

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: P393846

Luminaire Tested: **I3-WL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393846
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-40L840-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3990.3 lumens
Efficiency: N/A
Efficacy: 115.0 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

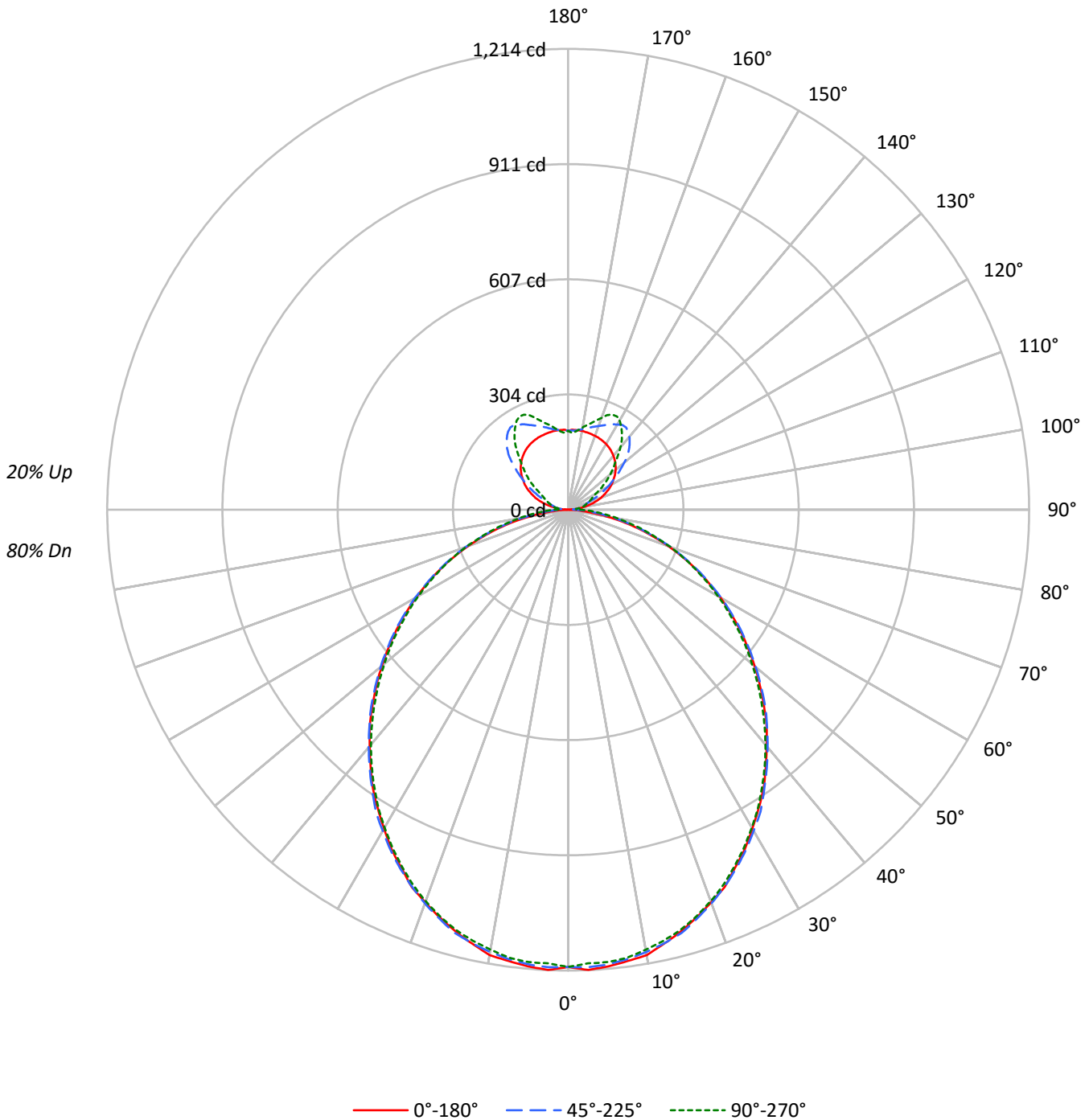
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6620	6620	6620
5°	6638	6483	6414
10°	6599	6308	6204
15°	6467	6133	5983
20°	6339	5886	5725
25°	6187	5636	5439
30°	6009	5377	5147
35°	5843	5090	4845
40°	5634	4794	4531
45°	5432	4506	4200
50°	5217	4189	3867
55°	4989	3865	3526
60°	4736	3506	3174
65°	4445	3115	2798
70°	4032	2659	2402
75°	3473	2108	1929
80°	2649	1517	1440
85°	1383	907	975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	2.9
10°-20°	322.8	8.1
20°-30°	477.9	12.0
30°-40°	558.6	14.0
40°-50°	561.1	14.1
50°-60°	493.1	12.4
60°-70°	369.5	9.3
70°-80°	210.1	5.3
80°-90°	66.3	1.7
90°-100°	23.9	0.6
100°-110°	58.3	1.5
110°-120°	96.8	2.4
120°-130°	135.8	3.4
130°-140°	156.6	3.9
140°-150°	149.5	3.7
150°-160°	112.4	2.8
160°-170°	63.6	1.6
170°-180°	20.1	0.5
0°-30°	914.5	22.9
0°-40°	1473.1	36.9
0°-60°	2527.3	63.3
0°-90°	3173.2	79.5
90°-120°	179.0	4.5
90°-150°	620.9	15.6
90°-180°	817.0	20.5
0°-180°	3990.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1208	1195	1202	1198	1196	115
15°	1149	1139	1154	1146	1145	324
25°	1040	1037	1044	1040	1036	480
35°	897	890	900	893	891	560
45°	729	728	734	726	720	562
55°	552	554	556	549	543	494
65°	373	374	376	373	369	368
75°	190	193	198	204	204	201
85°	33	43	58	71	74	42
90°	1	6	18	28	32	3
95°	17	17	17	19	20	19
105°	68	58	44	46	47	71
115°	112	140	86	69	68	111
125°	148	204	154	123	114	132
135°	175	222	227	188	175	135
145°	194	220	265	254	247	121
155°	204	216	247	272	276	94
165°	209	212	224	233	236	59
175°	211	209	209	209	206	20
180°	208	208	208	208	208	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1213.6	1211.6	1206.5	1201.4	1200.4	1199.4	1199.4	1198.3	1198.3	1200.4	1206.5
5°	1207.5	1206.5	1201.4	1196.3	1195.3	1195.3	1194.3	1194.3	1194.3	1196.3	1202.4
7.5°	1199.4	1197.3	1192.2	1187.1	1186.1	1186.1	1186.1	1185.1	1186.1	1187.1	1194.3
10°	1191.2	1190.2	1185.1	1179.0	1176.9	1176.9	1175.9	1173.9	1173.9	1175.9	1183.1
12.5°	1170.8	1169.8	1164.7	1160.6	1160.6	1161.7	1161.7	1162.7	1162.7	1164.7	1169.8
