

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: P237889

Luminaire Tested: **4VRVT2-LD5-8-DR100-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237889  
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-LD5-8-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: 8076.0 lumens  
Efficiency: N/A  
Efficacy: 138.1 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

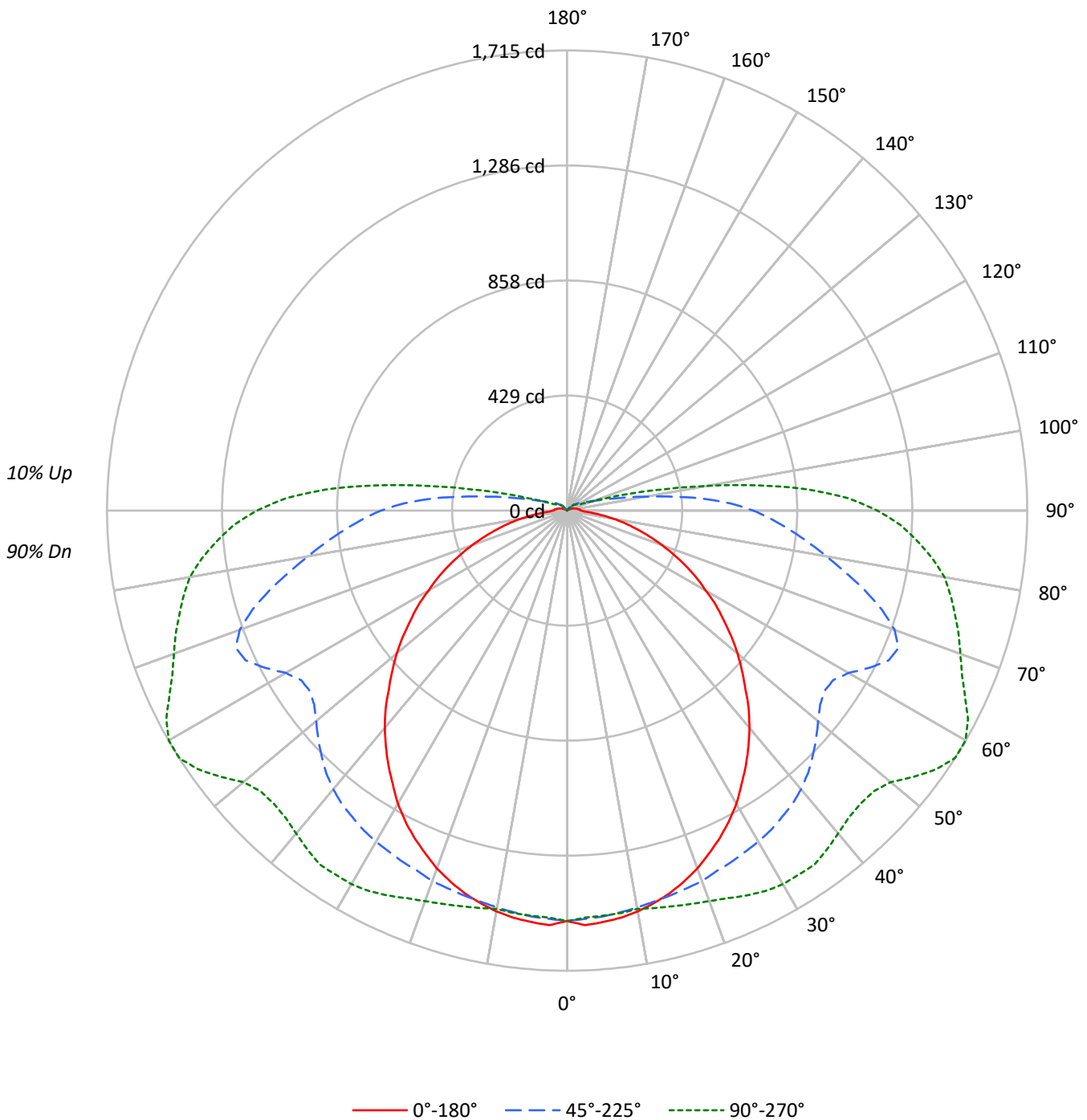
Input Watts (W): 58.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7903	7903	7903
5°	7955	7700	7639
10°	7903	7530	7469
15°	7814	7419	7495
20°	7692	7370	7594
25°	7534	7339	7808
30°	7356	7376	8045
35°	7121	7426	8229
40°	6896	7486	8279
45°	6599	7482	8469
50°	6359	7466	9055
55°	6070	7662	10253
60°	5767	8584	11229
65°	5490	10318	11661
70°	5122	11369	12295
75°	4695	11544	13314
80°	4268	11683	14698
85°	3665	12310	16148



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.1	1.8
10°-20°	423.4	5.2
20°-30°	672.9	8.3
30°-40°	869.9	10.8
40°-50°	981.6	12.2
50°-60°	1076.1	13.3
60°-70°	1148.3	14.2
70°-80°	1076.5	13.3
80°-90°	867.0	10.7
90°-100°	539.9	6.7
100°-110°	175.0	2.2
110°-120°	57.1	0.7
120°-130°	29.2	0.4
130°-140°	12.1	0.1
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1241.5	15.4
0°-40°	2111.3	26.1
0°-60°	4169.0	51.6
0°-90°	7260.9	89.9
90°-120°	772.0	9.6
90°-150°	815.1	10.1
90°-180°	815.0	10.1
0°-180°	8076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1539	1534	1519	1521	1516	146
15°	1477	1477	1485	1523	1526	416
25°	1346	1364	1446	1548	1583	620
35°	1161	1226	1395	1555	1609	726
45°	939	1055	1294	1472	1546	727
55°	712	864	1171	1556	1680	638
65°	488	684	1322	1601	1636	482
75°	270	662	1148	1389	1497	288
85°	90	453	834	1182	1310	92
90°	52	338	693	1029	1156	29
95°	46	235	510	798	903	36
105°	31	85	168	218	244	32
115°	15	38	76	68	58	16
125°	6	13	46	47	40	6
135°	2	0	18	28	26	2
145°	1	0	0	5	5	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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1546.6	1542.3	1539.1	1539.1	1539.1	1538.1	1538.1	1537.0	1534.9	1528.5	1523.2
5°	1539.1	1537.0	1533.8	1533.8	1533.8	1533.8	1533.8	1531.7	1527.5	1523.2	1519.0
