

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: P237822

Luminaire Tested: **8VT2-LD5-9-DR-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8VT2-LD5-9-DR-W-UNV-L840-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% 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: 8665.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.6 / 1.58  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Semi-Direct

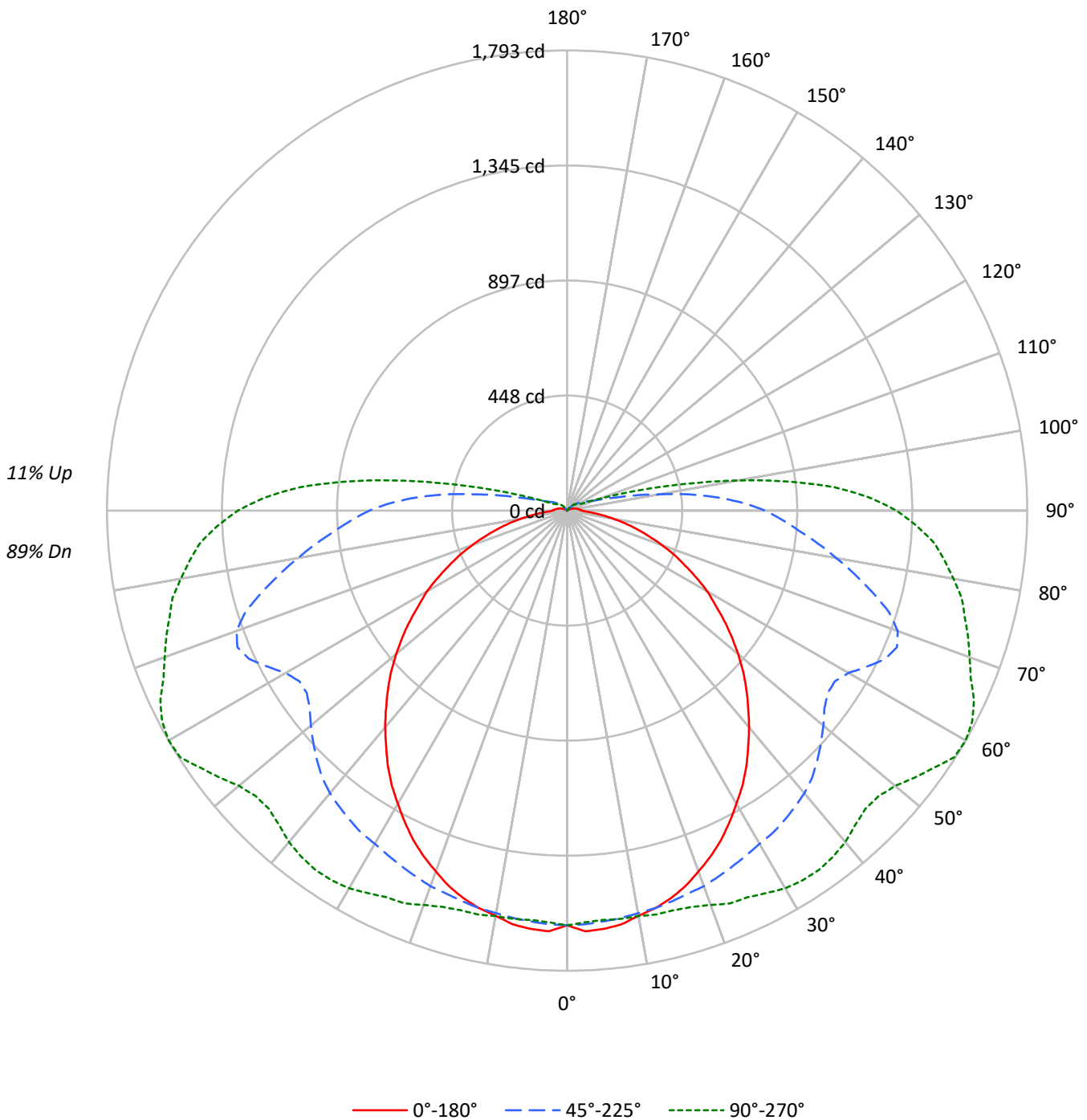
Input Watts (W): 65.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	75	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	51	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	33	26	21	31	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°	4174	4174	4174
5°	4236	4078	4035
10°	4189	4001	3975
15°	4159	3951	3957
20°	4083	3925	4008
25°	4002	3901	4102
30°	3891	3908	4251
35°	3785	3957	4371
40°	3659	4008	4443
45°	3537	4027	4504
50°	3412	4036	4799
55°	3269	4112	5327
60°	3152	4562	5872
65°	2972	5443	6234
70°	2814	6138	6578
75°	2646	6361	7135
80°	2421	6556	7866
85°	2396	6975	8841



