26151
70°	53658	27926	19170
75°	51372	20266	13032
80°	48541	14014	8641
85°	42967	8608	4267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	5.3
10°-20°	529.6	14.5
20°-30°	735.2	20.1
30°-40°	761.5	20.8
40°-50°	625.8	17.1
50°-60°	430.1	11.7
60°-70°	247.2	6.7
70°-80°	113.7	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°	1458.1	39.8
0°-40°	2219.6	60.6
0°-60°	3275.4	89.4
0°-90°	3664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2067	2067	2067	2067	2067	
5°	2087	2078	2041	2012	2007	199
15°	2041	1981	1863	1789	1783	575
25°	1852	1728	1539	1473	1487	847
35°	1433	1315	1160	1125	1146	888
45°	916	847	775	766	781	713
55°	580	525	454	428	425	522
65°	365	319	232	164	169	363
75°	204	161	80	52	52	215
85°	57	40	12	6	6	64
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°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2075.7	2092.9	2081.4	2078.5	2084.3	2084.3	2084.3	2075.7	2081.4	2072.8	2078.5
5°	2087.1	2101.5	2090.0	2084.3	2090.0	2092.9	2084.3	2078.5	2087.1	2075.7	2078.5
7.5°	2087.1	2101.5	2090.0	2087.1	2090.0	2090.0	2087.1	2075.7	2081.4	2069.9	2069.9
10°	2081.4	2092.9	2081.4	2075.7	2078.5	2075.7	2075.7	2061.3	2064.2	2049.8	2049.8
12.5°	2064.2	2078.5	2064.2	2058.4	2058.4	2058.4	2049.8	2038.3	2041.2	2024.0	2021.1
15°	2041.2	2052.7	2038.3	2032.6	2032.6	2029.7	2024.0	2006.7	2006.7	1989.5	1980.9
17.5°	2006.7	2018.2	2006.7	1998.1	1995.3	1989.5	1983.8	1966.6	1960.8	1940.7	1932.1
20°	1966.6	1975.2	1963.7	1955.1	1949.3	1943.6	1932.1	1914.9	1909.1	1889.0	1874.7
22.5°	1914.9	1926.4	1909.1	1900.5	1894.8	1886.2	1874.7	1857.5	1848.9	1823.0	1805.8
25°	1851.7	1857.5	1843.1	1834.5	1823.0	1817.3	1808.7	1785.7	1777.1	1748.4	1728.3
27.5°	1771.3	1777.1	1759.9	1754.1	1739.8	1734.0	1722.5	1702.4	1691.0	1662.2	1642.1
30°	1670.9	1676.6	1665.1	1656.5	1645.0	1633.5	1624.9	1604.8	1587.6	1558.9	1541.7
32.5°	1558.9	1567.5	1556.0	1544.5	1524.4	1527.3	1513.0	1492.9	1478.5	1452.7	1432.6
35°	1432.6	1438.3	1424.0	1421.1	1409.6	1398.1	1383.8	1369.4	1360.8	1332.1	1314.9
37.5°	1291.9	1306.3	1291.9	1280.4	1274.7	1266.1	1257.4	1237.4	1231.6	1214.4	1191.4
40°	1157.0	1165.6	1157.0	1145.5	1136.9	1136.9	1125.4	1113.9	1099.5	1082.3	1073.7
42.5°	1036.4	1030.6	1027.8	1022.0	1010.6	1007.7	1004.8	990.5	981.8	964.6	950.3
45°	915.8	918.7	912.9	910.1	901.5	895.7	890.0	878.5	875.6	858.4	846.9
47.5°	815.3	812.5	806.7	806.7	801.0	795.2	789.5	780.9	778.0	763.7	752.2
50°	723.5	726.3	723.5	720.6	712.0	709.1	703.4	697.6	691.9	677.5	666.0
52.5°	648.8	645.9	643.1	643.1	634.5	631.6	625.9	620.1	614.4	600.0	591.4
55°	579.9	579.9	577.0	574.2	565.6	562.7	559.8	554.1	545.5	534.0	525.4
57.5°	516.8	516.8	513.9	511.0	505.3	505.3	499.5	493.8	488.1	476.6	465.1
60°	459.3	462.2	459.3	456.5	450.7	450.7	447.9	439.2	436.4	422.0	413.4
