

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: P393816

Luminaire Tested: **I3-FL-60L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393816
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-60L840-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
6000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5655.7 lumens
Efficiency: N/A
Efficacy: 136.9 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

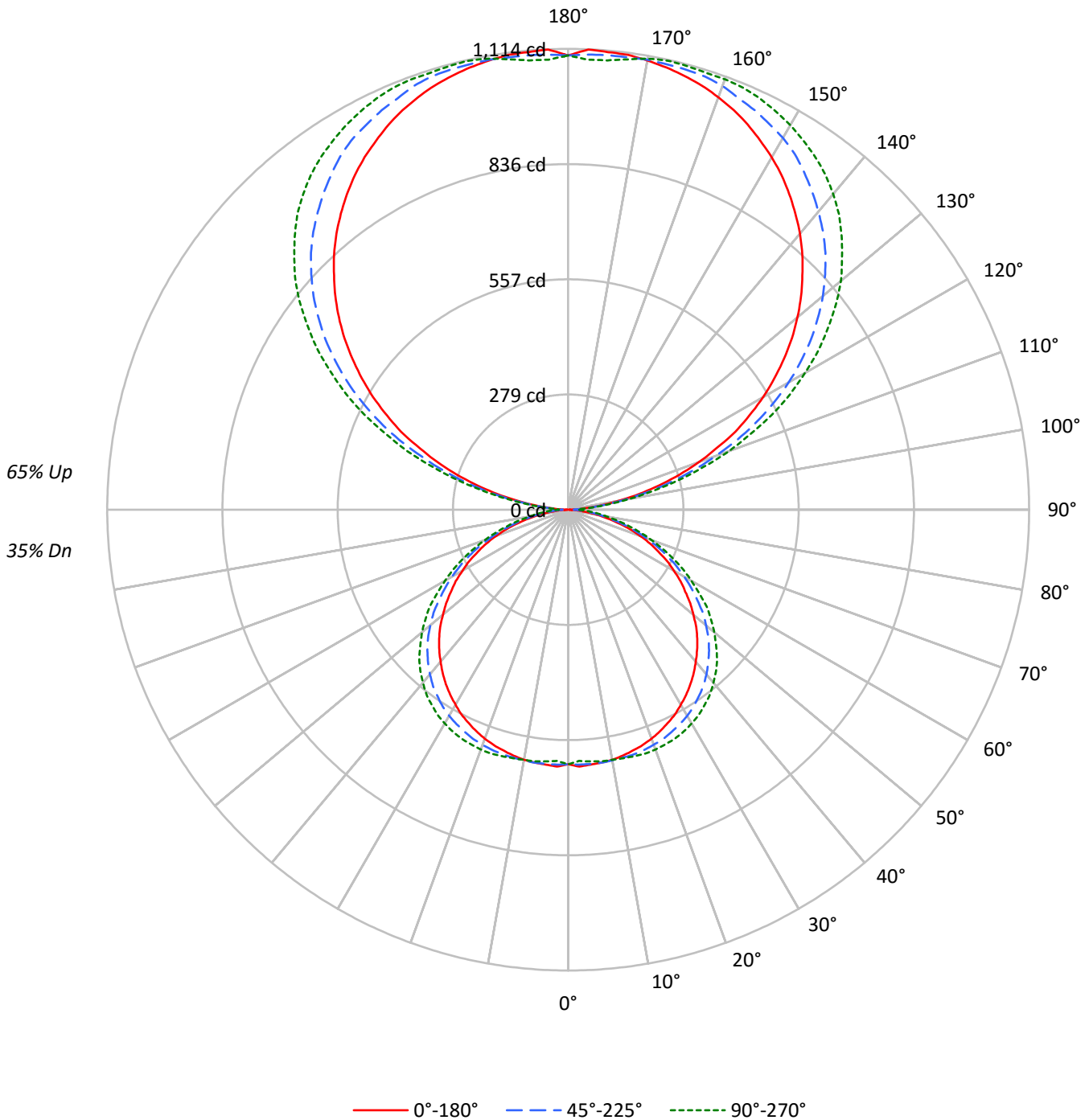
Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3383	3383	3383
5°	3400	3326	3274
10°	3400	3281	3236
15°	3393	3253	3223
20°	3394	3224	3218
25°	3384	3195	3205
30°	3372	3166	3177
35°	3356	3115	3130
40°	3323	3049	3061
45°	3289	2955	2967
50°	3213	2824	2822
55°	3121	2646	2653
60°	3016	2438	2397
65°	2868	2184	2129
70°	2663	1862	1798
75°	2318	1480	1430
80°	1808	1052	1047
85°	980	603	687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.0
10°-20°	172.6	3.1
20°-30°	272.1	4.8
30°-40°	342.0	6.0
40°-50°	367.7	6.5
50°-60°	338.3	6.0
60°-70°	259.2	4.6
70°-80°	147.6	2.6
80°-90°	46.1	0.8
90°-100°	61.6	1.1
100°-110°	268.0	4.7
110°-120°	490.7	8.7
120°-130°	632.5	11.2
130°-140°	673.0	11.9
140°-150°	619.2	10.9
150°-160°	490.5	8.7
160°-170°	310.6	5.5
170°-180°	105.2	1.9
0°-30°	503.4	8.9
0°-40°	845.4	14.9
0°-60°	1551.4	27.4
0°-90°	2004.2	35.4
90°-120°	820.4	14.5
90°-150°	2745.1	48.5
90°-180°	3651.0	64.6
0°-180°	5655.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	618	612	617	614	611	59
15°	603	600	612	617	617	170
25°	569	571	592	606	611	263
35°	515	521	551	569	575	322
45°	441	452	481	501	509	340
55°	346	359	381	401	409	310
65°	241	248	264	276	281	239
75°	126	130	139	146	151	134
85°	23	29	39	49	52	29
90°	2	5	14	20	23	3
95°	42	40	45	51	52	52
105°	227	238	256	271	276	241
115°	446	466	503	529	543	437
125°	637	665	716	751	766	569
135°	800	827	879	916	935	618
145°	932	952	995	1024	1041	583
155°	1027	1040	1066	1087	1097	473
165°	1086	1086	1101	1109	1110	307
175°	1110	1103	1103	1098	1090	106
180°	1098	1098	1098	1098	1098	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4
