202219003802

中国认可
国际互认
检测
TESTING
CNAS L2346

检 测 报 告

实验室检测地址：广东省佛山市禅城区榴苑路 18 号
电话：（业务受理）0757-82273883、0757-82668329
（报告查询）0757-82273885、0757-82706280
（异议投诉）0757-82273885、0757-82706280
（技术咨询）0757-82273886、0757-82273885
传真：0757-82783901
邮编：528000
网址：www.fcri.com.cn
E-mail：TEST@fcri.com

佛山市陶瓷研究所检测有限公司

佛山市陶瓷研究所检测有限公司 检验检测专用章

佛山市陶瓷研究所检测有限公司

Foshan Ceramics Research Institute Testing Co.,Ltd.

检 测 报 告

Test Report

202219003802

中国认可 国际互认 检测 TESTING CNAS L2346

报告编号(Report No.)：P34088/H250311-032

样品名称 Name of Sample	6#	样品描述 Shape of Sample	块状
委托单位 Applicant	彩虹显示器件股份有限公司	样品数量 Number of Samples	134 克
检测周期 Test Period	2025/03/11-2025/03/14	收样日期 Received Date	2025/03/11
检测项目 Testing Category	见下表	报告日期 Reported Date	2025/03/14
检测标准 Test Standard	GB/T 16537-2010,GB/T 1347-2008,GB/T 4734-2022,GB/T 30902-2014		
客户信息 Client Information	地址：陕西省咸阳市秦都区渭滨街道高科四路		

检 测 结 果（Results of Inspection）

序号	检测项目	结果(%)
1	Al_2O_3	16.77
2	SiO_2	61.18
3	Fe_2O_3	0.0061
4	CaO	6.90
5	MgO	1.05
6	K_2O	0.0031
7	Na_2O	0.0075
8	TiO_2	0.0099
9	Li_2O	0.0008
10	ZnO	0.0005
11	SrO	0.53
12	B_2O_3	11.80
13	BeO	<0.0001
14	BaO	0.50
15	SO_3	0.0084
16	SnO_2	0.0077
17	ZrO_2	0.28
18	Sb_2O_3	0.82

备注：设备精度 0.0001%。

以下空白。

声 明：

1.检测报告仅对来样负责，样品保留至报出结果后 15 天。The results in this report apply to the samples only.

2.检测报告盖章有效，报告部分复印无效。The Report is valid with the inspection organization stamp.

3.若对检测报告有异议，请于收到结果之日起 15 天内向本公司提出。Telling us in 15 days since you receive the report when you have any question with the test report.

4.样品名称及委托单位名称均由送检方提供。The sample's name and applicant name are provided by the client.

单位盖章：检验检测专用章 Stamp:

授权签字人：彭威 Authorized Organization:

审 核： Approval:

表格号：JL/R/01

Petitioner Ex 1011 002





China recognition
International mutual recognition
Testing
TESTING
CNAS L2346

Test report

Laboratory testing address: No.18, Liuyuan Road, Foshan, Guangdong, China
Tel: (Business reception) 0757-82273883, 0757-82668329
(Report inquiry) 0757-82273885, 0757-82706280
(Objection and complaint) 0757-82273885, 0757-82706280
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Fax: 0757-82783901
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Website: www.fcri.com.cn
E-mai1: TEST@fcri.com

Foshan Ceramics Research Institute Testing Co., Ltd.
[seal:] Special Seal for Inspection and Testing of Foshan Ceramics Research Institute Testing Co., Ltd.

Foshan Ceramics Research Institute Testing Co., Ltd.

