

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: P393849

Luminaire Tested: **I3-WL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393849
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-50L840-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4857.6 lumens
Efficiency: N/A
Efficacy: 113.2 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

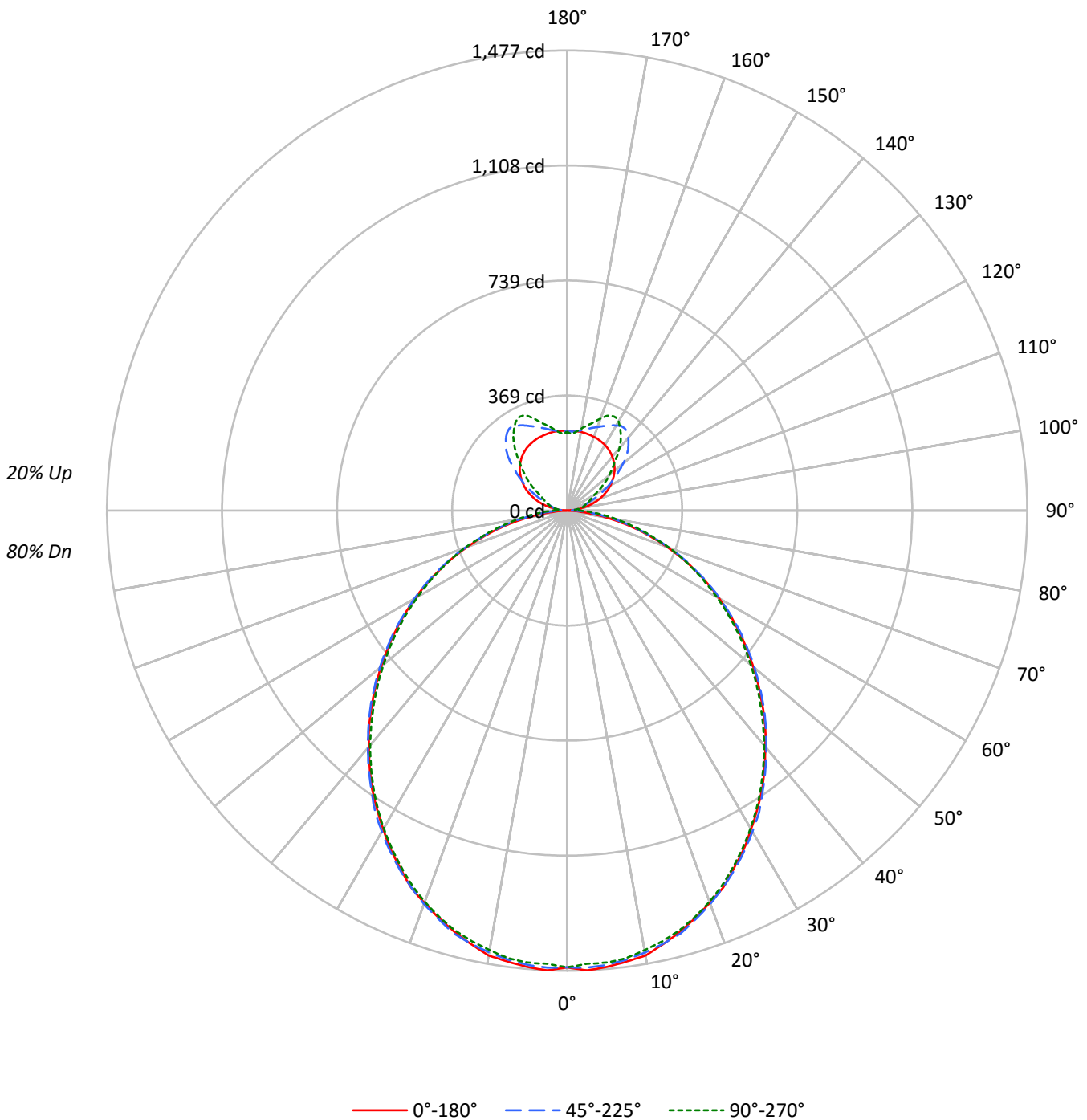
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8059	8059	8059
5°	8081	7893	7807
10°	8033	7678	7552
15°	7872	7466	7284
20°	7717	7165	6969
25°	7531	6861	6622
30°	7315	6546	6266
35°	7113	6196	5898
40°	6858	5837	5515
45°	6613	5484	5113
50°	6350	5099	4707
55°	6073	4705	4293
60°	5766	4267	3864
65°	5411	3792	3405
70°	4908	3238	2924
75°	4228	2566	2348
80°	3226	1848	1752
85°	1684	1104	1188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	2.9
10°-20°	392.9	8.1
20°-30°	581.8	12.0
30°-40°	680.0	14.0
40°-50°	683.0	14.1
50°-60°	600.3	12.4
60°-70°	449.8	9.3
70°-80°	255.8	5.3
80°-90°	80.8	1.7
90°-100°	29.1	0.6
100°-110°	70.9	1.5
110°-120°	117.9	2.4
120°-130°	165.3	3.4
130°-140°	190.6	3.9
140°-150°	182.0	3.7
150°-160°	136.9	2.8
160°-170°	77.5	1.6
170°-180°	24.5	0.5
0°-30°	1113.3	22.9
0°-40°	1793.2	36.9
0°-60°	3076.6	63.3
0°-90°	3863.0	79.5
90°-120°	217.9	4.5
90°-150°	755.8	15.6
90°-180°	995.0	20.5
0°-180°	4857.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1470	1455	1464	1459	1456	140
15°	1399	1387	1406	1396	1394	395
25°	1266	1263	1272	1266	1262	584
35°	1092	1083	1095	1087	1084	681
45°	887	886	893	883	877	685
55°	672	675	677	669	661	601
65°	454	455	458	454	449	448
75°	231	234	241	248	248	244
85°	40	52	71	87	91	52
90°	1	7	22	34	38	3
95°	21	21	21	24	25	23
105°	83	71	53	56	57	87
115°	136	170	104	84	83	135
125°	180	248	187	150	139	161
135°	213	270	277	230	213	164
145°	236	268	322	309	300	147
155°	248	263	300	331	336	115
165°	254	258	273	284	288	72
175°	257	254	254	254	251	25
180°	253	253	253	253	253	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1477.4	1474.9	1468.7	1462.5	1461.3	1460.0	1460.0	1458.8	1458.8	1461.3	1468.7
