

- [**0.1. Finite Emittance; magnetic field: BM**](#)
 - [**0.1.1. Finite Emittance; magnetic field: BM; E=5 keV**](#)
 - [**0.1.2. Finite Emittance; magnetic field: BM; E=10 keV**](#)
 - [**0.1.3. Finite Emittance; magnetic field: BM; E=20 keV**](#)
 - [**0.1.4. Finite Emittance; magnetic field: BM; E=40 keV**](#)
 - [**0.1.5. Finite Emittance; magnetic field: BM; E=80 keV**](#)
- [**0.2. Finite Emittance; magnetic field: 3Pcut**](#)
 - [**0.2.1. Finite Emittance; magnetic field: 3Pcut; E=5 keV**](#)
 - [**0.2.2. Finite Emittance; magnetic field: 3Pcut; E=10 keV**](#)
 - [**0.2.3. Finite Emittance; magnetic field: 3Pcut; E=20 keV**](#)
 - [**0.2.4. Finite Emittance; magnetic field: 3Pcut; E=40 keV**](#)
 - [**0.2.5. Finite Emittance; magnetic field: 3Pcut; E=80 keV**](#)
- [**0.3. Finite Emittance; magnetic field: 2PAcut**](#)
 - [**0.3.1. Finite Emittance; magnetic field: 2PAcut; E=5 keV**](#)
 - [**0.3.2. Finite Emittance; magnetic field: 2PAcut; E=10 keV**](#)
 - [**0.3.3. Finite Emittance; magnetic field: 2PAcut; E=20 keV**](#)
 - [**0.3.4. Finite Emittance; magnetic field: 2PAcut; E=40 keV**](#)
 - [**0.3.5. Finite Emittance; magnetic field: 2PAcut; E=80 keV**](#)
- [**0.4. Finite Emittance; magnetic field: 2PBcut**](#)
 - [**0.4.1. Finite Emittance; magnetic field: 2PBcut; E=5 keV**](#)
 - [**0.4.2. Finite Emittance; magnetic field: 2PBcut; E=10 keV**](#)
 - [**0.4.3. Finite Emittance; magnetic field: 2PBcut; E=20 keV**](#)
 - [**0.4.4. Finite Emittance; magnetic field: 2PBcut; E=40 keV**](#)
 - [**0.4.5. Finite Emittance; magnetic field: 2PBcut; E=80 keV**](#)
- [**0.5. Finite Emittance; magnetic field: 1Pcut**](#)
 - [**0.5.1. Finite Emittance; magnetic field: 1Pcut; E=5 keV**](#)
 - [**0.5.2. Finite Emittance; magnetic field: 1Pcut; E=10 keV**](#)
 - [**0.5.3. Finite Emittance; magnetic field: 1Pcut; E=20 keV**](#)
 - [**0.5.4. Finite Emittance; magnetic field: 1Pcut; E=40 keV**](#)
 - [**0.5.5. Finite Emittance; magnetic field: 1Pcut; E=80 keV**](#)
- [**0.6. Finite Emittance; magnetic field: 3P**](#)
 - [**0.6.1. Finite Emittance; magnetic field: 3P; E=5 keV**](#)
 - [**0.6.2. Finite Emittance; magnetic field: 3P; E=10 keV**](#)
 - [**0.6.3. Finite Emittance; magnetic field: 3P; E=20 keV**](#)
 - [**0.6.4. Finite Emittance; magnetic field: 3P; E=40 keV**](#)
 - [**0.6.5. Finite Emittance; magnetic field: 3P; E=80 keV**](#)
- [**0.7. Finite Emittance; magnetic field: 2PA**](#)
 - [**0.7.1. Finite Emittance; magnetic field: 2PA; E=5 keV**](#)
 - [**0.7.2. Finite Emittance; magnetic field: 2PA; E=10 keV**](#)
 - [**0.7.3. Finite Emittance; magnetic field: 2PA; E=20 keV**](#)
 - [**0.7.4. Finite Emittance; magnetic field: 2PA; E=40 keV**](#)
 - [**0.7.5. Finite Emittance; magnetic field: 2PA; E=80 keV**](#)
- [**0.8. Finite Emittance; magnetic field: 2PB**](#)
 - [**0.8.1. Finite Emittance; magnetic field: 2PB; E=5 keV**](#)
 - [**0.8.2. Finite Emittance; magnetic field: 2PB; E=10 keV**](#)
 - [**0.8.3. Finite Emittance; magnetic field: 2PB; E=20 keV**](#)
 - [**0.8.4. Finite Emittance; magnetic field: 2PB; E=40 keV**](#)
 - [**0.8.5. Finite Emittance; magnetic field: 2PB; E=80 keV**](#)
- [**0.9. Finite Emittance; magnetic field: 1P**](#)

- [0.9.1. Finite Emittance; magnetic field: 1P; E=5 keV](#)
 - [0.9.2. Finite Emittance; magnetic field: 1P; E=10 keV](#)
 - [0.9.3. Finite Emittance; magnetic field: 1P; E=20 keV](#)
 - [0.9.4. Finite Emittance; magnetic field: 1P; E=40 keV](#)
 - [0.9.5. Finite Emittance; magnetic field: 1P; E=80 keV](#)
 - [0.10. Finite Emittance; magnetic field: 0P](#)
 - [0.10.1. Finite Emittance; magnetic field: 0P; E=5 keV](#)
 - [0.10.2. Finite Emittance; magnetic field: 0P; E=10 keV](#)
 - [0.10.3. Finite Emittance; magnetic field: 0P; E=20 keV](#)
 - [0.10.4. Finite Emittance; magnetic field: 0P; E=40 keV](#)
 - [0.10.5. Finite Emittance; magnetic field: 0P; E=80 keV](#)
-

0.1. Finite Emittance; magnetic field: BM



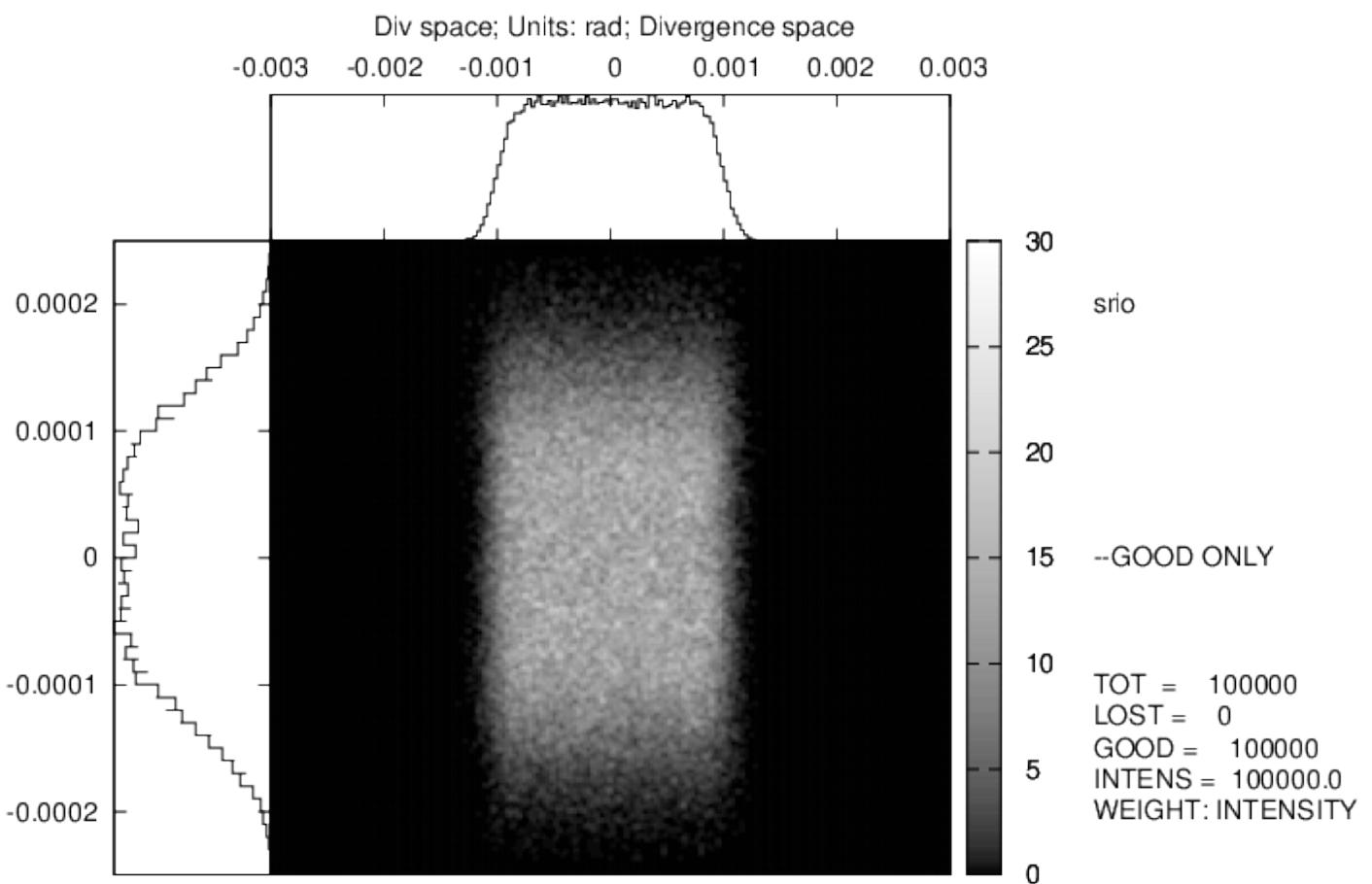
0.1.1. Finite Emittance; magnetic field: BM; E=5 keV

0.1.1.1. Divergence space

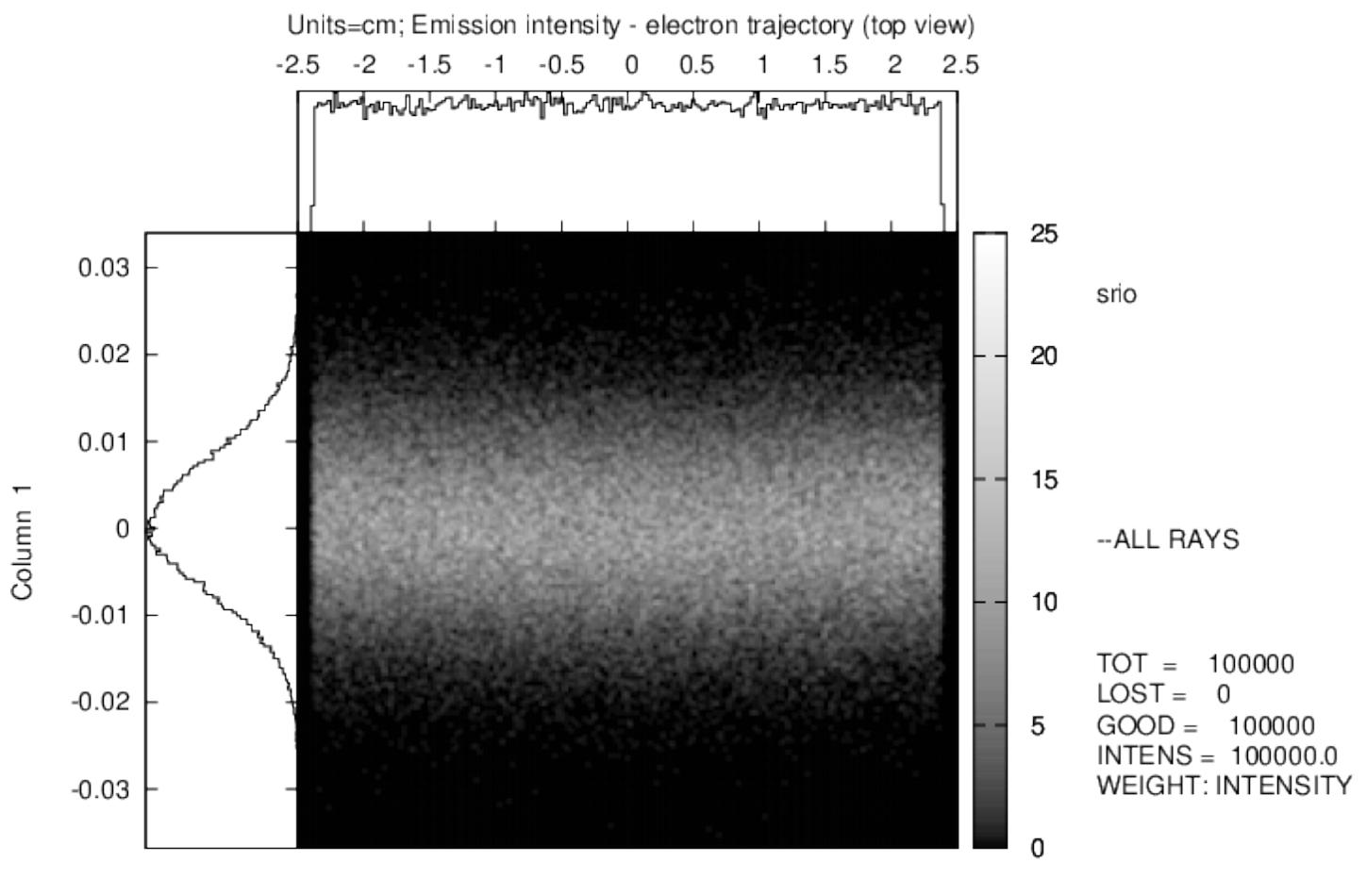
FW25M H: 2119.403 urad V: 318.408 urad

FWHM H: 1970.149 urad V: 261.194 urad

FW75M H: 1791.045 urad V: 199.005 urad



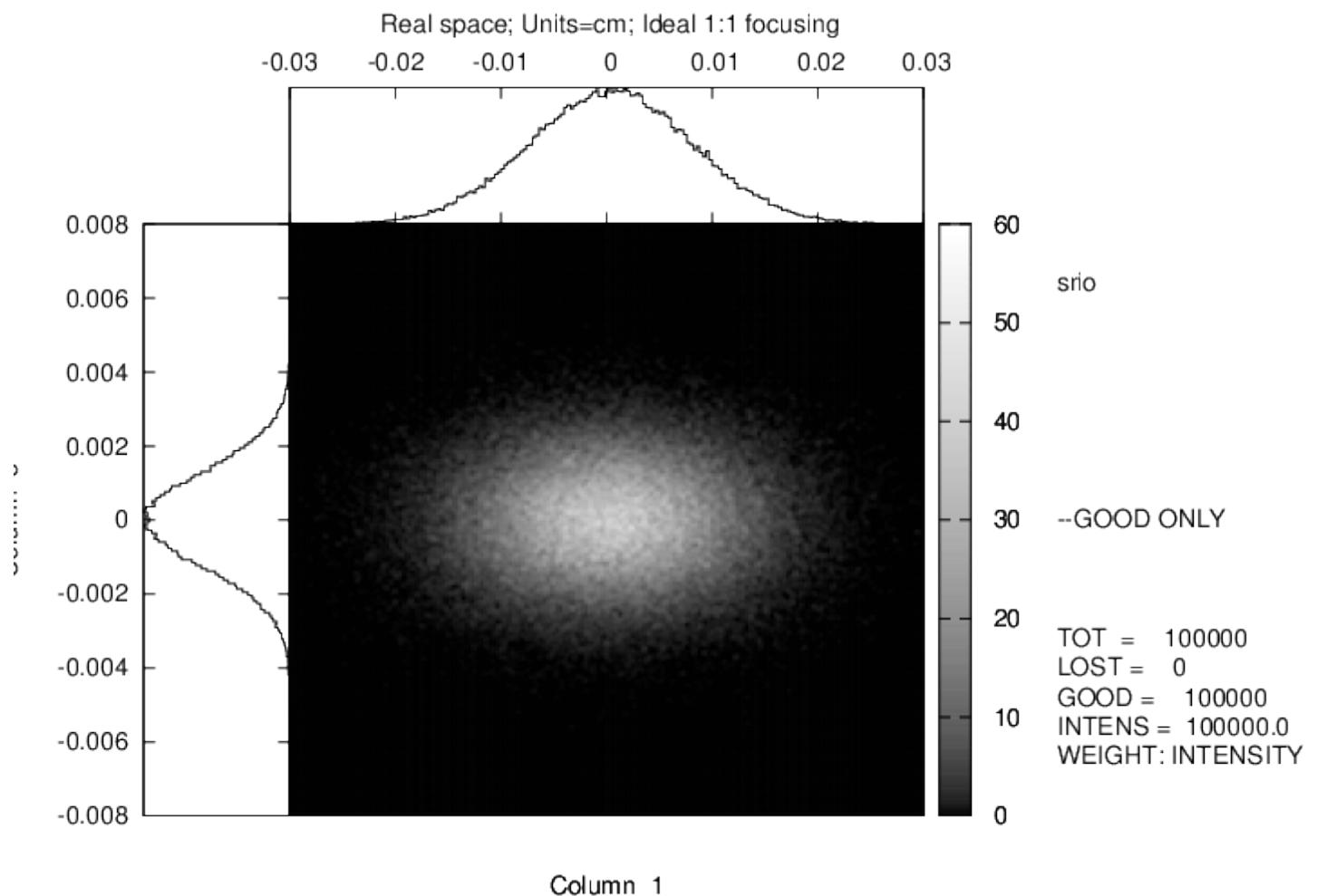
Column 4

Column 4**0.1.1.2. Emission intensity - electron trajectory (top view)****Column 2****0.1.1.3. Ideal 1:1 focusing**

FW25M H: 253.731 um V: 42.189 um

FWHM H: 179.104 um V: 29.453 um

FW75M H: 107.463 um V: 18.308 um



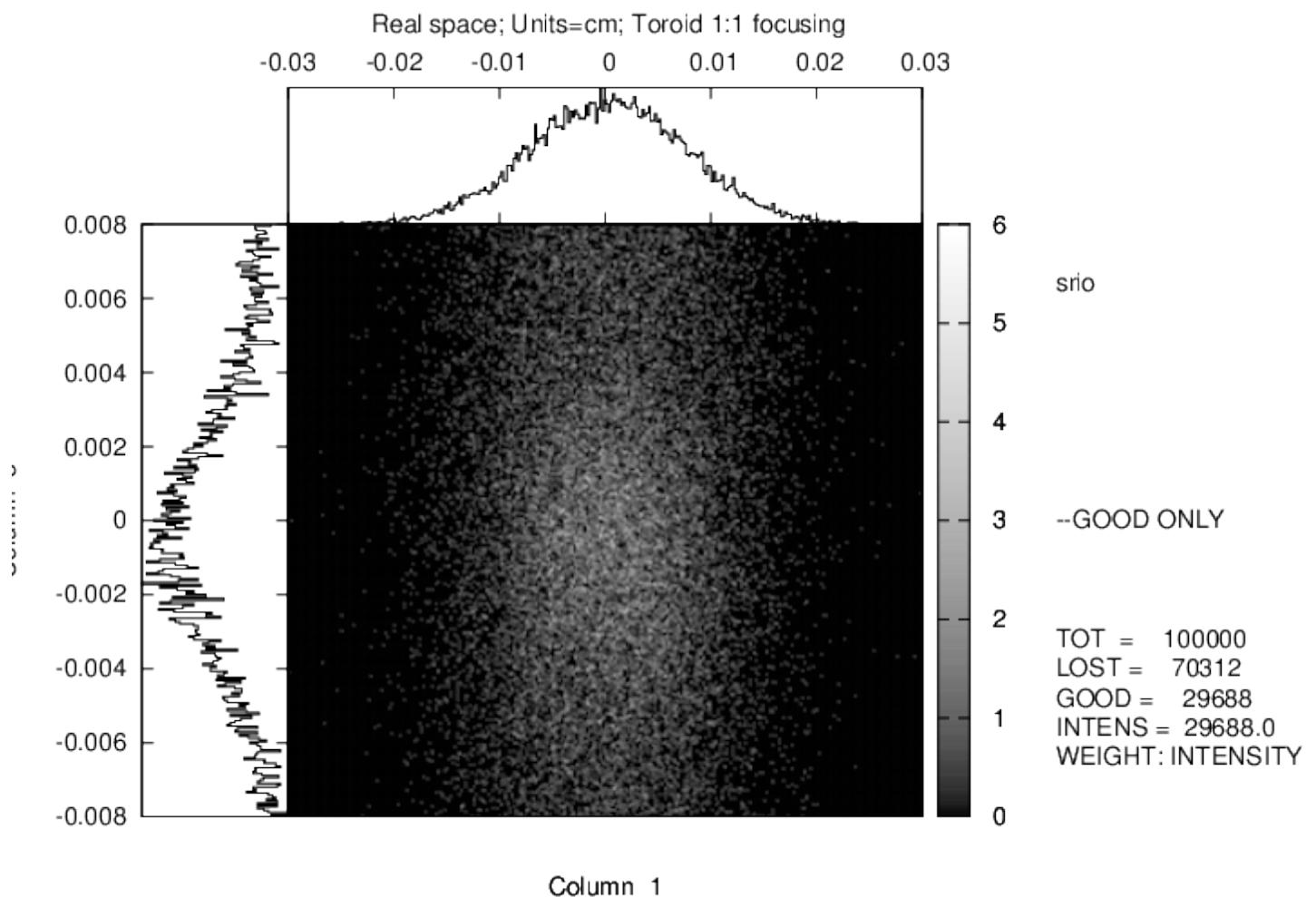
Column 1

0.1.1.4. Toroid 1:1 focusing

FW25M H: 237.209 um V: 159.468 um

FWHM H: 175.415 um V: 127.575 um

FW75M H: 103.654 um V: 50.498 um

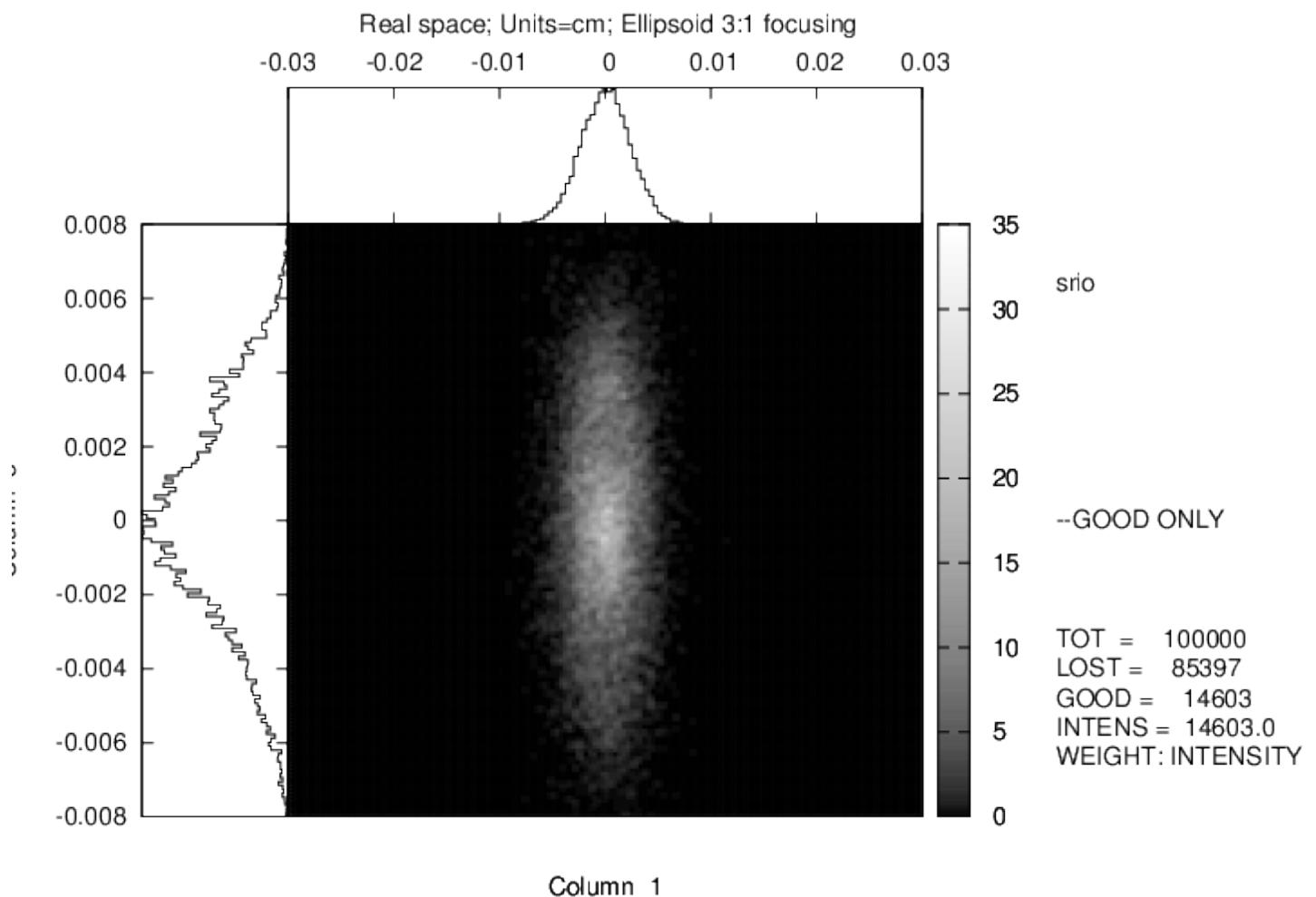


0.1.1.5. Ellipsoid 3:1 focusing

FW25M H: 75.497 um V: 94.305 um

FWHM H: 47.682 um V: 66.755 um

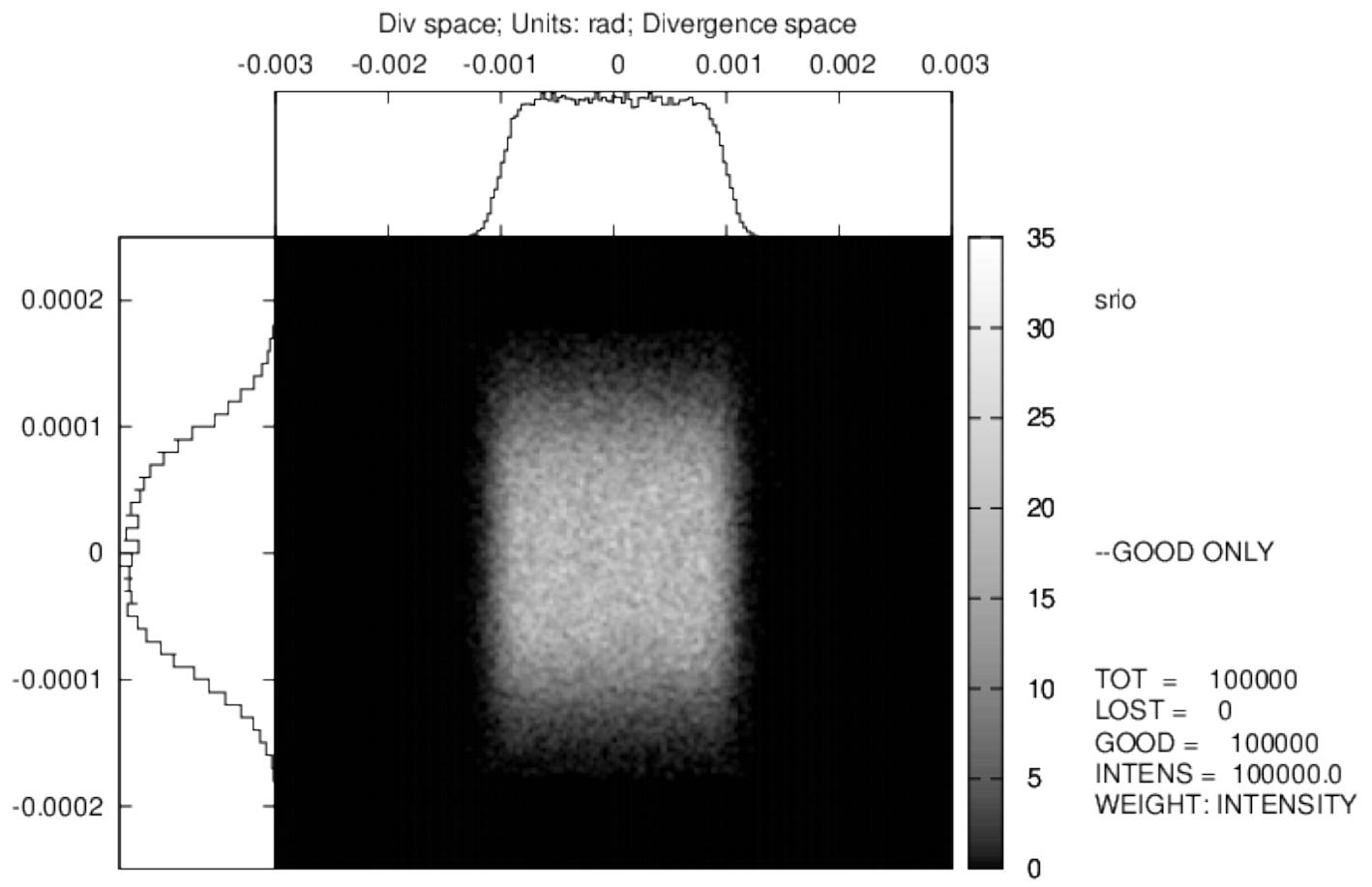
FW75M H: 31.788 um V: 28.609 um



0.1.2. Finite Emittance; magnetic field: BM; E=10 keV

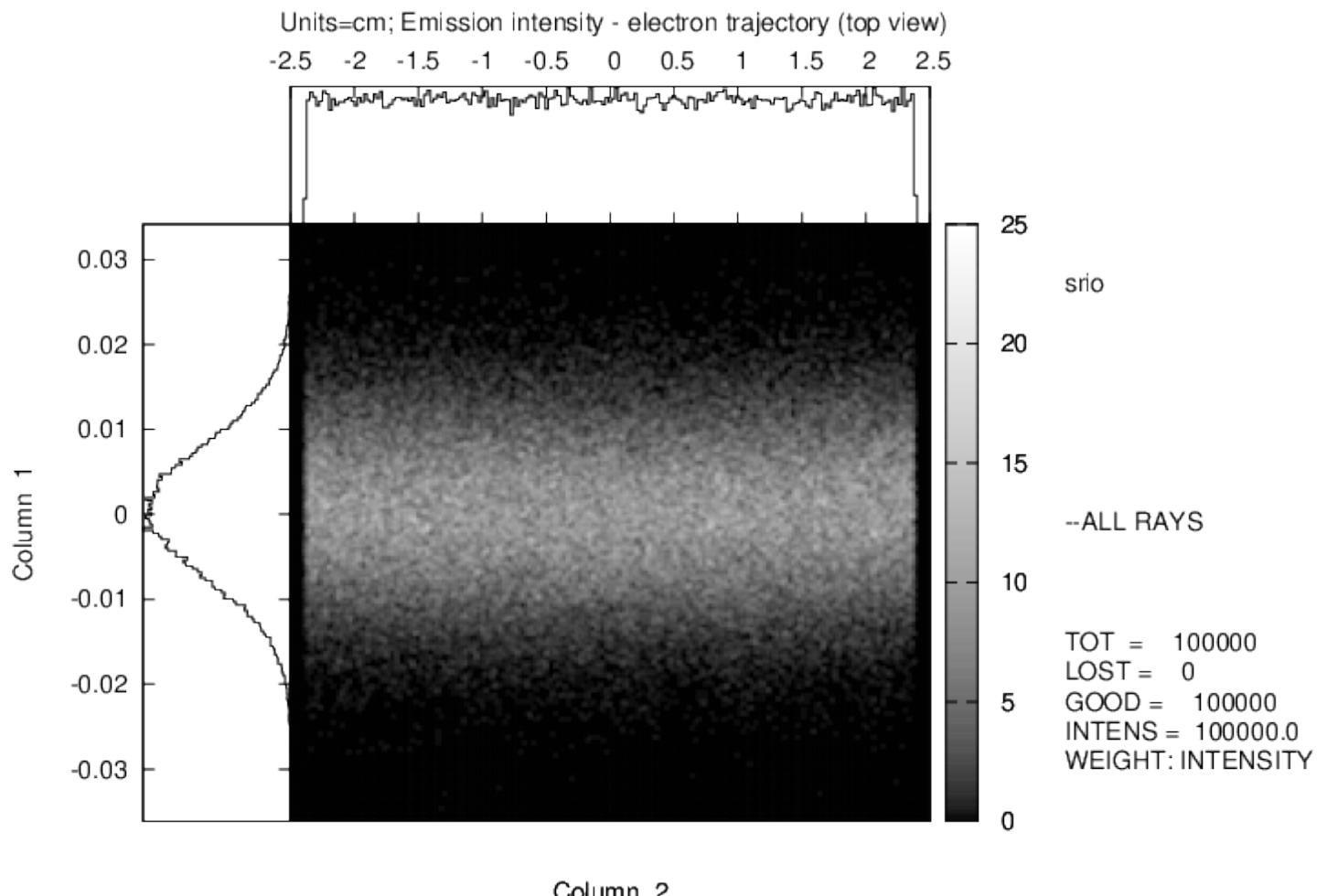
0.1.2.1. Divergence space

FW25M H: 2149.254 urad V: 238.806 urad
 FWHM H: 1970.149 urad V: 189.055 urad
 FW75M H: 1791.045 urad V: 149.254 urad



Column 4

0.1.2.2. Emission intensity - electron trajectory (top view)

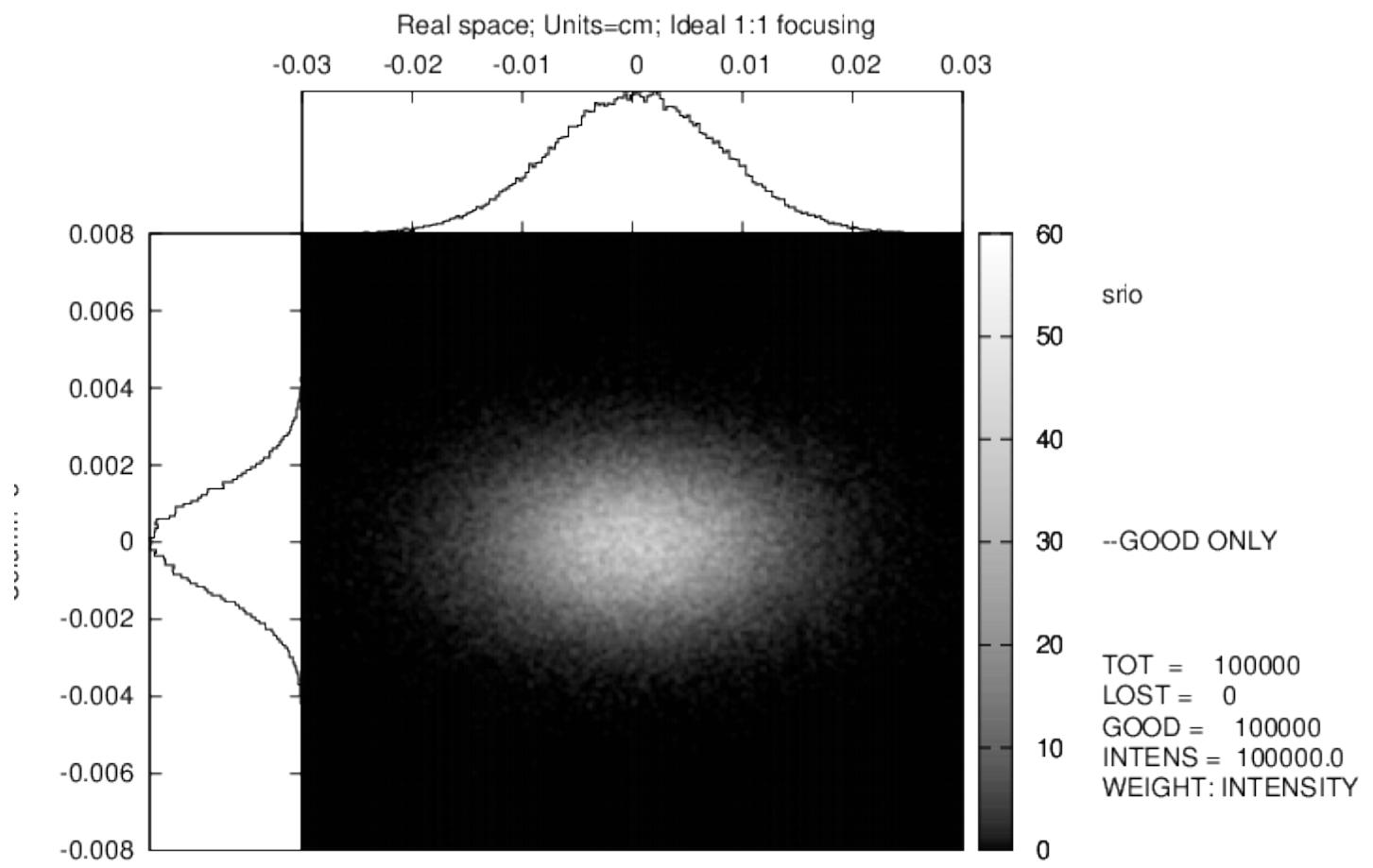


0.1.2.3. Ideal 1:1 focusing

FW25M H: 253.731 um V: 42.189 um

FWHM H: 176.119 um V: 30.249 um

FW75M H: 116.418 um V: 19.104 um



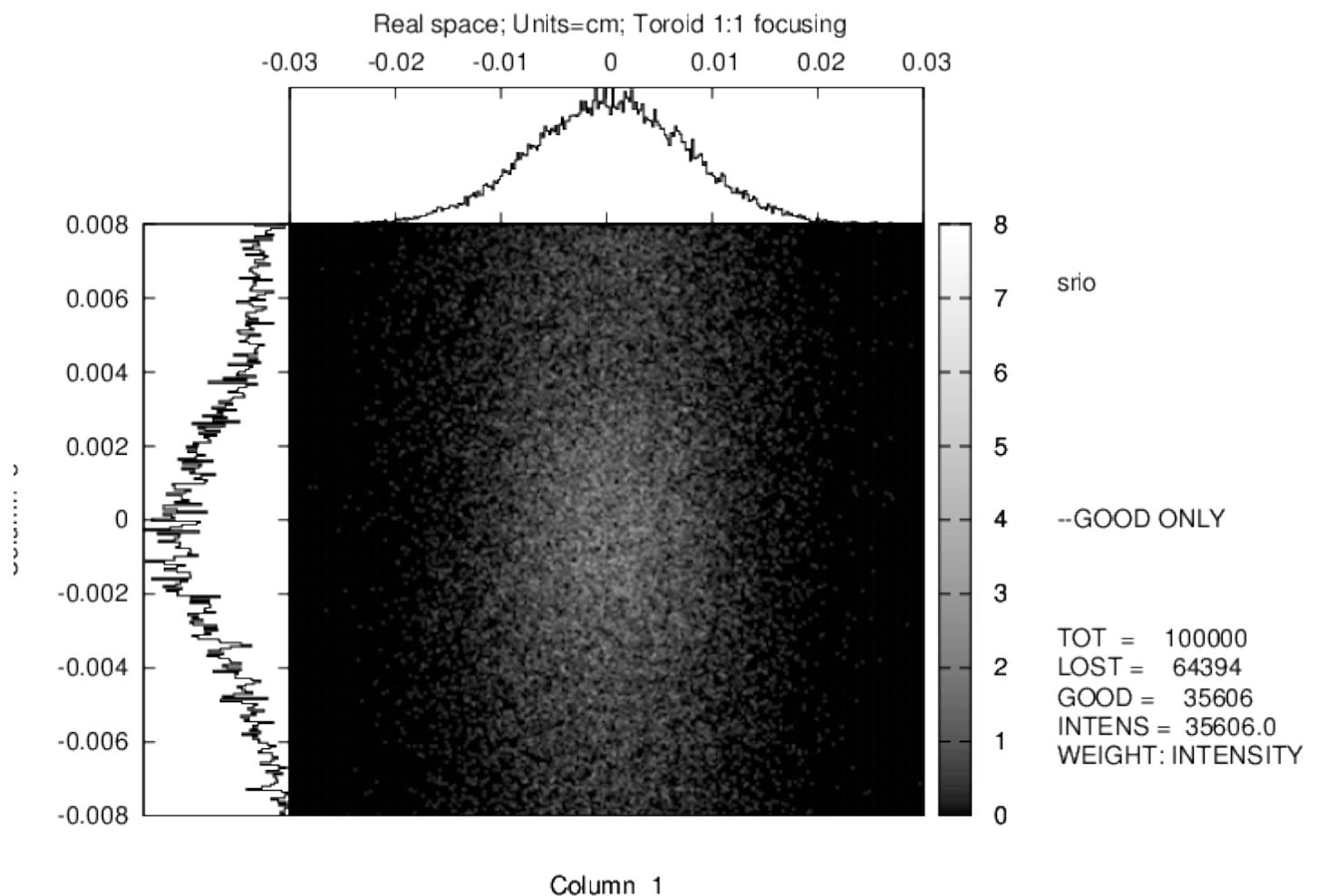
Column 1

0.1.2.4. Toroid 1:1 focusing

FW25M H: 239.203 um V: 159.468 um

FWHM H: 173.422 um V: 107.907 um

FW75M H: 89.701 um V: 47.309 um



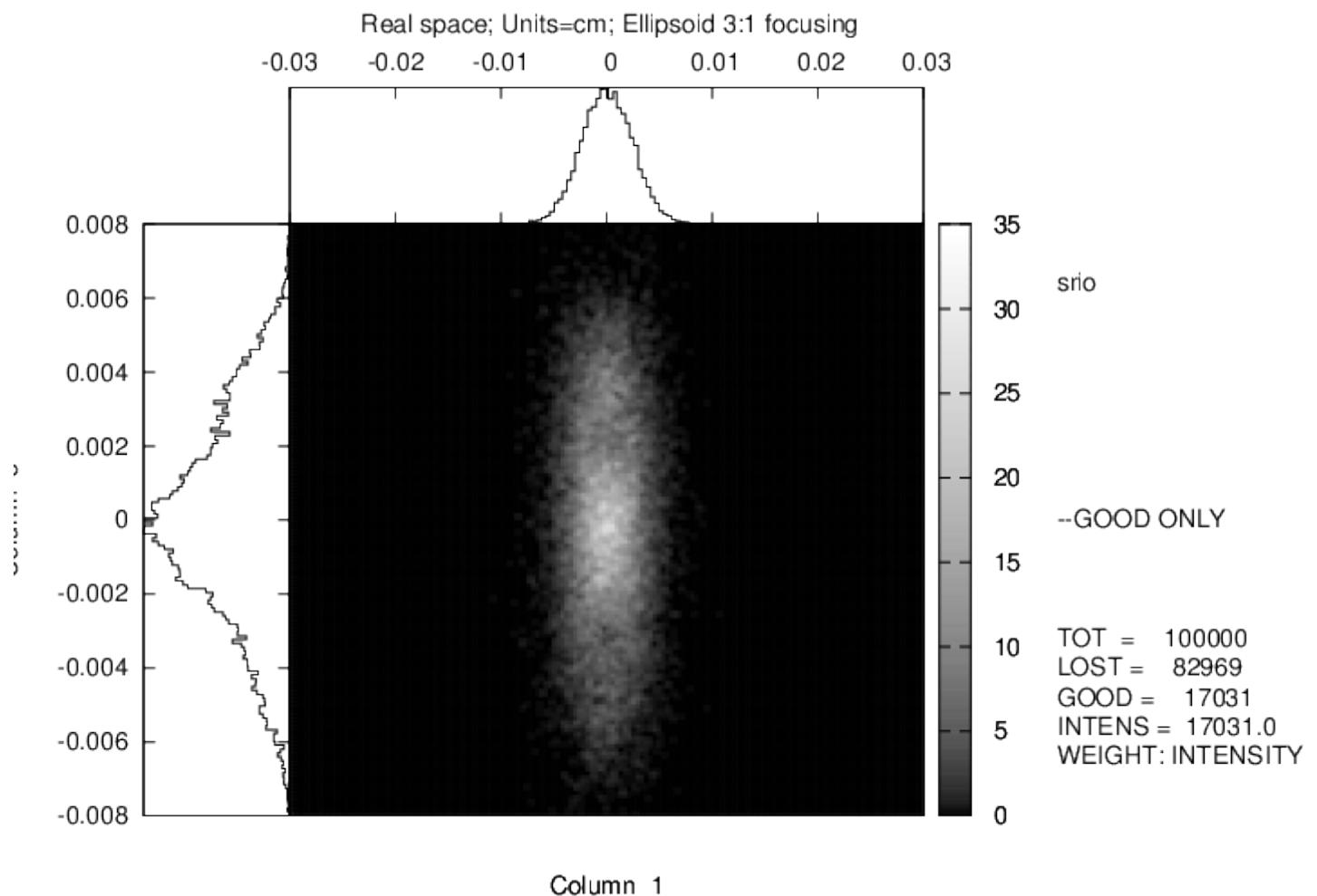
Column 1

0.1.2.5. Ellipsoid 3:1 focusing

FW25M H: 75.497 um V: 91.126 um

FWHM H: 55.629 um V: 56.159 um

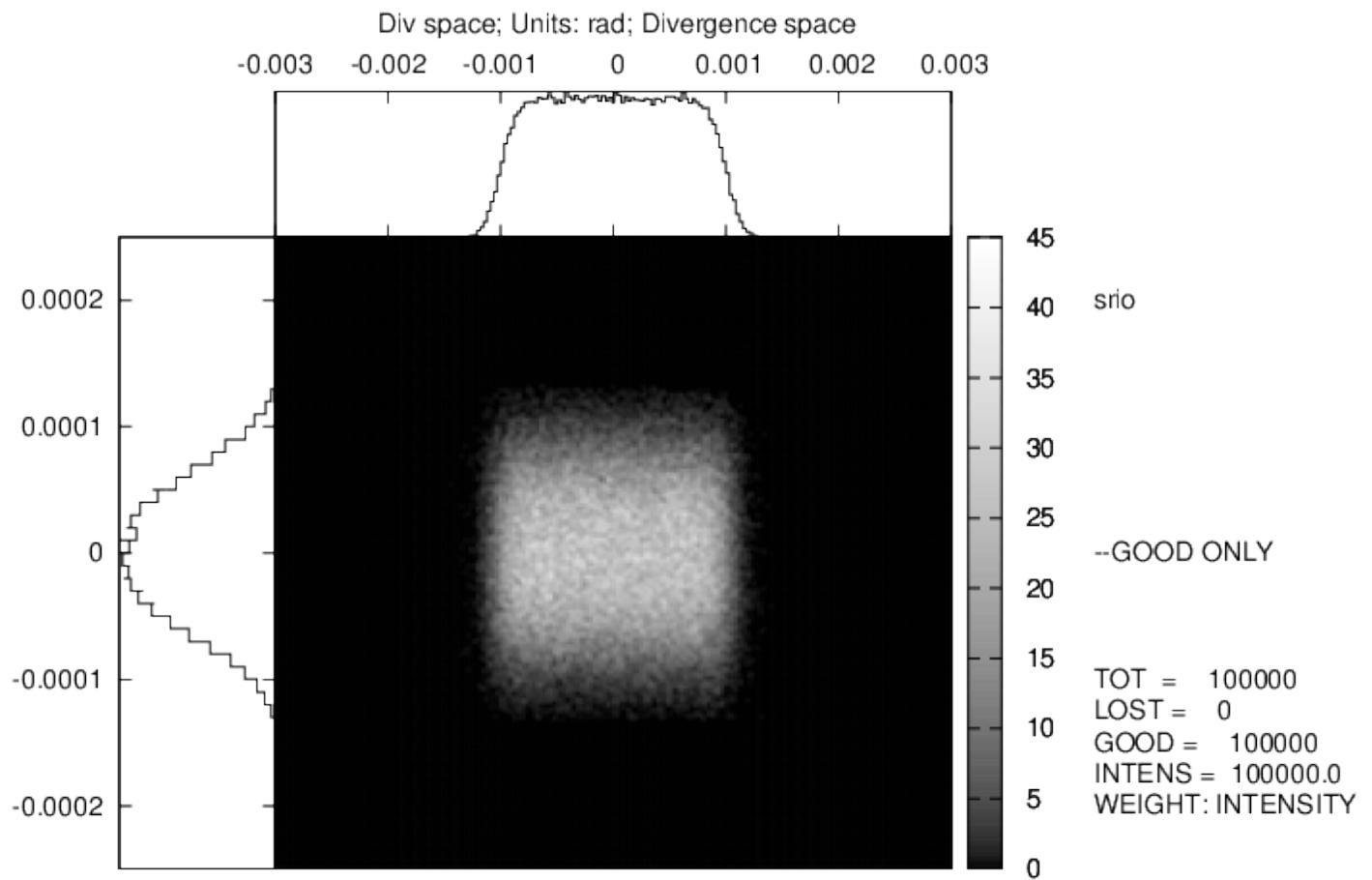
FW75M H: 31.788 um V: 24.371 um



0.1.3. Finite Emittance; magnetic field: BM; E=20 keV

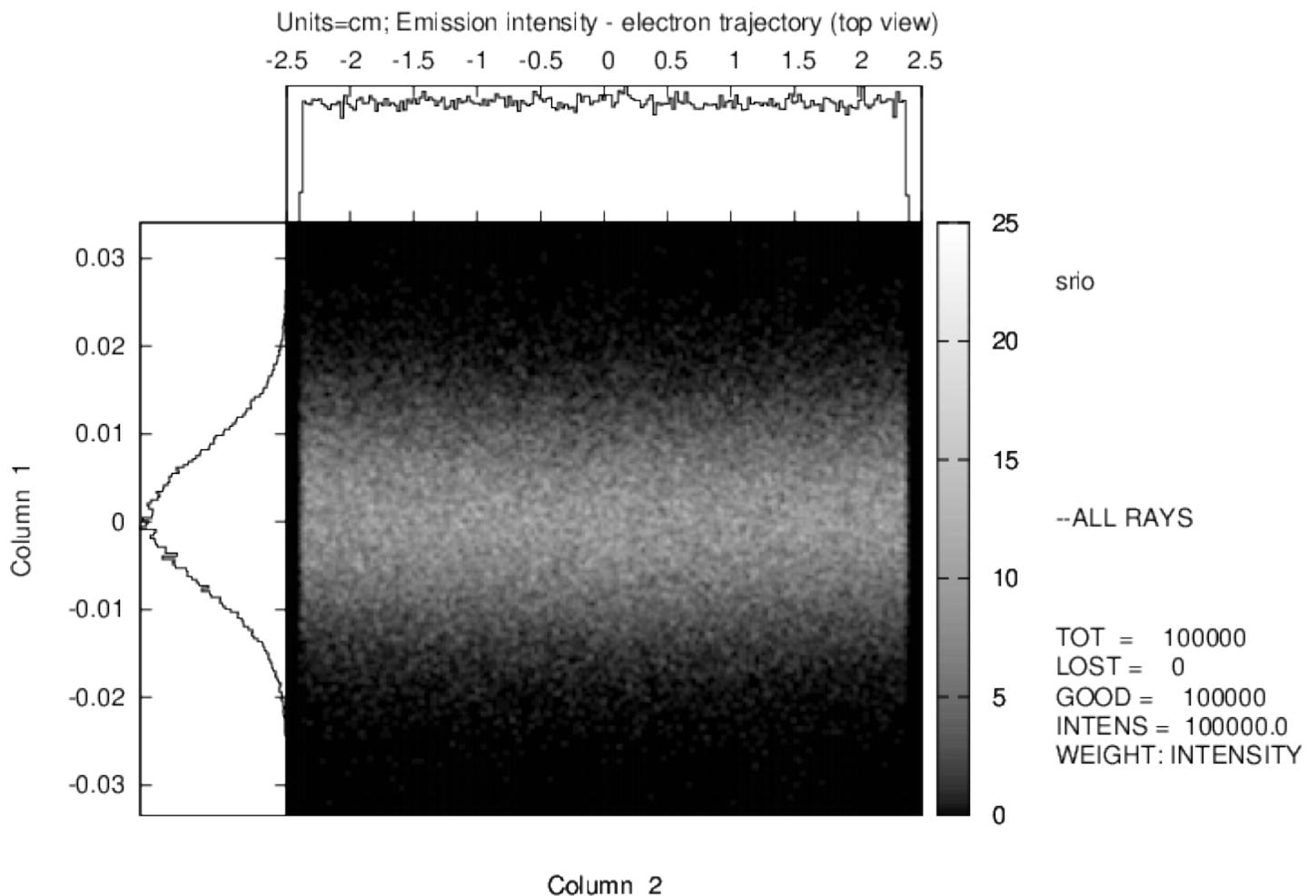
0.1.3.1. Divergence space

FW25M H: 2119.403 urad V: 174.129 urad
 FWHM H: 1970.149 urad V: 131.841 urad
 FW75M H: 1791.045 urad V: 92.040 urad



Column 4

0.1.3.2. Emission intensity - electron trajectory (top view)

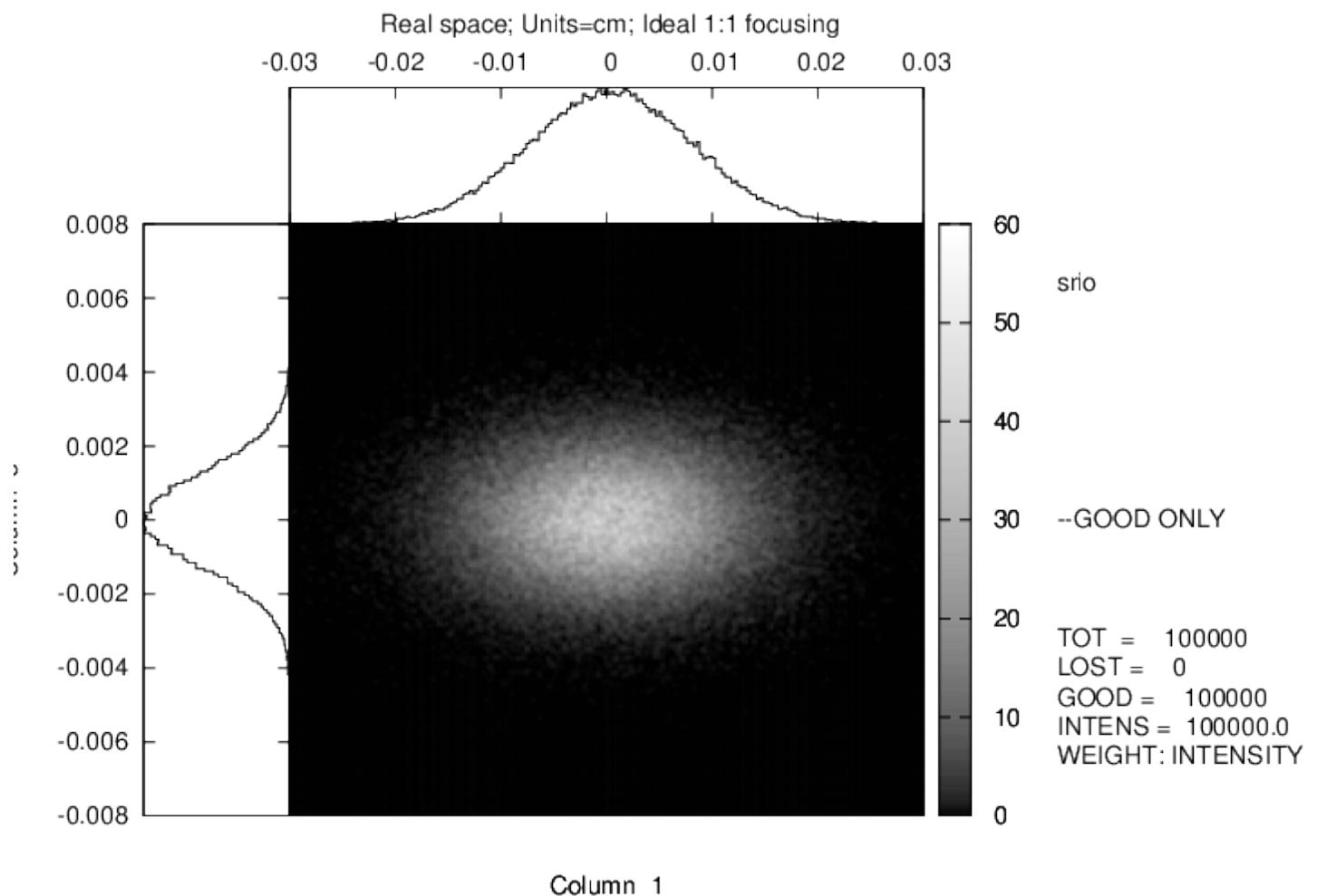


0.1.3.3. Ideal 1:1 focusing

FW25M H: 250.746 um V: 42.189 um

FWHM H: 176.119 um V: 29.453 um

FW75M H: 110.448 um V: 18.308 um



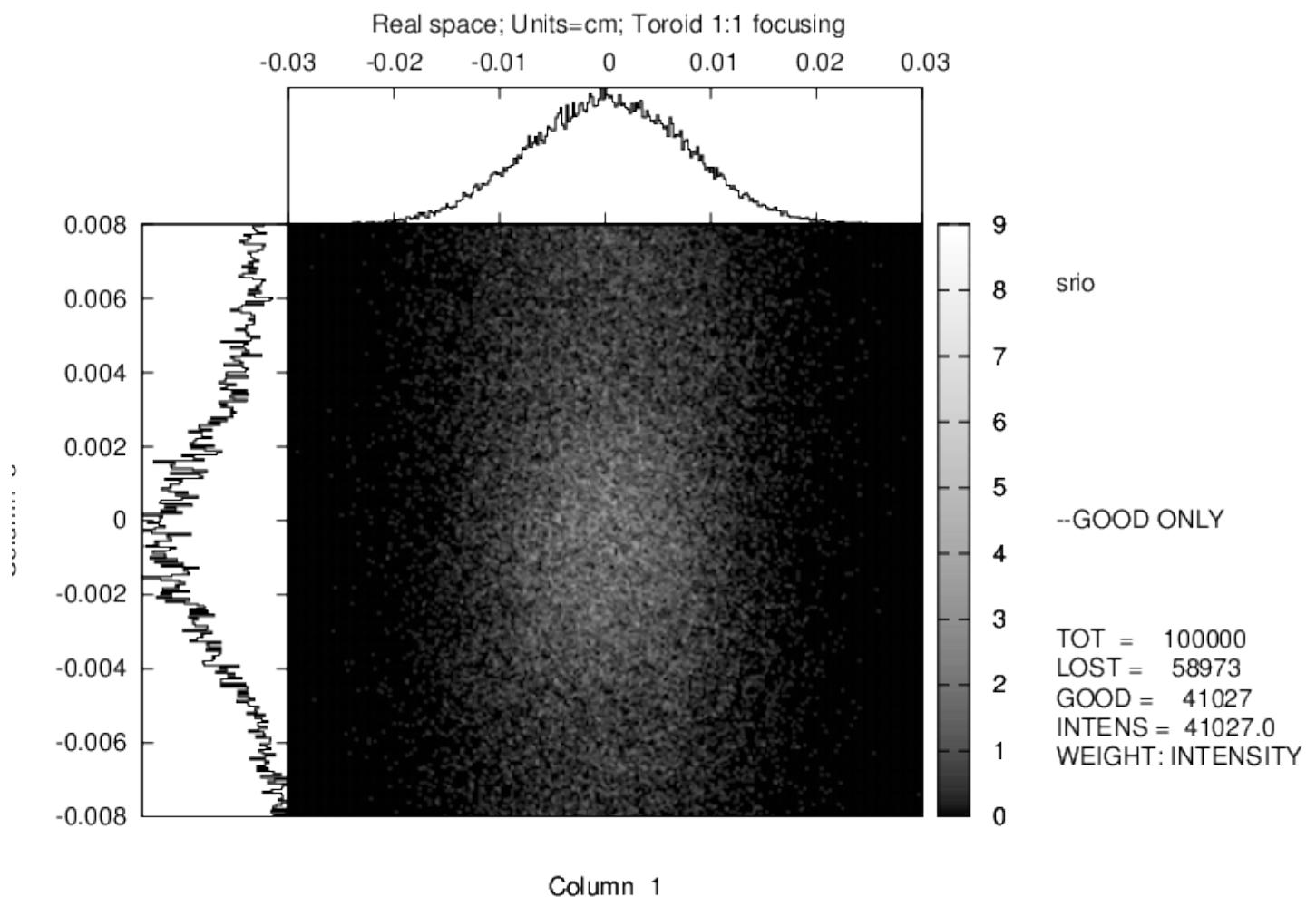
Column 1

0.1.3.4. Toroid 1:1 focusing

FW25M H: 247.176 um V: 159.468 um

FWHM H: 173.422 um V: 101.528 um

FW75M H: 107.641 um V: 53.688 um



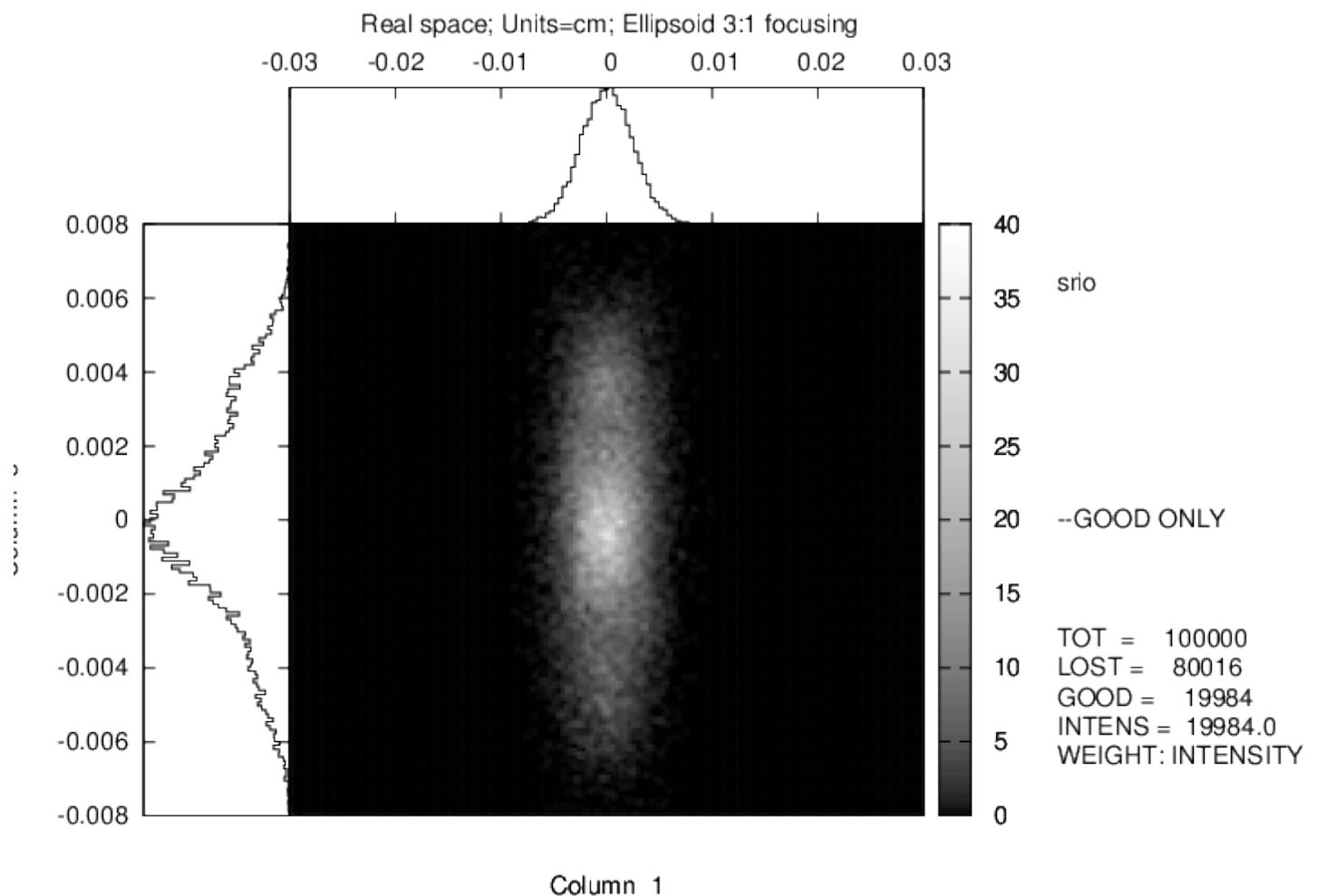
Column 1

0.1.3.5. Ellipsoid 3:1 focusing

FW25M H: 79.470 um V: 90.066 um

FWHM H: 55.629 um V: 44.503 um

FW75M H: 31.788 um V: 21.192 um

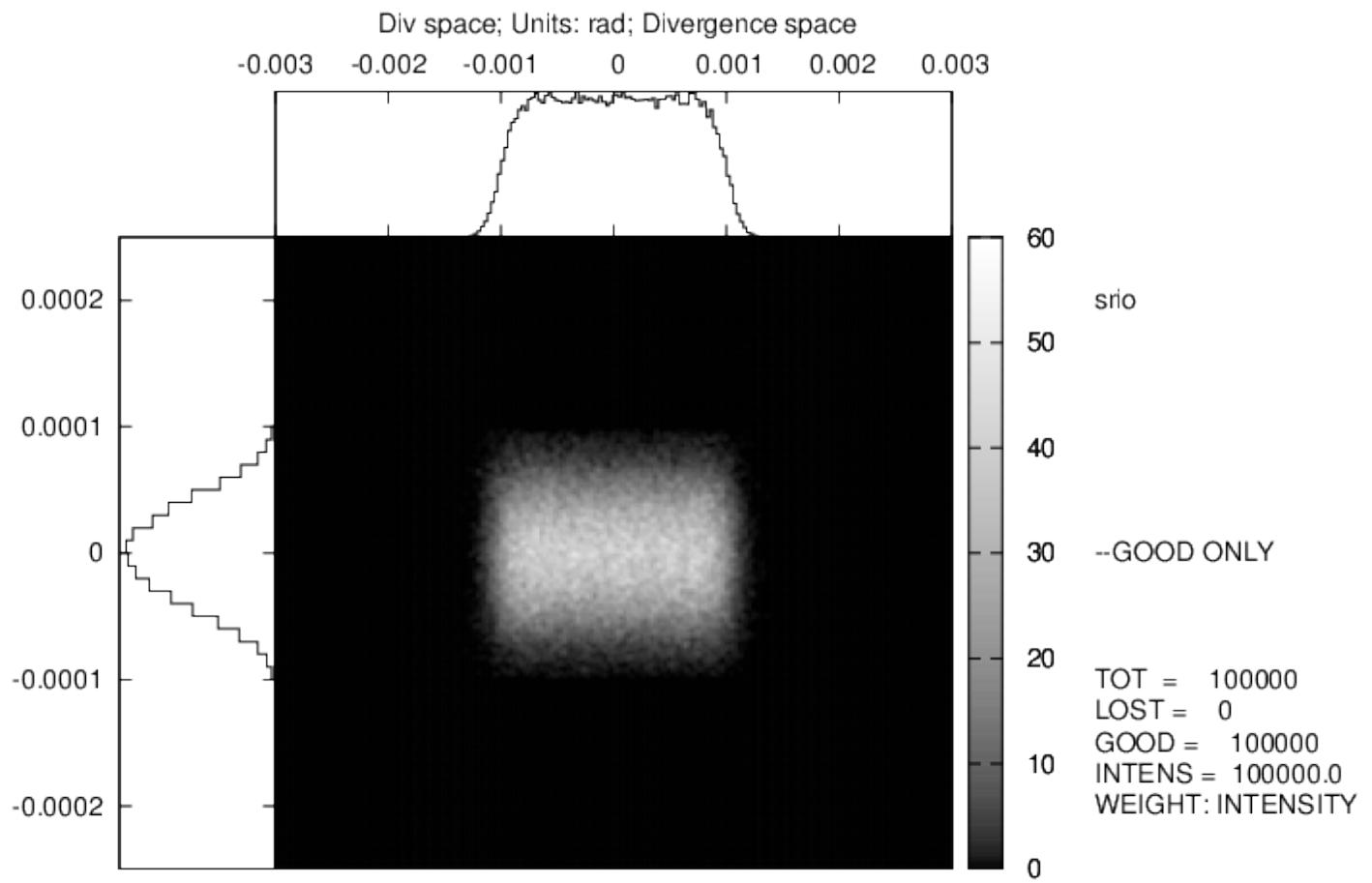


0.1.4. Finite Emittance; magnetic field: BM; E=40 keV

0.1.4.1. Divergence space

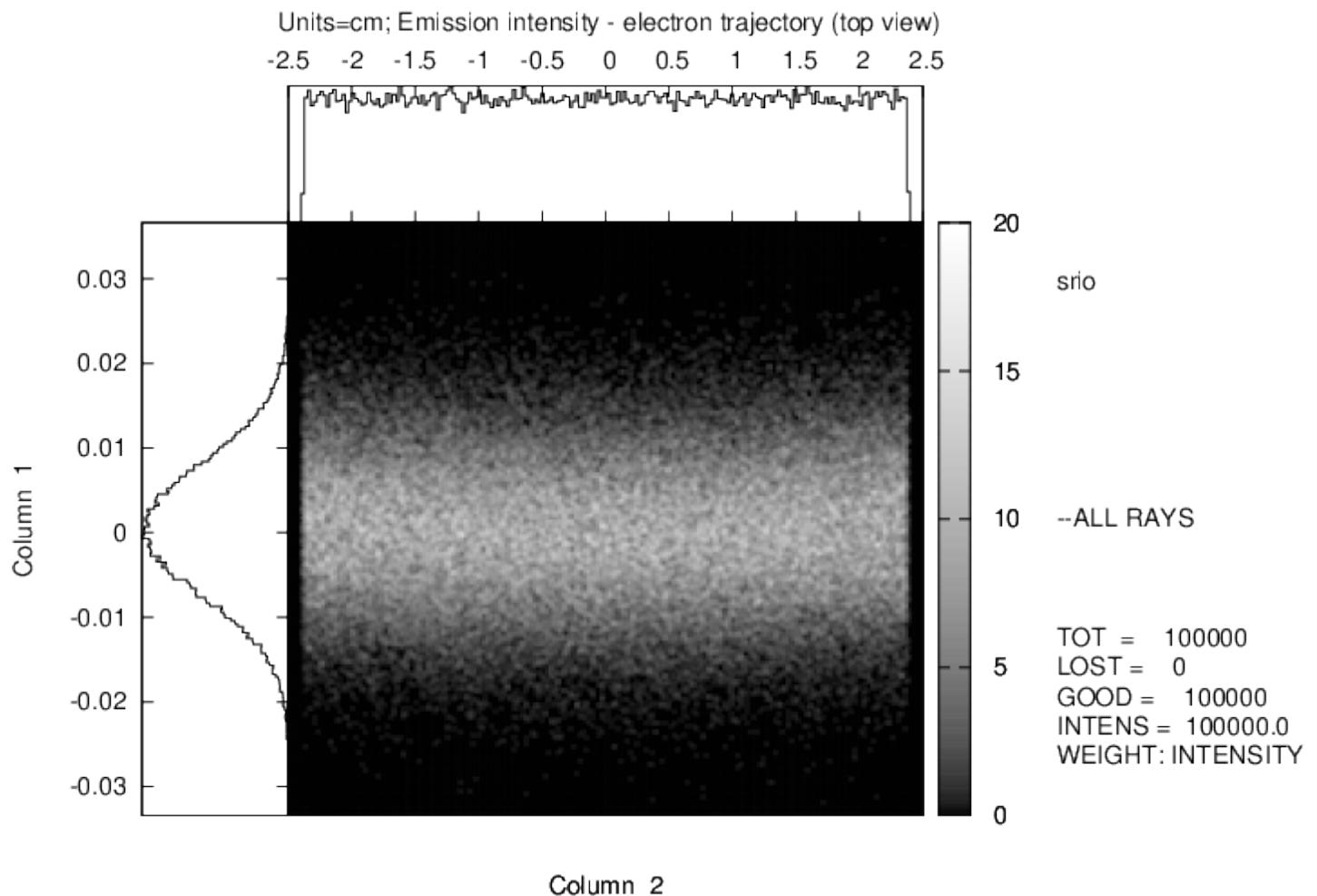
```

FW25M H: 2089.552 urad V: 124.378 urad
FWHM H: 1970.149 urad V: 89.552 urad
FW75M H: 1791.045 urad V: 57.214 urad
  
```



Column 4

0.1.4.2. Emission intensity - electron trajectory (top view)

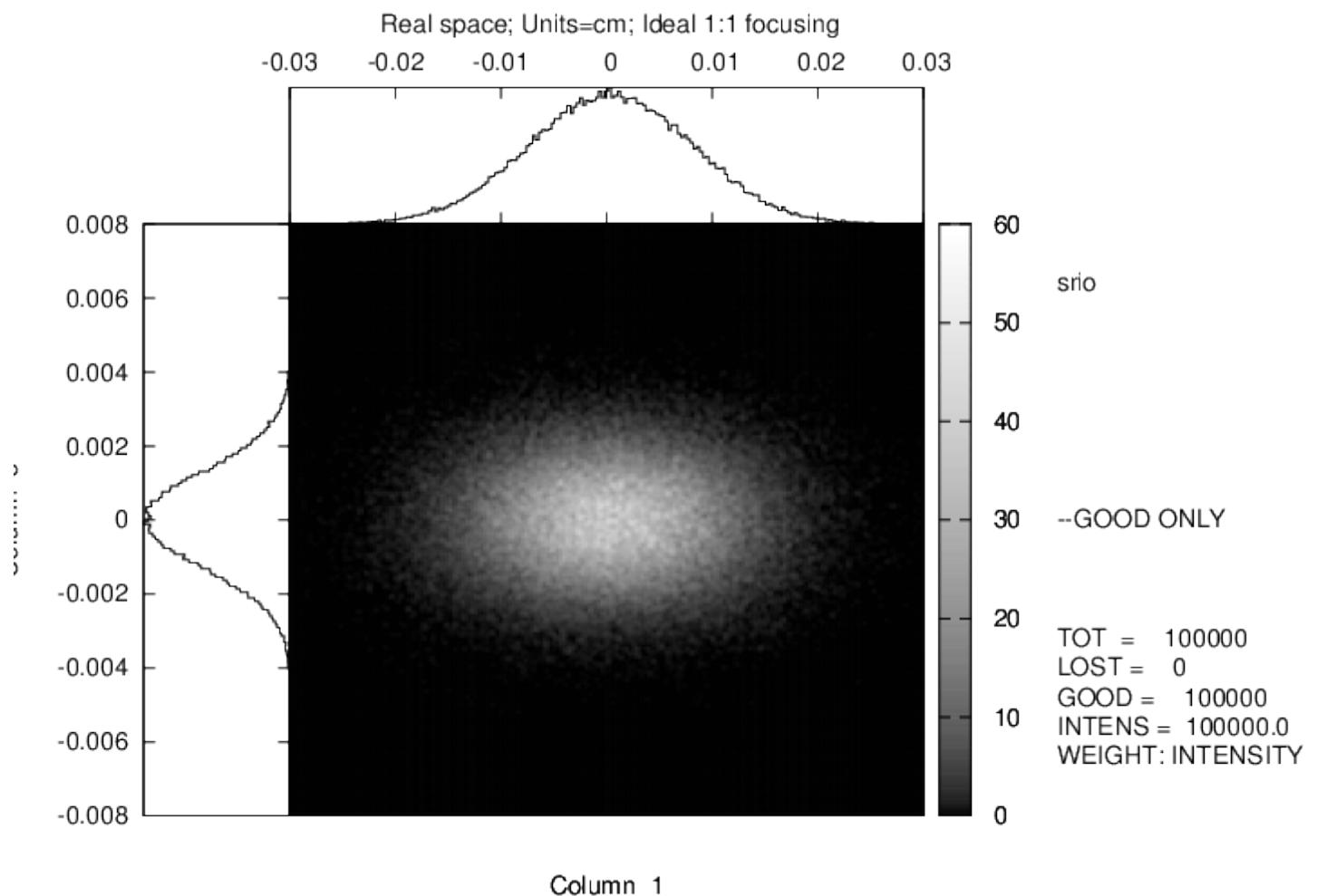


0.1.4.3. Ideal 1:1 focusing

FW25M H: 250.746 um V: 42.189 um

FWHM H: 170.149 um V: 29.453 um

FW75M H: 104.478 um V: 18.308 um



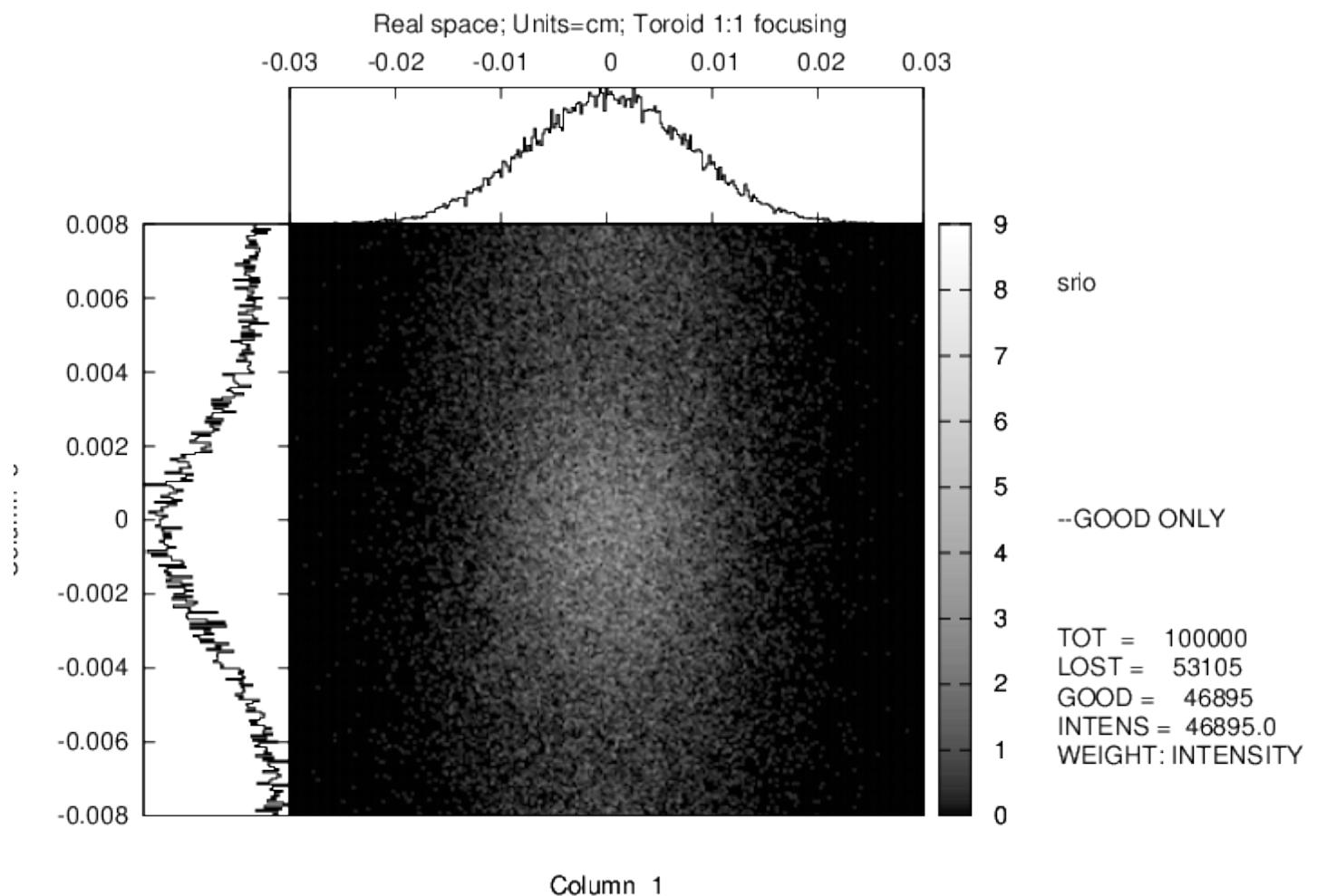
Column 1

0.1.4.4. Toroid 1:1 focusing

FW25M H: 257.143 um V: 159.468 um

FWHM H: 183.389 um V: 107.907 um

FW75M H: 101.661 um V: 44.120 um



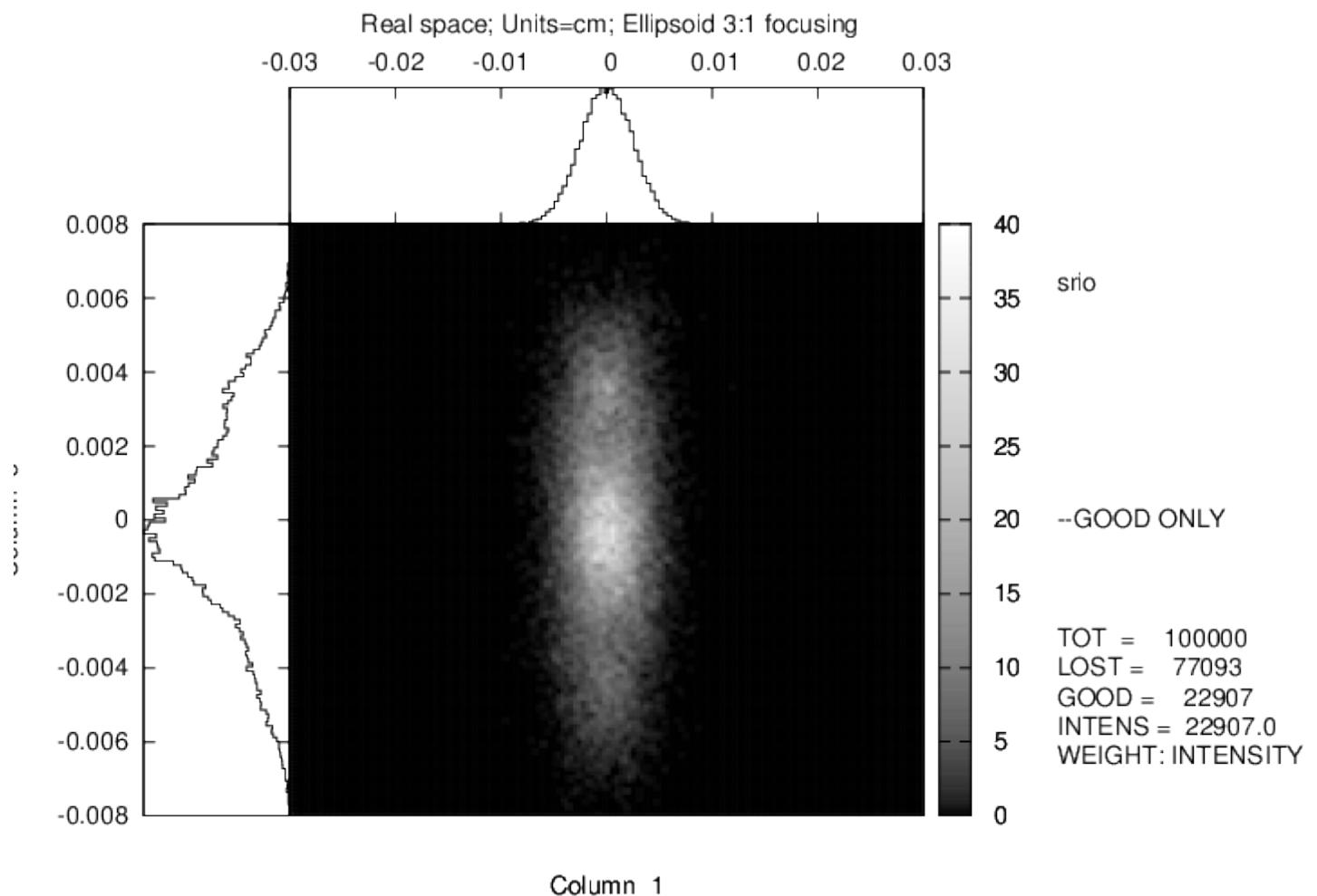
Column 1

0.1.4.5. Ellipsoid 3:1 focusing

FW25M H: 79.470 um V: 84.768 um

FWHM H: 55.629 um V: 41.325 um

FW75M H: 35.762 um V: 18.013 um



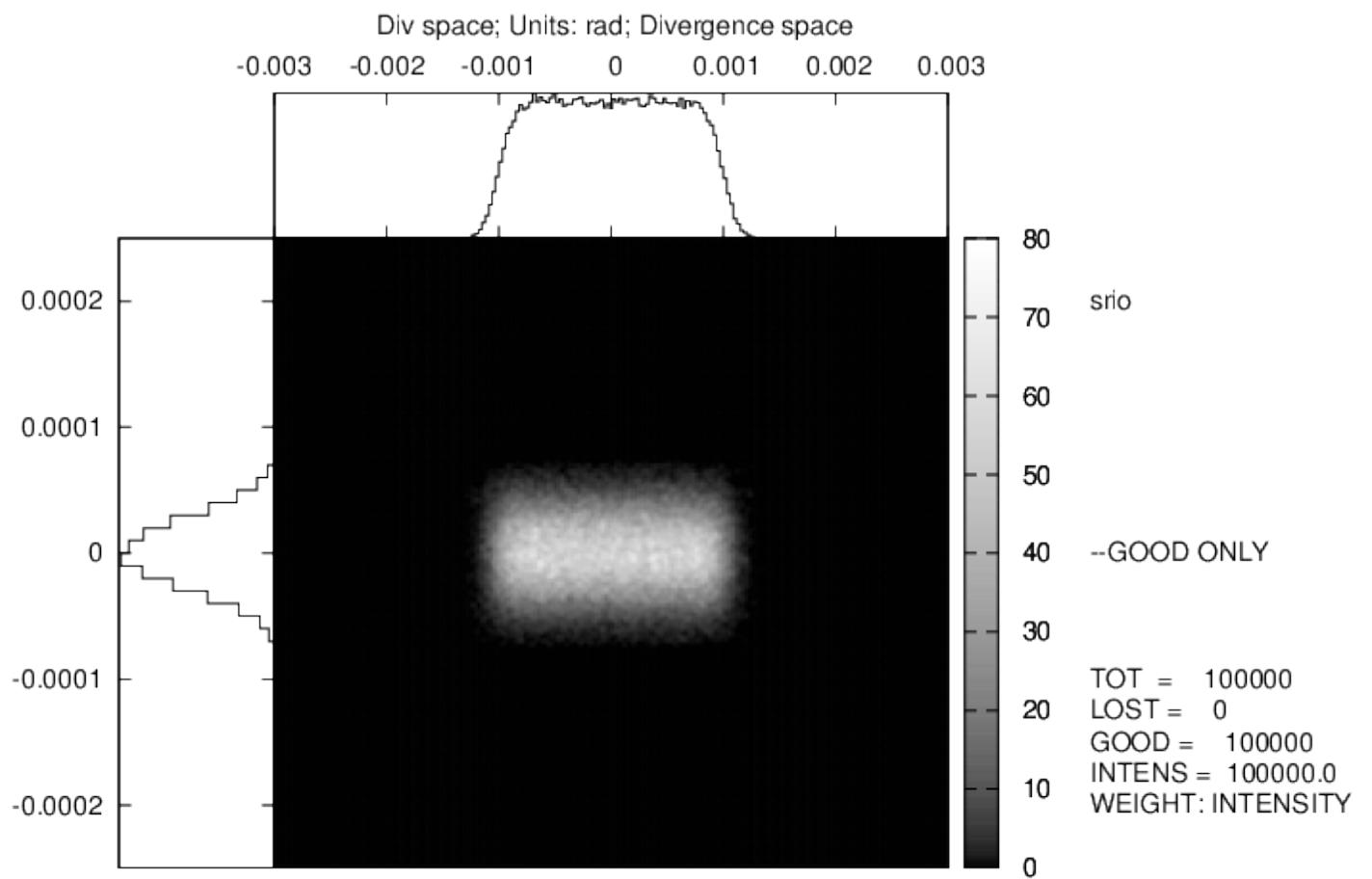
Column 1

0.1.5. Finite Emittance; magnetic field: BM; E=80 keV

0.1.5.1. Divergence space

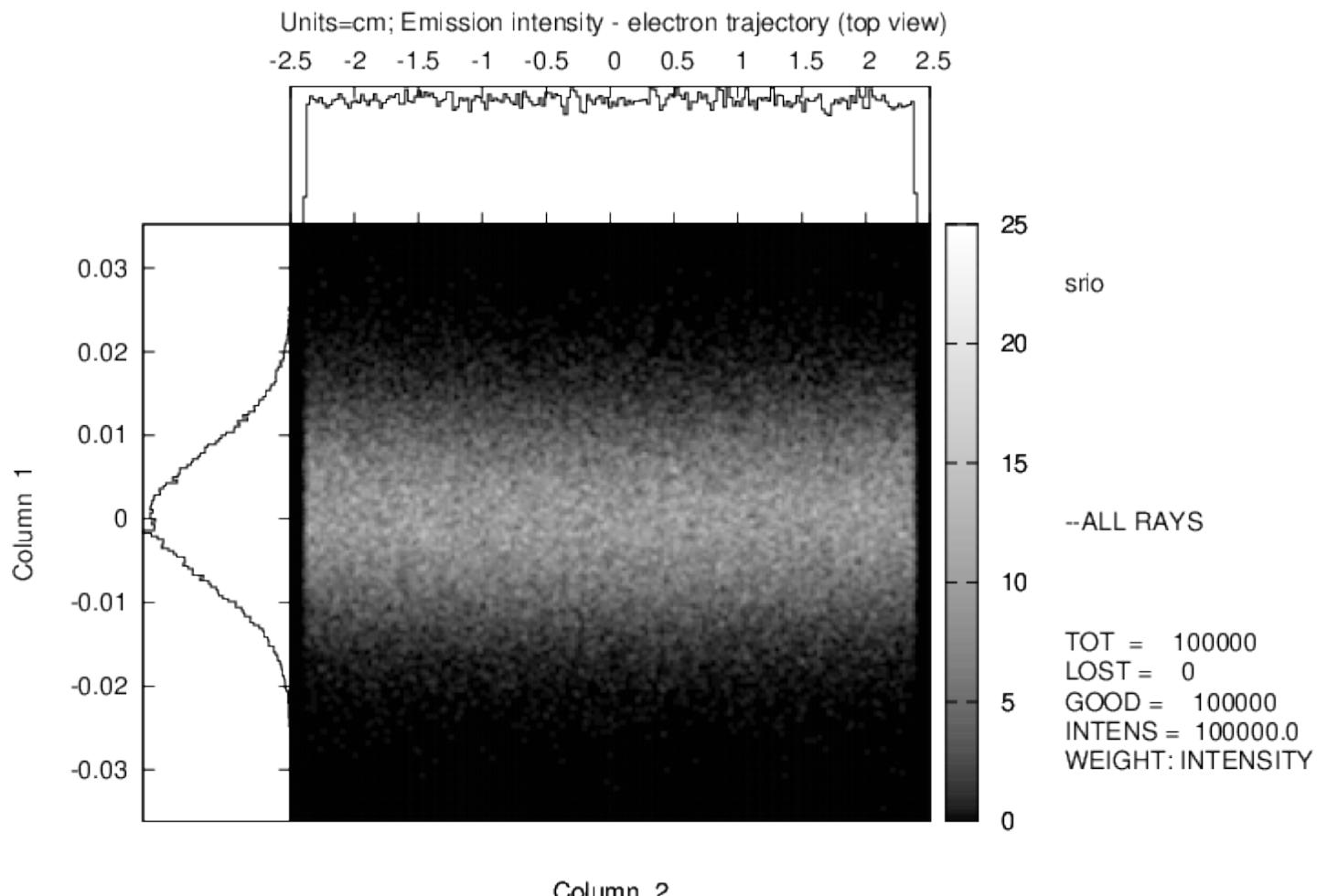
```

FW25M H: 2089.552 urad V: 84.577 urad
FWHM H: 1940.299 urad V: 59.701 urad
FW75M H: 1791.045 urad V: 39.801 urad
  
```



Column 4

0.1.5.2. Emission intensity - electron trajectory (top view)

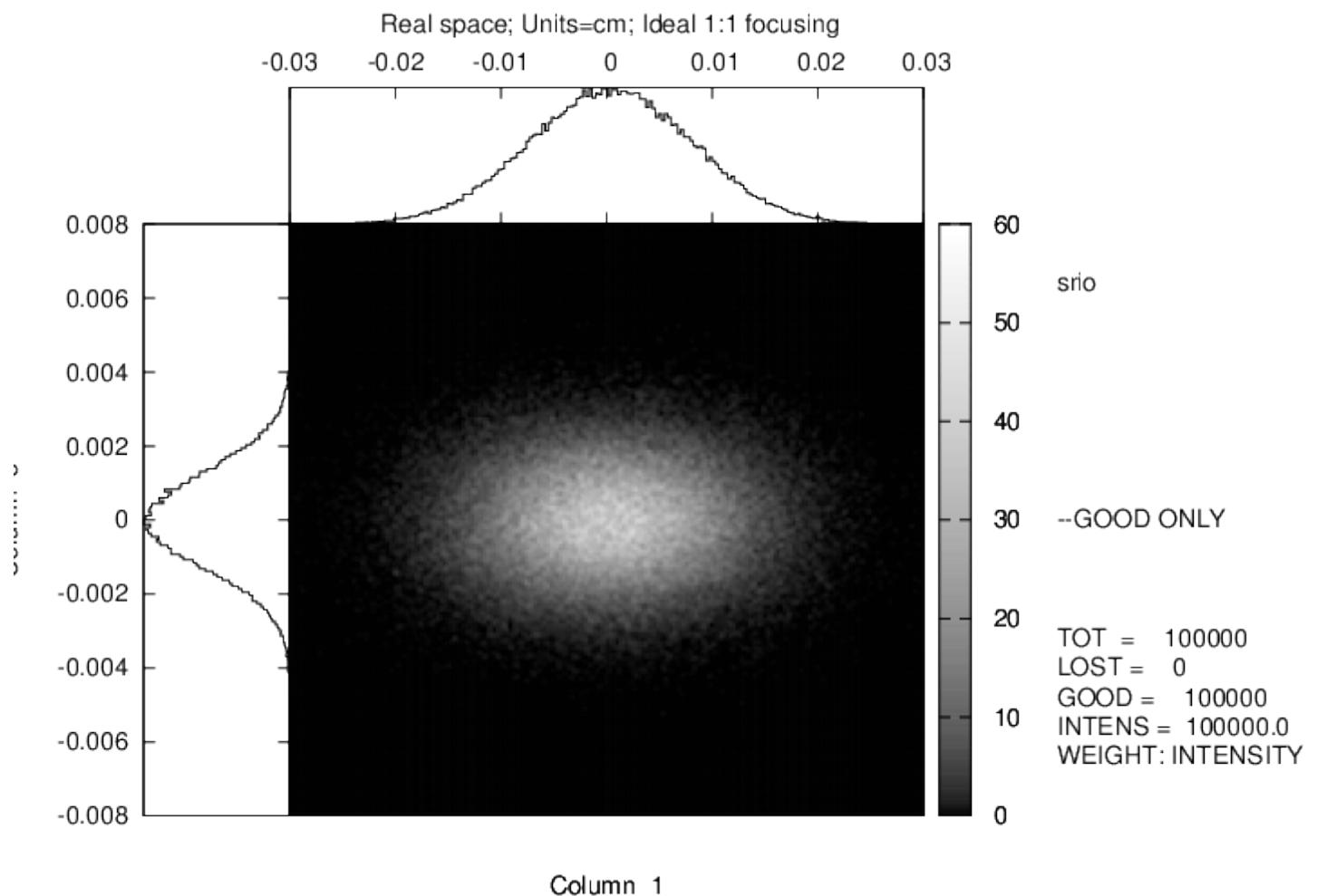


0.1.5.3. Ideal 1:1 focusing

FW25M H: 256.716 um V: 42.189 um

FWHM H: 176.119 um V: 28.657 um

FW75M H: 110.448 um V: 18.308 um

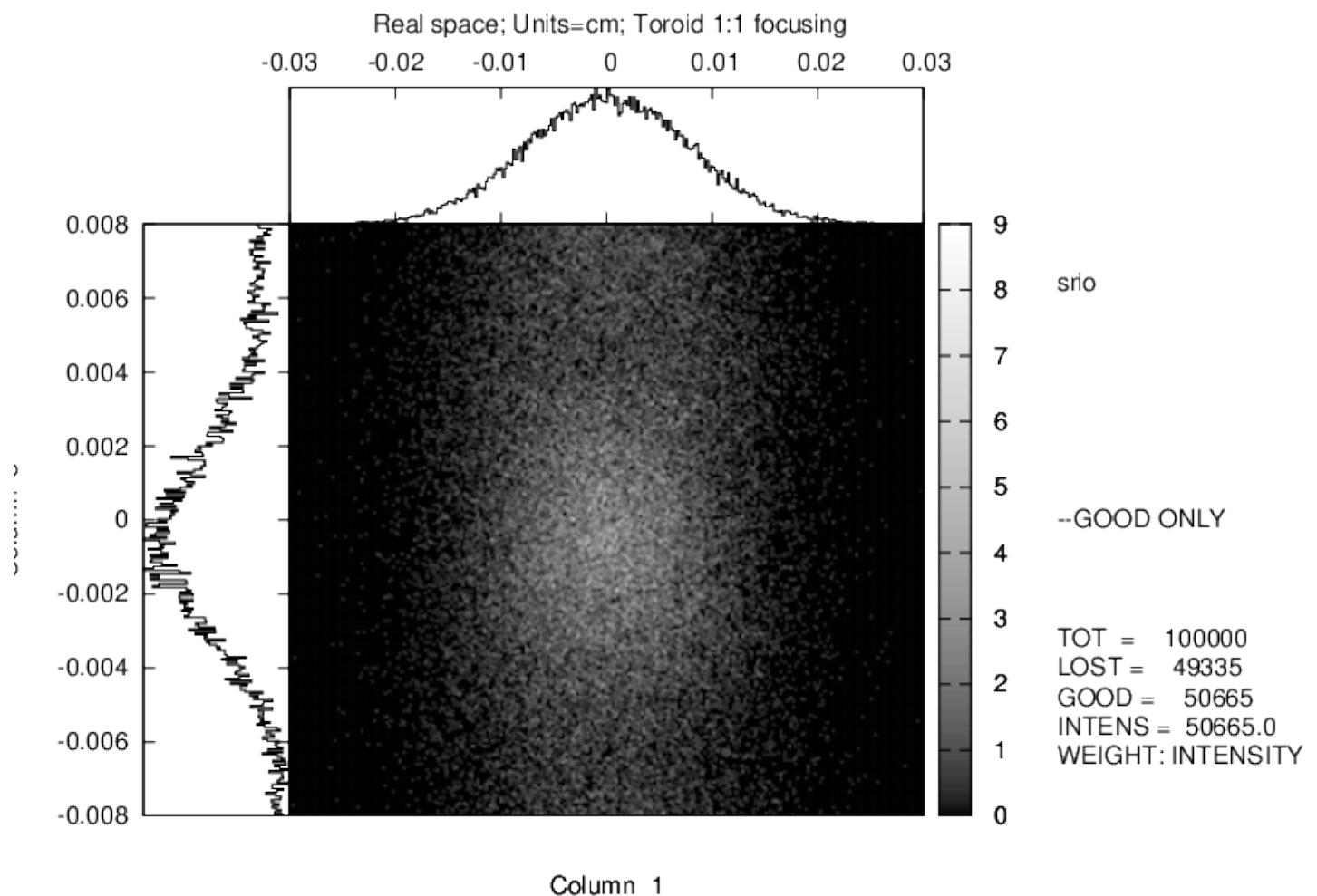


0.1.5.4. Toroid 1:1 focusing

FW25M H: 255.150 um V: 159.468 um

FWHM H: 177.409 um V: 82.392 um

FW75M H: 111.628 um V: 46.777 um

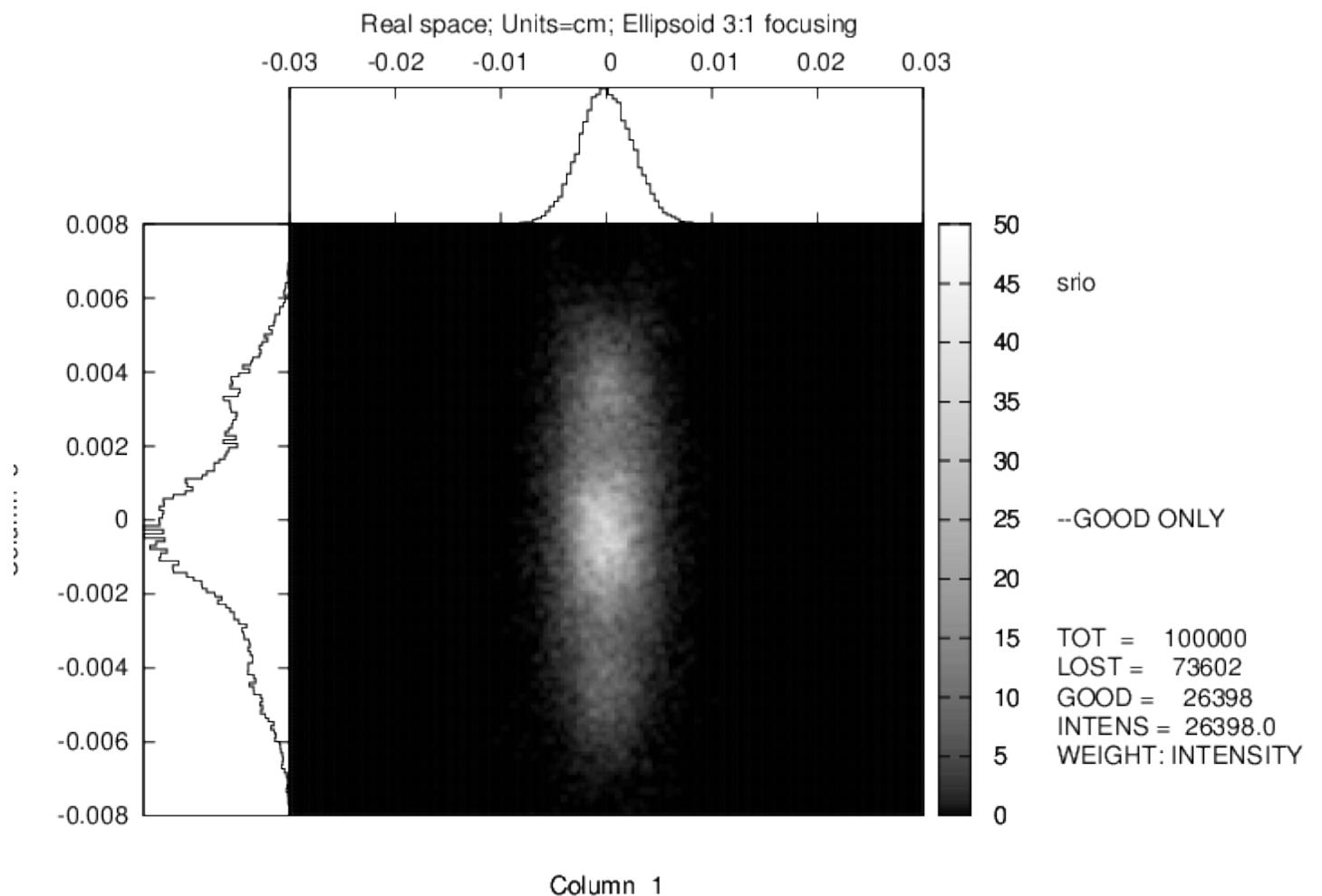


0.1.5.5. Ellipsoid 3:1 focusing

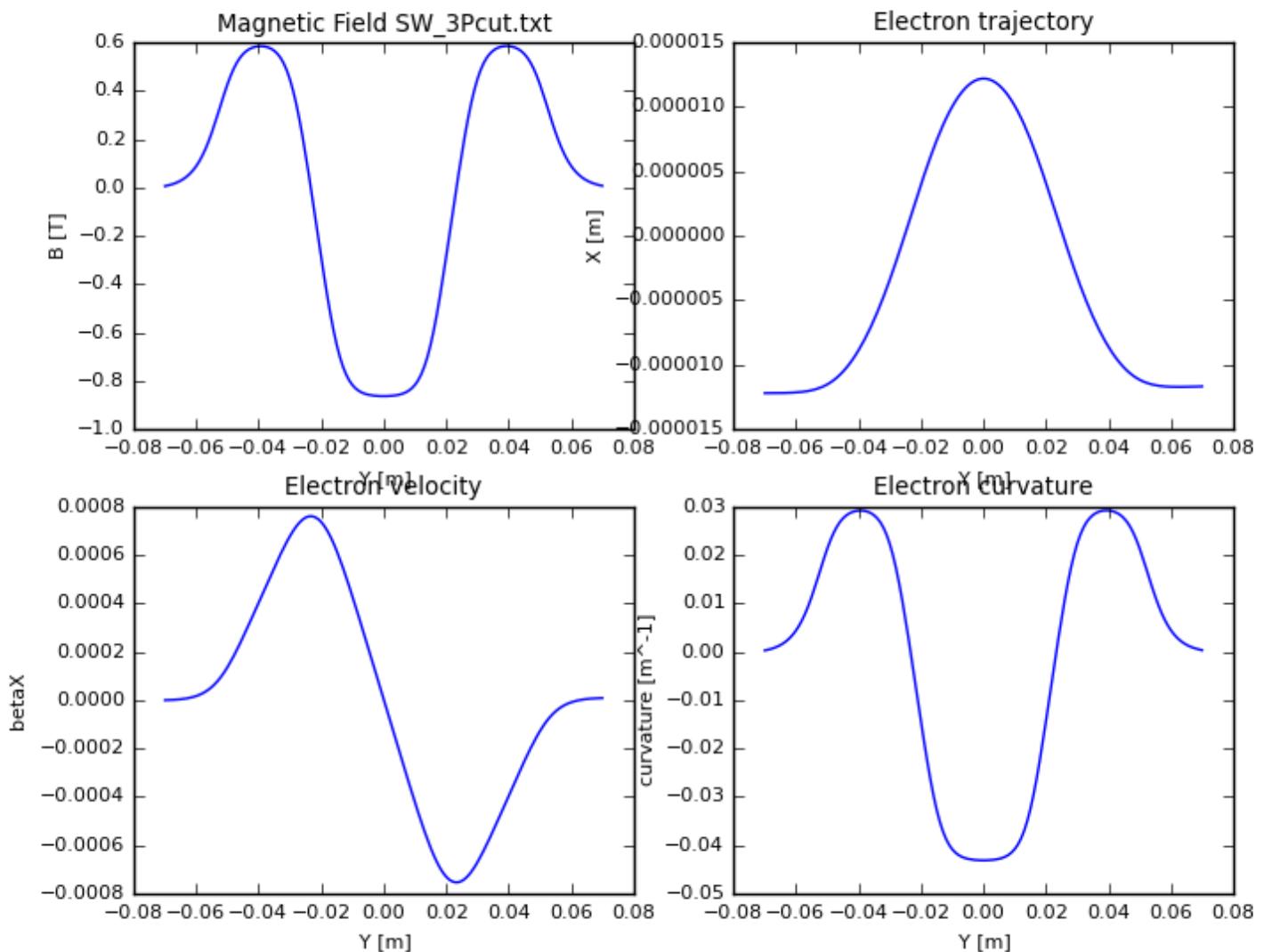
FW25M H: 79.470 um V: 87.947 um

FWHM H: 55.629 um V: 34.967 um

FW75M H: 31.788 um V: 20.132 um



0.2. Finite Emittance; magnetic field: 3Pcut



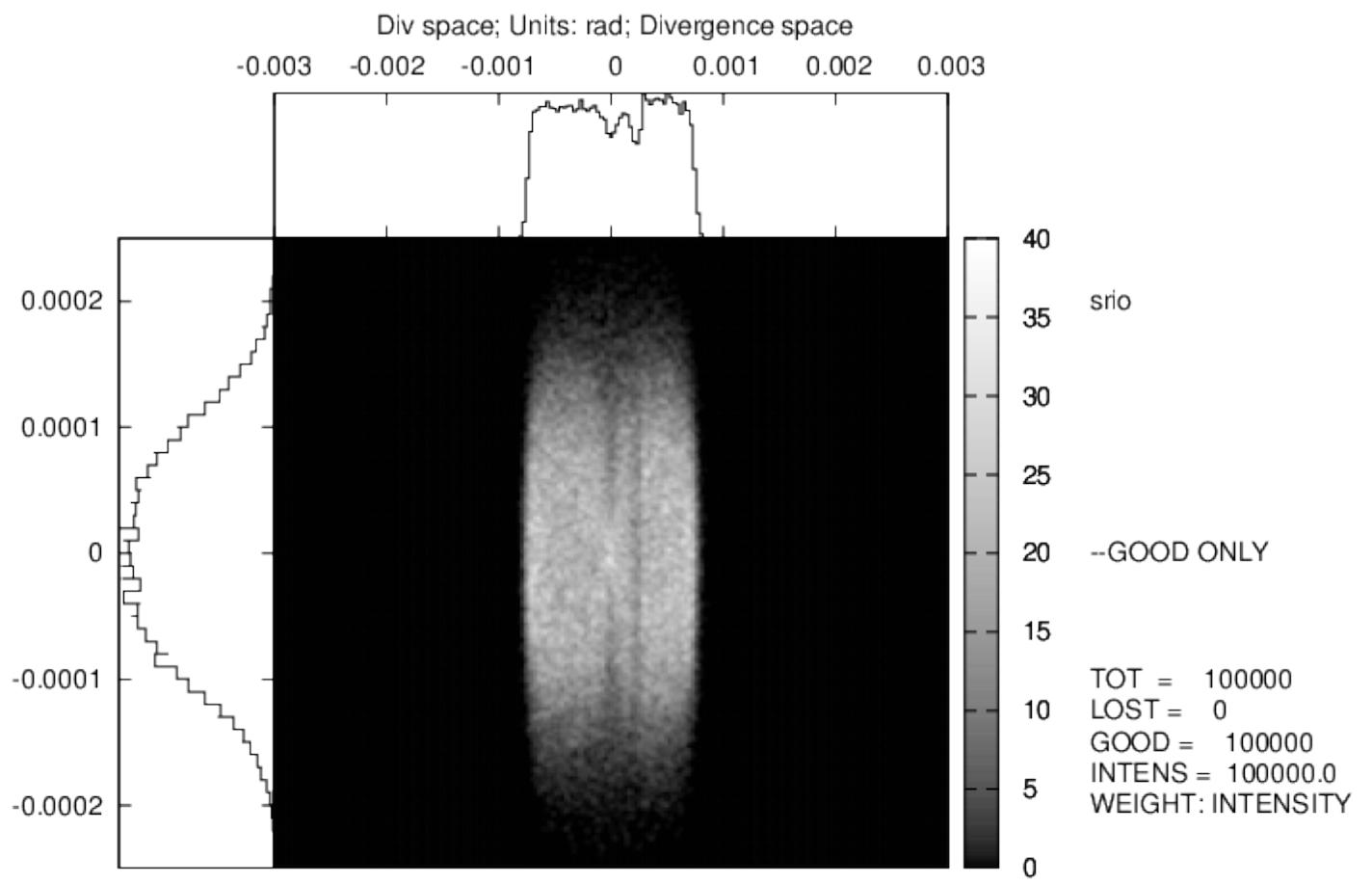
0.2.1. Finite Emittance; magnetic field: 3Pcut; E=5 keV

