

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: P393818

Luminaire Tested: **I3-FL-80L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-80L835-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

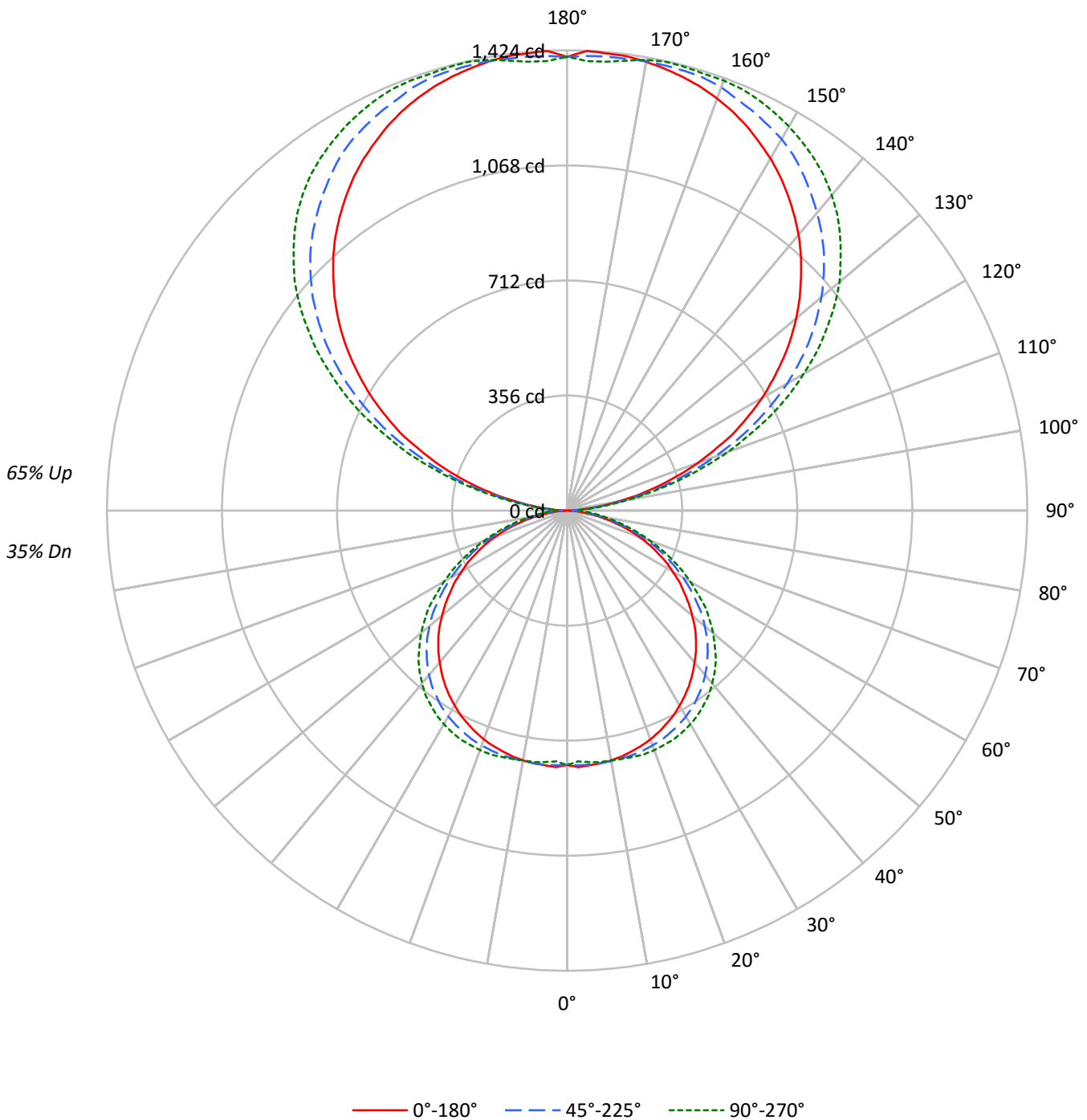
Lumens per Lamp: N/A
Luminaire Lumens: 7231.9 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 57.2
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4325	4325	4325
5°	4347	4253	4187
10°	4348	4195	4138
15°	4338	4159	4121
20°	4339	4123	4115
25°	4327	4086	4099
30°	4313	4048	4062
35°	4292	3983	4002
40°	4249	3899	3914
45°	4205	3779	3794
50°	4109	3611	3609
55°	3991	3383	3393
60°	3857	3117	3065
65°	3666	2793	2722
70°	3406	2381	2299
75°	2963	1892	1829
80°	2313	1344	1339
85°	1256	770	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.0
10°-20°	220.7	3.1
20°-30°	348.0	4.8
30°-40°	437.3	6.0
40°-50°	470.2	6.5
50°-60°	432.6	6.0
60°-70°	331.4	4.6
70°-80°	188.7	2.6
80°-90°	58.9	0.8
90°-100°	78.8	1.1
100°-110°	342.7	4.7
110°-120°	627.5	8.7
120°-130°	808.8	11.2
130°-140°	860.6	11.9
140°-150°	791.8	10.9
150°-160°	627.3	8.7
160°-170°	397.2	5.5
170°-180°	134.5	1.9
0°-30°	643.7	8.9
0°-40°	1081.0	14.9
0°-60°	1983.8	27.4
0°-90°	2562.8	35.4
90°-120°	1049.0	14.5
90°-150°	3510.1	48.5
90°-180°	4669.0	64.6
0°-180°	7231.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	791	783	789	785	781	75
15°	771	767	783	789	789	218
25°	728	730	757	775	781	336
35°	659	667	704	728	736	412
45°	564	578	615	641	651	434
55°	442	460	487	513	523	396
65°	308	318	337	353	359	305
75°	162	166	178	187	193	171
85°	30	38	49	63	67	37
90°	2	6	18	26	30	4
95°	53	51	57	65	67	66
105°	290	304	327	347	353	308
115°	570	596	643	676	694	559
125°	814	850	915	960	980	727
135°	1024	1057	1124	1171	1195	790
145°	1191	1217	1272	1310	1331	745
155°	1313	1329	1363	1390	1402	605
165°	1388	1388	1408	1418	1420	392
175°	1420	1410	1410	1404	1394	135
180°	1404	1404	1404	1404	1404	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	794.8	792.8	790.8	786.9	786.9	784.9	784.9	784.9	784.9	786.9	788.8
