

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: P393825

Luminaire Tested: **I3-UL-30L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-UL-30L840-1D-UNV-STD-W-4  
Description: CORELITE I3, OPEN TOP  
3000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

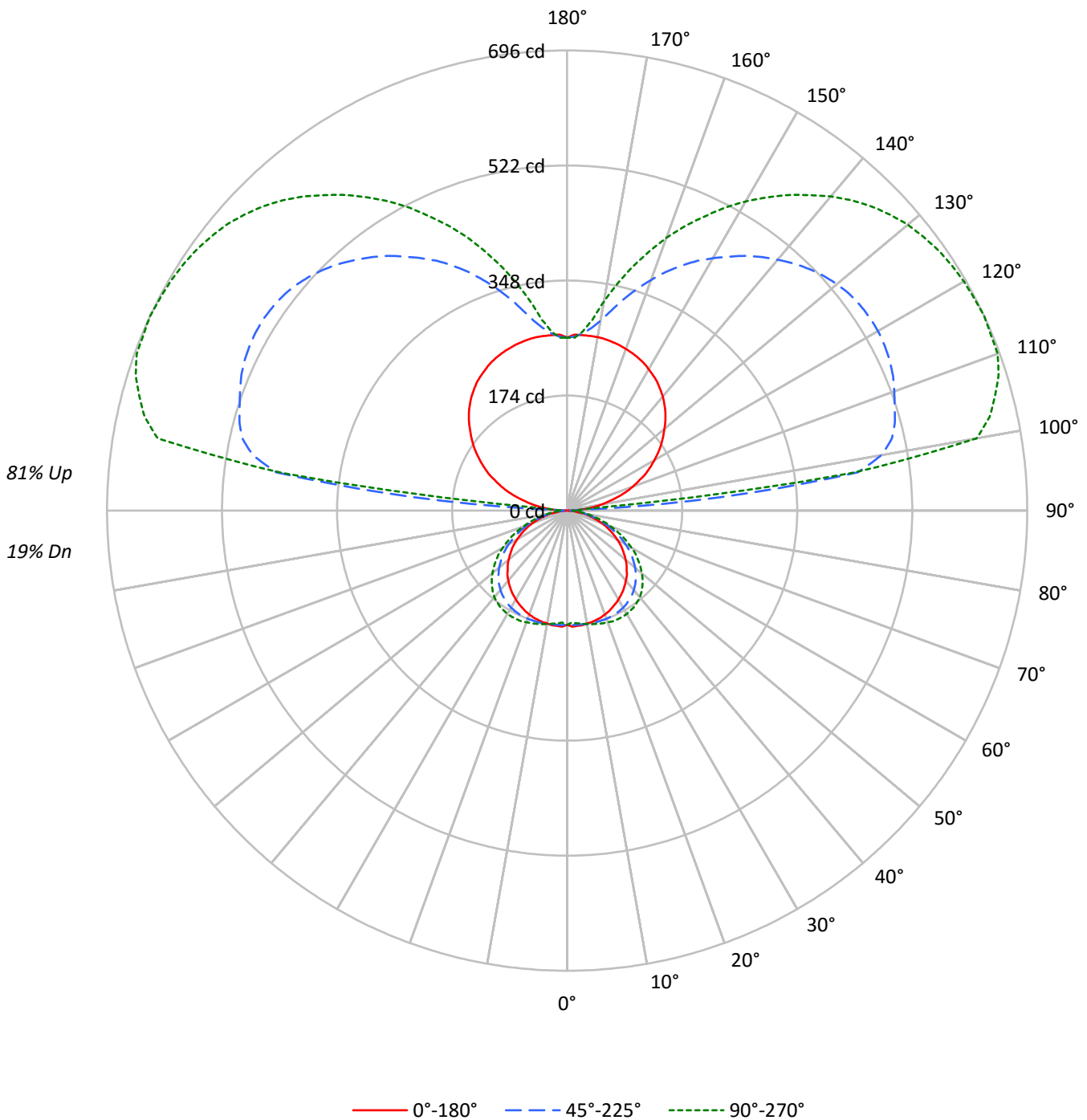
Lumens per Lamp: N/A  
Luminaire Lumens: 3169.6 lumens  
Efficiency: N/A  
Efficacy: 160.9 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 19.7  
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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4

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

	0°	45°	90°
0°	949	949	949
5°	962	935	917
10°	961	929	918
15°	963	925	926
20°	963	929	937
25°	962	931	951
30°	963	933	960
35°	962	928	965
40°	958	921	959
45°	949	902	938
50°	941	873	903
55°	924	830	852
60°	896	770	784
65°	857	686	699
70°	809	595	590
75°	702	466	473
80°	558	336	342
85°	331	195	226



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.5	0.5
10°-20°	49.2	1.6
20°-30°	79.2	2.5
30°-40°	102.0	3.2
40°-50°	112.0	3.5
50°-60°	105.3	3.3
60°-70°	81.8	2.6
70°-80°	46.9	1.5
80°-90°	15.0	0.5
90°-100°	202.6	6.4
100°-110°	481.5	15.2
110°-120°	483.7	15.3
120°-130°	443.6	14.0
130°-140°	370.9	11.7
140°-150°	278.4	8.8
150°-160°	181.2	5.7
160°-170°	93.3	2.9
170°-180°	26.4	0.8
0°-30°	145.0	4.6
0°-40°	247.0	7.8
0°-60°	464.3	14.6
0°-90°	608.0	19.2
90°-120°	1167.8	36.8
90°-150°	2260.7	71.3
90°-180°	2562.0	80.8
0°-180°	3169.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	173	173	173	173	173	
5°	175	173	173	173	171	17
15°	171	170	174	176	177	48
25°	162	163	173	179	181	75
35°	148	152	164	174	177	92
45°	127	134	147	158	161	98
55°	102	108	120	128	131	91
65°	72	76	83	90	92	71
75°	38	40	44	48	50	41
85°	8	9	12	16	17	9
90°	1	2	5	7	8	2
95°	27	226	233	31	27	27
105°	79	304	513	633	670	83
115°	130	342	538	655	696	128
125°	173	357	541	648	686	155
135°	210	355	517	615	651	162
145°	238	341	470	552	583	148
155°	255	312	408	468	491	118
165°	264	282	331	367	381	75
175°	266	266	269	272	272	25
180°	262	262	262	262	262	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	175.8	175.0	174.2	174.2	173.4	173.4	173.4	172.6	172.6	172.6	173.4
5°	175.0	175.0	174.2	173.4	173.4	173.4	172.6	172.6	172.6	172.6	173.4
7.5°	175.0	174.2	173.4	173.4	172.6	172.6	172.6	172.6	172.6	172.6	173.4
10°	173.4	173.4	172.6	172.6	171.9	172.6	172.6	172.6	172.6	172.6	174.2