0.2.1.1. Divergence space

FW25M H: 1492.537 urad V: 273.632 urad

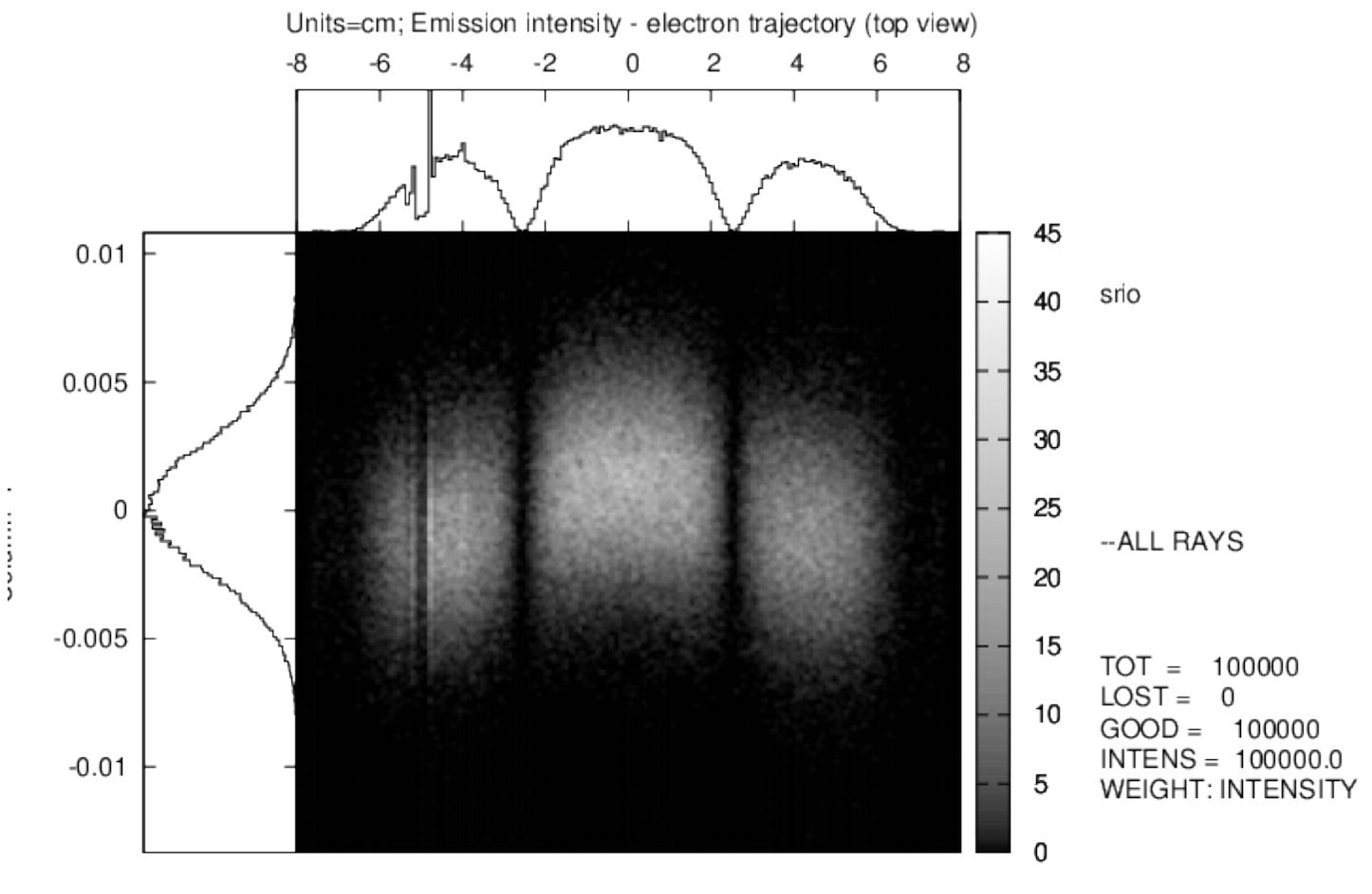
FWHM H: 1432.836 urad V: 218.905 urad

FW75M H: 1402.985 urad V: 164.179 urad



Column 4

0.2.1.2. Emission intensity - electron trajectory (top view)



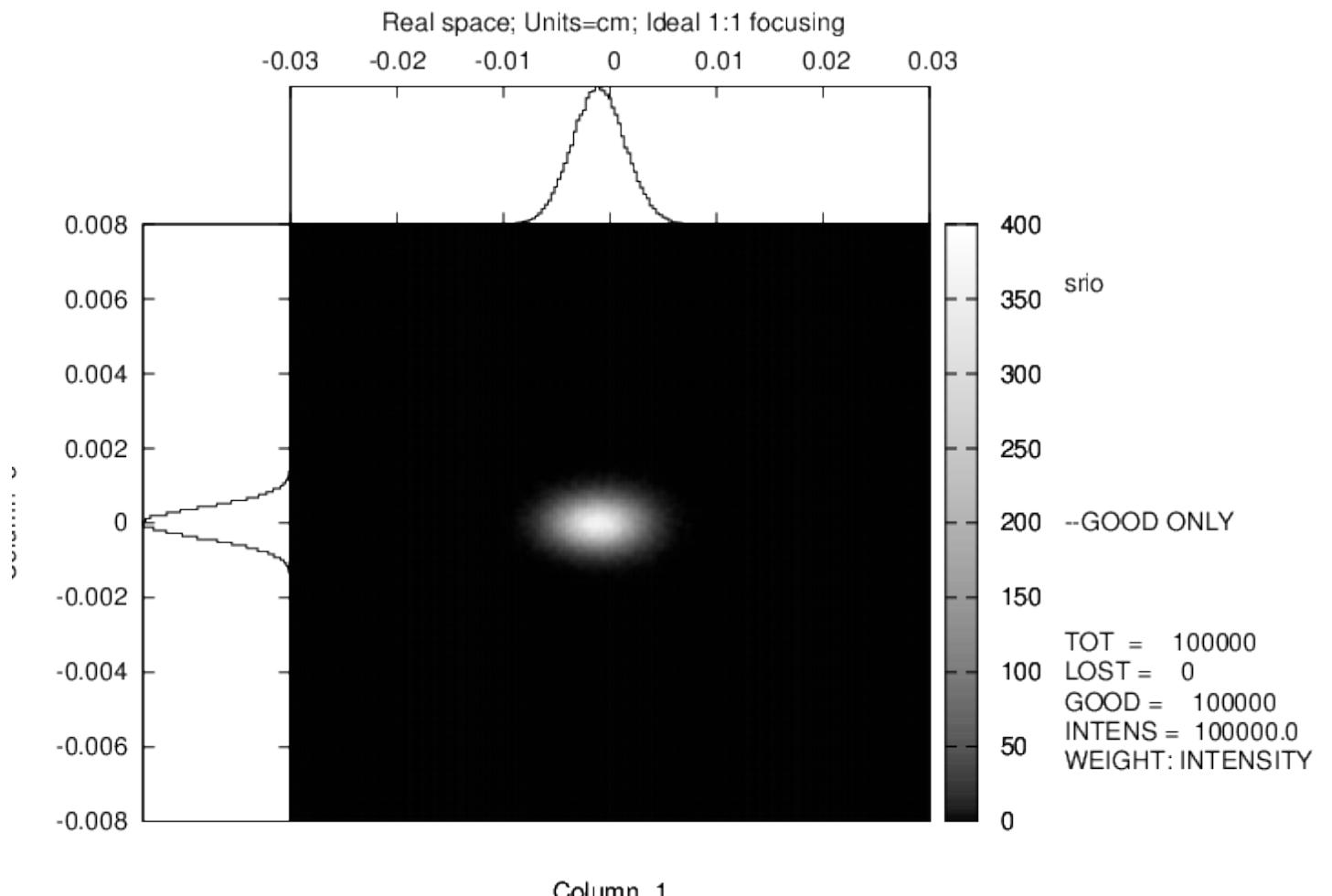
Column 2

0.2.1.3. Ideal 1:1 focusing

FW25M H: 80.597 um V: 12.736 um

FWHM H: 56.716 um V: 7.960 um

FW75M H: 35.821 um V: 4.776 um

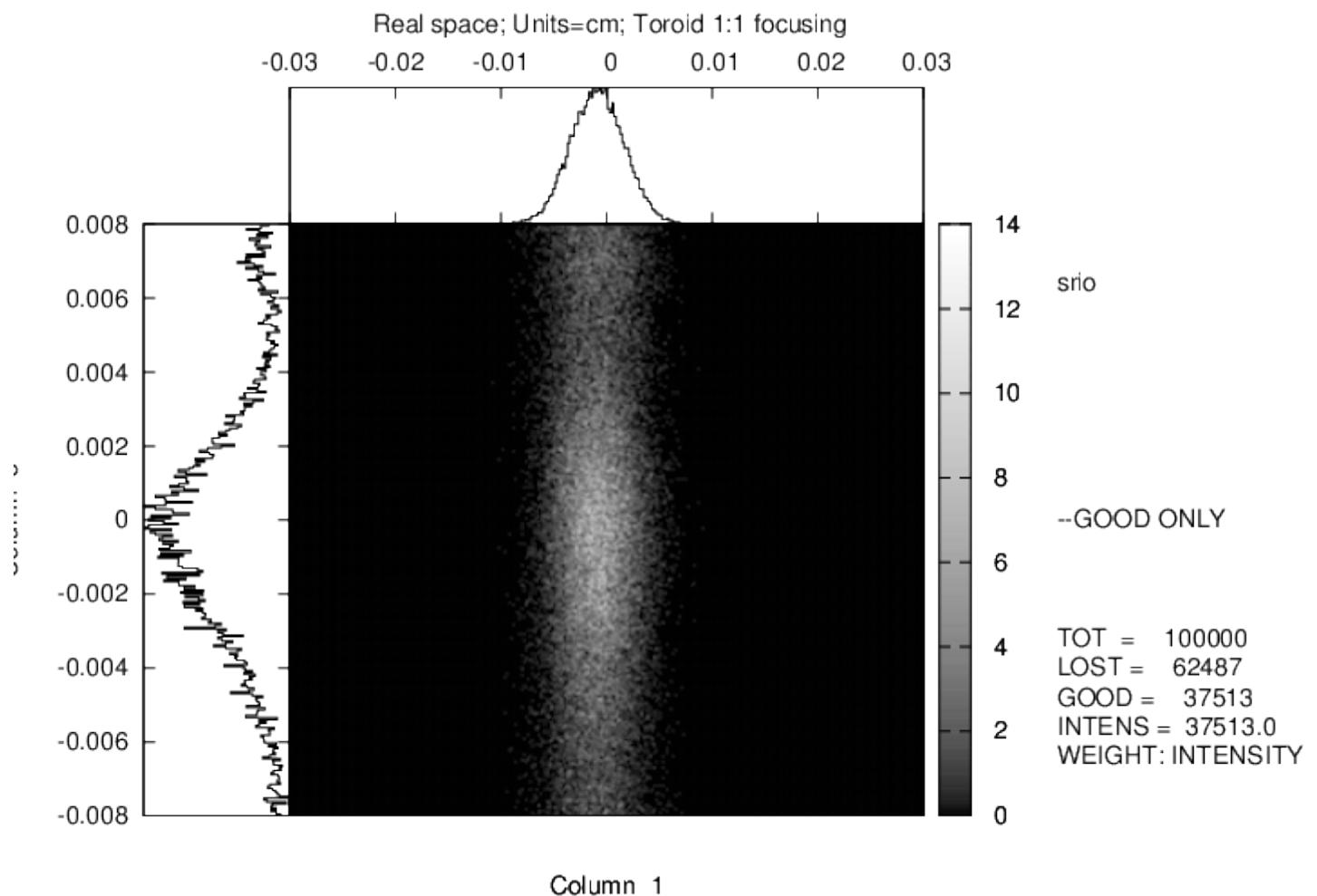


0.2.1.4. Toroid 1:1 focusing

FW25M H: 83.721 μm V: 158.405 μm

FWHM H: 55.814 μm V: 74.950 μm

FW75M H: 33.887 um V: 42.525 um

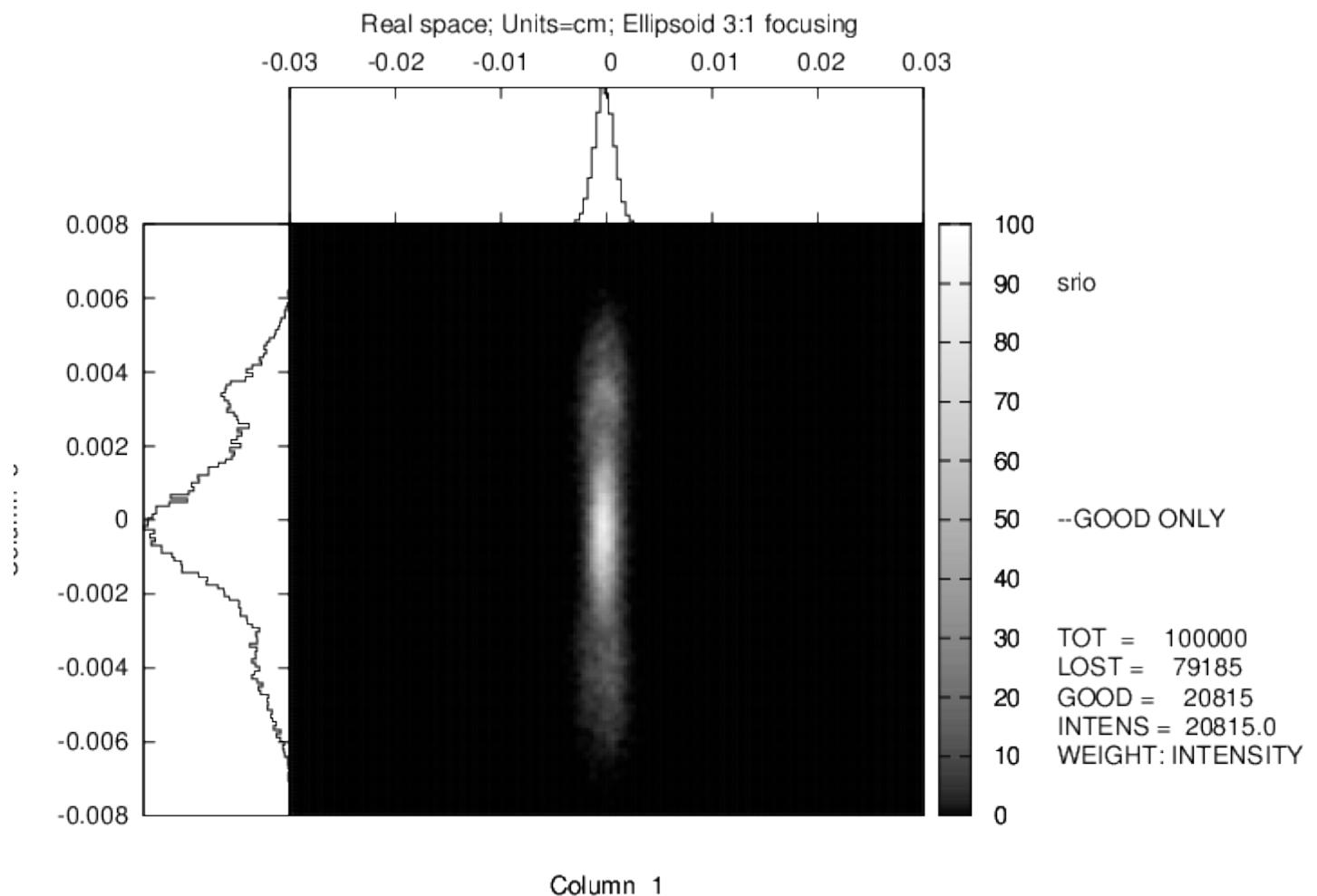


0.2.1.5. Ellipsoid 3:1 focusing

FW25M H: 27.815 um V: 83.709 um

FWHM H: 19.868 um V: 30.728 um

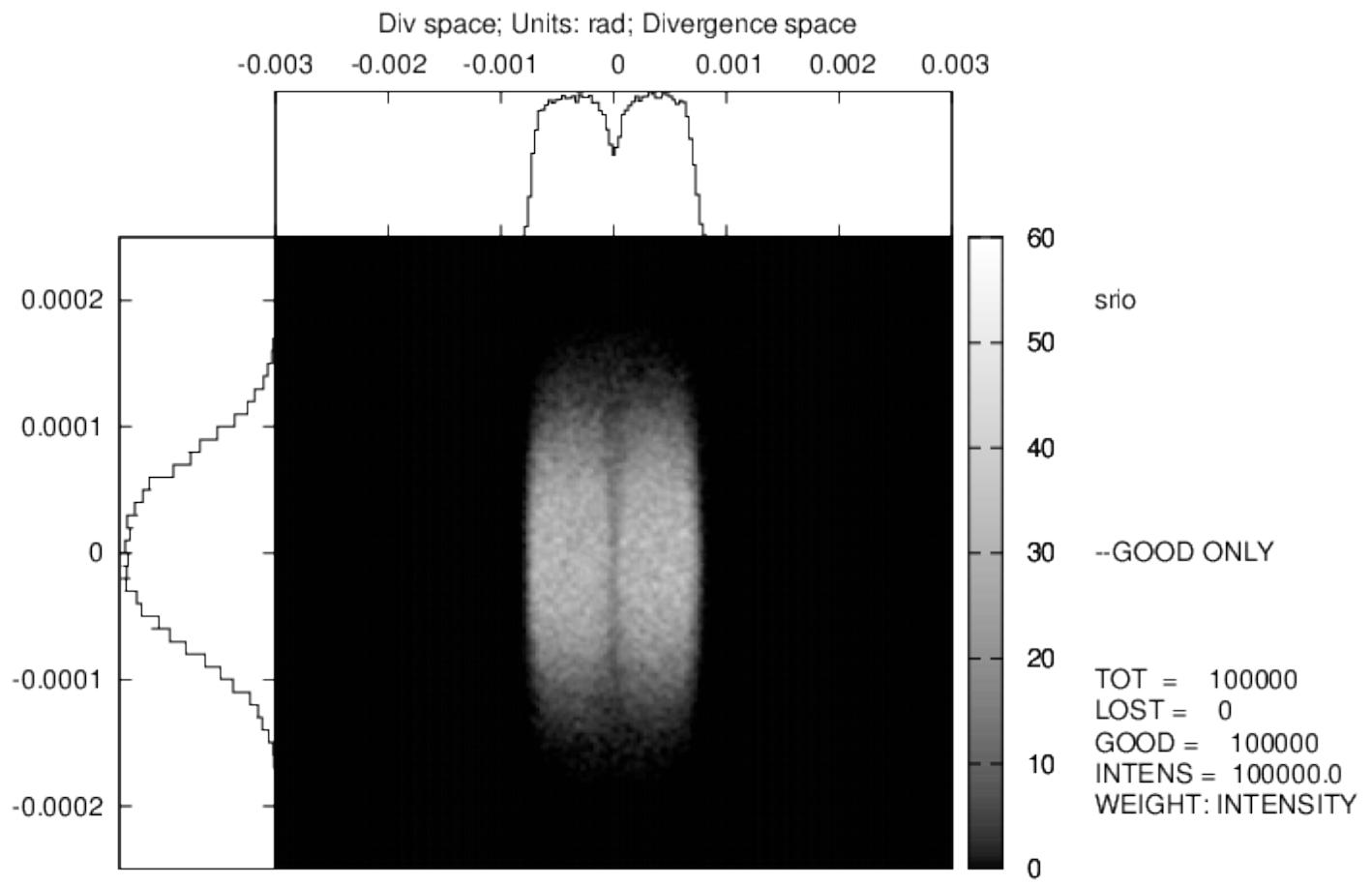
FW75M H: 11.921 um V: 16.954 um



0.2.2. Finite Emittance; magnetic field: 3Pcut; E=10 keV

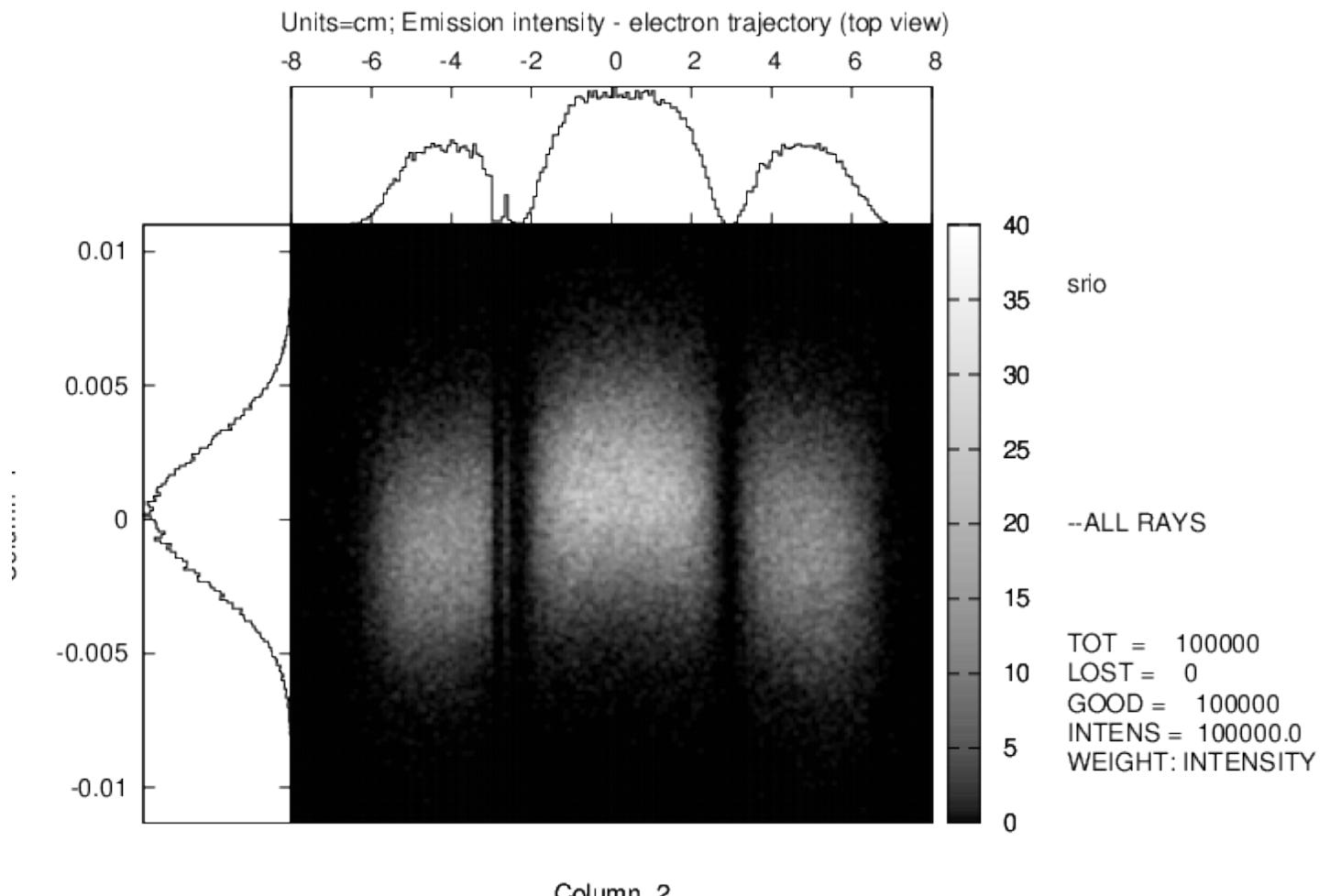
0.2.2.1. Divergence space

FW25M H: 1492.537 urad V: 208.955 urad
 FWHM H: 1402.985 urad V: 159.204 urad
 FW75M H: 1313.433 urad V: 111.940 urad



Column 4

0.2.2.2. Emission intensity - electron trajectory (top view)

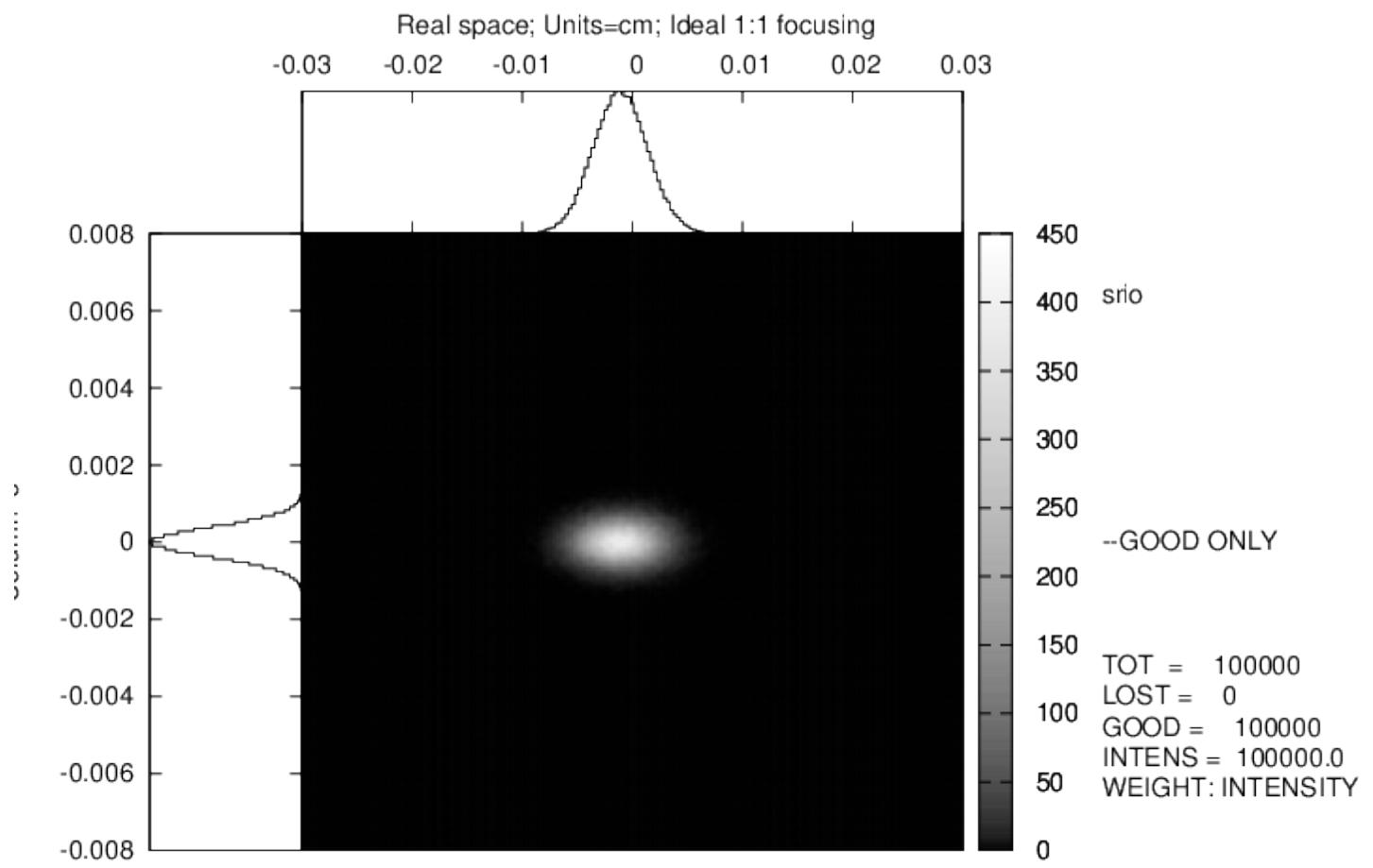


0.2.2.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 12.736 um

FWHM H: 56.716 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um



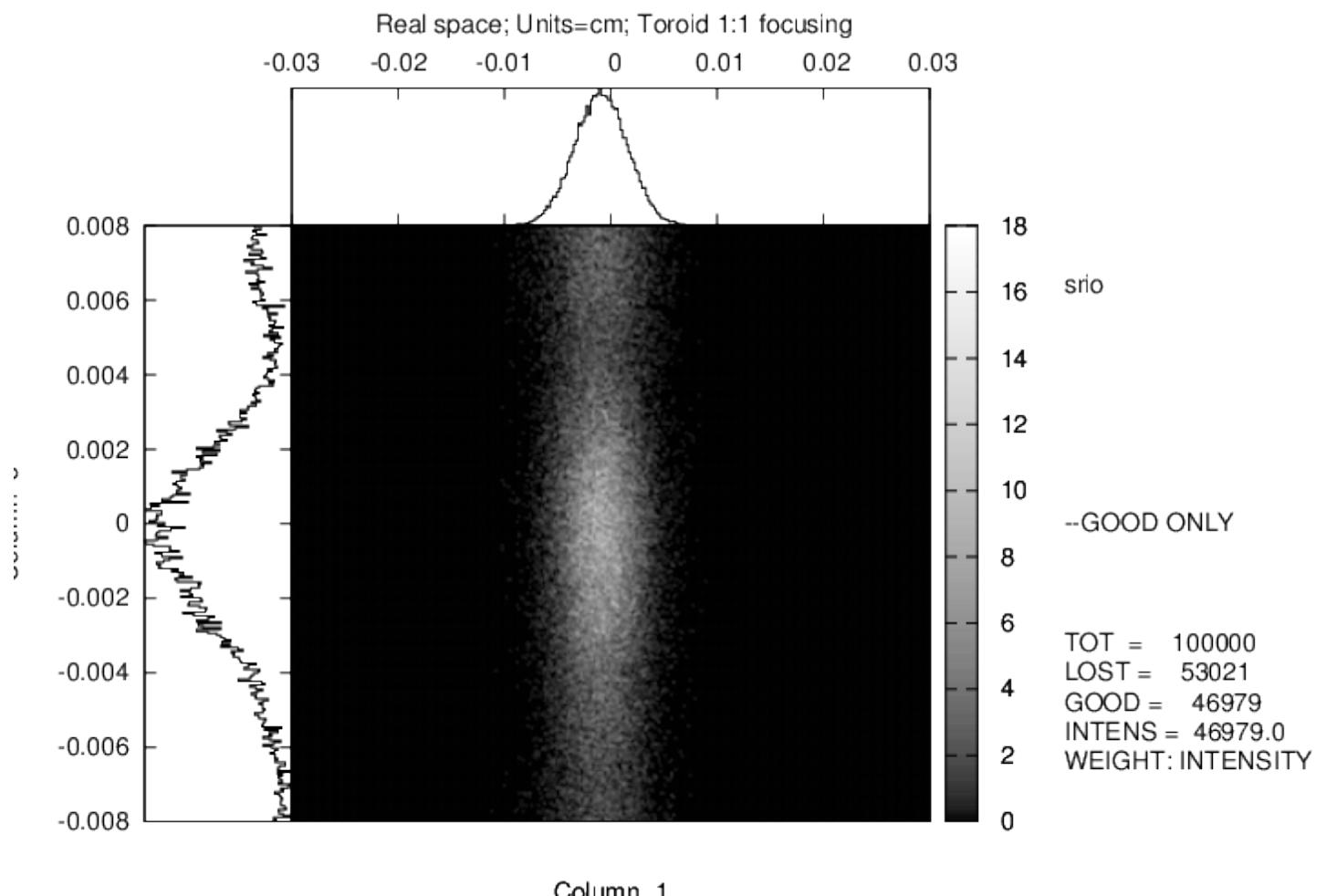
Column 1

0.2.2.4. Toroid 1:1 focusing

FW25M H: 79.734 um V: 158.937 um

FWHM H: 55.814 um V: 61.661 um

FW75M H: 33.887 um V: 38.272 um

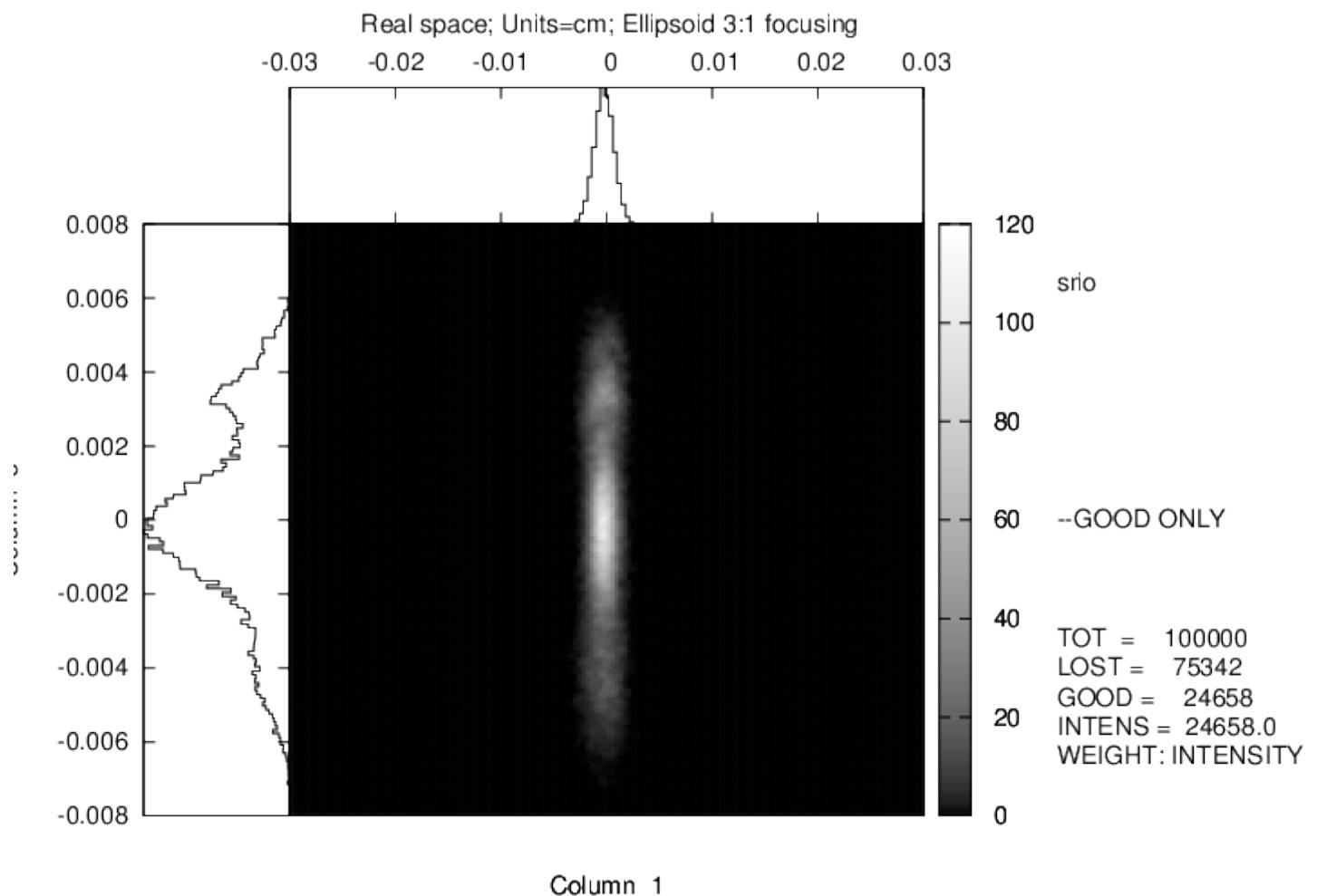


0.2.2.5. Ellipsoid 3:1 focusing

FW25M H: 27.815 um V: 81.589 um

FWHM H: 19.868 um V: 51.921 um

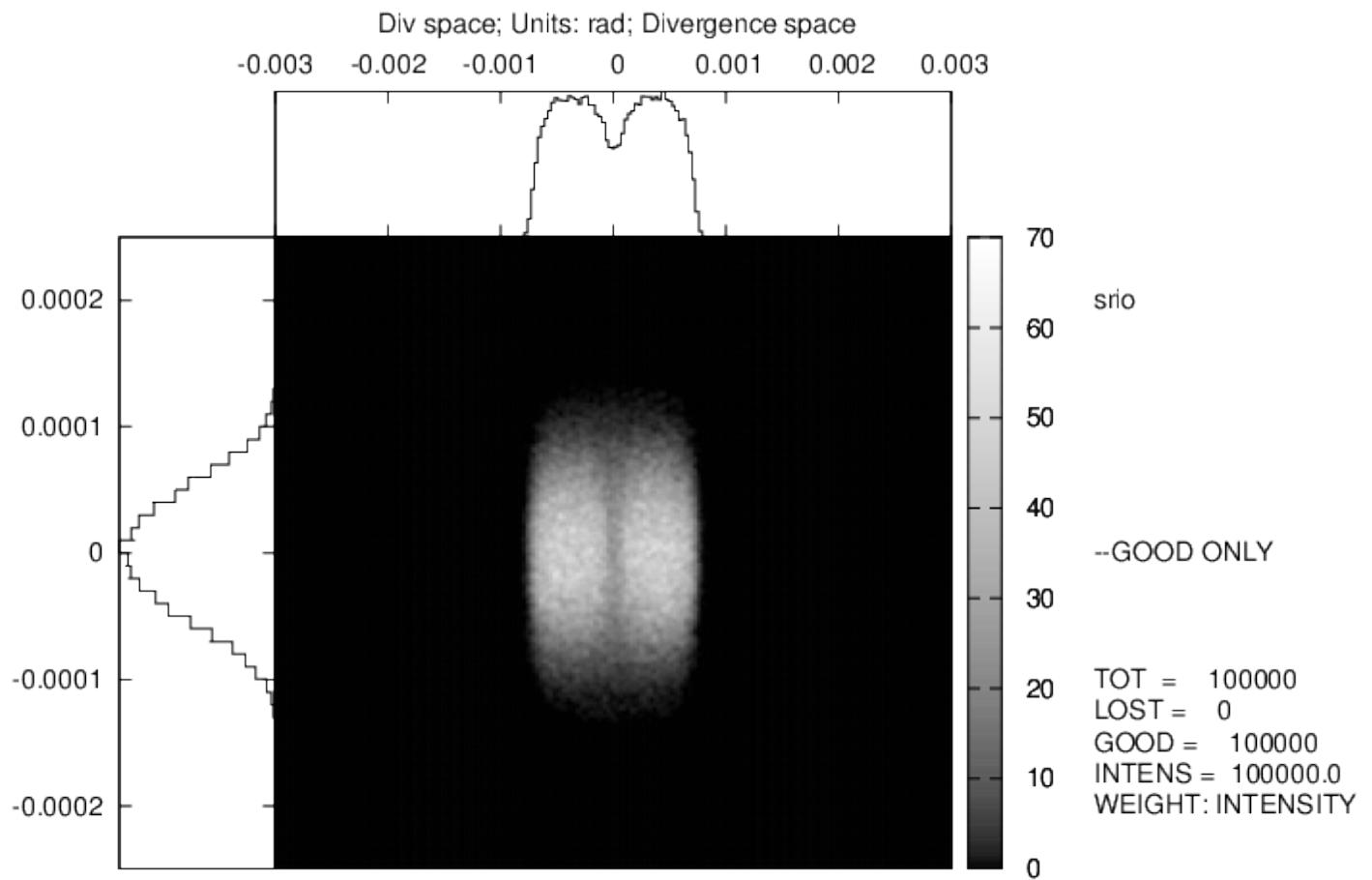
FW75M H: 11.921 um V: 18.013 um



0.2.3. Finite Emittance; magnetic field: 3Pcut; E=20 keV

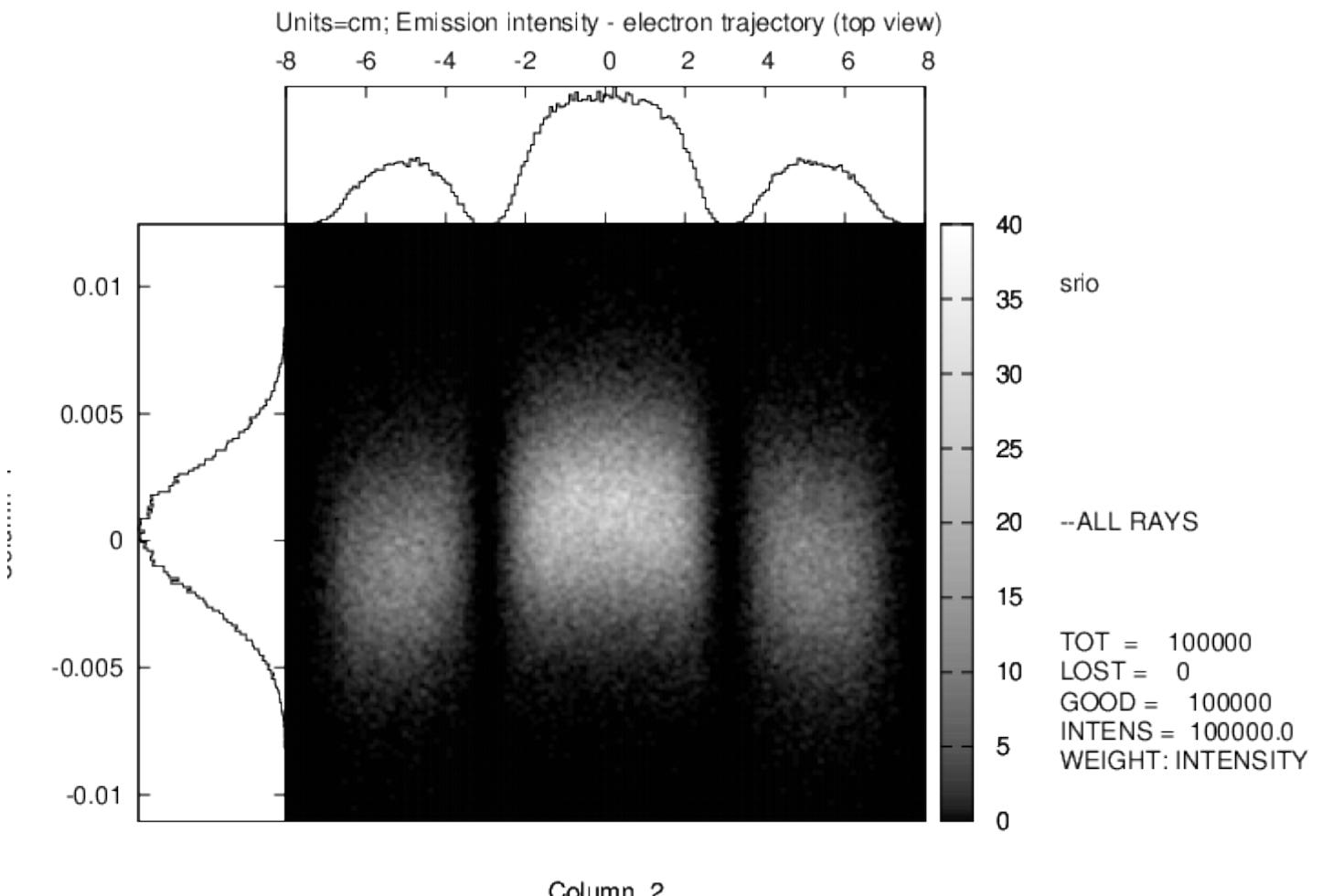
0.2.3.1. Divergence space

FW25M H: 1432.836 urad V: 156.716 urad
 FWHM H: 1373.134 urad V: 114.428 urad
 FW75M H: 1253.731 urad V: 74.627 urad



Column 4

0.2.3.2. Emission intensity - electron trajectory (top view)

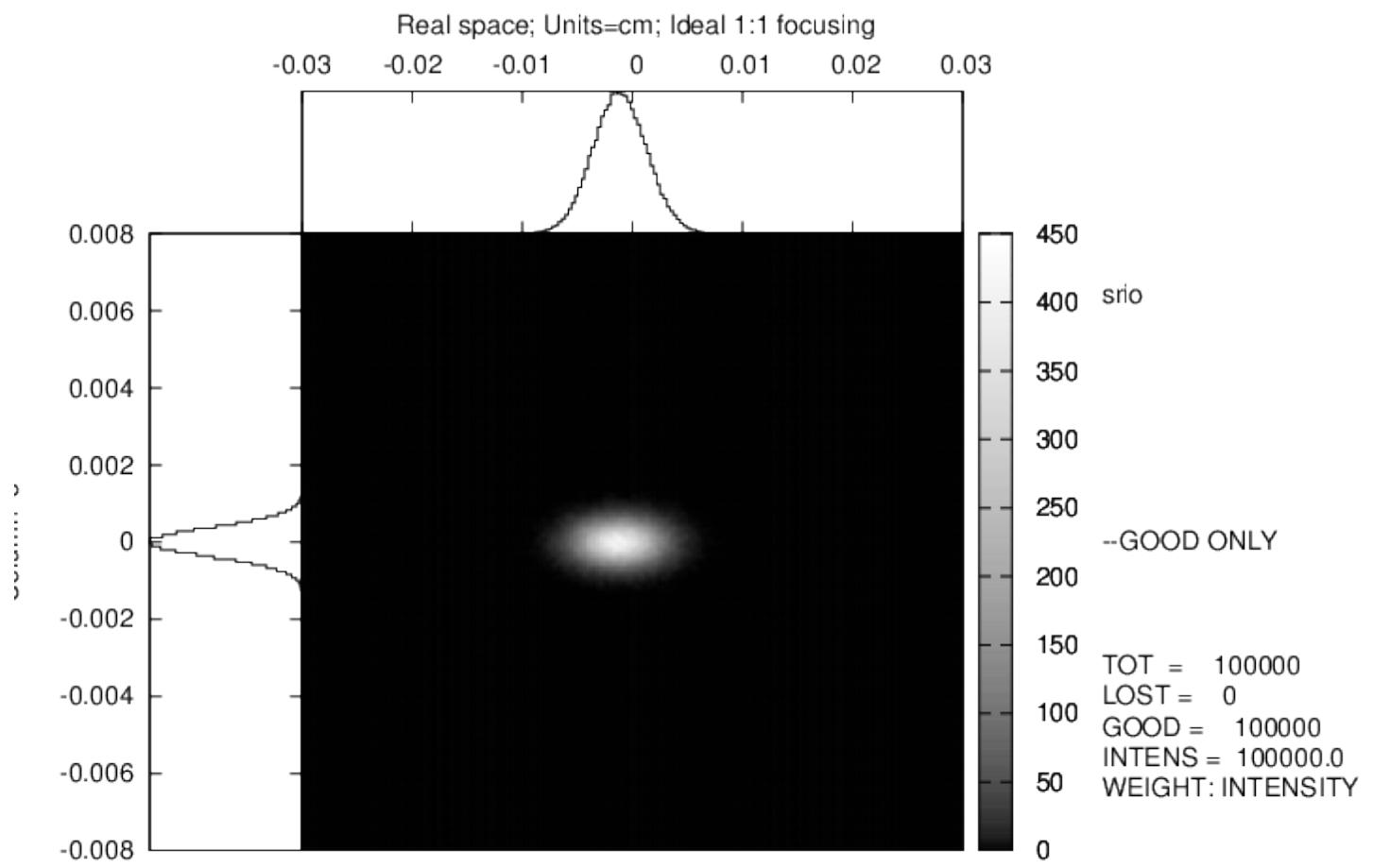


0.2.3.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um



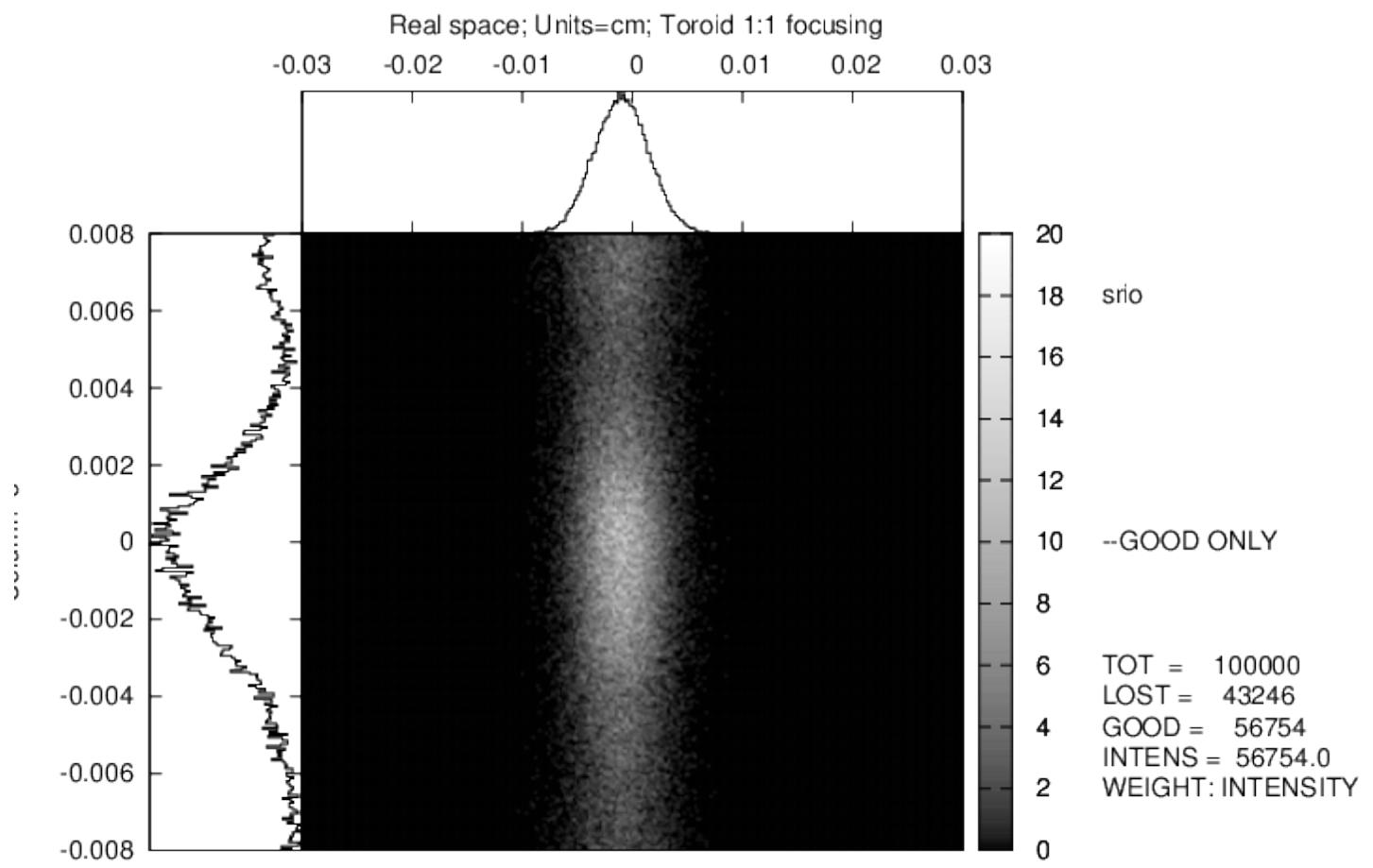
Column 1

0.2.3.4. Toroid 1:1 focusing

FW25M H: 79.734 um V: 158.937 um

FWHM H: 57.807 um V: 57.409 um

FW75M H: 33.887 um V: 30.299 um

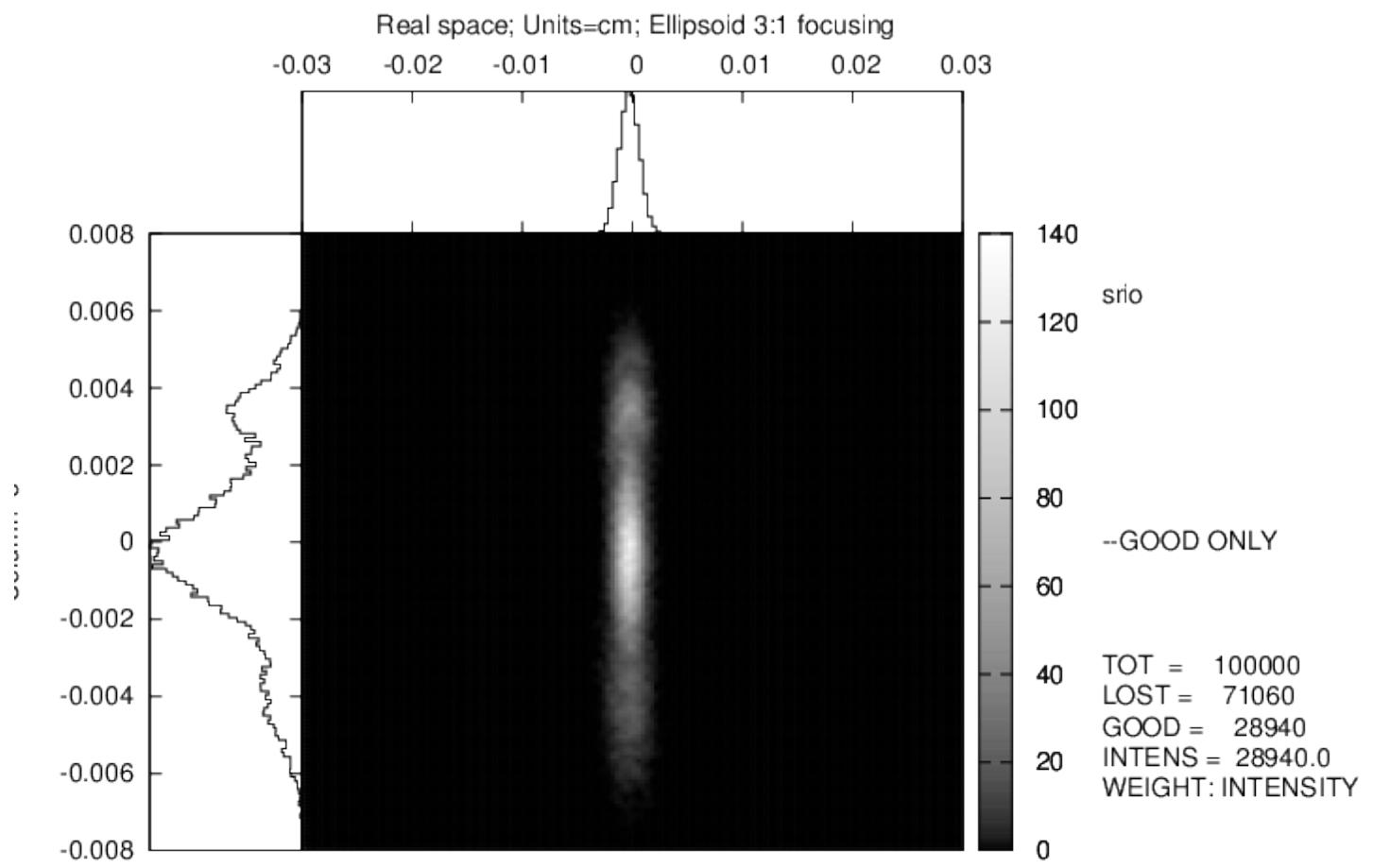


0.2.3.5. Ellipsoid 3:1 focusing

FW25M H: 27.815 um V: 85.828 um

FWHM H: 19.868 um V: 30.728 um

FW75M H: 11.921 um V: 15.894 um



Column 1

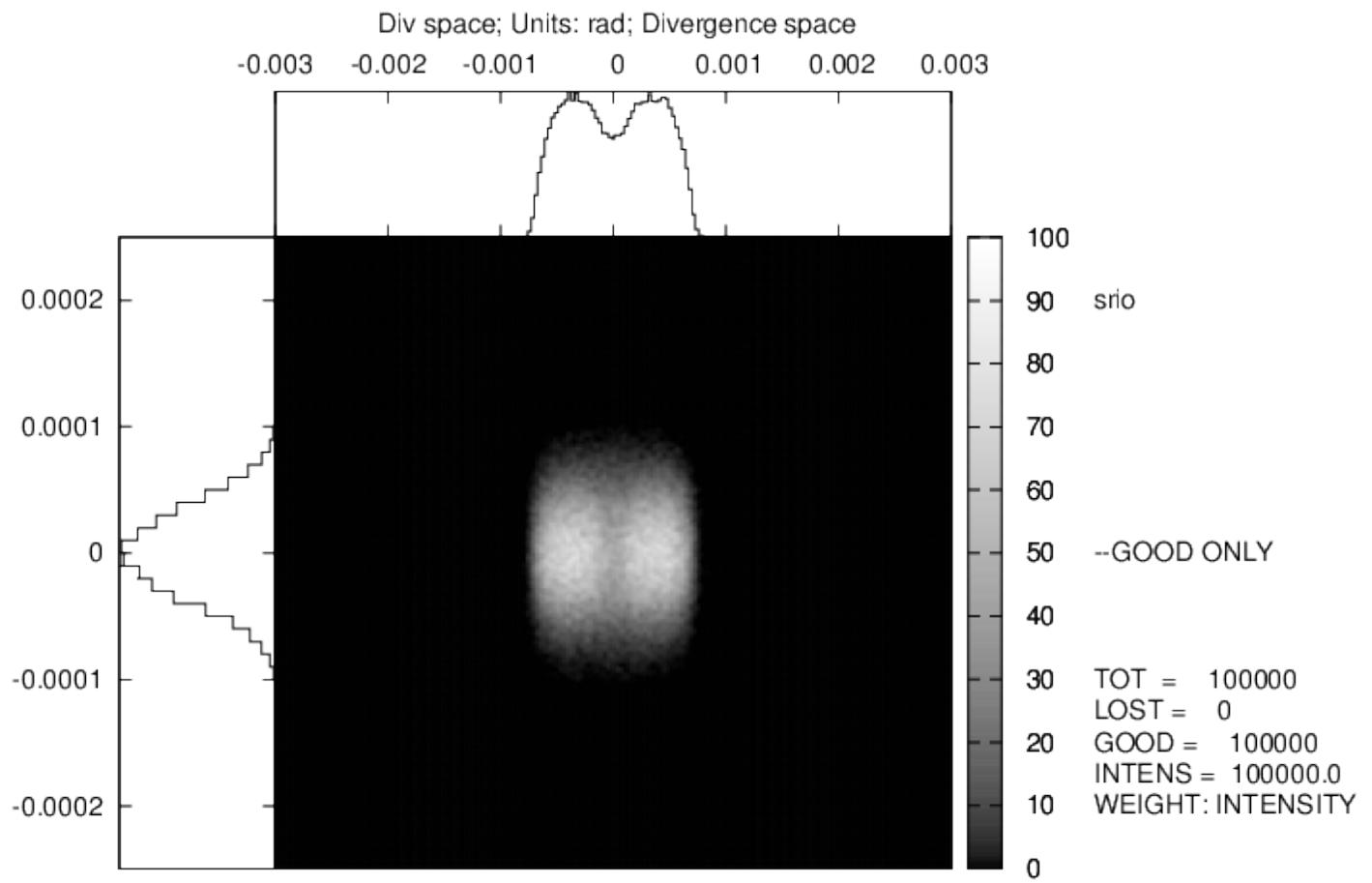
0.2.4. Finite Emittance; magnetic field: 3Pcut; E=40 keV

0.2.4.1. Divergence space

FW25M H: 1373.134 urad V: 111.940 urad

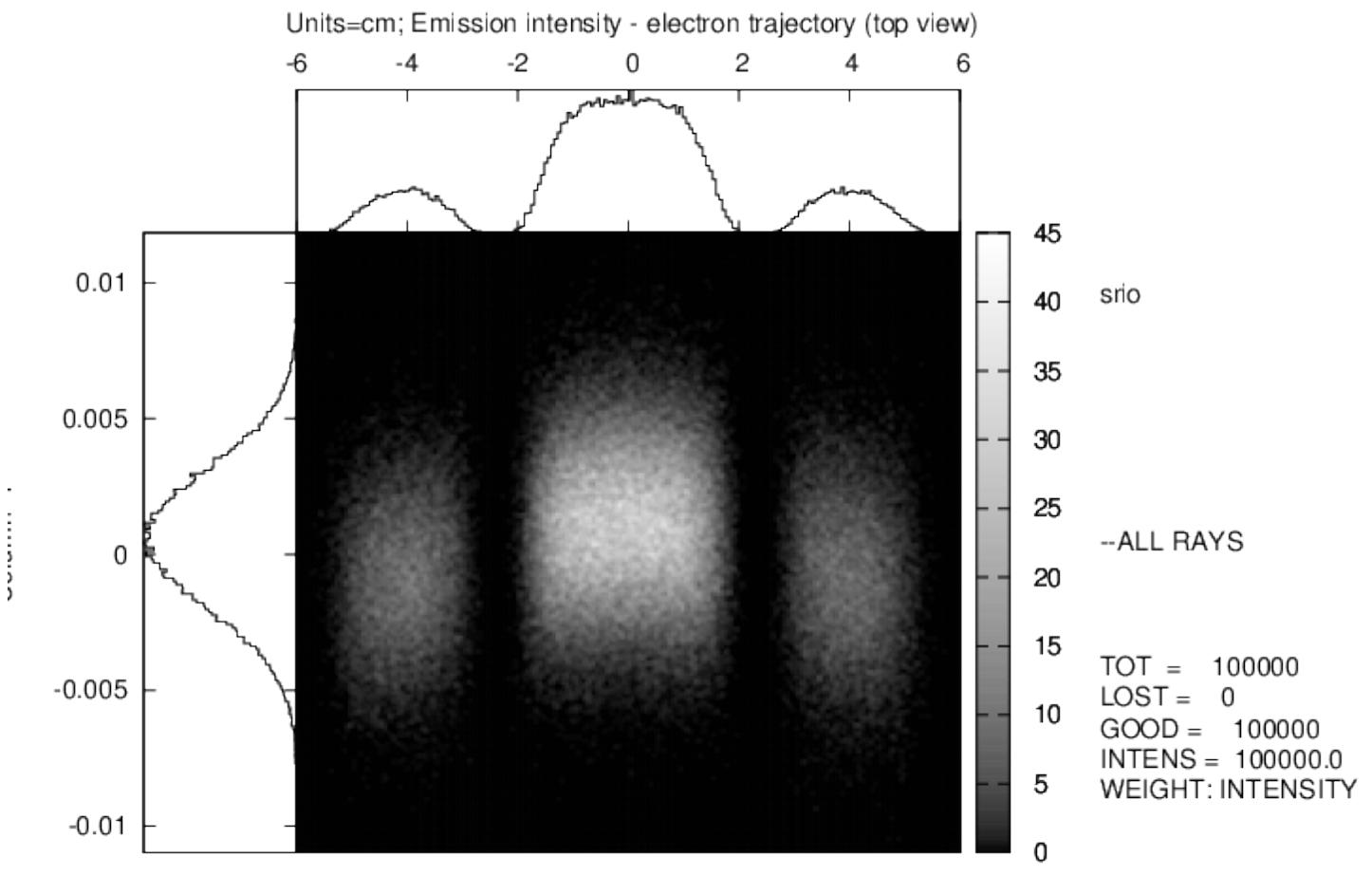
FWHM H: 1253.731 urad V: 82.090 urad

FW75M H: 1104.478 urad V: 52.239 urad



Column 4

0.2.4.2. Emission intensity - electron trajectory (top view)



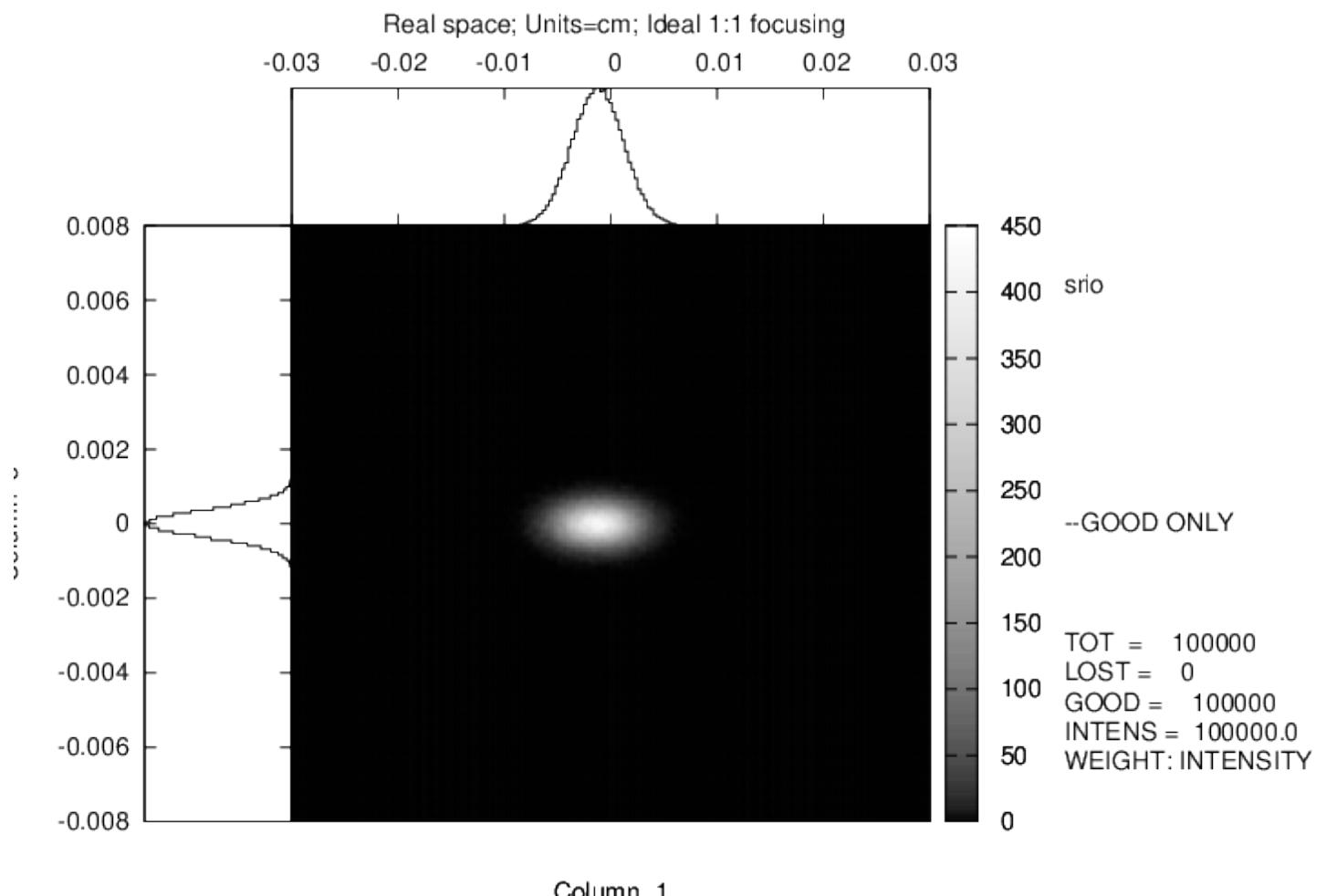
Column 2

0.2.4.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 35.821 um V: 4.776 um

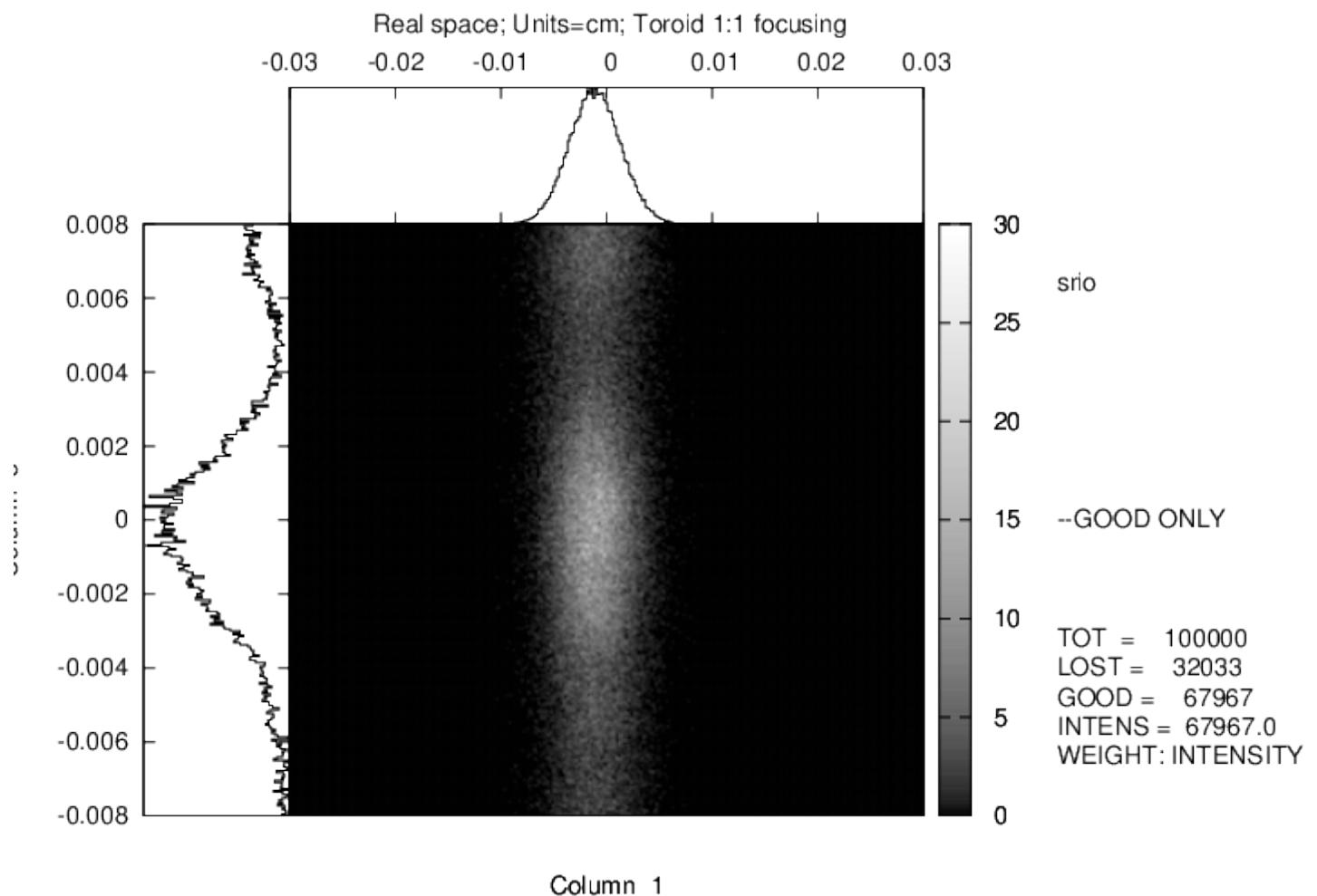


0.2.4.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 139.269 um

FWHM H: 53.821 um V: 52.093 um

FW75M H: 33.887 um V: 28.173 um

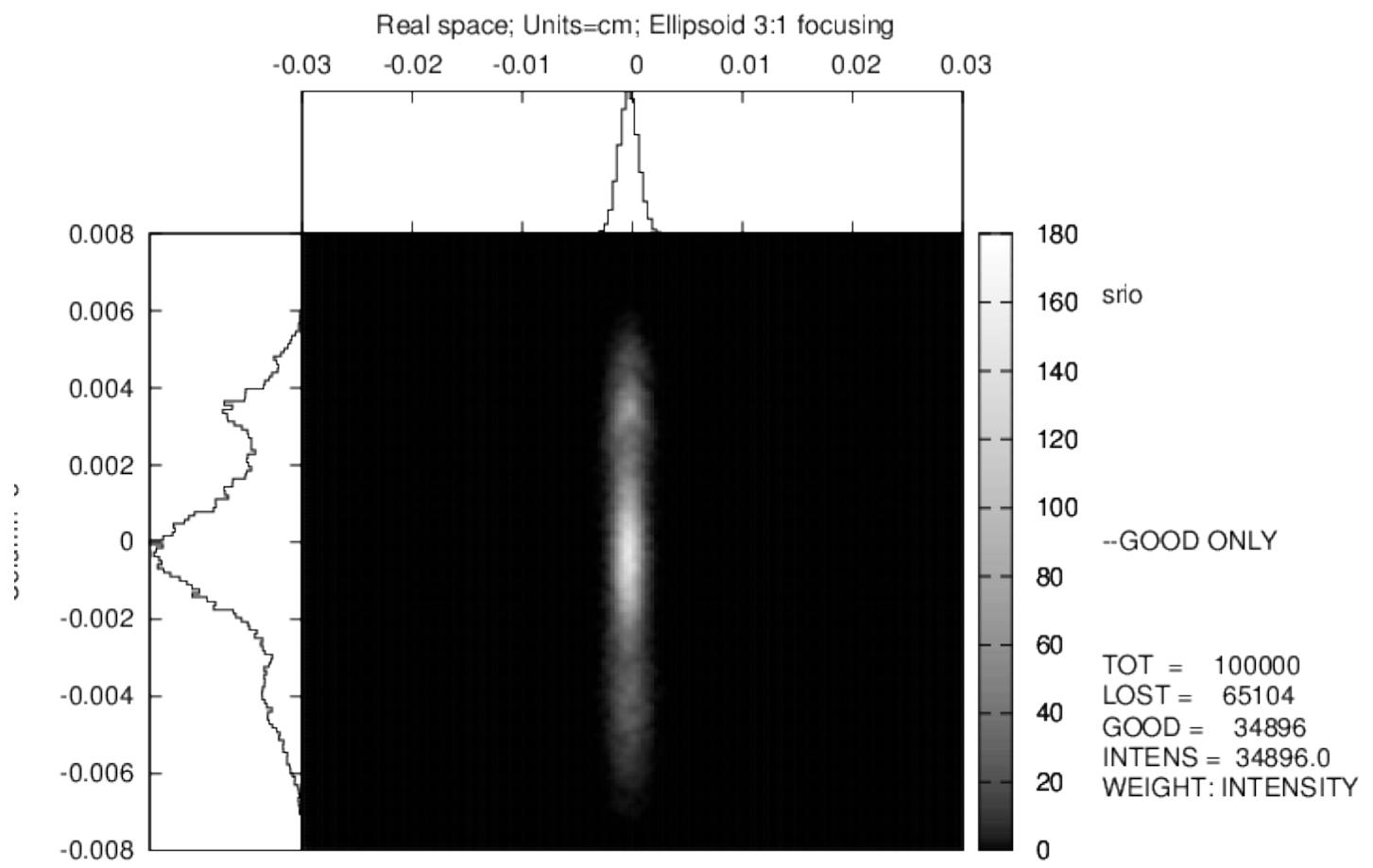


0.2.4.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 80.530 um

FWHM H: 15.894 um V: 52.980 um

FW75M H: 7.947 um V: 15.894 um

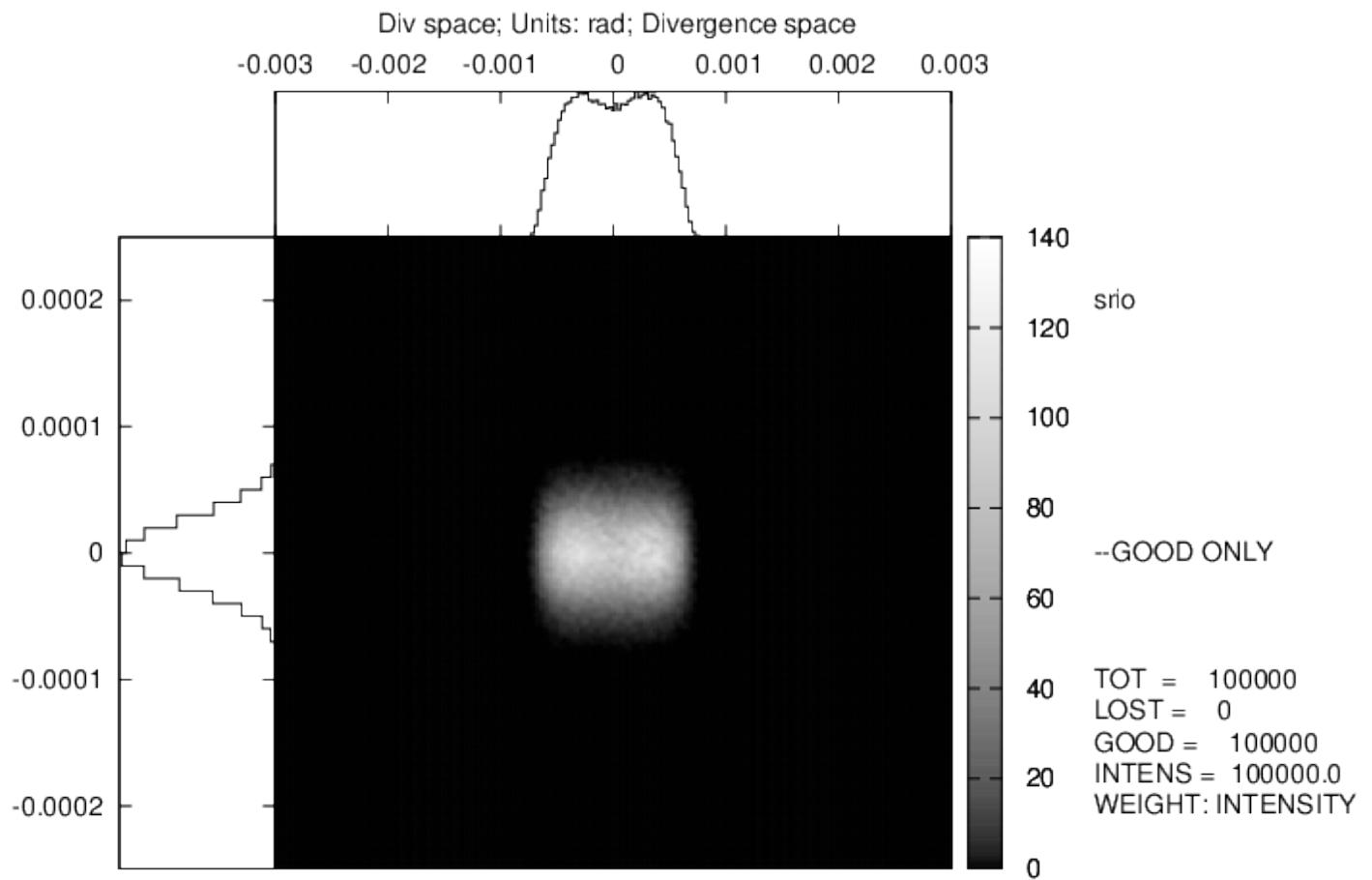


Column 1

0.2.5. Finite Emittance; magnetic field: 3Pcut; E=80 keV

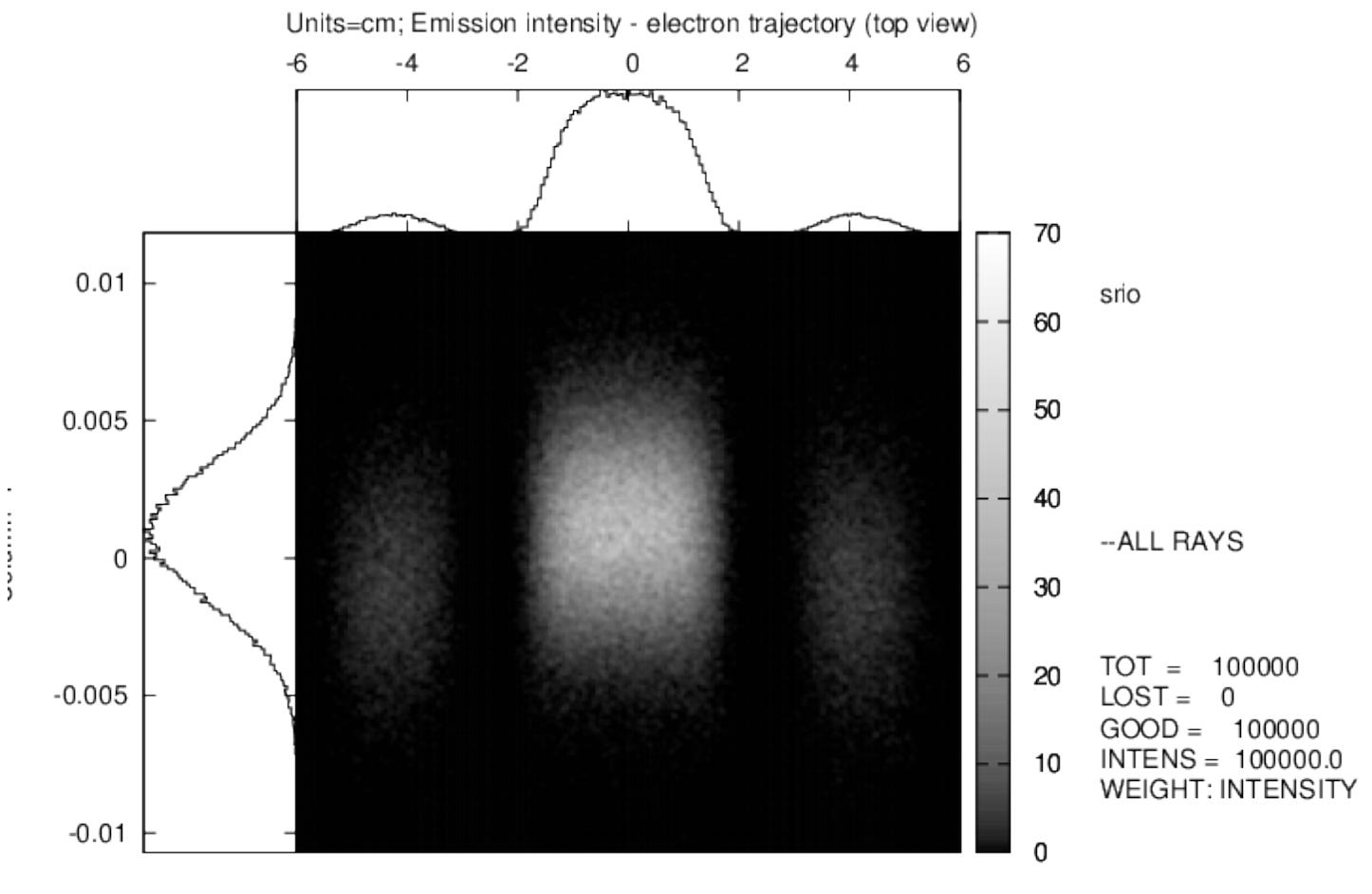
0.2.5.1. Divergence space

FW25M H: 1253.731 urad V: 82.090 urad
 FWHM H: 1134.328 urad V: 59.701 urad
 FW75M H: 985.075 urad V: 34.826 urad



Column 4

0.2.5.2. Emission intensity - electron trajectory (top view)



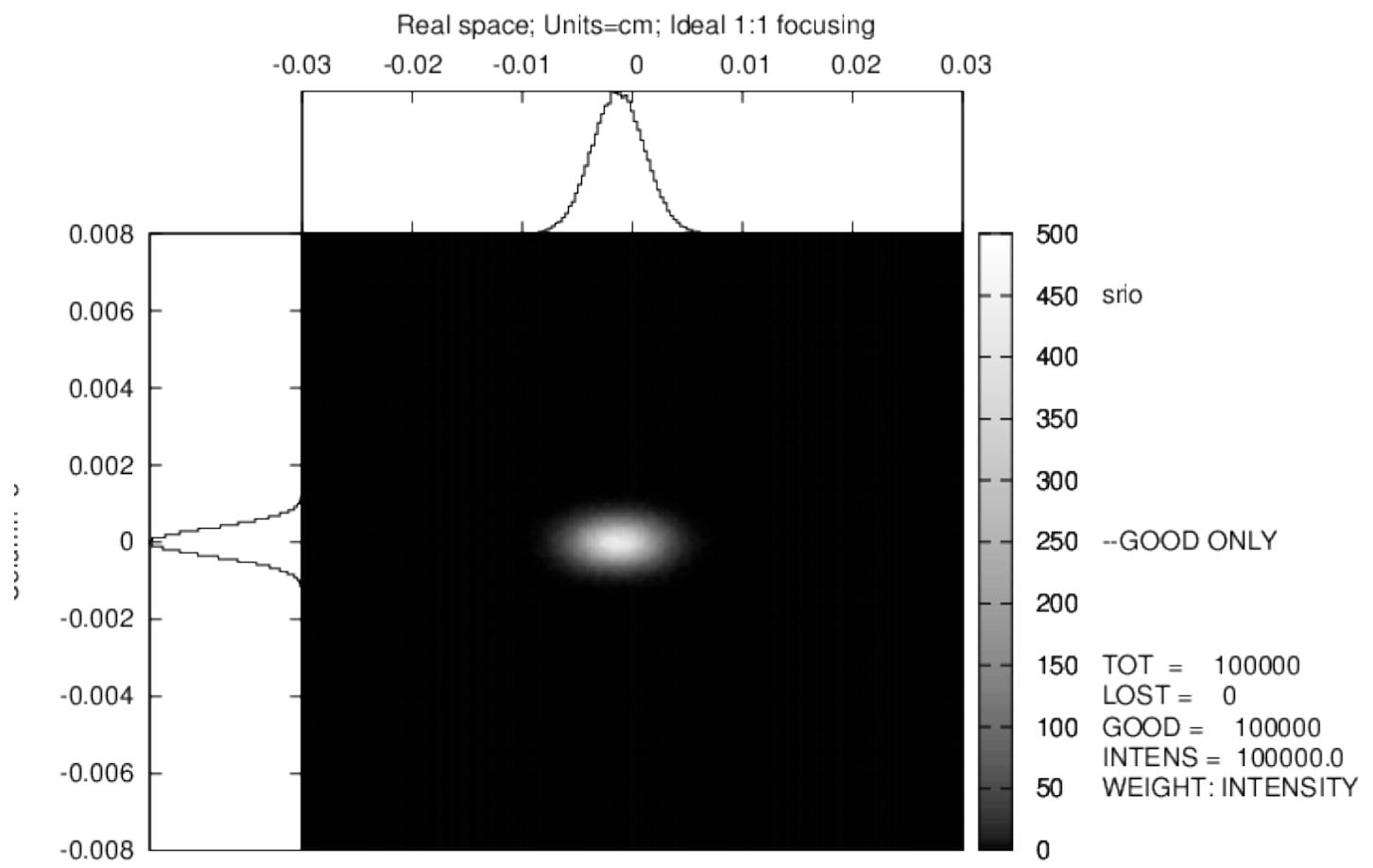
Column 2

0.2.5.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um



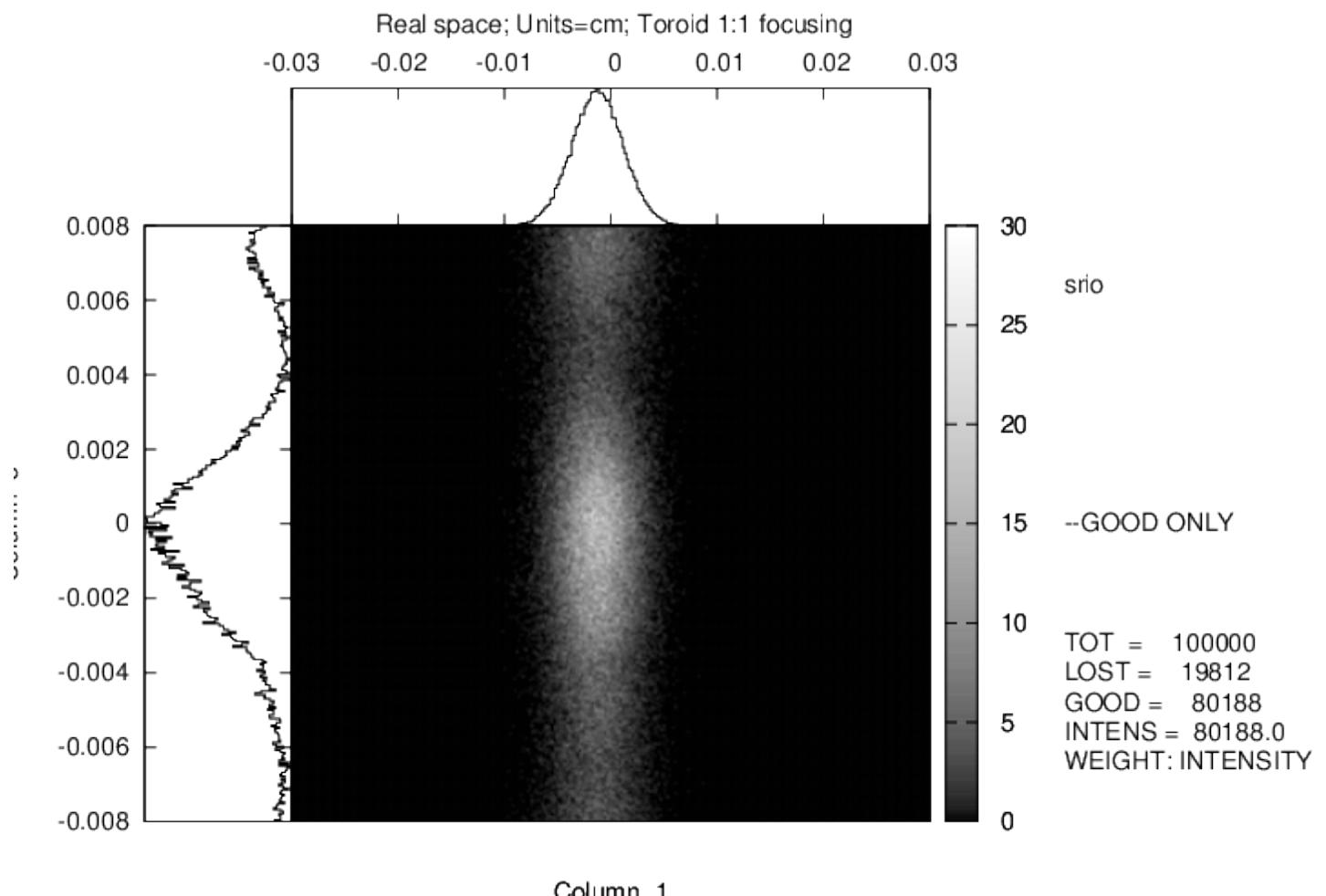
Column 1

0.2.5.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 156.279 um

FWHM H: 51.827 um V: 48.904 um

FW75M H: 31.894 um V: 30.299 um

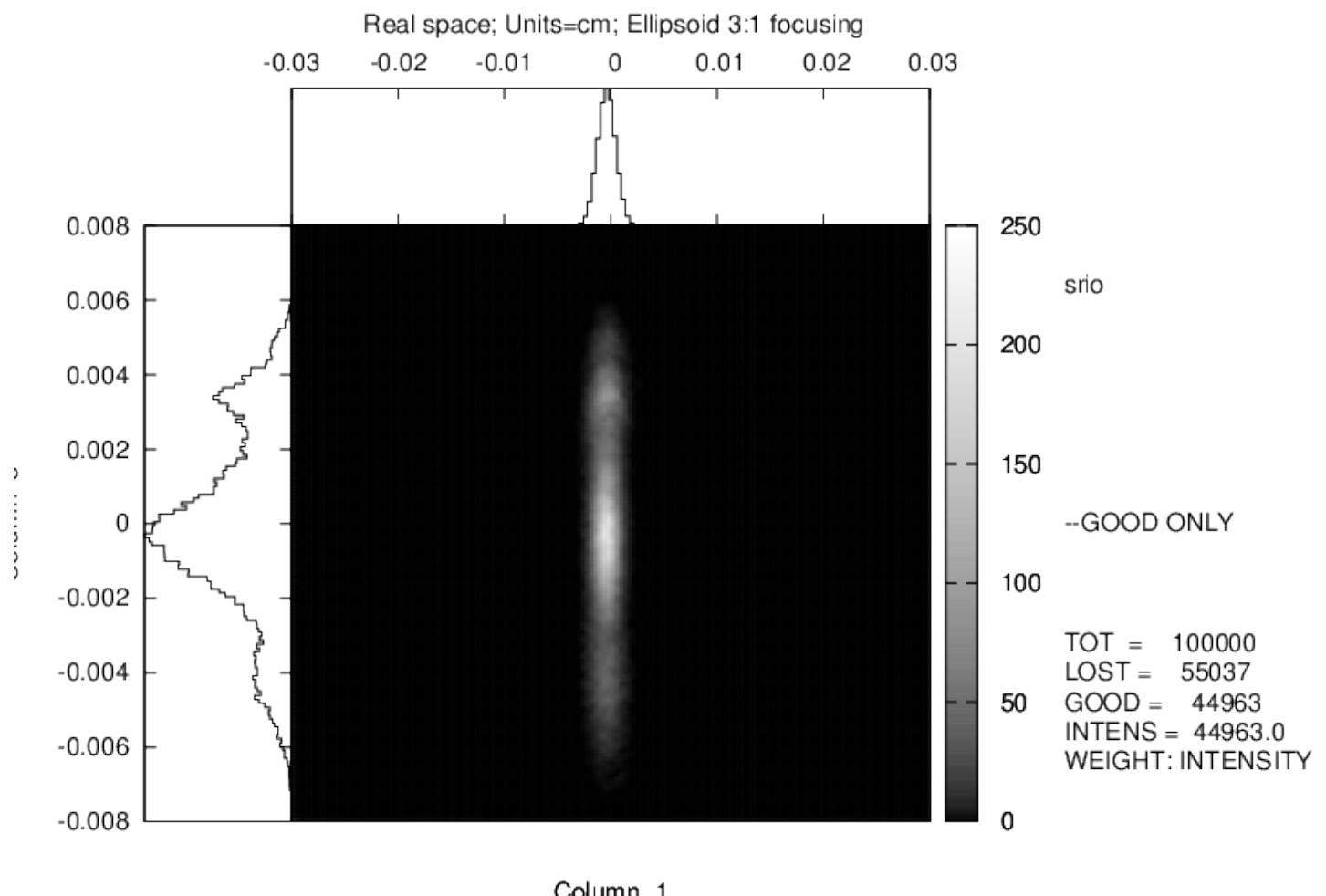


0.2.5.5. Ellipsoid 3:1 focusing

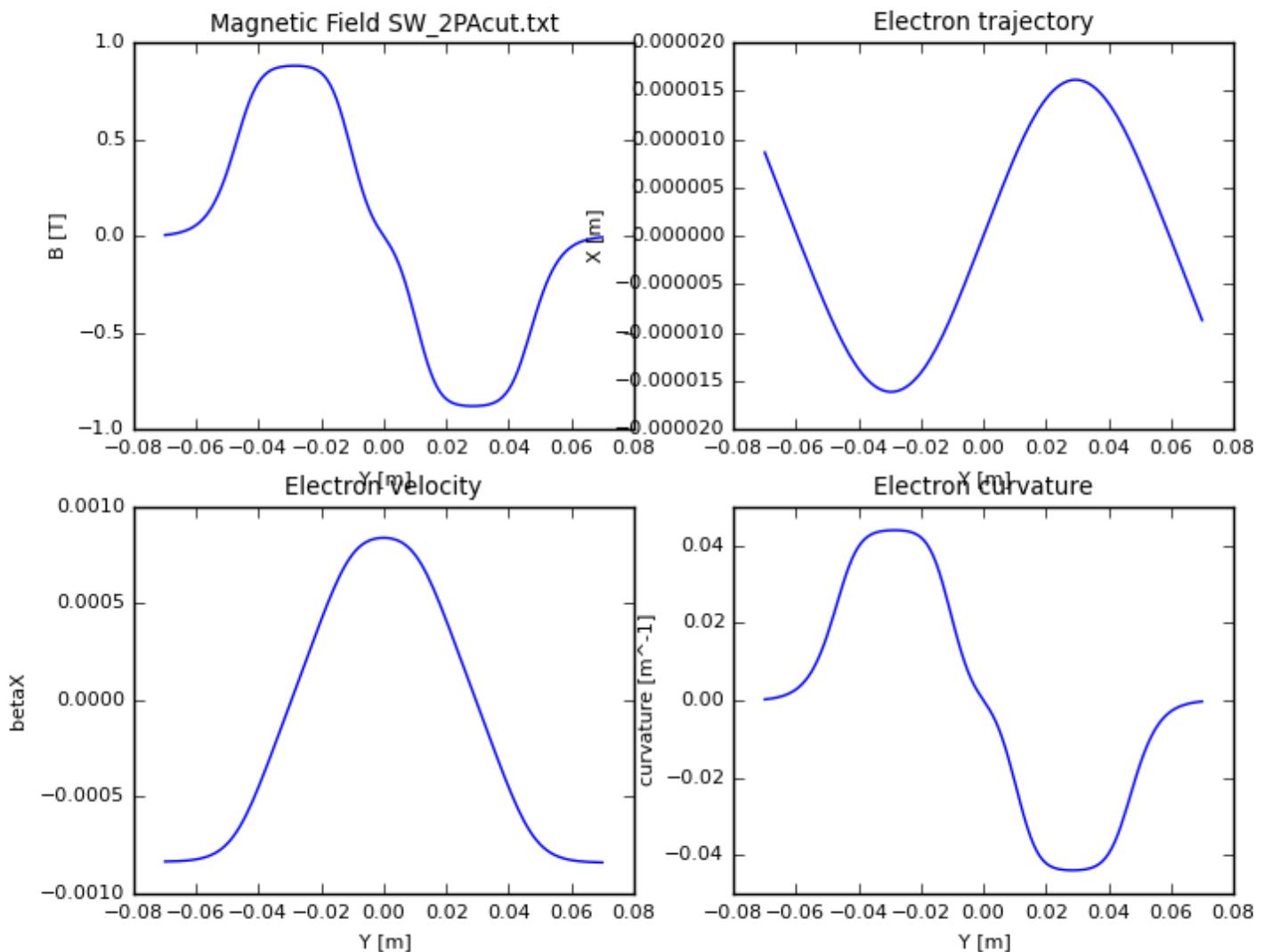
FW25M H: 23.841 um V: 87.947 um

FWHM H: 15.894 um V: 50.861 um

FW75M H: 7.947 um V: 14.834 um



0.3. Finite Emittance; magnetic field: 2PAcut



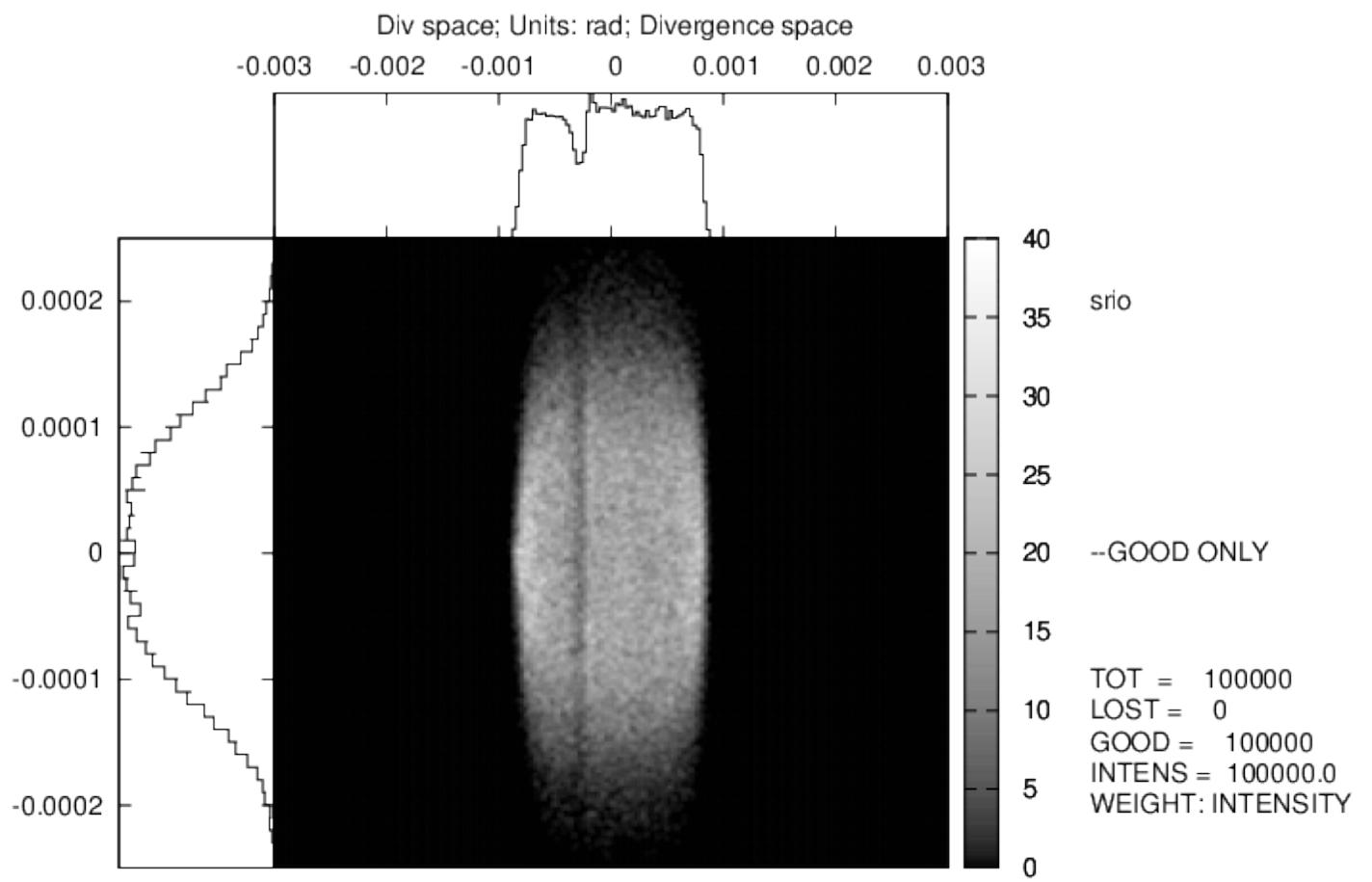
0.3.1. Finite Emittance; magnetic field: 2PAcut; E=5 keV

0.3.1.1. Divergence space

FW25M H: 1641.791 urad V: 303.483 urad

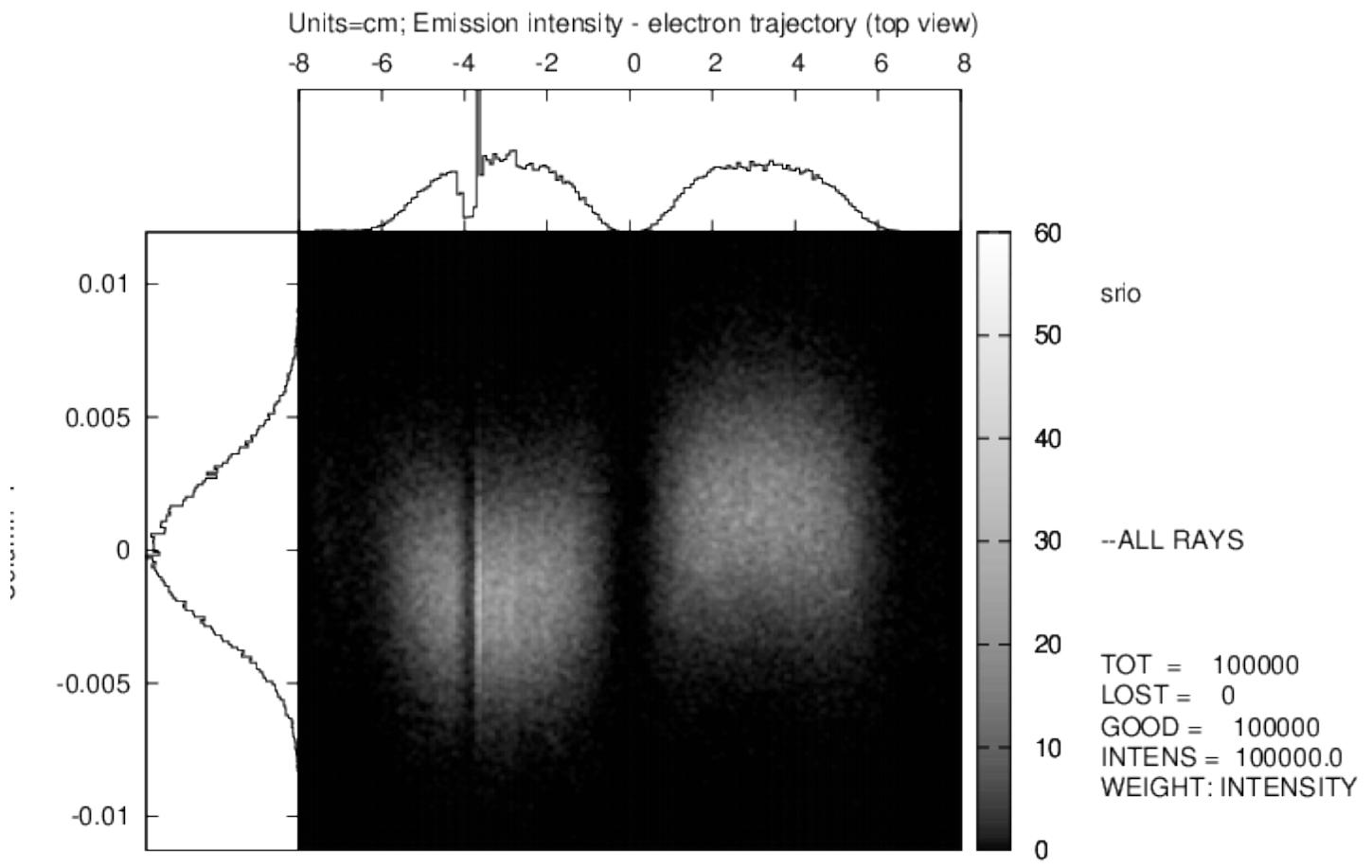
FWHM H: 1582.090 urad V: 236.318 urad

FW75M H: 1522.388 urad V: 176.617 urad



Column 4

0.3.1.2. Emission intensity - electron trajectory (top view)



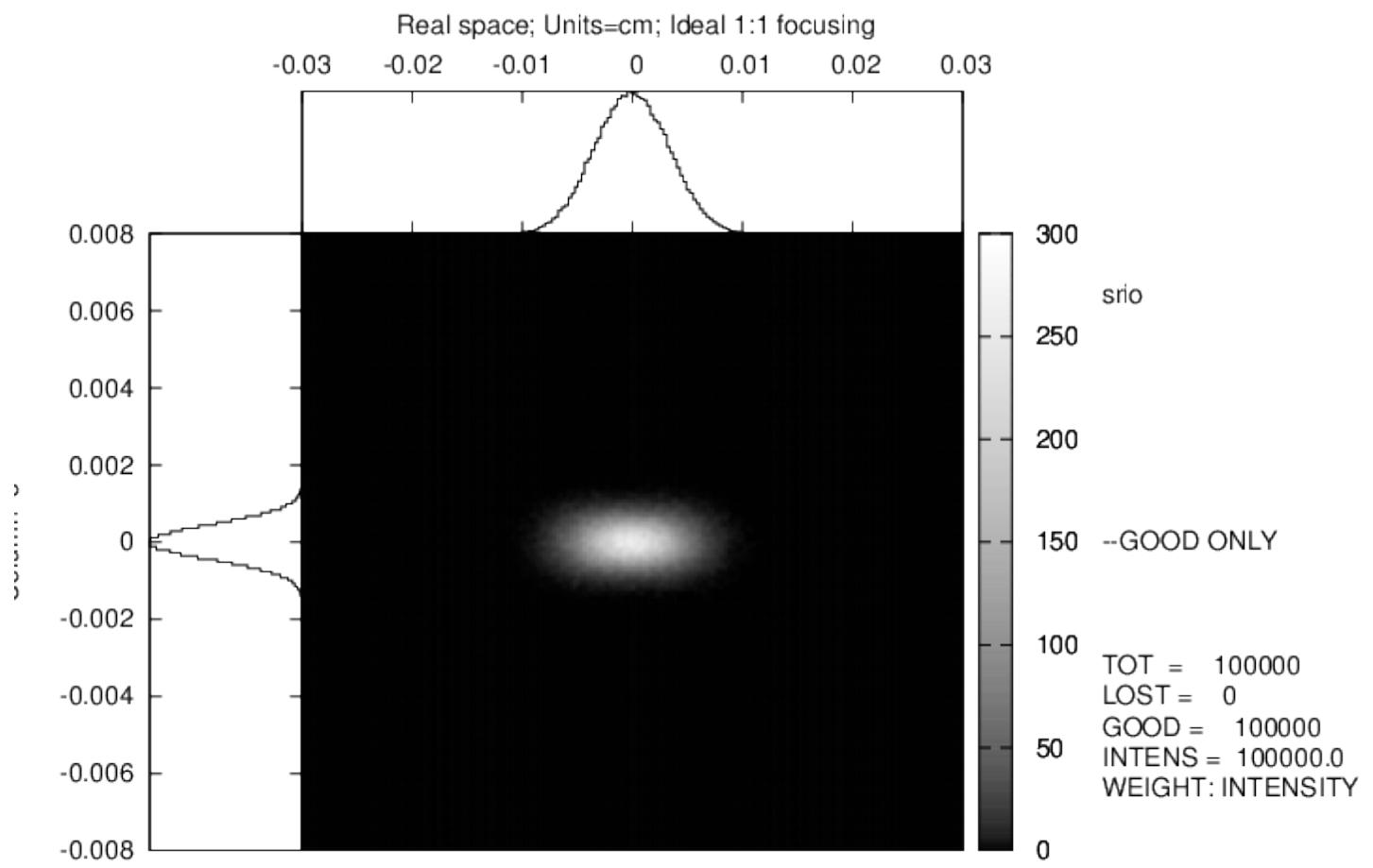
Column 2

0.3.1.3. Ideal 1:1 focusing

FW25M H: 110.448 um V: 14.328 um

FWHM H: 77.612 um V: 9.552 um

FW75M H: 50.746 um V: 6.368 um



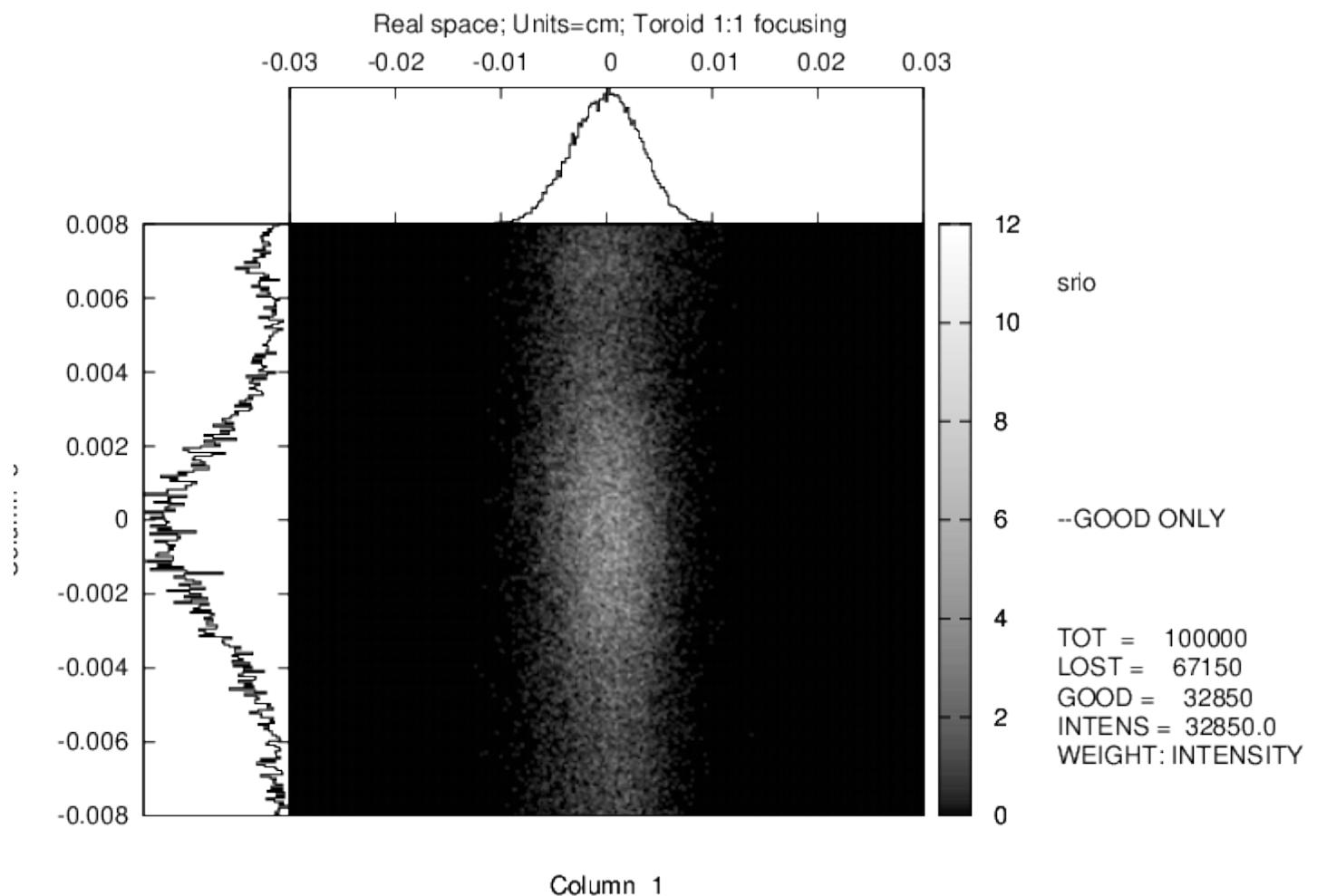
Column 1

0.3.1.4. Toroid 1:1 focusing

FW25M H: 109.635 um V: 159.468 um

FWHM H: 71.761 um V: 73.887 um

FW75M H: 47.841 um V: 41.462 um

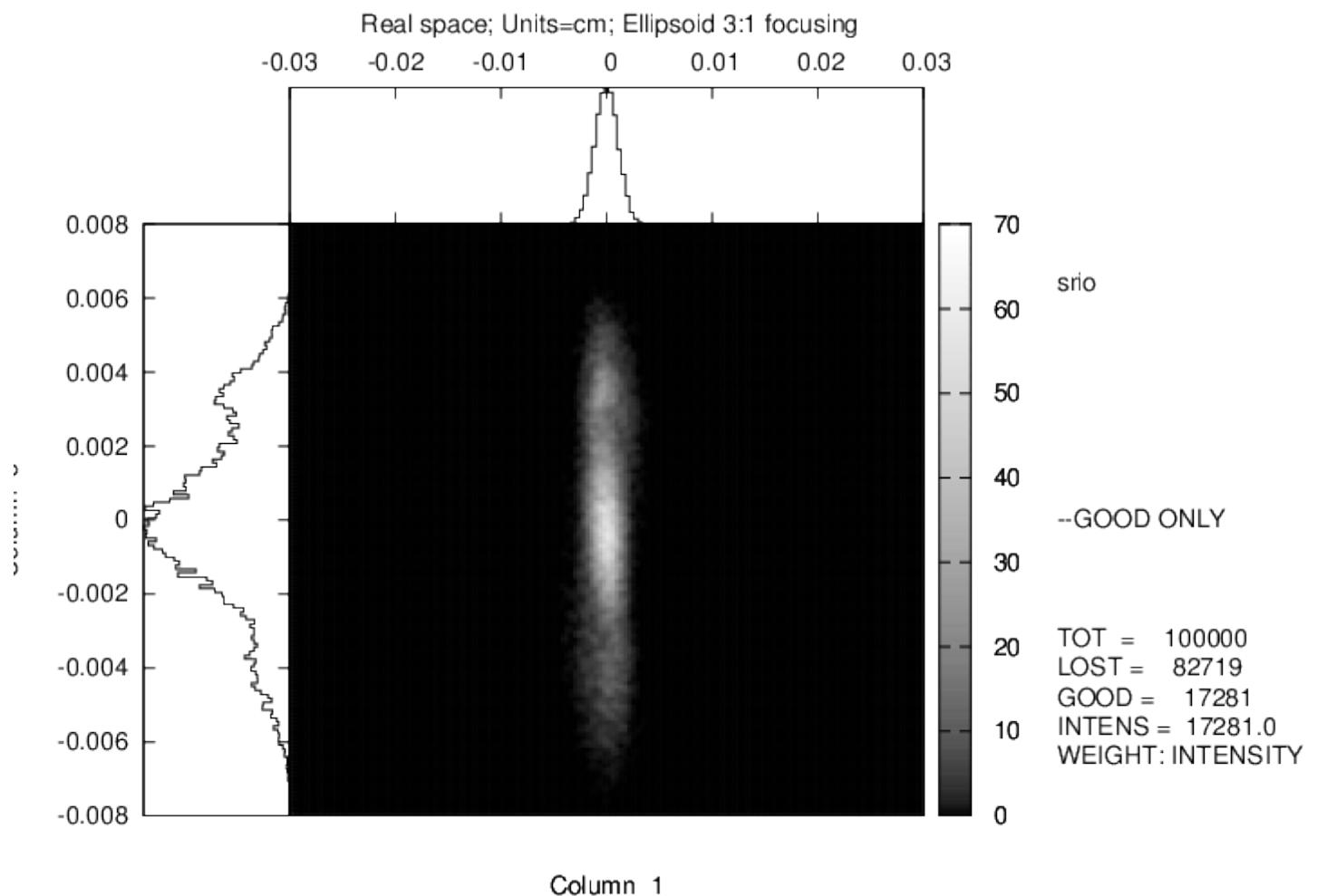


0.3.1.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 85.828 um

FWHM H: 23.841 um V: 51.921 um

FW75M H: 15.894 um V: 22.252 um

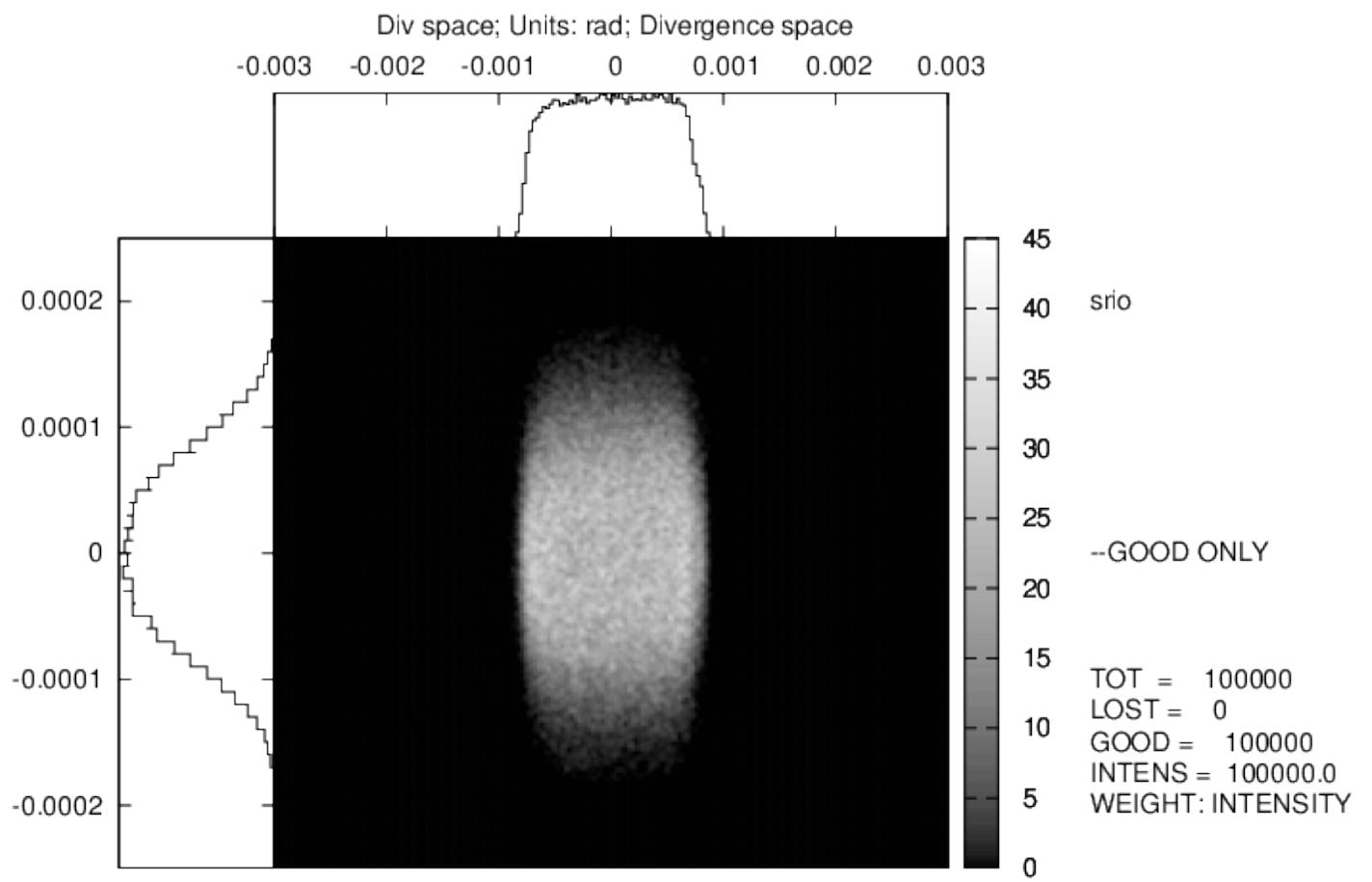


0.3.2. Finite Emittance; magnetic field: 2PAcut; E=10 keV

0.3.2.1. Divergence space

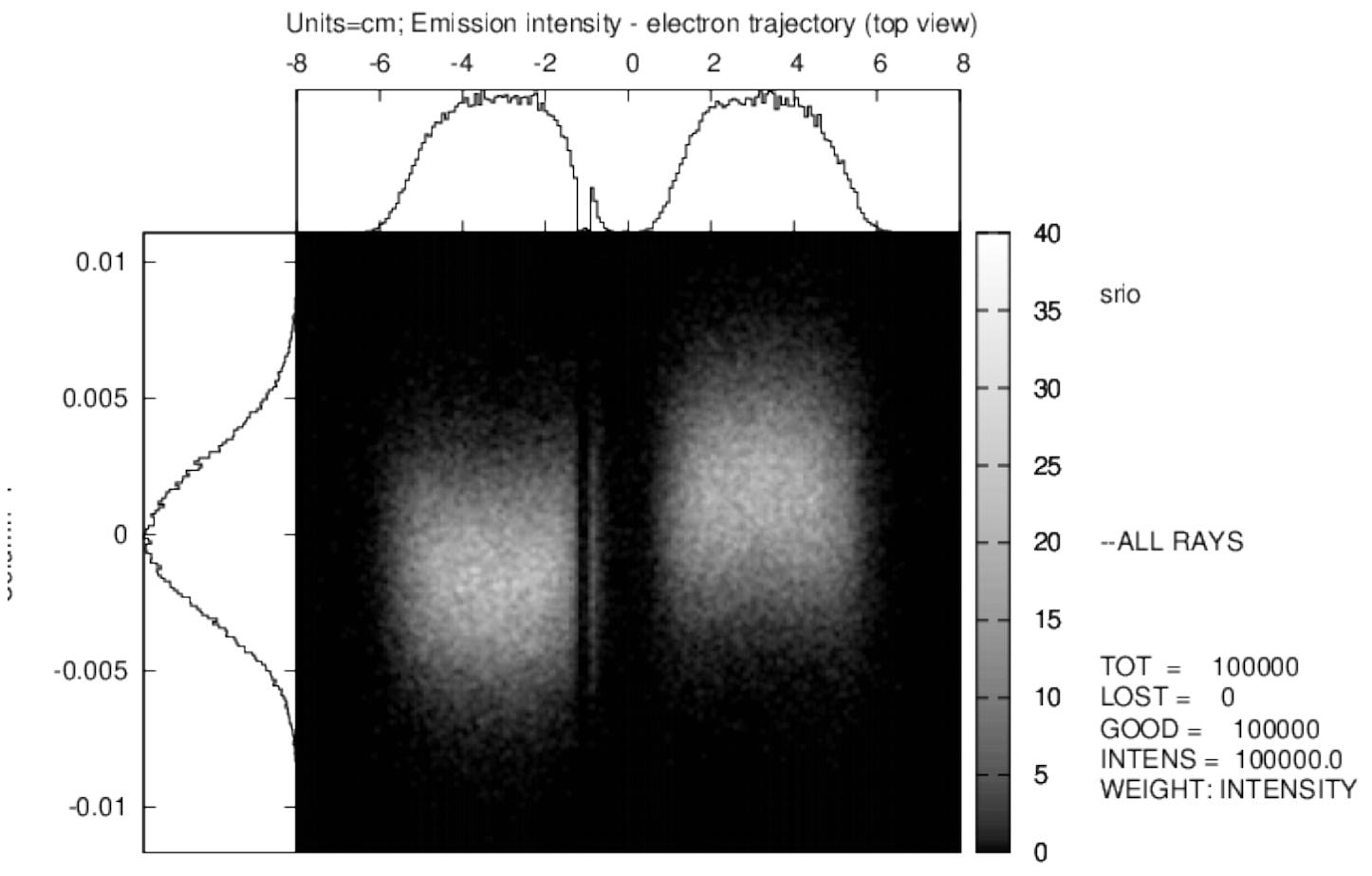
```

FW25M H: 1582.090 urad V: 228.856 urad
FWHM H: 1492.537 urad V: 179.104 urad
FW75M H: 1373.134 urad V: 124.378 urad
  
