

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: P237880

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237880
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-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% 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: 10555.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

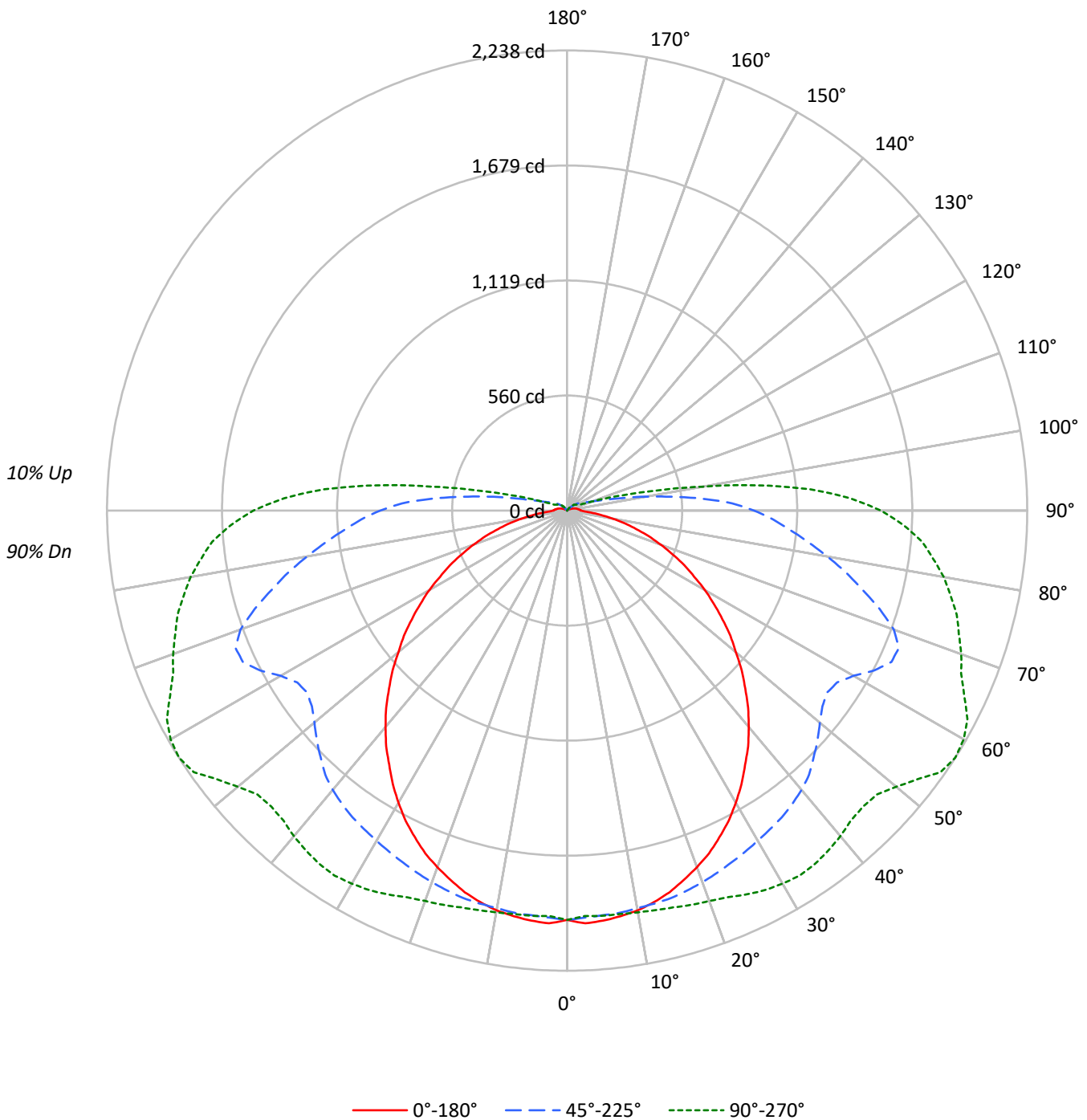
Input Watts (W): 82.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10287	10287	10287
5°	10348	10016	9971
10°	10286	9843	9832
15°	10171	9746	9811
20°	10002	9647	9906
25°	9809	9586	10166
30°	9566	9598	10482
35°	9258	9692	10735
40°	8969	9793	10896
45°	8606	9804	11154
50°	8218	9810	12020
55°	7863	10097	13529
60°	7485	11397	14587
65°	7068	13585	15192
70°	6582	14801	16082
75°	6041	14950	17454
80°	5411	15288	19141
85°	4792	16071	21363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	1.8
10°-20°	554.0	5.2
20°-30°	879.0	8.3
30°-40°	1137.4	10.8
40°-50°	1287.5	12.2
50°-60°	1413.7	13.4
60°-70°	1500.1	14.2
70°-80°	1406.3	13.3
80°-90°	1137.4	10.8
90°-100°	704.7	6.7
100°-110°	221.1	2.1
110°-120°	70.3	0.7
120°-130°	36.5	0.3
130°-140°	15.3	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°	1622.3	15.4
0°-40°	2759.7	26.1
0°-60°	5460.9	51.7
0°-90°	9504.7	90.0
90°-120°	996.1	9.4
90°-150°	1050.3	10.0
90°-180°	1050.0	9.9
0°-180°	10555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	2002	1995	1976	1984	1979	190
15°	1922	1930	1951	1994	1998	541
25°	1753	1793	1889	2015	2060	807
35°	1509	1606	1821	2037	2099	945
45°	1225	1377	1696	1940	2035	946
55°	923	1125	1544	2058	2217	826
65°	628	895	1740	2076	2131	621
75°	348	872	1487	1821	1962	371
85°	118	589	1089	1566	1733	119
90°	66	439	909	1358	1527	38
95°	58	305	662	1036	1186	46
105°	39	108	208	274	298	41
115°	19	50	94	82	69	20
125°	7	17	58	58	50	7
135°	3	0	24	35	33	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1
2.5°	2009.1	2006.3	2002.2	2000.8	1999.4	1999.4	2000.8	1998.0	1993.9	1986.9	1981.4
5°	2002.2	1999.4	1995.2	1992.5	1995.2	1995.2	1996.6	1993.9	1988.3	1982.8	1975.8
