

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P844440

Luminaire Tested: **LD6C40DE010B2750 EU6C40B27 6LBDWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40DE010B2750 EU6C40B27 6LBLDWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

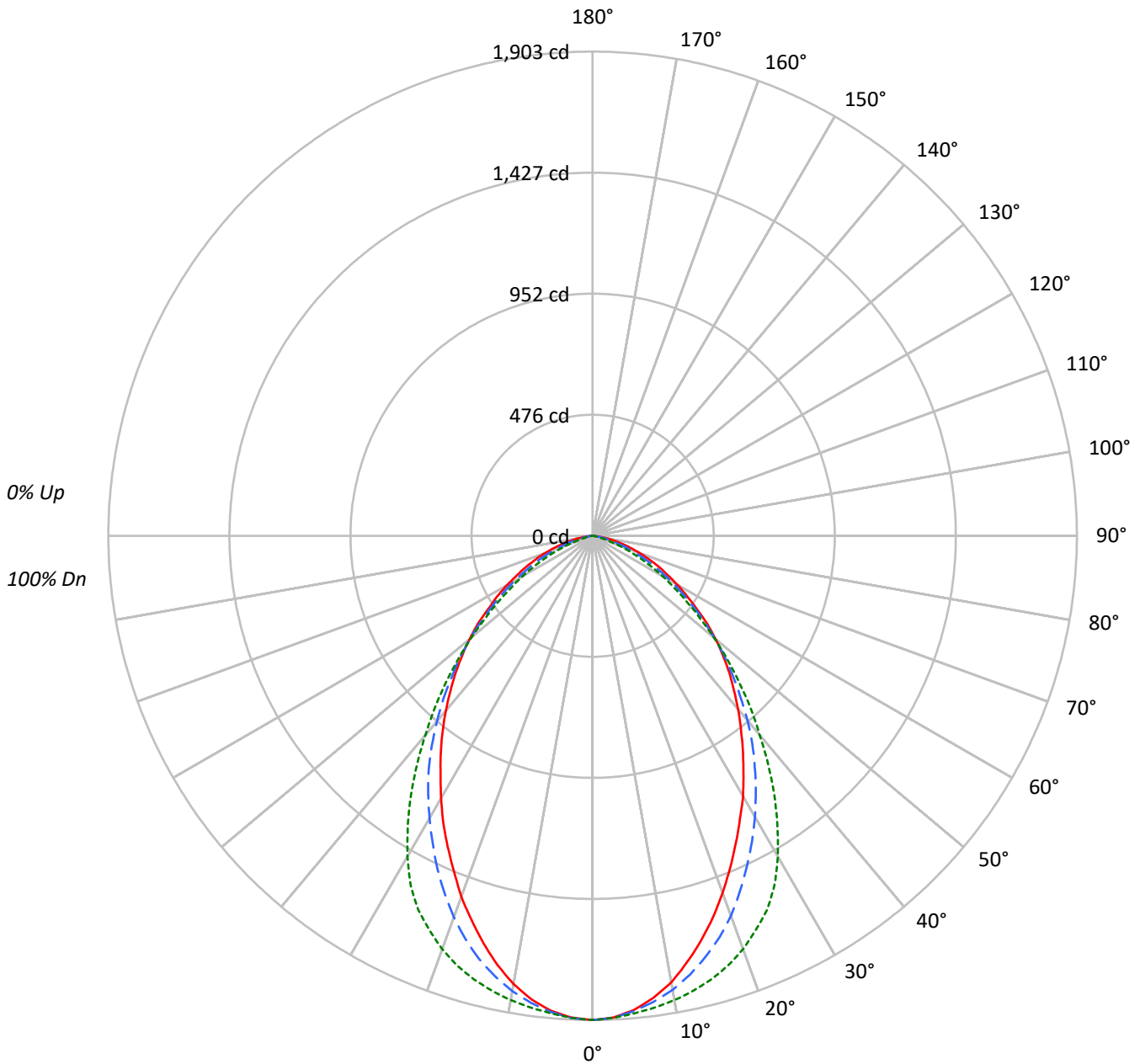
Lumens per Lamp: N/A
Luminaire Lumens: 3406.6 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.8
Input Voltage (V):
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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77			77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	104328	104328	104328
5°	102944	103681	103120
10°	99185	103149	99575
15°	93480	102418	94087
20°	87117	100832	88038
25°	80563	98129	81519
30°	74815	92115	75341
35°	68850	83306	69613
40°	63612	73073	64206
45°	58774	63154	58975
50°	53755	52945	53704
55°	47492	43248	47673
60°	41937	34690	42573
65°	36930	25800	37176
70°	31063	16189	31880
75°	24612	6863	25311
80°	16448	1610	17647
85°	6793	377	7988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	5.2
10°-20°	483.9	14.2
20°-30°	668.0	19.6
30°-40°	702.7	20.6
40°-50°	605.2	17.8
50°-60°	430.8	12.6
60°-70°	242.9	7.1
70°-80°	86.1	2.5
80°-90°	9.7	0.3
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°	1329.2	39.0
0°-40°	2031.9	59.6
0°-60°	3067.9	90.1
0°-90°	3406.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1903	1903	1903	1903	1903	
5°	1871	1875	1884	1879	1874	176
15°	1647	1714	1805	1723	1658	462
25°	1332	1434	1622	1443	1348	613
35°	1029	1111	1245	1123	1040	644
45°	758	780	815	781	761	584
55°	497	480	452	480	499	448
65°	285	244	199	246	287	282
75°	116	78	32	79	120	126
85°	11	5	1	5	13	18
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°	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1
2.5°	1894.9	1895.5	1895.5	1896.1	1895.5	1895.5	1896.1	1896.1	1895.5	1896.1	1896.1
5°	1870.7	1870.1	1870.7	1871.4	1873.3	1873.3	1872.6	1872.6	1874.5	1873.9	1875.2
7.5°	1831.3	1831.3	1833.2	1834.5	1834.5	1835.2	1836.5	1839.0	1841.6	1842.2	1846.6
10°	1781.8	1782.4	1781.8	1784.3	1786.2	1789.4	1788.8	1793.2	1797.7	1804.0	1812.3
12.5°	1716.3	1718.2	1722.0	1722.0	1727.8	1730.9	1730.3	1740.4	1748.7	1756.3	1766.6
15°	1647.1	1646.4	1649.6	1654.7	1660.4	1664.8	1666.7	1680.2	1688.4	1701.1	1713.8
17.5°	1572.7	1570.8	1575.9	1579.0	1588.6	1594.3	1598.1	1609.6	1622.9	1638.2	1655.3
