

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: P237876

Luminaire Tested: **4VRVT2-LD5-8-DR-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-8-DR-W-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
4FT FIXTURE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7617.9 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.59 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

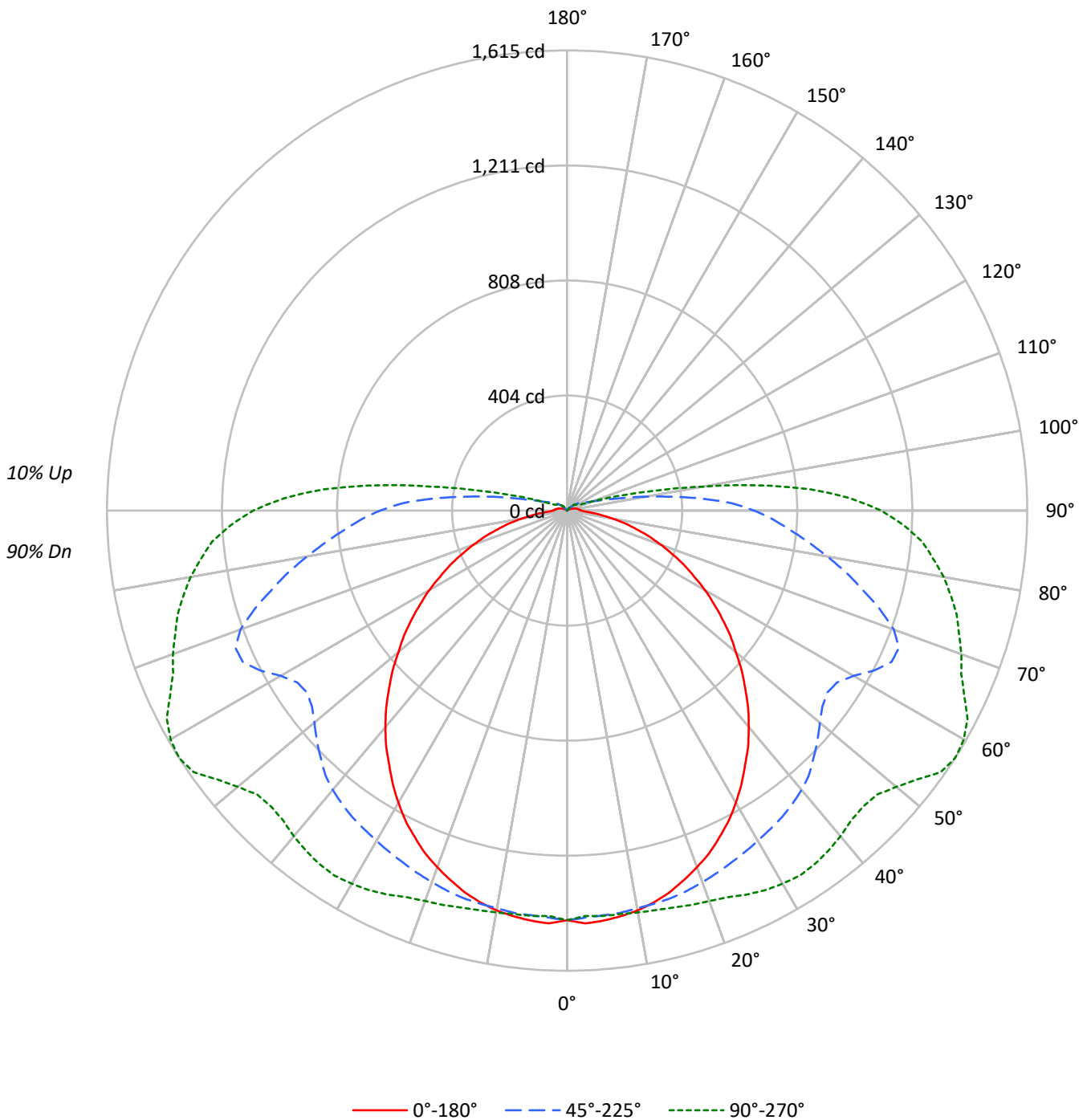
Input Watts (W): 58.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7425	7425	7425
5°	7469	7229	7197
10°	7424	7104	7096
15°	7341	7034	7081
20°	7219	6963	7150
25°	7079	6919	7337
30°	6904	6927	7565
35°	6682	6995	7748
40°	6473	7068	7864
45°	6211	7076	8051
50°	5931	7080	8676
55°	5675	7287	9765
60°	5402	8226	10528
65°	5101	9805	10965
70°	4750	10682	11608
75°	4360	10790	12597
80°	3905	11033	13815
85°	3458	11598	15418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.8
10°-20°	399.9	5.2
20°-30°	634.4	8.3
30°-40°	820.9	10.8
40°-50°	929.2	12.2
50°-60°	1020.3	13.4
60°-70°	1082.7	14.2
70°-80°	1015.0	13.3
80°-90°	820.9	10.8
90°-100°	508.6	6.7
100°-110°	159.5	2.1
110°-120°	50.7	0.7
120°-130°	26.3	0.3
130°-140°	11.0	0.1
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1170.9	15.4
0°-40°	1991.8	26.1
0°-60°	3941.4	51.7
0°-90°	6860.0	90.0
90°-120°	718.9	9.4
90°-150°	758.0	10.0
90°-180°	758.0	10.0
0°-180°	7617.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1445	1440	1426	1432	1428	137
15°	1387	1393	1408	1439	1442	391
25°	1265	1294	1363	1454	1487	583
35°	1089	1159	1314	1470	1515	682
45°	884	994	1224	1400	1469	683
55°	666	812	1114	1485	1600	596
65°	453	646	1256	1498	1538	448
75°	251	629	1073	1314	1416	268
85°	85	425	786	1130	1251	86
90°	48	317	656	980	1102	28
95°	42	220	478	748	856	33
105°	28	78	150	198	215	30
115°	14	36	68	59	50	14
125°	5	12	42	42	36	5
135°	2	0	17	25	24	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



TEST NUMBER: P237876

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1
2.5°	1450.1	1448.1	1445.1	1444.1	1443.1	1443.1	1444.1	1442.1	1439.1	1434.1	1430.1
5°	1445.1	1443.1	1440.1	1438.1	1440.1	1440.1	1441.1	1439.1	1435.1	1431.1	1426.1
