

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: P844493

Luminaire Tested: **LD6C40DE010B2750 EU6C40B40 6LBLWWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C40DE010B2750 EU6C40B40 6LBLWWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

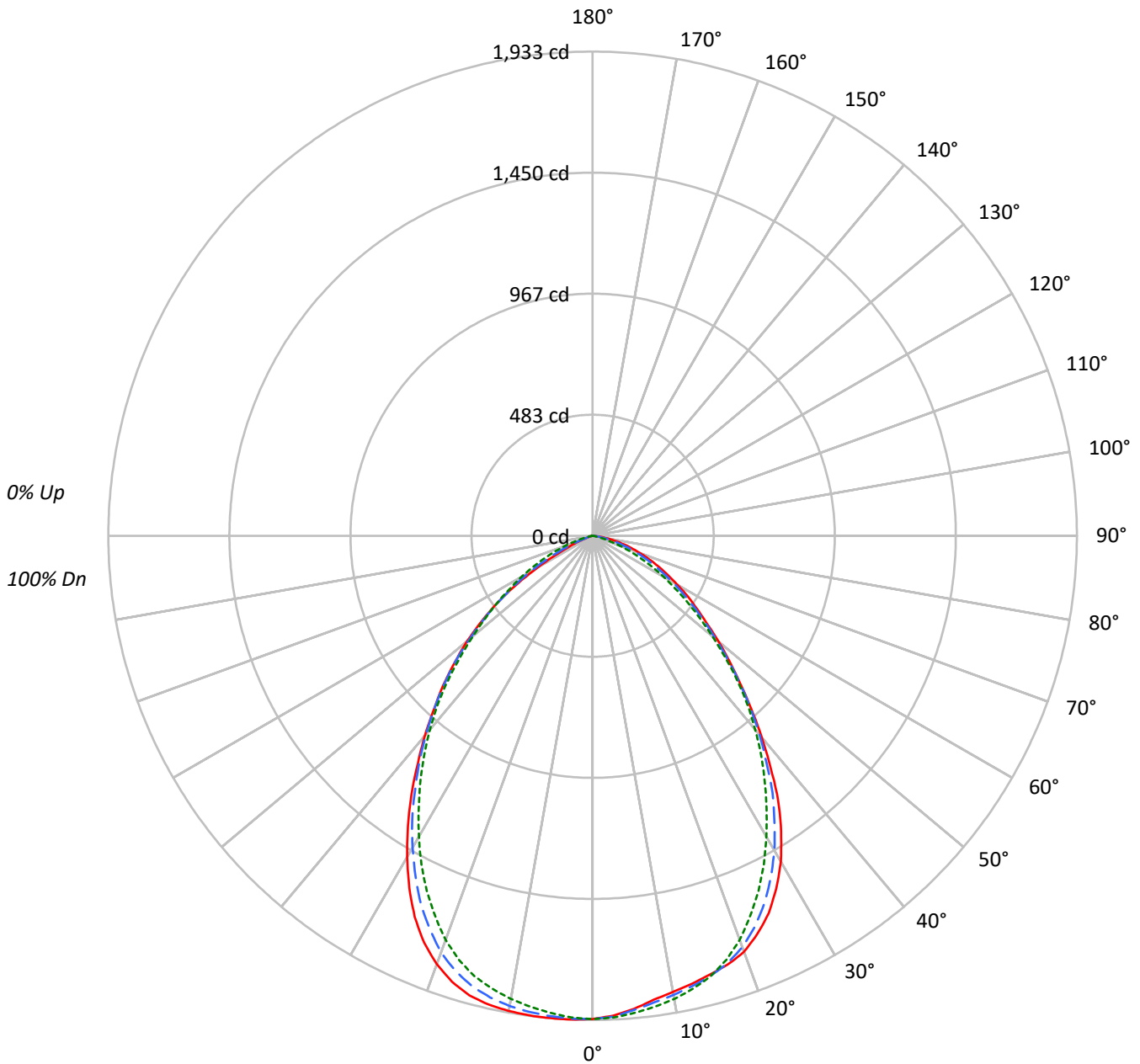
Lumens per Lamp: N/A  
Luminaire Lumens: 3548.3 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78			78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61			61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54			54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49			49
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44			44
8	67	55	48	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	105765	105765	105765
5°	104314	105228	106383
10°	102932	104524	107224
15°	102884	103315	107799
20°	103113	100138	106164
25°	100584	94687	101589
30°	95103	87798	93692
35°	86465	80194	84377
40°	75169	72207	74482
45°	64441	63301	65325
50°	55879	53056	55717
55°	48486	44099	43860
60°	42694	35721	27750
65°	37449	27124	13309
70°	32169	17984	4905
75°	26180	7540	1334
80°	17711	1799	600
85°	7170	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.7	5.1
10°-20°	517.6	14.6
20°-30°	741.8	20.9
30°-40°	773.0	21.8
40°-50°	640.4	18.0
50°-60°	424.5	12.0
60°-70°	205.6	5.8
70°-80°	58.2	1.6
80°-90°	5.6	0.2
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°	1441.0	40.6
0°-40°	2214.0	62.4
0°-60°	3278.9	92.4
0°-90°	3548.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1929	1929	1929	1929	1929	
5°	1896	1901	1912	1926	1933	179
15°	1813	1819	1820	1861	1899	512
25°	1663	1621	1565	1623	1680	761
35°	1292	1251	1198	1235	1261	801
45°	831	829	816	837	843	647
55°	507	491	461	453	459	458
65°	289	261	209	143	103	288
75°	124	94	36	7	6	133
85°	11	5	1	1	1	19
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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1917.3	1917.9	1919.2	1917.9	1918.5	1919.2	1919.2	1919.8	1919.8	1920.5	1921.1
5°	1895.6	1897.5	1897.5	1897.5	1897.5	1898.1	1898.8	1898.8	1898.1	1898.1	1900.7
7.5°	1868.2	1870.1	1869.5	1870.1	1870.7	1872.6	1872.0	1873.3	1874.5	1876.5	1879.0
10°	1849.1	1849.7	1849.1	1851.0	1852.2	1853.5	1853.5	1854.8	1856.0	1857.9	1861.2
12.5°	1831.8	1832.5	1833.1	1834.4	1835.7	1835.1	1836.4	1837.6	1838.3	1839.5	1841.4
