

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: P393785

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

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393785
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-20L835-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

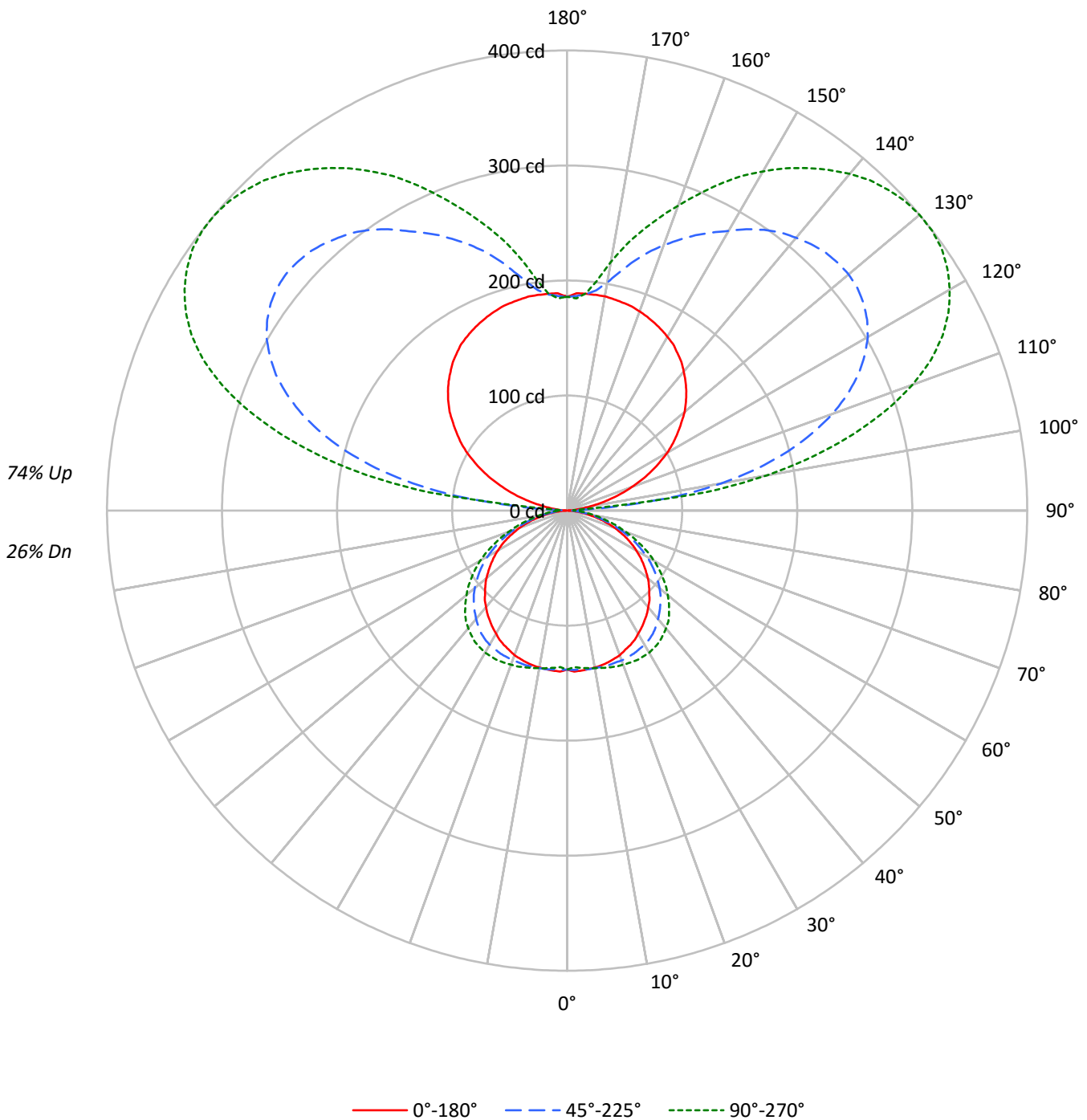
Lumens per Lamp: N/A
Luminaire Lumens: 1820.5 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 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	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°	760	760	760
5°	767	747	736
10°	768	742	733
15°	769	739	737
20°	770	739	744
25°	769	740	753
30°	765	741	759
35°	763	737	759
40°	760	722	750
45°	752	704	731
50°	745	681	698
55°	730	647	658
60°	713	601	608
65°	683	540	538
70°	635	460	456
75°	548	366	366
80°	426	260	268
85°	250	161	180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.7
10°-20°	39.3	2.2
20°-30°	63.0	3.5
30°-40°	80.5	4.4
40°-50°	87.8	4.8
50°-60°	82.3	4.5
60°-70°	63.8	3.5
70°-80°	36.6	2.0
80°-90°	11.7	0.6
90°-100°	46.9	2.6
100°-110°	182.5	10.0
110°-120°	248.5	13.6
120°-130°	257.9	14.2
130°-140°	228.8	12.6
140°-150°	177.5	9.8
150°-160°	118.5	6.5
160°-170°	63.1	3.5
170°-180°	18.5	1.0
0°-30°	115.5	6.3
0°-40°	196.0	10.8
0°-60°	366.0	20.1
0°-90°	478.1	26.3
90°-120°	478.0	26.3
90°-150°	1142.3	62.7
90°-180°	1342.0	73.7
0°-180°	1820.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	138	138	138	138	138	
5°	140	138	139	138	137	13
15°	137	136	139	141	141	39
25°	129	130	137	142	144	60
35°	117	120	130	137	140	73
45°	101	105	115	122	125	78
55°	81	85	93	99	101	72
65°	57	60	65	70	71	57
75°	30	31	34	38	39	32
85°	6	7	10	13	14	7
90°	0	2	3	5	6	1
95°	6	33	46	9	9	8
105°	39	117	198	236	258	41
115°	81	181	279	328	360	80
125°	117	213	314	369	397	105
135°	146	224	318	372	394	113
145°	167	224	298	346	364	105
155°	180	212	264	299	313	83
165°	187	195	224	245	252	53
175°	189	188	189	190	190	18
180°	186	186	186	186	186	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	140.1	139.6	139.6	138.6	138.6	138.2	138.2	138.2	138.2	138.2	138.6
5°	139.6	139.6	139.1	138.6	138.6	138.2	138.2	138.2	138.2	138.2	138.6
7.5°	139.1	139.1	138.6	138.2	138.2	138.2	138.2	138.2	138.2	138.2	139.1
10°	138.6	138.6	138.2	137.7	137.7	137.7	137.7	138.2	138.2	138.2	139.1
12.5°	137.7	137.2	137.2	136.7	136.7	136.7	137.2	137.2	137.7	138.2	139.1