5°	790.8	790.8	788.8	784.9	784.9	782.9	782.9	784.9	782.9	784.9	788.8
7.5°	788.8	788.8	786.9	782.9	782.9	782.9	782.9	782.9	782.9	784.9	788.8
10°	784.9	784.9	781.0	779.0	779.0	779.0	779.0	781.0	781.0	782.9	786.9
12.5°	779.0	777.0	775.0	773.1	773.1	773.1	775.0	777.0	777.0	781.0	784.9
15°	771.1	771.1	769.1	767.2	767.2	767.2	769.1	771.1	773.1	777.0	782.9
17.5°	763.2	763.2	761.2	761.2	761.2	761.2	763.2	765.2	769.1	773.1	779.0
20°	753.3	753.3	751.4	751.4	751.4	753.3	753.3	757.3	761.2	767.2	773.1
22.5°	741.5	741.5	741.5	739.5	741.5	743.5	745.5	749.4	753.3	759.3	767.2
25°	727.7	727.7	727.7	727.7	729.7	729.7	733.6	737.6	741.5	749.4	757.3
27.5°	713.9	713.9	713.9	711.9	715.9	717.8	719.8	725.7	729.7	739.5	747.4
30°	696.2	696.2	696.2	698.1	700.1	702.1	706.0	711.9	715.9	725.7	735.6
32.5°	678.4	678.4	678.4	678.4	684.3	686.3	688.3	694.2	702.1	711.9	721.8
35°	658.7	658.7	658.7	660.7	664.6	666.6	670.5	676.4	684.3	694.2	704.0
37.5°	637.0	639.0	639.0	640.9	644.9	648.8	652.8	658.7	666.6	676.4	686.3
40°	613.3	615.3	615.3	617.3	621.2	625.2	629.1	637.0	644.9	654.7	664.6
42.5°	589.7	591.6	591.6	595.6	599.5	603.5	607.4	615.3	623.2	633.0	640.9
45°	564.0	566.0	566.0	569.9	575.9	577.8	583.7	591.6	599.5	607.4	615.3
47.5°	536.4	538.4	538.4	542.3	548.2	552.2	556.1	564.0	569.9	579.8	587.7
50°	504.9	506.8	508.8	512.7	520.6	524.6	528.5	534.4	542.3	548.2	556.1
52.5°	475.3	475.3	477.3	481.2	487.1	491.1	493.0	498.9	508.8	516.7	524.6
55°	441.8	443.7	445.7	449.6	455.6	459.5	461.5	467.4	473.3	479.2	487.1
57.5°	412.2	412.2	414.1	418.1	424.0	426.0	427.9	431.9	439.8	445.7	451.6
60°	376.7	378.6	380.6	384.6	388.5	392.5	392.5	398.4	404.3	410.2	414.1
62.5°	345.1	345.1	347.1	351.0	353.0	357.0	357.0	362.9	366.8	372.7	376.7
65°	307.6	309.6	311.6	313.6	317.5	317.5	319.5	323.4	327.4	331.3	337.2
67.5°	274.1	274.1	276.1	278.1	280.0	280.0	282.0	286.0	289.9	293.8	297.8
70°	236.7	238.6	238.6	238.6	240.6	242.6	244.5	246.5	250.5	252.4	256.4
72.5°	199.2	199.2	201.2	201.2	203.1	205.1	207.1	209.0	211.0	215.0	216.9
75°	161.7	161.7	163.7	163.7	165.7	165.7	165.7	169.6	171.6	175.5	177.5
