

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007569

Luminaire Tested: S123IP-B585UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B585UB2750-4F0-XX-W2A-4_3500K
Description: Define 3 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

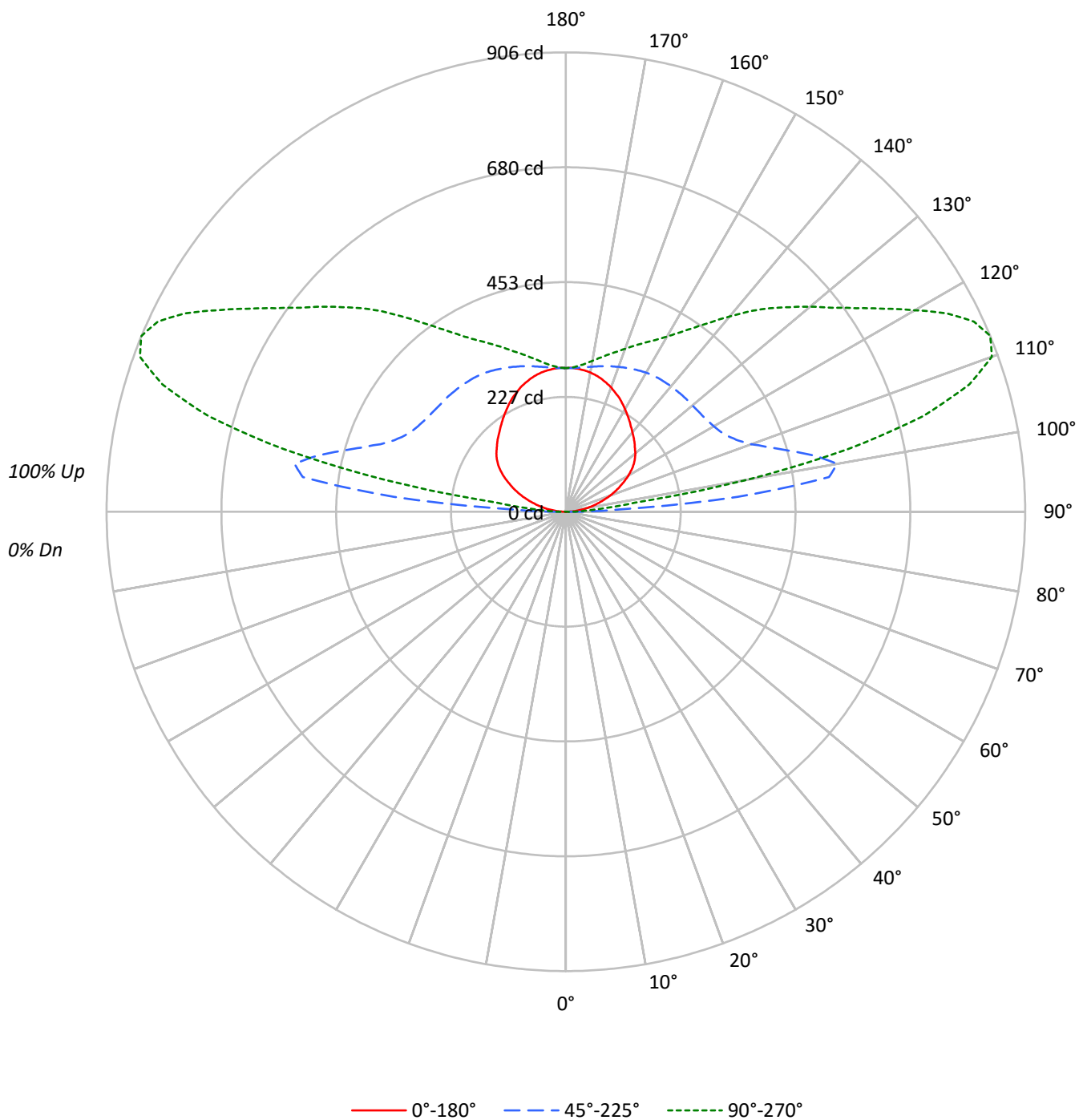
Lumens per Lamp: N/A
Luminaire Lumens: 2134.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 15.4
Input Voltage (V):
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: 24 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				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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.6	0.1
90°-100°	153.8	7.2
100°-110°	450.4	21.1
110°-120°	439.8	20.6
120°-130°	350.3	16.4
130°-140°	276.4	12.9
140°-150°	206.2	9.7
150°-160°	143.7	6.7
160°-170°	84.4	4.0
170°-180°	27.5	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	1044.0	48.9
90°-150°	1876.8	87.9
90°-180°	2132.0	99.9
0°-180°	2134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	7	14	16	17	1
95°	20	63	340	99	67	21
105°	67	98	461	807	730	71
115°	118	147	353	774	888	116
125°	164	193	329	597	700	145
135°	192	229	325	492	568	148
145°	219	250	321	403	444	137
155°	248	268	310	353	368	114
165°	271	279	297	315	321	77
175°	283	283	285	289	289	27
180°	284	284	284	284	284	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	1.1	2.3	3.4	5.2	6.3	7.5	9.2	10.9	12.6	14.3	13.8
92.5°	8.6	12.6	18.4	23.5	29.3	39.6	58.0	88.4	118.2	106.7	79.8
95°	19.5	21.2	27.5	37.3	52.2	74.6	123.4	208.9	303.0	340.3	276.0
97.5°	31.0	31.6	36.7	45.3	60.3	84.9	133.1	232.4	390.8	523.4	541.2
100°	42.5	43.0	47.1	55.1	68.9	91.2	131.4	216.3	367.3	543.4	656.5
102.5°	54.5	55.7	59.1	66.6	78.6	98.7	133.7	202.6	332.8	506.1	662.2
105°	66.6	68.3	71.7	78.6	89.5	107.3	138.3	197.4	305.9	461.4	626.1
107.5°	79.2	80.9	84.4	91.2	101.6	118.2	145.8	196.3	286.4	421.8	574.4
110°	93.0	94.7	97.6	103.9	113.6	129.7	155.5	199.1	276.0	389.1	526.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	105.6	107.3	110.2	116.5	126.3	141.7	165.3	204.9	270.3	367.3	484.3
115°	117.6	119.9	123.4	129.1	138.9	154.4	176.2	211.2	269.7	352.9	452.2
117.5°	129.7	132.6	135.4	140.6	151.5	165.8	187.7	219.2	270.3	343.2	431.0