15°	1812.8	1816.0	1815.3	1816.0	1816.6	1817.2	1817.9	1818.5	1817.9	1817.9	1819.1
17.5°	1794.9	1795.5	1796.2	1796.2	1796.2	1796.2	1794.9	1794.9	1793.0	1791.1	1789.8
20°	1767.5	1766.9	1765.6	1765.6	1763.1	1763.7	1761.1	1759.8	1756.6	1752.2	1747.7
22.5°	1719.7	1722.9	1721.6	1717.2	1714.6	1714.6	1712.0	1706.3	1701.2	1696.1	1690.3
25°	1662.9	1661.6	1659.7	1657.2	1653.4	1650.9	1647.1	1643.2	1634.9	1626.0	1620.9
27.5°	1587.1	1589.0	1584.5	1580.7	1578.8	1575.0	1571.2	1566.0	1555.9	1548.3	1539.3
30°	1502.4	1501.1	1500.5	1495.3	1490.2	1491.5	1483.9	1478.1	1470.4	1457.7	1450.7
32.5°	1400.3	1402.2	1398.4	1397.8	1388.2	1387.0	1387.0	1378.0	1371.6	1359.6	1350.0
35°	1292.0	1290.7	1289.5	1285.0	1284.4	1280.5	1277.3	1271.0	1262.7	1258.8	1251.2
37.5°	1167.1	1167.7	1168.4	1168.4	1165.8	1163.3	1160.6	1160.6	1149.2	1147.3	1138.3
40°	1050.4	1052.3	1051.7	1047.3	1047.9	1048.5	1047.9	1047.3	1040.2	1037.6	1036.4
42.5°	937.0	940.1	937.0	936.3	937.0	937.0	935.7	937.6	934.4	937.0	931.2
45°	831.2	833.7	831.8	831.2	829.9	833.1	829.3	832.5	830.6	827.4	828.7
47.5°	740.0	737.5	740.0	738.8	736.9	734.3	738.1	736.2	731.8	731.0	732.4
50°	655.2	653.9	655.2	654.6	651.4	651.4	650.8	649.5	648.2	644.4	641.9
52.5°	574.3	578.7	575.6	578.7	574.3	572.4	573.0	571.1	568.6	567.3	562.1
55°	507.3	508.0	508.0	508.0	505.4	504.2	502.9	501.6	501.6	495.9	490.7
57.5°	449.4	448.1	447.5	445.6	444.3	442.9	441.7	437.9	434.1	429.0	425.2
60°	389.4	390.7	390.7	388.2	386.2	384.3	383.7	381.2	376.7	371.5	365.8
62.5°	337.8	339.1	335.9	335.9	332.1	331.5	331.5	327.7	322.5	316.8	310.4
65°	288.7	288.1	289.4	284.9	285.6	281.8	280.5	278.6	273.4	266.4	260.7
67.5°	242.2	243.5	241.6	240.3	237.8	236.5	235.2	229.5	226.9	220.5	214.2
70°	200.7	199.5	198.2	198.2	195.7	193.8	193.1	186.8	183.6	178.4	171.4
72.5°	161.9	160.7	159.4	157.5	155.5	154.8	151.0	147.2	143.4	137.1	132.0
75°	123.6	123.0	121.7	120.5	117.3	116.0	115.4	110.9	103.9	98.8	94.3
77.5°	89.3	89.9	87.4	84.8	82.8	80.9	79.6	75.8	71.4	65.7	61.2
80°	56.1	56.7	56.1	54.2	51.6	51.0	49.1	46.5	42.7	38.9	35.6
82.5°	29.9	29.9	29.3	28.7	26.8	26.8	25.5	23.6	21.7	19.8	17.2
85°	11.4	11.4	10.8	10.2	9.5	9.5	8.9	8.2	7.0	6.3	5.1
