

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: P237879

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-11-DR-W-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% 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: 9957.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.59 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

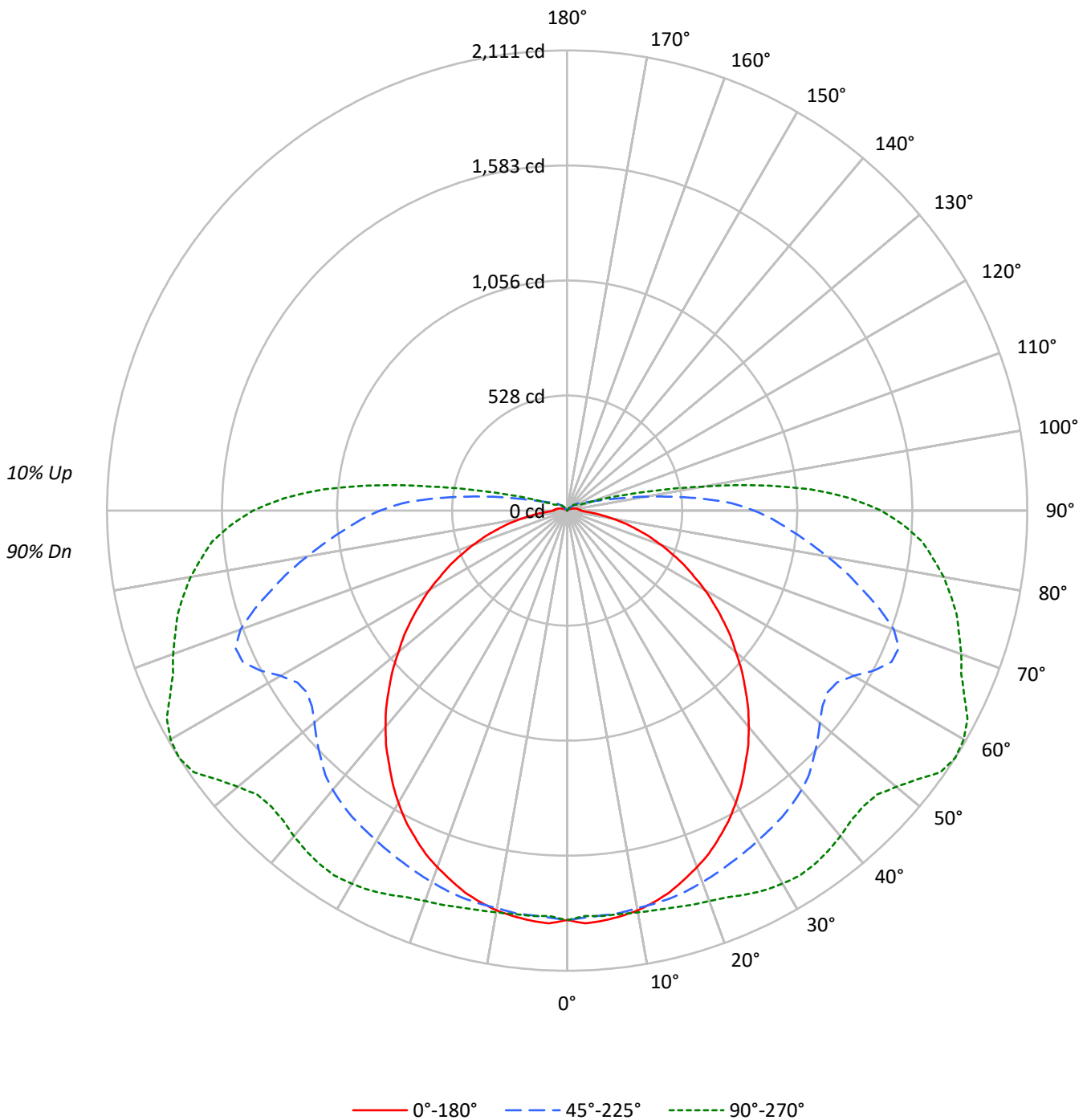
Input Watts (W): 82.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9705	9705	9705
5°	9761	9449	9406
10°	9703	9285	9275
15°	9594	9194	9255
20°	9435	9101	9344
25°	9254	9043	9590
30°	9025	9054	9888
35°	8733	9143	10126
40°	8461	9238	10278
45°	8118	9249	10522
50°	7752	9255	11339
55°	7418	9525	12762
60°	7061	10751	13761
65°	6667	12815	14332
70°	6209	13962	15171
75°	5699	14103	16464
80°	5103	14422	18056
85°	4520	15160	20153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	1.8
10°-20°	522.6	5.2
20°-30°	829.2	8.3
30°-40°	1073.0	10.8
40°-50°	1214.5	12.2
50°-60°	1333.6	13.4
60°-70°	1415.1	14.2
70°-80°	1326.7	13.3
80°-90°	1073.0	10.8
90°-100°	664.8	6.7
100°-110°	208.5	2.1
110°-120°	66.3	0.7
120°-130°	34.4	0.3
130°-140°	14.4	0.1
140°-150°	2.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1530.4	15.4
0°-40°	2603.4	26.1
0°-60°	5151.5	51.7
0°-90°	8966.3	90.0
90°-120°	939.7	9.4
90°-150°	990.7	10.0
90°-180°	991.0	10.0
0°-180°	9957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1889	1882	1864	1872	1866	179
15°	1813	1821	1840	1881	1885	511
25°	1654	1691	1782	1900	1944	762
35°	1423	1515	1718	1921	1980	892
45°	1156	1299	1600	1830	1920	892
55°	870	1061	1456	1941	2091	779
65°	592	844	1642	1958	2010	585
75°	328	822	1402	1718	1851	350
85°	111	556	1027	1477	1635	112
90°	63	414	857	1281	1440	36
95°	55	288	625	978	1119	43
105°	37	102	196	259	281	39
115°	18	47	89	77	65	19
125°	6	16	55	55	47	6
135°	3	0	22	33	31	2
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: P237879

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3
2.5°	1895.3	1892.7	1888.7	1887.4	1886.1	1886.1	1887.4	1884.8	1880.9	1874.4	1869.1
