

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: CORELITE

Report Number: P395081

Luminaire Tested: **I3-WL-50L930-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-WL-50L930-1D-UNV-STD-W-4  
Description: CORELITE I3, DOWNLIGHT TRAY  
5000 LUMENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

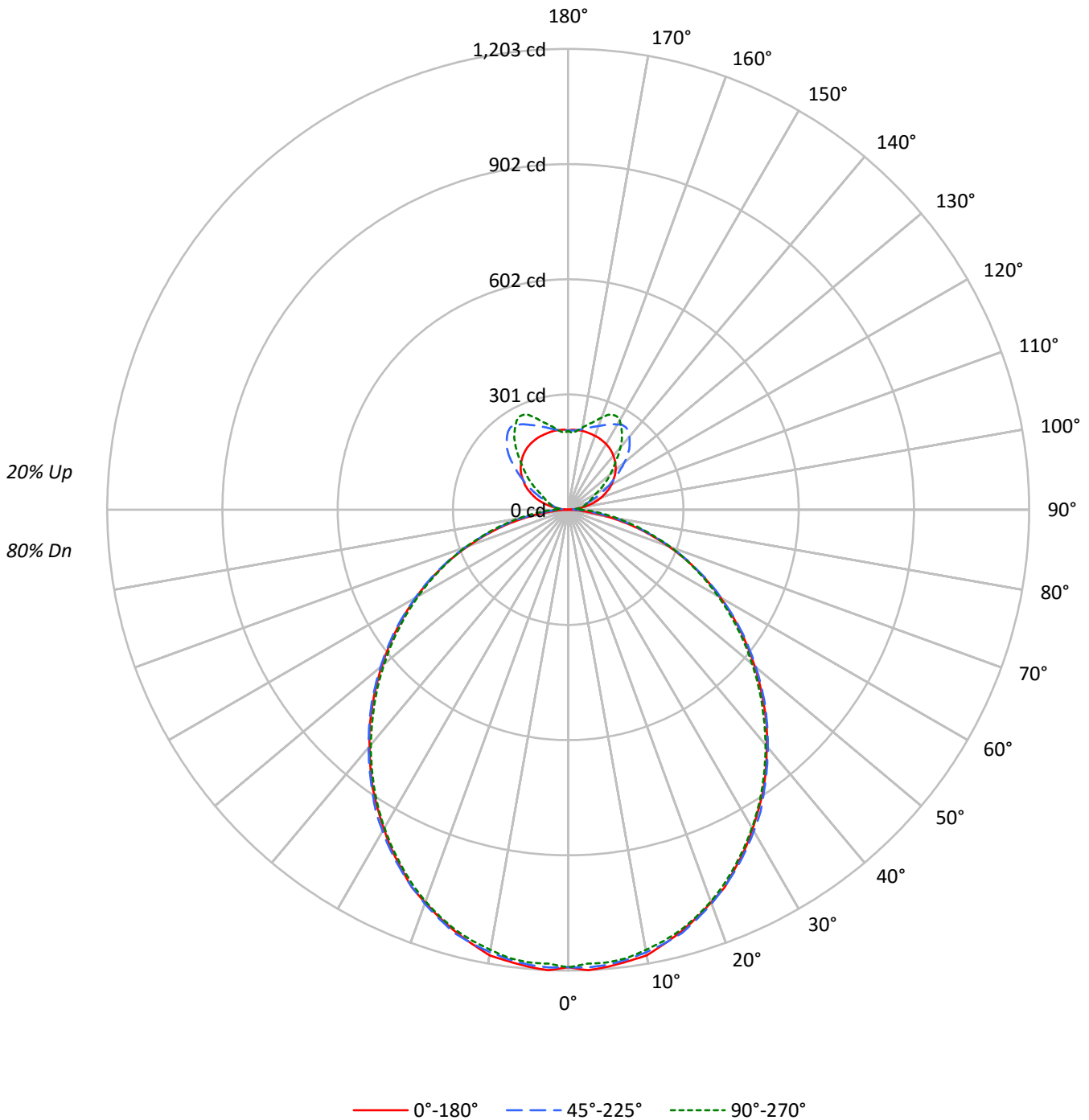
Lumens per Lamp: N/A  
Luminaire Lumens: 3956.6 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 42.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67				
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56				
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47				
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40				
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35				
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24				
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22				
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6564	6564	6564
5°	6582	6429	6359
10°	6543	6254	6152
15°	6413	6081	5933
20°	6285	5836	5676
25°	6135	5589	5393
30°	5959	5331	5104
35°	5794	5047	4804
40°	5586	4754	4493
45°	5386	4468	4165
50°	5172	4154	3834
55°	4947	3832	3496
60°	4696	3475	3148
65°	4407	3088	2774
70°	3999	2637	2381
75°	3444	2090	1913
80°	2629	1505	1427
85°	1375	900	968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	2.9
10°-20°	320.1	8.1
20°-30°	473.9	12.0
30°-40°	553.9	14.0
40°-50°	556.3	14.1
50°-60°	489.0	12.4
60°-70°	366.4	9.3
70°-80°	208.4	5.3
80°-90°	65.8	1.7
90°-100°	23.7	0.6
100°-110°	57.8	1.5
110°-120°	96.0	2.4
120°-130°	134.7	3.4
130°-140°	155.2	3.9
140°-150°	148.2	3.7
150°-160°	111.5	2.8
160°-170°	63.1	1.6
170°-180°	20.0	0.5
0°-30°	906.8	22.9
0°-40°	1460.6	36.9
0°-60°	2506.0	63.3
0°-90°	3146.5	79.5
90°-120°	177.5	4.5
90°-150°	615.6	15.6
90°-180°	810.0	20.5
0°-180°	3956.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1197	1185	1192	1188	1186	114
15°	1140	1130	1145	1137	1136	321
25°	1032	1029	1036	1032	1028	475
35°	889	882	892	885	883	555
45°	722	721	728	719	714	558
55°	548	550	552	545	538	489
65°	370	371	373	370	366	365