15°	136.7	136.7	136.2	135.7	136.2	136.2	136.2	136.7	137.2	137.7	139.1
17.5°	135.2	135.2	134.7	134.7	134.7	135.2	135.2	135.7	136.7	137.7	138.6
20°	133.7	133.3	133.3	133.3	133.7	133.7	134.2	135.2	135.7	137.2	138.6
22.5°	131.3	131.8	131.3	131.3	131.8	132.3	132.8	133.7	134.7	136.2	137.7
25°	129.3	129.3	129.3	129.3	130.3	130.3	131.3	132.3	133.7	135.2	137.2
27.5°	126.9	126.9	126.9	127.4	127.9	128.4	128.8	130.3	131.8	133.7	135.7
30°	123.5	123.5	123.5	123.5	124.9	125.4	126.4	128.4	129.8	132.3	134.7
32.5°	120.5	120.5	120.5	121.0	122.0	122.5	123.5	125.9	127.9	130.3	132.8
35°	117.1	117.1	117.6	117.6	119.0	119.5	120.5	122.5	124.4	127.4	130.3
37.5°	113.7	113.7	114.1	114.6	115.6	116.6	117.6	119.5	121.5	123.9	126.9
40°	109.7	109.7	110.2	110.7	112.2	113.2	114.1	116.1	118.1	120.5	123.0
42.5°	105.8	105.8	106.3	106.8	108.3	109.2	110.2	112.7	114.6	117.1	119.0
45°	100.9	101.4	101.9	102.9	104.3	105.3	106.3	108.3	110.7	112.7	114.6
47.5°	96.5	97.0	97.5	98.5	99.9	100.9	101.9	103.9	105.8	107.8	110.2
50°	91.6	92.1	92.6	93.6	95.0	96.0	97.0	99.0	100.9	102.4	104.8
52.5°	86.2	86.7	87.2	88.2	90.1	90.6	91.6	93.6	95.0	97.0	99.0
55°	80.8	81.3	81.8	82.8	84.3	85.2	85.7	87.7	89.2	91.1	93.1
57.5°	75.4	75.9	76.4	77.4	78.4	79.4	79.9	81.3	83.3	84.8	86.7
60°	69.6	70.1	70.5	71.0	72.5	73.0	73.5	75.0	76.4	78.4	79.9
62.5°	63.7	63.7	64.2	64.7	66.1	66.6	67.1	68.1	70.1	71.0	72.5
65°	57.3	57.3	57.8	58.3	59.3	59.8	60.3	61.2	62.7	63.7	65.2
67.5°	50.5	50.5	50.9	51.4	52.4	52.9	52.9	54.4	55.4	56.3	57.3
70°	44.1	44.1	44.6	44.6	45.1	45.6	46.1	47.0	47.5	49.0	49.5
72.5°	37.2	37.2	37.2	37.2	38.2	38.2	38.7	39.7	40.2	41.2	42.1
75°	29.9	29.9	30.4	30.4	30.9	31.4	31.8	32.3	33.3	33.8	34.3
77.5°	23.5	23.0	23.5	24.0	24.5	24.5	25.0	25.5	26.0	26.9	27.4
80°	16.7	16.7	16.7	17.1	17.6	17.6	18.1	18.6	19.1	20.1	20.6
82.5°	10.8	10.8	11.3	11.3	11.8	12.2	12.2	12.7	13.2	14.2	14.7
85°	5.9	5.9	5.9	6.4	6.9	6.9	7.3	7.8	8.8	9.3	10.3
87.5°	2.0	2.0	2.4	2.9	3.4	3.4	3.9	4.4	4.9	5.9	6.4
90°	0.5	0.5	0.5	1.0	1.0	1.5	1.5	2.0	2.4	2.9	3.4
92.5°	2.0	3.4	5.4	7.8	7.3	7.8	5.4	3.4	3.4	3.4	3.9
95°	5.9	8.8	14.2	22.5	29.4	33.3	36.7	40.2	47.0	47.5	45.6
97.5°	11.8	16.2	26.0	36.7	49.0	55.4	60.3	70.5	81.3	88.2	96.5
100°	19.6	26.0	38.7	53.4	67.6	75.9	83.8	98.5	111.7	123.5	136.2
102.5°	28.9	36.3	51.9	70.1	87.7	97.0	105.3	122.5	140.6	156.3	170.0