2.5°	621.5	620.0	618.5	615.4	615.4	613.8	613.8	613.8	613.8	615.4	616.9
5°	618.5	618.5	616.9	613.8	613.8	612.3	612.3	613.8	612.3	613.8	616.9
7.5°	616.9	616.9	615.4	612.3	612.3	612.3	612.3	612.3	612.3	613.8	616.9
10°	613.8	613.8	610.7	609.2	609.2	609.2	609.2	610.7	610.7	612.3	615.4
12.5°	609.2	607.7	606.1	604.6	604.6	604.6	606.1	607.7	607.7	610.7	613.8
15°	603.0	603.0	601.5	599.9	599.9	599.9	601.5	603.0	604.6	607.7	612.3
17.5°	596.9	596.9	595.3	595.3	595.3	595.3	596.9	598.4	601.5	604.6	609.2
20°	589.2	589.2	587.6	587.6	587.6	589.2	589.2	592.2	595.3	599.9	604.6
22.5°	579.9	579.9	579.9	578.4	579.9	581.4	583.0	586.1	589.2	593.8	599.9
25°	569.1	569.1	569.1	569.1	570.6	570.6	573.7	576.8	579.9	586.1	592.2
27.5°	558.3	558.3	558.3	556.8	559.8	561.4	562.9	567.6	570.6	578.4	584.5
30°	544.4	544.4	544.4	546.0	547.5	549.1	552.1	556.8	559.8	567.6	575.3
32.5°	530.5	530.5	530.5	530.5	535.2	536.7	538.3	542.9	549.1	556.8	564.5
35°	515.1	515.1	515.1	516.7	519.7	521.3	524.4	529.0	535.2	542.9	550.6
37.5°	498.2	499.7	499.7	501.2	504.3	507.4	510.5	515.1	521.3	529.0	536.7
40°	479.6	481.2	481.2	482.7	485.8	488.9	492.0	498.2	504.3	512.0	519.7
42.5°	461.1	462.7	462.7	465.8	468.9	471.9	475.0	481.2	487.4	495.1	501.2
45°	441.1	442.6	442.6	445.7	450.3	451.9	456.5	462.7	468.9	475.0	481.2
47.5°	419.5	421.0	421.0	424.1	428.8	431.8	434.9	441.1	445.7	453.4	459.6
50°	394.8	396.4	397.9	401.0	407.2	410.2	413.3	418.0	424.1	428.8	434.9
52.5°	371.7	371.7	373.2	376.3	380.9	384.0	385.6	390.2	397.9	404.1	410.2
55°	345.5	347.0	348.6	351.6	356.3	359.4	360.9	365.5	370.1	374.8	380.9
57.5°	322.3	322.3	323.9	327.0	331.6	333.1	334.7	337.8	343.9	348.6	353.2
60°	294.6	296.1	297.7	300.7	303.8	306.9	306.9	311.5	316.2	320.8	323.9
62.5°	269.9	269.9	271.4	274.5	276.1	279.2	279.2	283.8	286.9	291.5	294.6
65°	240.6	242.1	243.7	245.2	248.3	248.3	249.8	252.9	256.0	259.1	263.7
67.5°	214.4	214.4	215.9	217.5	219.0	219.0	220.5	223.6	226.7	229.8	232.9
70°	185.1	186.6	186.6	186.6	188.2	189.7	191.2	192.8	195.9	197.4	200.5