20°	1493.3	1496.4	1497.7	1502.2	1514.8	1519.3	1525.7	1538.4	1551.8	1569.5	1589.2
22.5°	1411.9	1416.4	1418.9	1424.6	1434.8	1438.6	1445.0	1463.4	1478.0	1493.9	1512.3
25°	1331.9	1337.0	1341.4	1348.4	1355.4	1361.1	1369.4	1382.1	1398.6	1413.2	1434.2
27.5°	1253.7	1258.2	1259.4	1267.7	1275.9	1283.5	1288.0	1303.3	1317.3	1335.1	1355.4
30°	1181.9	1179.4	1182.5	1189.5	1199.0	1204.1	1211.8	1222.0	1237.2	1254.4	1275.3
32.5°	1103.1	1103.1	1108.2	1116.4	1124.1	1127.9	1130.4	1144.5	1159.7	1176.2	1193.3
35°	1028.8	1031.3	1035.7	1040.8	1049.1	1052.2	1058.1	1068.2	1080.3	1098.7	1111.4
37.5°	956.9	958.9	963.3	968.4	974.7	981.2	983.7	994.5	1003.4	1018.6	1030.7
40°	888.9	889.6	894.7	896.6	902.4	904.9	910.0	915.7	928.4	934.7	946.2
42.5°	820.4	823.6	825.5	829.9	830.6	835.6	838.2	840.1	850.2	854.0	860.4
45°	758.1	758.1	760.0	760.0	763.2	761.3	765.1	768.9	769.5	775.9	779.7
47.5°	693.3	691.4	693.9	693.3	692.6	692.6	693.9	694.5	696.5	700.9	702.8
50°	630.3	625.9	625.9	625.3	624.6	626.5	626.5	625.9	625.9	627.8	625.9
52.5°	566.2	564.9	561.7	559.2	557.9	557.9	557.9	555.4	555.4	554.1	549.7
55°	496.9	498.8	497.5	496.2	495.6	493.7	493.7	490.5	485.5	482.9	480.4
57.5°	437.2	439.8	439.8	437.2	434.1	432.8	429.6	427.6	423.2	418.7	413.6
60°	382.5	385.7	381.3	379.4	378.7	376.8	375.6	368.6	364.1	359.7	354.0
62.5°	330.4	331.7	328.5	326.6	324.7	322.8	322.2	316.4	308.8	303.1	296.1
65°	284.7	282.8	281.5	278.4	275.2	272.6	272.6	264.9	258.0	251.0	244.0
67.5°	237.0	238.3	236.4	233.8	228.8	226.2	222.4	217.3	211.0	204.0	195.8
70°	193.8	193.1	191.2	188.7	185.5	181.1	177.9	175.4	166.5	158.2	151.2
72.5°	154.4	153.8	151.9	148.7	144.3	142.4	139.8	133.5	126.5	119.5	111.8
75°	116.2	116.9	113.7	112.4	107.3	105.4	104.8	97.2	91.5	85.1	78.2
77.5°	83.2	83.2	80.1	77.5	75.0	73.7	71.2	66.7	62.3	55.9	50.2
80°	52.1	52.1	52.1	49.6	47.1	45.8	43.9	40.7	36.2	32.4	28.6
82.5°	27.9	27.9	26.7	26.0	24.7	23.5	22.8	21.6	18.4	16.5	14.0
85°	10.8	10.8	10.2	10.2	8.9	8.9	8.2	7.6	6.3	5.7	5.1
87.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1
2.5°	1896.8	1896.8	1896.1	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1897.4
5°	1876.5	1878.4	1879.0	1879.6	1880.9	1881.5	1882.2	1882.8	1883.4	1884.1	1884.1
7.5°	1850.4	1854.9	1858.1	1861.2	1862.5	1863.8	1865.7	1868.2	1870.1	1870.1	1869.5
