

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1212247

Luminaire Tested: 4VT3-LD5-6-W-UNV-L830-CD1-U

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4VT3-LD5-6-W-UNV-L830-CD1-U
Description: 4FT VT3 WIDE APPLICATION, 6000LM
Light Source: (392) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

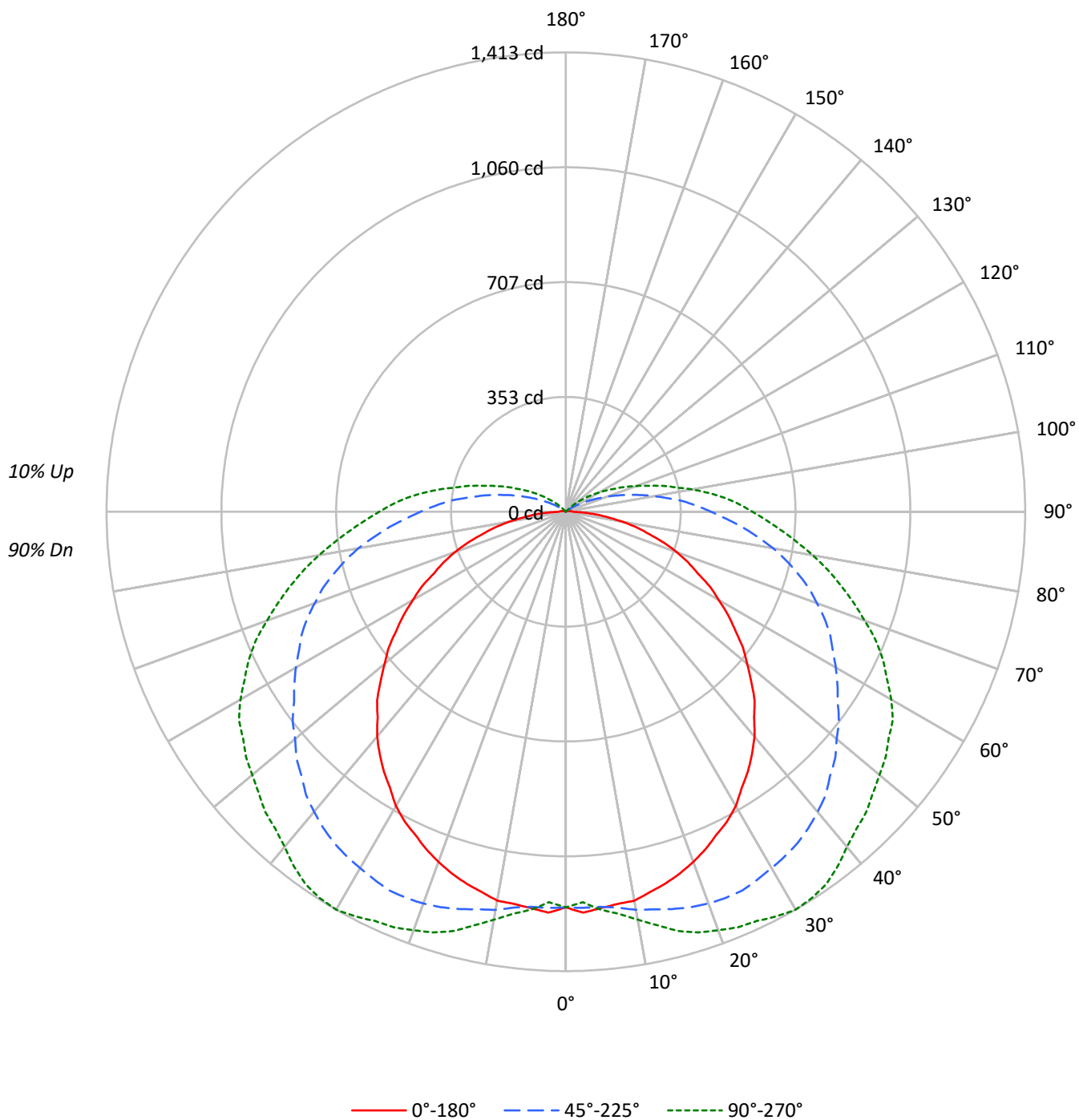
Lumens per Lamp: N/A
Luminaire Lumens: 6215.8 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 49.3
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70
2	92	82	74	67	88	79	72	65	74	67	62	69	64	59	64	60	56
3	83	71	61	54	79	68	60	53	64	56	50	59	53	48	55	50	46
4	75	62	52	44	72	60	51	44	56	48	42	52	46	40	49	43	38
5	69	55	45	38	66	53	44	37	50	42	35	46	40	34	43	38	33
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28
7	58	44	35	28	56	43	34	28	40	32	27	38	31	26	36	29	25
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	33	26	22
9	51	36	28	22	49	35	27	22	33	26	21	32	25	20	30	24	20
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	28	22	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7858	7858	7858
5°	7904	7696	7696
10°	7907	7728	7806
15°	7828	7805	8063
20°	7759	7915	8219
25°	7663	7995	8342
30°	7611	7998	8563
35°	7476	8043	8607
40°	7357	8049	8493
45°	7200	8000	8527
50°	6969	7961	8569
55°	6762	7948	8689
60°	6544	8040	8819
65°	6276	8214	8851
70°	6145	8353	8798
75°	5729	8527	8767
80°	5307	8701	8779
85°	4533	8844	8864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 9268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.9
10°-20°	358.0	5.8
20°-30°	584.4	9.4
30°-40°	761.6	12.3
40°-50°	854.9	13.8
50°-60°	874.0	14.1
60°-70°	820.8	13.2
70°-80°	693.8	11.2
80°-90°	513.8	8.3
90°-100°	336.2	5.4
100°-110°	185.4	3.0
110°-120°	83.9	1.4
120°-130°	28.0	0.5
130°-140°	3.4	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1059.8	17.1
0°-40°	1821.4	29.3
0°-60°	3550.4	57.1
0°-90°	5578.8	89.8
90°-120°	605.6	9.7
90°-150°	637.0	10.2
90°-180°	637.0	10.2
0°-180°	6215.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1224	1222	1220	1229	1229	116
15°	1184	1212	1265	1321	1335	334
25°	1096	1166	1285	1369	1389	506