72.5°	155.8	155.8	157.3	157.3	158.9	160.4	161.9	163.5	165.0	168.1	169.7
75°	126.5	126.5	128.0	128.0	129.6	129.6	129.6	132.6	134.2	137.3	138.8
77.5°	97.2	98.7	98.7	98.7	100.2	101.8	101.8	103.3	106.4	108.0	109.5
80°	70.9	70.9	70.9	70.9	72.5	74.0	75.6	75.6	78.7	81.7	83.3
82.5°	44.7	44.7	46.3	47.8	47.8	49.4	50.9	52.4	55.5	57.1	58.6
85°	23.1	23.1	24.7	26.2	27.8	29.3	29.3	30.8	33.9	37.0	38.6
87.5°	7.7	9.3	9.3	10.8	12.3	13.9	15.4	17.0	20.0	23.1	24.7
90°	1.5	1.5	1.5	3.1	4.6	4.6	6.2	7.7	9.3	10.8	13.9
92.5°	13.9	13.9	12.3	13.9	13.9	13.9	13.9	15.4	17.0	17.0	20.0
95°	41.6	40.1	40.1	40.1	40.1	40.1	40.1	41.6	43.2	43.2	44.7
97.5°	80.2	80.2	78.7	78.7	80.2	80.2	80.2	81.7	84.8	83.3	86.4
100°	124.9	124.9	123.4	124.9	126.5	128.0	131.1	131.1	134.2	134.2	138.8
102.5°	175.8	175.8	174.3	177.4	178.9	182.0	182.0	185.1	189.7	189.7	195.9
105°	226.7	228.3	228.3	231.3	234.4	237.5	237.5	242.1	248.3	248.3	256.0
107.5°	282.2	283.8	283.8	286.9	289.9	293.0	294.6	300.7	306.9	308.5	317.7
110°	336.2	337.8	339.3	342.4	345.5	350.1	353.2	359.4	367.1	370.1	377.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	387.1	393.3	394.8	399.5	404.1	408.7	411.8	419.5	428.8	433.4	442.6
115°	445.7	448.8	450.3	455.0	461.1	465.8	468.9	476.6	485.8	492.0	502.8
117.5°	493.5	501.2	502.8	507.4	513.6	518.2	521.3	530.5	541.3	549.1	559.8
120°	544.4	550.6	556.8	559.8	564.5	570.6	573.7	583.0	595.3	603.0	615.4
122.5°	590.7	596.9	603.0	607.7	613.8	616.9	621.5	632.3	644.7	653.9	666.3
125°	637.0	644.7	649.3	653.9	661.6	664.7	669.3	680.1	692.5	703.3	715.6
127.5°	681.7	686.3	694.0	697.1	704.8	707.9	712.5	724.9	737.2	748.0	760.3
130°	723.3	729.5	735.7	737.2	746.5	751.1	755.7	766.5	780.4	791.2	803.5
132.5°	763.4	766.5	774.2	778.9	786.6	791.2	795.8	805.1	819.0	829.7	842.1
135°	800.4	803.5	812.8	817.4	822.0	826.7	832.8	842.1	856.0	866.8	879.1
137.5°	837.5	840.5	849.8	854.4	857.5	862.1	866.8	876.0	889.9	900.7	911.5
140°	871.4	874.5	880.6	886.8	889.9	893.0	897.6	906.9	919.2	930.0	940.8
142.5°	902.2	905.3	911.5	917.7	922.3	922.3	926.9	934.6	948.5	959.3	968.6
