

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: P395035

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

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-CL-80L940-1D-UNV-STD-W-4  
Description: CORELITE I3, CLEAR TOP COVER  
8000 LUMENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

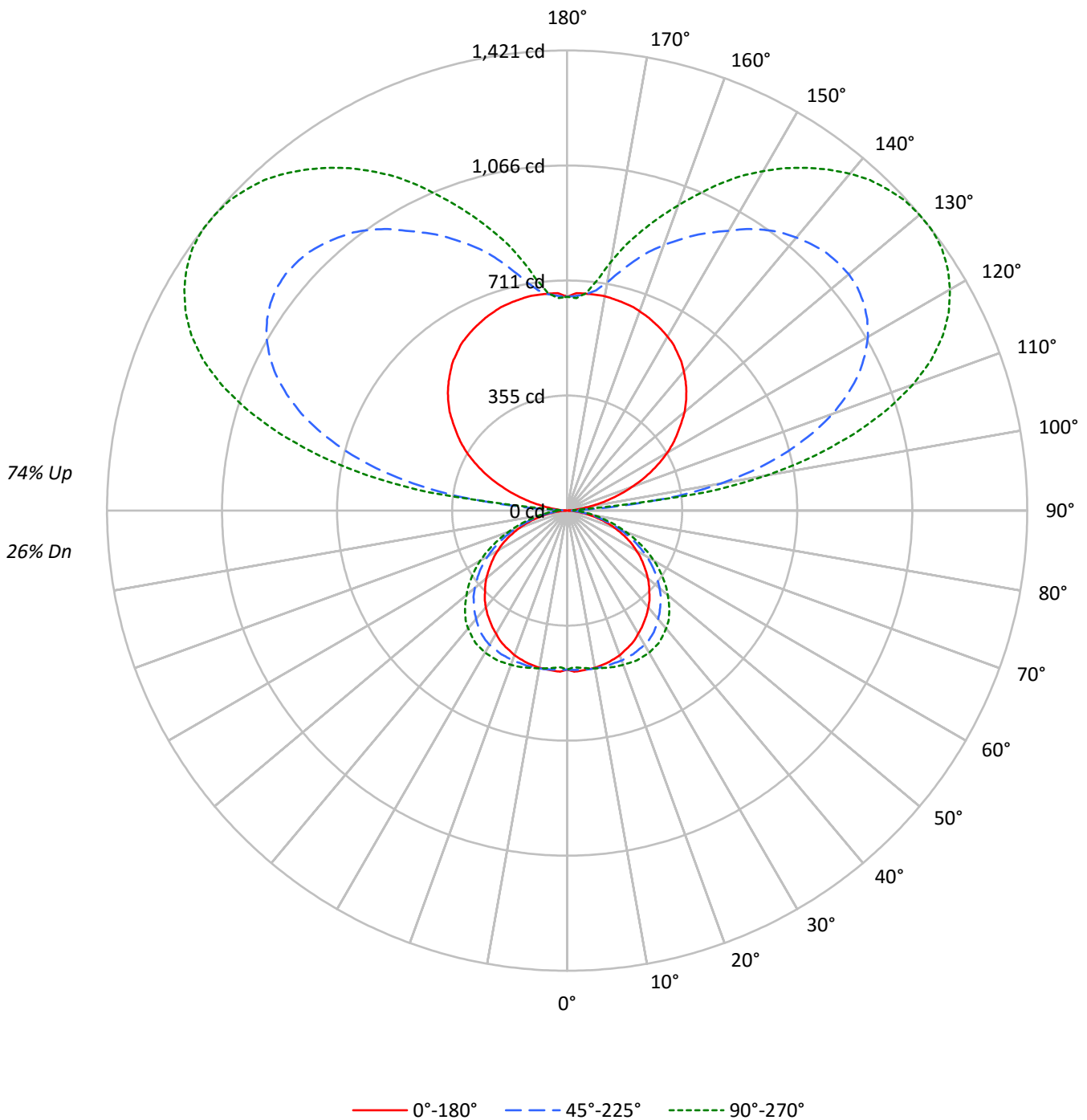
Lumens per Lamp: N/A  
Luminaire Lumens: 6471.2 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2699	2699	2699
5°	2728	2657	2614
10°	2730	2637	2607
15°	2733	2627	2620
20°	2738	2628	2644
25°	2734	2631	2678
30°	2719	2635	2697
35°	2712	2620	2700
40°	2703	2564	2666
45°	2675	2502	2599
50°	2651	2420	2483
55°	2595	2298	2340
60°	2531	2137	2160
65°	2428	1919	1915
70°	2255	1634	1621
75°	1946	1300	1302
80°	1510	923	954
85°	887	572	639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.0	0.7
10°-20°	139.6	2.2
20°-30°	223.8	3.5
30°-40°	286.2	4.4
40°-50°	312.1	4.8
50°-60°	292.4	4.5
60°-70°	226.9	3.5
70°-80°	130.0	2.0
80°-90°	41.6	0.6
90°-100°	166.9	2.6
100°-110°	648.8	10.0
110°-120°	883.3	13.6
120°-130°	916.9	14.2
130°-140°	813.3	12.6
140°-150°	631.1	9.8
150°-160°	421.2	6.5
160°-170°	224.5	3.5
170°-180°	65.7	1.0
0°-30°	410.4	6.3
0°-40°	696.6	10.8
0°-60°	1301.1	20.1
0°-90°	1699.6	26.3
90°-120°	1699.0	26.3
90°-150°	4060.3	62.7
90°-180°	4772.0	73.7
0°-180°	6471.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	496	491	493	491	488	47
15°	486	484	495	502	502	137
25°	460	463	488	505	510	212
35°	416	425	463	488	496	261
45°	359	374	408	434	446	277
55°	287	303	331	354	360	257
65°	204	212	232	247	252	201
75°	106	111	122	134	138	113
85°	21	24	37	47	49	25
90°	2	5	12	17	21	2
95°	21	118	162	33	31	27
105°	138	416	705	838	918	147
115°	287	643	993	1167	1280	283
125°	416	758	1118	1313	1412	372
135°	521	798	1128	1323	1402	401
145°	594	798	1059	1229	1292	372
155°	639	754	939	1064	1113	295
165°	665	693	798	872	895	188
175°	672	669	670	674	674	64
180°	660	660	660	660	660	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0