```



Column 4

0.3.2.2. Emission intensity - electron trajectory (top view)

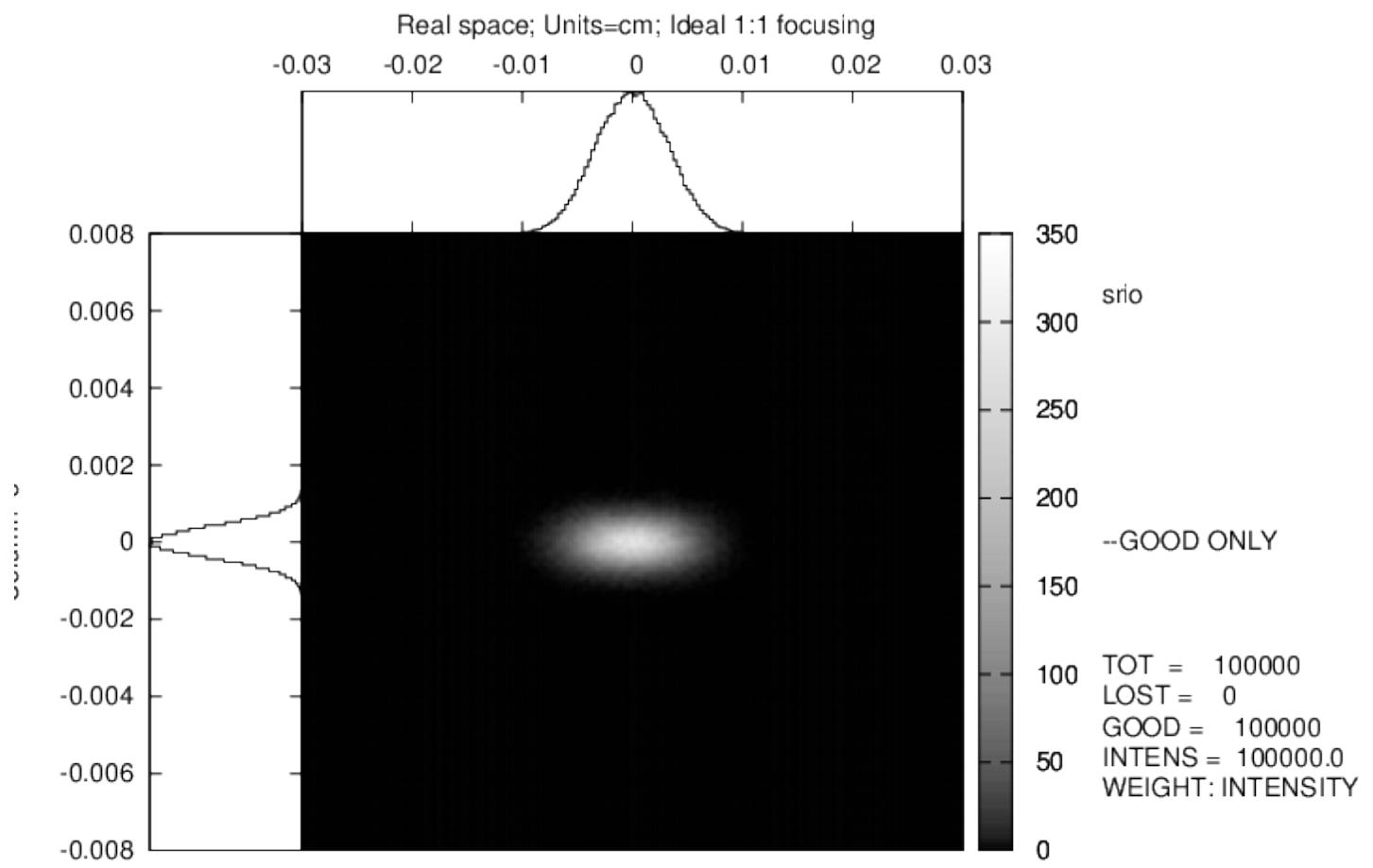


0.3.2.3. Ideal 1:1 focusing

FW25M H: 107.463 um V: 12.736 um

FWHM H: 77.612 um V: 9.552 um

FW75M H: 47.761 um V: 4.776 um



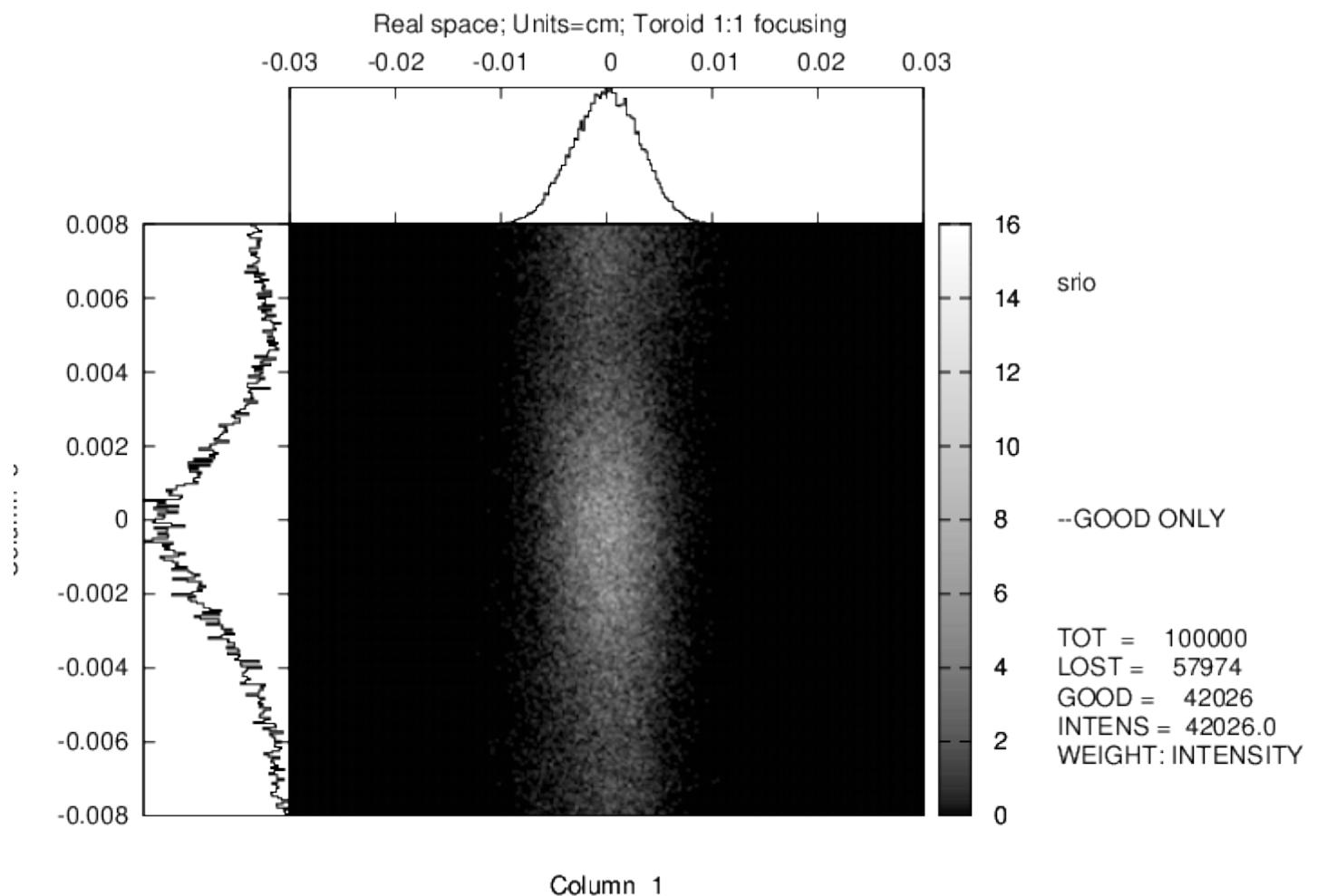
Column 1

0.3.2.4. Toroid 1:1 focusing

FW25M H: 105.648 um V: 154.153 um

FWHM H: 75.748 um V: 61.661 um

FW75M H: 49.834 um V: 29.767 um



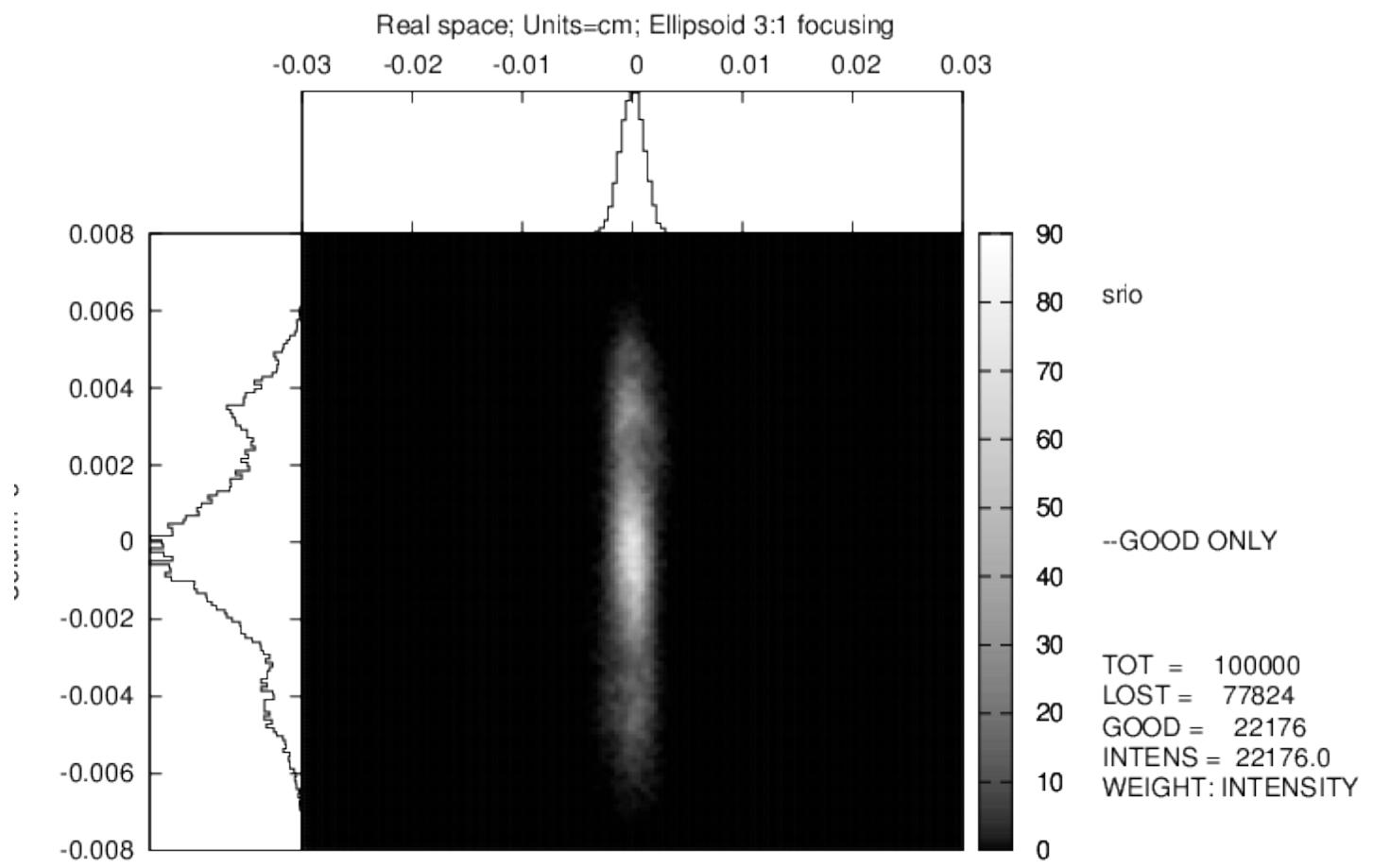
Column 1

0.3.2.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 80.530 um

FWHM H: 23.841 um V: 30.728 um

FW75M H: 15.894 um V: 15.894 um

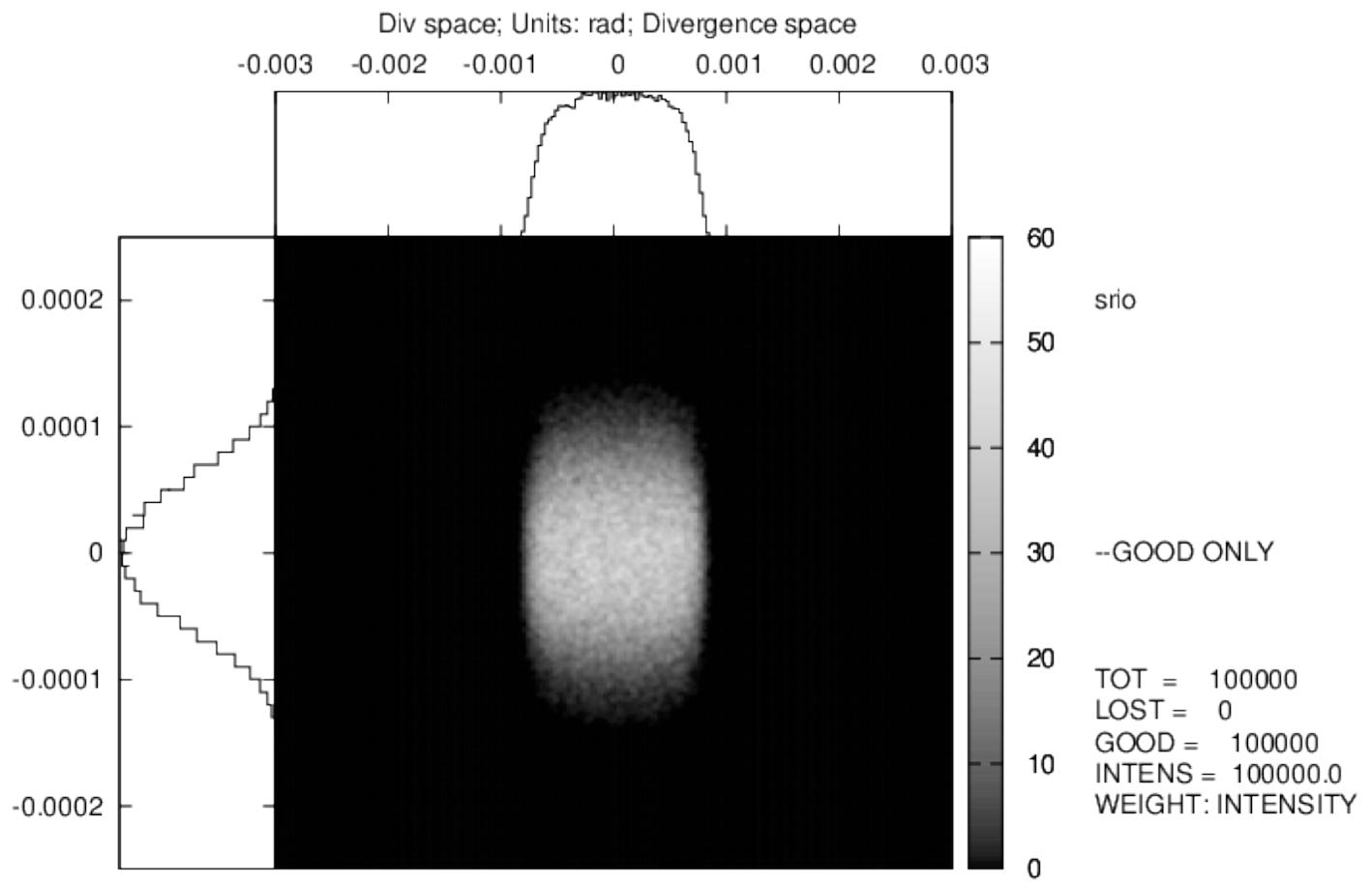


Column 1

0.3.3. Finite Emittance; magnetic field: 2PAcut; E=20 keV

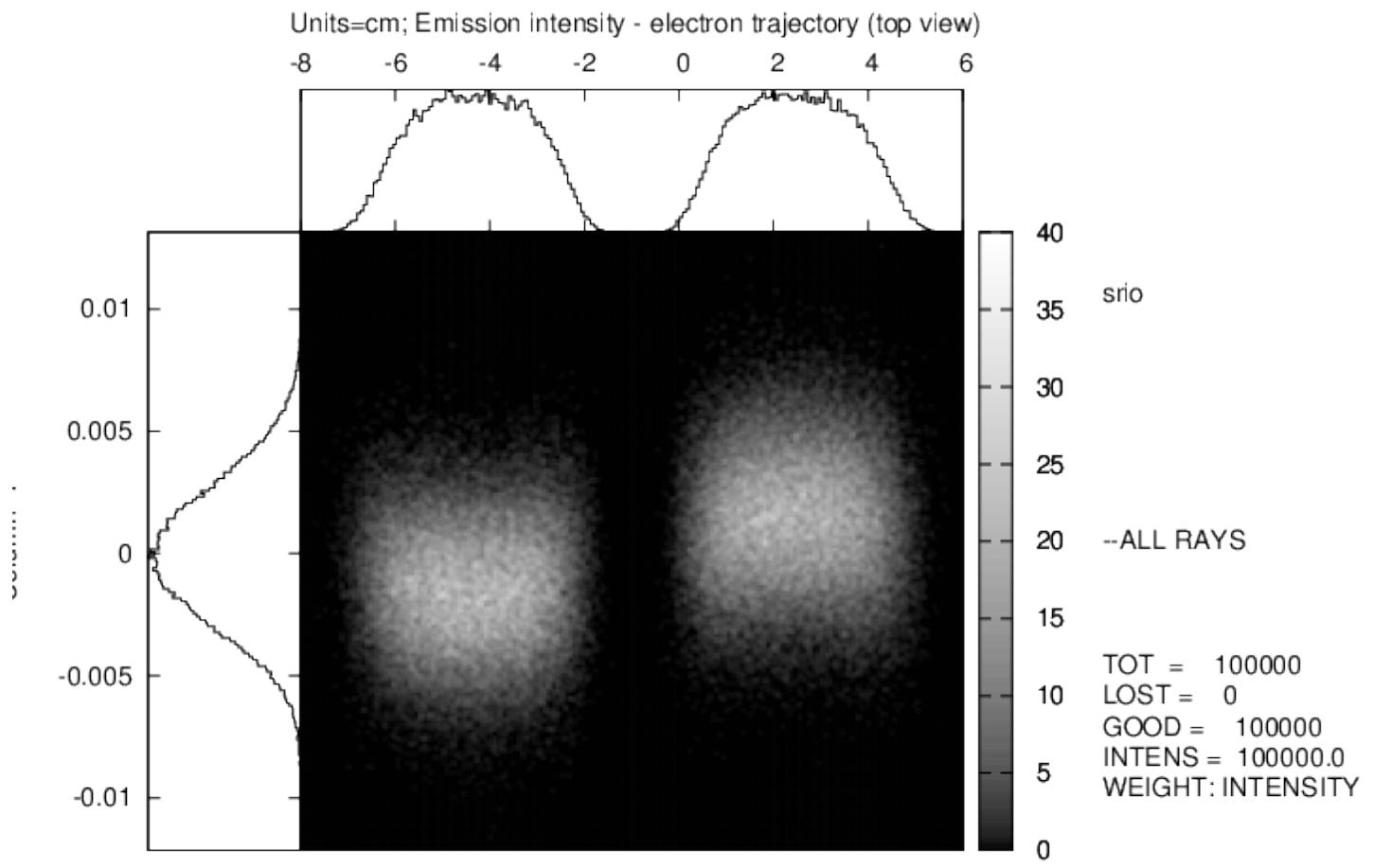
0.3.3.1. Divergence space

FW25M H: 1522.388 urad V: 169.154 urad
 FWHM H: 1402.985 urad V: 129.353 urad
 FW75M H: 1223.881 urad V: 87.065 urad



Column 4

0.3.3.2. Emission intensity - electron trajectory (top view)

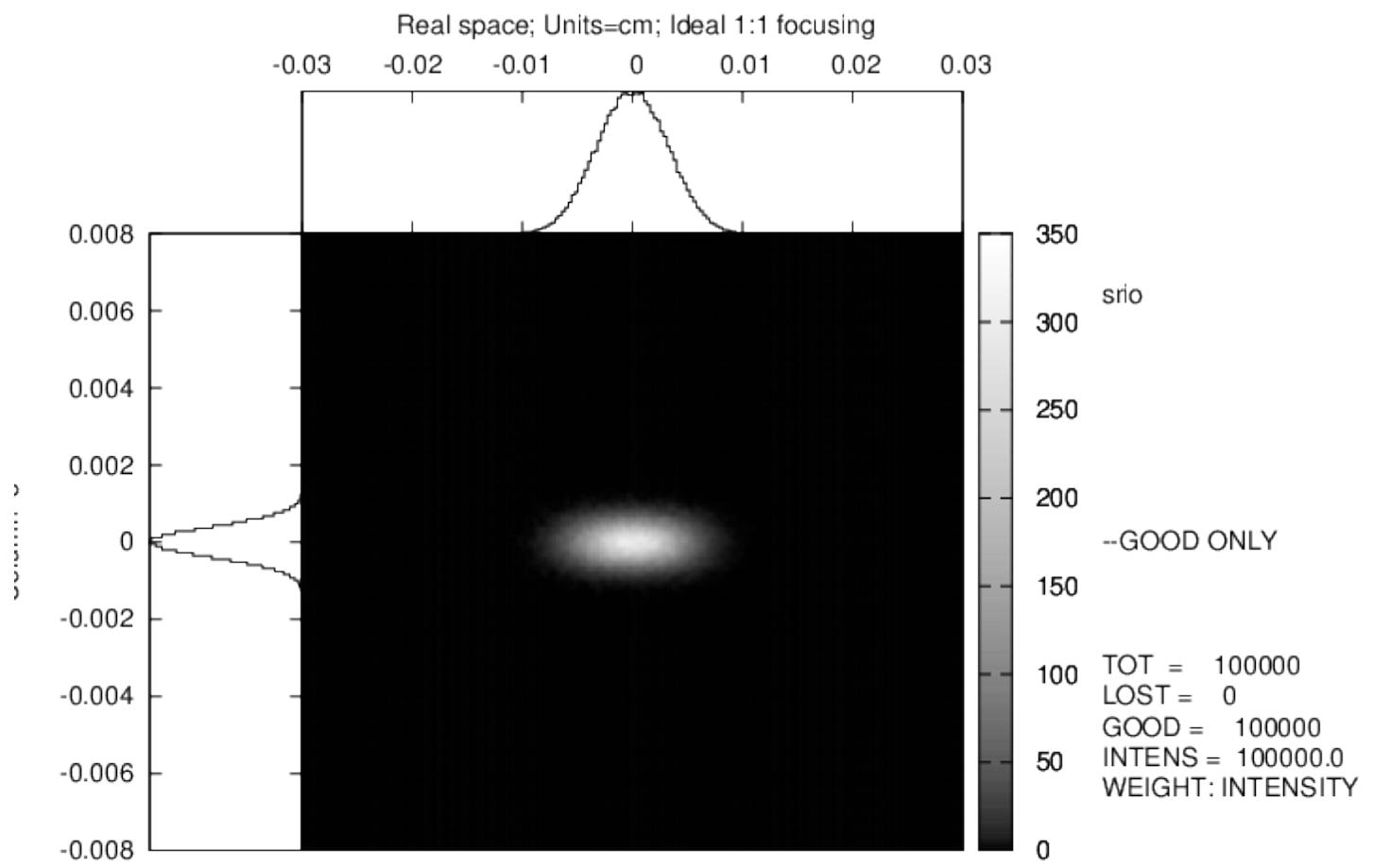


0.3.3.3. Ideal 1:1 focusing

FW25M H: 107.463 um V: 12.736 um

FWHM H: 77.612 um V: 7.960 um

FW75M H: 47.761 um V: 4.776 um



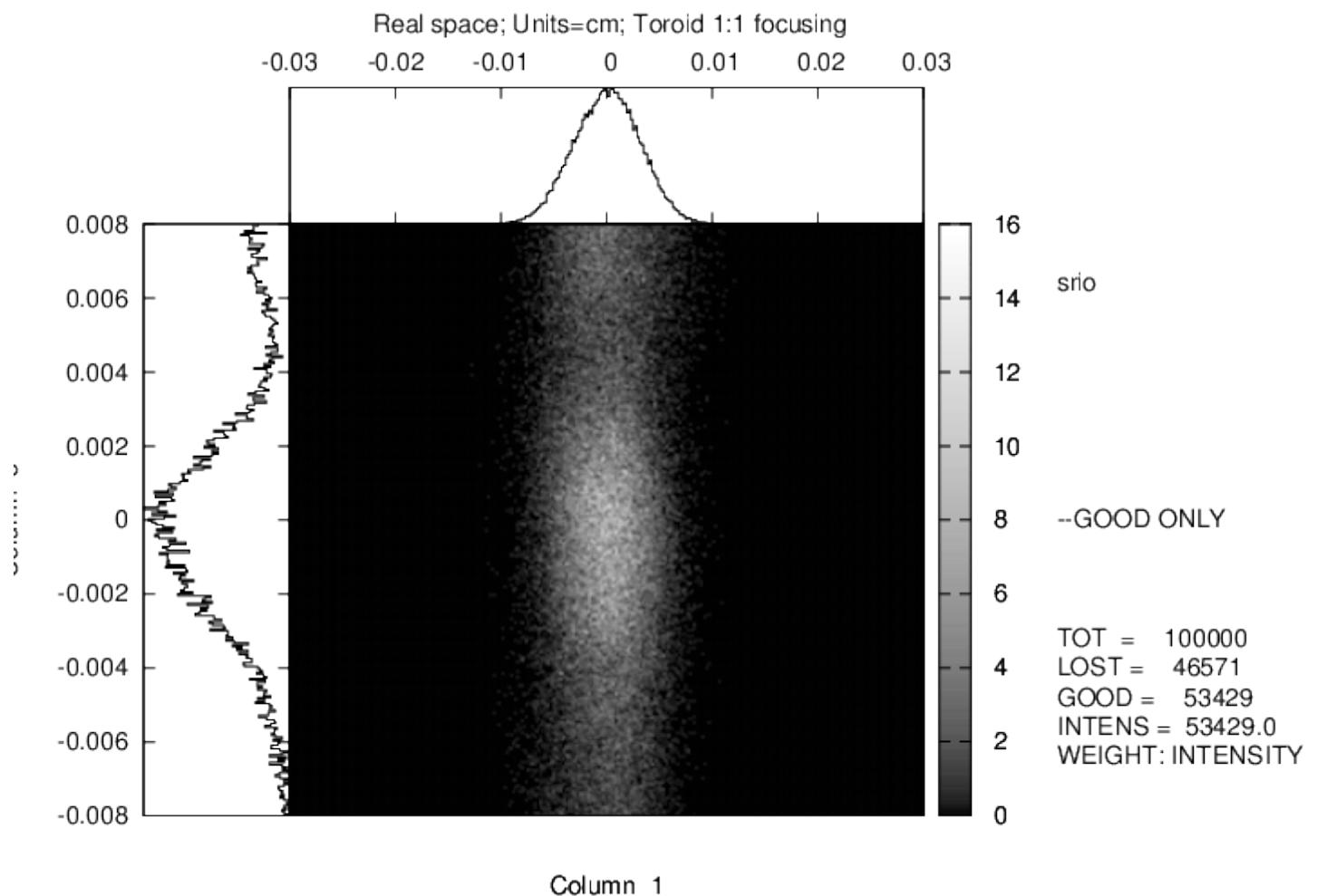
Column 1

0.3.3.4. Toroid 1:1 focusing

FW25M H: 101.661 um V: 148.837 um

FWHM H: 73.754 um V: 58.472 um

FW75M H: 45.847 um V: 35.083 um

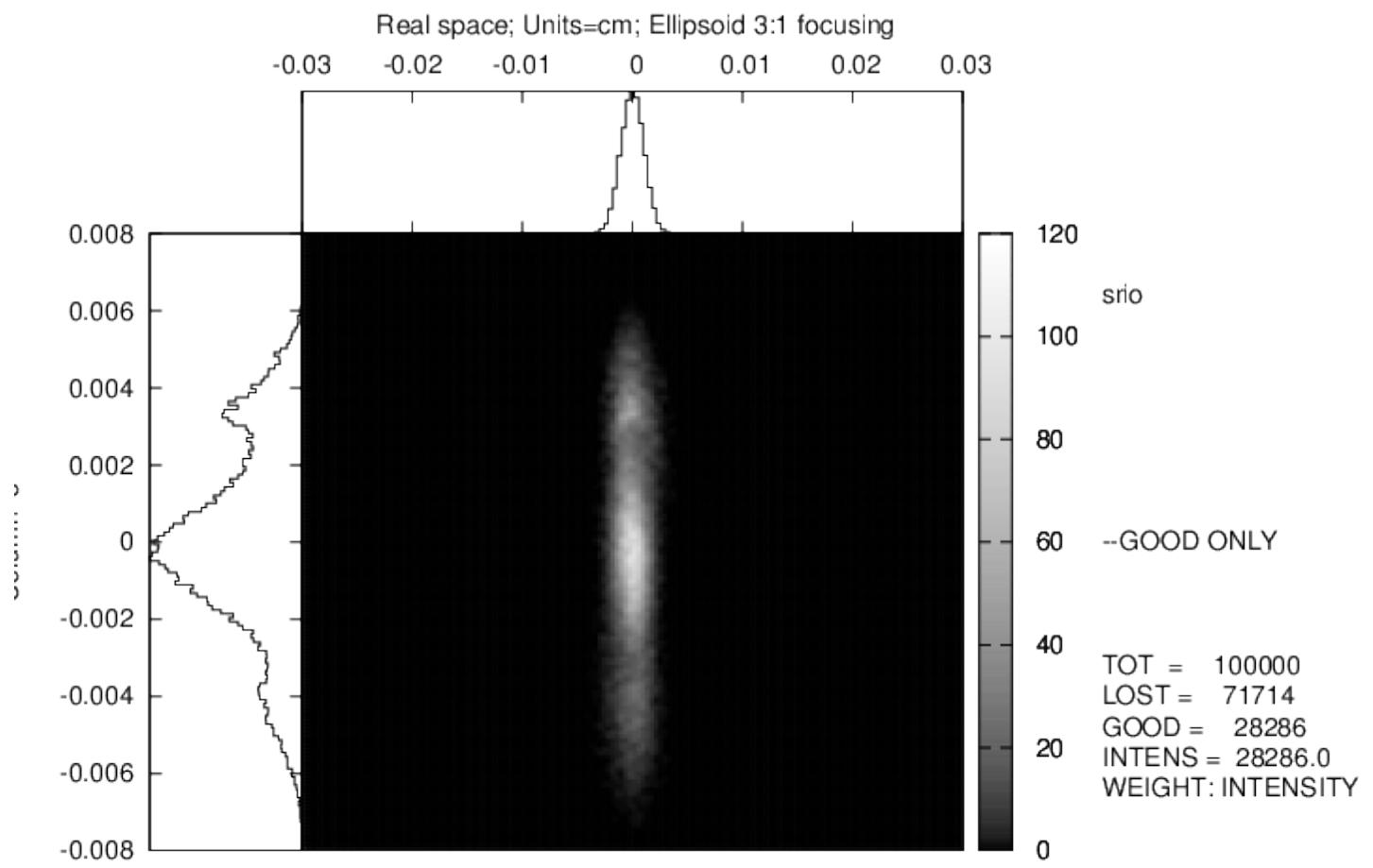


0.3.3.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 81.589 um

FWHM H: 23.841 um V: 51.921 um

FW75M H: 11.921 um V: 16.954 um

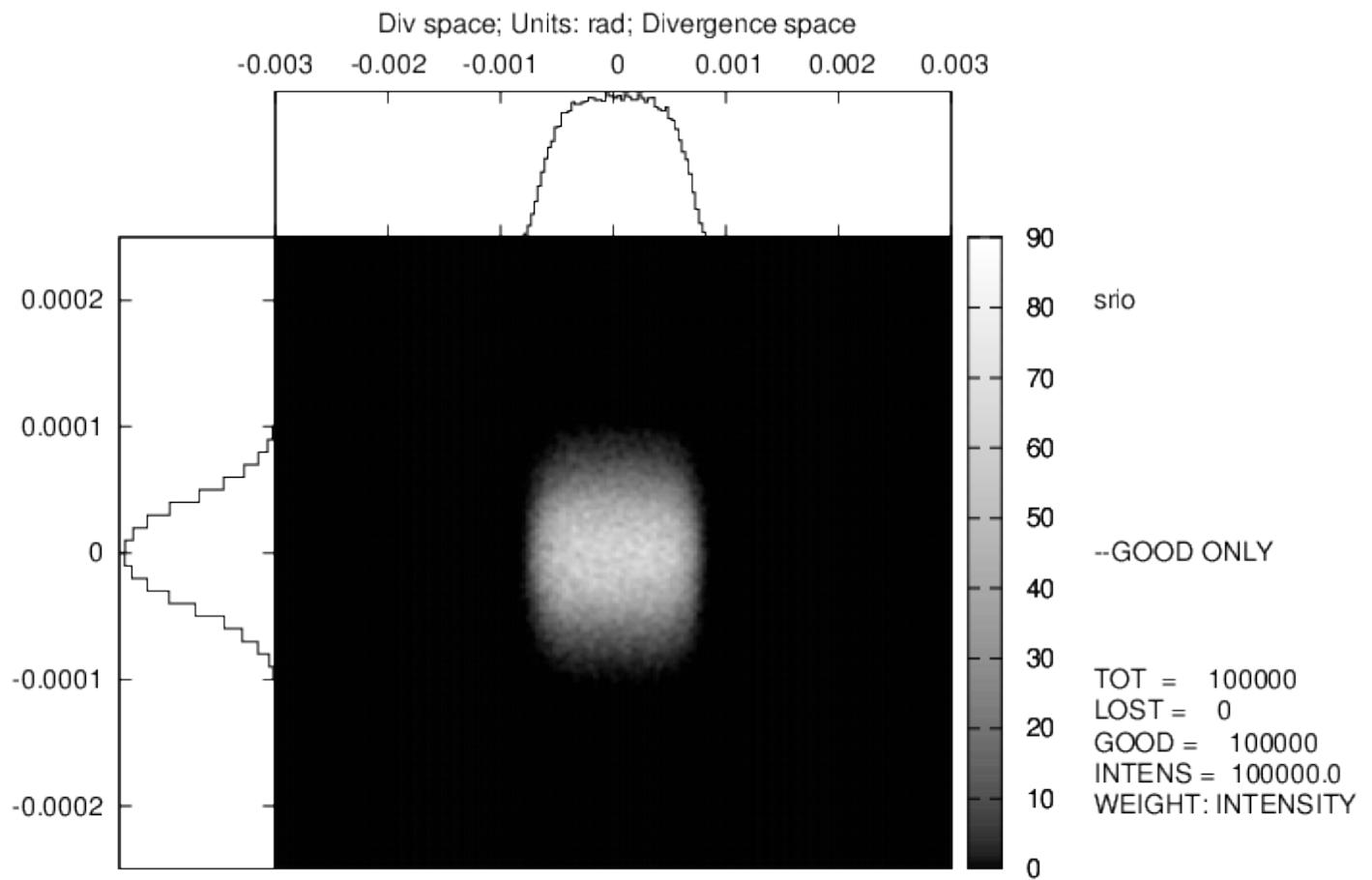


Column 1

0.3.4. Finite Emittance; magnetic field: 2PAcut; E=40 keV

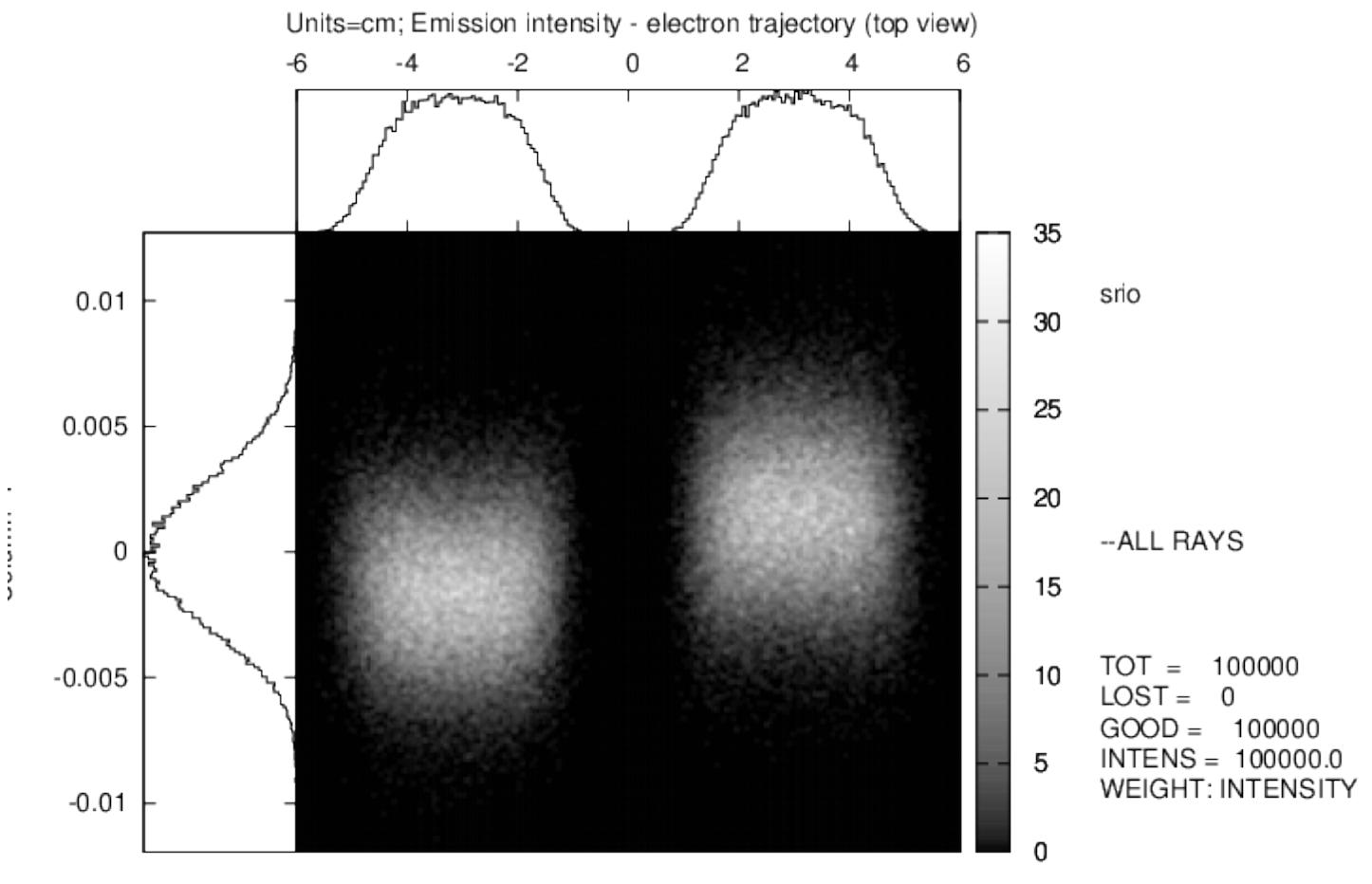
0.3.4.1. Divergence space

FW25M H: 1373.134 urad V: 119.403 urad
 FWHM H: 1253.731 urad V: 87.065 urad
 FW75M H: 1044.776 urad V: 57.214 urad



Column 4

0.3.4.2. Emission intensity - electron trajectory (top view)



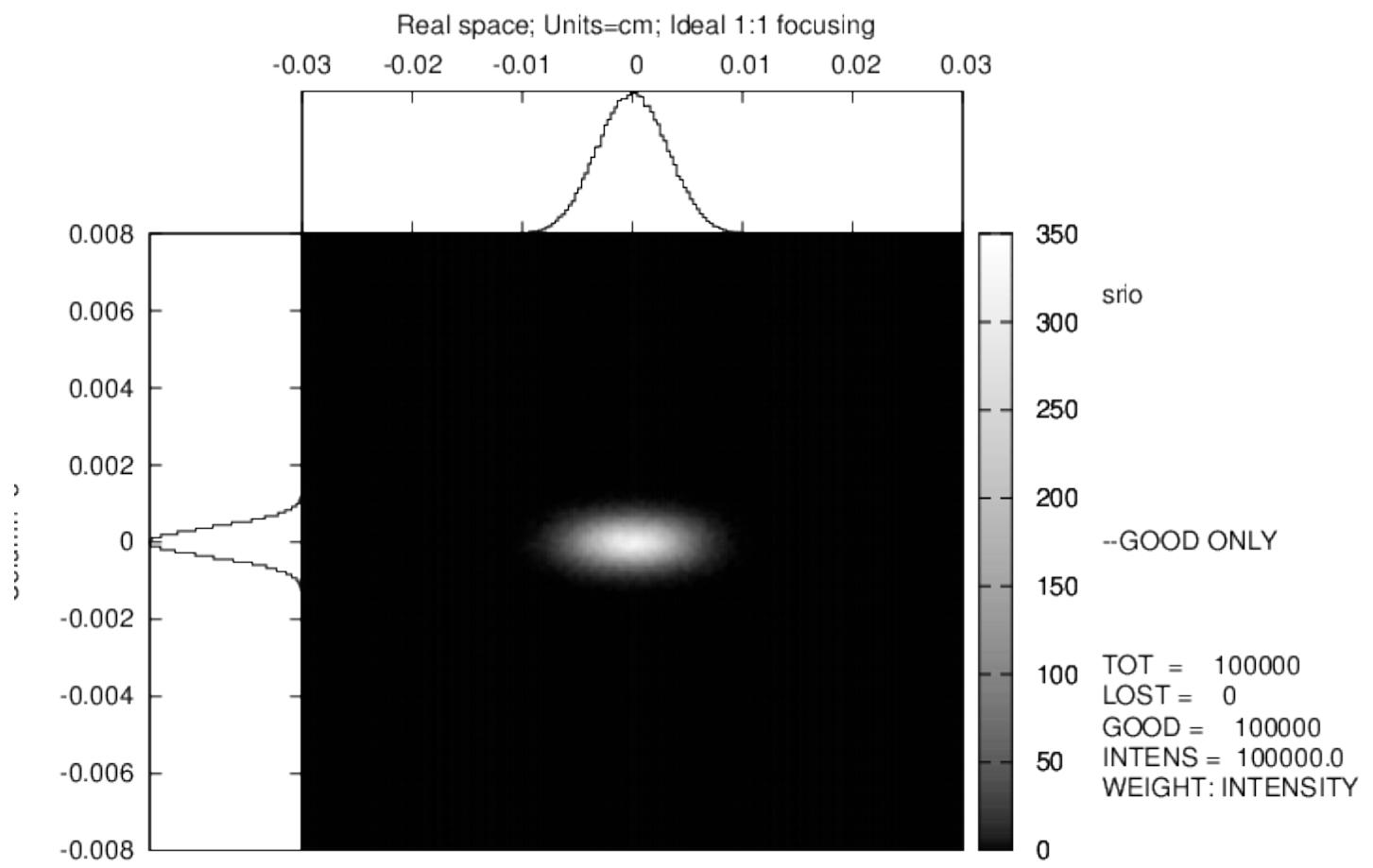
Column 2

0.3.4.3. Ideal 1:1 focusing

FW25M H: 101.493 um V: 11.144 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 47.761 um V: 4.776 um



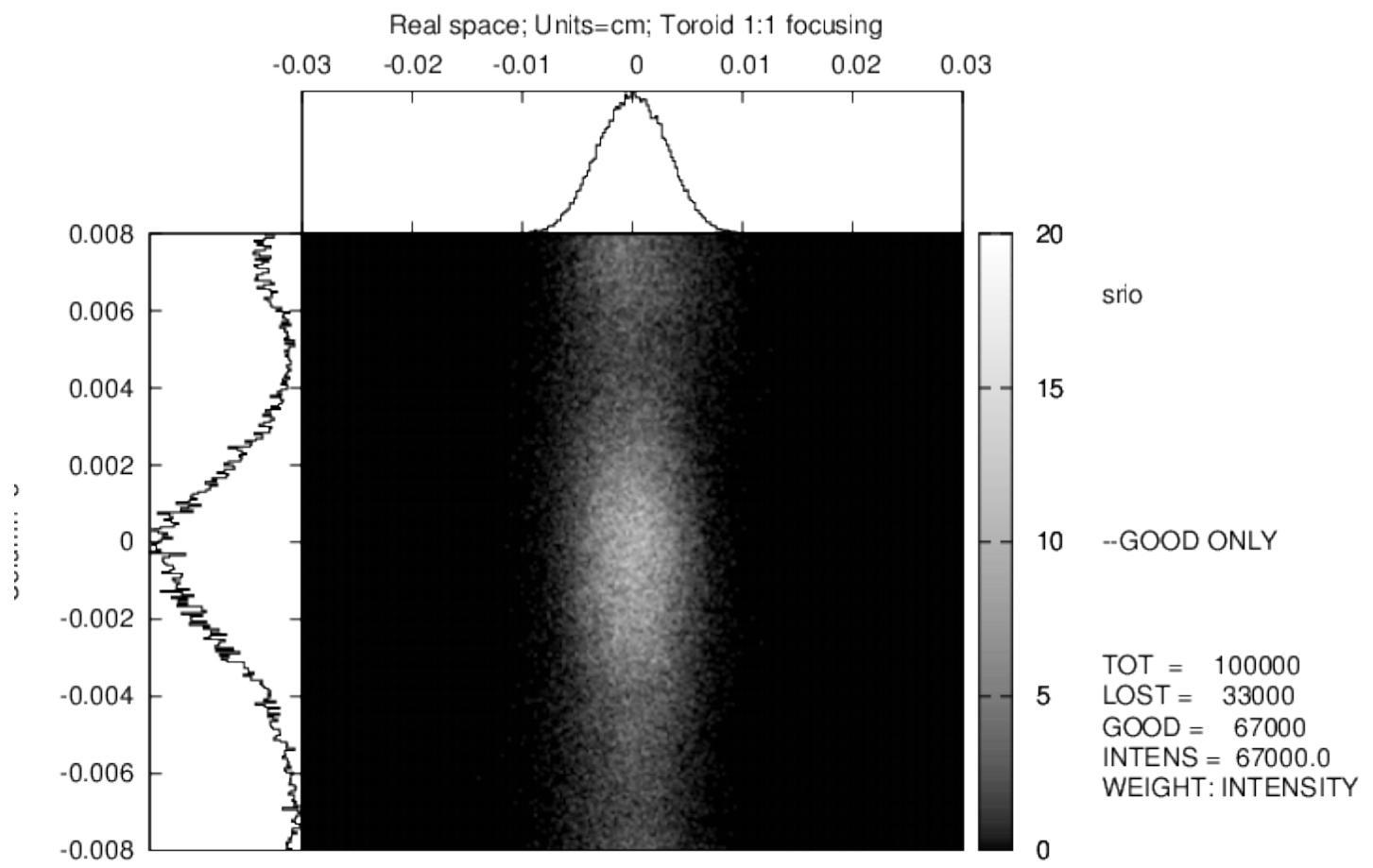
Column 1

0.3.4.4. Toroid 1:1 focusing

FW25M H: 101.661 um V: 148.837 um

FWHM H: 75.748 um V: 55.282 um

FW75M H: 45.847 um V: 33.488 um



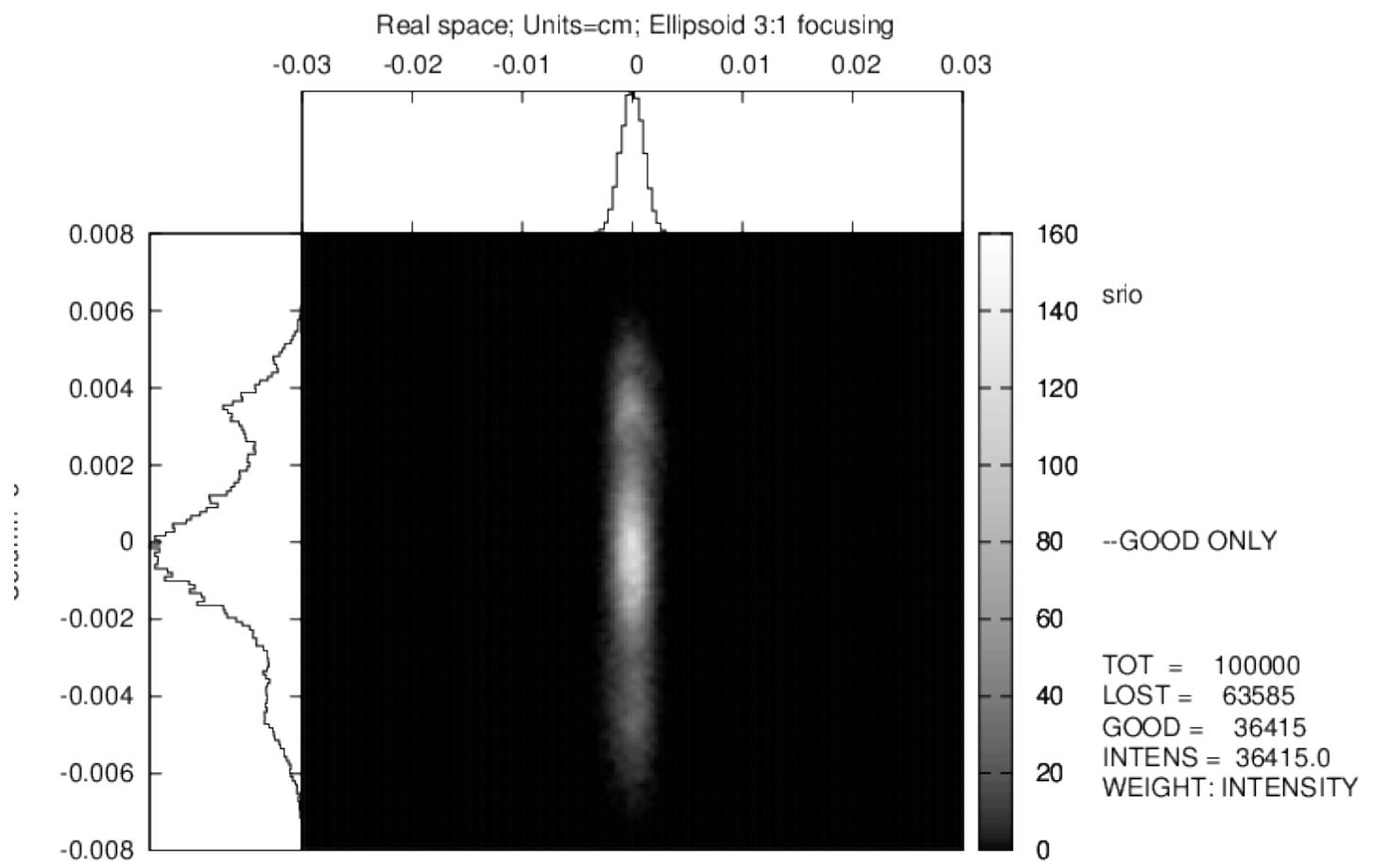
Column 1

0.3.4.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 75.232 um

FWHM H: 23.841 um V: 52.980 um

FW75M H: 15.894 um V: 14.834 um



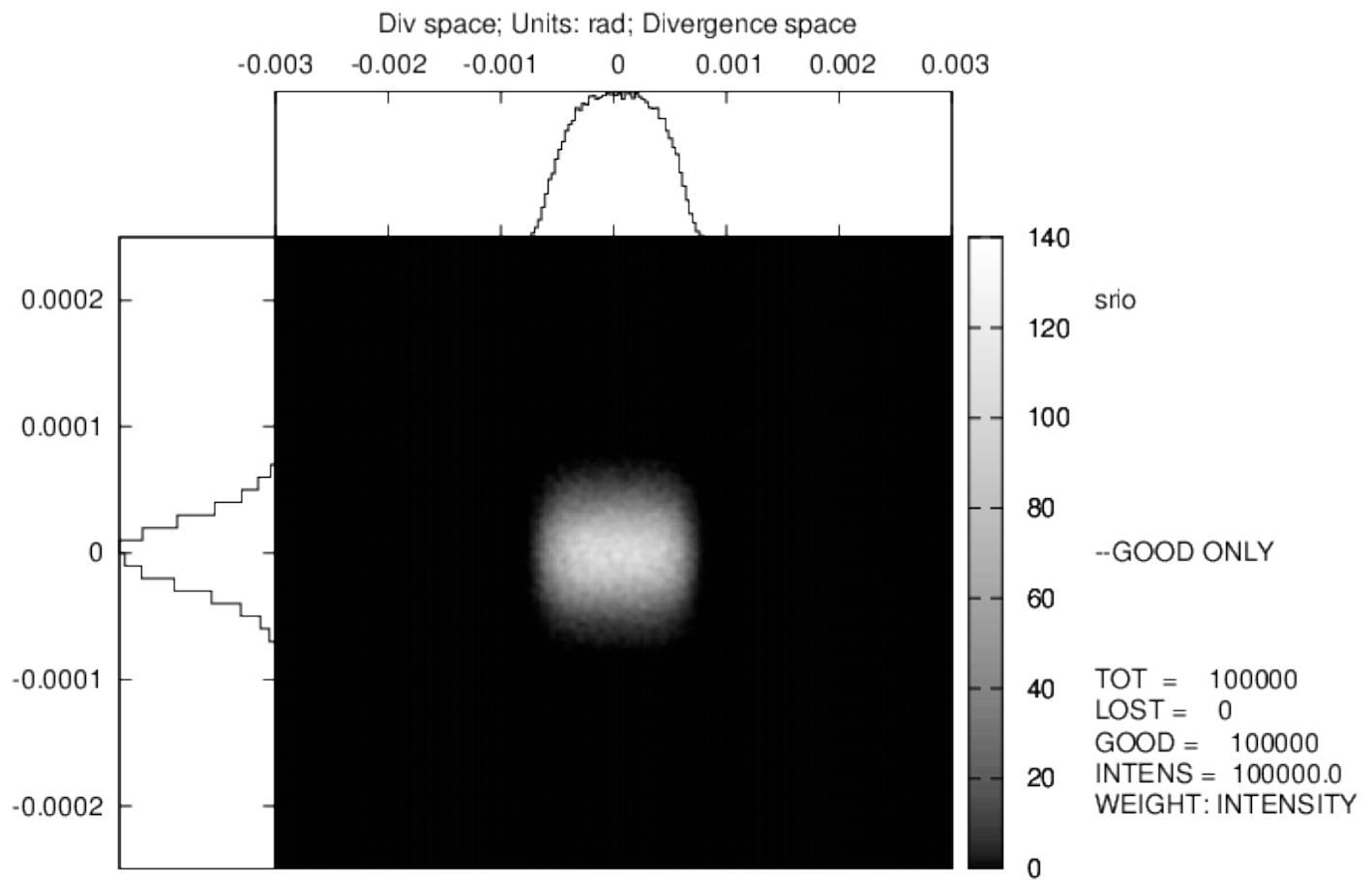
Column 1

0.3.5. Finite Emittance; magnetic field: 2PAcut; E=80 keV

0.3.5.1. Divergence space

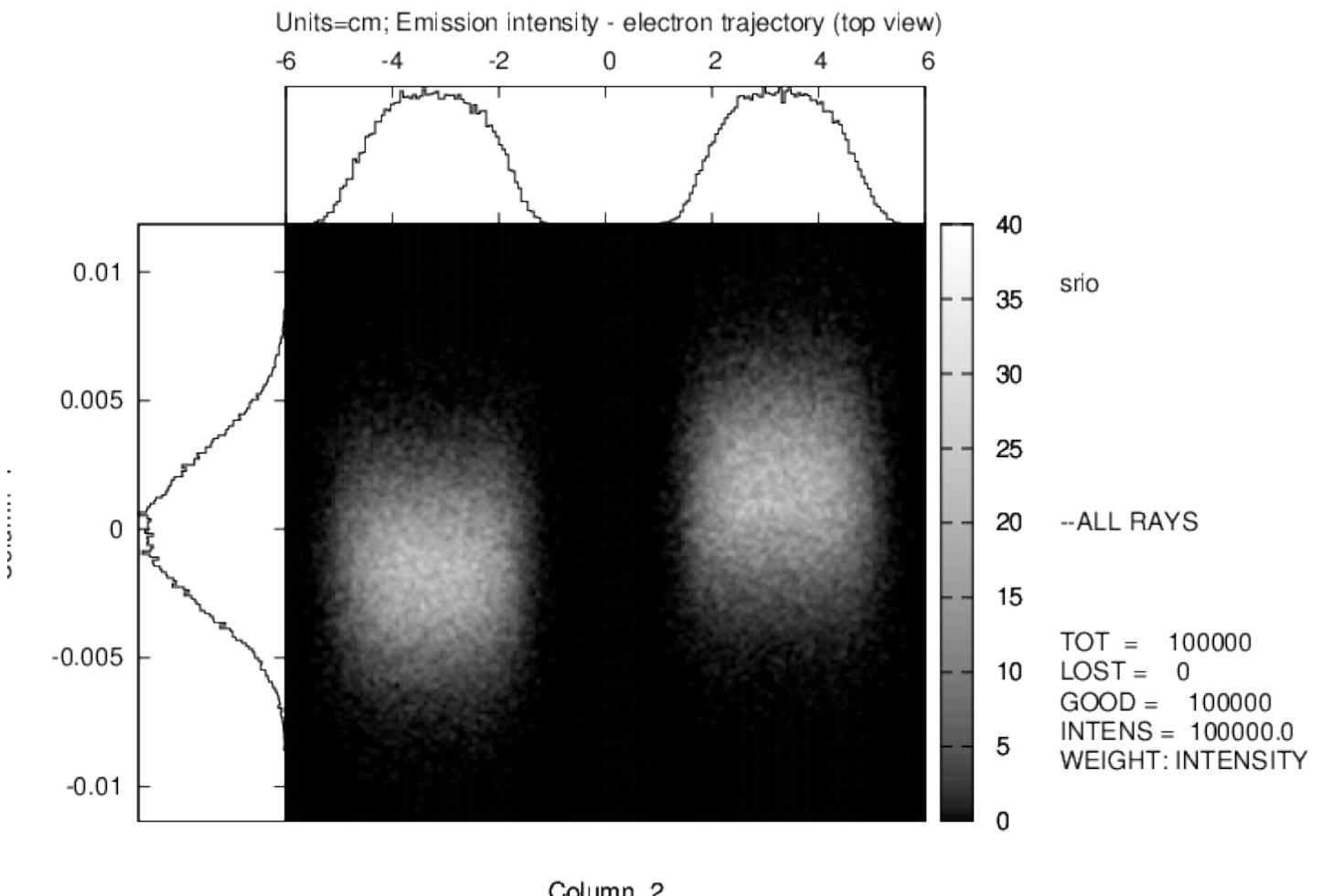
```

FW25M H: 1253.731 urad V: 84.577 urad
FWHM H: 1074.627 urad V: 59.701 urad
FW75M H: 835.821 urad V: 37.313 urad
  
```



Column 4

0.3.5.2. Emission intensity - electron trajectory (top view)

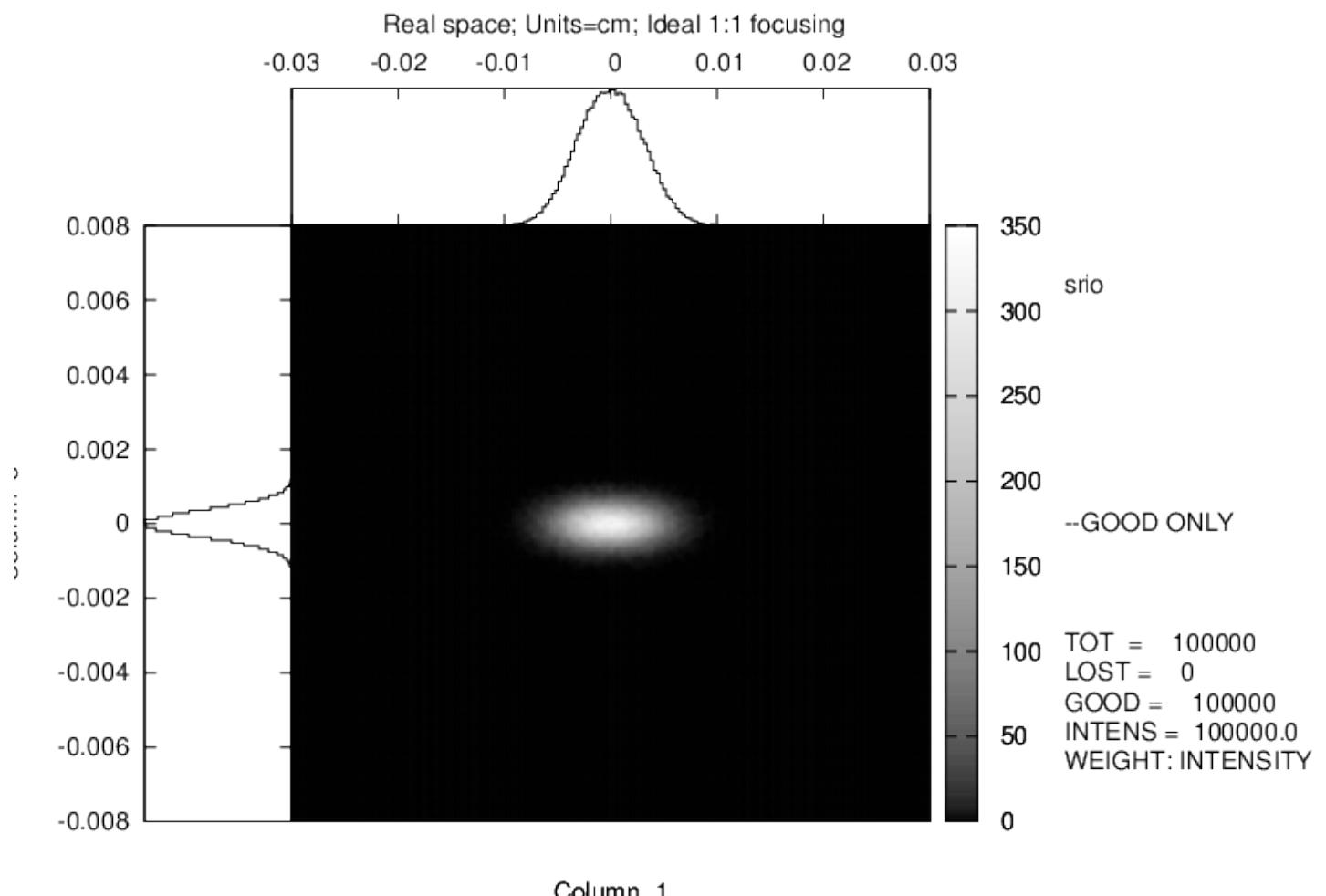


0.3.5.3. Ideal 1:1 focusing

FW25M H: 101.493 um V: 11.144 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 47.761 um V: 4.776 um

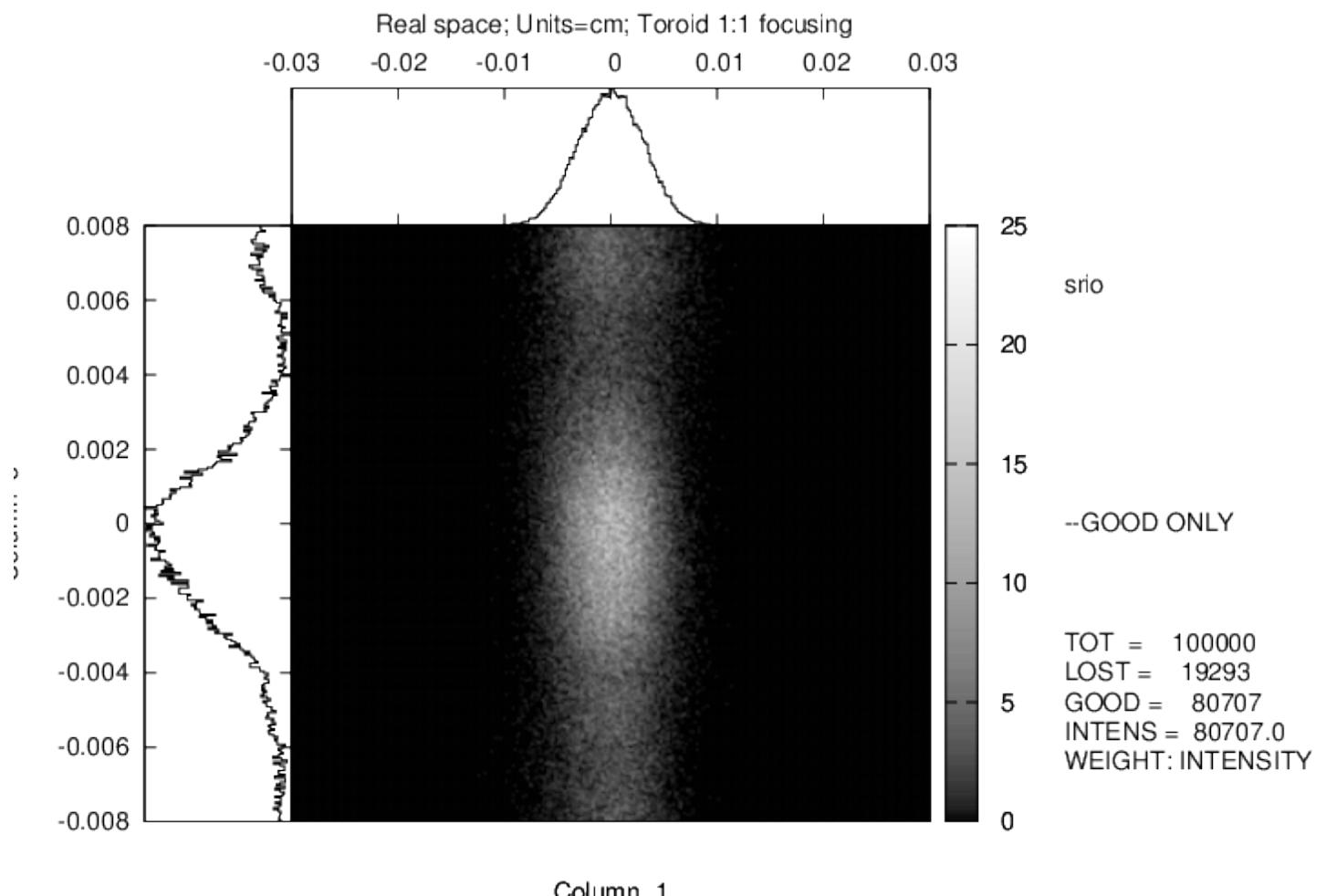


0.3.5.4. Toroid 1:1 focusing

FW25M H: 99.668 um V: 156.279 um

FWHM H: 69.767 um V: 53.688 um

FW75M H: 39.867 um V: 34.020 um

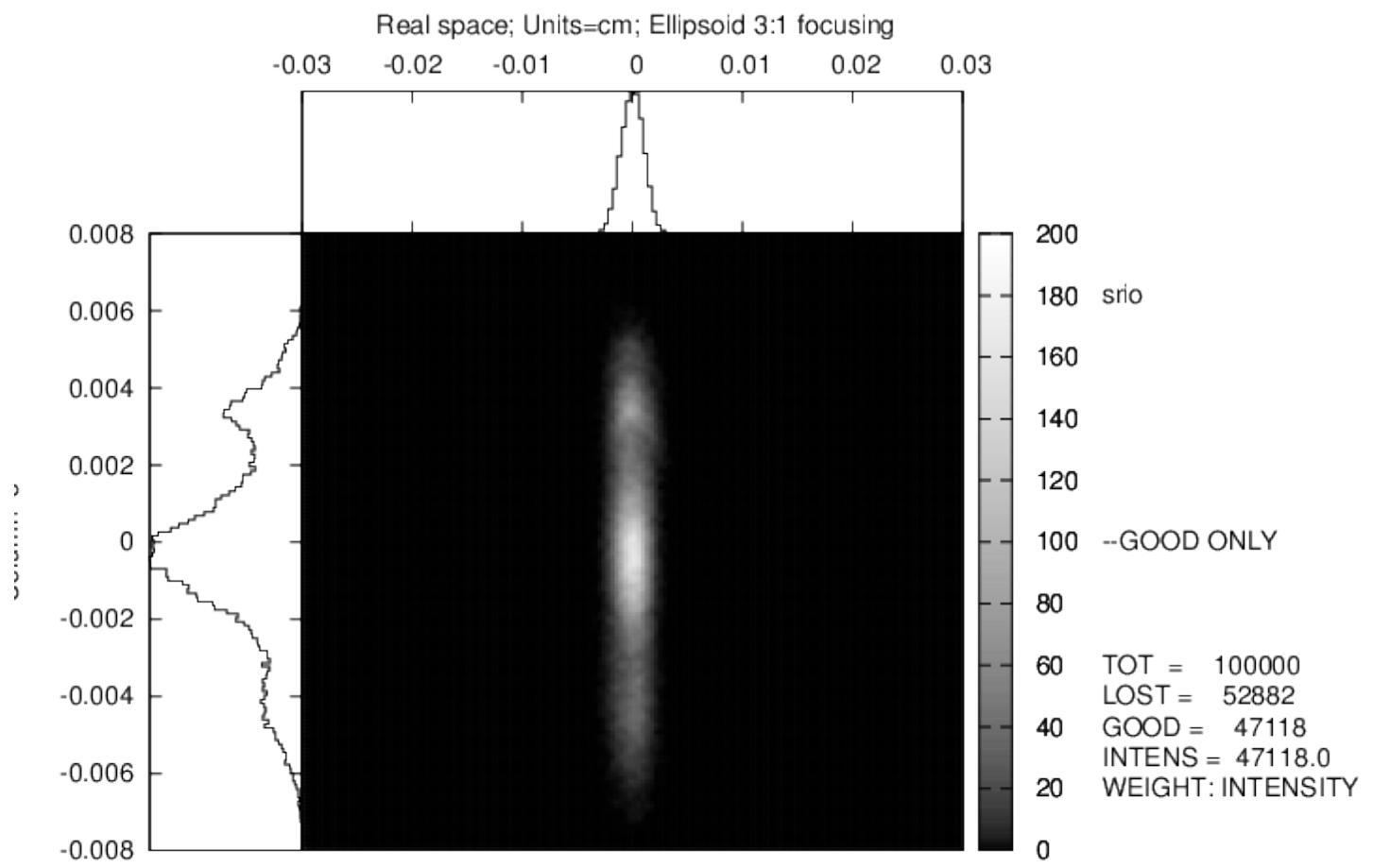


0.3.5.5. Ellipsoid 3:1 focusing

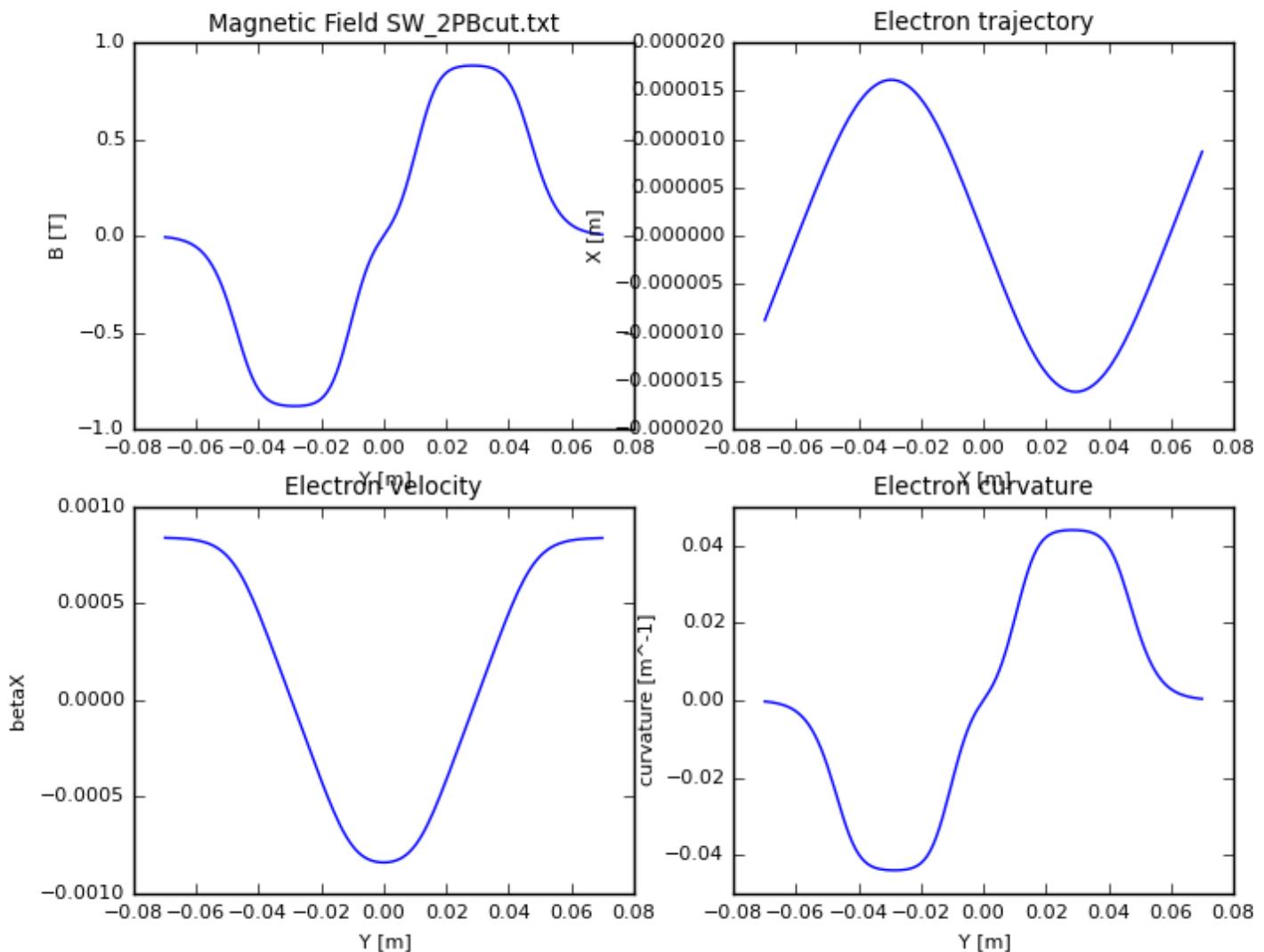
FW25M H: 31.788 um V: 86.887 um

FWHM H: 23.841 um V: 50.861 um

FW75M H: 11.921 um V: 16.954 um



0.4. Finite Emittance; magnetic field: 2PBcut



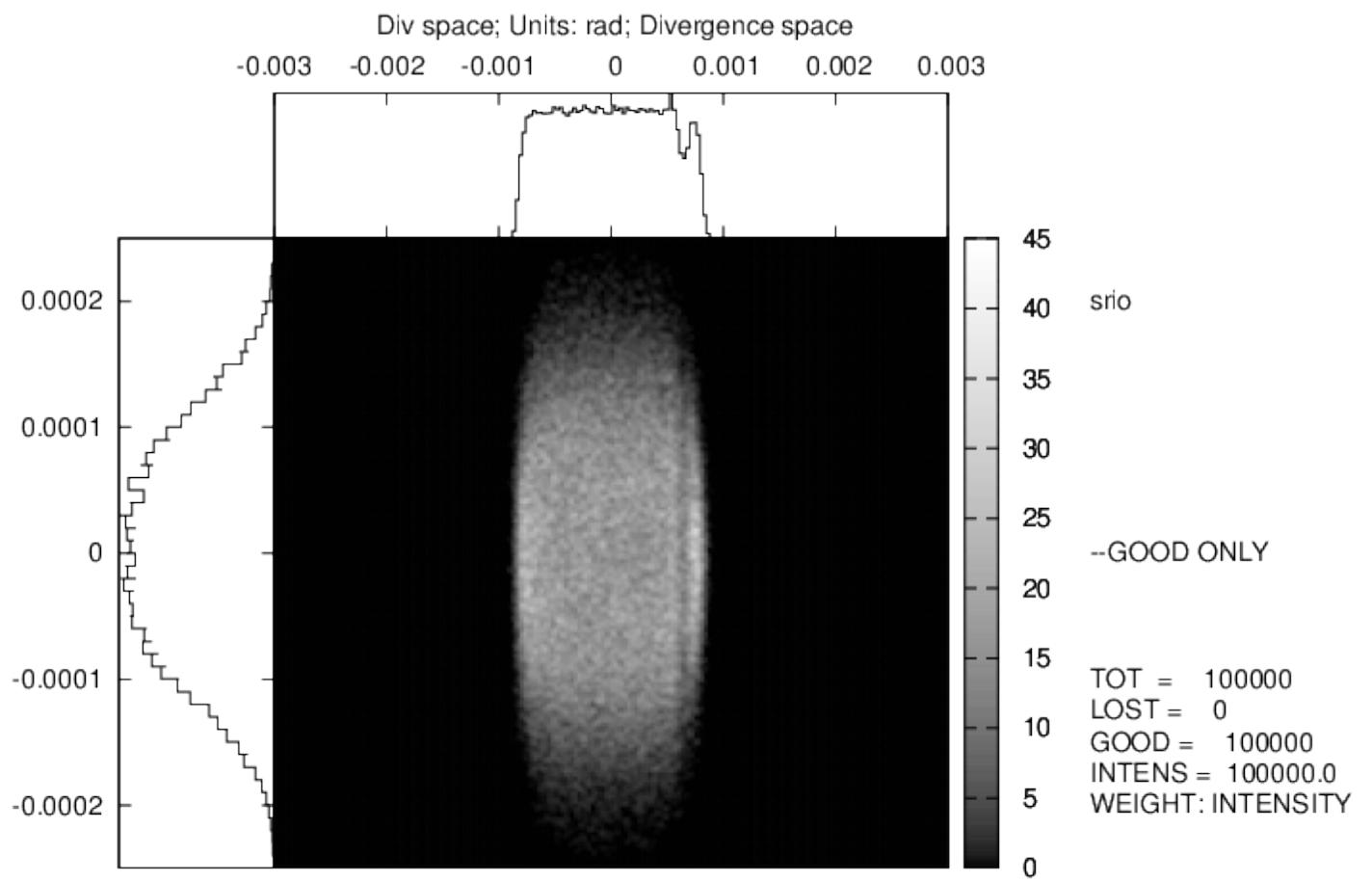
0.4.1. Finite Emittance; magnetic field: 2PBcut; E=5 keV

0.4.1.1. Divergence space

FW25M H: 1641.791 urad V: 296.020 urad

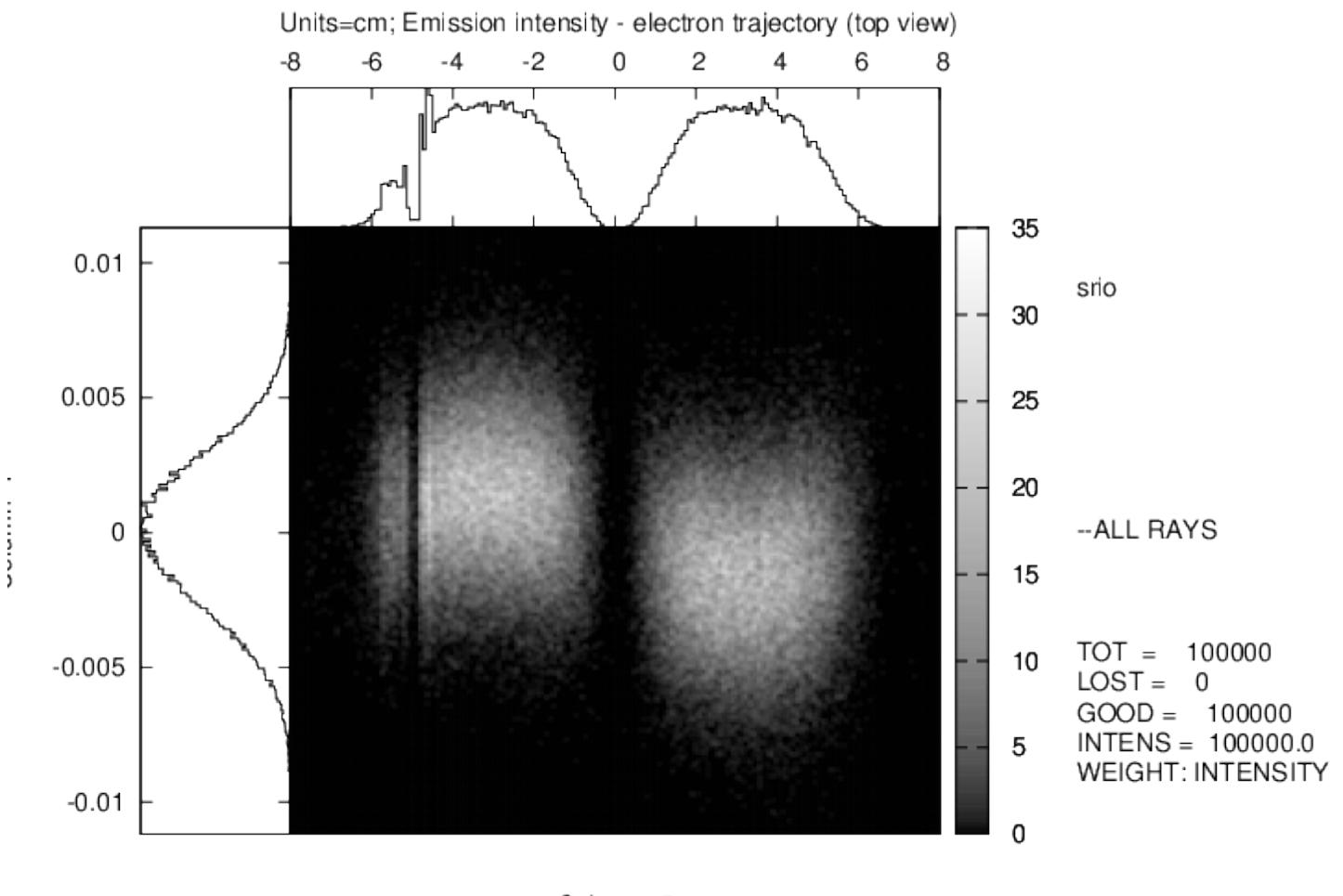
FWHM H: 1582.090 urad V: 238.806 urad

FW75M H: 1492.537 urad V: 171.642 urad



Column 4

0.4.1.2. Emission intensity - electron trajectory (top view)



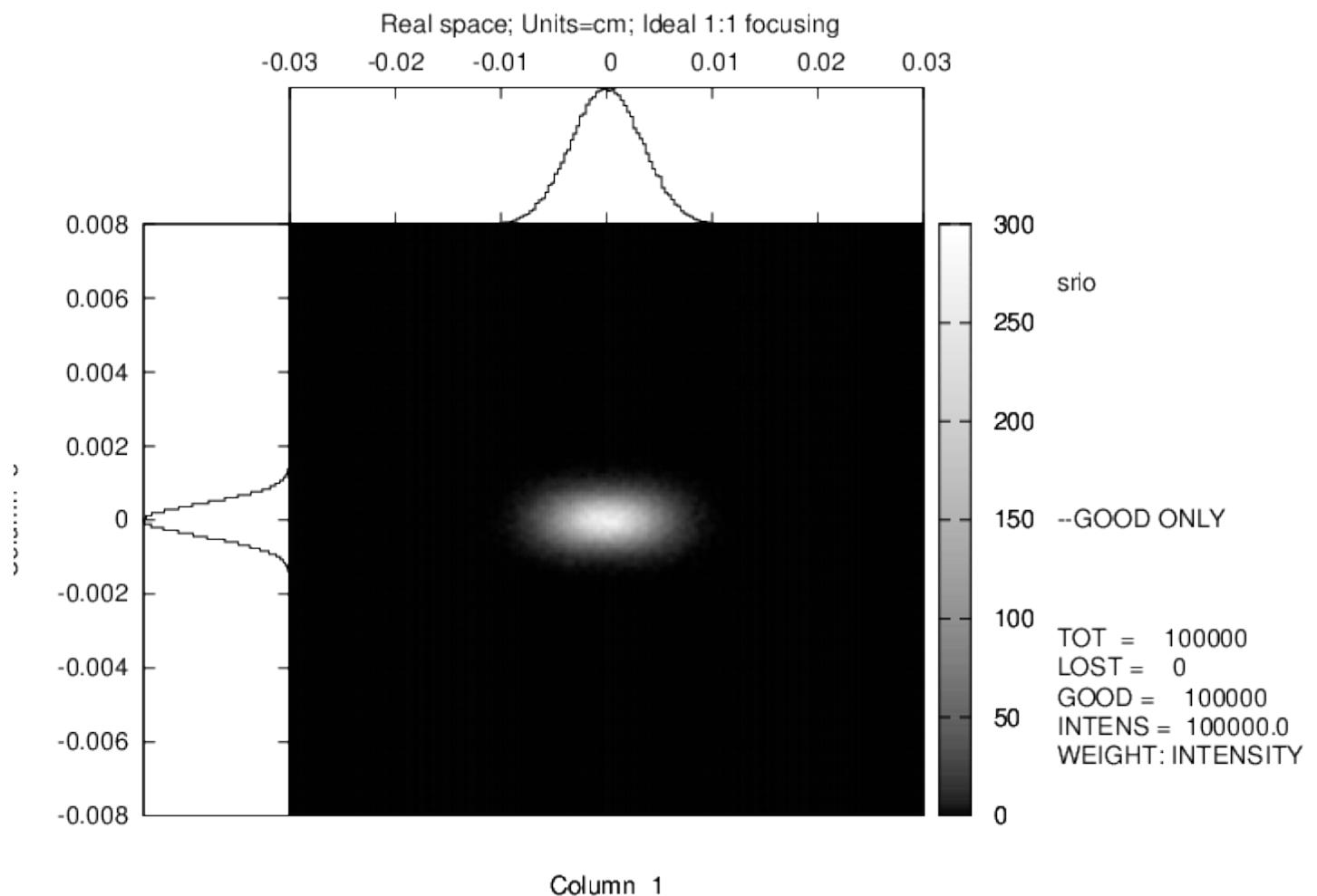
Column 2

0.4.1.3. Ideal 1:1 focusing

FW25M H: 107.463 um V: 14.328 um

FWHM H: 77.612 um V: 9.552 um

FW75M H: 47.761 um V: 6.368 um



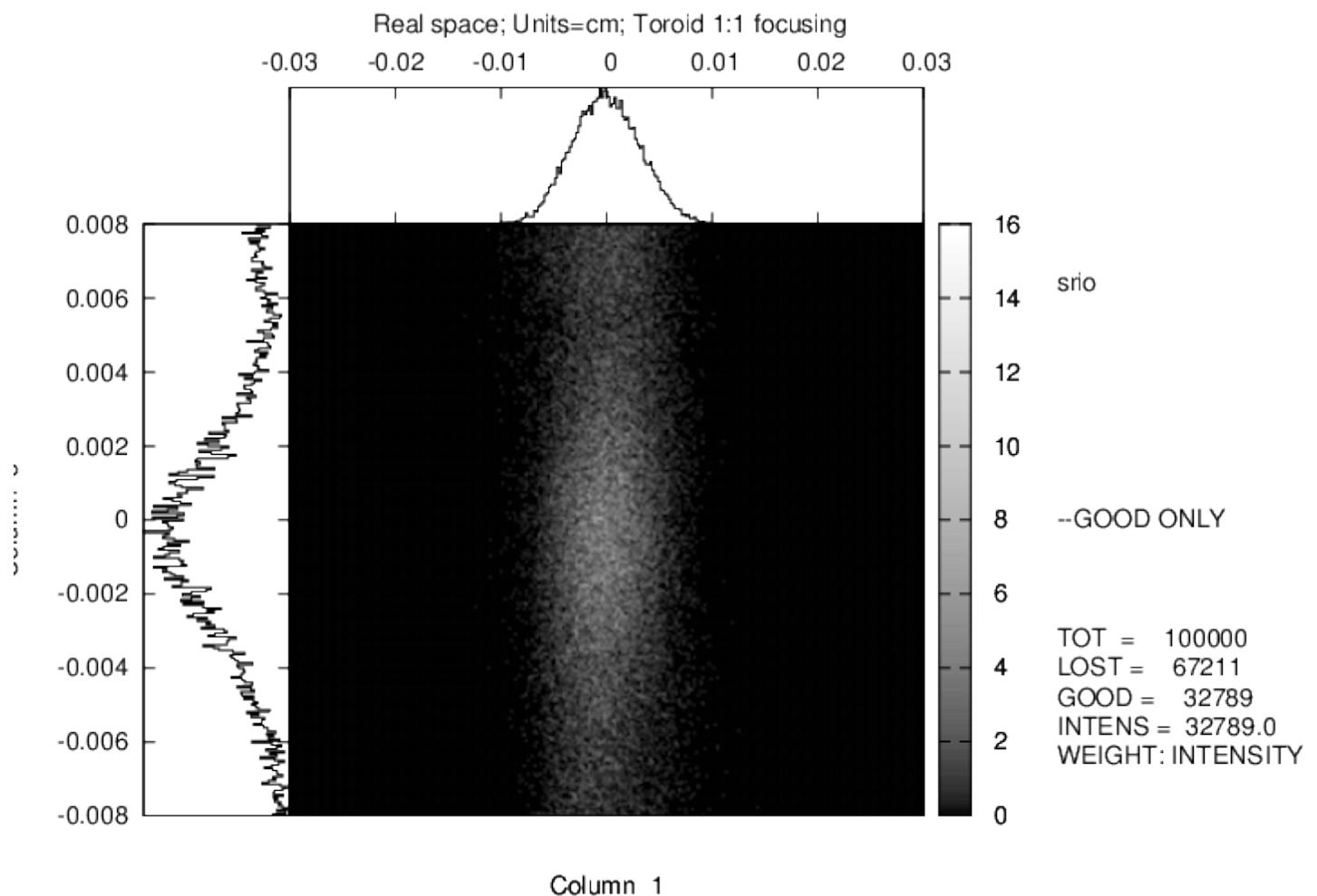
Column 1

0.4.1.4. Toroid 1:1 focusing

FW25M H: 105.648 um V: 159.468 um

FWHM H: 71.761 um V: 70.166 um

FW75M H: 43.854 um V: 39.336 um

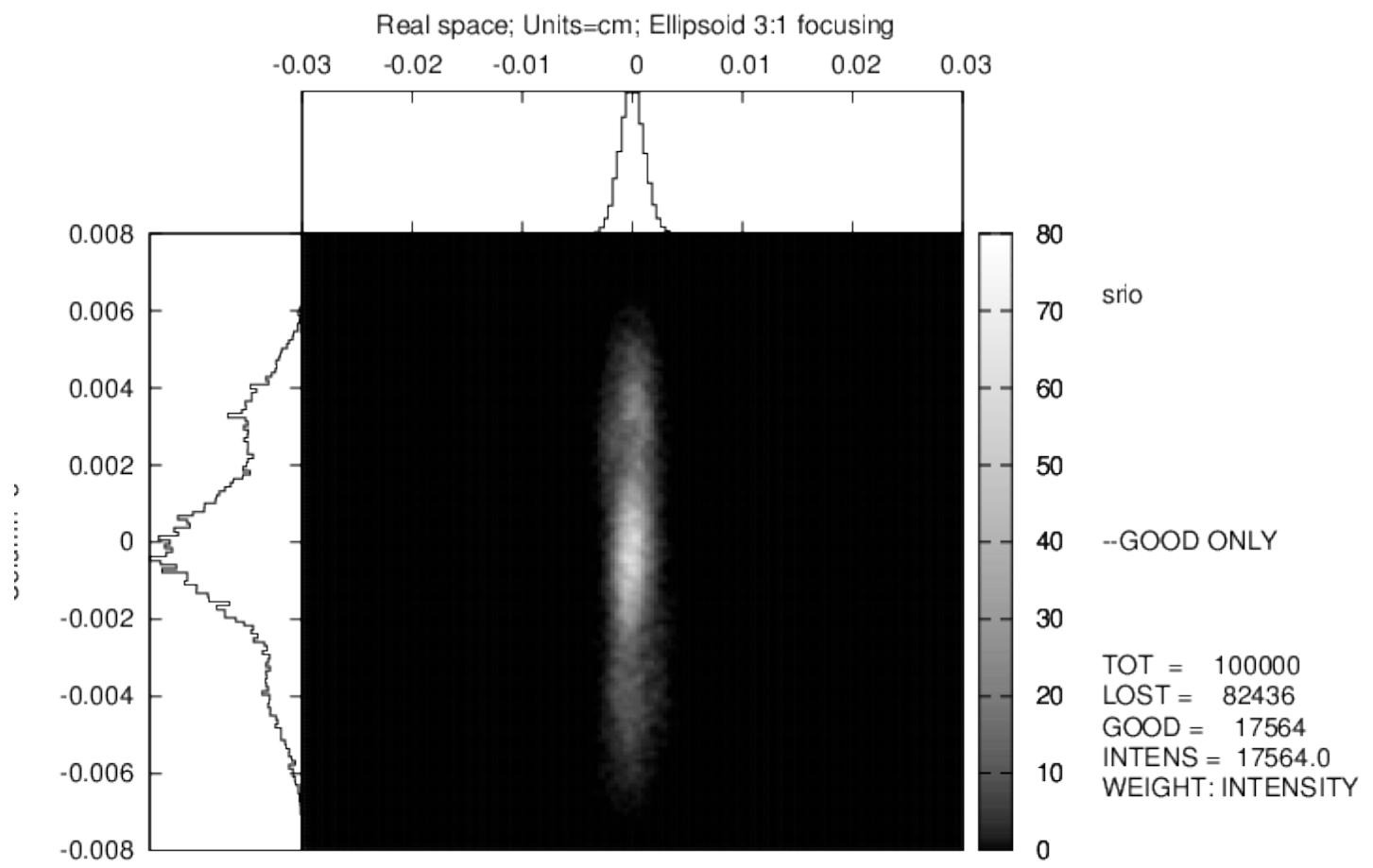


0.4.1.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 79.470 um

FWHM H: 23.841 um V: 32.848 um

FW75M H: 15.894 um V: 16.954 um

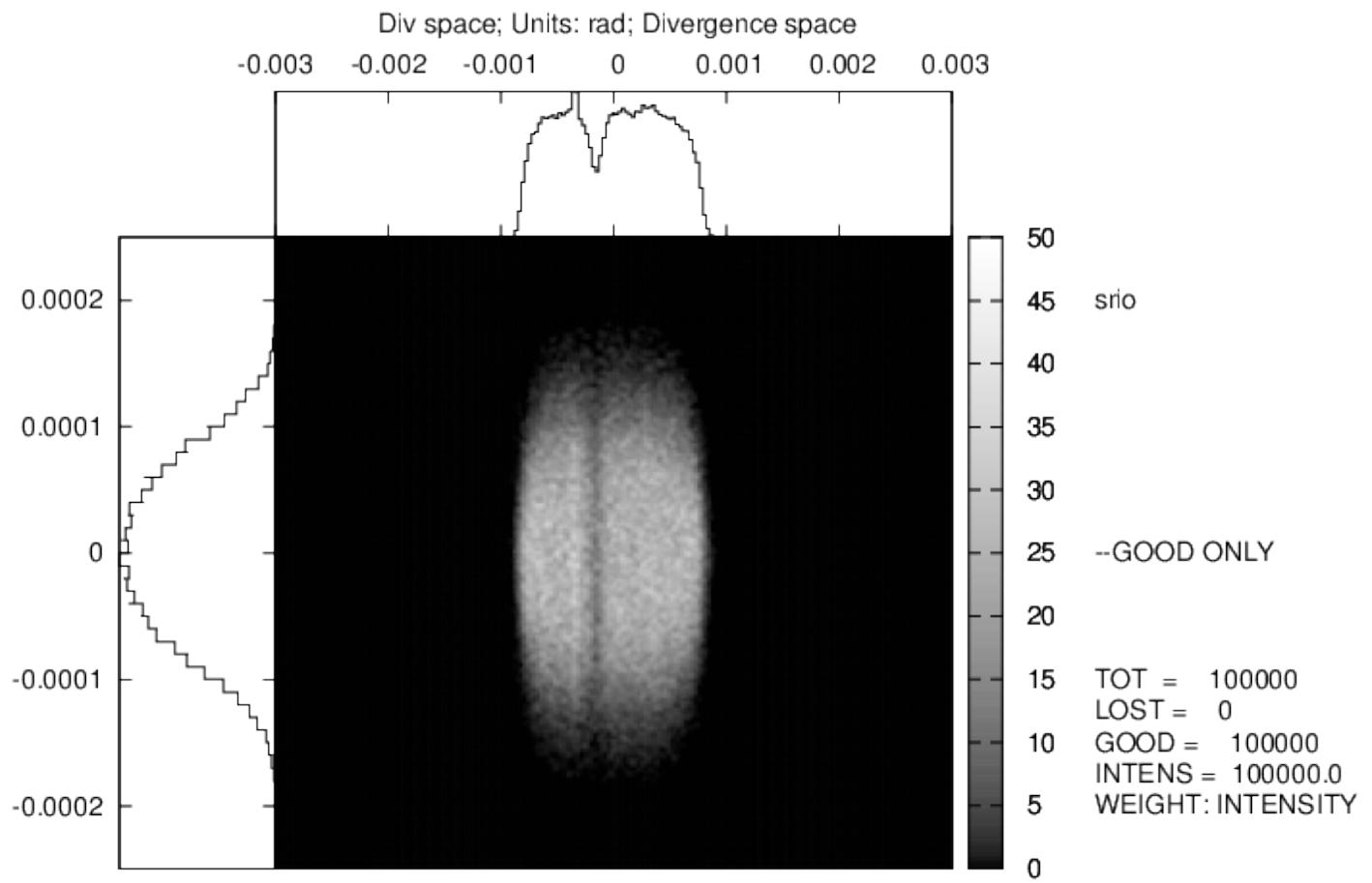


Column 1

0.4.2. Finite Emittance; magnetic field: 2PBcut; E=10 keV

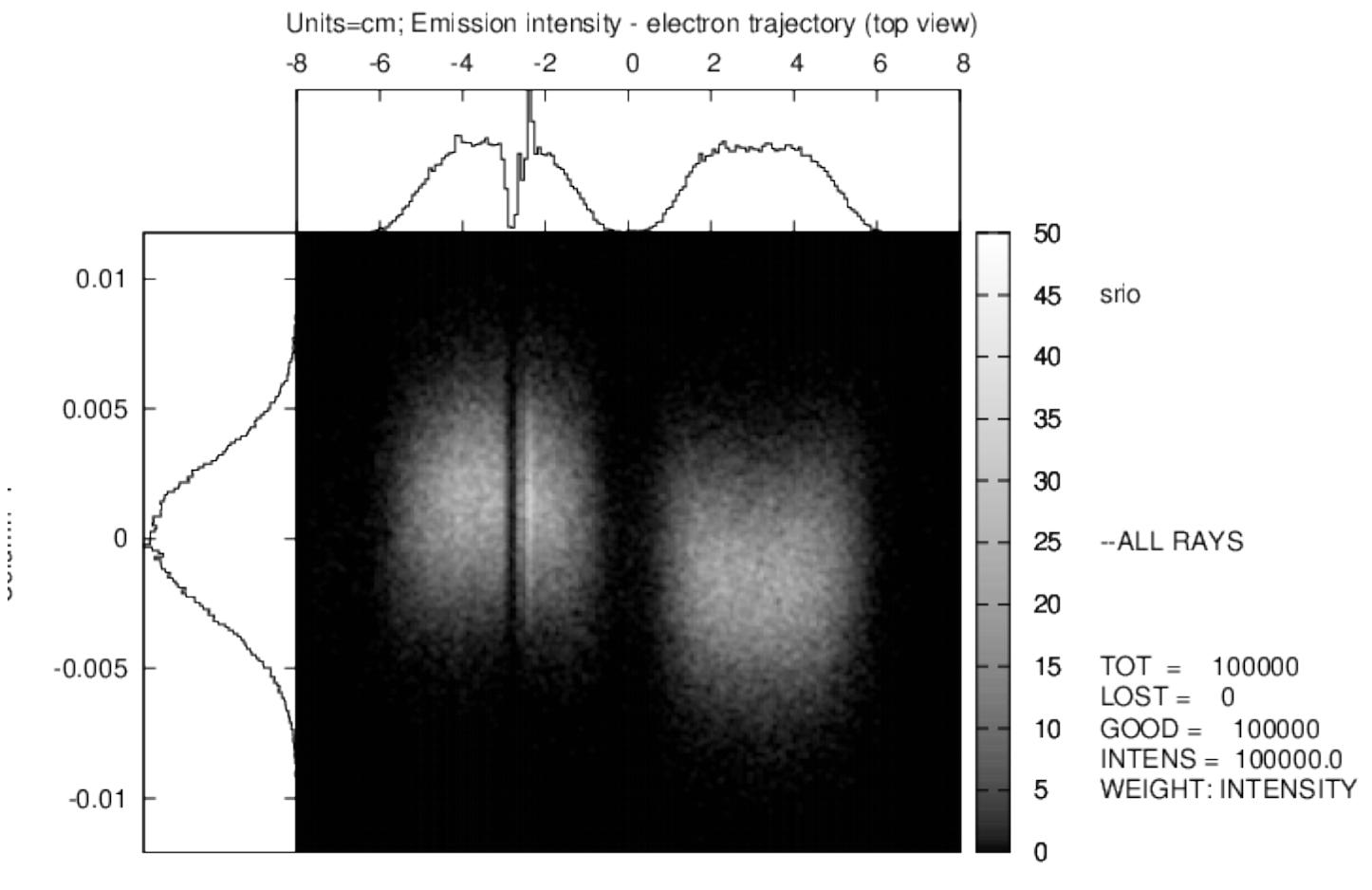
0.4.2.1. Divergence space

FW25M H: 1582.090 urad V: 226.368 urad
 FWHM H: 1522.388 urad V: 176.617 urad
 FW75M H: 1253.731 urad V: 126.866 urad



Column 4

0.4.2.2. Emission intensity - electron trajectory (top view)



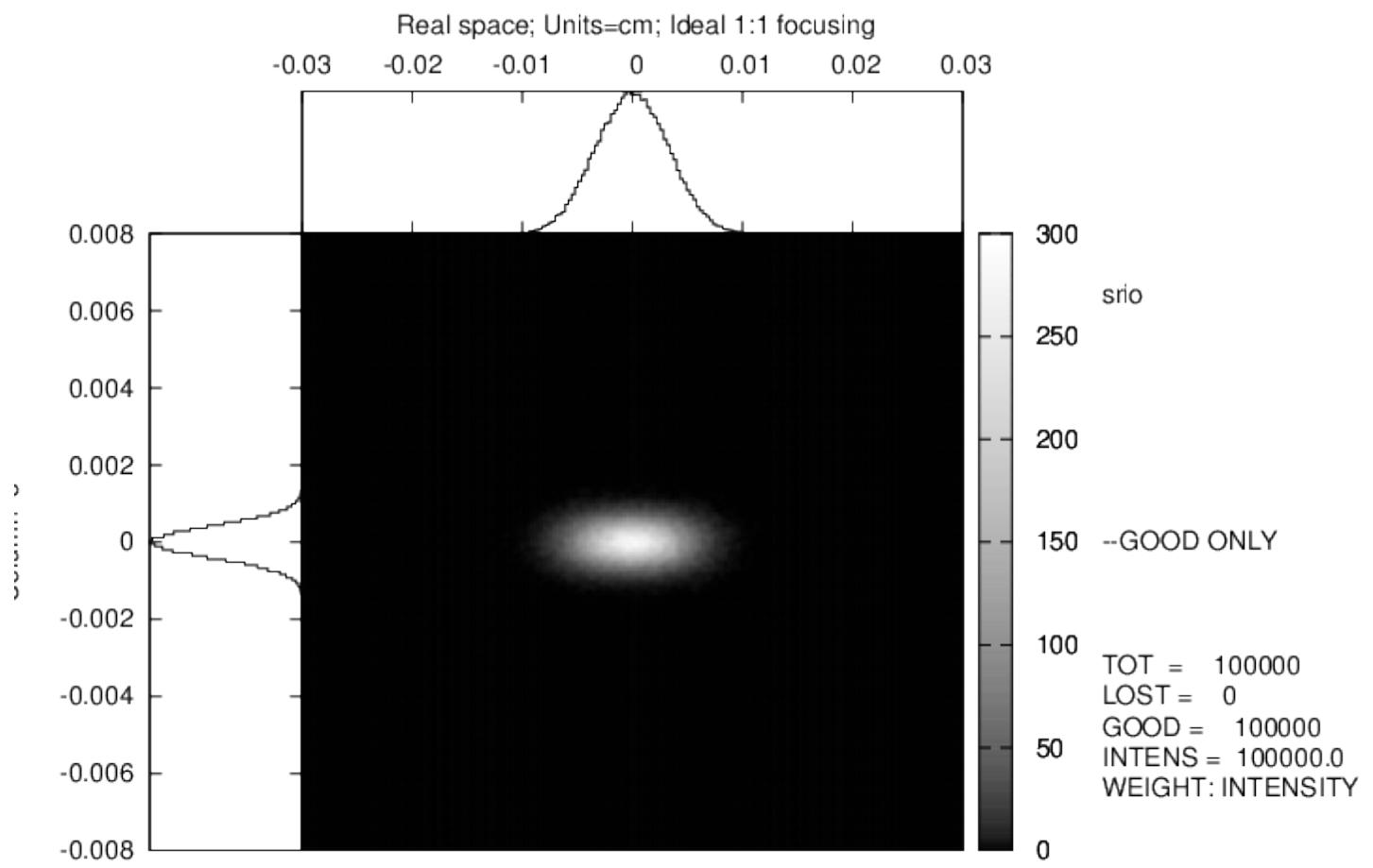
Column 2

0.4.2.3. Ideal 1:1 focusing

FW25M H: 107.463 um V: 12.736 um

FWHM H: 77.612 um V: 9.552 um

FW75M H: 47.761 um V: 4.776 um



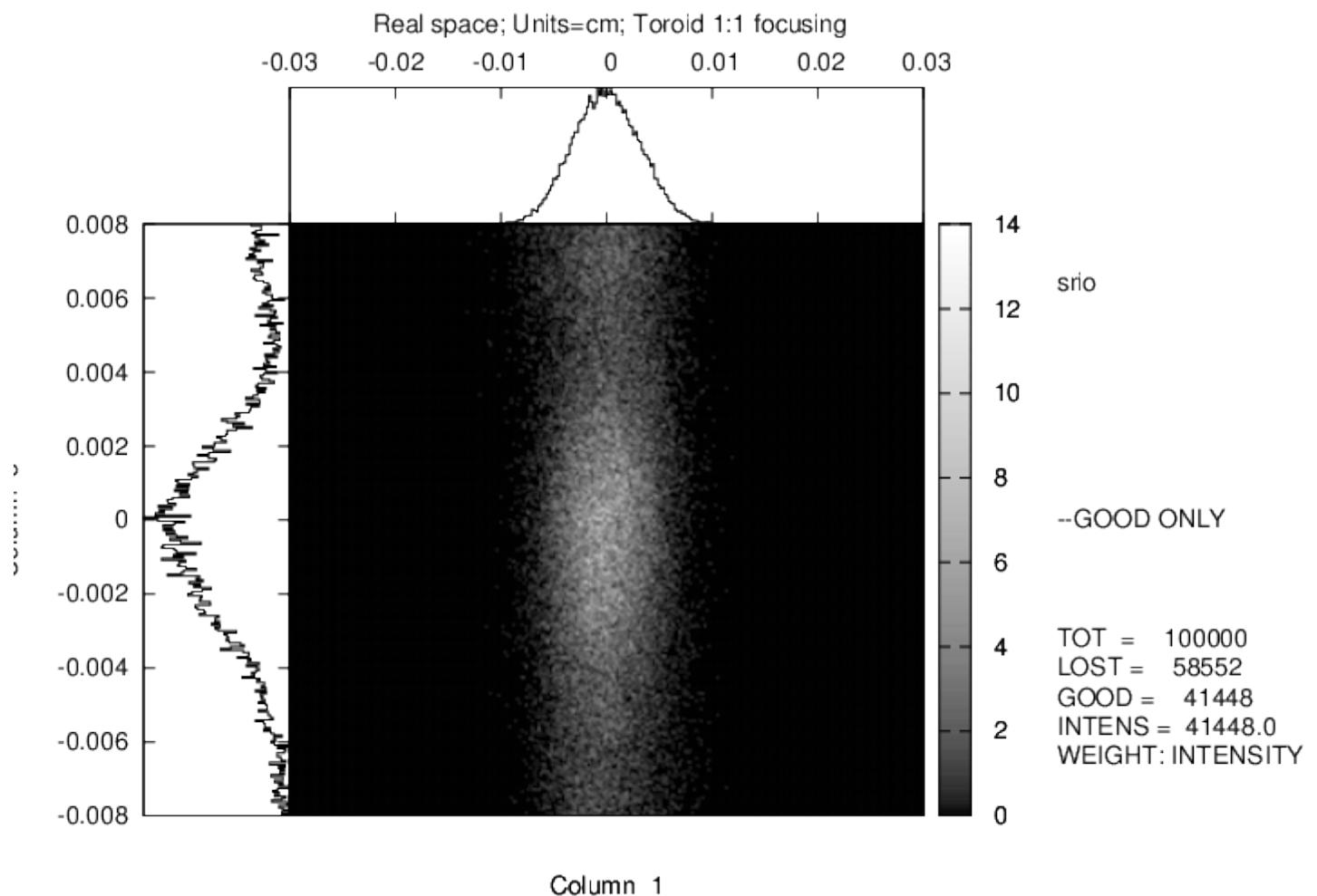
Column 1

0.4.2.4. Toroid 1:1 focusing

FW25M H: 105.648 um V: 155.748 um

FWHM H: 75.748 um V: 62.193 um

FW75M H: 43.854 um V: 30.831 um

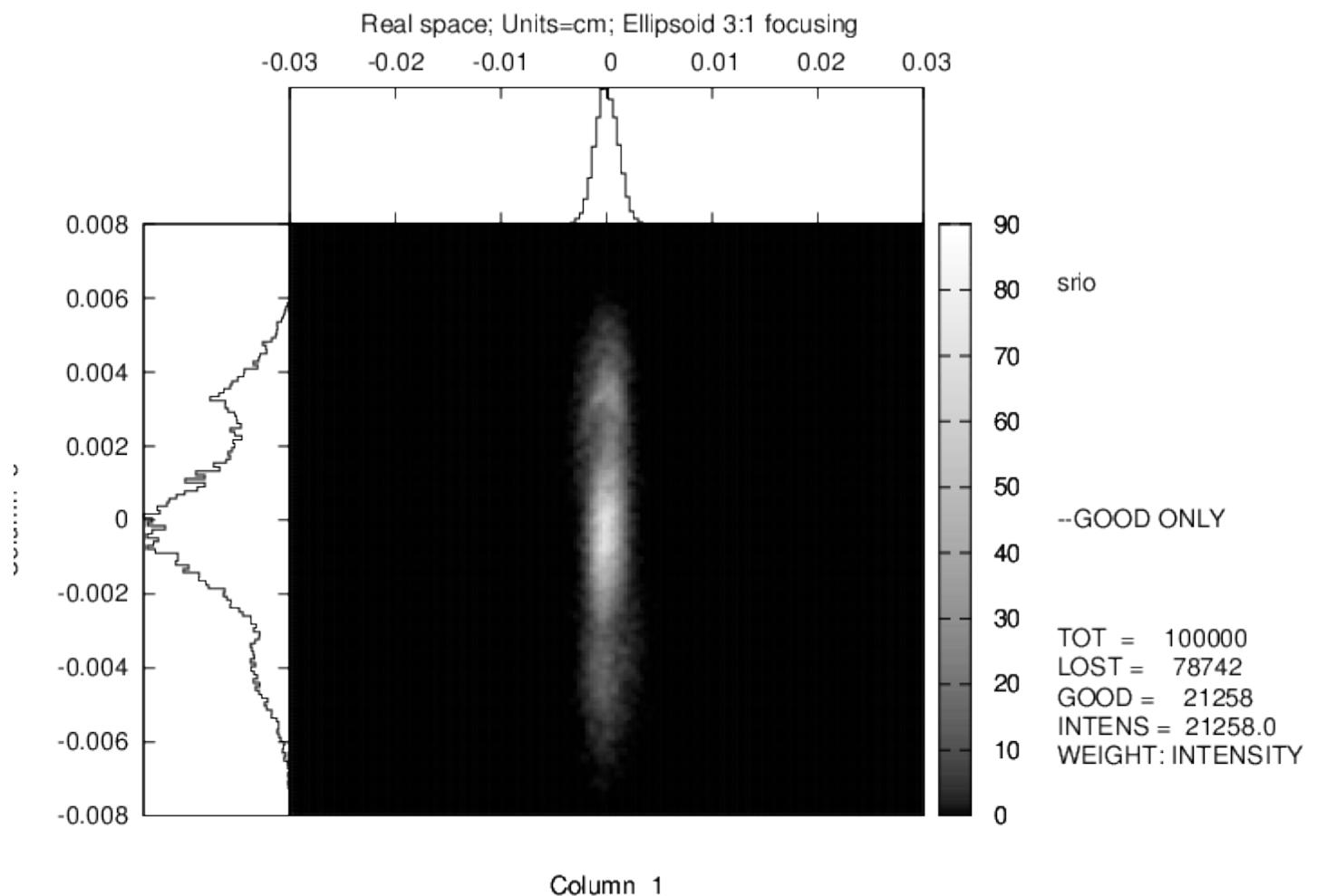


0.4.2.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 82.649 um

FWHM H: 23.841 um V: 50.861 um

FW75M H: 15.894 um V: 18.013 um



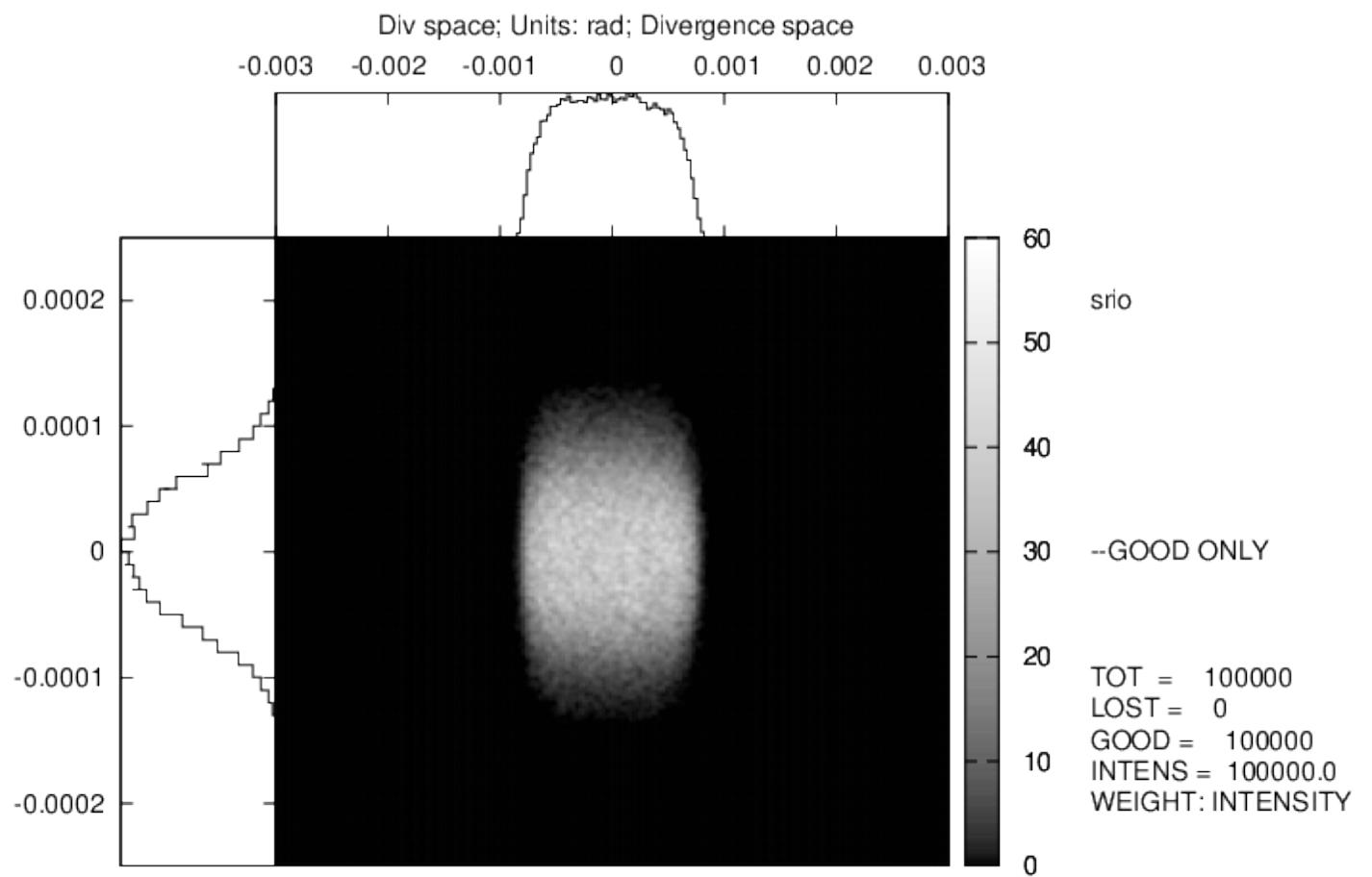
Column 1

0.4.3. Finite Emittance; magnetic field: 2PBcut; E=20 keV

0.4.3.1. Divergence space

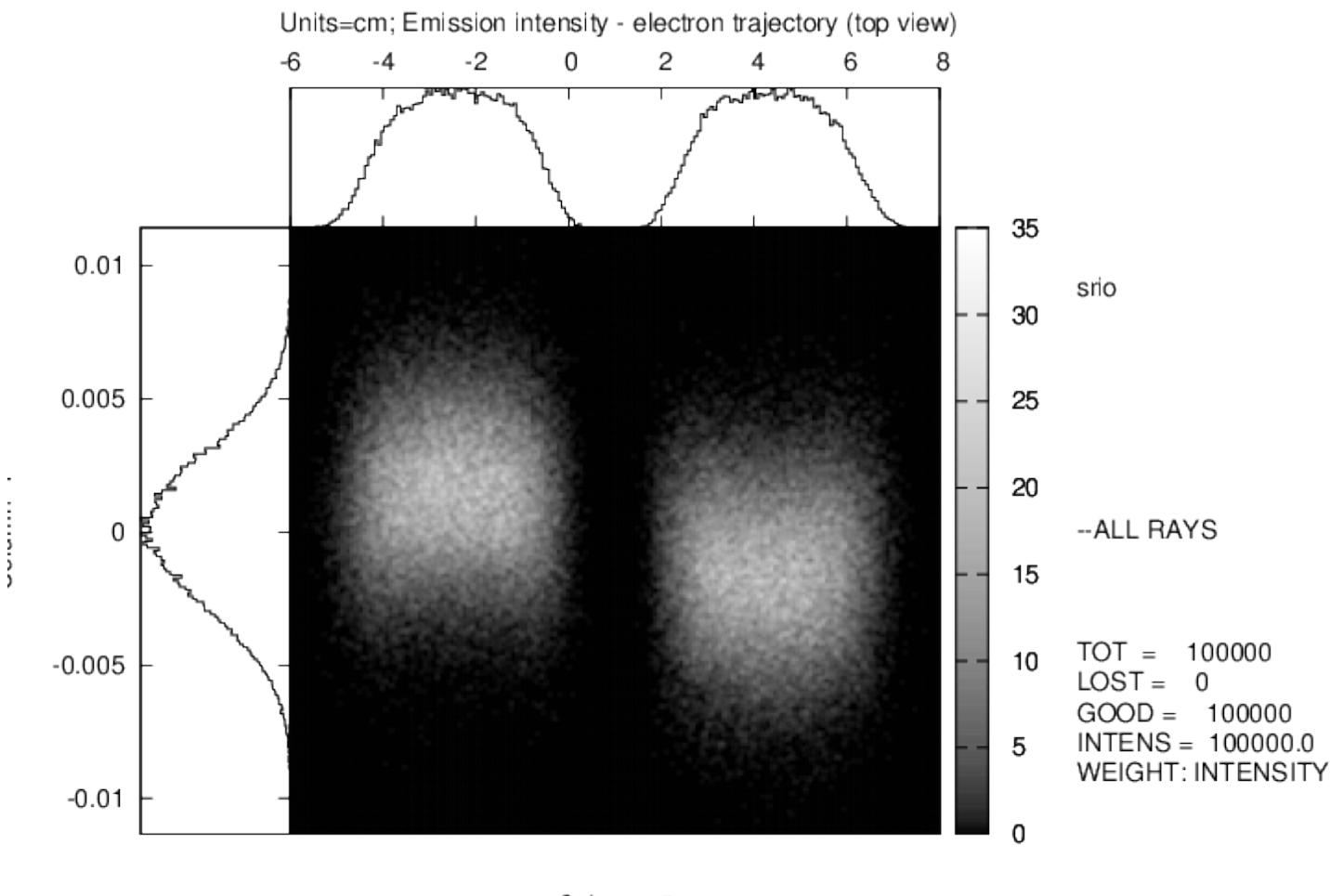
```

FW25M H: 1522.388 urad V: 164.179 urad
FWHM H: 1402.985 urad V: 124.378 urad
FW75M H: 1223.881 urad V: 87.065 urad
  
