

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: P395051

Luminaire Tested: **I3-FL-80L930-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395051
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-80L930-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

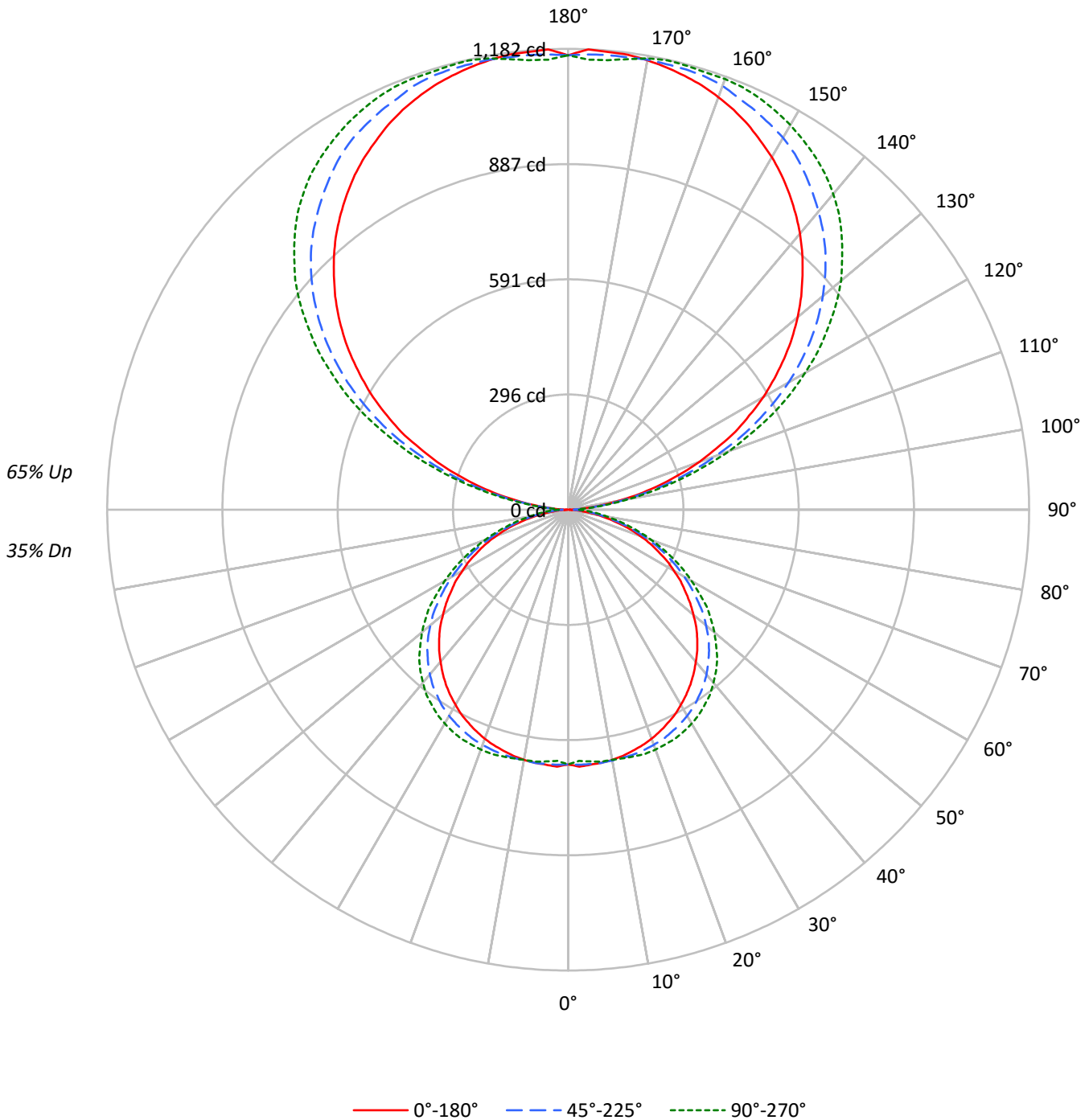
Lumens per Lamp: N/A
Luminaire Lumens: 6002.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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°	3590	3590	3590
5°	3608	3530	3475
10°	3609	3482	3434
15°	3601	3452	3420
20°	3601	3422	3415
25°	3592	3392	3402
30°	3579	3359	3372
35°	3562	3305	3321
40°	3526	3236	3249
45°	3490	3136	3149
50°	3411	2998	2996
55°	3313	2808	2816
60°	3202	2587	2544
65°	3043	2319	2259
70°	2827	1976	1908
75°	2459	1570	1518
80°	1920	1116	1112
85°	1044	639	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.0
10°-20°	183.1	3.1
20°-30°	288.8	4.8
30°-40°	363.0	6.0
40°-50°	390.3	6.5
50°-60°	359.0	6.0
60°-70°	275.1	4.6
70°-80°	156.6	2.6
80°-90°	48.9	0.8
90°-100°	65.4	1.1
100°-110°	284.5	4.7
110°-120°	520.8	8.7
120°-130°	671.3	11.2
130°-140°	714.3	11.9
140°-150°	657.2	10.9
150°-160°	520.6	8.7
160°-170°	329.7	5.5
170°-180°	111.6	1.9
0°-30°	534.2	8.9
0°-40°	897.2	14.9
0°-60°	1646.5	27.4
0°-90°	2127.1	35.4
90°-120°	870.7	14.5
90°-150°	2913.4	48.5
90°-180°	3875.0	64.6
0°-180°	6002.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	656	650	655	652	648	63
15°	640	637	650	655	655	181
25°	604	606	629	643	648	279
35°	547	553	584	604	610	342
45°	468	480	511	532	540	360
55°	367	381	404	426	434	329
65°	255	264	280	293	298	253
75°	134	138	147	156	160	142
85°	25	31	41	52	56	31
90°	2	5	15	21	25	4
95°	44	43	48	54	56	55
105°	241	252	272	288	293	256
115°	473	494	534	561	576	464
125°	676	706	760	797	814	604
135°	850	877	933	972	992	656
145°	989	1010	1056	1087	1105	619
155°	1090	1103	1131	1154	1164	503
165°	1152	1152	1169	1177	1178	326
175°	1178	1170	1170	1165	1157	112
180°	1165	1165	1165	1165	1165	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1