35°	976	1072	1243	1373	1397	610
45°	821	944	1150	1271	1307	631
55°	636	786	1021	1170	1212	571
65°	447	618	898	1043	1076	447
75°	265	465	740	853	876	283
85°	90	313	545	647	666	91
90°	23	234	447	549	574	16
95°	18	167	365	458	491	13
105°	9	52	200	283	308	10
115°	4	5	84	153	169	4
125°	1	1	18	62	76	2
135°	1	0	0	4	12	0
145°	0	0	0	0	0	0
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°	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7
2.5°	1234.2	1219.5	1220.2	1218.1	1218.1	1226.5	1224.4	1218.8	1220.2	1217.4	1219.5
5°	1223.7	1216.7	1217.4	1221.6	1220.9	1222.3	1223.7	1220.2	1226.5	1224.4	1219.5
7.5°	1216.7	1211.1	1212.5	1206.9	1218.1	1220.9	1220.9	1218.8	1225.1	1227.2	1227.9
10°	1214.6	1204.1	1208.3	1199.9	1211.1	1223.7	1221.6	1229.3	1234.2	1239.1	1243.3
12.5°	1197.9	1193.7	1191.5	1197.9	1213.2	1223.0	1216.7	1222.3	1235.6	1244.7	1252.4
15°	1183.8	1182.4	1181.7	1188.0	1195.1	1211.8	1213.9	1228.6	1246.8	1251.7	1265.0
17.5°	1166.3	1162.1	1164.9	1169.8	1192.3	1202.7	1212.5	1223.0	1248.2	1258.0	1275.6
20°	1146.0	1143.2	1152.3	1158.6	1179.6	1192.3	1204.1	1220.9	1239.8	1263.6	1282.5
22.5°	1122.9	1121.5	1129.2	1141.8	1169.1	1181.0	1189.4	1212.5	1241.9	1261.6	1285.3
25°	1096.3	1096.3	1104.7	1125.0	1157.2	1165.6	1178.9	1199.3	1226.5	1251.7	1285.3
27.5°	1073.9	1073.9	1081.6	1101.9	1128.6	1150.9	1167.7	1182.4	1218.1	1246.1	1275.6
30°	1045.2	1048.7	1055.0	1073.9	1106.8	1126.4	1141.8	1170.5	1204.9	1235.6	1265.8
32.5°	1006.7	1008.1	1024.2	1047.3	1080.9	1100.5	1121.5	1150.2	1195.1	1213.9	1255.9
35°	975.9	975.9	990.6	1014.4	1057.8	1072.5	1092.8	1126.4	1166.3	1200.7	1243.3
37.5°	940.2	940.9	960.5	992.7	1027.0	1045.9	1065.5	1102.6	1142.5	1178.2	1225.8
40°	903.1	908.7	918.5	950.7	991.3	1014.4	1031.2	1073.2	1124.3	1159.3	1204.9
42.5°	856.9	863.2	880.7	913.5	952.8	985.0	1005.3	1042.4	1090.0	1136.9	1182.4
45°	821.2	824.7	841.4	874.4	918.5	943.7	964.0	1010.9	1060.6	1106.8	1149.5
47.5°	773.5	781.3	798.1	835.2	882.1	910.1	927.6	973.8	1027.0	1071.1	1123.6
50°	728.1	734.4	758.1	791.8	843.6	867.4	891.2	937.4	997.6	1044.5	1087.2
52.5°	686.8	691.6	712.6	752.6	798.1	829.6	848.4	902.4	961.9	1008.8	1059.2
