

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: io LED

Report Number: P397314

Luminaire Tested: **8VRVT2-LD5-12-DR100-W-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397314
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: io LED
Catalog Number: 8VRVT2-LD5-12-DR100-W-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9512.1 lumens
Efficiency: N/A
Efficacy: 39.5 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

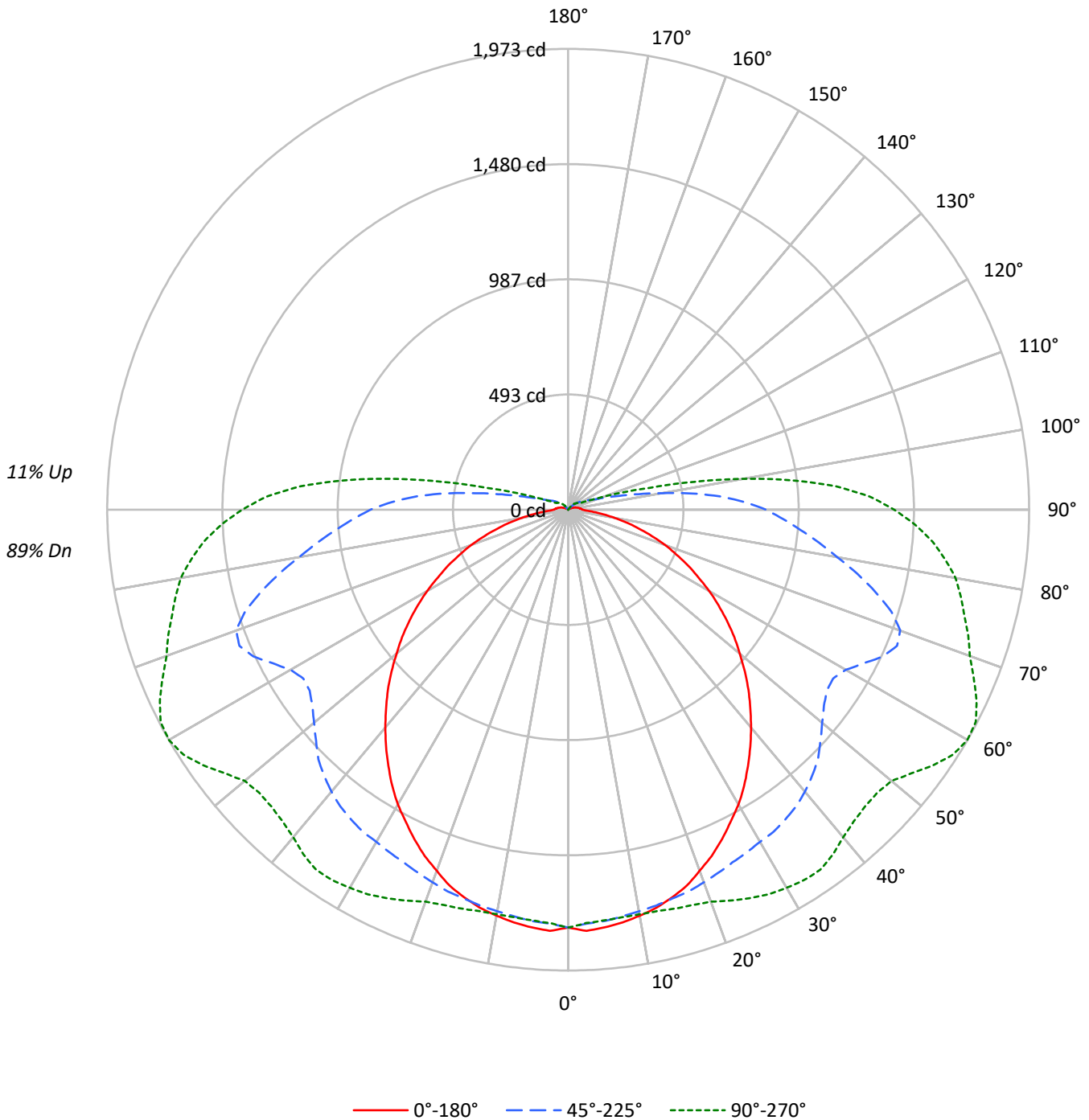
Input Watts (W): 240.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4621	4621	4621
5°	4647	4487	4447
10°	4613	4386	4357
15°	4572	4320	4341
20°	4489	4278	4378
25°	4397	4252	4528
30°	4299	4280	4675
35°	4170	4346	4811
40°	4039	4394	4824
45°	3908	4420	4924
50°	3762	4395	5196
55°	3629	4483	5820
60°	3484	4945	6462
65°	3320	5917	6873
70°	3162	6772	7210
75°	2898	7033	7807
80°	2672	7189	8664
85°	2625	7675	9643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.8
10°-20°	491.2	5.2
20°-30°	779.1	8.2
30°-40°	1009.9	10.6
40°-50°	1139.3	12.0
50°-60°	1234.2	13.0
60°-70°	1327.6	14.0
70°-80°	1264.0	13.3
80°-90°	1036.1	10.9
90°-100°	686.0	7.2
100°-110°	246.8	2.6
110°-120°	74.9	0.8
120°-130°	36.4	0.4
130°-140°	15.2	0.2
140°-150°	2.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1439.3	15.1
0°-40°	2449.3	25.7
0°-60°	4822.7	50.7
0°-90°	8450.4	88.8
90°-120°	1007.6	10.6
90°-150°	1061.7	11.2
90°-180°	1062.0	11.2
0°-180°	9512.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1795	1787	1768	1771	1765	170
15°	1718	1715	1723	1758	1768	484
25°	1557	1579	1666	1798	1835	717
35°	1341	1414	1619	1816	1882	839
45°	1091	1221	1512	1714	1797	841
55°	829	1008	1350	1760	1907	741
65°	566	790	1486	1874	1928	561
75°	312	750	1362	1643	1755	334
85°	109	544	998	1414	1565	108
90°	61	413	846	1251	1395	35
95°	53	294	651	1010	1150	42
105°	35	109	229	318	362	38
115°	18	48	96	91	85	18
125°	6	16	56	58	51	7
135°	3	0	22	34	34	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



