

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: P858084

Luminaire Tested: **LX4C40D010 EX4C409030 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409030 4LBLWW*
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

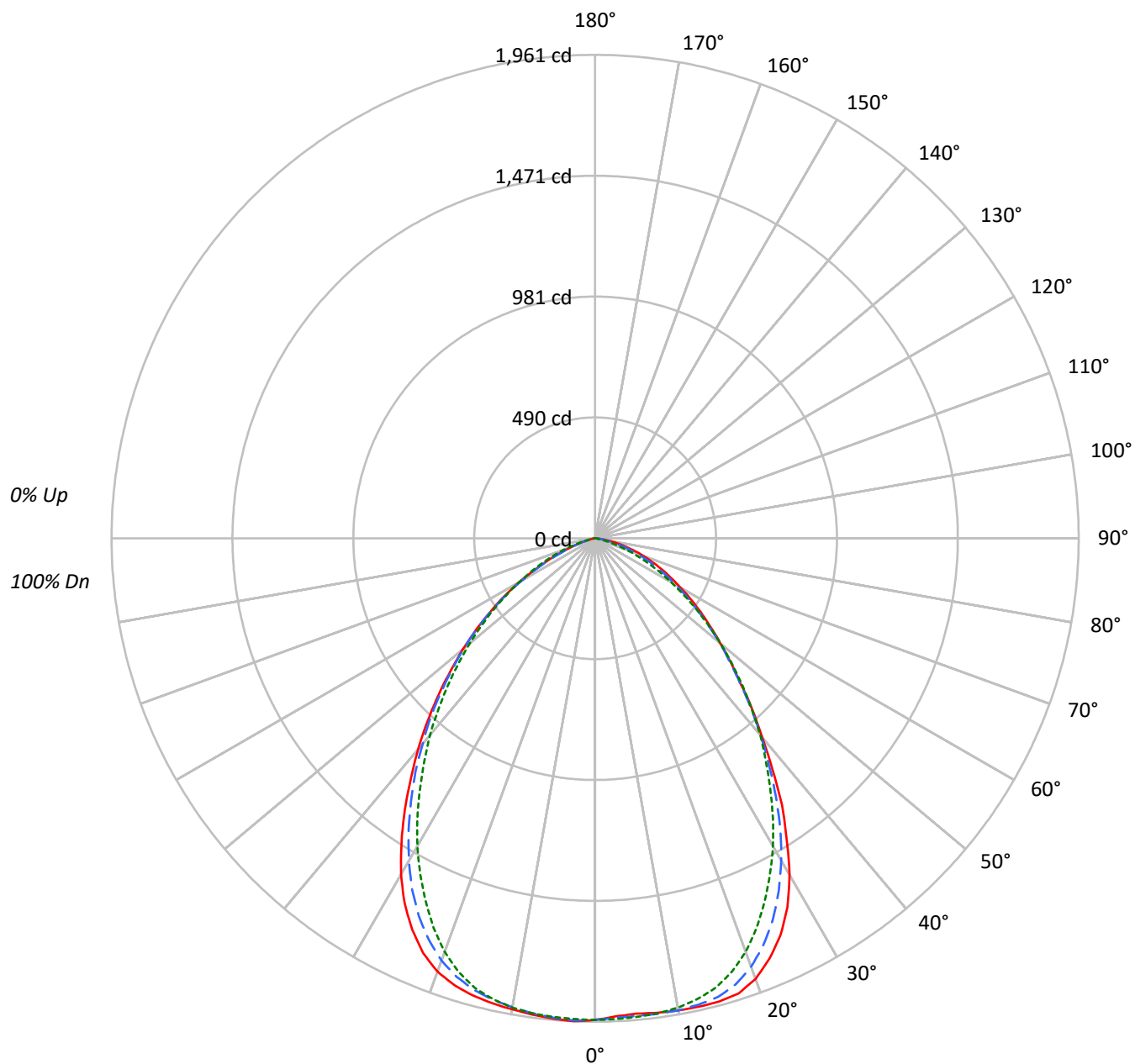
Lumens per Lamp: N/A
Luminaire Lumens: 3745.6 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 65
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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74	93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65	86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57	80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51	75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46	70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42	65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38	61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35	58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	240019	240019	240019
5°	238679	240319	241207
10°	242624	241164	242075
15°	247367	240091	244111
20°	248611	233367	244493
25°	240960	220383	237666
30°	223669	204518	223243
35°	198044	185506	201793
40°	168842	167077	178961
45°	145056	146724	155880
50°	126602	126889	133635
55°	111871	107180	110778
60°	98062	87423	87054
65°	86802	67790	60349
70°	74031	46624	35848
75°	59903	25110	16376
80°	40963	6155	4174
85°	12263	2114	2114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	5.0
10°-20°	537.5	14.4
20°-30°	776.7	20.7
30°-40°	802.9	21.4
40°-50°	663.4	17.7
50°-60°	457.9	12.2
60°-70°	239.7	6.4
70°-80°	75.5	2.0
80°-90°	6.4	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°	1499.9	40.0
0°-40°	2302.8	61.5
0°-60°	3424.1	91.4
0°-90°	3745.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3745.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1954	1954	1954	1954	1954	
5°	1935	1945	1949	1952	1956	185
15°	1945	1927	1888	1896	1919	549
25°	1778	1706	1626	1691	1753	812
35°	1320	1277	1237	1302	1346	820
45°	835	831	844	883	897	651
55°	522	506	500	514	517	469
65°	299	271	233	194	208	296
75°	126	99	53	36	34	135
85°	9	4	2	2	2	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°	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7
2.5°	1941.2	1941.9	1941.9	1943.5	1943.5	1943.5	1944.2	1944.2	1944.9	1945.7	1946.4
5°	1935.4	1935.4	1936.9	1937.7	1939.0	1939.7	1941.2	1941.9	1943.5	1944.2	1944.9
7.5°	1941.2	1941.2	1941.9	1942.8	1942.8	1943.5	1943.5	1944.2	1944.9	1945.7	1945.7
