

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: P1007500

Luminaire Tested: S123IP-B1195UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007500
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-B1195UB27-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

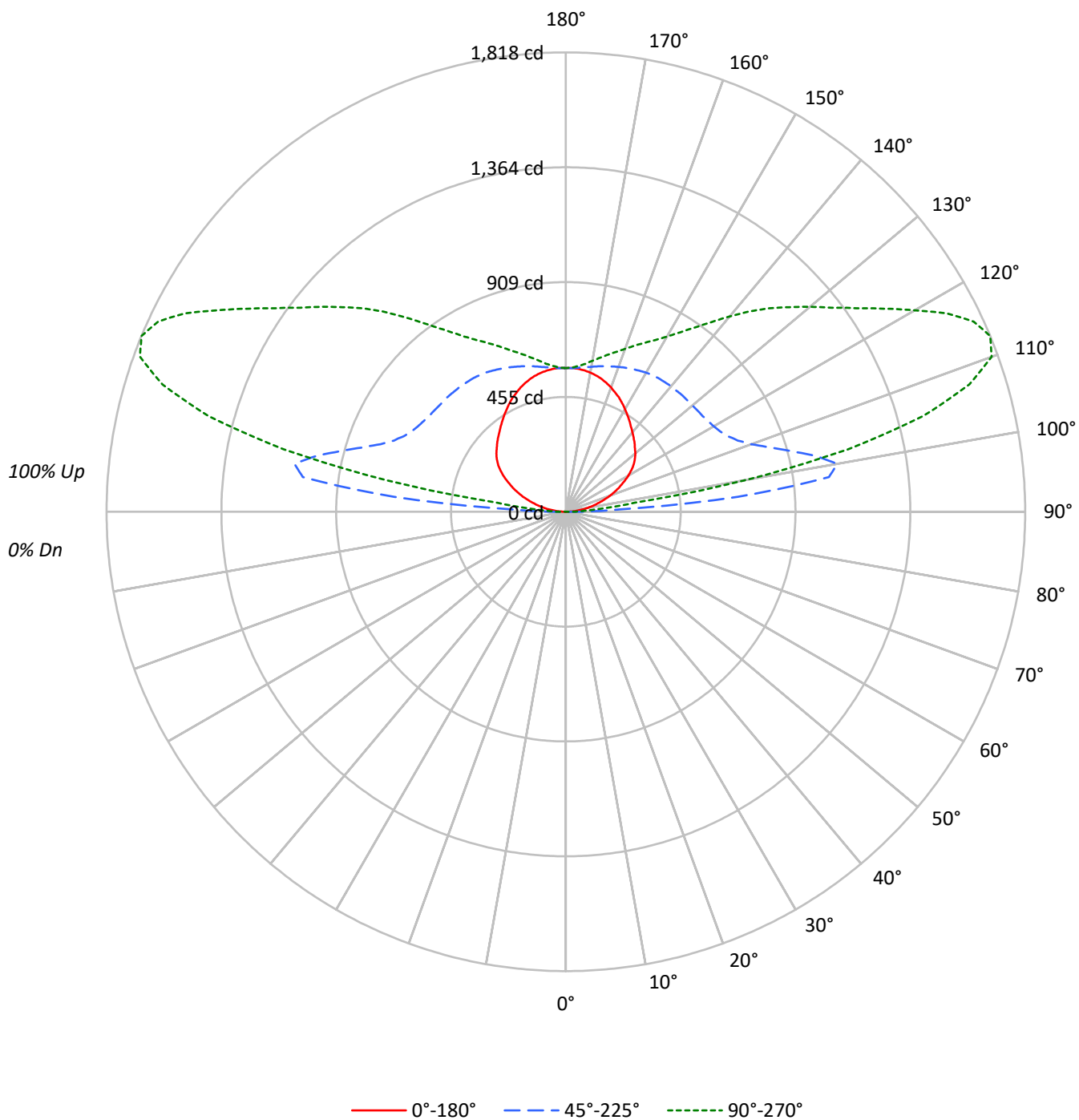
Lumens per Lamp: N/A
Luminaire Lumens: 4281.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	3.1	0.1
90°-100°	308.6	7.2
100°-110°	903.5	21.1
110°-120°	882.3	20.6
120°-130°	702.7	16.4
130°-140°	554.4	12.9
140°-150°	413.6	9.7
150°-160°	288.4	6.7
160°-170°	169.4	4.0
170°-180°	55.1	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	2094.4	48.9
90°-150°	3765.0	87.9
90°-180°	4278.0	99.9
0°-180°	4281.0	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	14	29	32	33	3
95°	39	127	683	199	134	41
105°	134	197	926	1619	1464	142
115°	236	294	708	1552	1781	234
125°	328	387	661	1197	1404	291
135°	384	459	652	986	1139	297
145°	439	502	644	809	890	275
155°	498	538	623	708	738	229
165°	544	560	596	633	644	153
175°	568	568	572	580	579	54
180°	569	569	569	569	569	