5°	1470.0	1468.7	1462.5	1456.3	1455.1	1455.1	1453.8	1453.8	1453.8	1456.3	1463.8
7.5°	1460.0	1457.6	1451.3	1445.1	1443.9	1443.9	1443.9	1442.7	1443.9	1445.1	1453.8
10°	1450.1	1448.9	1442.7	1435.2	1432.7	1432.7	1431.5	1429.0	1429.0	1431.5	1440.2
12.5°	1425.3	1424.1	1417.9	1412.9	1412.9	1414.1	1414.1	1415.4	1415.4	1417.9	1424.1
15°	1399.2	1398.0	1391.8	1386.8	1386.8	1386.8	1385.6	1385.6	1386.8	1394.3	1405.5
17.5°	1370.7	1369.5	1364.5	1359.6	1359.6	1359.6	1358.3	1358.3	1359.6	1363.3	1374.4
20°	1339.7	1338.5	1333.5	1328.5	1328.5	1328.5	1327.3	1328.5	1328.5	1333.5	1343.4
22.5°	1309.9	1307.5	1301.3	1296.3	1293.8	1293.8	1293.8	1292.6	1295.1	1298.8	1308.7
25°	1266.5	1265.3	1262.8	1259.1	1261.6	1262.8	1260.3	1257.8	1257.8	1262.8	1271.5
27.5°	1226.8	1224.3	1220.6	1216.9	1214.4	1215.7	1216.9	1219.4	1223.1	1224.3	1231.8
30°	1180.9	1179.7	1176.0	1171.0	1172.2	1173.5	1173.5	1173.5	1176.0	1187.1	1189.6
32.5°	1136.3	1135.0	1131.3	1126.3	1127.6	1128.8	1127.6	1128.8	1131.3	1136.3	1147.4
35°	1091.6	1089.1	1085.4	1084.2	1082.9	1082.9	1082.9	1084.2	1085.4	1089.1	1095.3
37.5°	1040.8	1038.3	1035.8	1032.1	1034.6	1037.0	1038.3	1037.0	1038.3	1043.2	1045.7
40°	989.9	988.7	986.2	983.7	984.9	986.2	984.9	988.7	991.1	993.6	994.9
42.5°	941.5	939.0	936.6	935.3	935.3	936.6	936.6	939.0	939.0	945.2	944.0
45°	886.9	885.7	884.5	884.5	885.7	885.7	885.7	886.9	888.2	891.9	893.1
47.5°	833.6	832.4	832.4	832.4	832.4	833.6	834.8	838.6	836.1	837.3	838.6
50°	780.3	779.0	779.0	779.0	781.5	781.5	784.0	785.2	786.5	784.0	785.2
52.5°	725.7	724.4	726.9	726.9	729.4	729.4	733.1	729.4	731.9	730.6	730.6
55°	672.3	671.1	673.6	672.3	674.8	674.8	677.3	678.5	677.3	677.3	677.3
57.5°	617.8	616.5	617.8	619.0	620.2	620.2	624.0	624.0	620.2	622.7	621.5
60°	563.2	561.9	563.2	564.4	565.7	565.7	566.9	564.4	566.9	568.1	566.9
62.5°	508.6	507.4	509.8	508.6	509.8	511.1	511.1	514.8	513.6	513.6	512.3
65°	454.0	452.8	452.8	452.8	454.0	455.3	456.5	457.7	457.7	459.0	457.7