77.5°	124.2	126.2	126.2	126.2	128.2	130.2	130.2	132.1	136.1	138.0	140.0
80°	90.7	90.7	90.7	90.7	92.7	94.7	96.6	96.6	100.6	104.5	106.5
82.5°	57.2	57.2	59.2	61.1	61.1	63.1	65.1	67.1	71.0	73.0	74.9
85°	29.6	29.6	31.6	33.5	35.5	37.5	37.5	39.4	43.4	47.3	49.3
87.5°	9.9	11.8	11.8	13.8	15.8	17.7	19.7	21.7	25.6	29.6	31.6
90°	2.0	2.0	2.0	3.9	5.9	5.9	7.9	9.9	11.8	13.8	17.7
92.5°	17.7	17.7	15.8	17.7	17.7	17.7	17.7	19.7	21.7	21.7	25.6
95°	53.2	51.3	51.3	51.3	51.3	51.3	51.3	53.2	55.2	55.2	57.2
97.5°	102.5	102.5	100.6	100.6	102.5	102.5	102.5	104.5	108.5	106.5	110.4
100°	159.7	159.7	157.8	159.7	161.7	163.7	167.6	167.6	171.6	171.6	177.5
102.5°	224.8	224.8	222.8	226.8	228.8	232.7	232.7	236.7	242.6	242.6	250.5
105°	289.9	291.9	291.9	295.8	299.8	303.7	303.7	309.6	317.5	317.5	327.4
107.5°	360.9	362.9	362.9	366.8	370.8	374.7	376.7	384.6	392.5	394.4	406.3
110°	429.9	431.9	433.9	437.8	441.8	447.7	451.6	459.5	469.4	473.3	483.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	495.0	502.9	504.9	510.8	516.7	522.6	526.6	536.4	548.2	554.2	566.0
115°	569.9	573.9	575.9	581.8	589.7	595.6	599.5	609.4	621.2	629.1	642.9
117.5°	631.1	640.9	642.9	648.8	656.7	662.6	666.6	678.4	692.2	702.1	715.9
120°	696.2	704.0	711.9	715.9	721.8	729.7	733.6	745.5	761.2	771.1	786.9
122.5°	755.3	763.2	771.1	777.0	784.9	788.8	794.8	808.6	824.3	836.2	852.0
125°	814.5	824.3	830.3	836.2	846.0	850.0	855.9	869.7	885.5	899.3	915.1
127.5°	871.7	877.6	887.5	891.4	901.3	905.2	911.1	926.9	942.7	956.5	972.3
130°	924.9	932.8	940.7	942.7	954.5	960.4	966.3	980.1	997.9	1011.7	1027.5
132.5°	976.2	980.1	990.0	995.9	1005.8	1011.7	1017.6	1029.4	1047.2	1061.0	1076.8
135°	1023.5	1027.5	1039.3	1045.2	1051.1	1057.1	1064.9	1076.8	1094.5	1108.3	1124.1
137.5°	1070.9	1074.8	1086.6	1092.6	1096.5	1102.4	1108.3	1120.2	1137.9	1151.7	1165.5
140°	1114.2	1118.2	1126.1	1134.0	1137.9	1141.9	1147.8	1159.6	1175.4	1189.2	1203.0
142.5°	1153.7	1157.6	1165.5	1173.4	1179.3	1179.3	1185.2	1195.1	1212.9	1226.7	1238.5
145°	1191.2	1193.1	1201.0	1208.9	1216.8	1216.8	1218.8	1228.6	1244.4	1260.2	1272.0