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1921.1	1921.7	1922.4	1923.0	1923.0	1923.0	1923.6	1924.3	1924.3	1924.9	1925.5
5°	1901.9	1902.6	1904.5	1905.1	1906.5	1905.8	1907.8	1909.7	1910.9	1912.2	1914.1
7.5°	1880.3	1882.2	1884.8	1886.7	1887.3	1888.0	1889.9	1892.4	1894.3	1896.9	1898.8
10°	1862.5	1864.4	1866.9	1869.5	1869.5	1870.7	1872.0	1873.9	1875.8	1877.7	1880.3
12.5°	1842.7	1845.3	1845.9	1847.2	1847.2	1847.8	1849.1	1849.7	1851.6	1852.2	1856.0
15°	1819.1	1819.1	1819.1	1819.1	1819.1	1818.5	1817.2	1818.5	1818.5	1820.4	1822.3
17.5°	1786.7	1786.7	1782.7	1780.8	1781.5	1778.3	1777.7	1775.1	1775.1	1775.1	1777.0
20°	1743.9	1738.1	1733.7	1728.0	1725.4	1724.2	1722.9	1717.2	1716.5	1716.5	1716.5
22.5°	1683.3	1677.0	1670.6	1666.1	1659.1	1656.6	1654.0	1650.2	1645.8	1643.2	1649.0
25°	1609.4	1601.8	1594.1	1585.2	1583.3	1580.1	1573.8	1569.8	1567.9	1565.4	1566.7
27.5°	1531.0	1520.1	1511.9	1503.0	1499.8	1495.9	1490.2	1484.5	1478.1	1479.4	1479.4
30°	1441.1	1428.4	1419.5	1408.7	1408.0	1404.2	1399.0	1392.1	1387.0	1387.0	1390.2
32.5°	1343.6	1334.7	1326.4	1314.3	1312.4	1309.9	1306.0	1299.6	1295.8	1292.0	1294.5
35°	1244.8	1230.8	1225.1	1217.4	1218.1	1211.1	1205.3	1201.5	1202.1	1198.3	1200.2
37.5°	1138.3	1130.1	1121.8	1118.7	1115.5	1111.6	1109.0	1106.5	1105.2	1105.2	1104.0
40°	1030.7	1026.2	1022.4	1021.1	1015.3	1016.6	1016.0	1014.1	1010.3	1009.0	1012.8
42.5°	929.3	924.9	922.9	919.7	919.1	917.2	917.2	915.3	914.6	915.3	914.6
45°	824.7	824.1	819.7	819.7	822.2	820.3	815.2	818.4	818.4	816.5	820.3
47.5°	728.5	729.1	726.6	721.5	721.5	718.3	714.5	717.7	719.6	716.4	718.3
50°	641.2	637.4	632.3	628.4	630.3	629.1	625.9	623.4	621.5	622.1	624.6
52.5°	558.3	556.4	550.7	546.3	545.0	545.6	541.8	537.9	538.5	537.9	536.6
55°	483.8	483.8	476.1	474.2	469.2	469.2	464.0	463.3	461.4	461.4	458.3
57.5°	419.4	413.6	409.2	404.8	402.9	400.3	398.4	393.9	392.0	388.2	387.5
60°	360.1	353.1	350.0	344.8	341.0	338.4	335.3	331.5	328.9	325.8	321.8
62.5°	307.2	299.5	293.2	288.1	284.9	284.3	279.2	274.7	269.6	265.8	259.4
65°	254.4	249.8	242.8	235.9	234.6	231.4	226.2	221.2	214.8	209.1	205.3
67.5°	207.8	202.0	195.7	191.9	187.4	184.9	179.1	171.4	164.5	158.8	151.7
70°	166.4	158.1	152.3	146.0	144.7	139.0	133.9	126.2	119.8	112.2	102.0
72.5°	124.9	116.7	112.2	105.8	102.0	98.8	91.8	84.8	74.6	68.9	59.9