5°	1888.7	1886.1	1882.2	1879.6	1882.2	1882.2	1883.5	1880.9	1875.7	1870.4	1863.9
7.5°	1877.0	1874.4	1870.4	1870.4	1869.1	1870.4	1870.4	1870.4	1867.8	1865.2	1861.3
10°	1862.6	1858.7	1857.4	1856.1	1857.4	1860.0	1860.0	1861.3	1858.7	1854.8	1852.1
12.5°	1840.4	1839.1	1835.1	1836.5	1837.8	1841.7	1844.3	1846.9	1848.2	1846.9	1846.9
15°	1812.9	1810.3	1809.0	1811.6	1819.5	1820.8	1823.4	1829.9	1832.5	1837.8	1840.4
17.5°	1777.6	1777.6	1777.6	1782.9	1792.0	1794.6	1799.9	1806.4	1812.9	1819.5	1828.6
20°	1741.0	1741.0	1741.0	1747.6	1758.0	1765.9	1771.1	1780.3	1790.7	1805.1	1814.2
22.5°	1701.8	1699.2	1699.2	1705.7	1721.4	1725.4	1735.8	1754.1	1769.8	1786.8	1798.5
25°	1653.5	1650.8	1654.8	1663.9	1682.2	1691.4	1703.1	1724.0	1739.7	1763.3	1781.6
27.5°	1605.1	1601.2	1606.4	1618.2	1643.0	1653.5	1667.8	1692.7	1711.0	1737.1	1765.9
30°	1547.6	1547.6	1554.1	1569.8	1594.6	1609.0	1624.7	1654.8	1679.6	1712.3	1748.9
32.5°	1488.8	1486.2	1497.9	1514.9	1547.6	1564.6	1581.6	1615.6	1646.9	1688.8	1733.2
35°	1423.4	1424.7	1436.5	1458.7	1497.9	1514.9	1533.2	1572.4	1614.3	1665.2	1717.5
37.5°	1363.3	1360.7	1376.4	1406.4	1444.3	1463.9	1483.5	1531.9	1579.0	1636.5	1696.6
40°	1296.6	1297.9	1312.3	1346.3	1385.5	1407.7	1430.0	1486.2	1542.4	1603.8	1673.1
42.5°	1228.7	1230.0	1249.6	1286.2	1329.3	1354.1	1381.6	1440.4	1504.5	1572.4	1643.0
45°	1155.5	1158.1	1181.6	1224.7	1267.9	1299.2	1329.3	1393.4	1465.2	1533.2	1599.9
47.5°	1086.2	1090.1	1120.2	1159.4	1209.1	1241.7	1274.4	1347.6	1418.2	1487.5	1558.0
50°	1010.4	1022.1	1048.3	1092.7	1148.9	1180.3	1216.9	1292.7	1367.2	1441.7	1513.6
52.5°	943.7	948.9	981.6	1024.8	1084.9	1121.5	1155.5	1236.5	1314.9	1392.0	1475.7
55°	870.5	878.4	913.7	958.1	1020.8	1061.4	1099.3	1180.3	1266.6	1352.8	1456.1
57.5°	798.6	807.8	845.7	891.4	960.7	997.3	1041.7	1126.7	1220.8	1331.9	1467.9
60°	730.7	737.2	772.5	824.8	896.7	938.5	984.2	1082.3	1197.3	1346.3	1516.2
62.5°	657.5	669.2	701.9	760.7	843.1	886.2	938.5	1053.5	1206.4	1393.4	1588.1
65°	592.1	601.3	637.9	703.2	790.8	844.4	904.5	1054.8	1249.6	1456.1	1641.7
67.5°	522.8	538.5	576.4	648.3	751.6	815.6	892.7	1082.3	1303.2	1501.8	1646.9
