

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: METALUX

Report Number: P237834

Luminaire Tested: **8VRVT2-LD5-9-DR100-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VRVT2-LD5-9-DR100-W-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
8FT FIXTURE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8686.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.58 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Semi-Direct

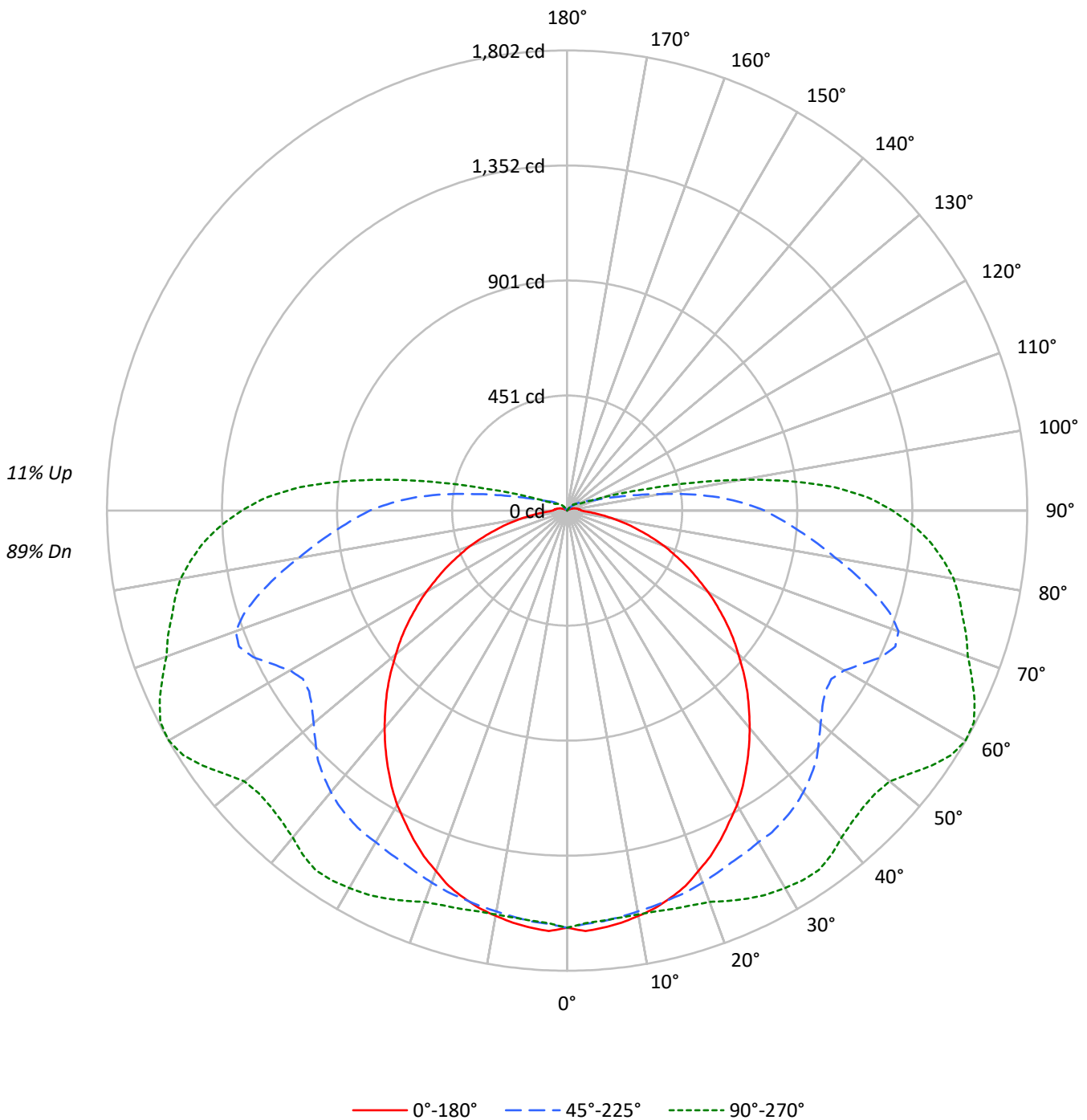
Input Watts (W): 65.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	101	94	88	82	97	91	85	80	84	80	75	78	74	71	73	70	67	64
2	90	79	70	63	86	76	68	61	71	64	58	66	60	55	61	56	52	49
3	81	68	58	50	77	65	56	49	61	53	47	56	50	44	52	47	42	39
4	73	59	49	41	70	57	48	40	53	45	38	49	42	37	46	40	35	32
5	67	52	42	35	64	50	41	34	47	39	32	44	37	31	41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28	39	32	27	37	30	26	23
7	57	42	32	26	54	41	32	25	38	30	24	36	29	23	33	27	22	20
8	53	38	29	23	51	37	28	22	35	27	21	32	26	21	30	24	20	18
9	49	35	26	20	47	34	25	20	32	24	19	30	23	18	28	22	18	16
10	46	32	24	18	44	31	23	18	29	22	17	28	21	17	26	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4220	4220	4220
5°	4244	4097	4061
10°	4213	4005	3978
15°	4174	3944	3964
20°	4099	3906	3998
25°	4015	3883	4134
30°	3925	3908	4269
35°	3808	3969	4394
40°	3688	4012	4405
45°	3569	4036	4496
50°	3436	4014	4745
55°	3314	4094	5314
60°	3181	4516	5901
65°	3031	5403	6276
70°	2888	6184	6584
75°	2646	6422	7129
80°	2440	6565	7911
85°	2398	7009	8806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	1.8
10°-20°	448.6	5.2
20°-30°	711.4	8.2
30°-40°	922.2	10.6
40°-50°	1040.4	12.0
50°-60°	1127.0	13.0
60°-70°	1212.3	14.0
70°-80°	1154.2	13.3
80°-90°	946.1	10.9
90°-100°	626.4	7.2
100°-110°	225.4	2.6
110°-120°	68.4	0.8
120°-130°	33.3	0.4
130°-140°	13.9	0.2
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°	1314.3	15.1
0°-40°	2236.5	25.7
0°-60°	4403.9	50.7
0°-90°	7716.4	88.8
90°-120°	920.1	10.6
90°-150°	969.5	11.2
90°-180°	970.0	11.2
0°-180°	8686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1639	1632	1614	1617	1612	156
15°	1569	1566	1574	1606	1614	442
25°	1422	1442	1521	1642	1676	655
35°	1224	1292	1479	1658	1718	766
45°	996	1115	1381	1565	1641	768