10°	1819.2	1824.9	1831.3	1837.1	1839.0	1842.2	1845.4	1849.2	1852.3	1853.0	1853.0
12.5°	1778.6	1785.0	1796.4	1805.9	1809.7	1814.2	1820.5	1826.2	1829.4	1831.3	1830.7
15°	1727.8	1741.1	1757.0	1767.8	1772.9	1780.5	1790.7	1797.0	1802.1	1804.6	1803.4
17.5°	1672.4	1689.7	1706.8	1721.4	1728.4	1736.0	1750.0	1761.5	1769.1	1771.0	1769.7
20°	1609.6	1628.7	1647.1	1665.5	1675.0	1684.0	1698.6	1713.2	1725.8	1728.4	1726.5
22.5°	1534.6	1556.2	1578.4	1599.4	1610.2	1618.5	1639.4	1655.9	1670.5	1676.9	1672.4
25°	1457.1	1479.9	1503.4	1521.8	1534.0	1548.0	1567.0	1586.0	1603.9	1622.3	1605.8
27.5°	1374.5	1395.4	1420.2	1445.7	1457.1	1467.3	1486.9	1511.0	1529.5	1548.0	1529.5
30°	1291.9	1318.6	1340.8	1363.0	1375.8	1387.8	1407.5	1427.2	1445.0	1455.2	1443.7
32.5°	1214.4	1234.0	1256.3	1277.8	1286.7	1296.3	1312.8	1331.2	1348.4	1351.6	1343.9
35°	1133.0	1150.2	1168.6	1182.5	1193.3	1203.5	1218.2	1229.6	1234.0	1244.8	1237.2
37.5°	1040.8	1056.2	1072.7	1082.8	1092.3	1100.6	1111.4	1121.5	1125.3	1133.7	1127.9
40°	953.8	966.5	976.1	986.9	992.0	1000.2	1004.6	1012.9	1017.3	1021.1	1021.8
42.5°	869.9	876.9	883.9	891.5	893.4	895.3	906.2	911.9	916.3	918.9	915.1
45°	784.1	791.1	793.6	799.4	802.5	803.8	808.2	808.9	810.1	814.6	812.7
47.5°	706.0	706.6	708.5	711.0	712.3	712.3	714.9	712.3	713.6	714.2	715.5
50°	624.0	628.4	624.0	626.5	627.2	626.5	624.6	623.4	621.5	620.8	620.2
52.5°	546.5	547.1	544.6	542.7	540.8	541.4	536.3	533.8	534.4	530.6	535.1
55°	475.9	473.4	467.7	465.8	461.3	460.7	460.1	456.9	451.8	452.5	453.7
57.5°	407.9	403.5	397.8	394.6	393.3	388.3	387.6	382.5	379.4	378.7	378.7
60°	346.3	342.5	336.8	331.0	326.6	324.1	320.9	315.8	317.1	316.4	313.3
62.5°	287.9	283.4	275.2	268.7	266.2	264.3	259.9	256.1	254.1	256.1	254.1
65°	235.7	228.8	219.2	212.9	212.3	209.7	204.7	202.1	200.2	198.9	200.8
67.5°	187.4	177.9	172.2	163.9	160.1	158.9	151.9	148.1	148.7	148.1	148.7
70°	143.0	133.5	125.9	119.5	114.3	112.4	108.6	103.5	102.9	101.0	103.5
72.5°	103.5	95.3	88.3	81.3	76.9	74.4	69.3	64.2	62.9	61.7	61.7
75°	71.2	64.2	56.6	50.2	47.1	44.5	39.4	35.5	32.4	32.4	32.4
77.5°	44.5	38.7	33.0	28.6	26.7	24.1	19.7	15.9	14.6	12.7	13.3
80°	25.4	20.9	17.8	14.6	12.7	11.4	8.9	7.0	5.1	5.1	5.1
82.5°	12.1	10.2	7.6	6.3	5.7	4.4	3.2	2.5	1.9	1.3	1.3
85°	3.8	3.2	2.5	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1
2.5°	1896.8	1897.4	1896.8	1897.4	1896.8	1898.0	1898.0	1897.4	1897.4	1897.4	1896.8
