

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: P844492

Luminaire Tested: **LD6C40DE010B2750 EU6C40B40 6LBLWWH**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844492  
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 EU6C40B40 6LBLWWH  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

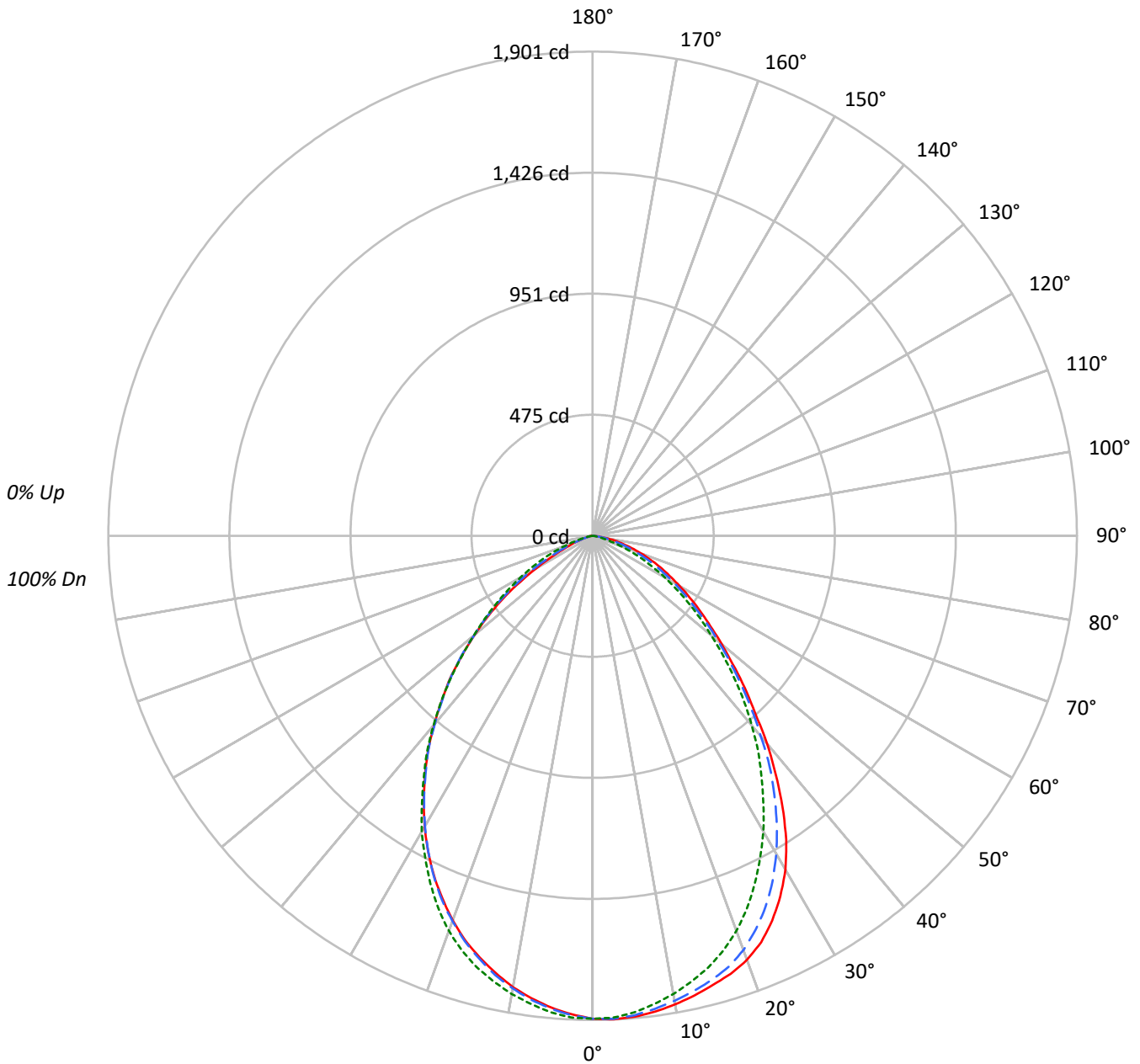
Lumens per Lamp: N/A  
Luminaire Lumens: 3448.9 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
RC	80									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°	103945	103945	103945
5°	104309	103362	102338
10°	103989	101679	100193
15°	103599	99581	97265
20°	103370	96305	93738
25°	100851	91136	89128
30°	95819	84886	83475
35°	86967	77283	76774
40°	76307	69559	69194
45°	65425	60774	61270
50°	56314	51802	51529
55°	49222	43736	41059
60°	43253	35841	28013
65°	37864	27785	16863
70°	32281	18705	9922
75°	26052	9722	5401
80°	18089	3820	2999
85°	7170	1195	1572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	5.2
10°-20°	496.1	14.4
20°-30°	706.0	20.5
30°-40°	743.1	21.5
40°-50°	619.3	18.0
50°-60°	418.4	12.1
60°-70°	212.1	6.2
70°-80°	68.5	2.0
80°-90°	7.8	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°	1379.8	40.0
0°-40°	2122.9	61.6
0°-60°	3160.5	91.6
0°-90°	3448.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1896	1896	1896	1896	1896	
5°	1896	1890	1878	1864	1860	180
15°	1825	1806	1755	1720	1714	516
25°	1667	1607	1507	1476	1474	764
35°	1300	1244	1155	1143	1147	809
45°	844	822	784	787	790	653
55°	515	490	458	444	430	464
65°	292	263	214	155	130	291
75°	123	96	46	25	26	133
85°	11	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°	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1
2.5°	1900.6	1900.6	1900.6	1900.6	1900.6	1900.6	1899.9	1899.9	1898.7	1898.7	1898.0
5°	1895.5	1896.1	1896.1	1895.5	1895.5	1894.2	1894.2	1893.6	1891.7	1890.4	1889.7
7.5°	1884.6	1884.6	1884.0	1883.3	1882.7	1880.8	1880.2	1878.3	1877.0	1875.7	1873.2
10°	1868.1	1868.1	1867.5	1866.2	1865.5	1864.2	1864.2	1861.6	1859.1	1855.9	1854.0
12.5°	1848.3	1849.0	1847.7	1847.1	1845.1	1844.5	1843.2	1840.0	1838.1	1834.3	1831.1
15°	1825.4	1826.6	1826.6	1824.1	1822.2	1821.6	1819.7	1817.8	1813.2	1809.4	1805.6
17.5°	1803.1	1804.3	1803.1	1801.2	1799.2	1796.7	1795.4	1791.5	1785.8	1780.7	1775.0
