

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: P393812

Luminaire Tested: **I3-FL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393812
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-50L835-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4615.5 lumens
Efficiency: N/A
Efficacy: 137.8 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

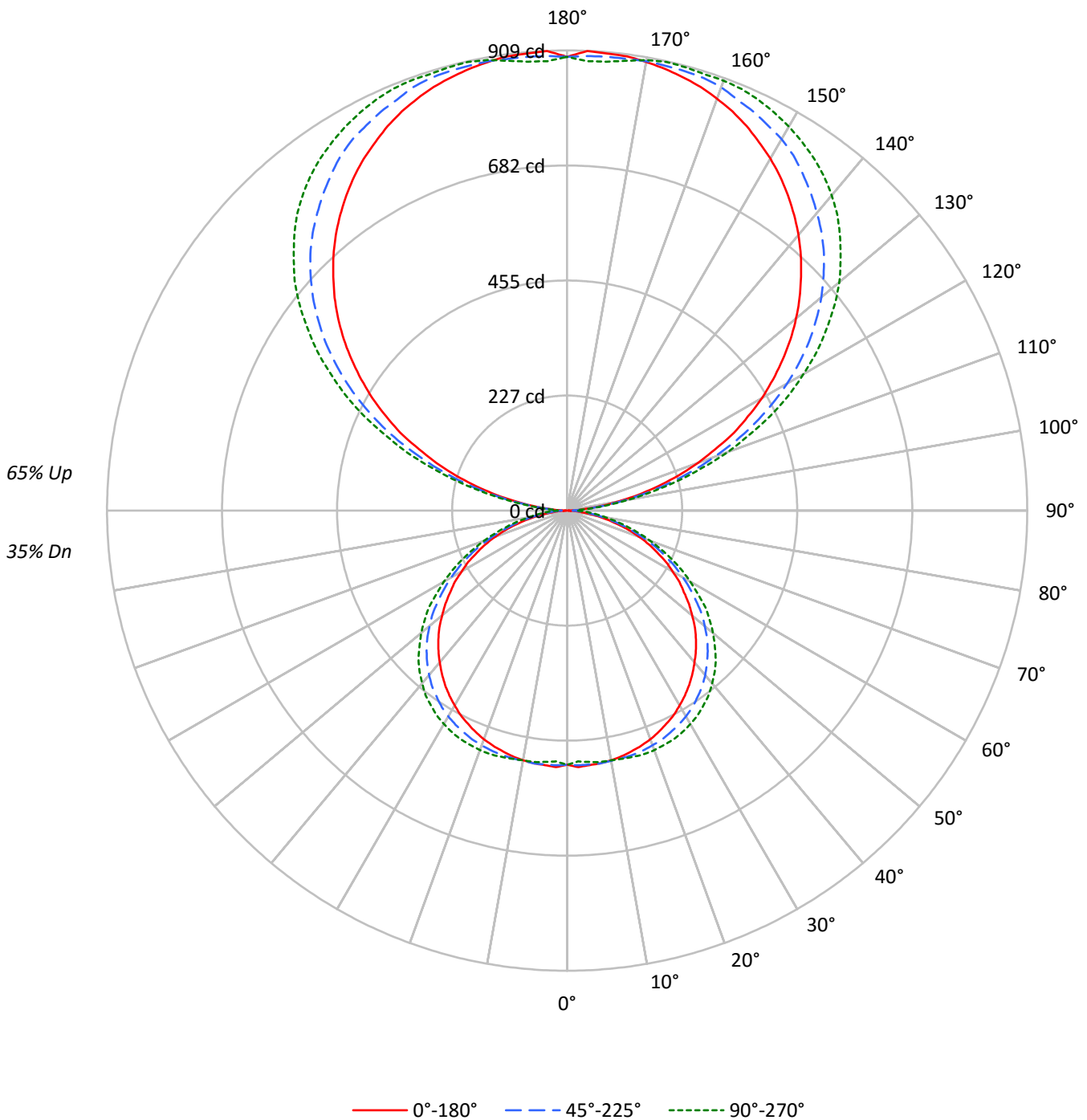
Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2760	2760	2760
5°	2774	2715	2672
10°	2775	2677	2640
15°	2769	2654	2630
20°	2769	2631	2626
25°	2762	2608	2616
30°	2752	2583	2593
35°	2739	2542	2554
40°	2712	2489	2498
45°	2684	2412	2421
50°	2622	2305	2303
55°	2547	2160	2165
60°	2461	1990	1956
65°	2340	1783	1738
70°	2173	1520	1468
75°	1891	1208	1167
80°	1476	858	854
85°	802	492	561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.0
10°-20°	140.8	3.1
20°-30°	222.1	4.8
30°-40°	279.1	6.0
40°-50°	300.1	6.5
50°-60°	276.1	6.0
60°-70°	211.5	4.6
70°-80°	120.4	2.6
80°-90°	37.6	0.8
90°-100°	50.3	1.1
100°-110°	218.7	4.7
110°-120°	400.5	8.7
120°-130°	516.2	11.2
130°-140°	549.2	11.9
140°-150°	505.3	10.9
150°-160°	400.3	8.7
160°-170°	253.5	5.5
170°-180°	85.8	1.9
0°-30°	410.8	8.9
0°-40°	689.9	14.9
0°-60°	1266.1	27.4
0°-90°	1635.6	35.4
90°-120°	669.5	14.5
90°-150°	2240.2	48.5
90°-180°	2980.0	64.6
0°-180°	4615.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	505	500	504	501	498	48
15°	492	490	500	504	504	139
25°	464	466	483	495	498	214
35°	420	425	449	464	470	263
45°	360	369	393	409	415	277
55°	282	293	311	327	334	253
65°	196	203	215	225	229	195
75°	103	106	113	120	123	109
85°	19	24	32	40	43	24
90°	1	4	11	16	19	3
95°	34	33	36	42	43	42
105°	185	194	209	222	225	197
115°	364	380	410	432	443	357
125°	520	542	584	613	626	464
135°	653	675	717	748	763	504
145°	760	777	812	836	850	476
155°	838	848	870	887	895	386
165°	886	886	899	905	906	250
175°	906	900	900	896	890	86
180°	896	896	896	896	896	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	502.2	502.2	502.2	502.2	502.2	502.2	502.2	502.2	502.2	502.2	502.2
2.5°	507.2	506.0	504.7	502.2	502.2	500.9	500.9	500.9	500.9	502.2	503.5
5°	504.7	504.7	503.5	500.9	500.9	499.7	499.7	500.9	499.7	500.9	503.5
7.5°	503.5	503.5	502.2	499.7	499.7	499.7	499.7	499.7	499.7	500.9	503.5
10°	500.9	500.9	498.4	497.2	497.2	497.2	497.2	498.4	498.4	499.7	502.2
12.5°	497.2	495.9	494.6	493.4	493.4	493.4	494.6	495.9	495.9	498.4	500.9
