

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: P844491

Luminaire Tested: **LD6C40DE010B2750 EU6C40B40 6LBDWWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844491
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 EU6C40B40 6LBLDWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

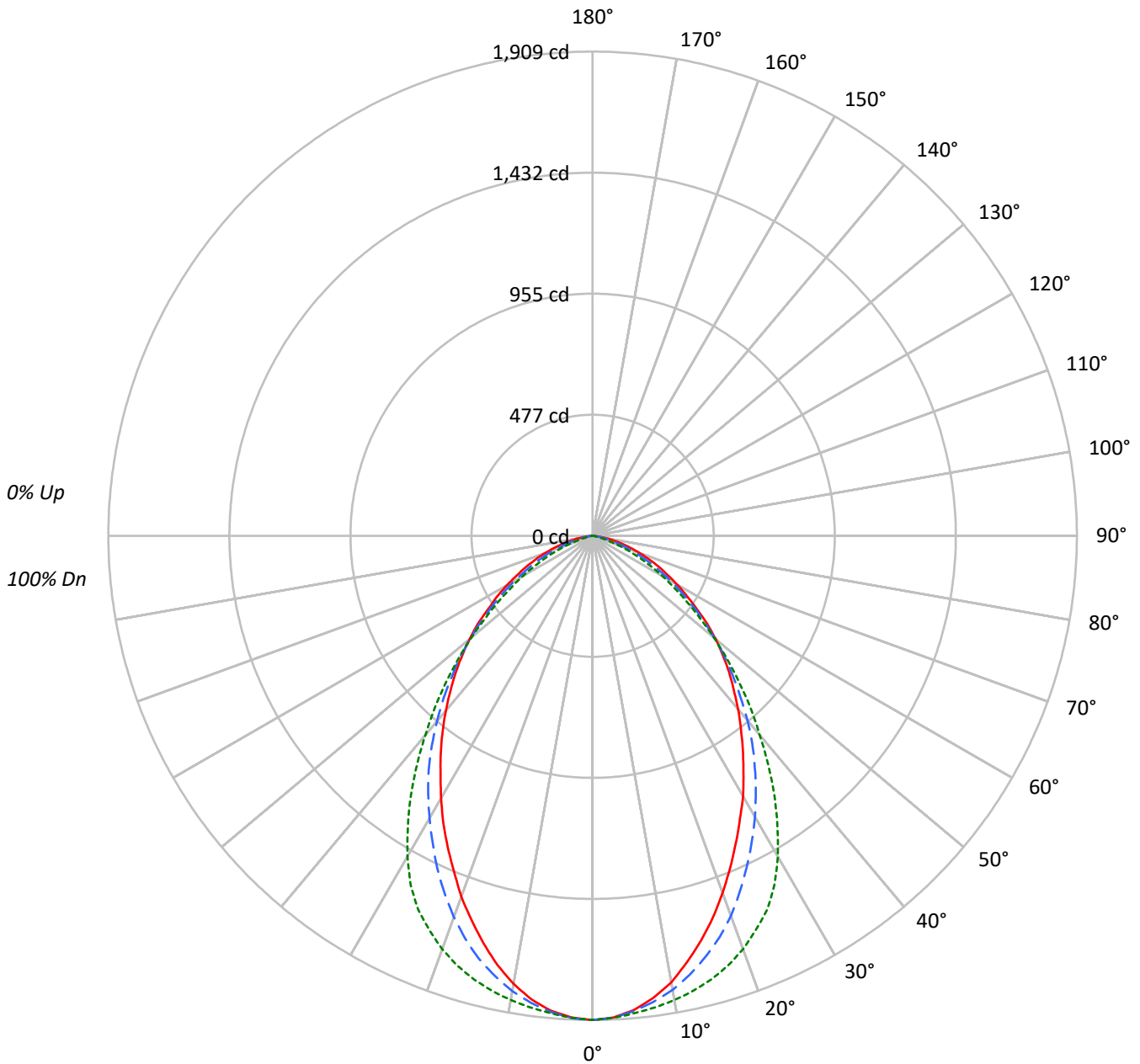
Lumens per Lamp: N/A
Luminaire Lumens: 3417.2 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P844491

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLDWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P844491

