

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: P1007597

Luminaire Tested: S123IP-B805UB2750-4F0-XX-W2A-4_2700K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007597
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-B805UB2750-4F0-XX-W2A-4_2700K
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

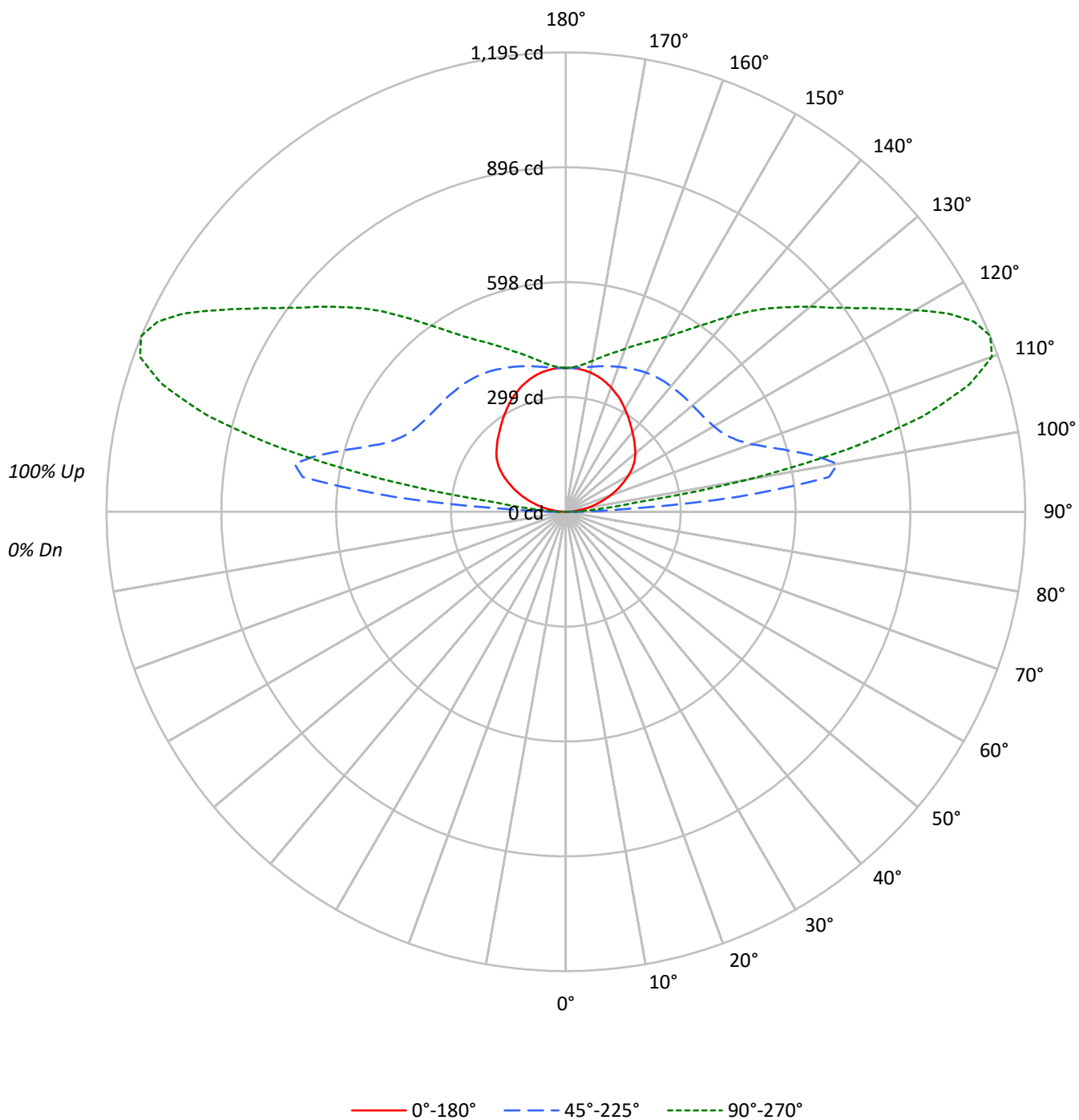
Lumens per Lamp: N/A
Luminaire Lumens: 2815.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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: 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°	2.1	0.1
90°-100°	202.9	7.2
100°-110°	594.1	21.1
110°-120°	580.2	20.6
120°-130°	462.0	16.4
130°-140°	364.5	12.9
140°-150°	271.9	9.7
150°-160°	189.6	6.7
160°-170°	111.4	4.0
170°-180°	36.2	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	1377.2	48.9
90°-150°	2475.7	87.9
90°-180°	2813.0	99.9
0°-180°	2815.0	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°	2	9	19	21	22	2
95°	26	84	449	131	88	27
105°	88	130	609	1064	963	93
115°	155	193	466	1021	1171	154
125°	216	255	434	787	924	192
135°	253	302	428	648	749	195
145°	288	330	423	532	585	181
155°	328	354	410	466	485	151
165°	358	368	392	416	423	101
175°	373	374	376	382	381	35
180°	374	374	374	374	374	

