

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: P395044

Luminaire Tested: **I3-FL-40L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395044  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-FL-40L940-1D-UNV-STD-W-4  
Description: CORELITE I3, FROSTED TOP COVER  
4000 LUMENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

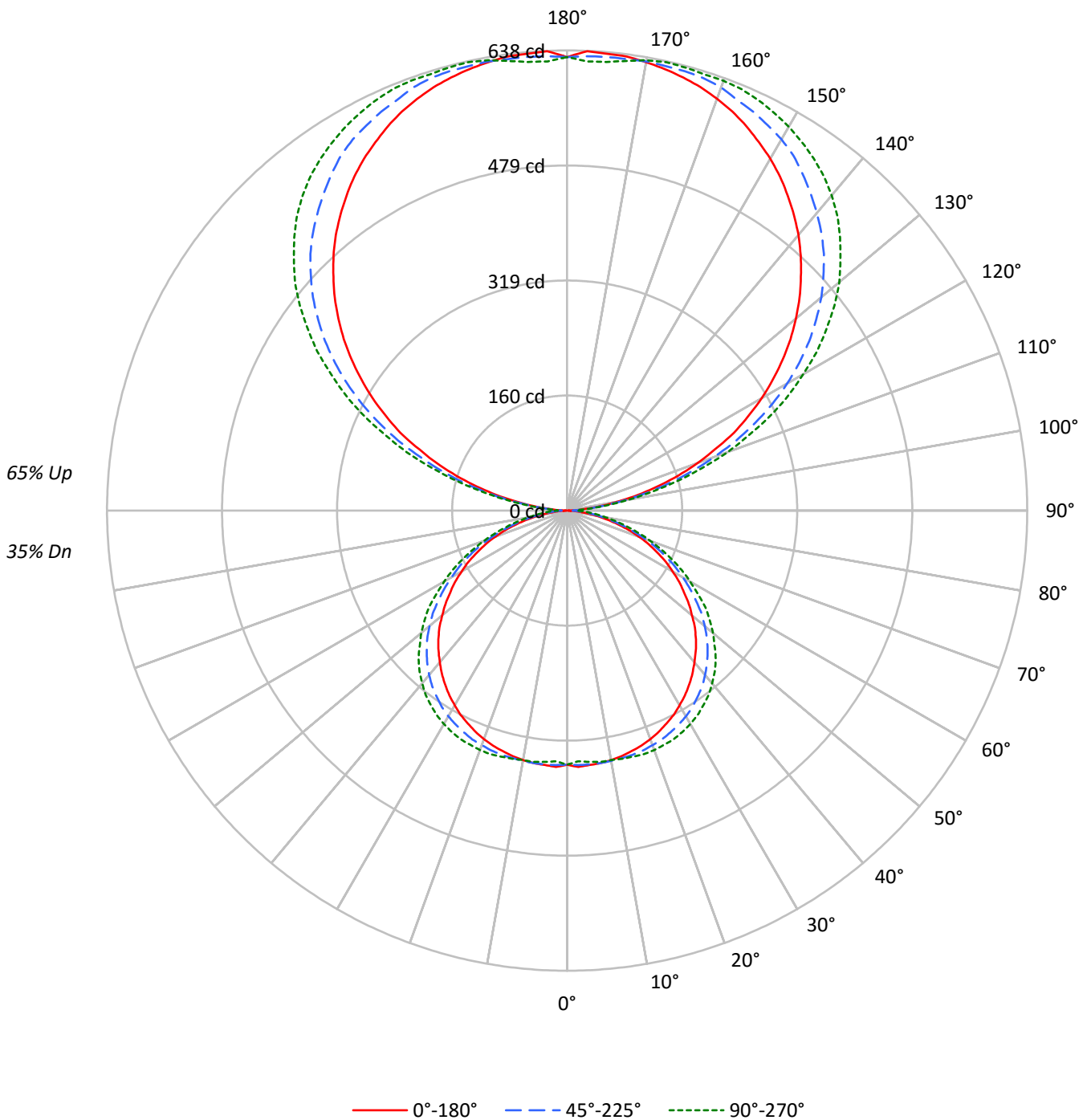
Lumens per Lamp: N/A  
Luminaire Lumens: 3238.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 28  
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



TEST NUMBER: P395044  
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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°	1936	1936	1936
5°	1946	1904	1875
10°	1947	1878	1852
15°	1943	1862	1845
20°	1943	1846	1842
25°	1937	1830	1836
30°	1931	1812	1819
35°	1922	1783	1792
40°	1902	1746	1753
45°	1883	1692	1699
50°	1839	1617	1616
55°	1787	1515	1519
60°	1727	1396	1372
65°	1641	1251	1219
70°	1525	1066	1029
75°	1327	848	819
80°	1035	602	599
85°	560	345	393



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.6	1.0
10°-20°	98.8	3.1
20°-30°	155.8	4.8
30°-40°	195.8	6.0
40°-50°	210.5	6.5
50°-60°	193.7	6.0
60°-70°	148.4	4.6
70°-80°	84.5	2.6
80°-90°	26.4	0.8
90°-100°	35.3	1.1
100°-110°	153.5	4.7
110°-120°	280.9	8.7
120°-130°	362.1	11.2
130°-140°	385.3	11.9
140°-150°	354.5	10.9
150°-160°	280.9	8.7
160°-170°	177.8	5.5
170°-180°	60.2	1.9
0°-30°	288.2	8.9
0°-40°	484.0	14.9
0°-60°	888.2	27.4
0°-90°	1147.5	35.4
90°-120°	469.7	14.5
90°-150°	1571.6	48.5
90°-180°	2091.0	64.6
0°-180°	3238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	354	351	353	351	350	34
15°	345	344	351	353	353	98
25°	326	327	339	347	350	150
35°	295	298	315	326	329	184
45°	252	259	276	287	291	194
55°	198	206	218	230	234	177
65°	138	142	151	158	161	137
75°	72	74	80	84	86	77
85°	13	17	22	28	30	17
90°	1	3	8	12	13	2
95°	24	23	26	29	30	30
105°	130	136	147	155	158	138
115°	255	267	288	303	311	250
125°	365	381	410	430	439	326
135°	458	473	503	524	535	354
145°	533	545	570	586	596	334
155°	588	595	610	622	628	271
165°	622	622	630	635	636	176
175°	636	631	631	629	624	61
180°	629	629	629	629	629	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3
2.5°	355.8	355.0	354.1	352.3	352.3	351.4	351.4	351.4	351.4	352.3	353.2
5°	354.1	354.1	353.2	351.4	351.4	350.6	350.6	351.4	350.6	351.4	353.2
7.5°	353.2	353.2	352.3	350.6	350.6	350.6	350.6	350.6	350.6	351.4	353.2
