

1.ASP

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

R = 136.101258 mm  
K = -1.000000  
B = -3.299973e-06  
C = 3.456517e-09  
D = -2.785889e-12  
E = 1.095972e-15  
F = 0.000000e+00

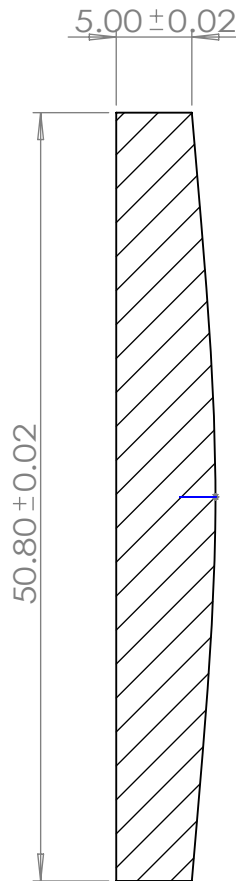
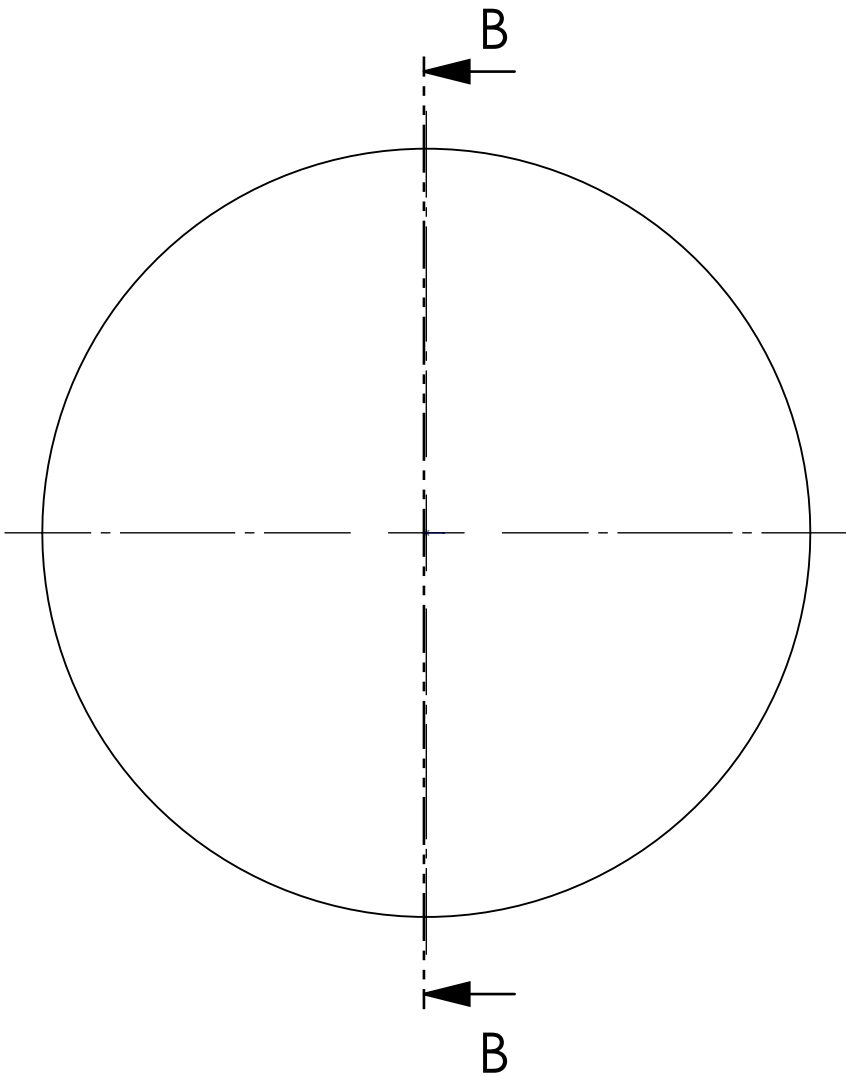
2.要求

透射面型pv<1/2λ  
T≥99%@800nm

3.矢高数据

| Y-coordinate (mm) | Sag (mm)    |
|-------------------|-------------|
| 0                 | 0           |
| 1                 | 0.003670439 |
| 2                 | 0.014642362 |
| 3                 | 0.032798822 |
| 4                 | 0.057948949 |
| 5                 | 0.089833831 |
| 6                 | 0.128134361 |
| 7                 | 0.172480701 |
| 8                 | 0.222462914 |
| 9                 | 0.277642271 |
| 10                | 0.337562689 |
| 11                | 0.401761745 |
| 12                | 0.469780726 |
| 13                | 0.541173237 |
| 14                | 0.615511954 |
| 15                | 0.692393259 |
| 16                | 0.771439666 |
| 17                | 0.852300156 |
| 18                | 0.934648841 |
| 19                | 1.018182698 |
| 20                | 1.102619516 |
| 21                | 1.187697663 |
| 22                | 1.273179814 |
| 23                | 1.358863387 |
| 24                | 1.444601118 |
| 25.4              | 1.564642219 |

$$\left\{ \begin{aligned} shape\_func &= \frac{(\frac{1}{2a} \ln(z_1 + ar^2) - \frac{1}{2a} \ln z_1)}{n-1} \\ z_1 &= 300[mm] \\ a &= \frac{200[mm]}{(19.05[mm])^2} \end{aligned} \right.$$



剖面 B-B

|    |     |     |    |  |  |  |              |  |
|----|-----|-----|----|--|--|--|--------------|--|
|    | 名称  | 签名  | 日期 |  |  |  | 标题:          |  |
| 绘制 | 杨新涛 | 杨新涛 |    |  |  |  | 200mm焦深透镜    |  |
| 检查 | 杨新涛 | 杨新涛 |    |  |  |  |              |  |
| 批准 |     |     |    |  |  |  |              |  |
| 制造 |     |     |    |  |  |  |              |  |
| 验检 |     |     |    |  |  |  | 工程图号         |  |
|    |     |     |    |  |  |  | Axicon-200mm |  |
|    |     |     |    |  |  |  | A3           |  |
|    |     |     |    |  |  |  | 图纸 1 (共1)    |  |
|    |     |     |    |  |  |  |              |  |