15°	1149.4	1148.4	1143.3	1139.2	1139.2	1139.2	1138.2	1138.2	1139.2	1145.4	1154.5
17.5°	1126.0	1125.0	1120.9	1116.8	1116.8	1116.8	1115.8	1115.8	1116.8	1119.9	1129.1
20°	1100.5	1099.5	1095.4	1091.3	1091.3	1091.3	1090.3	1091.3	1091.3	1095.4	1103.6
22.5°	1076.1	1074.0	1068.9	1064.9	1062.8	1062.8	1062.8	1061.8	1063.8	1066.9	1075.0
25°	1040.4	1039.4	1037.3	1034.3	1036.3	1037.3	1035.3	1033.3	1033.3	1037.3	1044.5
27.5°	1007.8	1005.8	1002.7	999.6	997.6	998.6	999.6	1001.7	1004.7	1005.8	1011.9
30°	970.1	969.1	966.0	961.9	963.0	964.0	964.0	964.0	966.0	975.2	977.2
32.5°	933.4	932.4	929.3	925.3	926.3	927.3	926.3	927.3	929.3	933.4	942.6
35°	896.7	894.7	891.6	890.6	889.6	889.6	889.6	890.6	891.6	894.7	899.8
37.5°	854.9	852.9	850.9	847.8	849.8	851.9	852.9	851.9	852.9	857.0	859.0
40°	813.2	812.1	810.1	808.1	809.1	810.1	809.1	812.1	814.2	816.2	817.2
42.5°	773.4	771.4	769.3	768.3	768.3	769.3	769.3	771.4	771.4	776.5	775.5
45°	728.6	727.6	726.5	726.5	727.6	727.6	727.6	728.6	729.6	732.7	733.7
47.5°	684.8	683.7	683.7	683.7	683.7	684.8	685.8	688.8	686.8	687.8	688.8
50°	641.0	639.9	639.9	639.9	642.0	642.0	644.0	645.0	646.0	644.0	645.0
52.5°	596.1	595.1	597.1	597.1	599.2	599.2	602.2	599.2	601.2	600.2	600.2
55°	552.3	551.3	553.3	552.3	554.3	554.3	556.4	557.4	556.4	556.4	556.4
57.5°	507.5	506.4	507.5	508.5	509.5	509.5	512.6	512.6	509.5	511.5	510.5
60°	462.6	461.6	462.6	463.6	464.7	464.7	465.7	463.6	465.7	466.7	465.7
62.5°	417.8	416.8	418.8	417.8	418.8	419.8	419.8	422.9	421.9	421.9	420.8
65°	373.0	371.9	371.9	371.9	373.0	374.0	375.0	376.0	376.0	377.0	376.0
67.5°	327.1	326.1	327.1	326.1	327.1	328.1	330.2	331.2	331.2	332.2	331.2
70°	280.2	281.2	280.2	281.2	282.3	283.3	284.3	286.3	286.3	286.3	286.3
72.5°	234.4	233.4	233.4	232.3	234.4	235.4	236.4	239.5	239.5	240.5	240.5
75°	189.5	187.5	188.5	187.5	191.6	192.6	192.6	195.6	196.7	198.7	197.7
77.5°	145.7	145.7	143.7	146.7	147.8	149.8	151.8	153.9	154.9	157.9	157.9
80°	103.9	103.9	102.9	105.0	109.0	110.1	113.1	114.1	117.2	119.2	120.2
82.5°	66.2	66.2	66.2	69.3	72.3	73.4	76.4	79.5	81.5	84.6	85.6
85°	32.6	34.6	34.6	38.7	40.8	42.8	43.8	47.9	50.9	55.0	58.1
87.5°	10.2	11.2	12.2	14.3	18.3	19.4	21.4	25.5	28.5	32.6	35.7
90°	1.0	1.0	2.0	3.1	5.1	6.1	8.2	10.2	13.2	16.3	18.3
92.5°	7.1	7.1	8.2	8.2	8.2	8.2	8.2	9.2	10.2	12.2	13.2
95°	17.3	27.5	16.3	15.3	17.3	17.3	18.3	17.3	17.3	17.3	17.3
97.5°	28.5	50.9	33.6	23.4	22.4	23.4	23.4	25.5	26.5	27.5	27.5