105°	38.7	47.0	65.6	86.2	106.3	117.1	127.4	146.0	165.1	182.2	198.4
107.5°	49.5	58.3	78.4	101.4	123.9	136.2	147.5	167.5	187.6	206.2	223.4
110°	59.8	69.6	90.6	115.6	141.1	153.3	164.6	186.7	207.7	227.3	245.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	70.5	80.8	101.9	129.3	155.3	168.0	179.8	203.3	225.4	245.4	263.6
115°	80.8	90.6	112.7	141.1	167.5	180.8	193.5	217.5	240.5	260.6	279.2
117.5°	90.6	99.9	122.5	150.9	178.3	191.5	204.3	229.3	252.3	273.4	291.5
120°	100.4	108.8	133.3	159.2	187.1	200.4	213.6	238.6	262.1	283.2	301.8
122.5°	109.2	117.1	141.1	166.6	194.0	207.7	220.5	245.9	269.9	291.0	309.1
125°	117.1	124.4	148.4	172.4	199.9	213.1	226.3	251.3	275.3	295.9	314.5
127.5°	124.9	132.3	153.8	178.3	203.8	217.5	230.3	255.2	278.8	299.8	317.9
130°	133.3	138.6	159.2	183.7	207.7	220.5	233.7	257.7	280.7	301.3	319.4
132.5°	140.1	145.0	164.6	188.1	210.7	222.9	234.7	258.7	281.7	301.3	318.9
135°	146.5	150.4	168.5	192.0	213.1	224.4	235.6	258.2	280.7	300.3	317.5
137.5°	152.4	156.3	172.0	195.0	215.1	224.9	235.6	256.7	278.3	297.9	314.0
140°	157.7	160.7	174.9	196.4	216.0	225.4	234.7	254.3	274.3	293.4	309.6
142.5°	163.1	165.6	177.3	197.4	216.5	225.4	234.2	251.3	269.9	288.5	304.7
145°	167.1	169.5	179.3	197.9	216.0	224.4	232.2	248.4	265.0	282.2	297.9
147.5°	171.5	173.4	181.3	196.9	214.6	222.4	229.8	244.5	259.6	275.3	290.0
150°	174.4	176.4	182.2	196.0	212.1	219.5	226.8	240.5	254.3	268.0	280.7
152.5°	177.3	178.8	183.7	194.5	209.2	216.0	222.9	236.1	248.9	261.1	272.4
155°	179.8	181.3	184.7	193.5	205.8	212.1	218.5	231.2	243.0	253.8	264.1
157.5°	182.2	183.2	185.7	192.0	201.8	207.7	213.6	224.9	235.6	246.4	254.7
160°	184.2	184.7	186.7	191.5	198.4	202.8	208.2	218.5	228.3	237.6	245.4
162.5°	186.2	186.2	187.6	190.6	195.5	198.4	202.3	211.1	220.0	228.3	235.6
165°	187.1	187.1	188.1	190.1	193.0	195.0	197.4	203.3	210.2	217.5	224.4
167.5°	188.1	188.1	188.6	189.6	191.5	192.5	193.5	197.4	201.8	207.2	212.6
170°	189.1	188.6	188.6	189.6	190.1	190.6	191.1	193.0	195.0	198.4	201.3
172.5°	189.1	188.6	188.6	189.1	189.1	189.1	189.1	189.6	190.1	192.0	193.0
175°	189.1	188.6	188.6	188.6	188.6	188.1	188.1	188.1	188.1	188.1	188.6
177.5°	189.1	188.6	188.1	188.1	187.6	187.6	187.1	187.1	186.7	186.7	186.7
180°	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	138.6	138.6	138.2	138.2	137.7	137.7	137.2	136.7	136.2	136.2