62.5°	410.5	410.5	410.5	407.7	404.8	399.1	399.1	390.4	384.7	376.1	364.6
65°	364.6	364.6	364.6	361.7	356.0	353.1	350.2	344.5	338.8	330.2	318.7
67.5°	321.5	321.5	321.5	318.7	312.9	310.1	307.2	304.3	295.7	287.1	275.6
70°	281.3	281.3	278.5	275.6	272.7	269.9	267.0	261.3	255.5	244.0	235.4
72.5°	241.2	241.2	241.2	235.4	232.5	232.5	226.8	223.9	218.2	206.7	198.1
75°	203.8	201.0	201.0	198.1	195.2	192.3	189.5	186.6	178.0	172.3	160.8
77.5°	166.5	166.5	163.6	160.8	160.8	157.9	155.0	149.3	146.4	137.8	129.2
80°	129.2	129.2	129.2	129.2	126.3	123.4	123.4	117.7	114.8	106.2	100.5
82.5°	97.6	94.7	94.7	94.7	91.9	89.0	89.0	86.1	83.3	77.5	71.8
85°	57.4	54.5	54.5	54.5	51.7	51.7	48.8	48.8	45.9	40.2	40.2
87.5°	17.2	17.2	20.1	20.1	17.2	17.2	17.2	17.2	17.2	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°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2072.8	2081.4	2069.9	2067.0	2078.5	2072.8	2069.9	2064.2	2067.0	2061.3	2052.7
5°	2069.9	2081.4	2067.0	2058.4	2072.8	2064.2	2058.4	2052.7	2052.7	2041.2	2035.5
7.5°	2061.3	2067.0	2052.7	2044.1	2052.7	2044.1	2038.3	2029.7	2026.8	2012.5	2003.9
10°	2038.3	2044.1	2026.8	2015.4	2024.0	2012.5	2003.9	1995.3	1989.5	1972.3	1960.8
12.5°	2006.7	2009.6	1989.5	1975.2	1980.9	1972.3	1957.9	1946.5	1940.7	1923.5	1909.1
15°	1963.7	1966.6	1943.6	1923.5	1929.2	1917.8	1900.5	1889.0	1880.4	1863.2	1843.1
17.5°	1912.0	1909.1	1883.3	1863.2	1866.1	1851.7	1834.5	1817.3	1805.8	1785.7	1771.3
20°	1854.6	1846.0	1817.3	1794.3	1797.2	1779.9	1759.9	1742.6	1728.3	1711.0	1691.0
22.5°	1782.8	1771.3	1745.5	1716.8	1719.7	1705.3	1676.6	1662.2	1647.9	1624.9	1607.7
25°	1705.3	1688.1	1662.2	1633.5	1633.5	1616.3	1593.3	1576.1	1561.8	1538.8	1518.7
27.5°	1613.4	1604.8	1570.4	1547.4	1544.5	1527.3	1507.2	1487.1	1469.9	1449.8	1429.7
30°	1513.0	1498.6	1472.8	1446.9	1441.2	1426.8	1406.7	1383.8	1372.3	1352.2	1335.0
32.5°	1406.7	1392.4	1363.7	1337.8	1335.0	1323.5	1306.3	1283.3	1271.8	1257.4	1246.0
35°	1286.2	1280.4	1251.7	1231.6	1231.6	1220.1	1202.9	1182.8	1174.2	1159.8	1145.5
37.5°	1171.3	1162.7	1136.9	1119.6	1119.6	1105.3	1088.1	1079.5	1070.8	1059.4	1050.7
40°	1050.7	1045.0	1024.9	1007.7	1010.6	999.1	987.6	976.1	970.4	964.6	956.0
42.5°	938.8	933.0	918.7	904.3	904.3	895.7	884.2	875.6	869.9	861.3	858.4
45°	838.3	829.7	818.2	803.8	803.8	795.2	789.5	783.8	780.9	775.1	766.5
47.5°	740.7	734.9	723.5	709.1	709.1	709.1	697.6	689.0	689.0	683.3	680.4
50°	657.4	648.8	640.2	628.7	628.7	623.0	614.4	605.8	605.8	602.9	597.1
52.5°	579.9	574.2	562.7	551.2	551.2	545.5	536.9	534.0	531.1	522.5	519.6
55°	513.9	508.1	499.5	485.2	482.3	479.4	470.8	465.1	462.2	453.6	453.6
57.5°	453.6	447.9	433.5	424.9	422.0	416.3	407.7	401.9	399.1	393.3	387.6
60°	401.9	393.3	381.8	370.3	367.5	361.7	353.1	347.4	344.5	333.0	327.3