2.5°	659.7	658.0	656.4	653.1	653.1	651.5	651.5	651.5	651.5	653.1	654.7
5°	656.4	656.4	654.7	651.5	651.5	649.8	649.8	651.5	649.8	651.5	654.7
7.5°	654.7	654.7	653.1	649.8	649.8	649.8	649.8	649.8	649.8	651.5	654.7
10°	651.5	651.5	648.2	646.6	646.6	646.6	646.6	648.2	648.2	649.8	653.1
12.5°	646.6	644.9	643.2	641.7	641.7	641.7	643.2	644.9	644.9	648.2	651.5
15°	640.0	640.0	638.4	636.8	636.8	636.8	638.4	640.0	641.7	644.9	649.8
17.5°	633.5	633.5	631.8	631.8	631.8	631.8	633.5	635.1	638.4	641.7	646.6
20°	625.2	625.2	623.7	623.7	623.7	625.2	625.2	628.6	631.8	636.8	641.7
22.5°	615.4	615.4	615.4	613.8	615.4	617.1	618.8	622.0	625.2	630.2	636.8
25°	604.0	604.0	604.0	604.0	605.7	605.7	608.9	612.2	615.4	622.0	628.6
27.5°	592.5	592.5	592.5	590.9	594.2	595.8	597.4	602.3	605.7	613.8	620.3
30°	577.8	577.8	577.8	579.4	581.1	582.7	586.0	590.9	594.2	602.3	610.5
32.5°	563.1	563.1	563.1	563.1	568.0	569.6	571.3	576.2	582.7	590.9	599.1
35°	546.7	546.7	546.7	548.4	551.6	553.3	556.5	561.4	568.0	576.2	584.3
37.5°	528.7	530.4	530.4	531.9	535.3	538.5	541.8	546.7	553.3	561.4	569.6
40°	509.0	510.7	510.7	512.4	515.6	518.9	522.2	528.7	535.3	543.4	551.6
42.5°	489.5	491.0	491.0	494.3	497.6	500.9	504.1	510.7	517.3	525.4	531.9
45°	468.1	469.8	469.8	473.0	478.0	479.6	484.5	491.0	497.6	504.1	510.7
47.5°	445.2	446.9	446.9	450.1	455.0	458.3	461.6	468.1	473.0	481.2	487.8
50°	419.1	420.6	422.3	425.5	432.1	435.4	438.7	443.6	450.1	455.0	461.6
52.5°	394.5	394.5	396.2	399.4	404.3	407.6	409.2	414.1	422.3	428.9	435.4
55°	366.7	368.3	369.9	373.2	378.1	381.4	383.0	387.9	392.8	397.7	404.3
57.5°	342.1	342.1	343.7	347.0	351.9	353.6	355.2	358.5	365.0	369.9	374.8
60°	312.7	314.2	315.9	319.2	322.5	325.8	325.8	330.7	335.6	340.5	343.7
62.5°	286.4	286.4	288.1	291.3	293.0	296.3	296.3	301.2	304.4	309.3	312.7
65°	255.3	257.0	258.6	260.3	263.5	263.5	265.2	268.4	271.7	275.0	279.9
67.5°	227.5	227.5	229.2	230.8	232.4	232.4	234.1	237.4	240.6	243.9	247.2
70°	196.5	198.0	198.0	198.0	199.7	201.4	202.9	204.6	207.9	209.5	212.8
72.5°	165.3	165.3	167.0	167.0	168.6	170.2	171.9	173.5	175.1	178.4	180.0