147.5°	1226.7	1228.6	1234.5	1242.4	1248.3	1250.3	1254.3	1258.2	1274.0	1289.8	1303.6
150°	1258.2	1260.2	1264.1	1272.0	1276.0	1279.9	1283.8	1285.8	1297.7	1311.5	1327.2
152.5°	1285.8	1287.8	1291.7	1297.7	1301.6	1305.5	1309.5	1315.4	1321.3	1335.1	1345.0
155°	1313.4	1315.4	1317.4	1323.3	1327.2	1329.2	1331.2	1339.1	1345.0	1352.9	1362.7
157.5°	1337.1	1337.1	1339.1	1343.0	1347.0	1347.0	1348.9	1356.8	1362.7	1370.6	1376.5
160°	1356.8	1356.8	1358.8	1362.7	1362.7	1364.7	1366.7	1372.6	1376.5	1386.4	1394.3
162.5°	1374.6	1372.6	1374.6	1376.5	1376.5	1376.5	1378.5	1382.5	1388.4	1396.3	1404.1
165°	1388.4	1388.4	1388.4	1390.3	1390.3	1388.4	1388.4	1392.3	1396.3	1402.2	1408.1
167.5°	1400.2	1400.2	1398.2	1400.2	1398.2	1398.2	1396.3	1398.2	1400.2	1406.1	1410.1
170°	1410.1	1408.1	1408.1	1408.1	1406.1	1404.1	1404.1	1404.1	1404.1	1408.1	1412.0
172.5°	1418.0	1416.0	1414.0	1414.0	1410.1	1408.1	1408.1	1406.1	1406.1	1408.1	1410.1
175°	1419.9	1418.0	1416.0	1416.0	1412.0	1410.1	1408.1	1408.1	1406.1	1408.1	1410.1
177.5°	1423.9	1421.9	1418.0	1418.0	1414.0	1410.1	1410.1	1408.1	1406.1	1408.1	1408.1
180°	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	790.8	790.8	788.8	786.9	786.9	784.9	782.9	781.0	779.0	777.0
5°	790.8	788.8	786.9	786.9	784.9	784.9	784.9	782.9	781.0	781.0
7.5°	790.8	790.8	788.8	786.9	786.9	786.9	786.9	786.9	784.9	784.9
10°	790.8	788.8	788.8	788.8	786.9	788.8	788.8	786.9	786.9	784.9
12.5°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	786.9
15°	784.9	786.9	786.9	788.8	788.8	788.8	790.8	790.8	788.8	788.8
17.5°	782.9	784.9	786.9	788.8	788.8	788.8	790.8	790.8	790.8	790.8
20°	779.0	781.0	782.9	784.9	784.9	786.9	786.9	788.8	788.8	788.8
22.5°	771.1	773.1	777.0	779.0	781.0	782.9	784.9	784.9	784.9	784.9
25°	763.2	767.2	769.1	773.1	775.0	777.0	779.0	779.0	779.0	781.0
27.5°	753.3	757.3	763.2	765.2	767.2	769.1	771.1	773.1	773.1	773.1
30°	741.5	747.4	751.4	755.3	757.3	759.3	761.2	761.2	763.2	763.2
32.5°	727.7	733.6	737.6	741.5	743.5	745.5	749.4	749.4	751.4	751.4
35°	710.0	715.9	721.8	725.7	727.7	729.7	733.6	735.6	735.6	735.6