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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°	1.5	3.0	4.5	6.8	8.3	9.8	12.1	14.4	16.7	18.9	18.2
92.5°	11.4	16.7	24.2	31.0	38.6	52.2	76.5	116.6	155.9	140.8	105.2
95°	25.7	28.0	36.3	49.2	68.9	98.4	162.8	275.5	399.7	448.9	364.1
97.5°	40.9	41.6	48.4	59.8	79.5	112.0	175.6	306.6	515.5	690.4	713.8
100°	56.0	56.8	62.1	72.7	90.8	120.4	173.4	285.4	484.5	716.9	866.0
102.5°	71.9	73.4	78.0	87.8	103.7	130.2	176.4	267.2	439.1	667.7	873.6
105°	87.8	90.1	94.6	103.7	118.1	141.6	182.4	260.4	403.5	608.6	825.9
107.5°	104.5	106.7	111.3	120.4	134.0	155.9	192.3	258.9	377.7	556.4	757.8
110°	122.6	124.9	128.7	137.0	149.9	171.1	205.1	262.7	364.1	513.2	694.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	139.3	141.6	145.3	153.7	166.5	187.0	218.0	270.2	356.5	484.5	638.9
115°	155.2	158.2	162.8	170.3	183.2	203.6	232.4	278.6	355.8	465.6	596.5
117.5°	171.1	174.9	178.7	185.5	199.8	218.8	247.5	289.2	356.5	452.7	568.5
120°	187.7	190.0	193.8	201.4	215.7	234.7	261.9	301.3	359.6	444.4	547.3
122.5°	202.1	204.4	208.2	216.5	230.1	250.6	277.1	312.6	364.9	439.1	529.9
125°	215.7	217.3	221.8	230.1	244.5	264.9	291.4	324.8	370.2	434.5	515.5
127.5°	226.3	228.6	233.9	242.2	258.1	278.6	304.3	334.6	376.2	432.2	501.9
130°	236.2	238.5	245.3	254.4	270.2	290.7	315.7	344.4	382.3	430.0	491.3
132.5°	243.8	246.8	254.4	265.7	281.6	301.3	325.5	353.5	386.8	429.2	481.4
135°	252.8	255.9	264.2	275.5	291.4	311.9	335.3	361.1	391.4	428.5	473.1
137.5°	261.2	264.2	272.5	284.6	300.5	319.5	342.2	367.1	394.4	426.9	465.6
140°	269.5	273.3	280.8	293.0	308.1	327.0	349.0	371.7	397.4	426.2	458.7
142.5°	278.6	281.6	289.9	300.5	315.7	333.1	354.3	376.2	399.7	424.7	452.7
145°	288.4	290.7	297.5	308.9	321.7	339.1	358.8	379.3	400.5	423.2	447.4
147.5°	298.3	299.8	306.6	316.4	329.3	344.4	362.6	381.5	400.5	420.9	442.1
150°	308.1	308.9	314.9	324.8	335.3	349.0	366.4	382.3	400.5	417.9	436.8
152.5°	317.9	317.9	324.0	332.3	341.4	354.3	368.7	383.8	398.2	414.1	430.7
155°	327.8	327.8	332.3	339.9	348.2	358.8	371.7	383.8	396.7	409.5	424.7
157.5°	335.3	336.1	339.9	346.7	354.3	362.6	373.2	384.6	394.4	405.7	417.9
160°	344.4	344.4	347.5	353.5	358.8	366.4	375.5	384.6	392.9	401.2	411.0
162.5°	351.2	351.2	353.5	358.1	362.6	368.7	376.2	383.8	389.9	396.7	404.2
165°	358.1	357.3	358.8	362.6	365.6	370.9	377.0	382.3	386.8	392.1	398.2
167.5°	363.4	362.6	363.4	366.4	368.7	372.4	377.0	381.5	383.8	387.6	392.1
170°	367.9	366.4	367.1	369.4	370.9	372.4	376.2	379.3	380.8	383.0	386.8
172.5°	370.9	370.2	370.2	371.7	372.4	373.2	376.2	378.5	378.5	379.3	381.5
175°	373.2	372.4	371.7	373.2	373.2	374.0	375.5	377.0	376.2	376.2	377.7
177.5°	374.7	374.0	373.2	374.0	374.0	374.0	374.7	376.2	374.7	374.0	374.7
180°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0

