

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P237891

Luminaire Tested: **4VRVT2-LD5-11-DR100-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-11-DR100-W-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
4FT FIXTURE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9958.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.58 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Semi-Direct

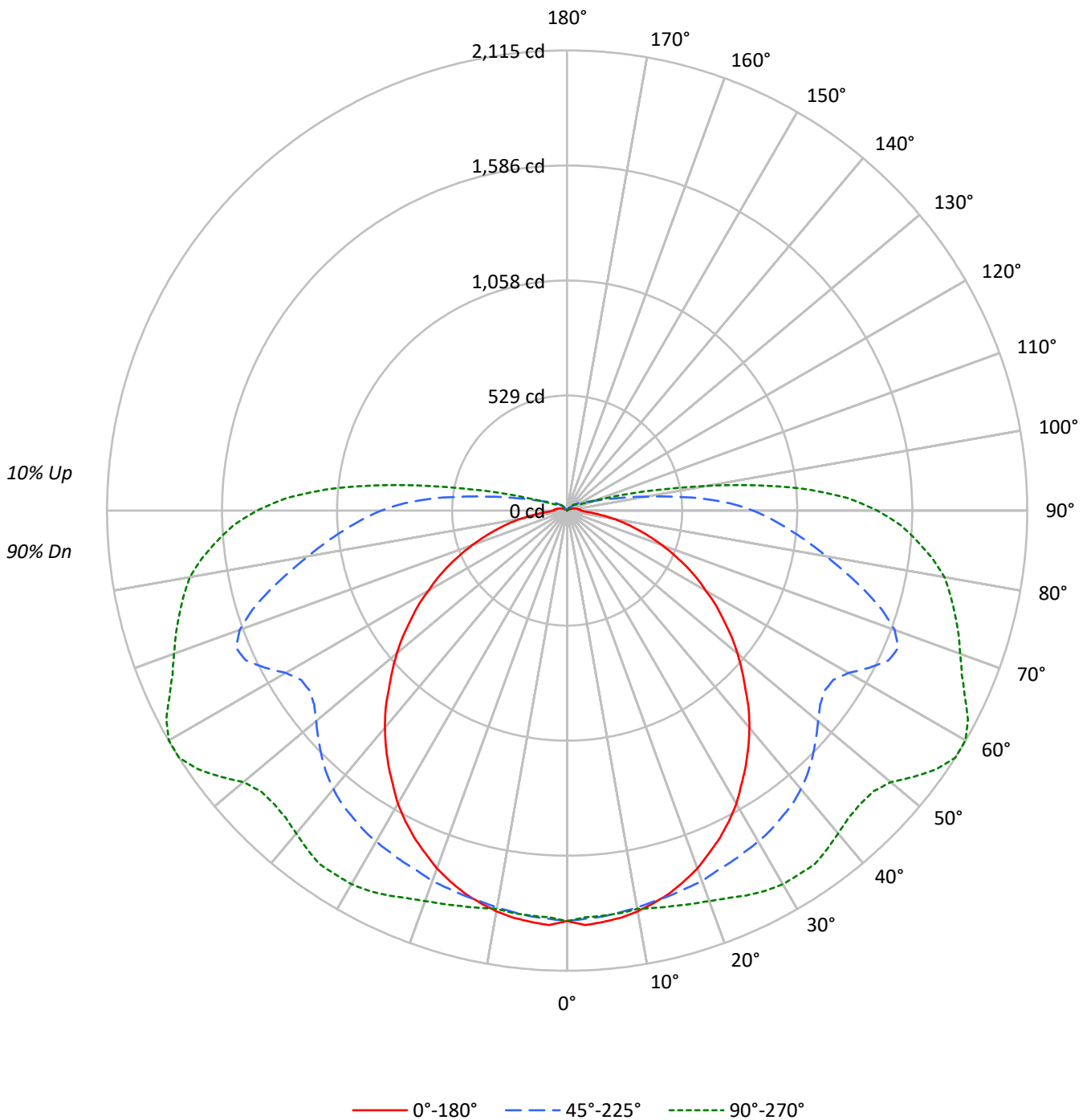
Input Watts (W): 82.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	101	94	88	83	97	91	85	80	85	80	76	79	75	72	74	71	68	65
2	90	79	71	63	86	77	69	62	71	64	59	66	61	56	62	57	53	50
3	81	68	58	50	77	66	57	49	61	53	47	57	50	45	53	47	43	40
4	73	59	49	41	70	57	48	40	53	45	39	50	43	37	46	40	35	33
5	67	52	42	35	64	51	41	34	47	39	33	44	37	31	41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28	40	32	27	37	31	26	23
7	57	42	33	26	55	41	32	25	38	30	24	36	29	24	34	27	23	20
8	53	38	29	23	51	37	28	22	35	27	22	33	26	21	31	25	20	18
9	49	35	26	20	47	34	26	20	32	24	19	30	23	19	28	22	18	16
10	46	32	24	18	44	31	23	18	30	22	17	28	21	17	26	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9745	9745	9745
5°	9808	9495	9419
10°	9744	9285	9210
15°	9636	9148	9242
20°	9484	9087	9363
25°	9289	9049	9628
30°	9070	9094	9920
35°	8781	9157	10146
40°	8504	9230	10209
45°	8136	9225	10443
50°	7842	9206	11166
55°	7484	9448	12643
60°	7112	10584	13846
65°	6769	12723	14378
70°	6315	14019	15161
75°	5789	14234	16417
80°	5263	14405	18123
85°	4520	15178	19910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.8
10°-20°	522.1	5.2
20°-30°	829.8	8.3
30°-40°	1072.6	10.8
40°-50°	1210.4	12.2
50°-60°	1326.9	13.3
60°-70°	1415.9	14.2
70°-80°	1327.3	13.3
80°-90°	1069.0	10.7
90°-100°	665.7	6.7
100°-110°	215.8	2.2
110°-120°	70.4	0.7
120°-130°	36.0	0.4
130°-140°	14.9	0.1
140°-150°	2.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1530.8	15.4
0°-40°	2603.4	26.1
0°-60°	5140.6	51.6
0°-90°	8952.9	89.9
90°-120°	951.9	9.6
90°-150°	1005.1	10.1
90°-180°	1005.0	10.1
0°-180°	9958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1898	1891	1873	1876	1869	180
15°	1821	1821	1831	1878	1882	513
25°	1660	1682	1783	1908	1951	764
35°	1431	1512	1720	1917	1984	895
45°	1158	1300	1596	1816	1906	896