15°	492.1	492.1	490.9	489.6	489.6	489.6	490.9	492.1	493.4	495.9	499.7
17.5°	487.1	487.1	485.8	485.8	485.8	485.8	487.1	488.4	490.9	493.4	497.2
20°	480.8	480.8	479.5	479.5	479.5	480.8	480.8	483.3	485.8	489.6	493.4
22.5°	473.2	473.2	473.2	472.0	473.2	474.5	475.8	478.3	480.8	484.6	489.6
25°	464.4	464.4	464.4	464.4	465.7	465.7	468.2	470.7	473.2	478.3	483.3
27.5°	455.6	455.6	455.6	454.4	456.9	458.1	459.4	463.2	465.7	472.0	477.0
30°	444.3	444.3	444.3	445.6	446.8	448.1	450.6	454.4	456.9	463.2	469.5
32.5°	433.0	433.0	433.0	433.0	436.7	438.0	439.3	443.0	448.1	454.4	460.7
35°	420.4	420.4	420.4	421.6	424.2	425.4	427.9	431.7	436.7	443.0	449.3
37.5°	406.5	407.8	407.8	409.1	411.6	414.1	416.6	420.4	425.4	431.7	438.0
40°	391.4	392.7	392.7	394.0	396.5	399.0	401.5	406.5	411.6	417.9	424.2
42.5°	376.3	377.6	377.6	380.1	382.6	385.1	387.7	392.7	397.7	404.0	409.1
45°	360.0	361.2	361.2	363.7	367.5	368.8	372.6	377.6	382.6	387.7	392.7
47.5°	342.3	343.6	343.6	346.1	349.9	352.4	354.9	360.0	363.7	370.0	375.1
50°	322.2	323.5	324.7	327.2	332.3	334.8	337.3	341.1	346.1	349.9	354.9
52.5°	303.3	303.3	304.6	307.1	310.9	313.4	314.7	318.4	324.7	329.8	334.8
55°	281.9	283.2	284.5	287.0	290.7	293.3	294.5	298.3	302.1	305.8	310.9
57.5°	263.1	263.1	264.3	266.8	270.6	271.9	273.1	275.6	280.7	284.5	288.2
60°	240.4	241.7	242.9	245.4	248.0	250.5	250.5	254.2	258.0	261.8	264.3
62.5°	220.3	220.3	221.5	224.0	225.3	227.8	227.8	231.6	234.1	237.9	240.4
65°	196.3	197.6	198.9	200.1	202.6	202.6	203.9	206.4	208.9	211.5	215.2
67.5°	175.0	175.0	176.2	177.5	178.7	178.7	180.0	182.5	185.0	187.5	190.1
70°	151.0	152.3	152.3	152.3	153.6	154.8	156.1	157.3	159.8	161.1	163.6
72.5°	127.1	127.1	128.4	128.4	129.6	130.9	132.2	133.4	134.7	137.2	138.4
75°	103.2	103.2	104.5	104.5	105.7	105.7	105.7	108.2	109.5	112.0	113.3
77.5°	79.3	80.6	80.6	80.6	81.8	83.1	83.1	84.3	86.8	88.1	89.4
80°	57.9	57.9	57.9	57.9	59.2	60.4	61.7	61.7	64.2	66.7	68.0
82.5°	36.5	36.5	37.8	39.0	39.0	40.3	41.5	42.8	45.3	46.6	47.8
85°	18.9	18.9	20.1	21.4	22.7	23.9	23.9	25.2	27.7	30.2	31.5
87.5°	6.3	7.6	7.6	8.8	10.1	11.3	12.6	13.8	16.4	18.9	20.1
90°	1.3	1.3	1.3	2.5	3.8	3.8	5.0	6.3	7.6	8.8	11.3
92.5°	11.3	11.3	10.1	11.3	11.3	11.3	11.3	12.6	13.8	13.8	16.4
95°	34.0	32.7	32.7	32.7	32.7	32.7	32.7	34.0	35.2	35.2	36.5
97.5°	65.4	65.4	64.2	64.2	65.4	65.4	65.4	66.7	69.2	68.0	70.5
100°	101.9	101.9	100.7	101.9	103.2	104.5	107.0	107.0	109.5	109.5	113.3