67.5°	398.2	397.0	398.2	397.0	398.2	399.4	401.9	403.2	403.2	404.4	403.2
70°	341.1	342.4	341.1	342.4	343.6	344.9	346.1	348.6	348.6	348.6	348.6
72.5°	285.3	284.1	284.1	282.8	285.3	286.5	287.8	291.5	291.5	292.8	292.8
75°	230.7	228.2	229.5	228.2	233.2	234.4	234.4	238.2	239.4	241.9	240.7
77.5°	177.4	177.4	174.9	178.6	179.9	182.3	184.8	187.3	188.6	192.3	192.3
80°	126.5	126.5	125.3	127.8	132.7	134.0	137.7	138.9	142.7	145.1	146.4
82.5°	80.6	80.6	80.6	84.4	88.1	89.3	93.0	96.8	99.2	103.0	104.2
85°	39.7	42.2	42.2	47.1	49.6	52.1	53.3	58.3	62.0	67.0	70.7
87.5°	12.4	13.6	14.9	17.4	22.3	23.6	26.0	31.0	34.7	39.7	43.4
90°	1.2	1.2	2.5	3.7	6.2	7.4	9.9	12.4	16.1	19.8	22.3
92.5°	8.7	8.7	9.9	9.9	9.9	9.9	9.9	11.2	12.4	14.9	16.1
95°	21.1	33.5	19.8	18.6	21.1	21.1	22.3	21.1	21.1	21.1	21.1
97.5°	34.7	62.0	40.9	28.5	27.3	28.5	28.5	31.0	32.3	33.5	33.5
100°	50.9	78.1	71.9	47.1	38.5	37.2	37.2	37.2	38.5	39.7	40.9
102.5°	67.0	89.3	103.0	73.2	54.6	49.6	47.1	45.9	44.7	45.9	45.9
105°	83.1	100.5	126.5	99.2	78.1	70.7	63.3	54.6	53.3	53.3	53.3
107.5°	98.0	111.6	143.9	129.0	101.7	94.3	85.6	71.9	63.3	62.0	60.8
110°	111.6	122.8	156.3	153.8	127.8	116.6	109.2	94.3	81.9	73.2	69.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	124.0	134.0	165.0	174.9	156.3	142.7	131.5	116.6	103.0	91.8	83.1
115°	136.5	145.1	172.4	192.3	181.1	169.9	157.5	138.9	125.3	114.1	104.2
117.5°	148.9	156.3	179.9	204.7	202.2	194.8	184.8	162.5	146.4	135.2	124.0
120°	160.0	167.5	187.3	213.4	220.8	214.6	208.4	188.6	168.7	156.3	146.4
122.5°	169.9	176.1	194.8	220.8	234.4	233.2	227.0	213.4	193.5	178.6	166.2
125°	179.9	186.1	202.2	225.8	244.4	248.1	245.6	234.4	219.6	202.2	187.3
127.5°	189.8	194.8	209.6	230.7	251.8	259.3	260.5	253.1	241.9	227.0	210.9
130°	198.5	203.4	215.8	234.4	256.8	265.5	270.4	269.2	260.5	250.6	234.4
132.5°	205.9	209.6	222.0	238.2	259.3	269.2	276.6	282.8	276.6	269.2	258.0
135°	213.4	217.1	227.0	241.9	260.5	270.4	280.3	290.3	291.5	285.3	276.6
137.5°	219.6	222.0	232.0	244.4	260.5	270.4	280.3	294.0	301.4	299.0	291.5
140°	225.8	228.2	235.7	248.1	261.7	270.4	279.1	295.2	305.2	308.9	305.2