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLDWWLI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	104652	104652	104652
5°	103268	104000	103439
10°	99492	103466	99881
15°	93763	102736	94382
20°	87385	101147	88319
25°	80811	98431	81779
30°	75050	92394	75575
35°	69058	83560	69834
40°	63812	73302	64406
45°	58952	63348	59153
50°	53934	53107	53875
55°	47645	43372	47826
60°	42069	34800	42694
65°	37047	25878	37293
70°	31159	16237	31977
75°	24718	6884	25375
80°	16479	1610	17711
85°	6793	377	8051



TEST NUMBER: P844491

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLDWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	5.2
10°-20°	485.4	14.2
20°-30°	670.1	19.6
30°-40°	704.9	20.6
40°-50°	607.0	17.8
50°-60°	432.2	12.6
60°-70°	243.7	7.1
70°-80°	86.4	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°	1333.3	39.0
0°-40°	2038.2	59.6
0°-60°	3077.5	90.1
0°-90°	3417.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1909	1909	1909	1909	1909	
5°	1877	1881	1890	1885	1880	176
15°	1652	1719	1810	1728	1663	463
25°	1336	1439	1627	1448	1352	615
35°	1032	1115	1249	1126	1044	646
45°	760	782	817	783	763	586
55°	498	482	454	482	500	449
65°	286	245	200	247	288	283
75°	117	78	32	80	120	126
85°	11	5	1	5	13	18
90°	0	0	0	0	0	



TEST NUMBER: P844491

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLDWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1900.8	1901.4	1901.4	1902.0	1901.4	1901.4	1902.0	1902.0	1901.4	1902.0	1902.0
5°	1876.6	1875.9	1876.6	1877.2	1879.1	1879.1	1878.5	1878.5	1880.4	1879.7	1881.0
7.5°	1837.0	1837.0	1838.9	1840.2	1840.2	1840.8	1842.1	1844.7	1847.3	1847.9	1852.3
10°	1787.3	1787.9	1787.3	1789.8	1791.7	1794.9	1794.3	1798.8	1803.3	1809.6	1817.9
12.5°	1721.6	1723.5	1727.4	1727.4	1733.1	1736.3	1735.7	1745.8	1754.2	1761.8	1772.0
15°	1652.1	1651.5	1654.8	1659.9	1665.6	1670.0	1671.9	1685.3	1693.6	1706.4	1719.1
17.5°	1577.6	1575.7	1580.7	1584.0	1593.5	1599.2	1603.1	1614.6	1627.9	1643.2	1660.5
20°	1497.9	1501.1	1502.4	1506.8	1519.6	1524.1	1530.4	1543.2	1556.5	1574.4	1594.2
22.5°	1416.4	1420.8	1423.4	1429.1	1439.2	1443.1	1449.5	1468.0	1482.6	1498.6	1517.1
25°	1336.0	1341.1	1345.6	1352.6	1359.6	1365.3	1373.7	1386.3	1403.0	1417.7	1438.6
27.5°	1257.6	1262.1	1263.3	1271.6	1279.9	1287.6	1292.0	1307.3	1321.4	1339.2	1359.6
30°	1185.6	1183.1	1186.2	1193.2	1202.8	1207.9	1215.5	1225.8	1241.0	1258.3	1279.3
32.5°	1106.6	1106.6	1111.7	1119.9	1127.5	1131.5	1134.0	1148.0	1163.3	1179.9	1197.0
35°	1031.9	1034.5	1039.0	1044.1	1052.3	1055.5	1061.3	1071.5	1083.7	1102.1	1114.9
37.5°	959.9	961.8	966.4	971.4	977.8	984.1	986.7	997.6	1006.4	1021.8	1033.8
40°	891.7	892.4	897.5	899.4	905.1	907.7	912.7	918.6	931.2	937.6	949.1
42.5°	822.9	826.1	828.0	832.5	833.1	838.2	840.7	842.6	852.9	856.7	863.0
45°	760.4	760.4	762.3	762.3	765.5	763.6	767.4	771.2	771.9	778.3	782.1
47.5°	695.4	693.5	696.0	695.4	694.8	694.8	696.0	696.7	698.6	703.1	705.0
50°	632.4	627.8	627.8	627.2	626.5	628.4	628.4	627.8	627.8	629.7	627.8
52.5°	567.9	566.7	563.5	561.0	559.7	559.7	559.7	557.1	557.1	555.8	551.3
55°	498.5	500.4	499.1	497.8	497.2	495.3	495.3	492.1	486.9	484.4	481.9
57.5°	438.5	441.1	441.1	438.5	435.3	434.1	430.9	429.0	424.5	420.1	414.9
60°	383.7	386.9	382.4	380.5	379.9	378.0	376.7	369.7	365.2	360.8	355.0
62.5°	331.5	332.7	329.6	327.7	325.8	323.8	323.2	317.4	309.8	304.1	297.0
65°	285.6	283.7	282.4	279.2	276.0	273.4	273.4	265.8	258.8	251.8	244.7
67.5°	237.8	239.0	237.1	234.6	229.5	227.0	223.1	218.0	211.6	204.7	196.3
70°	194.4	193.8	191.9	189.3	186.1	181.7	178.5	175.9	167.0	158.8	151.7
72.5°	154.9	154.2	152.3	149.1	144.7	142.8	140.2	133.9	126.8	119.8	112.2
75°	116.7	117.3	114.1	112.8	107.8	105.8	105.1	97.5	91.8	85.5	78.4
77.5°	83.6	83.6	80.3	77.7	75.2	73.9	71.4	66.9	62.5	56.1	50.3
80°	52.2	52.2	52.2	49.7	47.2	45.9	44.0	40.8	36.4	32.5	28.7
82.5°	28.0	28.0	26.8	26.1	24.9	23.6	23.0	21.7	18.5	16.6	14.1
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