10°	351.4	351.4	349.7	348.8	348.8	348.8	348.8	349.7	349.7	350.6	352.3
12.5°	348.8	347.9	347.0	346.1	346.1	346.1	347.0	347.9	347.9	349.7	351.4
15°	345.3	345.3	344.4	343.5	343.5	343.5	344.4	345.3	346.1	347.9	350.6
17.5°	341.7	341.7	340.8	340.8	340.8	340.8	341.7	342.6	344.4	346.1	348.8
20°	337.3	337.3	336.4	336.4	336.4	337.3	337.3	339.1	340.8	343.5	346.1
22.5°	332.0	332.0	332.0	331.1	332.0	332.9	333.8	335.5	337.3	340.0	343.5
25°	325.8	325.8	325.8	325.8	326.7	326.7	328.5	330.2	332.0	335.5	339.1
27.5°	319.6	319.6	319.6	318.8	320.5	321.4	322.3	324.9	326.7	331.1	334.7
30°	311.7	311.7	311.7	312.6	313.5	314.3	316.1	318.8	320.5	324.9	329.4
32.5°	303.8	303.8	303.8	303.8	306.4	307.3	308.2	310.8	314.3	318.8	323.2
35°	294.9	294.9	294.9	295.8	297.6	298.5	300.2	302.9	306.4	310.8	315.2
37.5°	285.2	286.1	286.1	287.0	288.7	290.5	292.3	294.9	298.5	302.9	307.3
40°	274.6	275.5	275.5	276.4	278.1	279.9	281.7	285.2	288.7	293.2	297.6
42.5°	264.0	264.9	264.9	266.7	268.4	270.2	272.0	275.5	279.0	283.4	287.0
45°	252.5	253.4	253.4	255.2	257.8	258.7	261.4	264.9	268.4	272.0	275.5
47.5°	240.2	241.1	241.1	242.8	245.5	247.2	249.0	252.5	255.2	259.6	263.1
50°	226.0	226.9	227.8	229.6	233.1	234.9	236.6	239.3	242.8	245.5	249.0
52.5°	212.8	212.8	213.7	215.5	218.1	219.9	220.8	223.4	227.8	231.3	234.9
55°	197.8	198.7	199.6	201.3	204.0	205.7	206.6	209.3	211.9	214.6	218.1
57.5°	184.5	184.5	185.4	187.2	189.8	190.7	191.6	193.4	196.9	199.6	202.2
60°	168.7	169.5	170.4	172.2	174.0	175.7	175.7	178.4	181.0	183.7	185.4
62.5°	154.5	154.5	155.4	157.2	158.1	159.8	159.8	162.5	164.2	166.9	168.7
65°	137.7	138.6	139.5	140.4	142.2	142.2	143.0	144.8	146.6	148.3	151.0
67.5°	122.7	122.7	123.6	124.5	125.4	125.4	126.3	128.0	129.8	131.6	133.3
70°	106.0	106.8	106.8	106.8	107.7	108.6	109.5	110.4	112.1	113.0	114.8
72.5°	89.2	89.2	90.1	90.1	90.9	91.8	92.7	93.6	94.5	96.2	97.1
75°	72.4	72.4	73.3	73.3	74.2	74.2	74.2	75.9	76.8	78.6	79.5
77.5°	55.6	56.5	56.5	56.5	57.4	58.3	58.3	59.2	60.9	61.8	62.7
80°	40.6	40.6	40.6	40.6	41.5	42.4	43.3	43.3	45.0	46.8	47.7
82.5°	25.6	25.6	26.5	27.4	27.4	28.3	29.1	30.0	31.8	32.7	33.6
85°	13.2	13.2	14.1	15.0	15.9	16.8	16.8	17.7	19.4	21.2	22.1
87.5°	4.4	5.3	5.3	6.2	7.1	7.9	8.8	9.7	11.5	13.2	14.1
90°	0.9	0.9	0.9	1.8	2.6	2.6	3.5	4.4	5.3	6.2	7.9
92.5°	7.9	7.9	7.1	7.9	7.9	7.9	7.9	8.8	9.7	9.7	11.5
95°	23.8	23.0	23.0	23.0	23.0	23.0	23.0	23.8	24.7	24.7	25.6
