

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: P393844

Luminaire Tested: **I3-WL-40L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393844  
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-40L830-1D-UNV-STD-W-4  
Description: CORELITE I3, DOWNLIGHT TRAY  
4000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3763.2 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

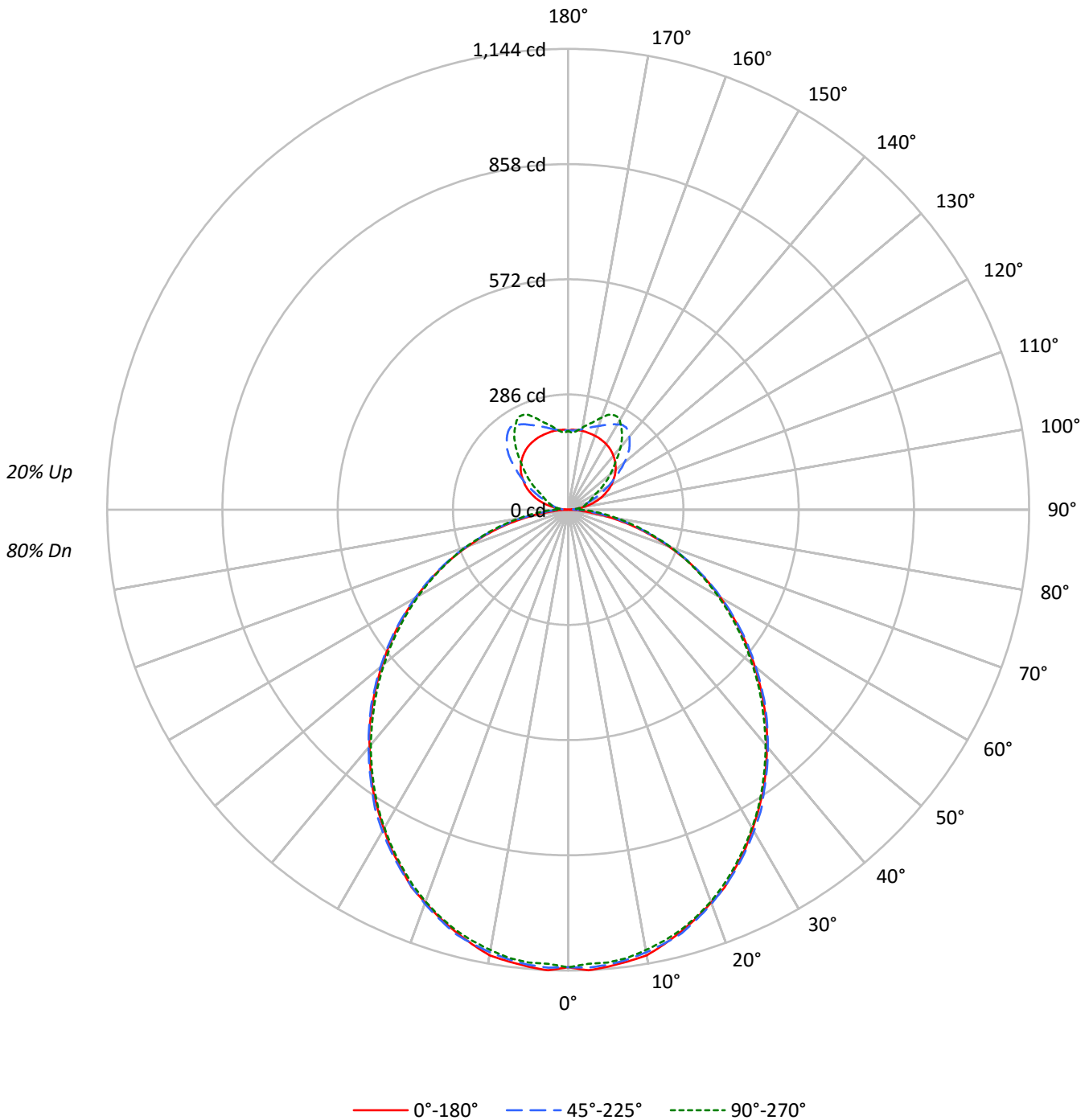
Input Watts (W): 34.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6243	6243	6243
5°	6260	6115	6048
10°	6223	5948	5851
15°	6099	5784	5643
20°	5978	5551	5399
25°	5835	5315	5130
30°	5667	5071	4854
35°	5510	4801	4569
40°	5313	4521	4273
45°	5123	4249	3961
50°	4920	3950	3646
55°	4706	3645	3325
60°	4467	3306	2994
65°	4192	2937	2639
70°	3803	2508	2265
75°	3275	1987	1819
80°	2499	1432	1358
85°	1307	856	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	2.9
10°-20°	304.4	8.1
20°-30°	450.7	12.0
30°-40°	526.8	14.0
40°-50°	529.2	14.1
50°-60°	465.1	12.4
60°-70°	348.5	9.3
70°-80°	198.2	5.3
80°-90°	62.6	1.7
90°-100°	22.5	0.6
100°-110°	54.9	1.5
110°-120°	91.3	2.4
120°-130°	128.1	3.4
130°-140°	147.6	3.9
140°-150°	141.0	3.7
150°-160°	106.0	2.8
160°-170°	60.0	1.6
170°-180°	19.0	0.5
0°-30°	862.5	22.9
0°-40°	1389.2	36.9
0°-60°	2383.5	63.3
0°-90°	2992.7	79.5
90°-120°	168.8	4.5
90°-150°	585.5	15.6
90°-180°	771.0	20.5
0°-180°	3763.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1139	1127	1134	1130	1128	108
15°	1084	1074	1089	1081	1080	306
25°	981	978	985	981	977	452
35°	846	839	849	842	840	528
45°	687	686	692	684	679	530
55°	521	523	525	518	512	466
65°	352	353	355	352	348	347
75°	179	182	186	192	192	189
85°	31	40	55	67	70	40
90°	1	6	17	26	30	3
95°	16	16	16	18	19	18
105°	64	55	41	43	44	67
115°	106	132	81	65	64	105
125°	139	192	145	116	108	125
135°	165	210	214	178	165	127
145°	183	208	250	239	233	114
155°	192	204	233	257	260	89
165°	197	200	211	220	223	56
175°	199	197	197	197	194	19
180°	196	196	196	196	196	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9
2.5°	1144.5	1142.6	1137.8	1133.0	1132.1	1131.1	1131.1	1130.1	1130.1	1132.1	1137.8
5°	1138.8	1137.8	1133.0	1128.2	1127.3	1127.3	1126.3	1126.3	1126.3	1128.2	1134.0
7.5°	1131.1	1129.2	1124.4	1119.6	1118.6	1118.6	1118.6	1117.6	1118.6	1119.6	1126.3
10°	1123.4	1122.4	1117.6	1111.9	1110.0	1110.0	1109.0	1107.1	1107.1	1109.0	1115.7
12.5°	1104.2	1103.2	1098.4	1094.6	1094.6	1095.5	1095.5	1096.5	1096.5	1098.4	1103.2