75°	188	191	196	202	202	199
85°	32	42	58	71	74	42
90°	1	6	18	27	31	3
95°	17	17	17	19	20	19
105°	68	58	43	46	46	71
115°	111	138	85	69	68	110
125°	146	202	153	122	113	131
135°	174	220	225	187	174	134
145°	192	218	263	252	244	120
155°	202	214	244	270	274	93
165°	207	210	222	231	234	59
175°	209	207	207	207	204	20
180°	206	206	206	206	206	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3
2.5°	1203.4	1201.3	1196.3	1191.2	1190.2	1189.2	1189.2	1188.2	1188.2	1190.2	1196.3
5°	1197.3	1196.3	1191.2	1186.2	1185.2	1185.2	1184.2	1184.2	1184.2	1186.2	1192.3
7.5°	1189.2	1187.2	1182.2	1177.1	1176.1	1176.1	1176.1	1175.1	1176.1	1177.1	1184.2
10°	1181.2	1180.2	1175.1	1169.1	1167.0	1167.0	1166.0	1164.0	1164.0	1166.0	1173.0
12.5°	1160.9	1159.9	1154.9	1150.9	1150.9	1151.9	1151.9	1152.9	1152.9	1154.9	1159.9
15°	1139.8	1138.7	1133.7	1129.6	1129.6	1129.6	1128.6	1128.6	1129.6	1135.7	1144.7
17.5°	1116.5	1115.4	1111.5	1107.4	1107.4	1107.4	1106.4	1106.4	1107.4	1110.5	1119.5
20°	1091.2	1090.2	1086.1	1082.2	1082.2	1082.2	1081.2	1082.2	1082.2	1086.1	1094.3
22.5°	1067.0	1065.0	1059.9	1055.8	1053.9	1053.9	1053.9	1052.9	1054.8	1057.9	1066.0
25°	1031.6	1030.6	1028.6	1025.5	1027.5	1028.6	1026.5	1024.6	1024.6	1028.6	1035.7
27.5°	999.2	997.2	994.3	991.2	989.2	990.2	991.2	993.2	996.2	997.2	1003.3
30°	961.9	960.9	957.8	953.8	954.8	955.8	955.8	955.8	957.8	967.0	968.9
32.5°	925.5	924.5	921.5	917.4	918.5	919.5	918.5	919.5	921.5	925.5	934.6
35°	889.2	887.1	884.1	883.1	882.0	882.0	882.0	883.1	884.1	887.1	892.2
37.5°	847.7	845.7	843.7	840.6	842.7	844.7	845.7	844.7	845.7	849.8	851.7
40°	806.3	805.3	803.3	801.3	802.3	803.3	802.3	805.3	807.3	809.3	810.3
42.5°	766.9	764.8	762.9	761.9	761.9	762.9	762.9	764.8	764.8	769.9	768.9
45°	722.4	721.4	720.4	720.4	721.4	721.4	721.4	722.4	723.4	726.5	727.5
47.5°	679.0	677.9	677.9	677.9	677.9	679.0	680.0	683.0	681.0	682.0	683.0
50°	635.5	634.5	634.5	634.5	636.5	636.5	638.6	639.6	640.6	638.6	639.6
52.5°	591.0	590.0	592.1	592.1	594.1	594.1	597.1	594.1	596.1	595.1	595.1
55°	547.6	546.6	548.6	547.6	549.6	549.6	551.7	552.7	551.7	551.7	551.7