97.5°	45.9	45.9	45.0	45.0	45.9	45.9	45.9	46.8	48.6	47.7	49.4
100°	71.5	71.5	70.6	71.5	72.4	73.3	75.1	75.1	76.8	76.8	79.5
102.5°	100.7	100.7	99.8	101.5	102.4	104.2	104.2	106.0	108.6	108.6	112.1
105°	129.8	130.7	130.7	132.4	134.2	136.0	136.0	138.6	142.2	142.2	146.6
107.5°	161.6	162.5	162.5	164.2	166.0	167.8	168.7	172.2	175.7	176.6	181.9
110°	192.5	193.4	194.3	196.0	197.8	200.4	202.2	205.7	210.2	211.9	216.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	221.6	225.2	226.0	228.7	231.3	234.0	235.8	240.2	245.5	248.1	253.4
115°	255.2	257.0	257.8	260.5	264.0	266.7	268.4	272.8	278.1	281.7	287.9
117.5°	282.6	287.0	287.9	290.5	294.0	296.7	298.5	303.8	309.9	314.3	320.5
120°	311.7	315.2	318.8	320.5	323.2	326.7	328.5	333.8	340.8	345.3	352.3
122.5°	338.2	341.7	345.3	347.9	351.4	353.2	355.8	362.0	369.1	374.4	381.5
125°	364.7	369.1	371.7	374.4	378.8	380.6	383.2	389.4	396.5	402.6	409.7
127.5°	390.3	392.9	397.4	399.1	403.5	405.3	407.9	415.0	422.1	428.3	435.3
130°	414.1	417.7	421.2	422.1	427.4	430.0	432.7	438.9	446.8	453.0	460.0
132.5°	437.1	438.9	443.3	445.9	450.3	453.0	455.6	460.9	468.9	475.1	482.1
135°	458.3	460.0	465.3	468.0	470.6	473.3	476.8	482.1	490.1	496.2	503.3
137.5°	479.5	481.2	486.5	489.2	490.9	493.6	496.2	501.5	509.5	515.7	521.9
140°	498.9	500.7	504.2	507.7	509.5	511.3	513.9	519.2	526.3	532.4	538.6
142.5°	516.6	518.3	521.9	525.4	528.0	528.0	530.7	535.1	543.0	549.2	554.5
145°	533.3	534.2	537.7	541.3	544.8	544.8	545.7	550.1	557.2	564.2	569.5
147.5°	549.2	550.1	552.8	556.3	558.9	559.8	561.6	563.4	570.4	577.5	583.7
150°	563.4	564.2	566.0	569.5	571.3	573.1	574.8	575.7	581.0	587.2	594.3
152.5°	575.7	576.6	578.4	581.0	582.8	584.5	586.3	589.0	591.6	597.8	602.2
155°	588.1	589.0	589.8	592.5	594.3	595.1	596.0	599.6	602.2	605.7	610.2
157.5°	598.7	598.7	599.6	601.3	603.1	603.1	604.0	607.5	610.2	613.7	616.3
160°	607.5	607.5	608.4	610.2	610.2	611.0	611.9	614.6	616.3	620.7	624.3
162.5°	615.5	614.6	615.5	616.3	616.3	616.3	617.2	619.0	621.6	625.2	628.7
165°	621.6	621.6	621.6	622.5	622.5	621.6	621.6	623.4	625.2	627.8	630.5
167.5°	626.9	626.9	626.0	626.9	626.0	626.0	625.2	626.0	626.9	629.6	631.3
170°	631.3	630.5	630.5	630.5	629.6	628.7	628.7	628.7	628.7	630.5	632.2
172.5°	634.9	634.0	633.1	633.1	631.3	630.5	630.5	629.6	629.6	630.5	631.3
175°	635.8	634.9	634.0	634.0	632.2	631.3	630.5	630.5	629.6	630.5	631.3
177.5°	637.5	636.6	634.9	634.9	633.1	631.3	631.3	630.5	629.6	630.5	630.5