12.5°	172.6	172.6	171.9	171.1	171.1	171.1	171.9	171.9	171.9	172.6	174.2
15°	171.1	171.1	170.3	170.3	170.3	170.3	171.1	171.1	171.9	172.6	174.2
17.5°	169.5	169.5	168.7	168.7	168.7	169.5	169.5	170.3	171.1	172.6	174.2
20°	167.2	167.2	167.2	167.2	167.2	167.9	167.9	168.7	170.3	171.9	174.2
22.5°	164.8	164.8	164.8	164.8	164.8	165.6	166.4	167.9	168.7	171.1	173.4
25°	161.7	161.7	161.7	161.7	162.5	163.3	164.0	165.6	167.2	169.5	172.6
27.5°	158.6	159.4	159.4	159.4	160.1	160.9	161.7	163.3	165.6	168.7	171.1
30°	155.4	155.4	155.4	156.2	157.0	157.8	159.4	160.9	163.3	166.4	169.5
32.5°	151.5	151.5	152.3	152.3	153.9	154.7	156.2	158.6	160.9	164.0	167.2
35°	147.6	147.6	147.6	149.2	150.0	151.5	152.3	154.7	157.8	160.9	164.0
37.5°	143.0	143.7	143.7	144.5	146.1	147.6	148.4	151.5	154.7	157.8	160.9
40°	138.3	139.0	139.0	139.8	142.2	143.0	144.5	147.6	150.0	153.9	157.0
42.5°	133.6	133.6	134.4	135.1	137.5	138.3	139.8	143.0	146.1	149.2	152.3
45°	127.3	128.1	128.9	129.7	132.0	133.6	135.1	137.5	140.6	143.7	146.9
47.5°	121.9	121.9	122.6	124.2	126.5	128.1	128.9	132.0	134.4	137.5	140.6
50°	115.6	116.4	116.4	118.0	120.3	121.9	122.6	125.8	128.1	131.2	134.4
52.5°	108.6	109.4	110.1	111.7	114.0	115.6	116.4	118.7	121.1	124.2	126.5
55°	102.3	103.1	103.1	104.7	107.0	107.8	109.4	110.9	114.0	116.4	119.5
57.5°	95.3	96.1	96.1	97.6	99.2	100.8	101.6	103.9	106.2	108.6	110.9
60°	87.5	88.3	89.1	89.8	91.4	93.0	93.7	95.3	97.6	100.0	102.3
62.5°	79.7	80.5	81.2	82.0	83.6	84.4	85.1	87.5	89.1	91.4	93.0
65°	71.9	72.6	73.4	74.2	75.0	75.8	76.6	78.1	79.7	82.0	82.8
67.5°	64.1	64.8	64.8	65.6	66.4	67.2	68.0	69.5	70.3	72.6	73.4
70°	56.2	56.2	56.2	57.0	57.0	57.8	58.6	60.1	60.9	62.5	64.1
72.5°	46.9	47.7	47.7	47.7	48.4	49.2	50.0	50.8	51.6	52.3	53.9
75°	38.3	39.1	38.3	39.1	39.8	39.8	40.6	41.4	42.2	43.0	43.7
77.5°	30.5	29.7	30.5	30.5	31.2	31.2	31.2	32.0	33.6	33.6	35.2
80°	21.9	21.9	21.9	21.9	22.7	22.7	23.4	23.4	25.0	25.8	26.6
82.5°	14.1	14.1	14.8	14.8	14.8	15.6	15.6	16.4	17.2	18.0	18.7
85°	7.8	7.8	7.8	8.6	8.6	9.4	9.4	10.2	10.9	11.7	12.5
87.5°	2.3	3.1	3.9	3.9	4.7	4.7	5.5	5.5	7.0	7.8	8.6
90°	0.8	0.8	1.6	1.6	1.6	2.3	2.3	3.1	3.1	3.9	4.7
92.5°	13.3	31.2	64.8	96.9	83.6	78.1	46.9	14.1	12.5	13.3	13.3
95°	27.3	51.6	94.5	153.1	198.4	226.5	245.3	281.2	317.9	311.7	232.8
97.5°	39.8	66.4	114.0	167.9	230.4	262.5	286.7	329.6	376.5	415.6	443.7
100°	52.3	79.7	130.5	186.7	244.5	273.4	301.5	360.1	406.2	445.3	482.8