75°	134.2	134.2	135.9	135.9	137.5	137.5	137.5	140.8	142.4	145.7	147.3
77.5°	103.1	104.7	104.7	104.7	106.4	108.1	108.1	109.6	113.0	114.5	116.2
80°	75.3	75.3	75.3	75.3	76.9	78.6	80.2	80.2	83.5	86.7	88.4
82.5°	47.5	47.5	49.1	50.7	50.7	52.4	54.0	55.7	58.9	60.6	62.2
85°	24.6	24.6	26.2	27.8	29.5	31.1	31.1	32.7	36.0	39.3	40.9
87.5°	8.2	9.8	9.8	11.5	13.1	14.7	16.4	18.0	21.2	24.6	26.2
90°	1.7	1.7	1.7	3.2	4.9	4.9	6.6	8.2	9.8	11.5	14.7
92.5°	14.7	14.7	13.1	14.7	14.7	14.7	14.7	16.4	18.0	18.0	21.2
95°	44.2	42.6	42.6	42.6	42.6	42.6	42.6	44.2	45.8	45.8	47.5
97.5°	85.1	85.1	83.5	83.5	85.1	85.1	85.1	86.7	90.1	88.4	91.6
100°	132.6	132.6	131.0	132.6	134.2	135.9	139.1	139.1	142.4	142.4	147.3
102.5°	186.6	186.6	184.9	188.2	189.9	193.1	193.1	196.5	201.4	201.4	207.9
105°	240.6	242.3	242.3	245.5	248.8	252.1	252.1	257.0	263.5	263.5	271.7
107.5°	299.5	301.2	301.2	304.4	307.8	311.0	312.7	319.2	325.8	327.4	337.2
110°	356.8	358.5	360.1	363.4	366.7	371.6	374.8	381.4	389.6	392.8	401.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	410.8	417.4	419.1	424.0	428.9	433.8	437.1	445.2	455.0	460.0	469.8
115°	473.0	476.3	478.0	482.9	489.5	494.3	497.6	505.8	515.6	522.2	533.6
117.5°	523.8	531.9	533.6	538.5	545.1	550.0	553.3	563.1	574.5	582.7	594.2
120°	577.8	584.3	590.9	594.2	599.1	605.7	608.9	618.8	631.8	640.0	653.1
122.5°	626.9	633.5	640.0	644.9	651.5	654.7	659.7	671.1	684.2	694.0	707.2
125°	676.0	684.2	689.1	694.0	702.2	705.5	710.4	721.9	735.0	746.4	759.5
127.5°	723.5	728.4	736.6	739.9	748.1	751.3	756.2	769.3	782.4	793.9	807.0
130°	767.7	774.2	780.8	782.4	792.2	797.1	802.0	813.5	828.3	839.7	852.8
132.5°	810.2	813.5	821.7	826.6	834.8	839.7	844.6	854.4	869.2	880.6	893.7
135°	849.5	852.8	862.6	867.5	872.4	877.4	883.9	893.7	908.4	919.9	933.0
137.5°	888.8	892.1	901.9	906.9	910.1	915.0	919.9	929.8	944.5	955.9	967.4
140°	924.8	928.1	934.7	941.2	944.5	947.8	952.7	962.5	975.6	987.0	998.5
142.5°	957.6	960.8	967.4	973.9	978.8	978.8	983.7	991.9	1006.7	1018.2	1028.0
145°	988.7	990.3	996.8	1003.4	1009.9	1009.9	1011.6	1019.7	1032.9	1046.0	1055.8