5°	139.1	138.6	138.2	138.2	138.2	137.7	137.7	137.7	137.2	137.2
7.5°	139.1	139.1	139.1	138.6	138.6	138.6	138.6	138.6	138.2	138.2
10°	139.6	139.6	139.6	139.6	139.6	139.6	139.6	139.1	139.1	139.1
12.5°	139.6	139.6	139.6	140.1	140.1	140.1	140.1	140.1	140.1	140.1
15°	140.1	140.1	140.6	140.6	141.1	141.1	141.6	141.6	141.6	141.1
17.5°	139.6	140.1	140.6	141.1	141.6	141.6	142.1	142.1	142.1	142.1
20°	139.6	140.6	141.1	141.6	142.1	142.1	142.6	143.0	143.0	142.6
22.5°	139.1	140.1	140.6	141.6	142.1	142.1	143.0	143.0	143.0	143.0
25°	138.6	139.6	140.6	141.6	142.1	142.1	143.0	143.0	143.5	143.5
27.5°	137.7	138.6	140.1	141.1	141.6	142.1	142.6	143.0	143.0	143.0
30°	136.2	137.7	139.1	140.1	140.6	141.1	141.6	142.1	142.6	142.6
32.5°	134.2	135.7	137.2	138.6	139.1	139.6	140.6	141.1	141.1	141.1
35°	132.3	133.7	135.2	136.7	137.2	137.7	138.6	139.1	139.6	139.6
37.5°	129.3	130.8	132.3	133.7	134.2	135.2	136.2	136.7	136.7	136.7
40°	124.9	127.4	129.3	130.8	131.3	132.3	132.8	133.7	133.7	133.7
42.5°	121.0	123.0	124.4	126.4	126.9	128.4	129.3	129.8	130.3	130.3
45°	116.6	118.6	120.0	121.5	122.0	123.0	123.9	124.4	124.9	125.4
47.5°	112.2	113.7	115.1	116.6	117.1	118.1	119.0	119.5	120.0	120.0
50°	106.8	108.3	109.7	111.2	111.7	112.7	113.2	113.7	114.1	114.1
52.5°	100.9	102.4	103.9	105.3	105.8	106.3	107.3	107.8	108.3	108.3
55°	95.0	96.5	97.5	99.0	99.4	99.9	100.4	101.4	101.9	101.4
57.5°	88.2	89.7	90.6	92.1	92.6	93.1	93.6	94.1	94.6	94.6
60°	80.8	82.3	83.8	84.8	85.2	85.7	86.2	86.7	87.2	87.2
62.5°	73.5	75.0	75.9	77.4	77.9	77.9	78.4	78.9	79.4	79.4
65°	66.1	67.6	68.1	69.6	69.6	70.1	70.5	71.0	71.0	71.0
67.5°	58.3	59.8	60.3	61.2	61.2	61.7	62.2	62.7	62.7	62.7
70°	50.9	51.4	52.4	52.9	53.4	53.4	53.9	54.4	54.9	54.4
72.5°	43.1	43.6	44.6	45.1	45.1	45.6	45.6	46.1	46.5	46.5
75°	35.3	36.3	36.7	37.2	37.7	37.7	38.2	38.7	38.7	38.7
77.5°	27.9	28.9	29.4	29.9	30.4	30.4	30.9	30.9	31.4	30.9
80°	21.6	22.0	22.5	23.0	23.5	23.5	24.0	24.5	24.5	24.5
82.5°	15.7	16.2	17.1	17.6	17.6	17.6	18.6	18.6	19.1	18.6
85°	10.8	11.3	12.2	12.7	13.2	13.2	13.2	13.7	14.2	13.7
87.5°	6.9	7.8	8.3	8.8	8.8	8.8	9.3	9.8	9.8	9.8
90°	3.9	3.9	4.4	4.9	4.9	5.4	5.4	5.9	5.9	5.9
92.5°	3.9	4.4	4.4	4.4	4.9	4.9	4.9	5.4	5.4	5.4
95°	33.3	24.0	13.7	10.8	9.3	9.3	8.8	9.3	8.8	8.8
97.5°	100.9	109.2	113.2	118.6	121.5	121.0	119.0	121.0	119.5	121.0