70°	456.2	471.9	520.2	605.2	728.0	809.1	901.9	1124.1	1337.1	1495.3	1594.6
72.5°	393.4	409.1	470.6	569.9	720.2	815.6	921.5	1143.7	1317.5	1423.4	1503.1
75°	328.1	350.3	426.1	546.4	718.9	822.2	929.3	1111.0	1237.8	1326.7	1402.5
77.5°	271.9	299.3	386.9	524.1	708.4	802.6	884.9	1026.1	1134.6	1222.1	1309.7
80°	210.4	248.3	351.6	495.4	660.1	734.6	802.6	917.6	1024.8	1117.6	1210.4
82.5°	156.9	203.9	309.8	448.3	583.0	645.7	708.4	815.6	916.3	1013.0	1117.6
85°	111.1	159.5	265.3	384.3	500.6	555.5	611.7	716.3	815.6	918.9	1027.4
87.5°	78.4	124.2	218.3	324.2	428.7	474.5	526.8	626.1	730.7	832.6	946.3
90°	62.7	99.3	181.7	273.2	366.0	414.3	461.4	556.8	652.2	751.6	857.4
92.5°	60.1	82.3	150.3	230.0	311.1	352.9	394.7	481.0	568.6	657.5	758.1
95°	54.9	66.7	116.3	184.3	252.3	287.6	324.2	393.4	469.2	543.7	624.8
97.5°	51.0	54.9	90.2	143.8	198.7	223.5	251.0	309.8	363.4	420.9	483.6
100°	45.7	47.1	68.0	107.2	151.6	173.8	197.4	236.6	277.1	322.9	366.0
102.5°	41.8	41.8	53.6	81.0	113.7	130.7	147.7	181.7	210.4	240.5	265.3
105°	36.6	36.6	43.1	61.4	87.6	102.0	115.0	138.6	162.1	181.7	196.1
107.5°	32.7	31.4	34.0	49.7	70.6	81.0	92.8	111.1	128.1	141.2	152.9
110°	27.4	27.4	27.4	40.5	57.5	66.7	75.8	91.5	105.9	115.0	120.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	22.2	22.2	22.2	32.7	47.1	56.2	64.0	78.4	90.2	98.0	102.0
115°	18.3	18.3	17.0	24.8	39.2	47.1	53.6	68.0	78.4	85.0	88.9
117.5°	14.4	14.4	14.4	18.3	31.4	37.9	45.7	57.5	69.3	75.8	79.7
120°	11.8	11.8	10.5	11.8	23.5	30.1	36.6	49.7	60.1	66.7	70.6
122.5°	9.1	9.1	7.8	7.8	17.0	22.2	28.8	40.5	51.0	57.5	62.7
125°	6.5	6.5	6.5	5.2	10.5	15.7	22.2	32.7	41.8	49.7	54.9
127.5°	5.2	5.2	5.2	3.9	5.2	9.1	14.4	24.8	34.0	40.5	45.7
130°	3.9	3.9	3.9	2.6	2.6	5.2	9.1	17.0	24.8	31.4	37.9
132.5°	3.9	3.9	2.6	2.6	1.3	1.3	3.9	10.5	18.3	23.5	28.8
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	6.5	10.5	14.4
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°	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3	1878.3
2.5°	1866.5	1867.8	1870.4	1870.4	1869.1	1869.1	1867.8	1866.5	1863.9	1861.3
