

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: P395046

Luminaire Tested: **I3-FL-50L935-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395046  
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-50L935-1D-UNV-STD-W-4  
Description: CORELITE I3, FROSTED TOP COVER  
5000 LUMENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

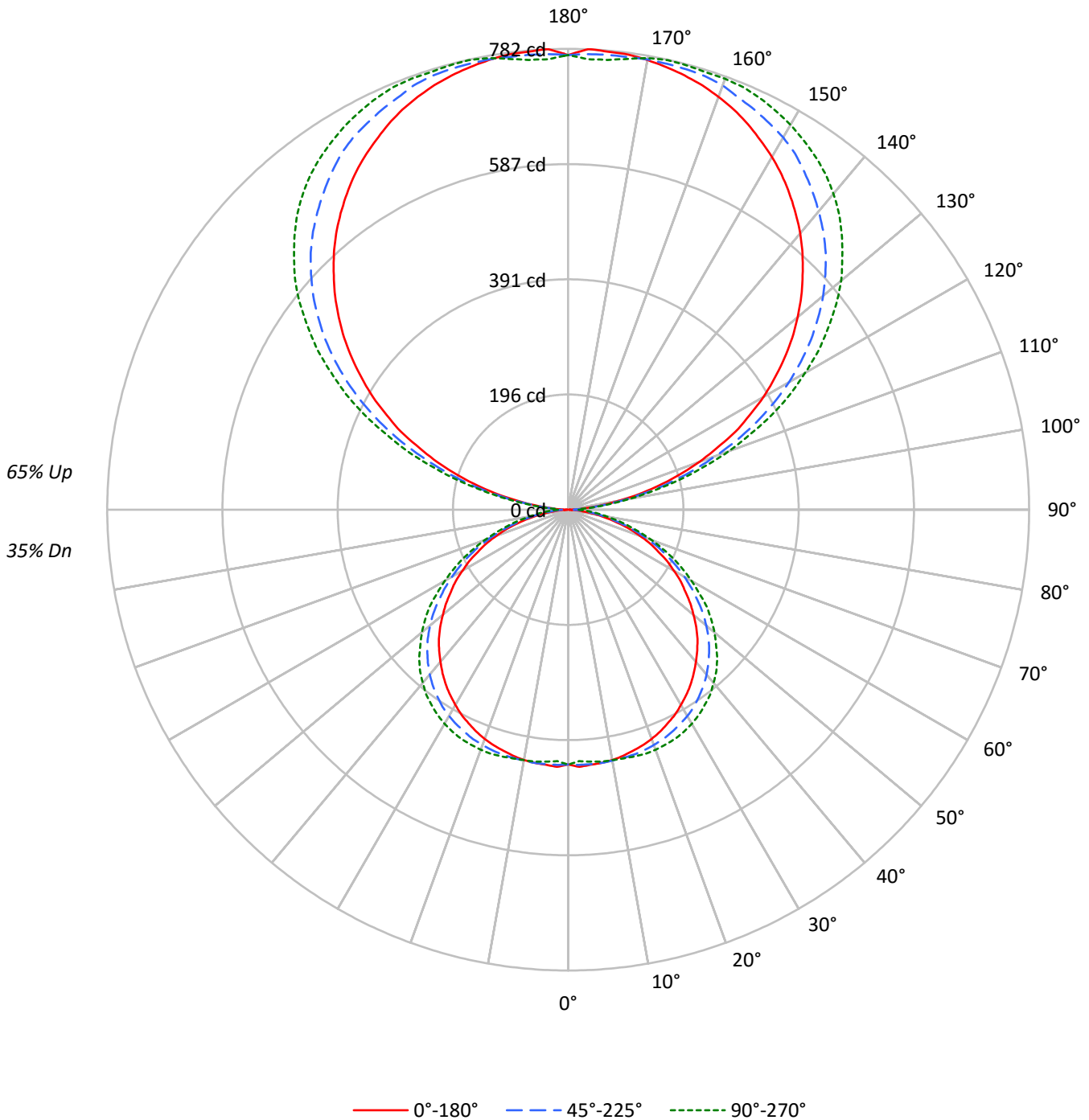
Lumens per Lamp: N/A  
Luminaire Lumens: 3974.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 33.5  
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°	2377	2377	2377
5°	2388	2337	2300
10°	2389	2305	2274
15°	2384	2285	2265
20°	2385	2266	2261
25°	2377	2245	2252
30°	2369	2224	2232
35°	2359	2188	2199
40°	2335	2143	2151
45°	2311	2076	2085
50°	2258	1985	1983
55°	2193	1859	1864
60°	2119	1713	1684
65°	2014	1535	1496
70°	1870	1309	1264
75°	1629	1041	1005
80°	1272	738	736
85°	692	423	484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.2	1.0
10°-20°	121.3	3.1
20°-30°	191.2	4.8
30°-40°	240.3	6.0
40°-50°	258.4	6.5
50°-60°	237.7	6.0
60°-70°	182.1	4.6
70°-80°	103.7	2.6
80°-90°	32.4	0.8
90°-100°	43.3	1.1
100°-110°	188.3	4.7
110°-120°	344.8	8.7
120°-130°	444.4	11.2
130°-140°	472.9	11.9
140°-150°	435.1	10.9
150°-160°	344.7	8.7
160°-170°	218.3	5.5
170°-180°	73.9	1.9
0°-30°	353.7	8.9
0°-40°	594.0	14.9
0°-60°	1090.1	27.4
0°-90°	1408.3	35.4
90°-120°	576.4	14.5
90°-150°	1928.8	48.5
90°-180°	2566.0	64.6
0°-180°	3974.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	434	430	434	431	429	41
15°	424	422	430	434	434	120
25°	400	401	416	426	429	184
35°	362	366	387	400	404	226
45°	310	318	338	352	358	239
55°	243	252	268	282	287	218
65°	169	174	185	194	197	168
75°	89	91	98	103	106	94
85°	16	21	27	35	37	20
90°	1	3	10	14	16	2
95°	29	28	31	36	37	37
105°	159	167	180	191	194	170
115°	313	327	353	372	381	307
125°	448	467	503	528	539	400
135°	562	581	618	644	657	434
145°	654	669	699	720	732	410
155°	722	730	749	764	770	333
165°	763	763	774	779	780	216
175°	780	775	775	772	766	74
180°	772	772	772	772	772	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4
2.5°	436.7	435.7	434.5	432.4	432.4	431.3	431.3	431.3	431.3	432.4	433.5
5°	434.5	434.5	433.5	431.3	431.3	430.2	430.2	431.3	430.2	431.3	433.5
7.5°	433.5	433.5	432.4	430.2	430.2	430.2	430.2	430.2	430.2	431.3	433.5
10°	431.3	431.3	429.1	428.1	428.1	428.1	428.1	429.1	429.1	430.2	432.4
