

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: P844475

Luminaire Tested: **LD6C40DE010B2750 EU6C40B35 6LBLWWH**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40DE010B2750 EU6C40B35 6LBLWWH
Description:
Light Source: -
Ballast/Driver:

Summary

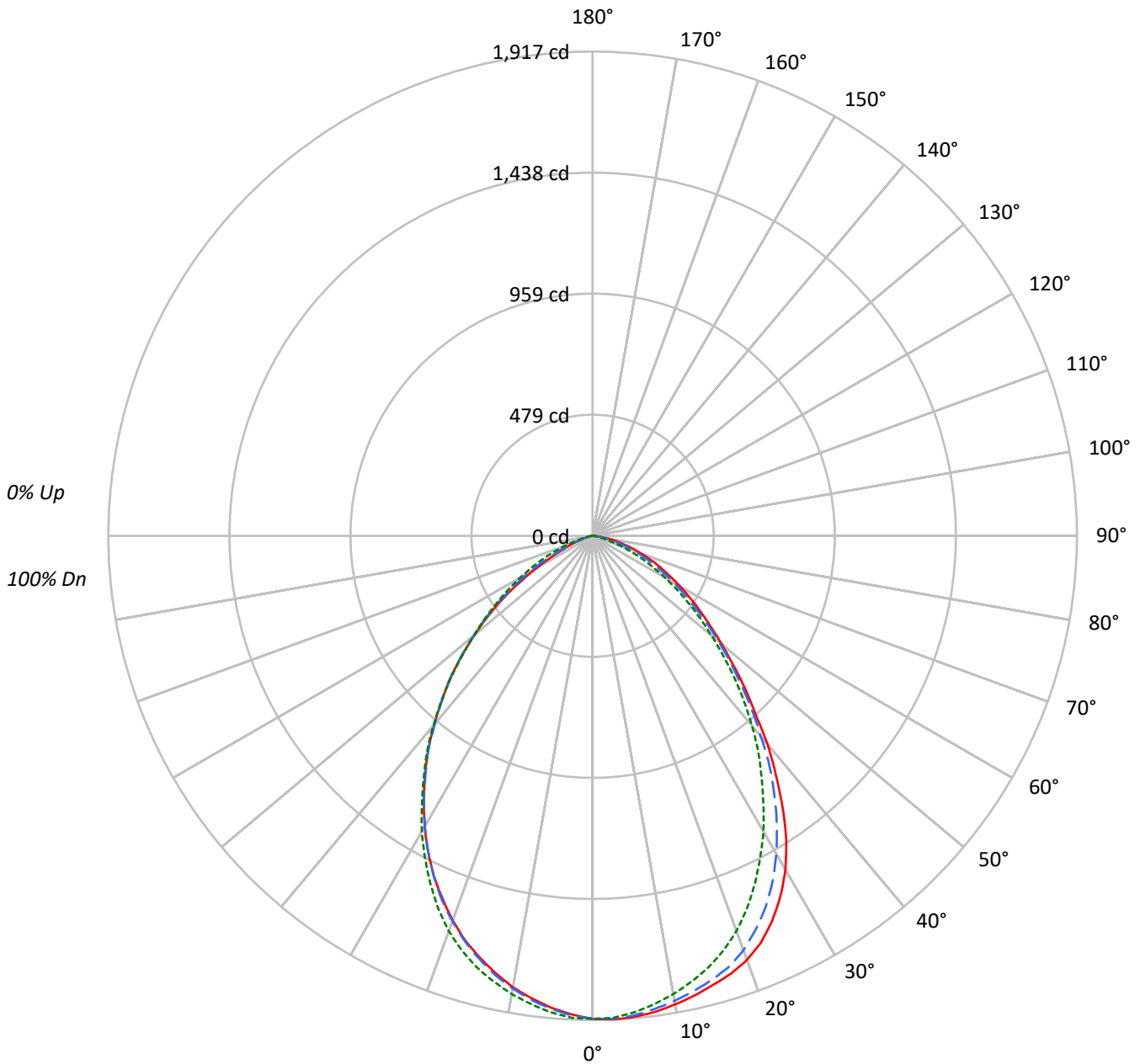
Lumens per Lamp: N/A
Luminaire Lumens: 3478.5 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	104838	104838	104838
5°	105206	104248	103219
10°	104880	102553	101050
15°	104484	100432	98099
20°	104251	97128	94537
25°	101716	91917	89896
30°	96641	85614	84190
35°	87716	77952	77437
40°	76958	70153	69781
45°	65984	61301	61797
50°	56800	52246	51973
55°	49642	44118	41404
60°	43626	36159	28254
65°	38188	28019	17006
70°	32570	18849	10002
75°	26285	9807	5443
80°	18279	3852	3031
85°	7233	1195	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	5.2
10°-20°	500.4	14.4
20°-30°	712.1	20.5
30°-40°	749.5	21.5
40°-50°	624.6	18.0
50°-60°	422.0	12.1
60°-70°	213.9	6.2
70°-80°	69.1	2.0
80°-90°	7.9	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°	1391.6	40.0
0°-40°	2141.1	61.6
0°-60°	3187.6	91.6
0°-90°	3478.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1912	1912	1912	1912	1912	
5°	1912	1906	1894	1880	1876	182
15°	1841	1821	1770	1734	1728	520
25°	1682	1620	1520	1488	1486	771
35°	1311	1254	1165	1153	1157	816
45°	851	829	791	794	797	659
55°	519	494	462	447	433	468
65°	294	266	216	156	131	293
75°	124	97	46	25	26	134
85°	12	6	2	2	2	20
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°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.2	1916.2	1915.0	1915.0	1914.3
5°	1911.8	1912.4	1912.4	1911.8	1911.8	1910.4	1910.4	1909.8	1907.9	1906.6	1906.0
7.5°	1900.8	1900.8	1900.1	1899.5	1898.9	1897.0	1896.3	1894.4	1893.1	1891.8	1889.3
10°	1884.1	1884.1	1883.4	1882.2	1881.5	1880.3	1880.3	1877.6	1875.1	1871.9	1870.0
12.5°	1864.2	1864.8	1863.6	1862.9	1860.9	1860.3	1859.0	1855.8	1853.9	1850.0	1846.8
15°	1841.0	1842.3	1842.3	1839.8	1837.9	1837.2	1835.2	1833.3	1828.9	1824.9	1821.1
17.5°	1818.5	1819.8	1818.5	1816.6	1814.7	1812.1	1810.8	1807.0	1801.2	1796.1	1790.3
20°	1787.0	1789.0	1786.3	1783.2	1779.4	1778.6	1776.7	1770.3	1761.9	1754.3	1745.9
22.5°	1742.7	1741.4	1739.5	1738.2	1731.8	1727.9	1725.3	1717.0	1708.0	1697.7	1687.3
