

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: P395047

Luminaire Tested: **I3-FL-50L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395047
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-50L940-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4075.5 lumens
Efficiency: N/A
Efficacy: 121.7 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

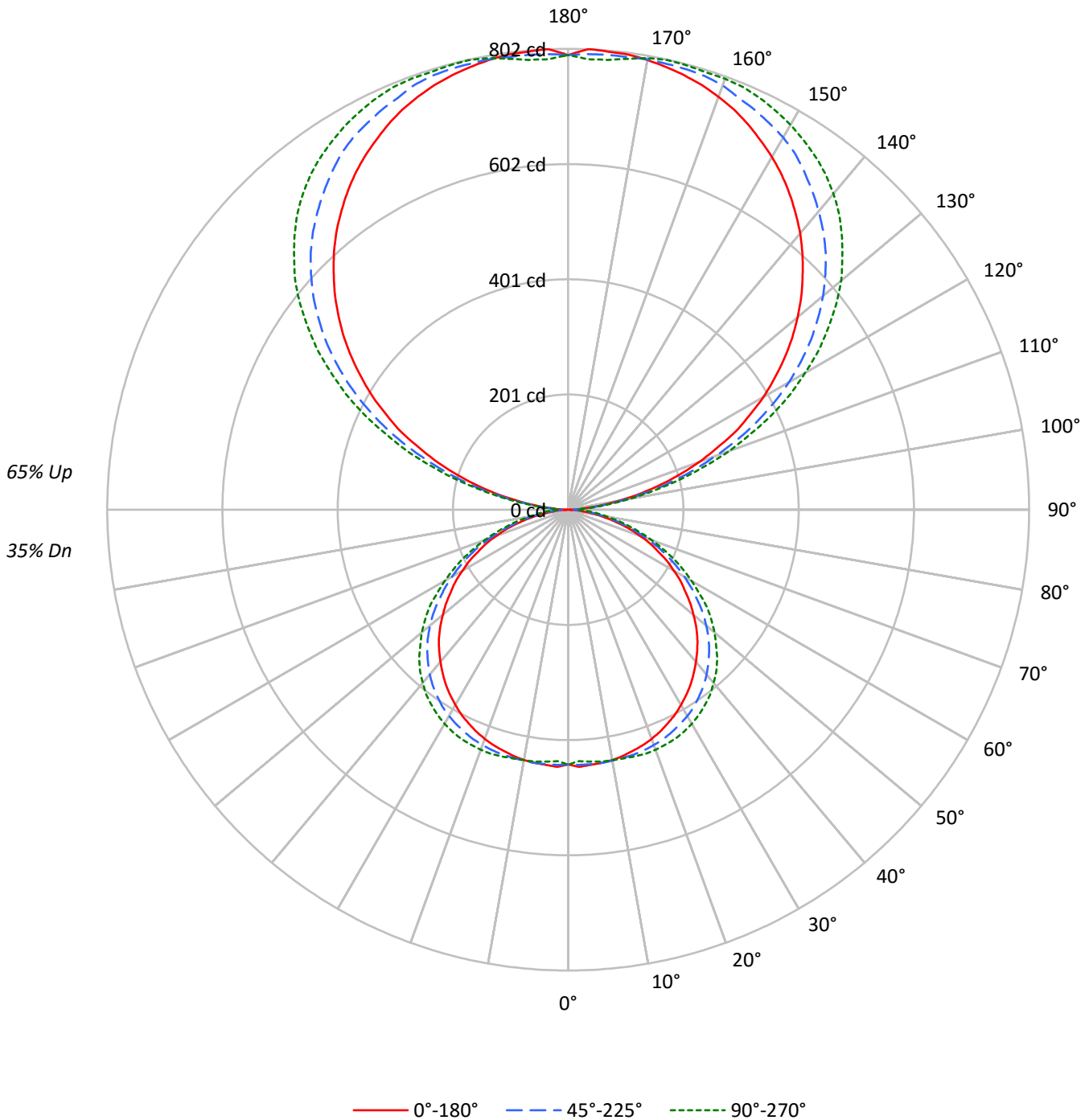
Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2437	2437	2437
5°	2450	2397	2359
10°	2450	2364	2332
15°	2445	2344	2322
20°	2445	2324	2319
25°	2439	2303	2310
30°	2430	2281	2289
35°	2419	2244	2256
40°	2394	2198	2206
45°	2370	2130	2138
50°	2315	2035	2034
55°	2249	1907	1912
60°	2174	1757	1728
65°	2065	1574	1534
70°	1918	1342	1296
75°	1670	1066	1031
80°	1303	757	755
85°	709	434	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.0
10°-20°	124.4	3.1
20°-30°	196.1	4.8
30°-40°	246.5	6.0
40°-50°	265.0	6.5
50°-60°	243.8	6.0
60°-70°	186.8	4.6
70°-80°	106.3	2.6
80°-90°	33.2	0.8
90°-100°	44.4	1.1
100°-110°	193.2	4.7
110°-120°	353.6	8.7
120°-130°	455.8	11.2
130°-140°	485.0	11.9
140°-150°	446.2	10.9
150°-160°	353.5	8.7
160°-170°	223.8	5.5
170°-180°	75.8	1.9
0°-30°	362.7	8.9
0°-40°	609.2	14.9
0°-60°	1118.0	27.4
0°-90°	1444.3	35.4
90°-120°	591.2	14.5
90°-150°	1978.1	48.5
90°-180°	2631.0	64.6
0°-180°	4075.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	446	441	445	442	440	42
15°	434	432	441	445	445	123
25°	410	411	427	437	440	189
35°	371	376	397	410	415	232
45°	318	326	347	361	367	245
55°	249	259	274	289	294	223
65°	173	179	190	199	202	172
75°	91	93	100	106	109	96
85°	17	21	28	36	38	21
90°	1	3	10	14	17	2
95°	30	29	32	37	38	37
105°	163	171	184	196	199	174
115°	321	336	362	381	391	315
125°	459	479	516	541	552	410
135°	577	596	634	660	674	445
145°	671	686	717	738	750	420
155°	740	749	768	784	790	341
165°	782	782	794	799	800	221
175°	800	795	795	791	786	76
180°	791	791	791	791	791	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	447.9	446.8	445.7	443.4	443.4	442.3	442.3	442.3	442.3	443.4	444.6
5°	445.7	445.7	444.6	442.3	442.3	441.2	441.2	442.3	441.2	442.3	444.6
7.5°	444.6	444.6	443.4	441.2	441.2	441.2	441.2	441.2	441.2	442.3	444.6
10°	442.3	442.3	440.1	439.0	439.0	439.0	439.0	440.1	440.1	441.2	443.4
12.5°	439.0	437.9	436.7	435.7	435.7	435.7	436.7	437.9	437.9	440.1	442.3
15°	434.5	434.5	433.5	432.3	432.3	432.3	433.5	434.5	435.7	437.9	441.2