75°	88.0	80.9	74.6	68.2	65.7	61.2	55.4	47.8	41.5	35.6	29.3
77.5°	54.8	50.3	44.6	39.6	37.0	34.4	29.9	24.2	19.8	15.3	11.4
80°	31.2	27.4	23.6	19.8	18.5	17.2	13.4	10.2	8.2	5.7	3.8
82.5°	14.7	12.2	10.2	8.2	7.6	6.3	4.4	3.2	1.9	1.3	0.6
85°	4.4	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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1925.5	1926.2	1926.8	1926.8	1926.8	1927.4	1927.4	1928.7	1929.3	1930.0	1930.0
5°	1915.4	1917.3	1918.5	1919.2	1919.8	1921.7	1922.4	1924.3	1925.5	1926.8	1928.1
7.5°	1901.3	1903.2	1905.8	1907.1	1908.4	1910.9	1912.8	1916.0	1917.9	1920.5	1923.0
10°	1883.5	1886.1	1889.9	1891.2	1892.4	1895.6	1899.4	1903.2	1906.5	1910.3	1913.5
12.5°	1857.3	1861.2	1865.7	1866.9	1868.8	1873.3	1877.7	1883.5	1888.0	1893.1	1898.1
15°	1824.8	1829.9	1833.1	1834.4	1837.0	1843.3	1847.8	1854.1	1861.2	1868.8	1874.5
17.5°	1779.6	1782.1	1787.9	1790.5	1793.6	1800.0	1807.0	1814.7	1821.0	1829.3	1838.3
20°	1720.3	1724.2	1731.1	1733.7	1737.5	1743.3	1753.5	1759.8	1770.1	1780.2	1786.7
22.5°	1646.4	1653.4	1660.4	1663.6	1666.1	1673.2	1680.2	1691.1	1699.3	1713.3	1721.6
25°	1569.8	1571.9	1577.6	1583.3	1584.5	1593.4	1601.8	1614.5	1622.8	1631.7	1643.2
27.5°	1482.0	1484.5	1493.4	1494.6	1495.3	1504.9	1514.4	1524.7	1531.7	1541.8	1547.6
30°	1390.2	1394.6	1398.4	1400.9	1405.5	1409.9	1418.8	1431.6	1436.7	1445.6	1453.3
32.5°	1296.4	1296.4	1305.3	1306.0	1308.6	1318.8	1323.8	1331.6	1340.4	1347.4	1346.8
35°	1203.4	1205.9	1209.1	1213.6	1215.5	1221.9	1223.8	1229.5	1235.3	1240.4	1246.7
37.5°	1107.1	1107.1	1114.1	1117.4	1119.3	1122.5	1125.6	1131.4	1134.5	1136.4	1140.3
40°	1015.3	1017.9	1019.2	1020.5	1020.5	1025.0	1027.5	1031.9	1033.8	1038.9	1036.4
42.5°	922.3	921.0	921.6	924.9	925.5	928.1	930.0	932.5	935.1	933.8	938.2
45°	823.5	824.1	825.4	825.4	827.4	830.6	833.7	835.0	836.9	840.1	840.7
47.5°	720.2	723.4	721.5	726.6	727.9	728.5	736.2	736.9	743.2	744.5	744.5
50°	624.0	624.0	627.8	629.7	631.0	632.9	635.5	638.1	640.0	644.4	645.7
52.5°	537.3	538.5	538.5	536.6	538.5	538.5	545.0	545.6	545.0	546.3	548.2
55°	459.5	460.2	456.4	458.9	458.3	456.4	457.6	453.8	453.2	455.1	453.8
57.5°	385.0	382.4	381.8	378.6	378.6	375.5	372.3	372.3	369.6	365.2	364.6
60°	318.0	314.2	311.7	309.8	304.7	301.5	297.0	293.2	288.1	282.4	279.2