25°	1681.6	1684.2	1680.4	1674.6	1671.3	1667.5	1661.0	1652.0	1643.7	1632.8	1620.5
27.5°	1609.6	1609.6	1604.4	1602.5	1595.4	1590.4	1587.1	1578.1	1567.2	1556.3	1542.8
30°	1526.7	1522.8	1522.8	1513.8	1508.1	1506.1	1502.9	1488.1	1478.5	1466.9	1453.4
32.5°	1426.4	1425.8	1423.2	1417.4	1409.7	1403.3	1403.3	1393.0	1380.1	1365.9	1357.6
35°	1310.7	1311.4	1310.1	1303.6	1303.6	1295.9	1294.6	1285.7	1275.4	1264.4	1254.1
37.5°	1191.1	1193.8	1191.1	1187.9	1186.0	1185.4	1179.6	1173.1	1165.4	1159.0	1151.2
40°	1075.4	1071.6	1072.9	1066.4	1067.0	1065.8	1063.2	1054.9	1050.3	1043.9	1035.5
42.5°	950.7	954.6	955.9	952.0	950.7	948.2	950.7	947.5	942.4	939.2	931.5
45°	851.1	847.3	849.2	847.9	848.5	843.4	841.5	840.2	838.3	832.5	829.2
47.5°	752.1	752.7	752.1	749.5	748.3	748.3	745.6	741.8	741.8	737.9	735.4
50°	666.0	666.0	667.3	664.0	662.7	660.2	660.8	657.0	654.4	651.2	649.3
52.5°	586.9	587.5	585.0	585.6	584.3	584.3	581.7	579.2	576.6	570.8	569.5
55°	519.4	520.0	516.9	518.1	514.2	512.3	511.0	507.1	507.1	501.4	494.3
57.5°	456.4	455.7	455.1	453.2	450.7	448.6	446.7	442.3	440.3	436.5	430.7
60°	397.9	397.2	396.0	395.3	393.4	388.9	388.9	385.7	379.3	375.4	369.6
62.5°	342.7	342.7	341.9	340.0	338.1	336.2	335.0	332.3	325.9	321.4	316.2
65°	294.4	293.8	291.8	288.6	287.4	287.4	282.8	280.9	275.7	271.3	265.5
67.5°	248.1	245.6	244.3	244.9	241.0	241.0	237.2	233.9	229.5	221.8	217.2
70°	203.2	201.8	200.5	199.3	198.6	196.1	194.2	190.3	185.8	180.0	172.9
72.5°	162.7	162.7	160.7	159.4	157.5	154.9	153.7	150.4	145.3	138.9	133.7
75°	124.1	124.1	124.1	121.5	120.3	118.9	115.1	113.2	107.3	103.5	97.1
77.5°	91.3	90.0	88.1	87.5	86.1	84.8	82.9	79.7	74.6	70.0	66.2
80°	57.9	59.8	57.9	57.9	54.7	53.3	52.7	48.9	47.0	43.0	39.9
82.5°	32.2	32.8	31.5	30.9	29.0	28.2	28.2	25.7	24.4	21.9	19.9
85°	11.5	12.2	11.5	11.5	10.3	10.9	10.3	9.6	8.4	7.1	6.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1914.3	1913.0	1913.0	1912.4	1911.8	1911.8	1911.8	1911.1	1909.8	1909.8	1909.1
5°	1904.7	1903.4	1901.4	1900.1	1899.5	1898.9	1898.2	1897.6	1895.1	1894.4	1892.4
7.5°	1887.3	1886.0	1882.8	1881.5	1879.6	1879.0	1876.3	1875.1	1872.5	1870.0	1868.6
10°	1866.7	1863.6	1860.9	1857.7	1856.5	1854.6	1851.3	1847.5	1845.6	1842.3	1839.8
