

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: P858255

Luminaire Tested: **LX4C45D010 EX4C459840 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858255
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: LX4C45D010 EX4C459840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

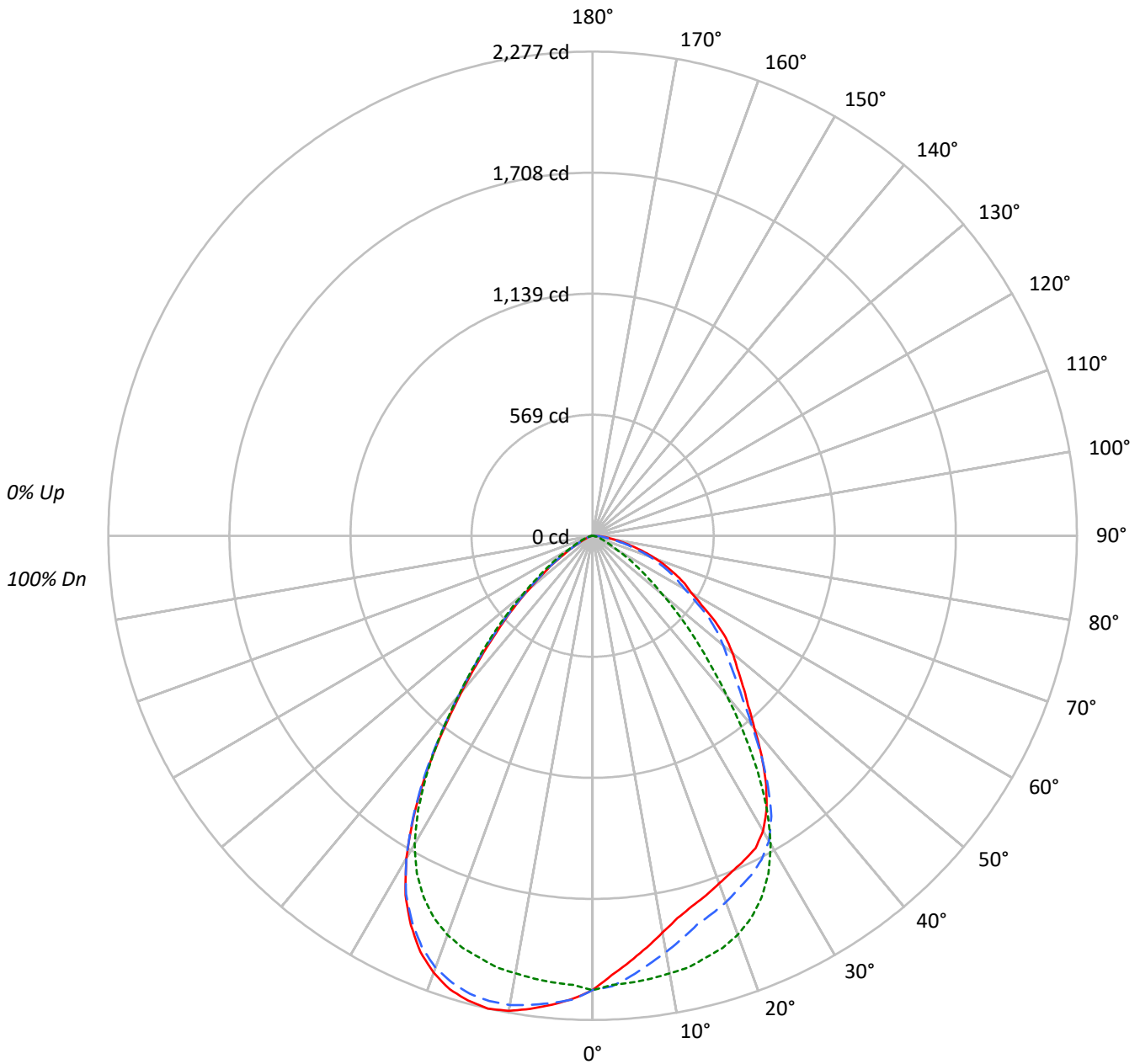
Lumens per Lamp: N/A
Luminaire Lumens: 3745.3 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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