102.5°	143.5	143.5	142.2	144.7	146.0	148.5	148.5	151.0	154.8	154.8	159.8
105°	185.0	186.3	186.3	188.8	191.3	193.8	193.8	197.6	202.6	202.6	208.9
107.5°	230.3	231.6	231.6	234.1	236.6	239.1	240.4	245.4	250.5	251.7	259.3
110°	274.4	275.6	276.9	279.4	281.9	285.7	288.2	293.3	299.6	302.1	308.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	315.9	321.0	322.2	326.0	329.8	333.5	336.1	342.3	349.9	353.7	361.2
115°	363.7	366.3	367.5	371.3	376.3	380.1	382.6	388.9	396.5	401.5	410.3
117.5°	402.8	409.1	410.3	414.1	419.1	422.9	425.4	433.0	441.8	448.1	456.9
120°	444.3	449.3	454.4	456.9	460.7	465.7	468.2	475.8	485.8	492.1	502.2
122.5°	482.1	487.1	492.1	495.9	500.9	503.5	507.2	516.0	526.1	533.7	543.7
125°	519.8	526.1	529.9	533.7	540.0	542.5	546.2	555.1	565.1	573.9	584.0
127.5°	556.3	560.1	566.4	568.9	575.2	577.7	581.5	591.6	601.6	610.4	620.5
130°	590.3	595.3	600.4	601.6	609.2	613.0	616.7	625.5	636.9	645.7	655.7
132.5°	623.0	625.5	631.8	635.6	641.9	645.7	649.5	657.0	668.3	677.1	687.2
135°	653.2	655.7	663.3	667.1	670.9	674.6	679.7	687.2	698.5	707.4	717.4
137.5°	683.4	686.0	693.5	697.3	699.8	703.6	707.4	714.9	726.2	735.0	743.9
140°	711.1	713.6	718.7	723.7	726.2	728.7	732.5	740.1	750.1	759.0	767.8
142.5°	736.3	738.8	743.9	748.9	752.7	752.7	756.4	762.7	774.1	782.9	790.4
145°	760.2	761.5	766.5	771.5	776.6	776.6	777.8	784.1	794.2	804.3	811.8
147.5°	782.9	784.1	787.9	792.9	796.7	798.0	800.5	803.0	813.1	823.1	832.0
150°	803.0	804.3	806.8	811.8	814.3	816.9	819.4	820.6	828.2	837.0	847.1
152.5°	820.6	821.9	824.4	828.2	830.7	833.2	835.7	839.5	843.3	852.1	858.4
155°	838.3	839.5	840.8	844.5	847.1	848.3	849.6	854.6	858.4	863.4	869.7
157.5°	853.4	853.4	854.6	857.1	859.6	859.6	860.9	865.9	869.7	874.8	878.5
160°	865.9	865.9	867.2	869.7	869.7	871.0	872.2	876.0	878.5	884.8	889.9
162.5°	877.3	876.0	877.3	878.5	878.5	878.5	879.8	882.3	886.1	891.1	896.1
165°	886.1	886.1	886.1	887.3	887.3	886.1	886.1	888.6	891.1	894.9	898.7
167.5°	893.6	893.6	892.4	893.6	892.4	892.4	891.1	892.4	893.6	897.4	899.9
170°	899.9	898.7	898.7	898.7	897.4	896.1	896.1	896.1	896.1	898.7	901.2
172.5°	905.0	903.7	902.4	902.4	899.9	898.7	898.7	897.4	897.4	898.7	899.9
175°	906.2	905.0	903.7	903.7	901.2	899.9	898.7	898.7	897.4	898.7	899.9
177.5°	908.7	907.5	905.0	905.0	902.4	899.9	899.9	898.7	897.4	898.7	898.7
180°	896.1	896.1	896.1	896.1	896.1	896.1	896.1	896.1	896.1	896.1	896.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	502.2	502.2	502.2	502.2	502.2	502.2	502.2	502.2	502.2	502.2
