

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: P397359

Luminaire Tested: **8VRVT2-LD5-9-DR100-W-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397359  
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-LD5-9-DR100-W-UNV-LG52-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6948.8 lumens  
Efficiency: N/A  
Efficacy: 44.4 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

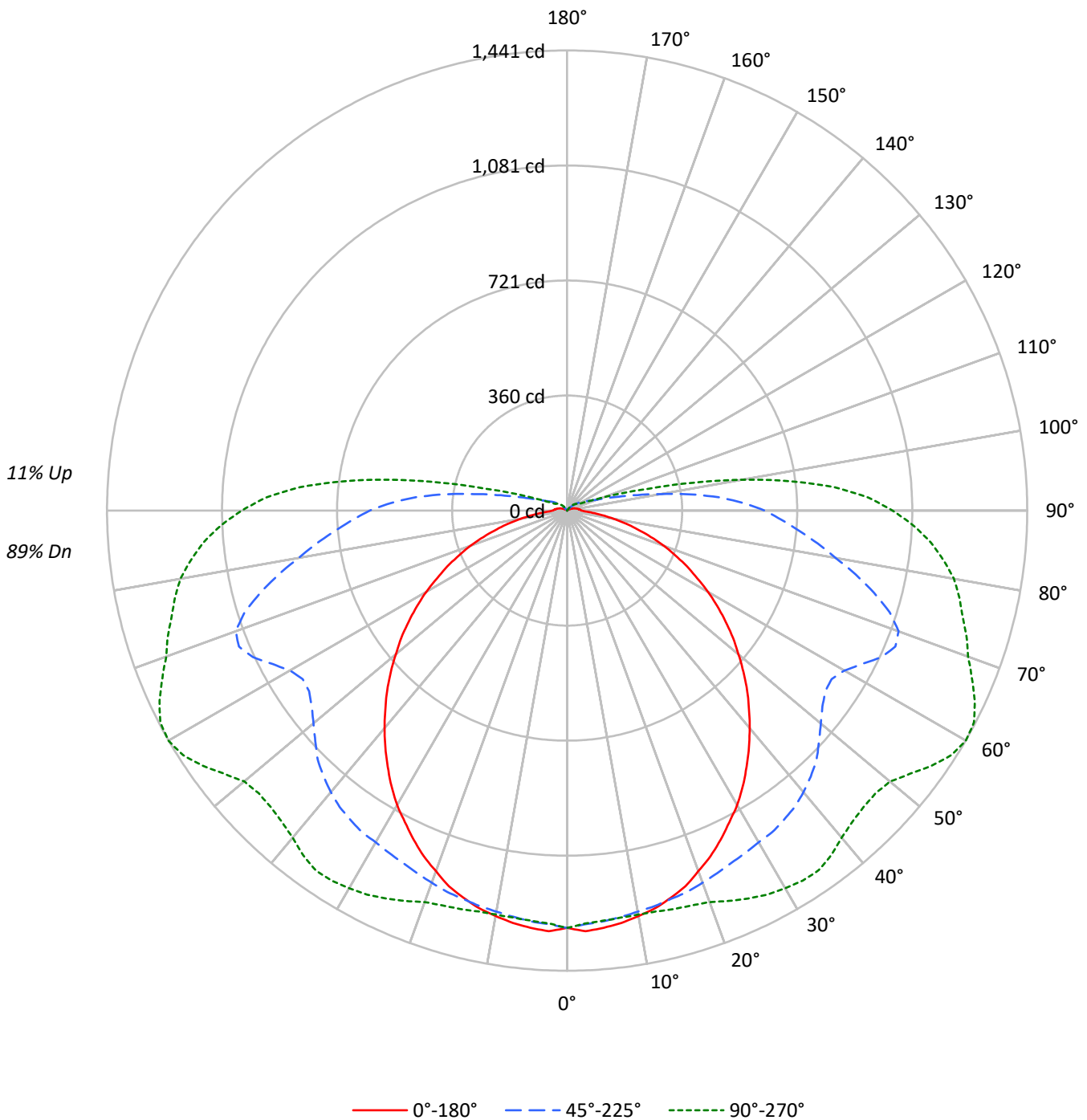
Input Watts (W): 156.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3376	3376	3376
5°	3395	3278	3249
10°	3370	3204	3183
15°	3340	3156	3171
20°	3279	3125	3198
25°	3212	3106	3307
30°	3140	3127	3415
35°	3046	3175	3515
40°	2950	3210	3524
45°	2855	3229	3597
50°	2749	3211	3796
55°	2651	3275	4251
60°	2545	3613	4721
65°	2425	4322	5021
70°	2310	4947	5267
75°	2117	5138	5703
80°	1952	5252	6329
85°	1918	5607	7045



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	1.8
10°-20°	358.8	5.2
20°-30°	569.1	8.2
30°-40°	737.8	10.6
40°-50°	832.3	12.0
50°-60°	901.6	13.0
60°-70°	969.8	14.0
70°-80°	923.3	13.3
80°-90°	756.9	10.9
90°-100°	501.1	7.2
100°-110°	180.3	2.6
110°-120°	54.7	0.8
120°-130°	26.6	0.4
130°-140°	11.1	0.2
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1051.4	15.1
0°-40°	1789.2	25.7
0°-60°	3523.1	50.7
0°-90°	6173.2	88.8
90°-120°	736.1	10.6
90°-150°	775.6	11.2
90°-180°	776.0	11.2
0°-180°	6948.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1312	1306	1292	1294	1289	124
15°	1255	1253	1259	1285	1292	354
25°	1137	1154	1217	1314	1341	524
35°	980	1033	1183	1327	1375	613
45°	797	892	1105	1252	1313	614
55°	606	736	987	1286	1393	542
65°	414	577	1086	1369	1408	410
75°	228	548	995	1200	1282	244
85°	80	397	729	1033	1143	79
90°	44	302	618	914	1019	25
95°	39	215	476	738	840	31
105°	26	80	167	233	264	28
115°	13	35	70	67	62	13
125°	5	12	41	42	37	5
135°	2	0	16	25	25	2
145°	1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8
2.5°	1318.5	1316.2	1312.6	1311.5	1311.5	1311.5	1311.5	1309.1	1305.7	1301.0	1296.3
5°	1311.5	1309.1	1305.7	1305.7	1304.5	1305.7	1305.7	1303.3	1301.0	1296.3	1291.6