20°	1771.9	1773.8	1771.2	1767.9	1764.1	1763.5	1761.6	1755.2	1747.0	1739.3	1731.0
22.5°	1727.9	1726.6	1724.7	1723.4	1717.0	1713.2	1710.6	1702.4	1693.4	1683.2	1673.1
25°	1667.3	1669.8	1666.0	1660.3	1657.1	1653.3	1646.9	1638.0	1629.7	1618.8	1606.8
27.5°	1595.9	1595.9	1590.8	1588.9	1581.9	1576.8	1573.7	1564.7	1553.9	1543.0	1529.7
30°	1513.7	1509.9	1509.9	1501.0	1495.2	1493.3	1490.1	1475.5	1465.9	1454.5	1441.0
32.5°	1414.3	1413.6	1411.1	1405.4	1397.7	1391.3	1391.3	1381.2	1368.4	1354.4	1346.1
35°	1299.5	1300.1	1298.9	1292.5	1292.5	1284.9	1283.7	1274.7	1264.5	1253.6	1243.5
37.5°	1181.0	1183.6	1181.0	1177.8	1175.9	1175.2	1169.5	1163.2	1155.5	1149.1	1141.5
40°	1066.3	1062.5	1063.8	1057.3	1058.0	1056.7	1054.1	1045.9	1041.5	1035.0	1026.8
42.5°	942.7	946.5	947.7	943.9	942.7	940.1	942.7	939.5	934.3	931.1	923.5
45°	843.9	840.0	842.0	840.6	841.2	836.2	834.3	833.0	831.1	825.4	822.2
47.5°	745.7	746.4	745.7	743.1	741.8	741.8	739.3	735.5	735.5	731.7	729.1
50°	660.3	660.3	661.5	658.4	657.1	654.6	655.2	651.4	648.9	645.6	643.7
52.5°	581.9	582.5	580.0	580.6	579.4	579.4	576.8	574.3	571.7	565.9	564.7
55°	515.0	515.6	512.4	513.7	509.9	508.0	506.7	502.9	502.9	497.1	490.1
57.5°	452.6	451.9	451.3	449.3	446.7	444.8	442.9	438.5	436.6	432.8	427.1
60°	394.5	393.9	392.6	392.0	390.1	385.6	385.6	382.4	376.0	372.2	366.5
62.5°	339.7	339.7	339.1	337.2	335.3	333.4	332.1	329.6	323.1	318.7	313.6
65°	291.9	291.3	289.4	286.2	284.9	284.9	280.4	278.5	273.4	269.0	263.2
67.5°	246.0	243.5	242.2	242.8	239.0	239.0	235.2	232.0	227.5	219.9	215.4
70°	201.4	200.1	198.8	197.6	196.9	194.4	192.5	188.7	184.2	178.4	171.4
72.5°	161.3	161.3	159.4	158.0	156.1	153.6	152.3	149.1	144.0	137.7	132.5
75°	123.0	123.0	123.0	120.5	119.2	117.9	114.1	112.2	106.4	102.6	96.2
77.5°	90.5	89.3	87.4	86.7	85.5	84.1	82.2	79.0	73.9	69.5	65.7
80°	57.3	59.2	57.3	57.3	54.2	52.9	52.2	48.4	46.5	42.7	39.6
82.5°	31.8	32.5	31.2	30.6	28.7	28.0	28.0	25.5	24.2	21.7	19.8
85°	11.4	12.1	11.4	11.4	10.2	10.8	10.2	9.5	8.2	7.0	6.3
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°	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1
2.5°	1898.0	1896.8	1896.8	1896.1	1895.5	1895.5	1895.5	1894.9	1893.6	1893.6	1893.0
5°	1888.4	1887.1	1885.2	1884.0	1883.3	1882.7	1882.1	1881.4	1878.9	1878.3	1876.3