55°	878	1065	1444	1919	2072	787
65°	601	843	1630	1974	2017	595
75°	333	816	1416	1712	1846	355
85°	111	558	1029	1457	1616	114
90°	64	417	855	1269	1426	36
95°	56	290	629	984	1114	44
105°	38	105	208	269	301	40
115°	18	47	94	84	72	19
125°	8	16	56	58	50	7
135°	3	0	22	34	33	3
145°	1	0	0	6	6	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P237891

CATALOG NUMBER: 4VRVT2-LD5-11-DR100-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1
2.5°	1907.0	1901.7	1897.8	1897.8	1897.8	1896.5	1896.5	1895.2	1892.6	1884.7	1878.2
5°	1897.8	1895.2	1891.3	1891.3	1891.3	1891.3	1891.3	1888.7	1883.4	1878.2	1873.0
7.5°	1887.4	1884.7	1879.5	1880.8	1876.9	1878.2	1876.9	1874.3	1873.0	1869.1	1862.5
10°	1870.4	1867.8	1862.5	1863.8	1861.2	1862.5	1862.5	1863.8	1861.2	1857.3	1852.1
12.5°	1846.8	1845.5	1842.9	1841.6	1844.2	1846.8	1848.2	1845.5	1842.9	1841.6	1840.3
15°	1820.7	1818.1	1815.5	1816.8	1820.7	1820.7	1824.6	1824.6	1824.6	1825.9	1831.2
17.5°	1786.7	1785.4	1782.8	1785.4	1788.0	1789.3	1794.6	1797.2	1798.5	1808.9	1820.7
20°	1750.1	1747.5	1744.9	1747.5	1751.4	1756.7	1761.9	1769.7	1781.5	1798.5	1811.6
22.5°	1704.4	1703.1	1701.8	1704.4	1710.9	1718.8	1727.9	1744.9	1763.2	1781.5	1793.3
25°	1659.9	1657.3	1656.0	1661.2	1674.3	1682.2	1693.9	1716.1	1737.1	1760.6	1782.8
27.5°	1610.3	1602.4	1609.0	1614.2	1631.2	1641.6	1656.0	1684.8	1708.3	1734.4	1768.4
30°	1555.4	1551.5	1551.5	1563.2	1585.4	1601.1	1618.1	1650.8	1678.2	1714.8	1756.7
32.5°	1491.3	1492.6	1495.3	1510.9	1541.0	1559.3	1573.7	1611.6	1646.9	1692.6	1741.0
35°	1431.2	1428.6	1435.1	1457.3	1491.3	1512.2	1531.8	1572.4	1616.8	1667.8	1720.1
37.5°	1368.5	1365.9	1375.0	1401.1	1437.7	1460.0	1482.2	1533.2	1584.1	1641.6	1700.5
40°	1303.1	1303.1	1313.6	1342.3	1382.8	1406.4	1432.5	1490.0	1546.2	1609.0	1671.7
42.5°	1235.2	1232.5	1245.6	1284.8	1330.6	1354.1	1385.5	1445.6	1509.6	1572.4	1637.7
45°	1158.0	1168.5	1181.6	1220.8	1267.8	1300.5	1337.1	1401.1	1466.5	1533.2	1595.9
47.5°	1090.1	1097.9	1116.2	1158.0	1212.9	1243.0	1282.2	1350.2	1420.8	1484.8	1551.5
50°	1022.1	1026.0	1050.9	1092.7	1150.2	1188.1	1226.0	1295.3	1364.5	1437.7	1505.7
52.5°	951.5	952.8	982.9	1023.4	1091.4	1129.3	1164.6	1237.8	1312.3	1388.1	1465.2
55°	878.3	882.3	913.6	958.1	1029.9	1065.2	1104.4	1180.3	1261.3	1347.6	1444.3