57.5°	503.1	502.2	503.1	504.2	505.2	505.2	508.2	508.2	505.2	507.2	506.2
60°	458.7	457.7	458.7	459.7	460.7	460.7	461.7	459.7	461.7	462.7	461.7
62.5°	414.3	413.3	415.2	414.3	415.2	416.2	416.2	419.3	418.3	418.3	417.3
65°	369.8	368.8	368.8	368.8	369.8	370.8	371.8	372.8	372.8	373.8	372.8
67.5°	324.4	323.3	324.4	323.3	324.4	325.4	327.4	328.3	328.3	329.4	328.3
70°	277.9	278.9	277.9	278.9	279.9	280.9	281.9	283.9	283.9	283.9	283.9
72.5°	232.4	231.4	231.4	230.4	232.4	233.4	234.4	237.5	237.5	238.5	238.5
75°	187.9	185.9	186.9	185.9	190.0	191.0	191.0	194.0	195.0	197.0	196.0
77.5°	144.5	144.5	142.4	145.5	146.5	148.5	150.6	152.6	153.5	156.6	156.6
80°	103.1	103.1	102.1	104.1	108.1	109.1	112.1	113.1	116.2	118.2	119.2
82.5°	65.7	65.7	65.7	68.7	71.7	72.7	75.8	78.8	80.8	83.8	84.9
85°	32.4	34.4	34.4	38.4	40.4	42.4	43.4	47.5	50.5	54.5	57.6
87.5°	10.1	11.1	12.1	14.1	18.2	19.2	21.2	25.2	28.3	32.4	35.4
90°	1.0	1.0	2.0	3.1	5.1	6.1	8.1	10.1	13.1	16.2	18.2
92.5°	7.1	7.1	8.1	8.1	8.1	8.1	8.1	9.1	10.1	12.1	13.1
95°	17.2	27.3	16.2	15.2	17.2	17.2	18.2	17.2	17.2	17.2	17.2
97.5°	28.3	50.5	33.4	23.2	22.2	23.2	23.2	25.2	26.3	27.3	27.3
100°	41.4	63.7	58.6	38.4	31.3	30.3	30.3	30.3	31.3	32.4	33.4
102.5°	54.5	72.7	83.8	59.6	44.5	40.4	38.4	37.4	36.4	37.4	37.4
105°	67.7	81.8	103.1	80.8	63.7	57.6	51.5	44.5	43.4	43.4	43.4
107.5°	79.8	91.0	117.2	105.1	82.8	76.8	69.7	58.6	51.5	50.5	49.5
110°	91.0	100.0	127.3	125.3	104.1	95.0	88.9	76.8	66.6	59.6	56.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.0	109.1	134.4	142.4	127.3	116.2	107.1	95.0	83.8	74.8	67.7
115°	111.1	118.2	140.4	156.6	147.5	138.4	128.3	113.1	102.1	93.0	84.9
117.5°	121.3	127.3	146.5	166.7	164.7	158.6	150.6	132.4	119.2	110.1	101.0
120°	130.3	136.4	152.6	173.8	179.9	174.8	169.7	153.5	137.4	127.3	119.2
122.5°	138.4	143.5	158.6	179.9	191.0	190.0	184.9	173.8	157.6	145.5	135.4
125°	146.5	151.6	164.7	183.9	199.0	202.1	200.0	191.0	178.9	164.7	152.6
127.5°	154.6	158.6	170.7	187.9	205.1	211.2	212.1	206.1	197.0	184.9	171.7
130°	161.7	165.7	175.8	191.0	209.2	216.2	220.3	219.3	212.1	204.1	191.0