62.5°	353.1	344.5	333.0	321.5	318.7	312.9	301.4	295.7	290.0	278.5	272.7
65°	307.2	298.6	287.1	275.6	269.9	267.0	255.5	246.9	241.2	232.5	221.1
67.5°	264.1	255.5	244.0	229.7	229.7	221.1	212.4	203.8	195.2	186.6	178.0
70°	223.9	215.3	203.8	192.3	189.5	183.7	175.1	163.6	157.9	146.4	137.8
72.5°	186.6	178.0	166.5	155.0	152.2	146.4	137.8	126.3	117.7	109.1	100.5
75°	152.2	143.5	132.1	123.4	120.6	114.8	106.2	94.7	86.1	80.4	71.8
77.5°	120.6	112.0	103.4	94.7	91.9	86.1	77.5	71.8	63.2	57.4	48.8
80°	91.9	86.1	77.5	71.8	68.9	63.2	57.4	48.8	43.1	37.3	34.5
82.5°	66.0	60.3	54.5	45.9	45.9	40.2	37.3	31.6	25.8	23.0	20.1
85°	37.3	31.6	28.7	25.8	23.0	23.0	20.1	17.2	14.4	11.5	11.5
87.5°	11.5	11.5	8.6	8.6	8.6	8.6	5.7	5.7	5.7	5.7	5.7
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°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2052.7	2055.6	2049.8	2055.6	2049.8	2052.7	2046.9	2052.7	2046.9	2052.7	2041.2
5°	2032.6	2032.6	2024.0	2029.7	2024.0	2026.8	2015.4	2018.2	2012.5	2018.2	2006.7
7.5°	1998.1	2001.0	1986.7	1992.4	1983.8	1983.8	1975.2	1978.0	1969.4	1972.3	1963.7
10°	1957.9	1955.1	1940.7	1946.5	1935.0	1935.0	1926.4	1926.4	1914.9	1917.8	1906.3
12.5°	1900.5	1897.7	1880.4	1886.2	1874.7	1874.7	1866.1	1866.1	1854.6	1860.3	1848.9
15°	1834.5	1831.6	1814.4	1817.3	1805.8	1805.8	1794.3	1797.2	1788.6	1794.3	1782.8
17.5°	1759.9	1757.0	1739.8	1742.6	1728.3	1731.1	1722.5	1719.7	1713.9	1716.8	1708.2
20°	1682.3	1676.6	1659.4	1662.2	1656.5	1647.9	1642.1	1645.0	1639.3	1645.0	1636.4
22.5°	1602.0	1590.5	1576.1	1576.1	1570.4	1570.4	1561.8	1567.5	1556.0	1564.6	1558.9
25°	1510.1	1501.5	1490.0	1495.7	1484.2	1484.2	1475.6	1478.5	1472.8	1478.5	1472.8
27.5°	1421.1	1415.3	1398.1	1403.9	1395.3	1398.1	1389.5	1392.4	1389.5	1395.3	1389.5
30°	1326.3	1323.5	1312.0	1312.0	1309.1	1306.3	1303.4	1303.4	1300.5	1309.1	1303.4
32.5°	1237.4	1228.7	1217.3	1225.9	1211.5	1220.1	1214.4	1220.1	1214.4	1220.1	1217.3
35°	1145.5	1142.6	1128.3	1131.1	1128.3	1128.3	1125.4	1125.4	1125.4	1134.0	1134.0
37.5°	1047.9	1045.0	1036.4	1039.3	1033.5	1030.6	1030.6	1036.4	1036.4	1042.1	1042.1
40°	953.1	956.0	947.4	947.4	944.5	944.5	944.5	950.3	947.4	953.1	950.3
42.5°	858.4	858.4	849.8	852.7	849.8	852.7	852.7	858.4	858.4	861.3	858.4
45°	769.4	769.4	766.5	769.4	763.7	766.5	763.7	769.4	766.5	769.4	769.4
47.5°	680.4	680.4	680.4	677.5	677.5	677.5	677.5	677.5	674.7	680.4	677.5
50°	597.1	600.0	597.1	597.1	594.3	597.1	594.3	594.3	588.5	591.4	591.4
52.5°	522.5	522.5	516.8	516.8	516.8	513.9	513.9	513.9	511.0	511.0	505.3
55°	450.7	450.7	445.0	445.0	442.1	439.2	436.4	436.4	427.8	427.8	419.1
57.5°	384.7	381.8	373.2	373.2	367.5	364.6	361.7	358.9	353.1	347.4	344.5
60°	324.4	318.7	312.9	310.1	304.3	298.6	292.8	287.1	281.3	278.5	275.6
62.5°	267.0	258.4	252.6	249.8	244.0	235.4	229.7	223.9	218.2	215.3	209.6