10°	1944.9	1944.9	1944.9	1944.9	1945.7	1945.7	1945.7	1944.9	1944.9	1944.9	1944.2
12.5°	1946.4	1946.4	1945.7	1944.9	1945.7	1944.9	1944.9	1942.8	1941.2	1939.7	1937.7
15°	1944.9	1944.9	1944.2	1943.5	1942.8	1941.2	1940.5	1936.9	1933.9	1929.5	1926.6
17.5°	1935.4	1933.9	1932.5	1931.0	1928.0	1925.8	1924.4	1917.7	1912.5	1905.3	1897.3
20°	1901.6	1900.2	1898.0	1894.3	1890.6	1887.7	1883.2	1873.8	1868.6	1857.6	1849.6
22.5°	1846.6	1845.1	1845.9	1839.2	1831.9	1827.5	1824.7	1816.5	1807.8	1793.7	1785.0
25°	1777.6	1773.3	1773.3	1763.0	1759.3	1756.3	1752.6	1743.2	1730.0	1717.4	1705.7
27.5°	1688.1	1682.2	1679.3	1677.8	1669.0	1662.5	1657.3	1650.0	1639.0	1628.0	1611.9
30°	1576.7	1575.9	1572.2	1565.7	1559.0	1556.0	1550.2	1537.8	1527.5	1519.4	1509.1
32.5°	1445.2	1444.5	1444.5	1444.5	1440.2	1439.4	1430.6	1424.0	1415.9	1403.5	1396.8
35°	1320.5	1319.8	1320.5	1309.5	1306.7	1304.5	1303.7	1299.3	1288.3	1282.4	1276.6
37.5°	1179.7	1182.0	1180.5	1177.5	1181.2	1174.6	1179.7	1170.1	1165.8	1164.3	1157.8
40°	1052.8	1058.7	1052.8	1053.5	1057.3	1050.6	1050.6	1049.1	1046.1	1044.8	1043.2
42.5°	944.3	936.8	941.3	937.6	941.3	939.1	935.3	937.6	938.4	935.3	934.6
45°	834.9	836.3	837.8	835.5	835.5	833.5	839.3	835.5	835.5	836.3	831.3
47.5°	746.1	744.0	745.4	744.0	744.7	743.2	744.7	745.4	744.0	744.0	739.5
50°	662.4	661.1	666.2	661.8	661.8	661.1	661.8	660.4	658.1	658.1	659.6
52.5°	589.8	586.9	586.2	589.8	584.8	584.8	585.5	584.0	581.0	579.6	575.8
55°	522.3	521.6	522.3	519.4	518.0	518.0	514.2	512.9	512.2	508.4	506.2
57.5°	459.3	457.0	457.8	457.0	454.1	453.4	450.5	450.5	447.6	444.6	440.9
60°	399.1	399.1	401.4	398.4	396.2	394.7	393.2	391.7	386.6	381.5	377.2
62.5°	345.5	346.3	345.5	343.3	341.9	340.4	339.0	334.6	330.1	327.2	322.0
65°	298.6	297.8	295.7	294.2	290.6	290.6	287.7	285.4	280.2	275.9	270.7
67.5°	250.2	248.7	248.7	248.7	244.2	243.5	242.1	237.7	233.2	227.4	223.1
70°	206.1	207.6	205.4	203.2	201.0	200.3	198.0	193.7	188.6	182.7	179.0
72.5°	164.4	165.8	163.7	162.9	158.5	157.0	156.2	152.7	146.7	143.0	137.2
75°	126.2	126.9	125.4	124.0	121.0	120.3	116.7	113.7	110.1	104.3	99.1
77.5°	91.0	89.5	89.5	86.6	83.6	83.6	82.9	78.5	73.3	69.0	64.6
80°	57.9	57.2	54.9	53.6	51.4	50.7	49.8	46.2	42.6	39.7	36.7
82.5°	29.4	28.7	27.9	27.2	25.7	24.2	24.9	22.0	20.5	17.7	15.5
85°	8.7	9.6	9.6	8.7	8.0	8.0	8.0	7.3	5.9	5.2	4.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7