TEST NUMBER: P844491

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLDWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1902.7	1902.7	1902.0	1902.7	1902.7	1902.7	1902.7	1902.7	1902.7	1902.7	1903.3
5°	1882.3	1884.2	1884.8	1885.4	1886.7	1887.3	1888.0	1888.6	1889.3	1889.9	1889.9
7.5°	1856.1	1860.6	1863.8	1866.9	1868.3	1869.6	1871.5	1874.0	1875.9	1875.9	1875.3
10°	1824.9	1830.7	1837.0	1842.7	1844.7	1847.9	1851.1	1854.9	1858.1	1858.7	1858.7
12.5°	1784.1	1790.5	1802.0	1811.5	1815.3	1819.8	1826.2	1831.9	1835.1	1837.0	1836.4
15°	1733.1	1746.5	1762.4	1773.3	1778.4	1786.0	1796.3	1802.6	1807.7	1810.2	1809.0
17.5°	1677.7	1694.9	1712.1	1726.8	1733.8	1741.4	1755.5	1766.9	1774.6	1776.5	1775.2
20°	1614.6	1633.7	1652.1	1670.6	1680.3	1689.1	1703.8	1718.4	1731.2	1733.8	1731.9
22.5°	1539.4	1561.1	1583.4	1604.3	1615.2	1623.5	1644.5	1661.1	1675.7	1682.2	1677.7
25°	1461.5	1484.5	1508.1	1526.6	1538.8	1552.7	1571.9	1591.0	1608.9	1627.3	1610.8
27.5°	1378.7	1399.8	1424.6	1450.1	1461.5	1471.8	1491.6	1515.8	1534.2	1552.7	1534.2
30°	1295.8	1322.7	1345.0	1367.2	1380.0	1392.2	1411.8	1431.6	1449.5	1459.6	1448.2
32.5°	1218.1	1237.9	1260.2	1281.9	1290.7	1300.4	1316.9	1335.4	1352.6	1355.8	1348.2
35°	1136.5	1153.7	1172.2	1186.2	1197.0	1207.3	1221.9	1233.4	1237.9	1248.6	1241.0
37.5°	1044.1	1059.4	1075.9	1086.2	1095.7	1104.0	1114.9	1125.0	1128.8	1137.2	1131.5
40°	956.7	969.5	979.1	989.9	995.0	1003.3	1007.7	1016.1	1020.5	1024.3	1025.0
42.5°	872.7	879.6	886.6	894.3	896.2	898.1	908.9	914.6	919.2	921.7	917.9
45°	786.6	793.5	796.1	801.9	805.1	806.3	810.8	811.4	812.7	817.1	815.2
47.5°	708.2	708.8	710.7	713.3	714.5	714.5	717.1	714.5	715.8	716.4	717.7
50°	625.9	630.3	625.9	628.4	629.1	628.4	626.5	625.3	623.4	622.7	622.1
52.5°	548.2	548.8	546.3	544.4	542.5	543.1	538.0	535.5	536.1	532.2	536.7
55°	477.4	474.9	469.2	467.3	462.7	462.1	461.4	458.3	453.2	453.8	455.1
57.5°	409.2	404.8	399.0	395.9	394.6	389.4	388.8	383.7	380.5	379.9	379.9
60°	347.4	343.5	337.8	332.1	327.7	325.1	321.9	316.8	318.0	317.4	314.2
62.5°	288.7	284.3	276.0	269.6	267.1	265.1	260.7	256.9	255.0	256.9	255.0
65°	236.5	229.5	219.9	213.5	212.9	210.4	205.3	202.7	200.7	199.5	201.4
67.5°	188.0	178.5	172.7	164.5	160.7	159.4	152.3	148.5	149.1	148.5	149.1
70°	143.4	133.9	126.2	119.8	114.8	112.8	109.0	103.9	103.2	101.3	103.9
72.5°	103.9	95.6	88.6	81.5	77.1	74.6	69.5	64.4	63.1	61.9	61.9
75°	71.4	64.4	56.7	50.3	47.2	44.6	39.6	35.7	32.5	32.5	32.5
77.5°	44.6	38.9	33.1	28.7	26.8	24.2	19.8	16.0	14.7	12.8	13.4
80°	25.5	21.0	17.9	14.7	12.8	11.4	8.9	7.0	5.1	5.1	5.1
82.5°	12.2	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



