

1.ASP

$$Z = \frac{y^2}{R \left[1 + \sqrt{1 - (1 + K)y^2/R^2} \right]} + Ay^2 + By^4 + Cy^6 + Dy^8 + Ey^{10} + Fy^{12}$$

R = 136.008079 mm

K = -1.000000

B = -2.014185e-06

C = 1.388297e-09

D = -8.408147e-13

E = 2.795952e-16

F = 0.000000e+00

2.要求

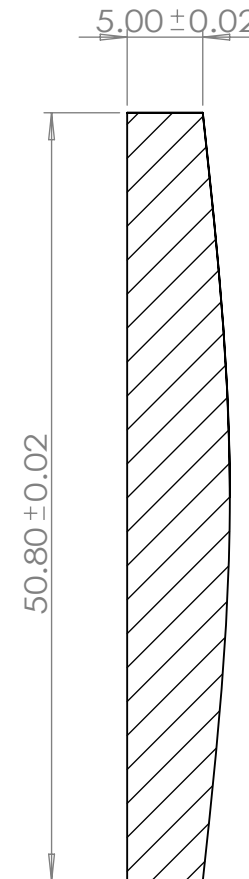
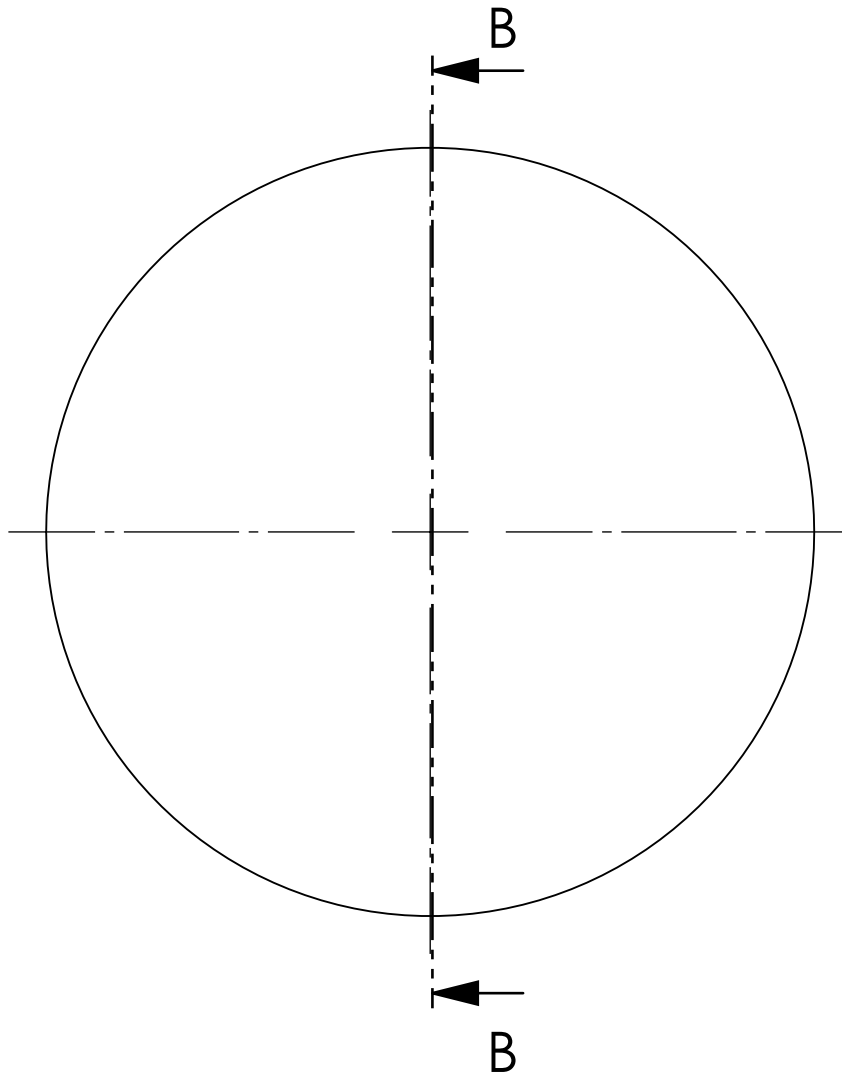
透射面型pv<1/2λ

T≥99%@800nm

3.矢高数据

Y-coordinate (mm)	Sag (mm)
0	0
1	0.003674239
2	0.01467287
3	0.032924127
4	0.058310035
5	0.090668806
6	0.129798073
7	0.175458863
8	0.227380167
9	0.28526394
10	0.348790383
11	0.417623305
12	0.491415391
13	0.569813202
14	0.652461752
15	0.739008527
16	0.829106859
17	0.922418624
18	1.018616271
19	1.117384327
20	1.218420543
21	1.321437025
22	1.426161799
23	1.532341387
24	1.639745189
25.4	1.79179274

$$\left\{ \begin{array}{l} shape_func = \frac{(\frac{1}{2a} \ln(z_1 + ar^2) - \frac{1}{2a} \ln z_1)}{n-1} \\ z_1 = 300[mm] \\ a = \frac{120[mm]}{(19.05[mm])^2} \end{array} \right.$$



剖面 B-B

	名称	签名	日期				标题:	
绘制	杨新涛	杨新涛					120mm焦深透镜	
检查	杨新涛	杨新涛						
批准								
制造								
验检				材料:			工程图号	A3
				石英玻璃JGS-3			Axicon-120	
				重量: 11.79			比例:2:1	图纸 1 (共1)