7.5°	1530.7	1528.5	1524.3	1525.4	1522.2	1523.2	1522.2	1520.1	1519.0	1515.8	1510.5
10°	1516.9	1514.8	1510.5	1511.6	1509.5	1510.5	1510.5	1511.6	1509.5	1506.3	1502.0
12.5°	1497.8	1496.7	1494.6	1493.6	1495.7	1497.8	1498.9	1496.7	1494.6	1493.6	1492.5
15°	1476.6	1474.5	1472.4	1473.4	1476.6	1476.6	1479.8	1479.8	1479.8	1480.8	1485.1
17.5°	1449.0	1448.0	1445.9	1448.0	1450.1	1451.2	1455.4	1457.5	1458.6	1467.1	1476.6
20°	1419.4	1417.2	1415.1	1417.2	1420.4	1424.7	1428.9	1435.3	1444.8	1458.6	1469.2
22.5°	1382.3	1381.2	1380.1	1382.3	1387.6	1393.9	1401.3	1415.1	1430.0	1444.8	1454.3
25°	1346.2	1344.1	1343.0	1347.3	1357.9	1364.2	1373.8	1391.8	1408.8	1427.8	1445.9
27.5°	1305.9	1299.6	1304.9	1309.1	1322.9	1331.4	1343.0	1366.4	1385.4	1406.6	1434.2
30°	1261.4	1258.2	1258.2	1267.8	1285.8	1298.5	1312.3	1338.8	1361.1	1390.7	1424.7
32.5°	1209.5	1210.5	1212.7	1225.4	1249.8	1264.6	1276.3	1307.0	1335.6	1372.7	1411.9
35°	1160.7	1158.6	1163.9	1181.9	1209.5	1226.4	1242.3	1275.2	1311.2	1352.6	1395.0
37.5°	1109.8	1107.7	1115.1	1136.3	1166.0	1184.0	1202.1	1243.4	1284.7	1331.4	1379.1
40°	1056.8	1056.8	1065.3	1088.6	1121.5	1140.6	1161.8	1208.4	1254.0	1304.9	1355.8
42.5°	1001.7	999.6	1010.2	1042.0	1079.1	1098.2	1123.6	1172.4	1224.3	1275.2	1328.2
45°	939.2	947.7	958.3	990.1	1028.2	1054.7	1084.4	1136.3	1189.3	1243.4	1294.3
47.5°	884.1	890.4	905.3	939.2	983.7	1008.1	1039.9	1095.0	1152.2	1204.2	1258.2
50°	828.9	832.1	852.3	886.2	932.8	963.6	994.3	1050.5	1106.7	1166.0	1221.1
52.5°	771.7	772.8	797.1	830.0	885.1	915.9	944.5	1003.8	1064.3	1125.7	1188.3
55°	712.3	715.5	741.0	777.0	835.3	863.9	895.7	957.2	1022.9	1092.9	1171.3
57.5°	658.3	661.5	685.8	725.1	785.5	816.2	847.0	913.7	985.8	1072.7	1175.6
60°	596.8	605.3	627.5	672.1	733.5	764.3	800.3	874.5	964.6	1080.2	1210.5
62.5°	544.8	547.0	572.4	621.2	685.8	719.8	759.0	849.1	967.8	1113.0	1268.8
65°	487.6	492.9	519.4	574.5	643.4	683.7	730.4	845.9	997.5	1170.3	1321.8
67.5°	430.4	438.8	470.6	531.1	610.6	659.3	718.7	868.2	1045.2	1213.7	1336.7
70°	376.3	386.9	422.9	492.9	588.3	649.8	726.1	901.0	1078.0	1216.9	1298.5
72.5°	322.2	337.1	383.7	464.3	579.8	656.2	743.1	921.2	1070.6	1166.0	1230.7