2.5°	1947.1	1947.8	1948.7	1949.4	1949.4	1950.0	1950.7	1951.5	1952.2	1952.2	1952.9
5°	1945.7	1947.1	1947.1	1947.8	1947.8	1947.8	1948.7	1948.7	1948.7	1948.7	1949.4
7.5°	1946.4	1946.4	1946.4	1945.7	1945.7	1944.9	1944.9	1944.9	1943.5	1943.5	1943.5
10°	1942.8	1941.9	1941.2	1939.7	1939.0	1938.4	1936.9	1935.4	1933.9	1933.2	1931.7
12.5°	1935.4	1932.5	1929.5	1926.6	1925.2	1924.4	1921.5	1919.3	1917.0	1914.8	1913.5
15°	1920.7	1916.3	1911.2	1905.3	1903.8	1902.4	1897.3	1892.8	1889.9	1887.7	1884.1
17.5°	1891.3	1882.5	1876.6	1867.9	1864.1	1862.8	1854.7	1850.3	1845.1	1843.7	1840.7
20°	1839.2	1831.2	1820.2	1812.1	1807.8	1803.3	1796.7	1790.8	1785.0	1785.0	1781.3
22.5°	1774.0	1763.7	1749.8	1739.4	1738.8	1730.0	1724.2	1717.4	1715.2	1710.9	1710.9
25°	1691.8	1683.0	1667.6	1658.7	1654.4	1652.2	1642.6	1633.8	1629.4	1625.8	1628.6
27.5°	1600.9	1587.6	1575.9	1565.0	1561.2	1556.8	1548.0	1544.3	1536.3	1535.6	1534.8
30°	1496.6	1483.4	1471.7	1466.6	1459.2	1455.5	1449.0	1444.5	1441.7	1441.7	1440.2
32.5°	1387.4	1375.6	1369.7	1358.7	1355.1	1349.9	1345.5	1341.2	1342.6	1341.2	1341.9
35°	1269.3	1266.3	1255.3	1248.6	1248.6	1247.9	1240.6	1237.6	1236.2	1236.9	1240.6
37.5°	1157.0	1148.1	1140.9	1136.4	1140.1	1135.7	1134.9	1134.9	1139.4	1136.4	1142.3
40°	1037.3	1036.6	1033.8	1035.1	1035.9	1030.8	1032.3	1033.1	1035.9	1041.8	1042.5
42.5°	933.3	932.5	932.5	932.5	931.0	928.1	931.0	936.1	935.3	939.8	943.5
45°	832.7	831.3	834.2	832.0	836.3	837.8	835.5	837.1	841.5	844.5	850.3
47.5°	740.9	740.9	741.7	743.2	738.8	742.5	744.0	746.9	749.0	750.5	753.4
50°	655.9	655.9	654.4	654.4	654.4	656.6	653.7	657.3	658.1	663.9	667.6
52.5°	577.4	573.7	575.8	574.5	571.6	570.0	571.6	572.3	576.7	578.1	582.6
55°	502.5	502.5	496.7	495.2	497.4	496.7	496.0	496.0	498.1	500.4	504.0
57.5°	436.6	432.1	427.6	426.9	424.8	425.6	425.6	424.8	423.4	424.1	424.8
60°	374.2	371.2	364.7	364.7	364.0	363.1	359.5	358.8	355.1	355.8	353.0
62.5°	316.9	315.5	306.7	303.6	303.6	301.6	297.8	297.1	291.9	291.9	289.1
65°	265.5	261.2	256.0	250.9	250.9	248.0	245.8	239.2	235.5	233.2	229.0
67.5°	218.6	212.1	206.9	202.5	199.6	198.9	193.7	189.3	183.4	179.8	173.1
70°	173.1	167.9	162.9	158.5	155.6	152.7	147.5	140.9	136.5	129.8	125.4
72.5°	130.5	126.2	121.8	116.0	112.3	110.1	105.0	99.1	91.8	87.3	81.4
75°	93.9	88.8	82.9	77.8	75.6	73.3	67.5	63.1	57.9	52.9	46.9
77.5°	60.9	54.9	50.7	44.8	43.9	42.6	36.7	32.2	28.7	25.7	22.0
80°	32.2	29.4	25.7	22.0	20.5	18.4	15.5	13.2	11.0	8.7	7.3