TEST NUMBER: P397314

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-W-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1804.9	1801.7	1796.9	1795.3	1795.3	1795.3	1795.3	1792.1	1787.3	1780.9	1774.5
5°	1795.3	1792.1	1787.3	1787.3	1785.7	1787.3	1787.3	1784.1	1780.9	1774.5	1768.1
7.5°	1782.5	1780.9	1774.5	1771.3	1771.3	1771.3	1774.5	1771.3	1769.7	1763.3	1756.9
10°	1764.9	1761.7	1758.5	1758.5	1760.1	1760.1	1760.1	1761.7	1758.5	1750.5	1745.7
12.5°	1745.7	1740.9	1737.7	1737.7	1739.3	1739.3	1740.9	1740.9	1740.9	1736.1	1736.1
15°	1718.5	1716.9	1710.5	1712.1	1712.1	1715.3	1716.9	1718.5	1716.9	1721.7	1723.3
17.5°	1688.1	1686.5	1680.1	1680.1	1683.3	1684.9	1689.7	1696.1	1699.3	1705.7	1713.7
20°	1644.9	1644.9	1641.7	1644.9	1651.3	1654.5	1657.7	1668.9	1675.3	1688.1	1697.7
22.5°	1604.9	1601.7	1601.7	1604.9	1611.3	1619.3	1625.7	1641.7	1652.9	1668.9	1681.7
25°	1556.9	1555.3	1553.7	1561.7	1571.3	1579.3	1590.5	1609.7	1625.7	1644.9	1665.7
27.5°	1505.7	1504.1	1507.3	1513.7	1531.3	1542.5	1552.1	1577.7	1596.9	1627.3	1654.5
30°	1457.7	1452.9	1456.1	1465.7	1488.1	1504.1	1513.7	1542.5	1569.7	1604.9	1641.7
32.5°	1401.7	1396.9	1403.3	1417.7	1443.3	1459.3	1476.9	1507.3	1539.3	1582.5	1635.3
35°	1340.9	1342.5	1345.7	1368.1	1395.3	1414.5	1432.1	1472.1	1512.1	1564.9	1619.3
37.5°	1280.1	1276.9	1289.7	1315.3	1347.3	1371.3	1388.9	1430.5	1486.5	1544.1	1601.7
40°	1217.7	1220.9	1230.5	1259.3	1292.9	1323.3	1342.5	1396.9	1457.7	1516.9	1576.1
42.5°	1153.6	1161.6	1171.3	1204.9	1246.5	1270.5	1299.3	1358.5	1422.5	1484.9	1545.7
45°	1091.2	1097.6	1112.0	1148.8	1188.9	1220.9	1252.9	1315.3	1385.7	1451.3	1512.1
47.5°	1025.6	1032.0	1051.2	1089.6	1134.4	1169.7	1203.3	1270.5	1342.5	1409.7	1464.1
50°	958.4	968.0	987.2	1025.6	1084.8	1116.8	1150.4	1224.1	1291.3	1356.9	1419.3
52.5°	896.0	900.8	931.2	968.0	1028.8	1065.6	1097.6	1172.9	1236.9	1310.5	1379.3
55°	828.8	838.4	865.6	902.4	969.6	1008.0	1044.8	1116.8	1188.9	1265.7	1350.5
57.5°	763.2	771.2	800.0	841.6	913.6	950.4	985.6	1064.0	1137.6	1233.7	1344.1
60°	697.6	707.2	736.0	784.0	856.0	894.4	931.2	1014.4	1110.4	1228.9	1371.3
62.5°	628.8	644.8	665.6	724.8	798.4	836.8	881.6	977.6	1104.0	1254.5	1424.1
65°	566.4	574.4	606.4	667.2	745.6	790.4	841.6	964.8	1124.8	1308.9	1486.5
67.5°	500.8	512.0	547.2	614.4	702.4	755.2	819.2	977.6	1172.9	1368.1	1523.3
70°	441.6	449.6	492.8	566.4	672.0	740.8	819.2	1009.6	1219.3	1390.5	1512.1
72.5°	376.0	388.8	441.6	531.2	659.2	742.4	835.2	1043.2	1228.9	1360.1	1449.7
75°	312.0	331.2	400.0	502.4	656.0	750.4	849.6	1038.4	1184.1	1283.3	1361.7
77.5°	259.2	283.2	360.0	483.2	649.6	742.4	833.6	982.4	1099.2	1193.7	1267.3
80°	200.0	236.8	326.4	459.2	620.8	700.8	774.4	902.4	996.8	1088.0	1168.0
82.5°	152.0	193.6	291.2	422.4	561.6	628.8	686.4	800.0	899.2	985.6	1083.2
85°	108.8	153.6	251.2	368.0	484.8	544.0	596.8	704.0	801.6	899.2	998.4
87.5°	75.2	120.0	212.8	315.2	419.2	467.2	518.4	620.8	716.8	811.2	920.0
90°	60.8	97.6	177.6	270.4	360.0	412.8	457.6	550.4	646.4	745.6	846.4
92.5°	57.6	81.6	148.8	228.8	312.0	355.2	396.8	481.6	571.2	664.0	753.6
95°	52.8	65.6	116.8	185.6	256.0	294.4	328.0	408.0	483.2	564.8	651.2
97.5°	49.6	52.8	89.6	144.0	203.2	235.2	262.4	324.8	392.0	454.4	532.8
100°	44.8	46.4	68.8	112.0	155.2	182.4	204.8	256.0	304.0	353.6	406.4
102.5°	40.0	40.0	52.8	83.2	121.6	139.2	158.4	200.0	235.2	267.2	307.2
105°	35.2	35.2	41.6	64.0	91.2	108.8	121.6	152.0	179.2	203.2	228.8
107.5°	32.0	30.4	33.6	49.6	72.0	84.8	97.6	120.0	140.8	156.8	174.4
110°	25.6	25.6	27.2	40.0	59.2	68.8	80.0	97.6	115.2	126.4	136.0



