

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: P395053

Luminaire Tested: **I3-FL-80L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395053
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-80L940-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

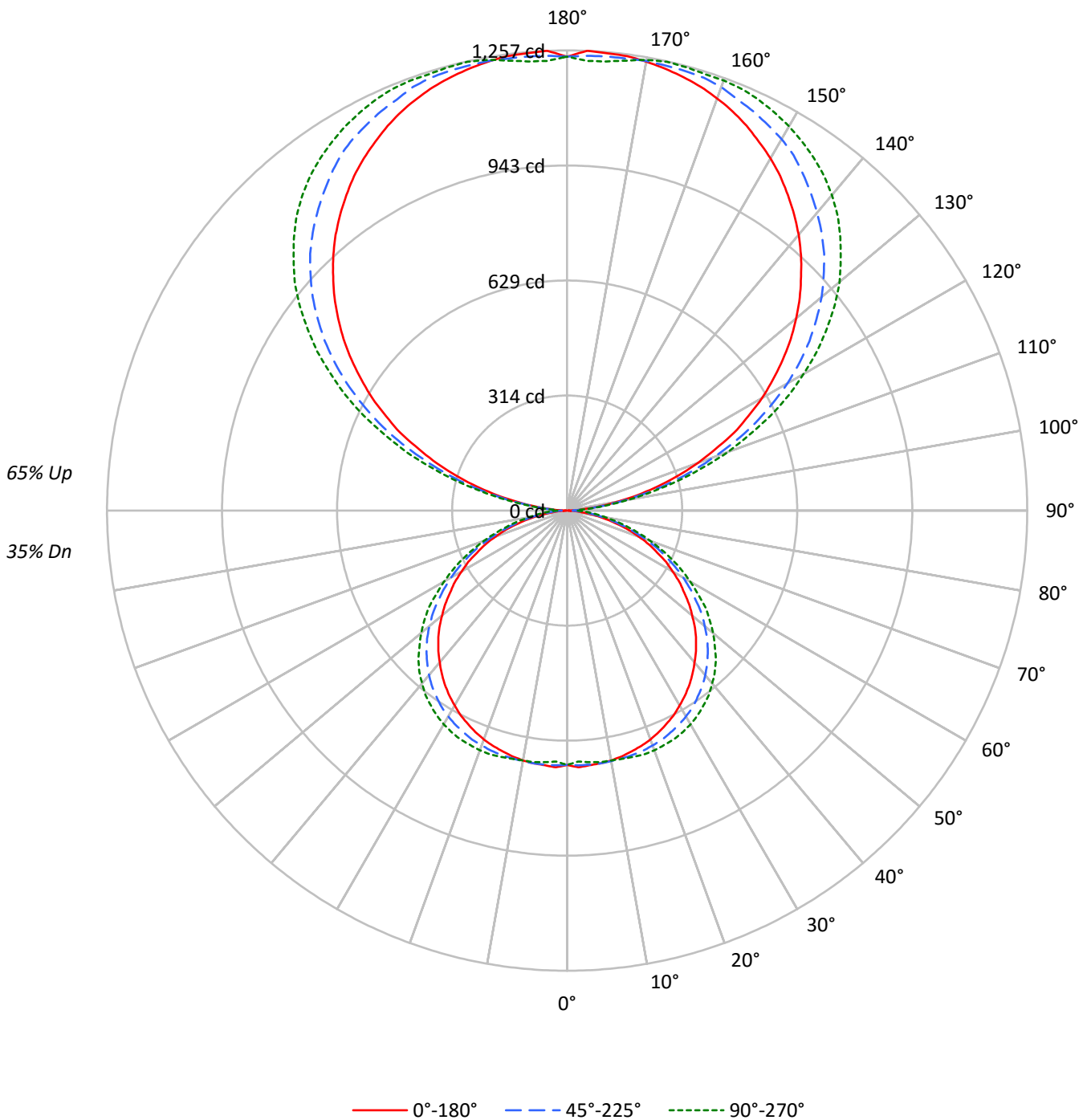
Lumens per Lamp: N/A
Luminaire Lumens: 6385.8 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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°	3819	3819	3819
5°	3839	3756	3697
10°	3840	3704	3654
15°	3831	3672	3638
20°	3832	3640	3633
25°	3821	3608	3620
30°	3808	3574	3587
35°	3790	3516	3533
40°	3751	3443	3456
45°	3713	3336	3350
50°	3628	3189	3187
55°	3524	2988	2996
60°	3405	2753	2706
65°	3237	2466	2403
70°	3007	2103	2030
75°	2617	1671	1615
80°	2042	1187	1183
85°	1107	679	776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.0
10°-20°	194.8	3.1
20°-30°	307.3	4.8
30°-40°	386.2	6.0
40°-50°	415.2	6.5
50°-60°	382.0	6.0
60°-70°	292.6	4.6
70°-80°	166.6	2.6
80°-90°	52.0	0.8
90°-100°	69.6	1.1
100°-110°	302.6	4.7
110°-120°	554.0	8.7
120°-130°	714.2	11.2
130°-140°	759.9	11.9
140°-150°	699.1	10.9
150°-160°	553.9	8.7
160°-170°	350.7	5.5
170°-180°	118.7	1.9
0°-30°	568.3	8.9
0°-40°	954.5	14.9
0°-60°	1751.7	27.4
0°-90°	2263.0	35.4
90°-120°	926.3	14.5
90°-150°	3099.4	48.5
90°-180°	4123.0	64.6
0°-180°	6385.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	698	691	696	693	690	67
15°	681	677	691	696	696	192
25°	643	644	669	684	690	296
35°	582	589	622	643	650	364
45°	498	510	543	566	575	383
55°	390	406	430	453	462	350
65°	272	280	298	312	317	269
75°	143	146	157	166	171	151
85°	26	33	44	56	59	33
90°	2	5	16	23	26	4
95°	47	45	50	58	59	59
105°	256	268	289	306	312	272
115°	503	526	568	597	613	494
125°	719	751	808	848	865	642
135°	904	933	993	1034	1055	697
145°	1052	1074	1123	1156	1175	658
155°	1160	1174	1203	1228	1238	535
165°	1226	1226	1243	1252	1254	346
175°	1254	1245	1245	1240	1231	119
180°	1240	1240	1240	1240	1240	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8