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.8	1.8
10°-20°	448.3	5.2
20°-30°	710.7	8.2
30°-40°	920.4	10.6
40°-50°	1042.1	12.0
50°-60°	1131.6	13.1
60°-70°	1209.9	14.0
70°-80°	1151.8	13.3
80°-90°	946.1	10.9
90°-100°	622.4	7.2
100°-110°	216.3	2.5
110°-120°	64.0	0.7
120°-130°	31.8	0.4
130°-140°	13.5	0.2
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°	1312.8	15.2
0°-40°	2233.2	25.8
0°-60°	4406.9	50.9
0°-90°	7714.7	89.0
90°-120°	902.8	10.4
90°-150°	950.3	11.0
90°-180°	950.0	11.0
0°-180°	8665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1636	1626	1607	1609	1601	155
15°	1563	1565	1576	1612	1612	440
25°	1417	1446	1528	1630	1663	652
35°	1217	1293	1474	1651	1709	760
45°	988	1113	1378	1576	1644	762
55°	747	915	1239	1623	1746	668
65°	507	722	1368	1692	1749	505
75°	285	687	1232	1500	1604	300
85°	99	497	907	1293	1435	99
90°	56	370	770	1156	1283	32
95°	48	264	589	912	1045	38
105°	32	94	199	276	327	33
115°	16	42	83	77	66	16
125°	6	15	50	51	44	6
135°	3	0	20	31	29	2
145°	2	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: P237822