TEST NUMBER: P844491

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLDWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1902.7	1903.3	1902.7	1903.3	1902.7	1904.0	1904.0	1903.3	1903.3	1903.3	1902.7
5°	1889.3	1889.3	1888.6	1888.6	1888.6	1888.0	1886.1	1886.1	1884.8	1884.2	1882.9
7.5°	1874.7	1873.4	1871.5	1870.8	1868.9	1866.9	1863.1	1860.0	1857.4	1854.2	1851.1
10°	1856.8	1853.6	1849.8	1847.3	1846.0	1841.4	1835.7	1828.1	1823.0	1817.2	1810.9
12.5°	1833.8	1830.0	1823.0	1817.9	1814.7	1806.4	1798.2	1788.6	1778.4	1768.2	1761.8
15°	1803.9	1797.6	1788.6	1783.5	1777.8	1766.2	1751.7	1738.2	1728.1	1716.5	1701.3
17.5°	1768.8	1759.3	1747.1	1738.9	1731.9	1716.5	1699.3	1682.2	1666.8	1652.8	1637.5
20°	1720.3	1708.9	1694.2	1683.4	1676.3	1656.7	1638.2	1617.8	1599.2	1582.7	1564.9
22.5°	1663.7	1644.5	1629.9	1617.1	1609.5	1587.2	1566.8	1545.1	1525.3	1510.6	1491.6
25°	1592.3	1573.8	1555.3	1545.1	1532.9	1509.3	1488.4	1466.1	1447.6	1429.1	1411.2
27.5°	1516.4	1494.8	1474.3	1462.2	1451.4	1428.4	1407.4	1387.0	1365.9	1345.6	1329.7
30°	1433.5	1411.8	1396.0	1380.6	1368.6	1350.1	1323.9	1303.5	1285.0	1266.5	1250.0
32.5°	1341.1	1323.3	1304.2	1296.4	1287.6	1265.2	1244.8	1225.1	1206.7	1188.1	1170.9
35°	1234.0	1220.0	1208.6	1200.2	1194.5	1174.7	1158.8	1137.8	1126.3	1107.9	1095.1
37.5°	1124.4	1117.4	1109.8	1099.5	1091.3	1079.7	1070.2	1053.0	1039.7	1026.2	1012.3
40°	1019.2	1011.6	1001.4	996.3	994.4	984.1	970.8	961.8	954.2	942.1	934.4
42.5°	916.7	912.7	902.6	900.0	897.5	888.5	882.2	874.6	869.5	860.5	856.7
45°	812.1	811.4	808.9	806.3	805.1	798.7	797.5	787.8	783.4	781.5	777.7
47.5°	719.6	717.7	713.9	717.7	712.0	711.4	711.4	709.5	707.6	702.5	701.7
50°	625.3	628.4	629.1	627.2	631.1	630.3	627.2	627.8	629.1	631.7	627.8
52.5°	538.7	541.2	545.6	543.7	546.9	550.1	548.8	553.9	552.0	554.5	559.7
55°	456.4	463.3	467.9	466.0	468.5	472.3	473.6	478.1	481.9	486.3	489.6
57.5°	385.6	387.5	394.0	395.9	396.5	399.7	406.0	413.0	417.6	420.7	423.9
60°	316.1	322.6	327.0	327.0	332.1	336.5	342.3	348.7	353.8	361.4	367.1
62.5°	257.5	258.8	265.1	265.8	269.6	277.3	281.8	291.3	297.7	306.0	313.6
65°	200.7	206.6	210.4	211.0	216.7	222.4	228.9	237.8	246.6	253.7	260.7
67.5°	150.4	153.6	158.8	163.2	164.5	172.7	182.3	190.6	198.2	204.7	213.5
70°	105.1	107.8	114.8	117.3	121.1	127.4	135.2	144.0	152.9	161.9	168.9
72.5°	64.4	70.1	74.6	78.4	81.5	89.3	97.5	105.1	112.8	120.5	129.3
75°	35.7	39.6	44.6	48.4	51.6	57.3	65.0	72.7	79.6	86.7	93.1
77.5°	16.0	19.8	24.2	26.8	29.3	34.4	40.2	46.5	52.2	57.3	63.1
80°	6.3	8.9	11.4	13.4	14.7	17.9	22.3	25.5	29.3	33.7	38.3
82.5°	2.5	3.2	4.4	5.7	6.3	8.2	10.2	12.2	15.3	17.2	19.8
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: P844491