147.5°	1018.2	1019.7	1024.6	1031.2	1036.1	1037.7	1041.1	1044.3	1057.4	1070.5	1082.0
150°	1044.3	1046.0	1049.2	1055.8	1059.1	1062.3	1065.6	1067.2	1077.1	1088.5	1101.6
152.5°	1067.2	1068.9	1072.1	1077.1	1080.3	1083.6	1086.9	1091.8	1096.7	1108.1	1116.4
155°	1090.1	1091.8	1093.4	1098.3	1101.6	1103.2	1104.9	1111.5	1116.4	1122.9	1131.0
157.5°	1109.8	1109.8	1111.5	1114.7	1118.0	1118.0	1119.6	1126.1	1131.0	1137.6	1142.5
160°	1126.1	1126.1	1127.8	1131.0	1131.0	1132.7	1134.4	1139.3	1142.5	1150.7	1157.3
162.5°	1140.9	1139.3	1140.9	1142.5	1142.5	1142.5	1144.2	1147.5	1152.4	1158.9	1165.4
165°	1152.4	1152.4	1152.4	1153.9	1153.9	1152.4	1152.4	1155.6	1158.9	1163.8	1168.7
167.5°	1162.2	1162.2	1160.5	1162.2	1160.5	1160.5	1158.9	1160.5	1162.2	1167.1	1170.4
170°	1170.4	1168.7	1168.7	1168.7	1167.1	1165.4	1165.4	1165.4	1165.4	1168.7	1172.0
172.5°	1176.9	1175.3	1173.6	1173.6	1170.4	1168.7	1168.7	1167.1	1167.1	1168.7	1170.4
175°	1178.5	1176.9	1175.3	1175.3	1172.0	1170.4	1168.7	1168.7	1167.1	1168.7	1170.4
177.5°	1181.8	1180.2	1176.9	1176.9	1173.6	1170.4	1170.4	1168.7	1167.1	1168.7	1168.7
180°	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1
2.5°	656.4	656.4	654.7	653.1	653.1	651.5	649.8	648.2	646.6	644.9
5°	656.4	654.7	653.1	653.1	651.5	651.5	651.5	649.8	648.2	648.2
7.5°	656.4	656.4	654.7	653.1	653.1	653.1	653.1	653.1	651.5	651.5
10°	656.4	654.7	654.7	654.7	653.1	654.7	654.7	653.1	653.1	651.5
12.5°	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	653.1
15°	651.5	653.1	653.1	654.7	654.7	654.7	656.4	656.4	654.7	654.7
17.5°	649.8	651.5	653.1	654.7	654.7	654.7	656.4	656.4	656.4	656.4
20°	646.6	648.2	649.8	651.5	651.5	653.1	653.1	654.7	654.7	654.7
22.5°	640.0	641.7	644.9	646.6	648.2	649.8	651.5	651.5	651.5	651.5
25°	633.5	636.8	638.4	641.7	643.2	644.9	646.6	646.6	646.6	648.2
27.5°	625.2	628.6	633.5	635.1	636.8	638.4	640.0	641.7	641.7	641.7
30°	615.4	620.3	623.7	626.9	628.6	630.2	631.8	631.8	633.5	633.5
32.5°	604.0	608.9	612.2	615.4	617.1	618.8	622.0	622.0	623.7	623.7
