

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: P393803

Luminaire Tested: **I3-FL-20L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393803
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-20L835-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

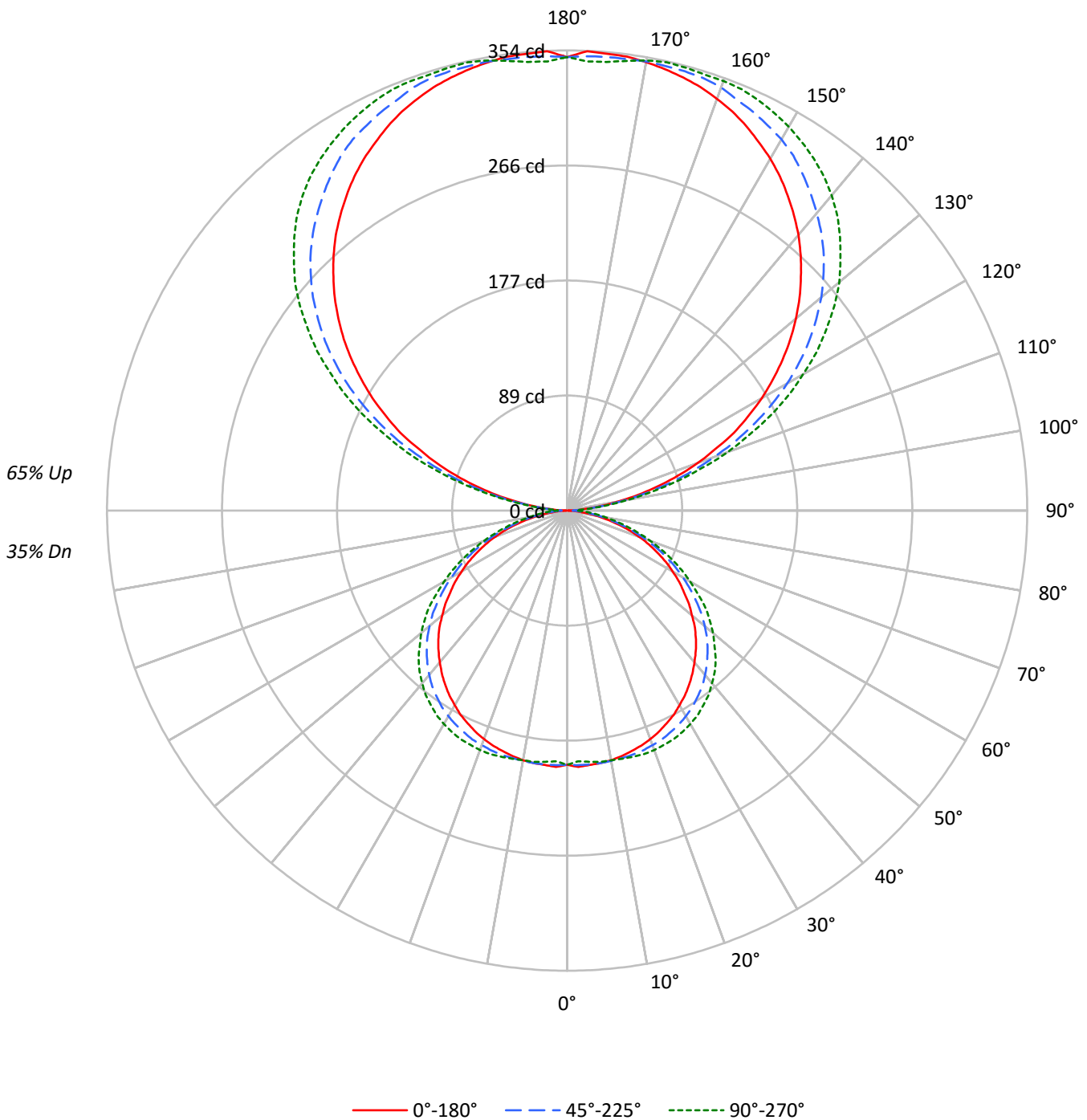
Lumens per Lamp: N/A
Luminaire Lumens: 1796.5 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 12.8
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°	1075	1075	1075
5°	1080	1057	1040
10°	1080	1042	1028
15°	1077	1033	1024
20°	1078	1024	1022
25°	1075	1015	1018
30°	1071	1005	1009
35°	1066	989	994
40°	1056	969	972
45°	1045	938	943
50°	1021	897	897
55°	991	840	843
60°	958	775	761
65°	911	694	677
70°	846	592	571
75°	737	470	454
80°	574	335	333
85°	310	191	219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.6	1.0
10°-20°	54.8	3.1
20°-30°	86.4	4.8
30°-40°	108.6	6.0
40°-50°	116.8	6.5
50°-60°	107.5	6.0
60°-70°	82.3	4.6
70°-80°	46.9	2.6
80°-90°	14.6	0.8
90°-100°	19.6	1.1
100°-110°	85.1	4.7
110°-120°	155.9	8.7
120°-130°	200.9	11.2
130°-140°	213.8	11.9
140°-150°	196.7	10.9
150°-160°	155.8	8.7
160°-170°	98.7	5.5
170°-180°	33.4	1.9
0°-30°	159.9	8.9
0°-40°	268.5	14.9
0°-60°	492.8	27.4
0°-90°	636.6	35.4
90°-120°	260.6	14.5
90°-150°	872.0	48.5
90°-180°	1160.0	64.6
0°-180°	1796.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	196	196	196	196	196	
5°	196	194	196	195	194	19
15°	192	191	194	196	196	54
25°	181	181	188	192	194	83
35°	164	166	175	181	183	102
45°	140	144	153	159	162	108
55°	110	114	121	127	130	98
65°	76	79	84	88	89	76
75°	40	41	44	46	48	43
85°	7	9	12	16	17	9
90°	0	2	4	6	7	1
95°	13	13	14	16	17	17
105°	72	75	81	86	88	77
115°	142	148	160	168	172	139
125°	202	211	227	239	244	181
135°	254	263	279	291	297	196
145°	296	302	316	325	331	185
155°	326	330	338	345	348	150
165°	345	345	350	352	353	97
175°	353	350	350	349	346	34
180°	349	349	349	349	349	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5
2.5°	197.4	196.9	196.4	195.5	195.5	195.0	195.0	195.0	195.0	195.5	196.0
5°	196.4	196.4	196.0	195.0	195.0	194.5	194.5	195.0	194.5	195.0	196.0
7.5°	196.0	196.0	195.5	194.5	194.5	194.5	194.5	194.5	194.5	195.0	196.0
10°	195.0	195.0	194.0	193.5	193.5	193.5	193.5	194.0	194.0	194.5	195.5
12.5°	193.5	193.0	192.5	192.0	192.0	192.0	192.5	193.0	193.0	194.0	195.0