TEST NUMBER: P858255

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBSWNH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	262489	262489	262489
5°	247866	260100	273000
10°	236311	260700	283030
15°	229382	261243	287850
20°	227497	260992	285819
25°	228408	254543	273954
30°	227329	237486	248409
35°	213071	202768	204823
40°	189867	157214	153686
45°	173654	117206	110013
50°	164177	82108	74214
55°	150981	55432	46586
60°	131895	32458	25701
65°	124883	20785	14419
70°	113758	14871	8908
75°	94079	10443	6550
80°	74003	5872	3891
85°	65969	3947	0



TEST NUMBER: P858255

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	5.4
10°-20°	579.2	15.5
20°-30°	858.5	22.9
30°-40°	859.7	23.0
40°-50°	600.8	16.0
50°-60°	357.5	9.5
60°-70°	186.6	5.0
70°-80°	83.0	2.2
80°-90°	18.1	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°	1639.6	43.8
0°-40°	2499.3	66.7
0°-60°	3457.6	92.3
0°-90°	3745.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3745.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2137	2137	2137	2137	2137	
5°	2010	2079	2109	2206	2214	188
15°	1804	1894	2054	2230	2263	511
25°	1685	1762	1878	2007	2021	776
35°	1421	1437	1352	1377	1366	881
45°	1000	950	675	653	633	776
55°	705	661	259	226	218	625
65°	430	394	72	52	50	425
75°	198	173	22	14	14	214
85°	47	36	3	3	0	52
90°	0	0	0	0	0	



TEST NUMBER: P858255

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6
2.5°	2067.8	2092.7	2067.8	2076.1	2109.1	2078.8	2095.3	2095.3	2087.1	2106.3	2120.1
5°	2009.9	2034.8	2009.9	2021.0	2056.8	2026.5	2045.7	2040.3	2043.1	2059.6	2078.8
7.5°	1952.2	1971.4	1949.3	1963.2	1996.3	1971.4	1987.9	1987.9	1990.7	2015.4	2032.1
10°	1894.3	1910.8	1894.3	1905.4	1941.1	1919.1	1930.2	1932.9	1941.1	1963.2	1987.9
12.5°	1842.0	1855.8	1839.3	1855.8	1886.0	1864.0	1877.8	1880.5	1888.8	1913.7	1941.1
15°	1803.5	1817.3	1800.8	1814.4	1842.0	1825.5	1836.5	1842.0	1847.5	1869.5	1894.3
17.5°	1773.2	1784.3	1770.5	1787.0	1809.0	1789.7	1806.2	1806.2	1814.4	1836.5	1864.0
20°	1740.1	1751.1	1740.1	1753.9	1778.8	1762.3	1775.9	1775.9	1784.3	1809.0	1833.8
22.5°	1709.9	1715.4	1709.9	1720.9	1745.6	1731.9	1740.1	1742.9	1751.1	1773.2	1795.3
25°	1685.0	1696.1	1690.6	1701.5	1718.1	1704.4	1712.6	1715.4	1723.6	1742.9	1762.3
27.5°	1657.6	1663.0	1657.6	1671.3	1685.0	1674.1	1682.4	1679.5	1685.0	1701.5	1718.1
30°	1602.5	1608.0	1608.0	1616.2	1627.3	1621.8	1630.0	1621.8	1627.3	1641.0	1657.6
32.5°	1522.6	1525.4	1528.1	1536.5	1544.7	1536.5	1541.9	1541.9	1541.9	1553.0	1563.9
35°	1420.7	1426.3	1423.6	1429.0	1437.2	1434.5	1434.5	1431.7	1426.3	1431.7	1437.2
37.5°	1305.2	1296.9	1296.9	1305.2	1310.6	1299.6	1305.2	1299.6	1299.6	1302.3	1302.3
40°	1183.9	1175.8	1183.9	1186.7	1189.4	1183.9	1181.2	1175.8	1167.4	1170.2	1164.7
42.5°	1082.1	1076.5	1079.4	1079.4	1082.1	1076.5	1079.4	1068.3	1060.0	1054.5	1046.3
45°	999.5	991.3	999.5	993.9	993.9	991.3	988.5	983.0	971.9	963.7	949.9
47.5°	922.4	922.4	925.1	925.1	925.1	919.6	919.6	908.6	897.5	886.6	867.3
50°	859.0	853.6	864.5	864.5	856.3	853.6	856.3	842.5	834.3	820.5	801.2
52.5°	790.2	790.2	793.0	793.0	790.2	784.6	787.5	776.4	768.1	754.4	735.2
55°	704.9	699.4	707.6	707.6	704.9	702.1	704.9	696.6	688.4	677.4	660.8
57.5°	608.5	605.8	611.2	614.1	608.5	608.5	611.2	603.0	600.2	589.2	572.7
60°	536.8	534.2	539.7	542.4	536.8	536.8	536.8	525.9	520.3	509.4	498.3
62.5°	487.3	484.7	490.1	487.3	484.7	481.8	484.7	473.6	468.1	457.1	446.0
65°	429.6	432.3	435.1	435.1	432.3	429.6	429.6	424.1	418.6	407.5	393.7
67.5°	374.4	374.4	377.2	379.9	377.2	377.2	377.2	368.9	363.4	355.2	338.7
70°	316.7	313.9	322.2	322.2	316.7	319.3	316.7	313.9	308.4	297.4	283.7
72.5°	256.0	256.0	258.8	258.8	256.0	256.0	256.0	253.3	245.1	239.5	225.8
75°	198.2	198.2	201.0	203.8	198.2	198.2	201.0	195.5	189.9	181.7	173.4
77.5°	148.7	145.9	148.7	148.7	145.9	145.9	145.9	143.2	140.4	132.1	123.9
80°	104.6	101.9	104.6	104.6	104.6	101.9	101.9	99.1	99.1	93.5	85.3
82.5°	71.5	68.8	71.5	71.5	71.5	68.8	68.8	68.8	66.1	63.3	57.9
85°	46.8	44.1	44.1	46.8	44.1	44.1	44.1	44.1	41.4	38.5	35.8
87.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	19.4	19.4	19.4	16.5
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: P858255