75°	270.3	287.3	347.7	442.0	578.8	661.5	749.4	902.1	1008.1	1087.6	1148.0
77.5°	223.7	243.8	313.8	424.0	571.3	648.7	719.8	837.4	925.4	999.6	1061.1
80°	176.0	202.5	284.1	400.7	535.3	596.8	655.1	753.7	833.2	908.4	980.5
82.5°	130.4	165.4	252.3	365.7	473.8	528.9	574.5	664.6	745.2	823.6	906.3
85°	90.1	130.4	214.1	311.6	404.9	452.6	497.1	583.0	662.5	745.2	834.2
87.5°	62.5	102.8	178.1	263.9	349.8	390.1	430.4	513.0	592.5	674.2	765.3
90°	51.9	81.6	148.4	223.7	300.0	338.1	376.3	451.6	530.0	608.4	693.3
92.5°	48.8	67.8	121.9	187.6	256.5	288.3	322.2	392.2	462.2	537.4	609.5
95°	45.6	54.1	96.5	149.5	207.8	235.3	263.9	319.1	382.7	444.1	509.9
97.5°	41.3	44.5	74.2	116.6	163.2	186.6	207.8	252.3	302.1	348.7	395.4
100°	38.2	38.2	56.2	89.0	126.1	143.1	161.1	198.2	231.1	266.1	298.9
102.5°	33.9	33.9	43.5	66.8	96.5	110.2	126.1	151.6	176.0	200.3	223.7
105°	30.7	29.7	35.0	51.9	73.1	84.8	96.5	117.7	136.7	152.6	168.5
107.5°	26.5	26.5	28.6	41.3	58.3	67.8	76.3	94.3	109.2	120.8	129.3
110°	22.3	22.3	23.3	32.9	47.7	55.1	63.6	77.4	89.0	98.6	103.9



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CATALOG NUMBER: 4VRVT2-LD5-8-DR100-W-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	19.1	19.1	18.0	26.5	39.2	46.6	53.0	65.7	76.3	82.7	86.9
115°	14.8	14.8	14.8	20.1	31.8	38.2	44.5	56.2	66.8	73.1	76.3
117.5°	12.7	12.7	11.7	14.8	25.4	31.8	37.1	48.8	57.2	64.7	67.8
120°	9.5	9.5	9.5	9.5	19.1	25.4	30.7	41.3	49.8	56.2	59.4
122.5°	7.4	7.4	7.4	6.4	13.8	19.1	24.4	33.9	42.4	48.8	53.0
125°	6.4	5.3	5.3	5.3	8.5	12.7	18.0	26.5	33.9	41.3	45.6
127.5°	5.3	4.2	4.2	4.2	4.2	7.4	11.7	20.1	27.6	33.9	38.2
130°	4.2	3.2	3.2	3.2	2.1	4.2	7.4	13.8	21.2	26.5	30.7
132.5°	3.2	3.2	2.1	2.1	1.1	1.1	3.2	8.5	14.8	20.1	24.4
135°	2.1	2.1	2.1	1.1	1.1	0.0	0.0	4.2	9.5	13.8	18.0
137.5°	2.1	2.1	1.1	1.1	0.0	0.0	0.0	1.1	4.2	8.5	12.7
140°	2.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	4.2	7.4
142.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
145°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.1	1.1	1.1	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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1523.2	1524.3	1525.4	1525.4	1524.3	1524.3	1523.2	1521.1	1519.0	1517.9
