

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: P858054

Luminaire Tested: **LX4C40D010 EX4C409850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

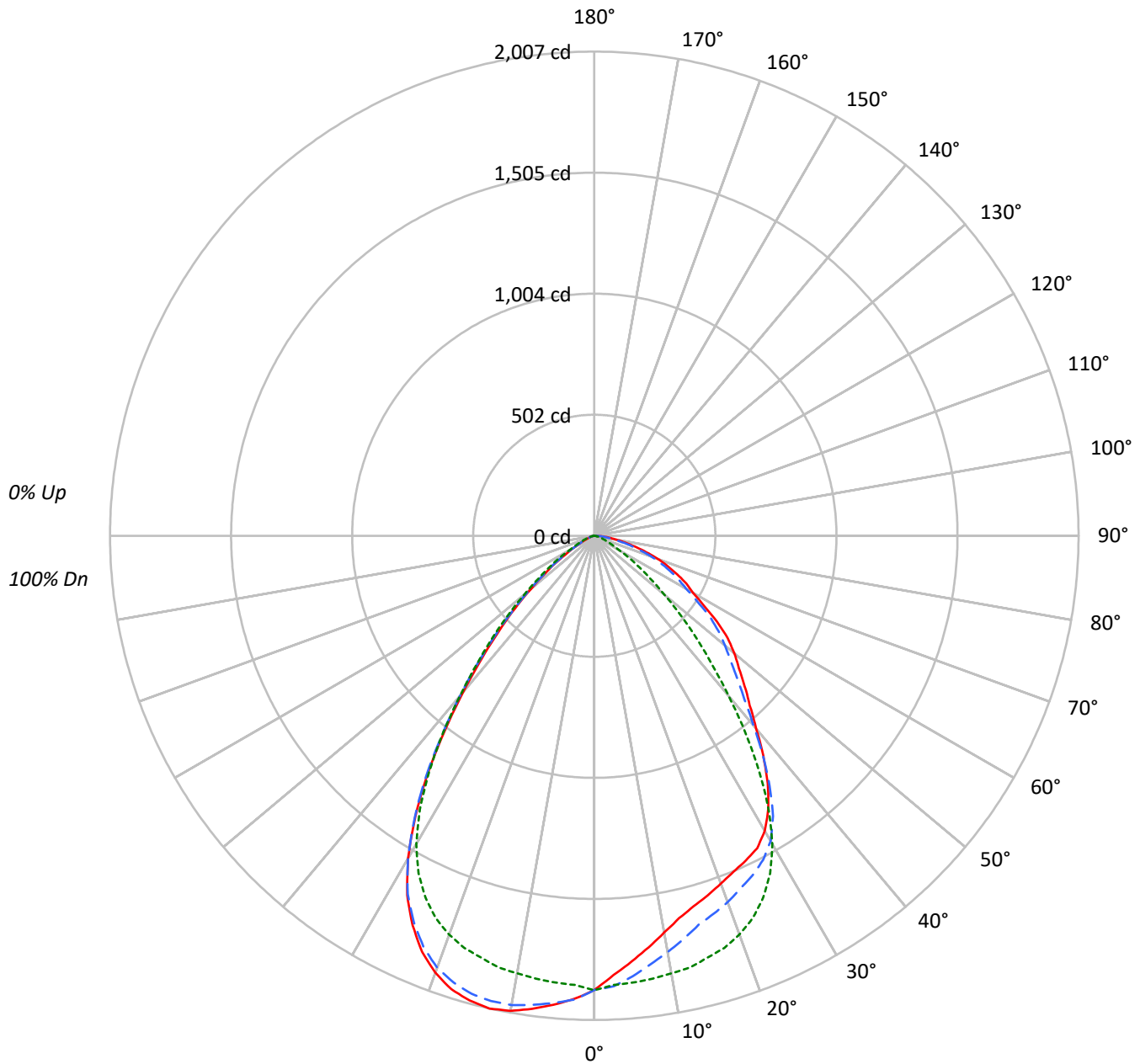
Lumens per Lamp: N/A
Luminaire Lumens: 3301.2 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	231370	231370	231370
5°	218479	229257	240627
10°	208293	229787	249460
15°	202177	230273	253726
20°	200526	230033	251932
25°	201338	224369	241462
30°	200376	209327	218959
35°	187815	178712	180542
40°	167350	138563	135452
45°	153066	103306	96965
50°	144721	72360	65403
55°	133097	48856	41060
60°	116269	28625	22654
65°	110058	18314	12703
70°	100253	13111	7831
75°	82972	9209	5791
80°	65230	5165	3396
85°	58216	3524	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	5.4
10°-20°	510.5	15.5
20°-30°	756.7	22.9
30°-40°	757.8	23.0
40°-50°	529.6	16.0
50°-60°	315.1	9.5
60°-70°	164.5	5.0
70°-80°	73.1	2.2
80°-90°	16.0	0.5
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°	1445.2	43.8
0°-40°	2202.9	66.7
0°-60°	3047.7	92.3
0°-90°	3301.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3301.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1883	1883	1883	1883	1883	
5°	1772	1832	1859	1944	1951	166
15°	1590	1670	1810	1966	1995	450
25°	1485	1553	1655	1769	1781	684
35°	1252	1267	1192	1214	1204	776
45°	881	837	595	575	558	684
55°	621	582	228	199	192	551
65°	379	347	63	46	44	375
75°	175	153	19	12	12	189
85°	41	32	2	2	0	46
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°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1822.6	1844.5	1822.6	1829.9	1859.0	1832.4	1846.9	1846.9	1839.7	1856.6	1868.7
5°	1771.6	1793.5	1771.6	1781.3	1812.9	1786.2	1803.2	1798.4	1800.8	1815.4	1832.4
7.5°	1720.7	1737.6	1718.2	1730.4	1759.5	1737.6	1752.2	1752.2	1754.7	1776.4	1791.2
10°	1669.7	1684.3	1669.7	1679.4	1711.0	1691.6	1701.3	1703.7	1711.0	1730.4	1752.2
12.5°	1623.6	1635.7	1621.2	1635.7	1662.4	1643.0	1655.2	1657.6	1664.9	1686.7	1711.0
15°	1589.6	1601.8	1587.2	1599.3	1623.6	1609.1	1618.7	1623.6	1628.4	1647.8	1669.7
17.5°	1563.0	1572.7	1560.5	1575.1	1594.4	1577.6	1592.1	1592.1	1599.3	1618.7	1643.0
20°	1533.8	1543.5	1533.8	1545.9	1567.9	1553.2	1565.4	1565.4	1572.7	1594.4	1616.4
22.5°	1507.1	1511.9	1507.1	1516.9	1538.6	1526.6	1533.8	1536.2	1543.5	1563.0	1582.4
