

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: P237892

Luminaire Tested: **4VRVT2-LD5-11-DR100-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237892
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-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
4FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10556.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

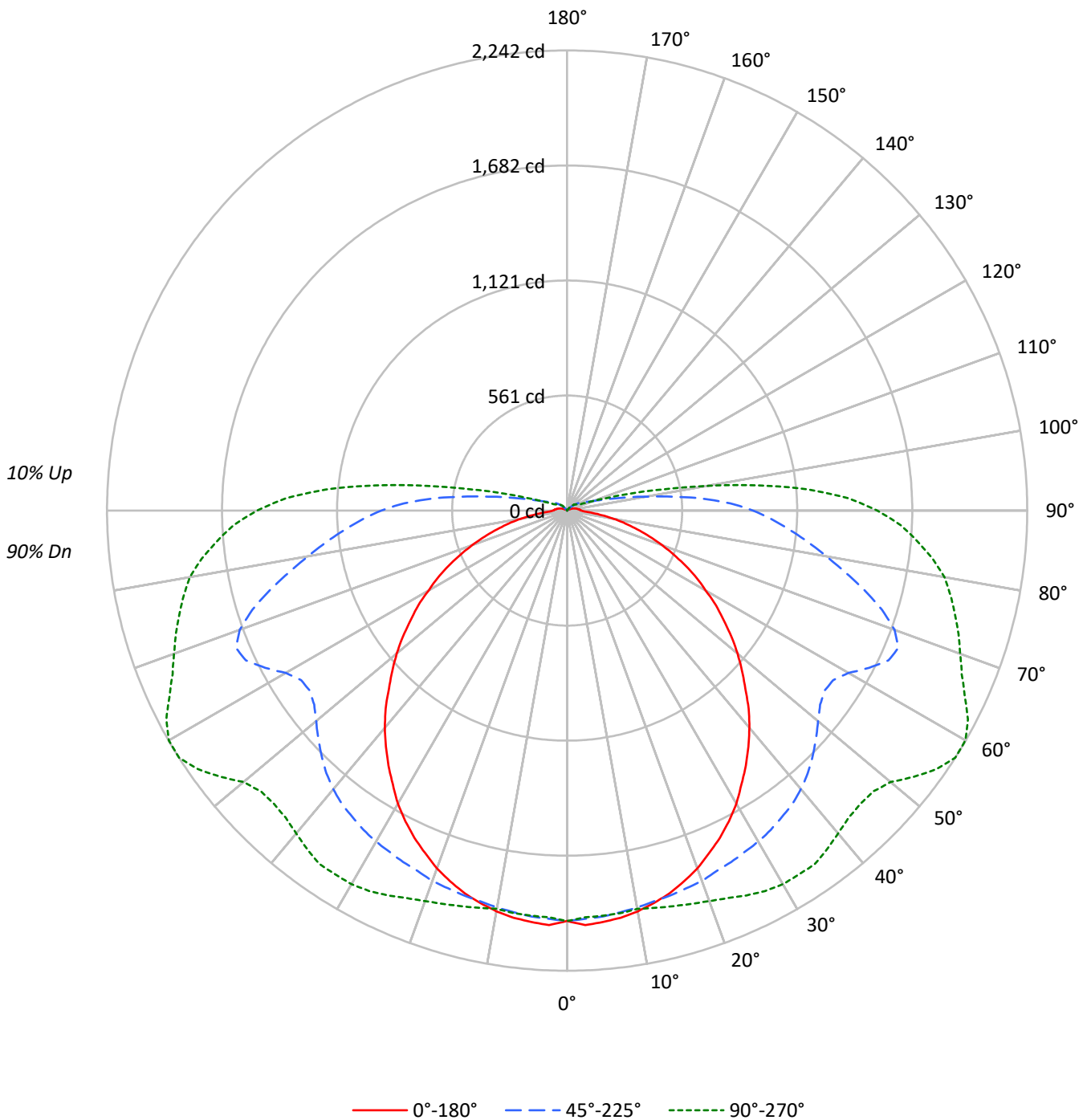
Input Watts (W): 82.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10330	10330	10330
5°	10398	10065	9985
10°	10329	9842	9763
15°	10214	9697	9797
20°	10054	9633	9926
25°	9847	9593	10206
30°	9615	9640	10516
35°	9309	9707	10755
40°	9014	9785	10822
45°	8625	9779	11070
50°	8313	9759	11836
55°	7934	10015	13402
60°	7539	11220	14677
65°	7176	13487	15242
70°	6695	14861	16070
75°	6137	15088	17404
80°	5578	15270	19211
85°	4792	16090	21106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	1.8
10°-20°	553.5	5.2
20°-30°	879.6	8.3
30°-40°	1137.0	10.8
40°-50°	1283.1	12.2
50°-60°	1406.5	13.3
60°-70°	1501.0	14.2
70°-80°	1407.1	13.3
80°-90°	1133.2	10.7
90°-100°	705.6	6.7
100°-110°	228.7	2.2
110°-120°	74.6	0.7
120°-130°	38.2	0.4
130°-140°	15.8	0.1
140°-150°	2.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1622.7	15.4
0°-40°	2759.7	26.1
0°-60°	5449.3	51.6
0°-90°	9490.6	89.9
90°-120°	1009.0	9.6
90°-150°	1065.4	10.1
90°-180°	1065.0	10.1
0°-180°	10556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2012	2005	1986	1988	1981	191
15°	1930	1930	1941	1991	1995	544
25°	1760	1783	1890	2023	2069	810
35°	1517	1603	1823	2033	2103	949
45°	1228	1379	1692	1924	2020	950
55°	931	1129	1531	2034	2196	834
65°	637	894	1728	2092	2138	630
75°	353	865	1500	1815	1956	377
85°	118	592	1090	1545	1712	121
90°	68	442	906	1345	1512	39
95°	60	308	666	1043	1180	46
105°	40	111	220	285	319	42
115°	19	50	100	89	76	20
125°	8	17	60	61	53	8
135°	3	0	24	36	35	3
145°	1	0	0	7	7	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: P237892

CATALOG NUMBER: 4VRVT2-LD5-11-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	2021.5	2015.9	2011.8	2011.8	2011.8	2010.4	2010.4	2009.0	2006.2	1997.9	1991.0