7.5°	1436.1	1434.1	1431.1	1431.1	1430.1	1431.1	1431.1	1431.1	1429.1	1427.1	1424.1
10°	1425.1	1422.1	1421.1	1420.1	1421.1	1423.1	1423.1	1424.1	1422.1	1419.1	1417.1
12.5°	1408.1	1407.1	1404.1	1405.1	1406.1	1409.1	1411.1	1413.1	1414.1	1413.1	1413.1
15°	1387.1	1385.1	1384.1	1386.1	1392.1	1393.1	1395.1	1400.1	1402.1	1406.1	1408.1
17.5°	1360.1	1360.1	1360.1	1364.1	1371.1	1373.1	1377.1	1382.1	1387.1	1392.1	1399.1
20°	1332.1	1332.1	1332.1	1337.1	1345.1	1351.1	1355.1	1362.1	1370.1	1381.1	1388.1
22.5°	1302.0	1300.0	1300.0	1305.0	1317.1	1320.1	1328.1	1342.1	1354.1	1367.1	1376.1
25°	1265.0	1263.0	1266.0	1273.0	1287.0	1294.0	1303.0	1319.1	1331.1	1349.1	1363.1
27.5°	1228.0	1225.0	1229.0	1238.0	1257.0	1265.0	1276.0	1295.0	1309.0	1329.1	1351.1
30°	1184.0	1184.0	1189.0	1201.0	1220.0	1231.0	1243.0	1266.0	1285.0	1310.0	1338.1
32.5°	1139.0	1137.0	1146.0	1159.0	1184.0	1197.0	1210.0	1236.0	1260.0	1292.0	1326.1
35°	1089.0	1090.0	1099.0	1116.0	1146.0	1159.0	1173.0	1203.0	1235.0	1274.0	1314.0
37.5°	1043.0	1041.0	1053.0	1076.0	1105.0	1120.0	1135.0	1172.0	1208.0	1252.0	1298.0
40°	992.0	993.0	1004.0	1030.0	1060.0	1077.0	1094.0	1137.0	1180.0	1227.0	1280.0
42.5°	940.0	941.0	956.0	984.0	1017.0	1036.0	1057.0	1102.0	1151.0	1203.0	1257.0
45°	884.0	886.0	904.0	937.0	970.0	994.0	1017.0	1066.0	1121.0	1173.0	1224.0
47.5°	831.0	834.0	857.0	887.0	925.0	950.0	975.0	1031.0	1085.0	1138.0	1192.0
50°	773.0	782.0	802.0	836.0	879.0	903.0	931.0	989.0	1046.0	1103.0	1158.0
52.5°	722.0	726.0	751.0	784.0	830.0	858.0	884.0	946.0	1006.0	1065.0	1129.0
55°	666.0	672.0	699.0	733.0	781.0	812.0	841.0	903.0	969.0	1035.0	1114.0
57.5°	611.0	618.0	647.0	682.0	735.0	763.0	797.0	862.0	934.0	1019.0	1123.0
60°	559.0	564.0	591.0	631.0	686.0	718.0	753.0	828.0	916.0	1030.0	1160.0
62.5°	503.0	512.0	537.0	582.0	645.0	678.0	718.0	806.0	923.0	1066.0	1215.0
65°	453.0	460.0	488.0	538.0	605.0	646.0	692.0	807.0	956.0	1114.0	1256.0
67.5°	400.0	412.0	441.0	496.0	575.0	624.0	683.0	828.0	997.0	1149.0	1260.0
70°	349.0	361.0	398.0	463.0	557.0	619.0	690.0	860.0	1023.0	1144.0	1220.0