5°	1515.8	1519.0	1521.1	1521.1	1521.1	1520.1	1520.1	1519.0	1516.9	1515.8
7.5°	1509.5	1514.8	1516.9	1515.8	1515.8	1515.8	1515.8	1516.9	1514.8	1513.7
10°	1503.1	1507.3	1511.6	1512.6	1513.7	1512.6	1512.6	1510.5	1509.5	1507.3
12.5°	1496.7	1504.2	1510.5	1515.8	1515.8	1515.8	1517.9	1521.1	1520.1	1516.9
15°	1491.4	1504.2	1511.6	1520.1	1523.2	1526.4	1527.5	1529.6	1526.4	1526.4
17.5°	1488.3	1505.2	1515.8	1524.3	1525.4	1529.6	1536.0	1539.1	1538.1	1537.0
20°	1483.0	1503.1	1517.9	1525.4	1530.7	1536.0	1544.4	1546.6	1548.7	1548.7
22.5°	1476.6	1498.9	1513.7	1530.7	1539.1	1544.4	1556.1	1562.5	1564.6	1563.5
25°	1471.3	1496.7	1519.0	1539.1	1547.6	1554.0	1568.8	1580.5	1582.6	1582.6
27.5°	1466.0	1495.7	1522.2	1548.7	1559.3	1566.7	1581.5	1593.2	1597.4	1598.5
30°	1460.7	1493.6	1525.4	1551.9	1564.6	1572.0	1589.0	1599.6	1608.0	1608.0
32.5°	1451.2	1491.4	1523.2	1551.9	1562.5	1575.2	1591.1	1602.7	1609.1	1608.0
35°	1441.6	1478.7	1514.8	1543.4	1555.0	1567.8	1586.8	1600.6	1604.9	1609.1
37.5°	1425.7	1464.9	1501.0	1529.6	1546.6	1557.2	1574.1	1584.7	1593.2	1591.1
40°	1404.5	1443.7	1480.8	1508.4	1523.2	1536.0	1555.0	1564.6	1572.0	1570.9
42.5°	1373.8	1418.3	1453.3	1483.0	1498.9	1511.6	1534.9	1543.4	1551.9	1552.9
45°	1343.0	1386.5	1425.7	1457.5	1472.4	1487.2	1515.8	1531.7	1542.3	1545.5
47.5°	1305.9	1354.7	1399.2	1442.7	1463.9	1483.0	1512.6	1534.9	1546.6	1548.7
50°	1275.2	1335.6	1390.7	1441.6	1468.1	1489.3	1529.6	1556.1	1568.8	1574.1
52.5°	1257.2	1330.3	1402.4	1468.1	1499.9	1526.4	1576.2	1605.9	1627.1	1629.2
55°	1260.4	1352.6	1442.7	1524.3	1556.1	1589.0	1634.5	1662.1	1680.1	1680.1
57.5°	1292.2	1402.4	1506.3	1581.5	1613.3	1638.8	1681.2	1699.2	1711.9	1715.1
60°	1349.4	1466.0	1556.1	1621.8	1643.0	1663.2	1686.5	1706.6	1711.9	1714.0
62.5°	1405.6	1505.2	1576.2	1621.8	1634.5	1651.5	1668.5	1680.1	1684.4	1684.4
65°	1435.3	1509.5	1552.9	1586.8	1600.6	1605.9	1623.9	1628.2	1637.7	1635.6
67.5°	1417.2	1464.9	1499.9	1528.5	1539.1	1549.7	1570.9	1581.5	1590.0	1592.1
70°	1355.8	1393.9	1431.0	1467.1	1480.8	1498.9	1524.3	1544.4	1554.0	1559.3