132.5°	167.7	170.7	180.9	194.0	211.2	219.3	225.3	230.4	225.3	219.3	210.2
135°	173.8	176.8	184.9	197.0	212.1	220.3	228.3	236.5	237.5	232.4	225.3
137.5°	178.9	180.9	188.9	199.0	212.1	220.3	228.3	239.5	245.5	243.5	237.5
140°	183.9	185.9	192.0	202.1	213.2	220.3	227.3	240.5	248.6	251.6	248.6
142.5°	187.9	190.0	195.0	204.1	213.2	219.3	226.3	238.5	249.6	255.6	257.6
145°	192.0	193.0	198.0	205.1	213.2	218.2	224.3	236.5	247.5	256.6	262.7
147.5°	195.0	196.0	199.0	206.1	213.2	217.2	222.3	232.4	243.5	253.6	262.7
150°	198.0	198.0	201.1	206.1	213.2	216.2	220.3	229.3	238.5	248.6	256.6
152.5°	200.0	200.0	203.1	207.2	212.1	215.2	219.3	226.3	234.4	243.5	251.6
155°	202.1	202.1	204.1	207.2	212.1	214.2	217.2	223.3	230.4	237.5	244.5
157.5°	204.1	204.1	205.1	208.2	211.2	213.2	216.2	221.3	226.3	232.4	238.5
160°	205.1	205.1	206.1	208.2	210.2	212.1	214.2	218.2	223.3	227.3	232.4
162.5°	206.1	206.1	207.2	208.2	210.2	211.2	212.1	216.2	219.3	223.3	227.3
165°	207.2	207.2	207.2	208.2	209.2	210.2	211.2	213.2	216.2	219.3	222.3
167.5°	208.2	208.2	208.2	208.2	209.2	209.2	210.2	211.2	213.2	215.2	217.2
170°	209.2	208.2	208.2	209.2	208.2	208.2	209.2	210.2	210.2	212.1	213.2
172.5°	209.2	209.2	208.2	208.2	208.2	208.2	208.2	208.2	208.2	209.2	210.2
175°	209.2	209.2	208.2	208.2	208.2	207.2	207.2	207.2	207.2	207.2	207.2
177.5°	209.2	209.2	208.2	208.2	207.2	207.2	207.2	207.2	207.2	207.2	207.2
180°	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3
2.5°	1202.3	1197.3	1195.3	1194.3	1193.3	1192.3	1190.2	1188.2	1186.2	1186.2
5°	1197.3	1192.3	1190.2	1189.2	1188.2	1187.2	1186.2	1186.2	1186.2	1186.2
7.5°	1189.2	1184.2	1182.2	1181.2	1181.2	1180.2	1180.2	1180.2	1179.1	1180.2
10°	1177.1	1172.0	1171.0	1170.1	1169.1	1167.0	1167.0	1167.0	1166.0	1167.0
12.5°	1161.9	1156.9	1155.9	1154.9	1153.9	1152.9	1152.9	1151.9	1151.9	1152.9
15°	1146.8	1139.8	1137.7	1137.7	1136.7	1135.7	1136.7	1135.7	1135.7	1135.7
17.5°	1124.6	1121.5	1118.5	1116.5	1115.4	1114.4	1114.4	1113.4	1113.4	1113.4
20°	1095.3	1095.3	1095.3	1090.2	1089.2	1088.2	1088.2	1088.2	1088.2	1088.2
22.5°	1067.0	1061.9	1066.0	1062.9	1060.9	1058.9	1059.9	1059.9	1059.9	1059.9