12.5°	428.1	427.0	425.9	424.8	424.8	424.8	425.9	427.0	427.0	429.1	431.3
15°	423.7	423.7	422.7	421.5	421.5	421.5	422.7	423.7	424.8	427.0	430.2
17.5°	419.4	419.4	418.3	418.3	418.3	418.3	419.4	420.5	422.7	424.8	428.1
20°	414.0	414.0	412.8	412.8	412.8	414.0	414.0	416.1	418.3	421.5	424.8
22.5°	407.4	407.4	407.4	406.4	407.4	408.5	409.7	411.8	414.0	417.2	421.5
25°	399.8	399.8	399.8	399.8	401.0	401.0	403.1	405.3	407.4	411.8	416.1
27.5°	392.3	392.3	392.3	391.2	393.4	394.4	395.5	398.8	401.0	406.4	410.7
30°	382.5	382.5	382.5	383.7	384.7	385.8	388.0	391.2	393.4	398.8	404.2
32.5°	372.8	372.8	372.8	372.8	376.0	377.1	378.2	381.4	385.8	391.2	396.7
35°	362.0	362.0	362.0	363.0	365.2	366.3	368.4	371.7	376.0	381.4	386.8
37.5°	350.0	351.1	351.1	352.2	354.4	356.5	358.7	362.0	366.3	371.7	377.1
40°	337.0	338.1	338.1	339.2	341.4	343.5	345.7	350.0	354.4	359.8	365.2
42.5°	324.0	325.1	325.1	327.3	329.4	331.6	333.8	338.1	342.4	347.8	352.2
45°	310.0	311.0	311.0	313.1	316.4	317.5	320.8	325.1	329.4	333.8	338.1
47.5°	294.7	295.8	295.8	298.0	301.3	303.4	305.6	310.0	313.1	318.6	323.0
50°	277.4	278.5	279.6	281.7	286.1	288.3	290.4	293.7	298.0	301.3	305.6
52.5°	261.1	261.1	262.3	264.4	267.7	269.8	271.0	274.1	279.6	284.0	288.3
55°	242.7	243.8	245.0	247.1	250.3	252.5	253.6	256.8	260.1	263.3	267.7
57.5°	226.5	226.5	227.6	229.7	233.0	234.1	235.1	237.3	241.7	245.0	248.1
60°	207.0	208.1	209.1	211.3	213.5	215.7	215.7	218.9	222.1	225.4	227.6
62.5°	189.7	189.7	190.7	192.9	194.0	196.1	196.1	199.4	201.6	204.8	207.0
65°	169.0	170.1	171.3	172.3	174.4	174.4	175.6	177.7	179.9	182.1	185.3
67.5°	150.7	150.7	151.7	152.8	153.9	153.9	155.0	157.1	159.3	161.4	163.7
70°	130.0	131.1	131.1	131.1	132.2	133.3	134.4	135.4	137.6	138.7	140.9
72.5°	109.4	109.4	110.6	110.6	111.6	112.7	113.8	114.9	116.0	118.1	119.2
75°	88.9	88.9	90.0	90.0	91.0	91.0	91.0	93.2	94.3	96.4	97.6
77.5°	68.3	69.4	69.4	69.4	70.4	71.5	71.5	72.6	74.7	75.9	77.0
80°	49.9	49.9	49.9	49.9	51.0	52.0	53.1	53.1	55.3	57.4	58.5
82.5°	31.4	31.4	32.5	33.6	33.6	34.7	35.7	36.9	39.0	40.1	41.2
85°	16.3	16.3	17.3	18.4	19.5	20.6	20.6	21.7	23.8	26.0	27.1
87.5°	5.4	6.5	6.5	7.6	8.7	9.7	10.8	11.9	14.1	16.3	17.3
90°	1.1	1.1	1.1	2.2	3.3	3.3	4.3	5.4	6.5	7.6	9.7
92.5°	9.7	9.7	8.7	9.7	9.7	9.7	9.7	10.8	11.9	11.9	14.1
95°	29.3	28.2	28.2	28.2	28.2	28.2	28.2	29.3	30.3	30.3	31.4
97.5°	56.3	56.3	55.3	55.3	56.3	56.3	56.3	57.4	59.6	58.5	60.7
100°	87.7	87.7	86.7	87.7	88.9	90.0	92.1	92.1	94.3	94.3	97.6