7.5°	1302.2	1301.0	1296.3	1293.9	1293.9	1293.9	1296.3	1293.9	1292.8	1288.1	1283.4
10°	1289.3	1287.0	1284.6	1284.6	1285.8	1285.8	1285.8	1287.0	1284.6	1278.8	1275.3
12.5°	1275.3	1271.8	1269.4	1269.4	1270.6	1270.6	1271.8	1271.8	1271.8	1268.2	1268.2
15°	1255.4	1254.2	1249.5	1250.7	1250.7	1253.0	1254.2	1255.4	1254.2	1257.8	1258.9
17.5°	1233.2	1232.0	1227.4	1227.4	1229.7	1230.8	1234.3	1239.0	1241.4	1246.0	1251.8
20°	1201.6	1201.6	1199.3	1201.6	1206.3	1208.6	1211.0	1219.1	1223.8	1233.2	1240.2
22.5°	1172.4	1170.1	1170.1	1172.4	1177.0	1182.9	1187.6	1199.3	1207.4	1219.1	1228.5
25°	1137.4	1136.2	1135.0	1140.8	1147.8	1153.7	1161.8	1175.9	1187.6	1201.6	1216.8
27.5°	1099.9	1098.7	1101.1	1105.8	1118.6	1126.8	1133.8	1152.6	1166.6	1188.7	1208.6
30°	1064.9	1061.4	1063.7	1070.7	1087.0	1098.7	1105.8	1126.8	1146.6	1172.4	1199.3
32.5°	1023.9	1020.4	1025.1	1035.6	1054.3	1066.0	1078.9	1101.1	1124.5	1156.0	1194.6
35°	979.5	980.7	983.0	999.4	1019.3	1033.3	1046.2	1075.4	1104.6	1143.2	1182.9
37.5°	935.1	932.8	942.2	960.8	984.2	1001.8	1014.6	1045.0	1085.9	1128.0	1170.1
40°	889.5	891.8	898.9	919.9	944.5	966.6	980.7	1020.4	1064.9	1108.1	1151.4
42.5°	842.8	848.6	855.6	880.2	910.6	928.1	949.1	992.4	1039.1	1084.7	1129.1
45°	797.2	801.8	812.4	839.3	868.5	891.8	915.2	960.8	1012.2	1060.2	1104.6
47.5°	749.3	753.9	767.9	796.0	828.7	854.5	879.0	928.1	980.7	1029.8	1069.5
50°	700.2	707.2	721.2	749.3	792.5	815.9	840.4	894.2	943.3	991.2	1036.8
52.5°	654.6	658.1	680.3	707.2	751.6	778.5	801.8	856.8	903.5	957.3	1007.6
55°	605.5	612.5	632.4	659.3	708.3	736.4	763.3	815.9	868.5	924.6	986.6
57.5°	557.5	563.4	584.5	614.8	667.4	694.3	720.0	777.3	831.0	901.2	981.8
60°	509.6	516.6	537.7	572.7	625.4	653.4	680.3	741.0	811.2	897.7	1001.8
62.5°	459.4	471.0	486.2	529.5	583.3	611.4	644.1	714.2	806.6	916.4	1040.3
65°	413.8	419.6	443.0	487.4	544.7	577.4	614.8	704.8	821.8	956.2	1085.9
67.5°	365.8	374.1	399.8	448.9	513.1	551.7	598.5	714.2	856.8	999.4	1112.8
70°	322.6	328.5	360.0	413.8	491.0	541.2	598.5	737.6	890.7	1015.8	1104.6
72.5°	274.7	284.0	322.6	388.1	481.6	542.4	610.2	762.1	897.7	993.5	1059.0
75°	227.9	241.9	292.2	367.0	479.3	548.2	620.6	758.6	865.0	937.4	994.7