15°	1084.0	1083.0	1078.2	1074.4	1074.4	1074.4	1073.4	1073.4	1074.4	1080.2	1088.8
17.5°	1061.9	1060.9	1057.1	1053.3	1053.3	1053.3	1052.3	1052.3	1053.3	1056.1	1064.8
20°	1037.9	1036.9	1033.1	1029.2	1029.2	1029.2	1028.3	1029.2	1029.2	1033.1	1040.8
22.5°	1014.8	1012.9	1008.1	1004.2	1002.3	1002.3	1002.3	1001.4	1003.3	1006.2	1013.9
25°	981.2	980.2	978.3	975.4	977.3	978.3	976.4	974.5	974.5	978.3	985.0
27.5°	950.4	948.5	945.6	942.7	940.8	941.8	942.7	944.7	947.5	948.5	954.3
30°	914.9	913.9	911.0	907.2	908.1	909.1	909.1	909.1	911.0	919.7	921.6
32.5°	880.3	879.3	876.4	872.6	873.5	874.5	873.5	874.5	876.4	880.3	888.9
35°	845.7	843.8	840.9	839.9	839.0	839.0	839.0	839.9	840.9	843.8	848.6
37.5°	806.3	804.4	802.4	799.6	801.5	803.4	804.4	803.4	804.4	808.2	810.1
40°	766.9	765.9	764.0	762.1	763.0	764.0	763.0	765.9	767.8	769.8	770.7
42.5°	729.4	727.5	725.6	724.6	724.6	725.6	725.6	727.5	727.5	732.3	731.3
45°	687.1	686.2	685.2	685.2	686.2	686.2	686.2	687.1	688.1	691.0	691.9
47.5°	645.8	644.8	644.8	644.8	644.8	645.8	646.8	649.6	647.7	648.7	649.6
50°	604.5	603.5	603.5	603.5	605.4	605.4	607.4	608.3	609.3	607.4	608.3
52.5°	562.2	561.2	563.1	563.1	565.1	565.1	568.0	565.1	567.0	566.0	566.0
55°	520.9	519.9	521.8	520.9	522.8	522.8	524.7	525.7	524.7	524.7	524.7
57.5°	478.6	477.6	478.6	479.5	480.5	480.5	483.4	483.4	480.5	482.4	481.5
60°	436.3	435.3	436.3	437.3	438.2	438.2	439.2	437.3	439.2	440.1	439.2
62.5°	394.0	393.0	395.0	394.0	395.0	395.9	395.9	398.8	397.9	397.9	396.9
65°	351.7	350.8	350.8	350.8	351.7	352.7	353.6	354.6	354.6	355.6	354.6
67.5°	308.5	307.5	308.5	307.5	308.5	309.4	311.4	312.3	312.3	313.3	312.3
70°	264.3	265.2	264.3	265.2	266.2	267.2	268.1	270.0	270.0	270.0	270.0
72.5°	221.0	220.1	220.1	219.1	221.0	222.0	223.0	225.8	225.8	226.8	226.8
75°	178.7	176.8	177.8	176.8	180.7	181.6	181.6	184.5	185.5	187.4	186.4
77.5°	137.4	137.4	135.5	138.4	139.3	141.3	143.2	145.1	146.1	149.0	149.0
80°	98.0	98.0	97.1	99.0	102.8	103.8	106.7	107.6	110.5	112.4	113.4
82.5°	62.5	62.5	62.5	65.3	68.2	69.2	72.1	75.0	76.9	79.8	80.7
85°	30.8	32.7	32.7	36.5	38.4	40.4	41.3	45.2	48.0	51.9	54.8
87.5°	9.6	10.6	11.5	13.5	17.3	18.3	20.2	24.0	26.9	30.8	33.6
90°	1.0	1.0	1.9	2.9	4.8	5.8	7.7	9.6	12.5	15.4	17.3
92.5°	6.7	6.7	7.7	7.7	7.7	7.7	7.7	8.6	9.6	11.5	12.5
95°	16.3	25.9	15.4	14.4	16.3	16.3	17.3	16.3	16.3	16.3	16.3
97.5°	26.9	48.0	31.7	22.1	21.1	22.1	22.1	24.0	25.0	25.9	25.9