55°	636.3	648.3	669.3	709.2	760.9	786.1	804.4	861.1	921.3	975.9	1020.7
57.5°	592.2	604.1	625.9	667.9	718.2	742.1	770.7	826.8	882.1	939.5	990.6
60°	543.2	555.8	580.4	626.5	677.0	701.4	726.0	786.9	846.4	900.3	959.1
62.5°	500.5	509.7	539.0	577.6	629.3	658.1	685.4	745.6	816.3	871.6	925.5
65°	447.4	466.3	492.9	538.4	589.4	617.5	647.5	709.2	772.1	833.8	897.5
67.5°	406.8	418.0	449.4	492.1	546.8	580.4	607.7	677.0	740.7	801.6	861.8
70°	362.7	373.1	404.0	449.4	506.9	536.2	573.4	639.1	709.8	767.3	821.9
72.5°	316.4	329.0	358.5	405.4	468.3	502.7	534.2	604.9	677.7	730.2	784.7
75°	265.3	284.2	318.5	364.1	428.4	464.9	496.3	571.2	636.3	690.2	740.0
77.5°	222.7	237.3	275.8	331.9	397.0	429.8	463.5	534.8	599.3	648.9	695.2
80°	176.4	196.7	231.0	289.8	355.7	389.9	425.0	492.1	553.8	603.5	648.3
82.5°	130.9	149.2	191.8	252.7	319.9	352.9	382.2	448.0	507.5	557.2	595.8
85°	90.3	107.1	154.7	216.3	280.0	312.9	342.3	408.8	462.7	504.1	545.4
87.5°	50.4	72.9	121.8	179.9	242.9	274.4	301.0	363.3	413.8	457.8	493.5
90°	23.1	46.2	89.6	145.6	203.7	233.8	261.8	317.8	369.7	408.2	446.6
92.5°	19.6	28.0	66.5	116.9	172.9	200.2	228.2	280.8	326.2	369.7	404.0
95°	17.5	18.9	43.4	90.3	140.0	167.3	192.5	242.9	286.4	326.9	364.7
97.5°	15.4	15.4	26.6	63.7	111.3	133.7	157.5	206.5	247.1	285.6	318.5
100°	12.6	13.3	15.4	41.3	80.5	102.2	126.0	168.7	209.3	245.7	275.2
102.5°	11.2	11.2	11.9	25.2	55.3	74.9	95.9	133.7	174.3	206.5	238.0
105°	9.1	9.8	9.8	13.3	37.1	51.8	69.3	105.7	139.4	171.5	200.2
107.5°	7.7	7.7	7.7	8.4	22.4	33.6	47.6	77.0	109.2	140.0	166.6
110°	6.3	6.3	6.3	7.0	10.5	19.6	30.8	54.6	82.6	112.0	135.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	4.9	5.6	5.6	5.6	6.3	9.1	17.5	39.2	60.2	85.4	107.1
115°	4.2	4.2	4.2	4.2	4.9	4.9	7.0	23.1	43.4	63.0	84.0
117.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	11.2	28.7	45.5	63.0
120°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	15.4	31.5	45.5
122.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	17.5	30.8
125°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	5.6	17.5
127.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4	6.3