15°	191.5	191.5	191.1	190.6	190.6	190.6	191.1	191.5	192.0	193.0	194.5
17.5°	189.6	189.6	189.1	189.1	189.1	189.1	189.6	190.1	191.1	192.0	193.5
20°	187.1	187.1	186.7	186.7	186.7	187.1	187.1	188.1	189.1	190.6	192.0
22.5°	184.2	184.2	184.2	183.7	184.2	184.7	185.2	186.2	187.1	188.6	190.6
25°	180.8	180.8	180.8	180.8	181.3	181.3	182.2	183.2	184.2	186.2	188.1
27.5°	177.3	177.3	177.3	176.9	177.8	178.3	178.8	180.3	181.3	183.7	185.7
30°	172.9	172.9	172.9	173.4	173.9	174.4	175.4	176.9	177.8	180.3	182.7
32.5°	168.5	168.5	168.5	168.5	170.0	170.5	171.0	172.4	174.4	176.9	179.3
35°	163.6	163.6	163.6	164.1	165.1	165.6	166.6	168.0	170.0	172.4	174.9
37.5°	158.2	158.7	158.7	159.2	160.2	161.2	162.2	163.6	165.6	168.0	170.5
40°	152.4	152.8	152.8	153.3	154.3	155.3	156.3	158.2	160.2	162.6	165.1
42.5°	146.5	147.0	147.0	147.9	148.9	149.9	150.9	152.8	154.8	157.3	159.2
45°	140.1	140.6	140.6	141.6	143.1	143.5	145.0	147.0	148.9	150.9	152.8
47.5°	133.3	133.7	133.7	134.7	136.2	137.2	138.2	140.1	141.6	144.0	146.0
50°	125.4	125.9	126.4	127.4	129.3	130.3	131.3	132.8	134.7	136.2	138.2
52.5°	118.1	118.1	118.6	119.5	121.0	122.0	122.5	123.9	126.4	128.4	130.3
55°	109.7	110.2	110.7	111.7	113.2	114.1	114.6	116.1	117.6	119.0	121.0
57.5°	102.4	102.4	102.9	103.9	105.3	105.8	106.3	107.3	109.2	110.7	112.2
60°	93.6	94.1	94.6	95.5	96.5	97.5	97.5	99.0	100.4	101.9	102.9
62.5°	85.7	85.7	86.2	87.2	87.7	88.7	88.7	90.1	91.1	92.6	93.6
65°	76.4	76.9	77.4	77.9	78.9	78.9	79.4	80.3	81.3	82.3	83.8
67.5°	68.1	68.1	68.6	69.1	69.6	69.6	70.1	71.0	72.0	73.0	74.0
70°	58.8	59.3	59.3	59.3	59.8	60.3	60.7	61.2	62.2	62.7	63.7
72.5°	49.5	49.5	50.0	50.0	50.5	50.9	51.4	51.9	52.4	53.4	53.9
75°	40.2	40.2	40.7	40.7	41.2	41.2	41.2	42.1	42.6	43.6	44.1
77.5°	30.9	31.4	31.4	31.4	31.8	32.3	32.3	32.8	33.8	34.3	34.8
80°	22.5	22.5	22.5	22.5	23.0	23.5	24.0	24.0	25.0	26.0	26.5
82.5°	14.2	14.2	14.7	15.2	15.2	15.7	16.2	16.7	17.6	18.1	18.6
85°	7.3	7.3	7.8	8.3	8.8	9.3	9.3	9.8	10.8	11.8	12.2
87.5°	2.4	2.9	2.9	3.4	3.9	4.4	4.9	5.4	6.4	7.3	7.8
90°	0.5	0.5	0.5	1.0	1.5	1.5	2.0	2.4	2.9	3.4	4.4
92.5°	4.4	4.4	3.9	4.4	4.4	4.4	4.4	4.9	5.4	5.4	6.4
95°	13.2	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.7	13.7	14.2
97.5°	25.5	25.5	25.0	25.0	25.5	25.5	25.5	26.0	26.9	26.5	27.4
100°	39.7	39.7	39.2	39.7	40.2	40.7	41.6	41.6	42.6	42.6	44.1
102.5°	55.8	55.8	55.4	56.3	56.8	57.8	57.8	58.8	60.3	60.3	62.2