55°	757	920	1233	1607	1742	677
65°	517	722	1357	1711	1761	512
75°	285	685	1243	1501	1603	305
85°	99	497	912	1292	1429	99
90°	56	377	773	1143	1274	32
95°	48	269	595	922	1050	38
105°	32	99	209	291	330	34
115°	16	44	88	83	77	17
125°	6	15	51	53	47	6
135°	3	0	20	31	31	2
145°	2	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°	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5
2.5°	1648.1	1645.2	1640.8	1639.4	1639.4	1639.4	1639.4	1636.4	1632.1	1626.2	1620.4
5°	1639.4	1636.4	1632.1	1632.1	1630.6	1632.1	1632.1	1629.1	1626.2	1620.4	1614.5
7.5°	1627.7	1626.2	1620.4	1617.4	1617.4	1617.4	1620.4	1617.4	1616.0	1610.1	1604.3
10°	1611.6	1608.7	1605.8	1605.8	1607.2	1607.2	1607.2	1608.7	1605.8	1598.5	1594.1
12.5°	1594.1	1589.7	1586.8	1586.8	1588.2	1588.2	1589.7	1589.7	1589.7	1585.3	1585.3
15°	1569.2	1567.8	1561.9	1563.4	1563.4	1566.3	1567.8	1569.2	1567.8	1572.2	1573.6
17.5°	1541.5	1540.0	1534.2	1534.2	1537.1	1538.5	1542.9	1548.8	1551.7	1557.5	1564.8
20°	1502.0	1502.0	1499.1	1502.0	1507.9	1510.8	1513.7	1523.9	1529.8	1541.5	1550.2
22.5°	1465.5	1462.6	1462.6	1465.5	1471.3	1478.6	1484.5	1499.1	1509.3	1523.9	1535.6
25°	1421.7	1420.2	1418.7	1426.0	1434.8	1442.1	1452.3	1469.9	1484.5	1502.0	1521.0
27.5°	1374.9	1373.4	1376.4	1382.2	1398.3	1408.5	1417.3	1440.7	1458.2	1485.9	1510.8
30°	1331.1	1326.7	1329.6	1338.4	1358.8	1373.4	1382.2	1408.5	1433.3	1465.5	1499.1
32.5°	1279.9	1275.5	1281.4	1294.5	1317.9	1332.5	1348.6	1376.4	1405.6	1445.0	1493.3
35°	1224.4	1225.9	1228.8	1249.2	1274.1	1291.6	1307.7	1344.2	1380.7	1429.0	1478.6
37.5°	1168.9	1166.0	1177.7	1201.0	1230.3	1252.2	1268.2	1306.2	1357.4	1410.0	1462.6
40°	1111.9	1114.8	1123.6	1149.9	1180.6	1208.3	1225.9	1275.5	1331.1	1385.1	1439.2
42.5°	1053.5	1060.8	1069.5	1100.2	1138.2	1160.1	1186.4	1240.5	1298.9	1355.9	1411.4
45°	996.5	1002.3	1015.5	1049.1	1085.6	1114.8	1144.0	1201.0	1265.3	1325.2	1380.7
47.5°	936.6	942.4	959.9	995.0	1035.9	1068.1	1098.8	1160.1	1225.9	1287.2	1336.9
50°	875.2	884.0	901.5	936.6	990.6	1019.9	1050.5	1117.7	1179.1	1239.0	1296.0
52.5°	818.2	822.6	850.4	884.0	939.5	973.1	1002.3	1071.0	1129.4	1196.6	1259.5
55°	756.9	765.6	790.5	824.1	885.4	920.5	954.1	1019.9	1085.6	1155.7	1233.2
57.5°	696.9	704.3	730.6	768.5	834.3	867.9	900.0	971.6	1038.8	1126.5	1227.3