2.5°	504.7	504.7	503.5	502.2	502.2	500.9	499.7	498.4	497.2	495.9
5°	504.7	503.5	502.2	502.2	500.9	500.9	500.9	499.7	498.4	498.4
7.5°	504.7	504.7	503.5	502.2	502.2	502.2	502.2	502.2	500.9	500.9
10°	504.7	503.5	503.5	503.5	502.2	503.5	503.5	502.2	502.2	500.9
12.5°	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5	502.2
15°	500.9	502.2	502.2	503.5	503.5	503.5	504.7	504.7	503.5	503.5
17.5°	499.7	500.9	502.2	503.5	503.5	503.5	504.7	504.7	504.7	504.7
20°	497.2	498.4	499.7	500.9	500.9	502.2	502.2	503.5	503.5	503.5
22.5°	492.1	493.4	495.9	497.2	498.4	499.7	500.9	500.9	500.9	500.9
25°	487.1	489.6	490.9	493.4	494.6	495.9	497.2	497.2	497.2	498.4
27.5°	480.8	483.3	487.1	488.4	489.6	490.9	492.1	493.4	493.4	493.4
30°	473.2	477.0	479.5	482.1	483.3	484.6	485.8	485.8	487.1	487.1
32.5°	464.4	468.2	470.7	473.2	474.5	475.8	478.3	478.3	479.5	479.5
35°	453.1	456.9	460.7	463.2	464.4	465.7	468.2	469.5	469.5	469.5
37.5°	441.8	445.6	449.3	453.1	454.4	455.6	458.1	458.1	459.4	459.4
40°	427.9	431.7	435.5	439.3	439.3	441.8	443.0	444.3	445.6	445.6
42.5°	414.1	417.9	420.4	424.2	425.4	426.7	427.9	430.5	430.5	431.7
45°	397.7	401.5	404.0	407.8	409.1	410.3	412.8	414.1	415.3	415.3
47.5°	380.1	382.6	385.1	388.9	391.4	392.7	394.0	395.2	396.5	395.2
50°	360.0	362.5	366.3	370.0	371.3	372.6	375.1	375.1	376.3	376.3
52.5°	338.6	342.3	344.9	348.6	349.9	351.2	353.7	353.7	354.9	354.9
55°	314.7	317.2	319.7	326.0	327.2	328.5	331.0	331.0	332.3	333.5
57.5°	292.0	293.3	297.0	299.6	302.1	302.1	303.3	304.6	305.8	305.8
60°	268.1	269.3	271.9	275.6	275.6	276.9	279.4	279.4	280.7	280.7
62.5°	242.9	245.4	248.0	251.7	250.5	251.7	254.2	254.2	255.5	255.5
65°	217.7	219.0	221.5	224.0	225.3	225.3	226.6	227.8	229.1	229.1
67.5°	191.3	193.8	195.1	198.9	197.6	198.9	200.1	200.1	201.4	201.4
70°	166.1	167.4	169.9	171.2	171.2	172.4	173.7	173.7	173.7	175.0
72.5°	141.0	142.2	143.5	144.7	144.7	146.0	147.3	147.3	148.5	148.5
75°	114.5	117.1	118.3	120.8	119.6	120.8	123.3	123.3	123.3	123.3
77.5°	91.9	93.1	95.7	96.9	96.9	96.9	99.4	98.2	99.4	99.4
80°	69.2	70.5	73.0	74.3	74.3	75.5	76.8	76.8	76.8	78.0
82.5°	49.1	51.6	54.1	55.4	55.4	56.6	57.9	57.9	59.2	59.2
85°	34.0	36.5	39.0	39.0	40.3	41.5	42.8	42.8	42.8	42.8
87.5°	22.7	23.9	25.2	26.4	27.7	27.7	28.9	28.9	30.2	30.2
90°	12.6	13.8	15.1	16.4	16.4	17.6	17.6	18.9	18.9	18.9
92.5°	17.6	17.6	18.9	20.1	20.1	20.1	20.1	21.4	21.4	21.4