145°	931.5	933.1	939.2	945.4	951.6	951.6	953.1	960.8	973.2	985.5	994.8
147.5°	959.3	960.8	965.5	971.6	976.3	977.8	980.9	984.0	996.3	1008.7	1019.4
150°	984.0	985.5	988.6	994.8	997.9	1000.9	1004.0	1005.6	1014.8	1025.6	1038.0
152.5°	1005.6	1007.1	1010.2	1014.8	1017.9	1021.0	1024.1	1028.7	1033.3	1044.1	1051.8
155°	1027.2	1028.7	1030.2	1034.9	1038.0	1039.5	1041.0	1047.2	1051.8	1058.0	1065.7
157.5°	1045.7	1045.7	1047.2	1050.3	1053.4	1053.4	1054.9	1061.1	1065.7	1071.9	1076.5
160°	1061.1	1061.1	1062.6	1065.7	1065.7	1067.3	1068.8	1073.4	1076.5	1084.2	1090.4
162.5°	1075.0	1073.4	1075.0	1076.5	1076.5	1076.5	1078.1	1081.1	1085.8	1091.9	1098.1
165°	1085.8	1085.8	1085.8	1087.3	1087.3	1085.8	1085.8	1088.8	1091.9	1096.6	1101.2
167.5°	1095.0	1095.0	1093.5	1095.0	1093.5	1093.5	1091.9	1093.5	1095.0	1099.6	1102.7
170°	1102.7	1101.2	1101.2	1101.2	1099.6	1098.1	1098.1	1098.1	1098.1	1101.2	1104.3
172.5°	1108.9	1107.4	1105.8	1105.8	1102.7	1101.2	1101.2	1099.6	1099.6	1101.2	1102.7
175°	1110.4	1108.9	1107.4	1107.4	1104.3	1102.7	1101.2	1101.2	1099.6	1101.2	1102.7
177.5°	1113.5	1112.0	1108.9	1108.9	1105.8	1102.7	1102.7	1101.2	1099.6	1101.2	1101.2
180°	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4
2.5°	618.5	618.5	616.9	615.4	615.4	613.8	612.3	610.7	609.2	607.7
5°	618.5	616.9	615.4	615.4	613.8	613.8	613.8	612.3	610.7	610.7
7.5°	618.5	618.5	616.9	615.4	615.4	615.4	615.4	615.4	613.8	613.8
10°	618.5	616.9	616.9	616.9	615.4	616.9	616.9	615.4	615.4	613.8
12.5°	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	615.4
15°	613.8	615.4	615.4	616.9	616.9	616.9	618.5	618.5	616.9	616.9
17.5°	612.3	613.8	615.4	616.9	616.9	616.9	618.5	618.5	618.5	618.5
20°	609.2	610.7	612.3	613.8	613.8	615.4	615.4	616.9	616.9	616.9
22.5°	603.0	604.6	607.7	609.2	610.7	612.3	613.8	613.8	613.8	613.8
25°	596.9	599.9	601.5	604.6	606.1	607.7	609.2	609.2	609.2	610.7
27.5°	589.2	592.2	596.9	598.4	599.9	601.5	603.0	604.6	604.6	604.6
30°	579.9	584.5	587.6	590.7	592.2	593.8	595.3	595.3	596.9	596.9
32.5°	569.1	573.7	576.8	579.9	581.4	583.0	586.1	586.1	587.6	587.6