2.5°	701.8	700.0	698.3	694.8	694.8	693.1	693.1	693.1	693.1	694.8	696.5
5°	698.3	698.3	696.5	693.1	693.1	691.3	691.3	693.1	691.3	693.1	696.5
7.5°	696.5	696.5	694.8	691.3	691.3	691.3	691.3	691.3	691.3	693.1	696.5
10°	693.1	693.1	689.6	687.9	687.9	687.9	687.9	689.6	689.6	691.3	694.8
12.5°	687.9	686.1	684.3	682.6	682.6	682.6	684.3	686.1	686.1	689.6	693.1
15°	680.9	680.9	679.1	677.4	677.4	677.4	679.1	680.9	682.6	686.1	691.3
17.5°	673.9	673.9	672.1	672.1	672.1	672.1	673.9	675.7	679.1	682.6	687.9
20°	665.2	665.2	663.5	663.5	663.5	665.2	665.2	668.7	672.1	677.4	682.6
22.5°	654.7	654.7	654.7	653.0	654.7	656.5	658.3	661.7	665.2	670.5	677.4
25°	642.6	642.6	642.6	642.6	644.3	644.3	647.8	651.3	654.7	661.7	668.7
27.5°	630.4	630.4	630.4	628.6	632.1	633.8	635.6	640.8	644.3	653.0	660.0
30°	614.7	614.7	614.7	616.4	618.2	620.0	623.4	628.6	632.1	640.8	649.5
32.5°	599.0	599.0	599.0	599.0	604.2	606.0	607.8	613.0	620.0	628.6	637.3
35°	581.6	581.6	581.6	583.4	586.8	588.6	592.1	597.3	604.2	613.0	621.6
37.5°	562.5	564.2	564.2	565.9	569.4	572.9	576.4	581.6	588.6	597.3	606.0
40°	541.5	543.3	543.3	545.1	548.5	552.1	555.5	562.5	569.4	578.1	586.8
42.5°	520.7	522.4	522.4	525.9	529.4	532.9	536.3	543.3	550.3	558.9	565.9
45°	498.0	499.8	499.8	503.2	508.5	510.2	515.4	522.4	529.4	536.3	543.3
47.5°	473.6	475.4	475.4	478.9	484.1	487.6	491.0	498.0	503.2	512.0	518.9
50°	445.8	447.5	449.3	452.7	459.7	463.2	466.7	471.9	478.9	484.1	491.0
52.5°	419.7	419.7	421.5	424.9	430.1	433.6	435.3	440.5	449.3	456.2	463.2
55°	390.1	391.8	393.6	397.0	402.3	405.7	407.5	412.7	417.9	423.1	430.1
57.5°	364.0	364.0	365.7	369.2	374.4	376.2	377.8	381.4	388.3	393.6	398.8
60°	332.6	334.3	336.1	339.6	343.0	346.6	346.6	351.8	357.0	362.2	365.7
62.5°	304.7	304.7	306.5	309.9	311.7	315.2	315.2	320.4	323.9	329.1	332.6
65°	271.6	273.4	275.1	276.9	280.4	280.4	282.1	285.6	289.1	292.5	297.7
67.5°	242.0	242.0	243.8	245.6	247.2	247.2	249.0	252.5	256.0	259.4	263.0
70°	209.0	210.7	210.7	210.7	212.4	214.2	215.9	217.7	221.2	222.9	226.4
72.5°	175.9	175.9	177.7	177.7	179.3	181.1	182.9	184.5	186.3	189.8	191.5