CATALOG NUMBER: 8VT2-LD5-9-DR-W-UNV-L840-CD1-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9
2.5°	1640.7	1636.3	1631.9	1630.5	1630.5	1630.5	1630.5	1627.6	1623.2	1618.8	1613.0
5°	1636.3	1633.4	1629.0	1626.1	1626.1	1626.1	1626.1	1623.2	1618.8	1613.0	1607.1
7.5°	1626.1	1621.7	1615.9	1614.4	1613.0	1613.0	1614.4	1613.0	1608.6	1605.6	1601.3
10°	1602.7	1601.3	1596.9	1595.4	1598.3	1599.8	1599.8	1599.8	1598.3	1595.4	1592.5
12.5°	1586.7	1580.8	1577.9	1579.3	1580.8	1580.8	1583.7	1585.2	1585.2	1586.7	1586.7
15°	1563.3	1557.4	1556.0	1560.4	1561.8	1564.7	1564.7	1567.7	1569.1	1573.5	1576.4
17.5°	1534.1	1532.6	1526.8	1531.1	1538.4	1542.8	1542.8	1548.7	1553.1	1557.4	1564.7
20°	1496.1	1494.6	1491.7	1497.5	1506.3	1510.7	1518.0	1526.8	1532.6	1548.7	1557.4
22.5°	1459.5	1458.1	1453.7	1462.5	1471.2	1481.5	1490.2	1501.9	1515.1	1529.7	1542.8
25°	1417.2	1415.7	1414.3	1428.9	1439.1	1446.4	1456.6	1474.2	1490.2	1510.7	1528.2
27.5°	1369.0	1370.4	1373.3	1386.5	1402.6	1412.8	1423.0	1447.9	1465.4	1487.3	1513.6
30°	1319.3	1319.3	1328.1	1341.2	1364.6	1374.8	1388.0	1417.2	1434.7	1468.3	1499.0
32.5°	1271.1	1271.1	1275.5	1291.5	1322.2	1335.4	1351.4	1379.2	1408.4	1449.3	1490.2
35°	1217.0	1217.0	1225.8	1247.7	1278.4	1293.0	1310.5	1345.6	1382.1	1428.9	1474.2
37.5°	1158.6	1161.5	1176.1	1199.5	1236.0	1255.0	1269.6	1309.1	1354.4	1405.5	1456.6
40°	1103.1	1106.0	1123.5	1149.8	1189.3	1206.8	1225.8	1275.5	1322.2	1377.7	1437.6
42.5°	1044.6	1053.4	1069.5	1100.1	1138.1	1157.1	1183.4	1234.6	1287.1	1347.0	1412.8
45°	987.6	994.9	1012.5	1047.5	1089.9	1113.3	1141.0	1195.1	1253.5	1313.4	1377.7
47.5°	930.7	936.5	958.4	992.0	1037.3	1068.0	1097.2	1154.2	1217.0	1284.2	1341.2
50°	869.3	876.6	898.5	935.0	986.2	1016.9	1046.1	1108.9	1173.2	1240.4	1303.2
52.5°	807.9	815.2	844.5	885.4	938.0	965.7	999.3	1066.5	1130.8	1199.5	1263.8
55°	746.6	755.3	786.0	822.5	881.0	914.6	945.3	1016.9	1087.0	1160.0	1238.9
57.5°	683.8	696.9	724.7	770.0	825.5	860.5	894.1	970.1	1044.6	1133.7	1237.5
60°	631.2	635.5	663.3	711.5	772.9	807.9	847.4	924.8	1018.3	1132.3	1265.2
62.5°	568.3	582.9	606.3	656.0	718.8	762.6	802.1	897.1	1012.5	1164.4	1316.4
65°	507.0	521.6	550.8	604.9	677.9	721.7	768.5	886.8	1035.9	1212.6	1367.5
67.5°	452.9	464.6	496.7	559.6	641.4	691.1	753.9	901.4	1079.7	1257.9	1390.9
70°	393.0	407.6	445.6	517.2	618.0	679.4	756.8	933.6	1116.2	1271.1	1370.4
72.5°	334.6	353.6	401.8	486.5	604.9	680.8	771.4	955.5	1120.6	1236.0	1314.9
75°	284.9	301.0	360.9	460.2	601.9	686.7	780.2	946.7	1075.3	1158.6	1231.6
77.5°	232.3	254.2	330.2	442.7	596.1	680.8	759.7	892.7	997.9	1078.2	1148.4
80°	181.2	213.3	296.6	419.3	568.3	632.6	696.9	809.4	907.3	989.1	1065.1
82.5°	138.8	173.9	264.4	387.2	508.4	566.9	623.9	724.7	812.3	904.4	986.2
85°	99.3	138.8	230.8	337.5	441.2	496.7	542.0	637.0	721.7	816.7	907.3
87.5°	68.7	109.6	189.9	284.9	379.9	423.7	469.0	559.6	648.7	745.1	840.1
90°	55.5	89.1	159.2	244.0	328.7	369.6	414.9	501.1	584.4	676.4	770.0
92.5°	52.6	73.1	133.0	204.5	282.0	321.4	357.9	435.4	517.2	606.3	685.2
95°	48.2	58.4	106.7	166.6	230.8	264.4	296.6	365.3	436.8	517.2	588.8
97.5°	43.8	48.2	81.8	128.6	182.6	210.4	236.7	289.3	353.6	410.5	482.1
100°	39.4	40.9	61.4	99.3	138.8	162.2	182.6	229.4	271.7	317.0	363.8
102.5°	35.1	35.1	46.8	74.5	108.1	122.7	140.3	173.9	206.0	235.2	273.2
105°	32.1	32.1	38.0	55.5	80.4	93.5	106.7	133.0	157.8	178.2	198.7
107.5°	27.8	27.8	30.7	43.8	62.8	74.5	83.3	103.7	122.7	137.3	149.0
110°	23.4	23.4	23.4	35.1	51.1	59.9	70.1	86.2	99.3	109.6	116.9