142.5°	230.7	233.2	239.4	250.6	261.7	269.2	277.9	292.8	306.4	313.8	316.3
145°	235.7	236.9	243.1	251.8	261.7	267.9	275.4	290.3	303.9	315.1	322.5
147.5°	239.4	240.7	244.4	253.1	261.7	266.7	272.9	285.3	299.0	311.4	322.5
150°	243.1	243.1	246.9	253.1	261.7	265.5	270.4	281.6	292.8	305.2	315.1
152.5°	245.6	245.6	249.3	254.3	260.5	264.2	269.2	277.9	287.8	299.0	308.9
155°	248.1	248.1	250.6	254.3	260.5	263.0	266.7	274.1	282.8	291.5	300.2
157.5°	250.6	250.6	251.8	255.5	259.3	261.7	265.5	271.7	277.9	285.3	292.8
160°	251.8	251.8	253.1	255.5	258.0	260.5	263.0	267.9	274.1	279.1	285.3
162.5°	253.1	253.1	254.3	255.5	258.0	259.3	260.5	265.5	269.2	274.1	279.1
165°	254.3	254.3	254.3	255.5	256.8	258.0	259.3	261.7	265.5	269.2	272.9
167.5°	255.5	255.5	255.5	255.5	256.8	256.8	258.0	259.3	261.7	264.2	266.7
170°	256.8	255.5	255.5	256.8	255.5	255.5	256.8	258.0	258.0	260.5	261.7
172.5°	256.8	256.8	255.5	255.5	255.5	255.5	255.5	255.5	255.5	256.8	258.0
175°	256.8	256.8	255.5	255.5	255.5	254.3	254.3	254.3	254.3	254.3	254.3
177.5°	256.8	256.8	255.5	255.5	254.3	254.3	254.3	254.3	254.3	254.3	254.3
180°	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1476.2	1470.0	1467.5	1466.2	1465.0	1463.8	1461.3	1458.8	1456.3	1456.3
5°	1470.0	1463.8	1461.3	1460.0	1458.8	1457.6	1456.3	1456.3	1456.3	1456.3
7.5°	1460.0	1453.8	1451.3	1450.1	1450.1	1448.9	1448.9	1448.9	1447.6	1448.9
10°	1445.1	1438.9	1437.7	1436.5	1435.2	1432.7	1432.7	1432.7	1431.5	1432.7
12.5°	1426.5	1420.3	1419.1	1417.9	1416.6	1415.4	1415.4	1414.1	1414.1	1415.4
15°	1407.9	1399.2	1396.8	1396.8	1395.5	1394.3	1395.5	1394.3	1394.3	1394.3
17.5°	1380.6	1376.9	1373.2	1370.7	1369.5	1368.2	1368.2	1367.0	1367.0	1367.0
20°	1344.7	1344.7	1344.7	1338.5	1337.2	1336.0	1336.0	1336.0	1336.0	1336.0
22.5°	1309.9	1303.7	1308.7	1305.0	1302.5	1300.0	1301.3	1301.3	1301.3	1301.3
25°	1271.5	1266.5	1267.8	1269.0	1266.5	1262.8	1262.8	1262.8	1262.8	1261.6
27.5°	1230.5	1226.8	1225.6	1226.8	1229.3	1226.8	1223.1	1219.4	1220.6	1220.6