57.5°	811.7	815.6	845.7	894.0	968.5	1006.4	1044.3	1126.7	1215.5	1322.7	1449.5
60°	735.9	746.3	773.8	828.7	904.5	942.4	986.8	1078.3	1189.4	1331.9	1492.6
62.5°	671.8	674.4	705.8	765.9	845.7	887.5	935.8	1046.9	1193.3	1372.4	1564.5
65°	601.2	607.8	640.4	708.4	793.4	843.0	900.5	1043.0	1229.9	1443.0	1629.9
67.5°	530.7	541.1	580.3	654.8	752.9	813.0	886.2	1070.5	1288.7	1496.6	1648.2
70°	464.0	477.1	521.5	607.8	725.4	801.2	895.3	1111.0	1329.3	1500.5	1601.1
72.5°	397.3	415.6	473.1	572.5	715.0	809.1	916.2	1135.8	1320.1	1437.7	1517.5
75°	333.3	354.2	428.7	545.0	713.6	815.6	924.1	1112.3	1243.0	1341.0	1415.5
77.5°	275.8	300.6	386.9	522.8	704.5	799.9	887.5	1032.6	1141.0	1232.5	1308.3
80°	217.0	249.6	350.3	494.1	660.1	735.9	807.7	929.3	1027.3	1120.1	1209.0
82.5°	160.8	203.9	311.1	450.9	584.2	652.2	708.4	819.5	918.8	1015.6	1117.5
85°	111.1	160.8	264.0	384.3	499.3	558.1	613.0	718.9	816.9	918.8	1028.6
87.5°	77.1	126.8	219.6	325.5	431.3	481.0	530.7	632.6	730.6	831.3	943.7
90°	64.0	100.6	183.0	275.8	369.9	416.9	464.0	556.8	653.5	750.2	854.8
92.5°	60.1	83.7	150.3	231.3	316.3	355.5	397.3	483.6	569.9	662.7	751.5
95°	56.2	66.7	118.9	184.3	256.2	290.2	325.5	393.4	471.8	547.6	628.7
97.5°	51.0	54.9	91.5	143.8	201.3	230.0	256.2	311.1	372.5	430.0	487.5
100°	47.1	47.1	69.3	109.8	155.5	176.5	198.7	244.4	284.9	328.1	368.6
102.5°	41.8	41.8	53.6	82.3	118.9	135.9	155.5	186.9	217.0	247.0	275.8
105°	37.9	36.6	43.1	64.0	90.2	104.6	118.9	145.1	168.6	188.2	207.8
107.5°	32.7	32.7	35.3	51.0	71.9	83.7	94.1	116.3	134.6	149.0	159.5
110°	27.4	27.4	28.8	40.5	58.8	68.0	78.4	95.4	109.8	121.6	128.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	23.5	23.5	22.2	32.7	48.4	57.5	65.4	81.0	94.1	101.9	107.2
115°	18.3	18.3	18.3	24.8	39.2	47.1	54.9	69.3	82.3	90.2	94.1
117.5°	15.7	15.7	14.4	18.3	31.4	39.2	45.7	60.1	70.6	79.7	83.7
120°	11.8	11.8	11.8	11.8	23.5	31.4	37.9	51.0	61.4	69.3	73.2
122.5°	9.1	9.1	9.1	7.8	17.0	23.5	30.1	41.8	52.3	60.1	65.4
125°	7.8	6.5	6.5	6.5	10.5	15.7	22.2	32.7	41.8	51.0	56.2
127.5°	6.5	5.2	5.2	5.2	5.2	9.1	14.4	24.8	34.0	41.8	47.1
130°	5.2	3.9	3.9	3.9	2.6	5.2	9.1	17.0	26.1	32.7	37.9
132.5°	3.9	3.9	2.6	2.6	1.3	1.3	3.9	10.5	18.3	24.8	30.1
135°	2.6	2.6	2.6	1.3	1.3	0.0	0.0	5.2	11.8	17.0	22.2
137.5°	2.6	2.6	1.3	1.3	0.0	0.0	0.0	1.3	5.2	10.5	15.7