25°	1485.3	1494.9	1490.1	1499.8	1514.4	1502.3	1509.5	1511.9	1519.3	1536.2	1553.2
27.5°	1461.0	1465.8	1461.0	1473.2	1485.3	1475.6	1482.9	1480.4	1485.3	1499.8	1514.4
30°	1412.5	1417.3	1417.3	1424.6	1434.4	1429.5	1436.8	1429.5	1434.4	1446.4	1461.0
32.5°	1342.1	1344.6	1346.9	1354.3	1361.5	1354.3	1359.1	1359.1	1359.1	1368.8	1378.5
35°	1252.3	1257.1	1254.8	1259.6	1266.8	1264.5	1264.5	1262.0	1257.1	1262.0	1266.8
37.5°	1150.3	1143.0	1143.0	1150.3	1155.3	1145.5	1150.3	1145.5	1145.5	1147.9	1147.9
40°	1043.5	1036.3	1043.5	1046.0	1048.4	1043.5	1041.2	1036.3	1029.0	1031.5	1026.6
42.5°	953.8	948.9	951.4	951.4	953.8	948.9	951.4	941.7	934.4	929.5	922.2
45°	881.0	873.7	881.0	876.1	876.1	873.7	871.2	866.4	856.7	849.5	837.3
47.5°	813.0	813.0	815.4	815.4	815.4	810.6	810.6	800.9	791.2	781.4	764.5
50°	757.2	752.4	762.0	762.0	754.8	752.4	754.8	742.6	735.4	723.2	706.2
52.5°	696.5	696.5	698.9	698.9	696.5	691.6	694.1	684.4	677.1	665.0	647.9
55°	621.4	616.5	623.7	623.7	621.4	618.9	621.4	614.0	606.7	597.1	582.4
57.5°	536.4	533.9	538.8	541.2	536.4	536.4	538.8	531.5	529.1	519.4	504.8
60°	473.2	470.8	475.7	478.2	473.2	473.2	473.2	463.5	458.6	448.9	439.3
62.5°	429.6	427.1	432.0	429.6	427.1	424.6	427.1	417.4	412.6	402.9	393.2
65°	378.6	381.0	383.4	383.4	381.0	378.6	378.6	373.8	368.9	359.2	347.1
67.5°	330.0	330.0	332.5	334.8	332.5	332.5	332.5	325.1	320.3	313.1	298.6
70°	279.1	276.6	284.0	284.0	279.1	281.5	279.1	276.6	271.8	262.1	250.0
72.5°	225.7	225.7	228.1	228.1	225.7	225.7	225.7	223.3	216.0	211.1	199.0
75°	174.8	174.8	177.1	179.6	174.8	174.8	177.1	172.3	167.5	160.2	152.8
77.5°	131.1	128.6	131.1	131.1	128.6	128.6	128.6	126.3	123.8	116.5	109.2
80°	92.2	89.8	92.2	92.2	92.2	89.8	89.8	87.3	87.3	82.5	75.3
82.5°	63.0	60.7	63.0	63.0	63.0	60.7	60.7	60.7	58.2	55.8	51.0
85°	41.3	38.8	38.8	41.3	38.8	38.8	38.8	38.8	36.5	34.0	31.6
87.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	17.0	17.0	17.0	14.5
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°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1859.0	1854.2	1868.7	1863.9	1866.2	1854.2	1873.6	1863.9	1876.0	1863.9	1888.2
5°	1827.4	1822.6	1844.5	1842.0	1844.5	1834.8	1856.6	1854.2	1868.7	1859.0	1885.7
7.5°	1793.5	1788.7	1812.9	1815.4	1820.2	1810.5	1839.7	1839.7	1854.2	1851.7	1880.9