Test report

Test Report

China recognition International mutual recognition Testing **TESTING CNAS L2346**

202219003802 Report No. : P34088/H250311-032

Sample Name Name of Sample	6#	**Sample Description Shape of Sample**	Block
Entrusting Unit Applicant	Caihong Display Devices Company Limited	**Sample Quantity Number of Samples**	134 g
Testing Cycle Test Period	2025/03/11-2025/03/14	**Receipt Date Received Date**	2025/03/11
Test items Testing Category	See table below	**Date of Report Reported Date**	2025/03/14
Testing Standard Test Standard	GB/T 16537-2010,GB/T 1347-2008,GB/T 4734-2022,GB/T 30902-2014		
Customer Information Client Information	Address: Gaoke 4th Road, Weibin Street, Qindu District, Xianyang City, Shaanxi Province		

Test Results

Serial number	Test items	Results (%)
1	Al_2O_3	16.77
2	SiO_2	61.18
3	Fe_2O_3	0.0061
4	CaO	6.90
5	MgO	1.05
6	K_2O	0.0031
7	Na_2O	0.075
8	TiO_2	0.0099
9	Li_2O	0.0008
10	ZnO	0.0005
11	SrO	0.53
12	B_2O_3	11.80
13	BeO	<0.0001
14	BaO	0.50
15	SO_3	0.0084
16	SnO_2	0.0077
17	ZrO_2	0.28
18	Sb_2O_3	0.82

Remarks: Device accuracy 0.0001%.

Blank below.

Statement:

1. The test report is only responsible for the samples provided, and the samples will be retained for 15 days after the results are reported. The results in this report apply to the samples only.
2. The test report is valid with a stamp, and partial copies of the report are invalid. The Report is valid with the inspection organization stamp.
3. If you have any objection to the test report, please submit it to our company within 15 days from the date of receipt of the results. Telling us in 15 days since you receive the report when you have any question with the test report.
4. The sample name and the name of the entrusting unit are provided by the party submitting the sample for testing. The sample's name and applicant name are provided by the client.

Unit seal: Stamp: [seal:] Special Seal for Inspection and Testing of Foshan Ceramics Research Institute Testing Co., Ltd.

Authorized Signatory: Wei Peng
Authorized Organization: [signature]

Reviewed by: [signature]
Approval:

Form No.: JL/R/O1

测试报告

报告编号 2025.3.1800134

样品名称 电子玻璃

样品来源 单位委托

委托单位

陕西飞纳科技有限公司

测试要求

1.低温热膨胀系数测试温度范围：0~300℃。

2. 低温热膨胀系数测试升温速率为 5℃/min。

3. 数据曲线不发生异常漂移，结果稳定。

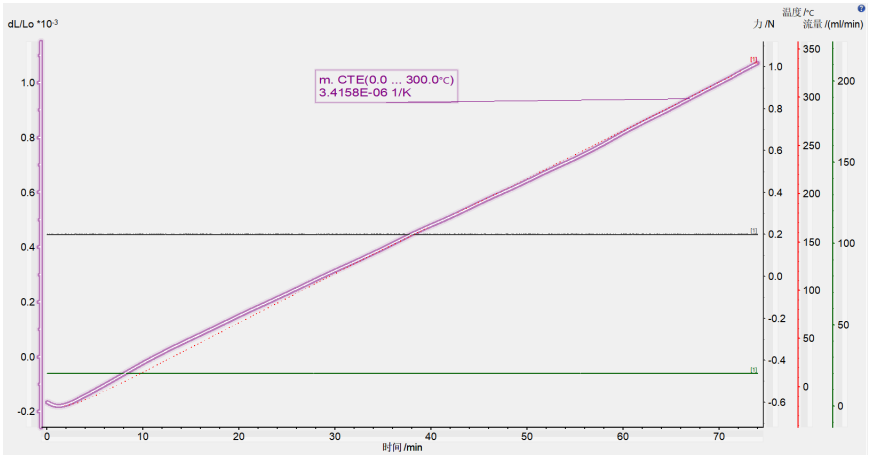
4. 要求数据有温度曲线图以及具体测试结果。

5. 要求出具纸质报告和原始数据记录。

测试结果

结果图（$dL/Lo*10^{-3}$-T）：

试件 4（6#）

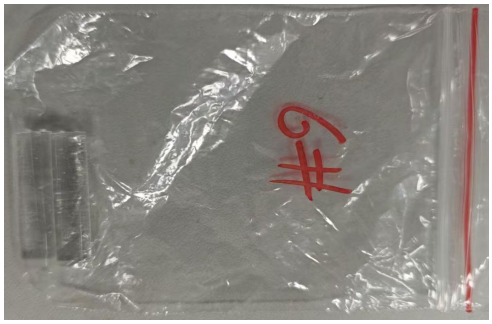


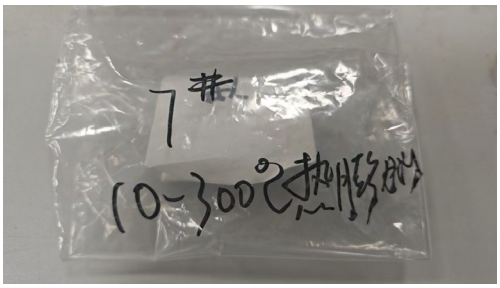
膨胀系数：

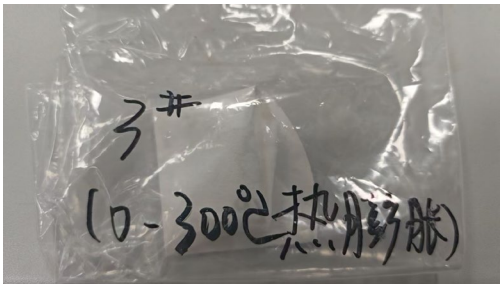
样品编号	样品名称	测试项目	测试结果	参考标准
2025.3.18-4	电子玻璃 6#	膨胀系数（0-300℃）	3.4158E-06 1/K	GB/T 16920-2015

样品照片：











Test report

Report No. 2025.3.1800134

Sample Name Electronic Glass

Sample source Entrusted by the unit

Entrusting Unit_____

Shaanxi Feina Technology Co., Ltd.

Test requirements

1.Low-temperature coefficient of thermal expansion test temperature range: 0 to 300°C.

2. The heating rate for low-temperature thermal expansion coefficient test is 5℃/min.

3. The data curve does not exhibit abnormal drift and the results are stable.

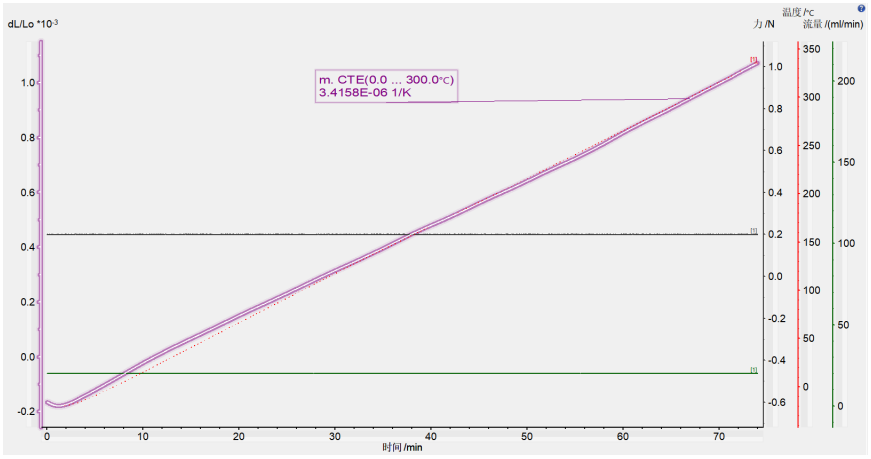
4. The data required include a temperature curve graph and specific test results.

5. Paper reports and original data records are required.

Test results

Result graph (dL/Lo*10^{-3}-T):