5°	1863.9	1866.5	1870.4	1871.7	1871.7	1870.4	1870.4	1870.4	1869.1	1866.5
7.5°	1862.6	1866.5	1870.4	1871.7	1873.1	1873.1	1871.7	1870.4	1867.8	1866.5
10°	1856.1	1863.9	1867.8	1871.7	1874.4	1874.4	1875.7	1875.7	1873.1	1871.7
12.5°	1853.4	1862.6	1869.1	1874.4	1878.3	1878.3	1880.9	1883.5	1875.7	1877.0
15°	1848.2	1861.3	1871.7	1878.3	1880.9	1882.2	1884.8	1886.1	1883.5	1884.8
17.5°	1841.7	1858.7	1869.1	1878.3	1879.6	1883.5	1891.4	1895.3	1895.3	1896.6
20°	1832.5	1852.1	1866.5	1880.9	1886.1	1890.0	1897.9	1905.7	1903.1	1905.7
22.5°	1822.1	1844.3	1865.2	1882.2	1888.7	1896.6	1909.7	1917.5	1921.4	1920.1
25°	1812.9	1841.7	1866.5	1892.7	1900.5	1911.0	1926.6	1937.1	1941.0	1943.6
27.5°	1802.5	1837.8	1871.7	1900.5	1913.6	1926.6	1946.3	1958.0	1961.9	1963.2
30°	1794.6	1839.1	1874.4	1908.3	1922.7	1937.1	1958.0	1969.8	1975.0	1976.3
32.5°	1786.8	1833.8	1874.4	1911.0	1925.3	1938.4	1963.2	1981.5	1985.5	1985.5
35°	1776.3	1823.4	1869.1	1907.0	1921.4	1935.8	1963.2	1977.6	1981.5	1980.2
37.5°	1758.0	1810.3	1857.4	1891.4	1905.7	1918.8	1946.3	1961.9	1968.5	1967.2
40°	1731.9	1785.5	1831.2	1869.1	1882.2	1896.6	1925.3	1938.4	1947.6	1950.2
42.5°	1700.5	1754.1	1799.9	1837.8	1854.8	1871.7	1900.5	1914.9	1925.3	1928.0
45°	1661.3	1716.2	1765.9	1810.3	1829.9	1846.9	1882.2	1907.0	1917.5	1920.1
47.5°	1620.8	1683.5	1739.7	1793.3	1818.2	1844.3	1883.5	1914.9	1929.3	1928.0
50°	1582.9	1658.7	1729.3	1799.9	1832.5	1862.6	1912.3	1946.3	1963.2	1971.1
52.5°	1564.6	1658.7	1752.8	1836.5	1874.4	1907.0	1965.9	2005.1	2024.7	2024.7
55°	1573.7	1695.3	1803.8	1900.5	1941.0	1976.3	2027.3	2065.2	2082.2	2091.3
57.5°	1615.6	1756.7	1873.1	1964.5	2002.5	2032.5	2079.6	2097.9	2116.2	2110.9
60°	1686.1	1820.8	1924.0	2003.8	2029.9	2045.6	2075.7	2091.3	2100.5	2100.5
62.5°	1745.0	1866.5	1938.4	1985.5	2009.0	2022.1	2046.9	2058.7	2070.4	2070.4
65°	1771.1	1850.8	1905.7	1947.6	1958.0	1973.7	1990.7	2002.5	2012.9	2010.3
67.5°	1739.7	1797.2	1840.4	1878.3	1891.4	1907.0	1928.0	1944.9	1954.1	1956.7
70°	1661.3	1716.2	1756.7	1803.8	1823.4	1843.0	1879.6	1904.4	1918.8	1924.0
72.5°	1569.8	1627.3	1690.1	1743.7	1773.7	1795.9	1836.5	1862.6	1882.2	1884.8