10°	1754.7	1757.1	1781.3	1786.2	1796.0	1791.2	1817.7	1825.0	1844.5	1842.0	1878.5
12.5°	1718.2	1718.2	1749.9	1759.5	1766.7	1764.4	1796.0	1805.7	1827.4	1832.4	1866.2
15°	1681.9	1684.3	1713.4	1727.9	1737.6	1735.2	1769.2	1781.3	1808.0	1810.5	1851.7
17.5°	1652.7	1650.3	1681.9	1694.0	1708.6	1706.2	1742.5	1757.1	1783.8	1791.2	1829.9
20°	1628.4	1626.1	1655.2	1669.7	1679.4	1677.0	1713.4	1730.4	1754.7	1759.5	1798.4
22.5°	1599.3	1594.4	1623.6	1635.7	1645.4	1643.0	1674.6	1686.7	1711.0	1715.9	1752.2
25°	1565.4	1560.5	1587.2	1594.4	1601.8	1596.9	1623.6	1630.9	1650.3	1655.2	1691.6
27.5°	1526.6	1514.4	1536.2	1536.2	1541.1	1533.8	1553.2	1560.5	1577.6	1577.6	1611.5
30°	1465.8	1448.9	1461.0	1458.6	1461.0	1451.3	1463.4	1465.8	1478.1	1475.6	1499.8
32.5°	1380.9	1356.6	1363.9	1356.6	1349.4	1334.8	1349.4	1344.6	1354.3	1344.6	1366.3
35°	1264.5	1240.1	1237.7	1228.0	1220.8	1208.6	1208.6	1196.5	1198.9	1191.6	1206.3
37.5°	1138.2	1106.7	1101.8	1082.5	1070.3	1055.7	1055.7	1046.0	1033.8	1029.0	1041.2
40°	1014.4	980.5	968.3	936.8	924.6	910.0	900.4	888.3	883.4	864.0	873.7
42.5°	907.7	871.2	844.6	810.6	798.5	776.6	762.0	747.5	740.2	718.4	728.1
45°	817.9	774.2	745.1	701.4	684.4	660.2	638.2	621.4	604.3	594.6	589.7
47.5°	742.6	696.5	657.7	609.1	582.4	560.6	531.5	514.5	492.7	480.6	473.2
50°	679.6	628.6	584.9	529.1	502.4	478.2	444.1	417.4	398.1	378.6	373.8
52.5°	623.7	570.4	521.8	458.6	427.1	398.1	361.6	332.5	315.5	293.7	291.2
55°	558.1	512.1	458.6	393.2	361.6	332.5	293.7	264.6	242.7	228.1	223.3
57.5°	487.9	444.1	393.2	327.6	296.1	264.6	228.1	201.4	182.0	169.9	167.5
60°	422.3	381.0	332.5	267.0	235.3	208.8	169.9	143.2	126.3	116.5	111.6
62.5°	373.8	334.8	288.8	228.1	199.0	172.3	136.0	111.6	97.0	87.3	82.5
65°	327.6	288.8	247.5	191.7	167.5	143.2	109.2	87.3	72.8	63.0	58.2
67.5°	279.1	245.1	206.3	160.2	136.0	116.5	87.3	68.0	55.8	48.5	43.7
70°	230.5	199.0	167.5	128.6	111.6	92.2	68.0	53.4	41.3	36.5	31.6
72.5°	182.0	157.7	131.1	99.5	85.0	72.8	53.4	38.8	31.6	26.8	21.8
75°	136.0	119.0	97.0	75.3	63.0	53.4	38.8	29.1	24.3	19.4	17.0
77.5°	97.0	82.5	68.0	51.0	46.1	38.8	26.8	21.8	17.0	12.2	9.7
80°	65.5	58.2	46.1	36.5	29.1	26.8	19.4	14.5	9.7	7.3	7.3
82.5°	43.7	36.5	29.1	21.8	19.4	17.0	12.2	9.7	7.3	4.8	4.8
85°	26.8	21.8	17.0	12.2	12.2	9.7	7.3	4.8	2.5	2.5	2.5