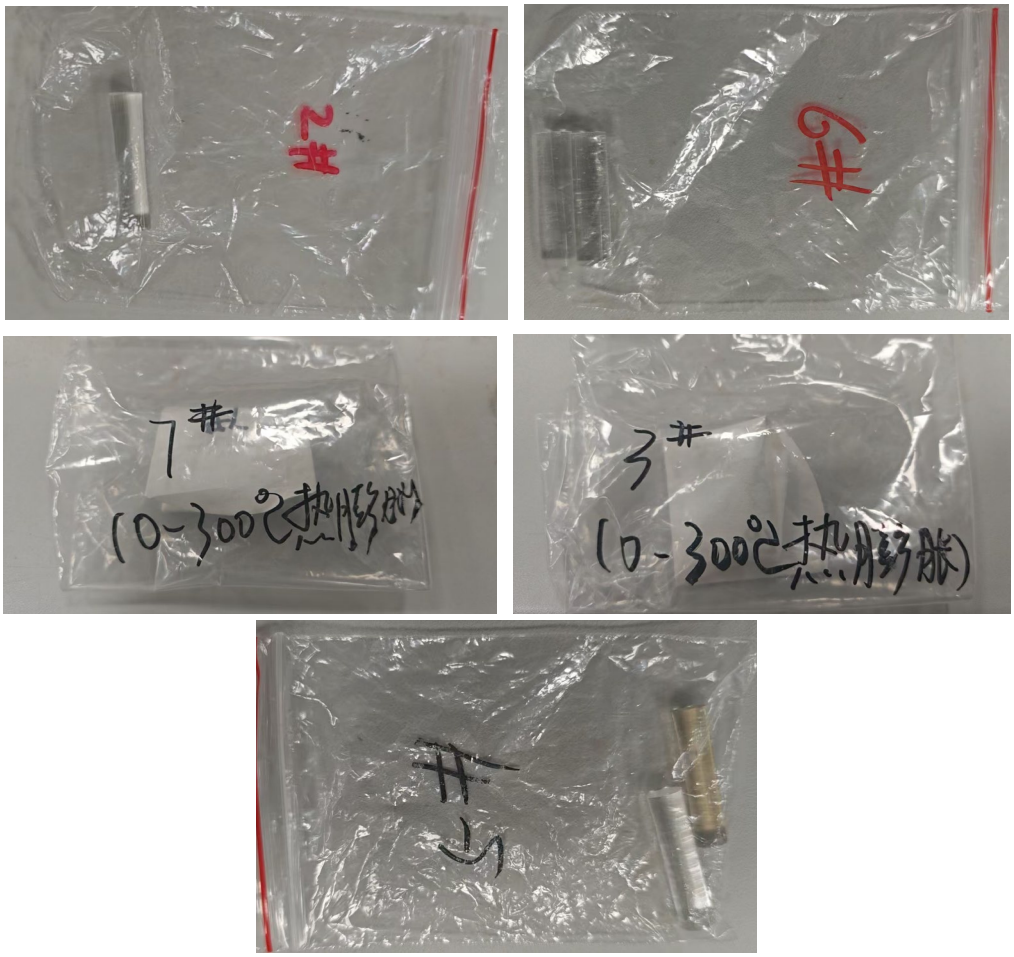
Test piece 4 (6#)



Expansion coefficient:

Sample No.	Sample Name	Test items	Test results	Reference standards
2025.3.18-4	Electronic glass 6#	Expansion coefficient (0-300°C)	3.4158E-06 1/K	GB/T 16920-2015

Sample photo:



#EXPORTTYP	DATA SINGLE
#FILE:	电子玻璃-6#.ngb-dla
#FORMAT:	NETZSCH5
#FTYPE:	UNICODE
#IDENTITY:	6#
#MTYPE:	DIL
#INSTRUMEN	NETZSCH DIL 402SE
#PROJECT:	
#DATE/TIME:	2025/3/17 22:32:24 (UTC+8)
#CORR. FILE:	-20-350修正new.ngb-cla
#TEMPCAL:	TCALZERO.TMX
#LABORATOF	
#OPERATOR:	
#REMARK:	
#SAMPLE:	6#
#SAMPLE LEI	25.504
#MATERIAL:	Al3O2
#MEASMODE	Standard Expansion
#PROTECTIVI	HELIUM,211.0 ml/min
#M.RANGE /µı	20000
#CORR. CODI	80
#RANGE:	-20°C/5.0(K/min)/350°C
#SEGMENT:	S1/1
#SEG. 1:	-20°C/5.0(K/min)/350°C