102.5°	65.6	93.0	145.3	203.9	260.9	289.0	316.4	367.9	419.5	466.3	503.1
105°	78.9	107.0	158.6	218.7	275.7	303.9	330.4	379.6	427.3	471.0	513.2
107.5°	93.0	119.5	170.3	230.4	287.5	315.6	342.1	391.4	437.4	481.2	519.5
110°	105.5	131.2	182.0	241.4	298.4	326.5	353.1	402.3	447.6	489.0	526.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	117.2	142.2	192.9	250.8	307.0	335.1	360.9	410.1	455.4	496.0	533.5
115°	130.5	152.3	203.9	259.3	314.8	342.1	367.9	416.4	461.7	501.5	538.2
117.5°	141.4	162.5	213.3	266.4	321.1	347.6	372.6	421.0	465.6	505.4	541.3
120°	152.3	171.9	221.8	272.6	325.7	351.5	376.5	424.2	468.7	507.8	542.9
122.5°	163.3	181.2	228.9	278.9	329.6	355.4	379.6	426.5	470.3	508.5	542.9
125°	173.4	189.0	235.1	283.6	332.0	357.0	380.4	426.5	469.5	507.0	541.3
127.5°	182.8	197.6	239.8	288.2	333.6	357.8	380.4	424.9	467.9	504.6	538.2
130°	192.2	205.4	244.5	290.6	335.1	357.0	378.9	421.8	464.0	500.7	532.7
132.5°	201.5	214.0	248.4	292.9	335.9	357.0	377.3	418.7	459.3	495.3	525.7
135°	210.1	220.3	252.3	294.5	335.1	355.4	374.2	413.2	452.3	487.4	517.1
137.5°	217.9	226.5	255.4	295.3	334.3	353.1	371.8	407.0	443.7	478.1	507.0
140°	225.0	232.8	257.0	295.3	331.2	350.0	367.1	400.7	434.3	467.1	495.3
142.5°	231.2	238.3	259.3	293.7	328.1	346.1	362.5	394.5	424.9	456.2	483.5
145°	237.5	242.9	260.9	292.9	324.2	340.6	356.2	386.7	416.4	444.5	470.3
147.5°	242.2	247.6	262.5	289.8	319.5	334.3	349.2	378.1	405.4	432.0	455.4
150°	246.8	251.5	263.2	286.7	314.0	327.3	340.6	367.9	394.5	418.7	440.6
152.5°	251.5	254.7	265.6	283.6	307.8	320.3	333.6	357.8	382.0	404.6	425.7
155°	254.7	257.0	266.4	280.4	301.5	312.5	323.4	346.1	367.9	389.0	408.5
157.5°	257.8	260.1	267.2	278.1	294.5	304.7	314.0	333.6	353.9	372.6	390.6
160°	260.1	261.7	267.2	276.5	288.2	295.3	303.9	321.8	339.0	355.4	371.0
162.5°	262.5	263.2	267.2	274.2	282.8	287.5	293.7	307.8	323.4	337.5	351.5
165°	264.0	264.8	267.2	272.6	278.1	282.0	285.1	295.3	307.0	319.5	331.2
167.5°	265.6	265.6	267.2	271.1	274.2	276.5	278.9	284.3	292.2	301.5	310.1
170°	266.4	266.4	267.2	269.5	271.8	272.6	274.2	277.3	281.2	285.9	291.4
172.5°	266.4	266.4	266.4	267.9	268.7	268.7	268.7	270.3	272.6	275.7	278.1
175°	266.4	265.6	265.6	266.4	265.6	265.6	265.6	265.6	266.4	267.9	268.7
177.5°	266.4	265.6	264.8	264.8	264.0	264.0	263.2	263.2	263.2	263.2	263.2