12.5°	1843.6	1839.8	1834.6	1830.8	1829.5	1826.2	1821.1	1817.9	1813.4	1808.2	1803.8
15°	1814.7	1810.1	1805.7	1798.6	1796.7	1792.8	1787.7	1781.3	1774.8	1769.6	1764.6
17.5°	1783.2	1776.1	1769.0	1761.3	1755.6	1753.6	1745.2	1736.2	1730.5	1721.5	1715.7
20°	1738.9	1729.1	1717.6	1709.9	1704.8	1699.0	1689.4	1679.6	1672.6	1664.9	1656.6
22.5°	1677.7	1668.7	1655.3	1643.7	1639.9	1631.5	1623.2	1614.2	1605.1	1596.7	1586.5
25°	1605.8	1596.1	1582.6	1571.0	1564.7	1560.8	1544.7	1535.7	1526.7	1519.6	1512.5
27.5°	1531.9	1514.4	1505.4	1487.5	1481.7	1480.4	1465.7	1455.9	1446.3	1436.7	1427.7
30°	1440.6	1427.1	1413.5	1400.7	1393.0	1388.5	1377.6	1365.3	1359.0	1352.5	1343.5
32.5°	1346.1	1333.9	1317.2	1304.9	1299.1	1292.7	1283.0	1274.7	1265.0	1257.9	1256.0
35°	1245.2	1231.6	1217.4	1208.5	1207.2	1199.5	1189.8	1182.8	1175.7	1164.8	1162.9
37.5°	1137.2	1129.4	1119.8	1106.9	1101.1	1101.1	1091.5	1086.4	1077.4	1076.7	1071.6
40°	1031.1	1027.9	1013.1	1009.2	1007.9	998.9	996.4	987.4	981.0	980.3	972.6
42.5°	926.3	917.9	915.4	908.9	903.1	901.8	896.1	892.2	889.7	885.8	882.0
45°	822.2	820.2	813.8	809.3	807.4	804.9	802.8	795.1	793.9	790.7	788.8
47.5°	732.2	727.0	721.2	716.1	715.5	711.6	707.1	707.1	700.0	699.4	698.1
50°	642.8	638.9	635.7	628.7	629.9	624.8	624.2	618.4	615.2	612.6	615.9
52.5°	564.4	556.6	555.4	549.7	547.6	548.3	541.3	539.3	538.0	535.5	534.2
55°	489.8	486.0	480.8	477.0	473.7	470.5	468.0	468.0	460.9	461.6	458.4
57.5°	424.2	421.0	414.6	408.9	407.5	403.7	400.5	397.2	396.6	392.2	388.9
60°	365.7	360.0	351.7	349.0	345.2	341.9	338.8	335.0	332.9	329.8	324.0
62.5°	311.2	301.5	298.3	293.2	288.6	286.7	281.5	277.1	273.8	269.4	264.8
65°	259.0	252.0	246.2	240.4	239.8	234.6	230.1	226.2	219.9	216.0	207.6
67.5°	211.5	205.1	198.6	192.8	188.4	187.1	180.0	175.5	171.0	163.3	156.2
70°	167.7	161.4	156.2	149.1	147.2	142.0	137.0	132.4	124.7	117.6	111.9
72.5°	127.9	120.9	115.1	109.9	106.7	102.2	97.1	91.9	84.2	77.1	72.0
75°	91.3	86.1	80.4	75.2	72.7	70.0	64.3	58.5	53.3	46.3	41.8
77.5°	61.7	56.6	51.4	47.0	43.7	41.8	38.0	33.4	29.0	25.1	21.9
80°	36.0	32.8	29.0	25.1	24.4	22.5	19.2	16.7	14.2	12.2	9.6
82.5°	17.3	15.4	12.9	10.9	9.6	9.0	7.7	6.5	5.2	4.5	4.5