65°	215.3	206.7	198.1	195.2	189.5	183.7	175.1	169.4	163.6	160.8	160.8
67.5°	169.4	160.8	149.3	149.3	143.5	137.8	132.1	126.3	123.4	126.3	126.3
70°	126.3	120.6	112.0	109.1	103.4	97.6	94.7	94.7	94.7	97.6	94.7
72.5°	94.7	86.1	80.4	77.5	74.6	71.8	71.8	71.8	68.9	71.8	71.8
75°	66.0	60.3	54.5	54.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7
77.5°	45.9	40.2	37.3	37.3	37.3	34.5	34.5	34.5	34.5	34.5	34.5
80°	28.7	28.7	25.8	25.8	23.0	23.0	23.0	23.0	23.0	23.0	23.0
82.5°	17.2	17.2	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	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	2.9	2.9	2.9	2.9	2.9	5.7	5.7	5.7	5.7	5.7	5.7
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: P252523

CATALOG NUMBER: LD6B60D010TE EU6B60709024 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2041.2	2049.8	2038.3	2046.9	2044.1	2041.2	2035.5	2046.9
5°	2006.7	2009.6	1998.1	2009.6	2006.7	2001.0	1995.3	2006.7
7.5°	1957.9	1966.6	1952.2	1963.7	1960.8	1955.1	1949.3	1960.8
10°	1903.4	1912.0	1900.5	1909.1	1909.1	1903.4	1894.8	1906.3
12.5°	1843.1	1848.9	1837.4	1848.9	1846.0	1840.2	1837.4	1846.0
15°	1777.1	1785.7	1774.2	1782.8	1779.9	1777.1	1774.2	1782.8
17.5°	1705.3	1713.9	1705.3	1713.9	1713.9	1705.3	1702.4	1708.2
20°	1633.5	1639.3	1630.7	1639.3	1636.4	1636.4	1630.7	1639.3
22.5°	1553.1	1561.8	1556.0	1561.8	1558.9	1558.9	1556.0	1561.8
25°	1472.8	1481.4	1472.8	1481.4	1478.5	1478.5	1472.8	1487.1
27.5°	1392.4	1398.1	1389.5	1401.0	1398.1	1392.4	1395.3	1398.1
30°	1306.3	1312.0	1306.3	1314.9	1314.9	1314.9	1309.1	1314.9
32.5°	1220.1	1228.7	1220.1	1228.7	1225.9	1225.9	1223.0	1228.7
35°	1134.0	1136.9	1131.1	1139.7	1139.7	1142.6	1136.9	1145.5
37.5°	1045.0	1047.9	1045.0	1047.9	1053.6	1045.0	1050.7	1053.6
40°	953.1	958.9	956.0	958.9	958.9	961.7	958.9	961.7
42.5°	861.3	867.0	861.3	869.9	867.0	867.0	869.9	869.9
45°	766.5	775.1	769.4	775.1	778.0	775.1	775.1	780.9
47.5°	677.5	683.3	680.4	683.3	683.3	683.3	683.3	689.0
50°	588.5	591.4	591.4	594.3	594.3	597.1	591.4	594.3
52.5°	499.5	505.3	505.3	505.3	502.4	505.3	505.3	505.3
55°	419.1	422.0	416.3	422.0	422.0	419.1	419.1	424.9
57.5°	341.6	341.6	341.6	341.6	341.6	338.8	341.6	341.6
60°	269.9	272.7	269.9	269.9	269.9	269.9	267.0	272.7
62.5°	209.6	209.6	206.7	209.6	209.6	209.6	212.4	212.4
65°	163.6	166.5	163.6	166.5	166.5	166.5	166.5	169.4
67.5°	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2
70°	97.6	97.6	97.6	100.5	97.6	97.6	97.6	100.5
72.5°	71.8	71.8	71.8	71.8	71.8	71.8	74.6	74.6
75°	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
77.5°	34.5	34.5	34.5	37.3	34.5	37.3	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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	5.7	5.7	5.7	5.7	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)