5°	2011.8	2009.0	2004.9	2004.9	2004.9	2004.9	2004.9	2002.1	1996.5	1991.0	1985.5
7.5°	2000.7	1997.9	1992.4	1993.8	1989.6	1991.0	1989.6	1986.8	1985.5	1981.3	1974.4
10°	1982.7	1979.9	1974.4	1975.8	1973.0	1974.4	1974.4	1975.8	1973.0	1968.8	1963.3
12.5°	1957.8	1956.4	1953.6	1952.2	1955.0	1957.8	1959.1	1956.4	1953.6	1952.2	1950.8
15°	1930.0	1927.3	1924.5	1925.9	1930.0	1930.0	1934.2	1934.2	1934.2	1935.6	1941.1
17.5°	1894.0	1892.6	1889.9	1892.6	1895.4	1896.8	1902.3	1905.1	1906.5	1917.6	1930.0
20°	1855.2	1852.5	1849.7	1852.5	1856.6	1862.2	1867.7	1876.0	1888.5	1906.5	1920.3
22.5°	1806.7	1805.3	1804.0	1806.7	1813.7	1822.0	1831.7	1849.7	1869.1	1888.5	1900.9
25°	1759.6	1756.9	1755.5	1761.0	1774.9	1783.2	1795.6	1819.2	1841.4	1866.3	1889.9
27.5°	1707.0	1698.7	1705.6	1711.1	1729.1	1740.2	1755.5	1785.9	1810.9	1838.6	1874.6
30°	1648.8	1644.6	1644.6	1657.1	1680.6	1697.3	1715.3	1749.9	1779.0	1817.8	1862.2
32.5°	1580.9	1582.3	1585.0	1601.7	1633.5	1652.9	1668.2	1708.4	1745.8	1794.3	1845.5
35°	1517.2	1514.4	1521.3	1544.9	1580.9	1603.1	1623.8	1666.8	1713.9	1767.9	1823.4
37.5°	1450.6	1447.9	1457.6	1485.3	1524.1	1547.6	1571.2	1625.2	1679.3	1740.2	1802.6
40°	1381.4	1381.4	1392.5	1422.9	1465.9	1490.8	1518.5	1579.5	1639.1	1705.6	1772.1
42.5°	1309.3	1306.6	1320.4	1362.0	1410.5	1435.4	1468.7	1532.4	1600.3	1666.8	1736.1
45°	1227.6	1238.7	1252.5	1294.1	1344.0	1378.6	1417.4	1485.3	1554.6	1625.2	1691.7
47.5°	1155.5	1163.8	1183.2	1227.6	1285.8	1317.6	1359.2	1431.3	1506.1	1574.0	1644.6
50°	1083.5	1087.6	1114.0	1158.3	1219.3	1259.4	1299.6	1373.1	1446.5	1524.1	1596.1
52.5°	1008.7	1010.1	1041.9	1084.9	1156.9	1197.1	1234.5	1312.1	1391.1	1471.4	1553.2
55°	931.1	935.2	968.5	1015.6	1091.8	1129.2	1170.8	1251.1	1337.0	1428.5	1531.0
57.5°	860.4	864.6	896.4	947.7	1026.7	1066.9	1107.0	1194.3	1288.5	1402.2	1536.6
60°	780.1	791.1	820.2	878.4	958.8	999.0	1046.1	1143.1	1260.8	1411.9	1582.3
62.5°	712.2	714.9	748.2	811.9	896.4	940.8	992.0	1109.8	1265.0	1454.8	1658.5
65°	637.3	644.3	678.9	751.0	841.0	893.7	954.6	1105.7	1303.8	1529.6	1727.8
67.5°	562.5	573.6	615.2	694.2	798.1	861.8	939.4	1134.7	1366.1	1586.4	1747.2
70°	491.9	505.7	552.8	644.3	769.0	849.3	949.1	1177.7	1409.1	1590.6	1697.3
