

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: P237835

Luminaire Tested: **8VT2-LD5-9-DR100-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237835  
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: 8VT2-LD5-9-DR100-W-UNV-L850-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION  
8FT FIXTURE  
Light Source: (224) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9207.0 lumens  
Efficiency: N/A  
Efficacy: 140.1 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

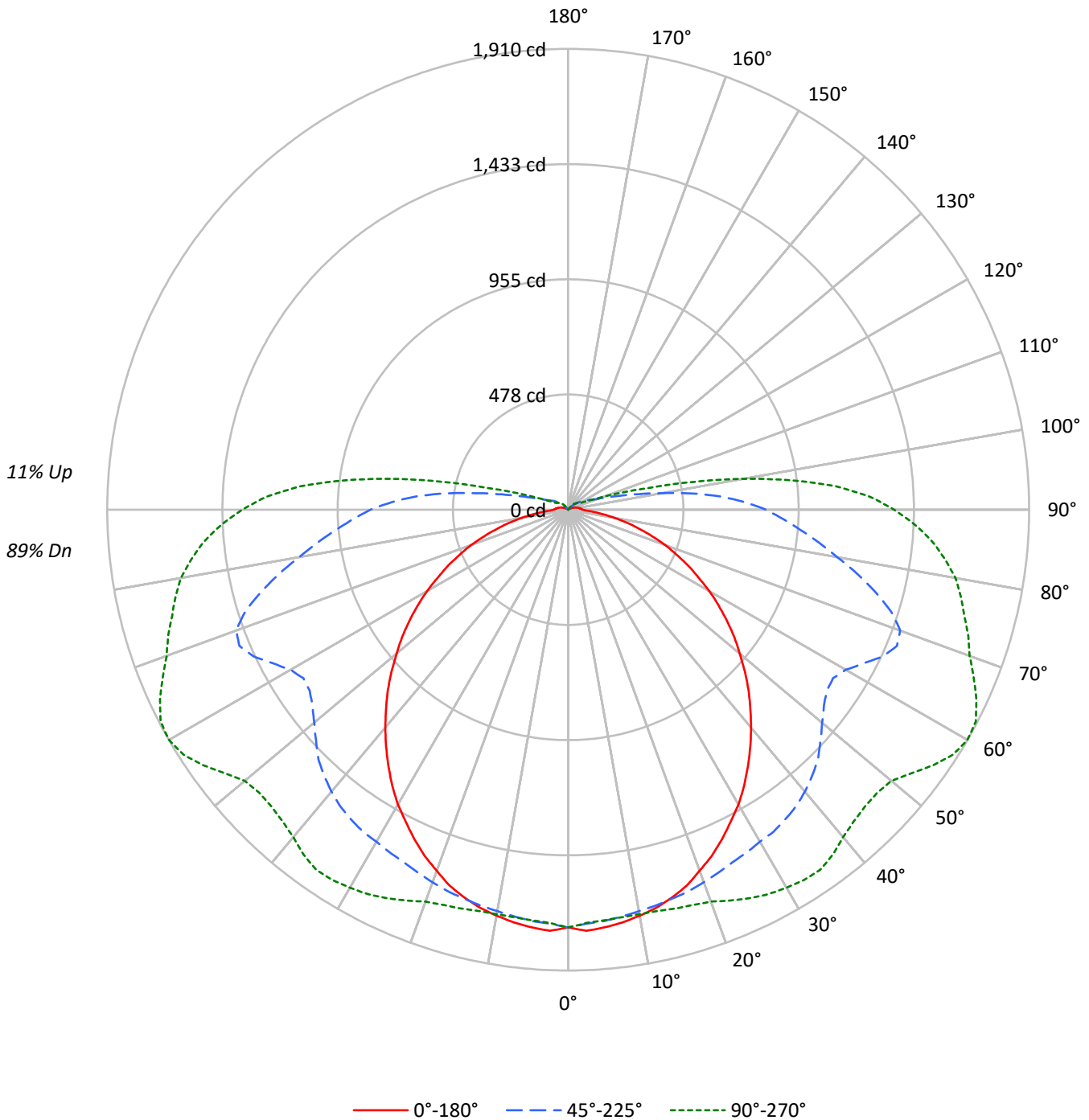
Input Watts (W): 65.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4473	4473	4473
5°	4498	4343	4304
10°	4465	4245	4217
15°	4425	4181	4202
20°	4345	4141	4237
25°	4256	4116	4382
30°	4161	4142	4525
35°	4037	4207	4657
40°	3909	4253	4669
45°	3783	4278	4765
50°	3642	4254	5029
55°	3513	4339	5633
60°	3372	4786	6255
65°	3214	5727	6652
70°	3061	6555	6979
75°	2805	6808	7557
80°	2587	6959	8386
85°	2540	7429	9334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.6	1.8
10°-20°	475.5	5.2
20°-30°	754.1	8.2
30°-40°	977.5	10.6
40°-50°	1102.8	12.0
50°-60°	1194.6	13.0
60°-70°	1285.0	14.0
70°-80°	1223.4	13.3
80°-90°	1002.9	10.9
90°-100°	664.0	7.2
100°-110°	238.9	2.6
110°-120°	72.5	0.8
120°-130°	35.2	0.4
130°-140°	14.7	0.2
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°	1393.1	15.1
0°-40°	2370.7	25.7
0°-60°	4668.0	50.7
0°-90°	8179.3	88.8
90°-120°	975.3	10.6
90°-150°	1027.7	11.2
90°-180°	1028.0	11.2
0°-180°	9207.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1738	1730	1711	1714	1708	165
15°	1663	1660	1668	1702	1711	469
25°	1507	1529	1612	1741	1776	694
35°	1298	1369	1567	1758	1821	812
45°	1056	1182	1464	1659	1739	814
55°	802	976	1307	1704	1846	718
65°	548	765	1439	1814	1866	543
75°	302	726	1318	1591	1699	324
85°	105	527	966	1369	1515	105
90°	59	400	819	1211	1350	34
95°	51	285	630	977	1114	41
105°	34	105	222	308	350	37
115°	17	46	93	88	82	18
125°	6	16	54	56	50	6
135°	3	0	22	32	32	2
145°	2	0	0	8	8	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°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5