7.5°	1989.7	1986.9	1982.8	1982.8	1981.4	1982.8	1982.8	1982.8	1980.0	1977.2	1973.1
10°	1974.5	1970.3	1968.9	1967.5	1968.9	1971.7	1971.7	1973.1	1970.3	1966.1	1963.4
12.5°	1950.9	1949.5	1945.4	1946.7	1948.1	1952.3	1955.1	1957.8	1959.2	1957.8	1957.8
15°	1921.8	1919.0	1917.7	1920.4	1928.7	1930.1	1932.9	1939.8	1942.6	1948.1	1950.9
17.5°	1884.4	1884.4	1884.4	1889.9	1899.6	1902.4	1908.0	1914.9	1921.8	1928.7	1938.4
20°	1845.6	1845.6	1845.6	1852.5	1863.6	1871.9	1877.5	1887.2	1898.3	1913.5	1923.2
22.5°	1804.0	1801.3	1801.3	1808.2	1824.8	1829.0	1840.1	1859.5	1876.1	1894.1	1906.6
25°	1752.8	1750.0	1754.2	1763.9	1783.3	1792.9	1805.4	1827.6	1844.2	1869.2	1888.6
27.5°	1701.5	1697.3	1702.9	1715.4	1741.7	1752.8	1768.0	1794.3	1813.7	1841.4	1871.9
30°	1640.5	1640.5	1647.5	1664.1	1690.4	1705.7	1722.3	1754.2	1780.5	1815.1	1853.9
32.5°	1578.2	1575.4	1587.9	1605.9	1640.5	1658.5	1676.6	1712.6	1745.8	1790.2	1837.3
35°	1508.9	1510.3	1522.8	1546.3	1587.9	1605.9	1625.3	1666.9	1711.2	1765.2	1820.7
37.5°	1445.2	1442.4	1459.0	1490.9	1531.1	1551.9	1572.6	1623.9	1673.8	1734.8	1798.5
40°	1374.5	1375.9	1391.1	1427.2	1468.7	1492.3	1515.8	1575.4	1635.0	1700.1	1773.6
42.5°	1302.5	1303.8	1324.6	1363.4	1409.1	1435.5	1464.6	1526.9	1594.8	1666.9	1741.7
45°	1224.9	1227.6	1252.6	1298.3	1344.0	1377.3	1409.1	1477.0	1553.2	1625.3	1696.0
47.5°	1151.4	1155.6	1187.4	1229.0	1281.7	1316.3	1350.9	1428.5	1503.4	1576.8	1651.6
50°	1071.1	1083.5	1111.2	1158.4	1217.9	1251.2	1290.0	1370.3	1449.3	1528.3	1604.5
52.5°	1000.4	1005.9	1040.6	1086.3	1150.0	1188.8	1224.9	1310.8	1393.9	1475.7	1564.3
55°	922.8	931.1	968.5	1015.6	1082.1	1125.1	1165.3	1251.2	1342.6	1434.1	1543.5
57.5°	846.6	856.3	896.5	945.0	1018.4	1057.2	1104.3	1194.4	1294.1	1411.9	1556.0
60°	774.5	781.5	818.9	874.3	950.5	994.9	1043.3	1147.3	1269.2	1427.2	1607.3
62.5°	697.0	709.4	744.1	806.4	893.7	939.4	994.9	1116.8	1278.9	1477.0	1683.5
65°	627.7	637.4	676.2	745.4	838.3	895.1	958.8	1118.2	1324.6	1543.5	1740.3
67.5°	554.2	570.9	611.0	687.3	796.7	864.6	946.4	1147.3	1381.4	1592.0	1745.8