102.5°	123.6	123.6	122.4	124.6	125.7	127.9	127.9	130.0	133.3	133.3	137.6
105°	159.3	160.4	160.4	162.6	164.7	166.9	166.9	170.1	174.4	174.4	179.9
107.5°	198.3	199.4	199.4	201.6	203.7	205.9	207.0	211.3	215.7	216.7	223.3
110°	236.3	237.3	238.4	240.6	242.7	246.0	248.1	252.5	258.0	260.1	265.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	272.0	276.4	277.4	280.7	284.0	287.1	289.4	294.7	301.3	304.5	311.0
115°	313.1	315.4	316.4	319.7	324.0	327.3	329.4	334.8	341.4	345.7	353.3
117.5°	346.8	352.2	353.3	356.5	360.8	364.1	366.3	372.8	380.4	385.8	393.4
120°	382.5	386.8	391.2	393.4	396.7	401.0	403.1	409.7	418.3	423.7	432.4
122.5°	415.1	419.4	423.7	427.0	431.3	433.5	436.7	444.3	453.0	459.5	468.1
125°	447.5	453.0	456.2	459.5	464.9	467.1	470.3	477.9	486.6	494.1	502.8
127.5°	479.0	482.2	487.7	489.8	495.2	497.4	500.7	509.4	518.0	525.6	534.3
130°	508.2	512.6	516.9	518.0	524.5	527.8	531.0	538.6	548.4	555.9	564.6
132.5°	536.4	538.6	544.0	547.3	552.7	555.9	559.2	565.7	575.4	583.0	591.7
135°	562.4	564.6	571.1	574.4	577.6	580.8	585.2	591.7	601.4	609.1	617.7
137.5°	588.4	590.6	597.1	600.4	602.5	605.8	609.1	615.5	625.3	632.8	640.5
140°	612.3	614.4	618.8	623.1	625.3	627.4	630.7	637.2	645.8	653.5	661.1
142.5°	634.0	636.1	640.5	644.8	648.1	648.1	651.3	656.7	666.5	674.1	680.5
145°	654.5	655.7	660.0	664.3	668.7	668.7	669.7	675.1	683.8	692.5	699.0
147.5°	674.1	675.1	678.4	682.7	686.0	687.1	689.2	691.4	700.1	708.7	716.4
150°	691.4	692.5	694.7	699.0	701.1	703.4	705.5	706.5	713.1	720.7	729.4
152.5°	706.5	707.7	709.8	713.1	715.2	717.4	719.5	722.8	726.1	733.7	739.1
155°	721.8	722.8	723.9	727.1	729.4	730.4	731.5	735.8	739.1	743.4	748.8
157.5°	734.8	734.8	735.8	738.0	740.1	740.1	741.2	745.5	748.8	753.2	756.4
160°	745.5	745.5	746.7	748.8	748.8	749.9	751.0	754.2	756.4	761.8	766.2
162.5°	755.4	754.2	755.4	756.4	756.4	756.4	757.5	759.7	762.9	767.2	771.5
165°	762.9	762.9	762.9	764.0	764.0	762.9	762.9	765.1	767.2	770.5	773.8
167.5°	769.4	769.4	768.4	769.4	768.4	768.4	767.2	768.4	769.4	772.7	774.8
170°	774.8	773.8	773.8	773.8	772.7	771.5	771.5	771.5	771.5	773.8	775.9
172.5°	779.2	778.1	777.0	777.0	774.8	773.8	773.8	772.7	772.7	773.8	774.8
175°	780.2	779.2	778.1	778.1	775.9	774.8	773.8	773.8	772.7	773.8	774.8
177.5°	782.4	781.4	779.2	779.2	777.0	774.8	774.8	773.8	772.7	773.8	773.8
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4