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6
2.5°	2109.1	2103.6	2120.1	2114.6	2117.4	2103.6	2125.6	2114.6	2128.3	2114.6	2142.1
5°	2073.3	2067.8	2092.7	2089.8	2092.7	2081.6	2106.3	2103.6	2120.1	2109.1	2139.4
7.5°	2034.8	2029.2	2056.8	2059.6	2065.1	2054.0	2087.1	2087.1	2103.6	2100.9	2133.8
10°	1990.7	1993.4	2021.0	2026.5	2037.5	2032.1	2062.2	2070.6	2092.7	2089.8	2131.2
12.5°	1949.3	1949.3	1985.2	1996.3	2004.5	2001.7	2037.5	2048.6	2073.3	2078.8	2117.4
15°	1908.1	1910.8	1943.9	1960.4	1971.4	1968.7	2007.2	2021.0	2051.3	2054.0	2100.9
17.5°	1875.0	1872.3	1908.1	1921.9	1938.4	1935.7	1976.9	1993.4	2023.7	2032.1	2076.1
20°	1847.5	1844.8	1877.8	1894.3	1905.4	1902.6	1943.9	1963.2	1990.7	1996.3	2040.3
22.5°	1814.4	1809.0	1842.0	1855.8	1866.8	1864.0	1899.9	1913.7	1941.1	1946.7	1987.9
25°	1775.9	1770.5	1800.8	1809.0	1817.3	1811.8	1842.0	1850.3	1872.3	1877.8	1919.1
27.5°	1731.9	1718.1	1742.9	1742.9	1748.4	1740.1	1762.3	1770.5	1789.7	1789.7	1828.2
30°	1663.0	1643.8	1657.6	1654.8	1657.6	1646.5	1660.3	1663.0	1676.8	1674.1	1701.5
32.5°	1566.6	1539.1	1547.4	1539.1	1530.9	1514.4	1530.9	1525.4	1536.5	1525.4	1550.1
35°	1434.5	1407.0	1404.2	1393.2	1385.0	1371.1	1371.1	1357.5	1360.2	1352.0	1368.5
37.5°	1291.3	1255.6	1250.0	1228.1	1214.3	1197.7	1197.7	1186.7	1172.9	1167.4	1181.2
40°	1150.9	1112.4	1098.6	1062.8	1049.0	1032.5	1021.5	1007.8	1002.2	980.3	991.3
42.5°	1029.8	988.5	958.3	919.6	905.9	881.0	864.5	848.0	839.8	815.0	826.0
45°	927.9	878.4	845.4	795.7	776.4	749.0	724.1	704.9	685.6	674.6	669.1
47.5°	842.5	790.2	746.1	691.1	660.8	636.1	603.0	583.7	558.9	545.2	536.8
50°	771.0	713.1	663.5	600.2	570.0	542.4	503.8	473.6	451.6	429.6	424.1
52.5°	707.6	647.0	592.0	520.3	484.7	451.6	410.3	377.2	357.9	333.2	330.4
55°	633.2	581.0	520.3	446.0	410.3	377.2	333.2	300.2	275.4	258.8	253.3
57.5°	553.5	503.8	446.0	371.7	335.9	300.2	258.8	228.5	206.4	192.8	189.9
60°	479.1	432.3	377.2	302.8	267.0	236.8	192.8	162.5	143.2	132.1	126.6
62.5°	424.1	379.9	327.7	258.8	225.8	195.5	154.3	126.6	110.1	99.1	93.5
65°	371.7	327.7	280.8	217.5	189.9	162.5	123.9	99.1	82.6	71.5	66.1
67.5°	316.7	278.1	234.0	181.7	154.3	132.1	99.1	77.0	63.3	55.0	49.6
70°	261.5	225.8	189.9	145.9	126.6	104.6	77.0	60.5	46.8	41.4	35.8
72.5°	206.4	179.0	148.7	112.9	96.4	82.6	60.5	44.1	35.8	30.3	24.8
75°	154.3	134.9	110.1	85.3	71.5	60.5	44.1	33.0	27.6	22.0	19.4
77.5°	110.1	93.5	77.0	57.9	52.3	44.1	30.3	24.8	19.4	13.8	11.0
80°	74.4	66.1	52.3	41.4	33.0	30.3	22.0	16.5	11.0	8.3	8.3
82.5°	49.6	41.4	33.0	24.8	22.0	19.4	13.8	11.0	8.3	5.5	5.5
85°	30.3	24.8	19.4	13.8	13.8	11.0	8.3	5.5	2.8	2.8	2.8
87.5°	13.8	11.0	8.3	5.5	5.5	2.8	2.8	2.8	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: P858255