70°	483.6	500.2	551.5	641.5	771.8	857.7	956.1	1191.6	1417.5	1585.1	1690.4
72.5°	417.1	433.7	498.8	604.1	763.5	864.6	976.8	1212.4	1396.7	1508.9	1593.4
75°	347.8	371.3	451.7	579.2	762.1	871.5	985.2	1177.7	1312.2	1406.4	1486.7
77.5°	288.2	317.3	410.1	555.6	751.0	850.8	938.0	1087.7	1202.7	1295.5	1388.4
80°	223.1	263.3	372.7	525.1	699.7	778.7	850.8	972.7	1086.3	1184.7	1283.1
82.5°	166.3	216.2	328.4	475.3	618.0	684.5	751.0	864.6	971.3	1073.8	1184.7
85°	117.8	169.0	281.3	407.4	530.7	588.9	648.5	759.3	864.6	974.1	1089.1
87.5°	83.1	131.6	231.4	343.6	454.5	503.0	558.4	663.7	774.5	882.6	1003.2
90°	66.5	105.3	192.6	289.6	388.0	439.2	489.1	590.3	691.4	796.7	908.9
92.5°	63.7	87.3	159.3	243.9	329.8	374.1	418.4	509.9	602.7	697.0	803.6
95°	58.2	70.7	123.3	195.4	267.4	304.8	343.6	417.1	497.4	576.4	662.3
97.5°	54.0	58.2	95.6	152.4	210.6	236.9	266.0	328.4	385.2	446.2	512.7
100°	48.5	49.9	72.1	113.6	160.7	184.3	209.2	250.8	293.7	342.2	388.0
102.5°	44.3	44.3	56.8	85.9	120.5	138.6	156.6	192.6	223.1	254.9	281.3
105°	38.8	38.8	45.7	65.1	92.8	108.1	121.9	146.9	171.8	192.6	207.8
107.5°	34.6	33.3	36.0	52.7	74.8	85.9	98.4	117.8	135.8	149.6	162.1
110°	29.1	29.1	29.1	43.0	61.0	70.7	80.4	97.0	112.2	121.9	127.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	23.6	23.6	23.6	34.6	49.9	59.6	67.9	83.1	95.6	103.9	108.1
115°	19.4	19.4	18.0	26.3	41.6	49.9	56.8	72.1	83.1	90.1	94.2
117.5°	15.2	15.2	15.2	19.4	33.3	40.2	48.5	61.0	73.4	80.4	84.5
120°	12.5	12.5	11.1	12.5	24.9	31.9	38.8	52.7	63.7	70.7	74.8
122.5°	9.7	9.7	8.3	8.3	18.0	23.6	30.5	43.0	54.0	61.0	66.5
125°	6.9	6.9	6.9	5.5	11.1	16.6	23.6	34.6	44.3	52.7	58.2
127.5°	5.5	5.5	5.5	4.2	5.5	9.7	15.2	26.3	36.0	43.0	48.5
130°	4.2	4.2	4.2	2.8	2.8	5.5	9.7	18.0	26.3	33.3	40.2
132.5°	4.2	4.2	2.8	2.8	1.4	1.4	4.2	11.1	19.4	24.9	30.5
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	6.9	11.1	15.2
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1	1991.1
2.5°	1978.6	1980.0	1982.8	1982.8	1981.4	1981.4	1980.0	1978.6	1975.8	1973.1
5°	1975.8	1978.6	1982.8	1984.2	1984.2	1982.8	1982.8	1982.8	1981.4	1978.6
