```
********************** inputs ******************************
Material:                                  Be
E (Photon Beam Energy) [eV]:               7400.0000
R (Holes' curvature radius) [mm]:          0.200000
N (Number of holes):                       7.00000
p (source-CRL distance) [m]:               66.9000
d (inter-hole distance) [microns]:         50.0000
S Sorce Size RMS [microns]:                10.0000

********************** references ************************
Ref 1: P. Elleaume, NIM A412 (1988) pp.483-505
Ref 2: A. Snigirev et al. Applied Optics (1998) pp.653-656

********************** outputs ***************************

Delta and Beta from DABAX file:  f1f2_Windt.dat
Mu from DABAX file:              CrossSec_XCOM.dat
Delta:              6.2331019e-06
Beta:               2.8926777e-09
Mu [cm^-1]:         2.5685619

Focal distance [m] F=R/(2N Delta):              2.2919110
q CRL-focus distance [m] (1/F)=(1/p)+(1/q):     2.3732144

Effective "transparent" lens aperture [mm] (Ref 2 eq.15):    0.17706058
Effective "absorber" lens aperture [mm] (Ref 2 eq. 16):      2.9830873
Diffraction Limited Resolution [microns] (Ref 2 eq. 18):     2.2452511
Ideal RMS image size [microns] S*(q/p) :                     0.35474056
RMS lens acceptance [mm] (Ref 1 eq. 9) :                     0.23583376

Nmax (maximum number of holes) (Ref 1 eq. 21):               198
Ideal Gain: (Ref 1 eq. 19)                                   81.657526
Maximum Ideal Gain (with N=Nmax, Ref 1 eq. 21):              2743.5589
Real Gain (Ref 1 eq. 22):                                    472.39726
```

```
********************** inputs ******************************
Material:                                  Be
E (Photon Beam Energy) [eV]:               7400.0000
R (Holes' curvature radius) [mm]:          1.00000
N (Number of holes):                       36.0000
p (source-CRL distance) [m]:               66.9000
d (inter-hole distance) [microns]:         50.0000
S Sorce Size RMS [microns]:                10.0000

********************** references **************************
Ref 1: P. Elleaume, NIM A412 (1988) pp.483-505
Ref 2: A. Snigirev et al. Applied Optics (1998) pp.653-656

********************** outputs *****************************

Delta and Beta from DABAX file:  f1f2_Windt.dat
Mu from DABAX file:              CrossSec_XCOM.dat
Delta:              6.2331019e-06
Beta:               2.8926777e-09
Mu [cm^-1]:         2.5685619

Focal distance [m] F=R/(2N Delta):              2.2282468
q CRL-focus distance [m] (1/F)=(1/p)+(1/q):     2.3050204

Effective "transparent" lens aperture [mm] (Ref 2 eq.15):    0.39314094
Effective "absorber" lens aperture [mm] (Ref 2 eq. 16):      2.9413637
Diffraction Limited Resolution [microns] (Ref 2 eq. 18):     0.98214666
Ideal RMS image size [microns] S*(q/p) :                     0.34454714
RMS lens acceptance [mm] (Ref 1 eq. 9) :                     0.23253522

Nmax (maximum number of holes) (Ref 1 eq. 21):               201
Ideal Gain: (Ref 1 eq. 19)                                   414.07921
Maximum Ideal Gain (with N=Nmax, Ref 1 eq. 21):              2743.5589
Real Gain (Ref 1 eq. 22):                                    743.39379
```