72.5°	421.2	440.6	501.6	606.9	757.9	857.6	971.3	1204.0	1399.4	1524.1	1608.6
75°	353.3	375.5	454.5	577.8	756.5	864.6	979.6	1179.1	1317.6	1421.6	1500.5
77.5°	292.3	318.7	410.1	554.2	746.8	847.9	940.8	1094.6	1209.6	1306.6	1386.9
80°	230.0	264.6	371.3	523.7	699.7	780.1	856.3	985.1	1089.0	1187.4	1281.6
82.5°	170.4	216.1	329.8	478.0	619.3	691.4	751.0	868.7	974.0	1076.6	1184.6
85°	117.8	170.4	279.9	407.3	529.3	591.6	649.8	762.0	866.0	974.0	1090.4
87.5°	81.7	134.4	232.8	345.0	457.2	509.9	562.5	670.6	774.5	881.2	1000.4
90°	67.9	106.7	194.0	292.3	392.1	442.0	491.9	590.2	692.8	795.3	906.1
92.5°	63.7	88.7	159.3	245.2	335.3	376.9	421.2	512.6	604.1	702.5	796.7
95°	59.6	70.7	126.1	195.4	271.6	307.6	345.0	417.0	500.2	580.5	666.4
97.5°	54.0	58.2	97.0	152.4	213.4	243.9	271.6	329.8	394.9	455.8	516.8
100°	49.9	49.9	73.4	116.4	164.9	187.0	210.6	259.1	302.0	347.8	390.7
102.5°	44.3	44.3	56.8	87.3	126.1	144.1	164.9	198.1	230.0	261.9	292.3
105°	40.2	38.8	45.7	67.9	95.6	110.8	126.1	153.8	178.7	199.5	220.3
107.5°	34.6	34.6	37.4	54.0	76.2	88.7	99.8	123.3	142.7	158.0	169.0
110°	29.1	29.1	30.5	43.0	62.3	72.0	83.1	101.1	116.4	128.9	135.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	24.9	24.9	23.6	34.6	51.3	61.0	69.3	85.9	99.8	108.1	113.6
115°	19.4	19.4	19.4	26.3	41.6	49.9	58.2	73.4	87.3	95.6	99.8
117.5°	16.6	16.6	15.2	19.4	33.3	41.6	48.5	63.7	74.8	84.5	88.7
120°	12.5	12.5	12.5	12.5	24.9	33.3	40.2	54.0	65.1	73.4	77.6
122.5°	9.7	9.7	9.7	8.3	18.0	24.9	31.9	44.3	55.4	63.7	69.3
125°	8.3	6.9	6.9	6.9	11.1	16.6	23.6	34.6	44.3	54.0	59.6
127.5°	6.9	5.5	5.5	5.5	5.5	9.7	15.2	26.3	36.0	44.3	49.9
130°	5.5	4.2	4.2	4.2	2.8	5.5	9.7	18.0	27.7	34.6	40.2
132.5°	4.2	4.2	2.8	2.8	1.4	1.4	4.2	11.1	19.4	26.3	31.9
135°	2.8	2.8	2.8	1.4	1.4	0.0	0.0	5.5	12.5	18.0	23.6
137.5°	2.8	2.8	1.4	1.4	0.0	0.0	0.0	1.4	5.5	11.1	16.6
140°	2.8	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4	5.5	9.7
142.5°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
145°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.4	1.4	1.4	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



TEST NUMBER: P237892