105°	72.0	72.5	72.5	73.5	74.5	75.4	75.4	76.9	78.9	78.9	81.3
107.5°	89.7	90.1	90.1	91.1	92.1	93.1	93.6	95.5	97.5	98.0	100.9
110°	106.8	107.3	107.8	108.8	109.7	111.2	112.2	114.1	116.6	117.6	120.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	123.0	124.9	125.4	126.9	128.4	129.8	130.8	133.3	136.2	137.7	140.6
115°	141.6	142.6	143.1	144.5	146.5	147.9	148.9	151.4	154.3	156.3	159.7
117.5°	156.8	159.2	159.7	161.2	163.1	164.6	165.6	168.5	172.0	174.4	177.8
120°	172.9	174.9	176.9	177.8	179.3	181.3	182.2	185.2	189.1	191.5	195.5
122.5°	187.6	189.6	191.5	193.0	195.0	196.0	197.4	200.9	204.8	207.7	211.6
125°	202.3	204.8	206.2	207.7	210.2	211.1	212.6	216.0	220.0	223.4	227.3
127.5°	216.5	218.0	220.5	221.4	223.9	224.9	226.3	230.3	234.2	237.6	241.5
130°	229.8	231.7	233.7	234.2	237.1	238.6	240.0	243.5	247.9	251.3	255.2
132.5°	242.5	243.5	245.9	247.4	249.8	251.3	252.8	255.7	260.1	263.6	267.5
135°	254.3	255.2	258.2	259.6	261.1	262.6	264.5	267.5	271.9	275.3	279.2
137.5°	266.0	267.0	269.9	271.4	272.4	273.9	275.3	278.3	282.7	286.1	289.5
140°	276.8	277.8	279.7	281.7	282.7	283.7	285.1	288.1	292.0	295.4	298.8
142.5°	286.6	287.6	289.5	291.5	293.0	293.0	294.4	296.9	301.3	304.7	307.7
145°	295.9	296.4	298.3	300.3	302.3	302.3	302.8	305.2	309.1	313.0	316.0
147.5°	304.7	305.2	306.7	308.6	310.1	310.6	311.6	312.6	316.5	320.4	323.8
150°	312.6	313.0	314.0	316.0	317.0	317.9	318.9	319.4	322.4	325.8	329.7
152.5°	319.4	319.9	320.9	322.4	323.3	324.3	325.3	326.8	328.2	331.7	334.1
155°	326.3	326.8	327.3	328.7	329.7	330.2	330.7	332.6	334.1	336.1	338.5
157.5°	332.2	332.2	332.6	333.6	334.6	334.6	335.1	337.0	338.5	340.5	341.9
160°	337.0	337.0	337.5	338.5	338.5	339.0	339.5	341.0	341.9	344.4	346.4
162.5°	341.5	341.0	341.5	341.9	341.9	341.9	342.4	343.4	344.9	346.8	348.8
165°	344.9	344.9	344.9	345.4	345.4	344.9	344.9	345.9	346.8	348.3	349.8
167.5°	347.8	347.8	347.3	347.8	347.3	347.3	346.8	347.3	347.8	349.3	350.3
170°	350.3	349.8	349.8	349.8	349.3	348.8	348.8	348.8	348.8	349.8	350.8
172.5°	352.2	351.7	351.3	351.3	350.3	349.8	349.8	349.3	349.3	349.8	350.3
175°	352.7	352.2	351.7	351.7	350.8	350.3	349.8	349.8	349.3	349.8	350.3
177.5°	353.7	353.2	352.2	352.2	351.3	350.3	350.3	349.8	349.3	349.8	349.8
180°	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5
2.5°	196.4	196.4	196.0	195.5	195.5	195.0	194.5	194.0	193.5	193.0