82.5°	13.9	11.7	9.6	8.0	7.3	6.5	5.2	4.5	3.7	3.7	2.9
85°	3.7	2.9	2.9	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.7	0.7	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°	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7
2.5°	1953.7	1954.4	1955.2	1955.2	1955.9	1956.7	1956.7	1957.4	1958.1	1958.8	1958.8
5°	1950.0	1950.0	1950.0	1950.7	1950.7	1950.7	1950.7	1952.2	1952.2	1952.9	1953.7
7.5°	1942.8	1942.8	1942.8	1942.8	1941.9	1942.8	1941.9	1941.9	1943.5	1944.2	1944.9
10°	1931.0	1930.2	1930.2	1929.5	1929.5	1929.5	1930.2	1931.0	1931.7	1932.5	1934.7
12.5°	1912.5	1911.9	1911.9	1911.2	1911.2	1911.9	1912.5	1914.1	1917.0	1918.5	1921.5
15°	1883.2	1882.5	1883.2	1884.1	1885.5	1887.7	1889.9	1892.1	1896.5	1900.2	1903.8
17.5°	1840.7	1841.4	1842.1	1843.7	1845.9	1848.9	1854.7	1860.6	1865.6	1871.5	1877.3
20°	1782.0	1785.0	1785.7	1790.8	1792.3	1798.9	1805.5	1814.3	1822.4	1829.7	1837.9
22.5°	1711.6	1713.9	1716.7	1722.6	1726.3	1735.1	1743.2	1753.3	1762.3	1771.8	1783.6
25°	1631.6	1632.4	1641.2	1641.2	1650.0	1657.3	1666.8	1677.8	1691.0	1703.5	1711.6
27.5°	1540.8	1544.3	1550.9	1553.8	1560.5	1572.2	1580.2	1593.4	1606.7	1617.7	1626.5
30°	1445.2	1448.2	1459.2	1460.7	1465.9	1476.2	1487.1	1499.6	1509.8	1522.3	1530.4
32.5°	1344.7	1352.9	1359.4	1364.6	1366.1	1381.5	1387.4	1396.1	1407.8	1420.3	1428.5
35°	1247.2	1250.9	1260.4	1263.4	1267.8	1276.6	1288.3	1295.6	1301.5	1309.5	1319.2
37.5°	1143.8	1154.8	1157.0	1165.8	1167.2	1175.3	1181.2	1190.0	1197.2	1204.7	1206.2
40°	1047.6	1051.3	1059.3	1061.5	1063.1	1074.1	1081.5	1083.5	1087.3	1093.9	1102.6
42.5°	950.1	953.7	962.5	960.4	967.0	972.0	975.7	984.6	988.2	990.4	990.4
45°	853.9	855.5	861.3	864.2	867.9	870.9	877.4	881.9	883.3	889.9	892.1
47.5°	762.2	763.7	768.1	773.3	771.9	775.4	782.8	785.1	785.8	790.2	792.3
50°	672.1	675.6	681.5	680.1	684.6	686.6	693.3	694.7	694.7	695.6	696.3
52.5°	587.7	590.6	592.0	593.5	595.8	599.4	602.3	601.0	603.8	606.8	604.5
55°	504.0	506.2	509.9	511.3	511.3	512.2	510.6	517.2	514.2	513.5	514.2
57.5°	427.6	424.8	424.1	427.6	429.2	428.4	426.3	429.2	429.2	427.6	425.6
60°	353.6	351.4	350.7	351.4	348.5	346.3	347.8	346.3	342.6	341.1	341.9
62.5°	286.1	283.9	278.1	278.1	276.6	275.9	270.0	270.7	267.7	263.5	264.9
65°	223.8	217.9	215.0	214.2	209.0	204.7	203.2	198.0	193.7	192.9	193.7
67.5°	167.9	161.4	156.2	154.1	151.2	147.5	142.4	137.9	139.5	138.6	141.5
70°	116.7	112.3	107.1	103.4	105.0	100.5	97.5	97.5	98.3	99.1	100.5