CATALOG NUMBER: 4VRVT2-LD5-11-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	1991.0	1992.4	1993.8	1993.8	1992.4	1992.4	1991.0	1988.2	1985.5	1984.1
5°	1981.3	1985.5	1988.2	1988.2	1988.2	1986.8	1986.8	1985.5	1982.7	1981.3
7.5°	1973.0	1979.9	1982.7	1981.3	1981.3	1981.3	1981.3	1982.7	1979.9	1978.5
10°	1964.7	1970.2	1975.8	1977.2	1978.5	1977.2	1977.2	1974.4	1973.0	1970.2
12.5°	1956.4	1966.1	1974.4	1981.3	1981.3	1981.3	1984.1	1988.2	1986.8	1982.7
15°	1949.4	1966.1	1975.8	1986.8	1991.0	1995.2	1996.5	1999.3	1995.2	1995.2
17.5°	1945.3	1967.5	1981.3	1992.4	1993.8	1999.3	2007.6	2011.8	2010.4	2009.0
20°	1938.4	1964.7	1984.1	1993.8	2000.7	2007.6	2018.7	2021.5	2024.3	2024.3
22.5°	1930.0	1959.1	1978.5	2000.7	2011.8	2018.7	2034.0	2042.3	2045.0	2043.7
25°	1923.1	1956.4	1985.5	2011.8	2022.9	2031.2	2050.6	2065.8	2068.6	2068.6
27.5°	1916.2	1955.0	1989.6	2024.3	2038.1	2047.8	2067.2	2082.5	2088.0	2089.4
30°	1909.3	1952.2	1993.8	2028.4	2045.0	2054.7	2076.9	2090.8	2101.8	2101.8
32.5°	1896.8	1949.4	1991.0	2028.4	2042.3	2058.9	2079.7	2094.9	2103.2	2101.8
35°	1884.3	1932.8	1979.9	2017.3	2032.6	2049.2	2074.1	2092.1	2097.7	2103.2
37.5°	1863.5	1914.8	1961.9	1999.3	2021.5	2035.3	2057.5	2071.4	2082.5	2079.7
40°	1835.8	1887.1	1935.6	1971.6	1991.0	2007.6	2032.6	2045.0	2054.7	2053.4
42.5°	1795.6	1853.8	1899.6	1938.4	1959.1	1975.8	2006.2	2017.3	2028.4	2029.8
45°	1755.5	1812.3	1863.5	1905.1	1924.5	1943.9	1981.3	2002.1	2015.9	2020.1
47.5°	1707.0	1770.7	1828.9	1885.7	1913.4	1938.4	1977.2	2006.2	2021.5	2024.3
50°	1666.8	1745.8	1817.8	1884.3	1919.0	1946.7	1999.3	2034.0	2050.6	2057.5
52.5°	1643.2	1738.8	1833.1	1919.0	1960.5	1995.2	2060.3	2099.1	2126.8	2129.6
55°	1647.4	1767.9	1885.7	1992.4	2034.0	2076.9	2136.5	2172.5	2196.1	2196.1
57.5°	1689.0	1833.1	1968.8	2067.2	2108.8	2142.0	2197.4	2221.0	2237.6	2241.8
60°	1763.8	1916.2	2034.0	2119.9	2147.6	2173.9	2204.4	2230.7	2237.6	2240.4
62.5°	1837.2	1967.5	2060.3	2119.9	2136.5	2158.7	2180.8	2196.1	2201.6	2201.6
65°	1876.0	1973.0	2029.8	2074.1	2092.1	2099.1	2122.6	2128.2	2140.6	2137.9
67.5°	1852.5	1914.8	1960.5	1997.9	2011.8	2025.6	2053.4	2067.2	2078.3	2081.1
70°	1772.1	1822.0	1870.5	1917.6	1935.6	1959.1	1992.4	2018.7	2031.2	2038.1