2.5°	498.0	496.3	496.3	492.8	492.8	491.0	491.0	491.0	491.0	491.0	492.8
5°	496.3	496.3	494.6	492.8	492.8	491.0	491.0	491.0	491.0	491.0	492.8
7.5°	494.6	494.6	492.8	491.0	491.0	491.0	491.0	491.0	491.0	491.0	494.6
10°	492.8	492.8	491.0	489.4	489.4	489.4	489.4	491.0	491.0	491.0	494.6
12.5°	489.4	487.6	487.6	485.8	485.8	485.8	487.6	487.6	489.4	491.0	494.6
15°	485.8	485.8	484.1	482.4	484.1	484.1	484.1	485.8	487.6	489.4	494.6
17.5°	480.6	480.6	478.9	478.9	478.9	480.6	480.6	482.4	485.8	489.4	492.8
20°	475.4	473.6	473.6	473.6	475.4	475.4	477.2	480.6	482.4	487.6	492.8
22.5°	466.7	468.4	466.7	466.7	468.4	470.2	471.9	475.4	478.9	484.1	489.4
25°	459.7	459.7	459.7	459.7	463.2	463.2	466.7	470.2	475.4	480.6	487.6
27.5°	451.0	451.0	451.0	452.7	454.5	456.2	458.0	463.2	468.4	475.4	482.4
30°	438.9	438.9	438.9	438.9	444.1	445.8	449.3	456.2	461.5	470.2	478.9
32.5°	428.3	428.3	428.3	430.1	433.6	435.3	438.9	447.5	454.5	463.2	471.9
35°	416.2	416.2	417.9	417.9	423.1	424.9	428.3	435.3	442.3	452.7	463.2
37.5°	404.0	404.0	405.7	407.5	410.9	414.5	417.9	424.9	431.9	440.5	451.0
40°	390.1	390.1	391.8	393.6	398.8	402.3	405.7	412.7	419.7	428.3	437.1
42.5°	376.2	376.2	377.8	379.6	384.8	388.3	391.8	400.5	407.5	416.2	423.1
45°	358.8	360.4	362.2	365.7	370.9	374.4	377.8	384.8	393.6	400.5	407.5
47.5°	343.0	344.8	346.6	350.0	355.2	358.8	362.2	369.2	376.2	383.1	391.8
50°	325.7	327.4	329.1	332.6	337.8	341.3	344.8	351.8	358.8	364.0	372.6
52.5°	306.5	308.3	309.9	313.5	320.4	322.1	325.7	332.6	337.8	344.8	351.8
55°	287.3	289.1	290.8	294.3	299.5	303.0	304.7	311.7	316.9	323.9	330.9
57.5°	268.2	269.9	271.6	275.1	278.6	282.1	283.9	289.1	296.1	301.3	308.3
60°	247.2	249.0	250.8	252.5	257.7	259.4	261.2	266.4	271.6	278.6	283.9
62.5°	226.4	226.4	228.1	229.8	235.1	236.8	238.6	242.0	249.0	252.5	257.7
65°	203.7	203.7	205.5	207.2	210.7	212.4	214.2	217.7	222.9	226.4	231.6
67.5°	179.3	179.3	181.1	182.9	186.3	188.1	188.1	193.3	196.7	200.3	203.7
70°	156.7	156.7	158.5	158.5	160.2	161.9	163.7	167.2	168.9	174.1	175.9