35°	589.3	594.2	599.1	602.3	604.0	605.7	608.9	610.5	610.5	610.5
37.5°	574.5	579.4	584.3	589.3	590.9	592.5	595.8	595.8	597.4	597.4
40°	556.5	561.4	566.4	571.3	571.3	574.5	576.2	577.8	579.4	579.4
42.5°	538.5	543.4	546.7	551.6	553.3	554.9	556.5	559.8	559.8	561.4
45°	517.3	522.2	525.4	530.4	531.9	533.6	536.9	538.5	540.2	540.2
47.5°	494.3	497.6	500.9	505.8	509.0	510.7	512.4	513.9	515.6	513.9
50°	468.1	471.4	476.3	481.2	482.9	484.5	487.8	487.8	489.5	489.5
52.5°	440.3	445.2	448.5	453.4	455.0	456.7	460.0	460.0	461.6	461.6
55°	409.2	412.5	415.7	424.0	425.5	427.2	430.5	430.5	432.1	433.8
57.5°	379.7	381.4	386.3	389.6	392.8	392.8	394.5	396.2	397.7	397.7
60°	348.7	350.3	353.6	358.5	358.5	360.1	363.4	363.4	365.0	365.0
62.5°	315.9	319.2	322.5	327.4	325.8	327.4	330.7	330.7	332.2	332.2
65°	283.2	284.8	288.1	291.3	293.0	293.0	294.6	296.3	297.9	297.9
67.5°	248.8	252.1	253.7	258.6	257.0	258.6	260.3	260.3	261.9	261.9
70°	216.0	217.7	220.9	222.6	222.6	224.3	225.9	225.9	225.9	227.5
72.5°	183.3	184.9	186.6	188.2	188.2	189.9	191.5	191.5	193.1	193.1
75°	149.0	152.2	153.9	157.1	155.5	157.1	160.4	160.4	160.4	160.4
77.5°	119.5	121.1	124.4	126.1	126.1	126.1	129.3	127.7	129.3	129.3
80°	90.1	91.6	95.0	96.6	96.6	98.2	99.8	99.8	99.8	101.5
82.5°	63.8	67.1	70.4	72.0	72.0	73.6	75.3	75.3	76.9	76.9
85°	44.2	47.5	50.7	50.7	52.4	54.0	55.7	55.7	55.7	55.7
87.5°	29.5	31.1	32.7	34.4	36.0	36.0	37.7	37.7	39.3	39.3
90°	16.4	18.0	19.7	21.2	21.2	22.9	22.9	24.6	24.6	24.6
92.5°	22.9	22.9	24.6	26.2	26.2	26.2	26.2	27.8	27.8	27.8
95°	49.1	50.7	50.7	54.0	54.0	54.0	55.7	55.7	55.7	55.7
97.5°	95.0	95.0	95.0	98.2	98.2	98.2	99.8	99.8	99.8	101.5
100°	149.0	150.6	150.6	155.5	153.9	157.1	157.1	157.1	157.1	158.8
102.5°	209.5	212.8	214.4	219.4	219.4	219.4	222.6	220.9	222.6	222.6
105°	275.0	278.3	279.9	284.8	288.1	288.1	291.3	289.8	291.3	293.0
107.5°	340.5	345.4	348.7	353.6	356.8	358.5	358.5	360.1	361.7	363.4
110°	407.6	412.5	420.6	425.5	427.2	430.5	432.1	433.8	435.4	438.7



TEST NUMBER: P395051

CATALOG NUMBER: I3-FL-80L930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	478.0	482.9	489.5	496.0	494.3	499.2	502.5	504.1	505.8	504.1