140°	2.6	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	5.2	9.1
142.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
145°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°
0°	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1	1886.1
2.5°	1878.2	1879.5	1880.8	1880.8	1879.5	1879.5	1878.2	1875.6	1873.0	1871.7
5°	1869.1	1873.0	1875.6	1875.6	1875.6	1874.3	1874.3	1873.0	1870.4	1869.1
7.5°	1861.2	1867.8	1870.4	1869.1	1869.1	1869.1	1869.1	1870.4	1867.8	1866.5
10°	1853.4	1858.6	1863.8	1865.1	1866.5	1865.1	1865.1	1862.5	1861.2	1858.6
12.5°	1845.5	1854.7	1862.5	1869.1	1869.1	1869.1	1871.7	1875.6	1874.3	1870.4
15°	1839.0	1854.7	1863.8	1874.3	1878.2	1882.1	1883.4	1886.1	1882.1	1882.1
17.5°	1835.1	1856.0	1869.1	1879.5	1880.8	1886.1	1893.9	1897.8	1896.5	1895.2
20°	1828.5	1853.4	1871.7	1880.8	1887.4	1893.9	1904.4	1907.0	1909.6	1909.6
22.5°	1820.7	1848.2	1866.5	1887.4	1897.8	1904.4	1918.7	1926.6	1929.2	1927.9
25°	1814.2	1845.5	1873.0	1897.8	1908.3	1916.1	1934.4	1948.8	1951.4	1951.4
27.5°	1807.6	1844.2	1876.9	1909.6	1922.7	1931.8	1950.1	1964.5	1969.7	1971.0
30°	1801.1	1841.6	1880.8	1913.5	1929.2	1938.3	1959.3	1972.3	1982.8	1982.8
32.5°	1789.3	1839.0	1878.2	1913.5	1926.6	1942.3	1961.9	1976.2	1984.1	1982.8
35°	1777.6	1823.3	1867.8	1903.0	1917.4	1933.1	1956.6	1973.6	1978.9	1984.1
37.5°	1758.0	1806.3	1850.8	1886.1	1907.0	1920.0	1941.0	1954.0	1964.5	1961.9
40°	1731.8	1780.2	1825.9	1859.9	1878.2	1893.9	1917.4	1929.2	1938.3	1937.0
42.5°	1693.9	1748.8	1792.0	1828.5	1848.2	1863.8	1892.6	1903.0	1913.5	1914.8
45°	1656.0	1709.6	1758.0	1797.2	1815.5	1833.8	1869.1	1888.7	1901.7	1905.7
47.5°	1610.3	1670.4	1725.3	1778.9	1805.0	1828.5	1865.1	1892.6	1907.0	1909.6
50°	1572.4	1646.9	1714.8	1777.6	1810.2	1836.4	1886.1	1918.7	1934.4	1941.0
52.5°	1550.1	1640.3	1729.2	1810.2	1849.5	1882.1	1943.6	1980.2	2006.3	2008.9
55°	1554.1	1667.8	1778.9	1879.5	1918.7	1959.3	2015.5	2049.4	2071.7	2071.7
57.5°	1593.3	1729.2	1857.3	1950.1	1989.3	2020.7	2073.0	2095.2	2110.9	2114.8
60°	1663.9	1807.6	1918.7	1999.8	2025.9	2050.7	2079.5	2104.3	2110.9	2113.5
62.5°	1733.1	1856.0	1943.6	1999.8	2015.5	2036.4	2057.3	2071.7	2076.9	2076.9
65°	1769.7	1861.2	1914.8	1956.6	1973.6	1980.2	2002.4	2007.6	2019.4	2016.8