75°	1475.7	1547.6	1619.5	1687.4	1717.5	1748.9	1794.6	1824.7	1846.9	1850.8
77.5°	1390.7	1473.1	1562.0	1635.2	1671.8	1699.2	1748.9	1777.6	1801.2	1802.5
80°	1305.8	1402.5	1492.7	1568.5	1605.1	1640.4	1687.4	1725.4	1745.0	1754.1
82.5°	1223.4	1322.8	1419.5	1507.1	1539.7	1573.7	1627.3	1663.9	1686.1	1694.0
85°	1142.4	1250.9	1351.5	1436.5	1477.0	1511.0	1568.5	1602.5	1628.6	1635.2
87.5°	1057.4	1163.3	1264.0	1347.6	1389.4	1419.5	1478.3	1513.6	1539.7	1545.0
90°	965.9	1065.3	1163.3	1241.7	1280.9	1313.6	1376.4	1409.0	1428.6	1440.4
92.5°	852.2	947.6	1037.8	1114.9	1155.5	1179.0	1237.8	1273.1	1294.0	1299.2
95°	711.1	792.1	873.1	942.4	977.7	1013.0	1052.2	1086.2	1114.9	1118.9
97.5°	549.0	616.9	683.6	751.6	773.8	794.7	827.4	862.7	888.8	887.5
100°	409.1	448.3	495.4	530.7	547.7	571.2	602.6	623.5	626.1	633.9
102.5°	294.1	321.5	341.1	367.3	375.1	396.0	406.5	420.9	423.5	430.0
105°	213.1	227.4	241.8	252.3	258.8	260.1	268.0	278.4	281.0	281.0
107.5°	159.5	167.3	168.6	172.5	175.1	176.5	181.7	183.0	184.3	184.3
110°	125.5	126.8	124.2	124.2	122.9	122.9	121.6	120.3	118.9	118.9



TEST NUMBER: P237879

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	102.0	102.0	99.3	95.4	92.8	91.5	87.6	85.0	83.7	83.7
115°	88.9	86.3	83.7	79.7	77.1	75.8	71.9	69.3	66.7	65.4
117.5°	79.7	78.4	74.5	71.9	69.3	68.0	64.0	60.1	58.8	57.5
120°	71.9	70.6	69.3	65.4	64.0	62.7	58.8	56.2	53.6	53.6
122.5°	64.0	64.0	62.7	60.1	58.8	57.5	54.9	52.3	51.0	49.7
125°	57.5	57.5	57.5	56.2	54.9	53.6	51.0	49.7	48.4	47.1
127.5°	48.4	51.0	51.0	51.0	49.7	49.7	48.4	45.7	44.4	44.4
130°	40.5	43.1	44.4	44.4	44.4	44.4	43.1	41.8	40.5	40.5
132.5°	32.7	36.6	37.9	39.2	39.2	39.2	37.9	37.9	36.6	36.6
135°	26.1	28.8	31.4	32.7	32.7	32.7	32.7	32.7	31.4	31.4
137.5°	19.6	20.9	23.5	24.8	26.1	26.1	26.1	26.1	26.1	26.1
140°	11.8	14.4	17.0	18.3	19.6	19.6	19.6	19.6	19.6	19.6
142.5°	6.5	7.8	10.5	11.8	13.1	13.1	13.1	13.1	13.1	13.1
145°	1.3	2.6	5.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
147.5°	0.0	0.0	0.0	0.0	1.3	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)