72.5°	1280.5	1326.1	1373.8	1417.2	1439.5	1456.5	1488.3	1514.8	1524.3	1529.6
75°	1203.1	1257.2	1312.3	1365.3	1388.6	1410.9	1449.0	1474.5	1491.4	1496.7
77.5°	1125.7	1191.5	1258.2	1318.7	1347.3	1370.6	1414.1	1441.6	1461.8	1463.9
80°	1053.7	1132.1	1206.3	1271.0	1299.6	1327.1	1370.6	1402.4	1413.0	1427.8
82.5°	990.1	1071.7	1146.9	1214.8	1246.6	1271.0	1316.5	1349.4	1365.3	1373.8
85°	921.2	1006.0	1082.3	1149.1	1181.9	1211.6	1254.0	1284.7	1307.0	1310.2
87.5°	851.2	936.0	1014.4	1083.3	1116.2	1143.8	1188.3	1218.0	1238.1	1244.5
90°	777.0	857.6	932.8	1001.7	1029.3	1057.9	1100.3	1134.2	1155.4	1156.5
92.5°	688.0	765.3	834.2	898.9	931.8	953.0	993.2	1028.2	1043.1	1049.4
95°	574.5	645.6	711.3	765.3	798.2	817.3	856.5	881.9	898.9	903.1
97.5°	450.5	505.6	558.6	606.3	630.7	646.6	678.4	700.7	726.1	719.8
100°	339.2	369.9	408.1	438.8	456.9	467.5	490.8	505.6	520.5	528.9
102.5°	245.9	269.2	286.2	302.1	314.8	325.4	343.4	348.7	353.0	363.6
105°	180.2	191.9	201.4	213.1	218.4	221.5	229.0	234.3	234.3	243.8
107.5°	135.7	141.0	145.2	151.6	151.6	154.8	154.8	155.8	159.0	156.9
110°	107.1	108.1	109.2	108.1	109.2	108.1	107.1	106.0	106.0	104.9





TEST NUMBER: P237889

CATALOG NUMBER: 4VRVT2-LD5-8-DR100-W-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	89.0	88.0	86.9	83.7	82.7	80.6	79.5	77.4	75.3	75.3
115°	76.3	75.3	73.1	70.0	67.8	65.7	64.7	61.5	59.4	58.3
117.5°	67.8	66.8	64.7	61.5	60.4	58.3	56.2	53.0	50.9	49.8
120°	61.5	61.5	59.4	56.2	55.1	54.1	50.9	48.8	46.6	45.6
122.5°	55.1	55.1	54.1	51.9	50.9	49.8	47.7	45.6	43.5	43.5
125°	47.7	48.8	48.8	47.7	46.6	45.6	44.5	42.4	41.3	40.3
127.5°	41.3	42.4	43.5	43.5	42.4	42.4	40.3	39.2	38.2	38.2
130°	33.9	37.1	38.2	38.2	38.2	38.2	37.1	36.0	35.0	35.0
132.5°	27.6	29.7	31.8	32.9	32.9	32.9	31.8	31.8	30.7	30.7
135°	21.2	23.3	25.4	26.5	27.6	27.6	27.6	27.6	26.5	26.5
137.5°	15.9	18.0	20.1	21.2	21.2	22.3	22.3	22.3	21.2	21.2
140°	9.5	12.7	13.8	14.8	15.9	15.9	17.0	17.0	15.9	15.9
142.5°	5.3	7.4	8.5	9.5	10.6	10.6	11.7	10.6	10.6	10.6
145°	1.1	2.1	4.2	5.3	5.3	5.3	5.3	6.4	5.3	5.3
147.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	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)