87.5°	12.2	9.7	7.3	4.8	4.8	2.5	2.5	2.5	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°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1907.5	1893.0	1883.3	1895.4	1900.2	1893.0	1900.2	1912.4	1924.6	1927.0	1893.0
5°	1910.0	1895.4	1890.5	1905.1	1907.5	1905.1	1912.4	1929.5	1944.0	1948.8	1914.9
7.5°	1910.0	1900.2	1897.9	1914.9	1917.2	1914.9	1927.0	1946.4	1960.9	1970.7	1936.7
10°	1905.1	1900.2	1902.7	1917.2	1922.1	1922.1	1939.2	1960.9	1975.5	1985.2	1951.2
12.5°	1897.9	1897.9	1897.9	1914.9	1919.7	1922.1	1936.7	1965.8	1975.5	1990.0	1956.1
15°	1885.7	1885.7	1885.7	1902.7	1910.0	1910.0	1927.0	1953.7	1965.8	1980.4	1946.4
17.5°	1863.9	1863.9	1866.2	1880.9	1888.2	1888.2	1905.1	1934.3	1941.5	1958.5	1924.6
20°	1832.4	1832.4	1834.8	1849.3	1856.6	1851.7	1873.6	1897.9	1905.1	1919.7	1885.7
22.5°	1786.2	1786.2	1786.2	1800.8	1805.7	1803.2	1825.0	1846.9	1846.9	1866.2	1829.9
25°	1718.2	1723.1	1718.2	1732.8	1737.6	1735.2	1754.7	1774.1	1769.2	1791.2	1754.7
27.5°	1635.7	1633.3	1633.3	1645.4	1645.4	1643.0	1657.6	1679.4	1674.6	1689.1	1655.2
30°	1521.7	1528.9	1516.9	1533.8	1526.6	1521.7	1531.4	1550.8	1543.5	1555.6	1528.9
32.5°	1390.6	1380.9	1380.9	1380.9	1385.8	1373.6	1383.4	1393.1	1385.8	1397.9	1368.8
35°	1218.3	1220.8	1213.5	1215.9	1218.3	1203.8	1213.5	1223.1	1213.5	1220.8	1194.0
37.5°	1046.0	1048.4	1031.5	1041.2	1031.5	1026.6	1036.3	1041.2	1031.5	1038.7	1009.5
40°	873.7	868.9	866.4	866.4	868.9	856.7	864.0	871.2	864.0	868.9	842.2
42.5°	723.2	720.9	716.0	718.4	711.1	708.7	711.1	718.4	711.1	716.0	696.5
45°	592.1	587.3	580.1	582.4	582.4	570.4	577.6	582.4	575.2	577.6	560.6
47.5°	470.8	463.5	463.5	461.1	461.1	456.3	463.5	461.1	453.8	458.6	441.7
50°	366.5	361.6	361.6	361.6	361.6	354.3	356.8	361.6	354.3	354.3	344.6
52.5°	286.3	279.1	274.3	274.3	274.3	271.8	271.8	274.3	267.0	267.0	264.6
55°	216.0	213.6	206.3	206.3	206.3	199.0	201.4	201.4	199.0	199.0	191.7
57.5°	160.2	152.8	148.0	148.0	143.2	143.2	140.8	143.2	138.3	138.3	133.5
60°	106.7	101.9	99.5	97.0	97.0	94.7	97.0	94.7	94.7	92.2	89.8
62.5°	77.7	72.8	68.0	68.0	68.0	65.5	65.5	65.5	65.5	65.5	63.0
65°	55.8	51.0	51.0	48.5	48.5	46.1	46.1	46.1	46.1	46.1	43.7
67.5°	38.8	36.5	34.0	34.0	34.0	34.0	34.0	34.0	31.6	31.6	31.6
70°	29.1	26.8	24.3	24.3	24.3	24.3	24.3	21.8	24.3	24.3	21.8
