

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: P1007598

Luminaire Tested: S123IP-B805UB2750-4F0-XX-W2A-4_3000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007598
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_3000K
Description: Define 3 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

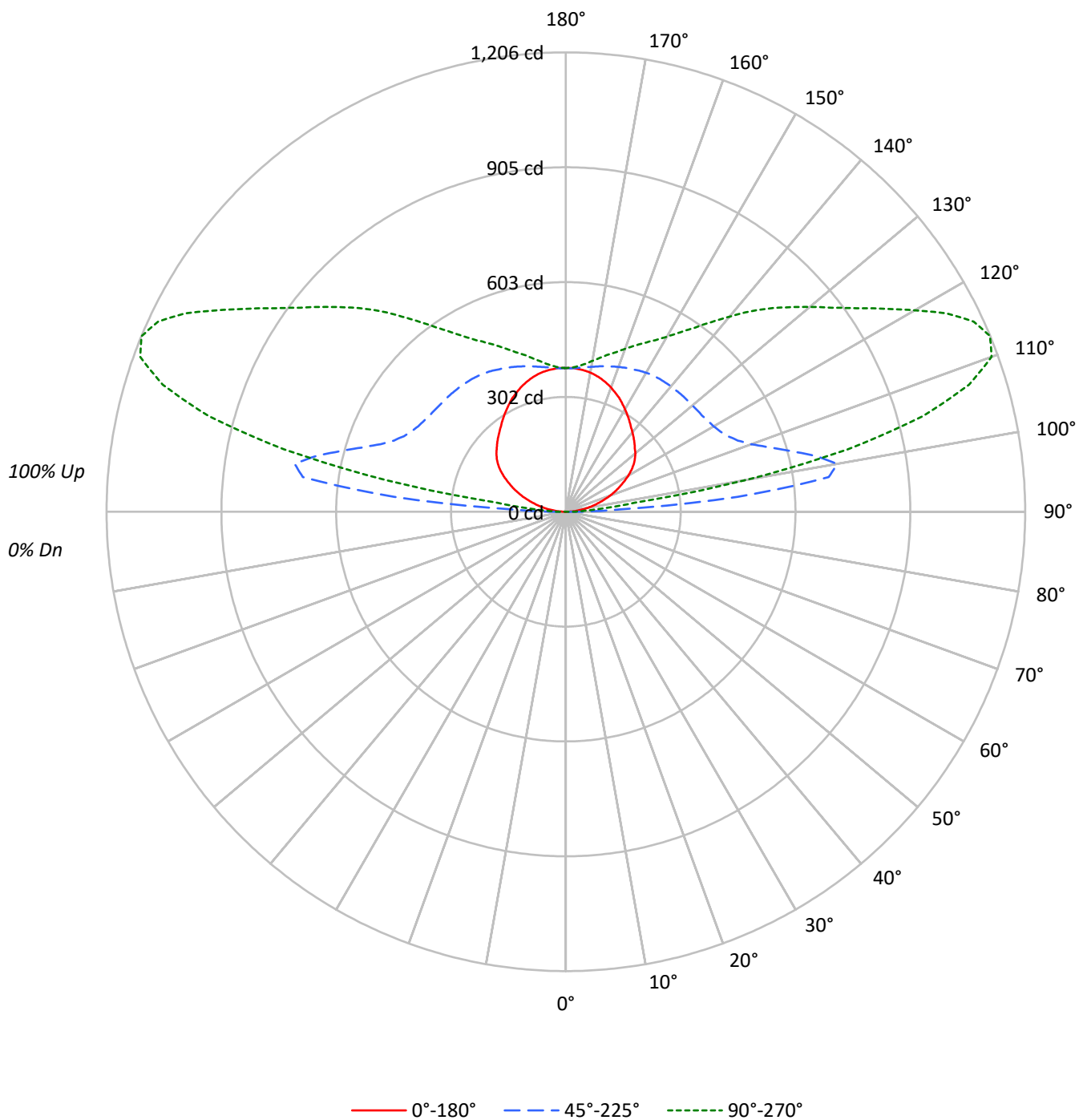
Lumens per Lamp: N/A
Luminaire Lumens: 2839.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
Input Voltage (V):
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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CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3000K