60°	637.0	645.8	672.1	715.9	781.7	816.8	850.4	926.3	1014.0	1122.1	1252.2
62.5°	574.2	588.8	607.8	661.9	729.1	764.2	805.1	892.7	1008.2	1145.5	1300.4
65°	517.2	524.5	553.8	609.3	680.9	721.8	768.5	881.0	1027.2	1195.2	1357.4
67.5°	457.3	467.6	499.7	561.1	641.4	689.6	748.1	892.7	1071.0	1249.2	1391.0
70°	403.3	410.6	450.0	517.2	613.7	676.5	748.1	922.0	1113.4	1269.7	1380.7
72.5°	343.4	355.0	403.3	485.1	602.0	678.0	762.7	952.6	1122.1	1241.9	1323.8
75°	284.9	302.4	365.3	458.8	599.1	685.3	775.8	948.3	1081.2	1171.8	1243.4
77.5°	236.7	258.6	328.7	441.3	593.2	678.0	761.2	897.1	1003.8	1090.0	1157.2
80°	182.6	216.2	298.1	419.3	566.9	640.0	707.2	824.1	910.3	993.6	1066.6
82.5°	138.8	176.8	265.9	385.7	512.8	574.2	626.8	730.6	821.1	900.0	989.2
85°	99.4	140.3	229.4	336.1	442.7	496.8	545.0	642.9	732.0	821.1	911.7
87.5°	68.7	109.6	194.3	287.8	382.8	426.6	473.4	566.9	654.6	740.8	840.1
90°	55.5	89.1	162.2	246.9	328.7	377.0	417.9	502.6	590.3	680.9	772.9
92.5°	52.6	74.5	135.9	208.9	284.9	324.4	362.4	439.8	521.6	606.4	688.2
95°	48.2	59.9	106.7	169.5	233.8	268.8	299.5	372.6	441.3	515.8	594.7
97.5°	45.3	48.2	81.8	131.5	185.6	214.8	239.6	296.6	358.0	415.0	486.5
100°	40.9	42.4	62.8	102.3	141.7	166.6	187.0	233.8	277.6	322.9	371.1
102.5°	36.5	36.5	48.2	76.0	111.0	127.1	144.6	182.6	214.8	244.0	280.5
105°	32.1	32.1	38.0	58.4	83.3	99.4	111.0	138.8	163.6	185.6	208.9
107.5°	29.2	27.8	30.7	45.3	65.7	77.4	89.1	109.6	128.6	143.2	159.3
110°	23.4	23.4	24.8	36.5	54.1	62.8	73.1	89.1	105.2	115.4	124.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	20.5	19.0	19.0	29.2	43.8	52.6	59.9	76.0	89.1	97.9	102.3
115°	16.1	16.1	14.6	21.9	35.1	43.8	49.7	64.3	76.0	83.3	87.7
117.5°	13.1	13.1	13.1	16.1	29.2	35.1	42.4	55.5	65.7	73.1	77.4
120°	10.2	10.2	10.2	10.2	21.9	27.8	35.1	46.8	57.0	64.3	68.7
122.5°	8.8	7.3	7.3	7.3	14.6	21.9	26.3	38.0	48.2	55.5	61.4
125°	5.8	5.8	5.8	4.4	10.2	14.6	20.5	30.7	39.4	46.8	51.1
127.5°	4.4	4.4	4.4	4.4	4.4	8.8	13.1	23.4	32.1	39.4	43.8
130°	4.4	4.4	2.9	2.9	1.5	4.4	7.3	16.1	23.4	30.7	36.5
132.5°	2.9	2.9	2.9	1.5	1.5	1.5	2.9	10.2	17.5	23.4	27.8
135°	2.9	2.9	1.5	1.5	0.0	0.0	0.0	5.8	11.7	16.1	20.5
137.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	1.5	5.8	10.2	14.6
140°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	1.5	4.4	8.8