180°	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	173.4	173.4	172.6	171.9	171.9	171.9	171.1	170.3	169.5	169.5
5°	173.4	173.4	172.6	172.6	172.6	172.6	171.9	171.9	171.1	171.1
7.5°	174.2	173.4	173.4	173.4	173.4	173.4	173.4	173.4	172.6	172.6
10°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2
12.5°	175.0	175.0	175.0	175.0	175.8	175.8	175.8	175.8	175.8	175.8
15°	175.0	175.8	176.5	176.5	176.5	177.3	177.3	177.3	177.3	177.3
17.5°	175.8	176.5	177.3	177.3	178.1	178.1	178.9	178.9	178.9	178.9
20°	175.8	176.5	177.3	178.1	178.9	178.9	179.7	180.4	180.4	179.7
22.5°	175.0	176.5	177.3	178.1	178.9	179.7	180.4	181.2	181.2	181.2
25°	174.2	175.8	177.3	178.9	178.9	179.7	181.2	181.2	181.2	181.2
27.5°	173.4	175.0	176.5	178.1	178.9	179.7	180.4	181.2	181.2	181.2
30°	171.9	174.2	175.8	177.3	178.1	178.9	179.7	180.4	180.4	180.4
32.5°	169.5	171.9	173.4	175.8	176.5	177.3	178.1	178.9	178.9	178.9
35°	167.2	169.5	171.1	173.4	174.2	175.0	176.5	176.5	177.3	177.3
37.5°	163.3	166.4	167.9	170.3	171.1	171.9	173.4	174.2	174.2	174.2
40°	159.4	162.5	164.0	166.4	167.2	167.9	169.5	170.3	171.1	171.1
42.5°	154.7	157.8	159.4	161.7	162.5	163.3	164.8	165.6	166.4	166.4
45°	150.0	152.3	153.9	156.2	157.8	157.8	159.4	160.1	160.9	160.9
47.5°	143.7	146.1	147.6	150.0	151.5	152.3	153.1	153.9	154.7	154.7
50°	136.7	139.0	141.4	143.0	144.5	144.5	146.1	146.9	147.6	147.6
52.5°	129.7	131.2	133.6	135.9	136.7	137.5	138.3	139.0	139.8	139.8
55°	121.9	123.4	125.8	127.3	128.1	128.9	129.7	130.5	131.2	131.2
57.5°	113.3	114.8	117.2	118.7	119.5	120.3	121.1	121.9	122.6	122.6
60°	103.9	105.5	107.8	109.4	110.1	110.1	111.7	112.5	112.5	112.5
62.5°	94.5	96.1	97.6	99.2	100.0	100.8	101.6	102.3	102.3	102.3
65°	85.1	86.7	88.3	89.1	89.8	89.8	90.6	91.4	92.2	92.2
67.5°	75.0	76.6	78.1	78.9	79.7	79.7	80.5	81.2	81.2	81.2
70°	64.8	65.6	67.2	68.0	68.7	68.7	70.3	70.3	70.3	70.3
72.5°	54.7	55.5	57.0	57.8	58.6	58.6	59.4	60.1	60.1	60.1
75°	45.3	46.1	46.9	48.4	48.4	48.4	49.2	50.0	50.0	50.0
77.5°	35.9	36.7	37.5	38.3	39.1	39.1	39.8	40.6	40.6	40.6
80°	27.3	28.1	28.9	29.7	29.7	30.5	30.5	31.2	31.2	31.2
82.5°	19.5	20.3	21.1	21.9	22.7	22.7	23.4	24.2	24.2	23.4
85°	13.3	14.8	15.6	16.4	16.4	16.4	17.2	18.0	18.0	17.2
87.5°	9.4	9.4	10.2	10.9	10.9	11.7	11.7	12.5	12.5	12.5
90°	5.5	5.5	6.2	6.2	7.0	7.0	7.0	7.8	7.8	7.8
92.5°	13.3	13.3	14.1	14.1	14.1	14.1	14.8	14.8	14.8	14.8
95°	142.2	64.1	53.9	32.8	31.2	27.3	26.6	27.3	27.3	26.6