75°	142.8	142.8	144.5	144.5	146.3	146.3	146.3	149.8	151.5	155.0	156.7
77.5°	109.7	111.4	111.4	111.4	113.2	115.0	115.0	116.6	120.2	121.9	123.6
80°	80.1	80.1	80.1	80.1	81.9	83.6	85.3	85.3	88.8	92.3	94.0
82.5°	50.5	50.5	52.3	54.0	54.0	55.7	57.5	59.2	62.7	64.5	66.1
85°	26.1	26.1	27.9	29.6	31.3	33.1	33.1	34.8	38.3	41.8	43.5
87.5°	8.7	10.4	10.4	12.2	14.0	15.6	17.4	19.2	22.6	26.1	27.9
90°	1.8	1.8	1.8	3.4	5.2	5.2	7.0	8.7	10.4	12.2	15.6
92.5°	15.6	15.6	14.0	15.6	15.6	15.6	15.6	17.4	19.2	19.2	22.6
95°	47.0	45.3	45.3	45.3	45.3	45.3	45.3	47.0	48.7	48.7	50.5
97.5°	90.5	90.5	88.8	88.8	90.5	90.5	90.5	92.3	95.8	94.0	97.5
100°	141.0	141.0	139.3	141.0	142.8	144.5	148.0	148.0	151.5	151.5	156.7
102.5°	198.5	198.5	196.7	200.3	202.0	205.5	205.5	209.0	214.2	214.2	221.2
105°	256.0	257.7	257.7	261.2	264.7	268.2	268.2	273.4	280.4	280.4	289.1
107.5°	318.7	320.4	320.4	323.9	327.4	330.9	332.6	339.6	346.6	348.3	358.8
110°	379.6	381.4	383.1	386.6	390.1	395.3	398.8	405.7	414.5	417.9	426.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	437.1	444.1	445.8	451.0	456.2	461.5	465.0	473.6	484.1	489.4	499.8
115°	503.2	506.8	508.5	513.7	520.7	525.9	529.4	538.1	548.5	555.5	567.7
117.5°	557.3	565.9	567.7	572.9	579.9	585.1	588.6	599.0	611.2	620.0	632.1
120°	614.7	621.6	628.6	632.1	637.3	644.3	647.8	658.3	672.1	680.9	694.8
122.5°	666.9	673.9	680.9	686.1	693.1	696.5	701.8	714.0	727.9	738.4	752.3
125°	719.2	727.9	733.2	738.4	747.0	750.6	755.8	767.9	781.9	794.1	808.0
127.5°	769.7	774.9	783.7	787.1	795.8	799.3	804.5	818.5	832.4	844.6	858.5
130°	816.7	823.7	830.6	832.4	842.8	848.0	853.2	865.4	881.1	893.3	907.3
132.5°	862.0	865.4	874.2	879.4	888.1	893.3	898.5	909.0	924.7	936.9	950.8
135°	903.8	907.3	917.7	922.9	928.1	933.4	940.3	950.8	966.4	978.6	992.6
137.5°	945.6	949.0	959.5	964.8	968.2	973.4	978.6	989.1	1004.8	1017.0	1029.1
140°	983.8	987.4	994.3	1001.3	1004.8	1008.3	1013.5	1023.9	1037.9	1050.1	1062.2
142.5°	1018.7	1022.2	1029.1	1036.1	1041.3	1041.3	1046.5	1055.3	1071.0	1083.2	1093.6
145°	1051.8	1053.5	1060.5	1067.5	1074.4	1074.4	1076.2	1084.9	1098.8	1112.8	1123.2