120°	142.3	144.0	146.9	152.6	163.6	177.9	198.6	228.4	272.6	336.9	414.9
122.5°	153.2	154.9	157.8	164.1	174.5	189.9	210.0	237.0	276.6	332.8	401.7
125°	163.6	164.7	168.1	174.5	185.4	200.9	220.9	246.2	280.6	329.4	390.8
127.5°	171.6	173.3	177.3	183.6	195.7	211.2	230.7	253.6	285.2	327.7	380.5
130°	179.0	180.8	185.9	192.8	204.9	220.4	239.3	261.1	289.8	326.0	372.4
132.5°	184.8	187.1	192.8	201.4	213.5	228.4	246.8	268.0	293.2	325.4	365.0
135°	191.7	194.0	200.3	208.9	220.9	236.4	254.2	273.7	296.7	324.8	358.7
137.5°	198.0	200.3	206.6	215.8	227.8	242.2	259.4	278.3	299.0	323.7	352.9
140°	204.3	207.2	212.9	222.1	233.6	247.9	264.6	281.8	301.3	323.1	347.8
142.5°	211.2	213.5	219.8	227.8	239.3	252.5	268.6	285.2	303.0	321.9	343.2
145°	218.6	220.4	225.5	234.1	243.9	257.1	272.0	287.5	303.6	320.8	339.2
147.5°	226.1	227.3	232.4	239.9	249.6	261.1	274.9	289.2	303.6	319.1	335.1
150°	233.6	234.1	238.7	246.2	254.2	264.6	277.8	289.8	303.6	316.8	331.1
152.5°	241.0	241.0	245.6	251.9	258.8	268.6	279.5	290.9	301.9	313.9	326.5
155°	248.5	248.5	251.9	257.7	264.0	272.0	281.8	290.9	300.7	310.5	321.9
157.5°	254.2	254.8	257.7	262.8	268.6	274.9	282.9	291.5	299.0	307.6	316.8
160°	261.1	261.1	263.4	268.0	272.0	277.8	284.6	291.5	297.8	304.1	311.6
162.5°	266.3	266.3	268.0	271.4	274.9	279.5	285.2	290.9	295.5	300.7	306.4
165°	271.4	270.9	272.0	274.9	277.2	281.2	285.8	289.8	293.2	297.3	301.9
167.5°	275.5	274.9	275.5	277.8	279.5	282.3	285.8	289.2	290.9	293.8	297.3
170°	278.9	277.8	278.3	280.0	281.2	282.3	285.2	287.5	288.7	290.4	293.2
172.5°	281.2	280.6	280.6	281.8	282.3	282.9	285.2	286.9	286.9	287.5	289.2
175°	282.9	282.3	281.8	282.9	282.9	283.5	284.6	285.8	285.2	285.2	286.4
177.5°	284.1	283.5	282.9	283.5	283.5	283.5	284.1	285.2	284.1	283.5	284.1
180°	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	14.3	14.9	15.5	16.6	16.1	16.6	17.2	16.6
92.5°	56.8	44.2	38.4	34.4	33.3	31.0	31.6	30.4
95°	206.6	140.0	109.6	88.9	78.0	72.9	68.9	66.6
97.5°	474.6	358.1	282.3	216.9	178.5	156.7	142.9	136.6
100°	676.6	630.1	563.0	481.5	423.5	381.6	359.2	359.8
102.5°	743.7	753.5	721.3	677.2	635.3	604.3	586.5	569.8
105°	746.0	803.4	814.3	799.4	773.0	751.2	732.8	730.0
107.5°	711.6	801.7	846.4	861.9	858.5	848.2	840.7	834.4
110°	657.6	763.2	835.5	875.7	891.8	896.4	895.2	894.1