100°	41.8	64.2	59.1	38.7	31.6	30.6	30.6	30.6	31.6	32.6	33.6
102.5°	55.0	73.4	84.6	60.1	44.8	40.8	38.7	37.7	36.7	37.7	37.7
105°	68.3	82.5	103.9	81.5	64.2	58.1	52.0	44.8	43.8	43.8	43.8
107.5°	80.5	91.7	118.2	106.0	83.6	77.4	70.3	59.1	52.0	50.9	49.9
110°	91.7	100.9	128.4	126.4	105.0	95.8	89.7	77.4	67.3	60.1	57.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.9	110.1	135.5	143.7	128.4	117.2	108.0	95.8	84.6	75.4	68.3
115°	112.1	119.2	141.6	157.9	148.8	139.6	129.4	114.1	102.9	93.7	85.6
117.5°	122.3	128.4	147.8	168.1	166.1	160.0	151.8	133.5	120.2	111.1	101.9
120°	131.5	137.6	153.9	175.3	181.4	176.3	171.2	154.9	138.6	128.4	120.2
122.5°	139.6	144.7	160.0	181.4	192.6	191.6	186.5	175.3	159.0	146.7	136.5
125°	147.8	152.8	166.1	185.5	200.7	203.8	201.8	192.6	180.4	166.1	153.9
127.5°	155.9	160.0	172.2	189.5	206.9	213.0	214.0	207.9	198.7	186.5	173.2
130°	163.0	167.1	177.3	192.6	210.9	218.1	222.1	221.1	214.0	205.8	192.6
132.5°	169.2	172.2	182.4	195.6	213.0	221.1	227.2	232.3	227.2	221.1	212.0
135°	175.3	178.3	186.5	198.7	214.0	222.1	230.3	238.4	239.5	234.4	227.2
137.5°	180.4	182.4	190.6	200.7	214.0	222.1	230.3	241.5	247.6	245.6	239.5
140°	185.5	187.5	193.6	203.8	215.0	222.1	229.3	242.5	250.7	253.7	250.7
142.5°	189.5	191.6	196.7	205.8	215.0	221.1	228.3	240.5	251.7	257.8	259.8
145°	193.6	194.6	199.7	206.9	215.0	220.1	226.2	238.4	249.7	258.8	264.9
147.5°	196.7	197.7	200.7	207.9	215.0	219.1	224.2	234.4	245.6	255.8	264.9
150°	199.7	199.7	202.8	207.9	215.0	218.1	222.1	231.3	240.5	250.7	258.8
152.5°	201.8	201.8	204.8	208.9	214.0	217.0	221.1	228.3	236.4	245.6	253.7
155°	203.8	203.8	205.8	208.9	214.0	216.0	219.1	225.2	232.3	239.5	246.6
157.5°	205.8	205.8	206.9	209.9	213.0	215.0	218.1	223.2	228.3	234.4	240.5
160°	206.9	206.9	207.9	209.9	212.0	214.0	216.0	220.1	225.2	229.3	234.4
162.5°	207.9	207.9	208.9	209.9	212.0	213.0	214.0	218.1	221.1	225.2	229.3
165°	208.9	208.9	208.9	209.9	210.9	212.0	213.0	215.0	218.1	221.1	224.2
167.5°	209.9	209.9	209.9	209.9	210.9	210.9	212.0	213.0	215.0	217.0	219.1
170°	210.9	209.9	209.9	210.9	209.9	209.9	210.9	212.0	212.0	214.0	215.0
172.5°	210.9	210.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	210.9	212.0
175°	210.9	210.9	209.9	209.9	209.9	208.9	208.9	208.9	208.9	208.9	208.9
177.5°	210.9	210.9	209.9	209.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9
180°	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1212.6	1207.5	1205.5	1204.5	1203.4	1202.4	1200.4	1198.3	1196.3	1196.3