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6
2.5°	2164.2	2147.7	2136.6	2150.3	2155.9	2147.7	2155.9	2169.7	2183.5	2186.2	2147.7
5°	2166.9	2150.3	2144.8	2161.4	2164.2	2161.4	2169.7	2189.0	2205.5	2211.0	2172.5
7.5°	2166.9	2155.9	2153.2	2172.5	2175.1	2172.5	2186.2	2208.2	2224.7	2235.7	2197.2
10°	2161.4	2155.9	2158.6	2175.1	2180.7	2180.7	2200.0	2224.7	2241.2	2252.3	2213.7
12.5°	2153.2	2153.2	2153.2	2172.5	2178.0	2180.7	2197.2	2230.2	2241.2	2257.7	2219.2
15°	2139.4	2139.4	2139.4	2158.6	2166.9	2166.9	2186.2	2216.5	2230.2	2246.7	2208.2
17.5°	2114.6	2114.6	2117.4	2133.8	2142.1	2142.1	2161.4	2194.5	2202.7	2222.0	2183.5
20°	2078.8	2078.8	2081.6	2098.1	2106.3	2100.9	2125.6	2153.2	2161.4	2178.0	2139.4
22.5°	2026.5	2026.5	2026.5	2043.1	2048.6	2045.7	2070.6	2095.3	2095.3	2117.4	2076.1
25°	1949.3	1954.9	1949.3	1965.9	1971.4	1968.7	1990.7	2012.8	2007.2	2032.1	1990.7
27.5°	1855.8	1853.0	1853.0	1866.8	1866.8	1864.0	1880.5	1905.4	1899.9	1916.4	1877.8
30°	1726.4	1734.6	1720.9	1740.1	1731.9	1726.4	1737.4	1759.4	1751.1	1764.9	1734.6
32.5°	1577.7	1566.6	1566.6	1566.6	1572.1	1558.4	1569.5	1580.4	1572.1	1586.0	1553.0
35°	1382.2	1385.0	1376.7	1379.5	1382.2	1365.7	1376.7	1387.7	1376.7	1385.0	1354.6
37.5°	1186.7	1189.4	1170.2	1181.2	1170.2	1164.7	1175.8	1181.2	1170.2	1178.4	1145.4
40°	991.3	985.7	983.0	983.0	985.7	971.9	980.3	988.5	980.3	985.7	955.4
42.5°	820.5	817.8	812.3	815.0	806.7	804.0	806.7	815.0	806.7	812.3	790.2
45°	671.7	666.3	658.1	660.8	660.8	647.0	655.3	660.8	652.6	655.3	636.1
47.5°	534.2	525.9	525.9	523.2	523.2	517.7	525.9	523.2	514.8	520.3	501.2
50°	415.7	410.3	410.3	410.3	410.3	401.9	404.8	410.3	401.9	401.9	390.9
52.5°	324.9	316.7	311.1	311.1	311.1	308.4	308.4	311.1	302.8	302.8	300.2
55°	245.1	242.3	234.0	234.0	234.0	225.8	228.5	228.5	225.8	225.8	217.5
57.5°	181.7	173.4	167.9	167.9	162.5	162.5	159.7	162.5	156.9	156.9	151.4
60°	121.1	115.6	112.9	110.1	110.1	107.4	110.1	107.4	107.4	104.6	101.9
62.5°	88.1	82.6	77.0	77.0	77.0	74.4	74.4	74.4	74.4	74.4	71.5
65°	63.3	57.9	57.9	55.0	55.0	52.3	52.3	52.3	52.3	52.3	49.6
67.5°	44.1	41.4	38.5	38.5	38.5	38.5	38.5	38.5	35.8	35.8	35.8
70°	33.0	30.3	27.6	27.6	27.6	27.6	27.6	24.8	27.6	27.6	24.8
72.5°	22.0	22.0	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75°	16.5	16.5	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	11.0	11.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	8.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	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: P858255