##Temp./°C	Time/min	dL/Lo
0.00000	6.97950	-8.340866E-5
1.00000	7.18502	-7.934423E-5
2.00000	7.38945	-7.522455E-5
3.00000	7.59311	-7.108509E-5
4.00000	7.79574	-6.709039E-5
5.00000	7.99739	-6.295204E-5
6.00000	8.19768	-5.887652E-5
7.00000	8.39690	-5.498601E-5
8.00000	8.59590	-5.081612E-5
9.00000	8.79486	-4.684627E-5
10.00000	8.99347	-4.288106E-5
11.00000	9.19147	-3.896379E-5
12.00000	9.38886	-3.508945E-5
13.00000	9.58569	-3.124386E-5
14.00000	9.78202	-2.741098E-5
15.00000	9.97807	-2.362250E-5
16.00000	10.17404	-1.985550E-5
17.00000	10.36982	-1.611141E-5
18.00000	10.56544	-1.238876E-5
19.00000	10.76079	-8.674209E-6
20.00000	10.95583	-5.141869E-6
21.00000	11.15090	-1.427072E-6
22.00000	11.34609	2.152693E-6
23.00000	11.54135	5.753000E-6
24.00000	11.73674	9.206668E-6
25.00000	11.93182	1.269601E-5
26.00000	12.12663	1.634825E-5
27.00000	12.32155	1.979472E-5
28.00000	12.51624	2.348185E-5
29.00000	12.71082	2.692355E-5

30.00000	12.90558	3.037441E-5
31.00000	13.10056	3.373810E-5
32.00000	13.29542	3.704499E-5
33.00000	13.49001	4.018983E-5
34.00000	13.68471	4.339823E-5
35.00000	13.87949	4.660126E-5
36.00000	14.07411	4.989484E-5
37.00000	14.26860	5.328301E-5
38.00000	14.46308	5.668994E-5
39.00000	14.65769	6.005464E-5
40.00000	14.85231	6.324841E-5
41.00000	15.04713	6.652991E-5
42.00000	15.24210	6.973853E-5
43.00000	15.43696	7.285666E-5
44.00000	15.63170	7.612052E-5
45.00000	15.82642	7.933882E-5
46.00000	16.02125	8.257271E-5
47.00000	16.21617	8.589035E-5
48.00000	16.41117	8.911980E-5
49.00000	16.60627	9.239093E-5
50.00000	16.80145	9.557384E-5
51.00000	16.99675	9.895105E-5
52.00000	17.19213	1.022456E-4
53.00000	17.38747	1.057001E-4
54.00000	17.58275	1.088411E-4
55.00000	17.77814	1.122008E-4
56.00000	17.97371	1.155061E-4
57.00000	18.16952	1.188012E-4
58.00000	18.36524	1.220130E-4
59.00000	18.56078	1.252720E-4
60.00000	18.75653	1.286342E-4
61.00000	18.95248	1.318880E-4
62.00000	19.14832	1.352169E-4
63.00000	19.34415	1.385821E-4
64.00000	19.54004	1.419774E-4
65.00000	19.73590	1.452822E-4
66.00000	19.93175	1.487251E-4
67.00000	20.12771	1.519358E-4
68.00000	20.32377	1.551891E-4
69.00000	20.51954	1.585014E-4
70.00000	20.71510	1.617989E-4
71.00000	20.91046	1.650162E-4
72.00000	21.10559	1.682635E-4
73.00000	21.30076	1.713484E-4
74.00000	21.49589	1.745438E-4
75.00000	21.69108	1.777150E-4
76.00000	21.88629	1.807627E-4
77.00000	22.08153	1.839229E-4
78.00000	22.27680	1.870780E-4
79.00000	22.47210	1.902055E-4
80.00000	22.66761	1.933906E-4
81.00000	22.86312	1.964622E-4
82.00000	23.05834	1.995411E-4
83.00000	23.25360	2.027526E-4
84.00000	23.44887	2.058439E-4
85.00000	23.64403	2.092411E-4