72.5°	301.0	313.0	360.0	436.0	551.0	624.0	705.0	875.0	1008.0	1089.0	1150.0
75°	251.0	268.0	326.0	418.0	550.0	629.0	711.0	850.0	947.0	1015.0	1073.0
77.5°	208.0	229.0	296.0	401.0	542.0	614.0	677.0	785.0	868.0	935.0	1002.0
80°	161.0	190.0	269.0	379.0	505.0	562.0	614.0	702.0	784.0	855.0	926.0
82.5°	120.0	156.0	237.0	343.0	446.0	494.0	542.0	624.0	701.0	775.0	855.0
85°	85.0	122.0	203.0	294.0	383.0	425.0	468.0	548.0	624.0	703.0	786.0
87.5°	60.0	95.0	167.0	248.0	328.0	363.0	403.0	479.0	559.0	637.0	724.0
90°	48.0	76.0	139.0	209.0	280.0	317.0	353.0	426.0	499.0	575.0	656.0
92.5°	46.0	63.0	115.0	176.0	238.0	270.0	302.0	368.0	435.0	503.0	580.0
95°	42.0	51.0	89.0	141.0	193.0	220.0	248.0	301.0	359.0	416.0	478.0
97.5°	39.0	42.0	69.0	110.0	152.0	171.0	192.0	237.0	278.0	322.0	370.0
100°	35.0	36.0	52.0	82.0	116.0	133.0	151.0	181.0	212.0	247.0	280.0
102.5°	32.0	32.0	41.0	62.0	87.0	100.0	113.0	139.0	161.0	184.0	203.0
105°	28.0	28.0	33.0	47.0	67.0	78.0	88.0	106.0	124.0	139.0	150.0
107.5°	25.0	24.0	26.0	38.0	54.0	62.0	71.0	85.0	98.0	108.0	117.0
110°	21.0	21.0	21.0	31.0	44.0	51.0	58.0	70.0	81.0	88.0	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	17.0	17.0	17.0	25.0	36.0	43.0	49.0	60.0	69.0	75.0	78.0
115°	14.0	14.0	13.0	19.0	30.0	36.0	41.0	52.0	60.0	65.0	68.0
117.5°	11.0	11.0	11.0	14.0	24.0	29.0	35.0	44.0	53.0	58.0	61.0
120°	9.0	9.0	8.0	9.0	18.0	23.0	28.0	38.0	46.0	51.0	54.0
122.5°	7.0	7.0	6.0	6.0	13.0	17.0	22.0	31.0	39.0	44.0	48.0
125°	5.0	5.0	5.0	4.0	8.0	12.0	17.0	25.0	32.0	38.0	42.0
127.5°	4.0	4.0	4.0	3.0	4.0	7.0	11.0	19.0	26.0	31.0	35.0
130°	3.0	3.0	3.0	2.0	2.0	4.0	7.0	13.0	19.0	24.0	29.0
132.5°	3.0	3.0	2.0	2.0	1.0	1.0	3.0	8.0	14.0	18.0	22.0
135°	2.0	2.0	2.0	1.0	1.0	0.0	0.0	4.0	9.0	13.0	17.0
137.5°	2.0	2.0	1.0	1.0	0.0	0.0	0.0	1.0	5.0	8.0	11.0
140°	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	4.0	7.0
142.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
145°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.0	1.0	1.0	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°	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1
2.5°	1428.1	1429.1	1431.1	1431.1	1430.1	1430.1	1429.1	1428.1	1426.1	1424.1