25°	1035.7	1031.6	1032.6	1033.6	1031.6	1028.6	1028.6	1028.6	1028.6	1027.5
27.5°	1002.3	999.2	998.2	999.2	1001.3	999.2	996.2	993.2	994.3	994.3
30°	966.0	965.0	963.9	961.9	963.9	965.0	959.9	958.9	958.9	958.9
32.5°	929.6	928.5	925.5	923.5	924.5	926.5	924.5	922.5	922.5	922.5
35°	893.2	889.2	886.1	885.1	885.1	887.1	886.1	883.1	883.1	883.1
37.5°	850.8	851.7	846.7	845.7	845.7	845.7	847.7	842.7	843.7	842.7
40°	809.3	810.3	807.3	804.3	805.3	803.3	806.3	801.3	801.3	801.3
42.5°	767.9	765.8	766.9	760.9	761.9	761.9	762.9	759.8	758.8	757.8
45°	725.5	723.4	722.4	719.4	719.4	718.4	718.4	714.4	714.4	714.4
47.5°	681.0	680.0	677.9	676.0	676.0	675.0	672.9	671.9	670.9	670.9
50°	638.6	635.5	632.5	633.5	632.5	631.5	629.5	628.5	627.5	626.5
52.5°	593.1	593.1	589.1	589.1	589.1	588.1	586.1	584.0	584.0	583.0
55°	548.6	547.6	544.6	543.6	544.6	543.6	541.6	539.6	539.6	538.5
57.5°	504.2	502.2	501.2	501.2	500.2	500.2	497.1	495.1	496.1	495.1
60°	458.7	458.7	457.7	456.7	456.7	455.7	452.7	452.7	452.7	451.7
62.5°	415.2	415.2	413.3	412.3	413.3	412.3	411.3	410.2	409.2	408.2
65°	369.8	370.8	368.8	369.8	369.8	367.8	367.8	366.8	366.8	365.8
67.5°	327.4	327.4	326.4	326.4	327.4	326.4	326.4	325.4	325.4	324.4
70°	283.9	285.9	284.9	284.9	284.9	283.9	283.9	283.9	282.9	283.9
72.5°	240.5	240.5	240.5	240.5	240.5	241.4	241.4	241.4	241.4	240.5
75°	200.0	201.1	200.0	201.1	202.1	202.1	202.1	202.1	203.1	202.1
77.5°	160.7	161.7	161.7	163.7	163.7	163.7	164.7	164.7	164.7	164.7
80°	123.3	124.3	125.3	127.3	127.3	129.3	130.3	130.3	130.3	130.3
82.5°	88.9	92.0	93.0	95.9	97.0	97.0	99.0	100.0	100.0	100.0
85°	61.7	64.7	66.6	68.7	70.7	70.7	72.7	72.7	73.8	73.8
87.5°	38.4	41.4	43.4	46.5	47.5	48.5	49.5	50.5	51.5	51.5
90°	21.2	23.2	25.2	27.3	27.3	28.3	29.3	30.3	31.3	31.3
92.5°	15.2	16.2	18.2	19.2	19.2	20.2	21.2	21.2	22.2	22.2
95°	17.2	18.2	18.2	19.2	19.2	19.2	20.2	20.2	20.2	20.2
97.5°	26.3	26.3	26.3	25.2	25.2	25.2	25.2	25.2	25.2	25.2
100°	34.4	35.4	35.4	35.4	36.4	36.4	36.4	36.4	35.4	35.4
102.5°	38.4	39.4	40.4	41.4	41.4	41.4	42.4	42.4	42.4	42.4
105°	43.4	43.4	44.5	45.5	45.5	45.5	46.5	46.5	46.5	46.5