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CATALOG NUMBER: 8VRVT2-LD5-12-DR100-W-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	22.4	20.8	20.8	32.0	48.0	57.6	65.6	83.2	97.6	107.2	112.0
115°	17.6	17.6	16.0	24.0	38.4	48.0	54.4	70.4	83.2	91.2	96.0
117.5°	14.4	14.4	14.4	17.6	32.0	38.4	46.4	60.8	72.0	80.0	84.8
120°	11.2	11.2	11.2	11.2	24.0	30.4	38.4	51.2	62.4	70.4	75.2
122.5°	9.6	8.0	8.0	8.0	16.0	24.0	28.8	41.6	52.8	60.8	67.2
125°	6.4	6.4	6.4	4.8	11.2	16.0	22.4	33.6	43.2	51.2	56.0
127.5°	4.8	4.8	4.8	4.8	4.8	9.6	14.4	25.6	35.2	43.2	48.0
130°	4.8	4.8	3.2	3.2	1.6	4.8	8.0	17.6	25.6	33.6	40.0
132.5°	3.2	3.2	3.2	1.6	1.6	1.6	3.2	11.2	19.2	25.6	30.4
135°	3.2	3.2	1.6	1.6	0.0	0.0	0.0	6.4	12.8	17.6	22.4
137.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	1.6	6.4	11.2	16.0
140°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	1.6	4.8	9.6
142.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2
145°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.6	1.6	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°	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1774.5	1777.7	1777.7	1777.7	1777.7	1777.7	1774.5	1772.9	1771.3	1771.3
5°	1766.5	1769.7	1771.3	1771.3	1771.3	1771.3	1769.7	1768.1	1766.5	1764.9
7.5°	1756.9	1761.7	1764.9	1766.5	1766.5	1766.5	1764.9	1764.9	1761.7	1760.1
10°	1747.3	1752.1	1756.9	1760.1	1761.7	1761.7	1761.7	1761.7	1760.1	1758.5
12.5°	1740.9	1748.9	1755.3	1758.5	1758.5	1760.1	1763.3	1763.3	1761.7	1760.1
15°	1732.9	1745.7	1753.7	1758.5	1758.5	1761.7	1768.1	1768.1	1766.5	1768.1
17.5°	1726.5	1739.3	1752.1	1760.1	1763.3	1768.1	1772.9	1774.5	1776.1	1774.5
20°	1713.7	1734.5	1752.1	1761.7	1768.1	1769.7	1780.9	1788.9	1788.9	1785.7
22.5°	1708.9	1732.9	1753.7	1774.5	1777.7	1784.1	1798.5	1806.5	1811.3	1811.3
25°	1699.3	1731.3	1761.7	1787.3	1798.5	1806.5	1820.9	1833.7	1830.5	1835.3
27.5°	1694.5	1732.9	1763.3	1795.3	1811.3	1819.3	1840.1	1848.1	1852.9	1856.1
30°	1691.3	1734.5	1768.1	1803.3	1816.1	1832.1	1851.3	1864.1	1870.5	1868.9
32.5°	1686.5	1729.7	1772.9	1803.3	1822.5	1835.3	1854.5	1868.9	1878.5	1880.1
35°	1675.3	1724.9	1764.9	1801.7	1816.1	1832.1	1854.5	1862.5	1878.5	1881.7