35°	555.2	559.8	564.5	567.6	569.1	570.6	573.7	575.3	575.3	575.3
37.5°	541.3	546.0	550.6	555.2	556.8	558.3	561.4	561.4	562.9	562.9
40°	524.4	529.0	533.6	538.3	538.3	541.3	542.9	544.4	546.0	546.0
42.5°	507.4	512.0	515.1	519.7	521.3	522.8	524.4	527.5	527.5	529.0
45°	487.4	492.0	495.1	499.7	501.2	502.8	505.9	507.4	509.0	509.0
47.5°	465.8	468.9	471.9	476.6	479.6	481.2	482.7	484.3	485.8	484.3
50°	441.1	444.2	448.8	453.4	455.0	456.5	459.6	459.6	461.1	461.1
52.5°	414.9	419.5	422.6	427.2	428.8	430.3	433.4	433.4	434.9	434.9
55°	385.6	388.7	391.7	399.5	401.0	402.5	405.6	405.6	407.2	408.7
57.5°	357.8	359.4	364.0	367.1	370.1	370.1	371.7	373.2	374.8	374.8
60°	328.5	330.0	333.1	337.8	337.8	339.3	342.4	342.4	343.9	343.9
62.5°	297.7	300.7	303.8	308.5	306.9	308.5	311.5	311.5	313.1	313.1
65°	266.8	268.4	271.4	274.5	276.1	276.1	277.6	279.2	280.7	280.7
67.5°	234.4	237.5	239.1	243.7	242.1	243.7	245.2	245.2	246.8	246.8
70°	203.6	205.1	208.2	209.8	209.8	211.3	212.8	212.8	212.8	214.4
72.5°	172.7	174.3	175.8	177.4	177.4	178.9	180.4	180.4	182.0	182.0
75°	140.3	143.4	145.0	148.1	146.5	148.1	151.1	151.1	151.1	151.1
77.5°	112.6	114.1	117.2	118.8	118.8	118.8	121.8	120.3	121.8	121.8
80°	84.8	86.4	89.5	91.0	91.0	92.5	94.1	94.1	94.1	95.6
82.5°	60.1	63.2	66.3	67.9	67.9	69.4	70.9	70.9	72.5	72.5
85°	41.6	44.7	47.8	47.8	49.4	50.9	52.4	52.4	52.4	52.4
87.5°	27.8	29.3	30.8	32.4	33.9	33.9	35.5	35.5	37.0	37.0
90°	15.4	17.0	18.5	20.0	20.0	21.6	21.6	23.1	23.1	23.1
92.5°	21.6	21.6	23.1	24.7	24.7	24.7	24.7	26.2	26.2	26.2
95°	46.3	47.8	47.8	50.9	50.9	50.9	52.4	52.4	52.4	52.4
97.5°	89.5	89.5	89.5	92.5	92.5	92.5	94.1	94.1	94.1	95.6
100°	140.3	141.9	141.9	146.5	145.0	148.1	148.1	148.1	148.1	149.6
102.5°	197.4	200.5	202.0	206.7	206.7	206.7	209.8	208.2	209.8	209.8
105°	259.1	262.2	263.7	268.4	271.4	271.4	274.5	273.0	274.5	276.1
107.5°	320.8	325.4	328.5	333.1	336.2	337.8	337.8	339.3	340.8	342.4
110°	384.0	388.7	396.4	401.0	402.5	405.6	407.2	408.7	410.2	413.3



TEST NUMBER: P393816