142.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.9
145°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.5	1.5	0.0	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°	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5
2.5°	1620.4	1623.3	1623.3	1623.3	1623.3	1623.3	1620.4	1618.9	1617.4	1617.4
5°	1613.1	1616.0	1617.4	1617.4	1617.4	1617.4	1616.0	1614.5	1613.1	1611.6
7.5°	1604.3	1608.7	1611.6	1613.1	1613.1	1613.1	1611.6	1611.6	1608.7	1607.2
10°	1595.5	1599.9	1604.3	1607.2	1608.7	1608.7	1608.7	1608.7	1607.2	1605.8
12.5°	1589.7	1597.0	1602.8	1605.8	1605.8	1607.2	1610.1	1610.1	1608.7	1607.2
15°	1582.4	1594.1	1601.4	1605.8	1605.8	1608.7	1614.5	1614.5	1613.1	1614.5
17.5°	1576.5	1588.2	1599.9	1607.2	1610.1	1614.5	1618.9	1620.4	1621.8	1620.4
20°	1564.8	1583.8	1599.9	1608.7	1614.5	1616.0	1626.2	1633.5	1633.5	1630.6
22.5°	1560.5	1582.4	1601.4	1620.4	1623.3	1629.1	1642.3	1649.6	1654.0	1654.0
25°	1551.7	1580.9	1608.7	1632.1	1642.3	1649.6	1662.7	1674.4	1671.5	1675.9
27.5°	1547.3	1582.4	1610.1	1639.4	1654.0	1661.3	1680.3	1687.6	1692.0	1694.9
30°	1544.4	1583.8	1614.5	1646.7	1658.4	1673.0	1690.5	1702.2	1708.0	1706.6
32.5°	1540.0	1579.5	1618.9	1646.7	1664.2	1675.9	1693.4	1706.6	1715.3	1716.8
35°	1529.8	1575.1	1611.6	1645.2	1658.4	1673.0	1693.4	1700.7	1715.3	1718.3
37.5°	1516.6	1560.5	1595.5	1632.1	1645.2	1656.9	1681.7	1689.0	1694.9	1699.3
40°	1496.2	1537.1	1575.1	1610.1	1621.8	1635.0	1652.5	1664.2	1673.0	1671.5
42.5°	1469.9	1507.9	1544.4	1582.4	1591.1	1605.8	1627.7	1640.8	1649.6	1652.5
45°	1427.5	1471.3	1513.7	1547.3	1564.8	1580.9	1605.8	1620.4	1630.6	1640.8
47.5°	1386.6	1440.7	1488.9	1526.9	1547.3	1563.4	1594.1	1616.0	1632.1	1637.9
50°	1354.4	1410.0	1465.5	1522.5	1544.4	1564.8	1599.9	1623.3	1640.8	1649.6
52.5°	1328.1	1395.4	1465.5	1535.6	1566.3	1591.1	1632.1	1661.3	1684.7	1692.0
55°	1317.9	1402.7	1491.8	1572.2	1607.2	1639.4	1686.1	1713.9	1737.3	1741.6
57.5°	1335.5	1449.4	1547.3	1630.6	1665.7	1692.0	1737.3	1760.6	1779.6	1782.6
60°	1383.7	1503.5	1605.8	1677.4	1713.9	1737.3	1770.9	1788.4	1801.5	1801.5
62.5°	1443.6	1551.7	1640.8	1700.7	1727.0	1744.6	1765.0	1785.5	1789.9	1795.7
65°	1488.9	1582.4	1643.7	1687.6	1711.0	1718.3	1740.2	1748.9	1760.6	1760.6