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86.00000	23.83939	2.123846E-4
87.00000	24.03492	2.155472E-4
88.00000	24.23075	2.187943E-4
89.00000	24.42677	2.219869E-4
90.00000	24.62287	2.251439E-4
91.00000	24.81917	2.284494E-4
92.00000	25.01546	2.316884E-4
93.00000	25.21177	2.348729E-4
94.00000	25.40804	2.381489E-4
95.00000	25.60446	2.413438E-4
96.00000	25.80098	2.446205E-4
97.00000	25.99755	2.478655E-4
98.00000	26.19431	2.511943E-4
99.00000	26.39103	2.544348E-4
100.00000	26.58785	2.576845E-4
101.00000	26.78473	2.610550E-4
102.00000	26.98157	2.644508E-4
103.00000	27.17847	2.678124E-4
104.00000	27.37535	2.711460E-4
105.00000	27.57209	2.743970E-4
106.00000	27.76892	2.777760E-4
107.00000	27.96583	2.811658E-4
108.00000	28.16272	2.844054E-4
109.00000	28.35957	2.877582E-4
110.00000	28.55651	2.910725E-4
111.00000	28.75349	2.942338E-4
112.00000	28.95054	2.974478E-4
113.00000	29.14763	3.007765E-4
114.00000	29.34491	3.039469E-4
115.00000	29.54239	3.071840E-4
116.00000	29.73998	3.102854E-4
117.00000	29.93743	3.134690E-4
118.00000	30.13498	3.165797E-4
119.00000	30.33281	3.197076E-4
120.00000	30.53089	3.228135E-4
121.00000	30.72921	3.259167E-4
122.00000	30.92777	3.290008E-4
123.00000	31.12654	3.321372E-4
124.00000	31.32554	3.353152E-4
125.00000	31.52459	3.383790E-4
126.00000	31.72363	3.416843E-4
127.00000	31.92267	3.447647E-4
128.00000	32.12178	3.479755E-4
129.00000	32.32109	3.512408E-4
130.00000	32.52069	3.544477E-4
131.00000	32.72044	3.580991E-4
132.00000	32.92026	3.611819E-4
133.00000	33.12020	3.643520E-4
134.00000	33.32043	3.676936E-4
135.00000	33.52104	3.709229E-4
136.00000	33.72197	3.742820E-4
137.00000	33.92298	3.776904E-4
138.00000	34.12428	3.808817E-4
139.00000	34.32586	3.842611E-4
140.00000	34.52744	3.875669E-4
141.00000	34.72916	3.910268E-4

142.00000	34.93117	3.945042E-4
143.00000	35.13367	3.979916E-4
144.00000	35.33644	4.013902E-4
145.00000	35.53918	4.049160E-4
146.00000	35.74191	4.084816E-4
147.00000	35.94471	4.120640E-4
148.00000	36.14785	4.156690E-4
149.00000	36.35122	4.192856E-4
150.00000	36.55487	4.228105E-4
151.00000	36.75870	4.265256E-4
152.00000	36.96273	4.302340E-4
153.00000	37.16712	4.336920E-4
154.00000	37.37184	4.372662E-4
155.00000	37.57686	4.407582E-4
156.00000	37.78222	4.442498E-4
157.00000	37.98751	4.476334E-4
158.00000	38.19264	4.510118E-4
159.00000	38.39788	4.544111E-4
160.00000	38.60317	4.576335E-4
161.00000	38.80862	4.610753E-4
162.00000	39.01434	4.642385E-4
163.00000	39.21961	4.675671E-4
164.00000	39.42280	4.707542E-4
165.00000	39.62528	4.739992E-4
166.00000	39.83017	4.771964E-4
167.00000	40.03696	4.803908E-4
168.00000	40.24360	4.833874E-4
169.00000	40.44970	4.865205E-4
170.00000	40.65544	4.896171E-4
171.00000	40.86087	4.927913E-4
172.00000	41.06622	4.958970E-4
173.00000	41.27138	4.991599E-4
174.00000	41.47615	5.023883E-4
175.00000	41.68051	5.055906E-4
176.00000	41.88469	5.089339E-4
177.00000	42.08916	5.122396E-4
178.00000	42.29370	5.153975E-4
179.00000	42.49812	5.187152E-4
180.00000	42.70250	5.220434E-4
181.00000	42.90675	5.254156E-4
182.00000	43.11101	5.287822E-4
183.00000	43.31546	5.322864E-4
184.00000	43.52004	5.357575E-4
185.00000	43.72443	5.392330E-4
186.00000	43.92884	5.426937E-4
187.00000	44.13331	5.462760E-4
188.00000	44.33757	5.498667E-4
189.00000	44.54157	5.533353E-4
190.00000	44.74557	5.567092E-4
191.00000	44.94938	5.601364E-4
192.00000	45.15294	5.634940E-4
193.00000	45.35666	5.669217E-4
194.00000	45.56050	5.701964E-4
195.00000	45.76423	5.736592E-4
196.00000	45.96777	5.768344E-4
197.00000	46.17125	5.800406E-4