37.5°	1660.9	1708.9	1747.3	1787.3	1801.7	1814.5	1841.7	1849.7	1856.1	1860.9
40°	1638.5	1683.3	1724.9	1763.3	1776.1	1790.5	1809.7	1822.5	1832.1	1830.5
42.5°	1609.7	1651.3	1691.3	1732.9	1742.5	1758.5	1782.5	1796.9	1806.5	1809.7
45°	1563.3	1611.3	1657.7	1694.5	1713.7	1731.3	1758.5	1774.5	1785.7	1796.9
47.5°	1518.5	1577.7	1630.5	1672.1	1694.5	1712.1	1745.7	1769.7	1787.3	1793.7
50°	1483.3	1544.1	1604.9	1667.3	1691.3	1713.7	1752.1	1777.7	1796.9	1806.5
52.5°	1454.5	1528.1	1604.9	1681.7	1715.3	1742.5	1787.3	1819.3	1844.9	1852.9
55°	1443.3	1536.1	1633.7	1721.7	1760.1	1795.3	1846.5	1876.9	1902.5	1907.3
57.5°	1462.5	1587.3	1694.5	1785.7	1824.1	1852.9	1902.5	1928.1	1948.9	1952.1
60°	1515.3	1646.5	1758.5	1836.9	1876.9	1902.5	1939.3	1958.5	1972.9	1972.9
62.5°	1580.9	1699.3	1796.9	1862.5	1891.3	1910.5	1932.9	1955.3	1960.1	1966.5
65°	1630.5	1732.9	1800.1	1848.1	1873.7	1881.7	1905.7	1915.3	1928.1	1928.1
67.5°	1633.7	1715.3	1763.3	1801.7	1816.1	1827.3	1856.1	1867.3	1876.9	1878.5
70°	1590.5	1646.5	1700.9	1734.5	1750.5	1772.9	1800.1	1817.7	1827.3	1828.9
72.5°	1521.7	1572.9	1627.3	1678.5	1700.9	1720.1	1755.3	1779.3	1788.9	1795.3
75°	1438.5	1494.5	1560.1	1620.9	1643.3	1662.5	1712.1	1734.5	1753.7	1755.3
77.5°	1348.9	1416.1	1492.9	1558.5	1587.3	1620.9	1660.9	1694.5	1708.9	1721.7
80°	1259.3	1345.7	1424.1	1500.9	1528.1	1566.5	1614.5	1652.9	1668.9	1683.3
82.5°	1174.5	1272.1	1368.1	1446.5	1476.9	1510.5	1560.1	1603.3	1617.7	1627.3
85°	1100.8	1201.7	1296.1	1376.1	1414.5	1443.3	1499.3	1536.1	1556.9	1564.9
87.5°	1022.4	1124.8	1217.7	1304.1	1336.1	1364.9	1422.5	1462.5	1481.7	1486.5
90°	945.6	1051.2	1137.6	1212.9	1251.3	1286.5	1339.3	1376.1	1395.3	1395.3
92.5°	848.0	948.8	1040.0	1108.8	1145.6	1174.5	1232.1	1259.3	1291.3	1291.3
95°	736.0	824.0	908.8	979.2	1009.6	1040.0	1088.0	1124.8	1142.4	1150.4
97.5°	609.6	676.8	753.6	811.2	852.8	862.4	915.2	952.0	971.2	964.8
100°	459.2	512.0	572.8	620.8	652.8	670.4	707.2	728.0	756.8	760.0
102.5°	342.4	380.8	416.0	443.2	468.8	476.8	502.4	523.2	536.0	550.4
105°	251.2	273.6	294.4	313.6	318.4	332.8	353.6	368.0	360.0	361.6
107.5°	187.2	198.4	209.6	216.0	224.0	233.6	238.4	238.4	246.4	249.6
110°	142.4	148.8	153.6	155.2	158.4	158.4	158.4	158.4	160.0	163.2