72.5°	77.8	71.9	69.7	67.5	66.0	63.1	64.6	64.6	63.9	64.6	63.1
75°	43.9	41.1	38.9	38.1	36.7	36.7	36.7	36.7	35.9	35.2	35.2
77.5°	19.7	18.4	17.7	16.9	16.9	16.9	16.2	15.5	15.5	15.5	14.6
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	2.9	2.9	3.7	3.7	3.7	2.9	3.7	3.7	2.9	2.9	3.7
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7	0.0	0.7	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: P858084

CATALOG NUMBER: LX4C40D010 EX4C409030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7	1953.7
2.5°	1959.6	1960.3	1960.3	1960.3	1961.1	1961.1	1961.1	1961.1
5°	1954.4	1955.2	1955.2	1955.2	1955.9	1955.9	1955.9	1955.9
7.5°	1945.7	1946.4	1946.4	1947.1	1947.1	1947.8	1947.8	1948.7
10°	1935.4	1936.9	1937.7	1938.4	1939.0	1939.7	1939.7	1940.5
12.5°	1924.4	1925.8	1926.6	1928.0	1929.5	1930.2	1931.0	1931.7
15°	1908.3	1911.2	1912.5	1913.5	1916.3	1917.7	1918.5	1919.3
17.5°	1882.5	1888.3	1890.6	1892.1	1895.0	1898.0	1900.2	1900.8
20°	1845.9	1852.4	1855.4	1859.1	1863.5	1867.2	1868.6	1870.1
22.5°	1794.5	1801.8	1806.2	1810.7	1814.3	1817.9	1823.8	1821.7
25°	1721.1	1733.6	1738.8	1740.9	1749.1	1753.3	1756.3	1753.3
27.5°	1639.0	1646.3	1650.7	1655.8	1661.7	1666.1	1667.6	1672.0
30°	1539.9	1552.5	1551.7	1556.8	1564.1	1568.5	1569.9	1573.7
32.5°	1437.2	1443.0	1447.5	1446.8	1449.7	1457.7	1454.9	1461.4
35°	1328.0	1328.7	1336.0	1335.3	1341.2	1341.2	1341.2	1345.5
37.5°	1211.3	1220.0	1216.5	1225.2	1222.3	1224.4	1224.4	1225.9
40°	1104.9	1107.7	1107.7	1110.7	1112.9	1110.7	1112.2	1115.9
42.5°	994.8	997.9	998.5	997.0	999.2	1005.9	1000.7	1005.1
45°	892.1	894.3	897.2	895.0	898.7	896.6	898.7	897.2
47.5°	795.3	794.5	793.8	799.6	794.5	795.3	798.3	793.1
50°	696.3	700.5	697.7	699.8	701.4	701.4	699.2	699.2
52.5°	608.2	607.5	605.2	607.5	605.9	606.8	608.2	606.8
55°	517.2	520.2	518.7	518.0	518.7	518.7	523.1	517.2
57.5°	427.6	426.3	428.4	433.6	428.4	432.1	434.3	435.1
60°	342.6	342.6	347.1	344.8	349.2	353.0	355.8	354.3
62.5°	261.2	264.9	266.4	267.0	271.5	274.4	274.4	273.6
65°	193.7	198.9	198.9	201.8	203.2	203.2	204.7	207.6
67.5°	143.0	143.0	143.7	145.3	144.5	144.5	146.0	146.7
70°	99.8	98.3	100.5	99.8	99.8	99.1	99.8	99.8
72.5°	63.1	63.1	63.9	63.1	61.6	62.4	62.4	63.9
75°	33.7	35.2	33.7	33.7	34.5	33.0	33.7	34.5
77.5°	13.9	13.9	13.9	13.9	13.9	13.2	13.2	13.2
80°	6.5	6.5	6.5	6.5	6.5	6.5	5.9	5.9
82.5°	2.9	3.7	2.9	3.7	2.9	2.9	2.9	2.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.7
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)