7.5°	1974.5	1978.6	1982.8	1984.2	1985.5	1985.5	1984.2	1982.8	1980.0	1978.6
10°	1967.5	1975.8	1980.0	1984.2	1986.9	1986.9	1988.3	1988.3	1985.5	1984.2
12.5°	1964.8	1974.5	1981.4	1986.9	1991.1	1991.1	1993.9	1996.6	1988.3	1989.7
15°	1959.2	1973.1	1984.2	1991.1	1993.9	1995.2	1998.0	1999.4	1996.6	1998.0
17.5°	1952.3	1970.3	1981.4	1991.1	1992.5	1996.6	2004.9	2009.1	2009.1	2010.5
20°	1942.6	1963.4	1978.6	1993.9	1999.4	2003.6	2011.9	2020.2	2017.4	2020.2
22.5°	1931.5	1955.1	1977.2	1995.2	2002.2	2010.5	2024.3	2032.7	2036.8	2035.4
25°	1921.8	1952.3	1978.6	2006.3	2014.6	2025.7	2042.4	2053.4	2057.6	2060.4
27.5°	1910.7	1948.1	1984.2	2014.6	2028.5	2042.4	2063.1	2075.6	2079.8	2081.2
30°	1902.4	1949.5	1986.9	2023.0	2038.2	2053.4	2075.6	2088.1	2093.6	2095.0
32.5°	1894.1	1944.0	1986.9	2025.7	2041.0	2054.8	2081.2	2100.5	2104.7	2104.7
35°	1883.0	1932.9	1981.4	2021.6	2036.8	2052.1	2081.2	2096.4	2100.5	2099.2
37.5°	1863.6	1919.0	1968.9	2004.9	2020.2	2034.0	2063.1	2079.8	2086.7	2085.3
40°	1835.9	1892.7	1941.2	1981.4	1995.2	2010.5	2041.0	2054.8	2064.5	2067.3
42.5°	1802.6	1859.5	1908.0	1948.1	1966.1	1984.2	2014.6	2029.9	2041.0	2043.7
45°	1761.1	1819.3	1871.9	1919.0	1939.8	1957.8	1995.2	2021.6	2032.7	2035.4
47.5°	1718.1	1784.6	1844.2	1901.0	1927.4	1955.1	1996.6	2029.9	2045.1	2043.7
50°	1677.9	1758.3	1833.1	1908.0	1942.6	1974.5	2027.1	2063.1	2081.2	2089.5
52.5°	1658.5	1758.3	1858.1	1946.7	1986.9	2021.6	2083.9	2125.5	2146.3	2146.3
55°	1668.2	1797.1	1912.1	2014.6	2057.6	2095.0	2149.0	2189.2	2207.2	2216.9
57.5°	1712.6	1862.2	1985.5	2082.5	2122.7	2154.6	2204.5	2223.9	2243.3	2237.7
60°	1787.4	1930.1	2039.6	2124.1	2151.8	2168.4	2200.3	2216.9	2226.6	2226.6
62.5°	1849.8	1978.6	2054.8	2104.7	2129.6	2143.5	2169.8	2182.3	2194.8	2194.8
65°	1877.5	1962.0	2020.2	2064.5	2075.6	2092.2	2110.2	2122.7	2133.8	2131.0
67.5°	1844.2	1905.2	1950.9	1991.1	2004.9	2021.6	2043.7	2061.8	2071.5	2074.2
70°	1761.1	1819.3	1862.2	1912.1	1932.9	1953.7	1992.5	2018.8	2034.0	2039.6
72.5°	1664.1	1725.1	1791.6	1848.4	1880.2	1903.8	1946.7	1974.5	1995.2	1998.0