100°	39.4	60.5	55.7	36.5	29.8	28.8	28.8	28.8	29.8	30.8	31.7
102.5°	51.9	69.2	79.8	56.7	42.3	38.4	36.5	35.6	34.6	35.6	35.6
105°	64.4	77.8	98.0	76.9	60.5	54.8	49.0	42.3	41.3	41.3	41.3
107.5°	75.9	86.5	111.5	99.9	78.8	73.0	66.3	55.7	49.0	48.0	47.1
110°	86.5	95.1	121.1	119.2	99.0	90.3	84.6	73.0	63.4	56.7	53.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	96.1	103.8	127.8	135.5	121.1	110.5	101.9	90.3	79.8	71.1	64.4
115°	105.7	112.4	133.6	149.0	140.3	131.7	122.0	107.6	97.1	88.4	80.7
117.5°	115.3	121.1	139.3	158.6	156.6	150.9	143.2	125.9	113.4	104.7	96.1
120°	124.0	129.7	145.1	165.3	171.1	166.3	161.4	146.1	130.7	121.1	113.4
122.5°	131.7	136.5	150.9	171.1	181.6	180.7	175.9	165.3	149.9	138.4	128.8
125°	139.3	144.1	156.6	174.9	189.3	192.2	190.3	181.6	170.1	156.6	145.1
127.5°	147.0	150.9	162.4	178.7	195.1	200.8	201.8	196.0	187.4	175.9	163.4
130°	153.8	157.6	167.2	181.6	198.9	205.7	209.5	208.5	201.8	194.1	181.6
132.5°	159.5	162.4	172.0	184.5	200.8	208.5	214.3	219.1	214.3	208.5	199.9
135°	165.3	168.2	175.9	187.4	201.8	209.5	217.2	224.9	225.8	221.0	214.3
137.5°	170.1	172.0	179.7	189.3	201.8	209.5	217.2	227.8	233.5	231.6	225.8
140°	174.9	176.8	182.6	192.2	202.8	209.5	216.2	228.7	236.4	239.3	236.4
142.5°	178.7	180.7	185.5	194.1	202.8	208.5	215.3	226.8	237.4	243.1	245.1
145°	182.6	183.6	188.4	195.1	202.8	207.6	213.3	224.9	235.4	244.1	249.9
147.5°	185.5	186.4	189.3	196.0	202.8	206.6	211.4	221.0	231.6	241.2	249.9
150°	188.4	188.4	191.2	196.0	202.8	205.7	209.5	218.1	226.8	236.4	244.1
152.5°	190.3	190.3	193.2	197.0	201.8	204.7	208.5	215.3	223.0	231.6	239.3
155°	192.2	192.2	194.1	197.0	201.8	203.7	206.6	212.4	219.1	225.8	232.6
157.5°	194.1	194.1	195.1	198.0	200.8	202.8	205.7	210.5	215.3	221.0	226.8
160°	195.1	195.1	196.0	198.0	199.9	201.8	203.7	207.6	212.4	216.2	221.0
162.5°	196.0	196.0	197.0	198.0	199.9	200.8	201.8	205.7	208.5	212.4	216.2
165°	197.0	197.0	197.0	198.0	198.9	199.9	200.8	202.8	205.7	208.5	211.4
167.5°	198.0	198.0	198.0	198.0	198.9	198.9	199.9	200.8	202.8	204.7	206.6
170°	198.9	198.0	198.0	198.9	198.0	198.0	198.9	199.9	199.9	201.8	202.8
172.5°	198.9	198.9	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.9	199.9
175°	198.9	198.9	198.0	198.0	198.0	197.0	197.0	197.0	197.0	197.0	197.0
177.5°	198.9	198.9	198.0	198.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0
180°	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9	1135.9