147.5°	1083.2	1084.9	1090.1	1097.0	1102.2	1104.0	1107.5	1111.0	1124.9	1138.9	1151.1
150°	1111.0	1112.8	1116.2	1123.2	1126.7	1130.2	1133.6	1135.4	1145.9	1158.1	1171.9
152.5°	1135.4	1137.1	1140.6	1145.9	1149.3	1152.8	1156.3	1161.5	1166.7	1178.9	1187.6
155°	1159.7	1161.5	1163.3	1168.5	1171.9	1173.7	1175.4	1182.4	1187.6	1194.6	1203.3
157.5°	1180.7	1180.7	1182.4	1185.9	1189.4	1189.4	1191.1	1198.1	1203.3	1210.2	1215.4
160°	1198.1	1198.1	1199.8	1203.3	1203.3	1205.0	1206.8	1212.0	1215.4	1224.2	1231.2
162.5°	1213.8	1212.0	1213.8	1215.4	1215.4	1215.4	1217.2	1220.7	1226.0	1232.9	1239.8
165°	1226.0	1226.0	1226.0	1227.6	1227.6	1226.0	1226.0	1229.4	1232.9	1238.1	1243.4
167.5°	1236.4	1236.4	1234.6	1236.4	1234.6	1234.6	1232.9	1234.6	1236.4	1241.6	1245.1
170°	1245.1	1243.4	1243.4	1243.4	1241.6	1239.8	1239.8	1239.8	1239.8	1243.4	1246.8
172.5°	1252.1	1250.3	1248.6	1248.6	1245.1	1243.4	1243.4	1241.6	1241.6	1243.4	1245.1
175°	1253.8	1252.1	1250.3	1250.3	1246.8	1245.1	1243.4	1243.4	1241.6	1243.4	1245.1
177.5°	1257.3	1255.5	1252.1	1252.1	1248.6	1245.1	1245.1	1243.4	1241.6	1243.4	1243.4
180°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8	694.8
2.5°	698.3	698.3	696.5	694.8	694.8	693.1	691.3	689.6	687.9	686.1
5°	698.3	696.5	694.8	694.8	693.1	693.1	693.1	691.3	689.6	689.6
7.5°	698.3	698.3	696.5	694.8	694.8	694.8	694.8	694.8	693.1	693.1
10°	698.3	696.5	696.5	696.5	694.8	696.5	696.5	694.8	694.8	693.1
12.5°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	694.8
15°	693.1	694.8	694.8	696.5	696.5	696.5	698.3	698.3	696.5	696.5
17.5°	691.3	693.1	694.8	696.5	696.5	696.5	698.3	698.3	698.3	698.3
20°	687.9	689.6	691.3	693.1	693.1	694.8	694.8	696.5	696.5	696.5
22.5°	680.9	682.6	686.1	687.9	689.6	691.3	693.1	693.1	693.1	693.1
25°	673.9	677.4	679.1	682.6	684.3	686.1	687.9	687.9	687.9	689.6
27.5°	665.2	668.7	673.9	675.7	677.4	679.1	680.9	682.6	682.6	682.6
30°	654.7	660.0	663.5	666.9	668.7	670.5	672.1	672.1	673.9	673.9
32.5°	642.6	647.8	651.3	654.7	656.5	658.3	661.7	661.7	663.5	663.5