130°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7
132.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	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°	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7
2.5°	1207.6	1213.2	1220.2	1223.0	1217.4	1222.3	1222.3	1215.3	1216.0	1202.1
5°	1213.9	1224.4	1234.2	1228.6	1229.3	1228.6	1236.3	1230.7	1228.6	1228.6
7.5°	1230.7	1239.8	1241.9	1248.2	1247.5	1254.5	1248.2	1253.8	1251.7	1246.8
10°	1248.2	1252.4	1258.0	1274.8	1276.2	1273.4	1283.9	1275.6	1276.2	1274.2
12.5°	1256.6	1280.4	1281.1	1297.9	1294.4	1304.9	1306.3	1309.1	1309.8	1302.8
15°	1277.0	1293.7	1307.0	1321.0	1321.0	1329.5	1337.1	1336.5	1337.1	1335.1
17.5°	1290.2	1316.1	1325.3	1337.1	1342.1	1351.1	1355.3	1362.3	1360.2	1356.7
20°	1300.0	1319.6	1339.9	1352.5	1350.5	1361.6	1372.8	1361.6	1369.3	1370.0
22.5°	1297.2	1328.1	1342.7	1358.8	1365.1	1369.3	1378.4	1386.8	1386.8	1383.3
25°	1299.3	1325.9	1348.3	1364.4	1369.3	1379.1	1391.0	1393.8	1398.0	1389.0
27.5°	1295.8	1326.7	1350.5	1367.9	1367.9	1389.0	1393.8	1405.8	1409.2	1403.0
30°	1297.2	1324.5	1346.9	1374.9	1381.2	1392.4	1405.0	1413.4	1412.0	1413.4
32.5°	1287.4	1318.9	1344.9	1374.9	1384.7	1391.0	1405.8	1407.2	1405.8	1408.6
35°	1270.6	1309.1	1348.3	1364.4	1372.8	1385.4	1389.0	1396.0	1407.8	1397.4
37.5°	1260.2	1297.9	1318.9	1344.1	1353.3	1363.7	1371.4	1372.8	1374.9	1374.2
40°	1240.5	1276.2	1295.1	1321.0	1324.5	1341.3	1336.5	1343.5	1349.7	1345.5
42.5°	1219.5	1248.2	1273.4	1291.6	1300.0	1304.2	1317.5	1320.3	1328.1	1323.1
45°	1186.6	1217.4	1244.7	1264.4	1271.4	1285.3	1291.6	1296.5	1304.2	1307.0
47.5°	1160.0	1190.9	1218.8	1247.5	1246.1	1262.2	1274.2	1272.0	1278.4	1281.1
50°	1124.3	1162.1	1196.5	1216.7	1223.7	1239.1	1244.0	1258.0	1264.4	1259.4
52.5°	1095.6	1136.9	1158.6	1192.3	1200.7	1213.2	1227.2	1228.6	1241.9	1239.8
55°	1066.2	1103.3	1138.3	1160.0	1169.8	1185.9	1195.7	1201.3	1206.9	1212.5
57.5°	1029.1	1076.7	1106.1	1133.4	1143.9	1154.4	1169.1	1176.1	1188.0	1192.3
60°	1000.4	1049.4	1073.9	1105.4	1115.9	1127.8	1138.3	1144.6	1153.7	1155.8
62.5°	969.6	1013.7	1043.8	1073.2	1083.0	1092.8	1104.7	1115.2	1118.7	1113.8
