

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: P1007800

Luminaire Tested: S125IP-B1270UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IP-B1270UB27-4F0-XX-W2A-4
Description: Define 5 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

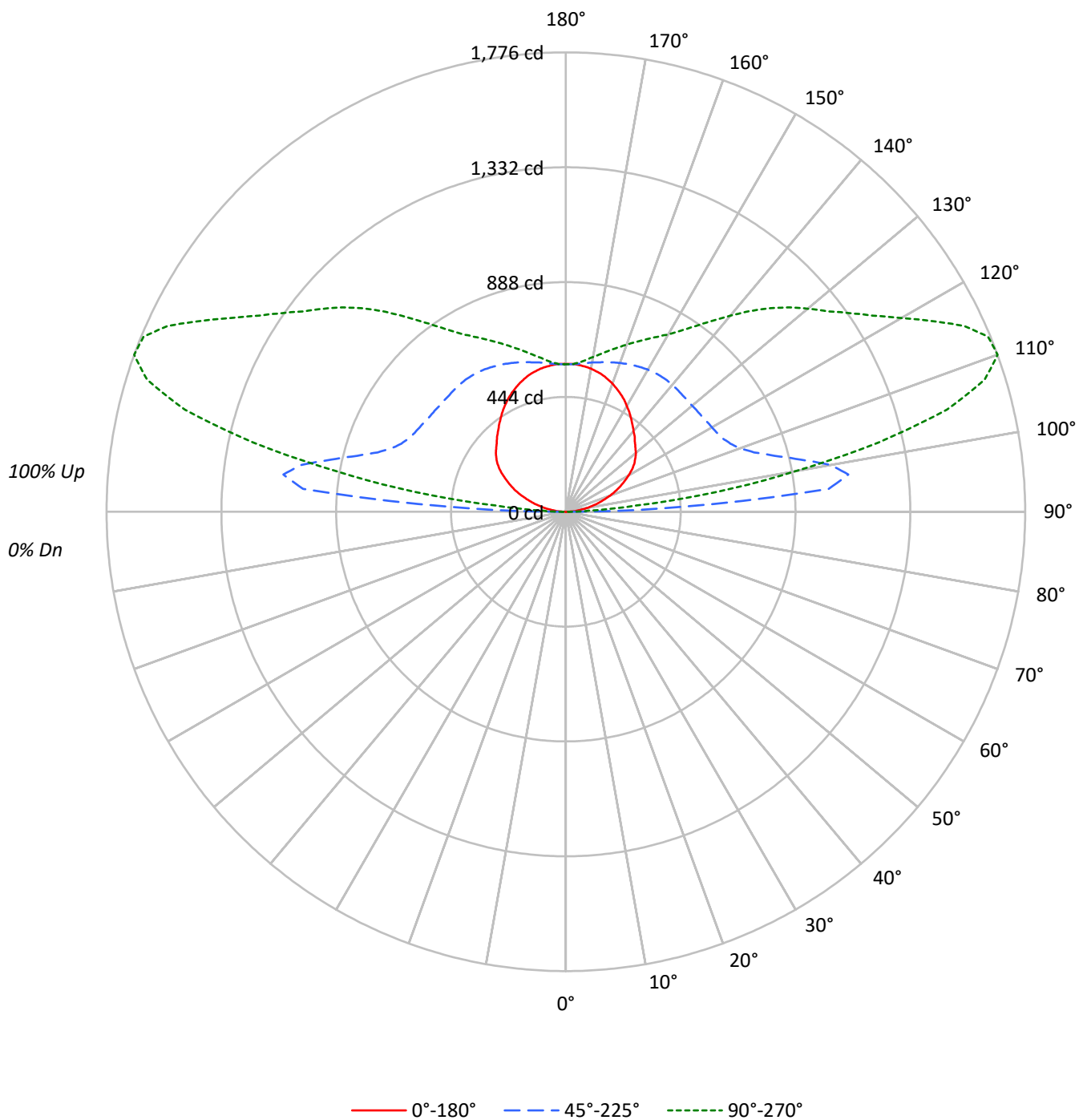
Lumens per Lamp: N/A
Luminaire Lumens: 4291.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
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			
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
RCR																				
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	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	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	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	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	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	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	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	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	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°	2.3	0.1
90°-100°	415.3	9.7
100°-110°	895.7	20.9
110°-120°	835.0	19.5
120°-130°	676.3	15.8
130°-140°	543.1	12.7
140°-150°	409.6	9.5
150°-160°	288.4	6.7
160°-170°	170.0	4.0
170°-180°	55.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	2146.0	50.0
90°-150°	3775.0	88.0
90°-180°	4289.0	100.0
0°-180°	4291.0	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	10	18	24	26	3
95°	38	112	1020	463	270	40
105°	130	182	835	1643	1525	137
115°	232	280	670	1444	1699	229
125°	322	378	642	1149	1339	286
135°	378	454	638	963	1112	293
145°	440	504	640	797	877	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