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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°	2.3	4.6	6.9	10.4	12.7	15.0	18.4	21.9	25.3	28.8	27.6
92.5°	17.3	25.3	36.8	47.2	58.7	79.4	116.3	177.3	237.2	214.1	160.0
95°	39.1	42.6	55.3	74.8	104.8	149.7	247.5	419.0	607.8	682.7	553.7
97.5°	62.2	63.3	73.7	90.9	120.9	170.4	267.1	466.2	784.0	1049.9	1085.6
100°	85.2	86.3	94.4	110.5	138.1	183.0	263.6	434.0	736.8	1090.2	1317.0
102.5°	109.4	111.7	118.6	133.5	157.7	198.0	268.2	406.4	667.7	1015.4	1328.5
105°	133.5	137.0	143.9	157.7	179.6	215.3	277.4	396.0	613.6	925.6	1256.0
107.5°	158.9	162.3	169.2	183.0	203.8	237.2	292.4	393.7	574.5	846.1	1152.4
110°	186.5	190.0	195.7	208.4	227.9	260.2	312.0	399.5	553.7	780.5	1055.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	211.8	215.3	221.0	233.7	253.3	284.4	331.6	411.0	542.2	736.8	971.6
115°	236.0	240.6	247.5	259.0	278.6	309.7	353.4	423.7	541.1	708.0	907.2
117.5°	260.2	265.9	271.7	282.0	303.9	332.7	376.4	439.8	542.2	688.4	864.6
120°	285.5	289.0	294.7	306.2	328.1	356.9	398.3	458.2	546.8	675.8	832.3
122.5°	307.4	310.8	316.6	329.2	350.0	381.1	421.3	475.5	554.9	667.7	805.9
125°	328.1	330.4	337.3	350.0	371.8	402.9	443.2	493.9	562.9	660.8	784.0
127.5°	344.2	347.7	355.7	368.4	392.6	423.7	462.8	508.8	572.2	657.3	763.3
130°	359.2	362.6	373.0	386.8	411.0	442.1	480.1	523.8	581.4	653.9	747.1
132.5°	370.7	375.3	386.8	404.1	428.3	458.2	495.0	537.6	588.3	652.7	732.2
135°	384.5	389.1	401.8	419.0	443.2	474.3	510.0	549.1	595.2	651.6	719.5
137.5°	397.2	401.8	414.4	432.9	457.0	485.8	520.4	558.3	599.8	649.3	708.0
140°	409.8	415.6	427.1	445.5	468.5	497.3	530.7	565.3	604.4	648.1	697.6
142.5°	423.7	428.3	440.9	457.0	480.1	506.5	538.8	572.2	607.8	645.8	688.4
145°	438.6	442.1	452.4	469.7	489.3	515.7	545.7	576.8	609.0	643.5	680.4
147.5°	453.6	455.9	466.2	481.2	500.8	523.8	551.4	580.2	609.0	640.1	672.3
150°	468.5	469.7	478.9	493.9	510.0	530.7	557.2	581.4	609.0	635.5	664.3
152.5°	483.5	483.5	492.7	505.4	519.2	538.8	560.6	583.7	605.5	629.7	655.0
155°	498.5	498.5	505.4	516.9	529.6	545.7	565.3	583.7	603.2	622.8	645.8
157.5°	510.0	511.1	516.9	527.3	538.8	551.4	567.6	584.8	599.8	617.1	635.5
160°	523.8	523.8	528.4	537.6	545.7	557.2	571.0	584.8	597.5	610.1	625.1
162.5°	534.2	534.2	537.6	544.5	551.4	560.6	572.2	583.7	592.9	603.2	614.8
165°	544.5	543.4	545.7	551.4	556.0	564.1	573.3	581.4	588.3	596.3	605.5
167.5°	552.6	551.4	552.6	557.2	560.6	566.4	573.3	580.2	583.7	589.4	596.3
170°	559.5	557.2	558.3	561.8	564.1	566.4	572.2	576.8	579.1	582.5	588.3
172.5°	564.1	562.9	562.9	565.3	566.4	567.6	572.2	575.6	575.6	576.8	580.2
175°	567.6	566.4	565.3	567.6	567.6	568.7	571.0	573.3	572.2	572.2	574.5
177.5°	569.9	568.7	567.6	568.7	568.7	568.7	569.9	572.2	569.9	568.7	569.9
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