180°	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3
2.5°	354.1	354.1	353.2	352.3	352.3	351.4	350.6	349.7	348.8	347.9
5°	354.1	353.2	352.3	352.3	351.4	351.4	351.4	350.6	349.7	349.7
7.5°	354.1	354.1	353.2	352.3	352.3	352.3	352.3	352.3	351.4	351.4
10°	354.1	353.2	353.2	353.2	352.3	353.2	353.2	352.3	352.3	351.4
12.5°	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	352.3
15°	351.4	352.3	352.3	353.2	353.2	353.2	354.1	354.1	353.2	353.2
17.5°	350.6	351.4	352.3	353.2	353.2	353.2	354.1	354.1	354.1	354.1
20°	348.8	349.7	350.6	351.4	351.4	352.3	352.3	353.2	353.2	353.2
22.5°	345.3	346.1	347.9	348.8	349.7	350.6	351.4	351.4	351.4	351.4
25°	341.7	343.5	344.4	346.1	347.0	347.9	348.8	348.8	348.8	349.7
27.5°	337.3	339.1	341.7	342.6	343.5	344.4	345.3	346.1	346.1	346.1
30°	332.0	334.7	336.4	338.2	339.1	340.0	340.8	340.8	341.7	341.7
32.5°	325.8	328.5	330.2	332.0	332.9	333.8	335.5	335.5	336.4	336.4
35°	317.9	320.5	323.2	324.9	325.8	326.7	328.5	329.4	329.4	329.4
37.5°	309.9	312.6	315.2	317.9	318.8	319.6	321.4	321.4	322.3	322.3
40°	300.2	302.9	305.5	308.2	308.2	309.9	310.8	311.7	312.6	312.6
42.5°	290.5	293.2	294.9	297.6	298.5	299.3	300.2	302.0	302.0	302.9
45°	279.0	281.7	283.4	286.1	287.0	287.9	289.6	290.5	291.4	291.4
47.5°	266.7	268.4	270.2	272.8	274.6	275.5	276.4	277.3	278.1	277.3
50°	252.5	254.3	257.0	259.6	260.5	261.4	263.1	263.1	264.0	264.0
52.5°	237.5	240.2	241.9	244.6	245.5	246.4	248.1	248.1	249.0	249.0
55°	220.8	222.5	224.3	228.7	229.6	230.5	232.2	232.2	233.1	234.0
57.5°	204.9	205.7	208.4	210.2	211.9	211.9	212.8	213.7	214.6	214.6
60°	188.1	189.0	190.7	193.4	193.4	194.3	196.0	196.0	196.9	196.9
62.5°	170.4	172.2	174.0	176.6	175.7	176.6	178.4	178.4	179.2	179.2
65°	152.8	153.6	155.4	157.2	158.1	158.1	158.9	159.8	160.7	160.7
67.5°	134.2	136.0	136.9	139.5	138.6	139.5	140.4	140.4	141.3	141.3
70°	116.6	117.4	119.2	120.1	120.1	121.0	121.9	121.9	121.9	122.7
72.5°	98.9	99.8	100.7	101.5	101.5	102.4	103.3	103.3	104.2	104.2
75°	80.4	82.1	83.0	84.8	83.9	84.8	86.5	86.5	86.5	86.5
77.5°	64.5	65.3	67.1	68.0	68.0	68.0	69.8	68.9	69.8	69.8
80°	48.6	49.4	51.2	52.1	52.1	53.0	53.9	53.9	53.9	54.7
82.5°	34.4	36.2	38.0	38.9	38.9	39.7	40.6	40.6	41.5	41.5
85°	23.8	25.6	27.4	27.4	28.3	29.1	30.0	30.0	30.0	30.0
87.5°	15.9	16.8	17.7	18.5	19.4	19.4	20.3	20.3	21.2	21.2
90°	8.8	9.7	10.6	11.5	11.5	12.4	12.4	13.2	13.2	13.2