5°	1207.5	1202.4	1200.4	1199.4	1198.3	1197.3	1196.3	1196.3	1196.3	1196.3
7.5°	1199.4	1194.3	1192.2	1191.2	1191.2	1190.2	1190.2	1190.2	1189.2	1190.2
10°	1187.1	1182.0	1181.0	1180.0	1179.0	1176.9	1176.9	1176.9	1175.9	1176.9
12.5°	1171.8	1166.8	1165.7	1164.7	1163.7	1162.7	1162.7	1161.7	1161.7	1162.7
15°	1156.6	1149.4	1147.4	1147.4	1146.4	1145.4	1146.4	1145.4	1145.4	1145.4
17.5°	1134.1	1131.1	1128.0	1126.0	1125.0	1124.0	1124.0	1122.9	1122.9	1122.9
20°	1104.6	1104.6	1104.6	1099.5	1098.5	1097.5	1097.5	1097.5	1097.5	1097.5
22.5°	1076.1	1071.0	1075.0	1072.0	1069.9	1067.9	1068.9	1068.9	1068.9	1068.9
25°	1044.5	1040.4	1041.4	1042.4	1040.4	1037.3	1037.3	1037.3	1037.3	1036.3
27.5°	1010.8	1007.8	1006.8	1007.8	1009.8	1007.8	1004.7	1001.7	1002.7	1002.7
30°	974.2	973.1	972.1	970.1	972.1	973.1	968.0	967.0	967.0	967.0
32.5°	937.5	936.5	933.4	931.4	932.4	934.4	932.4	930.3	930.3	930.3
35°	900.8	896.7	893.7	892.6	892.6	894.7	893.7	890.6	890.6	890.6
37.5°	858.0	859.0	853.9	852.9	852.9	852.9	854.9	849.8	850.9	849.8
40°	816.2	817.2	814.2	811.1	812.1	810.1	813.2	808.1	808.1	808.1
42.5°	774.4	772.4	773.4	767.3	768.3	768.3	769.3	766.3	765.3	764.2
45°	731.6	729.6	728.6	725.5	725.5	724.5	724.5	720.4	720.4	720.4
47.5°	686.8	685.8	683.7	681.7	681.7	680.7	678.7	677.6	676.6	676.6
50°	644.0	641.0	637.9	638.9	637.9	636.9	634.8	633.8	632.8	631.8
52.5°	598.2	598.2	594.1	594.1	594.1	593.1	591.0	589.0	589.0	588.0
55°	553.3	552.3	549.2	548.2	549.2	548.2	546.2	544.1	544.1	543.1
57.5°	508.5	506.4	505.4	505.4	504.4	504.4	501.3	499.3	500.3	499.3
60°	462.6	462.6	461.6	460.6	460.6	459.6	456.5	456.5	456.5	455.5
62.5°	418.8	418.8	416.8	415.8	416.8	415.8	414.7	413.7	412.7	411.7
65°	373.0	374.0	371.9	373.0	373.0	370.9	370.9	369.9	369.9	368.9
67.5°	330.2	330.2	329.1	329.1	330.2	329.1	329.1	328.1	328.1	327.1
70°	286.3	288.4	287.4	287.4	287.4	286.3	286.3	286.3	285.3	286.3
72.5°	242.5	242.5	242.5	242.5	242.5	243.5	243.5	243.5	243.5	242.5
75°	201.8	202.8	201.8	202.8	203.8	203.8	203.8	203.8	204.8	203.8
77.5°	162.0	163.0	163.0	165.1	165.1	165.1	166.1	166.1	166.1	166.1
80°	124.3	125.3	126.4	128.4	128.4	130.4	131.5	131.5	131.5	131.5
82.5°	89.7	92.7	93.7	96.8	97.8	97.8	99.9	100.9	100.9	100.9
85°	62.2	65.2	67.3	69.3	71.3	71.3	73.4	73.4	74.4	74.4
87.5°	38.7	41.8	43.8	46.9	47.9	48.9	49.9	50.9	52.0	52.0
90°	21.4	23.4	25.5	27.5	27.5	28.5	29.6	30.6	31.6	31.6