2.5°	1143.6	1138.8	1136.9	1135.9	1134.9	1134.0	1132.1	1130.1	1128.2	1128.2
5°	1138.8	1134.0	1132.1	1131.1	1130.1	1129.2	1128.2	1128.2	1128.2	1128.2
7.5°	1131.1	1126.3	1124.4	1123.4	1123.4	1122.4	1122.4	1122.4	1121.5	1122.4
10°	1119.6	1114.8	1113.8	1112.8	1111.9	1110.0	1110.0	1110.0	1109.0	1110.0
12.5°	1105.1	1100.3	1099.4	1098.4	1097.5	1096.5	1096.5	1095.5	1095.5	1096.5
15°	1090.7	1084.0	1082.1	1082.1	1081.1	1080.2	1081.1	1080.2	1080.2	1080.2
17.5°	1069.6	1066.7	1063.8	1061.9	1060.9	1060.0	1060.0	1059.0	1059.0	1059.0
20°	1041.7	1041.7	1041.7	1036.9	1036.0	1035.0	1035.0	1035.0	1035.0	1035.0
22.5°	1014.8	1010.0	1013.9	1011.0	1009.0	1007.1	1008.1	1008.1	1008.1	1008.1
25°	985.0	981.2	982.1	983.1	981.2	978.3	978.3	978.3	978.3	977.3
27.5°	953.3	950.4	949.5	950.4	952.3	950.4	947.5	944.7	945.6	945.6
30°	918.7	917.8	916.8	914.9	916.8	917.8	912.9	912.0	912.0	912.0
32.5°	884.1	883.2	880.3	878.4	879.3	881.2	879.3	877.4	877.4	877.4
35°	849.5	845.7	842.8	841.8	841.8	843.8	842.8	839.9	839.9	839.9
37.5°	809.2	810.1	805.3	804.4	804.4	804.4	806.3	801.5	802.4	801.5
40°	769.8	770.7	767.8	765.0	765.9	764.0	766.9	762.1	762.1	762.1
42.5°	730.4	728.4	729.4	723.6	724.6	724.6	725.6	722.7	721.7	720.7
45°	690.0	688.1	687.1	684.2	684.2	683.3	683.3	679.4	679.4	679.4
47.5°	647.7	646.8	644.8	642.9	642.9	641.9	640.0	639.1	638.1	638.1
50°	607.4	604.5	601.6	602.5	601.6	600.6	598.7	597.7	596.8	595.8
52.5°	564.1	564.1	560.3	560.3	560.3	559.3	557.4	555.5	555.5	554.5
55°	521.8	520.9	518.0	517.0	518.0	517.0	515.1	513.2	513.2	512.2
57.5°	479.5	477.6	476.7	476.7	475.7	475.7	472.8	470.9	471.9	470.9
60°	436.3	436.3	435.3	434.4	434.4	433.4	430.5	430.5	430.5	429.6
62.5°	395.0	395.0	393.0	392.1	393.0	392.1	391.1	390.2	389.2	388.2
65°	351.7	352.7	350.8	351.7	351.7	349.8	349.8	348.8	348.8	347.9
67.5°	311.4	311.4	310.4	310.4	311.4	310.4	310.4	309.4	309.4	308.5
70°	270.0	272.0	271.0	271.0	271.0	270.0	270.0	270.0	269.1	270.0
72.5°	228.7	228.7	228.7	228.7	228.7	229.7	229.7	229.7	229.7	228.7
75°	190.3	191.2	190.3	191.2	192.2	192.2	192.2	192.2	193.2	192.2
77.5°	152.8	153.8	153.8	155.7	155.7	155.7	156.6	156.6	156.6	156.6
80°	117.2	118.2	119.2	121.1	121.1	123.0	124.0	124.0	124.0	124.0
82.5°	84.6	87.5	88.4	91.3	92.3	92.3	94.2	95.1	95.1	95.1
85°	58.6	61.5	63.4	65.3	67.3	67.3	69.2	69.2	70.2	70.2
87.5°	36.5	39.4	41.3	44.2	45.2	46.1	47.1	48.0	49.0	49.0
90°	20.2	22.1	24.0	25.9	25.9	26.9	27.9	28.8	29.8	29.8