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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°	1.2	2.3	4.6	6.9	9.2	11.5	12.7	15.0	16.1	18.4	19.6
92.5°	17.3	20.7	32.2	49.5	73.7	115.1	193.4	324.6	467.4	459.3	370.7
95°	38.0	39.1	48.4	61.0	86.3	138.1	261.3	514.6	832.3	1020.0	998.1
97.5°	58.7	59.9	66.8	79.4	102.5	140.4	225.6	420.2	763.2	1101.7	1246.7
100°	80.6	82.9	87.5	100.2	122.0	156.6	223.3	373.0	663.1	1039.5	1327.3
102.5°	104.8	105.9	109.4	123.2	142.7	176.1	233.7	353.4	587.1	930.2	1279.0
105°	130.1	130.1	135.8	147.4	165.8	198.0	248.7	351.1	543.4	834.6	1165.0
107.5°	154.3	156.6	162.3	171.5	191.1	219.9	269.4	359.2	520.3	763.2	1056.8
110°	180.7	183.0	187.6	198.0	215.3	245.2	292.4	371.8	511.1	716.0	967.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	207.2	209.5	213.0	223.3	240.6	269.4	314.3	388.0	511.1	688.4	900.2
115°	232.5	234.8	238.3	248.7	265.9	294.7	337.3	404.1	514.6	670.0	855.3
117.5°	255.6	259.0	262.5	272.8	292.4	320.0	360.3	422.5	520.3	659.6	825.4
120°	278.6	282.0	286.6	297.0	316.6	345.4	385.7	440.9	529.6	652.7	801.2
122.5°	302.8	305.1	308.5	318.9	340.8	369.5	409.8	461.6	537.6	647.0	780.5
125°	322.3	324.6	330.4	340.8	362.6	392.6	430.5	480.0	546.8	642.4	762.1
127.5°	338.5	341.9	348.8	361.5	384.5	414.4	451.3	497.3	557.2	640.1	744.8
130°	353.4	356.9	366.1	381.0	405.2	435.2	470.8	514.6	566.4	637.8	727.6
132.5°	364.9	369.5	381.0	398.3	423.6	453.6	489.3	529.6	576.8	637.8	713.7
135°	377.6	382.2	396.0	414.4	438.6	469.7	505.4	543.4	586.0	637.8	703.4
137.5°	393.7	397.2	409.8	428.2	452.4	484.7	516.9	553.7	595.2	638.9	693.0
140°	407.5	411.0	424.8	443.2	465.1	496.2	529.6	564.1	600.9	640.1	686.1
142.5°	423.6	425.9	438.6	457.0	477.7	506.5	537.6	569.8	604.4	641.2	680.4
145°	439.8	442.1	453.6	469.7	490.4	516.9	546.8	575.6	606.7	640.1	674.6
147.5°	457.0	458.2	468.5	483.5	501.9	526.1	552.6	579.1	607.8	637.8	668.8
150°	472.0	474.3	482.4	497.3	513.4	533.0	558.3	582.5	607.8	634.3	661.9
152.5°	488.1	489.3	496.2	508.8	523.8	541.1	564.1	584.8	606.7	629.7	653.9
155°	501.9	501.9	508.8	520.3	531.9	548.0	567.5	586.0	604.4	623.9	644.7
157.5°	514.6	514.6	520.3	530.7	541.1	553.7	571.0	587.1	602.1	618.2	636.6
160°	527.2	526.1	530.7	538.8	548.0	558.3	573.3	587.1	598.6	612.4	626.3
162.5°	537.6	536.5	541.1	548.0	554.9	562.9	575.6	586.0	595.2	605.5	617.0
165°	548.0	545.7	549.1	554.9	559.5	566.4	575.6	584.8	591.7	598.6	607.8
167.5°	554.9	553.7	556.0	559.5	562.9	567.5	575.6	582.5	586.0	591.7	598.6
170°	561.8	560.6	561.8	564.1	566.4	569.8	575.6	580.2	582.5	586.0	590.6
172.5°	566.4	564.1	565.2	567.5	568.7	569.8	574.4	577.9	577.9	579.1	582.5
175°	569.8	567.5	568.7	569.8	569.8	569.8	573.3	575.6	574.4	574.4	575.6
177.5°	572.1	569.8	569.8	571.0	569.8	569.8	572.1	573.3	571.0	571.0	572.1
180°	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0