72.5°	132.4	132.4	132.4	132.4	135.8	135.8	137.6	141.0	142.8	146.3	149.8
75°	106.2	106.2	108.0	108.0	109.7	111.4	113.2	115.0	118.4	120.2	121.9
77.5°	83.6	81.9	83.6	85.3	87.1	87.1	88.8	90.5	92.3	95.8	97.5
80°	59.2	59.2	59.2	60.9	62.7	62.7	64.5	66.1	67.9	71.4	73.1
82.5°	38.3	38.3	40.1	40.1	41.8	43.5	43.5	45.3	47.0	50.5	52.3
85°	20.9	20.9	20.9	22.6	24.4	24.4	26.1	27.9	31.3	33.1	36.6
87.5°	7.0	7.0	8.7	10.4	12.2	12.2	14.0	15.6	17.4	20.9	22.6
90°	1.8	1.8	1.8	3.4	3.4	5.2	5.2	7.0	8.7	10.4	12.2
92.5°	7.0	12.2	19.2	27.9	26.1	27.9	19.2	12.2	12.2	12.2	14.0
95°	20.9	31.3	50.5	80.1	104.5	118.4	130.6	142.8	167.2	168.9	161.9
97.5°	41.8	57.5	92.3	130.6	174.1	196.7	214.2	250.8	289.1	313.5	343.0
100°	69.7	92.3	137.6	189.8	240.4	269.9	297.7	350.0	397.0	438.9	484.1
102.5°	102.8	128.8	184.5	249.0	311.7	344.8	374.4	435.3	499.8	555.5	604.2
105°	137.6	167.2	233.4	306.5	377.8	416.2	452.7	518.9	586.8	647.8	705.3
107.5°	175.9	207.2	278.6	360.4	440.5	484.1	524.1	595.6	666.9	733.2	794.1
110°	212.4	247.2	322.1	410.9	501.5	545.1	585.1	663.5	738.4	808.0	872.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	250.8	287.3	362.2	459.7	552.1	597.3	639.1	722.6	801.1	872.4	936.9
115°	287.3	322.1	400.5	501.5	595.6	642.6	687.9	773.2	855.0	926.4	992.6
117.5°	322.1	355.2	435.3	536.3	633.8	680.9	726.2	814.9	896.8	971.7	1036.1
120°	357.0	386.6	473.6	565.9	665.2	712.2	759.2	848.0	931.7	1006.5	1072.7
122.5°	388.3	416.2	501.5	592.1	689.6	738.4	783.7	874.2	959.5	1034.3	1098.8
125°	416.2	442.3	527.7	613.0	710.5	757.5	804.5	893.3	978.6	1051.8	1118.0
127.5°	444.1	470.2	546.8	633.8	724.4	773.2	818.5	907.3	990.8	1065.7	1130.2
130°	473.6	492.8	565.9	653.0	738.4	783.7	830.6	915.9	997.8	1070.9	1135.4
132.5°	498.0	515.4	585.1	668.7	748.8	792.3	834.1	919.5	1001.3	1070.9	1133.6
135°	520.7	534.6	599.0	682.6	757.5	797.5	837.6	917.7	997.8	1067.5	1128.4
137.5°	541.5	555.5	611.2	693.1	764.5	799.3	837.6	912.5	989.1	1058.7	1116.2
140°	560.7	571.2	621.6	698.3	767.9	801.1	834.1	903.8	975.2	1043.1	1100.6
142.5°	579.9	588.6	630.4	701.8	769.7	801.1	832.4	893.3	959.5	1025.7	1083.2