17.5°	430.1	430.1	429.0	429.0	429.0	429.0	430.1	431.3	433.5	435.7	439.0
20°	424.5	424.5	423.4	423.4	423.4	424.5	424.5	426.8	429.0	432.3	435.7
22.5°	417.8	417.8	417.8	416.8	417.8	419.0	420.1	422.3	424.5	427.9	432.3
25°	410.1	410.1	410.1	410.1	411.2	411.2	413.4	415.6	417.8	422.3	426.8
27.5°	402.3	402.3	402.3	401.2	403.4	404.5	405.7	409.0	411.2	416.8	421.2
30°	392.3	392.3	392.3	393.5	394.5	395.7	397.9	401.2	403.4	409.0	414.6
32.5°	382.3	382.3	382.3	382.3	385.6	386.8	387.9	391.2	395.7	401.2	406.8
35°	371.2	371.2	371.2	372.3	374.6	375.6	377.8	381.2	385.6	391.2	396.7
37.5°	358.9	360.1	360.1	361.2	363.4	365.7	367.9	371.2	375.6	381.2	386.8
40°	345.6	346.8	346.8	347.9	350.1	352.3	354.5	358.9	363.4	369.0	374.6
42.5°	332.3	333.4	333.4	335.6	337.8	340.0	342.3	346.8	351.2	356.7	361.2
45°	317.9	318.9	318.9	321.1	324.5	325.7	329.0	333.4	337.8	342.3	346.8
47.5°	302.3	303.4	303.4	305.6	309.0	311.2	313.4	317.9	321.1	326.7	331.2
50°	284.5	285.7	286.7	288.9	293.4	295.6	297.8	301.2	305.6	309.0	313.4
52.5°	267.8	267.8	269.0	271.2	274.5	276.7	277.9	281.1	286.7	291.2	295.6
55°	248.9	250.1	251.2	253.4	256.7	259.0	260.0	263.4	266.8	270.0	274.5
57.5°	232.3	232.3	233.4	235.6	238.9	240.1	241.1	243.4	247.9	251.2	254.5
60°	212.3	213.4	214.5	216.7	219.0	221.2	221.2	224.5	227.8	231.2	233.4
62.5°	194.5	194.5	195.6	197.8	198.9	201.1	201.1	204.5	206.7	210.1	212.3
65°	173.3	174.5	175.6	176.7	178.9	178.9	180.0	182.3	184.5	186.8	190.0
67.5°	154.5	154.5	155.6	156.7	157.8	157.8	158.9	161.1	163.4	165.6	167.9
70°	133.3	134.5	134.5	134.5	135.6	136.7	137.8	138.9	141.1	142.3	144.5
72.5°	112.2	112.2	113.4	113.4	114.4	115.6	116.7	117.8	118.9	121.1	122.2
75°	91.1	91.1	92.3	92.3	93.3	93.3	93.3	95.5	96.7	98.9	100.0
77.5°	70.0	71.2	71.2	71.2	72.2	73.4	73.4	74.4	76.6	77.8	78.9
80°	51.1	51.1	51.1	51.1	52.3	53.3	54.5	54.5	56.7	58.9	60.0
82.5°	32.2	32.2	33.4	34.4	34.4	35.6	36.6	37.8	40.0	41.1	42.2
85°	16.7	16.7	17.7	18.9	20.0	21.1	21.1	22.3	24.5	26.7	27.8
87.5°	5.6	6.7	6.7	7.8	8.9	10.0	11.1	12.2	14.5	16.7	17.7
90°	1.1	1.1	1.1	2.2	3.4	3.4	4.4	5.6	6.7	7.8	10.0
92.5°	10.0	10.0	8.9	10.0	10.0	10.0	10.0	11.1	12.2	12.2	14.5
95°	30.0	28.9	28.9	28.9	28.9	28.9	28.9	30.0	31.1	31.1	32.2
97.5°	57.7	57.7	56.7	56.7	57.7	57.7	57.7	58.9	61.1	60.0	62.3
100°	90.0	90.0	88.9	90.0	91.1	92.3	94.5	94.5	96.7	96.7	100.0
102.5°	126.7	126.7	125.6	127.8	128.9	131.1	131.1	133.3	136.7	136.7	141.1