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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°	28.8	29.9	31.1	33.4	32.2	33.4	34.5	33.4
92.5°	114.0	88.6	77.1	69.1	66.8	62.2	63.3	61.0
95°	414.4	280.9	219.9	178.4	156.6	146.2	138.1	133.5
97.5°	952.1	718.4	566.4	435.2	358.0	314.3	286.7	274.0
100°	1357.3	1264.0	1129.3	965.9	849.6	765.6	720.7	721.8
102.5°	1492.0	1511.6	1447.1	1358.4	1274.4	1212.2	1176.6	1143.2
105°	1496.6	1611.7	1633.6	1603.7	1550.7	1507.0	1470.1	1464.4
107.5°	1427.5	1608.3	1698.1	1729.1	1722.2	1701.5	1686.5	1673.9
110°	1319.3	1531.1	1676.2	1756.8	1789.0	1798.2	1795.9	1793.6

TEST NUMBER: P1007500

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1212.2	1429.8	1596.7	1706.1	1771.7	1805.1	1816.6	1817.8
115°	1120.1	1320.5	1489.7	1615.2	1701.5	1752.2	1775.2	1780.9
117.5°	1048.8	1226.1	1381.5	1511.6	1601.4	1657.8	1692.3	1700.4
120°	994.7	1150.1	1288.2	1404.5	1495.4	1559.9	1587.5	1594.4
122.5°	952.1	1089.1	1214.5	1320.5	1398.7	1455.1	1486.2	1495.4
125°	915.2	1040.7	1151.2	1243.3	1317.0	1367.7	1396.4	1404.5
127.5°	881.8	995.8	1097.1	1182.3	1249.1	1292.8	1319.3	1326.2
130°	850.8	954.4	1047.6	1125.9	1186.9	1228.4	1252.5	1261.7
132.5°	822.0	915.2	1000.4	1074.1	1130.5	1171.9	1192.7	1198.4
135°	796.6	878.4	953.2	1018.8	1075.2	1109.8	1130.5	1138.6
137.5°	772.5	841.5	908.3	967.0	1015.4	1051.1	1068.3	1075.2
140°	751.7	810.5	865.7	915.2	959.0	991.2	1009.6	1008.5
142.5°	732.2	780.5	826.6	868.0	903.7	931.3	947.5	946.3
145°	717.2	755.2	792.0	825.4	854.2	878.4	887.6	889.9
147.5°	704.5	735.6	766.7	790.9	813.9	831.2	840.4	841.5
150°	690.7	717.2	741.4	763.3	780.5	793.2	800.1	800.1
152.5°	678.1	699.9	720.7	737.9	750.6	762.1	765.6	765.6
155°	665.4	683.8	701.1	714.9	725.3	734.5	736.8	737.9
157.5°	651.6	667.7	681.5	693.0	702.2	709.2	711.5	711.5
160°	640.1	652.7	664.3	672.3	680.4	687.3	687.3	686.1
162.5°	626.3	636.6	647.0	653.9	658.5	664.3	664.3	663.1
165°	614.8	621.7	629.7	635.5	640.1	644.7	643.5	643.5
167.5°	604.4	610.1	614.8	619.4	621.7	625.1	624.0	624.0
170°	594.0	597.5	602.1	604.4	605.5	607.8	606.7	606.7
172.5°	584.8	587.1	590.6	591.7	591.7	594.0	591.7	590.6
175°	576.8	577.9	580.2	580.2	580.2	581.4	580.2	579.1
177.5°	571.0	572.2	573.3	573.3	572.2	573.3	571.0	571.0
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

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