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1902.7	1902.0	1902.0	1902.0	1902.0	1901.4	1901.4	1901.4
5°	1883.5	1882.3	1881.6	1881.6	1879.7	1880.4	1880.4	1879.7
7.5°	1849.8	1848.5	1846.6	1847.9	1847.3	1845.4	1844.7	1844.1
10°	1805.8	1803.3	1802.6	1799.5	1797.6	1796.9	1796.9	1794.3
12.5°	1753.6	1746.5	1745.8	1742.7	1738.2	1735.7	1737.0	1733.1
15°	1695.5	1685.3	1680.3	1677.7	1672.5	1668.1	1664.3	1663.0
17.5°	1624.7	1613.3	1609.5	1607.0	1596.1	1595.4	1590.4	1588.5
20°	1550.8	1540.7	1534.9	1531.0	1522.8	1515.2	1514.5	1513.9
22.5°	1478.8	1462.2	1457.1	1451.4	1442.5	1436.1	1432.2	1429.1
25°	1397.2	1383.8	1374.9	1369.2	1362.8	1357.7	1352.6	1352.0
27.5°	1315.6	1302.9	1297.2	1292.0	1283.8	1278.0	1273.0	1275.5
30°	1236.0	1223.2	1216.8	1213.0	1204.8	1201.6	1192.6	1193.9
32.5°	1156.9	1145.4	1141.0	1133.4	1125.6	1121.8	1118.7	1116.1
35°	1081.0	1071.5	1065.1	1060.1	1053.0	1046.6	1043.5	1043.5
37.5°	1003.9	994.4	991.2	987.4	981.0	972.1	968.9	971.4
40°	925.5	918.6	915.3	912.7	906.4	903.2	900.0	900.0
42.5°	851.0	843.9	843.3	840.7	835.6	833.7	831.2	829.3
45°	773.1	770.0	767.4	767.4	766.8	766.1	764.2	763.0
47.5°	698.6	699.2	697.9	697.3	697.9	696.0	698.6	696.7
50°	630.3	629.1	630.3	629.1	629.7	632.4	629.7	631.7
52.5°	557.7	563.5	564.1	561.6	564.1	566.0	567.3	570.5
55°	493.4	495.3	496.6	499.1	500.4	504.2	500.4	500.4
57.5°	430.9	434.1	435.3	437.2	442.4	440.5	443.7	446.2
60°	374.2	378.0	380.5	382.4	384.3	388.8	390.1	389.4
62.5°	318.7	324.5	325.1	330.2	331.5	334.6	337.2	334.6
65°	267.1	272.1	276.0	279.2	283.0	286.2	285.6	287.5
67.5°	219.9	226.3	229.5	230.8	235.9	237.1	240.3	242.2
70°	177.2	181.7	185.5	187.4	190.6	194.4	197.6	199.5
72.5°	135.2	142.1	146.0	147.2	152.3	154.9	156.2	158.1
75°	100.1	105.8	107.8	110.9	113.5	119.2	118.6	119.8
77.5°	69.5	73.3	77.1	77.1	81.5	82.8	86.1	86.7
80°	41.5	45.9	47.8	48.4	51.6	53.5	54.8	56.1
82.5°	21.7	24.9	24.9	26.1	28.7	28.7	29.3	30.6
85°	8.2	9.5	10.2	10.2	10.8	12.2	12.2	12.8
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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)