105°	163.4	164.5	164.5	166.7	168.9	171.1	171.1	174.5	178.9	178.9	184.5
107.5°	203.4	204.5	204.5	206.7	208.9	211.1	212.3	216.7	221.2	222.3	229.0
110°	242.3	243.4	244.5	246.7	248.9	252.3	254.5	259.0	264.5	266.8	272.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	278.9	283.4	284.5	287.9	291.2	294.5	296.8	302.3	309.0	312.3	318.9
115°	321.1	323.4	324.5	327.9	332.3	335.6	337.8	343.4	350.1	354.5	362.3
117.5°	355.7	361.2	362.3	365.7	370.1	373.4	375.6	382.3	390.1	395.7	403.4
120°	392.3	396.7	401.2	403.4	406.8	411.2	413.4	420.1	429.0	434.5	443.4
122.5°	425.7	430.1	434.5	437.9	442.3	444.6	447.9	455.6	464.5	471.3	480.1
125°	459.0	464.5	467.9	471.3	476.8	479.0	482.3	490.2	499.0	506.8	515.7
127.5°	491.2	494.6	500.1	502.3	507.9	510.1	513.5	522.4	531.2	539.0	547.9
130°	521.2	525.6	530.2	531.2	537.9	541.3	544.5	552.3	562.4	570.2	579.0
132.5°	550.1	552.3	557.9	561.2	566.8	570.2	573.5	580.1	590.1	597.9	606.8
135°	576.8	579.0	585.7	589.0	592.4	595.7	600.2	606.8	616.8	624.6	633.5
137.5°	603.4	605.7	612.4	615.7	617.9	621.3	624.6	631.3	641.2	649.0	656.9
140°	627.9	630.1	634.6	639.0	641.2	643.4	646.8	653.5	662.3	670.2	678.0
142.5°	650.2	652.4	656.9	661.3	664.6	664.6	667.9	673.5	683.5	691.3	697.9
145°	671.3	672.4	676.8	681.2	685.7	685.7	686.8	692.4	701.3	710.2	716.8
147.5°	691.3	692.4	695.7	700.1	703.5	704.6	706.8	709.0	718.0	726.8	734.7
150°	709.0	710.2	712.4	716.8	719.0	721.3	723.5	724.6	731.3	739.1	748.0
152.5°	724.6	725.7	727.9	731.3	733.5	735.7	737.9	741.3	744.6	752.4	758.0
155°	740.2	741.3	742.4	745.7	748.0	749.0	750.2	754.6	758.0	762.4	767.9
157.5°	753.6	753.6	754.6	756.8	759.0	759.0	760.2	764.6	767.9	772.4	775.7
160°	764.6	764.6	765.7	767.9	767.9	769.1	770.2	773.5	775.7	781.3	785.8
162.5°	774.7	773.5	774.7	775.7	775.7	775.7	776.9	779.1	782.4	786.8	791.3
165°	782.4	782.4	782.4	783.5	783.5	782.4	782.4	784.6	786.8	790.2	793.6
167.5°	789.0	789.0	788.0	789.0	788.0	788.0	786.8	788.0	789.0	792.4	794.6
170°	794.6	793.6	793.6	793.6	792.4	791.3	791.3	791.3	791.3	793.6	795.8
172.5°	799.1	798.0	796.8	796.8	794.6	793.6	793.6	792.4	792.4	793.6	794.6
175°	800.2	799.1	798.0	798.0	795.8	794.6	793.6	793.6	792.4	793.6	794.6
177.5°	802.4	801.3	799.1	799.1	796.8	794.6	794.6	793.6	792.4	793.6	793.6
180°	791.3	791.3	791.3	791.3	791.3	791.3	791.3	791.3	791.3	791.3	791.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	445.7	445.7	444.6	443.4	443.4	442.3	441.2	440.1	439.0	437.9