107.5°	49.5	49.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
110°	56.6	56.6	56.6	55.6	56.6	55.6	55.6	55.6	55.6	55.6





TEST NUMBER: P395081

CATALOG NUMBER: I3-WL-50L930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	64.7	63.7	63.7	62.7	62.7	62.7	61.7	61.7	61.7	61.7
115°	77.8	72.7	70.7	68.7	68.7	68.7	67.7	67.7	67.7	67.7
117.5°	94.0	86.9	82.8	78.8	77.8	76.8	74.8	74.8	73.8	73.8
120°	111.1	104.1	98.0	93.0	91.0	89.9	86.9	84.9	82.8	82.8
122.5°	127.3	120.3	114.2	109.1	107.1	105.1	102.1	100.0	98.0	98.0
125°	143.5	136.4	130.3	125.3	122.3	120.3	117.2	115.2	113.1	113.1
127.5°	160.7	151.6	145.5	140.4	137.4	136.4	132.4	130.3	128.3	128.3
130°	179.9	168.7	160.7	154.6	152.6	150.6	147.5	145.5	143.5	143.5
132.5°	199.0	187.9	178.9	170.7	167.7	165.7	161.7	159.6	157.6	157.6
135°	217.2	207.2	198.0	190.0	186.9	183.9	179.9	175.8	173.8	173.8
137.5°	231.4	224.3	216.2	209.2	206.1	203.1	199.0	195.0	192.0	193.0
140°	243.5	237.5	232.4	227.3	224.3	222.3	218.2	215.2	212.1	212.1
142.5°	254.6	249.6	244.5	240.5	239.5	238.5	235.4	232.4	230.4	230.4
145°	264.7	261.7	257.6	252.6	251.6	250.6	247.5	245.5	244.5	244.5
147.5°	267.8	268.8	267.8	264.7	263.7	262.7	260.7	258.6	257.6	257.6
150°	265.8	269.8	271.8	271.8	271.8	271.8	271.8	269.8	268.8	268.8
152.5°	259.7	265.8	269.8	272.8	273.8	274.8	274.8	275.8	274.8	274.8
155°	252.6	258.6	264.7	267.8	269.8	270.7	272.8	273.8	274.8	273.8
157.5°	244.5	249.6	253.6	259.7	261.7	263.7	265.8	267.8	268.8	267.8
160°	237.5	241.4	244.5	248.6	249.6	251.6	253.6	254.6	256.6	255.6
162.5°	230.4	233.4	236.5	238.5	240.5	241.4	243.5	244.5	245.5	244.5
165°	225.3	227.3	228.3	230.4	231.4	232.4	233.4	234.4	234.4	234.4
167.5°	219.3	221.3	222.3	223.3	224.3	225.3	225.3	226.3	226.3	226.3
170°	214.2	215.2	216.2	217.2	217.2	218.2	218.2	218.2	219.3	218.2
172.5°	210.2	210.2	210.2	211.2	211.2	211.2	211.2	211.2	211.2	210.2
175°	208.2	208.2	207.2	207.2	207.2	207.2	207.2	206.1	205.1	204.1
177.5°	207.2	206.1	206.1	205.1	205.1	205.1	204.1	203.1	202.1	201.1
180°	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1

(END OF REPORT)