72.5°	1673.7	1733.3	1795.6	1852.5	1881.5	1903.7	1945.3	1979.9	1992.4	1999.3
75°	1572.6	1643.2	1715.3	1784.6	1815.0	1844.1	1894.0	1927.3	1949.4	1956.4
77.5°	1471.4	1557.3	1644.6	1723.6	1761.0	1791.5	1848.3	1884.3	1910.6	1913.4
80°	1377.2	1479.7	1576.7	1661.2	1698.7	1734.7	1791.5	1833.1	1846.9	1866.3
82.5°	1294.1	1400.8	1499.1	1587.8	1629.4	1661.2	1720.8	1763.8	1784.6	1795.6
85°	1204.0	1314.9	1414.6	1501.9	1544.9	1583.7	1639.1	1679.3	1708.4	1712.5
87.5°	1112.6	1223.4	1326.0	1416.0	1459.0	1495.0	1553.2	1592.0	1618.3	1626.6
90°	1015.6	1120.9	1219.3	1309.3	1345.3	1382.8	1438.2	1482.5	1510.2	1511.6
92.5°	899.2	1000.4	1090.4	1174.9	1217.9	1245.6	1298.2	1344.0	1363.4	1371.7
95°	751.0	843.8	929.7	1000.4	1043.3	1068.2	1119.5	1152.8	1174.9	1180.5
97.5°	588.8	660.9	730.2	792.5	824.4	845.2	886.7	915.8	949.1	940.8
100°	443.4	483.5	533.4	573.6	597.2	611.0	641.5	660.9	680.3	691.4
102.5°	321.4	351.9	374.1	394.9	411.5	425.4	448.9	455.8	461.4	475.2
105°	235.5	250.8	263.3	278.5	285.4	289.6	299.3	306.2	306.2	318.7
107.5°	177.3	184.3	189.8	198.1	198.1	202.3	202.3	203.7	207.8	205.1
110°	139.9	141.3	142.7	141.3	142.7	141.3	139.9	138.6	138.6	137.2



TEST NUMBER: P237892

CATALOG NUMBER: 4VRVT2-LD5-11-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	116.4	115.0	113.6	109.5	108.1	105.3	103.9	101.1	98.4	98.4
115°	99.8	98.4	95.6	91.4	88.7	85.9	84.5	80.4	77.6	76.2
117.5°	88.7	87.3	84.5	80.4	79.0	76.2	73.4	69.3	66.5	65.1
120°	80.4	80.4	77.6	73.4	72.0	70.7	66.5	63.7	61.0	59.6
122.5°	72.0	72.0	70.7	67.9	66.5	65.1	62.3	59.6	56.8	56.8
125°	62.3	63.7	63.7	62.3	61.0	59.6	58.2	55.4	54.0	52.7
127.5°	54.0	55.4	56.8	56.8	55.4	55.4	52.7	51.3	49.9	49.9
130°	44.3	48.5	49.9	49.9	49.9	49.9	48.5	47.1	45.7	45.7
132.5°	36.0	38.8	41.6	43.0	43.0	43.0	41.6	41.6	40.2	40.2
135°	27.7	30.5	33.3	34.6	36.0	36.0	36.0	36.0	34.6	34.6
137.5°	20.8	23.6	26.3	27.7	27.7	29.1	29.1	29.1	27.7	27.7
140°	12.5	16.6	18.0	19.4	20.8	20.8	22.2	22.2	20.8	20.8
142.5°	6.9	9.7	11.1	12.5	13.9	13.9	15.2	13.9	13.9	13.9
145°	1.4	2.8	5.5	6.9	6.9	6.9	6.9	8.3	6.9	6.9
147.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	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)