67.5°	1747.5	1806.3	1849.5	1884.7	1897.8	1910.9	1937.0	1950.1	1960.6	1963.2
70°	1671.7	1718.8	1764.5	1808.9	1825.9	1848.2	1879.5	1904.4	1916.1	1922.7
72.5°	1578.9	1635.1	1693.9	1747.5	1775.0	1795.9	1835.1	1867.8	1879.5	1886.1
75°	1483.5	1550.1	1618.1	1683.5	1712.2	1739.7	1786.7	1818.1	1839.0	1845.5
77.5°	1388.1	1469.1	1551.5	1626.0	1661.2	1690.0	1743.6	1777.6	1802.4	1805.0
80°	1299.2	1395.9	1487.4	1567.1	1602.4	1636.4	1690.0	1729.2	1742.3	1760.6
82.5°	1220.8	1321.4	1414.2	1497.9	1537.1	1567.1	1623.3	1663.9	1683.5	1693.9
85°	1135.8	1240.4	1334.5	1416.8	1457.3	1493.9	1546.2	1584.1	1611.6	1615.5
87.5°	1049.6	1154.1	1250.8	1335.8	1376.3	1410.3	1465.2	1501.8	1526.6	1534.5
90°	958.1	1057.4	1150.2	1235.2	1269.1	1304.4	1356.7	1398.5	1424.7	1426.0
92.5°	848.3	943.7	1028.6	1108.4	1148.9	1175.0	1224.7	1267.8	1286.1	1294.0
95°	708.4	796.0	877.0	943.7	984.2	1007.7	1056.1	1087.5	1108.4	1113.6
97.5°	555.5	623.5	688.8	747.6	777.7	797.3	836.5	864.0	895.3	887.5
100°	418.3	456.2	503.2	541.1	563.3	576.4	605.2	623.5	641.8	652.2
102.5°	303.2	332.0	352.9	372.5	388.2	401.3	423.5	430.0	435.2	448.3
105°	222.2	236.6	248.3	262.7	269.2	273.2	282.3	288.9	288.9	300.6
107.5°	167.3	173.8	179.1	186.9	186.9	190.8	190.8	192.1	196.1	193.4
110°	132.0	133.3	134.6	133.3	134.6	133.3	132.0	130.7	130.7	129.4



TEST NUMBER: P237891

CATALOG NUMBER: 4VRVT2-LD5-11-DR100-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	109.8	108.5	107.2	103.3	101.9	99.3	98.0	95.4	92.8	92.8
115°	94.1	92.8	90.2	86.3	83.7	81.0	79.7	75.8	73.2	71.9
117.5°	83.7	82.3	79.7	75.8	74.5	71.9	69.3	65.4	62.7	61.4
120°	75.8	75.8	73.2	69.3	68.0	66.7	62.7	60.1	57.5	56.2
122.5°	68.0	68.0	66.7	64.0	62.7	61.4	58.8	56.2	53.6	53.6
125°	58.8	60.1	60.1	58.8	57.5	56.2	54.9	52.3	51.0	49.7
127.5°	51.0	52.3	53.6	53.6	52.3	52.3	49.7	48.4	47.1	47.1
130°	41.8	45.7	47.1	47.1	47.1	47.1	45.7	44.4	43.1	43.1
132.5°	34.0	36.6	39.2	40.5	40.5	40.5	39.2	39.2	37.9	37.9
135°	26.1	28.8	31.4	32.7	34.0	34.0	34.0	34.0	32.7	32.7
137.5°	19.6	22.2	24.8	26.1	26.1	27.4	27.4	27.4	26.1	26.1
140°	11.8	15.7	17.0	18.3	19.6	19.6	20.9	20.9	19.6	19.6
142.5°	6.5	9.1	10.5	11.8	13.1	13.1	14.4	13.1	13.1	13.1
145°	1.3	2.6	5.2	6.5	6.5	6.5	6.5	7.8	6.5	6.5
147.5°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)