92.5°	14.4	15.4	17.3	18.3	18.3	19.2	20.2	20.2	21.1	21.1
95°	16.3	17.3	17.3	18.3	18.3	18.3	19.2	19.2	19.2	19.2
97.5°	25.0	25.0	25.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
100°	32.7	33.6	33.6	33.6	34.6	34.6	34.6	34.6	33.6	33.6
102.5°	36.5	37.5	38.4	39.4	39.4	39.4	40.4	40.4	40.4	40.4
105°	41.3	41.3	42.3	43.2	43.2	43.2	44.2	44.2	44.2	44.2
107.5°	47.1	47.1	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
110°	53.8	53.8	53.8	52.9	53.8	52.9	52.9	52.9	52.9	52.9





TEST NUMBER: P393844

CATALOG NUMBER: I3-WL-40L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	61.5	60.5	60.5	59.6	59.6	59.6	58.6	58.6	58.6	58.6
115°	74.0	69.2	67.3	65.3	65.3	65.3	64.4	64.4	64.4	64.4
117.5°	89.4	82.6	78.8	75.0	74.0	73.0	71.1	71.1	70.2	70.2
120°	105.7	99.0	93.2	88.4	86.5	85.5	82.6	80.7	78.8	78.8
122.5°	121.1	114.4	108.6	103.8	101.9	99.9	97.1	95.1	93.2	93.2
125°	136.5	129.7	124.0	119.2	116.3	114.4	111.5	109.6	107.6	107.6
127.5°	152.8	144.1	138.4	133.6	130.7	129.7	125.9	124.0	122.0	122.0
130°	171.1	160.5	152.8	147.0	145.1	143.2	140.3	138.4	136.5	136.5
132.5°	189.3	178.7	170.1	162.4	159.5	157.6	153.8	151.8	149.9	149.9
135°	206.6	197.0	188.4	180.7	177.8	174.9	171.1	167.2	165.3	165.3
137.5°	220.1	213.3	205.7	198.9	196.0	193.2	189.3	185.5	182.6	183.6
140°	231.6	225.8	221.0	216.2	213.3	211.4	207.6	204.7	201.8	201.8
142.5°	242.2	237.4	232.6	228.7	227.8	226.8	223.9	221.0	219.1	219.1
145°	251.8	248.9	245.1	240.2	239.3	238.3	235.4	233.5	232.6	232.6
147.5°	254.7	255.6	254.7	251.8	250.8	249.9	247.9	246.0	245.1	245.1
150°	252.7	256.6	258.5	258.5	258.5	258.5	258.5	256.6	255.6	255.6
152.5°	247.0	252.7	256.6	259.5	260.4	261.4	261.4	262.4	261.4	261.4
155°	240.2	246.0	251.8	254.7	256.6	257.5	259.5	260.4	261.4	260.4
157.5°	232.6	237.4	241.2	247.0	248.9	250.8	252.7	254.7	255.6	254.7
160°	225.8	229.7	232.6	236.4	237.4	239.3	241.2	242.2	244.1	243.1
162.5°	219.1	222.0	224.9	226.8	228.7	229.7	231.6	232.6	233.5	232.6
165°	214.3	216.2	217.2	219.1	220.1	221.0	222.0	223.0	223.0	223.0
167.5°	208.5	210.5	211.4	212.4	213.3	214.3	214.3	215.3	215.3	215.3
170°	203.7	204.7	205.7	206.6	206.6	207.6	207.6	207.6	208.5	207.6
172.5°	199.9	199.9	199.9	200.8	200.8	200.8	200.8	200.8	200.8	199.9
175°	198.0	198.0	197.0	197.0	197.0	197.0	197.0	196.0	195.1	194.1
177.5°	197.0	196.0	196.0	195.1	195.1	195.1	194.1	193.2	192.2	191.2
180°	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0

(END OF REPORT)