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°	204.7	7.2
100°-110°	599.2	21.1
110°-120°	585.1	20.6
120°-130°	466.0	16.4
130°-140°	367.6	12.9
140°-150°	274.3	9.7
150°-160°	191.2	6.7
160°-170°	112.3	4.0
170°-180°	36.5	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°	1388.9	48.9
90°-150°	2496.8	87.9
90°-180°	2837.0	99.9
0°-180°	2839.0	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	453	132	89	28
105°	89	131	614	1073	971	94
115°	156	195	470	1030	1181	155
125°	218	257	438	794	931	193
135°	255	304	432	654	755	197
145°	291	333	427	536	590	182
155°	331	357	413	470	489	152
165°	361	371	396	420	427	102
175°	376	377	379	385	384	36
180°	377	377	377	377	377	

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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	3.1	4.6	6.9	8.4	9.9	12.2	14.5	16.8	19.1	18.3
92.5°	11.5	16.8	24.4	31.3	38.9	52.7	77.1	117.6	157.3	142.0	106.1
95°	26.0	28.2	36.6	49.6	69.5	99.2	164.1	277.9	403.1	452.7	367.2
97.5°	41.2	42.0	48.9	60.3	80.2	113.0	177.1	309.2	519.9	696.3	719.9
100°	56.5	57.3	62.6	73.3	91.6	121.4	174.8	287.8	488.6	723.0	873.4
102.5°	72.5	74.1	78.6	88.6	104.6	131.3	177.9	269.5	442.8	673.4	881.0
105°	88.6	90.9	95.4	104.6	119.1	142.8	184.0	262.6	406.9	613.8	832.9
107.5°	105.4	107.6	112.2	121.4	135.1	157.3	193.9	261.1	381.0	561.1	764.2
110°	123.7	126.0	129.8	138.2	151.2	172.5	206.9	264.9	367.2	517.6	700.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	140.5	142.8	146.6	155.0	168.0	188.6	219.9	272.6	359.6	488.6	644.4
115°	156.5	159.6	164.1	171.8	184.8	205.4	234.4	280.9	358.8	469.5	601.6
117.5°	172.5	176.4	180.2	187.0	201.6	220.6	249.6	291.6	359.6	456.5	573.3
120°	189.3	191.6	195.4	203.1	217.6	236.7	264.2	303.9	362.6	448.1	552.0
122.5°	203.8	206.1	209.9	218.3	232.1	252.7	279.4	315.3	368.0	442.8	534.4
125°	217.6	219.1	223.7	232.1	246.6	267.2	293.9	327.5	373.3	438.2	519.9
127.5°	228.3	230.6	235.9	244.3	260.3	280.9	306.9	337.4	379.4	435.9	506.2
130°	238.2	240.5	247.4	256.5	272.6	293.2	318.4	347.4	385.5	433.6	495.5
132.5°	245.8	248.9	256.5	268.0	284.0	303.9	328.3	356.5	390.1	432.9	485.6
135°	255.0	258.0	266.4	277.9	293.9	314.5	338.2	364.2	394.7	432.1	477.2
137.5°	263.4	266.4	274.8	287.1	303.1	322.2	345.1	370.3	397.8	430.6	469.5
140°	271.8	275.6	283.2	295.5	310.7	329.8	351.9	374.9	400.8	429.8	462.6
142.5°	280.9	284.0	292.4	303.1	318.4	335.9	357.3	379.4	403.1	428.3	456.5
145°	290.9	293.2	300.0	311.5	324.5	342.0	361.9	382.5	403.9	426.8	451.2
147.5°	300.8	302.3	309.2	319.1	332.1	347.4	365.7	384.8	403.9	424.5	445.9
150°	310.7	311.5	317.6	327.5	338.2	351.9	369.5	385.5	403.9	421.4	440.5
152.5°	320.6	320.6	326.8	335.2	344.3	357.3	371.8	387.1	401.6	417.6	434.4
155°	330.6	330.6	335.2	342.8	351.2	361.9	374.9	387.1	400.0	413.0	428.3
157.5°	338.2	339.0	342.8	349.7	357.3	365.7	376.4	387.8	397.8	409.2	421.4
160°	347.4	347.4	350.4	356.5	361.9	369.5	378.7	387.8	396.2	404.6	414.6
162.5°	354.2	354.2	356.5	361.1	365.7	371.8	379.4	387.1	393.2	400.0	407.7
165°	361.1	360.3	361.9	365.7	368.7	374.1	380.2	385.5	390.1	395.5	401.6
167.5°	366.5	365.7	366.5	369.5	371.8	375.6	380.2	384.8	387.1	390.9	395.5
170°	371.0	369.5	370.3	372.6	374.1	375.6	379.4	382.5	384.0	386.3	390.1
172.5°	374.1	373.3	373.3	374.9	375.6	376.4	379.4	381.7	381.7	382.5	384.8
175°	376.4	375.6	374.9	376.4	376.4	377.1	378.7	380.2	379.4	379.4	381.0
177.5°	377.9	377.1	376.4	377.1	377.1	377.1	377.9	379.4	377.9	377.1	377.9
180°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1