65°	933.9	978.7	1006.0	1035.4	1043.1	1062.0	1058.5	1069.0	1073.2	1076.0
67.5°	900.3	950.0	971.0	988.5	1006.7	1004.6	1018.6	1017.9	1026.3	1031.9
70°	860.4	899.6	919.1	945.1	950.0	956.3	967.5	970.3	975.2	978.0
72.5°	819.1	859.7	877.2	895.4	907.3	906.5	914.3	919.9	926.2	926.9
75°	778.5	805.1	826.8	844.2	853.4	854.8	864.6	863.2	877.9	875.8
77.5°	731.6	760.9	774.9	792.5	800.2	807.9	812.8	817.0	819.1	824.7
80°	676.3	711.2	721.8	740.7	746.3	754.7	756.7	765.9	769.3	771.5
82.5°	629.3	652.5	668.6	687.4	700.0	698.6	707.8	713.4	717.6	717.6
85°	576.8	603.5	618.1	634.9	646.9	648.9	658.1	658.1	663.7	666.5
87.5°	522.3	554.4	566.4	584.6	597.9	595.8	602.1	610.5	613.3	618.1
90°	473.9	499.9	519.5	537.0	548.8	550.2	557.2	564.2	565.6	574.0
92.5°	434.8	456.4	477.5	495.7	499.9	505.5	511.7	522.9	525.1	533.4
95°	389.2	415.8	432.6	450.8	457.8	462.0	469.1	477.5	484.5	490.7
97.5°	347.9	371.7	389.9	404.0	413.8	416.6	425.6	431.2	436.2	443.2
100°	303.8	324.8	344.5	360.5	368.3	370.3	380.1	384.3	388.5	394.8
102.5°	263.2	288.4	299.6	317.1	323.4	326.9	333.9	343.1	343.7	345.9
105°	221.9	246.4	262.5	275.2	282.8	285.6	292.6	302.4	303.1	308.0
107.5°	189.7	210.7	226.8	240.1	247.8	250.6	256.2	259.7	264.6	266.0
110°	158.2	177.1	193.2	204.5	210.7	216.3	222.7	228.2	231.0	231.7

TEST NUMBER: P1212247

CATALOG NUMBER: 4VT3-LD5-6-W-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	128.1	146.4	160.3	174.3	179.9	184.1	190.4	197.4	200.9	200.9
115°	102.9	119.7	134.4	145.6	153.3	155.4	161.0	166.6	169.4	169.4
117.5°	79.1	96.6	109.9	119.7	125.3	128.1	135.1	140.8	142.8	144.2
120°	60.2	74.3	86.8	97.3	100.8	105.7	110.6	115.5	118.3	118.3
122.5°	44.1	56.7	65.8	74.9	81.2	82.6	88.9	94.5	95.9	97.3
125°	30.1	40.6	49.7	57.4	62.3	63.7	68.6	73.5	74.9	76.3
127.5°	15.4	25.9	34.3	42.0	45.5	48.3	52.5	56.7	58.1	58.8
130°	4.2	11.9	20.3	27.3	30.1	32.2	37.1	39.9	42.7	42.0
132.5°	0.0	2.1	7.0	13.3	15.4	18.2	22.4	25.2	26.6	28.0
135°	0.0	0.0	0.7	2.8	4.2	5.6	8.4	11.9	11.9	11.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	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
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)