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6	2136.6
2.5°	2189.0	2186.2	2180.7	2189.0	2166.9	2158.6	2155.9	2180.7
5°	2219.2	2213.7	2213.7	2222.0	2197.2	2191.7	2186.2	2213.7
7.5°	2246.7	2241.2	2241.2	2249.5	2227.6	2222.0	2216.5	2244.1
10°	2263.2	2263.2	2263.2	2268.8	2249.5	2244.1	2241.2	2268.8
12.5°	2271.5	2271.5	2268.8	2279.7	2255.0	2255.0	2249.5	2277.1
15°	2260.6	2260.6	2260.6	2268.8	2246.7	2241.2	2241.2	2263.2
17.5°	2233.0	2233.0	2230.2	2238.5	2213.7	2213.7	2211.0	2235.7
20°	2191.7	2191.7	2186.2	2197.2	2172.5	2164.2	2161.4	2186.2
22.5°	2125.6	2122.8	2120.1	2125.6	2103.6	2098.1	2095.3	2117.4
25°	2040.3	2037.5	2032.1	2037.5	2012.8	2004.5	2004.5	2021.0
27.5°	1919.1	1919.1	1910.8	1919.1	1891.6	1888.8	1886.0	1905.4
30°	1770.5	1759.4	1753.9	1764.9	1737.4	1737.4	1731.9	1751.1
32.5°	1586.0	1575.0	1572.1	1577.7	1553.0	1544.7	1555.6	1566.6
35°	1374.0	1376.7	1365.7	1365.7	1343.7	1346.4	1349.2	1365.7
37.5°	1170.2	1164.7	1161.9	1164.7	1148.2	1142.7	1137.1	1153.7
40°	980.3	966.5	963.7	963.7	949.9	947.2	949.9	958.3
42.5°	801.2	798.5	787.5	793.0	779.2	784.6	782.0	782.0
45°	647.0	649.7	638.8	647.0	636.1	627.7	627.7	633.2
47.5°	512.1	512.1	509.4	509.4	501.2	503.8	498.3	506.6
50°	396.5	396.5	390.9	393.7	388.3	388.3	385.4	388.3
52.5°	302.8	300.2	300.2	297.4	291.9	294.6	297.4	291.9
55°	220.3	223.0	217.5	220.3	214.8	217.5	214.8	217.5
57.5°	151.4	154.3	148.7	154.3	148.7	151.4	148.7	148.7
60°	104.6	104.6	101.9	104.6	101.9	101.9	99.1	104.6
62.5°	71.5	71.5	71.5	71.5	71.5	68.8	71.5	71.5
65°	52.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6
67.5°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
70°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
72.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	0.0	2.8	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)