5°	196.4	196.0	195.5	195.5	195.0	195.0	195.0	194.5	194.0	194.0
7.5°	196.4	196.4	196.0	195.5	195.5	195.5	195.5	195.5	195.0	195.0
10°	196.4	196.0	196.0	196.0	195.5	196.0	196.0	195.5	195.5	195.0
12.5°	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	195.5
15°	195.0	195.5	195.5	196.0	196.0	196.0	196.4	196.4	196.0	196.0
17.5°	194.5	195.0	195.5	196.0	196.0	196.0	196.4	196.4	196.4	196.4
20°	193.5	194.0	194.5	195.0	195.0	195.5	195.5	196.0	196.0	196.0
22.5°	191.5	192.0	193.0	193.5	194.0	194.5	195.0	195.0	195.0	195.0
25°	189.6	190.6	191.1	192.0	192.5	193.0	193.5	193.5	193.5	194.0
27.5°	187.1	188.1	189.6	190.1	190.6	191.1	191.5	192.0	192.0	192.0
30°	184.2	185.7	186.7	187.6	188.1	188.6	189.1	189.1	189.6	189.6
32.5°	180.8	182.2	183.2	184.2	184.7	185.2	186.2	186.2	186.7	186.7
35°	176.4	177.8	179.3	180.3	180.8	181.3	182.2	182.7	182.7	182.7
37.5°	172.0	173.4	174.9	176.4	176.9	177.3	178.3	178.3	178.8	178.8
40°	166.6	168.0	169.5	171.0	171.0	172.0	172.4	172.9	173.4	173.4
42.5°	161.2	162.6	163.6	165.1	165.6	166.1	166.6	167.5	167.5	168.0
45°	154.8	156.3	157.3	158.7	159.2	159.7	160.7	161.2	161.7	161.7
47.5°	147.9	148.9	149.9	151.4	152.4	152.8	153.3	153.8	154.3	153.8
50°	140.1	141.1	142.6	144.0	144.5	145.0	146.0	146.0	146.5	146.5
52.5°	131.8	133.3	134.2	135.7	136.2	136.7	137.7	137.7	138.2	138.2
55°	122.5	123.5	124.4	126.9	127.4	127.9	128.8	128.8	129.3	129.8
57.5°	113.7	114.1	115.6	116.6	117.6	117.6	118.1	118.6	119.0	119.0
60°	104.3	104.8	105.8	107.3	107.3	107.8	108.8	108.8	109.2	109.2
62.5°	94.6	95.5	96.5	98.0	97.5	98.0	99.0	99.0	99.4	99.4
65°	84.8	85.2	86.2	87.2	87.7	87.7	88.2	88.7	89.2	89.2
67.5°	74.5	75.4	75.9	77.4	76.9	77.4	77.9	77.9	78.4	78.4
70°	64.7	65.2	66.1	66.6	66.6	67.1	67.6	67.6	67.6	68.1
72.5°	54.9	55.4	55.8	56.3	56.3	56.8	57.3	57.3	57.8	57.8
75°	44.6	45.6	46.1	47.0	46.5	47.0	48.0	48.0	48.0	48.0
77.5°	35.8	36.3	37.2	37.7	37.7	37.7	38.7	38.2	38.7	38.7
80°	26.9	27.4	28.4	28.9	28.9	29.4	29.9	29.9	29.9	30.4
82.5°	19.1	20.1	21.1	21.6	21.6	22.0	22.5	22.5	23.0	23.0
85°	13.2	14.2	15.2	15.2	15.7	16.2	16.7	16.7	16.7	16.7
87.5°	8.8	9.3	9.8	10.3	10.8	10.8	11.3	11.3	11.8	11.8
90°	4.9	5.4	5.9	6.4	6.4	6.9	6.9	7.3	7.3	7.3
92.5°	6.9	6.9	7.3	7.8	7.8	7.8	7.8	8.3	8.3	8.3
95°	14.7	15.2	15.2	16.2	16.2	16.2	16.7	16.7	16.7	16.7
97.5°	28.4	28.4	28.4	29.4	29.4	29.4	29.9	29.9	29.9	30.4