35°	626.9	632.1	637.3	640.8	642.6	644.3	647.8	649.5	649.5	649.5
37.5°	611.2	616.4	621.6	626.9	628.6	630.4	633.8	633.8	635.6	635.6
40°	592.1	597.3	602.6	607.8	607.8	611.2	613.0	614.7	616.4	616.4
42.5°	572.9	578.1	581.6	586.8	588.6	590.3	592.1	595.6	595.6	597.3
45°	550.3	555.5	558.9	564.2	565.9	567.7	571.2	572.9	574.7	574.7
47.5°	525.9	529.4	532.9	538.1	541.5	543.3	545.1	546.8	548.5	546.8
50°	498.0	501.5	506.8	512.0	513.7	515.4	518.9	518.9	520.7	520.7
52.5°	468.4	473.6	477.2	482.4	484.1	485.8	489.4	489.4	491.0	491.0
55°	435.3	438.9	442.3	451.0	452.7	454.5	458.0	458.0	459.7	461.5
57.5°	404.0	405.7	410.9	414.5	417.9	417.9	419.7	421.5	423.1	423.1
60°	370.9	372.6	376.2	381.4	381.4	383.1	386.6	386.6	388.3	388.3
62.5°	336.1	339.6	343.0	348.3	346.6	348.3	351.8	351.8	353.5	353.5
65°	301.3	303.0	306.5	309.9	311.7	311.7	313.5	315.2	316.9	316.9
67.5°	264.7	268.2	269.9	275.1	273.4	275.1	276.9	276.9	278.6	278.6
70°	229.8	231.6	235.1	236.8	236.8	238.6	240.4	240.4	240.4	242.0
72.5°	195.1	196.7	198.5	200.3	200.3	202.0	203.7	203.7	205.5	205.5
75°	158.5	161.9	163.7	167.2	165.5	167.2	170.7	170.7	170.7	170.7
77.5°	127.2	128.8	132.4	134.1	134.1	134.1	137.6	135.8	137.6	137.6
80°	95.8	97.5	101.0	102.8	102.8	104.5	106.2	106.2	106.2	108.0
82.5°	67.9	71.4	74.9	76.6	76.6	78.3	80.1	80.1	81.9	81.9
85°	47.0	50.5	54.0	54.0	55.7	57.5	59.2	59.2	59.2	59.2
87.5°	31.3	33.1	34.8	36.6	38.3	38.3	40.1	40.1	41.8	41.8
90°	17.4	19.2	20.9	22.6	22.6	24.4	24.4	26.1	26.1	26.1
92.5°	24.4	24.4	26.1	27.9	27.9	27.9	27.9	29.6	29.6	29.6
95°	52.3	54.0	54.0	57.5	57.5	57.5	59.2	59.2	59.2	59.2
97.5°	101.0	101.0	101.0	104.5	104.5	104.5	106.2	106.2	106.2	108.0
100°	158.5	160.2	160.2	165.5	163.7	167.2	167.2	167.2	167.2	168.9
102.5°	222.9	226.4	228.1	233.4	233.4	233.4	236.8	235.1	236.8	236.8
105°	292.5	296.1	297.7	303.0	306.5	306.5	309.9	308.3	309.9	311.7
107.5°	362.2	367.4	370.9	376.2	379.6	381.4	381.4	383.1	384.8	386.6
110°	433.6	438.9	447.5	452.7	454.5	458.0	459.7	461.5	463.2	466.7



TEST NUMBER: P395053

CATALOG NUMBER: I3-FL-80L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	508.5	513.7	520.7	527.7	525.9	531.1	534.6	536.3	538.1	536.3