37.5°	692.2	698.1	704.0	710.0	711.9	713.9	717.8	717.8	719.8	719.8
40°	670.5	676.4	682.4	688.3	688.3	692.2	694.2	696.2	698.1	698.1
42.5°	648.8	654.7	658.7	664.6	666.6	668.5	670.5	674.5	674.5	676.4
45°	623.2	629.1	633.0	639.0	640.9	642.9	646.9	648.8	650.8	650.8
47.5°	595.6	599.5	603.5	609.4	613.3	615.3	617.3	619.2	621.2	619.2
50°	564.0	568.0	573.9	579.8	581.8	583.7	587.7	587.7	589.7	589.7
52.5°	530.5	536.4	540.4	546.3	548.2	550.2	554.2	554.2	556.1	556.1
55°	493.0	497.0	500.9	510.8	512.7	514.7	518.7	518.7	520.6	522.6
57.5°	457.5	459.5	465.4	469.4	473.3	473.3	475.3	477.3	479.2	479.2
60°	420.1	422.0	426.0	431.9	431.9	433.9	437.8	437.8	439.8	439.8
62.5°	380.6	384.6	388.5	394.4	392.5	394.4	398.4	398.4	400.3	400.3
65°	341.2	343.1	347.1	351.0	353.0	353.0	355.0	357.0	358.9	358.9
67.5°	299.8	303.7	305.7	311.6	309.6	311.6	313.6	313.6	315.5	315.5
70°	260.3	262.3	266.2	268.2	268.2	270.2	272.2	272.2	272.2	274.1
72.5°	220.9	222.8	224.8	226.8	226.8	228.8	230.7	230.7	232.7	232.7
75°	179.5	183.4	185.4	189.3	187.4	189.3	193.3	193.3	193.3	193.3
77.5°	144.0	145.9	149.9	151.9	151.9	151.9	155.8	153.8	155.8	155.8
80°	108.5	110.4	114.4	116.4	116.4	118.3	120.3	120.3	120.3	122.3
82.5°	76.9	80.9	84.8	86.8	86.8	88.7	90.7	90.7	92.7	92.7
85°	53.2	57.2	61.1	61.1	63.1	65.1	67.1	67.1	67.1	67.1
87.5°	35.5	37.5	39.4	41.4	43.4	43.4	45.4	45.4	47.3	47.3
90°	19.7	21.7	23.7	25.6	25.6	27.6	27.6	29.6	29.6	29.6
92.5°	27.6	27.6	29.6	31.6	31.6	31.6	31.6	33.5	33.5	33.5
95°	59.2	61.1	61.1	65.1	65.1	65.1	67.1	67.1	67.1	67.1
97.5°	114.4	114.4	114.4	118.3	118.3	118.3	120.3	120.3	120.3	122.3
100°	179.5	181.4	181.4	187.4	185.4	189.3	189.3	189.3	189.3	191.3
102.5°	252.4	256.4	258.3	264.3	264.3	264.3	268.2	266.2	268.2	268.2
105°	331.3	335.3	337.2	343.1	347.1	347.1	351.0	349.1	351.0	353.0
107.5°	410.2	416.1	420.1	426.0	429.9	431.9	431.9	433.9	435.8	437.8
110°	491.1	497.0	506.8	512.7	514.7	518.7	520.6	522.6	524.6	528.5



TEST NUMBER: P393818

CATALOG NUMBER: I3-FL-80L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	575.9	581.8	589.7	597.6	595.6	601.5	605.4	607.4	609.4	607.4