TEST NUMBER: P1007569

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	604.3	712.7	795.9	850.5	883.2	899.8	905.6	906.1
115°	558.4	658.2	742.6	805.1	848.2	873.4	884.9	887.8
117.5°	522.8	611.2	688.6	753.5	798.2	826.4	843.6	847.6
120°	495.8	573.3	642.2	700.1	745.4	777.6	791.4	794.8
122.5°	474.6	542.9	605.4	658.2	697.2	725.4	740.9	745.4
125°	456.2	518.8	573.9	619.8	656.5	681.8	696.1	700.1
127.5°	439.6	496.4	546.9	589.4	622.6	644.4	657.6	661.1
130°	424.1	475.7	522.2	561.2	591.7	612.3	624.4	629.0
132.5°	409.7	456.2	498.7	535.4	563.5	584.2	594.5	597.4
135°	397.1	437.9	475.2	507.9	536.0	553.2	563.5	567.6
137.5°	385.1	419.5	452.8	482.0	506.1	523.9	532.5	536.0
140°	374.7	404.0	431.5	456.2	478.0	494.1	503.3	502.7
142.5°	365.0	389.1	412.0	432.7	450.5	464.3	472.3	471.7
145°	357.5	376.5	394.8	411.5	425.8	437.9	442.4	443.6
147.5°	351.2	366.7	382.2	394.2	405.7	414.3	418.9	419.5
150°	344.3	357.5	369.6	380.5	389.1	395.4	398.8	398.8
152.5°	338.0	348.9	359.2	367.8	374.2	379.9	381.6	381.6
155°	331.7	340.9	349.5	356.4	361.5	366.1	367.3	367.8
157.5°	324.8	332.8	339.7	345.5	350.1	353.5	354.6	354.6
160°	319.1	325.4	331.1	335.1	339.2	342.6	342.6	342.0
162.5°	312.2	317.3	322.5	326.0	328.3	331.1	331.1	330.5
165°	306.4	309.9	313.9	316.8	319.1	321.4	320.8	320.8
167.5°	301.3	304.1	306.4	308.7	309.9	311.6	311.0	311.0
170°	296.1	297.8	300.1	301.3	301.9	303.0	302.4	302.4
172.5°	291.5	292.7	294.4	295.0	295.0	296.1	295.0	294.4
175°	287.5	288.1	289.2	289.2	289.2	289.8	289.2	288.7
177.5°	284.6	285.2	285.8	285.8	285.2	285.8	284.6	284.6
180°	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5

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