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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°	19.1	19.8	20.6	22.1	21.4	22.1	22.9	22.1
92.5°	75.6	58.8	51.2	45.8	44.3	41.2	42.0	40.5
95°	274.8	186.3	145.8	118.3	103.8	97.0	91.6	88.6
97.5°	631.4	476.4	375.6	288.6	237.4	208.4	190.1	181.7
100°	900.1	838.3	748.9	640.5	563.4	507.7	477.9	478.7
102.5°	989.4	1002.4	959.7	900.9	845.1	803.9	780.2	758.1
105°	992.5	1068.8	1083.3	1063.5	1028.4	999.4	974.9	971.1
107.5°	946.7	1066.5	1126.1	1146.7	1142.1	1128.4	1118.5	1110.1
110°	874.9	1015.4	1111.6	1165.0	1186.4	1192.5	1191.0	1189.5

TEST NUMBER: P1007598

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	803.9	948.2	1058.9	1131.4	1174.9	1197.1	1204.7	1205.5
115°	742.8	875.7	987.9	1071.1	1128.4	1162.0	1177.2	1181.1
117.5°	695.5	813.1	916.1	1002.4	1062.0	1099.4	1122.3	1127.6
120°	659.6	762.7	854.3	931.4	991.7	1034.5	1052.8	1057.4
122.5°	631.4	722.2	805.4	875.7	927.6	965.0	985.6	991.7
125°	606.9	690.2	763.4	824.5	873.4	907.0	926.1	931.4
127.5°	584.8	660.4	727.6	784.1	828.3	857.4	874.9	879.5
130°	564.2	632.9	694.7	746.7	787.1	814.6	830.6	836.7
132.5°	545.1	606.9	663.4	712.3	749.7	777.2	790.9	794.7
135°	528.3	582.5	632.1	675.7	713.1	736.0	749.7	755.1
137.5°	512.3	558.1	602.4	641.3	673.4	697.0	708.5	713.1
140°	498.5	537.5	574.1	606.9	636.0	657.3	669.5	668.8
142.5°	485.6	517.6	548.2	575.6	599.3	617.6	628.3	627.6
145°	475.6	500.8	525.3	547.4	566.5	582.5	588.6	590.1
147.5°	467.2	487.8	508.5	524.5	539.8	551.2	557.3	558.1
150°	458.1	475.6	491.7	506.2	517.6	526.0	530.6	530.6
152.5°	449.7	464.2	477.9	489.4	497.8	505.4	507.7	507.7
155°	441.3	453.5	464.9	474.1	481.0	487.1	488.6	489.4
157.5°	432.1	442.8	452.0	459.6	465.7	470.3	471.8	471.8
160°	424.5	432.9	440.5	445.9	451.2	455.8	455.8	455.0
162.5°	415.3	422.2	429.1	433.6	436.7	440.5	440.5	439.7
165°	407.7	412.3	417.6	421.4	424.5	427.5	426.8	426.8
167.5°	400.8	404.6	407.7	410.7	412.3	414.6	413.8	413.8
170°	393.9	396.2	399.3	400.8	401.6	403.1	402.3	402.3
172.5°	387.8	389.4	391.6	392.4	392.4	393.9	392.4	391.6
175°	382.5	383.3	384.8	384.8	384.8	385.5	384.8	384.0
177.5°	378.7	379.4	380.2	380.2	379.4	380.2	378.7	378.7
180°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1

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