CATALOG NUMBER: I3-FL-60L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	450.3	455.0	461.1	467.3	465.8	470.4	473.5	475.0	476.6	475.0
115°	510.5	516.7	522.8	529.0	529.0	532.1	538.3	539.8	539.8	542.9
117.5°	567.6	575.3	581.4	587.6	589.2	592.2	596.9	601.5	601.5	604.6
120°	623.1	632.3	638.5	644.7	647.8	649.3	653.9	660.1	660.1	660.1
122.5°	675.5	683.2	690.9	697.1	700.2	703.3	706.4	714.1	714.1	717.2
125°	724.9	734.1	741.8	748.0	751.1	754.2	760.3	765.0	766.5	766.5
127.5°	771.1	780.4	788.1	795.8	797.4	800.4	806.6	812.8	814.3	815.9
130°	814.3	823.6	831.3	839.0	842.1	843.6	851.3	856.0	859.0	860.6
132.5°	852.9	862.1	869.8	877.6	880.6	883.7	888.4	896.1	897.6	897.6
135°	888.4	897.6	905.3	914.6	916.1	919.2	925.4	930.0	933.1	934.6
137.5°	920.7	930.0	939.2	947.0	950.0	951.6	957.8	963.9	967.0	968.6
140°	950.0	959.3	968.6	974.7	976.3	980.9	985.5	991.7	994.8	996.3
142.5°	977.8	985.5	993.2	1000.9	1002.5	1005.6	1010.2	1016.4	1019.4	1021.0
145°	1002.5	1010.2	1016.4	1022.5	1024.1	1027.2	1031.8	1036.4	1039.5	1041.0
147.5°	1025.6	1031.8	1038.0	1042.6	1044.1	1047.2	1050.3	1053.4	1056.5	1058.0
150°	1045.7	1048.8	1054.9	1058.0	1059.5	1062.6	1065.7	1068.8	1071.9	1073.4
152.5°	1061.1	1065.7	1068.8	1073.4	1075.0	1076.5	1079.6	1082.7	1085.8	1085.8
155°	1073.4	1078.1	1081.1	1085.8	1087.3	1088.8	1091.9	1093.5	1096.6	1096.6
157.5°	1082.7	1087.3	1090.4	1093.5	1095.0	1096.6	1098.1	1101.2	1104.3	1104.3
160°	1093.5	1095.0	1096.6	1099.6	1099.6	1101.2	1102.7	1104.3	1107.4	1107.4
162.5°	1102.7	1104.3	1101.2	1102.7	1101.2	1102.7	1104.3	1105.8	1107.4	1107.4
165°	1105.8	1108.9	1107.4	1108.9	1108.9	1108.9	1108.9	1110.4	1110.4	1110.4
167.5°	1105.8	1108.9	1107.4	1107.4	1108.9	1108.9	1110.4	1112.0	1112.0	1112.0
170°	1105.8	1107.4	1105.8	1104.3	1105.8	1105.8	1105.8	1107.4	1107.4	1107.4
172.5°	1104.3	1105.8	1102.7	1101.2	1101.2	1101.2	1099.6	1099.6	1098.1	1098.1
175°	1102.7	1102.7	1099.6	1098.1	1098.1	1098.1	1095.0	1093.5	1091.9	1090.4
177.5°	1101.2	1101.2	1096.6	1095.0	1095.0	1093.5	1093.5	1090.4	1090.4	1088.8
180°	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1

(END OF REPORT)