95°	37.8	39.0	39.0	41.5	41.5	41.5	42.8	42.8	42.8	42.8
97.5°	73.0	73.0	73.0	75.5	75.5	75.5	76.8	76.8	76.8	78.0
100°	114.5	115.8	115.8	119.6	118.3	120.8	120.8	120.8	120.8	122.1
102.5°	161.1	163.6	164.9	168.7	168.7	168.7	171.2	169.9	171.2	171.2
105°	211.5	214.0	215.2	219.0	221.5	221.5	224.0	222.8	224.0	225.3
107.5°	261.8	265.6	268.1	271.9	274.4	275.6	275.6	276.9	278.2	279.4
110°	313.4	317.2	323.5	327.2	328.5	331.0	332.3	333.5	334.8	337.3



TEST NUMBER: P393812

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	367.5	371.3	376.3	381.4	380.1	383.9	386.4	387.7	388.9	387.7
115°	416.6	421.6	426.7	431.7	431.7	434.2	439.3	440.5	440.5	443.0
117.5°	463.2	469.5	474.5	479.5	480.8	483.3	487.1	490.9	490.9	493.4
120°	508.5	516.0	521.1	526.1	528.6	529.9	533.7	538.7	538.7	538.7
122.5°	551.3	557.6	563.9	568.9	571.4	573.9	576.5	582.7	582.7	585.3
125°	591.6	599.1	605.4	610.4	613.0	615.5	620.5	624.3	625.5	625.5
127.5°	629.3	636.9	643.2	649.5	650.7	653.2	658.3	663.3	664.6	665.8
130°	664.6	672.1	678.4	684.7	687.2	688.5	694.8	698.5	701.1	702.3
132.5°	696.0	703.6	709.9	716.2	718.7	721.2	725.0	731.3	732.5	732.5
135°	725.0	732.5	738.8	746.4	747.6	750.1	755.2	759.0	761.5	762.7
137.5°	751.4	759.0	766.5	772.8	775.3	776.6	781.6	786.6	789.2	790.4
140°	775.3	782.9	790.4	795.5	796.7	800.5	804.3	809.3	811.8	813.1
142.5°	798.0	804.3	810.6	816.9	818.1	820.6	824.4	829.4	832.0	833.2
145°	818.1	824.4	829.4	834.5	835.7	838.3	842.0	845.8	848.3	849.6
147.5°	837.0	842.0	847.1	850.8	852.1	854.6	857.1	859.6	862.2	863.4
150°	853.4	855.9	860.9	863.4	864.7	867.2	869.7	872.2	874.8	876.0
152.5°	865.9	869.7	872.2	876.0	877.3	878.5	881.0	883.6	886.1	886.1
155°	876.0	879.8	882.3	886.1	887.3	888.6	891.1	892.4	894.9	894.9
157.5°	883.6	887.3	889.9	892.4	893.6	894.9	896.1	898.7	901.2	901.2
160°	892.4	893.6	894.9	897.4	897.4	898.7	899.9	901.2	903.7	903.7
162.5°	899.9	901.2	898.7	899.9	898.7	899.9	901.2	902.4	903.7	903.7
165°	902.4	905.0	903.7	905.0	905.0	905.0	905.0	906.2	906.2	906.2
167.5°	902.4	905.0	903.7	903.7	905.0	905.0	906.2	907.5	907.5	907.5
170°	902.4	903.7	902.4	901.2	902.4	902.4	902.4	903.7	903.7	903.7
172.5°	901.2	902.4	899.9	898.7	898.7	898.7	897.4	897.4	896.1	896.1
175°	899.9	899.9	897.4	896.1	896.1	896.1	893.6	892.4	891.1	889.9
177.5°	898.7	898.7	894.9	893.6	893.6	892.4	892.4	889.9	889.9	888.6
180°	896.1	896.1	896.1	896.1	896.1	896.1	896.1	896.1	896.1	896.1

(END OF REPORT)