2.5°	1747.0	1743.9	1739.2	1737.7	1737.7	1737.7	1737.7	1734.6	1730.0	1723.8	1717.6
5°	1737.7	1734.6	1730.0	1730.0	1728.4	1730.0	1730.0	1726.9	1723.8	1717.6	1711.4
7.5°	1725.3	1723.8	1717.6	1714.5	1714.5	1714.5	1717.6	1714.5	1712.9	1706.7	1700.5
10°	1708.3	1705.2	1702.1	1702.1	1703.6	1703.6	1703.6	1705.2	1702.1	1694.3	1689.7
12.5°	1689.7	1685.0	1681.9	1681.9	1683.5	1683.5	1685.0	1685.0	1685.0	1680.4	1680.4
15°	1663.4	1661.8	1655.6	1657.2	1657.2	1660.3	1661.8	1663.4	1661.8	1666.5	1668.0
17.5°	1633.9	1632.4	1626.2	1626.2	1629.3	1630.8	1635.5	1641.7	1644.8	1651.0	1658.7
20°	1592.1	1592.1	1589.0	1592.1	1598.3	1601.4	1604.5	1615.3	1621.5	1633.9	1643.2
22.5°	1553.4	1550.3	1550.3	1553.4	1559.6	1567.3	1573.5	1589.0	1599.9	1615.3	1627.7
25°	1506.9	1505.4	1503.8	1511.6	1520.9	1528.6	1539.5	1558.0	1573.5	1592.1	1612.2
27.5°	1457.4	1455.8	1458.9	1465.1	1482.2	1493.0	1502.3	1527.1	1545.7	1575.1	1601.4
30°	1410.9	1406.3	1409.4	1418.7	1440.3	1455.8	1465.1	1493.0	1519.3	1553.4	1589.0
32.5°	1356.7	1352.1	1358.3	1372.2	1397.0	1412.5	1429.5	1458.9	1489.9	1531.7	1582.8
35°	1297.9	1299.4	1302.5	1324.2	1350.5	1369.1	1386.1	1424.8	1463.6	1514.7	1567.3
37.5°	1239.0	1235.9	1248.3	1273.1	1304.0	1327.3	1344.3	1384.6	1438.8	1494.5	1550.3
40°	1178.6	1181.7	1191.0	1218.9	1251.4	1280.8	1299.4	1352.1	1410.9	1468.2	1525.5
42.5°	1116.6	1124.4	1133.7	1166.2	1206.5	1229.7	1257.6	1314.9	1376.8	1437.2	1496.1
45°	1056.2	1062.4	1076.4	1112.0	1150.7	1181.7	1212.7	1273.1	1341.2	1404.7	1463.6
47.5°	992.7	998.9	1017.5	1054.7	1098.1	1132.1	1164.7	1229.7	1299.4	1364.4	1417.1
50°	927.7	937.0	955.6	992.7	1050.1	1081.0	1113.6	1184.8	1249.8	1313.3	1373.7
52.5°	867.3	871.9	901.4	937.0	995.8	1031.5	1062.4	1135.2	1197.2	1268.4	1335.0
55°	802.3	811.5	837.9	873.5	938.5	975.7	1011.3	1081.0	1150.7	1225.1	1307.1
57.5°	738.8	746.5	774.4	814.6	884.3	920.0	954.0	1029.9	1101.2	1194.1	1300.9
60°	675.3	684.5	712.4	758.9	828.6	865.8	901.4	981.9	1074.8	1189.4	1327.3
62.5°	608.7	624.1	644.3	701.6	772.8	810.0	853.4	946.3	1068.6	1214.2	1378.4
65°	548.3	556.0	587.0	645.8	721.7	765.1	814.6	933.9	1088.8	1266.9	1438.8
67.5°	484.8	495.6	529.7	594.7	679.9	731.0	793.0	946.3	1135.2	1324.2	1474.4