115°	576.4	583.4	590.3	597.3	597.3	600.8	607.8	609.4	609.4	613.0
117.5°	640.8	649.5	656.5	663.5	665.2	668.7	673.9	679.1	679.1	682.6
120°	703.5	714.0	721.0	727.9	731.4	733.2	738.4	745.3	745.3	745.3
122.5°	762.7	771.4	780.1	787.1	790.5	794.1	797.5	806.3	806.3	809.7
125°	818.5	828.9	837.6	844.6	848.0	851.6	858.5	863.8	865.4	865.4
127.5°	870.7	881.1	889.9	898.5	900.3	903.8	910.7	917.7	919.5	921.1
130°	919.5	929.9	938.6	947.3	950.8	952.5	961.2	966.4	970.0	971.7
132.5°	963.0	973.4	982.2	990.8	994.3	997.8	1003.0	1011.7	1013.5	1013.5
135°	1003.0	1013.5	1022.2	1032.7	1034.3	1037.9	1044.9	1050.1	1053.5	1055.3
137.5°	1039.6	1050.1	1060.5	1069.2	1072.7	1074.4	1081.4	1088.4	1091.8	1093.6
140°	1072.7	1083.2	1093.6	1100.6	1102.2	1107.5	1112.8	1119.7	1123.2	1124.9
142.5°	1104.0	1112.8	1121.4	1130.2	1131.9	1135.4	1140.6	1147.5	1151.1	1152.8
145°	1131.9	1140.6	1147.5	1154.5	1156.3	1159.7	1164.9	1170.2	1173.7	1175.4
147.5°	1158.1	1164.9	1171.9	1177.1	1178.9	1182.4	1185.9	1189.4	1192.8	1194.6
150°	1180.7	1184.1	1191.1	1194.6	1196.3	1199.8	1203.3	1206.8	1210.2	1212.0
152.5°	1198.1	1203.3	1206.8	1212.0	1213.8	1215.4	1219.0	1222.4	1226.0	1226.0
155°	1212.0	1217.2	1220.7	1226.0	1227.6	1229.4	1232.9	1234.6	1238.1	1238.1
157.5°	1222.4	1227.6	1231.2	1234.6	1236.4	1238.1	1239.8	1243.4	1246.8	1246.8
160°	1234.6	1236.4	1238.1	1241.6	1241.6	1243.4	1245.1	1246.8	1250.3	1250.3
162.5°	1245.1	1246.8	1243.4	1245.1	1243.4	1245.1	1246.8	1248.6	1250.3	1250.3
165°	1248.6	1252.1	1250.3	1252.1	1252.1	1252.1	1252.1	1253.8	1253.8	1253.8
167.5°	1248.6	1252.1	1250.3	1250.3	1252.1	1252.1	1253.8	1255.5	1255.5	1255.5
170°	1248.6	1250.3	1248.6	1246.8	1248.6	1248.6	1248.6	1250.3	1250.3	1250.3
172.5°	1246.8	1248.6	1245.1	1243.4	1243.4	1243.4	1241.6	1241.6	1239.8	1239.8
175°	1245.1	1245.1	1241.6	1239.8	1239.8	1239.8	1236.4	1234.6	1232.9	1231.2
177.5°	1243.4	1243.4	1238.1	1236.4	1236.4	1234.6	1234.6	1231.2	1231.2	1229.4
180°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8

(END OF REPORT)