92.5°	12.4	12.4	13.2	14.1	14.1	14.1	14.1	15.0	15.0	15.0
95°	26.5	27.4	27.4	29.1	29.1	29.1	30.0	30.0	30.0	30.0
97.5°	51.2	51.2	51.2	53.0	53.0	53.0	53.9	53.9	53.9	54.7
100°	80.4	81.2	81.2	83.9	83.0	84.8	84.8	84.8	84.8	85.7
102.5°	113.0	114.8	115.7	118.3	118.3	118.3	120.1	119.2	120.1	120.1
105°	148.3	150.1	151.0	153.6	155.4	155.4	157.2	156.3	157.2	158.1
107.5°	183.7	186.3	188.1	190.7	192.5	193.4	193.4	194.3	195.1	196.0
110°	219.9	222.5	226.9	229.6	230.5	232.2	233.1	234.0	234.9	236.6





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	257.8	260.5	264.0	267.5	266.7	269.3	271.1	272.0	272.8	272.0
115°	292.3	295.8	299.3	302.9	302.9	304.6	308.2	309.0	309.0	310.8
117.5°	324.9	329.4	332.9	336.4	337.3	339.1	341.7	344.4	344.4	346.1
120°	356.7	362.0	365.6	369.1	370.9	371.7	374.4	377.9	377.9	377.9
122.5°	386.8	391.2	395.6	399.1	400.9	402.6	404.4	408.8	408.8	410.6
125°	415.0	420.3	424.7	428.3	430.0	431.8	435.3	438.0	438.9	438.9
127.5°	441.5	446.8	451.2	455.6	456.5	458.3	461.8	465.3	466.2	467.1
130°	466.2	471.5	475.9	480.4	482.1	483.0	487.4	490.1	491.8	492.7
132.5°	488.3	493.6	498.0	502.4	504.2	506.0	508.6	513.0	513.9	513.9
135°	508.6	513.9	518.3	523.6	524.5	526.3	529.8	532.4	534.2	535.1
137.5°	527.2	532.4	537.7	542.2	543.9	544.8	548.3	551.9	553.6	554.5
140°	543.9	549.2	554.5	558.1	558.9	561.6	564.2	567.8	569.5	570.4
142.5°	559.8	564.2	568.7	573.1	574.0	575.7	578.4	581.9	583.7	584.5
145°	574.0	578.4	581.9	585.4	586.3	588.1	590.7	593.4	595.1	596.0
147.5°	587.2	590.7	594.3	596.9	597.8	599.6	601.3	603.1	604.9	605.7
150°	598.7	600.4	604.0	605.7	606.6	608.4	610.2	611.9	613.7	614.6
152.5°	607.5	610.2	611.9	614.6	615.5	616.3	618.1	619.9	621.6	621.6
155°	614.6	617.2	619.0	621.6	622.5	623.4	625.2	626.0	627.8	627.8
157.5°	619.9	622.5	624.3	626.0	626.9	627.8	628.7	630.5	632.2	632.2
160°	626.0	626.9	627.8	629.6	629.6	630.5	631.3	632.2	634.0	634.0
162.5°	631.3	632.2	630.5	631.3	630.5	631.3	632.2	633.1	634.0	634.0
165°	633.1	634.9	634.0	634.9	634.9	634.9	634.9	635.8	635.8	635.8
167.5°	633.1	634.9	634.0	634.0	634.9	634.9	635.8	636.6	636.6	636.6
170°	633.1	634.0	633.1	632.2	633.1	633.1	633.1	634.0	634.0	634.0
172.5°	632.2	633.1	631.3	630.5	630.5	630.5	629.6	629.6	628.7	628.7
175°	631.3	631.3	629.6	628.7	628.7	628.7	626.9	626.0	625.2	624.3
177.5°	630.5	630.5	627.8	626.9	626.9	626.0	626.0	624.3	624.3	623.4
180°	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7

(END OF REPORT)