145°	593.8	602.6	637.3	703.5	767.9	797.5	825.4	882.9	942.1	1003.0	1058.7
147.5°	609.4	616.4	644.3	700.0	762.7	790.5	816.7	869.0	922.9	978.6	1030.9
150°	620.0	626.9	647.8	696.5	754.0	780.1	806.3	855.0	903.8	952.5	997.8
152.5°	630.4	635.6	653.0	691.3	743.6	767.9	792.3	839.4	884.6	928.1	968.2
155°	639.1	644.3	656.5	687.9	731.4	754.0	776.7	821.9	863.8	902.1	938.6
157.5°	647.8	651.3	660.0	682.6	717.4	738.4	759.2	799.3	837.6	875.9	905.5
160°	654.7	656.5	663.5	680.9	705.3	721.0	740.0	776.7	811.5	844.6	872.4
162.5°	661.7	661.7	666.9	677.4	694.8	705.3	719.2	750.6	781.9	811.5	837.6
165°	665.2	665.2	668.7	675.7	686.1	693.1	701.8	722.6	747.0	773.2	797.5
167.5°	668.7	668.7	670.5	673.9	680.9	684.3	687.9	701.8	717.4	736.6	755.8
170°	672.1	670.5	670.5	673.9	675.7	677.4	679.1	686.1	693.1	705.3	715.7
172.5°	672.1	670.5	670.5	672.1	672.1	672.1	672.1	673.9	675.7	682.6	686.1
175°	672.1	670.5	670.5	670.5	670.5	668.7	668.7	668.7	668.7	668.7	670.5
177.5°	672.1	670.5	668.7	668.7	666.9	666.9	665.2	665.2	663.5	663.5	663.5
180°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0
2.5°	492.8	492.8	491.0	491.0	489.4	489.4	487.6	485.8	484.1	484.1
5°	494.6	492.8	491.0	491.0	491.0	489.4	489.4	489.4	487.6	487.6
7.5°	494.6	494.6	494.6	492.8	492.8	492.8	492.8	492.8	491.0	491.0
10°	496.3	496.3	496.3	496.3	496.3	496.3	496.3	494.6	494.6	494.6
12.5°	496.3	496.3	496.3	498.0	498.0	498.0	498.0	498.0	498.0	498.0
15°	498.0	498.0	499.8	499.8	501.5	501.5	503.2	503.2	503.2	501.5
17.5°	496.3	498.0	499.8	501.5	503.2	503.2	505.0	505.0	505.0	505.0
20°	496.3	499.8	501.5	503.2	505.0	505.0	506.8	508.5	508.5	506.8
22.5°	494.6	498.0	499.8	503.2	505.0	505.0	508.5	508.5	508.5	508.5
25°	492.8	496.3	499.8	503.2	505.0	505.0	508.5	508.5	510.2	510.2
27.5°	489.4	492.8	498.0	501.5	503.2	505.0	506.8	508.5	508.5	508.5
30°	484.1	489.4	494.6	498.0	499.8	501.5	503.2	505.0	506.8	506.8
32.5°	477.2	482.4	487.6	492.8	494.6	496.3	499.8	501.5	501.5	501.5
35°	470.2	475.4	480.6	485.8	487.6	489.4	492.8	494.6	496.3	496.3