30°	1185.9	1184.6	1183.4	1180.9	1183.4	1184.6	1178.4	1177.2	1177.2	1177.2
32.5°	1141.2	1140.0	1136.3	1133.8	1135.0	1137.5	1135.0	1132.5	1132.5	1132.5
35°	1096.6	1091.6	1087.9	1086.7	1086.7	1089.1	1087.9	1084.2	1084.2	1084.2
37.5°	1044.5	1045.7	1039.5	1038.3	1038.3	1038.3	1040.8	1034.6	1035.8	1034.6
40°	993.6	994.9	991.1	987.4	988.7	986.2	989.9	983.7	983.7	983.7
42.5°	942.8	940.3	941.5	934.1	935.3	935.3	936.6	932.8	931.6	930.4
45°	890.7	888.2	886.9	883.2	883.2	882.0	882.0	877.0	877.0	877.0
47.5°	836.1	834.8	832.4	829.9	829.9	828.6	826.2	824.9	823.7	823.7
50°	784.0	780.3	776.5	777.8	776.5	775.3	772.8	771.6	770.3	769.1
52.5°	728.2	728.2	723.2	723.2	723.2	722.0	719.5	717.0	717.0	715.8
55°	673.6	672.3	668.6	667.4	668.6	667.4	664.9	662.4	662.4	661.2
57.5°	619.0	616.5	615.3	615.3	614.0	614.0	610.3	607.8	609.1	607.8
60°	563.2	563.2	561.9	560.7	560.7	559.5	555.7	555.7	555.7	554.5
62.5°	509.8	509.8	507.4	506.1	507.4	506.1	504.9	503.6	502.4	501.1
65°	454.0	455.3	452.8	454.0	454.0	451.5	451.5	450.3	450.3	449.0
67.5°	401.9	401.9	400.7	400.7	401.9	400.7	400.7	399.4	399.4	398.2
70°	348.6	351.1	349.8	349.8	349.8	348.6	348.6	348.6	347.3	348.6
72.5°	295.2	295.2	295.2	295.2	295.2	296.5	296.5	296.5	296.5	295.2
75°	245.6	246.9	245.6	246.9	248.1	248.1	248.1	248.1	249.3	248.1
77.5°	197.2	198.5	198.5	201.0	201.0	201.0	202.2	202.2	202.2	202.2
80°	151.3	152.6	153.8	156.3	156.3	158.8	160.0	160.0	160.0	160.0
82.5°	109.2	112.9	114.1	117.8	119.1	119.1	121.6	122.8	122.8	122.8
85°	75.7	79.4	81.9	84.4	86.8	86.8	89.3	89.3	90.6	90.6
87.5°	47.1	50.9	53.3	57.1	58.3	59.5	60.8	62.0	63.3	63.3
90°	26.0	28.5	31.0	33.5	33.5	34.7	36.0	37.2	38.5	38.5
92.5°	18.6	19.8	22.3	23.6	23.6	24.8	26.0	26.0	27.3	27.3
95°	21.1	22.3	22.3	23.6	23.6	23.6	24.8	24.8	24.8	24.8
97.5°	32.3	32.3	32.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0
100°	42.2	43.4	43.4	43.4	44.7	44.7	44.7	44.7	43.4	43.4
102.5°	47.1	48.4	49.6	50.9	50.9	50.9	52.1	52.1	52.1	52.1
105°	53.3	53.3	54.6	55.8	55.8	55.8	57.1	57.1	57.1	57.1
107.5°	60.8	60.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