```



Column 4

0.4.3.2. Emission intensity - electron trajectory (top view)



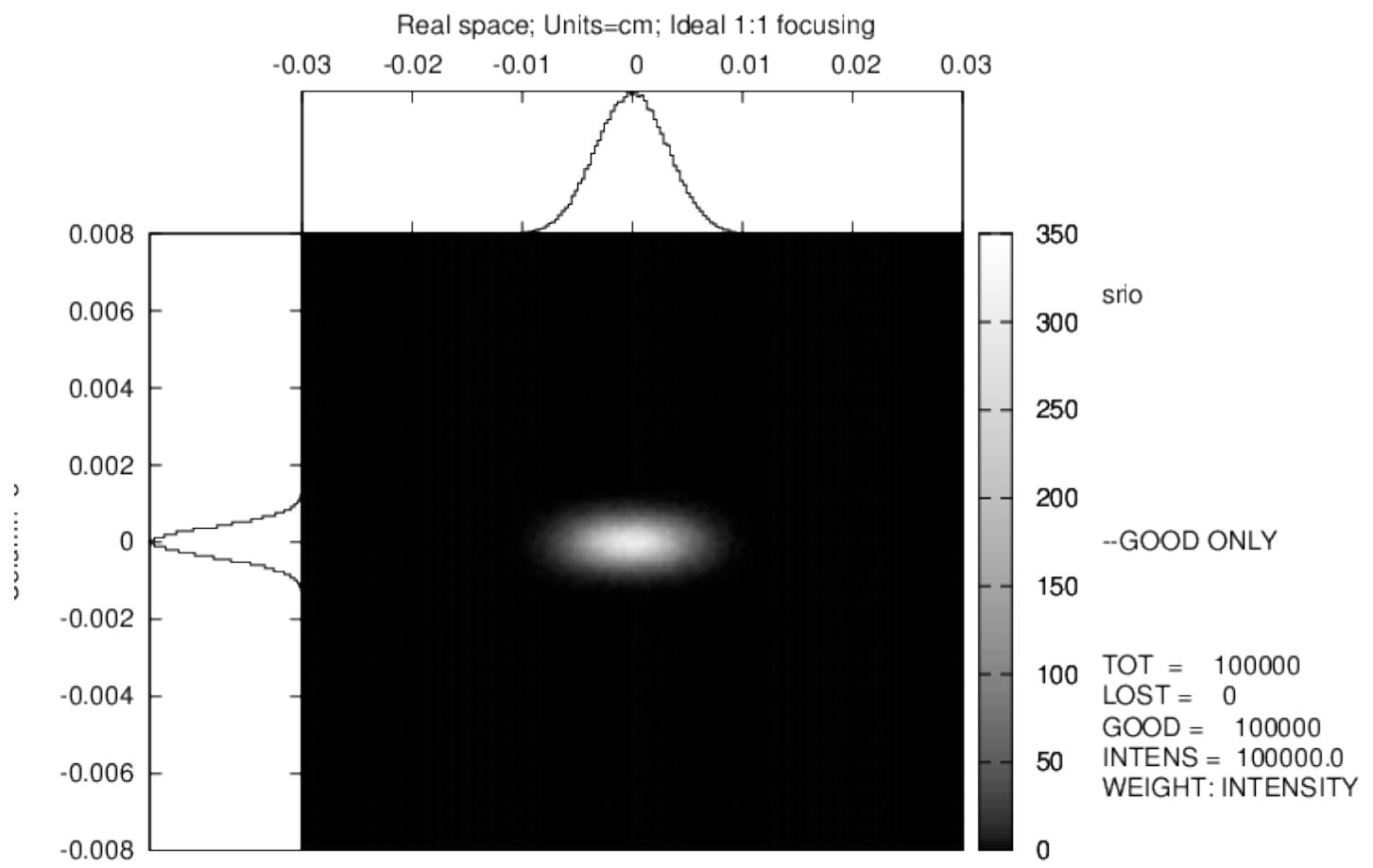
Column 2

0.4.3.3. Ideal 1:1 focusing

FW25M H: 107.463 um V: 11.940 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 44.776 um V: 4.776 um



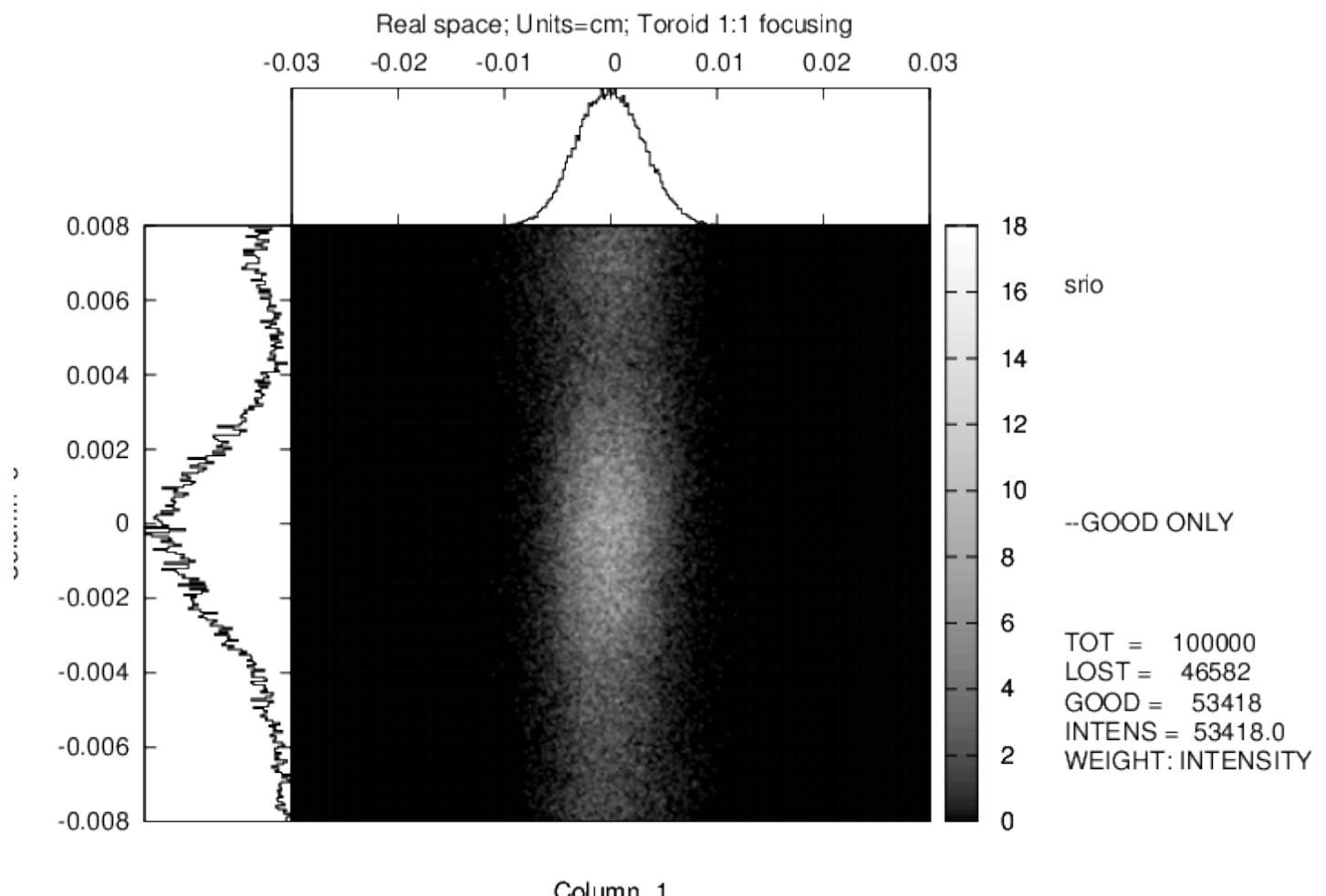
Column 1

0.4.3.4. Toroid 1:1 focusing

FW25M H: 101.661 um V: 155.748 um

FWHM H: 75.748 um V: 59.535 um

FW75M H: 47.841 um V: 36.678 um

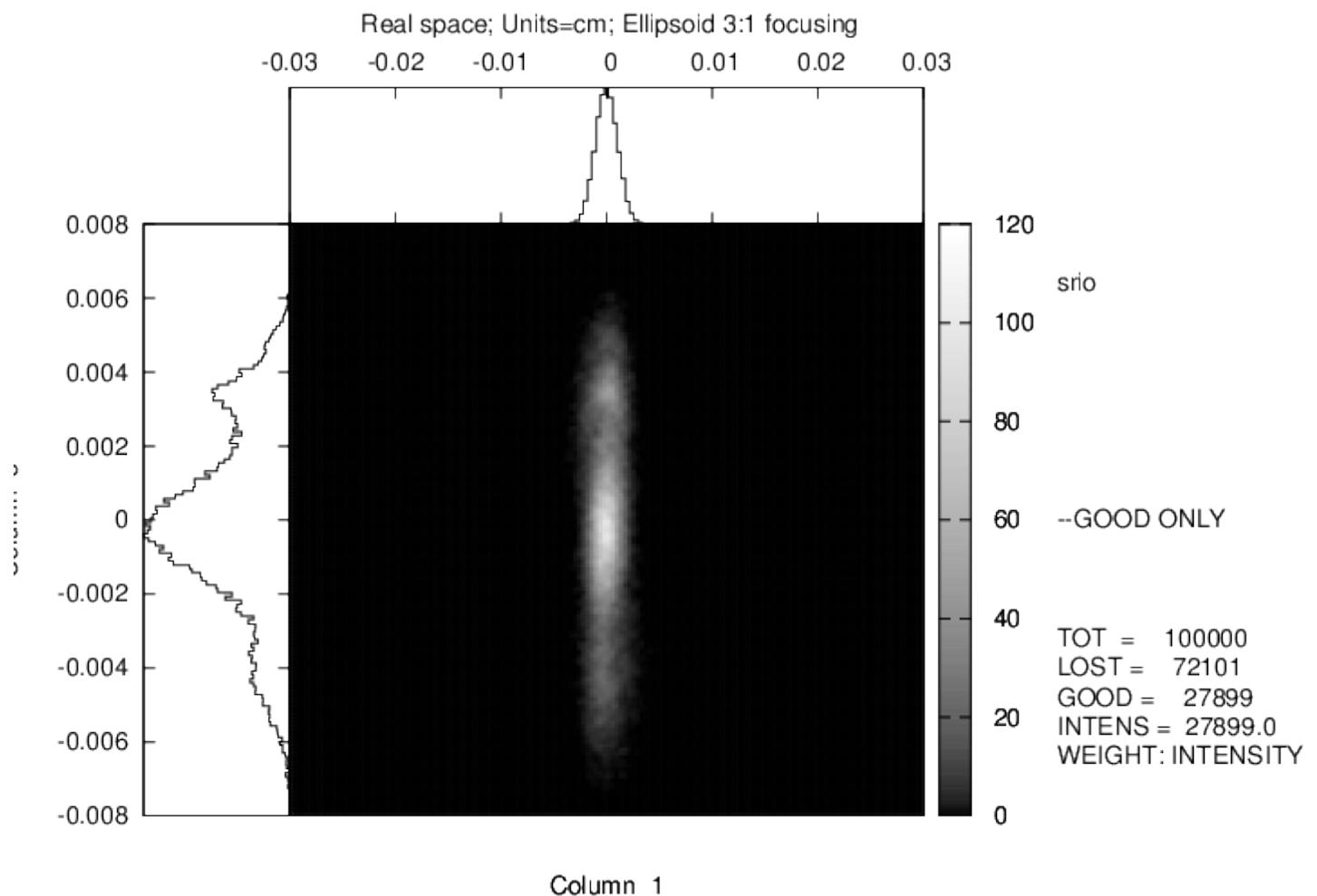


0.4.3.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 83.709 um

FWHM H: 23.841 um V: 52.980 um

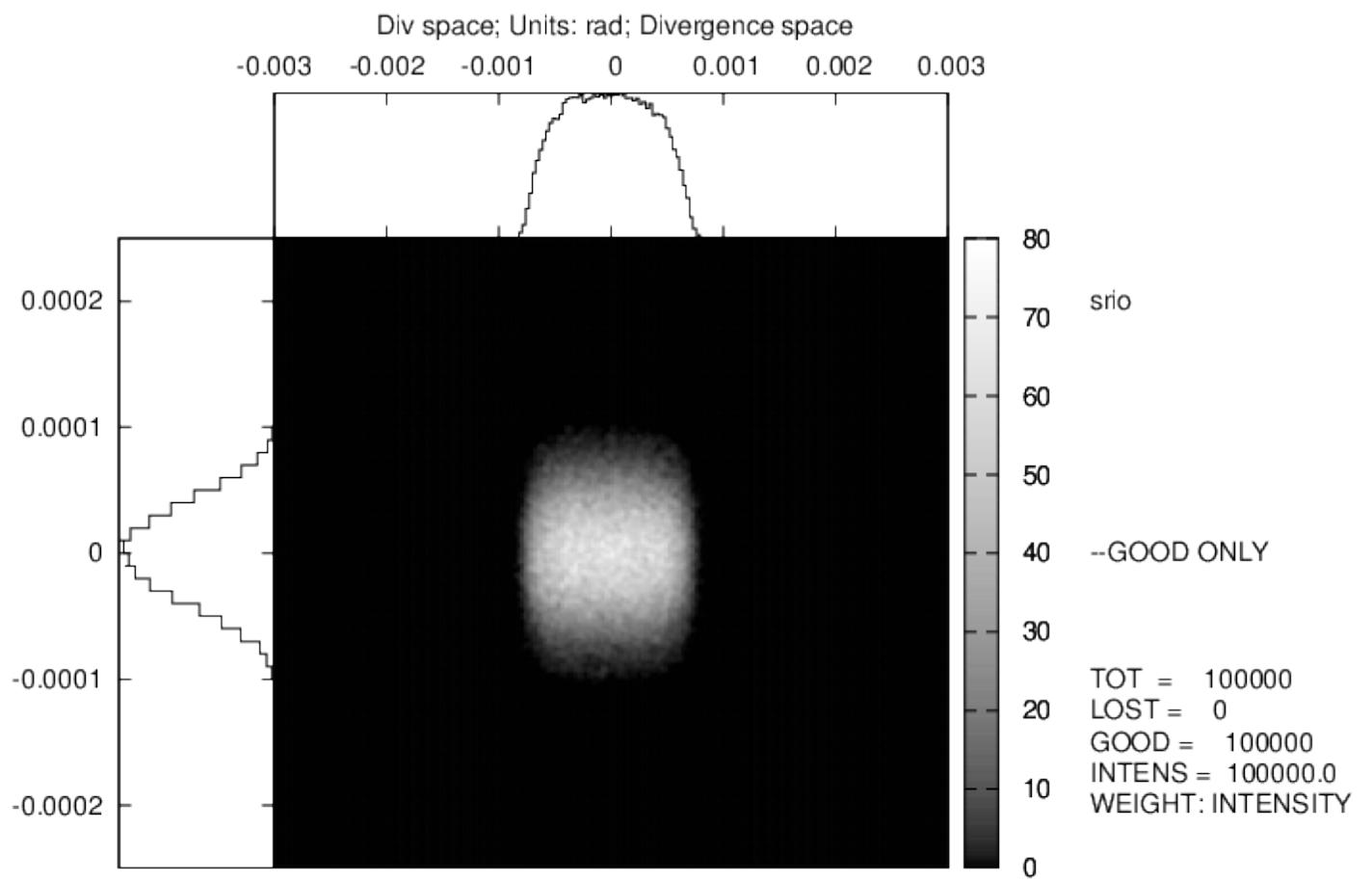
FW75M H: 11.921 um V: 18.013 um



0.4.4. Finite Emittance; magnetic field: 2PBcut; E=40 keV

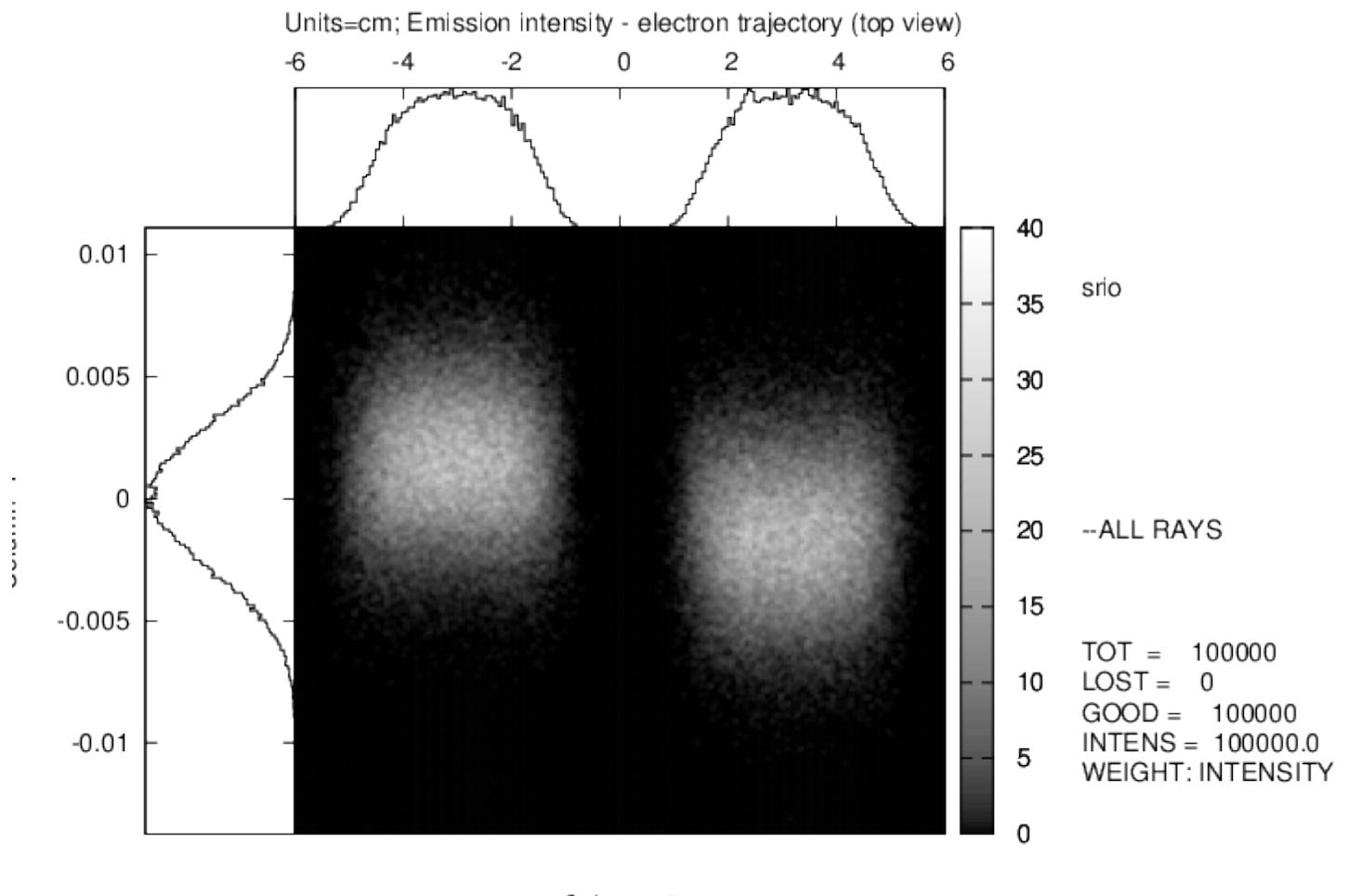
0.4.4.1. Divergence space

FW25M H: 1402.985 urad V: 119.403 urad
 FWHM H: 1253.731 urad V: 87.065 urad
 FW75M H: 1044.776 urad V: 54.726 urad



Column 4

0.4.4.2. Emission intensity - electron trajectory (top view)



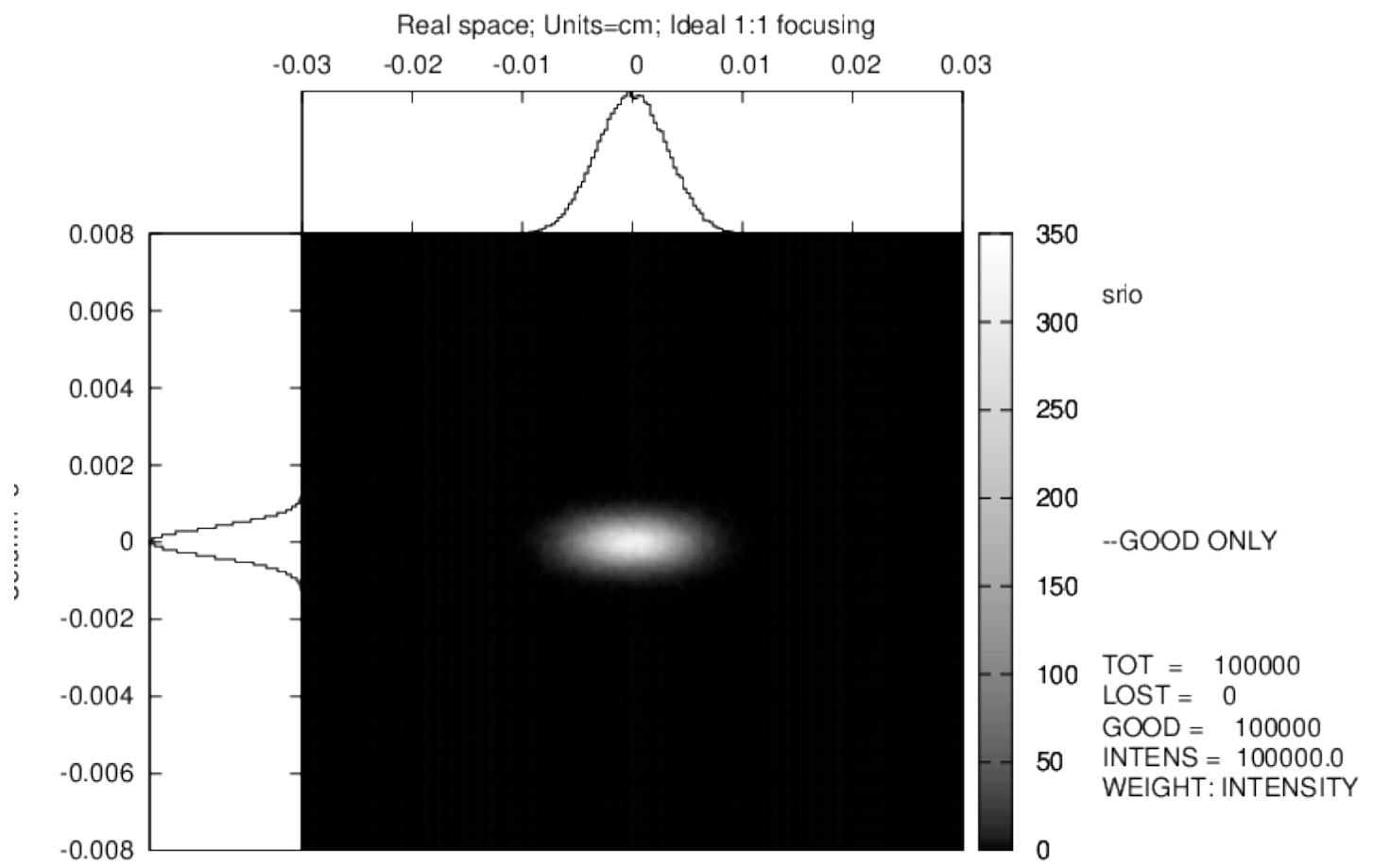
Column 2

0.4.4.3. Ideal 1:1 focusing

FW25M H: 101.493 um V: 11.144 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 41.791 um V: 4.776 um



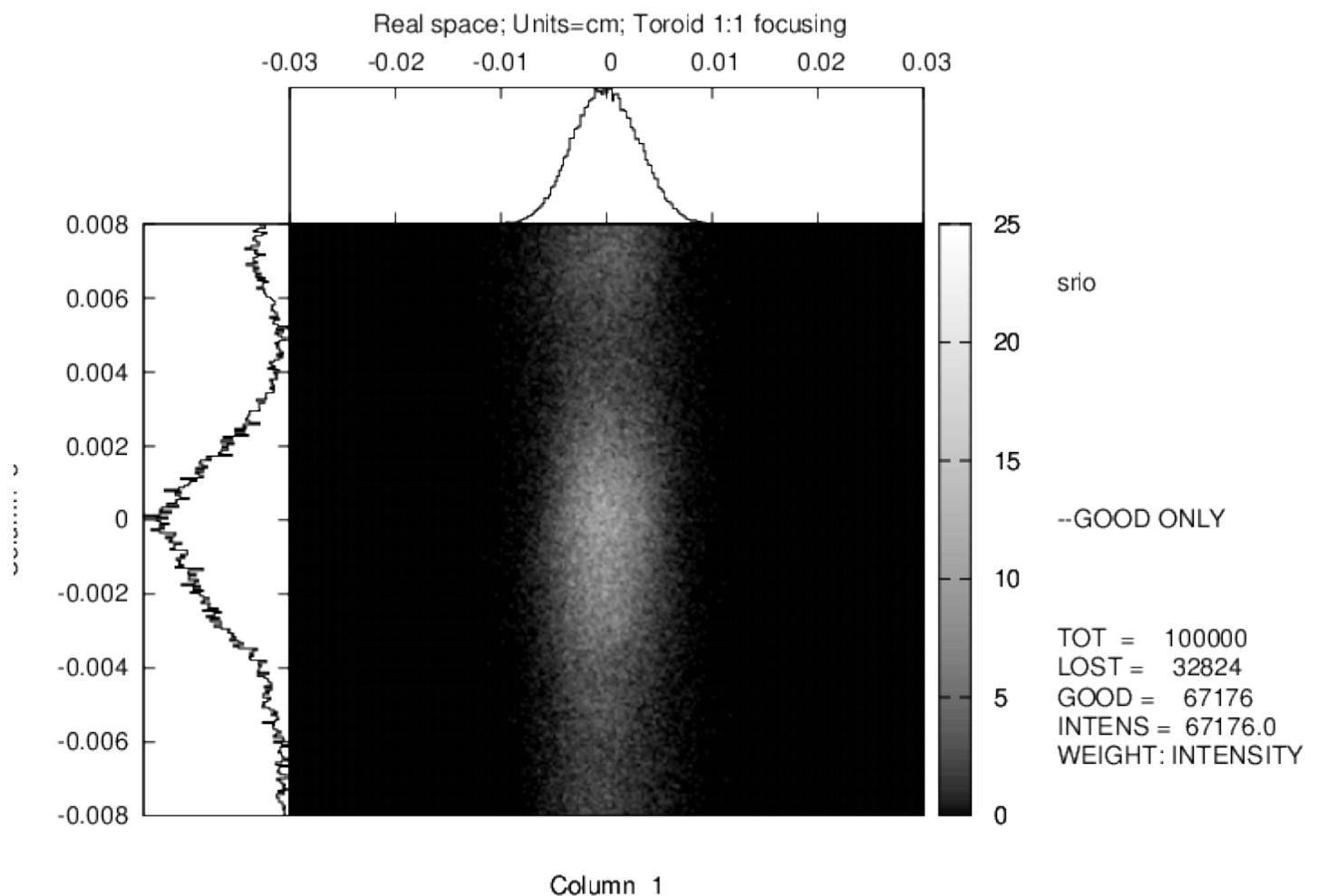
Column 1

0.4.4.4. Toroid 1:1 focusing

FW25M H: 103.654 um V: 134.485 um

FWHM H: 71.761 um V: 52.625 um

FW75M H: 45.847 um V: 28.704 um

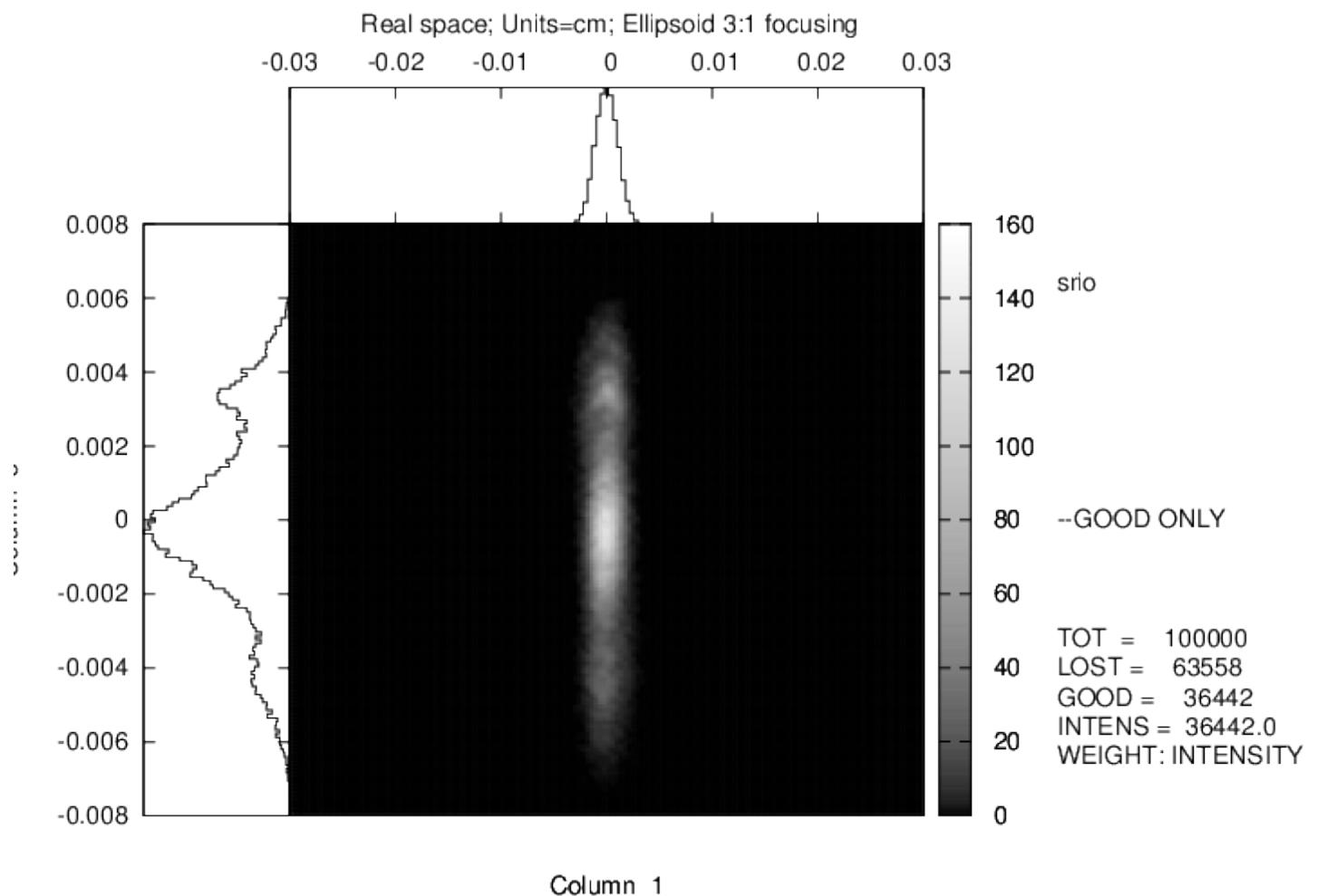


0.4.4.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 84.768 um

FWHM H: 23.841 um V: 30.728 um

FW75M H: 15.894 um V: 15.894 um



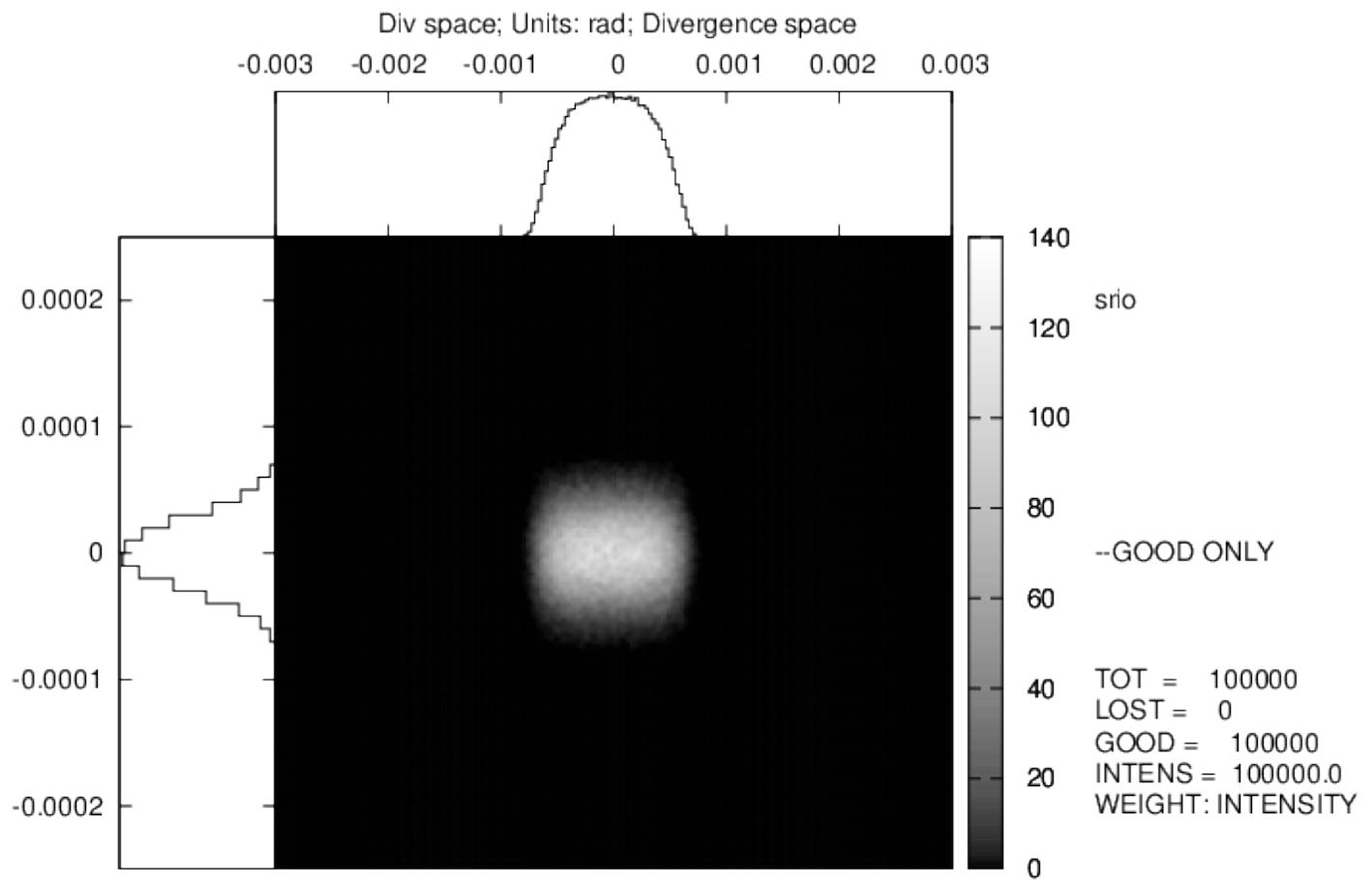
0.4.5. Finite Emittance; magnetic field: 2PBcut; E=80 keV

0.4.5.1. Divergence space

```

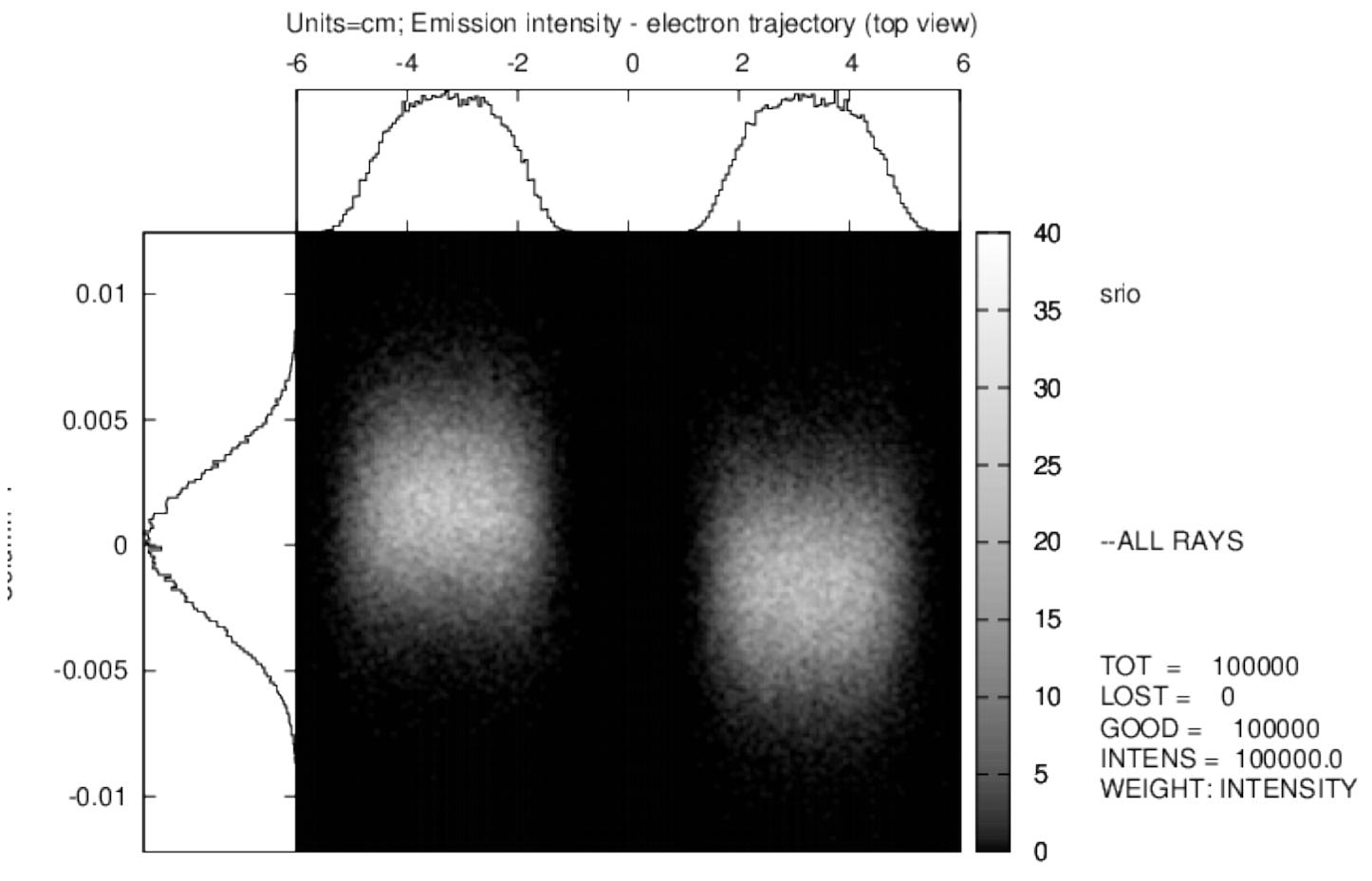
FW25M H: 1253.731 urad V: 84.577 urad
FWHM H: 1074.627 urad V: 59.701 urad
FW75M H: 835.821 urad V: 39.801 urad

```



Column 4

0.4.5.2. Emission intensity - electron trajectory (top view)



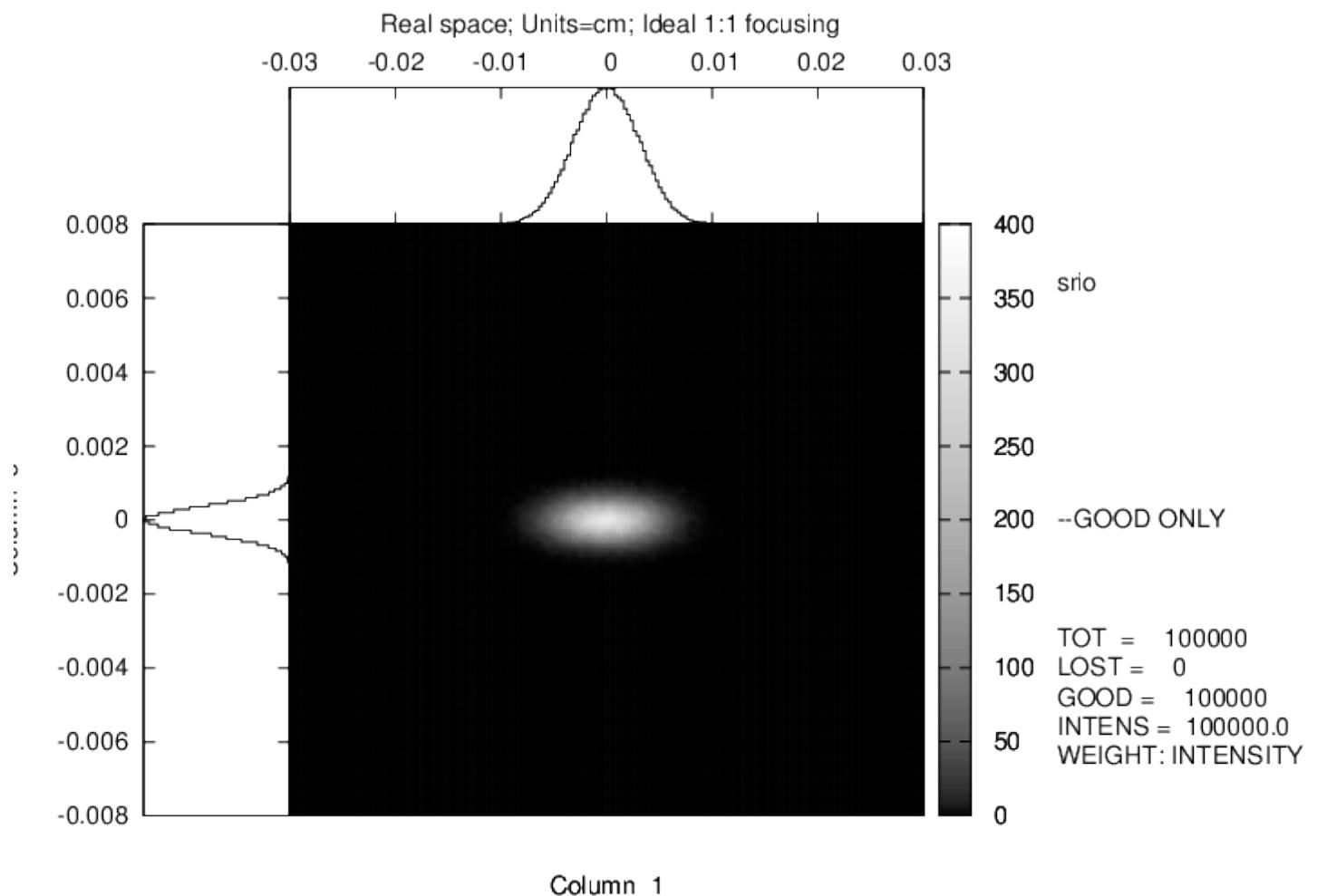
Column 2

0.4.5.3. Ideal 1:1 focusing

FW25M H: 101.493 um V: 11.144 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 44.776 um V: 4.776 um



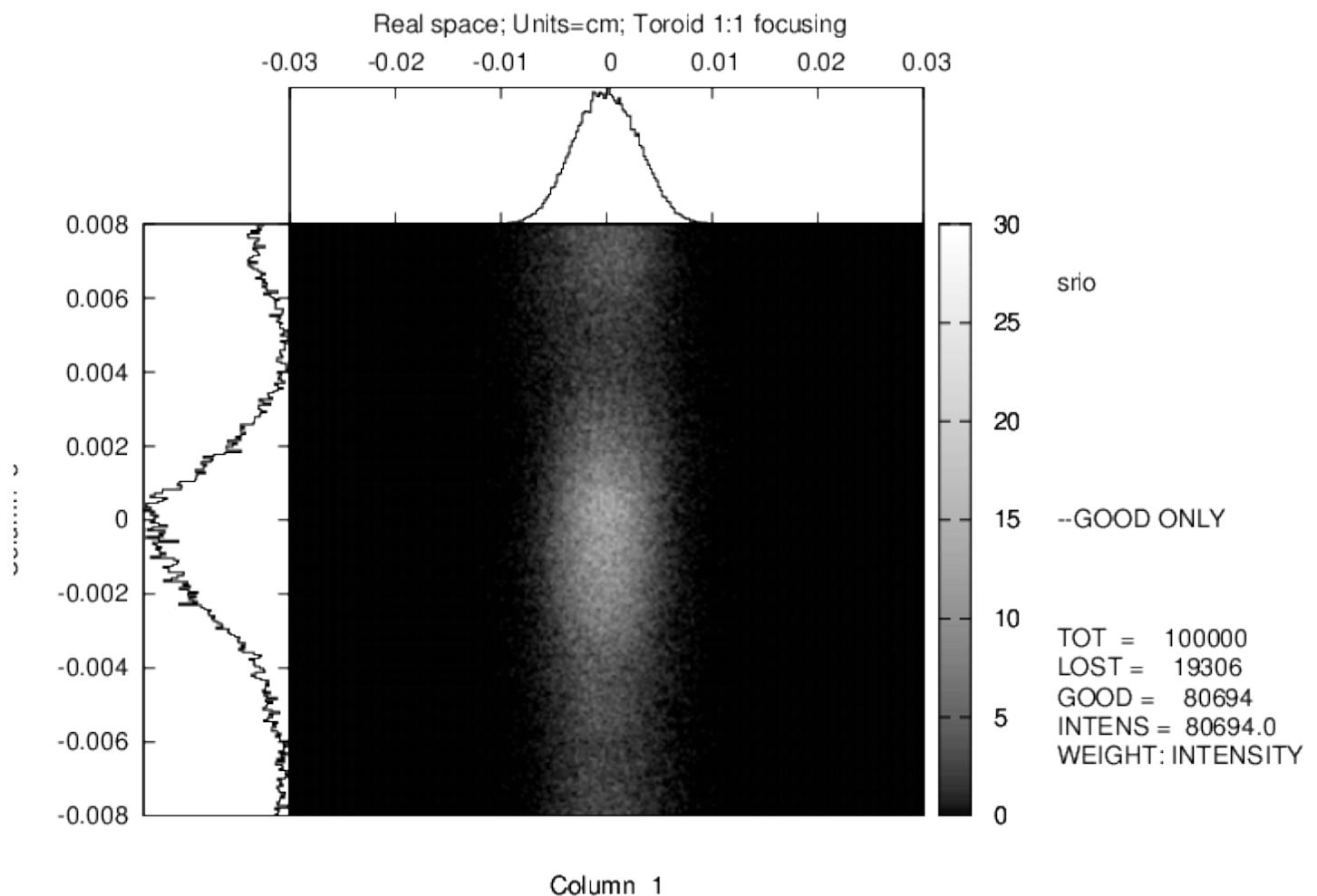
Column 1

0.4.5.4. Toroid 1:1 focusing

FW25M H: 101.661 um V: 136.611 um

FWHM H: 69.767 um V: 52.093 um

FW75M H: 43.854 um V: 32.957 um



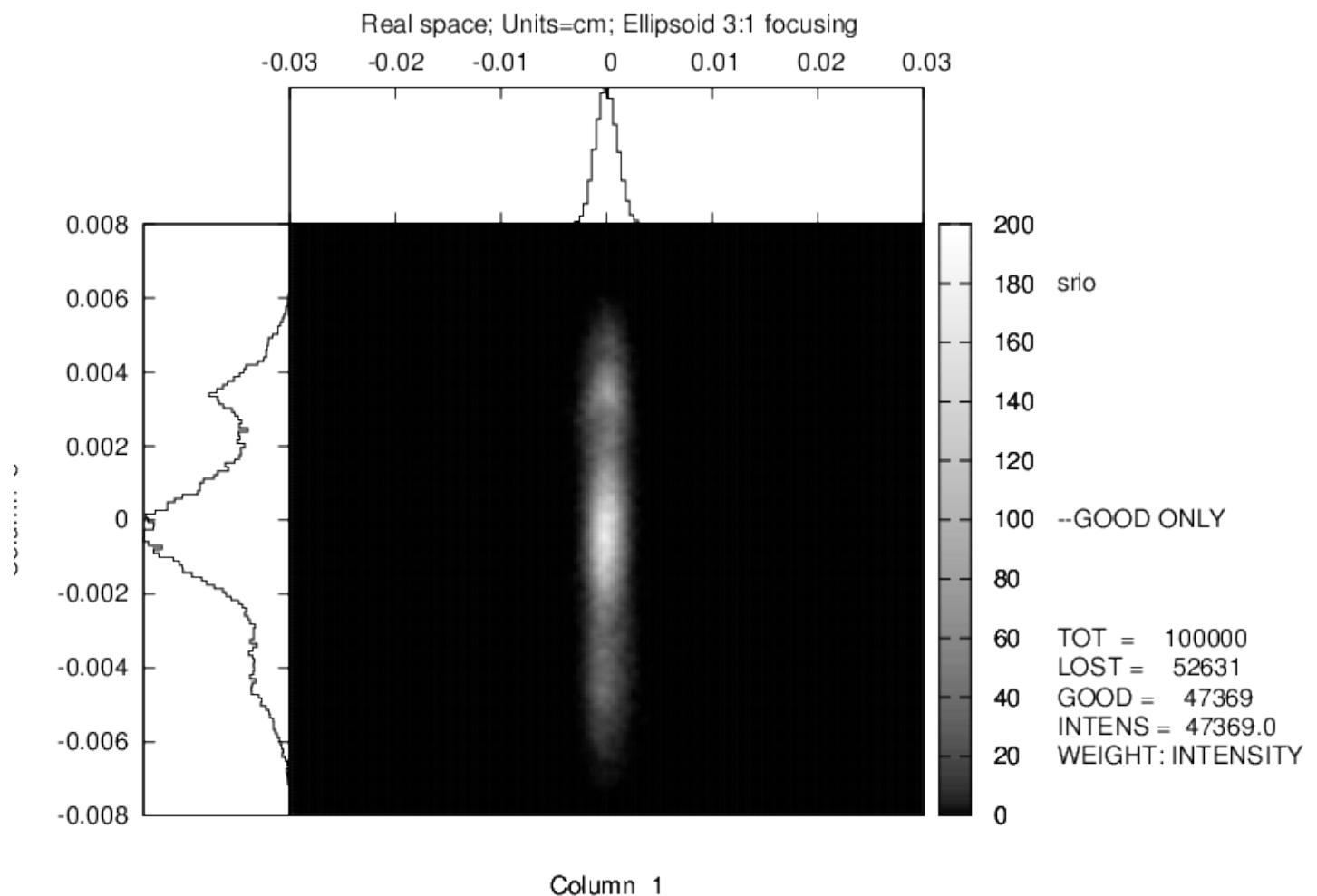
Column 1

0.4.5.5. Ellipsoid 3:1 focusing

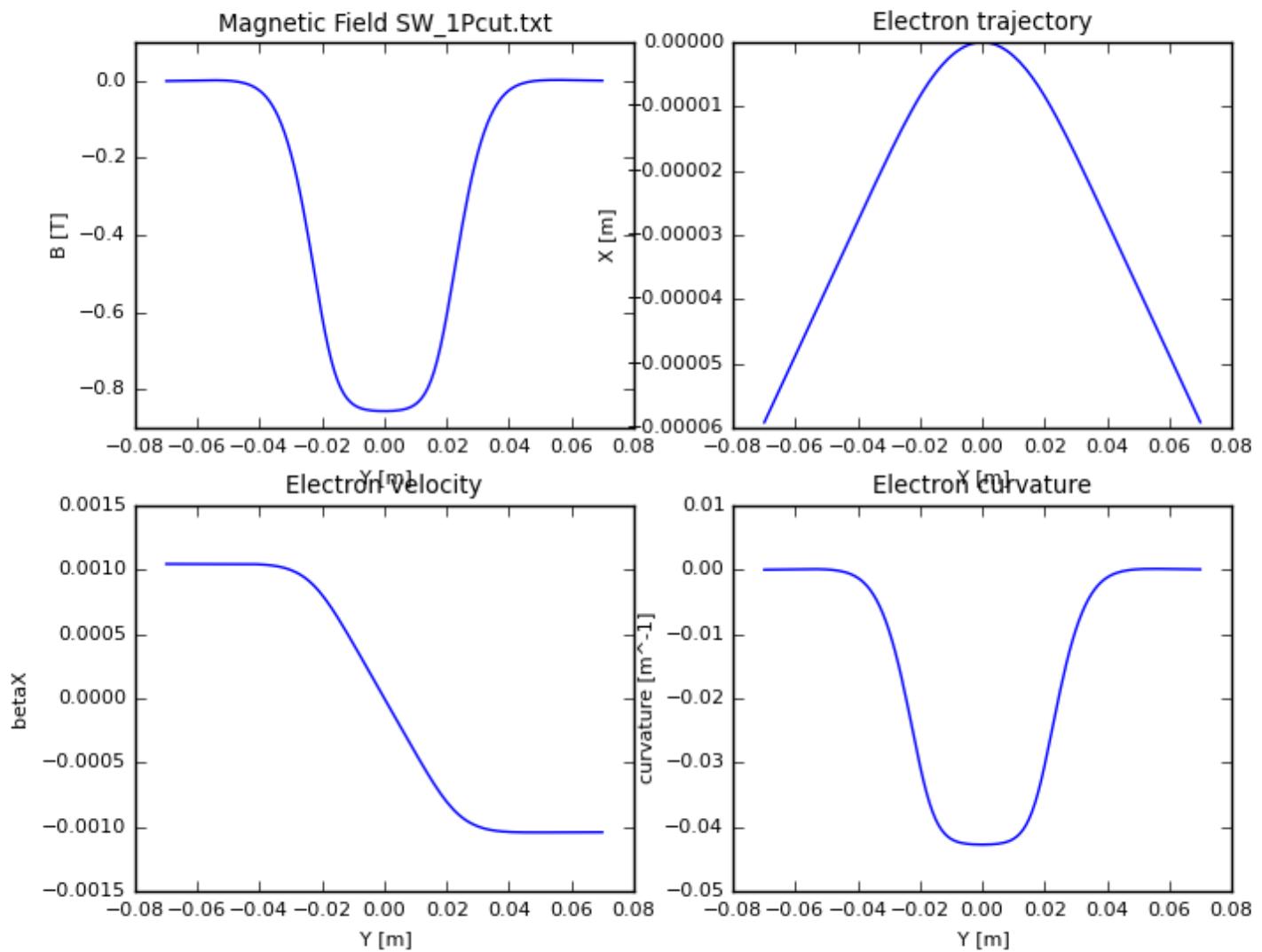
FW25M H: 31.788 um V: 87.947 um

FWHM H: 23.841 um V: 52.980 um

FW75M H: 11.921 um V: 16.954 um



0.5. Finite Emittance; magnetic field: 1Pcut



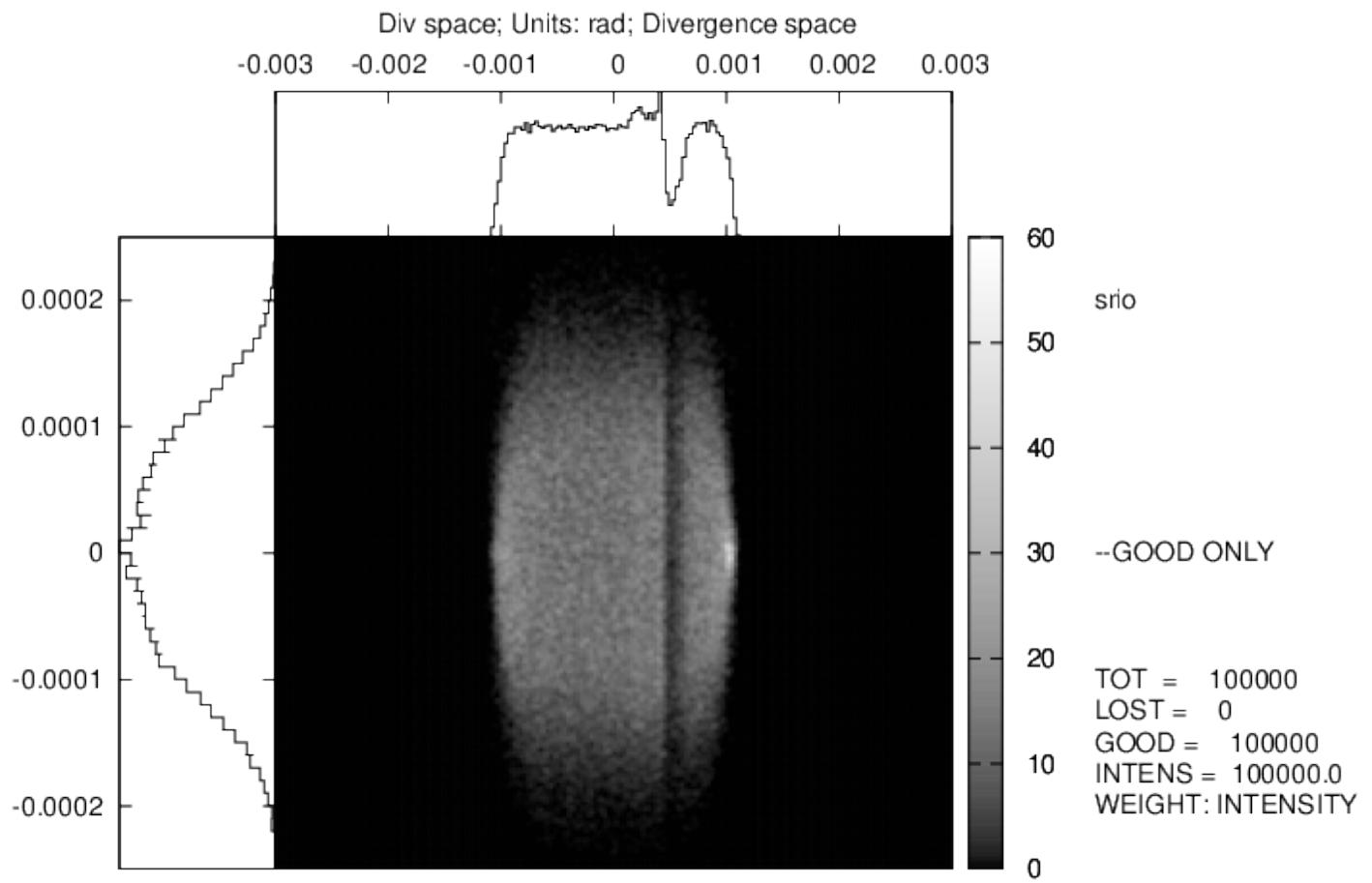
0.5.1. Finite Emittance; magnetic field: 1Pcut; E=5 keV

0.5.1.1. Divergence space

FW25M H: 2059.701 urad V: 291.045 urad

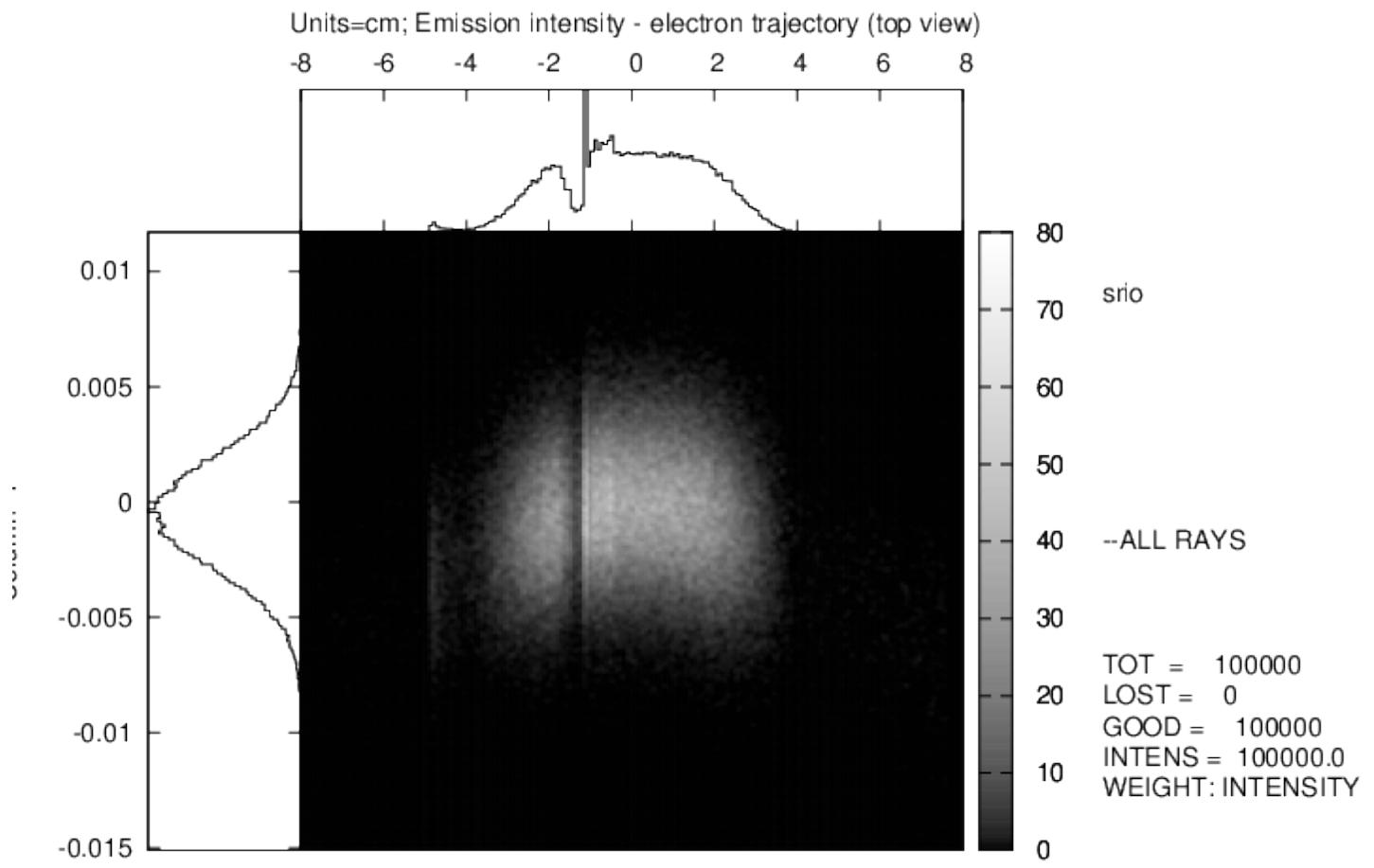
FWHM H: 2000.000 urad V: 221.393 urad

FW75M H: 1761.194 urad V: 166.667 urad



Column 4

0.5.1.2. Emission intensity - electron trajectory (top view)



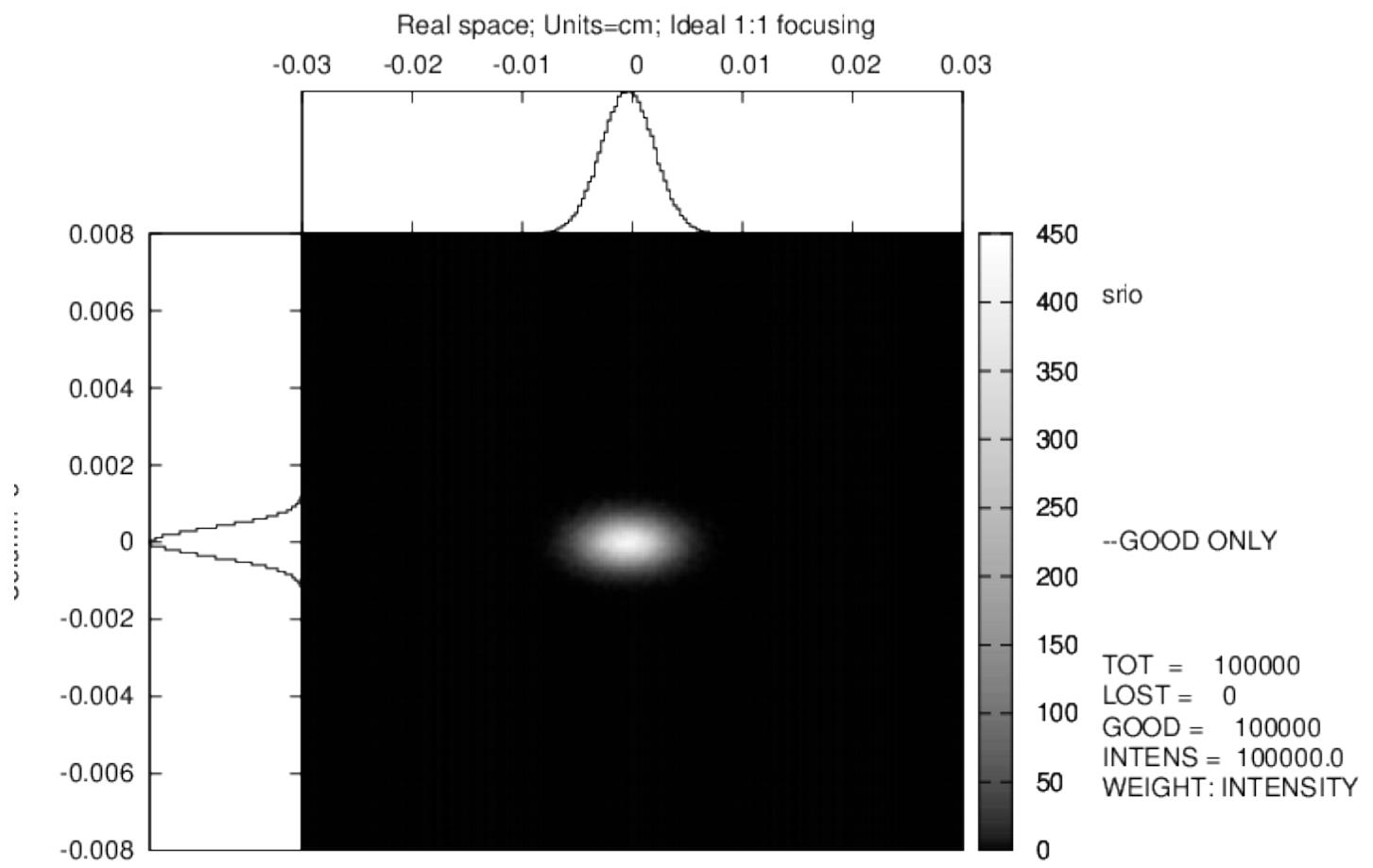
Column 2

0.5.1.3. Ideal 1:1 focusing

FW25M H: 74.627 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um



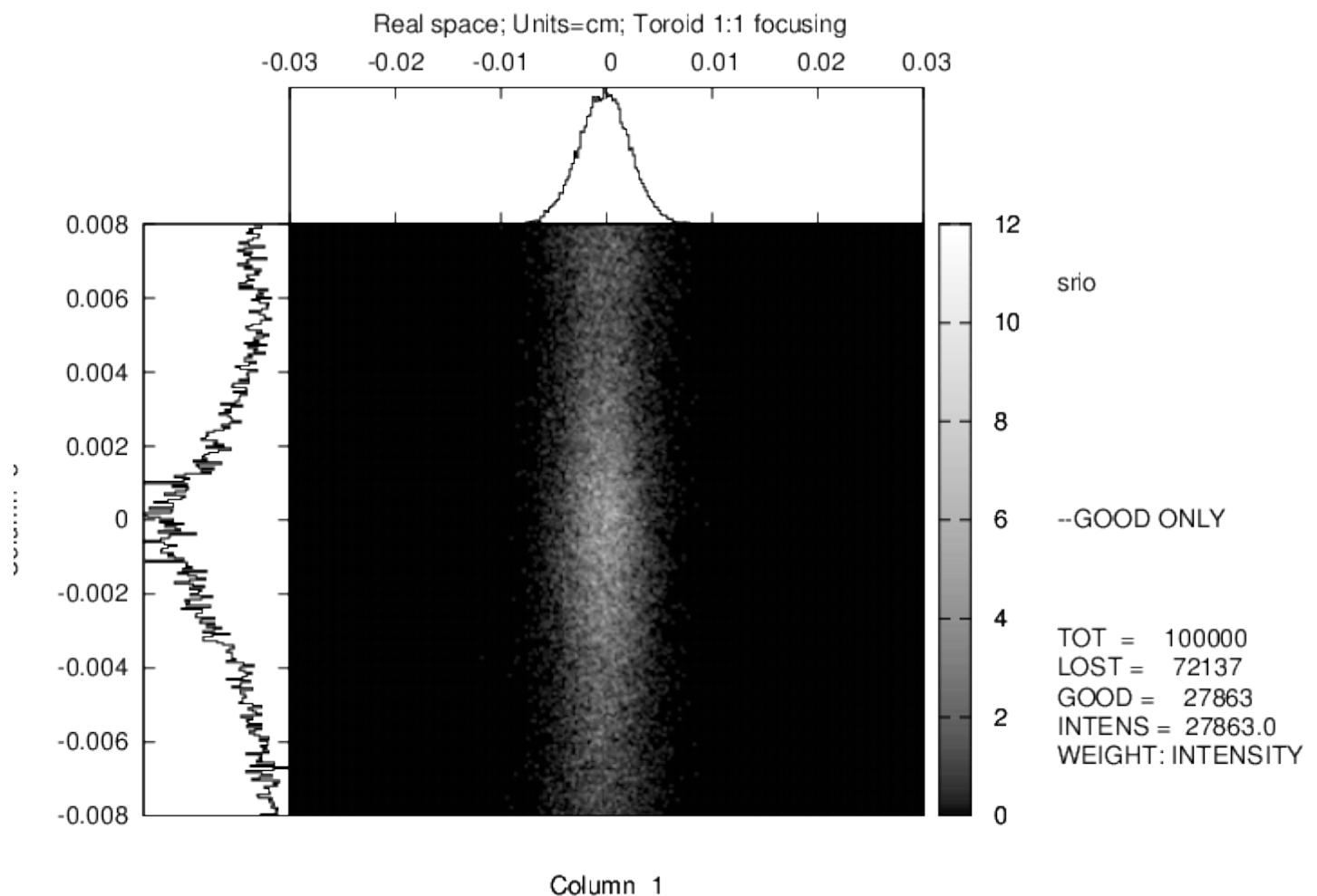
Column 1

0.5.1.4. Toroid 1:1 focusing

FW25M H: 75.748 um V: 159.468 um

FWHM H: 55.814 um V: 74.419 um

FW75M H: 29.900 um V: 36.146 um

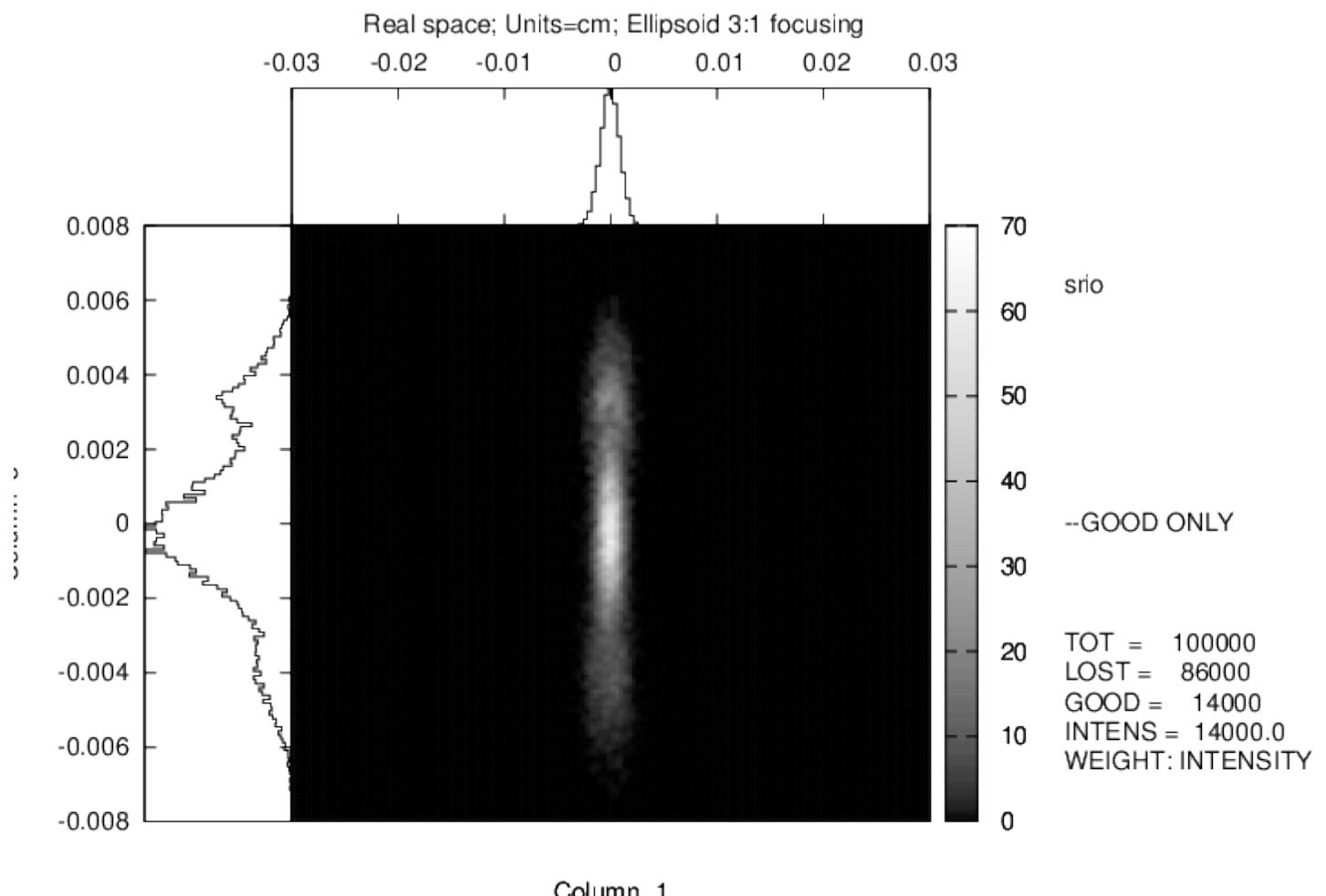


0.5.1.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 82.649 um

FWHM H: 15.894 um V: 50.861 um

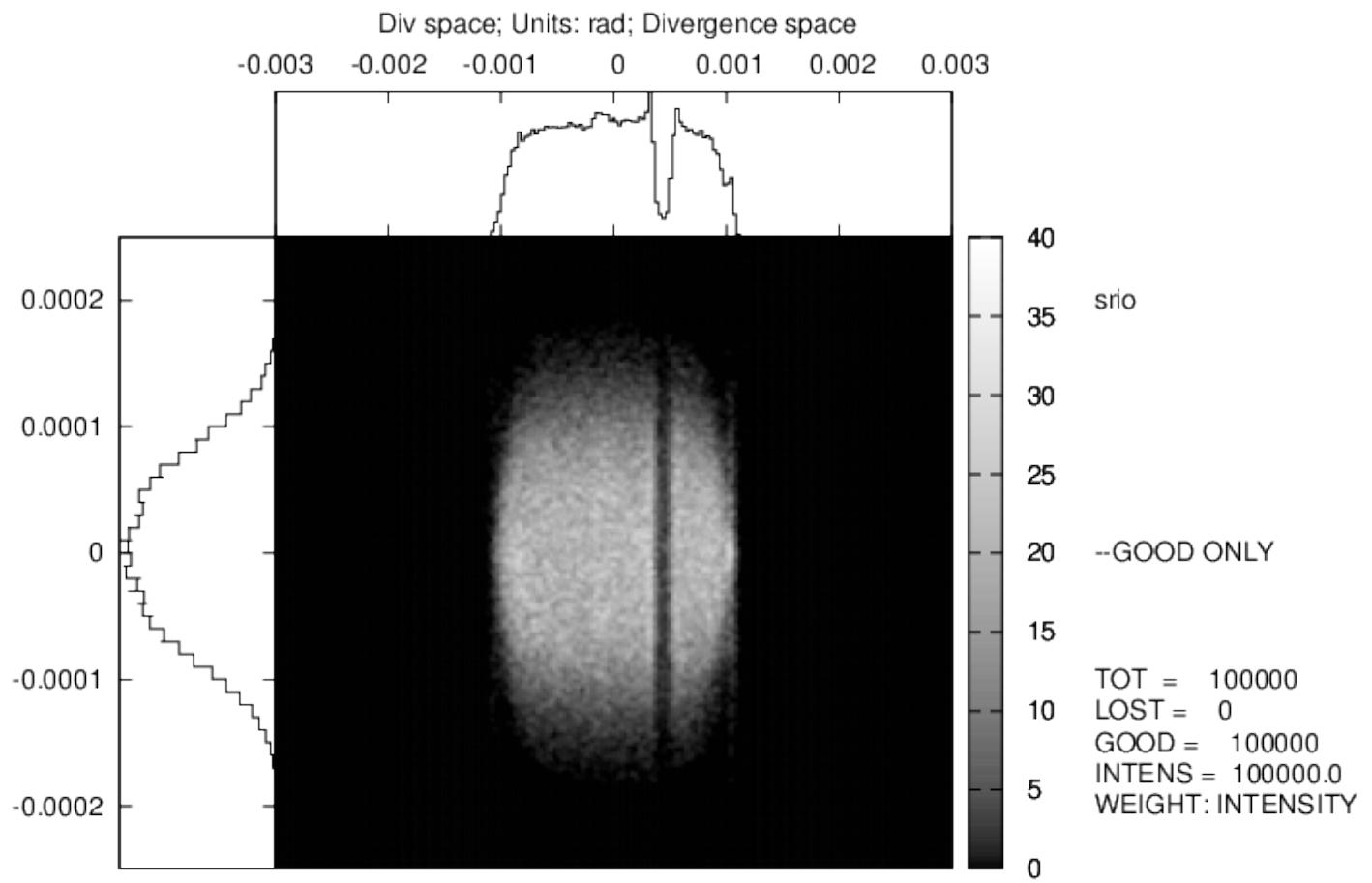
FW75M H: 7.947 um V: 15.894 um



0.5.2. Finite Emittance; magnetic field: 1Pcut; E=10 keV

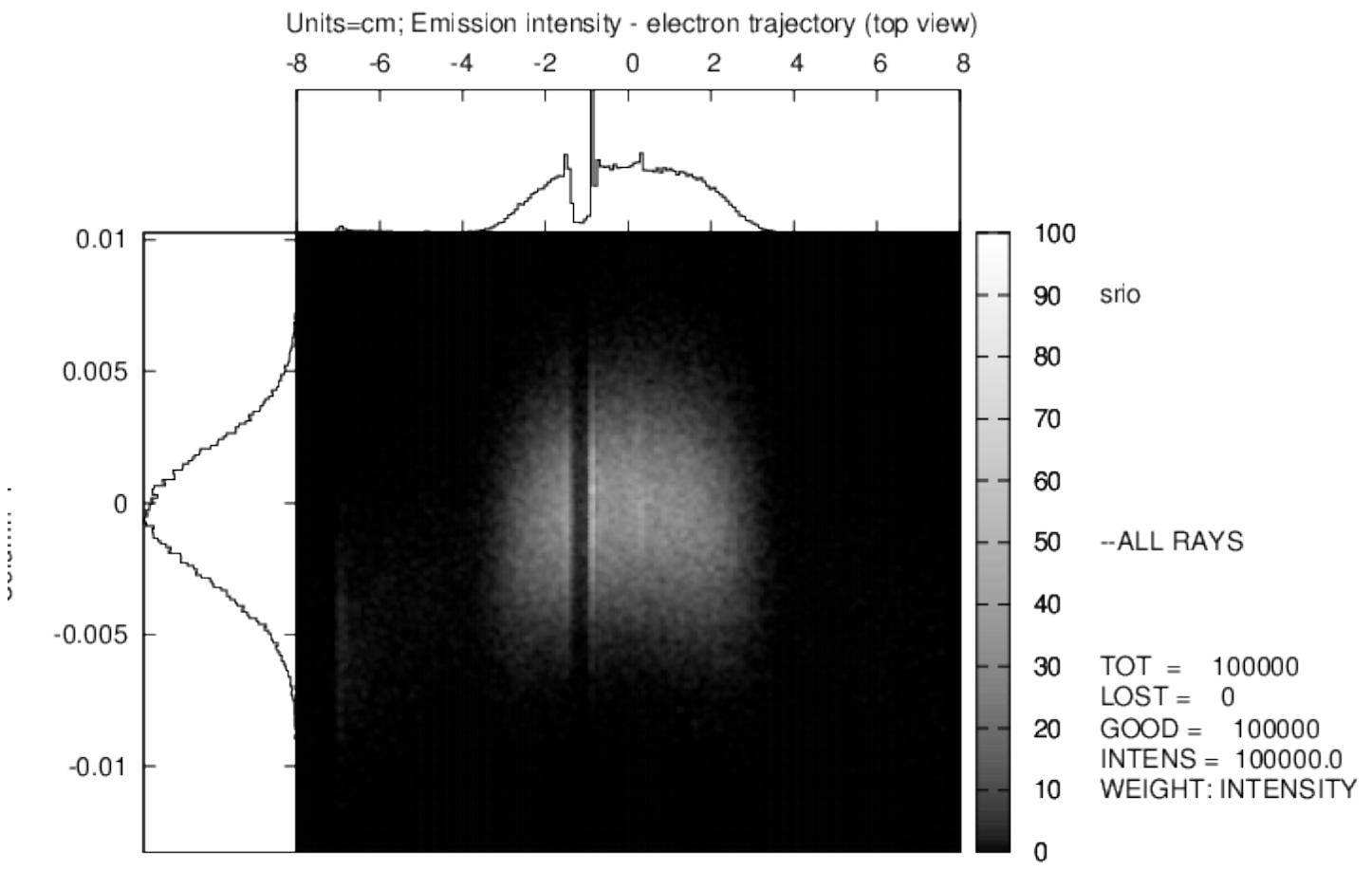
0.5.2.1. Divergence space

FW25M H: 2029.851 urad V: 221.393 urad
 FWHM H: 1820.896 urad V: 171.642 urad
 FW75M H: 1223.881 urad V: 114.428 urad



Column 4

0.5.2.2. Emission intensity - electron trajectory (top view)



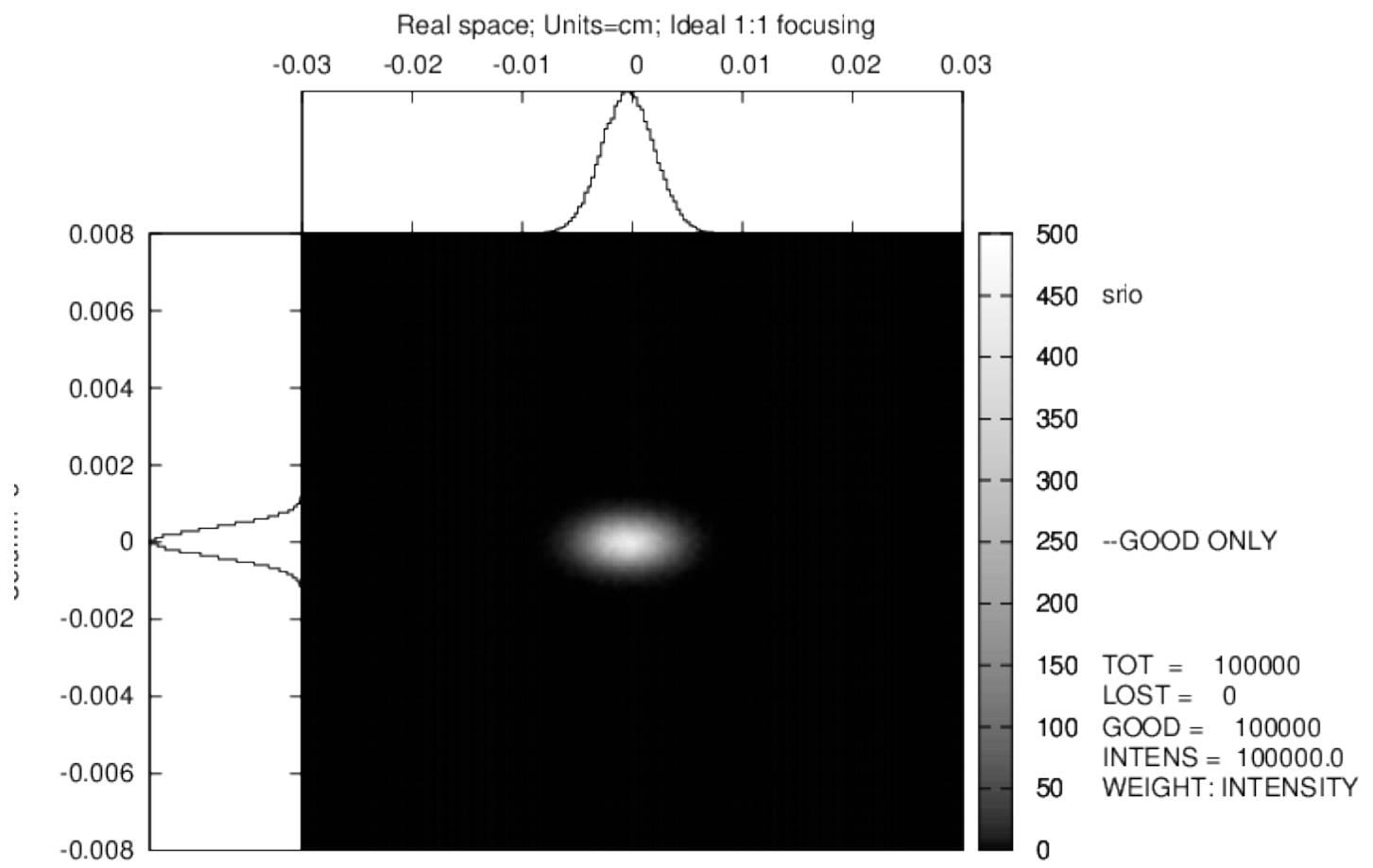
Column 2

0.5.2.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 50.746 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um



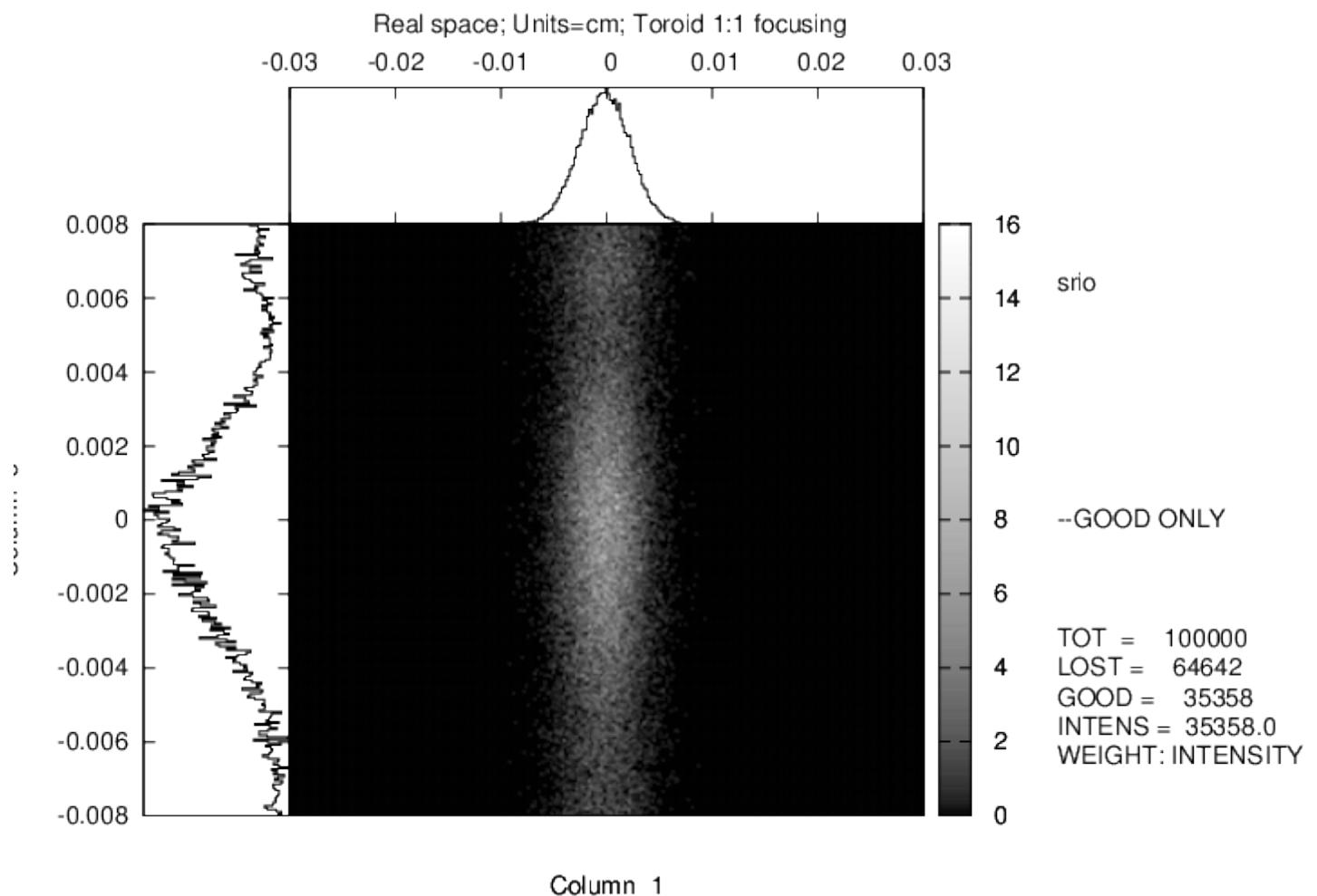
Column 1

0.5.2.4. Toroid 1:1 focusing

FW25M H: 79.734 um V: 157.874 um

FWHM H: 51.827 um V: 68.571 um

FW75M H: 31.894 um V: 32.957 um

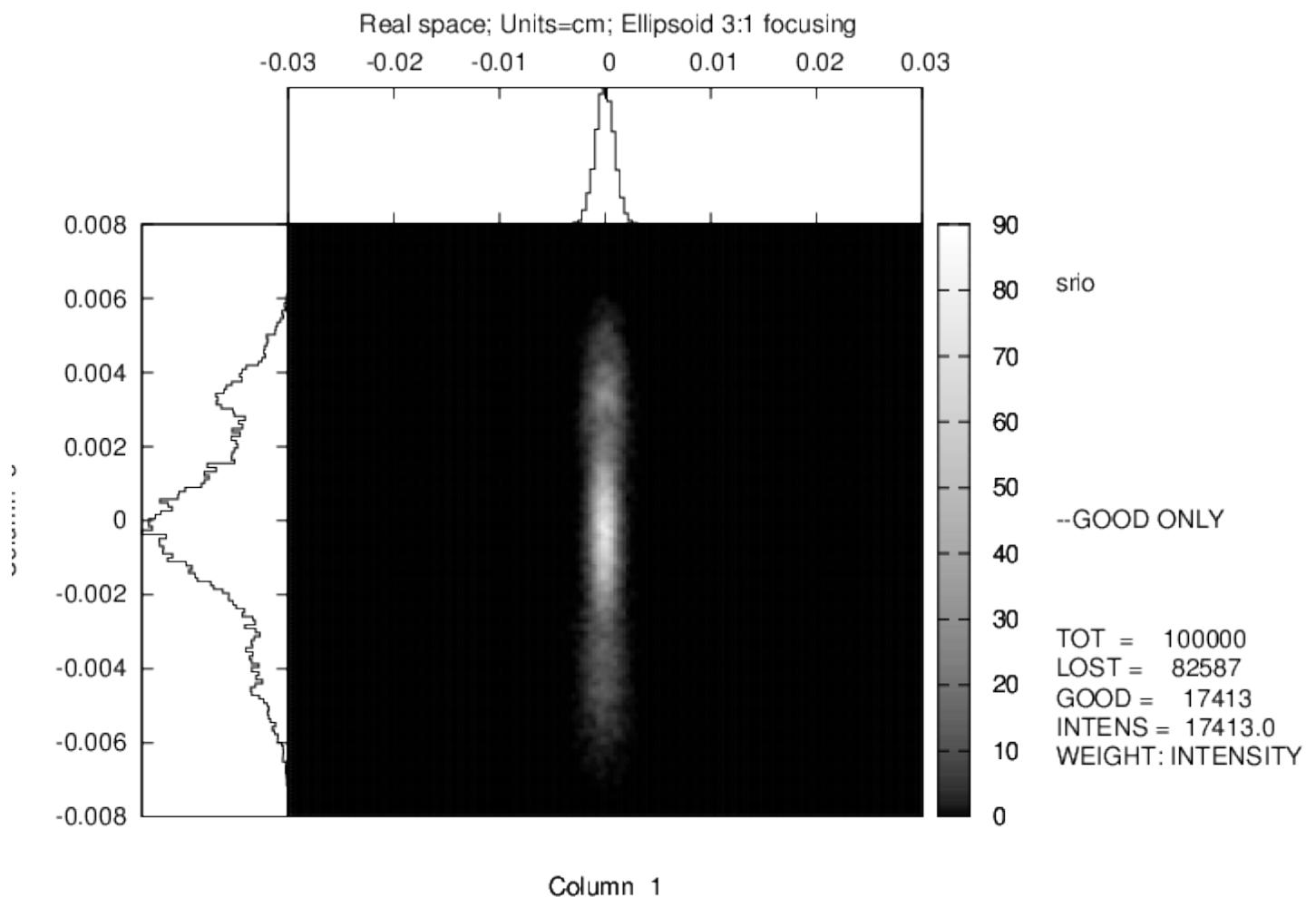


0.5.2.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 87.947 um

FWHM H: 15.894 um V: 32.848 um

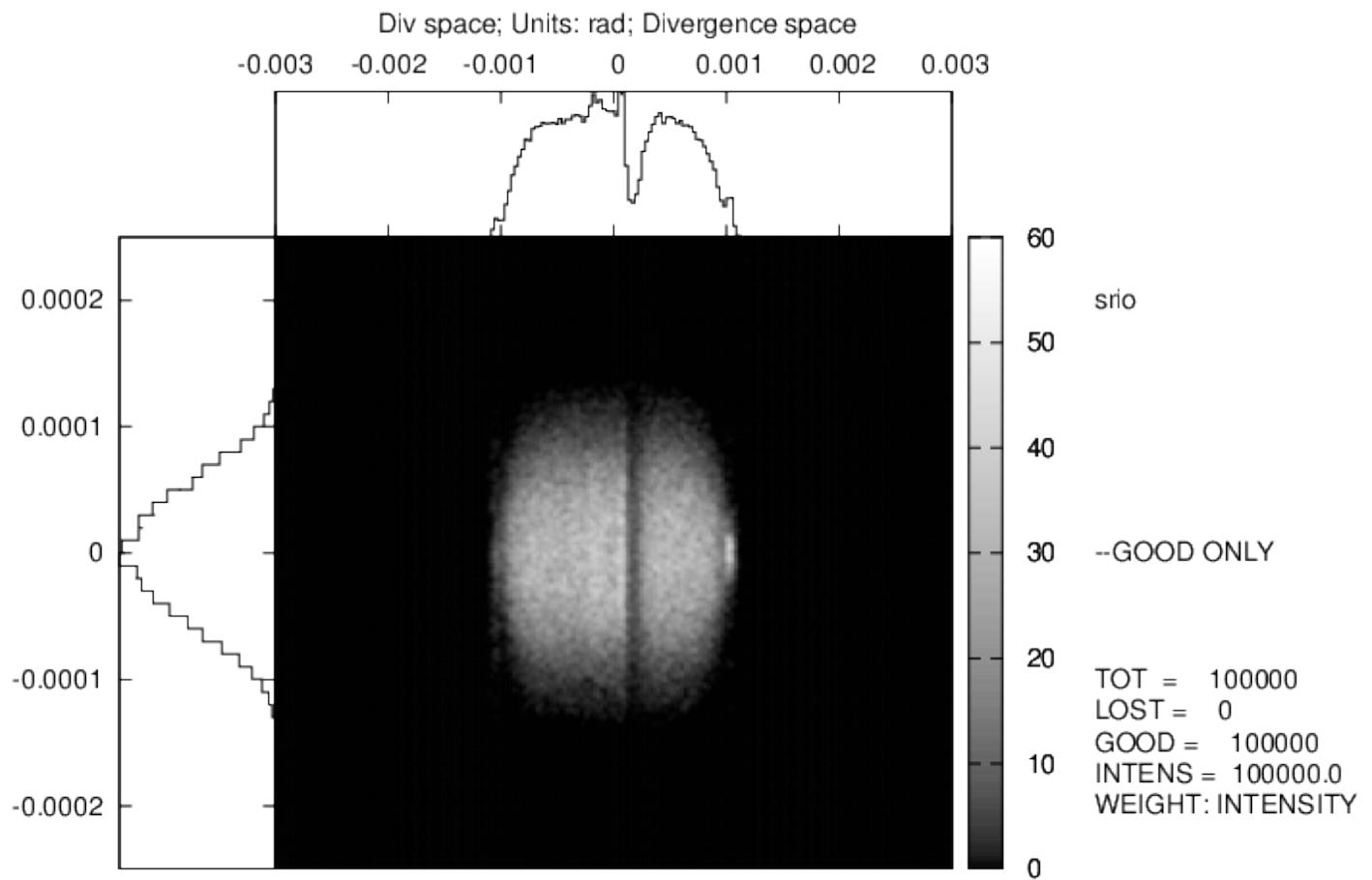
FW75M H: 7.947 um V: 16.954 um



0.5.3. Finite Emittance; magnetic field: 1Pcut; E=20 keV

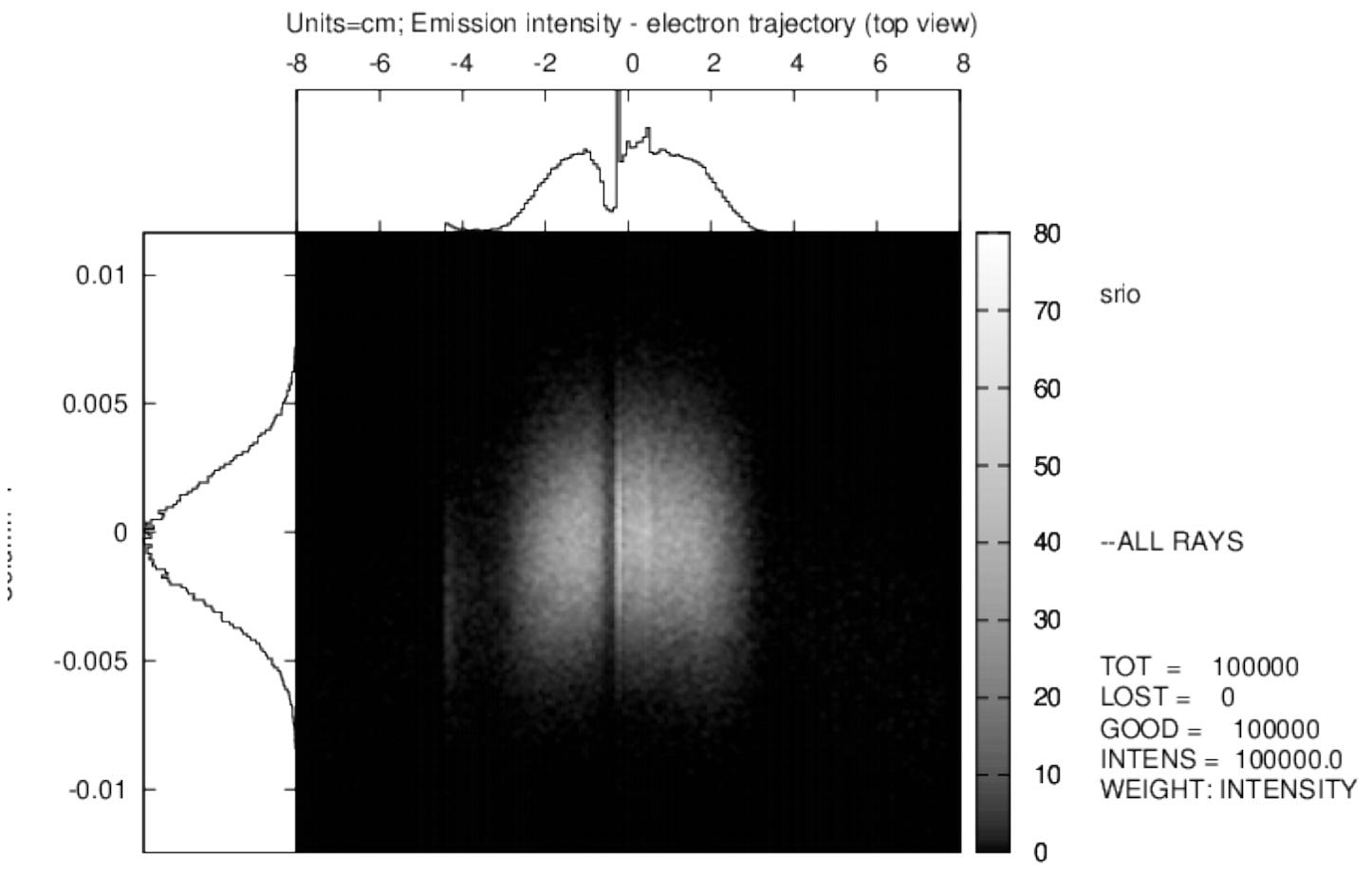
0.5.3.1. Divergence space

FW25M H: 1970.149 urad V: 159.204 urad
 FWHM H: 1701.493 urad V: 119.403 urad
 FW75M H: 1373.134 urad V: 72.139 urad