72.5°	19.4	19.4	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
75°	14.5	14.5	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	9.7	9.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	7.3	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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: P858054

CATALOG NUMBER: LX4C40D010 EX4C409850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1929.5	1927.0	1922.1	1929.5	1910.0	1902.7	1900.2	1922.1
5°	1956.1	1951.2	1951.2	1958.5	1936.7	1931.8	1927.0	1951.2
7.5°	1980.4	1975.5	1975.5	1982.8	1963.4	1958.5	1953.7	1978.0
10°	1994.9	1994.9	1994.9	1999.7	1982.8	1978.0	1975.5	1999.7
12.5°	2002.2	2002.2	1999.7	2009.5	1987.7	1987.7	1982.8	2007.0
15°	1992.5	1992.5	1992.5	1999.7	1980.4	1975.5	1975.5	1994.9
17.5°	1968.3	1968.3	1965.8	1973.1	1951.2	1951.2	1948.8	1970.7
20°	1931.8	1931.8	1927.0	1936.7	1914.9	1907.5	1905.1	1927.0
22.5°	1873.6	1871.1	1868.7	1873.6	1854.2	1849.3	1846.9	1866.2
25°	1798.4	1796.0	1791.2	1796.0	1774.1	1766.7	1766.7	1781.3
27.5°	1691.6	1691.6	1684.3	1691.6	1667.3	1664.9	1662.4	1679.4
30°	1560.5	1550.8	1545.9	1555.6	1531.4	1531.4	1526.6	1543.5
32.5°	1397.9	1388.2	1385.8	1390.6	1368.8	1361.5	1371.2	1380.9
35°	1211.1	1213.5	1203.8	1203.8	1184.3	1186.7	1189.2	1203.8
37.5°	1031.5	1026.6	1024.2	1026.6	1012.0	1007.2	1002.3	1016.9
40°	864.0	851.9	849.5	849.5	837.3	834.9	837.3	844.6
42.5°	706.2	703.9	694.1	698.9	686.8	691.6	689.2	689.2
45°	570.4	572.7	563.0	570.4	560.6	553.3	553.3	558.1
47.5°	451.4	451.4	448.9	448.9	441.7	444.1	439.3	446.6
50°	349.5	349.5	344.6	347.1	342.2	342.2	339.8	342.2
52.5°	267.0	264.6	264.6	262.1	257.3	259.8	262.1	257.3
55°	194.1	196.5	191.7	194.1	189.3	191.7	189.3	191.7
57.5°	133.5	136.0	131.1	136.0	131.1	133.5	131.1	131.1
60°	92.2	92.2	89.8	92.2	89.8	89.8	87.3	92.2
62.5°	63.0	63.0	63.0	63.0	63.0	60.7	63.0	63.0
65°	46.1	43.7	43.7	43.7	43.7	43.7	43.7	43.7
67.5°	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
70°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
72.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
75°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	0.0	2.5	0.0	0.0	0.0
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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)