75°	1564.3	1640.5	1716.7	1788.8	1820.7	1853.9	1902.4	1934.3	1957.8	1962.0
77.5°	1474.3	1561.6	1655.8	1733.4	1772.2	1801.3	1853.9	1884.4	1909.3	1910.7
80°	1384.2	1486.7	1582.3	1662.7	1701.5	1738.9	1788.8	1829.0	1849.8	1859.5
82.5°	1296.9	1402.2	1504.7	1597.6	1632.2	1668.2	1725.1	1763.9	1787.4	1795.7
85°	1211.0	1326.0	1432.7	1522.8	1565.7	1601.7	1662.7	1698.7	1726.4	1733.4
87.5°	1120.9	1233.2	1339.9	1428.5	1472.9	1504.7	1567.1	1604.5	1632.2	1637.8
90°	1023.9	1129.3	1233.2	1316.3	1357.9	1392.5	1459.0	1493.7	1514.4	1526.9
92.5°	903.4	1004.6	1100.2	1181.9	1224.9	1249.8	1312.2	1349.6	1371.7	1377.3
95°	753.8	839.7	925.6	999.0	1036.4	1073.8	1115.4	1151.4	1181.9	1186.1
97.5°	581.9	654.0	724.7	796.7	820.3	842.4	877.1	914.5	942.2	940.8
100°	433.7	475.3	525.1	562.5	580.6	605.5	638.8	660.9	663.7	672.0
102.5°	311.8	340.9	361.6	389.3	397.7	419.8	430.9	446.2	448.9	455.9
105°	225.9	241.1	256.3	267.4	274.3	275.7	284.0	295.1	297.9	297.9
107.5°	169.0	177.4	178.7	182.9	185.7	187.1	192.6	194.0	195.4	195.4
110°	133.0	134.4	131.6	131.6	130.2	130.2	128.9	127.5	126.1	126.1



TEST NUMBER: P237880

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	108.1	108.1	105.3	101.1	98.4	97.0	92.8	90.1	88.7	88.7
115°	94.2	91.4	88.7	84.5	81.7	80.4	76.2	73.4	70.7	69.3
117.5°	84.5	83.1	79.0	76.2	73.4	72.1	67.9	63.7	62.4	61.0
120°	76.2	74.8	73.4	69.3	67.9	66.5	62.4	59.6	56.8	56.8
122.5°	67.9	67.9	66.5	63.7	62.4	61.0	58.2	55.4	54.0	52.7
125°	61.0	61.0	61.0	59.6	58.2	56.8	54.0	52.7	51.3	49.9
127.5°	51.3	54.0	54.0	54.0	52.7	52.7	51.3	48.5	47.1	47.1
130°	43.0	45.7	47.1	47.1	47.1	47.1	45.7	44.3	43.0	43.0
132.5°	34.6	38.8	40.2	41.6	41.6	41.6	40.2	40.2	38.8	38.8
135°	27.7	30.5	33.3	34.6	34.6	34.6	34.6	34.6	33.3	33.3
137.5°	20.8	22.2	24.9	26.3	27.7	27.7	27.7	27.7	27.7	27.7
140°	12.5	15.2	18.0	19.4	20.8	20.8	20.8	20.8	20.8	20.8
142.5°	6.9	8.3	11.1	12.5	13.9	13.9	13.9	13.9	13.9	13.9
145°	1.4	2.8	5.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9
147.5°	0.0	0.0	0.0	0.0	1.4	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)