77.5°	189.4	206.9	263.0	353.0	474.6	542.4	609.0	717.7	803.0	872.0	925.8
80°	146.1	173.0	238.5	335.4	453.5	512.0	565.8	659.3	728.2	794.9	853.3
82.5°	111.0	141.4	212.7	308.6	410.2	459.4	501.4	584.5	656.9	720.0	791.4
85°	79.5	112.2	183.5	268.9	354.2	397.4	436.0	514.3	585.6	656.9	729.4
87.5°	55.0	87.7	155.4	230.2	306.2	341.3	378.7	453.5	523.7	592.6	672.1
90°	44.4	71.3	129.8	197.5	263.0	301.6	334.3	402.1	472.2	544.7	618.3
92.5°	42.1	59.6	108.7	167.1	227.9	259.5	289.9	351.8	417.3	485.1	550.6
95°	38.6	47.9	85.4	135.6	187.0	215.0	239.6	298.1	353.0	412.6	475.8
97.5°	36.2	38.6	65.4	105.2	148.5	171.8	191.7	237.3	286.4	332.0	389.2
100°	32.7	33.9	50.2	81.8	113.4	133.3	149.6	187.0	222.1	258.3	296.9
102.5°	29.2	29.2	38.6	60.8	88.8	101.7	115.7	146.1	171.8	195.2	224.4
105°	25.7	25.7	30.4	46.7	66.6	79.5	88.8	111.0	130.9	148.5	167.1
107.5°	23.4	22.2	24.6	36.2	52.6	61.9	71.3	87.7	102.9	114.6	127.4
110°	18.7	18.7	19.8	29.2	43.3	50.2	58.5	71.3	84.2	92.3	99.4



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CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LG52-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	16.4	15.2	15.2	23.4	35.0	42.1	47.9	60.8	71.3	78.3	81.8
115°	12.9	12.9	11.7	17.5	28.1	35.0	39.8	51.4	60.8	66.6	70.2
117.5°	10.5	10.5	10.5	12.9	23.4	28.1	33.9	44.4	52.6	58.5	61.9
120°	8.2	8.2	8.2	8.2	17.5	22.2	28.1	37.4	45.6	51.4	55.0
122.5°	7.0	5.8	5.8	5.8	11.7	17.5	21.0	30.4	38.6	44.4	49.1
125°	4.6	4.6	4.6	3.5	8.2	11.7	16.4	24.6	31.5	37.4	40.9
127.5°	3.5	3.5	3.5	3.5	3.5	7.0	10.5	18.7	25.7	31.5	35.0
130°	3.5	3.5	2.3	2.3	1.2	3.5	5.8	12.9	18.7	24.6	29.2
132.5°	2.3	2.3	2.3	1.2	1.2	1.2	2.3	8.2	14.0	18.7	22.2
135°	2.3	2.3	1.2	1.2	0.0	0.0	0.0	4.6	9.4	12.9	16.4
137.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	1.2	4.6	8.2	11.7
140°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.2	3.5	7.0
142.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
145°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.2	1.2	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°	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8	1306.8