85°	5.2	4.5	3.8	3.2	2.5	2.5	1.9	1.9	1.9	1.9	1.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1907.2	1906.6	1906.0	1905.3	1904.1	1904.1	1902.0	1900.8	1900.8	1899.5	1898.9
5°	1890.5	1888.6	1888.0	1886.7	1885.3	1884.7	1882.2	1881.5	1880.3	1879.0	1879.0
7.5°	1866.7	1864.2	1861.6	1860.3	1859.6	1857.7	1856.5	1855.8	1853.9	1852.6	1850.0
10°	1835.2	1833.3	1830.1	1828.9	1827.5	1826.2	1823.0	1821.1	1820.5	1819.1	1817.9
12.5°	1798.6	1796.1	1792.8	1790.3	1789.0	1787.0	1783.8	1781.9	1781.9	1779.4	1779.4
15°	1759.4	1755.6	1749.7	1747.2	1746.6	1742.7	1740.1	1737.6	1734.3	1733.0	1733.0
17.5°	1709.2	1702.8	1697.7	1697.7	1695.1	1691.3	1687.3	1685.4	1683.5	1681.0	1679.6
20°	1650.1	1645.6	1639.9	1639.9	1634.0	1632.8	1628.9	1628.2	1623.8	1624.4	1622.5
22.5°	1578.7	1576.2	1573.0	1570.4	1567.2	1563.3	1561.4	1562.0	1560.1	1559.5	1558.8
25°	1506.8	1499.7	1495.8	1494.5	1493.3	1490.1	1488.7	1488.1	1488.1	1486.2	1486.8
27.5°	1423.8	1418.7	1413.5	1415.4	1412.9	1411.0	1409.7	1407.8	1409.1	1408.5	1409.1
30°	1339.0	1332.5	1329.3	1330.6	1330.0	1324.9	1327.4	1326.8	1327.4	1327.4	1328.7
32.5°	1249.6	1245.2	1244.5	1245.2	1239.3	1240.0	1237.4	1241.2	1241.9	1245.8	1242.6
35°	1159.0	1156.4	1152.0	1151.2	1152.0	1151.2	1151.2	1153.9	1153.2	1157.1	1155.8
37.5°	1065.8	1064.5	1060.0	1061.3	1058.7	1063.2	1064.5	1063.2	1067.7	1066.4	1065.8
40°	974.5	972.6	970.1	975.1	972.0	969.3	973.9	970.1	971.3	975.1	975.1
42.5°	882.0	878.7	878.7	878.7	878.0	878.0	880.1	882.0	880.7	881.3	886.4
45°	788.8	788.0	786.1	787.4	786.8	790.1	790.1	791.3	793.9	796.4	795.1
47.5°	698.8	697.4	699.4	698.1	698.8	696.8	698.1	702.0	705.1	700.7	705.1
50°	614.5	611.9	611.3	613.2	612.6	611.9	613.2	613.2	611.9	611.9	616.5
52.5°	534.2	531.6	529.7	532.9	530.9	531.6	529.0	529.0	530.3	529.0	527.1
55°	459.0	457.0	454.5	455.7	452.6	451.9	449.3	449.3	447.4	446.1	442.3
57.5°	387.0	385.7	379.9	379.3	379.9	375.4	370.9	369.0	363.8	362.6	361.9
60°	323.3	316.2	313.1	309.1	306.6	304.7	299.5	296.3	288.6	284.1	283.4
62.5°	257.1	253.9	250.0	244.3	242.9	236.6	231.4	223.1	219.2	213.4	207.6
65°	203.8	195.5	189.6	186.5	181.3	175.5	169.8	160.7	156.2	149.1	143.3
67.5°	149.1	142.0	134.3	131.8	127.2	120.3	114.4	106.7	102.8	96.5	94.4
70°	102.2	95.8	90.0	86.1	82.9	75.8	70.0	67.5	63.7	62.4	62.4
72.5°	65.6	59.8	53.3	51.4	48.9	44.9	41.1	39.9	41.1	40.5	40.5