70°	427.5	435.2	477.0	548.3	650.5	717.1	793.0	977.3	1180.1	1345.9	1463.6
72.5°	364.0	376.3	427.5	514.2	638.1	718.6	808.4	1009.8	1189.4	1316.4	1403.2
75°	302.0	320.6	387.2	486.3	635.0	726.4	822.4	1005.1	1146.1	1242.1	1318.0
77.5°	250.9	274.1	348.5	467.7	628.8	718.6	806.9	950.9	1064.0	1155.4	1226.6
80°	193.6	229.2	315.9	444.5	600.9	678.4	749.6	873.5	964.9	1053.1	1130.6
82.5°	147.1	187.4	281.9	408.9	543.6	608.7	664.4	774.4	870.4	954.0	1048.5
85°	105.3	148.7	243.2	356.2	469.3	526.6	577.7	681.4	775.9	870.4	966.4
87.5°	72.8	116.2	206.0	305.1	405.8	452.2	501.8	600.9	693.8	785.2	890.5
90°	58.9	94.5	171.9	261.7	348.5	399.6	442.9	532.8	625.7	721.7	819.3
92.5°	55.8	79.0	144.0	221.5	302.0	343.8	384.1	466.2	552.9	642.7	729.5
95°	51.1	63.5	113.1	179.7	247.8	285.0	317.5	394.9	467.7	546.7	630.3
97.5°	48.0	51.1	86.7	139.4	196.7	227.7	254.0	314.4	379.4	439.8	515.7
100°	43.4	44.9	66.6	108.4	150.2	176.6	198.2	247.8	294.3	342.3	393.4
102.5°	38.7	38.7	51.1	80.5	117.7	134.7	153.3	193.6	227.7	258.6	297.4
105°	34.1	34.1	40.3	61.9	88.3	105.3	117.7	147.1	173.5	196.7	221.5
107.5°	31.0	29.4	32.5	48.0	69.7	82.1	94.5	116.2	136.3	151.8	168.8
110°	24.8	24.8	26.3	38.7	57.3	66.6	77.4	94.5	111.5	122.4	131.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	21.7	20.1	20.1	31.0	46.5	55.8	63.5	80.5	94.5	103.8	108.4
115°	17.0	17.0	15.5	23.2	37.2	46.5	52.7	68.1	80.5	88.3	92.9
117.5°	13.9	13.9	13.9	17.0	31.0	37.2	44.9	58.9	69.7	77.4	82.1
120°	10.8	10.8	10.8	10.8	23.2	29.4	37.2	49.6	60.4	68.1	72.8
122.5°	9.3	7.7	7.7	7.7	15.5	23.2	27.9	40.3	51.1	58.9	65.0
125°	6.2	6.2	6.2	4.6	10.8	15.5	21.7	32.5	41.8	49.6	54.2
127.5°	4.6	4.6	4.6	4.6	4.6	9.3	13.9	24.8	34.1	41.8	46.5
130°	4.6	4.6	3.1	3.1	1.5	4.6	7.7	17.0	24.8	32.5	38.7
132.5°	3.1	3.1	3.1	1.5	1.5	1.5	3.1	10.8	18.6	24.8	29.4
135°	3.1	3.1	1.5	1.5	0.0	0.0	0.0	6.2	12.4	17.0	21.7
137.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	1.5	6.2	10.8	15.5
140°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	1.5	4.6	9.3
142.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1
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°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5