67.5°	1491.8	1566.3	1610.1	1645.2	1658.4	1668.6	1694.9	1705.1	1713.9	1715.3
70°	1452.3	1503.5	1553.2	1583.8	1598.5	1618.9	1643.7	1659.8	1668.6	1670.0
72.5°	1389.5	1436.3	1485.9	1532.7	1553.2	1570.7	1602.8	1624.8	1633.5	1639.4
75°	1313.5	1364.7	1424.6	1480.1	1500.6	1518.1	1563.4	1583.8	1601.4	1602.8
77.5°	1231.7	1293.1	1363.2	1423.1	1449.4	1480.1	1516.6	1547.3	1560.5	1572.2
80°	1149.9	1228.8	1300.4	1370.5	1395.4	1430.4	1474.3	1509.3	1523.9	1537.1
82.5°	1072.5	1161.6	1249.2	1320.8	1348.6	1379.3	1424.6	1464.0	1477.2	1485.9
85°	1005.2	1097.3	1183.5	1256.6	1291.6	1317.9	1369.1	1402.7	1421.7	1429.0
87.5°	933.6	1027.2	1111.9	1190.8	1220.0	1246.3	1298.9	1335.5	1353.0	1357.4
90°	863.5	959.9	1038.8	1107.5	1142.6	1174.7	1222.9	1256.6	1274.1	1274.1
92.5°	774.4	866.4	949.7	1012.5	1046.2	1072.5	1125.1	1149.9	1179.1	1179.1
95°	672.1	752.5	829.9	894.2	922.0	949.7	993.6	1027.2	1043.2	1050.5
97.5°	556.7	618.0	688.2	740.8	778.8	787.5	835.8	869.4	886.9	881.0
100°	419.3	467.6	523.1	566.9	596.1	612.2	645.8	664.8	691.1	694.0
102.5°	312.7	347.7	379.9	404.7	428.1	435.4	458.8	477.8	489.5	502.6
105°	229.4	249.8	268.8	286.4	290.8	303.9	322.9	336.1	328.7	330.2
107.5°	170.9	181.2	191.4	197.2	204.6	213.3	217.7	217.7	225.0	227.9
110°	130.0	135.9	140.3	141.7	144.6	144.6	144.6	144.6	146.1	149.0



TEST NUMBER: P237834

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	103.7	106.7	106.7	106.7	105.2	105.2	103.7	102.3	99.4	102.3
115°	89.1	89.1	86.2	84.7	83.3	81.8	78.9	76.0	74.5	77.4
117.5°	78.9	77.4	76.0	71.6	70.1	68.7	65.7	64.3	61.4	59.9
120°	70.1	70.1	67.2	65.7	64.3	61.4	58.4	57.0	54.1	52.6
122.5°	62.8	62.8	61.4	59.9	58.4	57.0	54.1	52.6	49.7	49.7
125°	54.1	55.5	55.5	54.1	52.6	52.6	49.7	48.2	46.8	46.8
127.5°	46.8	48.2	49.7	49.7	48.2	48.2	46.8	45.3	43.8	42.4
130°	39.4	42.4	42.4	43.8	43.8	42.4	42.4	40.9	39.4	39.4
132.5°	32.1	35.1	36.5	36.5	38.0	38.0	38.0	36.5	36.5	35.1
135°	24.8	27.8	29.2	30.7	30.7	32.1	32.1	30.7	30.7	30.7
137.5°	19.0	20.5	23.4	24.8	24.8	24.8	24.8	24.8	24.8	24.8
140°	11.7	14.6	17.5	17.5	19.0	19.0	19.0	19.0	19.0	19.0
142.5°	5.8	8.8	10.2	11.7	11.7	13.1	13.1	13.1	13.1	13.1
145°	1.5	2.9	4.4	5.8	7.3	7.3	7.3	7.3	7.3	7.3
147.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
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)