100°	143.5	151.4	157.3	158.7	161.7	163.1	168.5	172.4	174.4	176.9
102.5°	178.3	187.6	194.5	198.4	201.3	203.3	209.7	215.6	218.5	220.5
105°	210.2	220.0	228.3	232.2	235.6	237.6	244.5	251.3	255.7	258.2
107.5°	235.6	246.9	255.7	261.6	265.0	268.5	276.8	283.7	289.0	291.5
110°	258.7	269.9	279.2	286.1	290.0	293.4	302.8	310.6	316.5	319.4



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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	277.8	290.0	299.3	306.7	310.6	315.5	324.3	333.1	339.0	342.4
115°	293.4	306.2	316.0	323.8	328.2	332.6	342.9	351.7	357.6	360.1
117.5°	306.7	319.4	329.7	337.5	342.4	347.3	357.6	365.5	371.8	373.8
120°	317.5	330.2	340.5	349.3	354.2	358.6	368.4	376.7	382.6	384.1
122.5°	324.8	338.0	348.8	358.6	363.0	367.4	376.7	385.1	390.4	391.9
125°	330.2	343.9	354.7	365.0	369.4	373.8	382.6	390.9	395.3	397.3
127.5°	333.6	347.3	359.1	368.9	373.8	377.7	386.5	393.9	398.3	399.8
130°	334.6	348.8	360.6	370.9	375.3	379.2	387.5	394.9	398.8	399.8
132.5°	334.6	348.3	360.6	370.4	374.8	378.7	386.5	393.4	397.3	398.3
135°	332.6	345.9	358.1	367.9	372.3	376.2	384.1	390.0	393.9	394.4
137.5°	329.2	341.9	353.7	363.5	367.9	371.8	378.7	385.1	388.5	389.5
140°	324.8	336.6	348.3	357.6	362.0	365.5	372.3	377.7	381.1	382.1
142.5°	318.9	330.7	341.5	350.8	354.2	358.1	364.0	369.4	372.3	373.3
145°	312.6	323.8	333.6	341.9	345.9	349.3	354.7	359.6	362.5	363.5
147.5°	304.2	315.5	324.8	332.6	336.1	339.5	344.4	348.8	351.7	352.7
150°	293.9	304.2	314.0	321.4	324.8	328.2	333.1	337.0	340.0	340.5
152.5°	283.7	293.4	301.8	309.1	312.6	316.0	320.4	324.3	327.7	327.7
155°	273.9	282.2	290.0	296.4	299.3	302.3	306.7	310.1	313.0	313.0
157.5°	263.6	271.4	277.8	283.7	286.1	288.5	292.5	295.4	297.9	297.4
160°	253.8	259.6	265.5	270.4	272.9	274.8	277.8	280.2	282.7	282.2
162.5°	243.0	248.4	253.3	256.7	258.7	260.1	263.1	265.5	267.0	267.0
165°	230.7	235.6	240.0	243.5	245.4	246.4	248.9	250.3	251.8	251.8
167.5°	218.0	221.9	225.8	228.8	230.7	231.7	234.2	235.2	237.1	236.6
170°	205.3	208.2	211.1	213.6	214.6	215.6	217.5	218.5	219.5	219.5
172.5°	195.0	196.0	197.4	199.4	199.4	199.9	200.9	201.3	201.8	201.8
175°	189.1	189.6	189.6	189.6	189.6	189.6	190.1	189.6	190.1	189.6
177.5°	186.7	186.7	186.2	186.2	185.7	186.2	185.7	185.2	185.2	184.7
180°	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7

(END OF REPORT)