2.5°	434.5	434.5	433.5	432.4	432.4	431.3	430.2	429.1	428.1	427.0
5°	434.5	433.5	432.4	432.4	431.3	431.3	431.3	430.2	429.1	429.1
7.5°	434.5	434.5	433.5	432.4	432.4	432.4	432.4	432.4	431.3	431.3
10°	434.5	433.5	433.5	433.5	432.4	433.5	433.5	432.4	432.4	431.3
12.5°	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	432.4
15°	431.3	432.4	432.4	433.5	433.5	433.5	434.5	434.5	433.5	433.5
17.5°	430.2	431.3	432.4	433.5	433.5	433.5	434.5	434.5	434.5	434.5
20°	428.1	429.1	430.2	431.3	431.3	432.4	432.4	433.5	433.5	433.5
22.5°	423.7	424.8	427.0	428.1	429.1	430.2	431.3	431.3	431.3	431.3
25°	419.4	421.5	422.7	424.8	425.9	427.0	428.1	428.1	428.1	429.1
27.5°	414.0	416.1	419.4	420.5	421.5	422.7	423.7	424.8	424.8	424.8
30°	407.4	410.7	412.8	415.1	416.1	417.2	418.3	418.3	419.4	419.4
32.5°	399.8	403.1	405.3	407.4	408.5	409.7	411.8	411.8	412.8	412.8
35°	390.1	393.4	396.7	398.8	399.8	401.0	403.1	404.2	404.2	404.2
37.5°	380.4	383.7	386.8	390.1	391.2	392.3	394.4	394.4	395.5	395.5
40°	368.4	371.7	375.0	378.2	378.2	380.4	381.4	382.5	383.7	383.7
42.5°	356.5	359.8	362.0	365.2	366.3	367.4	368.4	370.7	370.7	371.7
45°	342.4	345.7	347.8	351.1	352.2	353.3	355.4	356.5	357.6	357.6
47.5°	327.3	329.4	331.6	334.8	337.0	338.1	339.2	340.3	341.4	340.3
50°	310.0	312.1	315.4	318.6	319.7	320.8	323.0	323.0	324.0	324.0
52.5°	291.5	294.7	297.0	300.1	301.3	302.4	304.5	304.5	305.6	305.6
55°	271.0	273.1	275.3	280.7	281.7	282.8	285.0	285.0	286.1	287.1
57.5°	251.4	252.5	255.7	258.0	260.1	260.1	261.1	262.3	263.3	263.3
60°	230.8	231.9	234.1	237.3	237.3	238.4	240.6	240.6	241.7	241.7
62.5°	209.1	211.3	213.5	216.7	215.7	216.7	218.9	218.9	220.0	220.0
65°	187.4	188.6	190.7	192.9	194.0	194.0	195.1	196.1	197.3	197.3
67.5°	164.7	166.9	168.0	171.3	170.1	171.3	172.3	172.3	173.4	173.4
70°	143.0	144.1	146.3	147.4	147.4	148.4	149.6	149.6	149.6	150.7
72.5°	121.4	122.4	123.6	124.6	124.6	125.7	126.8	126.8	127.9	127.9
75°	98.6	100.8	101.9	104.0	103.0	104.0	106.2	106.2	106.2	106.2
77.5°	79.1	80.2	82.4	83.4	83.4	83.4	85.6	84.6	85.6	85.6
80°	59.6	60.7	62.9	64.0	64.0	65.0	66.1	66.1	66.1	67.2
82.5°	42.3	44.4	46.6	47.7	47.7	48.7	49.9	49.9	51.0	51.0
85°	29.3	31.4	33.6	33.6	34.7	35.7	36.9	36.9	36.9	36.9
87.5°	19.5	20.6	21.7	22.7	23.8	23.8	24.9	24.9	26.0	26.0
90°	10.8	11.9	13.0	14.1	14.1	15.2	15.2	16.3	16.3	16.3
92.5°	15.2	15.2	16.3	17.3	17.3	17.3	17.3	18.4	18.4	18.4
95°	32.5	33.6	33.6	35.7	35.7	35.7	36.9	36.9	36.9	36.9