TEST NUMBER: P237822

CATALOG NUMBER: 8VT2-LD5-9-DR-W-UNV-L840-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	19.0	19.0	19.0	29.2	42.4	49.7	58.4	71.6	83.3	90.6	96.4
115°	16.1	16.1	14.6	21.9	35.1	42.4	49.7	61.4	71.6	78.9	83.3
117.5°	13.1	13.1	11.7	16.1	27.8	35.1	40.9	52.6	62.8	70.1	73.1
120°	10.2	10.2	8.8	10.2	21.9	27.8	35.1	45.3	54.1	61.4	65.7
122.5°	7.3	7.3	7.3	7.3	14.6	20.5	26.3	36.5	46.8	54.1	58.4
125°	5.8	5.8	5.8	4.4	10.2	14.6	20.5	30.7	38.0	45.3	49.7
127.5°	4.4	4.4	4.4	4.4	4.4	8.8	13.1	23.4	30.7	38.0	42.4
130°	4.4	4.4	2.9	2.9	2.9	4.4	8.8	16.1	23.4	29.2	35.1
132.5°	2.9	2.9	2.9	1.5	1.5	1.5	4.4	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	1.5	0.0	0.0	0.0	0.0	1.5	5.8	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	1.5	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°	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9	1615.9
2.5°	1611.5	1613.0	1614.4	1614.4	1613.0	1613.0	1610.0	1610.0	1607.1	1605.6
5°	1605.6	1608.6	1610.0	1610.0	1608.6	1608.6	1607.1	1605.6	1602.7	1601.3
7.5°	1601.3	1605.6	1608.6	1608.6	1608.6	1608.6	1607.1	1607.1	1605.6	1604.2
10°	1595.4	1599.8	1604.2	1610.0	1611.5	1611.5	1610.0	1608.6	1605.6	1604.2
12.5°	1589.6	1595.4	1601.3	1607.1	1608.6	1610.0	1613.0	1613.0	1611.5	1611.5
15°	1583.7	1594.0	1602.7	1610.0	1611.5	1615.9	1617.3	1618.8	1615.9	1611.5
17.5°	1577.9	1591.0	1598.3	1610.0	1613.0	1615.9	1618.8	1620.3	1620.3	1618.8
20°	1572.0	1588.1	1601.3	1613.0	1615.9	1620.3	1626.1	1630.5	1634.9	1634.9
22.5°	1563.3	1583.7	1598.3	1615.9	1626.1	1630.5	1642.2	1648.0	1650.9	1656.8
25°	1551.6	1573.5	1602.7	1623.2	1630.5	1639.3	1656.8	1665.5	1665.5	1662.6
27.5°	1545.7	1579.3	1608.6	1629.0	1639.3	1649.5	1665.5	1678.7	1683.1	1680.2
30°	1538.4	1575.0	1608.6	1634.9	1646.6	1659.7	1675.8	1696.2	1699.2	1699.2
32.5°	1529.7	1569.1	1608.6	1637.8	1652.4	1664.1	1683.1	1702.1	1709.4	1707.9
35°	1520.9	1564.7	1602.7	1634.9	1650.9	1665.5	1687.5	1702.1	1707.9	1709.4
37.5°	1507.8	1554.5	1592.5	1627.6	1645.1	1658.2	1681.6	1691.8	1700.6	1700.6
40°	1488.8	1537.0	1579.3	1613.0	1626.1	1639.3	1661.2	1672.9	1680.2	1686.0
42.5°	1466.9	1513.6	1554.5	1583.7	1601.3	1611.5	1636.3	1648.0	1659.7	1661.2
45°	1433.2	1484.4	1523.8	1560.4	1576.4	1586.7	1614.4	1633.4	1643.6	1643.6
47.5°	1398.2	1446.4	1493.1	1538.4	1557.4	1575.0	1607.1	1630.5	1642.2	1646.6
50°	1358.7	1418.6	1474.2	1532.6	1557.4	1579.3	1617.3	1643.6	1658.2	1668.5
52.5°	1333.9	1411.3	1480.0	1548.7	1576.4	1605.6	1653.9	1681.6	1702.1	1707.9
55°	1331.0	1424.5	1509.2	1591.0	1623.2	1650.9	1702.1	1732.8	1748.8	1745.9
57.5°	1352.9	1466.9	1566.2	1640.7	1675.8	1702.1	1748.8	1776.6	1788.3	1788.3
60°	1401.1	1522.4	1618.8	1684.5	1712.3	1737.1	1770.7	1789.7	1795.6	1792.7
62.5°	1450.8	1561.8	1642.2	1696.2	1716.7	1728.4	1756.1	1770.7	1776.6	1779.5
65°	1490.2	1580.8	1636.3	1675.8	1691.8	1703.5	1725.4	1743.0	1745.9	1748.8
67.5°	1485.8	1548.7	1598.3	1634.9	1648.0	1659.7	1681.6	1694.8	1705.0	1702.1
70°	1444.9	1494.6	1541.4	1579.3	1594.0	1610.0	1636.3	1656.8	1661.2	1668.5
72.5°	1373.3	1424.5	1481.5	1519.4	1545.7	1561.8	1594.0	1620.3	1630.5	1637.8
75°	1298.8	1358.7	1415.7	1472.7	1500.5	1526.8	1564.7	1583.7	1608.6	1604.2
77.5°	1219.9	1297.4	1364.6	1428.9	1458.1	1485.8	1525.3	1551.6	1567.7	1575.0
80°	1152.7	1234.6	1309.1	1377.7	1405.5	1437.6	1478.5	1506.3	1523.8	1528.2
82.5°	1076.8	1165.9	1250.6	1322.2	1351.4	1379.2	1425.9	1455.2	1477.1	1482.9
85°	1002.3	1097.2	1184.9	1262.3	1293.0	1323.7	1373.3	1405.5	1425.9	1434.7
87.5°	939.4	1028.5	1117.7	1190.7	1227.2	1256.5	1306.1	1344.1	1363.1	1363.1
90°	862.0	952.6	1041.7	1114.7	1155.7	1176.1	1225.8	1260.8	1284.2	1282.8
92.5°	780.2	866.4	940.9	1013.9	1047.5	1073.8	1126.4	1152.7	1173.2	1177.6
95°	669.1	746.6	824.0	885.4	911.7	952.6	992.0	1025.6	1038.8	1044.6
97.5°	539.1	616.5	670.6	745.1	762.6	790.4	831.3	859.1	872.2	867.8
100°	413.5	464.6	507.0	553.7	581.5	599.0	634.1	661.8	676.4	675.0
102.5°	293.7	334.6	365.3	401.8	404.7	420.8	442.7	470.4	476.3	483.6
105°	217.7	233.8	257.1	270.3	276.1	295.1	299.5	311.2	312.7	327.3
107.5°	162.2	170.9	179.7	187.0	191.4	192.9	204.5	203.1	206.0	208.9
110°	122.7	127.1	133.0	130.0	135.9	131.5	134.4	133.0	134.4	134.4