100°	44.6	45.1	45.1	46.5	46.1	47.0	47.0	47.0	47.0	47.5
102.5°	62.7	63.7	64.2	65.6	65.6	65.6	66.6	66.1	66.6	66.6
105°	82.3	83.3	83.8	85.2	86.2	86.2	87.2	86.7	87.2	87.7
107.5°	101.9	103.4	104.3	105.8	106.8	107.3	107.3	107.8	108.3	108.8
110°	122.0	123.5	125.9	127.4	127.9	128.8	129.3	129.8	130.3	131.3



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CATALOG NUMBER: I3-FL-20L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	143.1	144.5	146.5	148.4	147.9	149.4	150.4	150.9	151.4	150.9
115°	162.2	164.1	166.1	168.0	168.0	169.0	171.0	171.5	171.5	172.4
117.5°	180.3	182.7	184.7	186.7	187.1	188.1	189.6	191.1	191.1	192.0
120°	197.9	200.9	202.8	204.8	205.8	206.2	207.7	209.7	209.7	209.7
122.5°	214.6	217.0	219.5	221.4	222.4	223.4	224.4	226.8	226.8	227.8
125°	230.3	233.2	235.6	237.6	238.6	239.6	241.5	243.0	243.5	243.5
127.5°	244.9	247.9	250.3	252.8	253.3	254.3	256.2	258.2	258.7	259.2
130°	258.7	261.6	264.1	266.5	267.5	268.0	270.4	271.9	272.9	273.4
132.5°	270.9	273.9	276.3	278.8	279.7	280.7	282.2	284.6	285.1	285.1
135°	282.2	285.1	287.6	290.5	291.0	292.0	293.9	295.4	296.4	296.9
137.5°	292.5	295.4	298.3	300.8	301.8	302.3	304.2	306.2	307.2	307.7
140°	301.8	304.7	307.7	309.6	310.1	311.6	313.0	315.0	316.0	316.5
142.5°	310.6	313.0	315.5	317.9	318.4	319.4	320.9	322.8	323.8	324.3
145°	318.4	320.9	322.8	324.8	325.3	326.3	327.7	329.2	330.2	330.7
147.5°	325.8	327.7	329.7	331.2	331.7	332.6	333.6	334.6	335.6	336.1
150°	332.2	333.1	335.1	336.1	336.6	337.5	338.5	339.5	340.5	341.0
152.5°	337.0	338.5	339.5	341.0	341.5	341.9	342.9	343.9	344.9	344.9
155°	341.0	342.4	343.4	344.9	345.4	345.9	346.8	347.3	348.3	348.3
157.5°	343.9	345.4	346.4	347.3	347.8	348.3	348.8	349.8	350.8	350.8
160°	347.3	347.8	348.3	349.3	349.3	349.8	350.3	350.8	351.7	351.7
162.5°	350.3	350.8	349.8	350.3	349.8	350.3	350.8	351.3	351.7	351.7
165°	351.3	352.2	351.7	352.2	352.2	352.2	352.2	352.7	352.7	352.7
167.5°	351.3	352.2	351.7	351.7	352.2	352.2	352.7	353.2	353.2	353.2
170°	351.3	351.7	351.3	350.8	351.3	351.3	351.3	351.7	351.7	351.7
172.5°	350.8	351.3	350.3	349.8	349.8	349.8	349.3	349.3	348.8	348.8
175°	350.3	350.3	349.3	348.8	348.8	348.8	347.8	347.3	346.8	346.4
177.5°	349.8	349.8	348.3	347.8	347.8	347.3	347.3	346.4	346.4	345.9
180°	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8

(END OF REPORT)