110°	69.5	69.5	69.5	68.2	69.5	68.2	68.2	68.2	68.2	68.2



TEST NUMBER: P393849

CATALOG NUMBER: I3-WL-50L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	79.4	78.1	78.1	76.9	76.9	76.9	75.7	75.7	75.7	75.7
115°	95.5	89.3	86.8	84.4	84.4	84.4	83.1	83.1	83.1	83.1
117.5°	115.4	106.7	101.7	96.8	95.5	94.3	91.8	91.8	90.6	90.6
120°	136.5	127.8	120.3	114.1	111.6	110.4	106.7	104.2	101.7	101.7
122.5°	156.3	147.6	140.2	134.0	131.5	129.0	125.3	122.8	120.3	120.3
125°	176.1	167.5	160.0	153.8	150.1	147.6	143.9	141.4	138.9	138.9
127.5°	197.2	186.1	178.6	172.4	168.7	167.5	162.5	160.0	157.5	157.5
130°	220.8	207.2	197.2	189.8	187.3	184.8	181.1	178.6	176.1	176.1
132.5°	244.4	230.7	219.6	209.6	205.9	203.4	198.5	196.0	193.5	193.5
135°	266.7	254.3	243.1	233.2	229.5	225.8	220.8	215.8	213.4	213.4
137.5°	284.1	275.4	265.5	256.8	253.1	249.3	244.4	239.4	235.7	236.9
140°	299.0	291.5	285.3	279.1	275.4	272.9	267.9	264.2	260.5	260.5
142.5°	312.6	306.4	300.2	295.2	294.0	292.8	289.0	285.3	282.8	282.8
145°	325.0	321.3	316.3	310.1	308.9	307.6	303.9	301.4	300.2	300.2
147.5°	328.7	330.0	328.7	325.0	323.8	322.5	320.0	317.6	316.3	316.3
150°	326.2	331.2	333.7	333.7	333.7	333.7	333.7	331.2	330.0	330.0
152.5°	318.8	326.2	331.2	334.9	336.2	337.4	337.4	338.6	337.4	337.4
155°	310.1	317.6	325.0	328.7	331.2	332.4	334.9	336.2	337.4	336.2
157.5°	300.2	306.4	311.4	318.8	321.3	323.8	326.2	328.7	330.0	328.7
160°	291.5	296.5	300.2	305.2	306.4	308.9	311.4	312.6	315.1	313.8
162.5°	282.8	286.5	290.3	292.8	295.2	296.5	299.0	300.2	301.4	300.2
165°	276.6	279.1	280.3	282.8	284.1	285.3	286.5	287.8	287.8	287.8
167.5°	269.2	271.7	272.9	274.1	275.4	276.6	276.6	277.9	277.9	277.9
170°	263.0	264.2	265.5	266.7	266.7	267.9	267.9	267.9	269.2	267.9
172.5°	258.0	258.0	258.0	259.3	259.3	259.3	259.3	259.3	259.3	258.0
175°	255.5	255.5	254.3	254.3	254.3	254.3	254.3	253.1	251.8	250.6
177.5°	254.3	253.1	253.1	251.8	251.8	251.8	250.6	249.3	248.1	246.9
180°	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1	253.1

(END OF REPORT)