115°	652.8	660.7	668.5	676.4	676.4	680.4	688.3	690.2	690.2	694.2
117.5°	725.7	735.6	743.5	751.4	753.3	757.3	763.2	769.1	769.1	773.1
120°	796.7	808.6	816.5	824.3	828.3	830.3	836.2	844.1	844.1	844.1
122.5°	863.8	873.6	883.5	891.4	895.3	899.3	903.2	913.1	913.1	917.0
125°	926.9	938.7	948.6	956.5	960.4	964.4	972.3	978.2	980.1	980.1
127.5°	986.1	997.9	1007.8	1017.6	1019.6	1023.5	1031.4	1039.3	1041.3	1043.2
130°	1041.3	1053.1	1063.0	1072.8	1076.8	1078.7	1088.6	1094.5	1098.5	1100.4
132.5°	1090.6	1102.4	1112.3	1122.1	1126.1	1130.0	1135.9	1145.8	1147.8	1147.8
135°	1135.9	1147.8	1157.6	1169.5	1171.4	1175.4	1183.3	1189.2	1193.1	1195.1
137.5°	1177.4	1189.2	1201.0	1210.9	1214.8	1216.8	1224.7	1232.6	1236.5	1238.5
140°	1214.8	1226.7	1238.5	1246.4	1248.3	1254.3	1260.2	1268.1	1272.0	1274.0
142.5°	1250.3	1260.2	1270.0	1279.9	1281.9	1285.8	1291.7	1299.6	1303.6	1305.5
145°	1281.9	1291.7	1299.6	1307.5	1309.5	1313.4	1319.3	1325.3	1329.2	1331.2
147.5°	1311.5	1319.3	1327.2	1333.1	1335.1	1339.1	1343.0	1347.0	1350.9	1352.9
150°	1337.1	1341.0	1348.9	1352.9	1354.8	1358.8	1362.7	1366.7	1370.6	1372.6
152.5°	1356.8	1362.7	1366.7	1372.6	1374.6	1376.5	1380.5	1384.4	1388.4	1388.4
155°	1372.6	1378.5	1382.5	1388.4	1390.3	1392.3	1396.3	1398.2	1402.2	1402.2
157.5°	1384.4	1390.3	1394.3	1398.2	1400.2	1402.2	1404.1	1408.1	1412.0	1412.0
160°	1398.2	1400.2	1402.2	1406.1	1406.1	1408.1	1410.1	1412.0	1416.0	1416.0
162.5°	1410.1	1412.0	1408.1	1410.1	1408.1	1410.1	1412.0	1414.0	1416.0	1416.0
165°	1414.0	1418.0	1416.0	1418.0	1418.0	1418.0	1418.0	1419.9	1419.9	1419.9
167.5°	1414.0	1418.0	1416.0	1416.0	1418.0	1418.0	1419.9	1421.9	1421.9	1421.9
170°	1414.0	1416.0	1414.0	1412.0	1414.0	1414.0	1414.0	1416.0	1416.0	1416.0
172.5°	1412.0	1414.0	1410.1	1408.1	1408.1	1408.1	1406.1	1406.1	1404.1	1404.1
175°	1410.1	1410.1	1406.1	1404.1	1404.1	1404.1	1400.2	1398.2	1396.3	1394.3
177.5°	1408.1	1408.1	1402.2	1400.2	1400.2	1398.2	1398.2	1394.3	1394.3	1392.3
180°	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1

(END OF REPORT)