92.5°	15.3	16.3	18.3	19.4	19.4	20.4	21.4	21.4	22.4	22.4
95°	17.3	18.3	18.3	19.4	19.4	19.4	20.4	20.4	20.4	20.4
97.5°	26.5	26.5	26.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
100°	34.6	35.7	35.7	35.7	36.7	36.7	36.7	36.7	35.7	35.7
102.5°	38.7	39.7	40.8	41.8	41.8	41.8	42.8	42.8	42.8	42.8
105°	43.8	43.8	44.8	45.9	45.9	45.9	46.9	46.9	46.9	46.9
107.5°	49.9	49.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
110°	57.1	57.1	57.1	56.0	57.1	56.0	56.0	56.0	56.0	56.0



TEST NUMBER: P393846

CATALOG NUMBER: I3-WL-40L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	65.2	64.2	64.2	63.2	63.2	63.2	62.2	62.2	62.2	62.2
115°	78.5	73.4	71.3	69.3	69.3	69.3	68.3	68.3	68.3	68.3
117.5°	94.8	87.6	83.6	79.5	78.5	77.4	75.4	75.4	74.4	74.4
120°	112.1	105.0	98.8	93.7	91.7	90.7	87.6	85.6	83.6	83.6
122.5°	128.4	121.3	115.1	110.1	108.0	106.0	102.9	100.9	98.8	98.8
125°	144.7	137.6	131.5	126.4	123.3	121.3	118.2	116.2	114.1	114.1
127.5°	162.0	152.8	146.7	141.6	138.6	137.6	133.5	131.5	129.4	129.4
130°	181.4	170.2	162.0	155.9	153.9	151.8	148.8	146.7	144.7	144.7
132.5°	200.7	189.5	180.4	172.2	169.2	167.1	163.0	161.0	159.0	159.0
135°	219.1	208.9	199.7	191.6	188.5	185.5	181.4	177.3	175.3	175.3
137.5°	233.4	226.2	218.1	210.9	207.9	204.8	200.7	196.7	193.6	194.6
140°	245.6	239.5	234.4	229.3	226.2	224.2	220.1	217.0	214.0	214.0
142.5°	256.8	251.7	246.6	242.5	241.5	240.5	237.4	234.4	232.3	232.3
145°	267.0	263.9	259.8	254.7	253.7	252.7	249.7	247.6	246.6	246.6
147.5°	270.0	271.1	270.0	267.0	266.0	264.9	262.9	260.9	259.8	259.8
150°	268.0	272.1	274.1	274.1	274.1	274.1	274.1	272.1	271.1	271.1
152.5°	261.9	268.0	272.1	275.1	276.1	277.2	277.2	278.2	277.2	277.2
155°	254.7	260.9	267.0	270.0	272.1	273.1	275.1	276.1	277.2	276.1
157.5°	246.6	251.7	255.8	261.9	263.9	266.0	268.0	270.0	271.1	270.0
160°	239.5	243.5	246.6	250.7	251.7	253.7	255.8	256.8	258.8	257.8
162.5°	232.3	235.4	238.4	240.5	242.5	243.5	245.6	246.6	247.6	246.6
165°	227.2	229.3	230.3	232.3	233.4	234.4	235.4	236.4	236.4	236.4
167.5°	221.1	223.2	224.2	225.2	226.2	227.2	227.2	228.3	228.3	228.3
170°	216.0	217.0	218.1	219.1	219.1	220.1	220.1	220.1	221.1	220.1
172.5°	212.0	212.0	212.0	213.0	213.0	213.0	213.0	213.0	213.0	212.0
175°	209.9	209.9	208.9	208.9	208.9	208.9	208.9	207.9	206.9	205.8
177.5°	208.9	207.9	207.9	206.9	206.9	206.9	205.8	204.8	203.8	202.8
180°	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9

(END OF REPORT)