Column 4

0.5.3.2. Emission intensity - electron trajectory (top view)



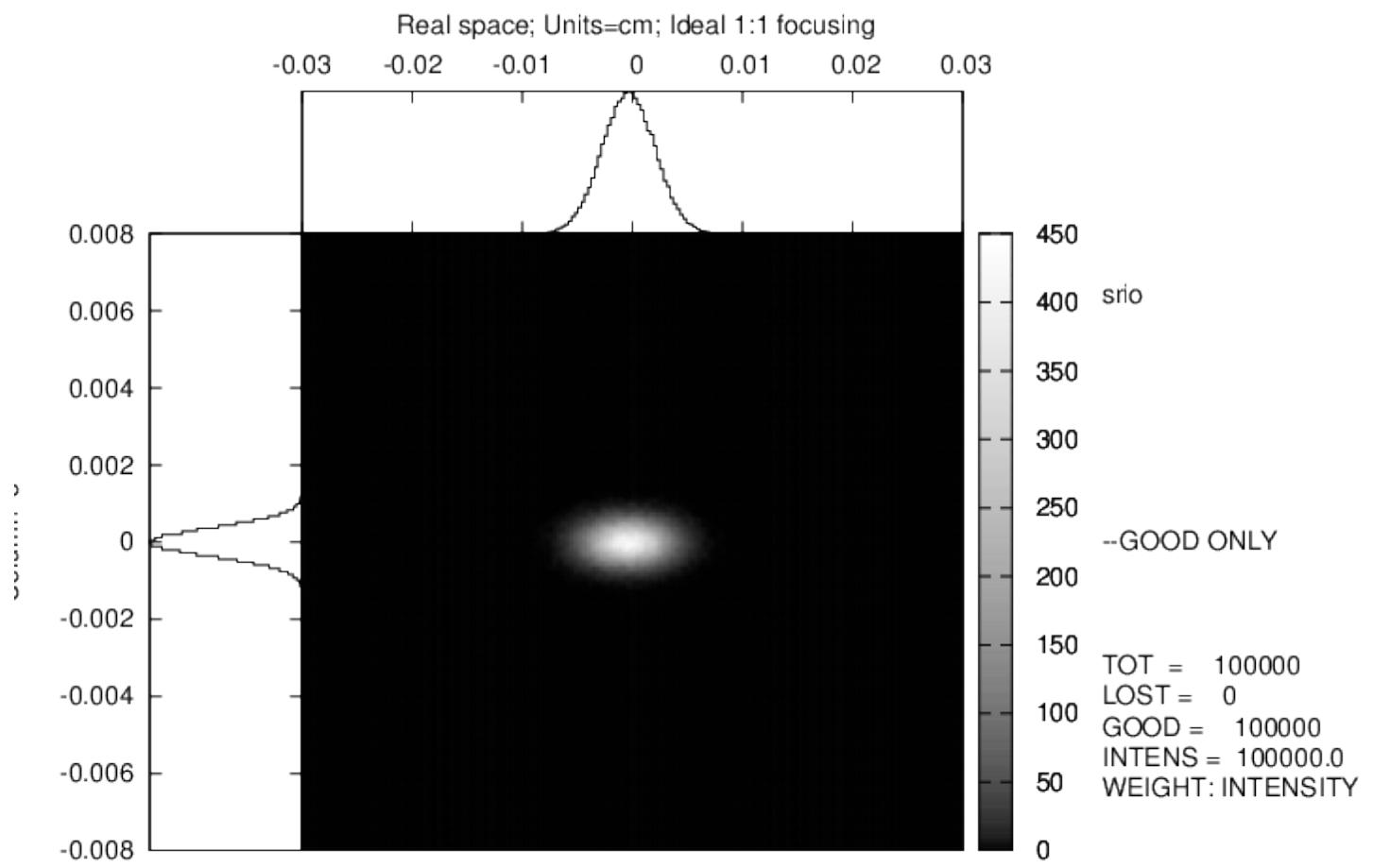
Column 2

0.5.3.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um



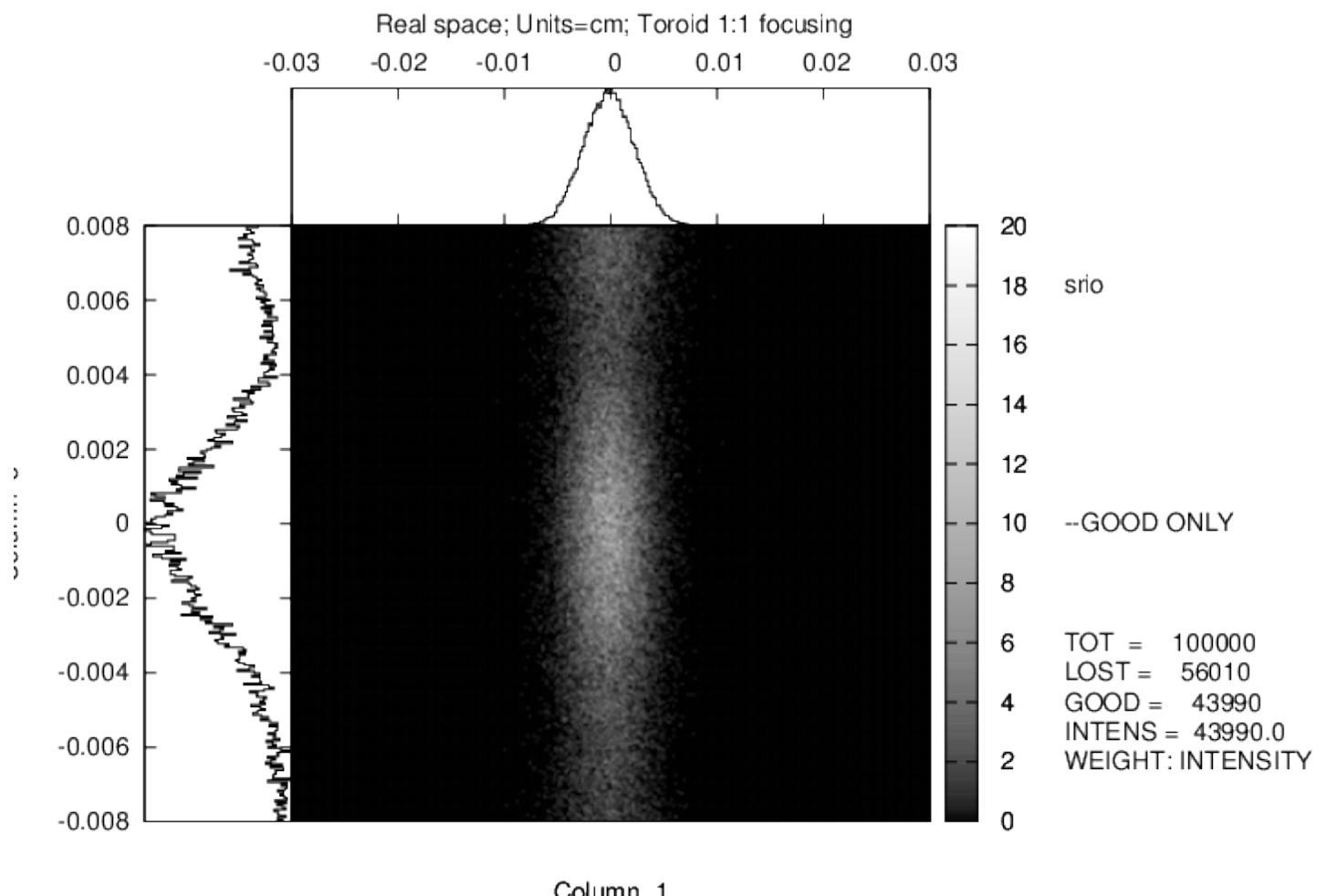
Column 1

0.5.3.4. Toroid 1:1 focusing

FW25M H: 75.748 um V: 156.811 um

FWHM H: 51.827 um V: 100.997 um

FW75M H: 31.894 um V: 41.993 um

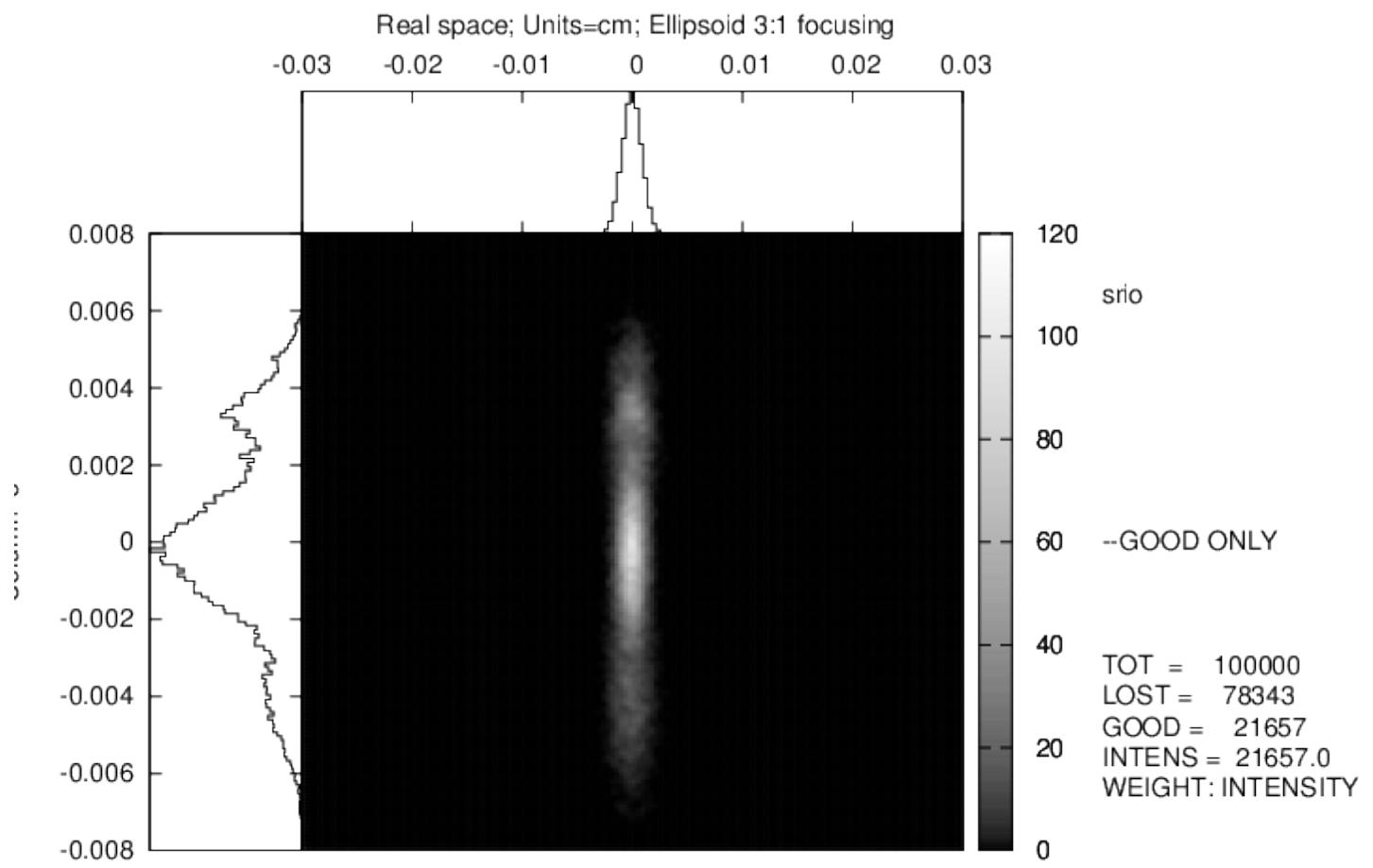


0.5.3.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 75.232 um

FWHM H: 15.894 um V: 50.861 um

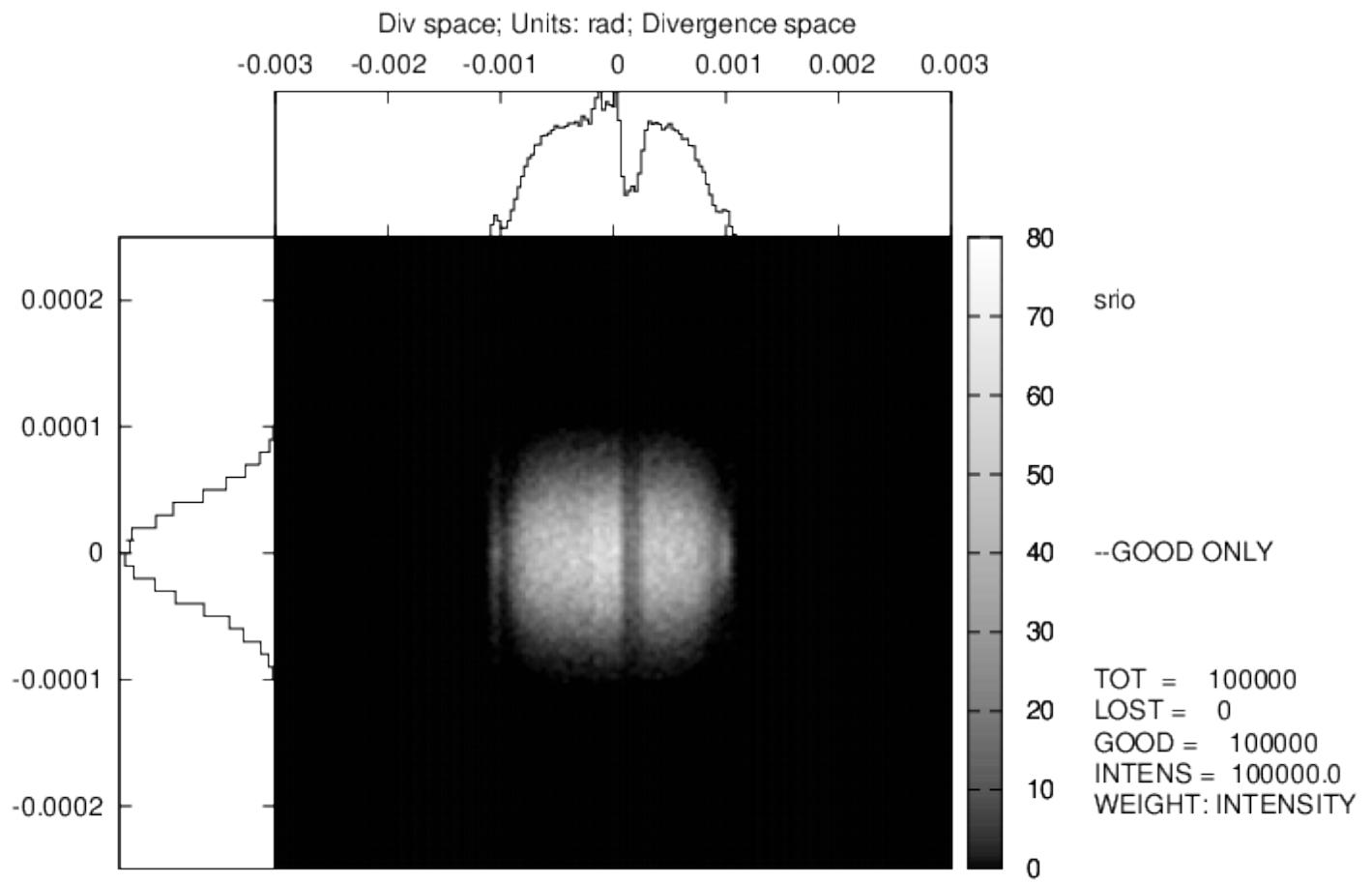
FW75M H: 7.947 um V: 13.775 um



0.5.4. Finite Emittance; magnetic field: 1Pcut; E=40 keV

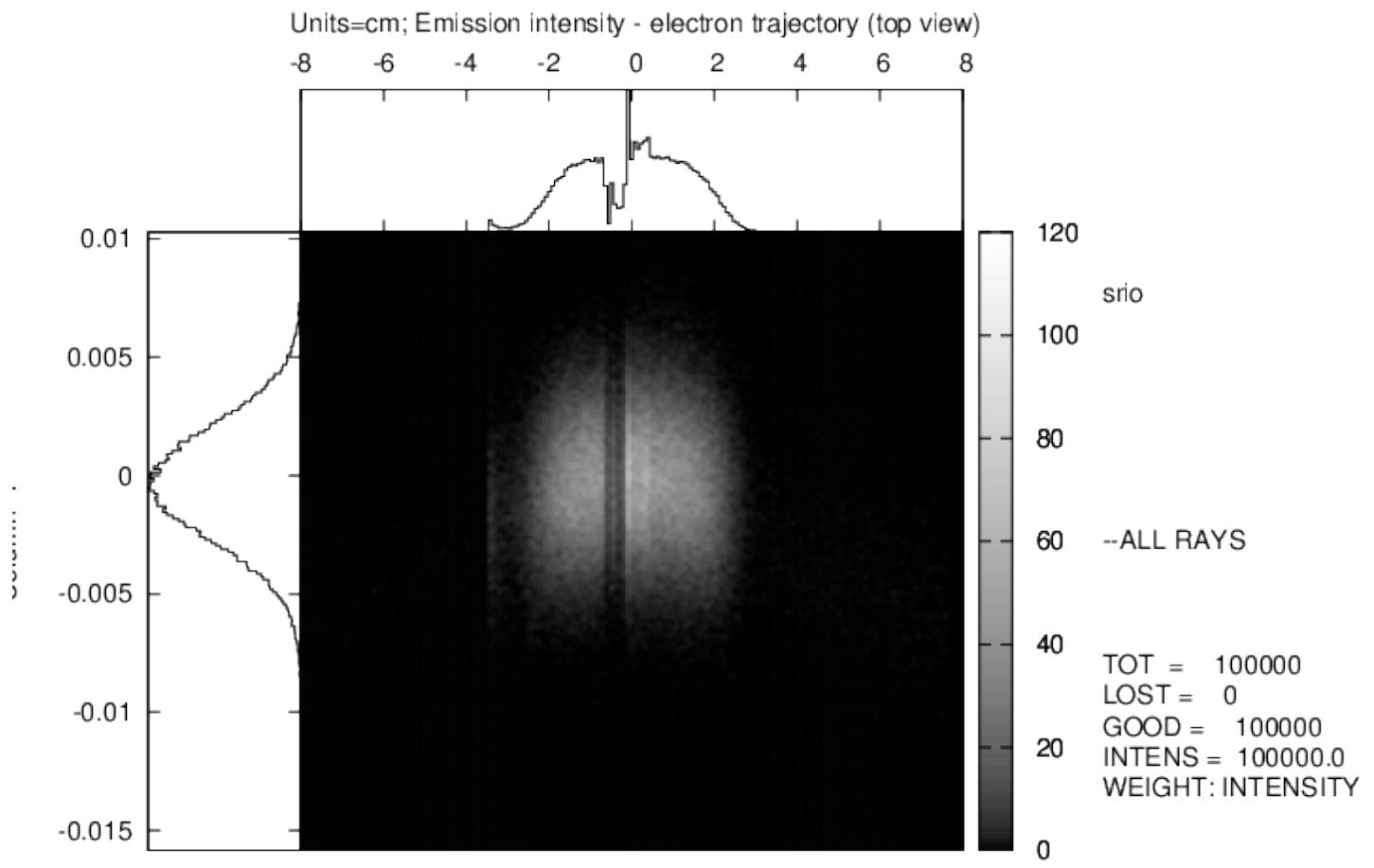
0.5.4.1. Divergence space

FW25M H: 1731.343 urad V: 114.428 urad
 FWHM H: 1492.537 urad V: 84.577 urad
 FW75M H: 1014.925 urad V: 52.239 urad



Column 4

0.5.4.2. Emission intensity - electron trajectory (top view)



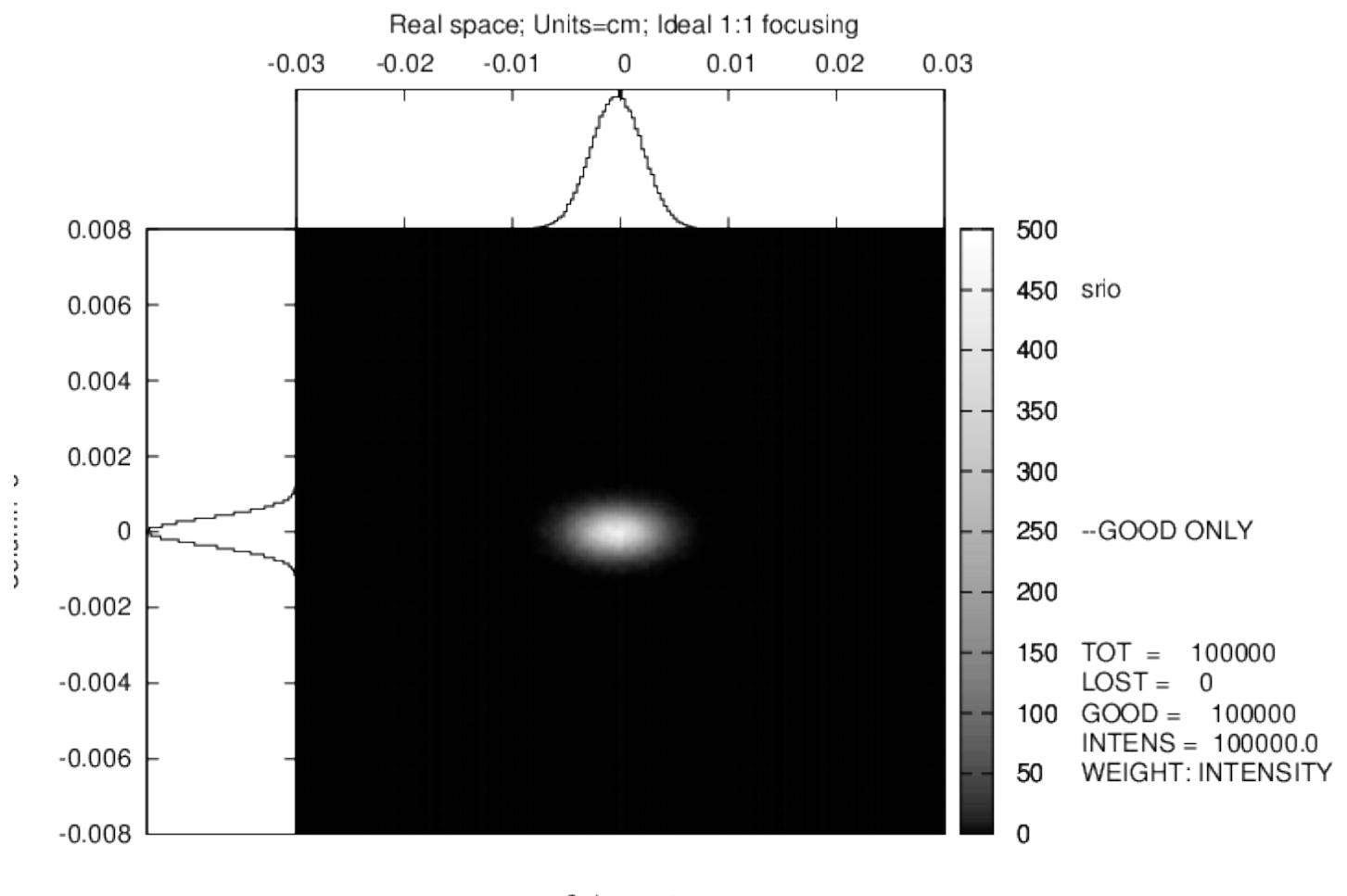
Column 2

0.5.4.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 29.851 um V: 4.776 um



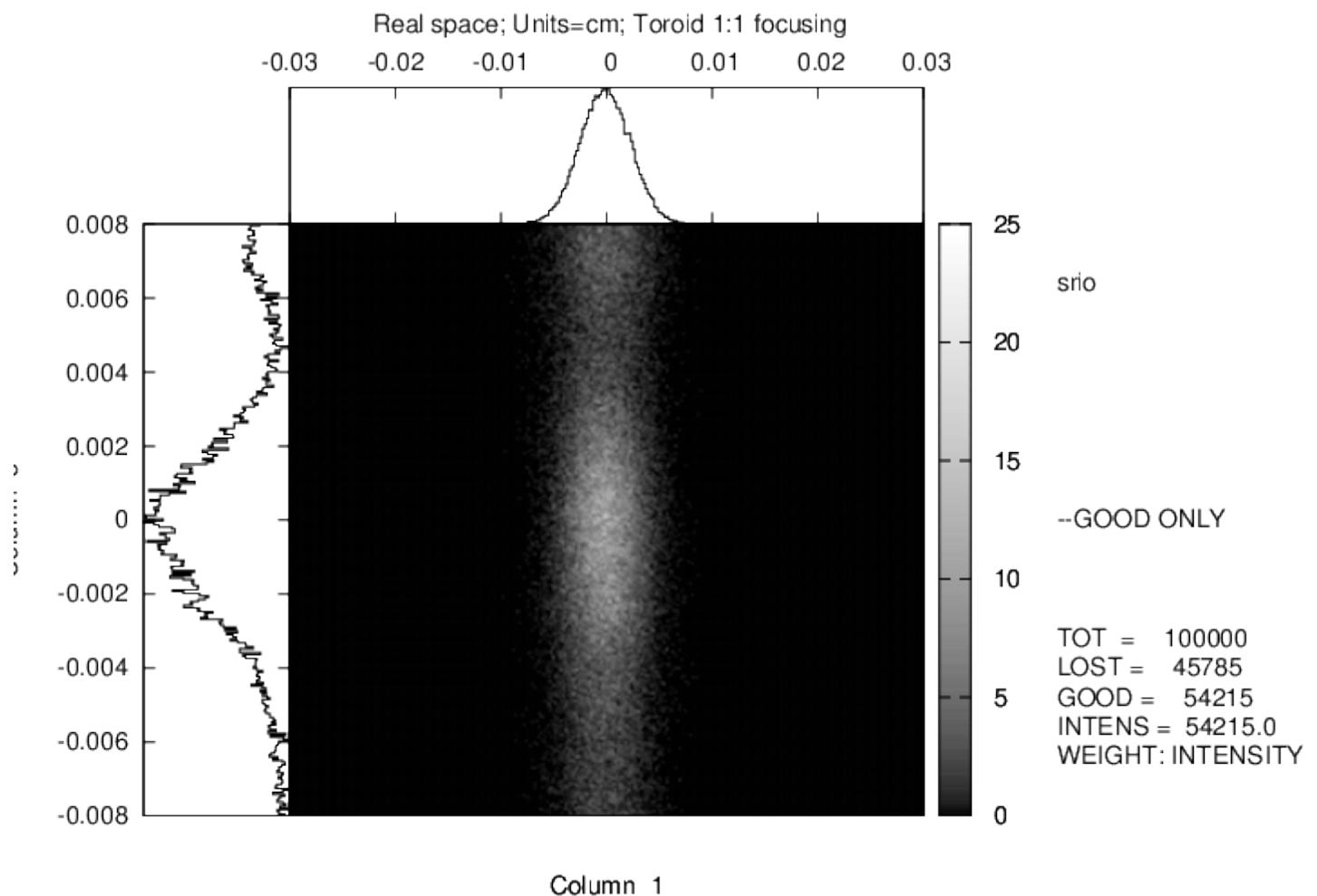
Column 1

0.5.4.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 143.522 um

FWHM H: 55.814 um V: 55.282 um

FW75M H: 33.887 um V: 38.272 um

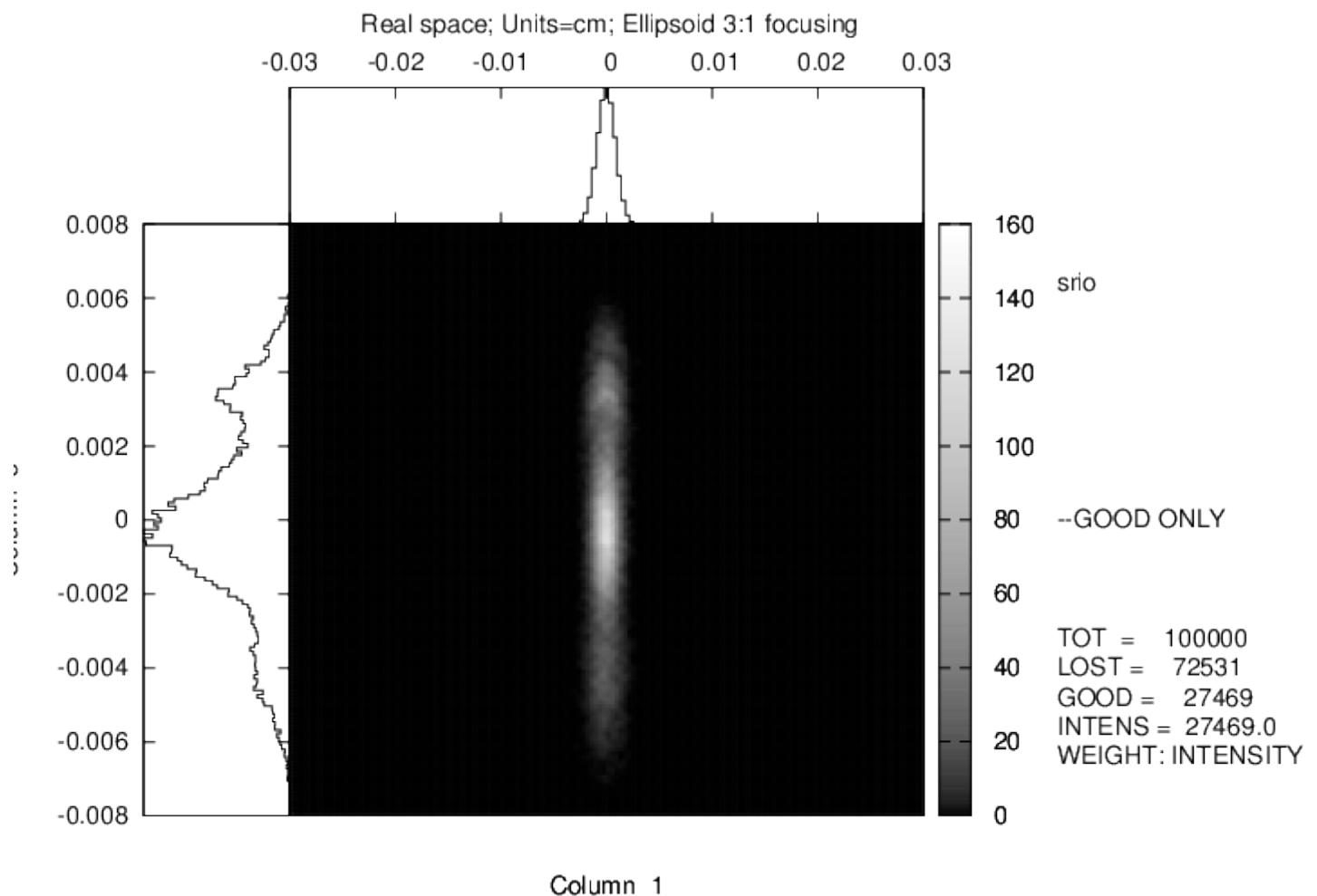


0.5.4.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 76.291 um

FWHM H: 15.894 um V: 49.801 um

FW75M H: 7.947 um V: 15.894 um



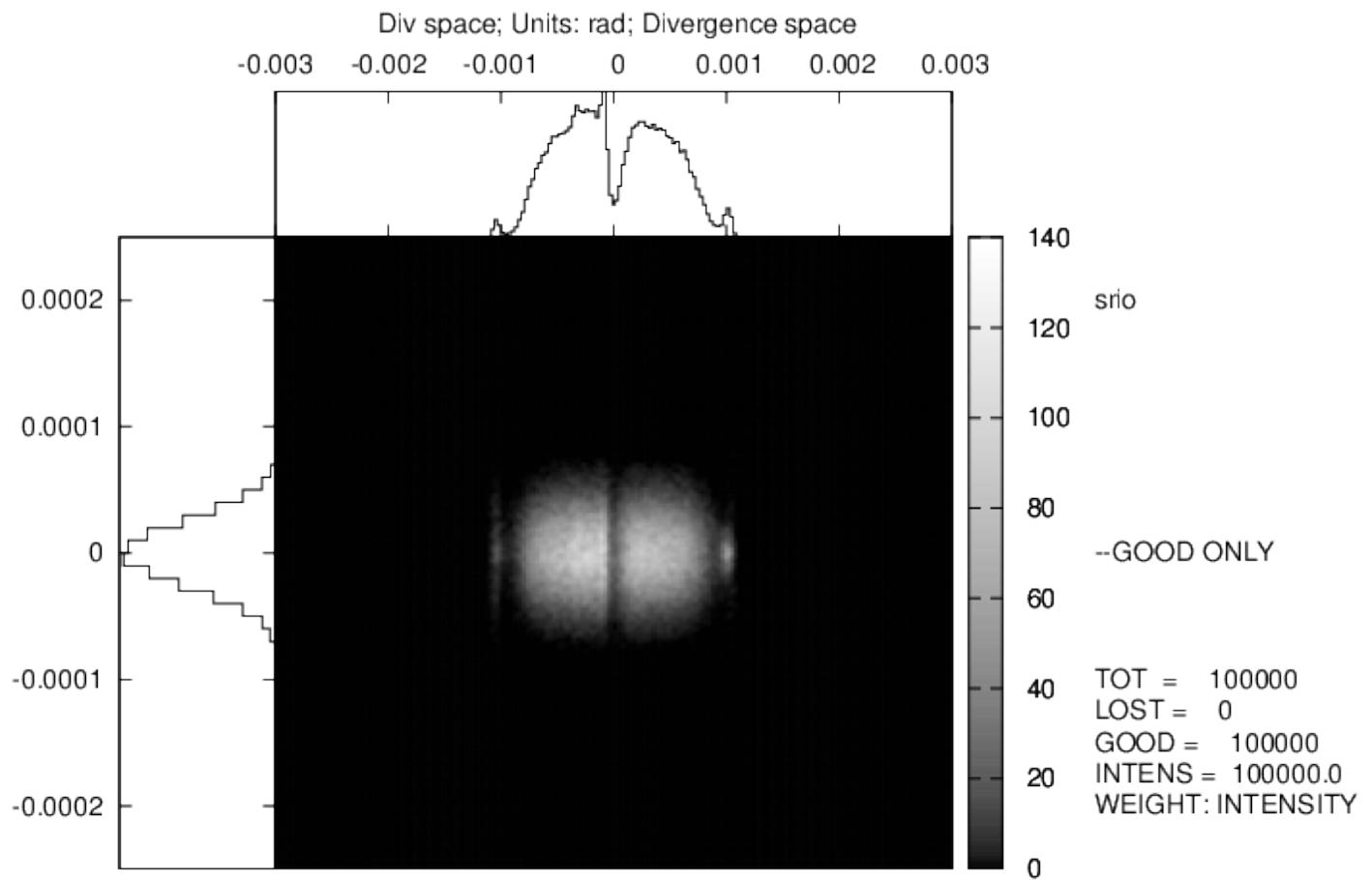
Column 1

0.5.5. Finite Emittance; magnetic field: 1Pcut; E=80 keV

0.5.5.1. Divergence space

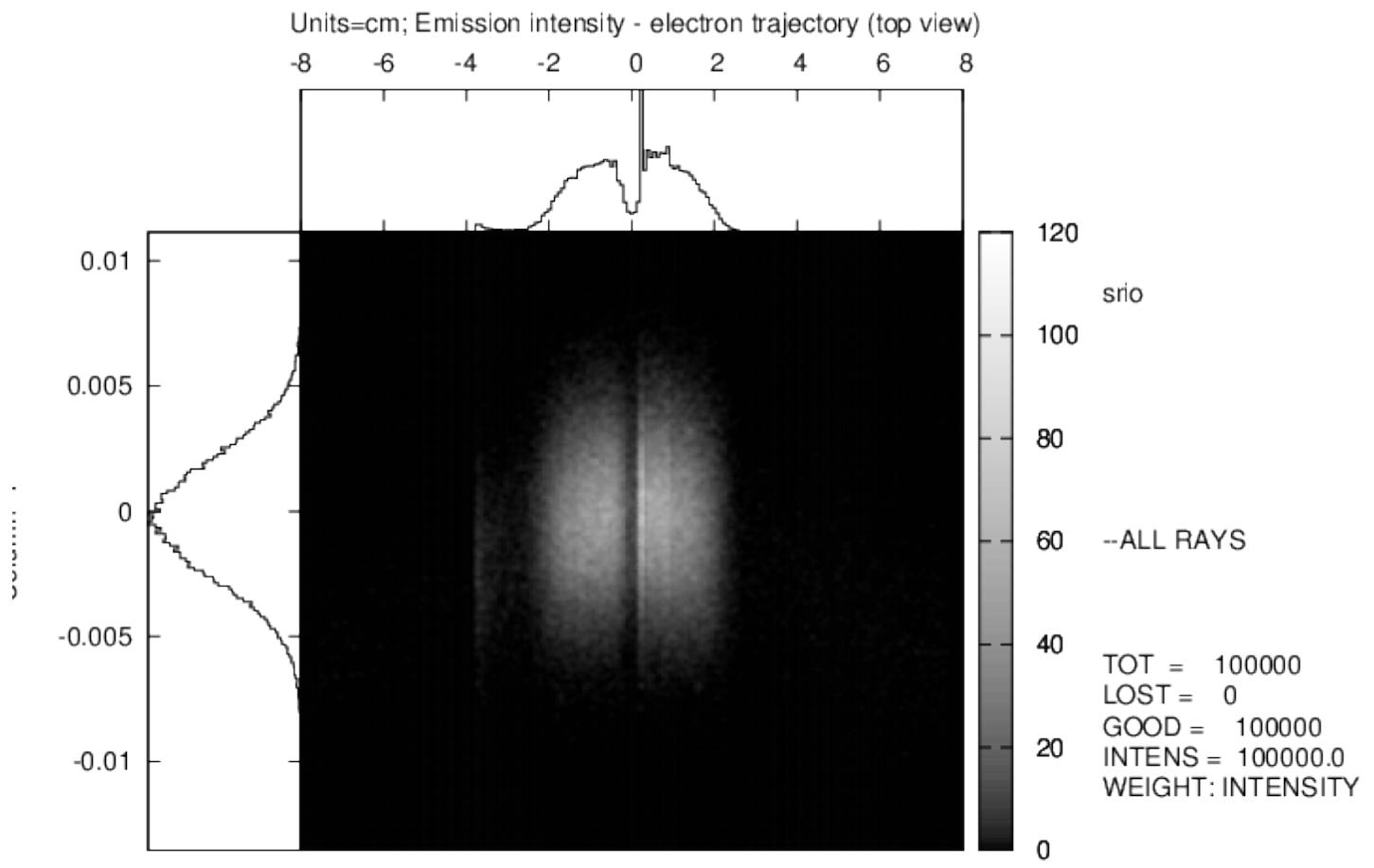
```

FW25M H: 1552.239 urad V: 79.602 urad
FWHM H: 1313.433 urad V: 59.701 urad
FW75M H: 746.269 urad V: 34.826 urad
  
```



Column 4

0.5.5.2. Emission intensity - electron trajectory (top view)



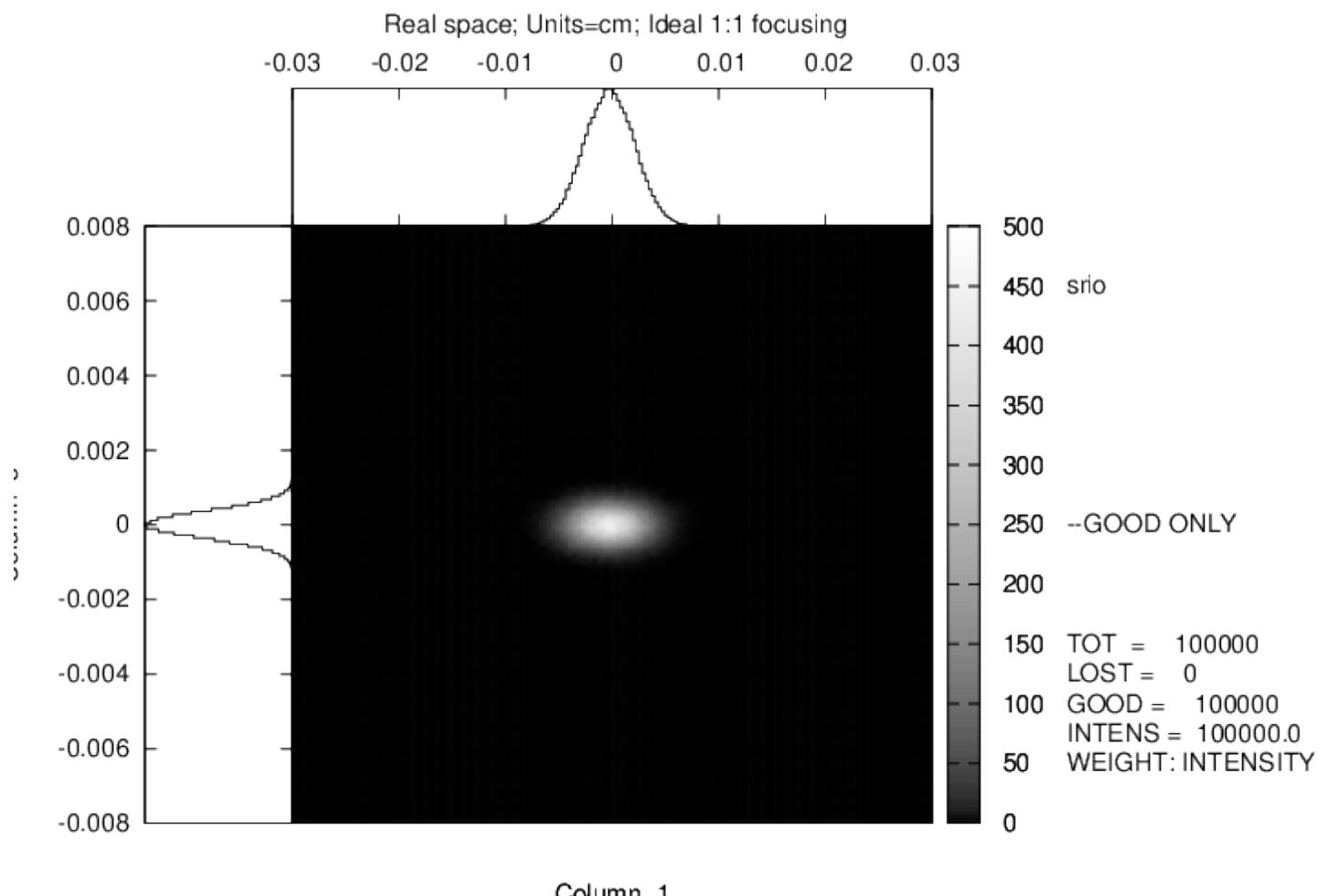
Column 2

0.5.5.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um

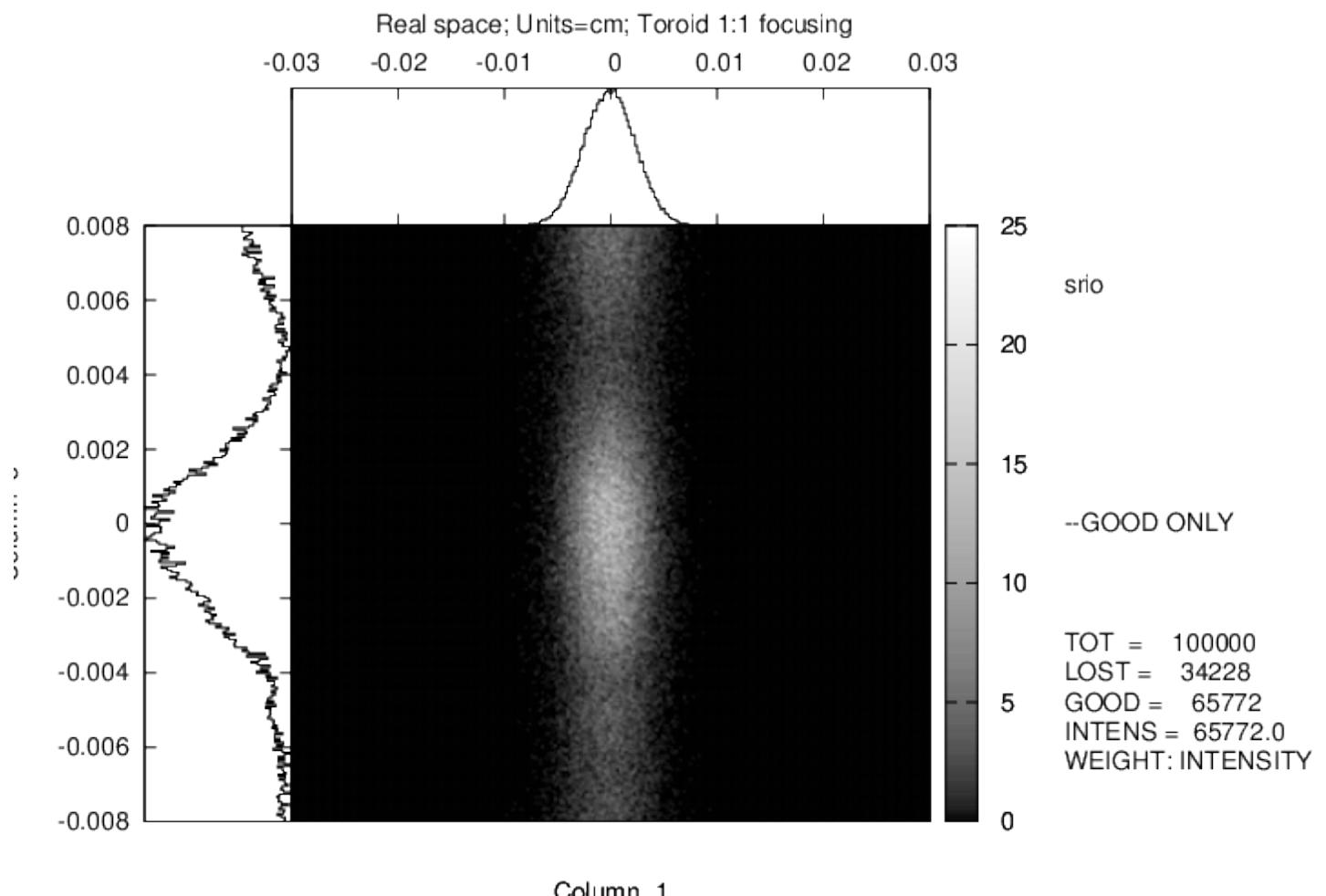


0.5.5.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 140.332 um

FWHM H: 53.821 um V: 52.625 um

FW75M H: 33.887 um V: 30.299 um

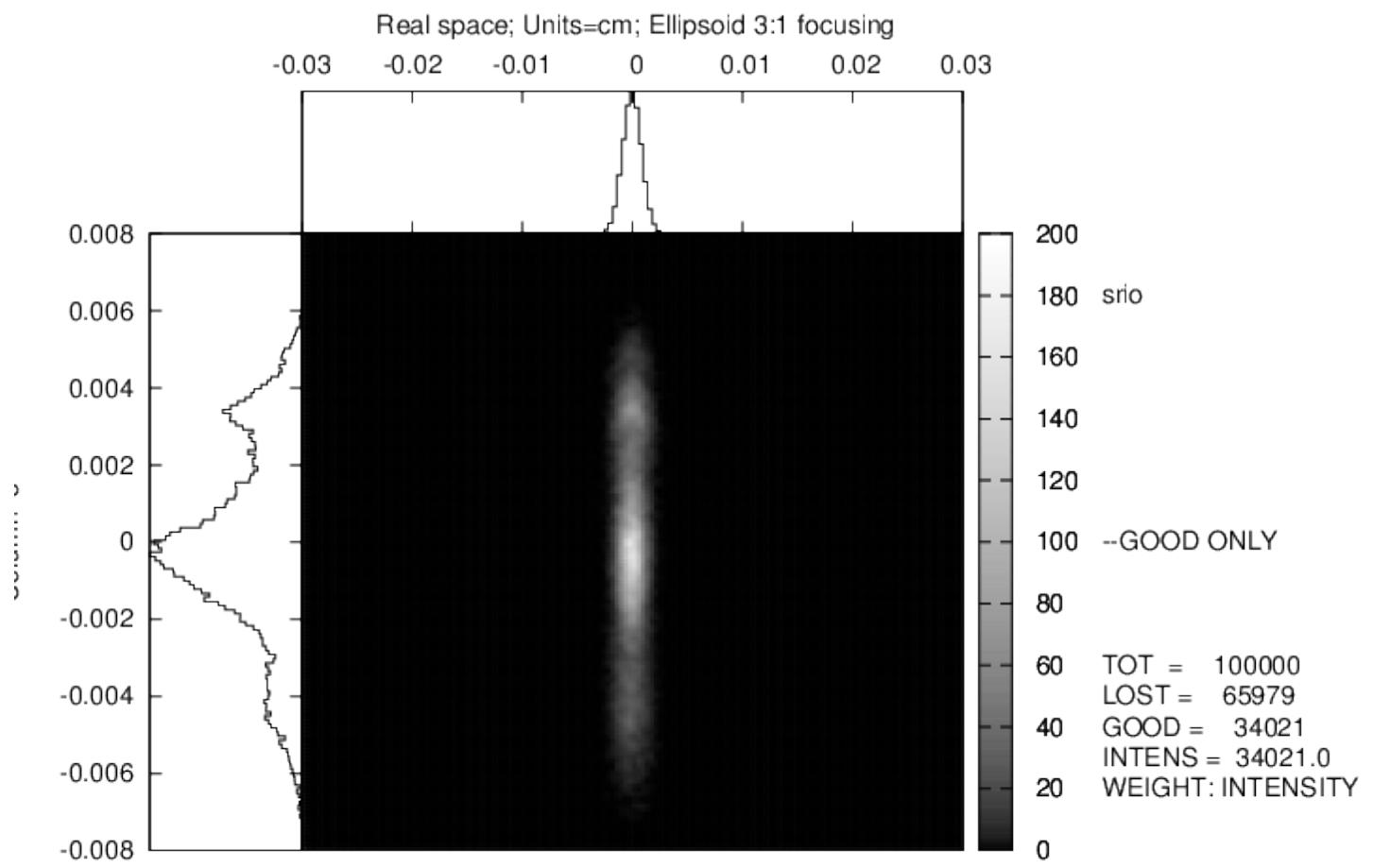


0.5.5.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 66.755 um

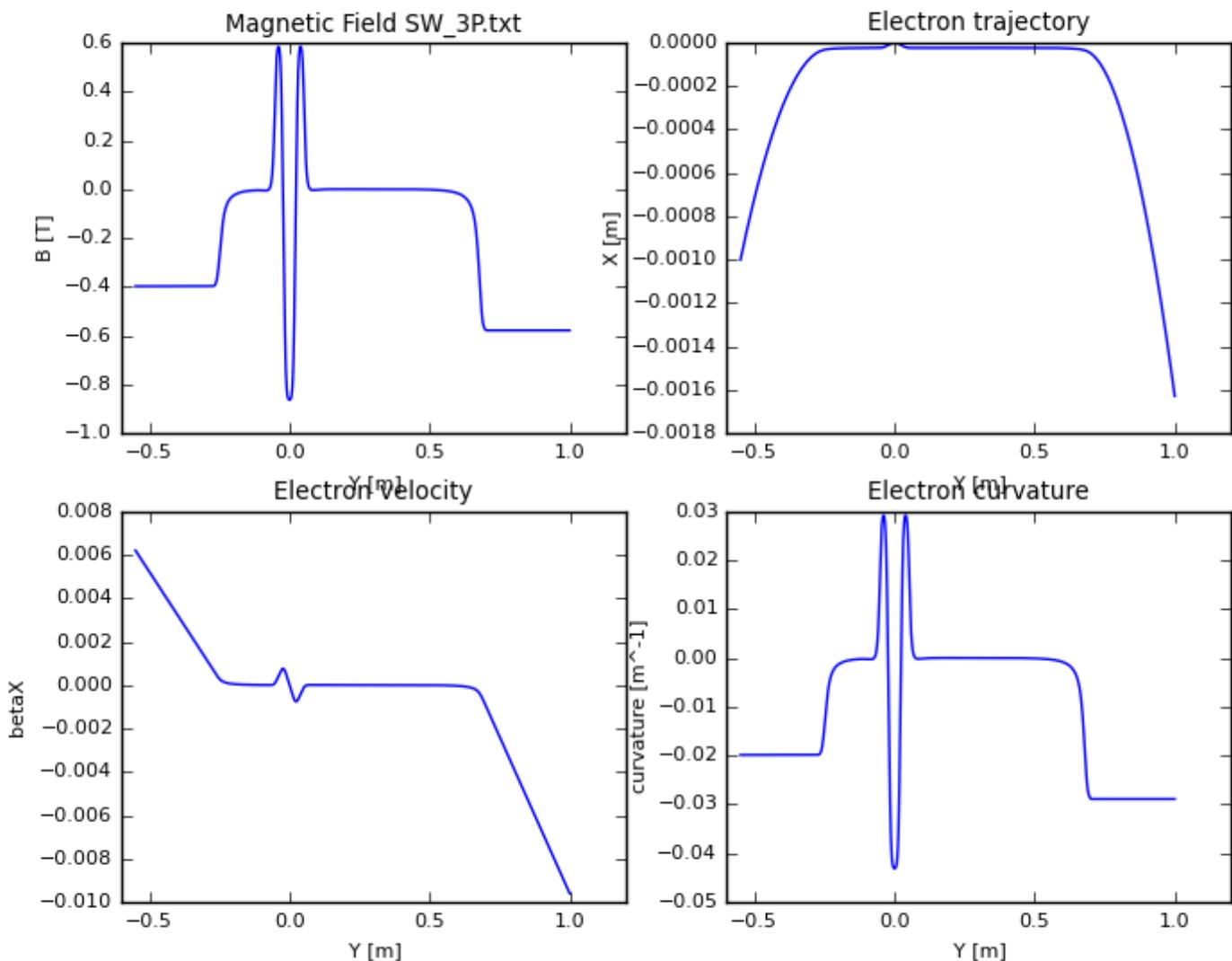
FWHM H: 15.894 um V: 50.861 um

FW75M H: 7.947 um V: 12.715 um



Column 1

0.6. Finite Emittance; magnetic field: 3P



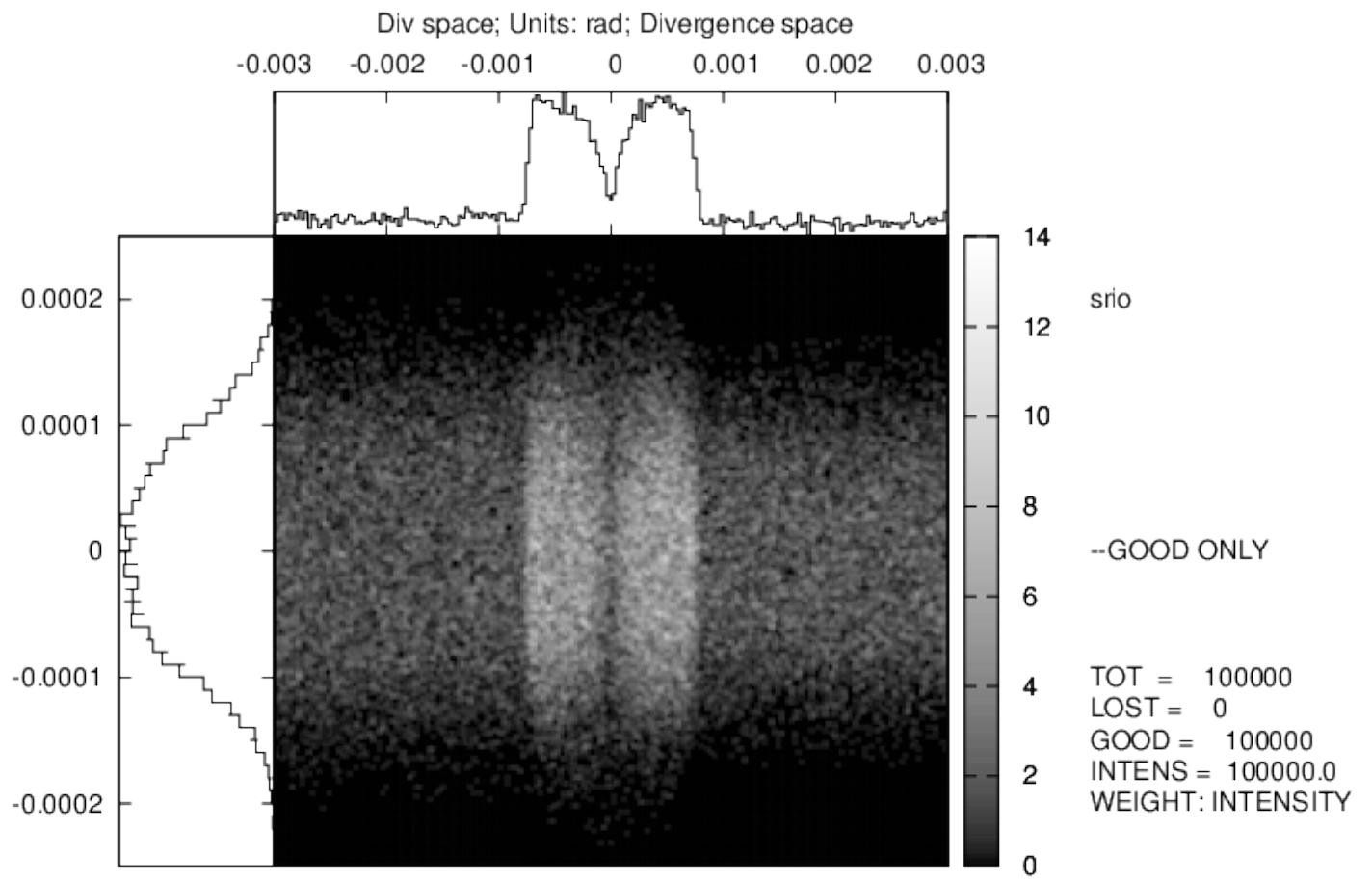
0.6.1. Finite Emittance; magnetic field: 3P; E=5 keV

0.6.1.1. Divergence space

FW25M H: 5970.149 urad V: 258.706 urad

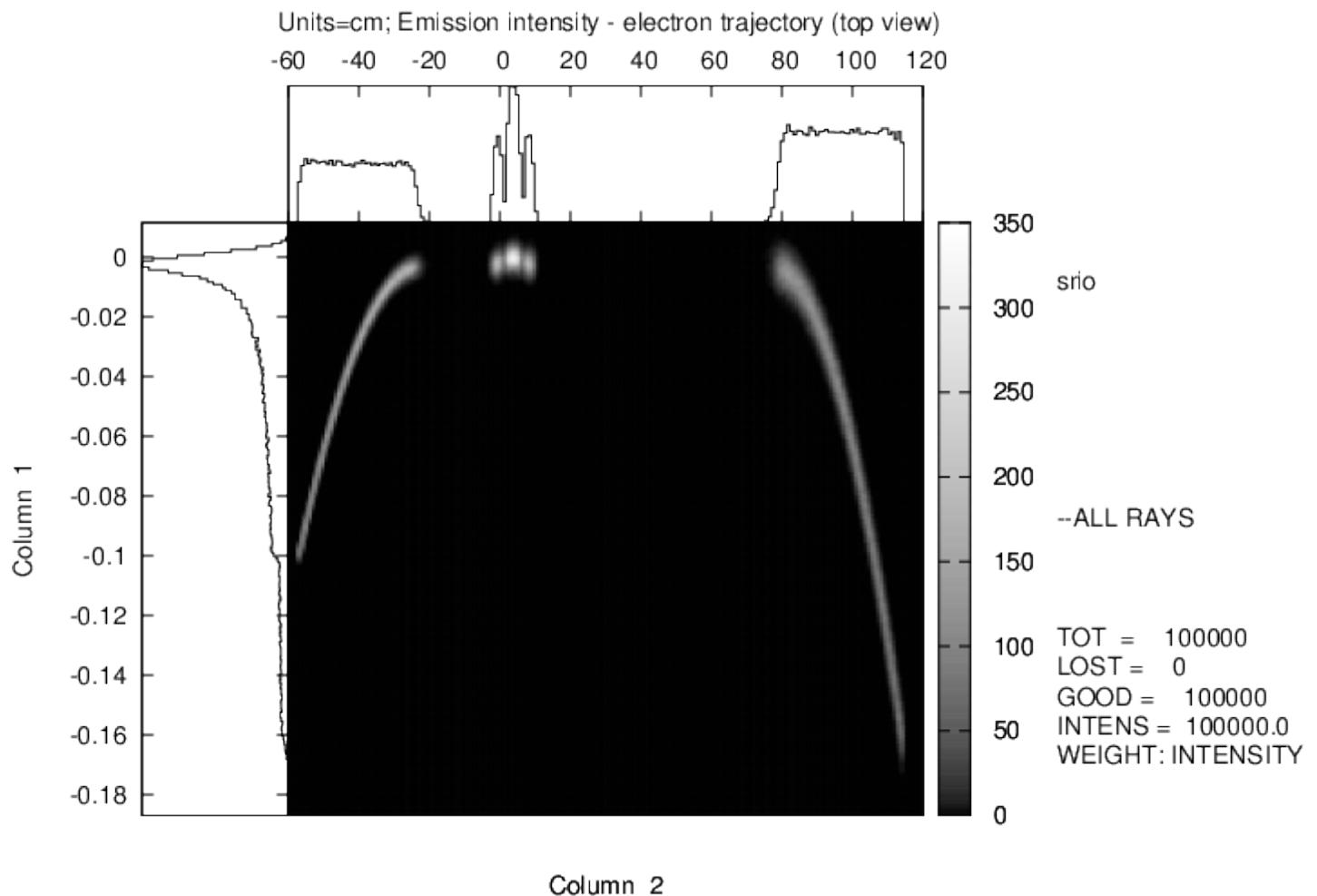
FWHM H: 1492.537 urad V: 201.493 urad

FW75M H: 1432.836 urad V: 144.279 urad



Column 4

0.6.1.2. Emission intensity - electron trajectory (top view)

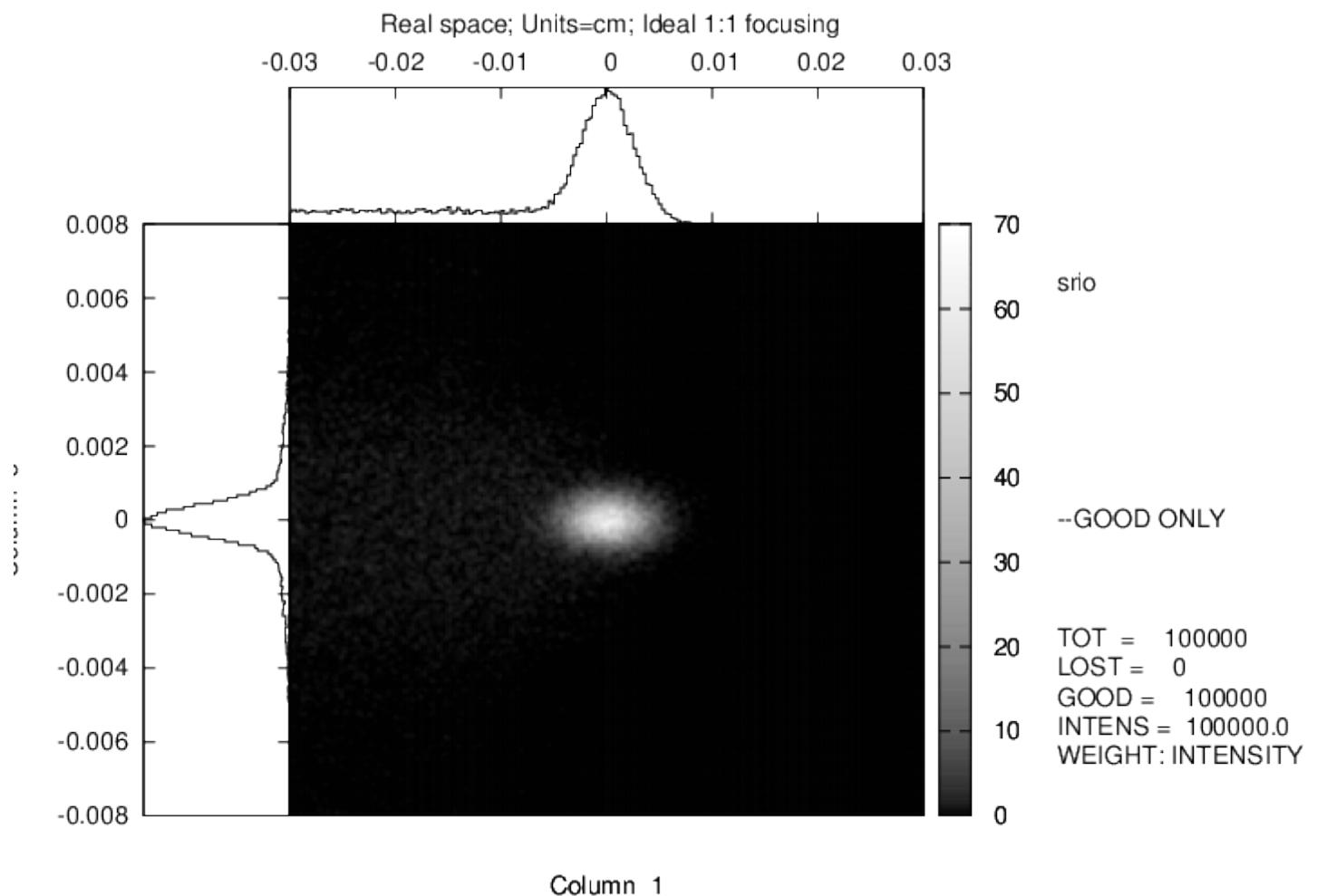


0.6.1.3. Ideal 1:1 focusing

FW25M H: 83.582 um V: 13.532 um

FWHM H: 56.716 um V: 9.552 um

FW75M H: 32.836 um V: 5.572 um



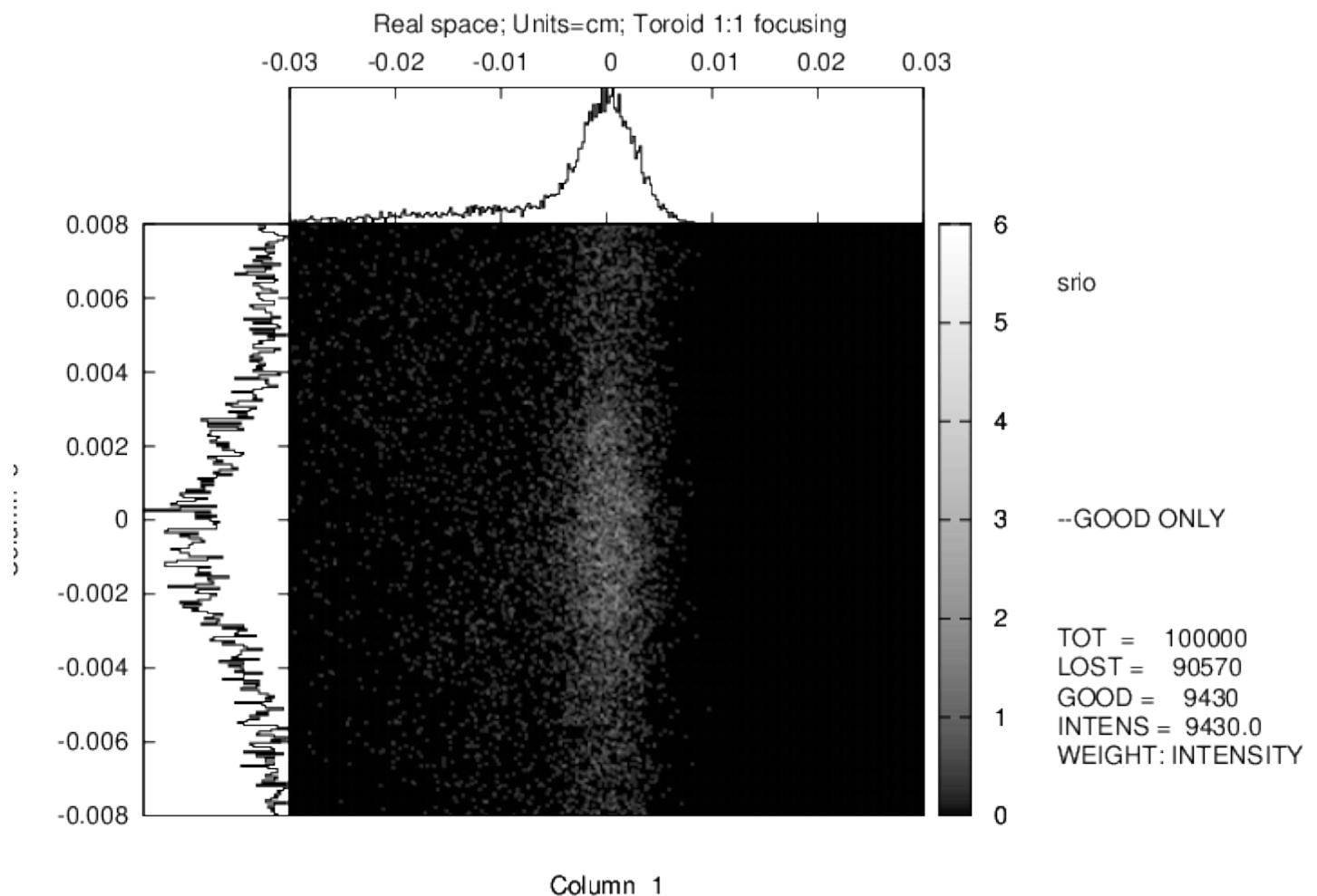
Column 1

0.6.1.4. Toroid 1:1 focusing

FW25M H: 85.714 um V: 157.342 um

FWHM H: 57.807 um V: 74.419 um

FW75M H: 33.887 um V: 30.299 um

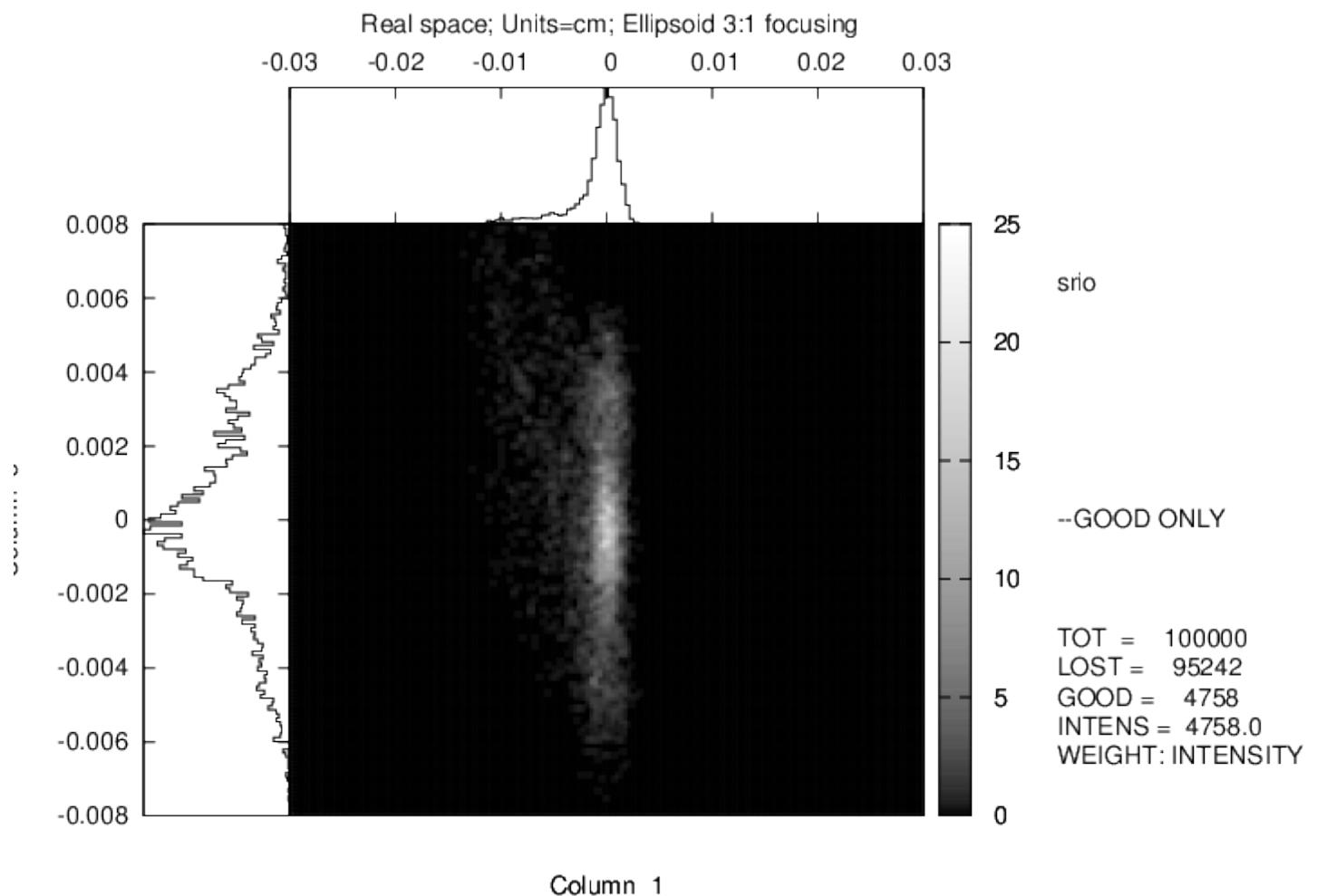


0.6.1.5. Ellipsoid 3:1 focusing

FW25M H: 31.788 um V: 77.351 um

FWHM H: 15.894 um V: 50.861 um

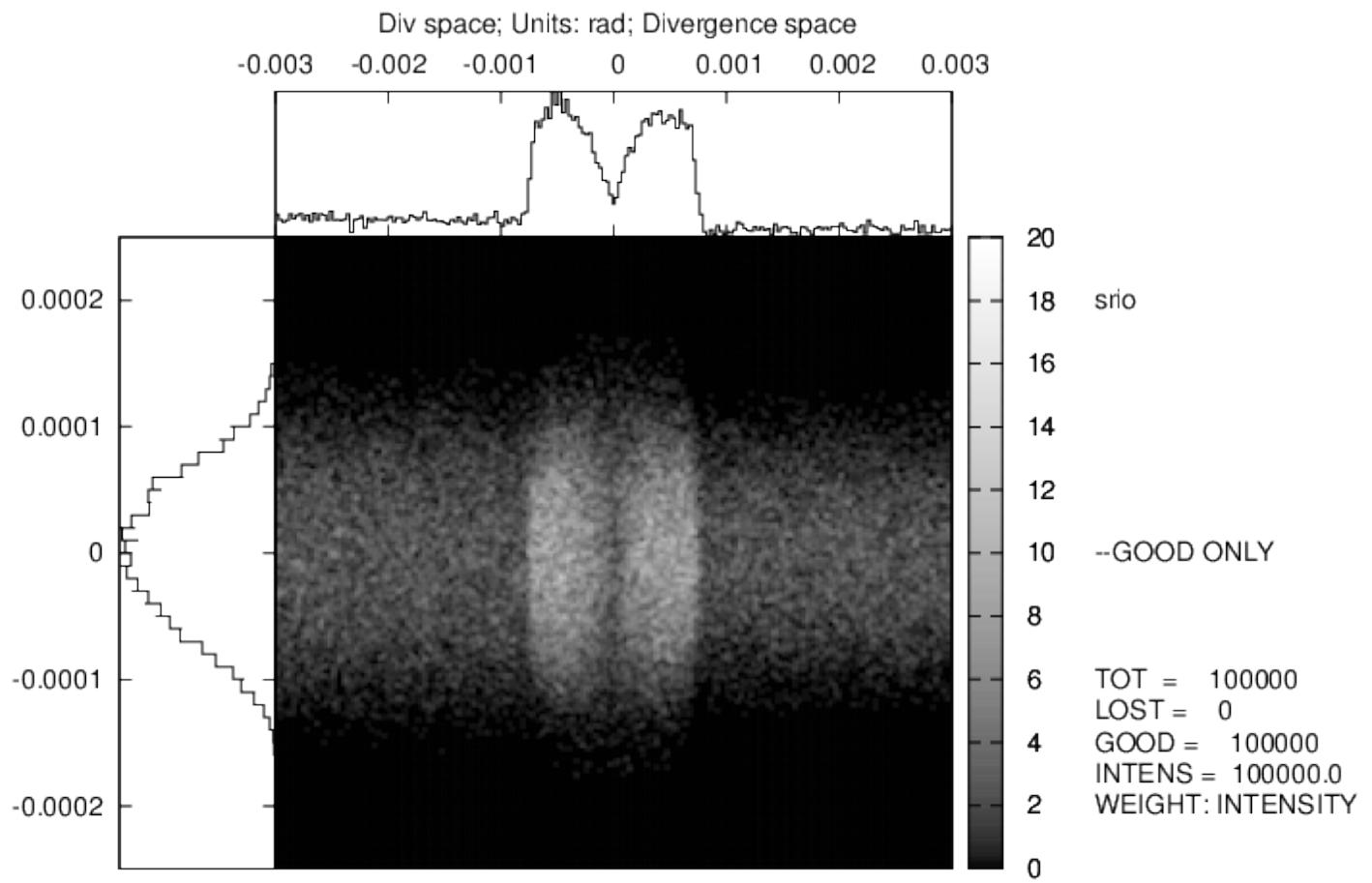
FW75M H: 11.921 um V: 16.954 um



0.6.2. Finite Emittance; magnetic field: 3P; E=10 keV

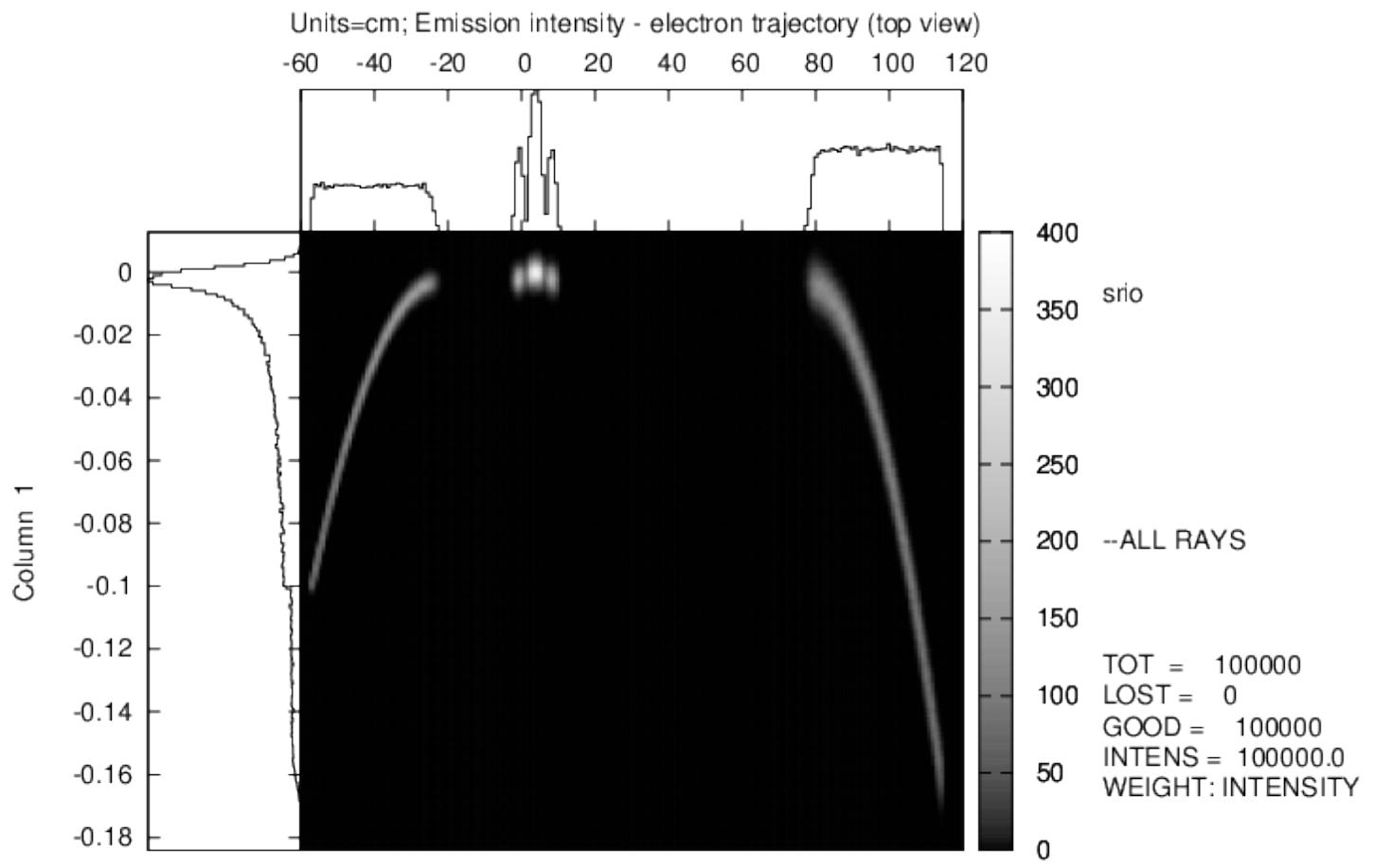
0.6.2.1. Divergence space

FW25M H: 5820.896 urad V: 196.517 urad
 FWHM H: 1462.687 urad V: 144.279 urad
 FW75M H: 1373.134 urad V: 106.965 urad



Column 4

0.6.2.2. Emission intensity - electron trajectory (top view)

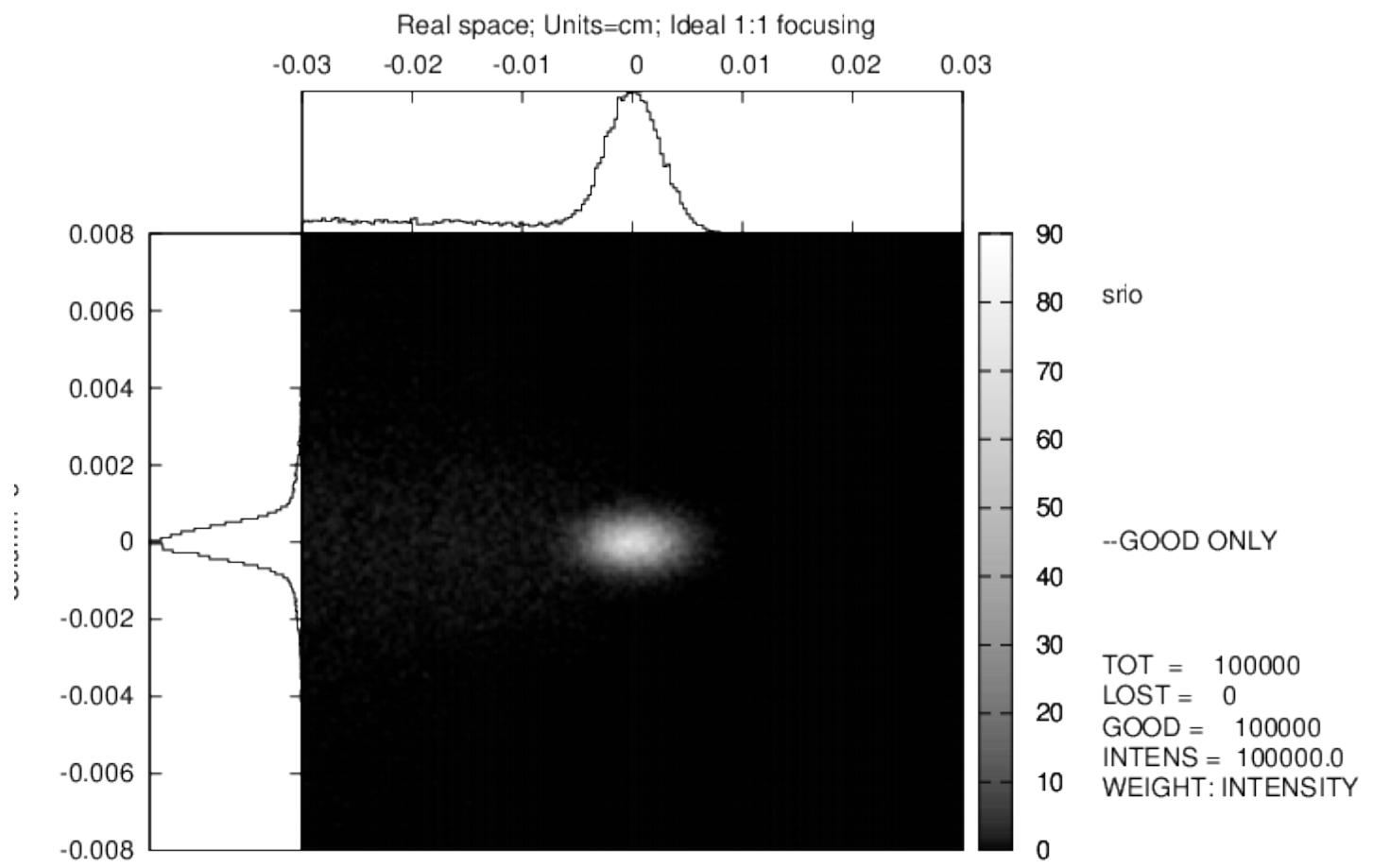


0.6.2.3. Ideal 1:1 focusing

FW25M H: 80.597 um V: 12.736 um

FWHM H: 53.731 um V: 8.756 um

FW75M H: 32.836 um V: 4.776 um



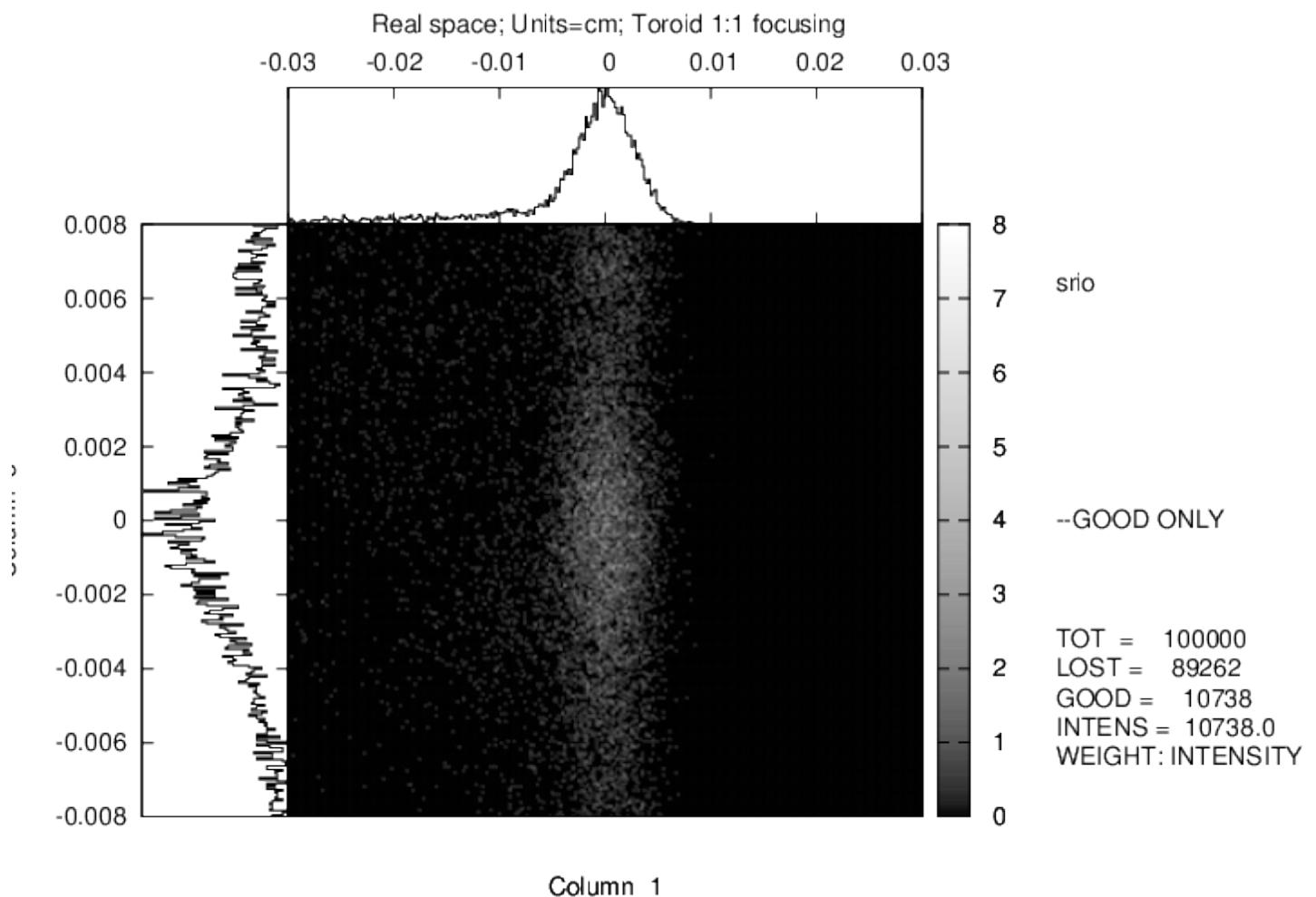
Column 1

0.6.2.4. Toroid 1:1 focusing

FW25M H: 93.688 um V: 152.027 um

FWHM H: 61.794 um V: 76.013 um

FW75M H: 35.880 um V: 28.704 um

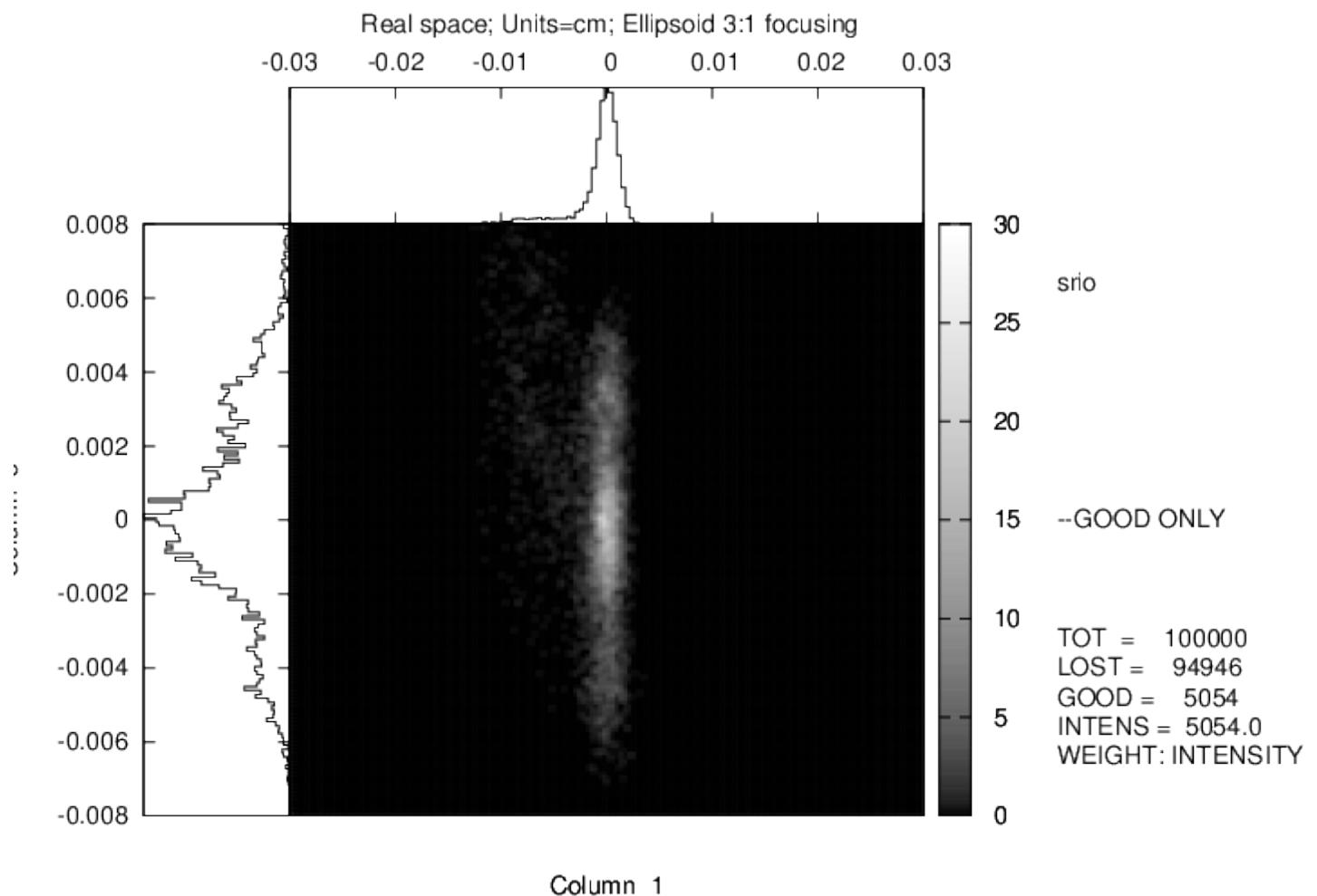


0.6.2.5. Ellipsoid 3:1 focusing

FW25M H: 27.815 um V: 94.305 um

FWHM H: 19.868 um V: 30.728 um

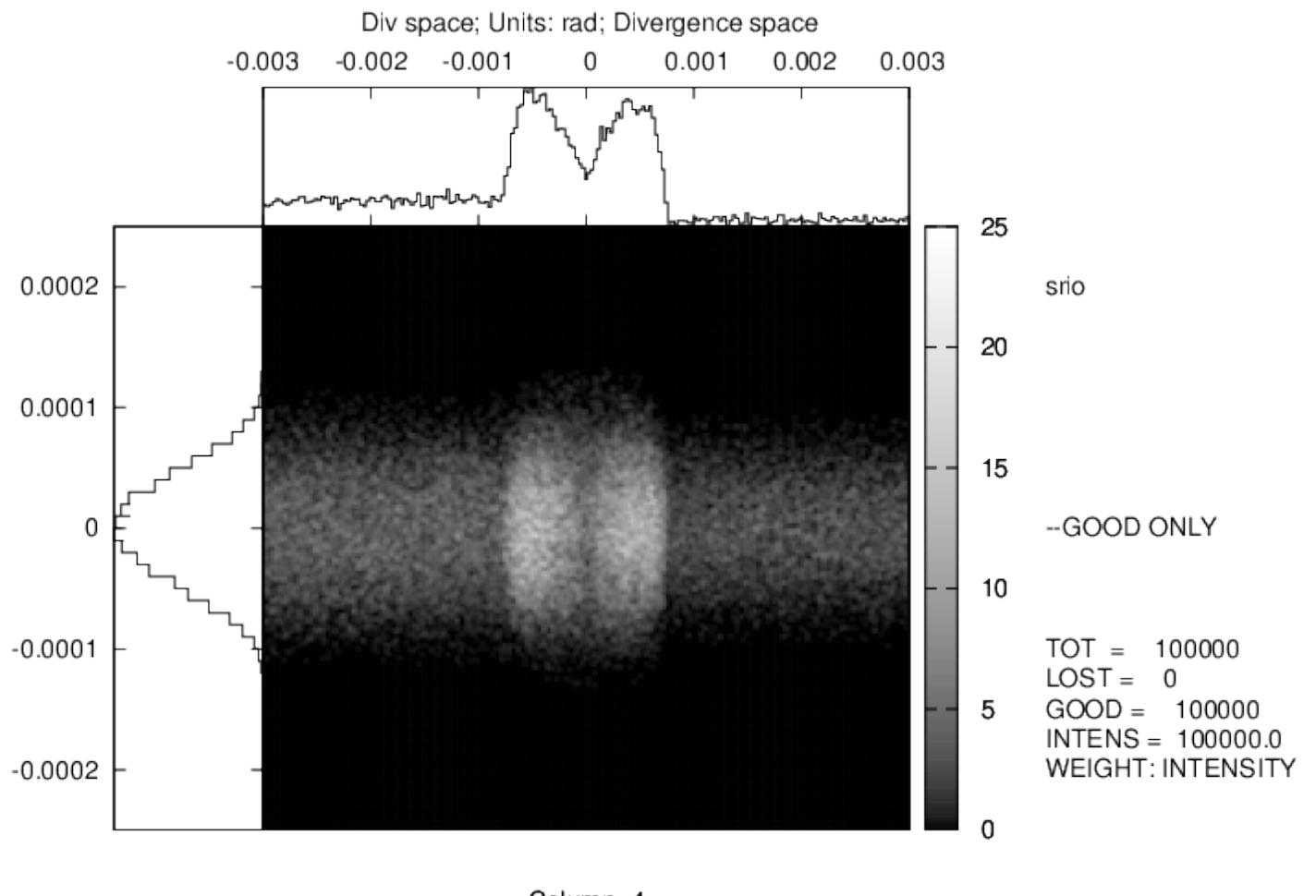
FW75M H: 11.921 um V: 15.894 um



0.6.3. Finite Emittance; magnetic field: 3P; E=20 keV

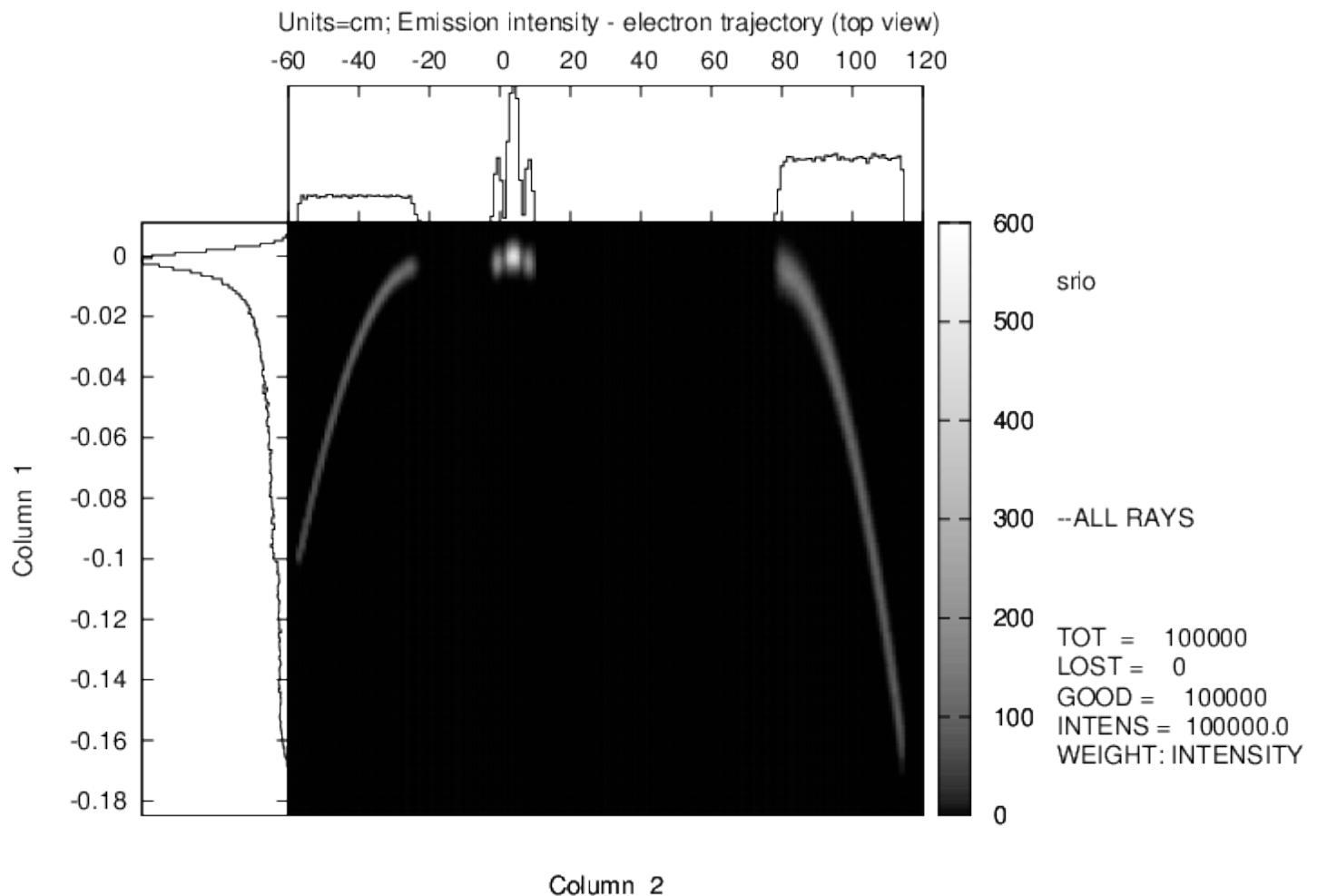
0.6.3.1. Divergence space

FW25M H: 3731.343 urad V: 139.303 urad
 FWHM H: 1402.985 urad V: 106.965 urad
 FW75M H: 1283.582 urad V: 67.164 urad



Column 4

0.6.3.2. Emission intensity - electron trajectory (top view)

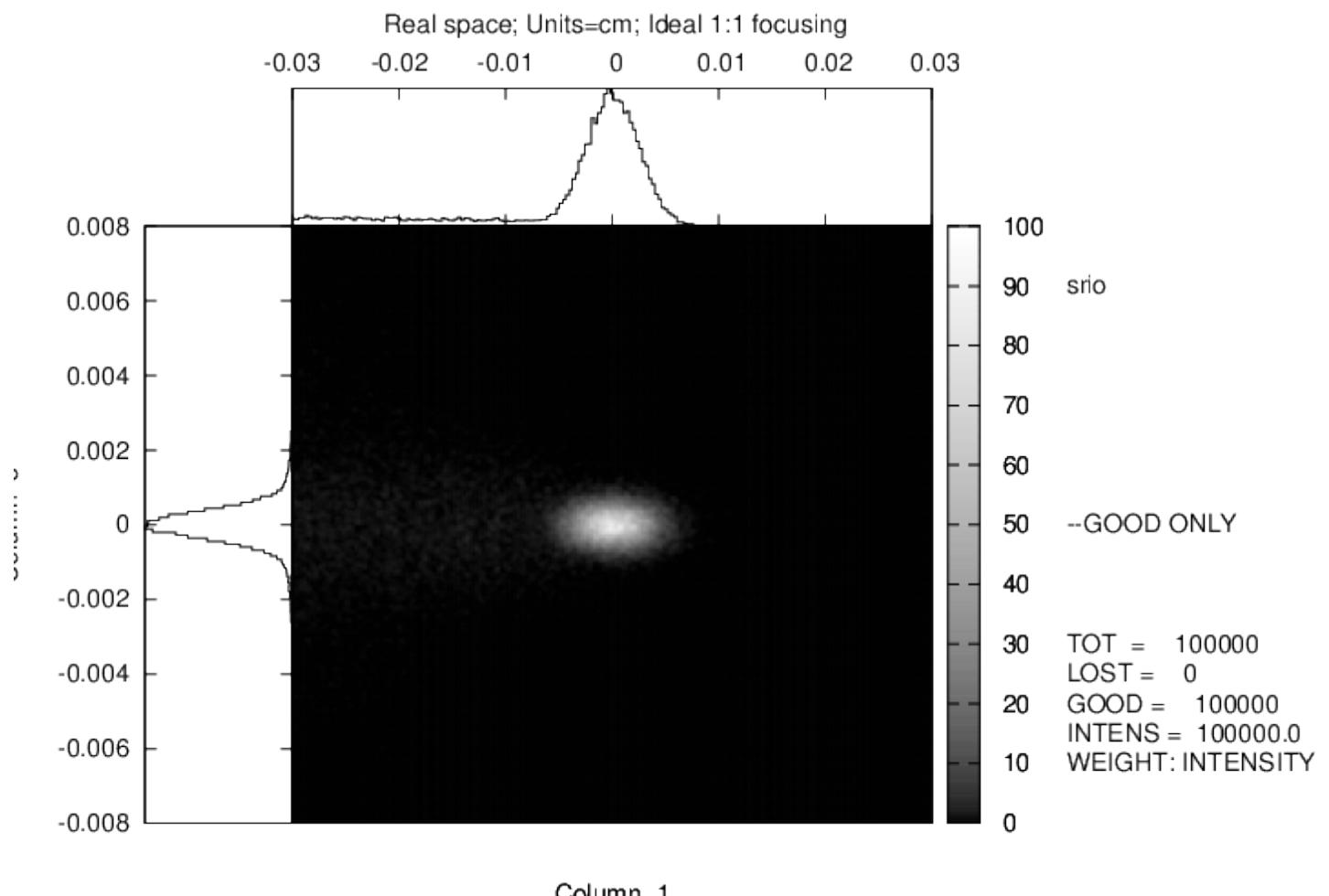


0.6.3.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 12.736 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 35.821 um V: 4.776 um

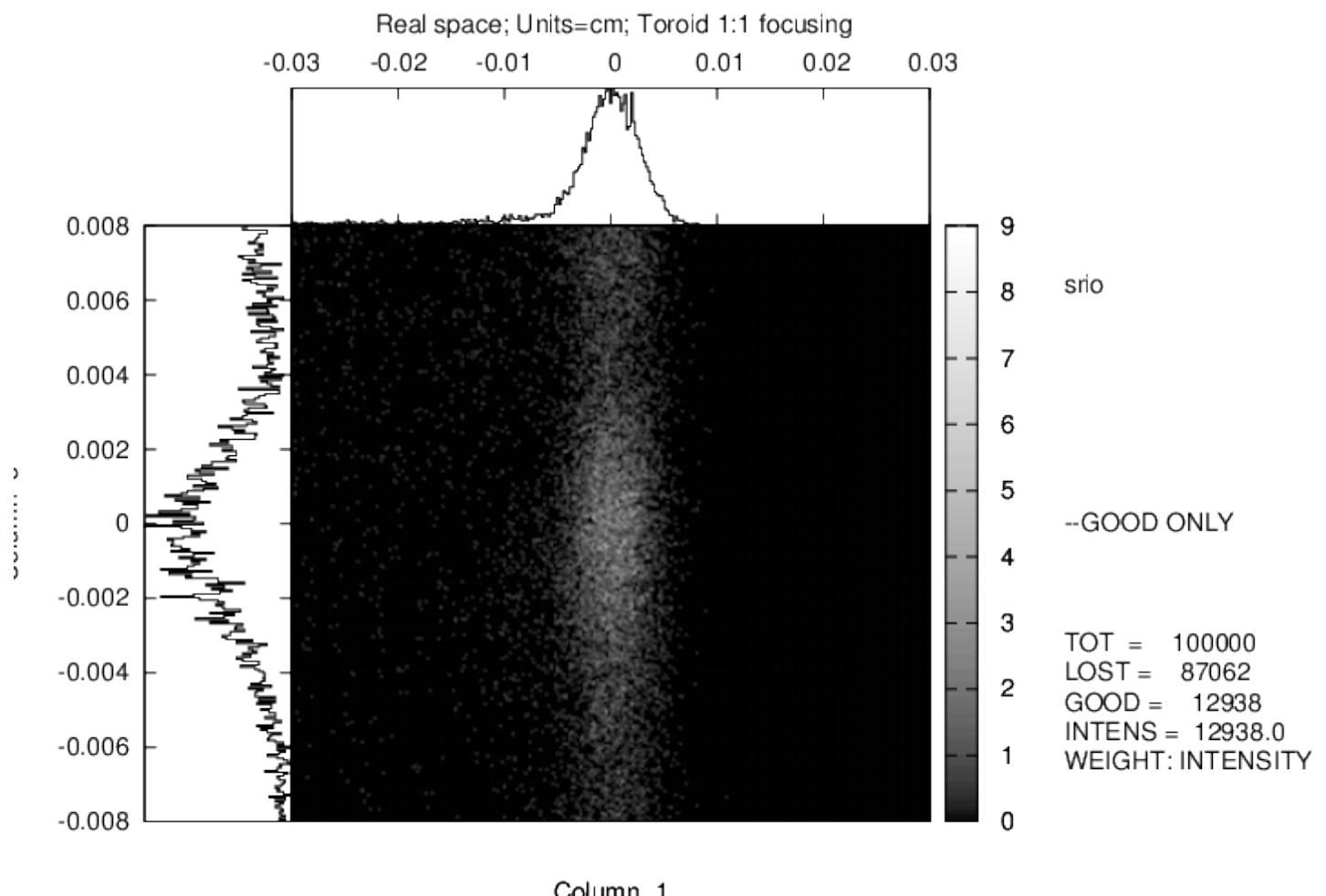


0.6.3.4. Toroid 1:1 focusing

FW25M H: 83.721 um V: 153.090 um

FWHM H: 55.814 um V: 56.877 um

FW75M H: 37.874 um V: 27.641 um

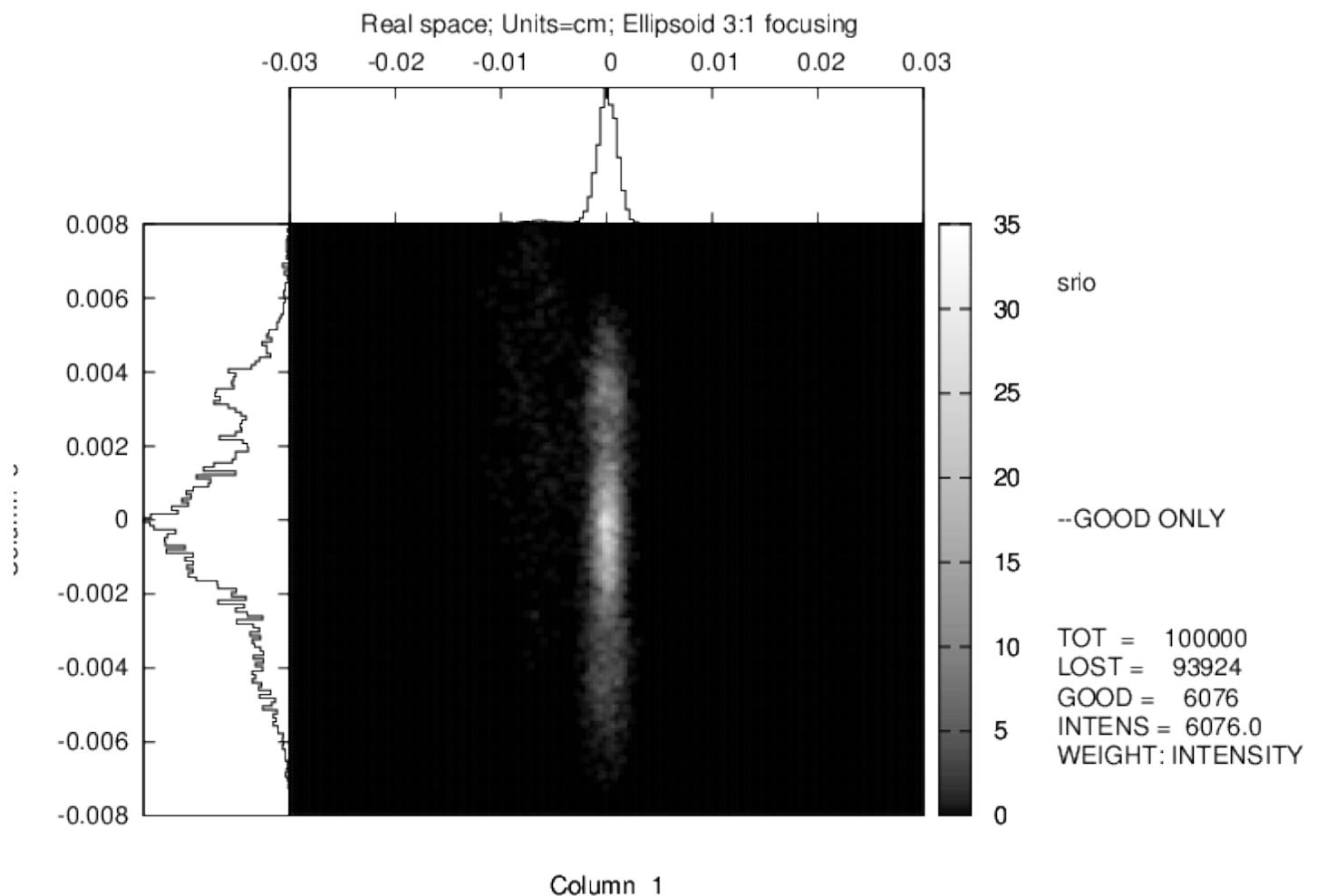


0.6.3.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 84.768 um

FWHM H: 15.894 um V: 50.861 um

FW75M H: 11.921 um V: 11.656 um

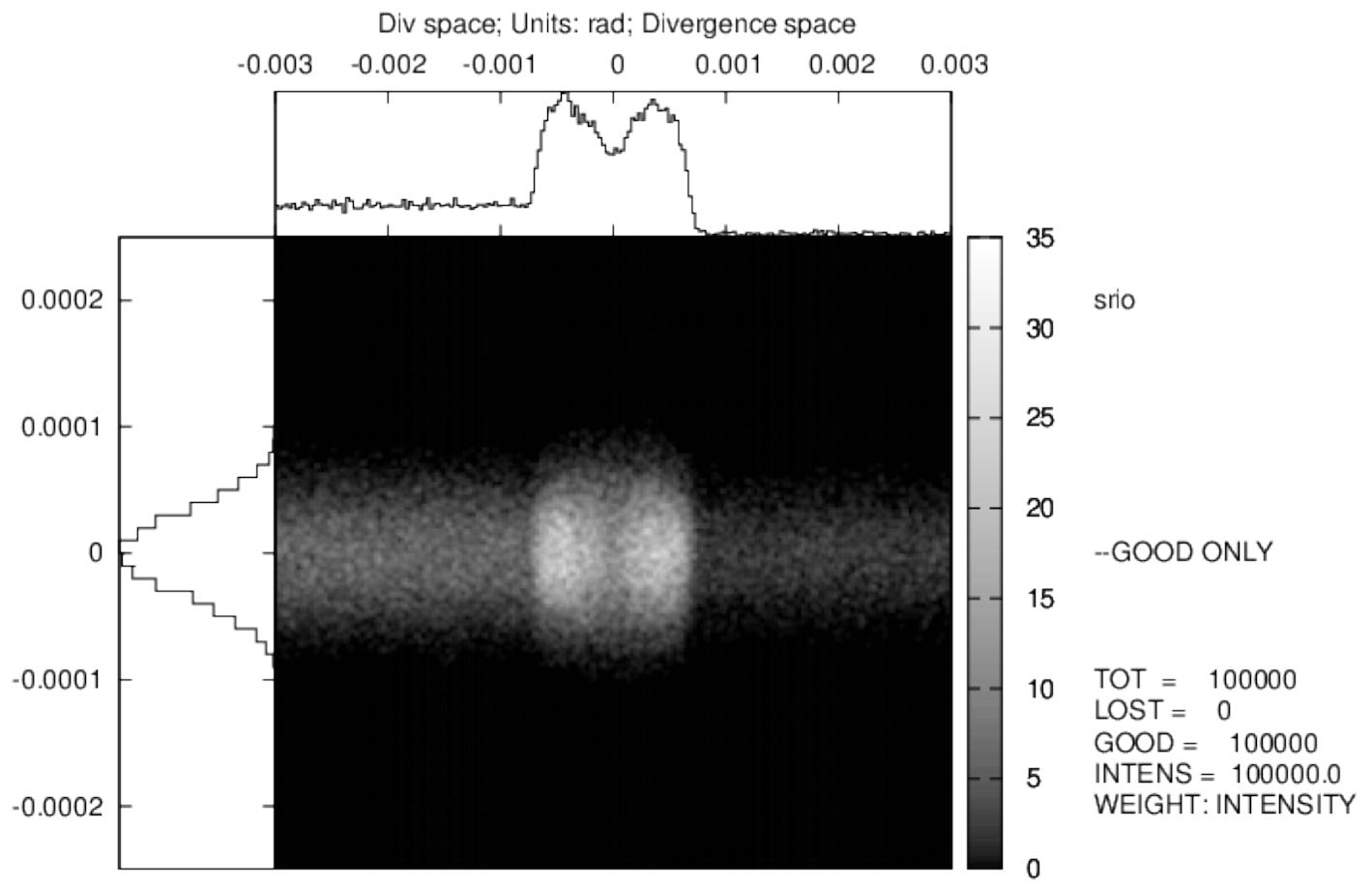


Column 1

0.6.4. Finite Emittance; magnetic field: 3P; E=40 keV

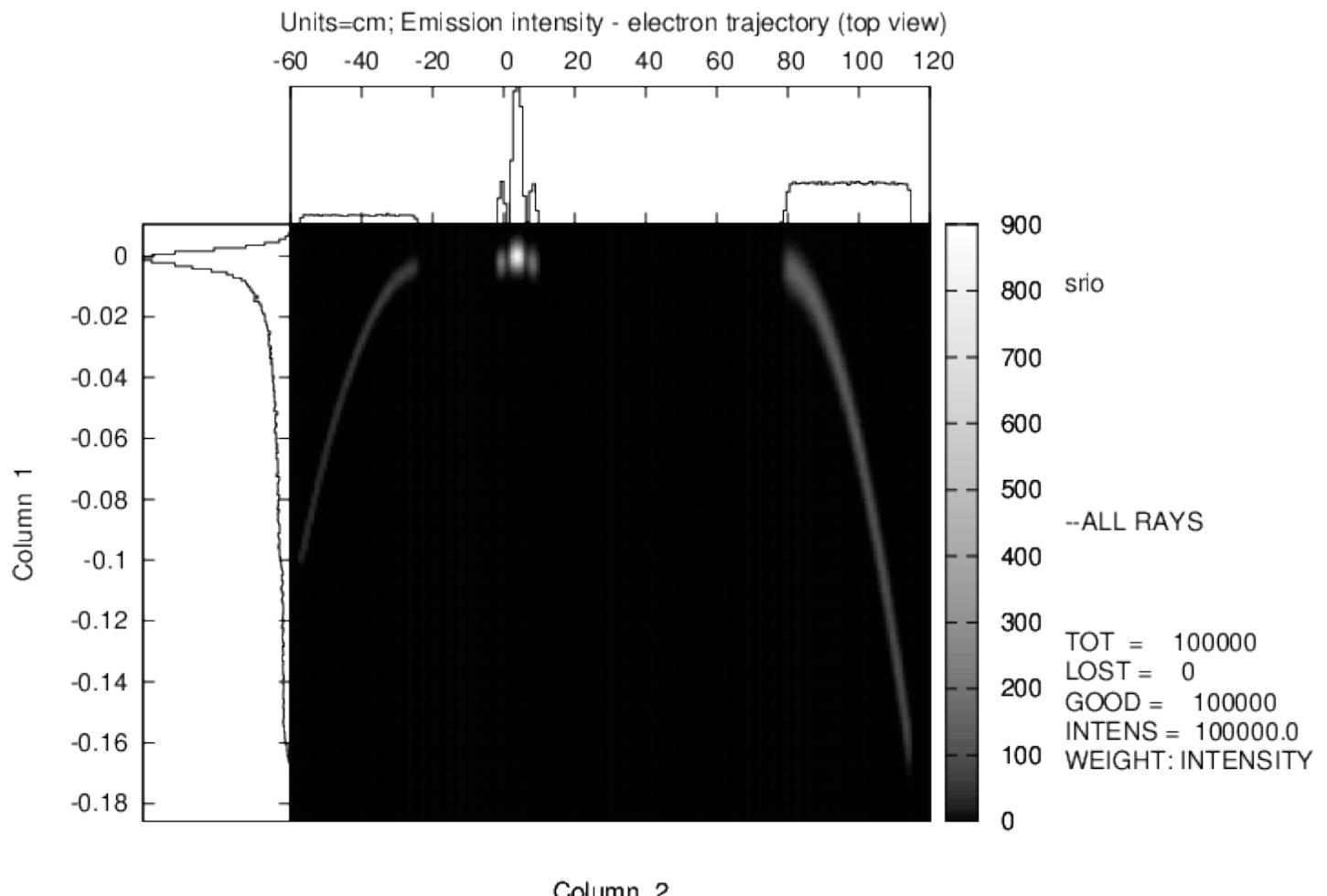
0.6.4.1. Divergence space

FW25M H: 3671.642 urad V: 106.965 urad
 FWHM H: 1313.433 urad V: 72.139 urad
 FW75M H: 1164.179 urad V: 49.751 urad



Column 4

0.6.4.2. Emission intensity - electron trajectory (top view)

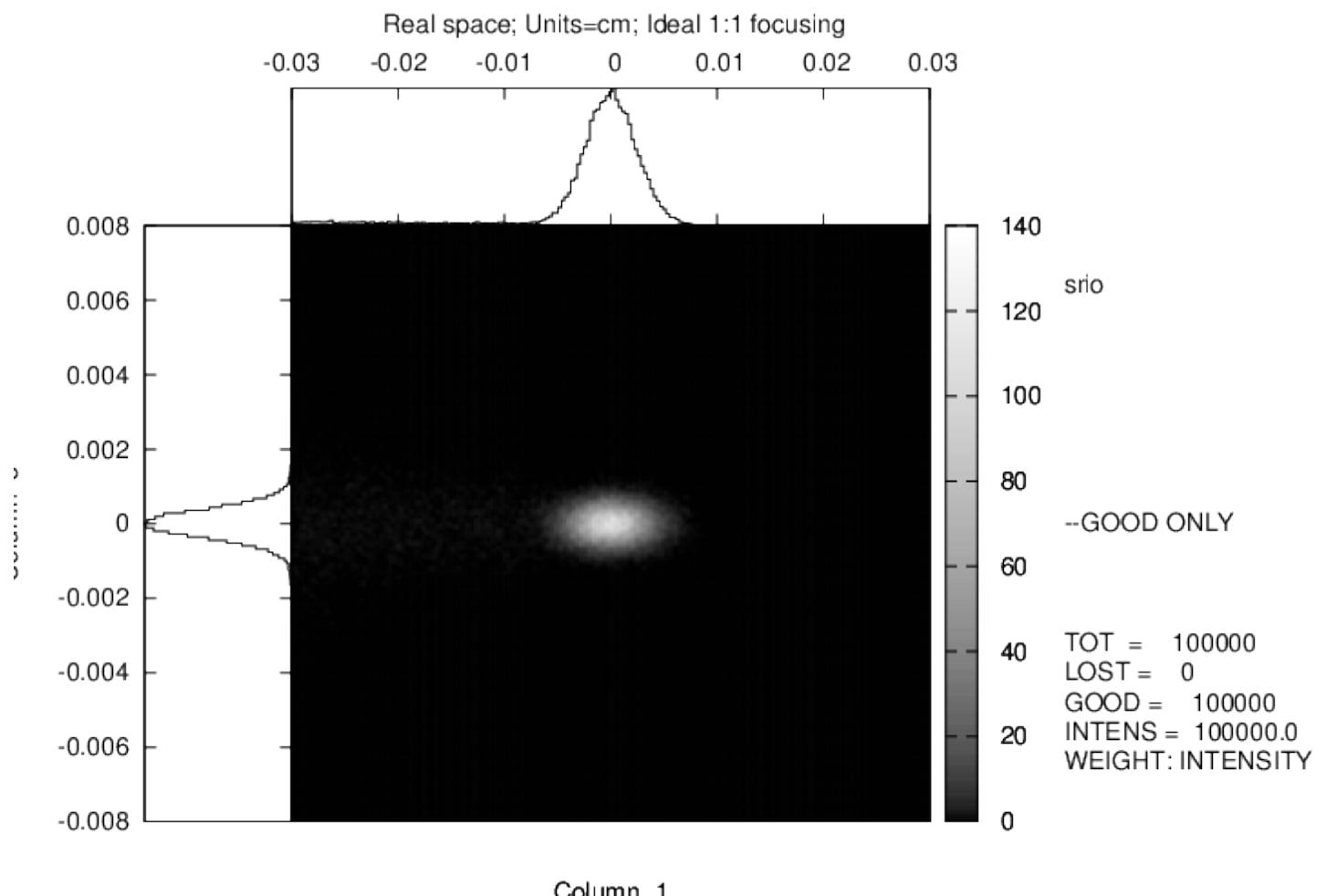


0.6.4.3. Ideal 1:1 focusing

FW25M H: 74.627 um V: 11.940 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um