2.5°	1717.6	1720.7	1720.7	1720.7	1720.7	1720.7	1717.6	1716.0	1714.5	1714.5
5°	1709.8	1712.9	1714.5	1714.5	1714.5	1714.5	1712.9	1711.4	1709.8	1708.3
7.5°	1700.5	1705.2	1708.3	1709.8	1709.8	1709.8	1708.3	1708.3	1705.2	1703.6
10°	1691.2	1695.9	1700.5	1703.6	1705.2	1705.2	1705.2	1705.2	1703.6	1702.1
12.5°	1685.0	1692.8	1699.0	1702.1	1702.1	1703.6	1706.7	1706.7	1705.2	1703.6
15°	1677.3	1689.7	1697.4	1702.1	1702.1	1705.2	1711.4	1711.4	1709.8	1711.4
17.5°	1671.1	1683.5	1695.9	1703.6	1706.7	1711.4	1716.0	1717.6	1719.1	1717.6
20°	1658.7	1678.8	1695.9	1705.2	1711.4	1712.9	1723.8	1731.5	1731.5	1728.4
22.5°	1654.1	1677.3	1697.4	1717.6	1720.7	1726.9	1740.8	1748.5	1753.2	1753.2
25°	1644.8	1675.7	1705.2	1730.0	1740.8	1748.5	1762.5	1774.9	1771.8	1776.4
27.5°	1640.1	1677.3	1706.7	1737.7	1753.2	1760.9	1781.1	1788.8	1793.5	1796.5
30°	1637.0	1678.8	1711.4	1745.4	1757.8	1773.3	1791.9	1804.3	1810.5	1808.9
32.5°	1632.4	1674.2	1716.0	1745.4	1764.0	1776.4	1795.0	1808.9	1818.2	1819.8
35°	1621.5	1669.6	1708.3	1743.9	1757.8	1773.3	1795.0	1802.7	1818.2	1821.3
37.5°	1607.6	1654.1	1691.2	1730.0	1743.9	1756.3	1782.6	1790.4	1796.5	1801.2
40°	1585.9	1629.3	1669.6	1706.7	1719.1	1733.1	1751.6	1764.0	1773.3	1771.8
42.5°	1558.0	1598.3	1637.0	1677.3	1686.6	1702.1	1725.3	1739.2	1748.5	1751.6
45°	1513.1	1559.6	1604.5	1640.1	1658.7	1675.7	1702.1	1717.6	1728.4	1739.2
47.5°	1469.8	1527.1	1578.2	1618.4	1640.1	1657.2	1689.7	1712.9	1730.0	1736.1
50°	1435.7	1494.5	1553.4	1613.8	1637.0	1658.7	1695.9	1720.7	1739.2	1748.5
52.5°	1407.8	1479.1	1553.4	1627.7	1660.3	1686.6	1730.0	1760.9	1785.7	1793.5
55°	1397.0	1486.8	1581.3	1666.5	1703.6	1737.7	1787.3	1816.7	1841.5	1846.1
57.5°	1415.6	1536.4	1640.1	1728.4	1765.6	1793.5	1841.5	1866.2	1886.4	1889.5
60°	1466.7	1593.7	1702.1	1778.0	1816.7	1841.5	1877.1	1895.7	1909.6	1909.6
62.5°	1530.2	1644.8	1739.2	1802.7	1830.6	1849.2	1870.9	1892.6	1897.2	1903.4
65°	1578.2	1677.3	1742.3	1788.8	1813.6	1821.3	1844.6	1853.9	1866.2	1866.2
67.5°	1581.3	1660.3	1706.7	1743.9	1757.8	1768.7	1796.5	1807.4	1816.7	1818.2
70°	1539.5	1593.7	1646.3	1678.8	1694.3	1716.0	1742.3	1759.4	1768.7	1770.2