37.5°	459.7	465.0	470.2	475.4	477.2	480.6	484.1	485.8	485.8	485.8
40°	444.1	452.7	459.7	465.0	466.7	470.2	471.9	475.4	475.4	475.4
42.5°	430.1	437.1	442.3	449.3	451.0	456.2	459.7	461.5	463.2	463.2
45°	414.5	421.5	426.7	431.9	433.6	437.1	440.5	442.3	444.1	445.8
47.5°	398.8	404.0	409.2	414.5	416.2	419.7	423.1	424.9	426.7	426.7
50°	379.6	384.8	390.1	395.3	397.0	400.5	402.3	404.0	405.7	405.7
52.5°	358.8	364.0	369.2	374.4	376.2	377.8	381.4	383.1	384.8	384.8
55°	337.8	343.0	346.6	351.8	353.5	355.2	357.0	360.4	362.2	360.4
57.5°	313.5	318.7	322.1	327.4	329.1	330.9	332.6	334.3	336.1	336.1
60°	287.3	292.5	297.7	301.3	303.0	304.7	306.5	308.3	309.9	309.9
62.5°	261.2	266.4	269.9	275.1	276.9	276.9	278.6	280.4	282.1	282.1
65°	235.1	240.4	242.0	247.2	247.2	249.0	250.8	252.5	252.5	252.5
67.5°	207.2	212.4	214.2	217.7	217.7	219.4	221.2	222.9	222.9	222.9
70°	181.1	182.9	186.3	188.1	189.8	189.8	191.5	193.3	195.1	193.3
72.5°	153.2	155.0	158.5	160.2	160.2	161.9	161.9	163.7	165.5	165.5
75°	125.4	128.8	130.6	132.4	134.1	134.1	135.8	137.6	137.6	137.6
77.5°	99.2	102.8	104.5	106.2	108.0	108.0	109.7	109.7	111.4	109.7
80°	76.6	78.3	80.1	81.9	83.6	83.6	85.3	87.1	87.1	87.1
82.5°	55.7	57.5	60.9	62.7	62.7	62.7	66.1	66.1	67.9	66.1
85°	38.3	40.1	43.5	45.3	47.0	47.0	47.0	48.7	50.5	48.7
87.5°	24.4	27.9	29.6	31.3	31.3	31.3	33.1	34.8	34.8	34.8
90°	14.0	14.0	15.6	17.4	17.4	19.2	19.2	20.9	20.9	20.9
92.5°	14.0	15.6	15.6	15.6	17.4	17.4	17.4	19.2	19.2	19.2
95°	118.4	85.3	48.7	38.3	33.1	33.1	31.3	33.1	31.3	31.3
97.5°	358.8	388.3	402.3	421.5	431.9	430.1	423.1	430.1	424.9	430.1
100°	510.2	538.1	558.9	564.2	574.7	579.9	599.0	613.0	620.0	628.6
102.5°	633.8	666.9	691.3	705.3	715.7	722.6	745.3	766.2	776.7	783.7
105°	747.0	781.9	811.5	825.4	837.6	844.6	869.0	893.3	909.0	917.7
107.5°	837.6	877.6	909.0	929.9	942.1	954.3	983.8	1008.3	1027.4	1036.1
110°	919.5	959.5	992.6	1017.0	1030.9	1043.1	1076.2	1104.0	1124.9	1135.4





TEST NUMBER: P395035

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	987.4	1030.9	1064.0	1090.1	1104.0	1121.4	1152.8	1184.1	1205.0	1217.2