5°	1426.1	1428.1	1431.1	1432.1	1432.1	1431.1	1431.1	1431.1	1430.1	1428.1
7.5°	1425.1	1428.1	1431.1	1432.1	1433.1	1433.1	1432.1	1431.1	1429.1	1428.1
10°	1420.1	1426.1	1429.1	1432.1	1434.1	1434.1	1435.1	1435.1	1433.1	1432.1
12.5°	1418.1	1425.1	1430.1	1434.1	1437.1	1437.1	1439.1	1441.1	1435.1	1436.1
15°	1414.1	1424.1	1432.1	1437.1	1439.1	1440.1	1442.1	1443.1	1441.1	1442.1
17.5°	1409.1	1422.1	1430.1	1437.1	1438.1	1441.1	1447.1	1450.1	1450.1	1451.1
20°	1402.1	1417.1	1428.1	1439.1	1443.1	1446.1	1452.1	1458.1	1456.1	1458.1
22.5°	1394.1	1411.1	1427.1	1440.1	1445.1	1451.1	1461.1	1467.1	1470.1	1469.1
25°	1387.1	1409.1	1428.1	1448.1	1454.1	1462.1	1474.1	1482.1	1485.1	1487.1
27.5°	1379.1	1406.1	1432.1	1454.1	1464.1	1474.1	1489.1	1498.1	1501.1	1502.1
30°	1373.1	1407.1	1434.1	1460.1	1471.1	1482.1	1498.1	1507.1	1511.1	1512.1
32.5°	1367.1	1403.1	1434.1	1462.1	1473.1	1483.1	1502.1	1516.1	1519.1	1519.1
35°	1359.1	1395.1	1430.1	1459.1	1470.1	1481.1	1502.1	1513.1	1516.1	1515.1
37.5°	1345.1	1385.1	1421.1	1447.1	1458.1	1468.1	1489.1	1501.1	1506.1	1505.1
40°	1325.1	1366.1	1401.1	1430.1	1440.1	1451.1	1473.1	1483.1	1490.1	1492.1
42.5°	1301.0	1342.1	1377.1	1406.1	1419.1	1432.1	1454.1	1465.1	1473.1	1475.1
45°	1271.0	1313.0	1351.1	1385.1	1400.1	1413.1	1440.1	1459.1	1467.1	1469.1
47.5°	1240.0	1288.0	1331.1	1372.1	1391.1	1411.1	1441.1	1465.1	1476.1	1475.1
50°	1211.0	1269.0	1323.1	1377.1	1402.1	1425.1	1463.1	1489.1	1502.1	1508.1
52.5°	1197.0	1269.0	1341.1	1405.1	1434.1	1459.1	1504.1	1534.1	1549.1	1549.1
55°	1204.0	1297.0	1380.1	1454.1	1485.1	1512.1	1551.1	1580.1	1593.1	1600.1
57.5°	1236.0	1344.1	1433.1	1503.1	1532.1	1555.1	1591.1	1605.1	1619.1	1615.1
60°	1290.0	1393.1	1472.1	1533.1	1553.1	1565.1	1588.1	1600.1	1607.1	1607.1
62.5°	1335.1	1428.1	1483.1	1519.1	1537.1	1547.1	1566.1	1575.1	1584.1	1584.1
65°	1355.1	1416.1	1458.1	1490.1	1498.1	1510.1	1523.1	1532.1	1540.1	1538.1
67.5°	1331.1	1375.1	1408.1	1437.1	1447.1	1459.1	1475.1	1488.1	1495.1	1497.1
70°	1271.0	1313.0	1344.1	1380.1	1395.1	1410.1	1438.1	1457.1	1468.1	1472.1
72.5°	1201.0	1245.0	1293.0	1334.1	1357.1	1374.1	1405.1	1425.1	1440.1	1442.1