97.5°	477.3	510.9	532.0	542.1	529.6	516.3	501.5	499.2	478.8	433.5
100°	514.8	541.3	567.1	585.1	592.1	598.4	612.4	621.0	624.9	628.8
102.5°	533.5	561.7	584.3	607.0	616.3	624.9	637.4	647.6	651.5	654.6
105°	549.9	578.8	603.8	624.1	632.7	640.5	653.0	662.4	669.4	670.2
107.5°	553.8	584.3	612.4	637.4	647.6	656.2	671.0	678.0	684.3	684.3
110°	560.9	589.8	615.5	638.2	648.4	658.5	674.1	685.1	691.3	692.9





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CATALOG NUMBER: I3-UL-30L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	566.3	596.0	620.2	642.9	651.5	660.9	675.7	685.9	691.3	693.7
115°	571.0	599.9	624.1	645.2	654.6	664.0	678.8	687.4	693.7	696.0
117.5°	574.1	602.3	626.5	646.0	656.2	664.0	678.0	687.4	693.7	694.4
120°	574.9	603.1	626.5	646.0	654.6	663.2	677.3	686.6	692.9	692.9
122.5°	574.9	602.3	625.7	644.5	652.3	660.1	673.4	684.3	689.8	689.8
125°	571.8	599.1	621.8	640.5	648.4	655.4	669.4	679.6	685.1	685.9
127.5°	567.1	593.7	616.3	635.1	642.9	649.1	664.0	673.4	678.8	679.6
130°	560.9	587.4	609.3	627.3	635.1	642.1	654.6	664.8	671.0	672.6
132.5°	553.8	578.8	600.7	617.9	625.7	632.0	644.5	654.6	660.1	662.4
135°	545.2	568.7	589.8	607.0	614.8	621.0	632.7	642.9	648.4	650.7
137.5°	534.3	557.0	577.3	594.5	601.5	607.7	619.5	628.8	633.5	636.6
140°	521.8	542.9	564.0	579.6	586.6	592.9	603.1	613.2	617.9	620.2
142.5°	508.5	529.6	548.4	564.0	570.2	576.5	586.6	596.0	600.7	601.5
145°	494.5	514.8	532.0	546.8	552.3	558.5	567.9	577.3	582.0	582.7
147.5°	478.8	497.6	514.0	528.1	534.3	539.0	547.6	556.2	560.9	561.7
150°	460.9	478.1	492.9	507.0	512.4	517.1	526.5	534.3	539.0	539.8
152.5°	443.7	460.1	472.6	485.1	490.6	495.3	503.1	510.9	515.6	516.3
155°	425.7	440.6	453.1	463.2	467.9	472.6	478.8	485.9	489.8	490.6
157.5°	407.0	421.0	432.0	441.4	446.0	449.9	455.4	461.7	464.0	465.6
160°	386.7	398.4	407.8	417.1	421.0	424.9	430.4	435.1	438.2	439.0
162.5°	364.8	375.0	382.8	391.4	393.7	396.8	402.3	407.0	409.3	410.1
165°	342.1	351.5	358.5	365.6	367.1	369.5	373.4	378.1	379.6	381.2
167.5°	319.5	327.3	332.0	338.2	340.6	342.1	346.1	349.2	350.7	351.5
170°	297.6	303.1	307.0	311.7	312.5	314.8	317.1	320.3	321.1	321.1
172.5°	280.4	282.8	285.1	286.7	287.5	288.2	289.8	290.6	290.6	290.6
175°	269.5	271.1	271.1	271.8	271.8	271.8	271.8	271.8	271.8	271.8
177.5°	263.2	263.2	263.2	262.5	262.5	262.5	262.5	261.7	261.7	261.7
180°	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7

(END OF REPORT)