75°	36.6	33.4	29.0	27.0	27.0	25.7	25.1	25.1	25.1	25.1	25.1
77.5°	18.6	16.7	15.4	14.8	14.8	14.8	15.4	15.4	15.4	16.1	15.4
80°	9.0	8.4	8.4	8.4	9.0	9.0	9.0	9.0	9.0	9.6	9.0
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	5.2	5.2	5.2	5.2	5.2
85°	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P844475

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B35 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1898.2	1897.0	1897.0	1896.3	1896.3	1896.3	1896.3	1897.0
5°	1877.6	1877.0	1877.0	1875.7	1875.7	1875.7	1875.7	1875.7
7.5°	1850.0	1848.7	1849.4	1848.1	1848.1	1848.7	1848.1	1847.5
10°	1816.0	1815.3	1816.0	1816.0	1814.7	1814.1	1814.7	1815.3
12.5°	1777.4	1776.7	1775.4	1776.1	1776.1	1775.4	1774.8	1773.5
15°	1732.4	1731.8	1731.1	1730.5	1729.9	1730.5	1729.9	1728.5
17.5°	1679.6	1679.6	1679.0	1678.4	1677.7	1676.5	1677.1	1679.0
20°	1623.2	1622.5	1621.1	1621.8	1619.2	1618.0	1618.6	1620.5
22.5°	1558.2	1556.3	1557.6	1555.6	1555.6	1556.3	1555.6	1554.3
25°	1487.5	1484.9	1486.2	1486.8	1486.8	1486.2	1485.6	1486.2
27.5°	1409.1	1411.0	1411.0	1409.7	1411.6	1409.1	1410.4	1411.0
30°	1328.7	1326.8	1326.2	1328.7	1332.5	1329.3	1329.3	1330.0
32.5°	1245.8	1243.2	1243.2	1244.5	1243.9	1243.9	1246.4	1243.2
35°	1157.1	1158.3	1153.2	1156.4	1157.7	1156.4	1157.1	1157.1
37.5°	1067.7	1066.4	1066.4	1066.4	1068.3	1068.3	1069.7	1069.1
40°	979.7	977.0	976.4	977.7	975.1	977.0	977.0	975.1
42.5°	884.5	885.1	888.4	885.1	885.8	885.1	883.9	883.2
45°	796.4	798.4	797.1	796.4	797.1	794.5	795.1	797.1
47.5°	703.2	707.1	703.2	705.9	705.1	703.9	702.6	700.0
50°	615.9	617.1	616.5	615.9	615.2	614.5	611.3	609.4
52.5°	526.5	526.5	526.5	526.5	520.0	523.2	521.9	518.1
55°	439.0	440.9	438.4	438.4	433.9	433.9	432.6	433.2
57.5°	354.8	352.9	351.0	351.0	346.5	344.6	342.7	340.0
60°	276.4	274.5	271.9	268.7	264.2	264.2	262.9	257.7
62.5°	202.5	199.3	197.4	194.8	190.9	188.4	186.5	187.7
65°	138.9	135.6	133.1	133.1	133.1	131.8	131.1	131.1
67.5°	91.3	93.2	91.9	93.2	93.2	91.9	91.3	92.5
70°	63.0	63.0	62.4	62.4	62.4	62.4	61.7	62.4
72.5°	40.5	40.5	40.5	41.1	40.5	40.5	41.1	41.1
75°	25.7	25.7	25.7	26.3	25.7	25.7	26.3	25.7
77.5°	15.4	16.1	16.1	16.1	16.1	15.4	16.1	16.1
80°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)