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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°	20.7	21.9	23.0	25.3	25.3	25.3	26.5	26.5
92.5°	249.8	179.6	133.5	111.7	93.2	89.8	87.5	85.2
95°	827.7	652.7	511.1	414.4	332.7	298.2	289.0	270.5
97.5°	1186.9	1047.6	904.8	766.7	697.6	637.8	606.7	592.9
100°	1416.0	1359.6	1241.0	1121.3	1041.8	958.9	916.4	897.9
102.5°	1493.1	1550.7	1509.2	1437.8	1351.5	1298.6	1251.4	1238.7
105°	1441.3	1599.0	1649.7	1637.0	1600.2	1562.2	1539.2	1525.3
107.5°	1335.4	1543.8	1665.8	1716.4	1726.8	1721.0	1709.5	1698.0
110°	1215.7	1434.4	1596.7	1694.6	1746.4	1768.2	1776.3	1776.3

TEST NUMBER: P1007800

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1121.3	1326.2	1490.8	1610.5	1692.3	1733.7	1756.7	1767.1
115°	1045.3	1223.7	1381.4	1506.9	1596.7	1652.0	1684.2	1699.2
117.5°	992.3	1150.0	1288.2	1406.8	1497.7	1555.3	1587.5	1596.7
120°	950.9	1089.0	1215.7	1317.0	1402.2	1457.4	1488.5	1497.7
122.5°	919.8	1045.3	1154.7	1247.9	1321.6	1371.1	1402.2	1410.2
125°	889.9	1007.3	1107.5	1190.3	1254.8	1302.0	1327.3	1338.8
127.5°	858.8	970.5	1064.9	1143.1	1201.9	1244.4	1268.6	1273.2
130°	830.0	931.3	1021.1	1095.9	1153.5	1191.5	1214.5	1221.4
132.5°	801.2	894.5	973.9	1045.3	1102.8	1140.8	1161.6	1169.6
135°	777.1	856.5	930.2	995.8	1046.4	1084.4	1105.2	1112.1
137.5°	755.2	822.0	885.3	942.8	988.9	1024.6	1044.1	1052.2
140°	737.9	792.0	845.0	893.3	935.9	965.9	983.1	988.9
142.5°	723.0	766.7	810.4	850.7	885.3	909.4	925.6	930.2
145°	710.3	746.0	781.7	812.7	840.4	859.9	872.6	877.2
147.5°	697.6	727.6	756.3	780.5	803.5	819.7	827.7	830.0
150°	687.3	712.6	734.5	755.2	772.5	786.3	790.9	792.0
152.5°	675.8	697.6	717.2	732.2	746.0	756.3	760.9	762.1
155°	664.2	682.7	698.8	711.4	723.0	731.0	734.5	735.6
157.5°	652.7	668.8	681.5	691.9	701.1	708.0	711.4	711.4
160°	641.2	652.7	664.2	672.3	680.4	686.1	688.4	687.3
162.5°	628.6	638.9	648.1	655.0	660.8	665.4	665.4	665.4
165°	617.0	625.1	632.0	637.8	642.4	644.7	644.7	644.7
167.5°	605.5	611.3	617.0	621.6	623.9	626.3	625.1	625.1
170°	596.3	599.8	603.2	605.5	607.8	609.0	609.0	607.8
172.5°	586.0	589.4	591.7	592.9	592.9	595.2	592.9	591.7
175°	579.1	579.1	581.4	581.4	581.4	582.5	580.2	579.1
177.5°	573.3	574.4	574.4	574.4	573.3	574.4	571.0	571.0
180°	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0

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