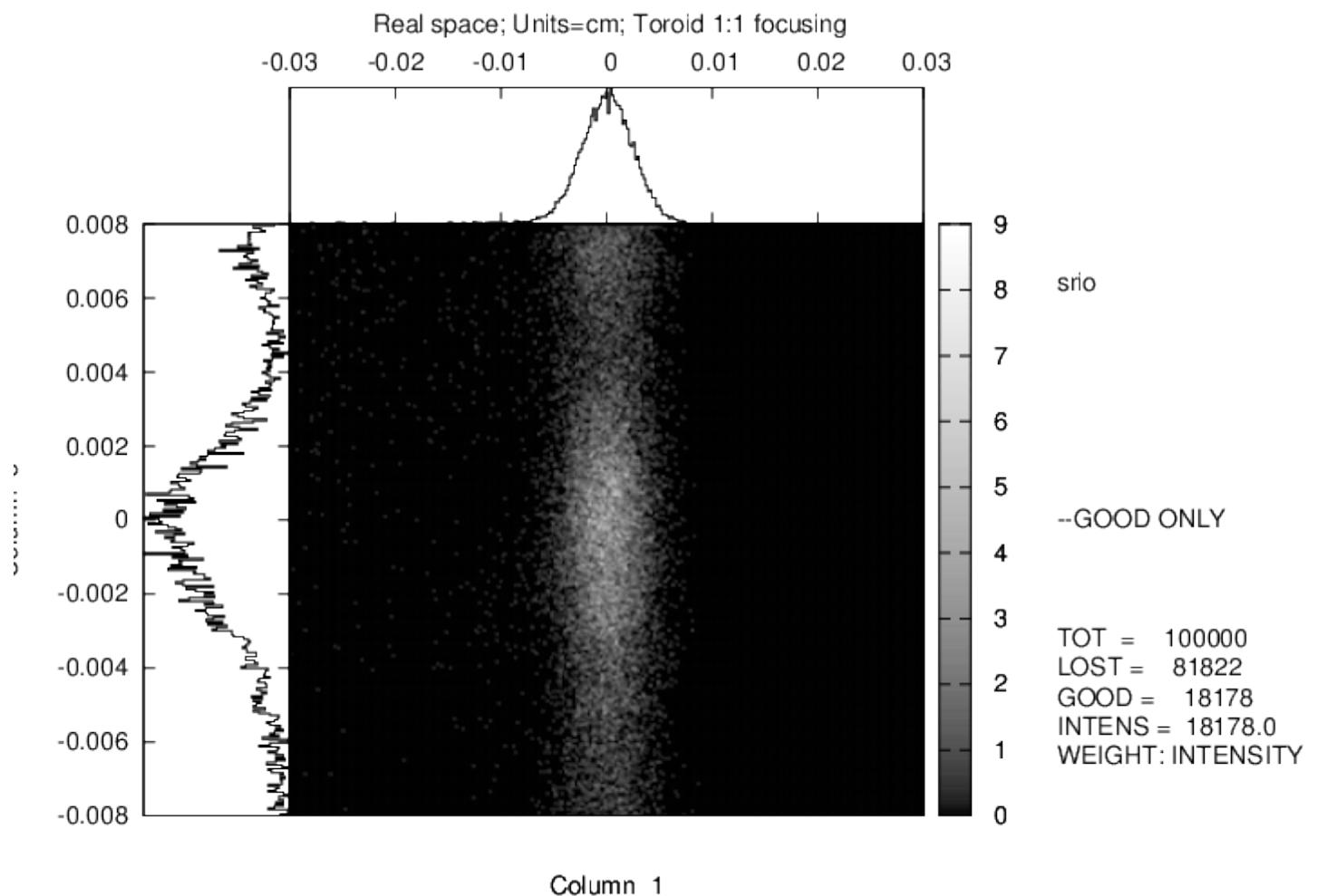


0.6.4.4. Toroid 1:1 focusing

FW25M H: 73.754 um V: 157.342 um

FWHM H: 51.827 um V: 102.591 um

FW75M H: 31.894 um V: 35.615 um



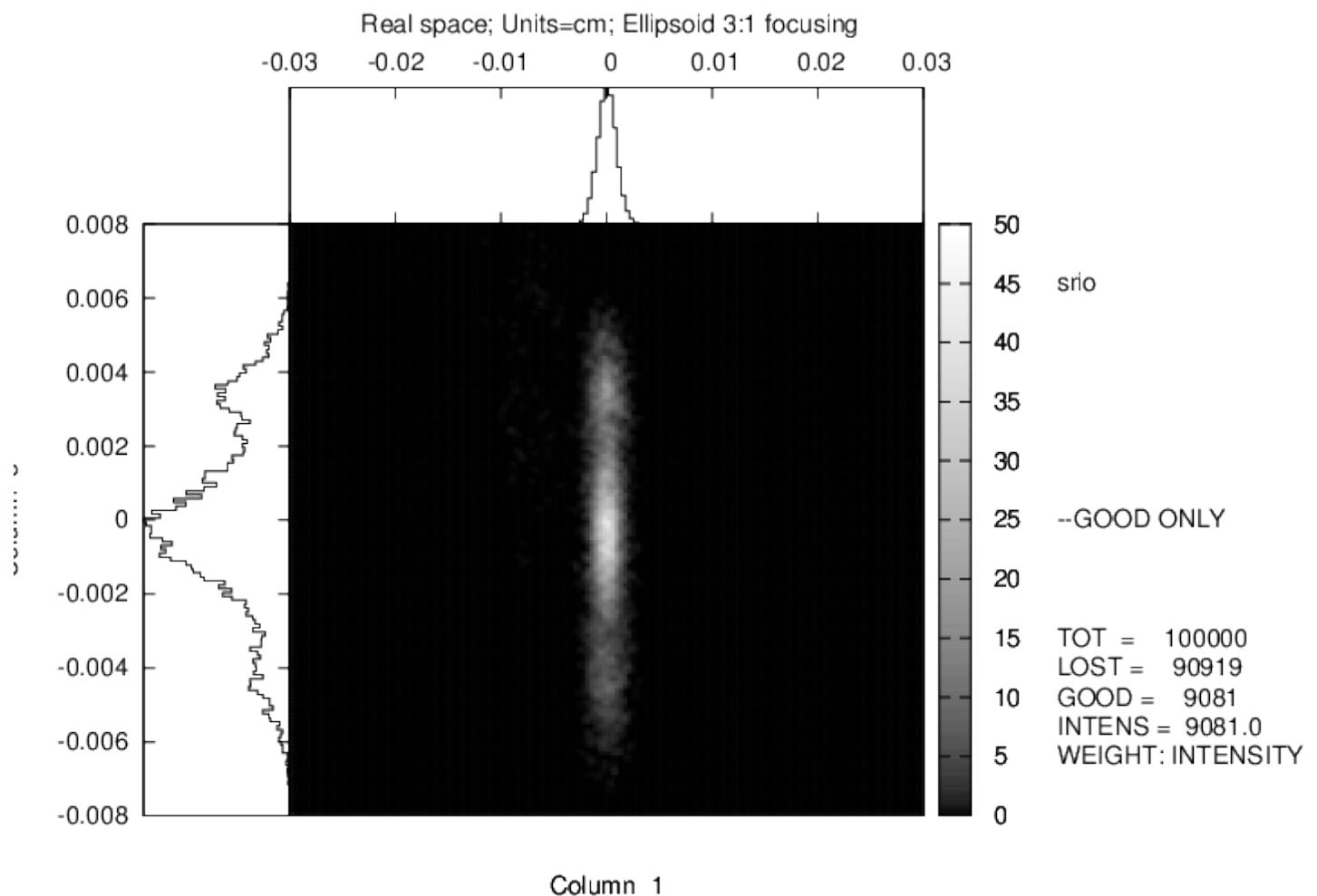
Column 1

0.6.4.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 86.887 um

FWHM H: 15.894 um V: 51.921 um

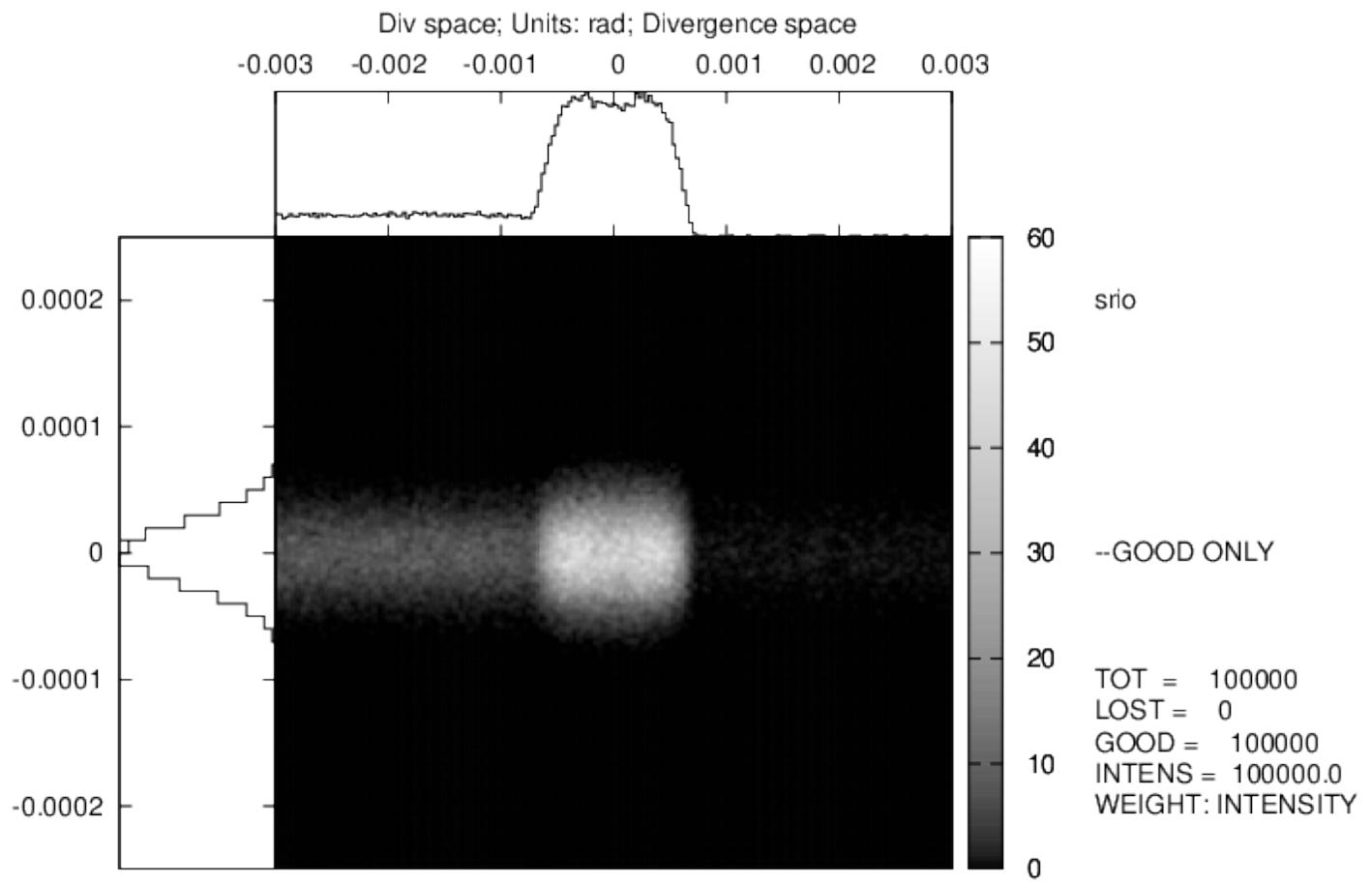
FW75M H: 7.947 um V: 15.894 um



0.6.5. Finite Emittance; magnetic field: 3P; E=80 keV

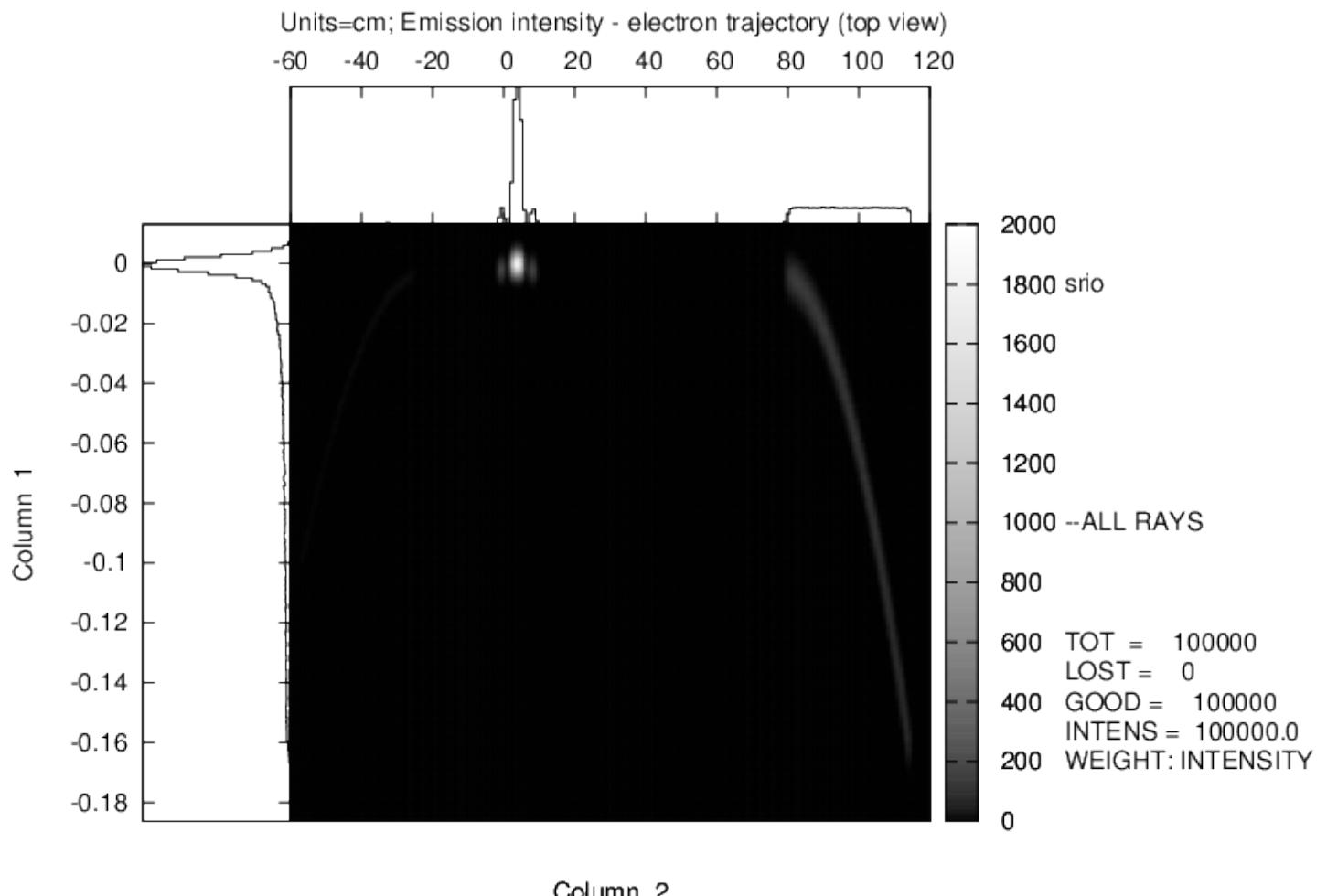
0.6.5.1. Divergence space

FW25M H: 1283.582 urad V: 74.627 urad
 FWHM H: 1164.179 urad V: 54.726 urad
 FW75M H: 1014.925 urad V: 34.826 urad



Column 4

0.6.5.2. Emission intensity - electron trajectory (top view)

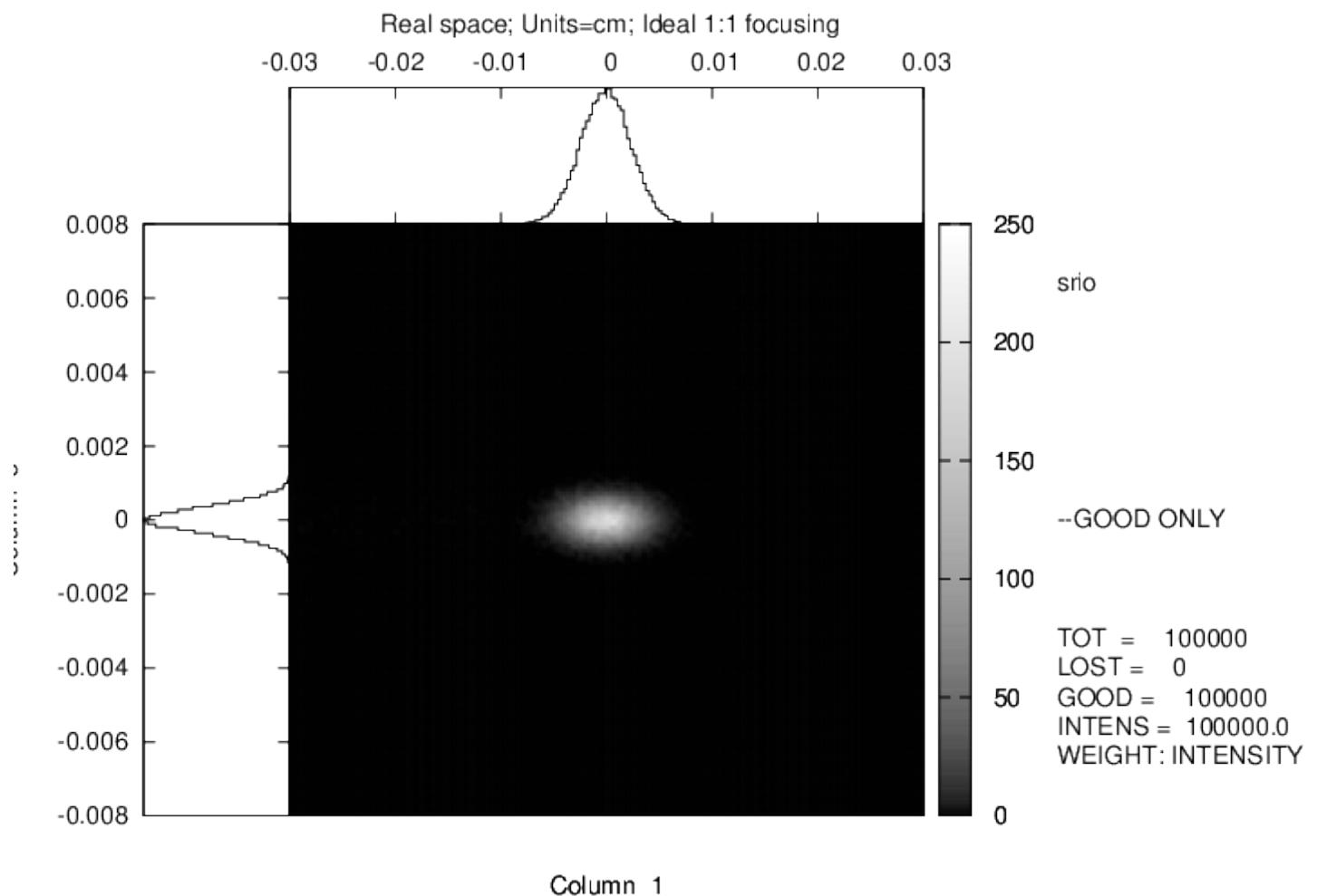


0.6.5.3. Ideal 1:1 focusing

FW25M H: 74.627 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um

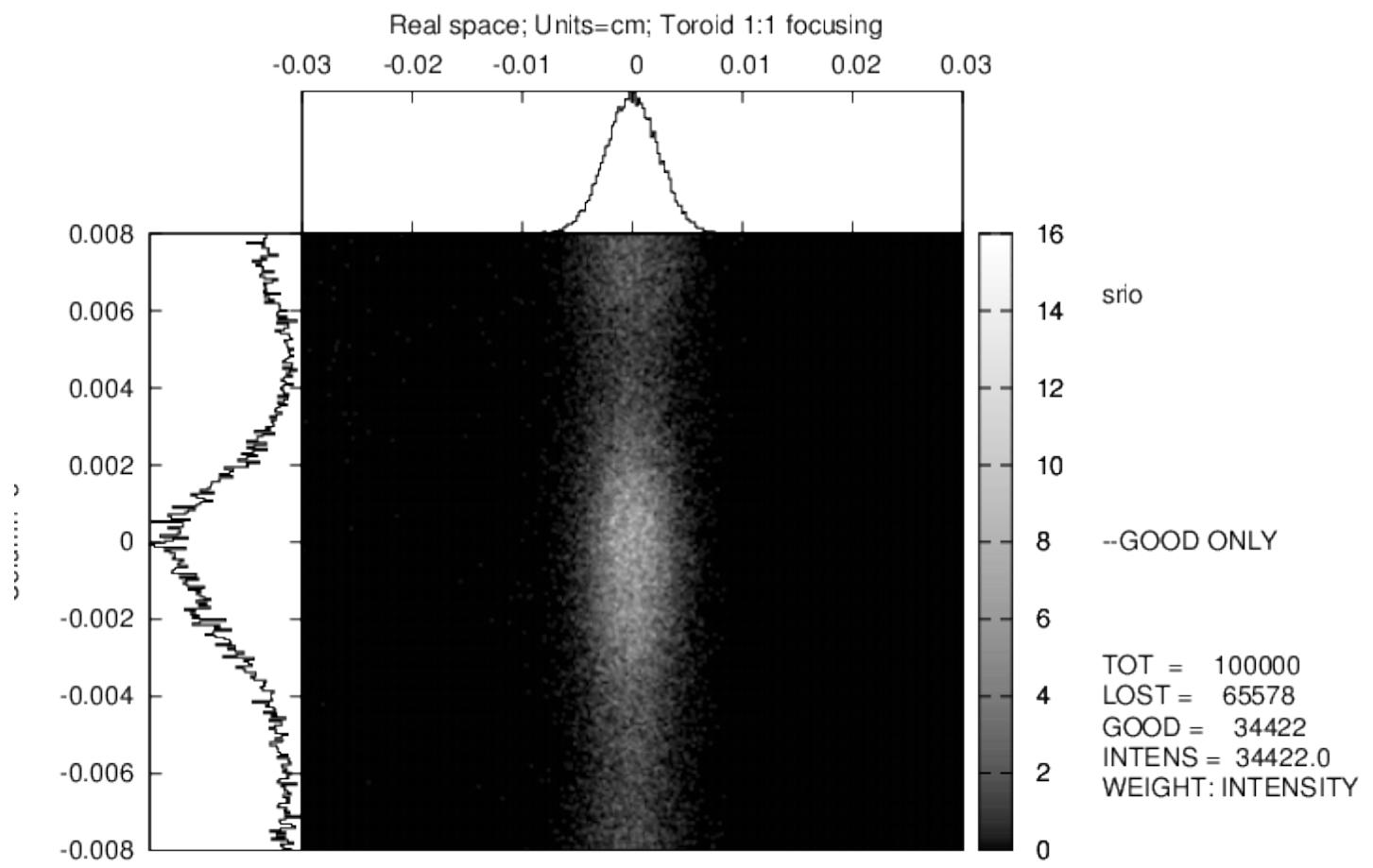


0.6.5.4. Toroid 1:1 focusing

FW25M H: 75.748 um V: 156.811 um

FWHM H: 53.821 um V: 48.904 um

FW75M H: 33.887 um V: 30.831 um



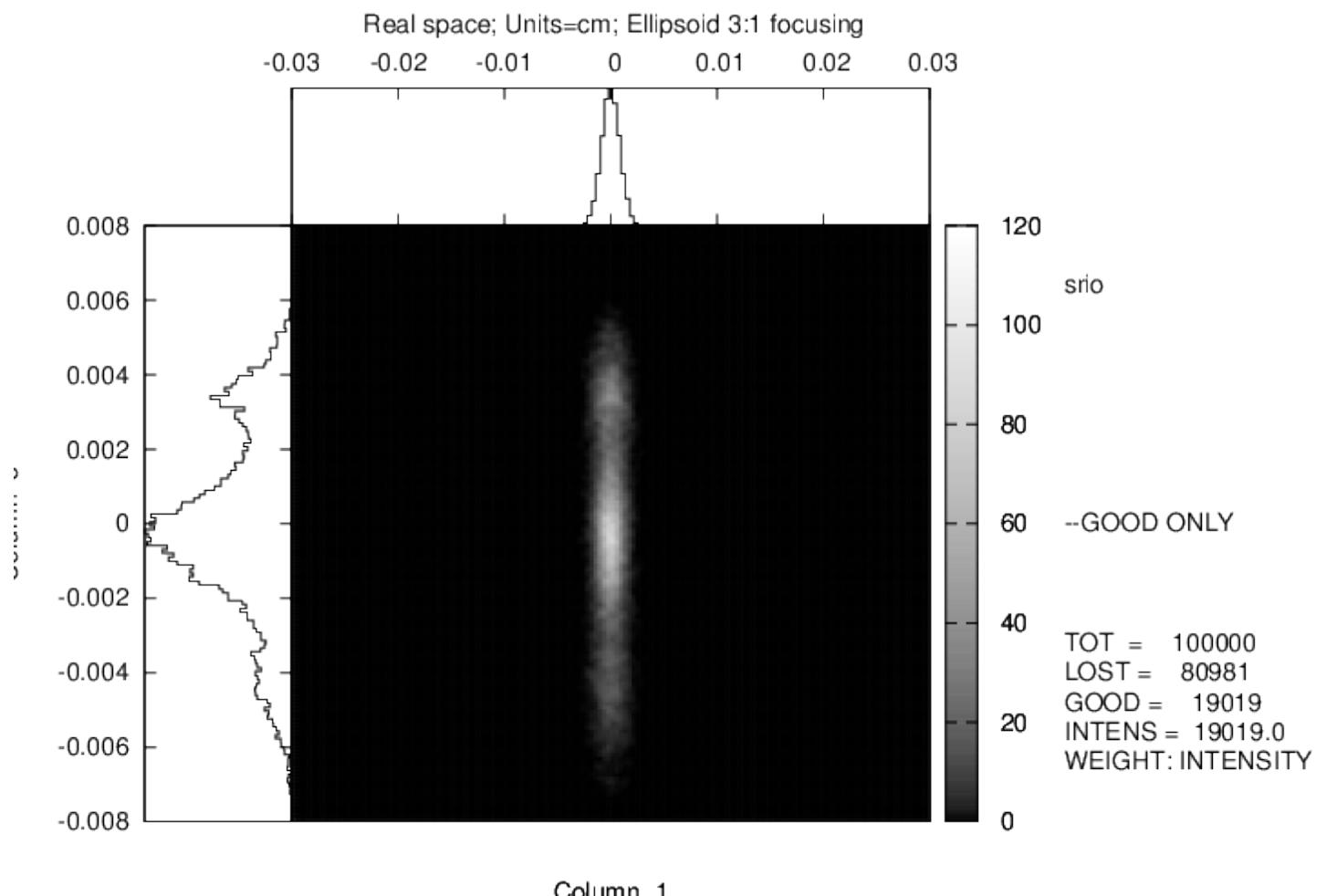
Column 1

0.6.5.5. Ellipsoid 3:1 focusing

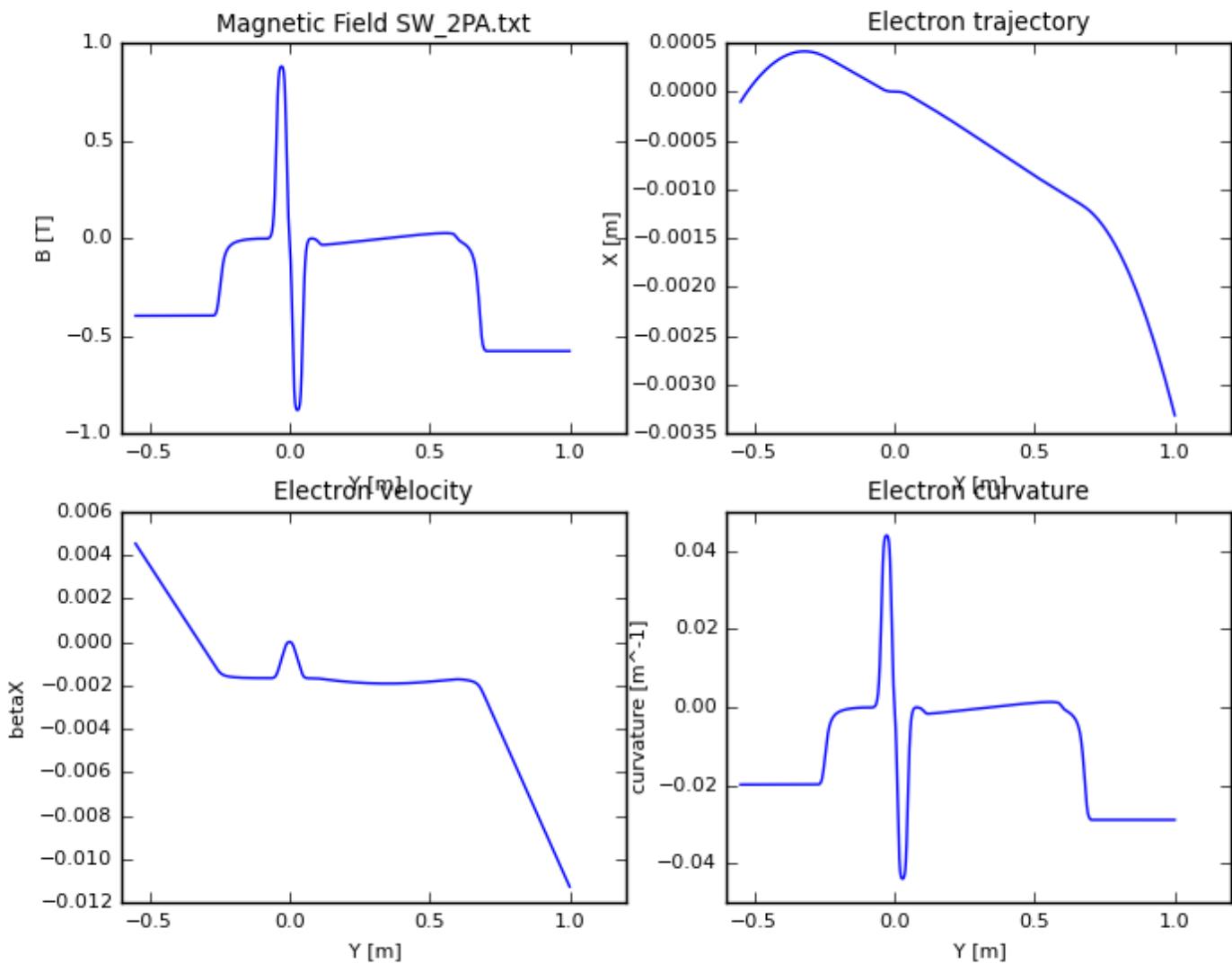
FW25M H: 23.841 um V: 85.828 um

FWHM H: 15.894 um V: 49.801 um

FW75M H: 7.947 um V: 14.834 um



0.7. Finite Emittance; magnetic field: 2PA



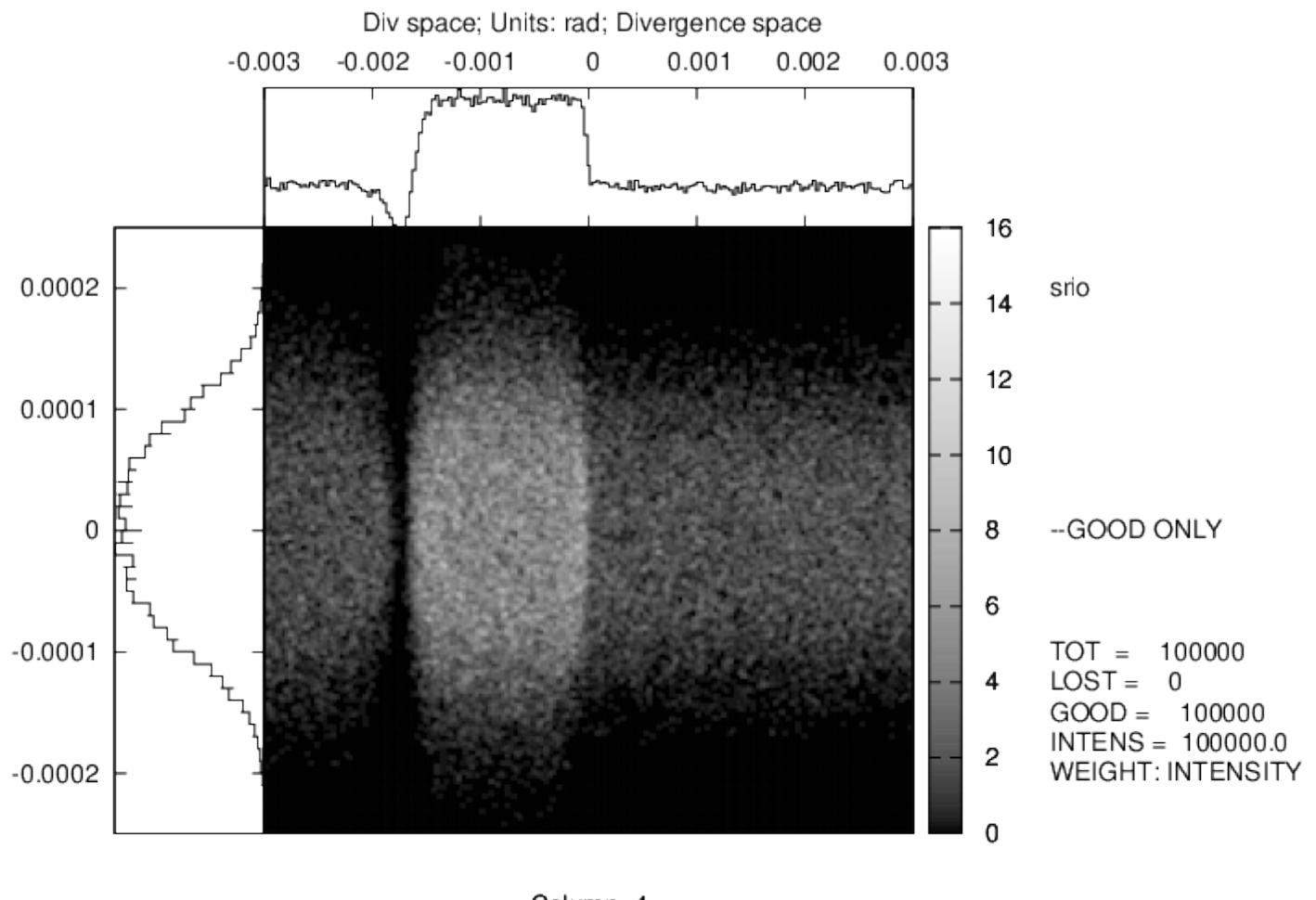
0.7.1. Finite Emittance; magnetic field: 2PA; E=5 keV

0.7.1.1. Divergence space

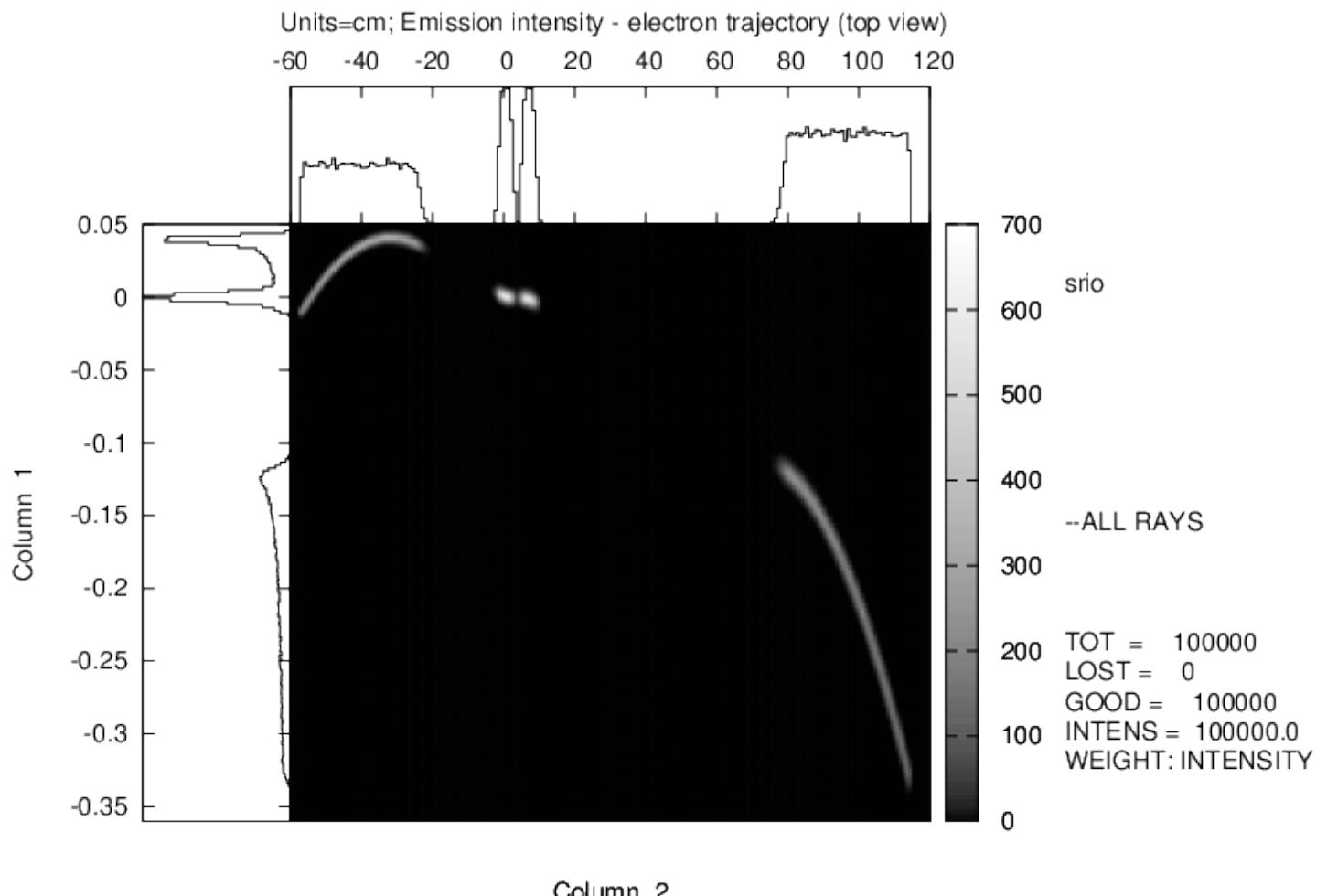
FW25M H: 5970.149 urad V: 251.244 urad

FWHM H: 1552.239 urad V: 199.005 urad

FW75M H: 1462.687 urad V: 146.766 urad



0.7.1.2. Emission intensity - electron trajectory (top view)

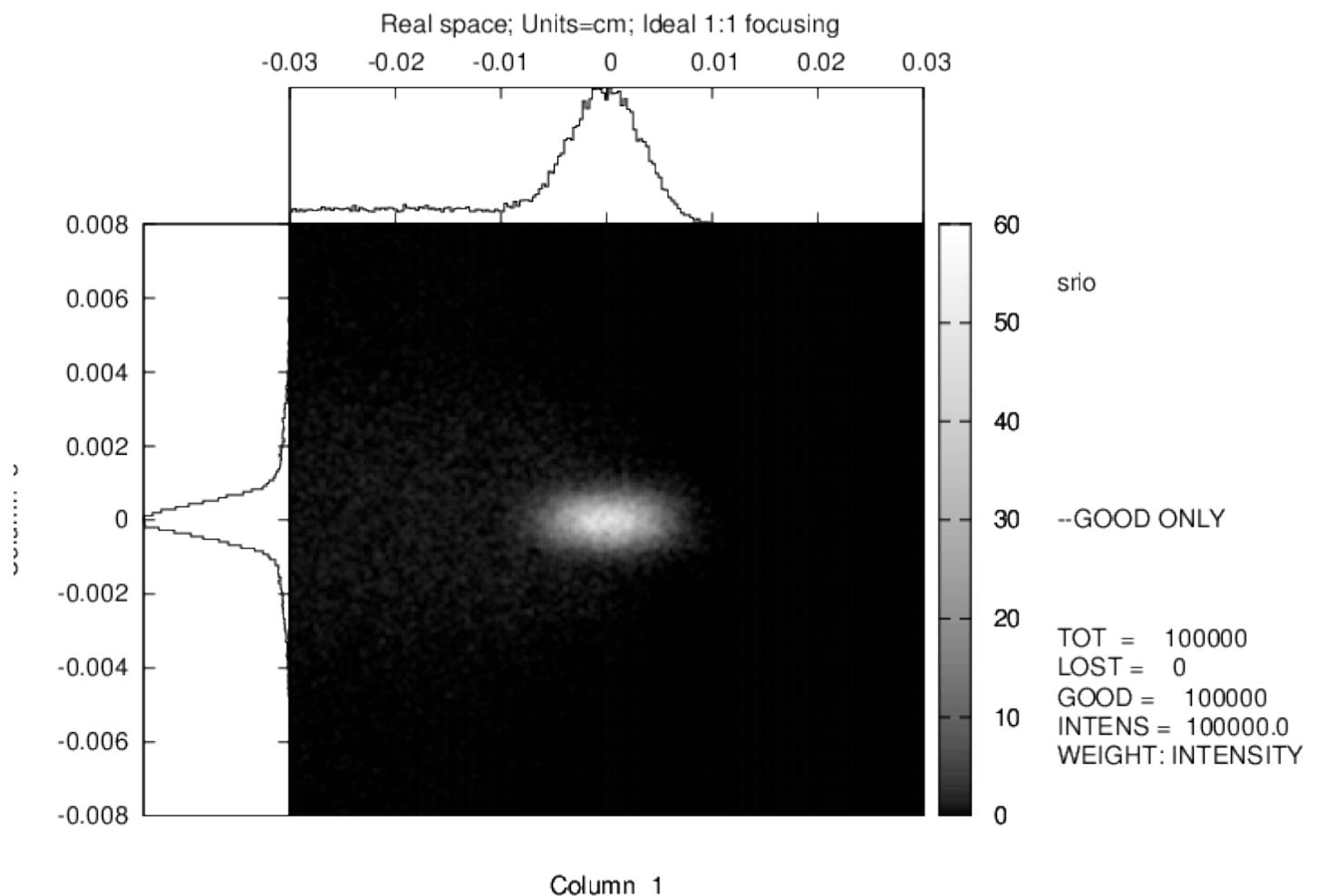


0.7.1.3. Ideal 1:1 focusing

FW25M H: 116.418 um V: 15.124 um

FWHM H: 80.597 um V: 9.552 um

FW75M H: 47.761 um V: 6.368 um



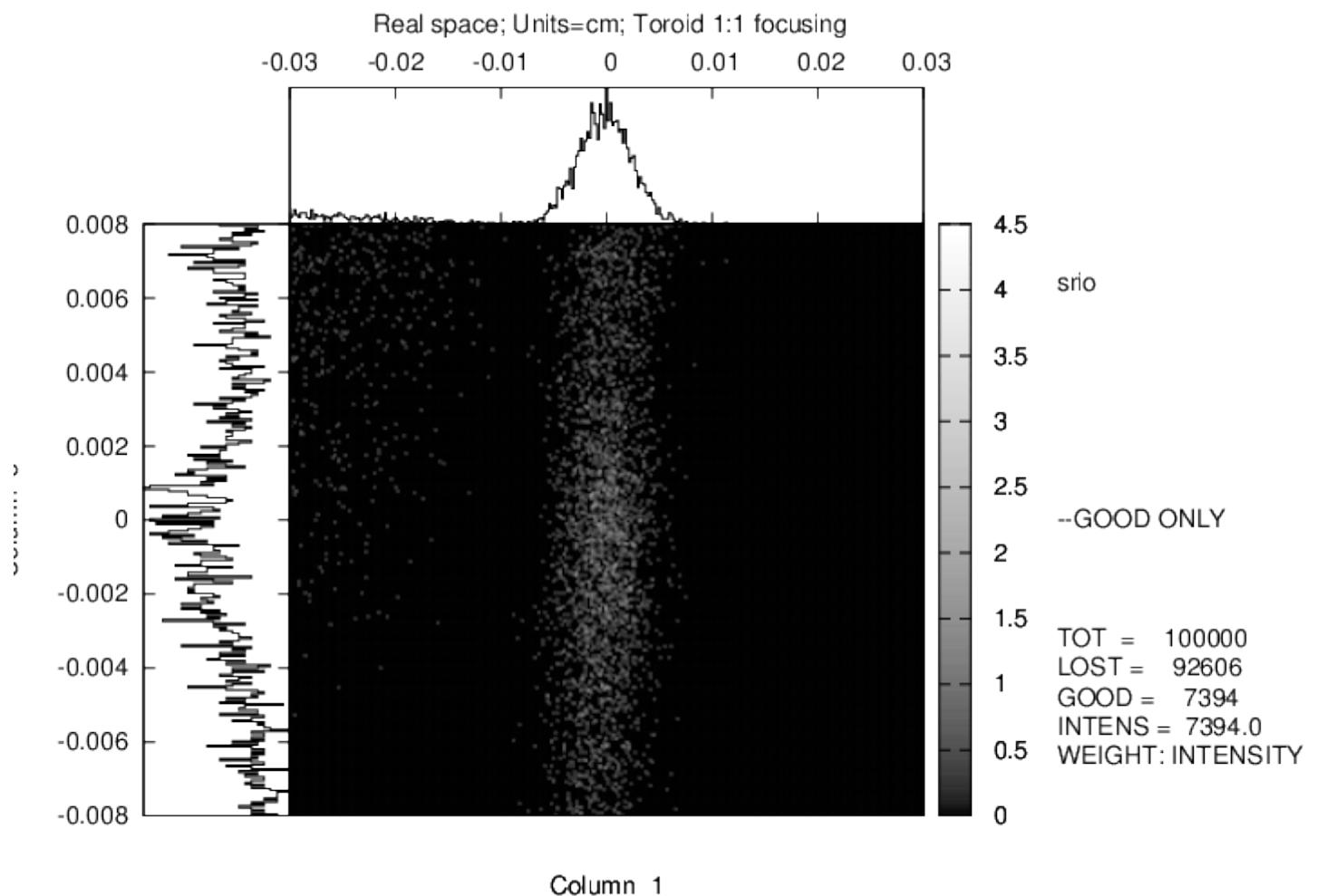
Column 1

0.7.1.4. Toroid 1:1 focusing

FW25M H: 81.728 um V: 158.937 um

FWHM H: 45.847 um V: 140.864 um

FW75M H: 23.920 um V: 107.907 um

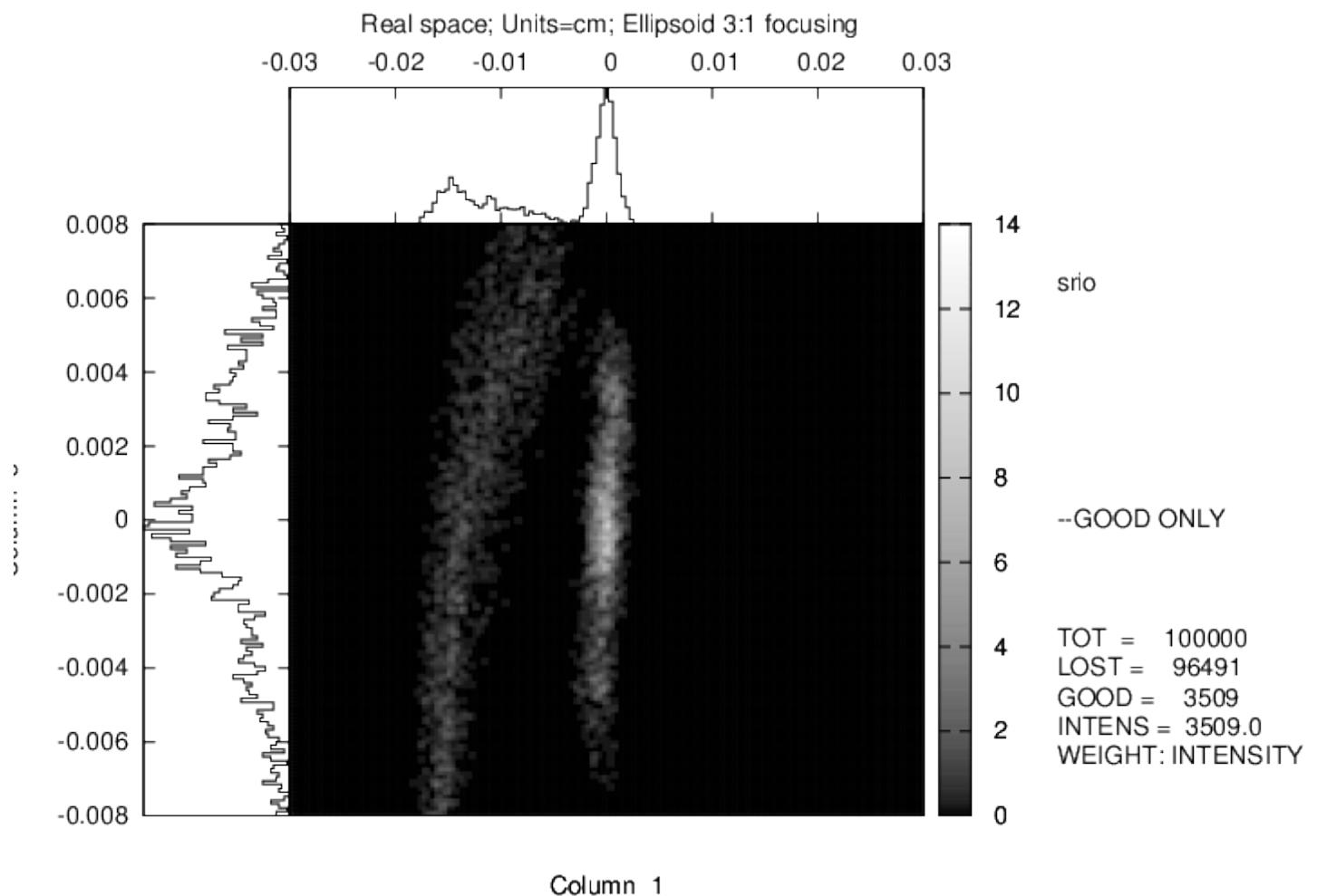


0.7.1.5. Ellipsoid 3:1 focusing

FW25M H: 162.914 um V: 115.497 um

FWHM H: 15.894 um V: 57.219 um

FW75M H: 7.947 um V: 24.371 um



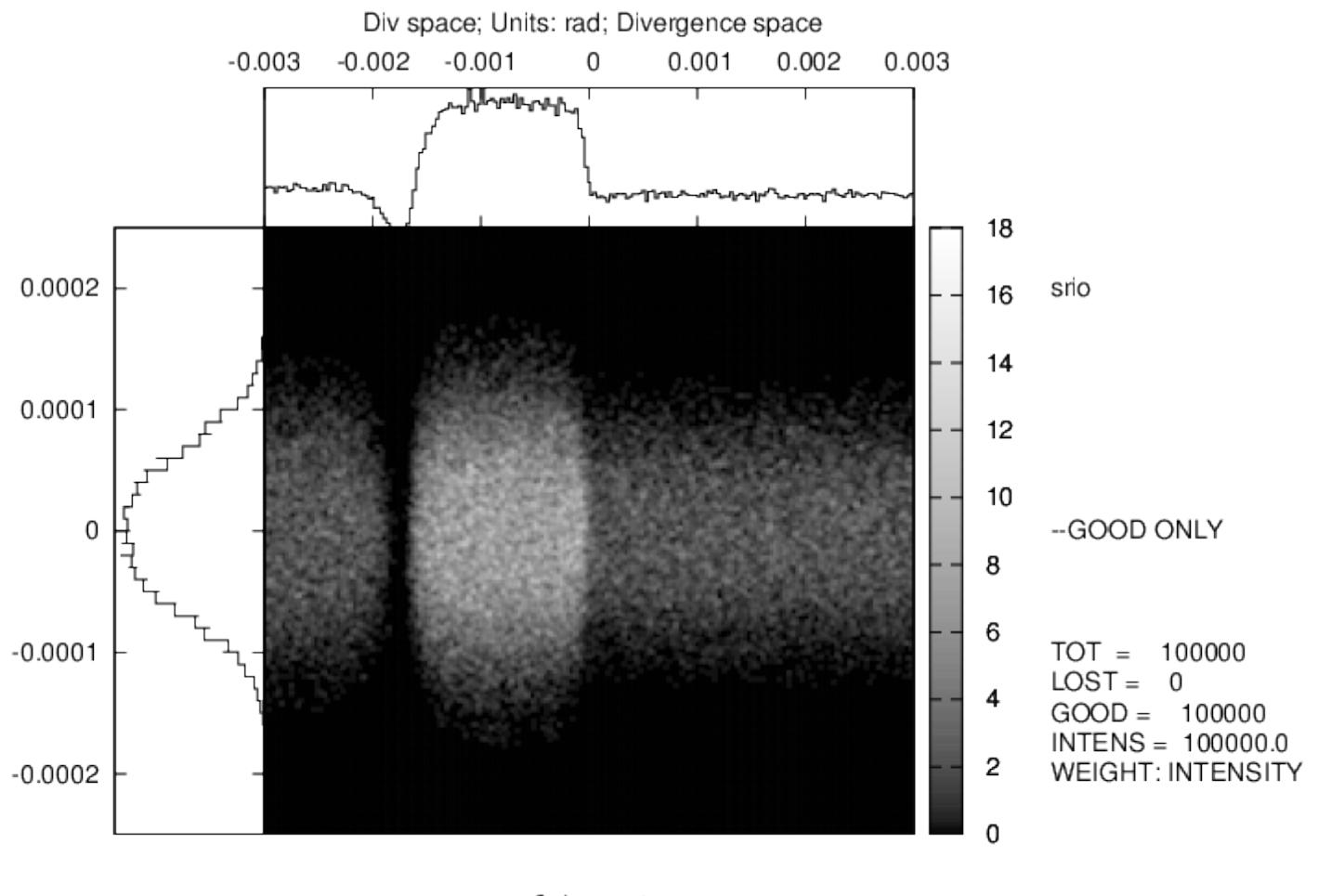
0.7.2. Finite Emittance; magnetic field: 2PA; E=10 keV

0.7.2.1. Divergence space

```

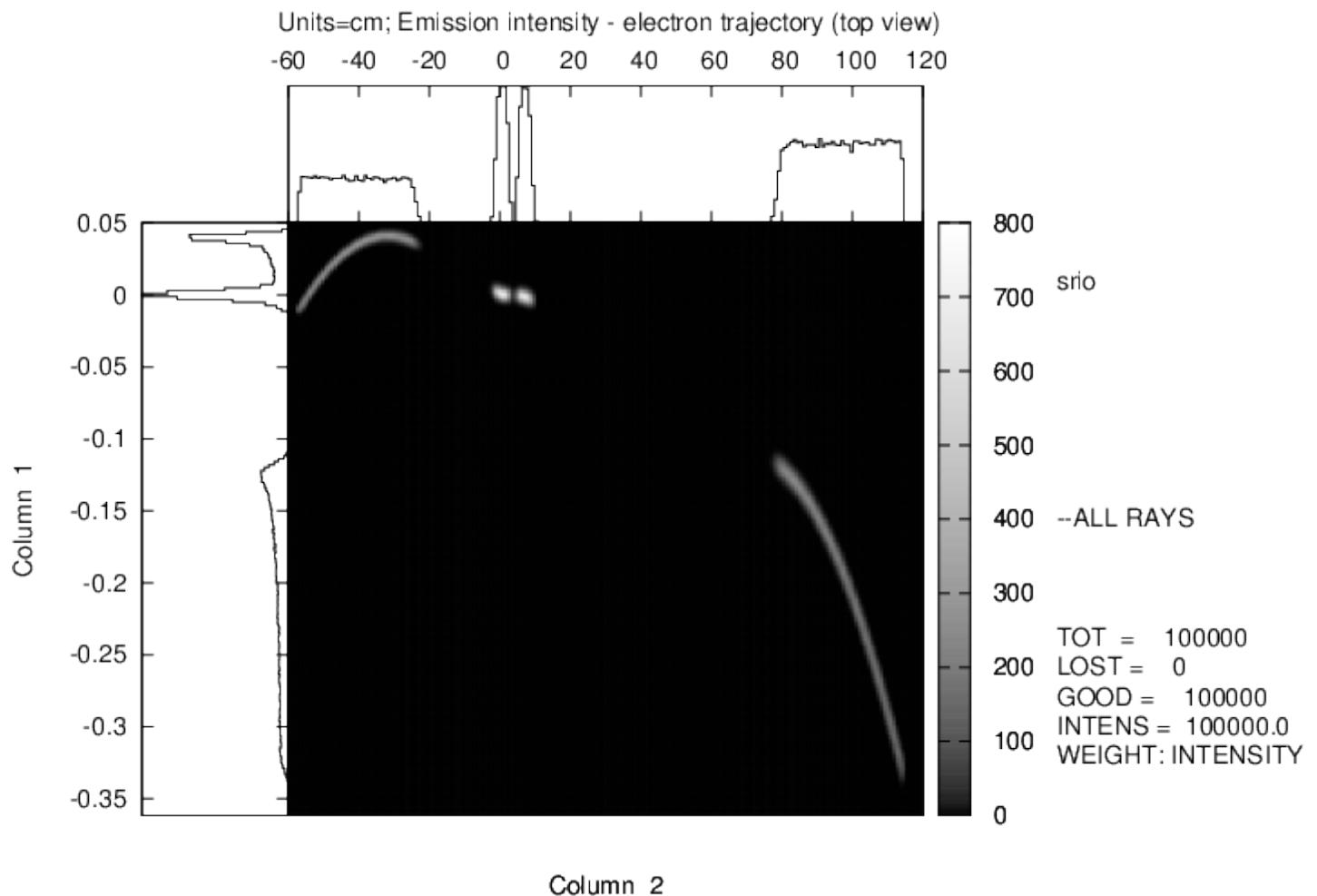
FW25M H: 5701.493 urad V: 191.542 urad
FWHM H: 1492.537 urad V: 139.303 urad
FW75M H: 1283.582 urad V: 94.527 urad

```



Column 4

0.7.2.2. Emission intensity - electron trajectory (top view)

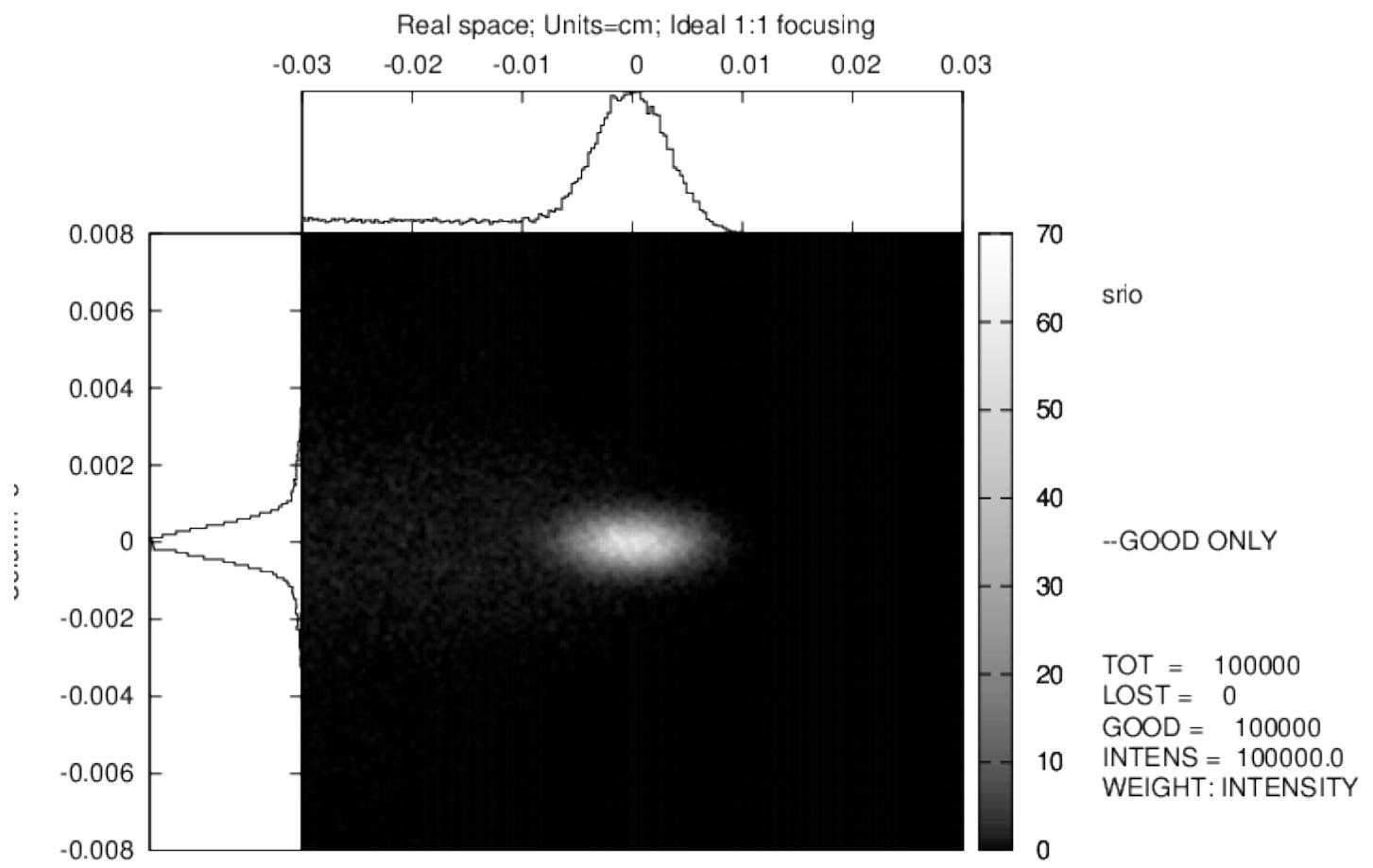


0.7.2.3. Ideal 1:1 focusing

FW25M H: 113.433 um V: 14.328 um

FWHM H: 74.627 um V: 9.552 um

FW75M H: 50.746 um V: 4.776 um



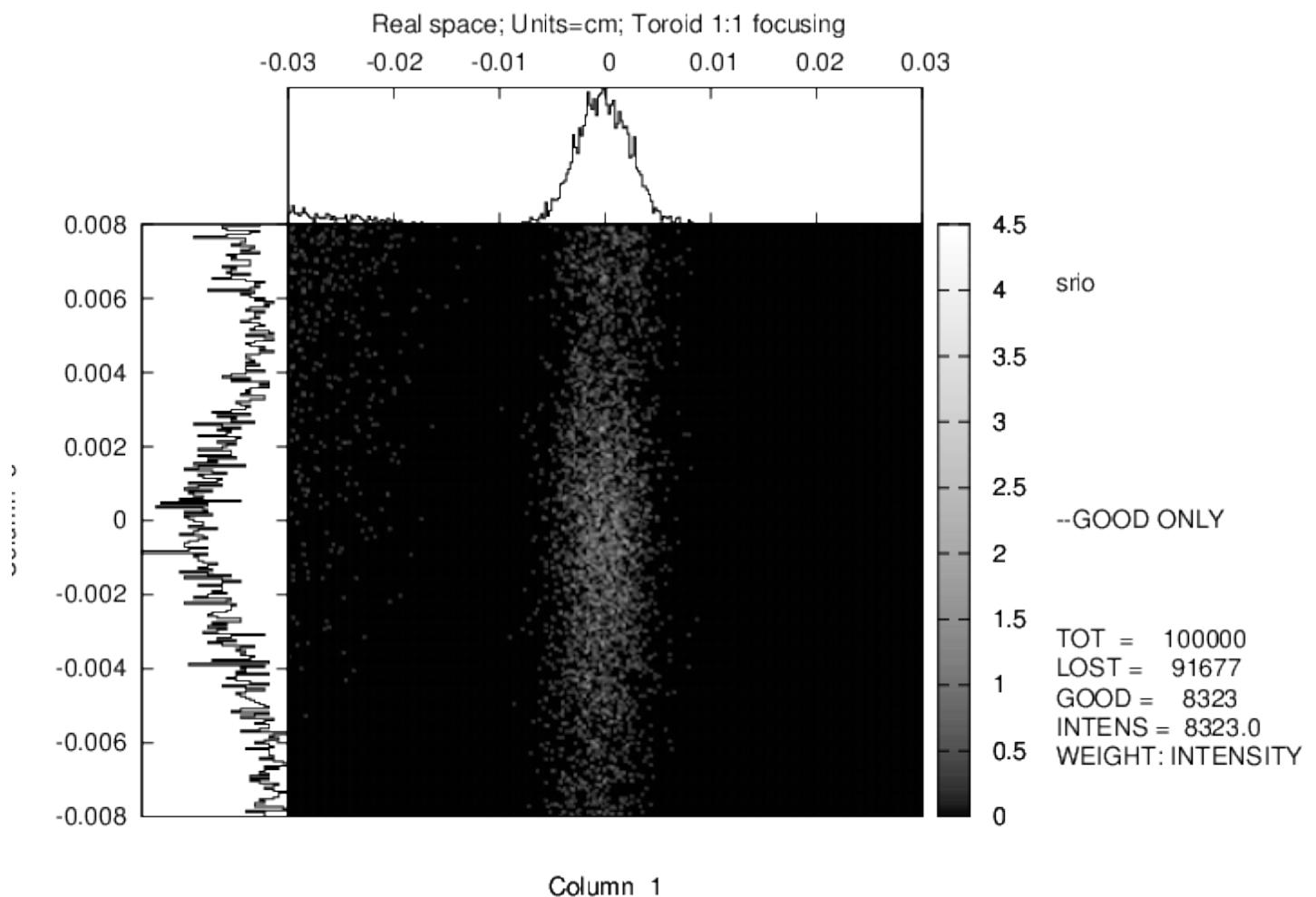
Column 1

0.7.2.4. Toroid 1:1 focusing

FW25M H: 81.728 um V: 157.874 um

FWHM H: 57.807 um V: 115.349 um

FW75M H: 33.887 um V: 19.668 um

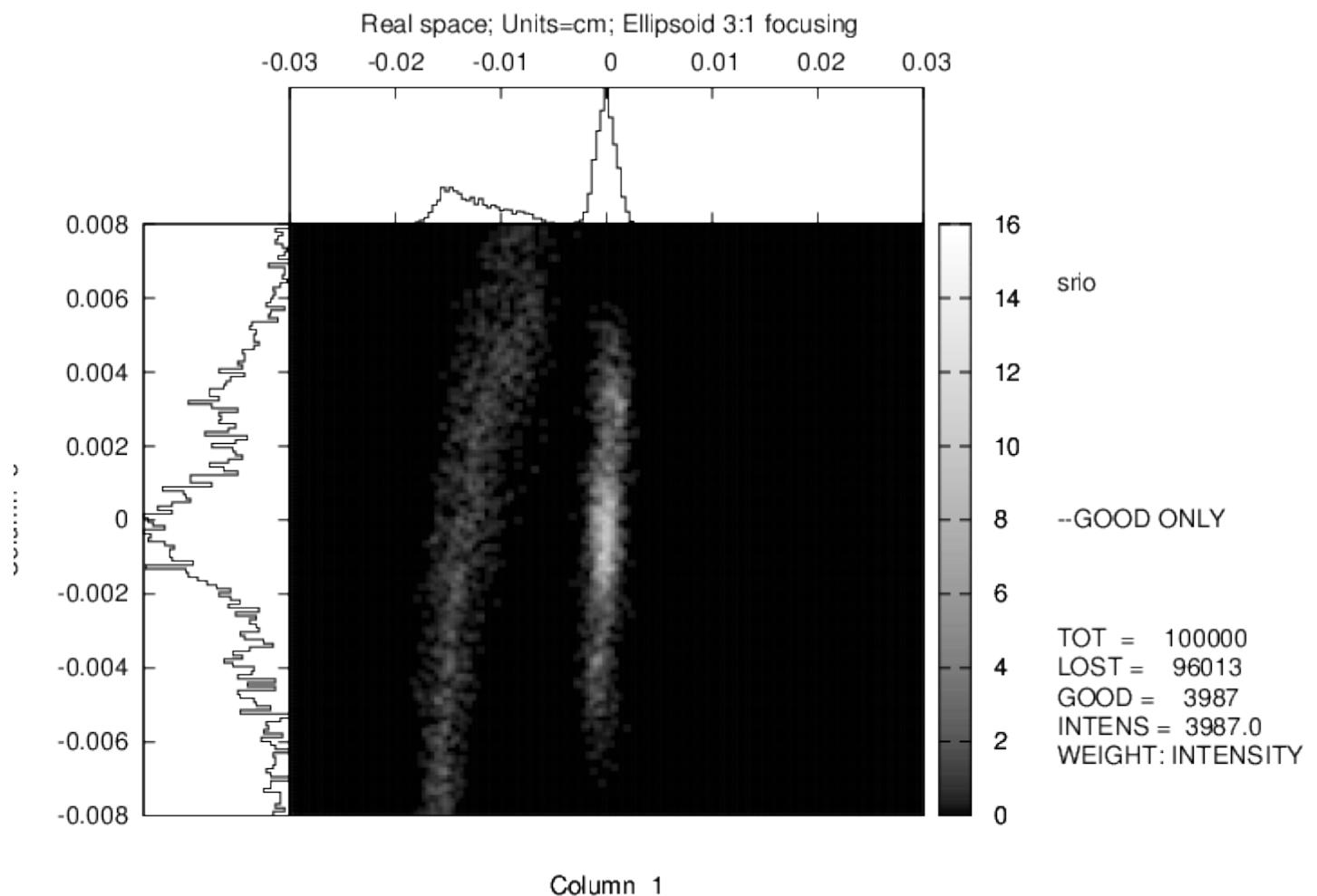


0.7.2.5. Ellipsoid 3:1 focusing

FW25M H: 166.887 um V: 104.901 um

FWHM H: 15.894 um V: 60.397 um

FW75M H: 7.947 um V: 21.192 um

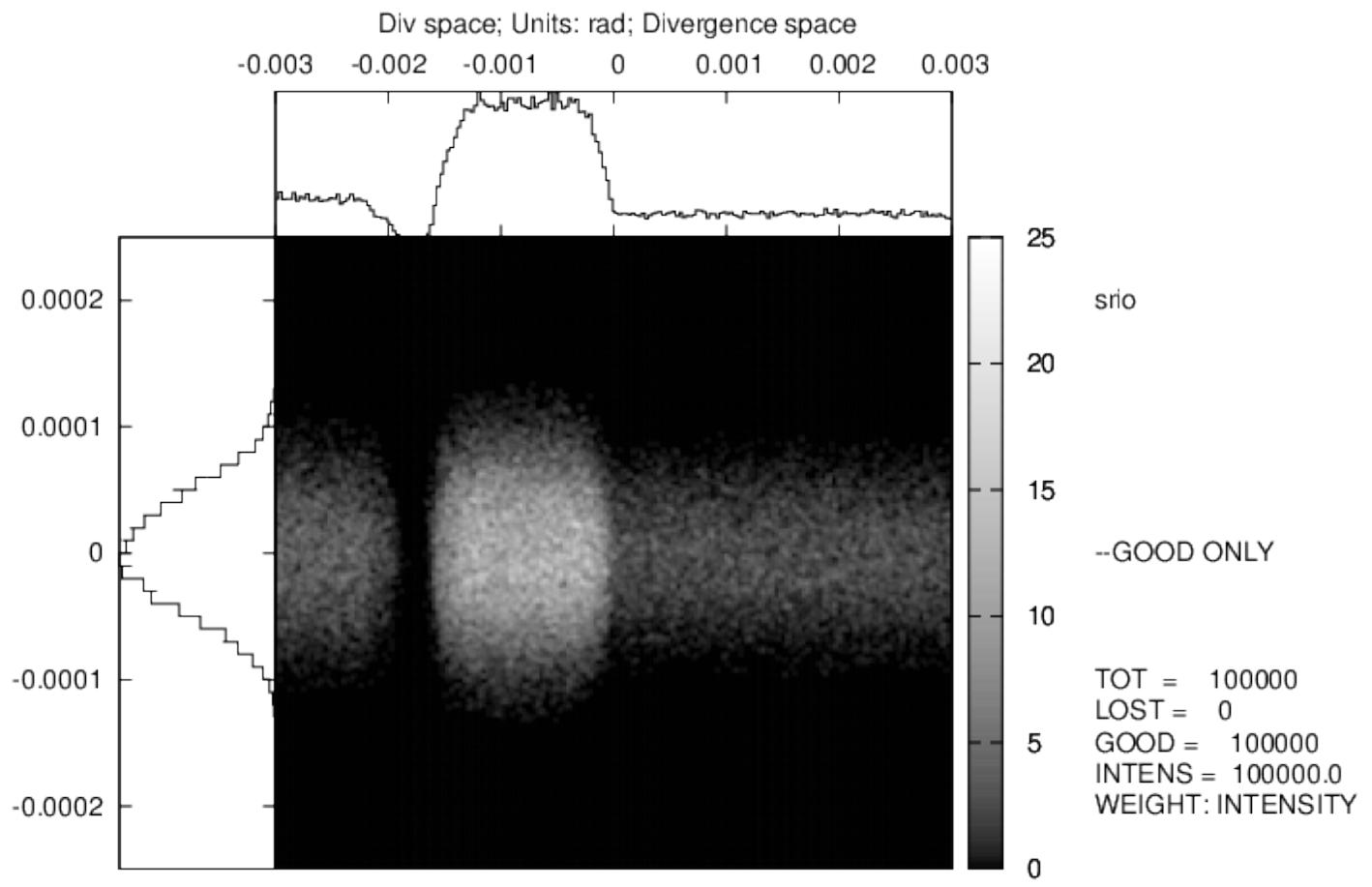


0.7.3. Finite Emittance; magnetic field: 2PA; E=20 keV

0.7.3.1. Divergence space

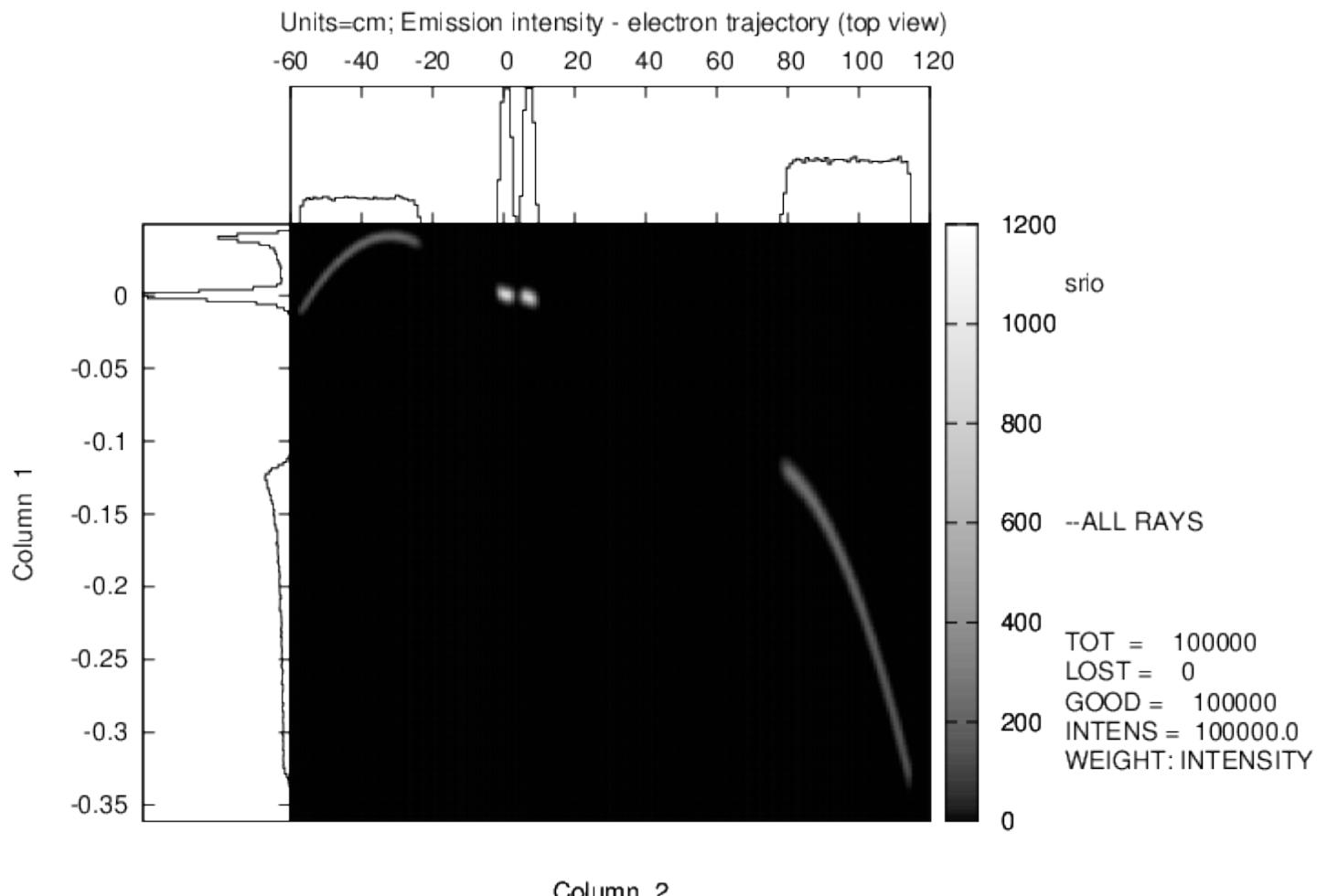
```

FW25M H: 2955.224 urad V: 141.791 urad
FWHM H: 1373.134 urad V: 106.965 urad
FW75M H: 1164.179 urad V: 67.164 urad
  
```



Column 4

0.7.3.2. Emission intensity - electron trajectory (top view)

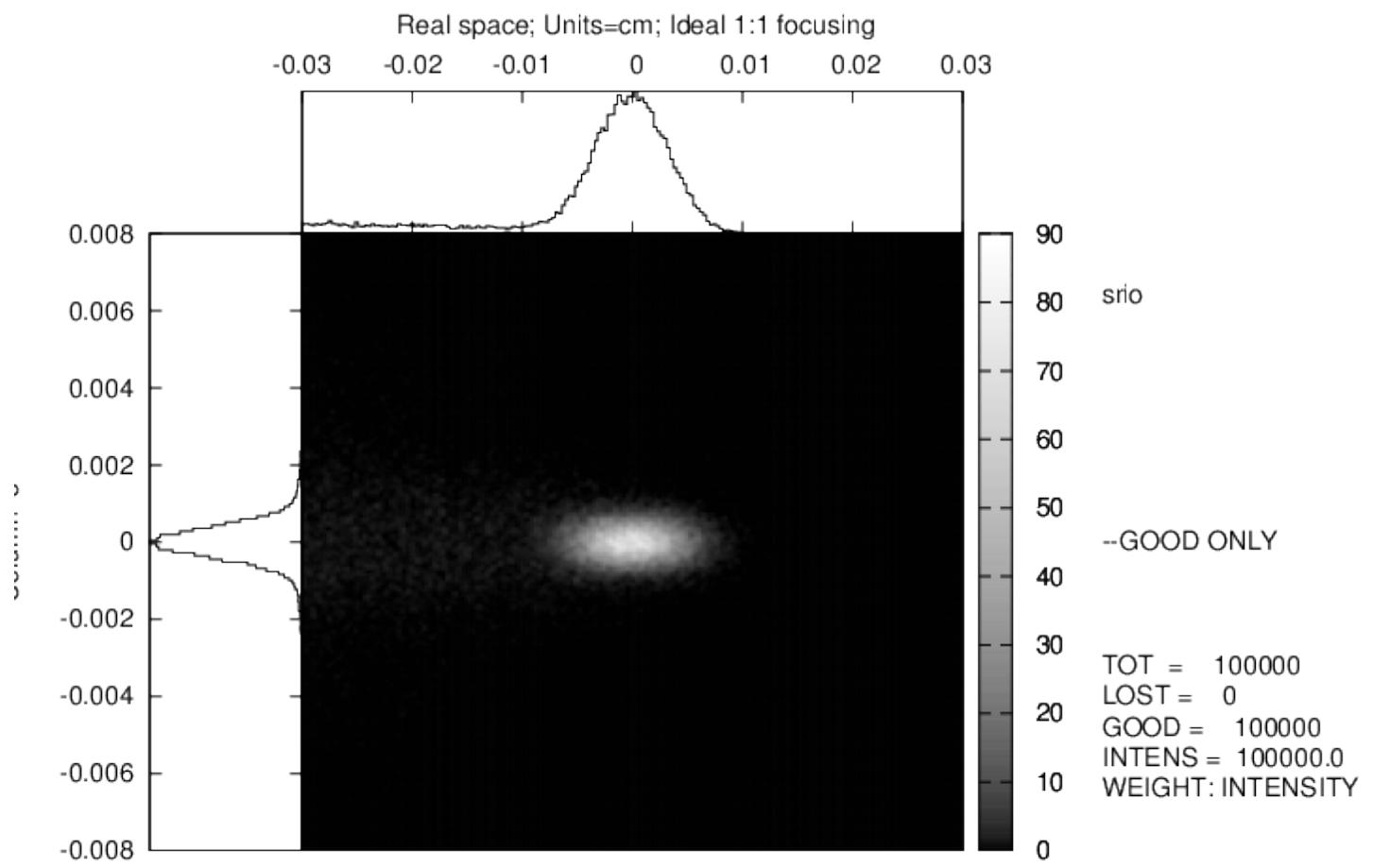


0.7.3.3. Ideal 1:1 focusing

FW25M H: 110.448 um V: 12.736 um

FWHM H: 71.642 um V: 9.552 um

FW75M H: 38.806 um V: 4.776 um



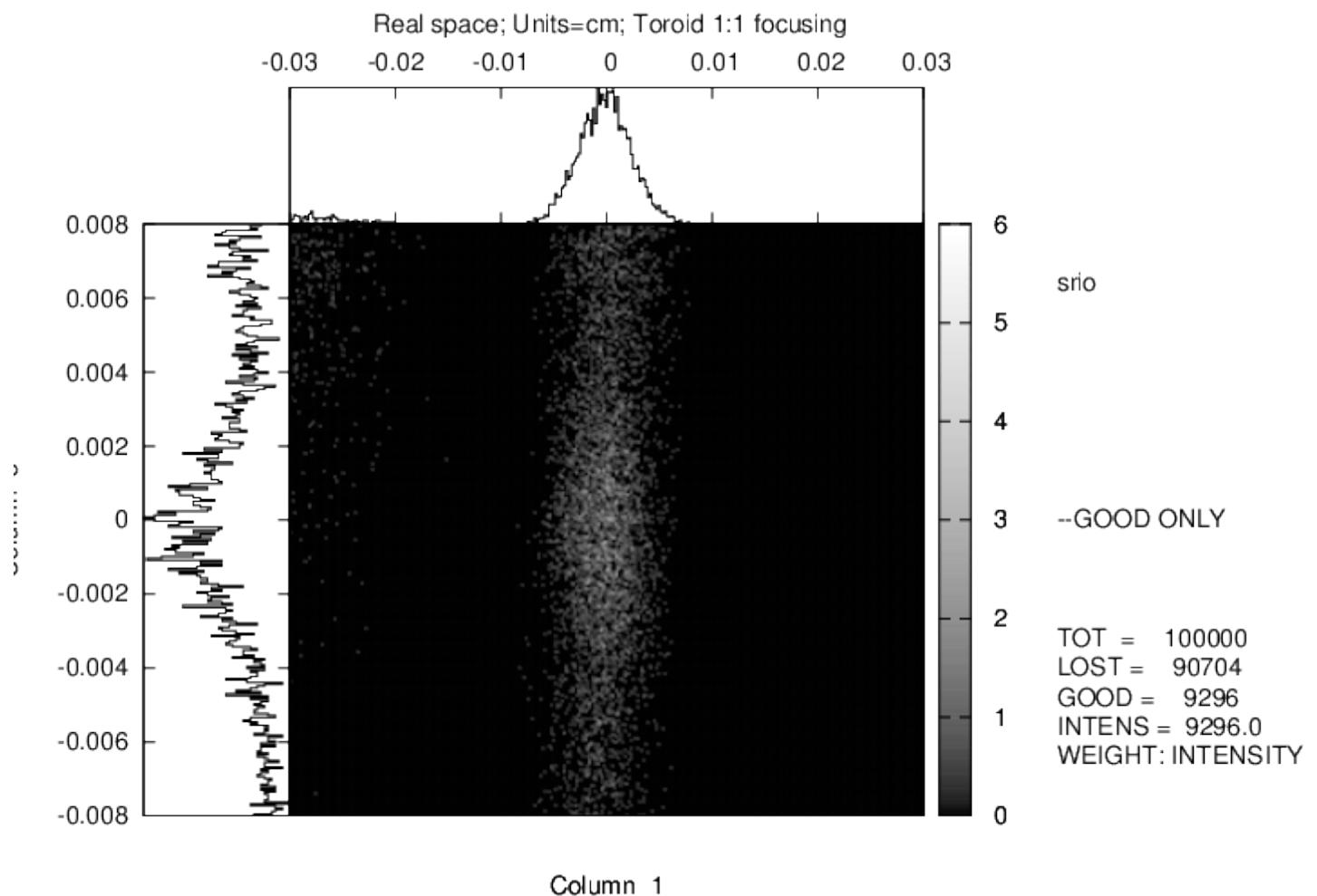
Column 1

0.7.3.4. Toroid 1:1 focusing

FW25M H: 79.734 um V: 158.937 um

FWHM H: 49.834 um V: 108.439 um

FW75M H: 27.907 um V: 23.389 um

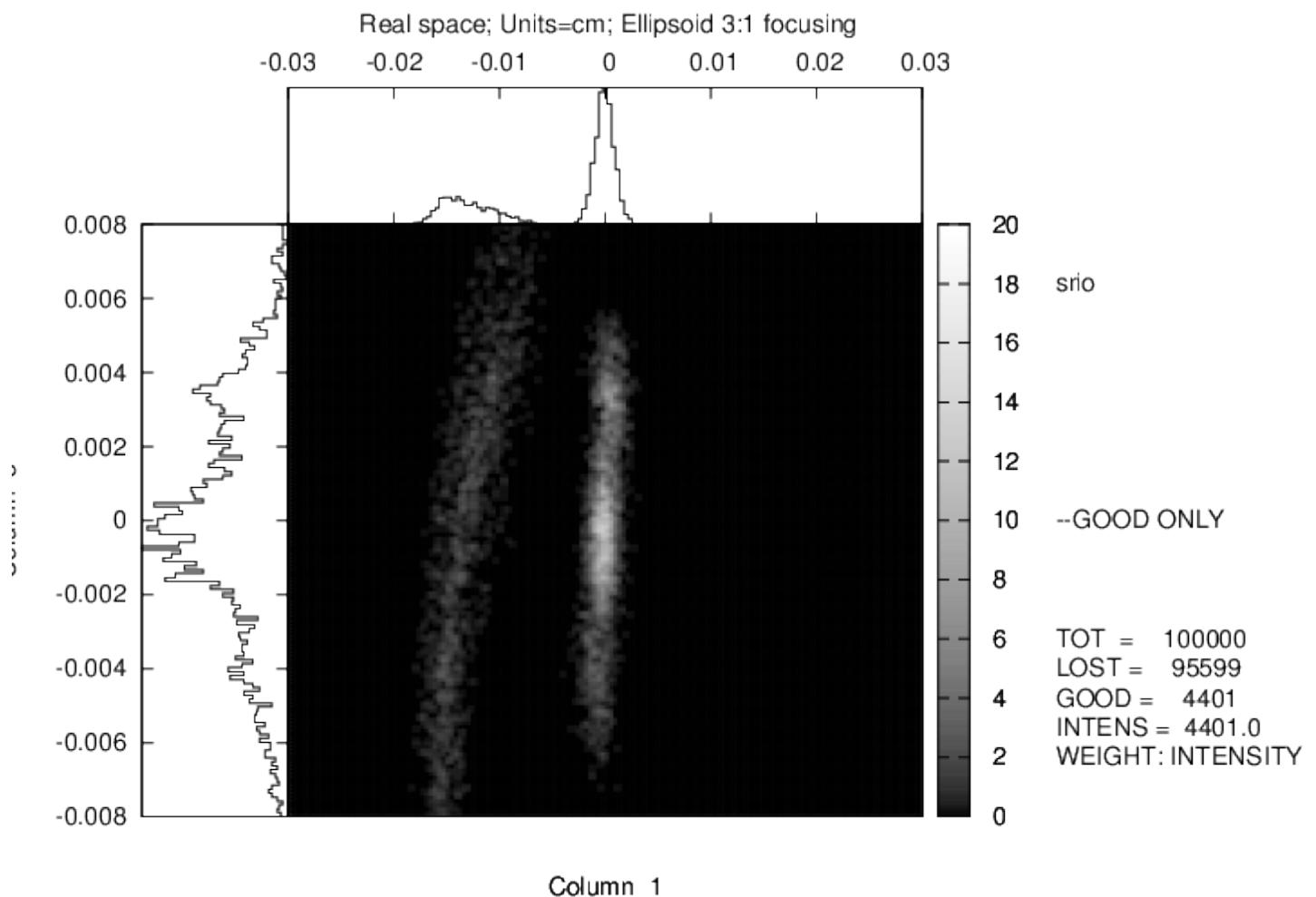


0.7.3.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 97.483 um

FWHM H: 15.894 um V: 54.040 um

FW75M H: 7.947 um V: 20.132 um



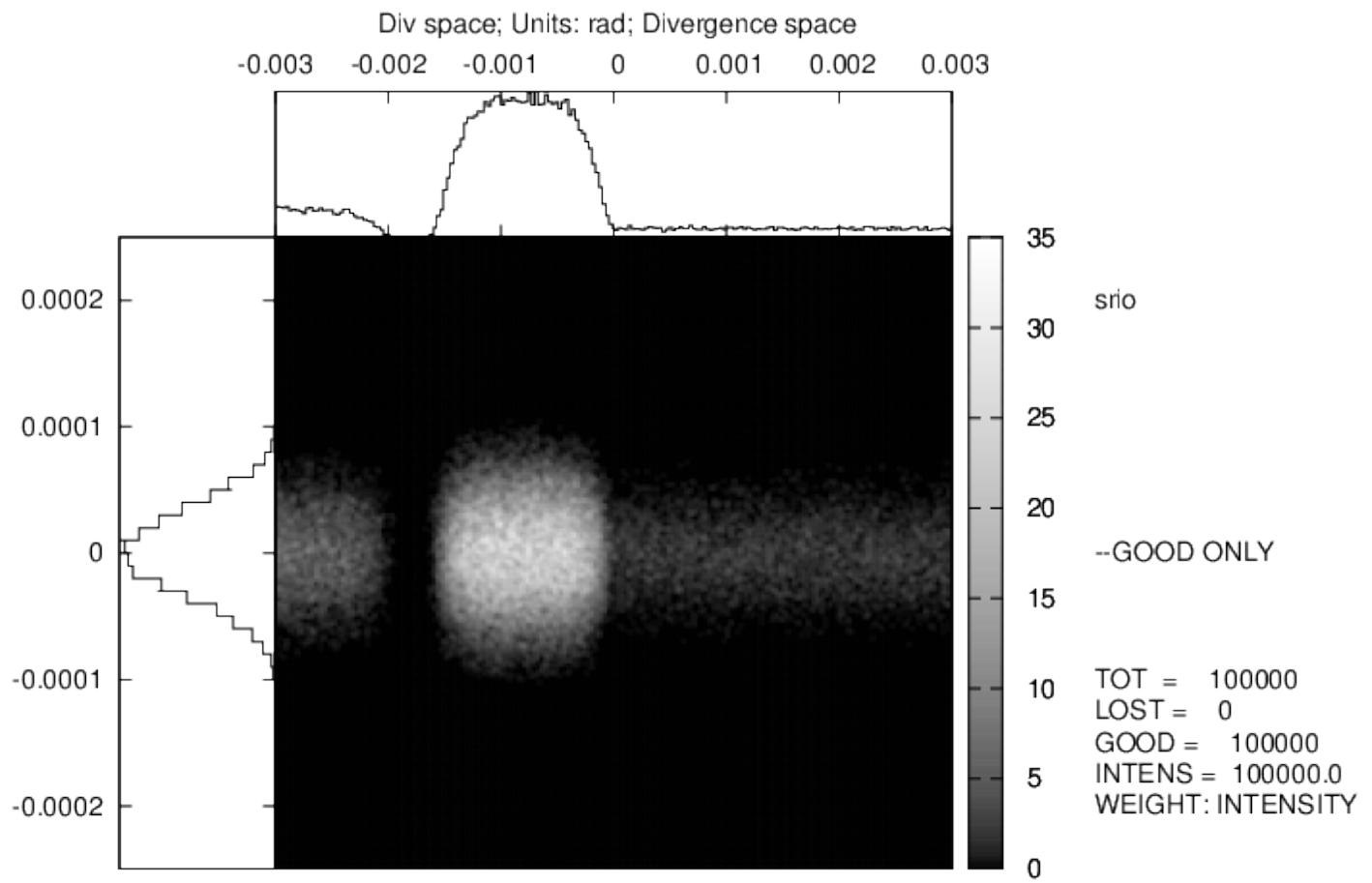
0.7.4. Finite Emittance; magnetic field: 2PA; E=40 keV

0.7.4.1. Divergence space

```

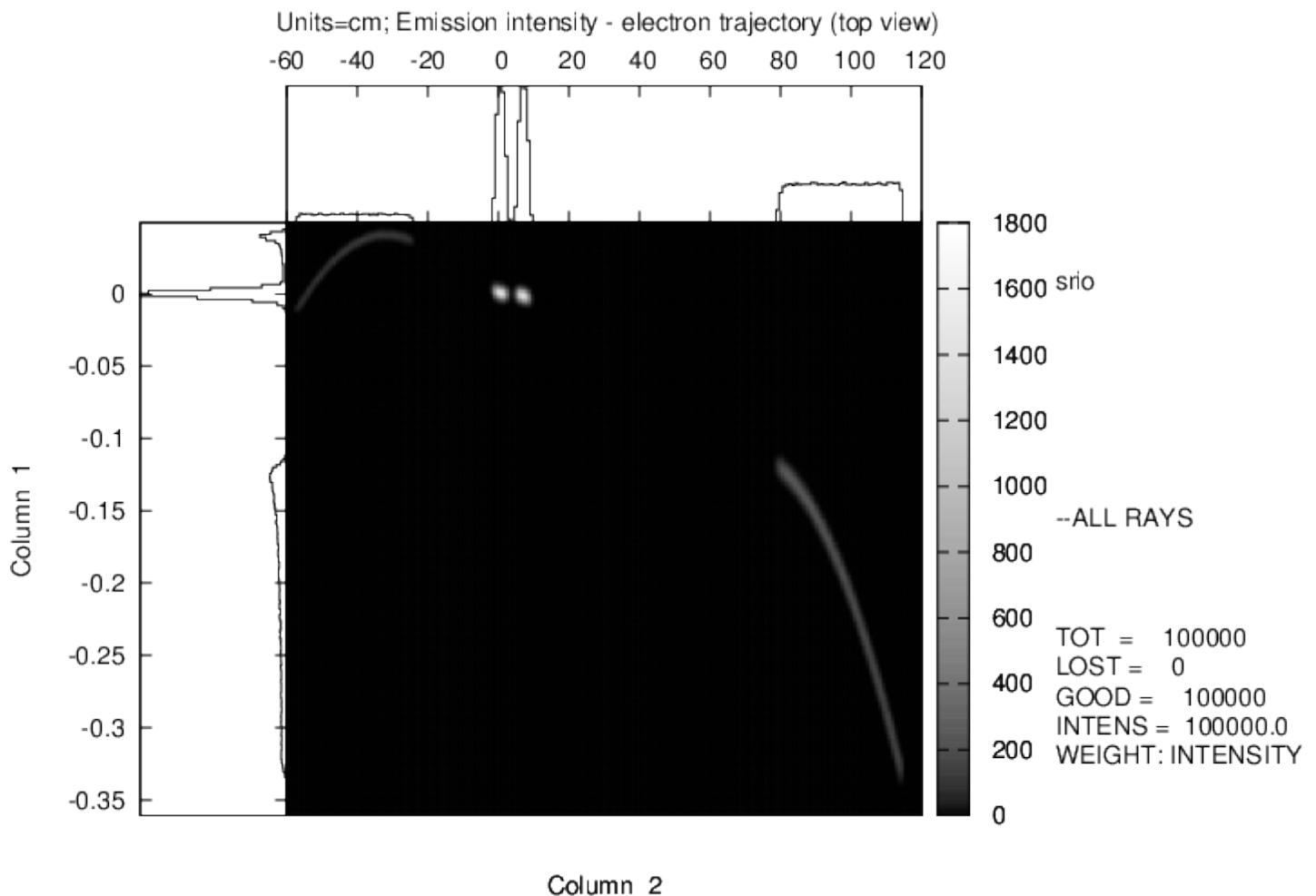
FW25M H: 1373.134 urad V: 111.940 urad
FWHM H: 1253.731 urad V: 77.114 urad
FW75M H: 985.075 urad V: 49.751 urad

```



Column 4

0.7.4.2. Emission intensity - electron trajectory (top view)

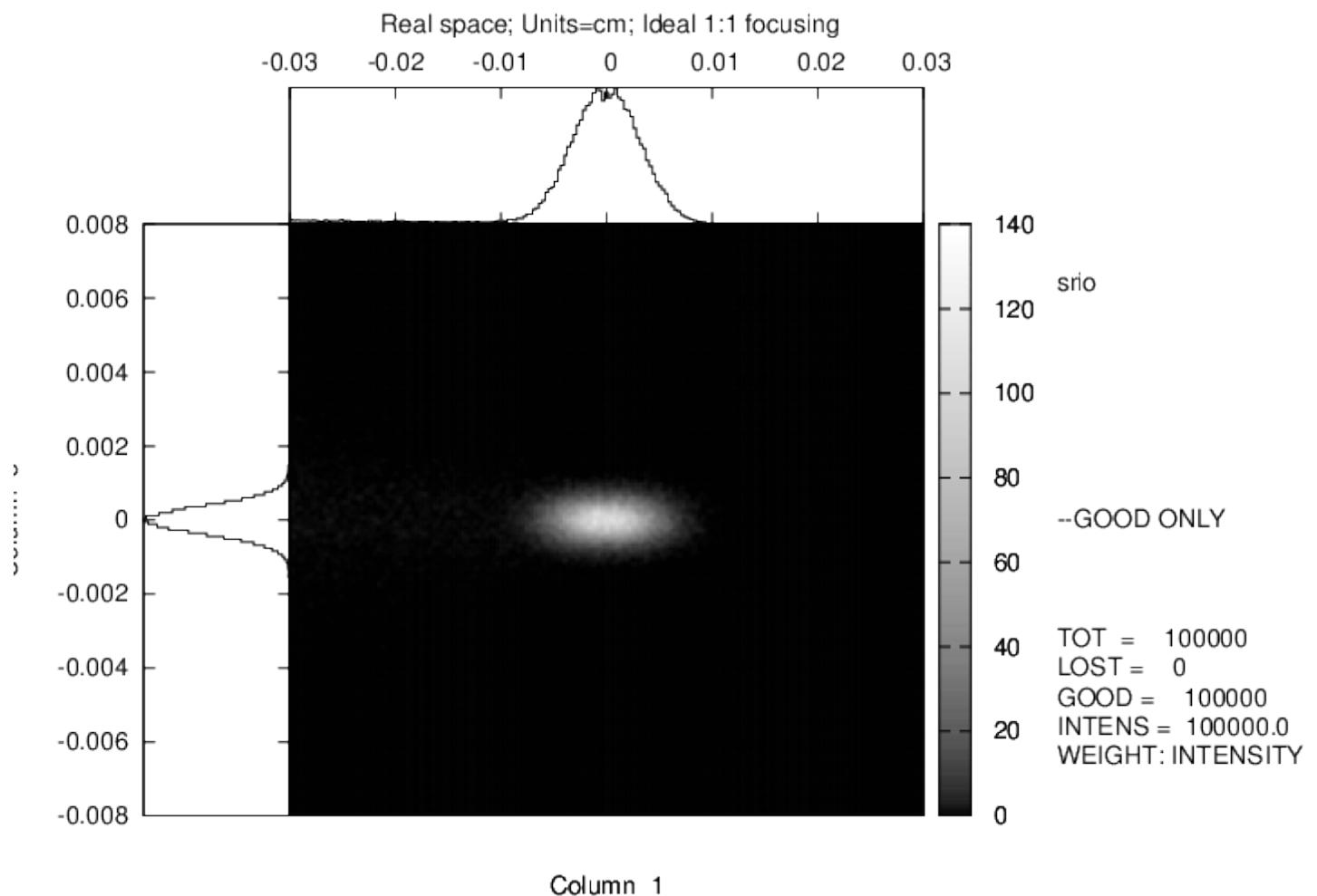


0.7.4.3. Ideal 1:1 focusing

FW25M H: 104.478 um V: 11.144 um

FWHM H: 74.627 um V: 7.960 um

FW75M H: 47.761 um V: 4.776 um

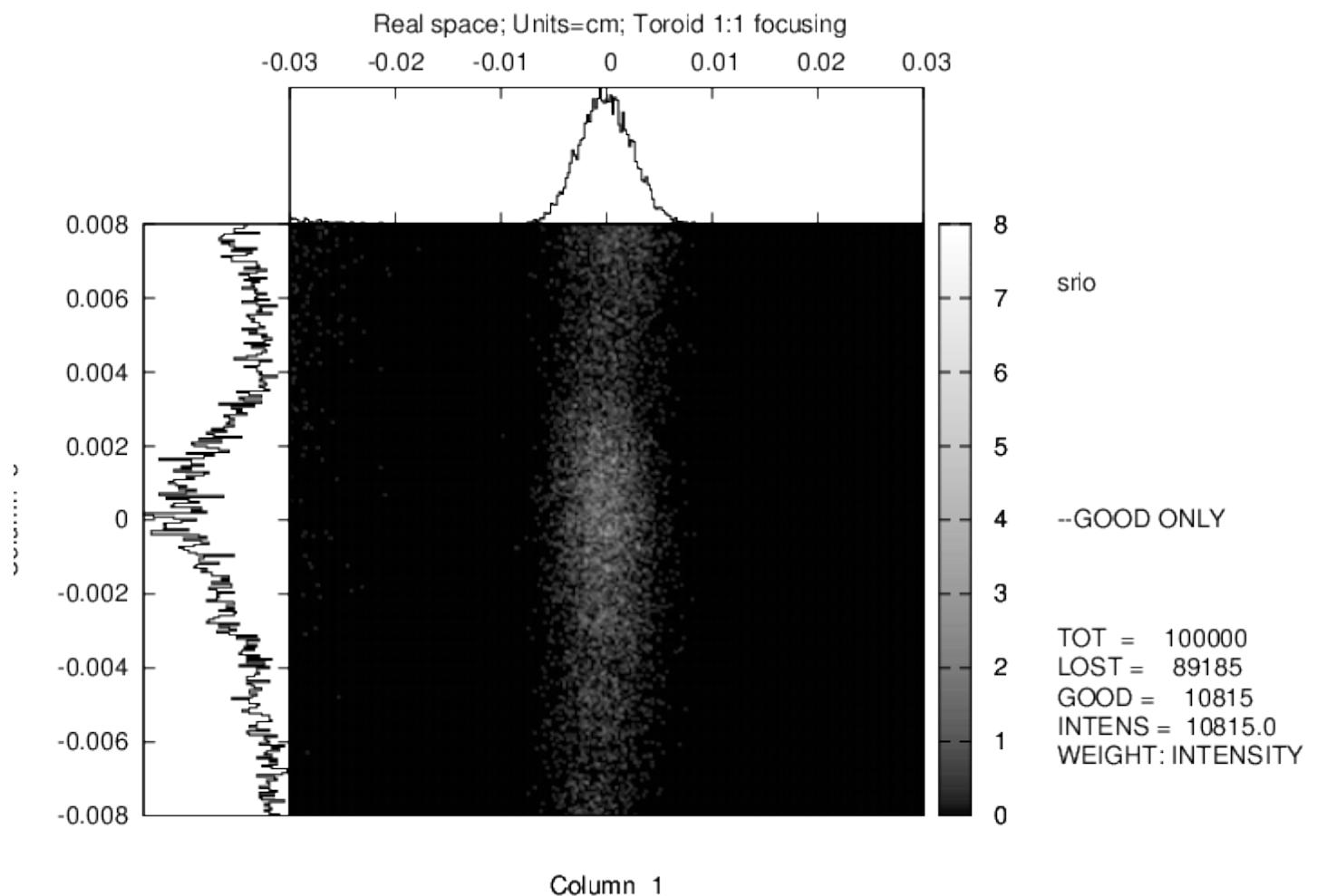


0.7.4.4. Toroid 1:1 focusing

FW25M H: 81.728 um V: 148.837 um

FWHM H: 57.807 um V: 106.312 um

FW75M H: 33.887 um V: 23.920 um

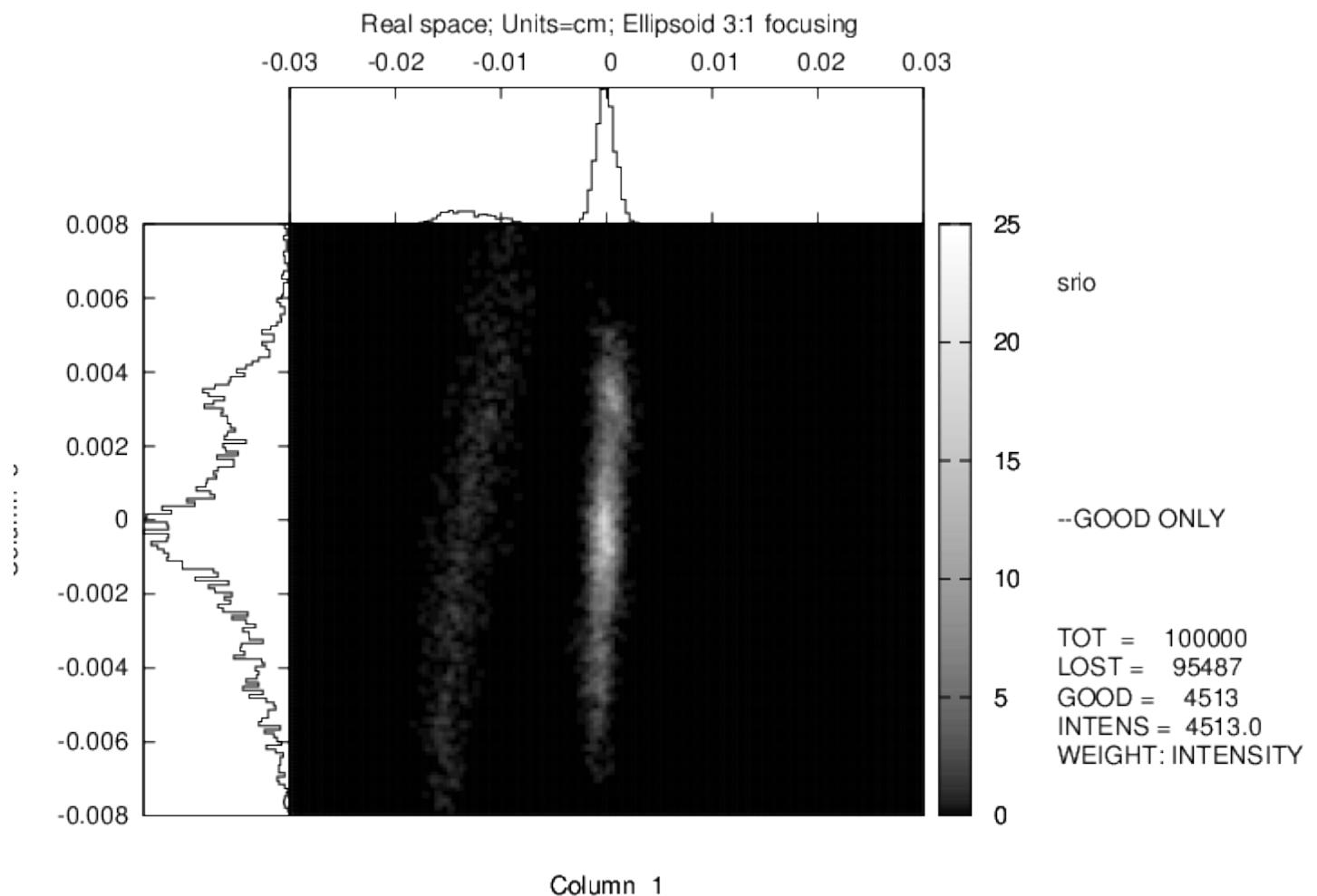


0.7.4.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 90.066 um

FWHM H: 15.894 um V: 55.099 um

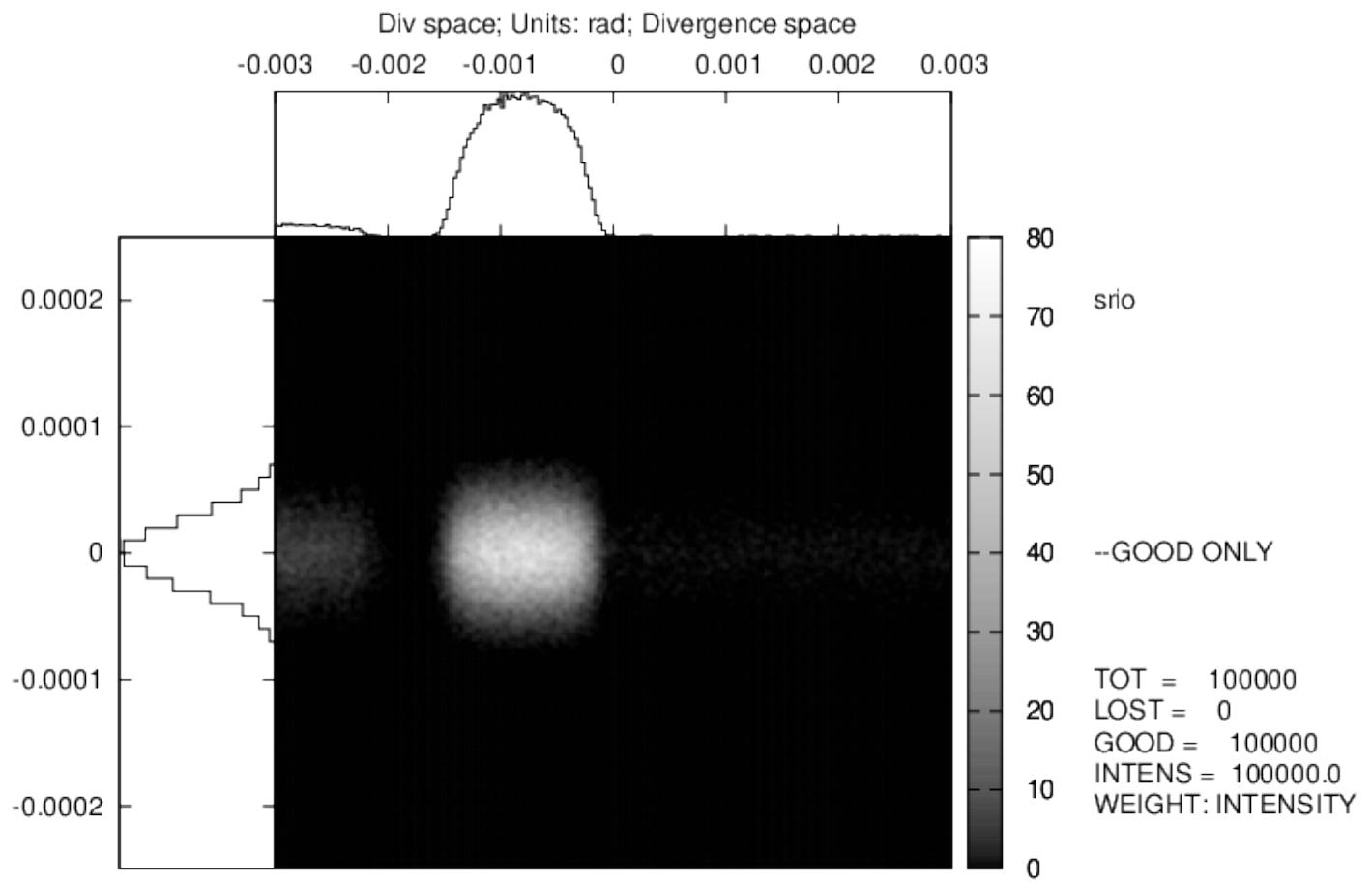
FW75M H: 7.947 um V: 13.775 um



0.7.5. Finite Emittance; magnetic field: 2PA; E=80 keV

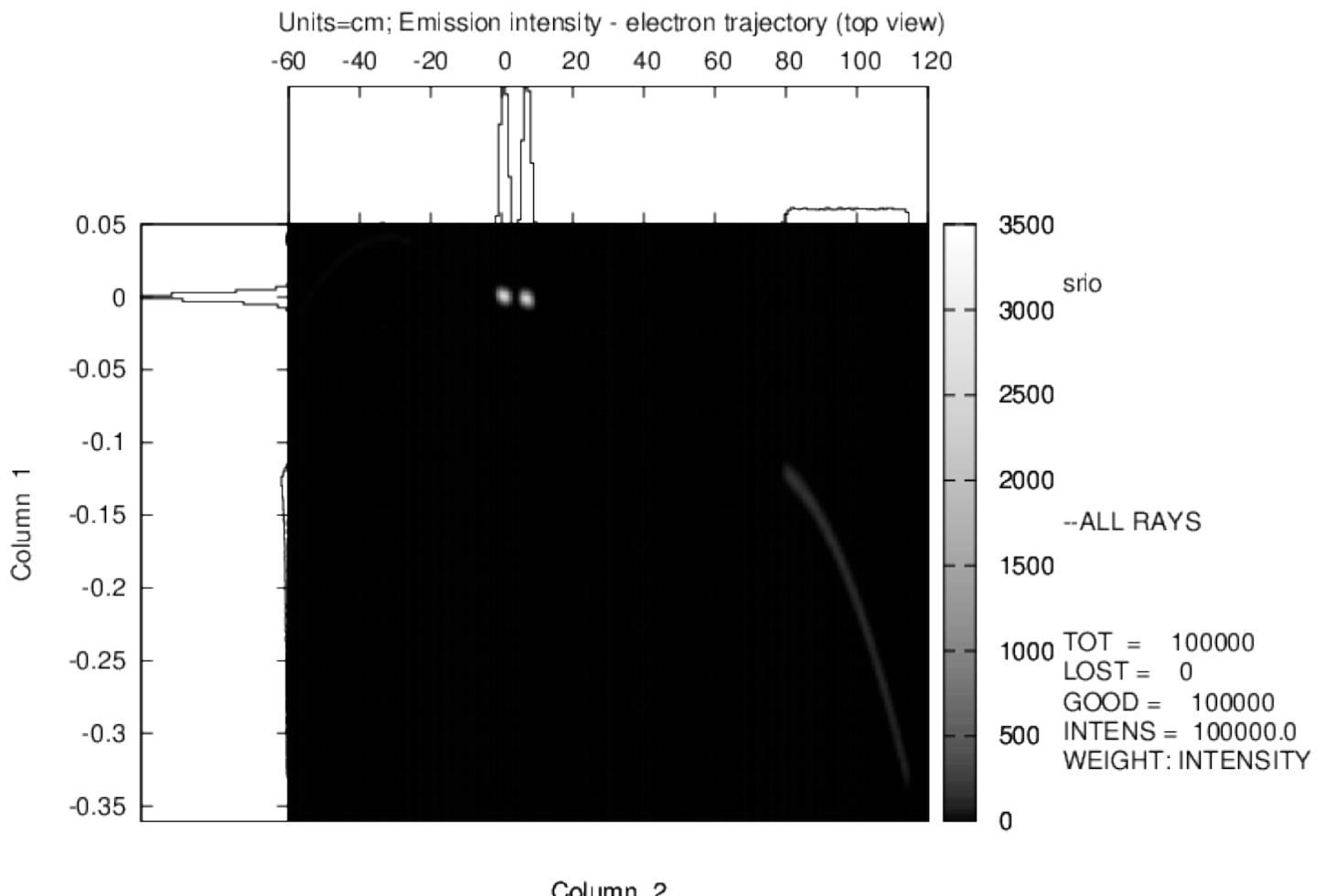
0.7.5.1. Divergence space

FW25M H: 1253.731 urad V: 82.090 urad
 FWHM H: 1074.627 urad V: 57.214 urad
 FW75M H: 805.970 urad V: 34.826 urad



Column 4

0.7.5.2. Emission intensity - electron trajectory (top view)

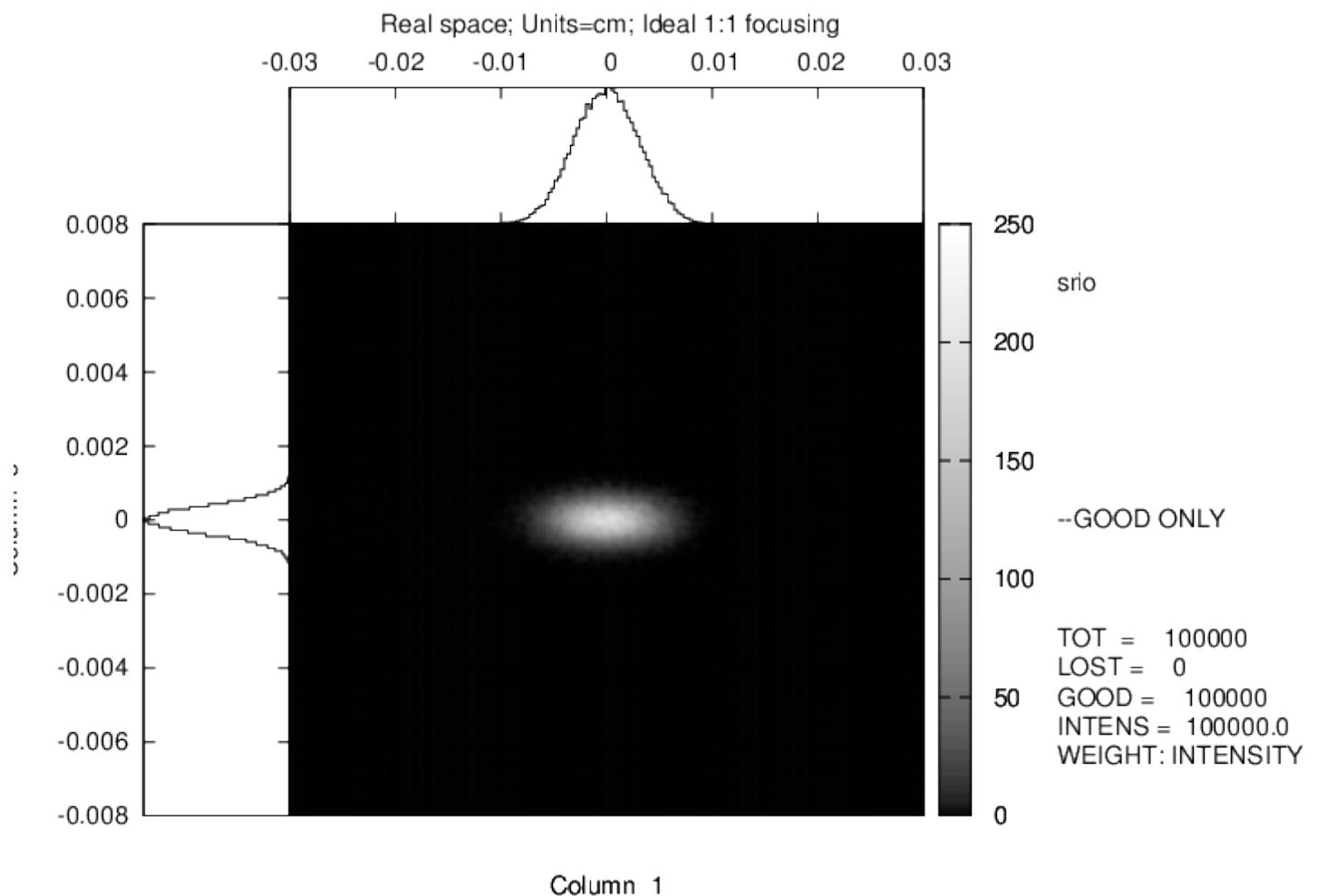


0.7.5.3. Ideal 1:1 focusing

FW25M H: 101.493 um V: 11.144 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 44.776 um V: 4.776 um