TEST NUMBER: P237822

CATALOG NUMBER: 8VT2-LD5-9-DR-W-UNV-L840-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	99.3	99.3	97.9	96.4	96.4	95.0	95.0	90.6	92.0	90.6
115°	84.7	83.3	80.4	77.4	77.4	74.5	73.1	68.7	67.2	65.7
117.5°	74.5	73.1	70.1	67.2	65.7	64.3	61.4	57.0	55.5	55.5
120°	67.2	65.7	64.3	61.4	59.9	58.4	54.1	52.6	49.7	49.7
122.5°	59.9	59.9	58.4	55.5	55.5	54.1	51.1	48.2	46.8	46.8
125°	52.6	54.1	52.6	51.1	51.1	49.7	48.2	45.3	43.8	43.8
127.5°	45.3	46.8	46.8	46.8	46.8	45.3	43.8	42.4	40.9	40.9
130°	38.0	40.9	40.9	40.9	42.4	40.9	40.9	39.4	38.0	38.0
132.5°	30.7	33.6	35.1	36.5	36.5	36.5	35.1	35.1	33.6	33.6
135°	23.4	26.3	29.2	29.2	30.7	30.7	30.7	30.7	29.2	29.2
137.5°	17.5	20.5	21.9	23.4	23.4	24.8	24.8	24.8	23.4	23.4
140°	11.7	14.6	16.1	17.5	17.5	19.0	19.0	19.0	17.5	17.5
142.5°	5.8	8.8	10.2	11.7	11.7	11.7	13.1	13.1	13.1	11.7
145°	1.5	2.9	4.4	5.8	5.8	5.8	7.3	7.3	7.3	5.8
147.5°	0.0	0.0	0.0	1.5	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)