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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°	18.9	19.7	20.4	22.0	21.2	22.0	22.7	22.0
92.5°	74.9	58.3	50.7	45.4	43.9	40.9	41.6	40.1
95°	272.5	184.7	144.6	117.3	103.0	96.1	90.8	87.8
97.5°	626.0	472.4	372.4	286.1	235.4	206.7	188.5	180.2
100°	892.5	831.2	742.6	635.1	558.7	503.4	473.9	474.6
102.5°	981.1	993.9	951.5	893.3	838.0	797.1	773.6	751.7
105°	984.1	1059.8	1074.2	1054.5	1019.7	990.9	966.7	962.9
107.5°	938.7	1057.5	1116.6	1137.0	1132.5	1118.8	1109.0	1100.7
110°	867.5	1006.8	1102.2	1155.2	1176.4	1182.4	1180.9	1179.4

TEST NUMBER: P1007597

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	797.1	940.2	1050.0	1121.9	1165.0	1187.0	1194.5	1195.3
115°	736.6	868.3	979.6	1062.1	1118.8	1152.1	1167.3	1171.1
117.5°	689.6	806.2	908.4	993.9	1053.0	1090.1	1112.8	1118.1
120°	654.0	756.2	847.1	923.5	983.3	1025.7	1043.9	1048.4
122.5°	626.0	716.1	798.6	868.3	919.7	956.8	977.3	983.3
125°	601.8	684.3	757.0	817.6	866.0	899.3	918.2	923.5
127.5°	579.9	654.8	721.4	777.4	821.3	850.1	867.5	872.1
130°	559.4	627.5	688.9	740.3	780.5	807.7	823.6	829.7
132.5°	540.5	601.8	657.8	706.3	743.4	770.6	784.2	788.0
135°	523.8	577.6	626.8	669.9	707.0	729.7	743.4	748.7
137.5°	507.9	553.4	597.3	635.9	667.7	691.1	702.5	707.0
140°	494.3	532.9	569.3	601.8	630.6	651.8	663.9	663.1
142.5°	481.4	513.2	543.5	570.8	594.2	612.4	623.0	622.2
145°	471.6	496.6	520.8	542.8	561.7	577.6	583.6	585.2
147.5°	463.3	483.7	504.2	520.1	535.2	546.6	552.6	553.4
150°	454.2	471.6	487.5	501.9	513.2	521.6	526.1	526.1
152.5°	445.9	460.3	473.9	485.2	493.6	501.1	503.4	503.4
155°	437.5	449.7	461.0	470.1	476.9	483.0	484.5	485.2
157.5°	428.5	439.1	448.1	455.7	461.8	466.3	467.8	467.8
160°	420.9	429.2	436.8	442.1	447.4	451.9	451.9	451.2
162.5°	411.8	418.6	425.4	430.0	433.0	436.8	436.8	436.0
165°	404.2	408.8	414.1	417.9	420.9	423.9	423.2	423.2
167.5°	397.4	401.2	404.2	407.3	408.8	411.0	410.3	410.3
170°	390.6	392.9	395.9	397.4	398.2	399.7	398.9	398.9
172.5°	384.6	386.1	388.3	389.1	389.1	390.6	389.1	388.3
175°	379.3	380.0	381.5	381.5	381.5	382.3	381.5	380.8
177.5°	375.5	376.2	377.0	377.0	376.2	377.0	375.5	375.5
180°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0

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