115°	541.8	548.4	554.9	561.4	561.4	564.7	571.3	572.9	572.9	576.2
117.5°	602.3	610.5	617.1	623.7	625.2	628.6	633.5	638.4	638.4	641.7
120°	661.3	671.1	677.7	684.2	687.5	689.1	694.0	700.6	700.6	700.6
122.5°	717.0	725.1	733.3	739.9	743.1	746.4	749.7	757.9	757.9	761.1
125°	769.3	779.1	787.3	793.9	797.1	800.5	807.0	811.9	813.5	813.5
127.5°	818.5	828.3	836.5	844.6	846.3	849.5	856.1	862.6	864.3	865.9
130°	864.3	874.1	882.3	890.4	893.7	895.3	903.5	908.4	911.8	913.3
132.5°	905.2	915.0	923.2	931.3	934.7	937.9	942.8	951.0	952.7	952.7
135°	942.8	952.7	960.8	970.7	972.3	975.6	982.1	987.0	990.3	991.9
137.5°	977.2	987.0	996.8	1005.0	1008.3	1009.9	1016.5	1023.1	1026.3	1028.0
140°	1008.3	1018.2	1028.0	1034.5	1036.1	1041.1	1046.0	1052.5	1055.8	1057.4
142.5°	1037.7	1046.0	1054.1	1062.3	1064.0	1067.2	1072.1	1078.7	1082.0	1083.6
145°	1064.0	1072.1	1078.7	1085.2	1086.9	1090.1	1095.0	1100.0	1103.2	1104.9
147.5°	1088.5	1095.0	1101.6	1106.5	1108.1	1111.5	1114.7	1118.0	1121.2	1122.9
150°	1109.8	1113.0	1119.6	1122.9	1124.5	1127.8	1131.0	1134.4	1137.6	1139.3
152.5°	1126.1	1131.0	1134.4	1139.3	1140.9	1142.5	1145.8	1149.1	1152.4	1152.4
155°	1139.3	1144.2	1147.5	1152.4	1153.9	1155.6	1158.9	1160.5	1163.8	1163.8
157.5°	1149.1	1153.9	1157.3	1160.5	1162.2	1163.8	1165.4	1168.7	1172.0	1172.0
160°	1160.5	1162.2	1163.8	1167.1	1167.1	1168.7	1170.4	1172.0	1175.3	1175.3
162.5°	1170.4	1172.0	1168.7	1170.4	1168.7	1170.4	1172.0	1173.6	1175.3	1175.3
165°	1173.6	1176.9	1175.3	1176.9	1176.9	1176.9	1176.9	1178.5	1178.5	1178.5
167.5°	1173.6	1176.9	1175.3	1175.3	1176.9	1176.9	1178.5	1180.2	1180.2	1180.2
170°	1173.6	1175.3	1173.6	1172.0	1173.6	1173.6	1173.6	1175.3	1175.3	1175.3
172.5°	1172.0	1173.6	1170.4	1168.7	1168.7	1168.7	1167.1	1167.1	1165.4	1165.4
175°	1170.4	1170.4	1167.1	1165.4	1165.4	1165.4	1162.2	1160.5	1158.9	1157.3
177.5°	1168.7	1168.7	1163.8	1162.2	1162.2	1160.5	1160.5	1157.3	1157.3	1155.6
180°	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4

(END OF REPORT)