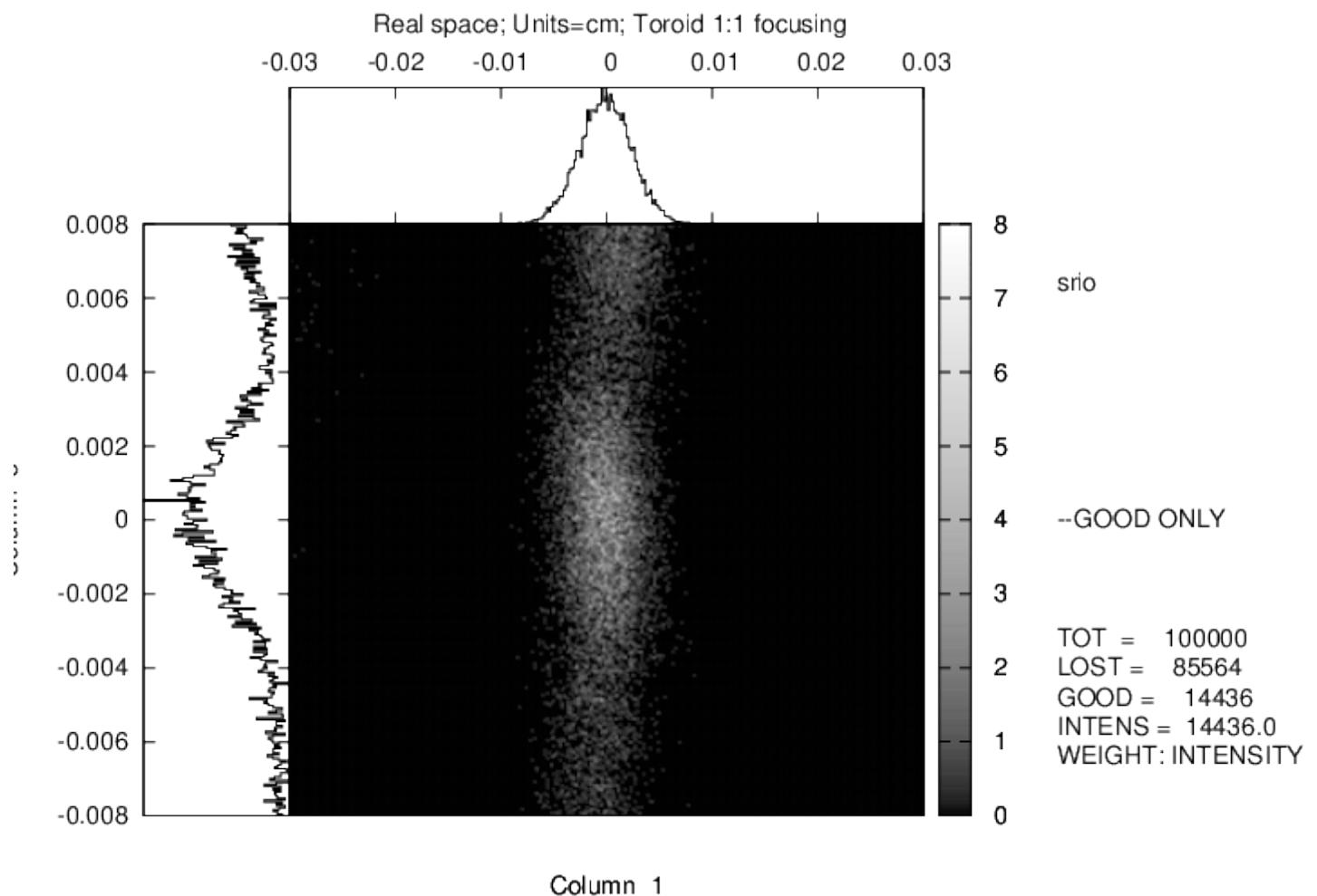


0.7.5.4. Toroid 1:1 focusing

FW25M H: 73.754 um V: 133.422 um

FWHM H: 53.821 um V: 45.183 um

FW75M H: 33.887 um V: 14.884 um

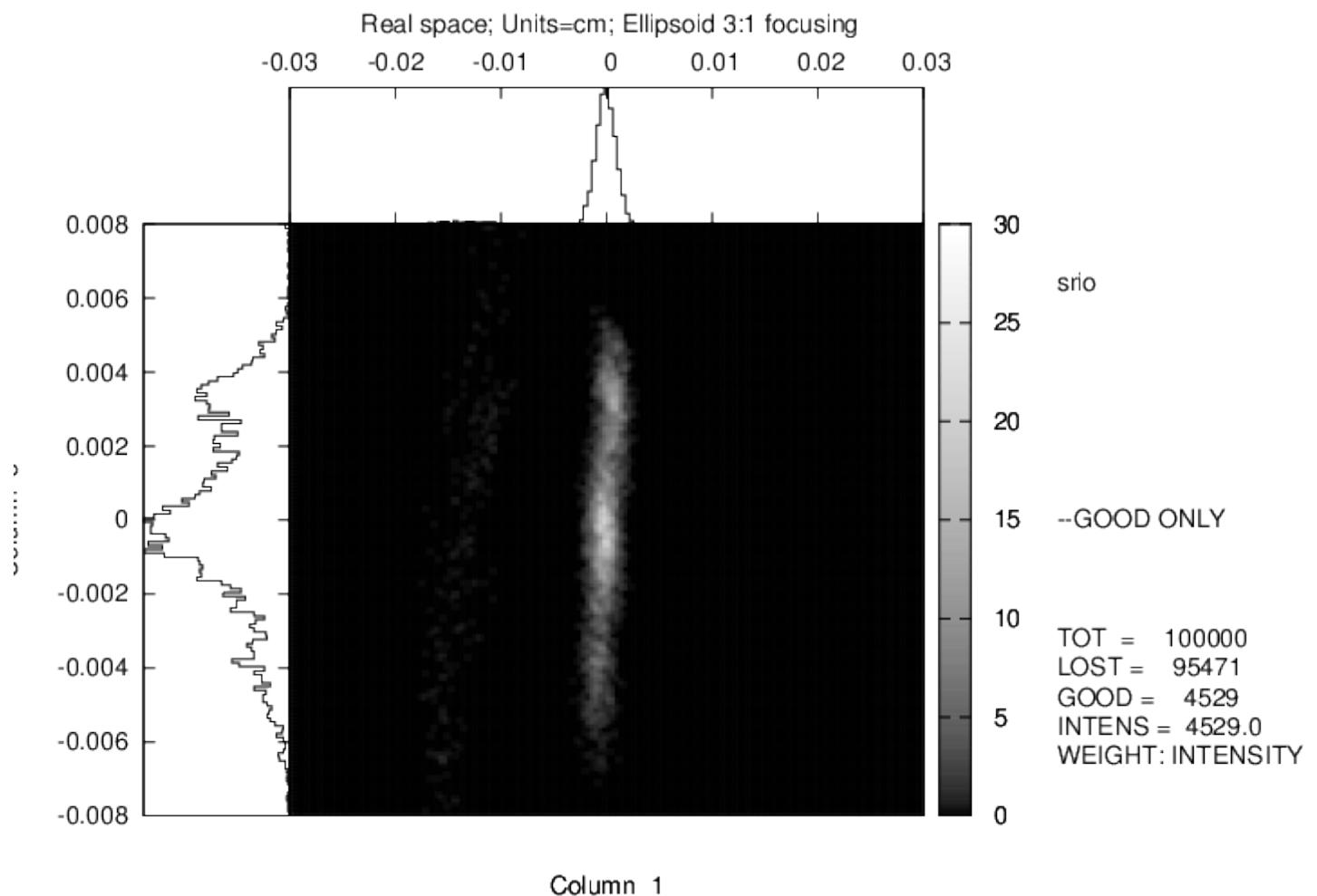


0.7.5.5. Ellipsoid 3:1 focusing

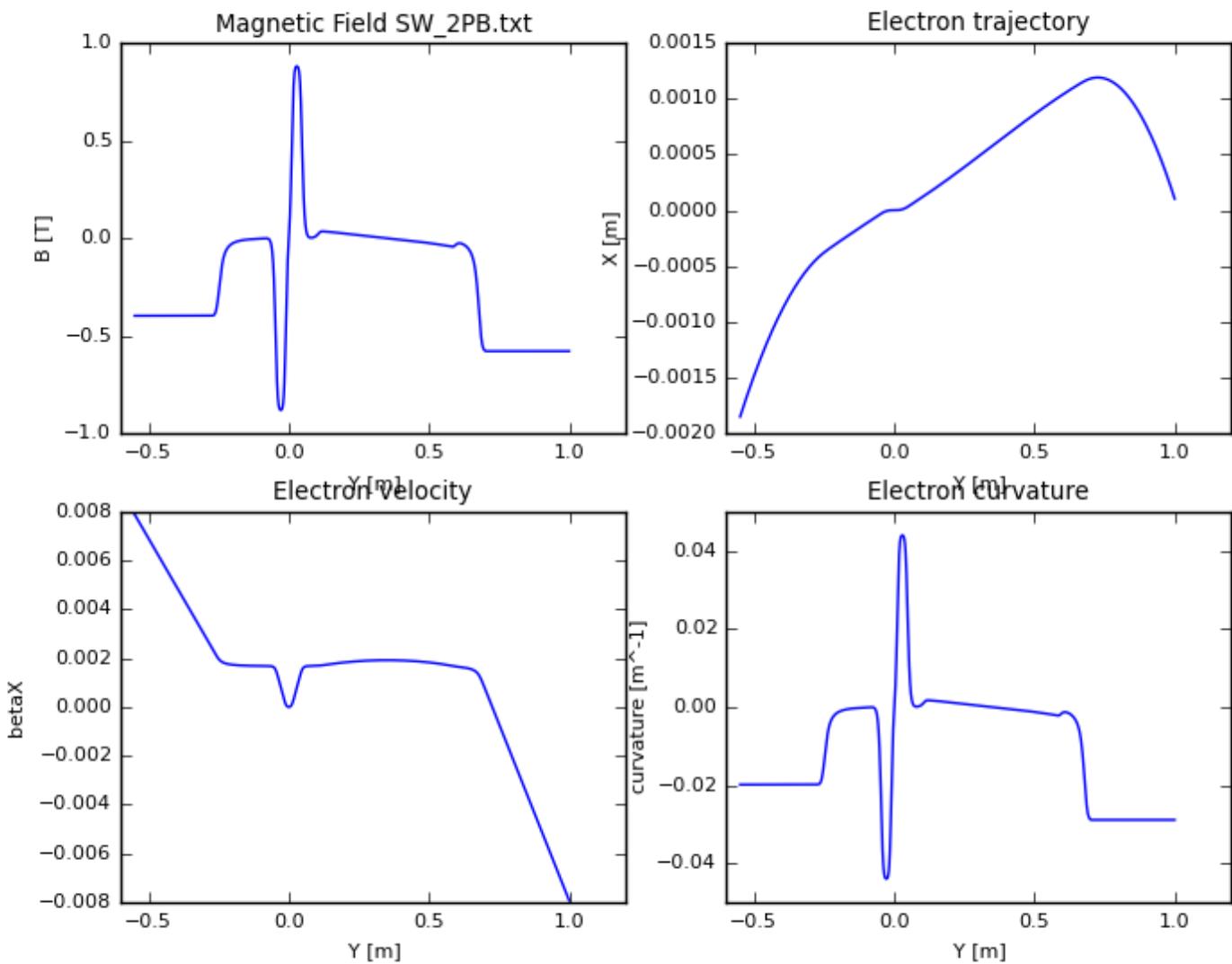
FW25M H: 23.841 um V: 82.649 um

FWHM H: 15.894 um V: 52.980 um

FW75M H: 7.947 um V: 12.715 um



0.8. Finite Emittance; magnetic field: 2PB



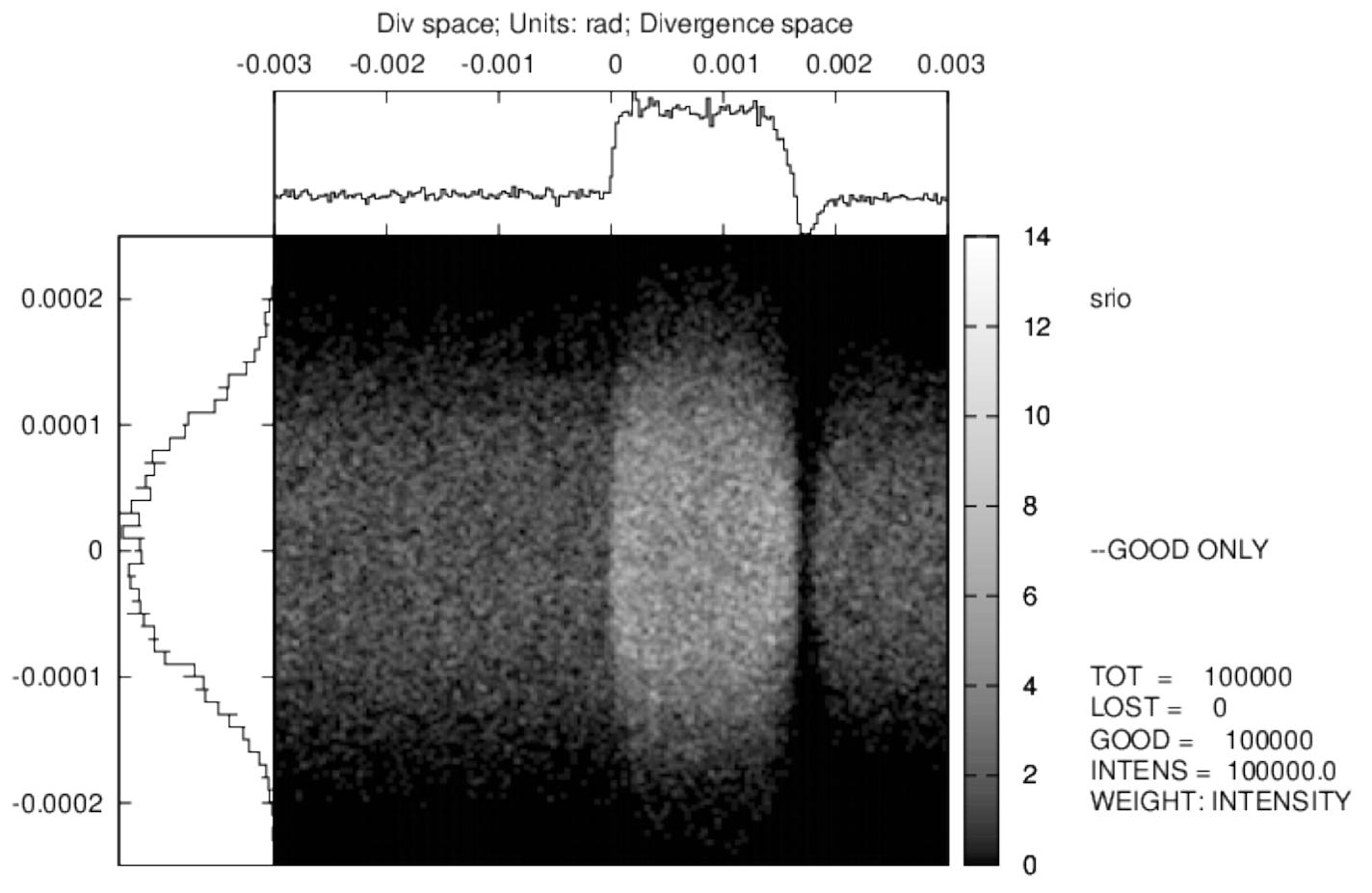
0.8.1. Finite Emittance; magnetic field: 2PB; E=5 keV

0.8.1.1. Divergence space

FW25M H: 5970.149 urad V: 271.144 urad

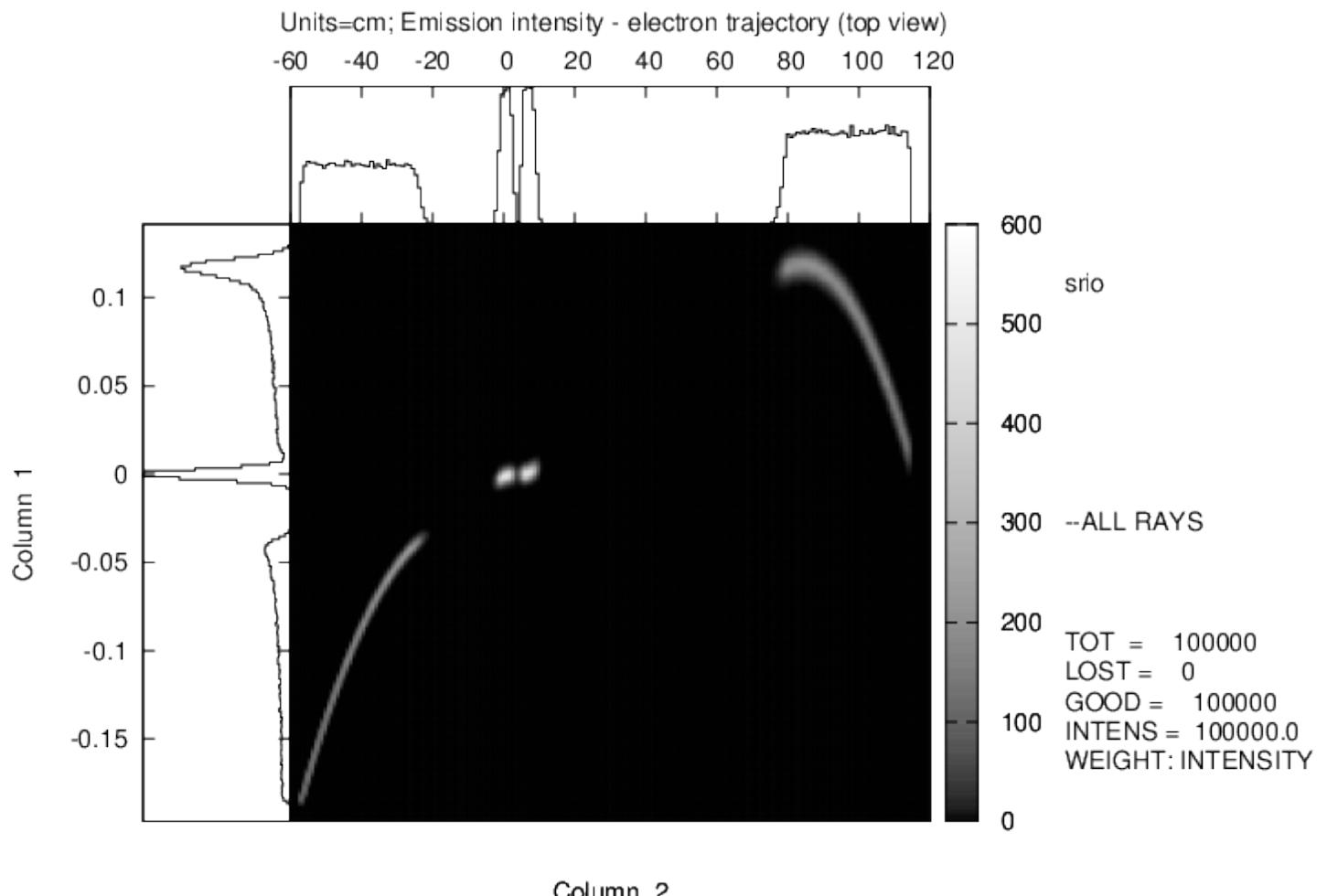
FWHM H: 1522.388 urad V: 213.930 urad

FW75M H: 1373.134 urad V: 149.254 urad



Column 4

0.8.1.2. Emission intensity - electron trajectory (top view)

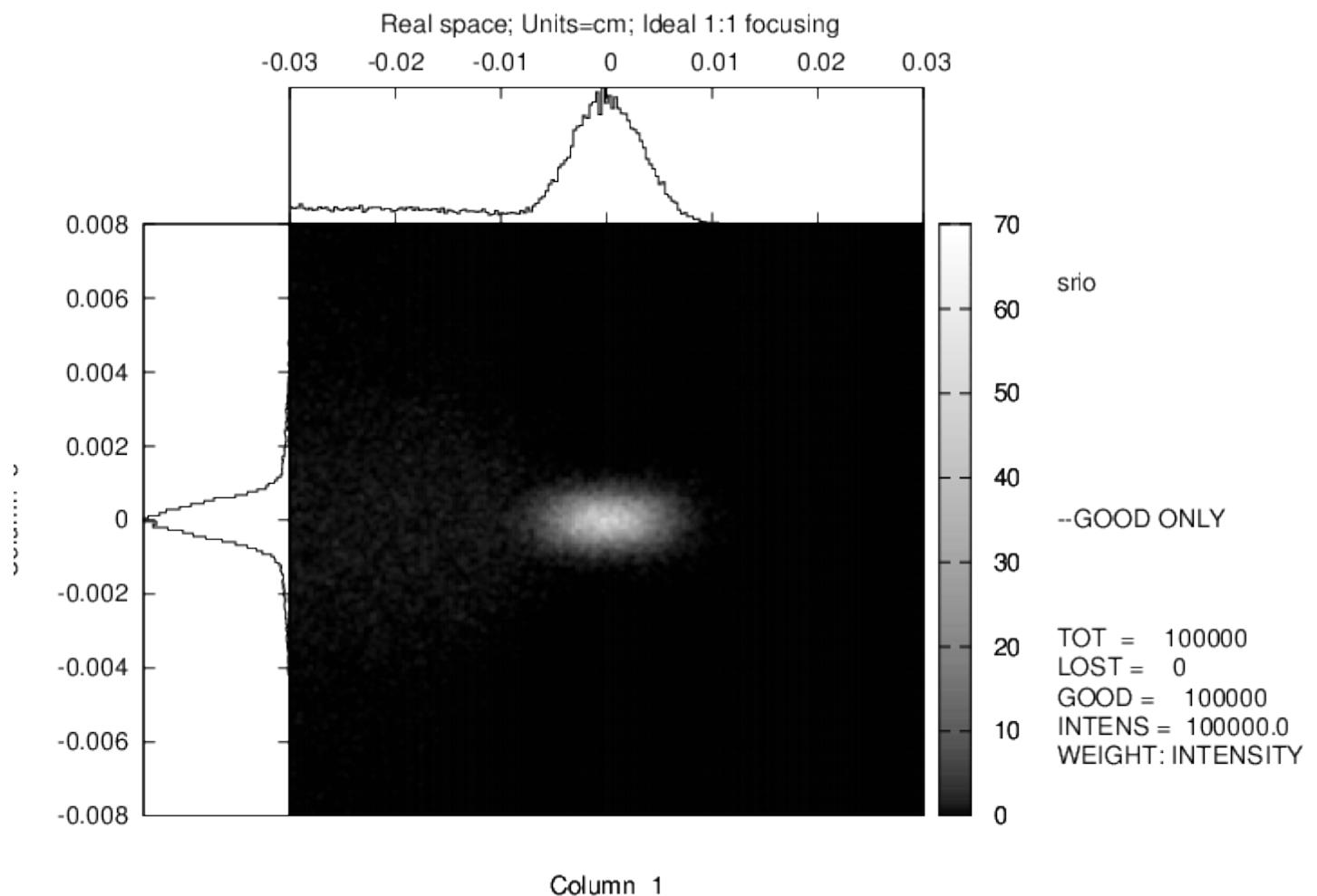


0.8.1.3. Ideal 1:1 focusing

FW25M H: 107.463 um V: 14.328 um

FWHM H: 68.657 um V: 10.348 um

FW75M H: 41.791 um V: 5.572 um



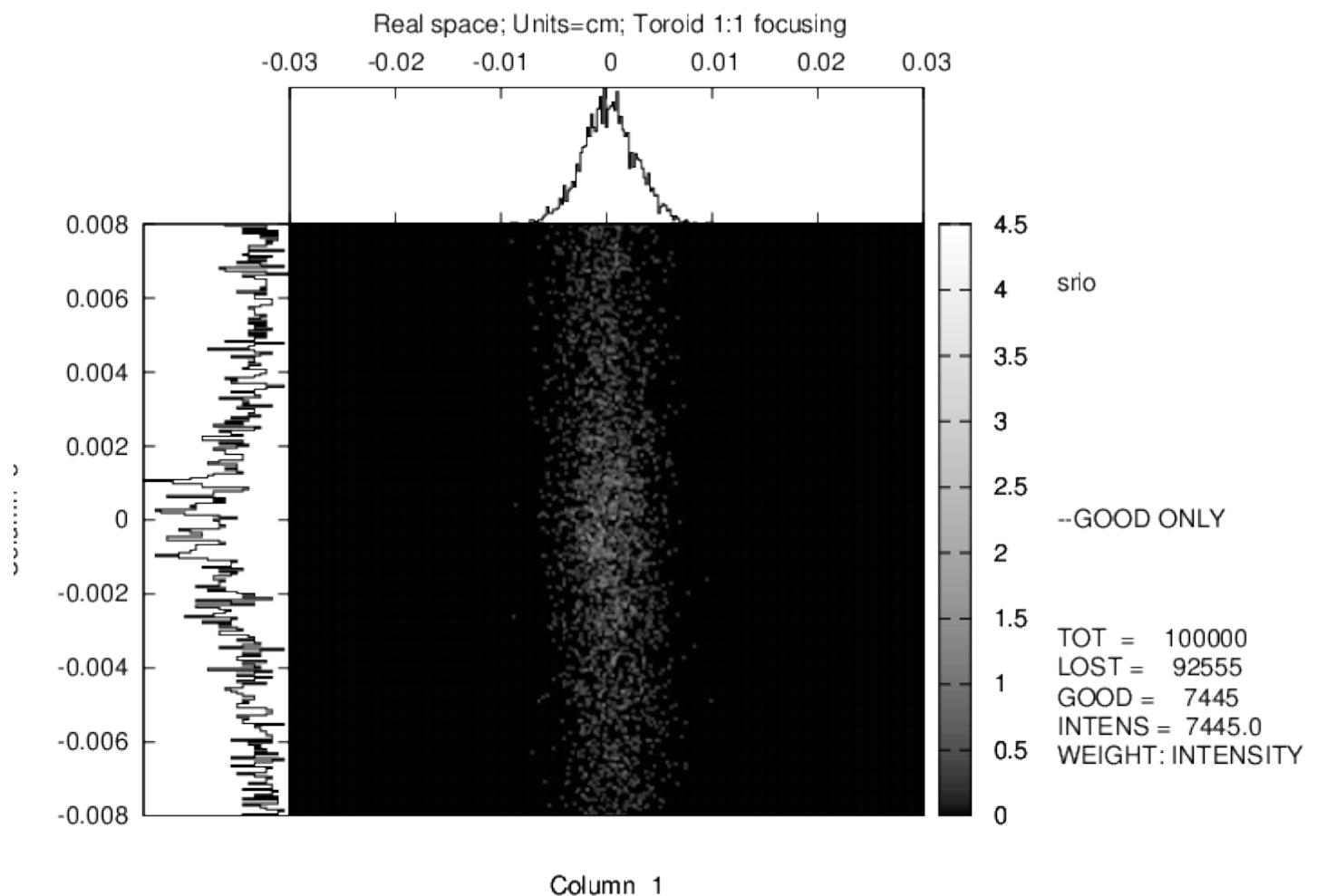
Column 1

0.8.1.4. Toroid 1:1 focusing

FW25M H: 83.721 um V: 159.468 um

FWHM H: 51.827 um V: 86.645 um

FW75M H: 27.907 um V: 20.731 um



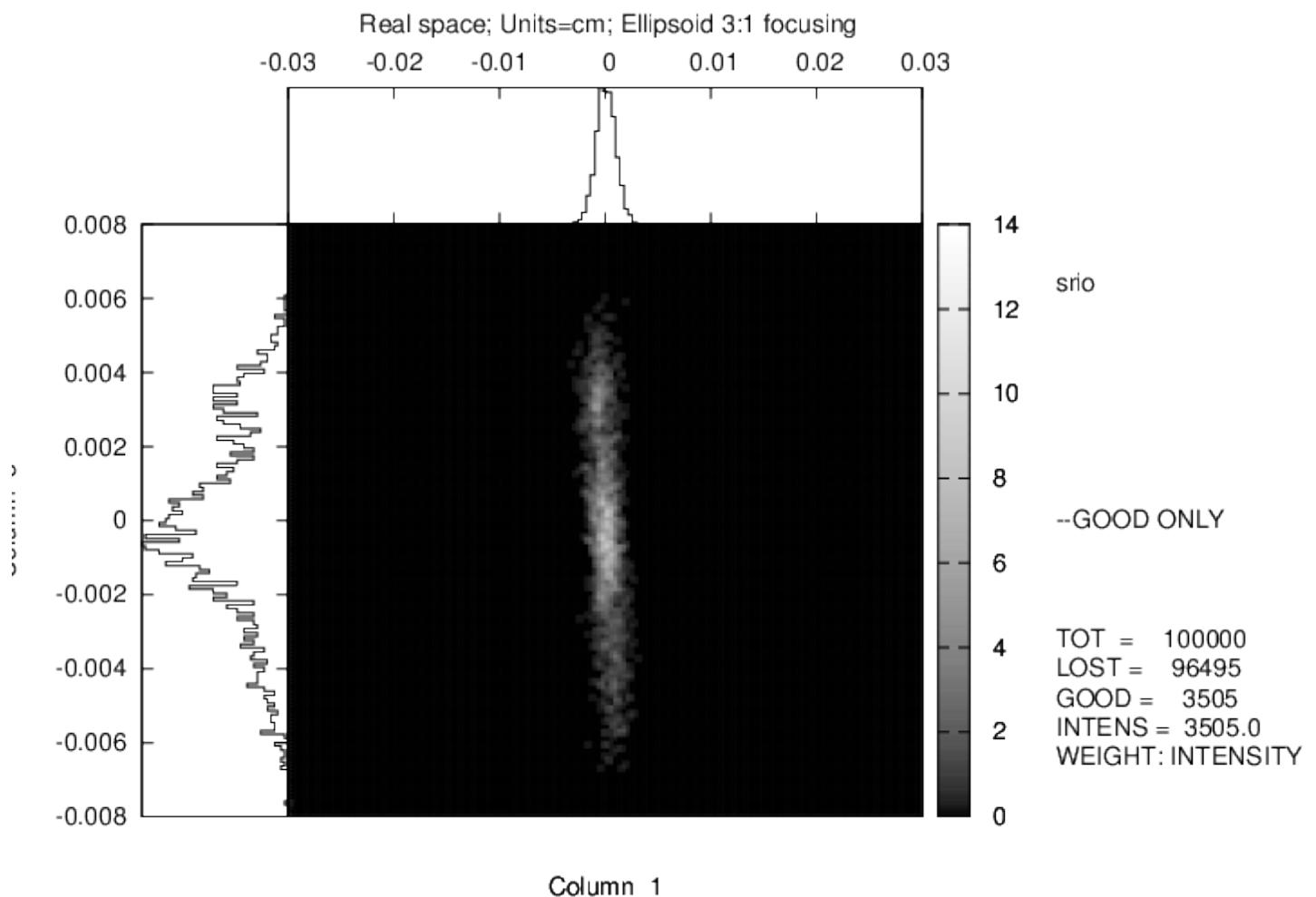
Column 1

0.8.1.5. Ellipsoid 3:1 focusing

FW25M H: 27.815 um V: 85.828 um

FWHM H: 15.894 um V: 57.219 um

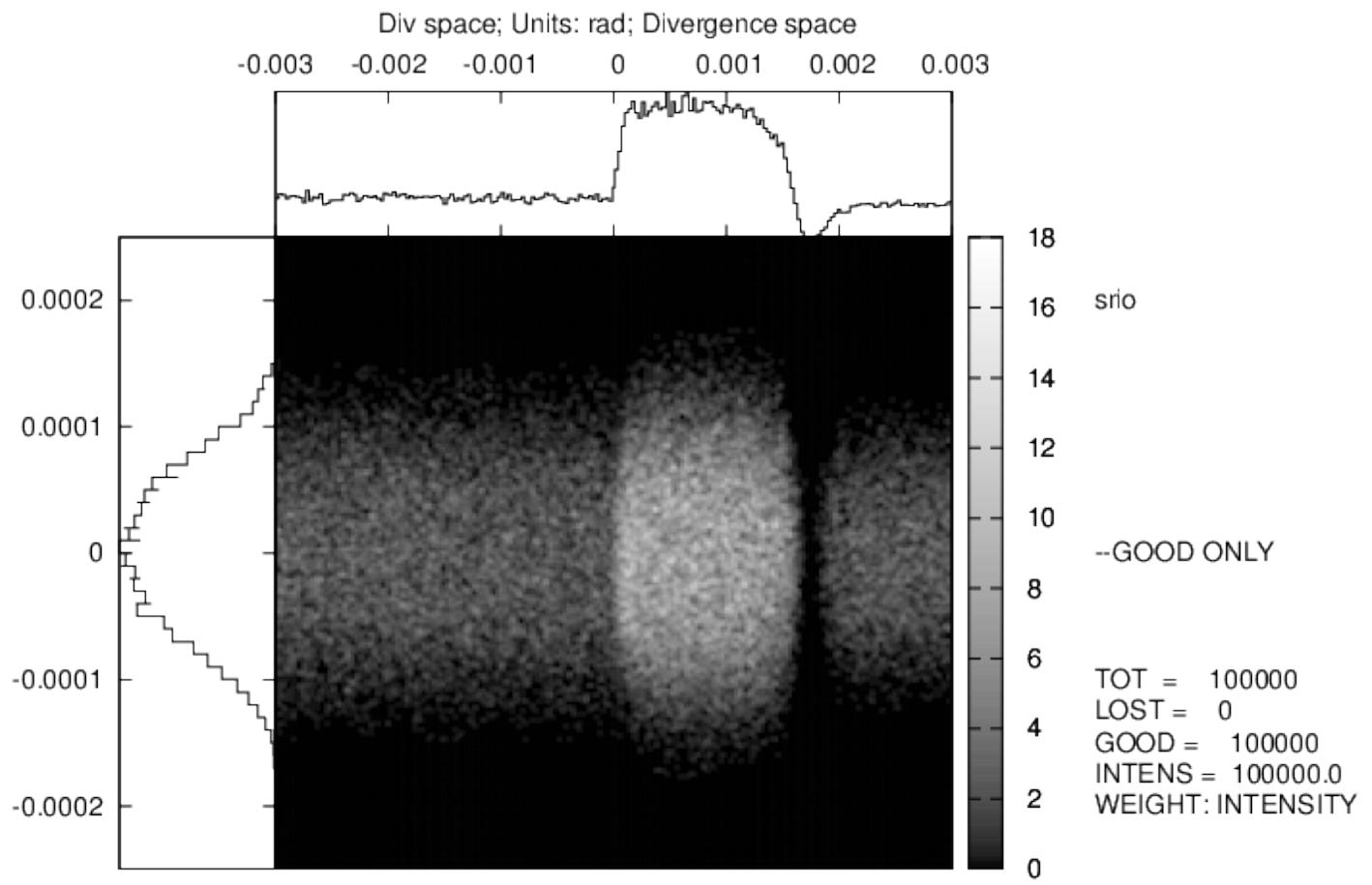
FW75M H: 11.921 um V: 16.954 um



0.8.2. Finite Emittance; magnetic field: 2PB; E=10 keV

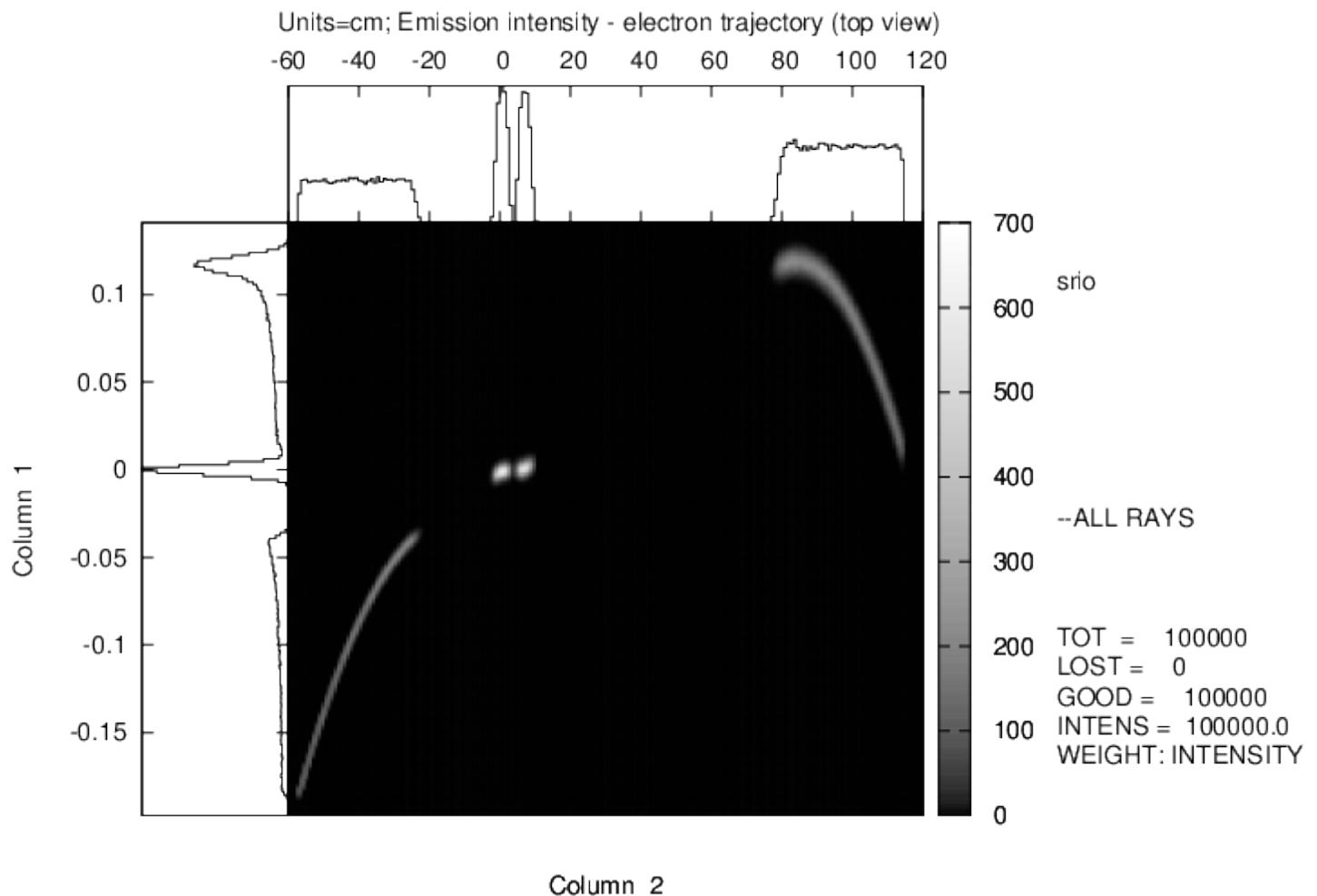
0.8.2.1. Divergence space

FW25M H: 5522.388 urad V: 203.980 urad
 FWHM H: 1462.687 urad V: 149.254 urad
 FW75M H: 1223.881 urad V: 106.965 urad



Column 4

0.8.2.2. Emission intensity - electron trajectory (top view)

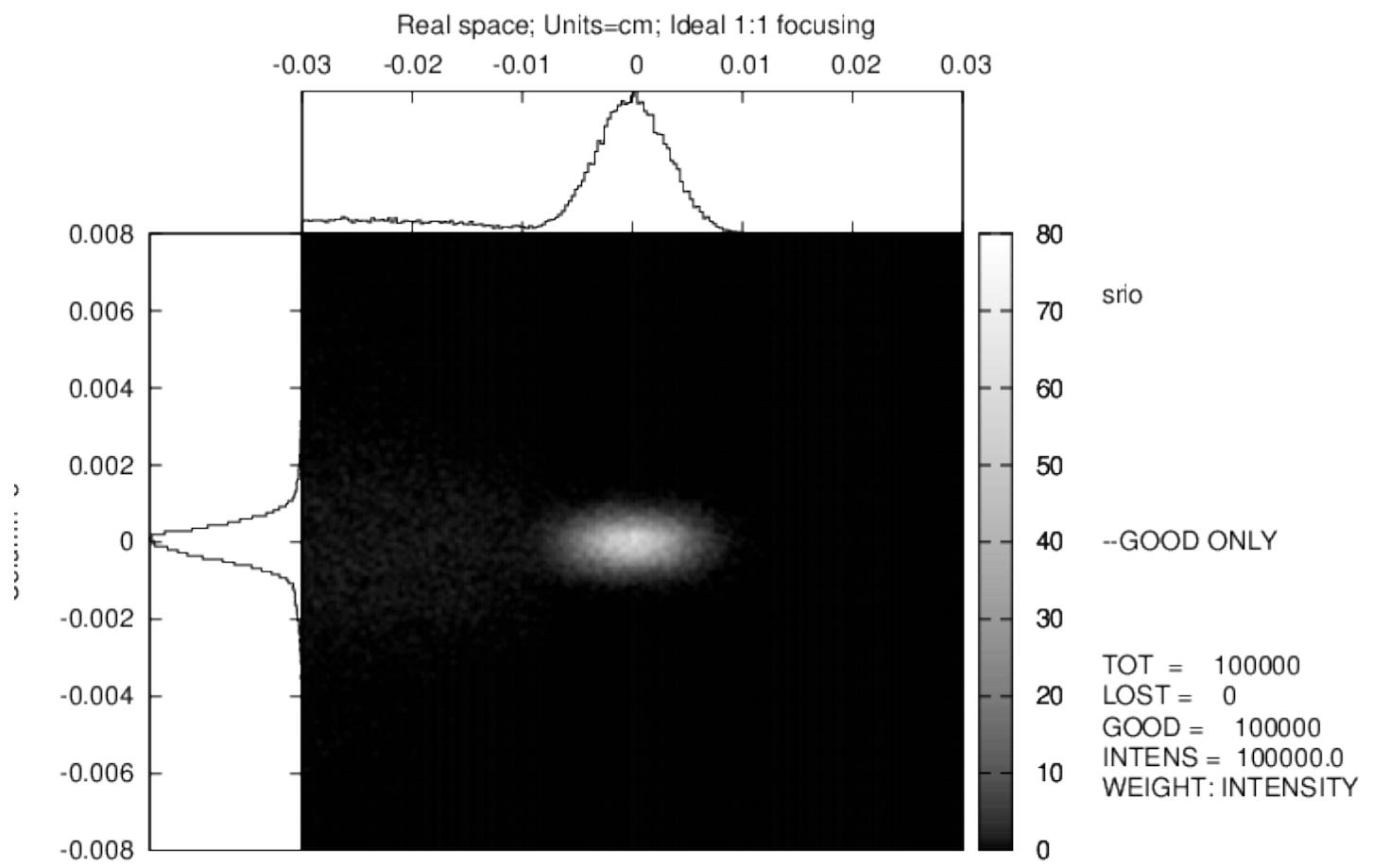


0.8.2.3. Ideal 1:1 focusing

FW25M H: 104.478 um V: 13.532 um

FWHM H: 68.657 um V: 8.756 um

FW75M H: 41.791 um V: 5.572 um



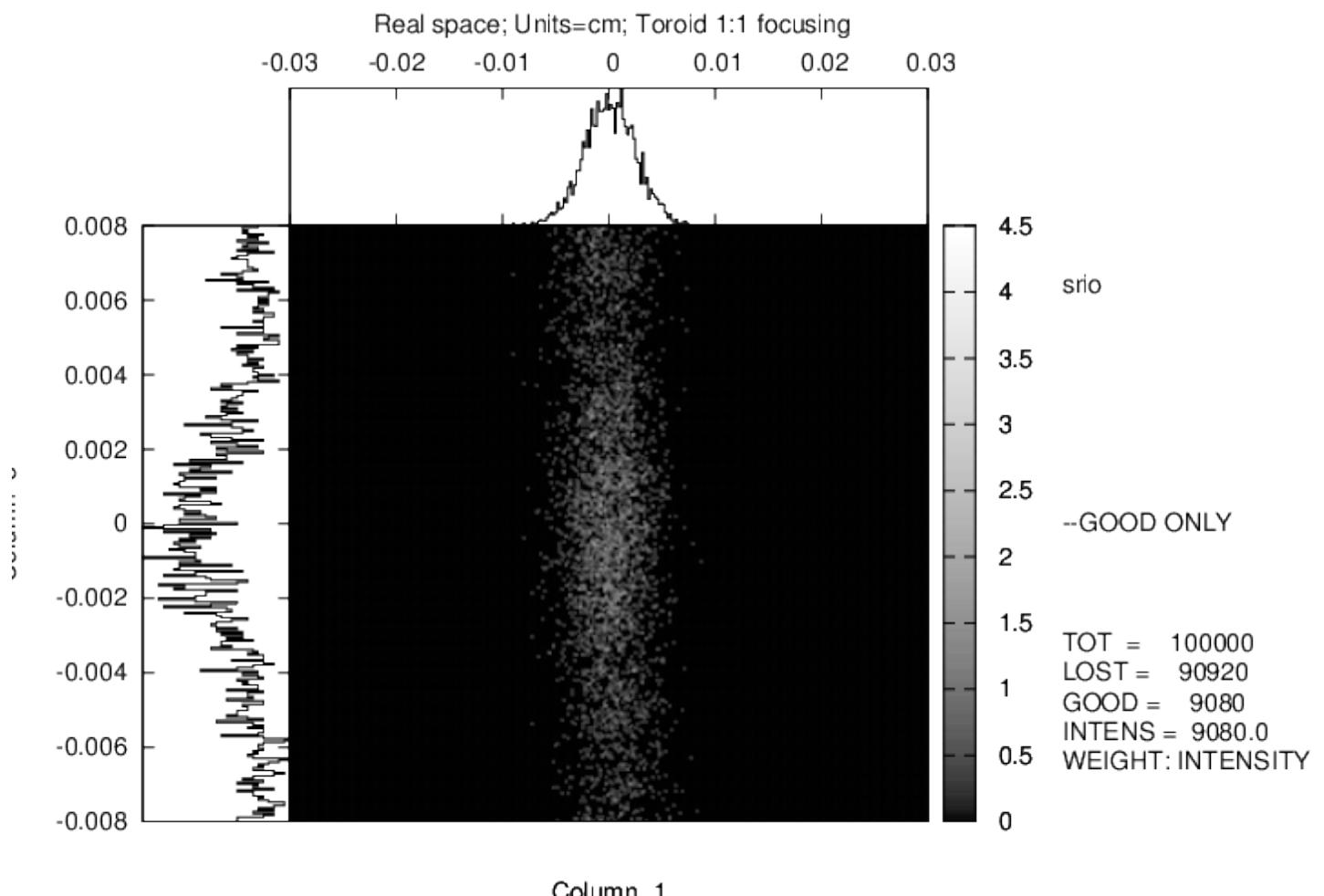
Column 1

0.8.2.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 158.937 um

FWHM H: 55.814 um V: 118.538 um

FW75M H: 29.900 um V: 38.272 um

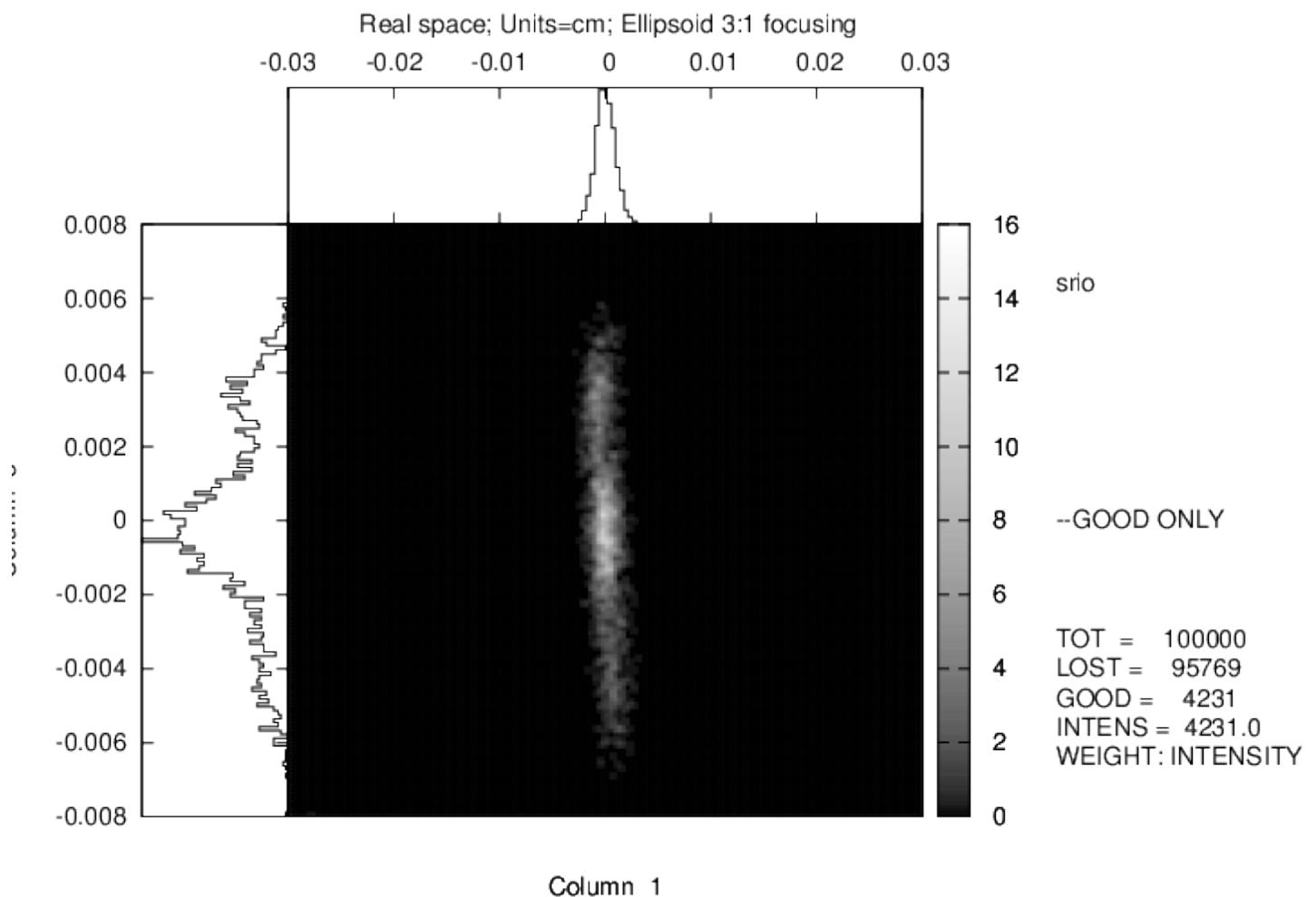


0.8.2.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 70.993 um

FWHM H: 15.894 um V: 22.252 um

FW75M H: 7.947 um V: 7.417 um



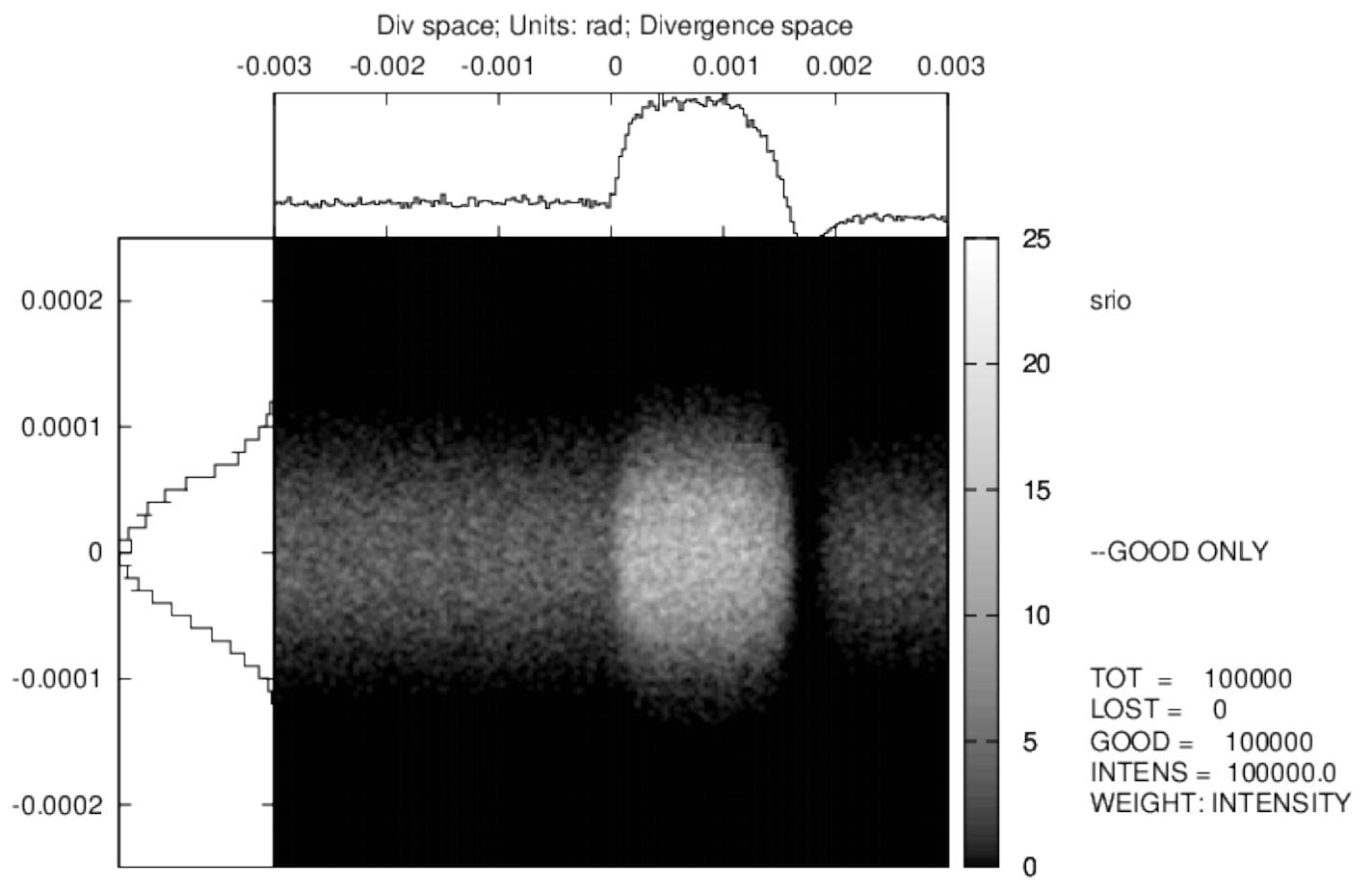
Column 1

0.8.3. Finite Emittance; magnetic field: 2PB; E=20 keV

0.8.3.1. Divergence space

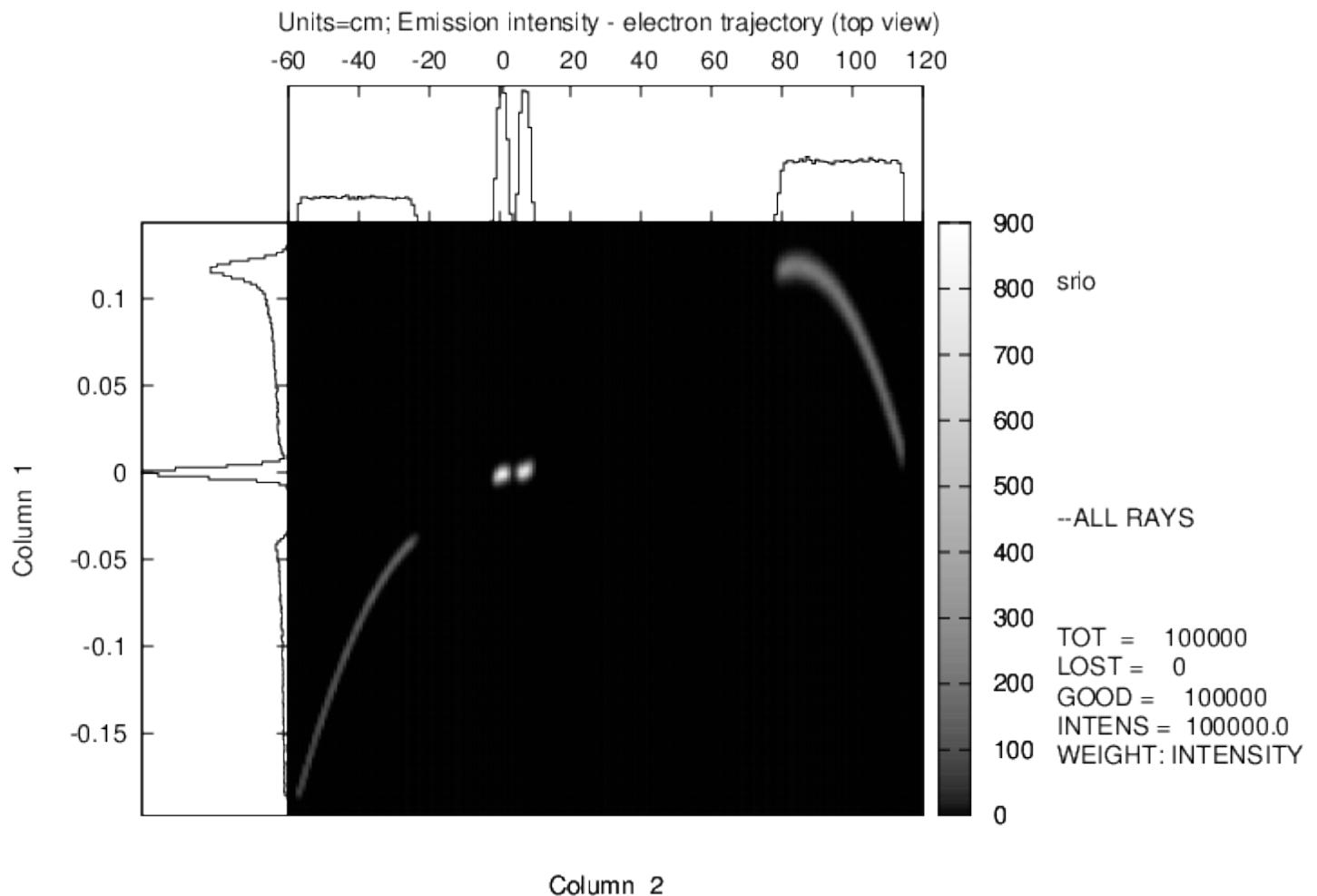
```

FW25M H: 4447.761 urad V: 151.741 urad
FWHM H: 1373.134 urad V: 114.428 urad
FW75M H: 1104.478 urad V: 74.627 urad
  
```



Column 4

0.8.3.2. Emission intensity - electron trajectory (top view)

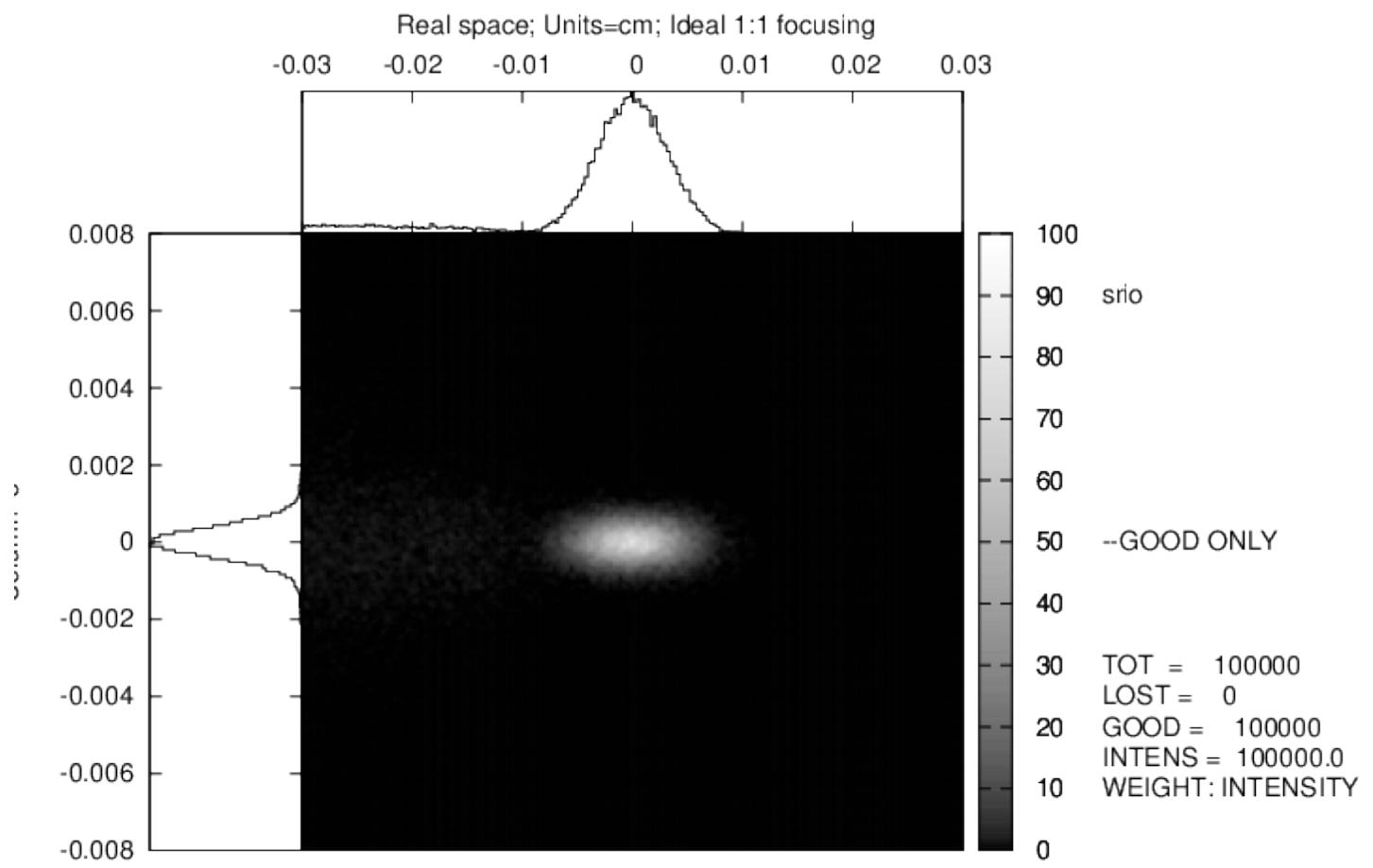


0.8.3.3. Ideal 1:1 focusing

FW25M H: 101.493 um V: 12.736 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 44.776 um V: 4.776 um



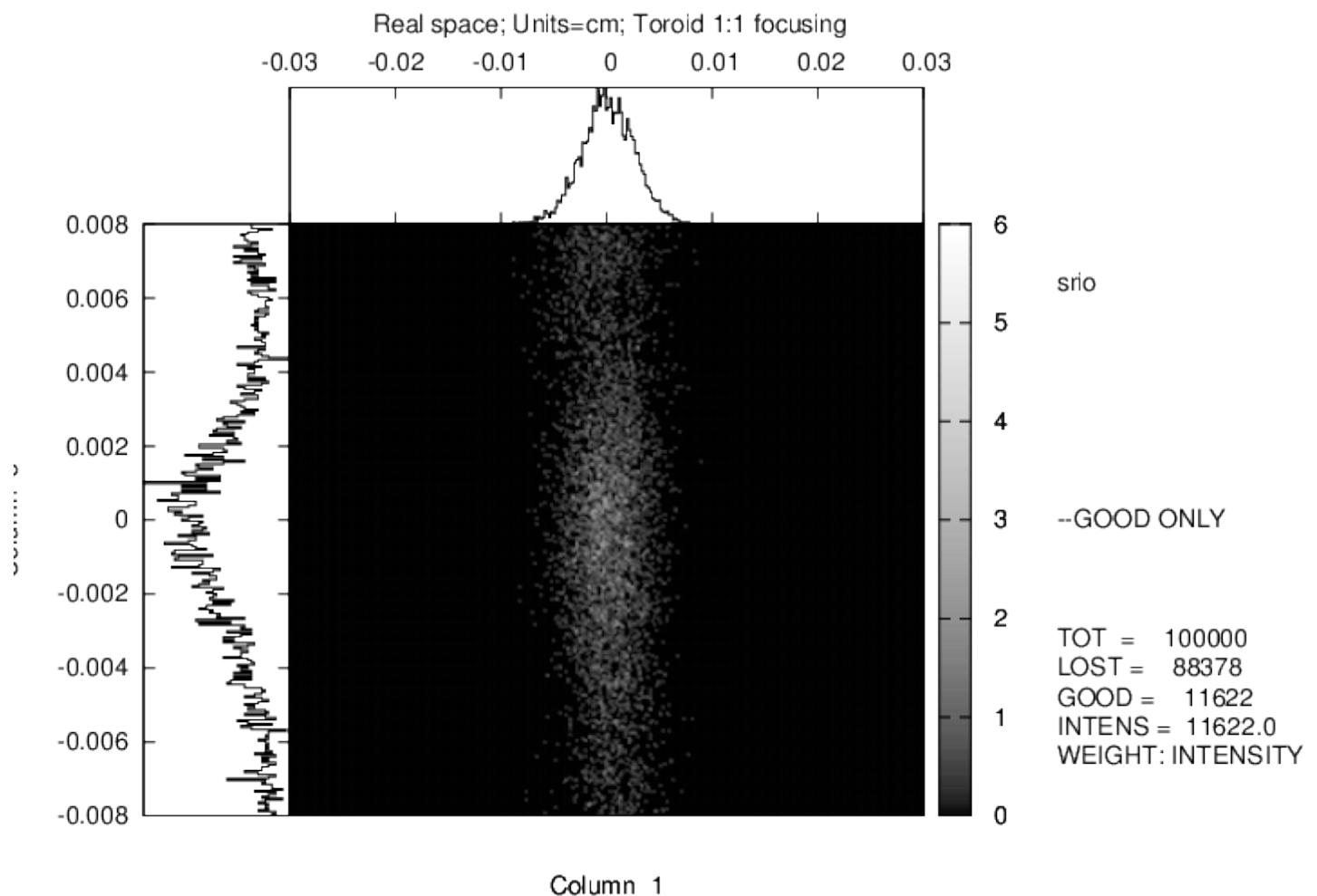
Column 1

0.8.3.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 153.090 um

FWHM H: 51.827 um V: 55.282 um

FW75M H: 31.894 um V: 22.857 um



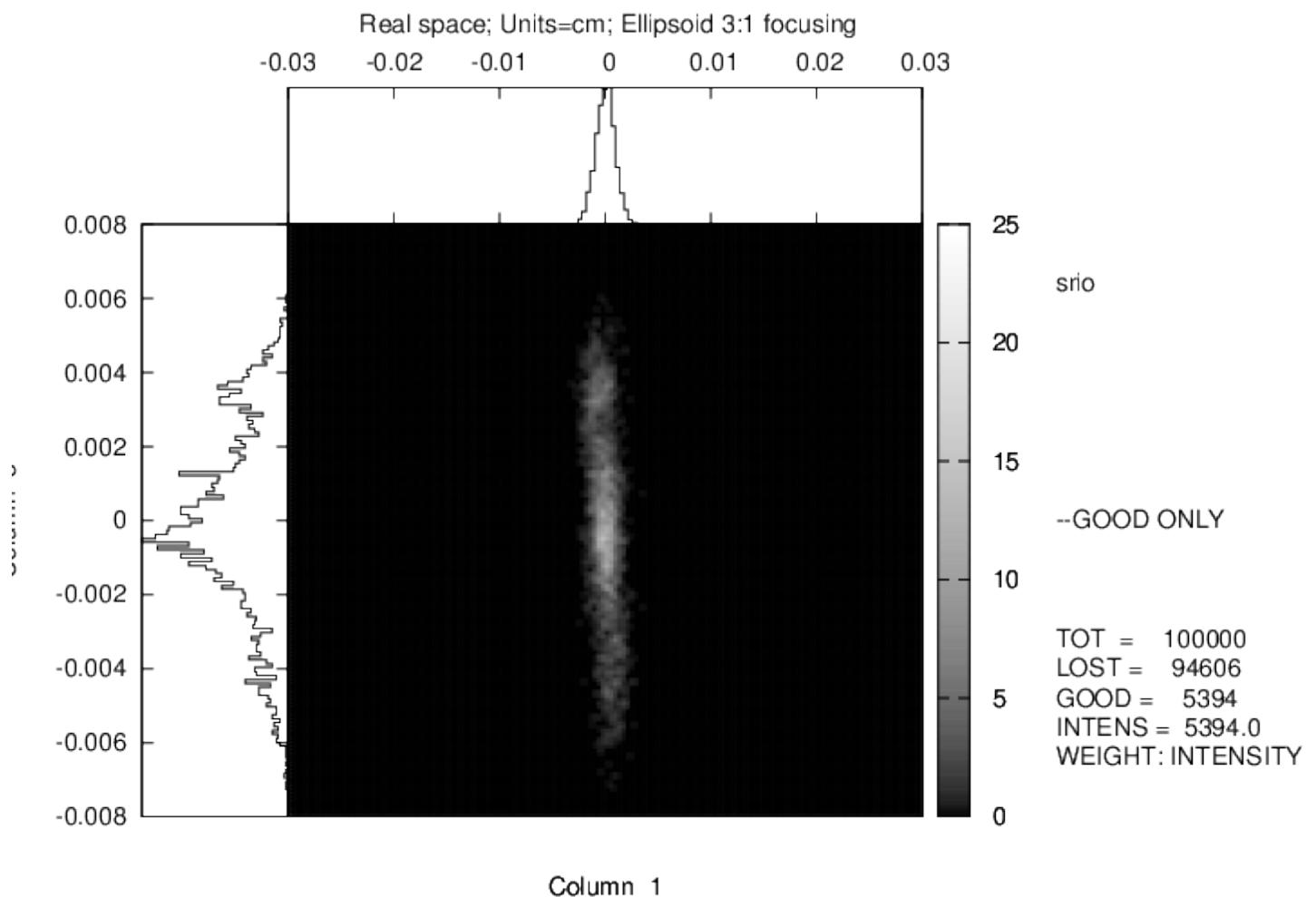
Column 1

0.8.3.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 84.768 um

FWHM H: 15.894 um V: 28.609 um

FW75M H: 7.947 um V: 5.298 um

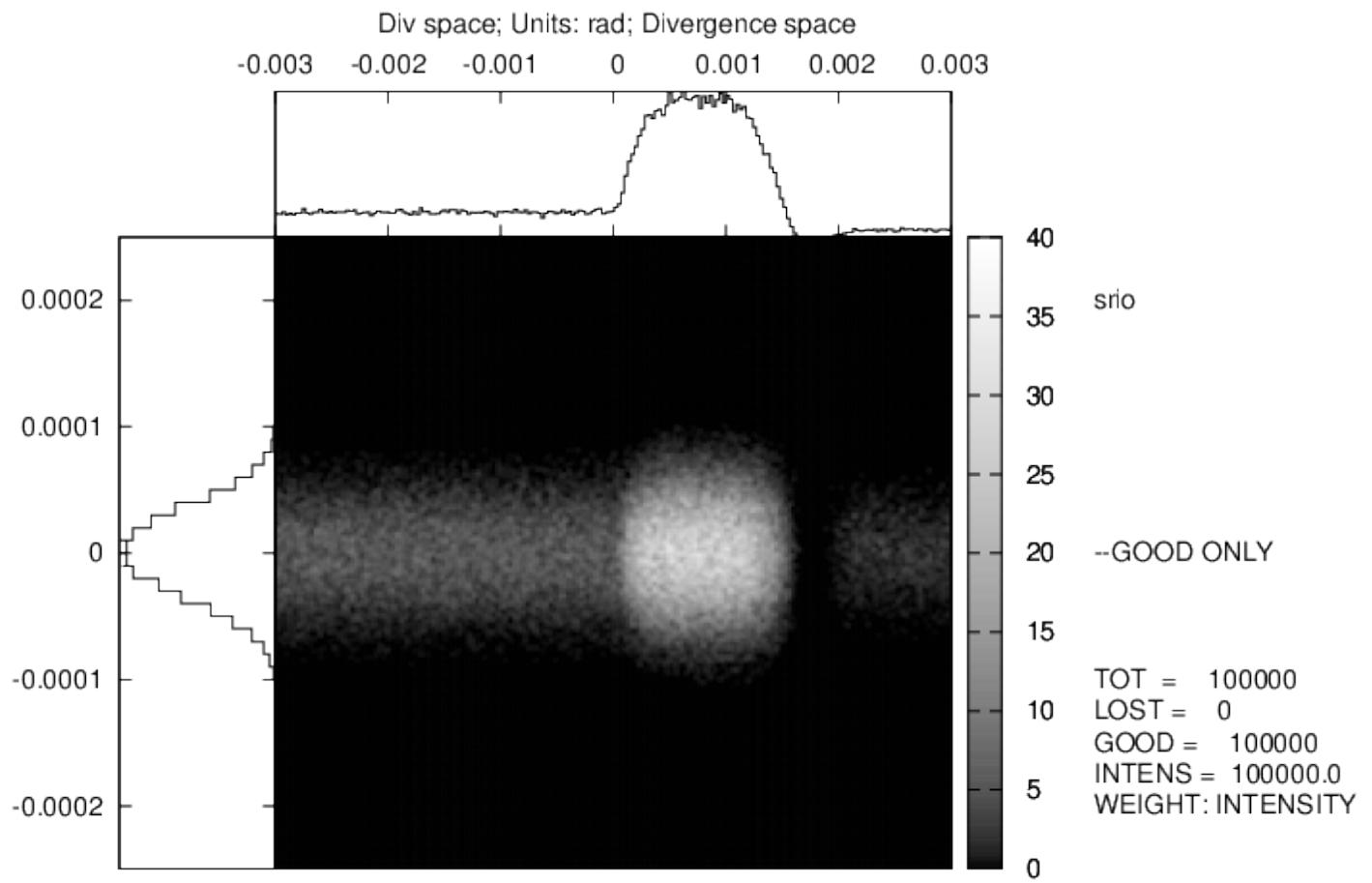


0.8.4. Finite Emittance; magnetic field: 2PB; E=40 keV

0.8.4.1. Divergence space

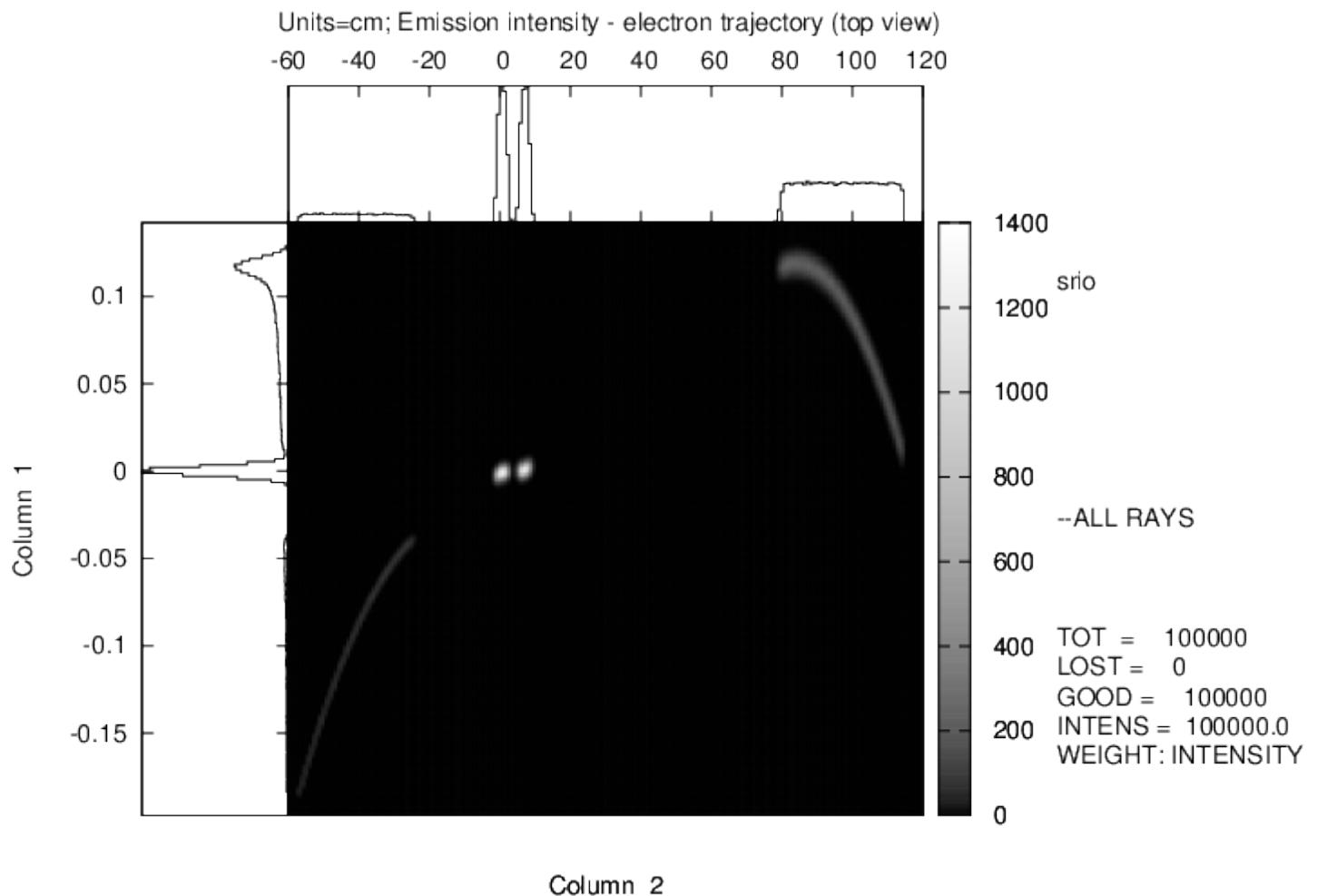
```

FW25M H: 1402.985 urad V: 111.940 urad
FWHM H: 1223.881 urad V: 82.090 urad
FW75M H: 955.224 urad V: 47.264 urad
  
```



Column 4

0.8.4.2. Emission intensity - electron trajectory (top view)

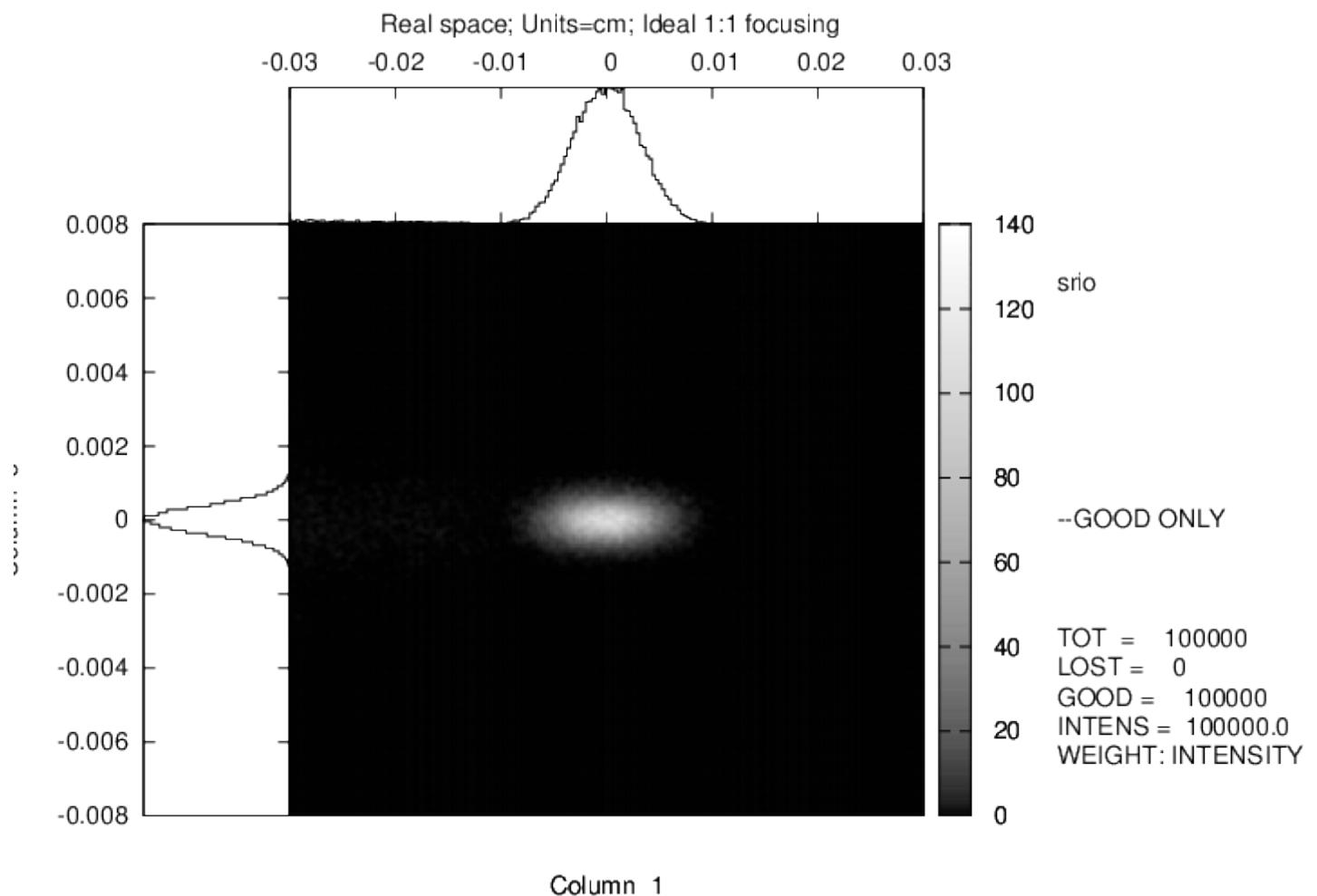


0.8.4.3. Ideal 1:1 focusing

FW25M H: 104.478 um V: 11.940 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 50.746 um V: 4.776 um



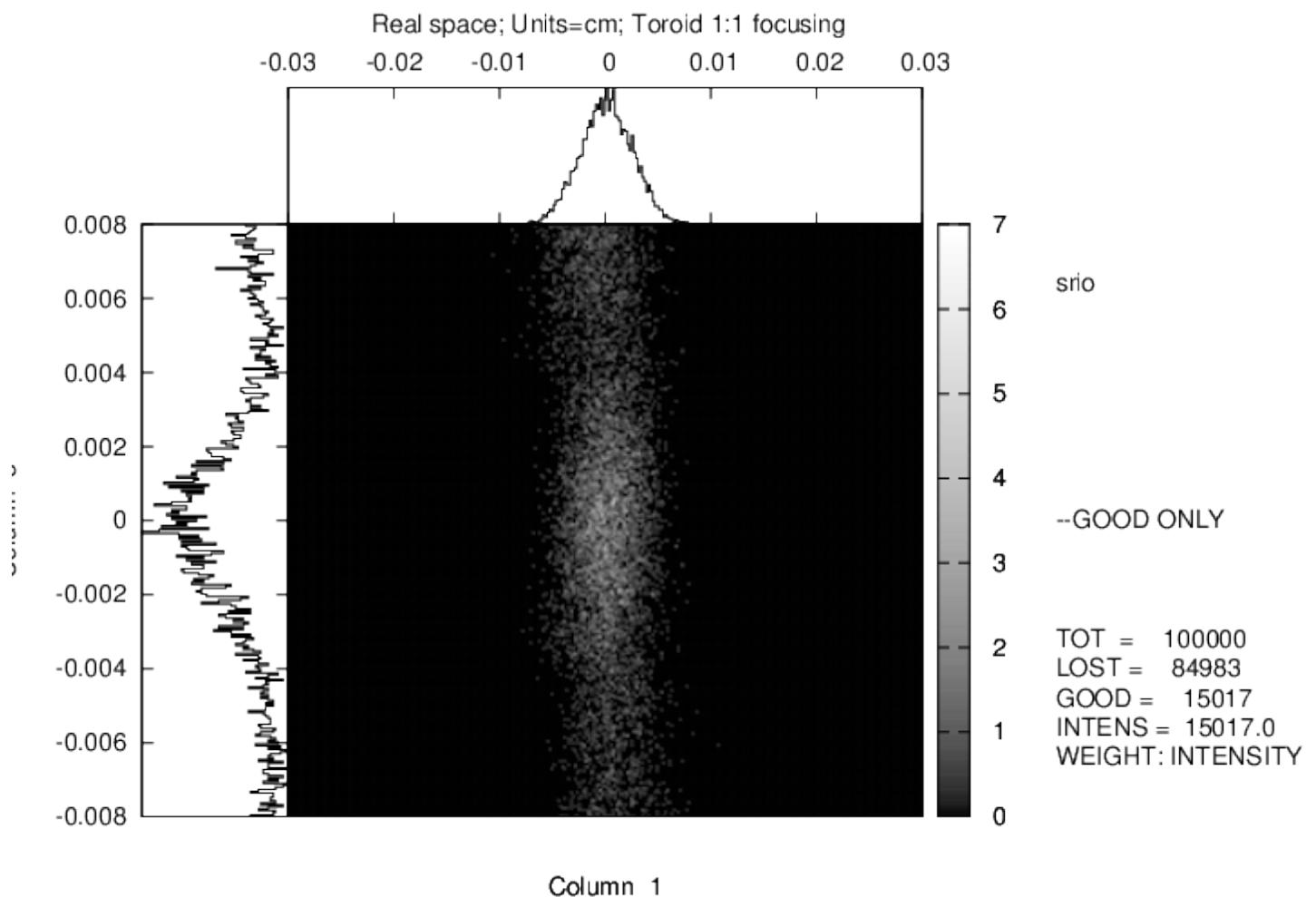
Column 1

0.8.4.4. Toroid 1:1 focusing

FW25M H: 81.728 um V: 159.468 um

FWHM H: 49.834 um V: 97.807 um

FW75M H: 27.907 um V: 21.262 um

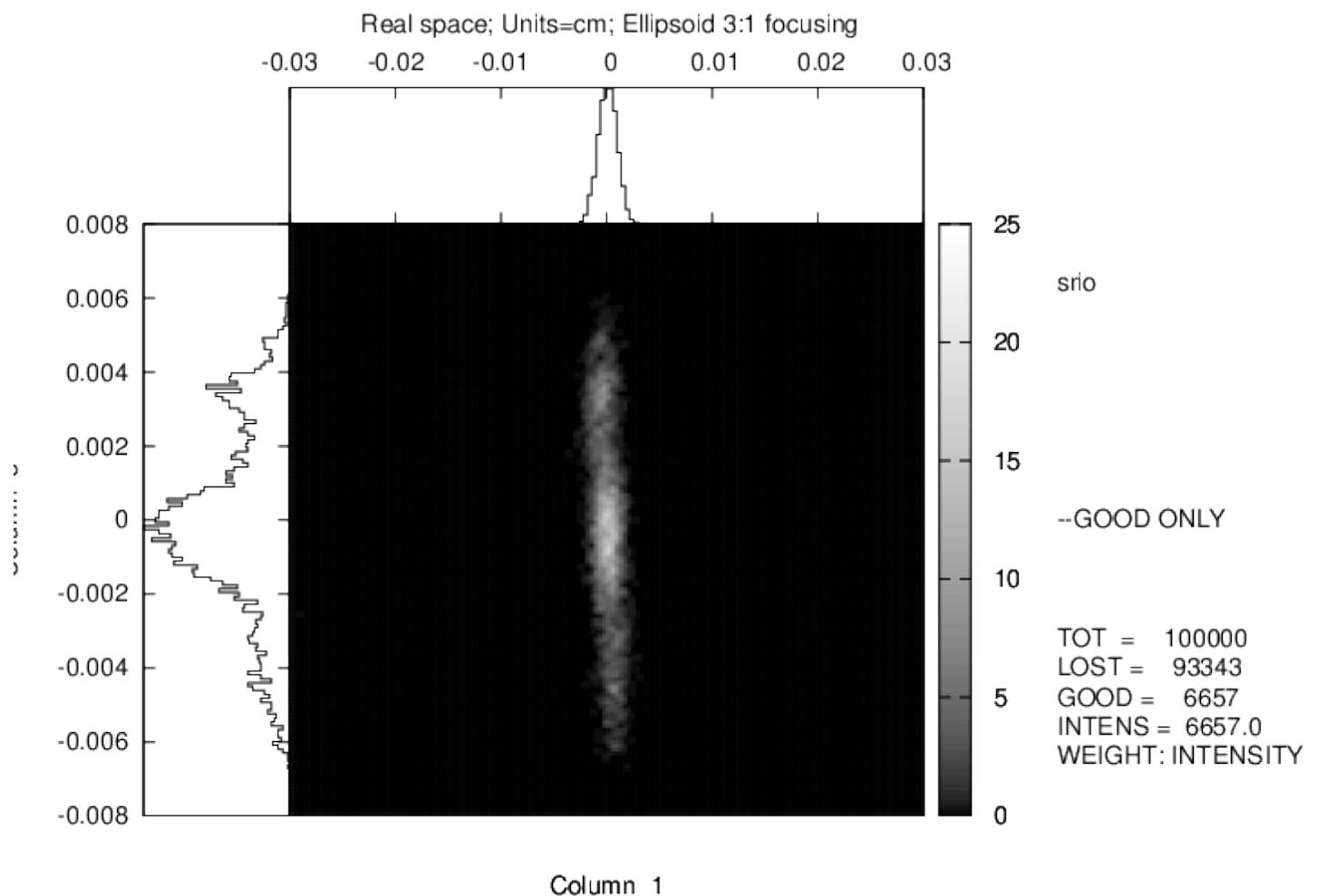


0.8.4.5. Ellipsoid 3:1 focusing

FW25M H: 27.815 um V: 84.768 um

FWHM H: 19.868 um V: 51.921 um

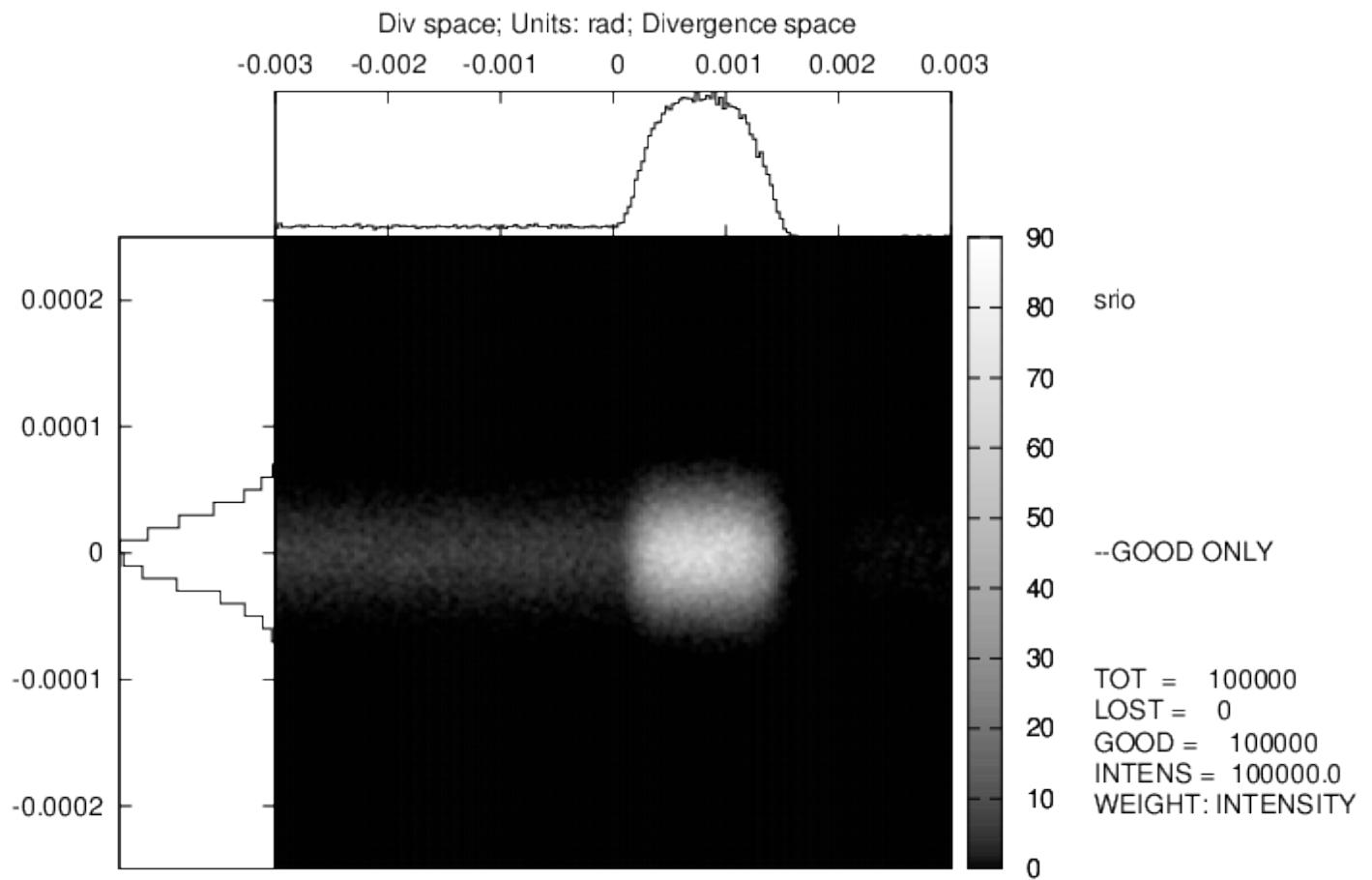
FW75M H: 11.921 um V: 16.954 um



0.8.5. Finite Emittance; magnetic field: 2PB; E=80 keV

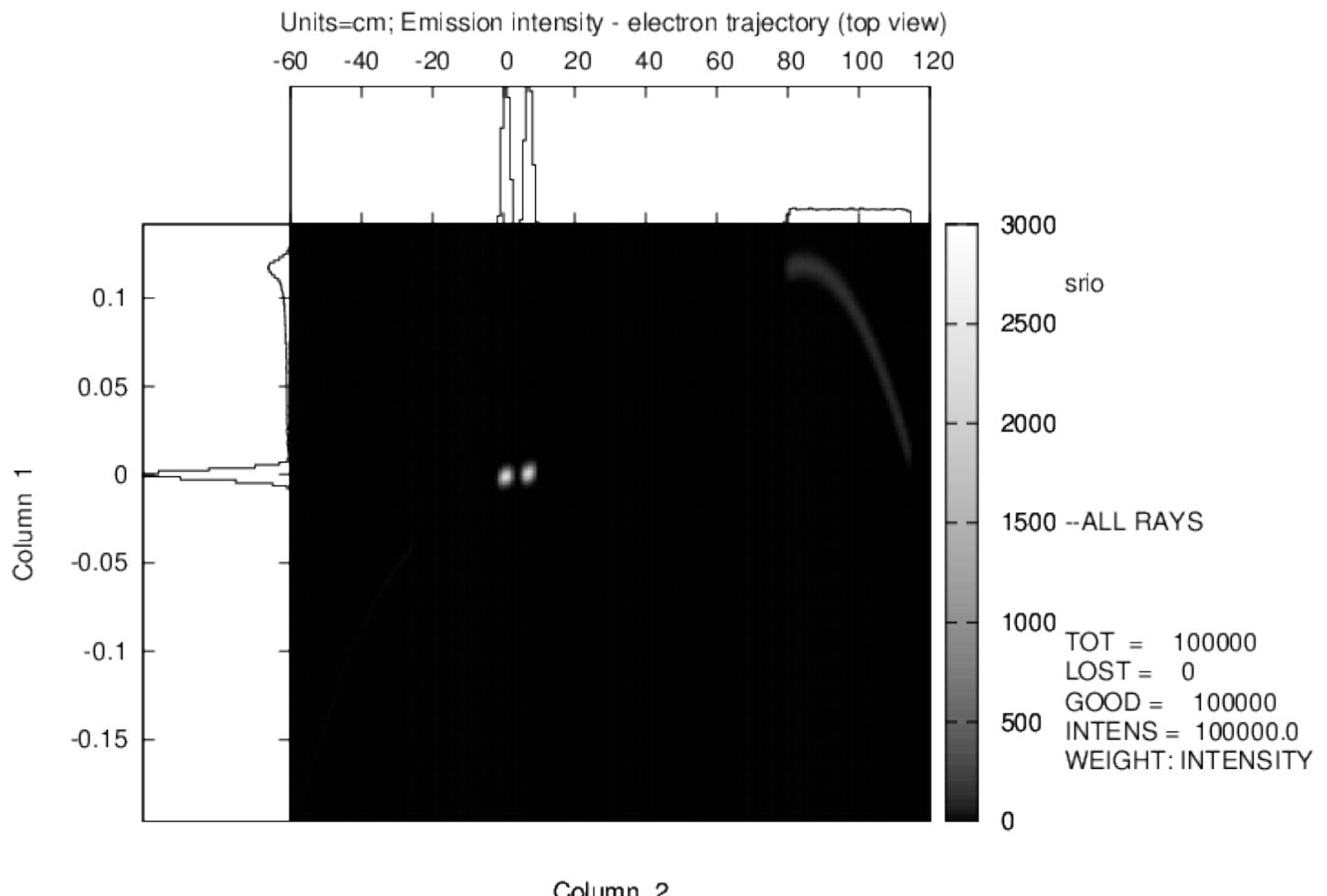
0.8.5.1. Divergence space

FW25M H: 1253.731 urad V: 79.602 urad
 FWHM H: 1044.776 urad V: 57.214 urad
 FW75M H: 805.970 urad V: 32.338 urad



Column 4

0.8.5.2. Emission intensity - electron trajectory (top view)

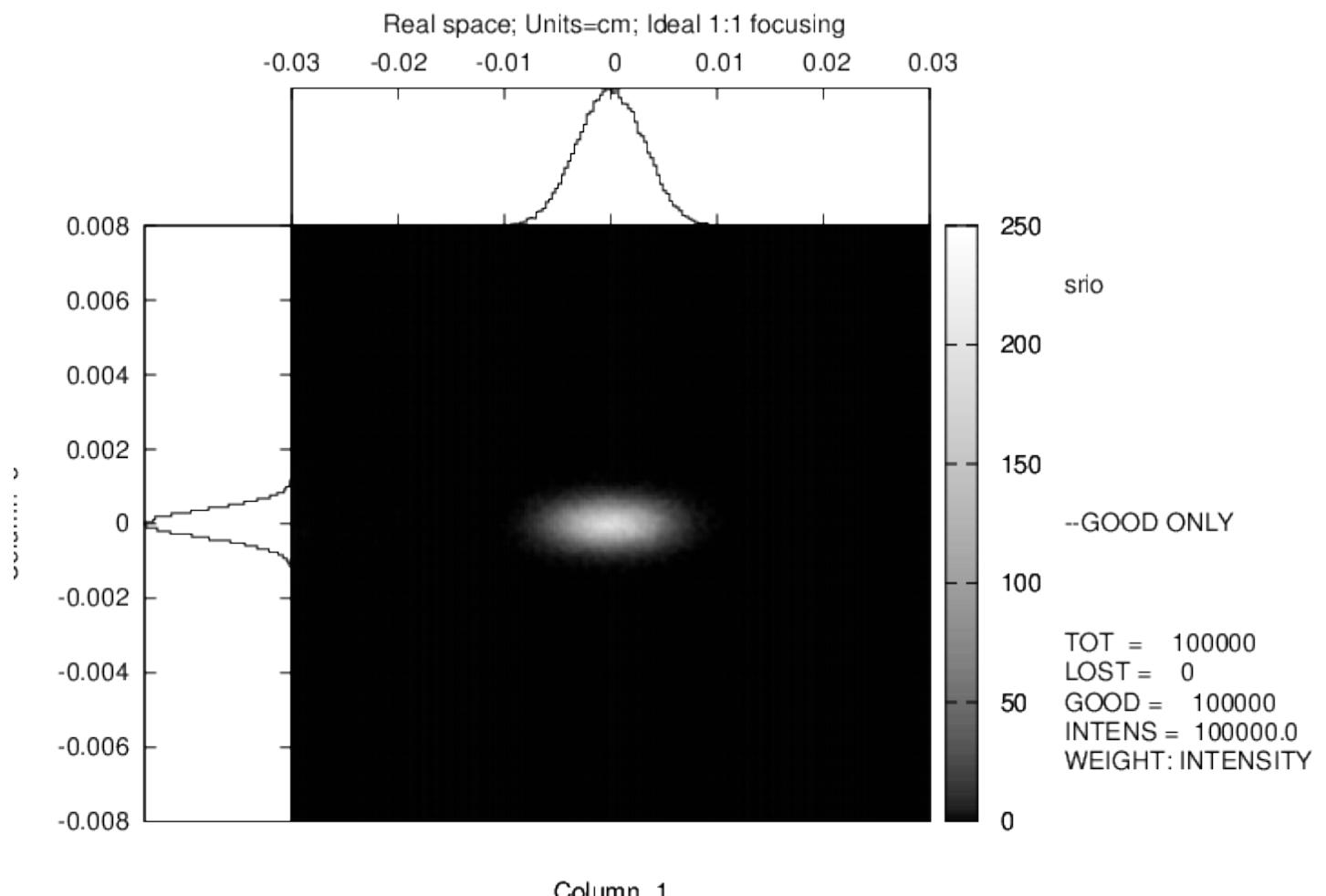


0.8.5.3. Ideal 1:1 focusing

FW25M H: 101.493 um V: 11.144 um

FWHM H: 71.642 um V: 7.960 um

FW75M H: 44.776 um V: 4.776 um

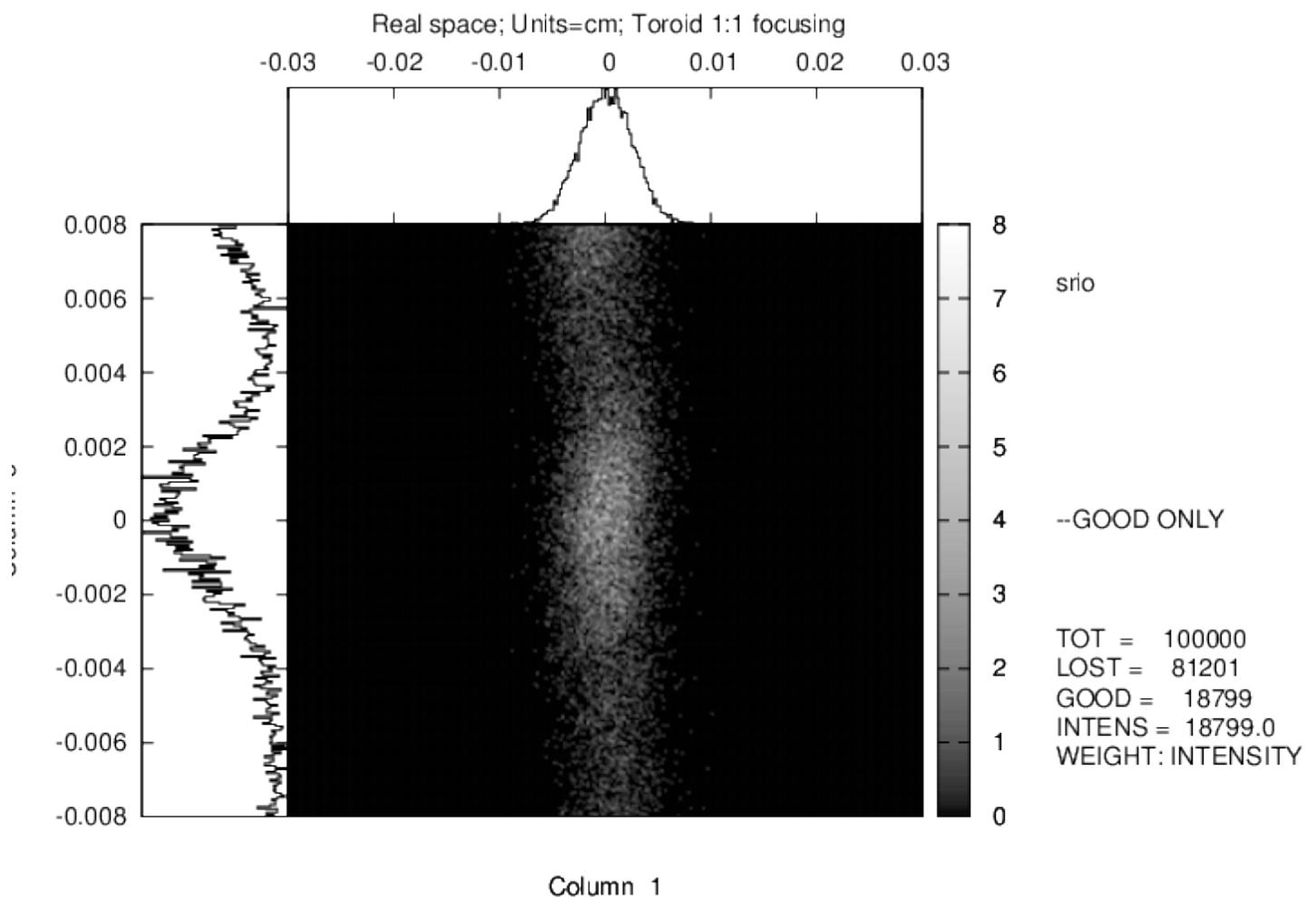


0.8.5.4. Toroid 1:1 focusing

FW25M H: 83.721 um V: 157.342 um

FWHM H: 57.807 um V: 103.654 um

FW75M H: 35.880 um V: 29.236 um

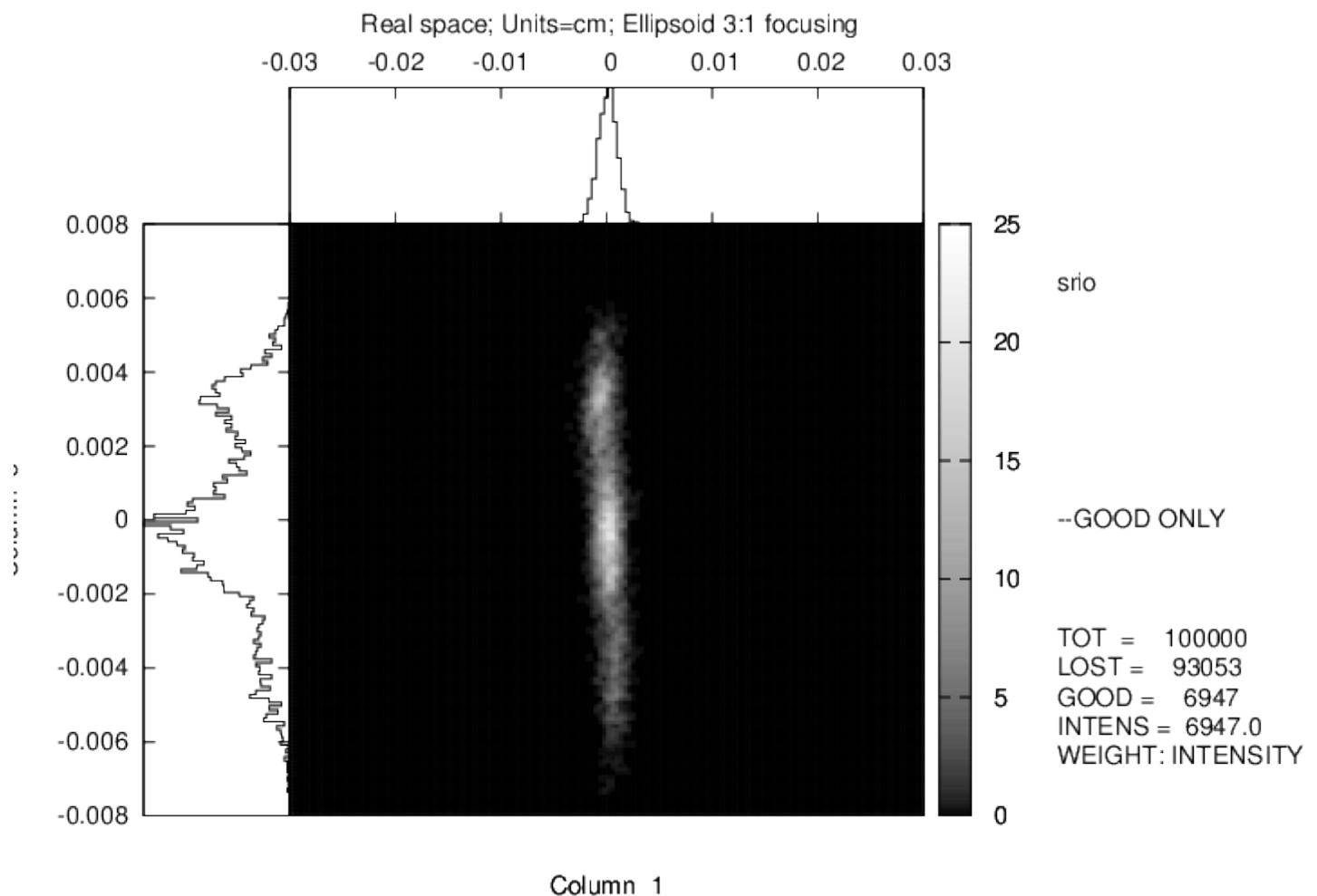


0.8.5.5. Ellipsoid 3:1 focusing

FW25M H: 27.815 um V: 89.007 um

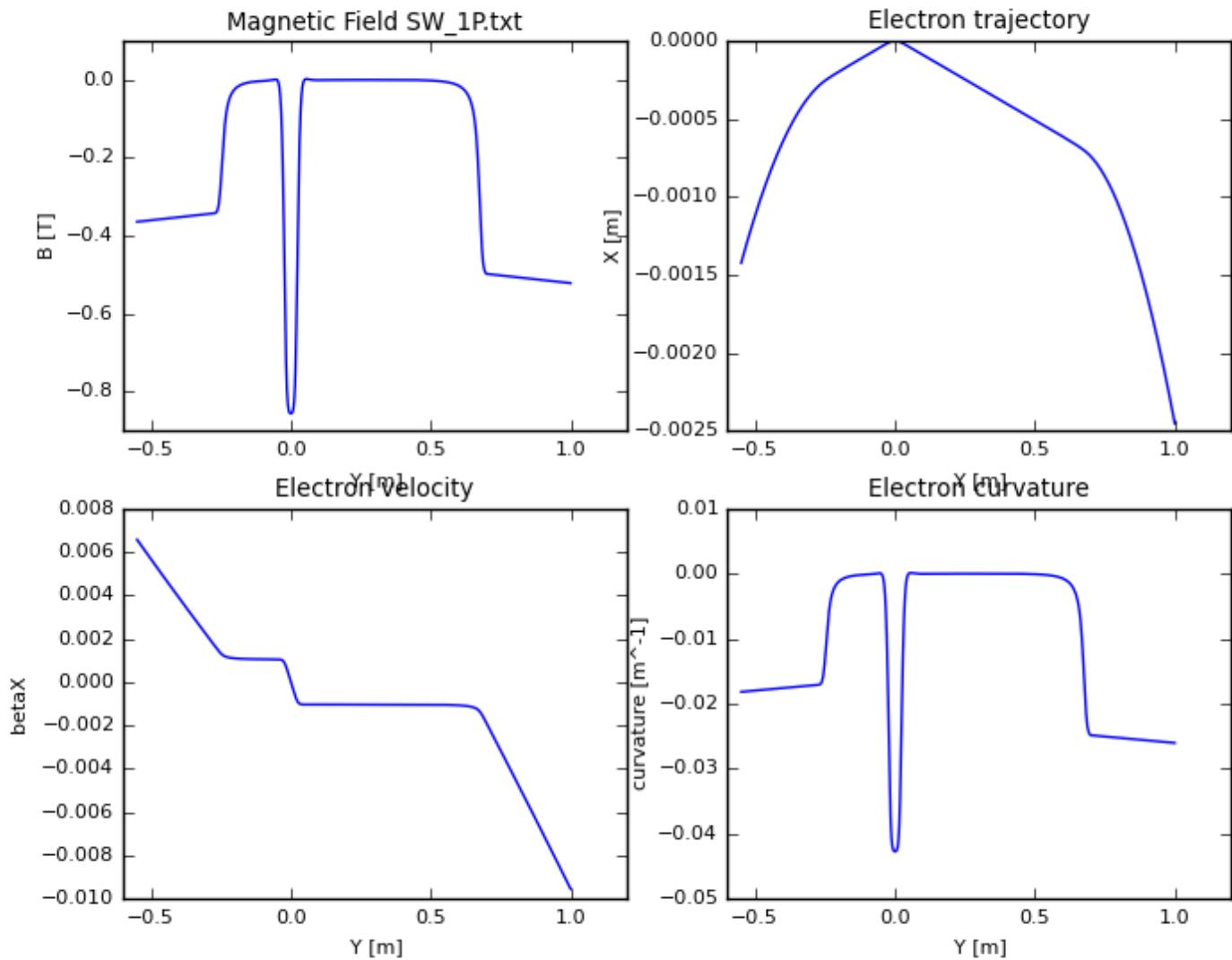
FWHM H: 15.894 um V: 52.980 um

FW75M H: 7.947 um V: 7.417 um



Column 1

0.9. Finite Emittance; magnetic field: 1P



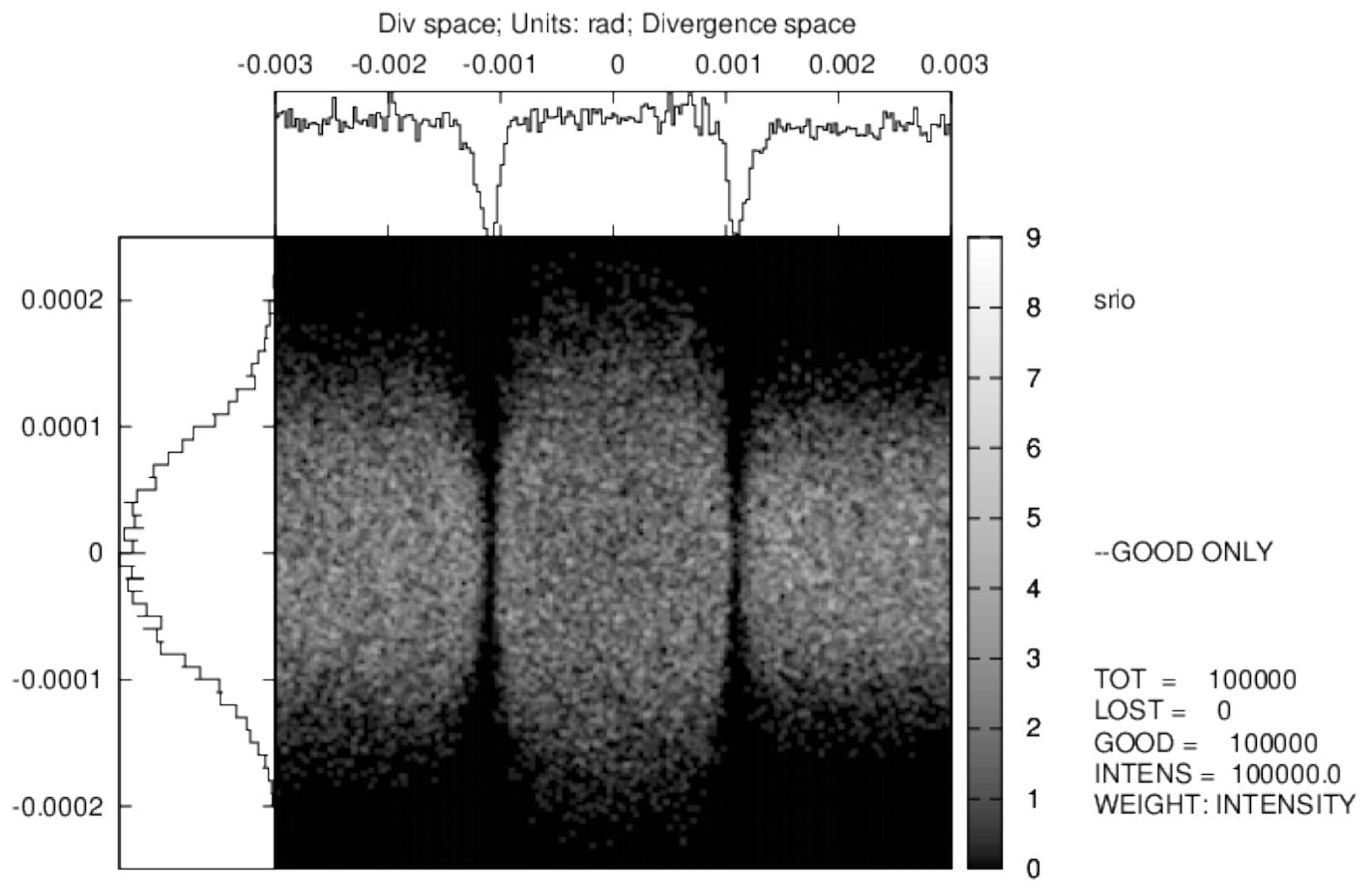
0.9.1. Finite Emittance; magnetic field: 1P; E=5 keV