198.00000	46.37464	5.832646E-4
199.00000	46.57784	5.865102E-4
200.00000	46.78088	5.896158E-4
201.00000	46.98380	5.928671E-4
202.00000	47.18669	5.960213E-4
203.00000	47.38942	5.992301E-4
204.00000	47.59193	6.024414E-4
205.00000	47.79444	6.055209E-4
206.00000	47.99676	6.086487E-4
207.00000	48.19913	6.118128E-4
208.00000	48.40153	6.150759E-4
209.00000	48.60391	6.183840E-4
210.00000	48.80628	6.218967E-4
211.00000	49.00839	6.251990E-4
212.00000	49.21029	6.285181E-4
213.00000	49.41225	6.319446E-4
214.00000	49.61445	6.353070E-4
215.00000	49.81665	6.386366E-4
216.00000	50.01878	6.421100E-4
217.00000	50.22091	6.453758E-4
218.00000	50.42304	6.487679E-4
219.00000	50.62504	6.521514E-4
220.00000	50.82690	6.555662E-4
221.00000	51.02859	6.589955E-4
222.00000	51.23032	6.624805E-4
223.00000	51.43179	6.659904E-4
224.00000	51.63295	6.694403E-4
225.00000	51.83416	6.728574E-4
226.00000	52.03531	6.762453E-4
227.00000	52.23662	6.794654E-4
228.00000	52.43801	6.828193E-4
229.00000	52.63910	6.859998E-4
230.00000	52.84014	6.892383E-4
231.00000	53.04099	6.925065E-4
232.00000	53.24192	6.957902E-4
233.00000	53.44296	6.990623E-4
234.00000	53.64391	7.022036E-4
235.00000	53.84479	7.055362E-4
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237.00000	54.24691	7.117959E-4
238.00000	54.44781	7.150616E-4
239.00000	54.64867	7.183821E-4
240.00000	54.84940	7.216343E-4
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242.00000	55.25047	7.283414E-4
243.00000	55.45131	7.318079E-4
244.00000	55.65228	7.352213E-4
245.00000	55.85315	7.387834E-4
246.00000	56.05392	7.422787E-4
247.00000	56.25456	7.457549E-4
248.00000	56.45511	7.494386E-4
249.00000	56.65573	7.530939E-4
250.00000	56.85641	7.566889E-4
251.00000	57.05695	7.603048E-4
252.00000	57.25731	7.641023E-4
253.00000	57.45777	7.679008E-4

254.00000	57.65823	7.716840E-4
255.00000	57.85860	7.753805E-4
256.00000	58.05905	7.791185E-4
257.00000	58.25943	7.829484E-4
258.00000	58.45962	7.869394E-4
259.00000	58.65969	7.909045E-4
260.00000	58.85974	7.952680E-4
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262.00000	59.26018	8.030459E-4
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265.00000	59.86119	8.149105E-4
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269.00000	60.66256	8.299787E-4
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271.00000	61.06373	8.374145E-4
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273.00000	61.46456	8.446228E-4
274.00000	61.66490	8.481683E-4
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276.00000	62.06552	8.553592E-4
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281.00000	63.06667	8.729516E-4
282.00000	63.26674	8.764342E-4
283.00000	63.46673	8.799170E-4
284.00000	63.66663	8.833182E-4
285.00000	63.86645	8.867469E-4
286.00000	64.06634	8.901096E-4
287.00000	64.26640	8.935163E-4
288.00000	64.46660	8.971708E-4
289.00000	64.66669	9.006457E-4
290.00000	64.86683	9.043445E-4
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292.00000	65.26729	9.117475E-4
293.00000	65.46766	9.153937E-4
294.00000	65.66818	9.190447E-4
295.00000	65.86850	9.227261E-4
296.00000	66.06892	9.265350E-4
297.00000	66.26951	9.301309E-4
298.00000	66.47000	9.337610E-4
299.00000	66.67041	9.376888E-4
300.00000	66.87078	9.413334E-4

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