75°	1129.0	1184.0	1239.0	1291.0	1314.0	1338.1	1373.1	1396.1	1413.1	1416.1
77.5°	1064.0	1127.0	1195.0	1251.0	1279.0	1300.0	1338.1	1360.1	1378.1	1379.1
80°	999.0	1073.0	1142.0	1200.0	1228.0	1255.0	1291.0	1320.1	1335.1	1342.1
82.5°	936.0	1012.0	1086.0	1153.0	1178.0	1204.0	1245.0	1273.0	1290.0	1296.0
85°	874.0	957.0	1034.0	1099.0	1130.0	1156.0	1200.0	1226.0	1246.0	1251.0
87.5°	809.0	890.0	967.0	1031.0	1063.0	1086.0	1131.0	1158.0	1178.0	1182.0
90°	739.0	815.0	890.0	950.0	980.0	1005.0	1053.0	1078.0	1093.0	1102.0
92.5°	652.0	725.0	794.0	853.0	884.0	902.0	947.0	974.0	990.0	994.0
95°	544.0	606.0	668.0	721.0	748.0	775.0	805.0	831.0	853.0	856.0
97.5°	420.0	472.0	523.0	575.0	592.0	608.0	633.0	660.0	680.0	679.0
100°	313.0	343.0	379.0	406.0	419.0	437.0	461.0	477.0	479.0	485.0
102.5°	225.0	246.0	261.0	281.0	287.0	303.0	311.0	322.0	324.0	329.0
105°	163.0	174.0	185.0	193.0	198.0	199.0	205.0	213.0	215.0	215.0
107.5°	122.0	128.0	129.0	132.0	134.0	135.0	139.0	140.0	141.0	141.0
110°	96.0	97.0	95.0	95.0	94.0	94.0	93.0	92.0	91.0	91.0



TEST NUMBER: P237876

CATALOG NUMBER: 4VRVT2-LD5-8-DR-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	78.0	78.0	76.0	73.0	71.0	70.0	67.0	65.0	64.0	64.0
115°	68.0	66.0	64.0	61.0	59.0	58.0	55.0	53.0	51.0	50.0
117.5°	61.0	60.0	57.0	55.0	53.0	52.0	49.0	46.0	45.0	44.0
120°	55.0	54.0	53.0	50.0	49.0	48.0	45.0	43.0	41.0	41.0
122.5°	49.0	49.0	48.0	46.0	45.0	44.0	42.0	40.0	39.0	38.0
125°	44.0	44.0	44.0	43.0	42.0	41.0	39.0	38.0	37.0	36.0
127.5°	37.0	39.0	39.0	39.0	38.0	38.0	37.0	35.0	34.0	34.0
130°	31.0	33.0	34.0	34.0	34.0	34.0	33.0	32.0	31.0	31.0
132.5°	25.0	28.0	29.0	30.0	30.0	30.0	29.0	29.0	28.0	28.0
135°	20.0	22.0	24.0	25.0	25.0	25.0	25.0	25.0	24.0	24.0
137.5°	15.0	16.0	18.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0
140°	9.0	11.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0
142.5°	5.0	6.0	8.0	9.0	10.0	10.0	10.0	10.0	10.0	10.0
145°	1.0	2.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
147.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	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)