62.5°	255.0	250.4	245.4	242.8	239.0	231.4	225.6	219.9	211.6	206.6	201.4
65°	198.8	191.9	183.6	179.7	175.9	168.9	161.3	151.7	143.4	136.4	127.4
67.5°	144.0	136.4	128.1	122.4	118.6	110.3	101.3	93.1	83.4	75.8	71.4
70°	94.3	84.8	77.1	72.7	68.9	60.6	52.2	45.3	40.8	38.9	38.3
72.5°	53.5	44.0	38.3	33.7	30.6	24.9	20.4	17.9	16.6	16.0	14.7
75°	23.0	17.2	13.4	10.8	9.5	7.6	7.0	7.0	7.0	6.3	6.3
77.5°	8.2	5.7	4.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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: P844493

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1930.7	1932.0	1932.0	1932.6	1933.2	1933.2	1933.2	1933.2
5°	1929.3	1930.7	1931.3	1932.0	1932.6	1933.2	1933.2	1933.2
7.5°	1924.3	1926.8	1927.4	1928.7	1930.0	1930.7	1930.7	1931.3
10°	1916.6	1919.2	1921.1	1922.4	1923.6	1924.9	1926.2	1926.2
12.5°	1902.6	1906.5	1909.0	1910.3	1913.5	1914.7	1916.0	1917.3
15°	1879.6	1884.8	1888.0	1890.5	1893.1	1896.9	1897.5	1899.4
17.5°	1845.3	1852.2	1853.5	1857.3	1860.6	1866.9	1866.3	1866.9
20°	1795.5	1803.2	1805.7	1809.5	1814.7	1819.1	1822.9	1819.8
22.5°	1729.2	1738.1	1742.0	1745.8	1749.0	1752.8	1757.9	1758.5
25°	1650.9	1658.5	1661.6	1664.2	1670.6	1673.8	1678.9	1679.5
27.5°	1561.0	1565.4	1569.8	1571.2	1578.2	1580.1	1584.5	1584.5
30°	1459.0	1464.1	1469.2	1471.1	1473.0	1475.0	1478.1	1480.1
32.5°	1354.4	1359.6	1361.5	1364.7	1365.3	1368.5	1367.2	1372.3
35°	1249.9	1251.2	1253.1	1252.4	1256.9	1256.3	1261.4	1260.8
37.5°	1144.8	1143.5	1146.7	1149.9	1148.6	1147.3	1149.2	1146.1
40°	1039.5	1040.2	1040.8	1044.1	1040.8	1042.7	1041.5	1040.8
42.5°	941.4	941.4	937.6	941.4	938.9	937.6	940.1	936.3
45°	842.0	841.3	842.0	842.6	842.6	842.6	840.1	842.6
47.5°	747.6	748.3	745.7	750.2	748.9	746.4	746.4	744.5
50°	647.6	651.4	655.8	652.0	655.2	653.3	651.4	653.3
52.5°	552.6	555.2	552.0	552.6	559.6	559.6	555.8	555.2
55°	451.3	451.3	452.6	453.2	453.8	462.1	457.6	458.9
57.5°	360.8	360.8	358.9	362.7	360.1	357.0	360.1	351.9
60°	274.0	273.4	271.5	269.0	262.6	260.7	253.7	253.1
62.5°	195.0	188.0	185.5	180.4	173.3	171.4	164.5	163.8
65°	121.1	112.8	110.3	107.7	104.5	103.9	101.3	102.6
67.5°	68.9	67.6	66.9	65.0	63.8	62.5	62.5	61.9
70°	36.4	33.7	33.1	32.5	32.5	29.9	29.3	30.6
72.5°	14.1	12.8	12.8	12.8	12.2	12.2	12.2	12.2
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)