5°	1883.4	1883.4	1882.8	1882.8	1882.8	1882.2	1880.3	1880.3	1879.0	1878.4	1877.1
7.5°	1868.8	1867.6	1865.7	1865.0	1863.1	1861.2	1857.4	1854.2	1851.7	1848.5	1845.4
10°	1851.1	1847.9	1844.1	1841.6	1840.3	1835.8	1830.0	1822.4	1817.3	1811.6	1805.3
12.5°	1828.1	1824.3	1817.3	1812.3	1809.1	1800.8	1792.6	1783.1	1772.9	1762.8	1756.3
15°	1798.3	1791.9	1783.1	1778.0	1772.3	1760.9	1746.2	1732.8	1722.7	1711.3	1696.0
17.5°	1763.4	1753.8	1741.7	1733.5	1726.5	1711.3	1694.1	1676.9	1661.6	1647.7	1632.5
20°	1715.1	1703.6	1689.0	1678.1	1671.2	1651.5	1633.1	1612.8	1594.3	1577.8	1560.0
22.5°	1658.5	1639.4	1624.8	1612.2	1604.5	1582.2	1561.9	1540.3	1520.6	1506.0	1486.9
25°	1587.3	1568.9	1550.5	1540.3	1528.3	1504.7	1483.8	1461.5	1443.0	1424.6	1406.9
27.5°	1511.7	1490.1	1469.8	1457.7	1446.9	1424.0	1403.1	1382.8	1361.7	1341.4	1325.5
30°	1429.1	1407.5	1391.6	1376.4	1364.2	1345.8	1319.8	1299.5	1281.0	1262.6	1246.1
32.5°	1337.0	1319.2	1300.1	1292.5	1283.5	1261.3	1241.0	1221.4	1202.8	1184.4	1167.3
35°	1230.2	1216.3	1204.8	1196.5	1190.8	1171.1	1155.3	1134.3	1122.8	1104.4	1091.7
37.5°	1120.9	1113.9	1106.3	1096.1	1087.9	1076.5	1066.9	1049.7	1036.4	1023.0	1009.1
40°	1016.1	1008.5	998.3	993.2	991.3	981.2	967.7	958.9	951.2	939.2	931.6
42.5°	913.8	910.0	899.8	897.2	894.7	885.8	879.4	871.8	866.7	857.8	854.0
45°	809.5	808.9	806.3	803.8	802.5	796.2	794.9	785.4	781.0	779.1	775.2
47.5°	717.4	715.5	711.7	715.5	709.8	709.1	709.1	707.2	705.3	700.3	699.6
50°	623.4	626.5	627.2	625.3	629.1	628.4	625.3	625.9	627.2	629.7	625.9
52.5°	537.0	539.5	543.9	542.0	545.2	548.4	547.1	552.2	550.3	552.8	557.9
55°	455.0	462.0	466.4	464.5	467.1	470.9	472.1	476.6	480.4	484.8	488.0
57.5°	384.4	386.4	392.7	394.6	395.2	398.4	404.8	411.7	416.2	419.4	422.5
60°	315.2	321.5	326.0	326.0	331.0	335.5	341.2	347.5	352.7	360.3	366.0
62.5°	256.7	258.0	264.3	264.9	268.7	276.5	280.9	290.4	296.8	305.0	312.6
65°	200.2	205.9	209.7	210.4	216.1	221.8	228.1	237.0	245.9	252.9	259.9
67.5°	150.0	153.1	158.2	162.7	163.9	172.2	181.7	190.0	197.7	204.0	212.9
70°	104.8	107.3	114.3	116.9	120.8	127.1	134.7	143.6	152.5	161.4	168.4
72.5°	64.2	69.9	74.4	78.2	81.3	88.9	97.2	104.8	112.4	120.1	129.0
75°	35.5	39.4	44.5	48.3	51.5	57.2	64.8	72.4	79.4	86.4	92.8
77.5°	15.9	19.7	24.1	26.7	29.2	34.3	40.1	46.4	52.1	57.2	62.9