2.5°	1296.3	1298.6	1298.6	1298.6	1298.6	1298.6	1296.3	1295.1	1293.9	1293.9
5°	1290.5	1292.8	1293.9	1293.9	1293.9	1293.9	1292.8	1291.6	1290.5	1289.3
7.5°	1283.4	1287.0	1289.3	1290.5	1290.5	1290.5	1289.3	1289.3	1287.0	1285.8
10°	1276.4	1279.9	1283.4	1285.8	1287.0	1287.0	1287.0	1287.0	1285.8	1284.6
12.5°	1271.8	1277.6	1282.2	1284.6	1284.6	1285.8	1288.1	1288.1	1287.0	1285.8
15°	1265.9	1275.3	1281.1	1284.6	1284.6	1287.0	1291.6	1291.6	1290.5	1291.6
17.5°	1261.2	1270.6	1279.9	1285.8	1288.1	1291.6	1295.1	1296.3	1297.4	1296.3
20°	1251.8	1267.0	1279.9	1287.0	1291.6	1292.8	1301.0	1306.8	1306.8	1304.5
22.5°	1248.4	1265.9	1281.1	1296.3	1298.6	1303.3	1313.8	1319.7	1323.2	1323.2
25°	1241.4	1264.7	1287.0	1305.7	1313.8	1319.7	1330.2	1339.5	1337.2	1340.7
27.5°	1237.8	1265.9	1288.1	1311.5	1323.2	1329.0	1344.2	1350.1	1353.6	1355.9
30°	1235.5	1267.0	1291.6	1317.4	1326.7	1338.4	1352.4	1361.8	1366.4	1365.3
32.5°	1232.0	1263.6	1295.1	1317.4	1331.4	1340.7	1354.7	1365.3	1372.2	1373.4
35°	1223.8	1260.1	1289.3	1316.2	1326.7	1338.4	1354.7	1360.6	1372.2	1374.6
37.5°	1213.3	1248.4	1276.4	1305.7	1316.2	1325.5	1345.4	1351.2	1355.9	1359.4
40°	1197.0	1229.7	1260.1	1288.1	1297.4	1308.0	1322.0	1331.4	1338.4	1337.2
42.5°	1175.9	1206.3	1235.5	1265.9	1272.9	1284.6	1302.2	1312.6	1319.7	1322.0
45°	1142.0	1177.0	1211.0	1237.8	1251.8	1264.7	1284.6	1296.3	1304.5	1312.6
47.5°	1109.3	1152.6	1191.1	1221.5	1237.8	1250.7	1275.3	1292.8	1305.7	1310.3
50°	1083.5	1128.0	1172.4	1218.0	1235.5	1251.8	1279.9	1298.6	1312.6	1319.7
52.5°	1062.5	1116.3	1172.4	1228.5	1253.0	1272.9	1305.7	1329.0	1347.8	1353.6
55°	1054.3	1122.2	1193.4	1257.8	1285.8	1311.5	1348.9	1371.1	1389.8	1393.3
57.5°	1068.4	1159.5	1237.8	1304.5	1332.6	1353.6	1389.8	1408.5	1423.7	1426.1
60°	1107.0	1202.8	1284.6	1341.9	1371.1	1389.8	1416.7	1430.7	1441.2	1441.2
62.5°	1154.9	1241.4	1312.6	1360.6	1381.6	1395.7	1412.0	1428.4	1431.9	1436.6
65°	1191.1	1265.9	1315.0	1350.1	1368.8	1374.6	1392.2	1399.1	1408.5	1408.5
67.5°	1193.4	1253.0	1288.1	1316.2	1326.7	1334.9	1355.9	1364.1	1371.1	1372.2
70°	1161.8	1202.8	1242.6	1267.0	1278.8	1295.1	1315.0	1327.8	1334.9	1336.0