7.5°	1871.3	1870.0	1866.8	1865.5	1863.6	1862.9	1860.4	1859.1	1856.6	1854.0	1852.8
10°	1850.9	1847.7	1845.1	1842.0	1840.6	1838.7	1835.5	1831.7	1829.8	1826.6	1824.1
12.5°	1827.9	1824.1	1819.0	1815.1	1813.8	1810.7	1805.6	1802.4	1798.0	1792.9	1788.4
15°	1799.2	1794.8	1790.3	1783.3	1781.4	1777.6	1772.5	1766.0	1759.7	1754.6	1749.5
17.5°	1767.9	1761.0	1754.0	1746.4	1740.5	1738.6	1730.4	1721.5	1715.7	1706.8	1701.1
20°	1724.0	1714.4	1703.0	1695.4	1690.2	1684.5	1675.0	1665.4	1658.4	1650.8	1642.4
22.5°	1663.4	1654.6	1641.1	1629.7	1625.9	1617.5	1609.3	1600.4	1591.4	1583.2	1573.0
25°	1592.1	1582.5	1569.1	1557.7	1551.3	1547.4	1531.6	1522.6	1513.7	1506.7	1499.6
27.5°	1518.8	1501.6	1492.6	1474.8	1469.1	1467.8	1453.2	1443.6	1434.0	1424.4	1415.5
30°	1428.3	1414.9	1401.5	1388.8	1381.2	1376.6	1365.8	1353.8	1347.3	1341.0	1332.1
32.5°	1334.6	1322.5	1306.0	1293.8	1288.1	1281.7	1272.1	1263.9	1254.2	1247.3	1245.4
35°	1234.6	1221.1	1207.1	1198.2	1196.9	1189.3	1179.7	1172.7	1165.7	1154.8	1152.9
37.5°	1127.4	1119.8	1110.3	1097.5	1091.8	1091.8	1082.2	1077.1	1068.2	1067.6	1062.5
40°	1022.3	1019.1	1004.4	1000.6	999.4	990.5	987.9	978.9	972.6	972.0	964.4
42.5°	918.4	910.1	907.6	901.2	895.5	894.2	888.4	884.6	882.1	878.3	874.5
45°	815.1	813.2	806.9	802.4	800.5	798.0	796.1	788.4	787.1	783.9	782.0
47.5°	726.0	720.9	715.1	710.0	709.4	705.5	701.1	701.1	694.0	693.4	692.1
50°	637.3	633.5	630.3	623.4	624.6	619.5	618.8	613.1	609.9	607.4	610.6
52.5°	559.6	552.0	550.7	544.9	543.0	543.6	536.6	534.7	533.5	530.9	529.7
55°	485.7	481.9	476.8	472.9	469.7	466.5	464.0	464.0	457.0	457.6	454.5
57.5°	420.6	417.4	411.1	405.4	404.1	400.2	397.0	393.9	393.2	388.8	385.6
60°	362.7	357.0	348.6	346.1	342.3	339.1	335.9	332.1	330.2	326.9	321.2
62.5°	308.5	298.9	295.7	290.6	286.2	284.3	279.1	274.7	271.5	267.1	262.6
65°	256.9	249.8	244.1	238.4	237.8	232.7	228.1	224.3	218.0	214.2	205.8
67.5°	209.7	203.3	196.9	191.2	186.8	185.5	178.4	174.0	169.5	161.9	154.8
70°	166.4	160.0	154.8	147.9	146.0	140.9	135.8	131.3	123.6	116.7	110.9
72.5°	126.8	119.8	114.1	108.9	105.8	101.3	96.2	91.2	83.4	76.5	71.4
75°	90.5	85.5	79.6	74.6	72.0	69.5	63.8	58.0	52.9	45.9	41.5
77.5°	61.2	56.1	51.0	46.5	43.4	41.5	37.7	33.1	28.7	24.9	21.7
80°	35.6	32.5	28.7	24.9	24.2	22.3	19.1	16.6	14.1	12.1	9.5
82.5°	17.2	15.3	12.8	10.8	9.5	8.9	7.6	6.3	5.1	4.4	4.4