5°	445.7	444.6	443.4	443.4	442.3	442.3	442.3	441.2	440.1	440.1
7.5°	445.7	445.7	444.6	443.4	443.4	443.4	443.4	443.4	442.3	442.3
10°	445.7	444.6	444.6	444.6	443.4	444.6	444.6	443.4	443.4	442.3
12.5°	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	443.4
15°	442.3	443.4	443.4	444.6	444.6	444.6	445.7	445.7	444.6	444.6
17.5°	441.2	442.3	443.4	444.6	444.6	444.6	445.7	445.7	445.7	445.7
20°	439.0	440.1	441.2	442.3	442.3	443.4	443.4	444.6	444.6	444.6
22.5°	434.5	435.7	437.9	439.0	440.1	441.2	442.3	442.3	442.3	442.3
25°	430.1	432.3	433.5	435.7	436.7	437.9	439.0	439.0	439.0	440.1
27.5°	424.5	426.8	430.1	431.3	432.3	433.5	434.5	435.7	435.7	435.7
30°	417.8	421.2	423.4	425.7	426.8	427.9	429.0	429.0	430.1	430.1
32.5°	410.1	413.4	415.6	417.8	419.0	420.1	422.3	422.3	423.4	423.4
35°	400.1	403.4	406.8	409.0	410.1	411.2	413.4	414.6	414.6	414.6
37.5°	390.1	393.5	396.7	400.1	401.2	402.3	404.5	404.5	405.7	405.7
40°	377.8	381.2	384.5	387.9	387.9	390.1	391.2	392.3	393.5	393.5
42.5°	365.7	369.0	371.2	374.6	375.6	376.8	377.8	380.1	380.1	381.2
45°	351.2	354.5	356.7	360.1	361.2	362.3	364.5	365.7	366.7	366.7
47.5°	335.6	337.8	340.0	343.4	345.6	346.8	347.9	349.0	350.1	349.0
50°	317.9	320.1	323.4	326.7	327.9	329.0	331.2	331.2	332.3	332.3
52.5°	299.0	302.3	304.5	307.8	309.0	310.1	312.3	312.3	313.4	313.4
55°	277.9	280.1	282.3	287.9	288.9	290.1	292.3	292.3	293.4	294.5
57.5°	257.8	259.0	262.3	264.5	266.8	266.8	267.8	269.0	270.0	270.0
60°	236.7	237.8	240.1	243.4	243.4	244.5	246.7	246.7	247.9	247.9
62.5°	214.5	216.7	219.0	222.3	221.2	222.3	224.5	224.5	225.6	225.6
65°	192.2	193.4	195.6	197.8	198.9	198.9	200.1	201.1	202.3	202.3
67.5°	168.9	171.1	172.3	175.6	174.5	175.6	176.7	176.7	177.8	177.8
70°	146.7	147.8	150.0	151.2	151.2	152.2	153.4	153.4	153.4	154.5
72.5°	124.5	125.6	126.7	127.8	127.8	128.9	130.1	130.1	131.1	131.1
75°	101.1	103.4	104.5	106.7	105.6	106.7	108.9	108.9	108.9	108.9
77.5°	81.1	82.2	84.5	85.6	85.6	85.6	87.8	86.7	87.8	87.8
80°	61.1	62.3	64.5	65.6	65.6	66.7	67.8	67.8	67.8	68.9
82.5°	43.4	45.6	47.8	48.9	48.9	50.0	51.1	51.1	52.3	52.3
85°	30.0	32.2	34.4	34.4	35.6	36.6	37.8	37.8	37.8	37.8
87.5°	20.0	21.1	22.3	23.3	24.5	24.5	25.5	25.5	26.7	26.7
90°	11.1	12.2	13.3	14.5	14.5	15.5	15.5	16.7	16.7	16.7
92.5°	15.5	15.5	16.7	17.7	17.7	17.7	17.7	18.9	18.9	18.9