97.5°	62.9	62.9	62.9	65.0	65.0	65.0	66.1	66.1	66.1	67.2
100°	98.6	99.7	99.7	103.0	101.9	104.0	104.0	104.0	104.0	105.1
102.5°	138.7	140.9	142.0	145.3	145.3	145.3	147.4	146.3	147.4	147.4
105°	182.1	184.3	185.3	188.6	190.7	190.7	192.9	191.8	192.9	194.0
107.5°	225.4	228.7	230.8	234.1	236.3	237.3	237.3	238.4	239.5	240.6
110°	269.8	273.1	278.5	281.7	282.8	285.0	286.1	287.1	288.3	290.4





TEST NUMBER: P395046

CATALOG NUMBER: I3-FL-50L935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	316.4	319.7	324.0	328.4	327.3	330.5	332.7	333.8	334.8	333.8
115°	358.7	363.0	367.4	371.7	371.7	373.8	378.2	379.3	379.3	381.4
117.5°	398.8	404.2	408.5	412.8	414.0	416.1	419.4	422.7	422.7	424.8
120°	437.8	444.3	448.7	453.0	455.1	456.2	459.5	463.8	463.8	463.8
122.5°	474.7	480.1	485.5	489.8	492.0	494.1	496.4	501.7	501.7	503.9
125°	509.4	515.8	521.2	525.6	527.8	529.9	534.3	537.5	538.6	538.6
127.5°	541.8	548.4	553.8	559.2	560.3	562.4	566.8	571.1	572.2	573.3
130°	572.2	578.7	584.1	589.5	591.7	592.8	598.2	601.4	603.6	604.7
132.5°	599.3	605.8	611.2	616.6	618.8	621.0	624.2	629.6	630.7	630.7
135°	624.2	630.7	636.1	642.7	643.7	645.8	650.2	653.5	655.7	656.7
137.5°	647.0	653.5	660.0	665.4	667.5	668.7	673.0	677.3	679.5	680.5
140°	667.5	674.1	680.5	684.9	686.0	689.2	692.5	696.8	699.0	700.1
142.5°	687.1	692.5	697.9	703.4	704.4	706.5	709.8	714.1	716.4	717.4
145°	704.4	709.8	714.1	718.5	719.5	721.8	725.0	728.2	730.4	731.5
147.5°	720.7	725.0	729.4	732.5	733.7	735.8	738.0	740.1	742.4	743.4
150°	734.8	736.9	741.2	743.4	744.5	746.7	748.8	751.0	753.2	754.2
152.5°	745.5	748.8	751.0	754.2	755.4	756.4	758.5	760.8	762.9	762.9
155°	754.2	757.5	759.7	762.9	764.0	765.1	767.2	768.4	770.5	770.5
157.5°	760.8	764.0	766.2	768.4	769.4	770.5	771.5	773.8	775.9	775.9
160°	768.4	769.4	770.5	772.7	772.7	773.8	774.8	775.9	778.1	778.1
162.5°	774.8	775.9	773.8	774.8	773.8	774.8	775.9	777.0	778.1	778.1
165°	777.0	779.2	778.1	779.2	779.2	779.2	779.2	780.2	780.2	780.2
167.5°	777.0	779.2	778.1	778.1	779.2	779.2	780.2	781.4	781.4	781.4
170°	777.0	778.1	777.0	775.9	777.0	777.0	777.0	778.1	778.1	778.1
172.5°	775.9	777.0	774.8	773.8	773.8	773.8	772.7	772.7	771.5	771.5
175°	774.8	774.8	772.7	771.5	771.5	771.5	769.4	768.4	767.2	766.2
177.5°	773.8	773.8	770.5	769.4	769.4	768.4	768.4	766.2	766.2	765.1
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5

(END OF REPORT)