115°	1043.1	1088.4	1123.2	1151.1	1166.7	1182.4	1219.0	1250.3	1271.2	1279.9
117.5°	1090.1	1135.4	1171.9	1199.8	1217.2	1234.6	1271.2	1299.1	1321.7	1328.7
120°	1128.4	1173.7	1210.2	1241.6	1259.0	1274.7	1309.5	1339.2	1360.0	1365.2
122.5°	1154.5	1201.6	1239.8	1274.7	1290.3	1306.0	1339.2	1368.7	1387.9	1393.1
125°	1173.7	1222.4	1260.7	1297.3	1313.0	1328.7	1360.0	1389.6	1405.3	1412.3
127.5°	1185.9	1234.6	1276.5	1311.3	1328.7	1342.6	1373.9	1400.1	1415.7	1420.9
130°	1189.4	1239.8	1281.7	1318.2	1333.9	1347.8	1377.4	1403.5	1417.5	1420.9
132.5°	1189.4	1238.1	1281.7	1316.5	1332.2	1346.0	1373.9	1398.3	1412.3	1415.7
135°	1182.4	1229.4	1272.9	1307.8	1323.4	1337.4	1365.2	1386.1	1400.1	1401.9
137.5°	1170.2	1215.4	1257.3	1292.1	1307.8	1321.7	1346.0	1368.7	1380.9	1384.4
140°	1154.5	1196.3	1238.1	1271.2	1286.9	1299.1	1323.4	1342.6	1354.8	1358.2
142.5°	1133.6	1175.4	1213.8	1246.8	1259.0	1272.9	1293.9	1313.0	1323.4	1327.0
145°	1111.0	1151.1	1185.9	1215.4	1229.4	1241.6	1260.7	1278.1	1288.7	1292.1
147.5°	1081.4	1121.4	1154.5	1182.4	1194.6	1206.8	1224.2	1239.8	1250.3	1253.8
150°	1044.9	1081.4	1116.2	1142.3	1154.5	1166.7	1184.1	1198.1	1208.5	1210.2
152.5°	1008.3	1043.1	1072.7	1098.8	1111.0	1123.2	1138.9	1152.8	1164.9	1164.9
155°	973.4	1003.0	1030.9	1053.5	1064.0	1074.4	1090.1	1102.2	1112.8	1112.8
157.5°	936.9	964.8	987.4	1008.3	1017.0	1025.7	1039.6	1050.1	1058.7	1057.0
160°	902.1	922.9	943.8	961.2	970.0	977.0	987.4	996.0	1004.8	1003.0
162.5°	863.8	882.9	900.3	912.5	919.5	924.7	935.1	943.8	949.0	949.0
165°	820.2	837.6	853.2	865.4	872.4	875.9	884.6	889.9	895.1	895.1
167.5°	774.9	788.9	802.7	813.2	820.2	823.7	832.4	835.8	842.8	841.1
170°	729.6	740.0	750.6	759.2	762.7	766.2	773.2	776.7	780.1	780.1
172.5°	693.1	696.5	701.8	708.8	708.8	710.5	714.0	715.7	717.4	717.4
175°	672.1	673.9	673.9	673.9	673.9	673.9	675.7	673.9	675.7	673.9
177.5°	663.5	663.5	661.7	661.7	660.0	661.7	660.0	658.3	658.3	656.5
180°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0

(END OF REPORT)