85°	5.1	4.4	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°	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1
2.5°	1891.0	1890.4	1889.7	1889.0	1887.8	1887.8	1885.9	1884.6	1884.6	1883.3	1882.7
5°	1874.4	1872.5	1871.9	1870.6	1869.4	1868.7	1866.2	1865.5	1864.2	1862.9	1862.9
7.5°	1850.9	1848.3	1845.8	1844.5	1843.9	1842.0	1840.6	1840.0	1838.1	1836.8	1834.3
10°	1819.7	1817.8	1814.5	1813.2	1811.9	1810.7	1807.5	1805.6	1805.0	1803.7	1802.4
12.5°	1783.3	1780.7	1777.6	1775.0	1773.8	1771.9	1768.7	1766.7	1766.7	1764.1	1764.1
15°	1744.5	1740.5	1734.8	1732.3	1731.7	1727.9	1725.3	1722.8	1719.6	1718.2	1718.2
17.5°	1694.6	1688.3	1683.2	1683.2	1680.7	1676.9	1673.1	1671.2	1669.2	1666.6	1665.4
20°	1636.1	1631.6	1625.9	1625.9	1620.1	1618.8	1615.0	1614.4	1609.9	1610.6	1608.7
22.5°	1565.3	1562.8	1559.6	1557.0	1553.9	1550.1	1548.1	1548.8	1546.8	1546.2	1545.5
25°	1493.9	1486.9	1483.1	1481.9	1480.6	1477.4	1476.1	1475.5	1475.5	1473.5	1474.1
27.5°	1411.7	1406.7	1401.5	1403.5	1400.8	1398.9	1397.7	1395.8	1397.0	1396.4	1397.0
30°	1327.5	1321.2	1318.0	1319.3	1318.7	1313.6	1316.1	1315.5	1316.1	1316.1	1317.4
32.5°	1239.0	1234.6	1233.9	1234.6	1228.8	1229.4	1226.9	1230.7	1231.3	1235.2	1232.0
35°	1149.1	1146.6	1142.1	1141.5	1142.1	1141.5	1141.5	1144.0	1143.4	1147.2	1145.9
37.5°	1056.7	1055.4	1051.0	1052.2	1049.7	1054.1	1055.4	1054.1	1058.6	1057.3	1056.7
40°	966.3	964.4	961.7	966.9	963.7	961.1	965.6	961.7	963.0	966.9	966.9
42.5°	874.5	871.3	871.3	871.3	870.6	870.6	872.5	874.5	873.2	873.8	878.9
45°	782.0	781.4	779.5	780.7	780.1	783.3	783.3	784.6	787.1	789.6	788.4
47.5°	692.8	691.5	693.4	692.1	692.8	690.8	692.1	696.0	699.2	694.7	699.2
50°	609.3	606.8	606.1	608.0	607.4	606.8	608.0	608.0	606.8	606.8	611.2
52.5°	529.7	527.1	525.2	528.4	526.5	527.1	524.6	524.6	525.9	524.6	522.6
55°	455.1	453.2	450.6	451.9	448.6	448.0	445.5	445.5	443.6	442.3	438.5
57.5°	383.7	382.4	376.6	376.0	376.6	372.2	367.7	365.8	360.8	359.5	358.9
60°	320.6	313.6	310.4	306.6	304.0	302.1	297.0	293.8	286.2	281.8	281.1
62.5°	254.9	251.7	247.9	242.2	240.9	234.6	229.4	221.2	217.3	211.6	205.8
65°	202.0	193.8	188.0	184.9	179.7	174.0	168.3	159.4	154.8	147.9	142.1
67.5°	147.9	140.9	133.2	130.6	126.2	119.2	113.5	105.8	102.0	95.6	93.7
70°	101.3	95.0	89.3	85.5	82.2	75.2	69.5	66.9	63.1	61.9	61.9