80°	6.3	8.9	11.4	13.3	14.6	17.8	22.2	25.4	29.2	33.6	38.1
82.5°	2.5	3.2	4.4	5.7	6.3	8.2	10.2	12.1	15.2	17.1	19.7
85°	0.6	0.6	1.3	1.3	1.9	2.5	3.2	4.4	5.1	5.7	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.3
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: P844440

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1	1903.1
2.5°	1896.8	1896.1	1896.1	1896.1	1896.1	1895.5	1895.5	1895.5
5°	1877.7	1876.5	1875.8	1875.8	1873.9	1874.5	1874.5	1873.9
7.5°	1844.1	1842.8	1840.9	1842.2	1841.6	1839.6	1839.0	1838.4
10°	1800.2	1797.7	1797.0	1793.9	1791.9	1791.3	1791.3	1788.8
12.5°	1748.1	1741.1	1740.4	1737.3	1732.8	1730.3	1731.6	1727.8
15°	1690.3	1680.2	1675.0	1672.4	1667.4	1662.9	1659.1	1657.8
17.5°	1619.8	1608.3	1604.5	1602.0	1591.1	1590.5	1585.4	1583.5
20°	1546.0	1535.9	1530.2	1526.4	1518.0	1510.4	1509.8	1509.1
22.5°	1474.2	1457.7	1452.7	1446.9	1438.0	1431.6	1427.8	1424.6
25°	1392.9	1379.6	1370.7	1364.9	1358.5	1353.5	1348.4	1347.7
27.5°	1311.6	1298.9	1293.2	1288.0	1279.7	1274.0	1268.9	1271.5
30°	1232.1	1219.5	1213.1	1209.2	1200.9	1197.8	1188.9	1190.2
32.5°	1153.3	1141.9	1137.5	1129.8	1122.1	1118.3	1115.2	1112.6
35°	1077.7	1068.2	1061.9	1056.8	1049.7	1043.4	1040.2	1040.2
37.5°	1000.8	991.3	988.1	984.3	978.0	969.0	965.8	968.4
40°	922.7	915.7	912.5	910.0	903.6	900.5	897.2	897.2
42.5°	848.3	841.3	840.7	838.2	833.1	831.2	828.7	826.8
45°	770.8	767.6	765.1	765.1	764.5	763.8	761.9	760.7
47.5°	696.5	697.1	695.8	695.2	695.8	693.9	696.5	694.5
50°	628.4	627.2	628.4	627.2	627.8	630.3	627.8	629.7
52.5°	556.0	561.7	562.3	559.8	562.3	564.2	565.5	568.7
55°	491.8	493.7	495.0	497.5	498.8	502.6	498.8	498.8
57.5°	429.6	432.8	434.1	436.0	441.0	439.1	442.3	444.8
60°	373.0	376.8	379.4	381.3	383.2	387.6	388.9	388.3
62.5°	317.7	323.4	324.1	329.1	330.4	333.6	336.1	333.6
65°	266.2	271.3	275.2	278.4	282.2	285.3	284.7	286.6
67.5°	219.2	225.6	228.8	230.0	235.1	236.4	239.6	241.5
70°	176.6	181.1	184.9	186.8	190.0	193.8	197.0	198.9
72.5°	134.7	141.7	145.5	146.8	151.9	154.4	155.7	157.6
75°	99.7	105.4	107.3	110.5	113.1	118.9	118.2	119.5
77.5°	69.3	73.1	76.9	76.9	81.3	82.6	85.8	86.4
80°	41.4	45.8	47.7	48.3	51.5	53.4	54.7	55.9
82.5°	21.6	24.7	24.7	26.0	28.6	28.6	29.2	30.5
85°	8.2	9.5	10.2	10.2	10.8	12.1	12.1	12.7
87.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9
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)