72.5°	1111.6	1149.0	1188.7	1226.2	1242.6	1256.6	1282.2	1299.8	1306.8	1311.5
75°	1050.8	1091.8	1139.7	1184.1	1200.5	1214.5	1250.7	1267.0	1281.1	1282.2
77.5°	985.4	1034.5	1090.6	1138.5	1159.5	1184.1	1213.3	1237.8	1248.4	1257.8
80°	919.9	983.0	1040.3	1096.4	1116.3	1144.3	1179.4	1207.4	1219.1	1229.7
82.5°	858.0	929.3	999.4	1056.6	1078.9	1103.4	1139.7	1171.2	1181.8	1188.7
85°	804.2	877.8	946.8	1005.3	1033.3	1054.3	1095.3	1122.2	1137.4	1143.2
87.5°	746.9	821.8	889.5	952.6	976.0	997.0	1039.1	1068.4	1082.4	1085.9
90°	690.8	767.9	831.0	886.0	914.1	939.8	978.3	1005.3	1019.3	1019.3
92.5°	619.5	693.1	759.8	810.0	837.0	858.0	900.1	919.9	943.3	943.3
95°	537.7	602.0	663.9	715.4	737.6	759.8	794.9	821.8	834.6	840.4
97.5°	445.4	494.4	550.6	592.6	623.0	630.0	668.6	695.5	709.5	704.8
100°	335.4	374.1	418.5	453.5	476.9	489.8	516.6	531.8	552.9	555.2
102.5°	250.2	278.2	303.9	323.8	342.5	348.3	367.0	382.2	391.6	402.1
105°	183.5	199.8	215.0	229.1	232.6	243.1	258.3	268.9	263.0	264.2
107.5°	136.7	145.0	153.1	157.8	163.7	170.6	174.2	174.2	180.0	182.3
110°	104.0	108.7	112.2	113.4	115.7	115.7	115.7	115.7	116.9	119.2





TEST NUMBER: P397359

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LG52-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	83.0	85.4	85.4	85.4	84.2	84.2	83.0	81.8	79.5	81.8
115°	71.3	71.3	69.0	67.8	66.6	65.4	63.1	60.8	59.6	61.9
117.5°	63.1	61.9	60.8	57.3	56.1	55.0	52.6	51.4	49.1	47.9
120°	56.1	56.1	53.8	52.6	51.4	49.1	46.7	45.6	43.3	42.1
122.5°	50.2	50.2	49.1	47.9	46.7	45.6	43.3	42.1	39.8	39.8
125°	43.3	44.4	44.4	43.3	42.1	42.1	39.8	38.6	37.4	37.4
127.5°	37.4	38.6	39.8	39.8	38.6	38.6	37.4	36.2	35.0	33.9
130°	31.5	33.9	33.9	35.0	35.0	33.9	33.9	32.7	31.5	31.5
132.5°	25.7	28.1	29.2	29.2	30.4	30.4	30.4	29.2	29.2	28.1
135°	19.8	22.2	23.4	24.6	24.6	25.7	25.7	24.6	24.6	24.6
137.5°	15.2	16.4	18.7	19.8	19.8	19.8	19.8	19.8	19.8	19.8
140°	9.4	11.7	14.0	14.0	15.2	15.2	15.2	15.2	15.2	15.2
142.5°	4.6	7.0	8.2	9.4	9.4	10.5	10.5	10.5	10.5	10.5
145°	1.2	2.3	3.5	4.6	5.8	5.8	5.8	5.8	5.8	5.8
147.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
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)