72.5°	65.0	59.2	52.9	51.0	48.4	44.6	40.8	39.6	40.8	40.2	40.2
75°	36.3	33.1	28.7	26.8	26.8	25.5	24.9	24.9	24.9	24.9	24.9
77.5°	18.5	16.6	15.3	14.7	14.7	14.7	15.3	15.3	15.3	16.0	15.3
80°	8.9	8.2	8.2	8.2	8.9	8.9	8.9	8.9	8.9	9.5	8.9
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	5.1	5.1	5.1	5.1	5.1
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: P844492

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B40 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1	1896.1
2.5°	1882.1	1880.8	1880.8	1880.2	1880.2	1880.2	1880.2	1880.8
5°	1861.6	1861.0	1861.0	1859.7	1859.7	1859.7	1859.7	1859.7
7.5°	1834.3	1833.0	1833.6	1832.4	1832.4	1833.0	1832.4	1831.7
10°	1800.5	1799.9	1800.5	1800.5	1799.2	1798.6	1799.2	1799.9
12.5°	1762.2	1761.6	1760.3	1761.0	1761.0	1760.3	1759.7	1758.4
15°	1717.6	1717.0	1716.3	1715.7	1715.1	1715.7	1715.1	1713.8
17.5°	1665.4	1665.4	1664.7	1664.1	1663.4	1662.2	1662.8	1664.7
20°	1609.3	1608.7	1607.4	1608.0	1605.5	1604.2	1604.9	1606.8
22.5°	1544.9	1543.0	1544.3	1542.3	1542.3	1543.0	1542.3	1541.1
25°	1474.8	1472.2	1473.5	1474.1	1474.1	1473.5	1472.9	1473.5
27.5°	1397.0	1398.9	1398.9	1397.7	1399.6	1397.0	1398.3	1398.9
30°	1317.4	1315.5	1314.9	1317.4	1321.2	1318.0	1318.0	1318.7
32.5°	1235.2	1232.7	1232.7	1233.9	1233.3	1233.3	1235.8	1232.7
35°	1147.2	1148.5	1143.4	1146.6	1147.8	1146.6	1147.2	1147.2
37.5°	1058.6	1057.3	1057.3	1057.3	1059.2	1059.2	1060.5	1059.9
40°	971.3	968.8	968.2	969.4	966.9	968.8	968.8	966.9
42.5°	877.0	877.6	880.8	877.6	878.3	877.6	876.4	875.7
45°	789.6	791.5	790.3	789.6	790.3	787.7	788.4	790.3
47.5°	697.3	701.1	697.3	699.8	699.2	697.9	696.7	694.0
50°	610.6	611.8	611.2	610.6	609.9	609.3	606.1	604.2
52.5°	521.9	521.9	521.9	521.9	515.6	518.8	517.5	513.7
55°	435.3	437.2	434.7	434.7	430.2	430.2	429.0	429.6
57.5°	351.8	349.9	348.0	348.0	343.5	341.6	339.7	337.2
60°	274.0	272.1	269.6	266.4	262.0	262.0	260.7	255.5
62.5°	200.7	197.6	195.7	193.1	189.3	186.8	184.9	186.1
65°	137.7	134.5	131.9	131.9	131.9	130.6	130.0	130.0
67.5°	90.5	92.4	91.2	92.4	92.4	91.2	90.5	91.8
70°	62.5	62.5	61.9	61.9	61.9	61.9	61.2	61.9
72.5°	40.2	40.2	40.2	40.8	40.2	40.2	40.8	40.8
75°	25.5	25.5	25.5	26.1	25.5	25.5	26.1	25.5
77.5°	15.3	16.0	16.0	16.0	16.0	15.3	16.0	16.0
80°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)