TEST NUMBER: P397314

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-W-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	113.6	116.8	116.8	116.8	115.2	115.2	113.6	112.0	108.8	112.0
115°	97.6	97.6	94.4	92.8	91.2	89.6	86.4	83.2	81.6	84.8
117.5°	86.4	84.8	83.2	78.4	76.8	75.2	72.0	70.4	67.2	65.6
120°	76.8	76.8	73.6	72.0	70.4	67.2	64.0	62.4	59.2	57.6
122.5°	68.8	68.8	67.2	65.6	64.0	62.4	59.2	57.6	54.4	54.4
125°	59.2	60.8	60.8	59.2	57.6	57.6	54.4	52.8	51.2	51.2
127.5°	51.2	52.8	54.4	54.4	52.8	52.8	51.2	49.6	48.0	46.4
130°	43.2	46.4	46.4	48.0	48.0	46.4	46.4	44.8	43.2	43.2
132.5°	35.2	38.4	40.0	40.0	41.6	41.6	41.6	40.0	40.0	38.4
135°	27.2	30.4	32.0	33.6	33.6	35.2	35.2	33.6	33.6	33.6
137.5°	20.8	22.4	25.6	27.2	27.2	27.2	27.2	27.2	27.2	27.2
140°	12.8	16.0	19.2	19.2	20.8	20.8	20.8	20.8	20.8	20.8
142.5°	6.4	9.6	11.2	12.8	12.8	14.4	14.4	14.4	14.4	14.4
145°	1.6	3.2	4.8	6.4	8.0	8.0	8.0	8.0	8.0	8.0
147.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
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)