95°	33.4	34.4	34.4	36.6	36.6	36.6	37.8	37.8	37.8	37.8
97.5°	64.5	64.5	64.5	66.7	66.7	66.7	67.8	67.8	67.8	68.9
100°	101.1	102.3	102.3	105.6	104.5	106.7	106.7	106.7	106.7	107.8
102.5°	142.3	144.5	145.6	149.0	149.0	149.0	151.2	150.0	151.2	151.2
105°	186.8	189.0	190.0	193.4	195.6	195.6	197.8	196.7	197.8	198.9
107.5°	231.2	234.5	236.7	240.1	242.3	243.4	243.4	244.5	245.7	246.7
110°	276.7	280.1	285.7	288.9	290.1	292.3	293.4	294.5	295.6	297.8



TEST NUMBER: P395047

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	324.5	327.9	332.3	336.8	335.6	339.0	341.2	342.3	343.4	342.3
115°	367.9	372.3	376.8	381.2	381.2	383.4	387.9	389.0	389.0	391.2
117.5°	409.0	414.6	419.0	423.4	424.5	426.8	430.1	433.5	433.5	435.7
120°	449.0	455.6	460.1	464.5	466.8	467.9	471.3	475.7	475.7	475.7
122.5°	486.8	492.4	497.9	502.3	504.5	506.8	509.0	514.5	514.5	516.8
125°	522.4	529.0	534.6	539.0	541.3	543.5	547.9	551.3	552.3	552.3
127.5°	555.7	562.4	567.9	573.5	574.6	576.8	581.3	585.7	586.8	587.9
130°	586.8	593.5	599.0	604.6	606.8	607.9	613.5	616.8	619.1	620.1
132.5°	614.6	621.3	626.8	632.4	634.6	636.8	640.2	645.7	646.8	646.8
135°	640.2	646.8	652.4	659.1	660.1	662.3	666.8	670.2	672.4	673.5
137.5°	663.5	670.2	676.8	682.4	684.6	685.7	690.2	694.6	696.9	697.9
140°	684.6	691.3	697.9	702.4	703.5	706.8	710.2	714.6	716.8	718.0
142.5°	704.6	710.2	715.8	721.3	722.4	724.6	727.9	732.4	734.7	735.7
145°	722.4	727.9	732.4	736.9	737.9	740.2	743.5	746.8	749.0	750.2
147.5°	739.1	743.5	748.0	751.3	752.4	754.6	756.8	759.0	761.3	762.4
150°	753.6	755.8	760.2	762.4	763.5	765.7	767.9	770.2	772.4	773.5
152.5°	764.6	767.9	770.2	773.5	774.7	775.7	777.9	780.2	782.4	782.4
155°	773.5	776.9	779.1	782.4	783.5	784.6	786.8	788.0	790.2	790.2
157.5°	780.2	783.5	785.8	788.0	789.0	790.2	791.3	793.6	795.8	795.8
160°	788.0	789.0	790.2	792.4	792.4	793.6	794.6	795.8	798.0	798.0
162.5°	794.6	795.8	793.6	794.6	793.6	794.6	795.8	796.8	798.0	798.0
165°	796.8	799.1	798.0	799.1	799.1	799.1	799.1	800.2	800.2	800.2
167.5°	796.8	799.1	798.0	798.0	799.1	799.1	800.2	801.3	801.3	801.3
170°	796.8	798.0	796.8	795.8	796.8	796.8	796.8	798.0	798.0	798.0
172.5°	795.8	796.8	794.6	793.6	793.6	793.6	792.4	792.4	791.3	791.3
175°	794.6	794.6	792.4	791.3	791.3	791.3	789.0	788.0	786.8	785.8
177.5°	793.6	793.6	790.2	789.0	789.0	788.0	788.0	785.8	785.8	784.6
180°	791.3	791.3	791.3	791.3	791.3	791.3	791.3	791.3	791.3	791.3

(END OF REPORT)