72.5°	1472.9	1522.4	1575.1	1624.6	1646.3	1664.9	1699.0	1722.2	1731.5	1737.7
75°	1392.3	1446.5	1510.0	1568.9	1590.6	1609.2	1657.2	1678.8	1697.4	1699.0
77.5°	1305.6	1370.6	1445.0	1508.5	1536.4	1568.9	1607.6	1640.1	1654.1	1666.5
80°	1218.9	1302.5	1378.4	1452.7	1479.1	1516.2	1562.7	1599.9	1615.3	1629.3
82.5°	1136.8	1231.3	1324.2	1400.1	1429.5	1462.0	1510.0	1551.8	1565.8	1575.1
85°	1065.5	1163.1	1254.5	1331.9	1369.1	1397.0	1451.2	1486.8	1506.9	1514.7
87.5°	989.7	1088.8	1178.6	1262.2	1293.2	1321.1	1376.8	1415.6	1434.1	1438.8
90°	915.3	1017.5	1101.2	1174.0	1211.1	1245.2	1296.3	1331.9	1350.5	1350.5
92.5°	820.8	918.4	1006.7	1073.3	1108.9	1136.8	1192.5	1218.9	1249.8	1249.8
95°	712.4	797.6	879.7	947.8	977.3	1006.7	1053.1	1088.8	1105.8	1113.6
97.5°	590.1	655.1	729.5	785.2	825.5	834.8	885.9	921.5	940.1	933.9
100°	444.5	495.6	554.5	600.9	631.9	648.9	684.5	704.7	732.6	735.7
102.5°	331.4	368.6	402.7	429.0	453.8	461.5	486.3	506.4	518.8	532.8
105°	243.2	264.8	285.0	303.6	308.2	322.1	342.3	356.2	348.5	350.0
107.5°	181.2	192.0	202.9	209.1	216.8	226.1	230.8	230.8	238.5	241.6
110°	137.8	144.0	148.7	150.2	153.3	153.3	153.3	153.3	154.9	158.0





TEST NUMBER: P237835

CATALOG NUMBER: 8VT2-LD5-9-DR100-W-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	110.0	113.1	113.1	113.1	111.5	111.5	110.0	108.4	105.3	108.4
115°	94.5	94.5	91.4	89.8	88.3	86.7	83.6	80.5	79.0	82.1
117.5°	83.6	82.1	80.5	75.9	74.3	72.8	69.7	68.1	65.0	63.5
120°	74.3	74.3	71.2	69.7	68.1	65.0	61.9	60.4	57.3	55.8
122.5°	66.6	66.6	65.0	63.5	61.9	60.4	57.3	55.8	52.7	52.7
125°	57.3	58.9	58.9	57.3	55.8	55.8	52.7	51.1	49.6	49.6
127.5°	49.6	51.1	52.7	52.7	51.1	51.1	49.6	48.0	46.5	44.9
130°	41.8	44.9	44.9	46.5	46.5	44.9	44.9	43.4	41.8	41.8
132.5°	34.1	37.2	38.7	38.7	40.3	40.3	40.3	38.7	38.7	37.2
135°	26.3	29.4	31.0	32.5	32.5	34.1	34.1	32.5	32.5	32.5
137.5°	20.1	21.7	24.8	26.3	26.3	26.3	26.3	26.3	26.3	26.3
140°	12.4	15.5	18.6	18.6	20.1	20.1	20.1	20.1	20.1	20.1
142.5°	6.2	9.3	10.8	12.4	12.4	13.9	13.9	13.9	13.9	13.9
145°	1.5	3.1	4.6	6.2	7.7	7.7	7.7	7.7	7.7	7.7
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)