0.9.1.1. Divergence space

FW25M H: 5970.149 urad V: 253.731 urad

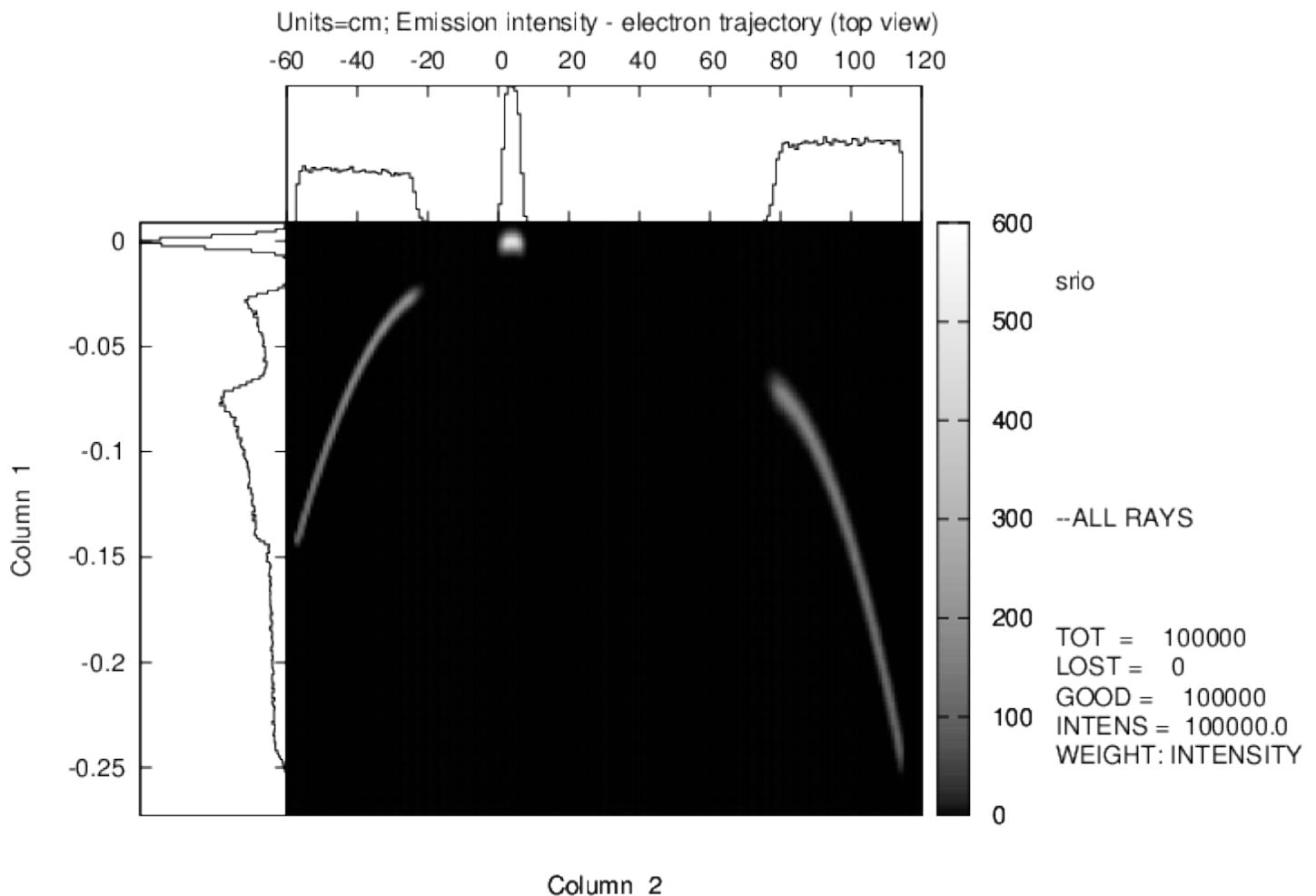
FWHM H: 5970.149 urad V: 191.542 urad

FW75M H: 5970.149 urad V: 134.328 urad



Column 4

0.9.1.2. Emission intensity - electron trajectory (top view)

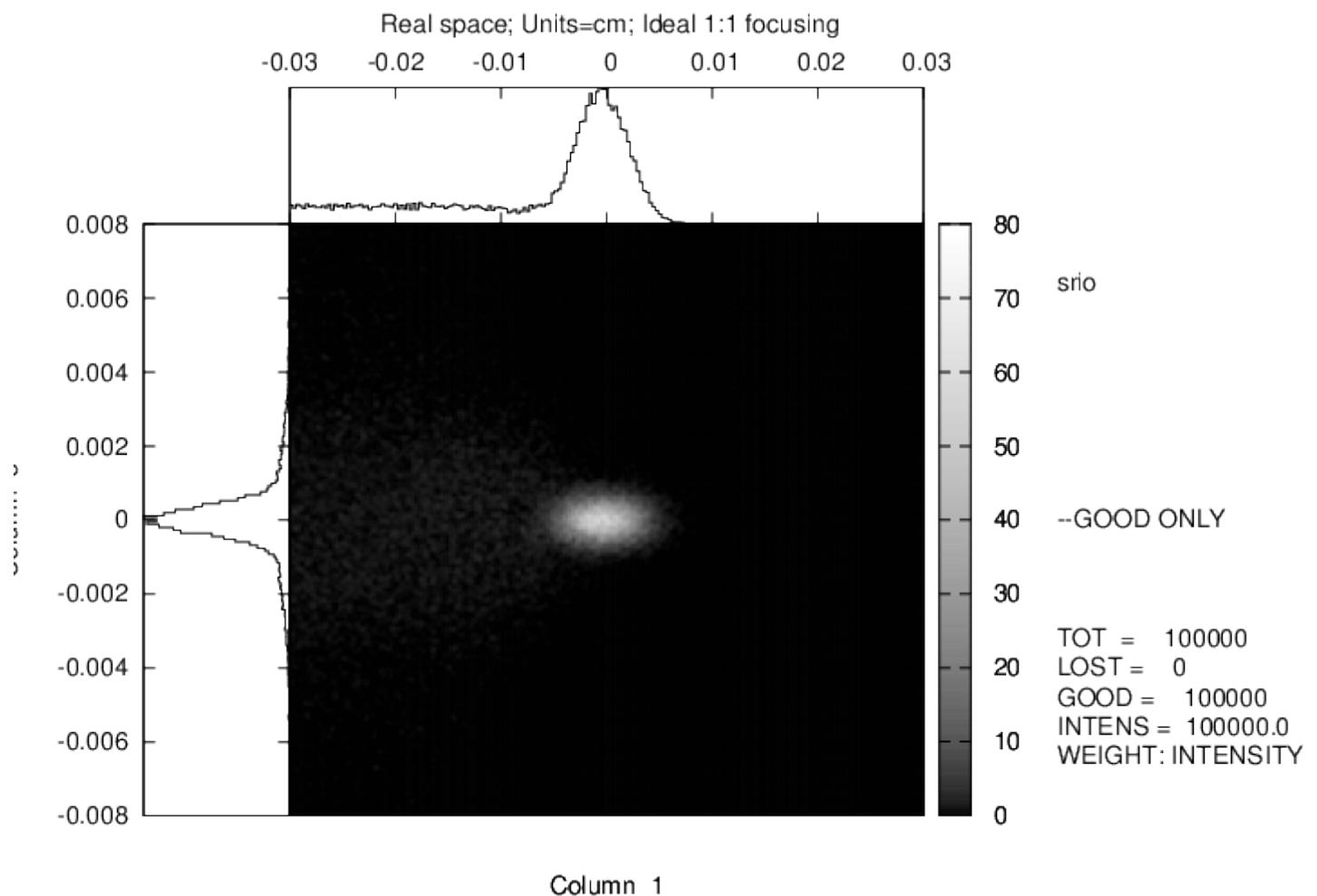


0.9.1.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 12.736 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um

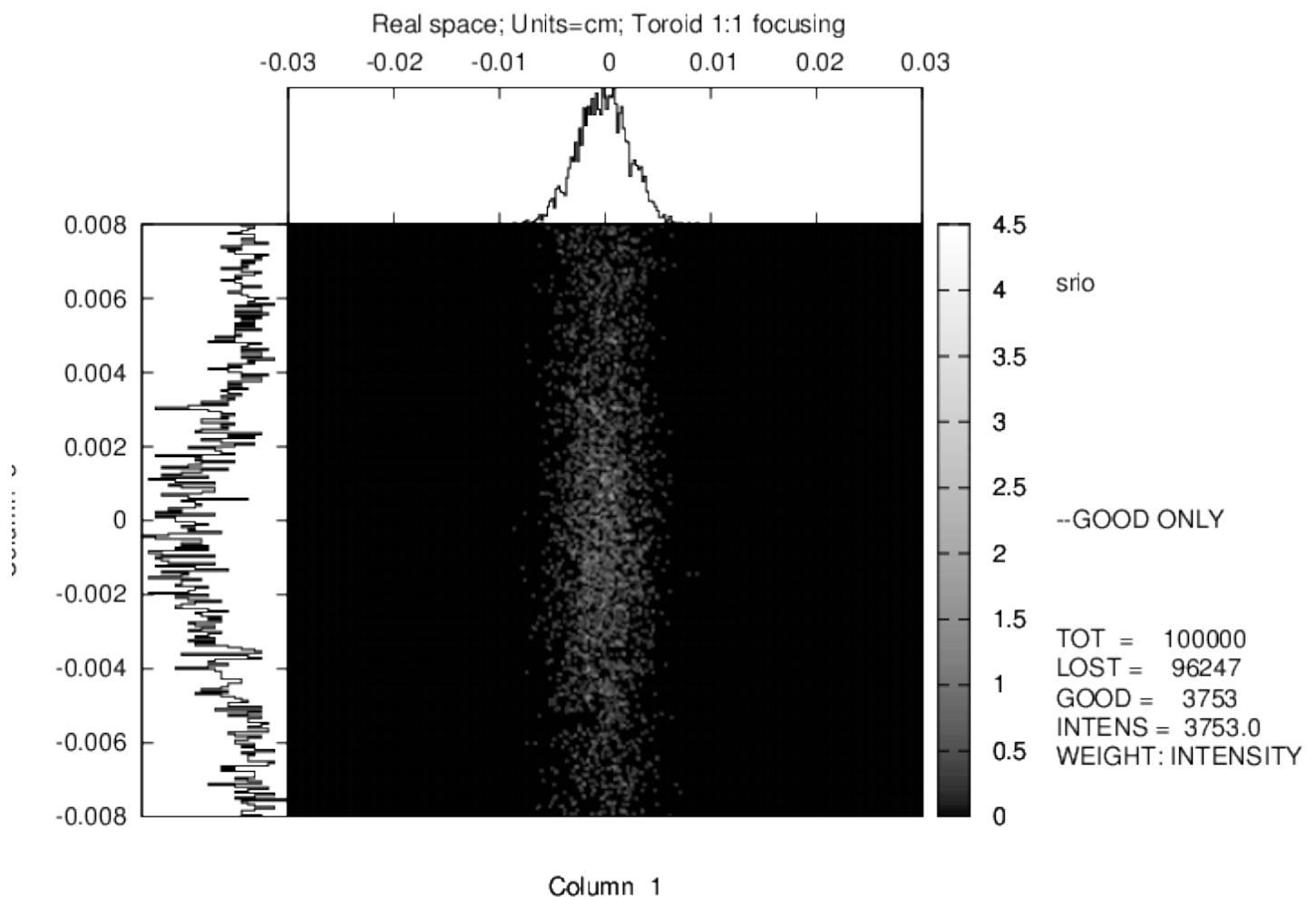


0.9.1.4. Toroid 1:1 focusing

FW25M H: 83.721 um V: 158.937 um

FWHM H: 49.834 um V: 120.664 um

FW75M H: 35.880 um V: 70.166 um

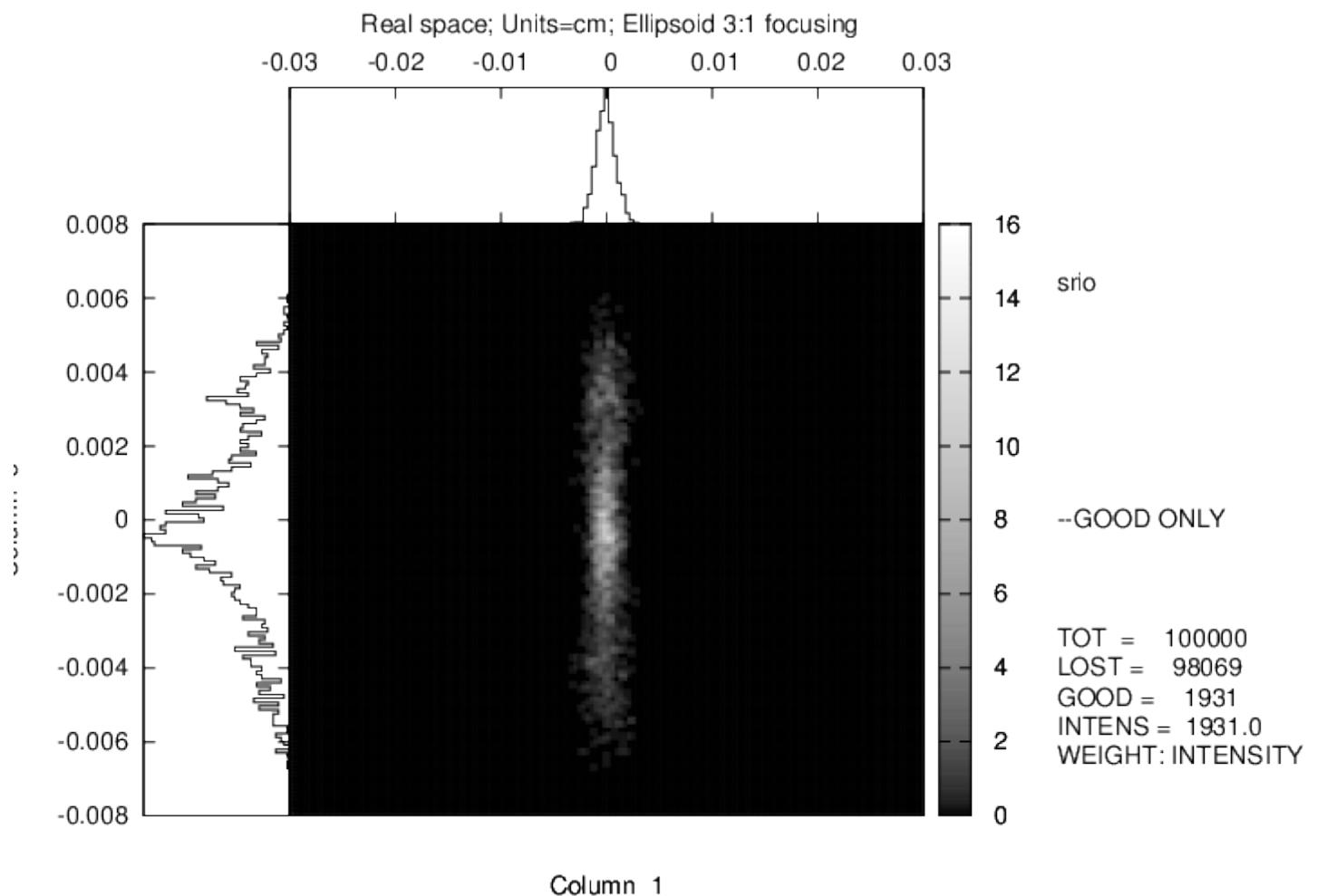


0.9.1.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 77.351 um

FWHM H: 11.921 um V: 46.623 um

FW75M H: 3.974 um V: 8.477 um



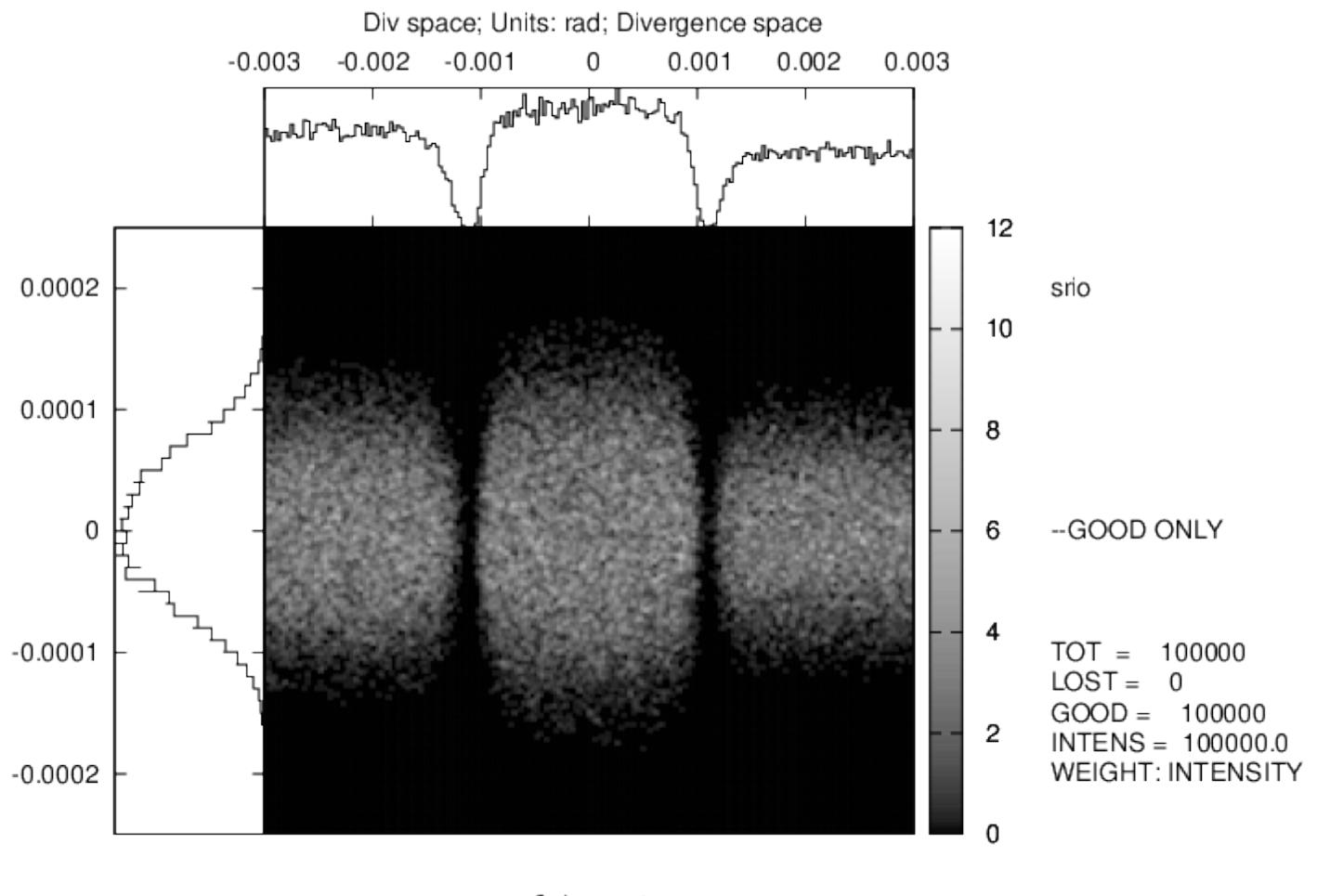
0.9.2. Finite Emittance; magnetic field: 1P; E=10 keV

0.9.2.1. Divergence space

```

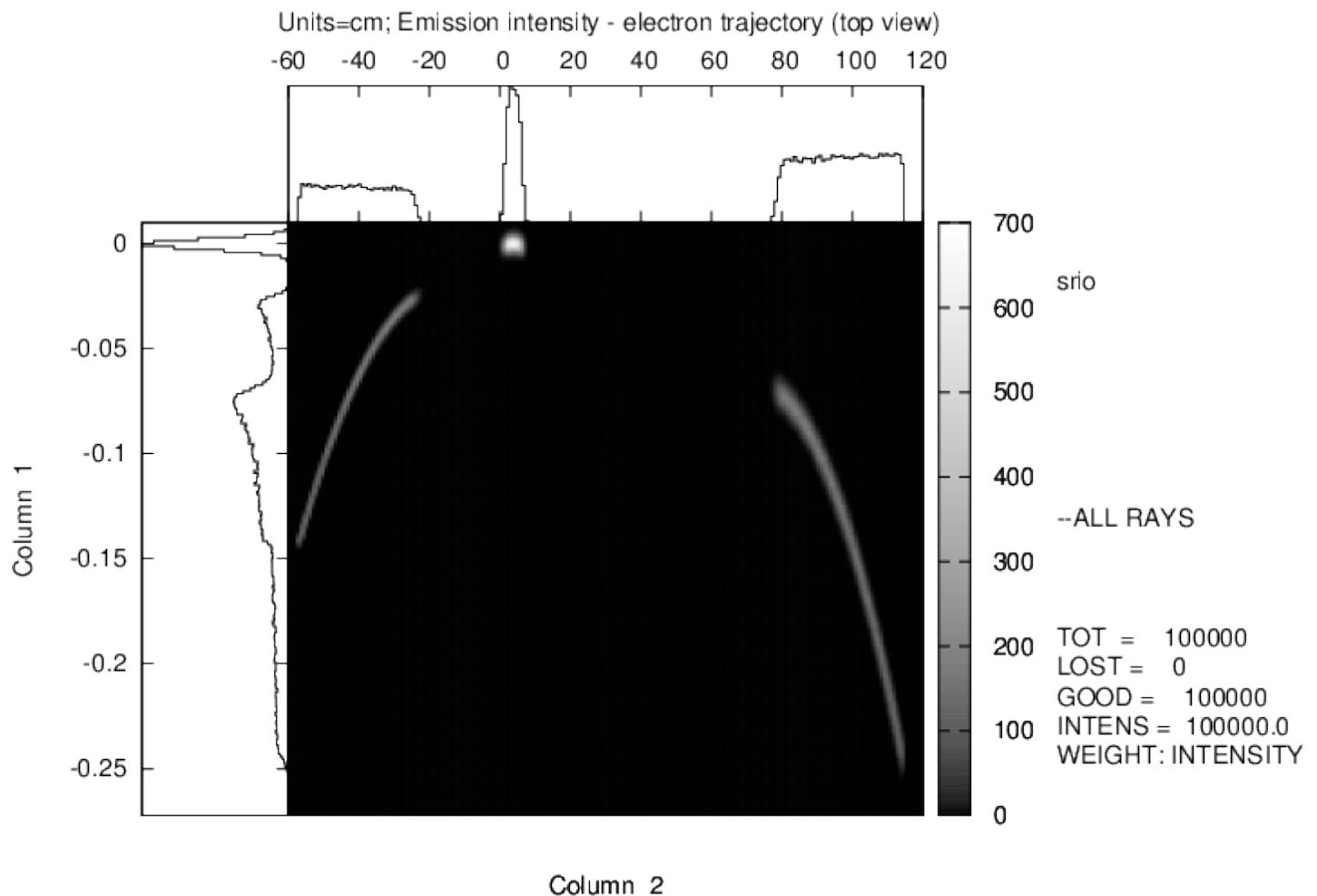
FW25M H: 5970.149 urad V: 196.517 urad
FWHM H: 5970.149 urad V: 146.766 urad
FW75M H: 3462.687 urad V: 97.015 urad

```



Column 4

0.9.2.2. Emission intensity - electron trajectory (top view)



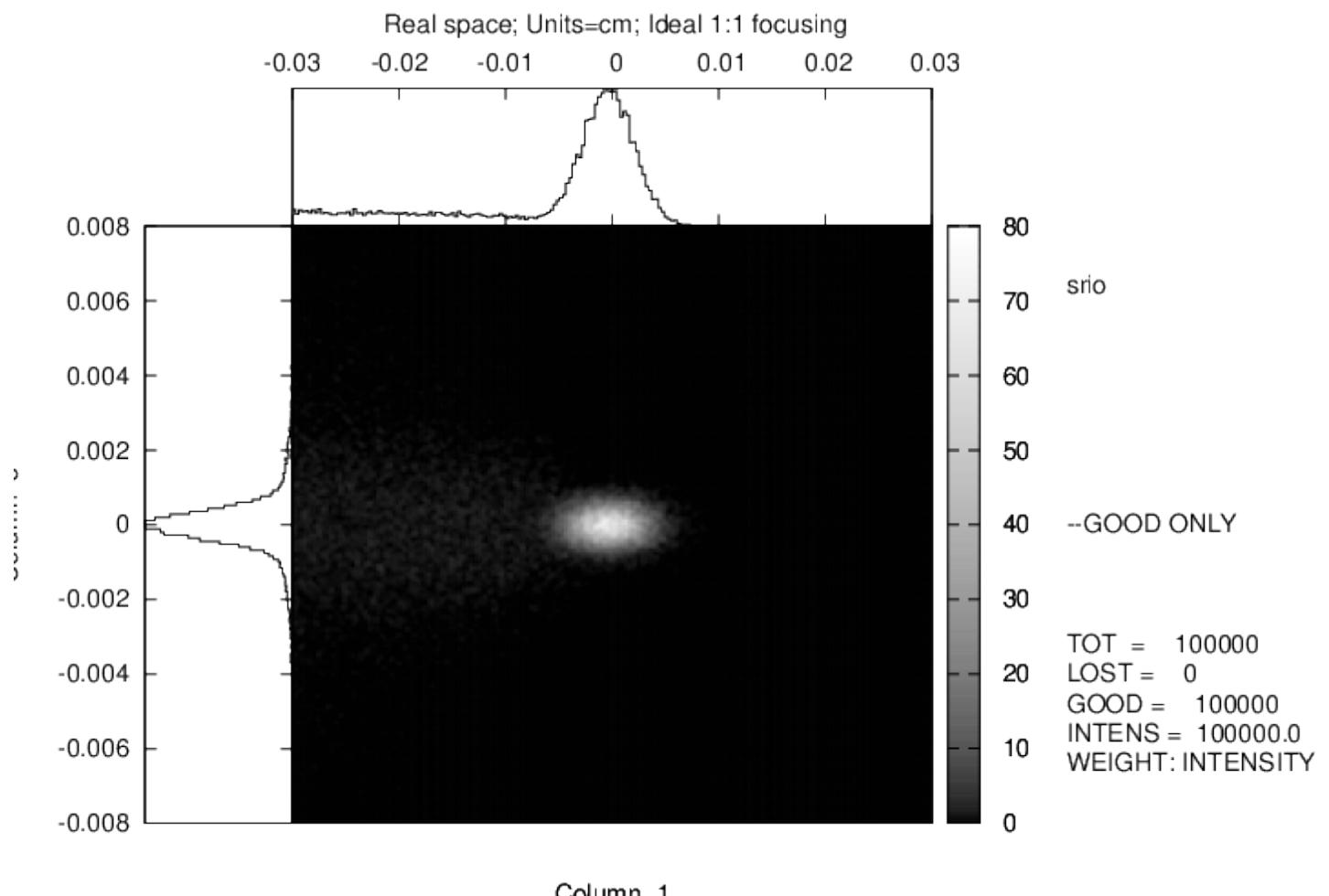
Column 2

0.9.2.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 12.736 um

FWHM H: 56.716 um V: 7.960 um

FW75M H: 38.806 um V: 4.776 um

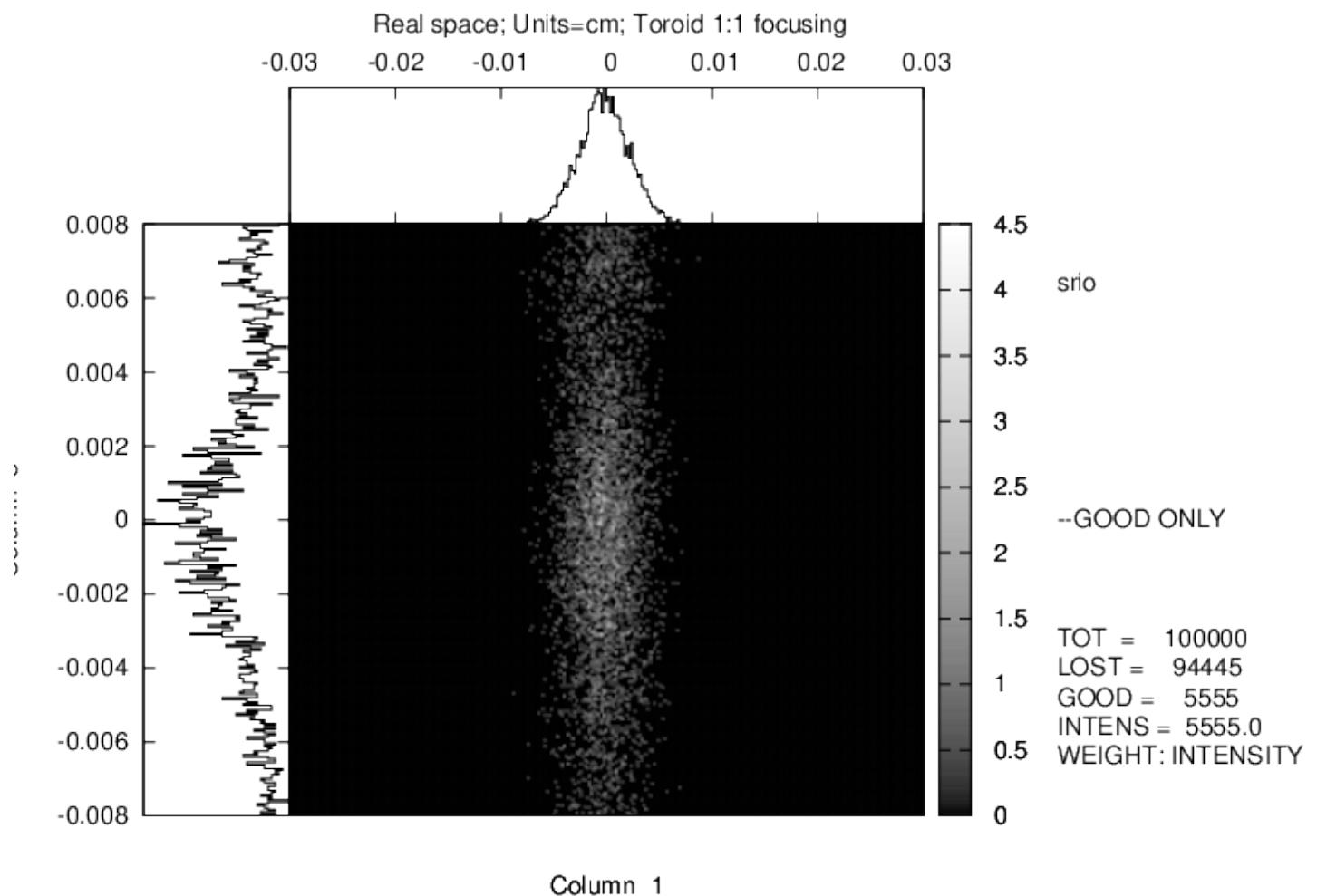


0.9.2.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 145.116 um

FWHM H: 51.827 um V: 100.465 um

FW75M H: 27.907 um V: 29.767 um

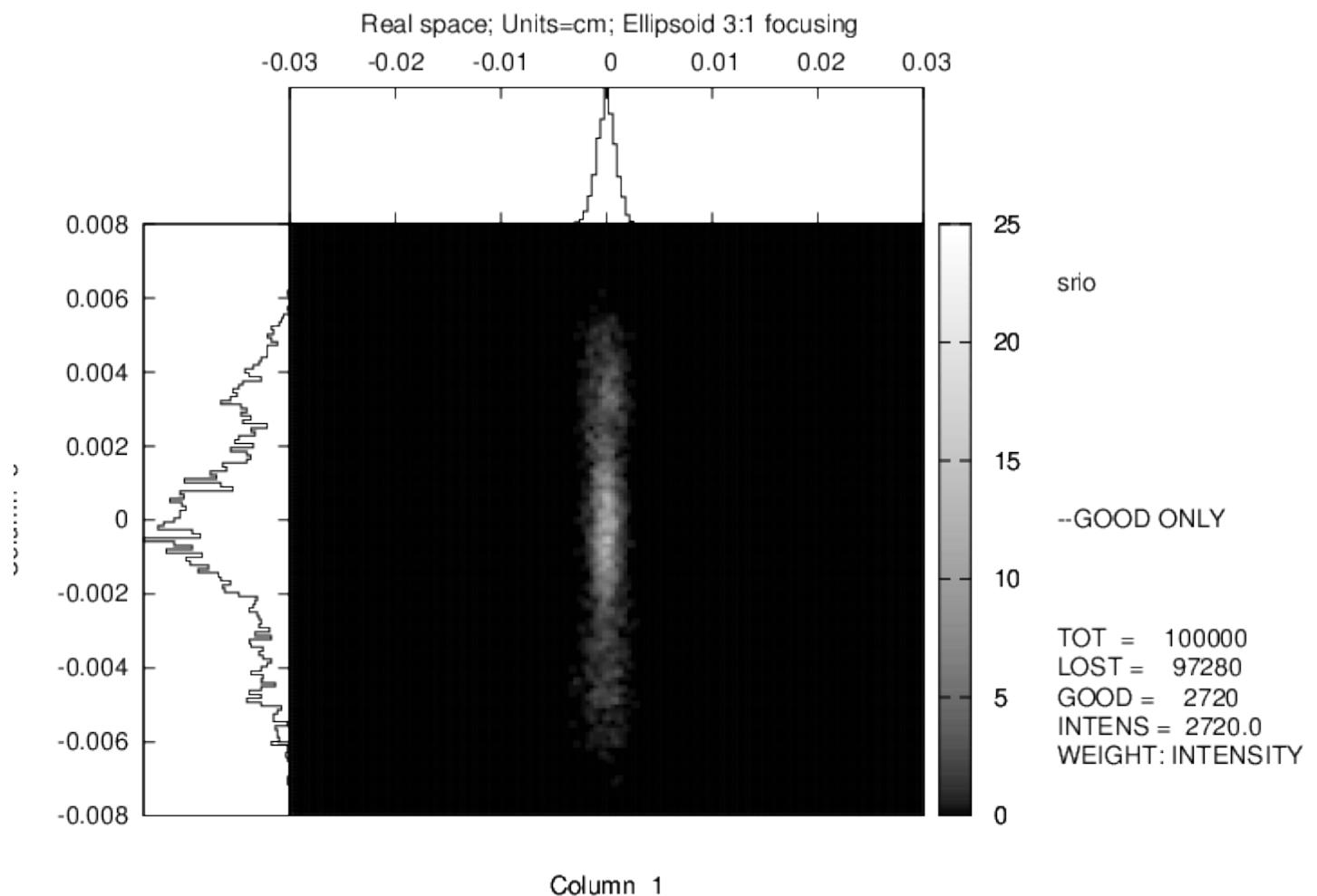


0.9.2.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 90.066 um

FWHM H: 15.894 um V: 26.490 um

FW75M H: 7.947 um V: 15.894 um

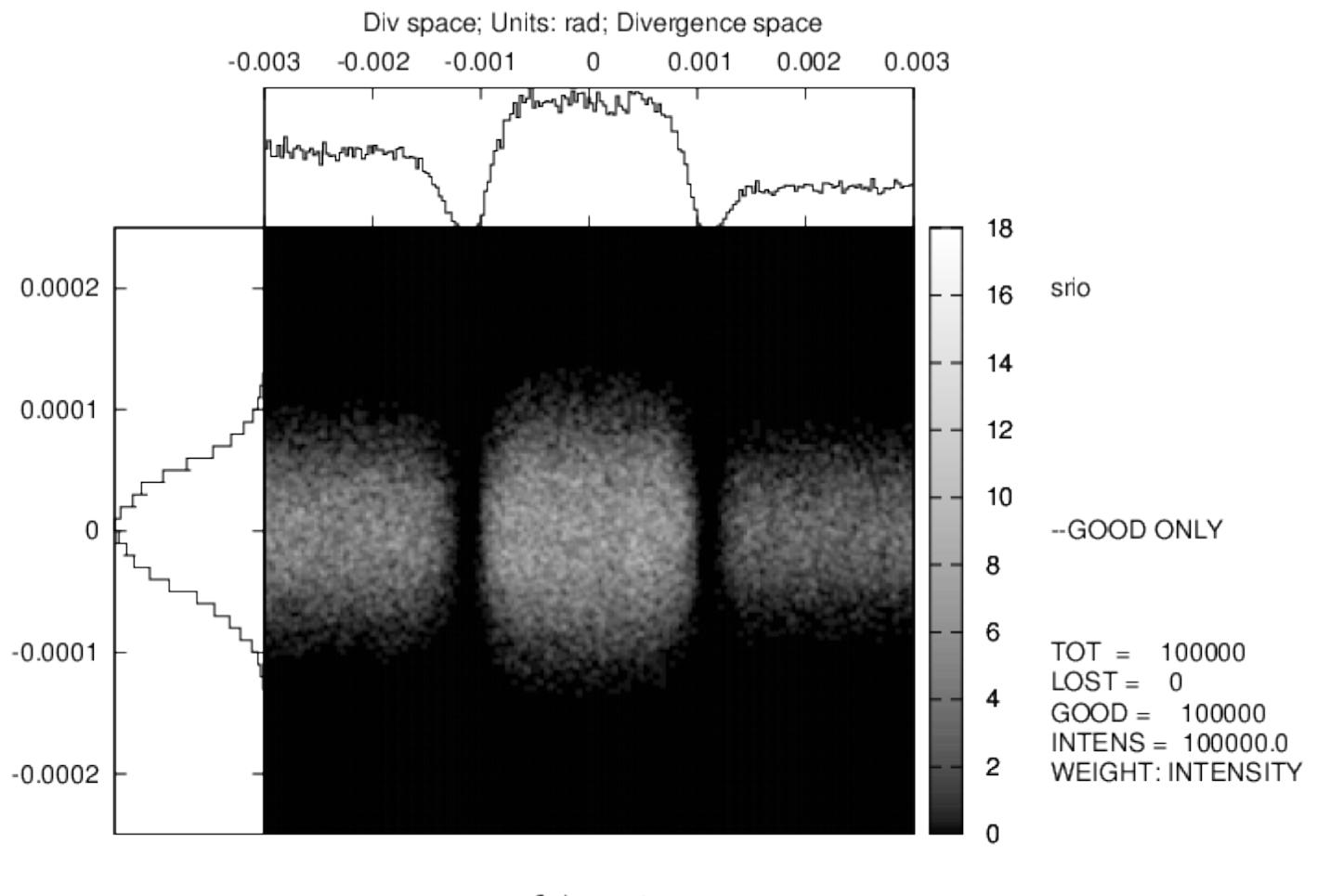


Column 1

0.9.3. Finite Emittance; magnetic field: 1P; E=20 keV

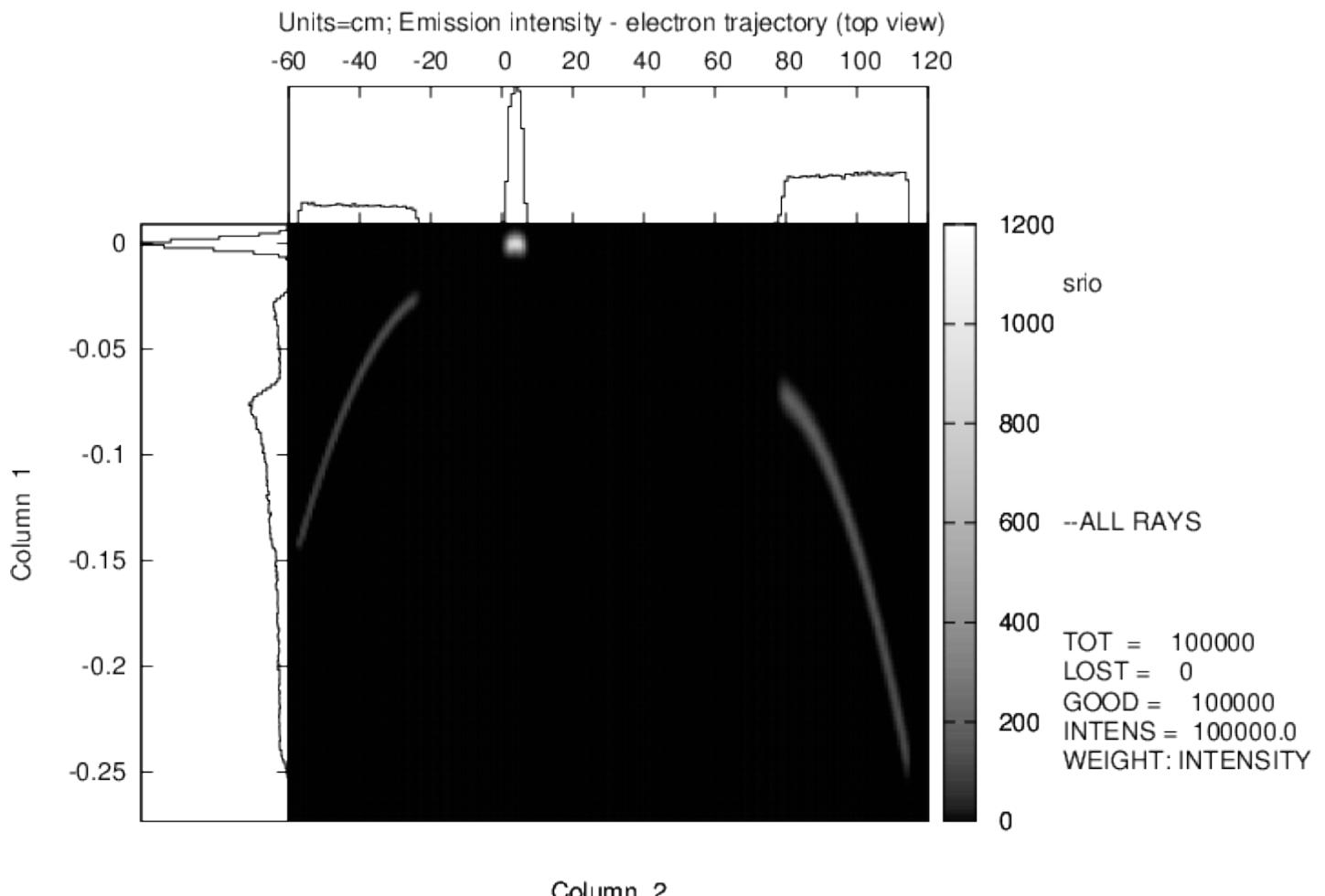
0.9.3.1. Divergence space

FW25M H: 5970.149 urad V: 144.279 urad
 FWHM H: 3850.746 urad V: 101.990 urad
 FW75M H: 1522.388 urad V: 69.652 urad



Column 4

0.9.3.2. Emission intensity - electron trajectory (top view)

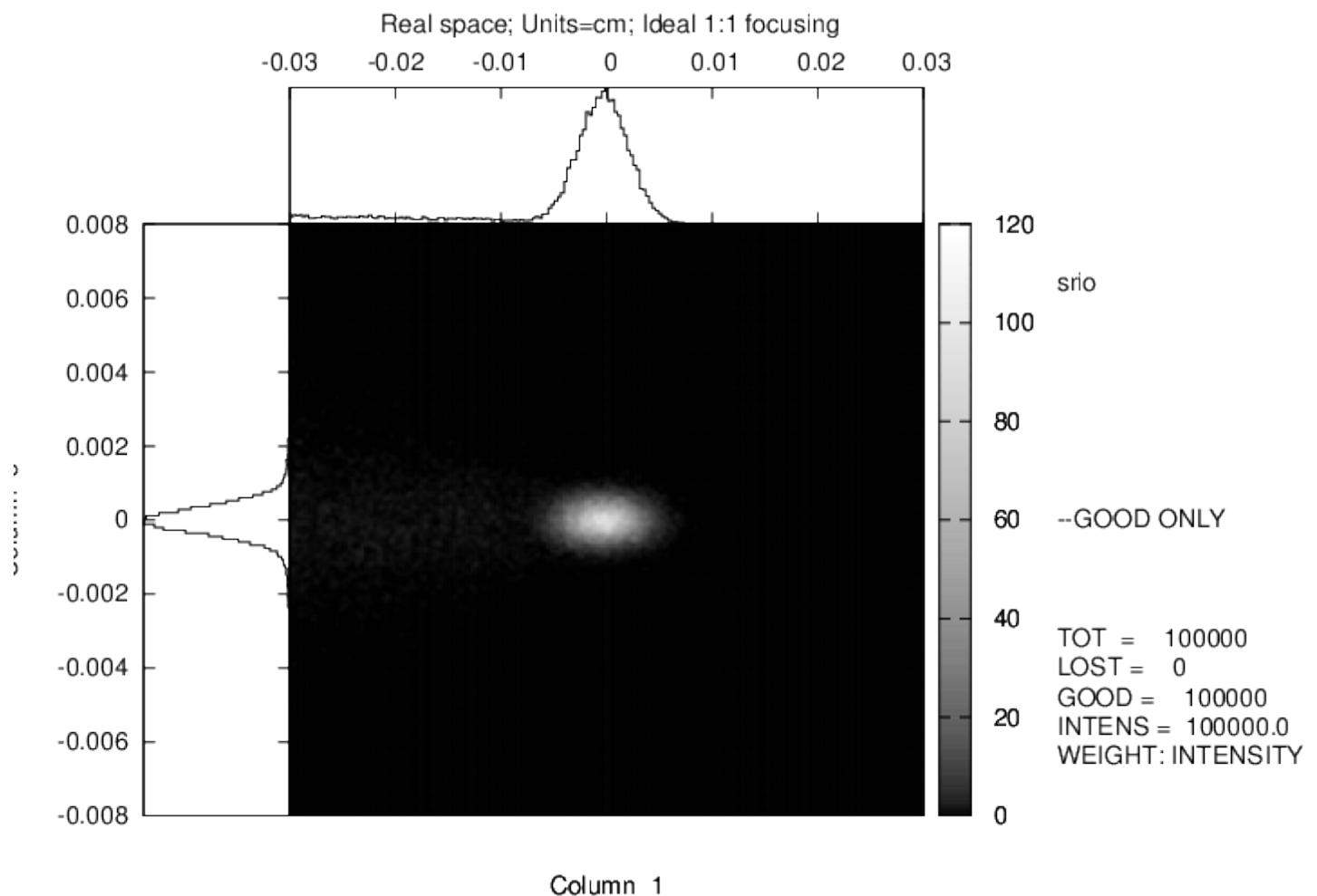


0.9.3.3. Ideal 1:1 focusing

FW25M H: 74.627 um V: 12.736 um

FWHM H: 50.746 um V: 7.960 um

FW75M H: 29.851 um V: 4.776 um



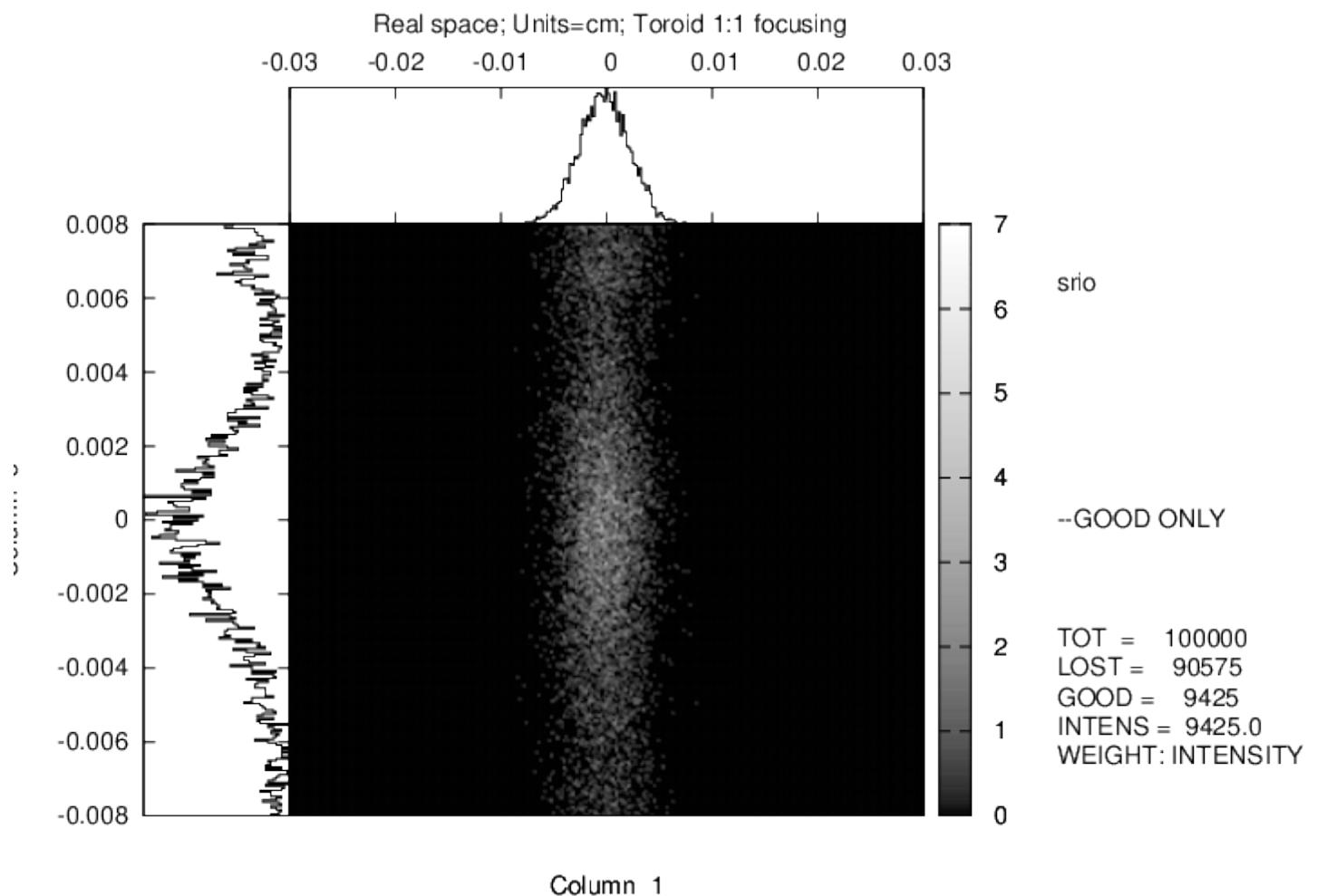
Column 1

0.9.3.4. Toroid 1:1 focusing

FW25M H: 81.728 um V: 155.748 um

FWHM H: 49.834 um V: 111.096 um

FW75M H: 37.874 um V: 29.767 um

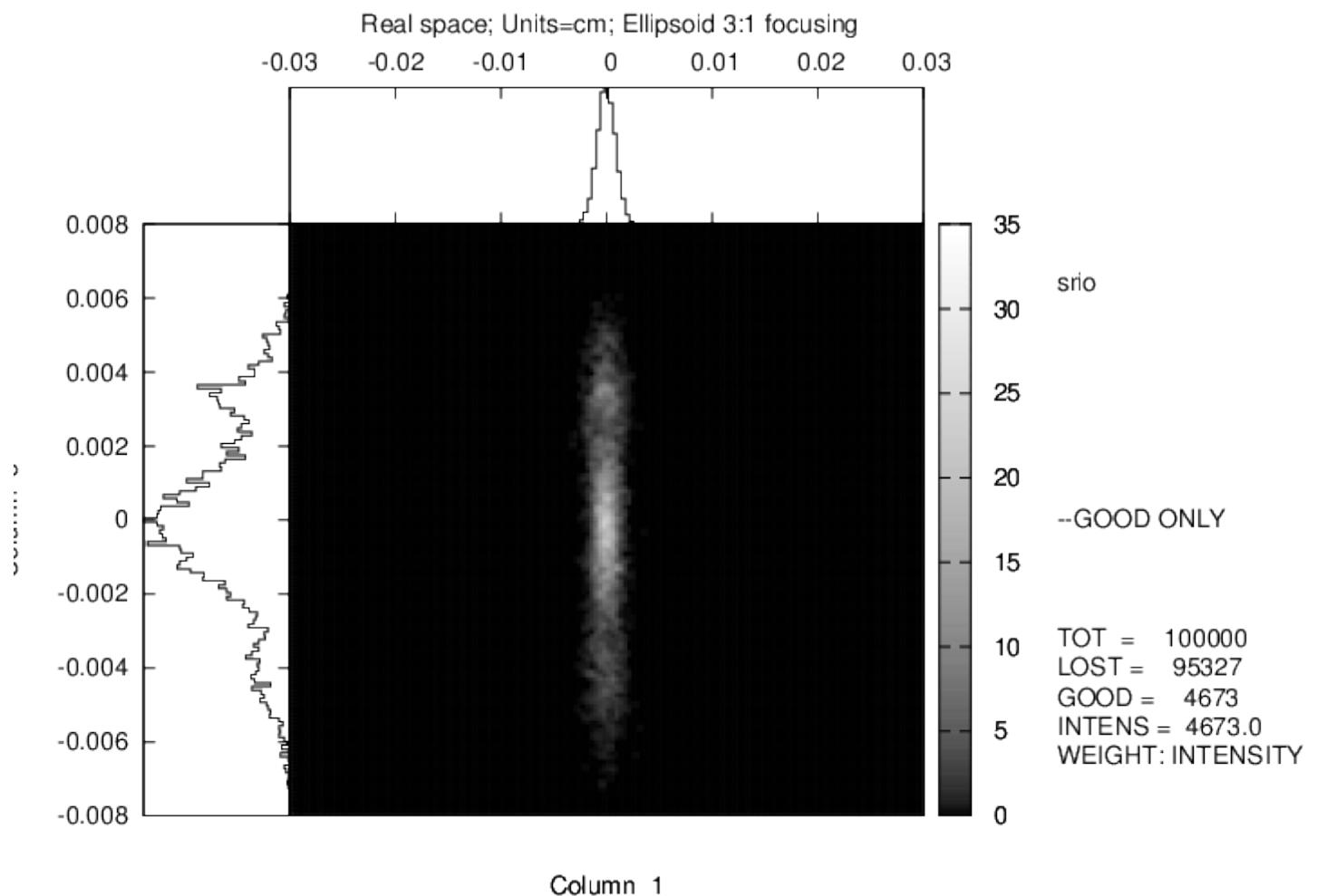


0.9.3.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 86.887 um

FWHM H: 15.894 um V: 51.921 um

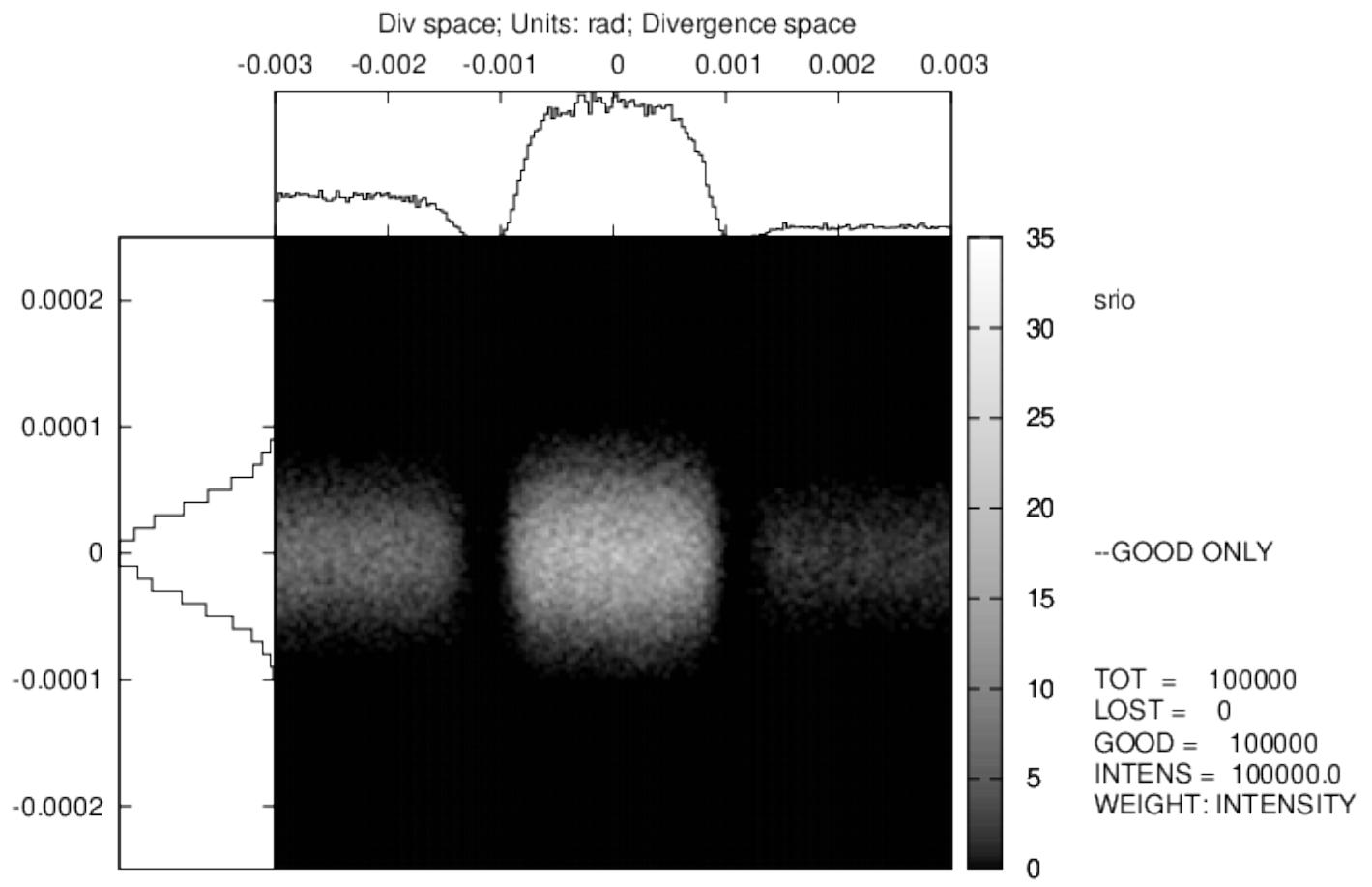
FW75M H: 7.947 um V: 20.132 um



0.9.4. Finite Emittance; magnetic field: 1P; E=40 keV

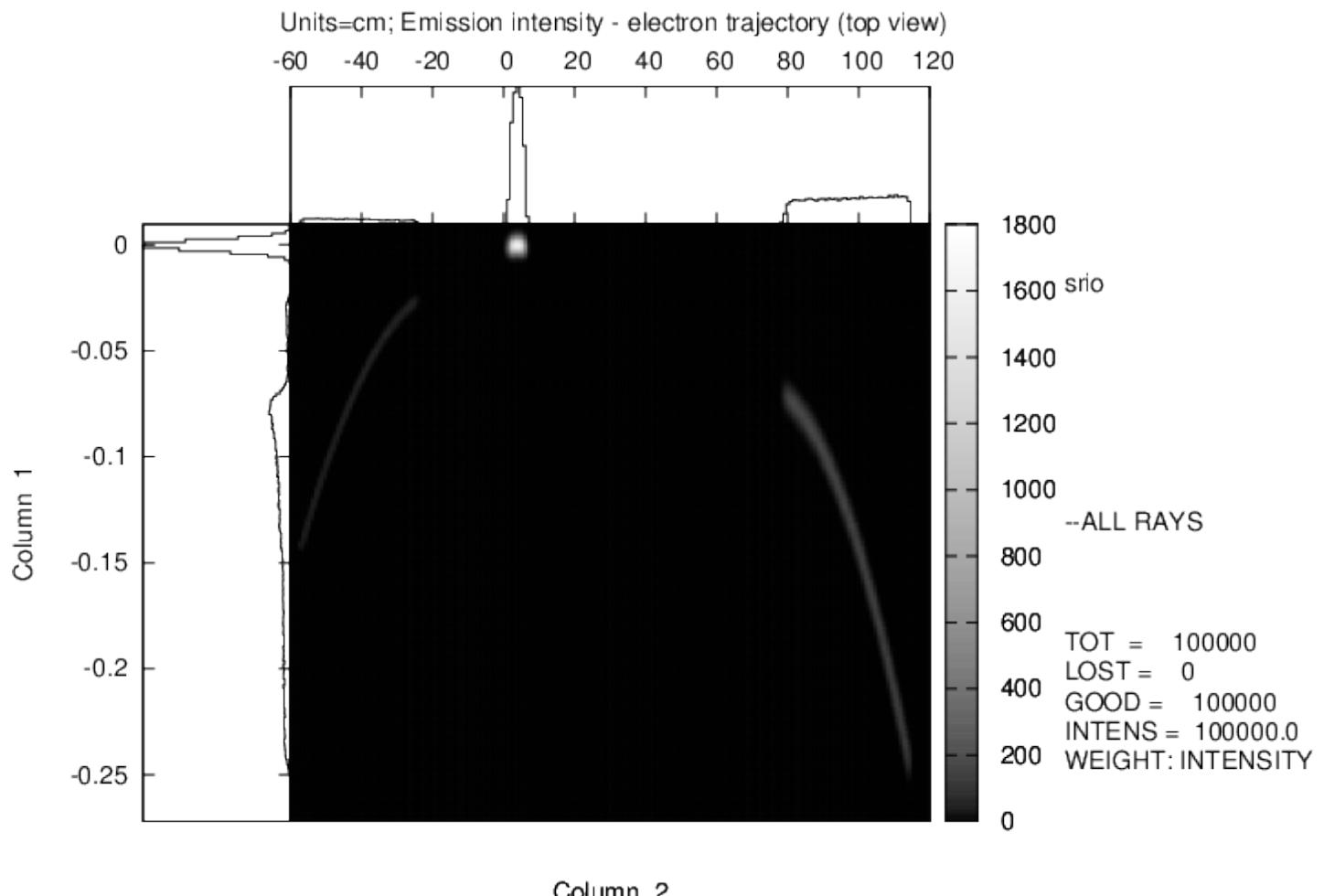
0.9.4.1. Divergence space

FW25M H: 3820.896 urad V: 109.453 urad
 FWHM H: 1582.090 urad V: 77.114 urad
 FW75M H: 1253.731 urad V: 49.751 urad



Column 4

0.9.4.2. Emission intensity - electron trajectory (top view)

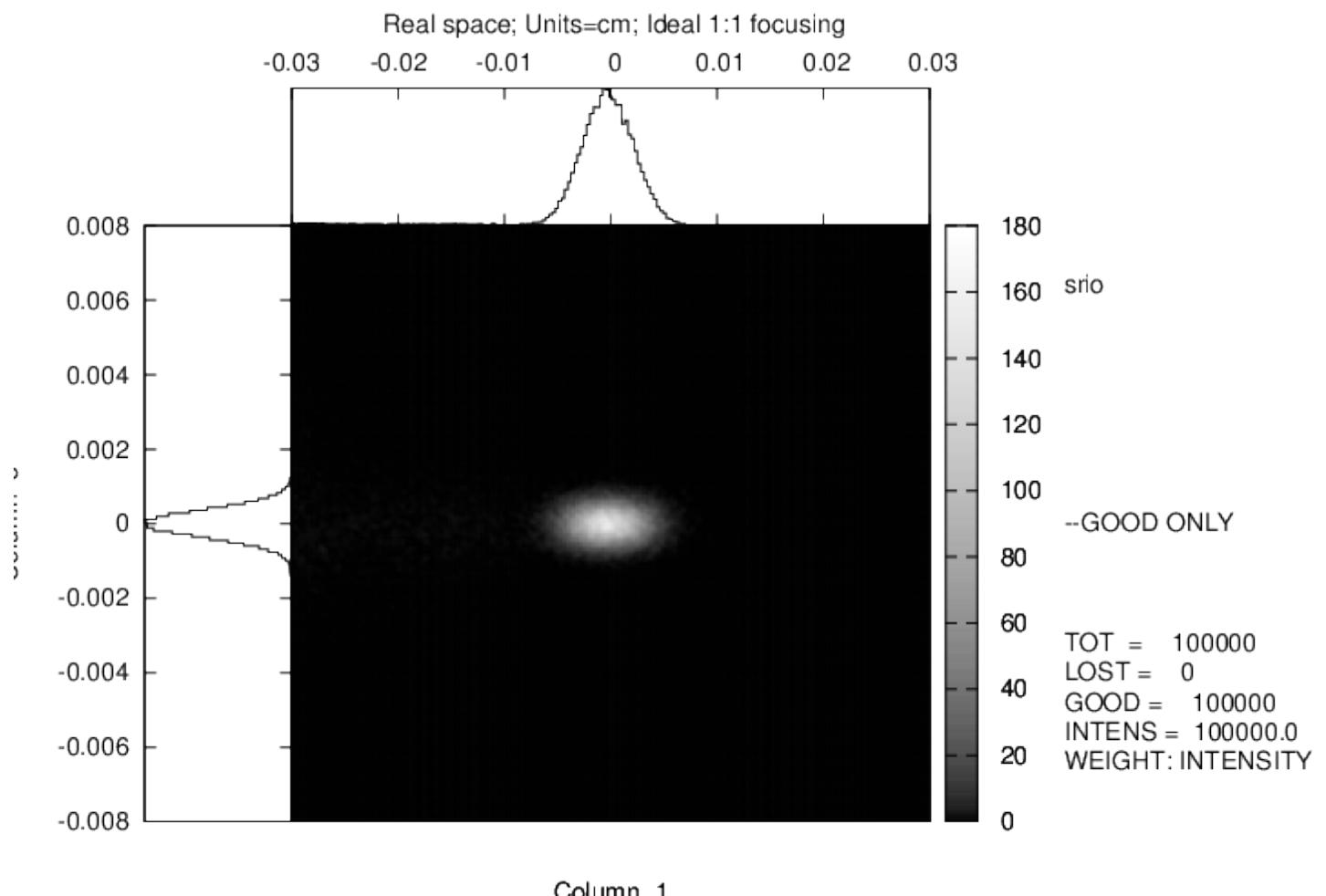


0.9.4.3. Ideal 1:1 focusing

FW25M H: 77.612 um V: 11.144 um

FWHM H: 53.731 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um

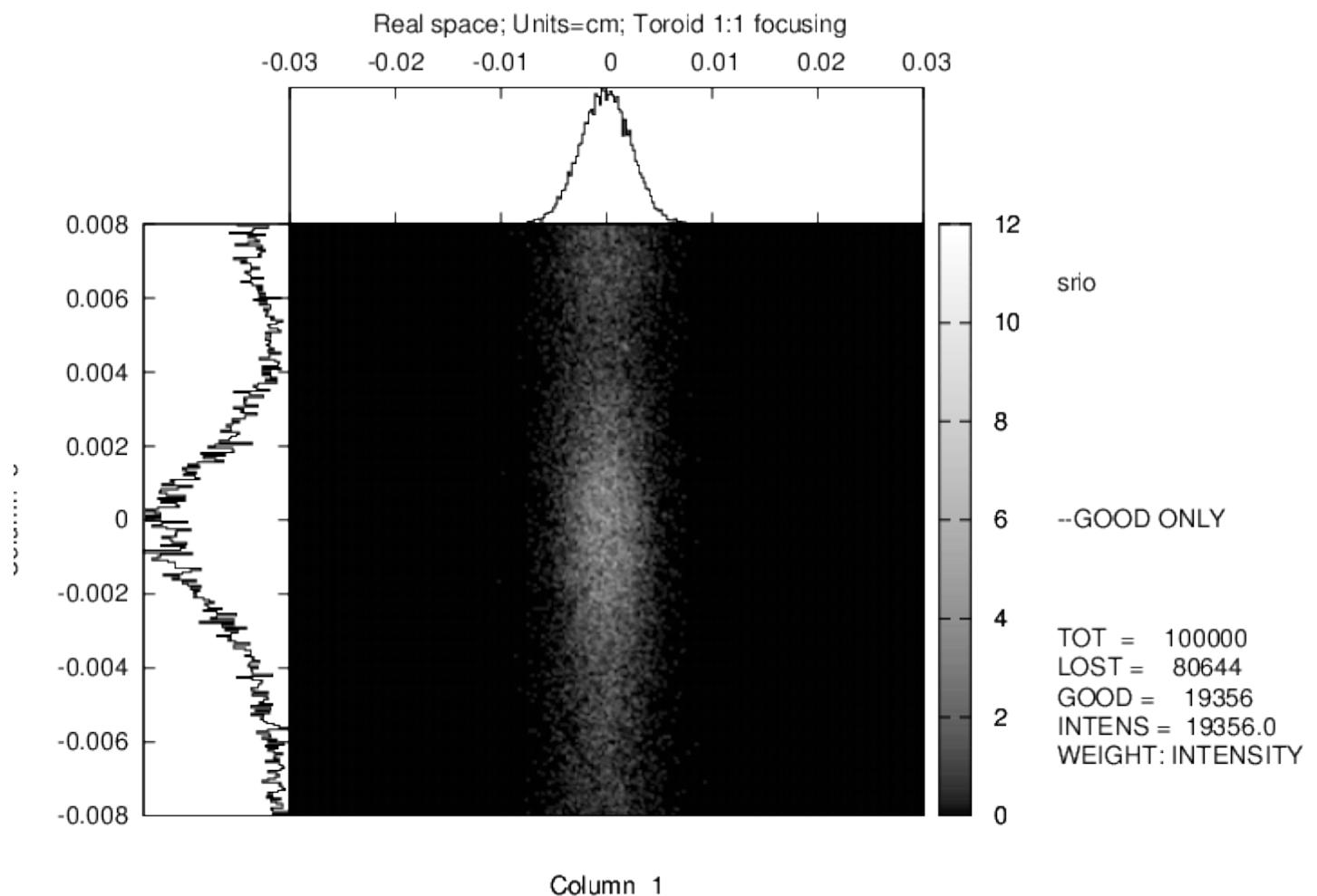


0.9.4.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 154.684 um

FWHM H: 51.827 um V: 56.877 um

FW75M H: 33.887 um V: 30.831 um

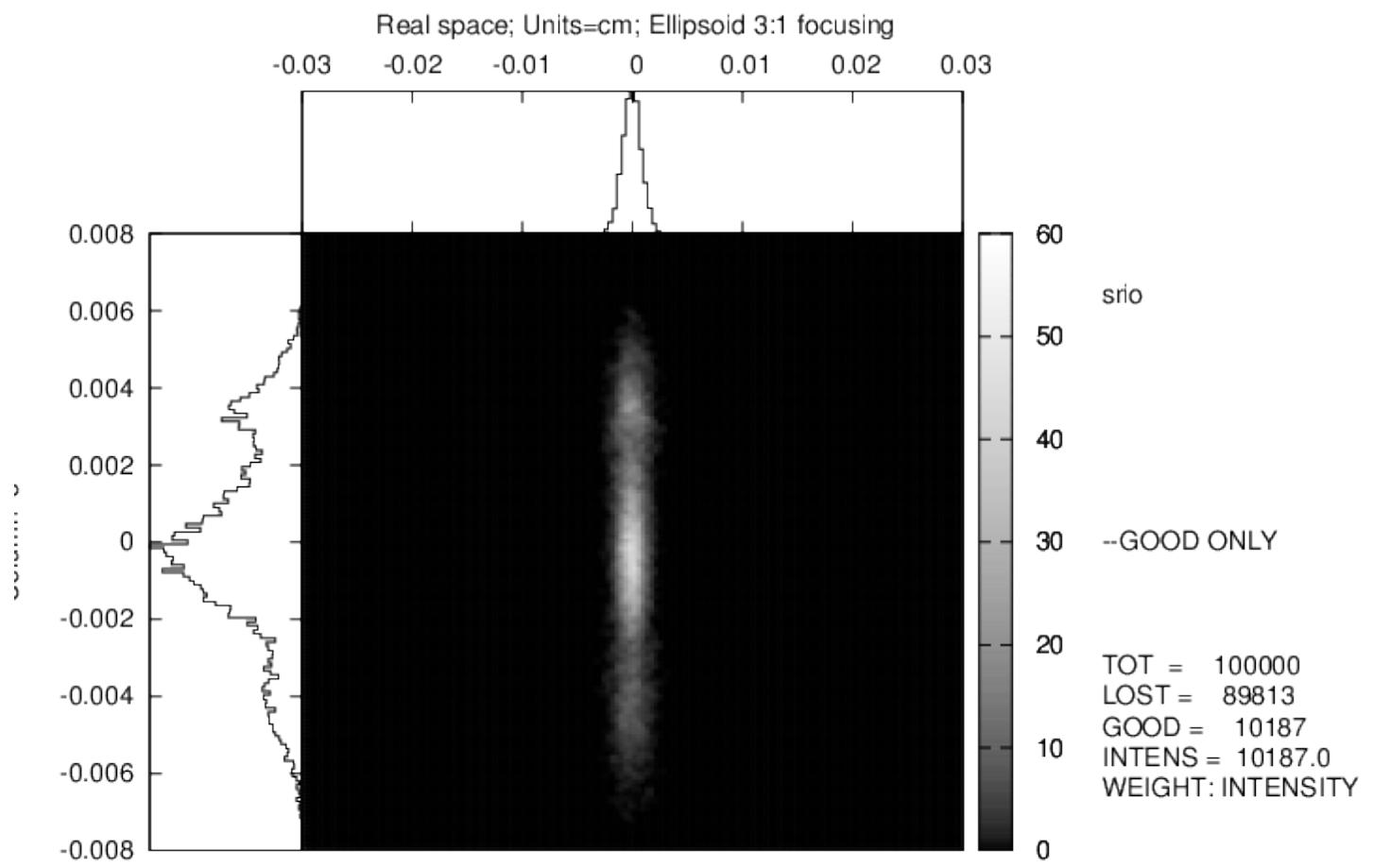


0.9.4.5. Ellipsoid 3:1 focusing

FW25M H: 23.841 um V: 81.589 um

FWHM H: 15.894 um V: 47.682 um

FW75M H: 7.947 um V: 12.715 um

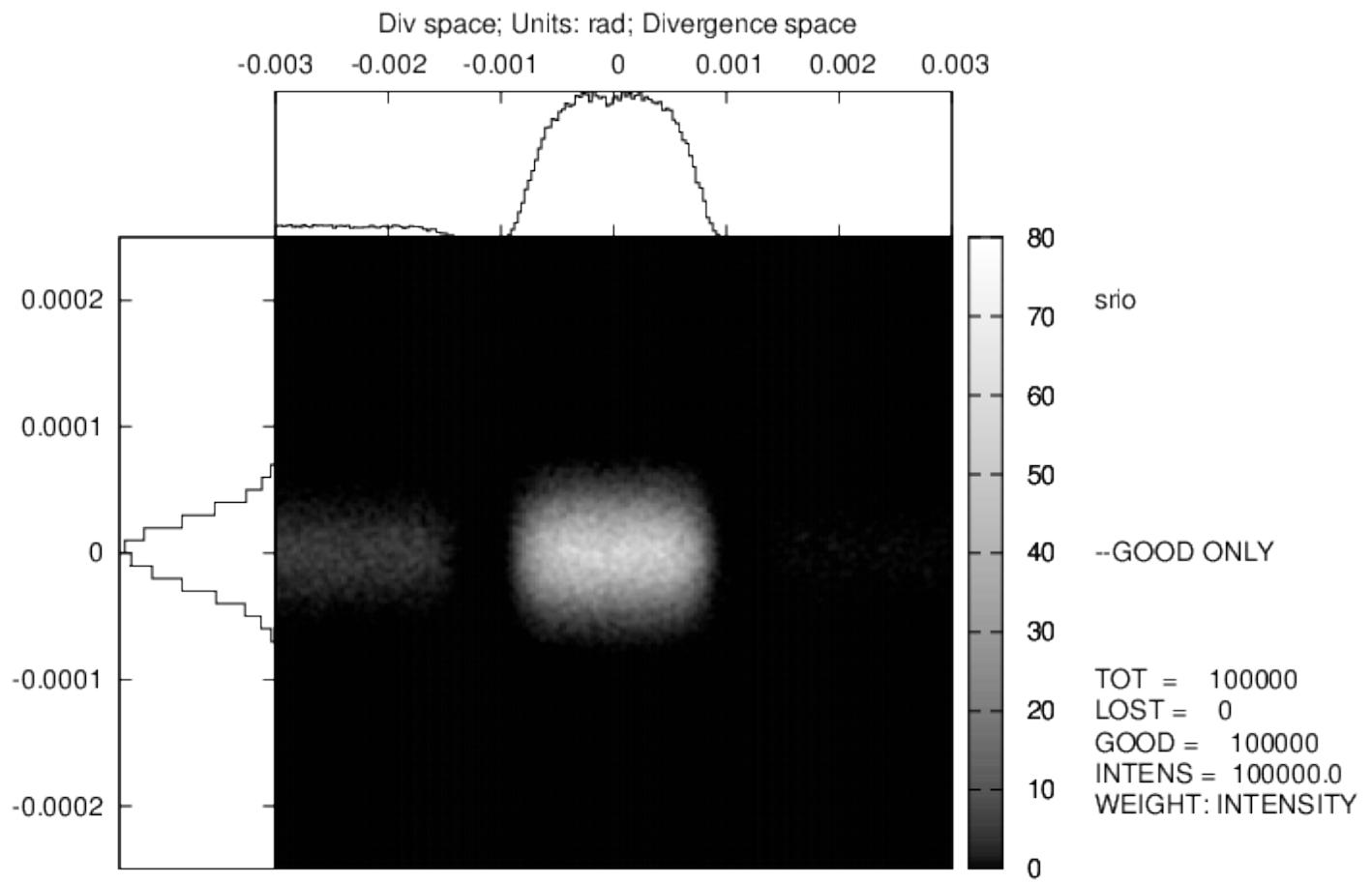


Column 1

0.9.5. Finite Emittance; magnetic field: 1P; E=80 keV

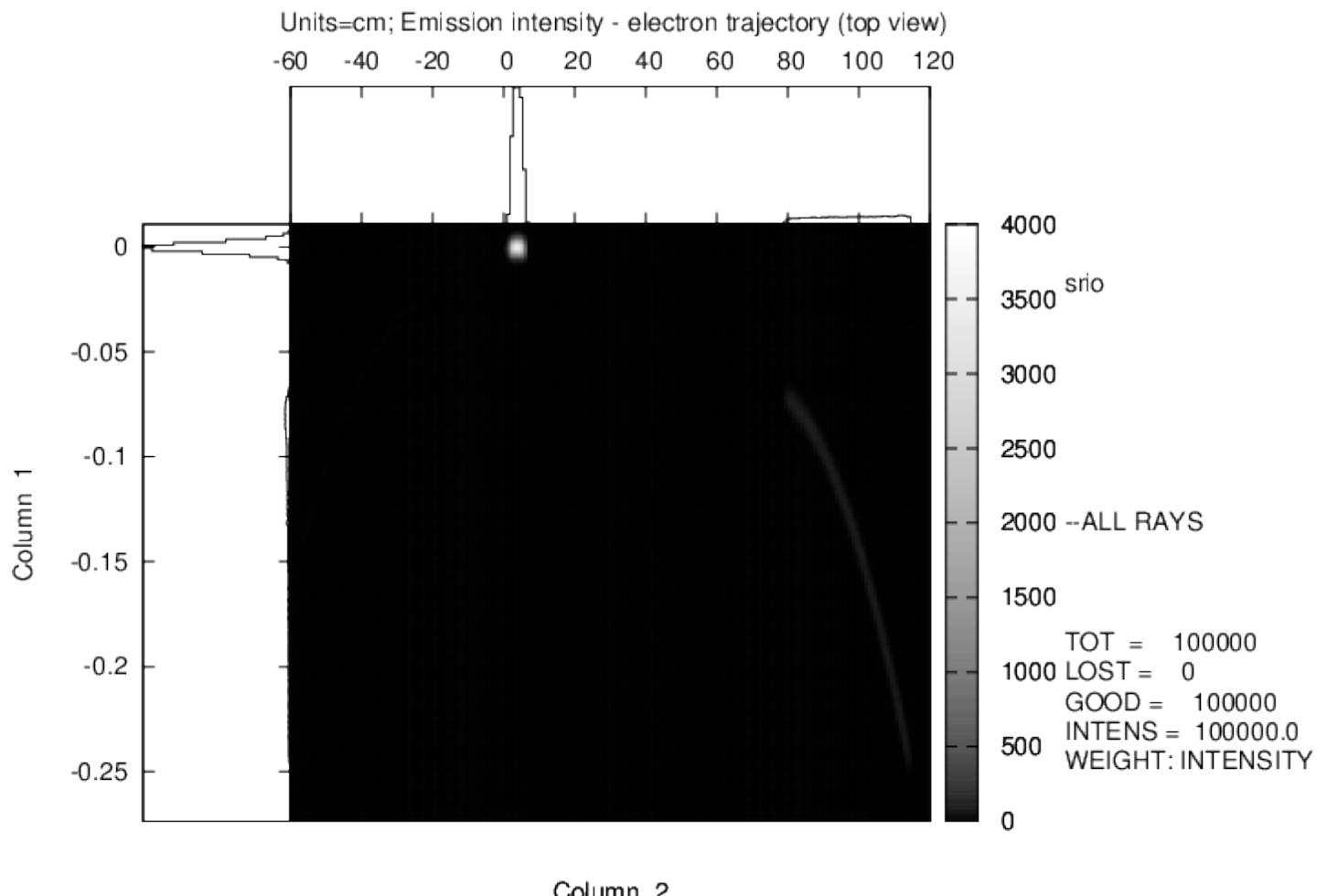
0.9.5.1. Divergence space

FW25M H: 1552.239 urad V: 82.090 urad
 FWHM H: 1373.134 urad V: 54.726 urad
 FW75M H: 1164.179 urad V: 34.826 urad



Column 4

0.9.5.2. Emission intensity - electron trajectory (top view)

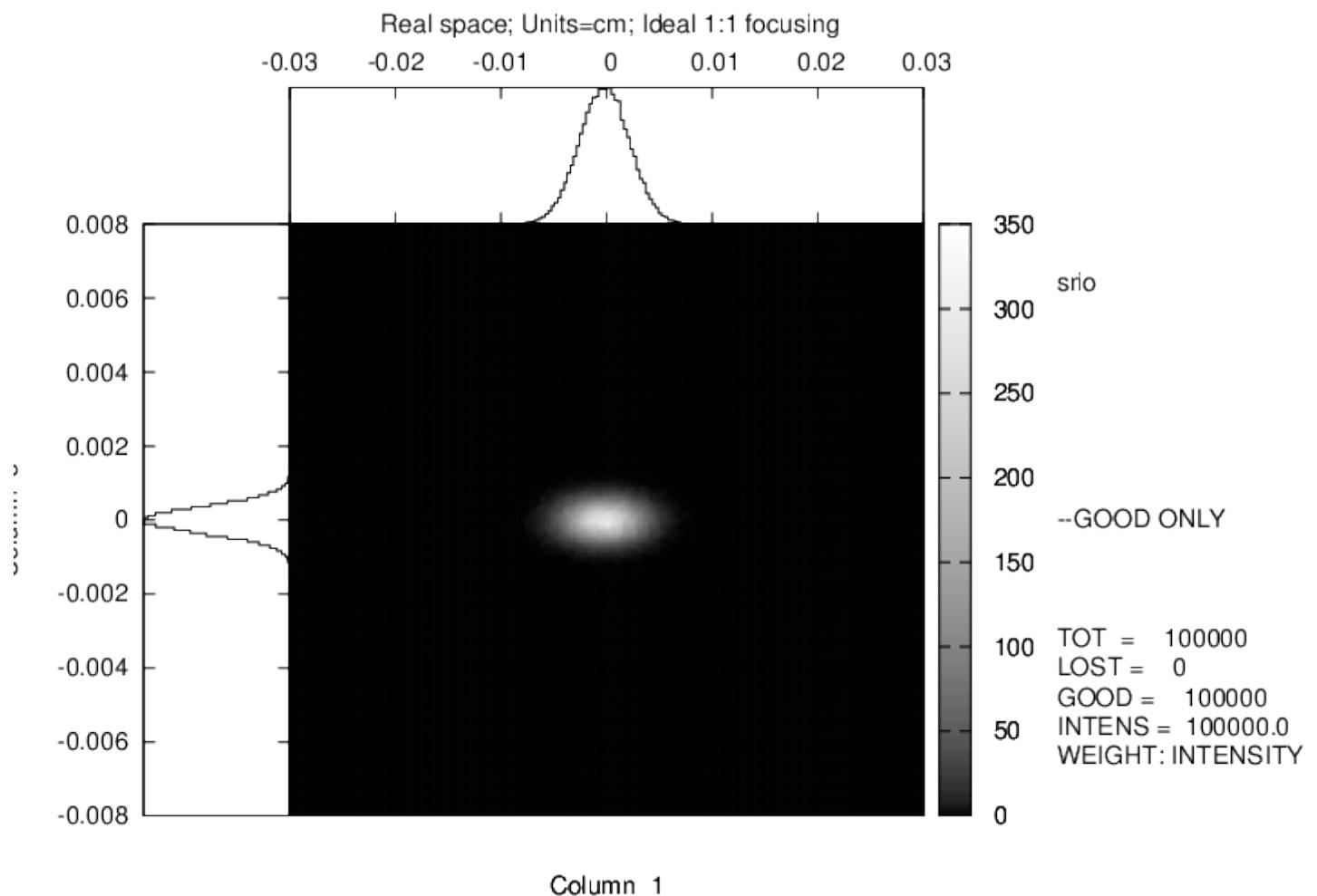


0.9.5.3. Ideal 1:1 focusing

FW25M H: 74.627 um V: 11.144 um

FWHM H: 50.746 um V: 7.960 um

FW75M H: 32.836 um V: 4.776 um



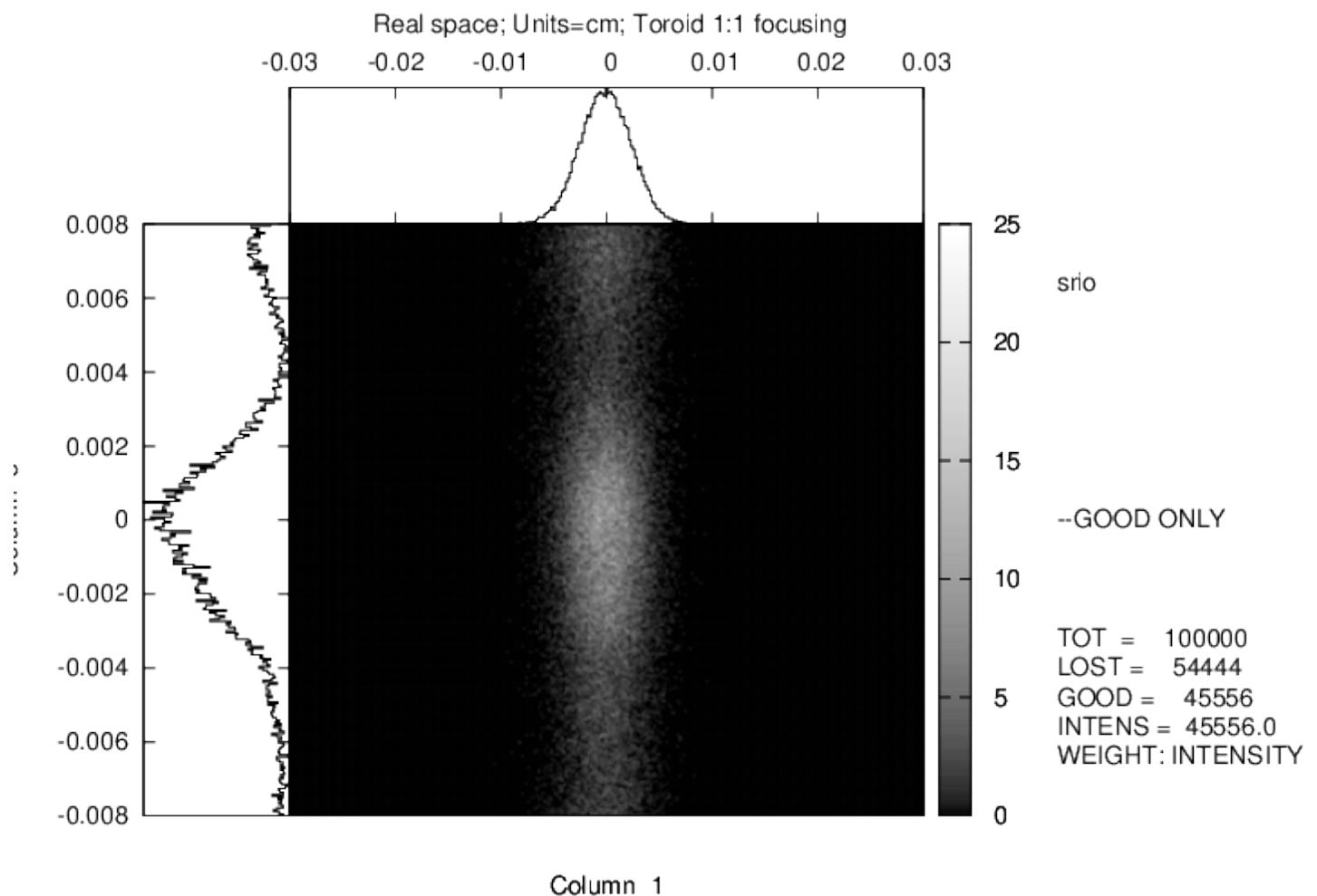
Column 1

0.9.5.4. Toroid 1:1 focusing

FW25M H: 77.741 um V: 129.701 um

FWHM H: 53.821 um V: 49.967 um

FW75M H: 33.887 um V: 25.515 um



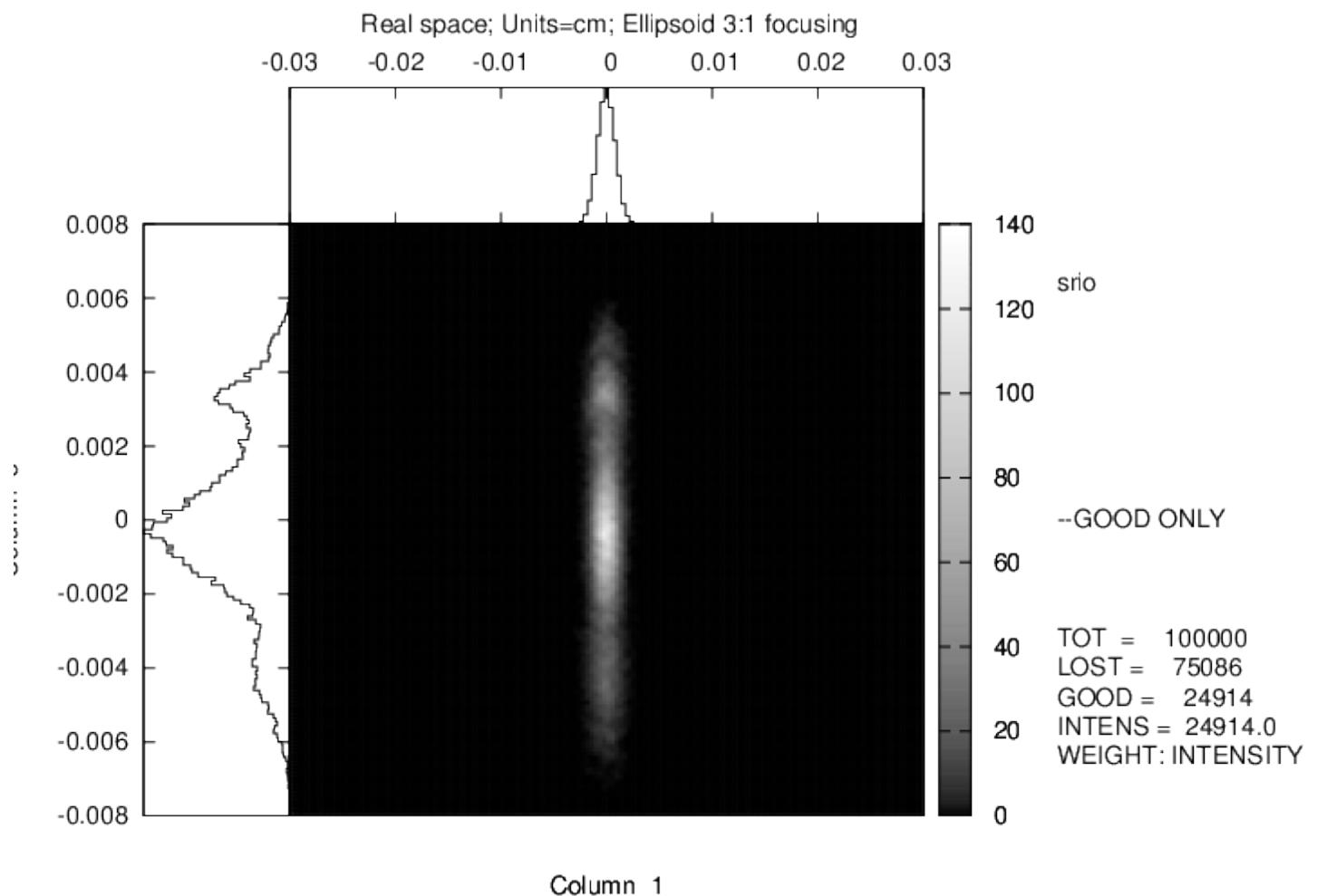
Column 1

0.9.5.5. Ellipsoid 3:1 focusing

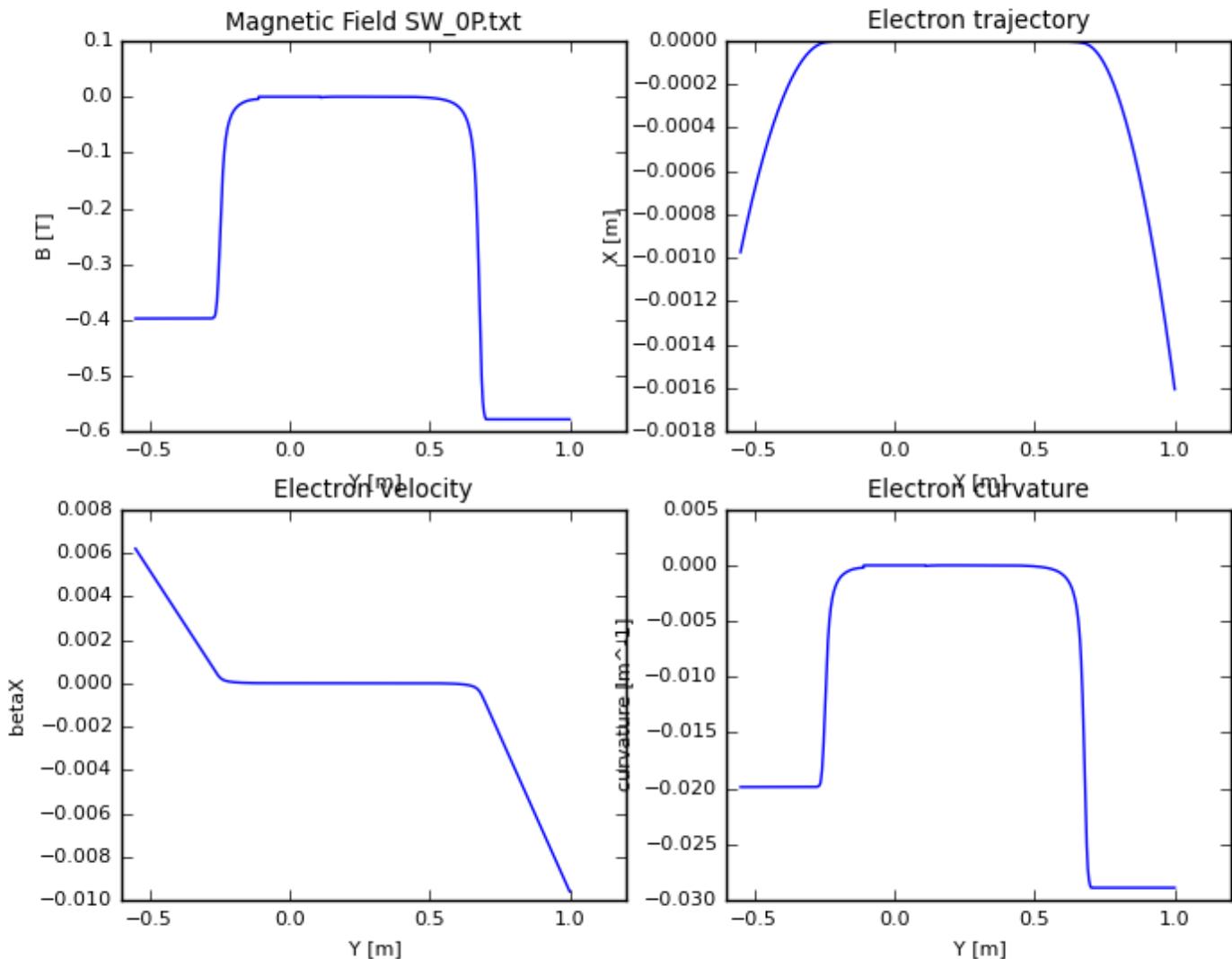
FW25M H: 23.841 um V: 79.470 um

FWHM H: 15.894 um V: 49.801 um

FW75M H: 7.947 um V: 11.656 um



0.10. Finite Emittance; magnetic field: 0P



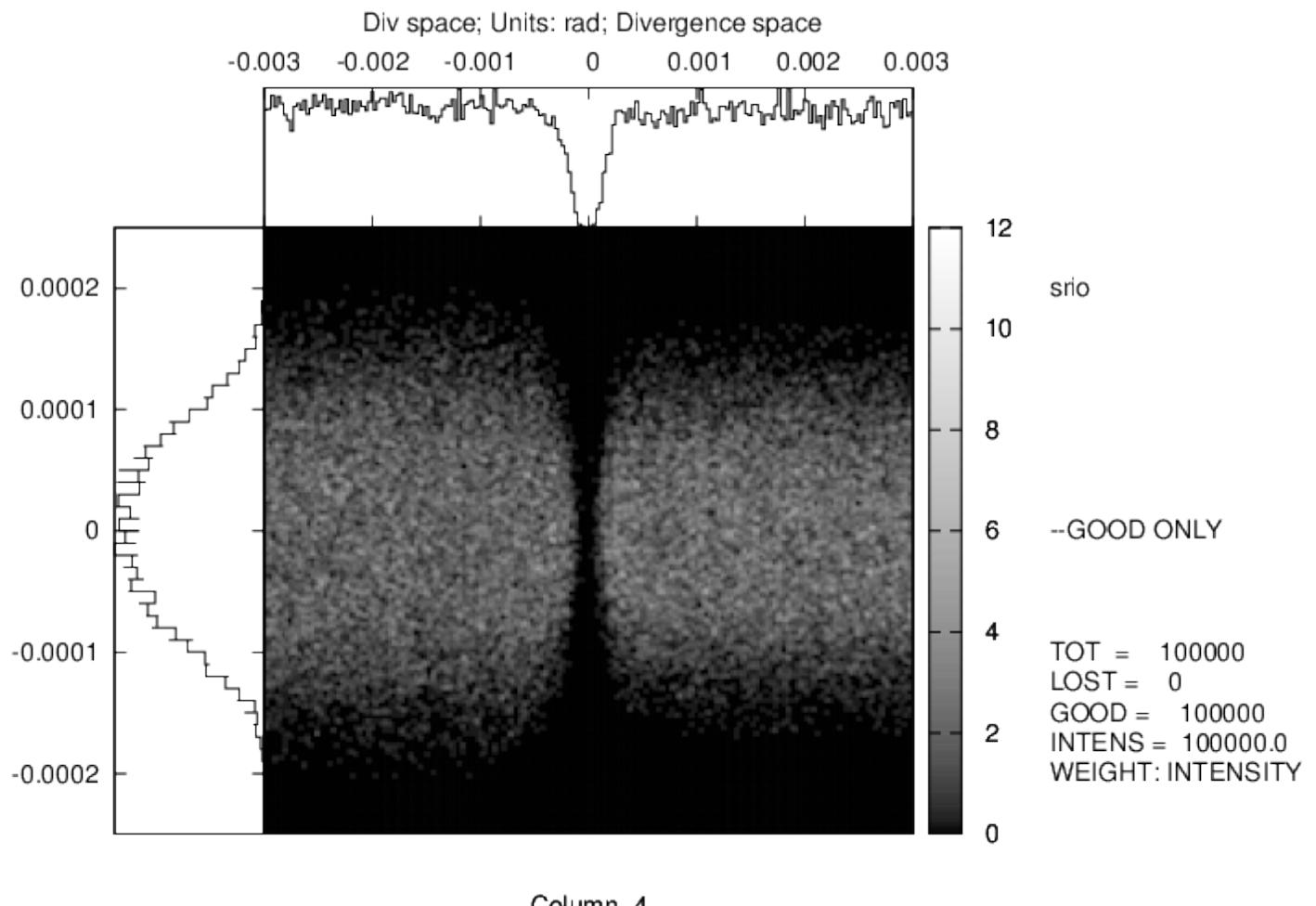
0.10.1. Finite Emittance; magnetic field: 0P; E=5 keV

0.10.1.1. Divergence space

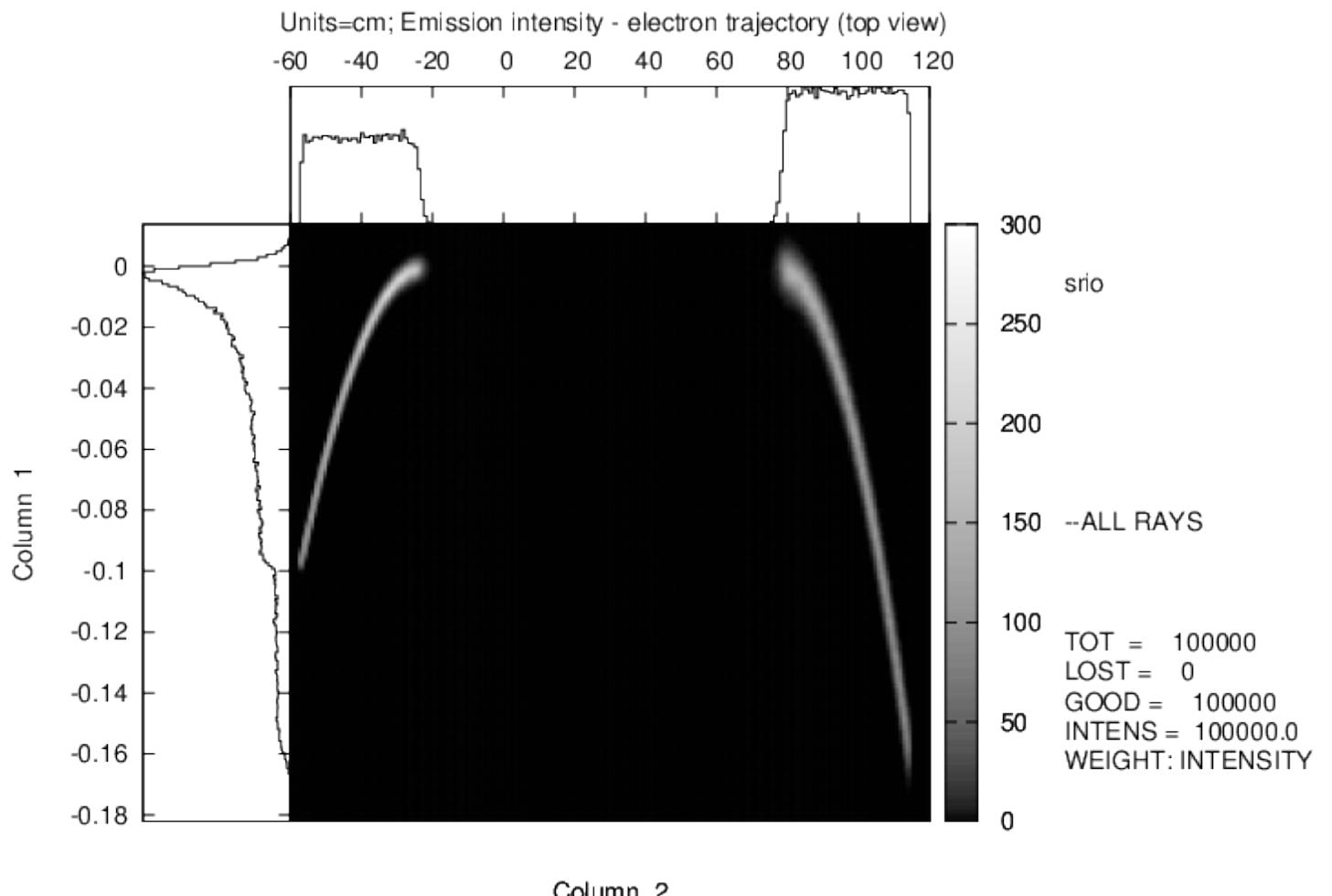
FW25M H: 5970.149 urad V: 243.781 urad

FWHM H: 5970.149 urad V: 194.030 urad

FW75M H: 5970.149 urad V: 151.741 urad



0.10.1.2. Emission intensity - electron trajectory (top view)

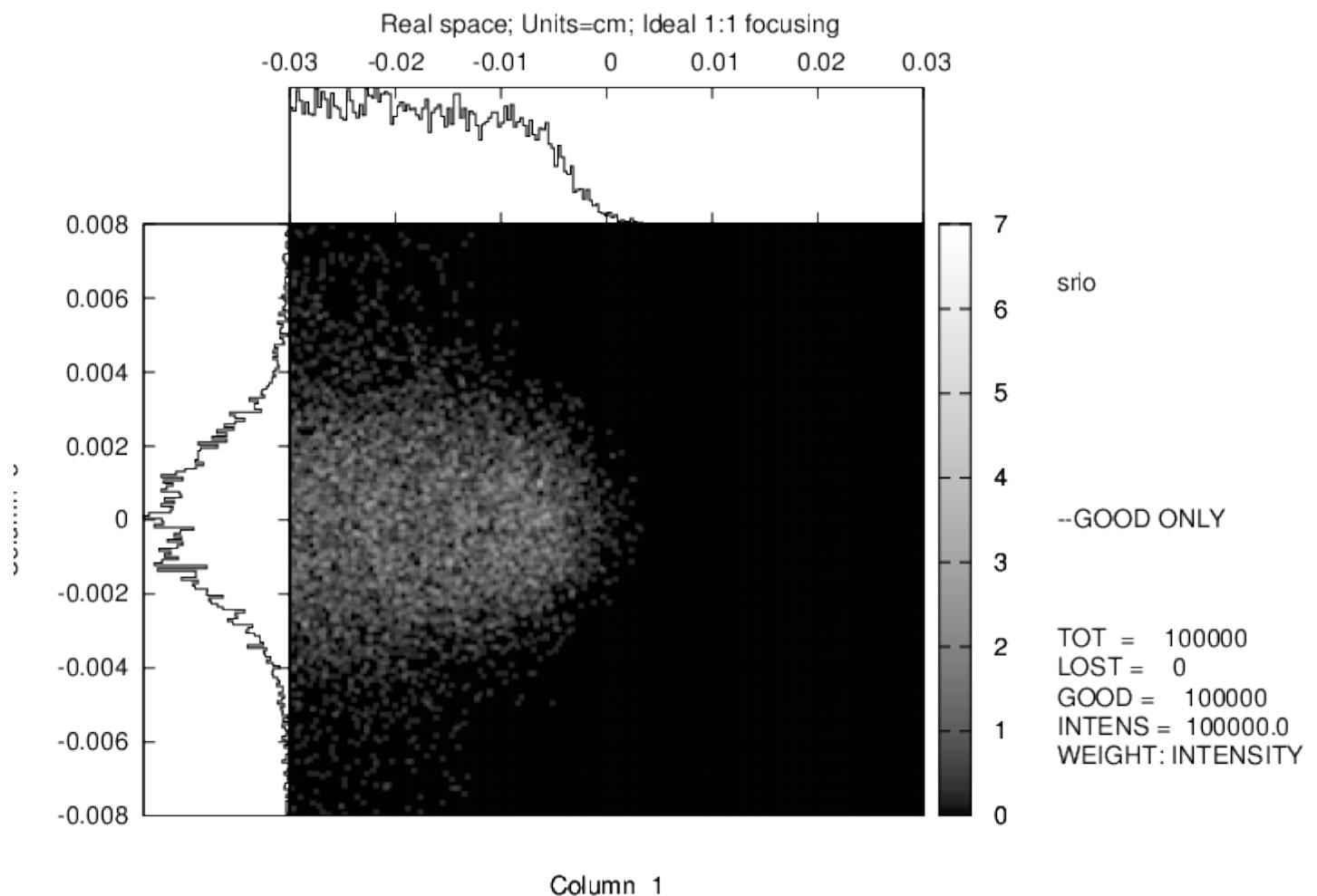


0.10.1.3. Ideal 1:1 focusing

FW25M H: 274.627 um V: 66.866 um

FWHM H: 253.731 um V: 46.169 um

FW75M H: 226.866 um V: 26.269 um



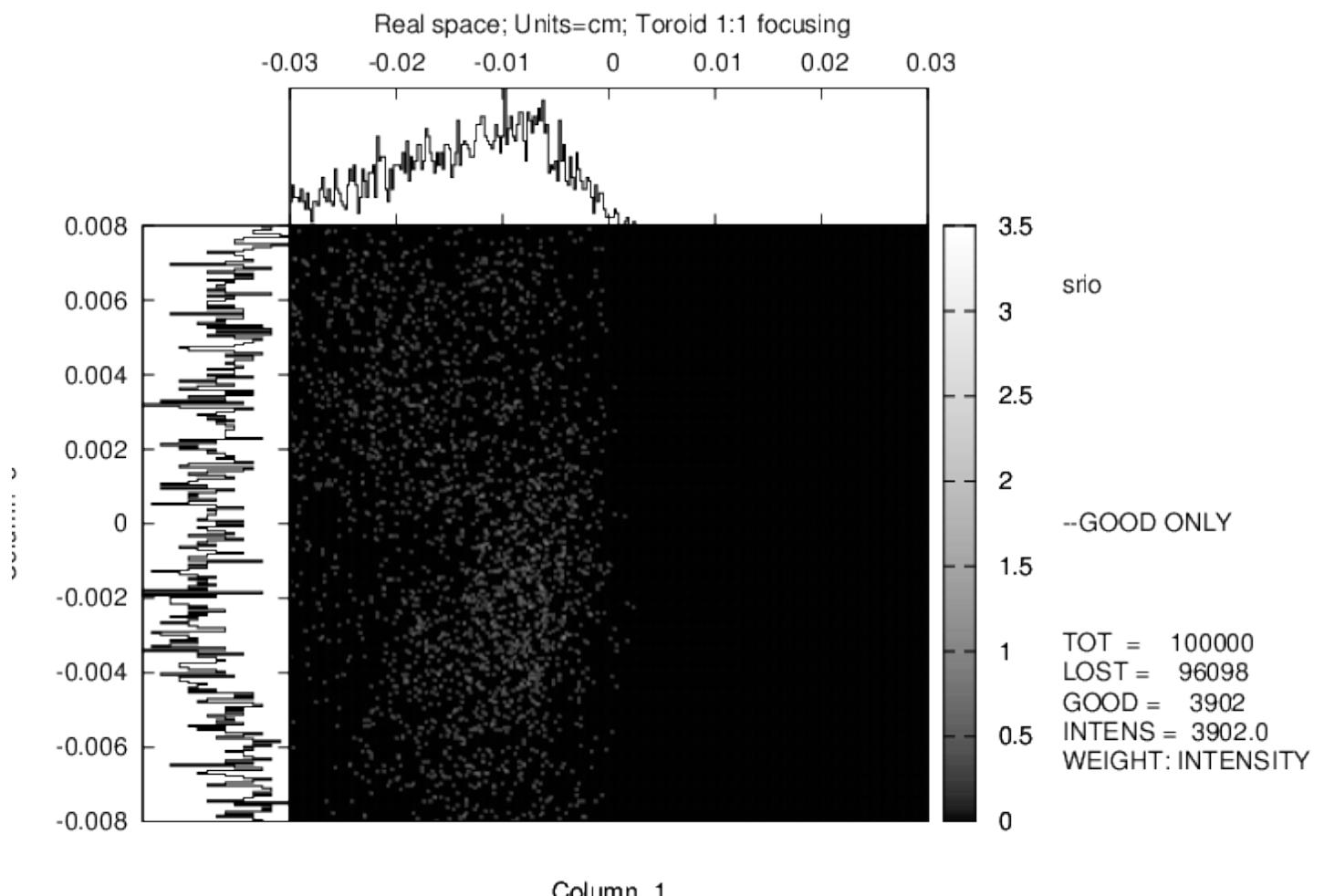
Column 1

0.10.1.4. Toroid 1:1 focusing

FW25M H: 285.050 um V: 157.342 um

FWHM H: 187.375 um V: 151.495 um

FW75M H: 95.681 um V: 134.485 um

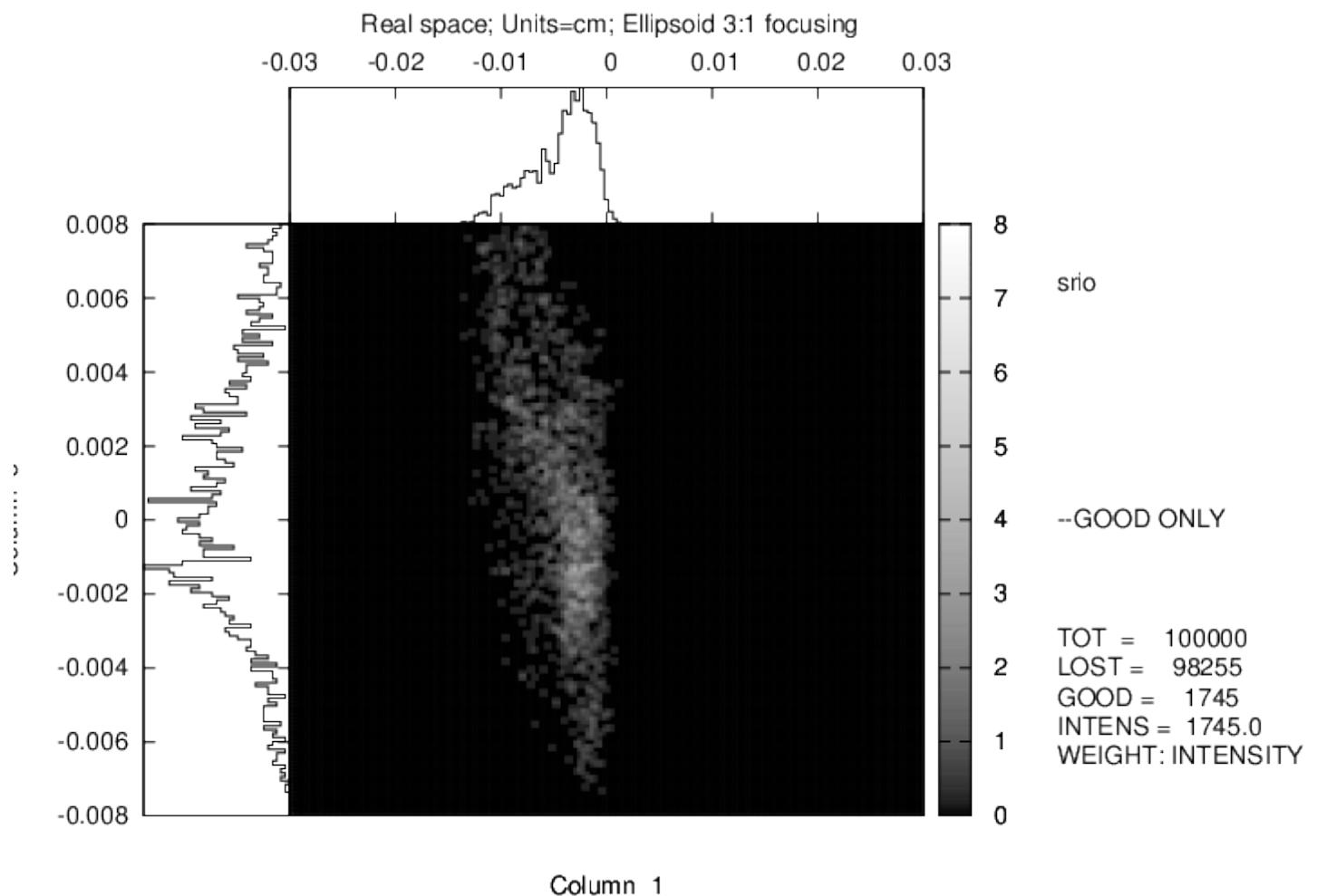


0.10.1.5. Ellipsoid 3:1 focusing

FW25M H: 91.391 um V: 114.437 um

FWHM H: 51.656 um V: 54.040 um

FW75M H: 23.841 um V: 22.252 um

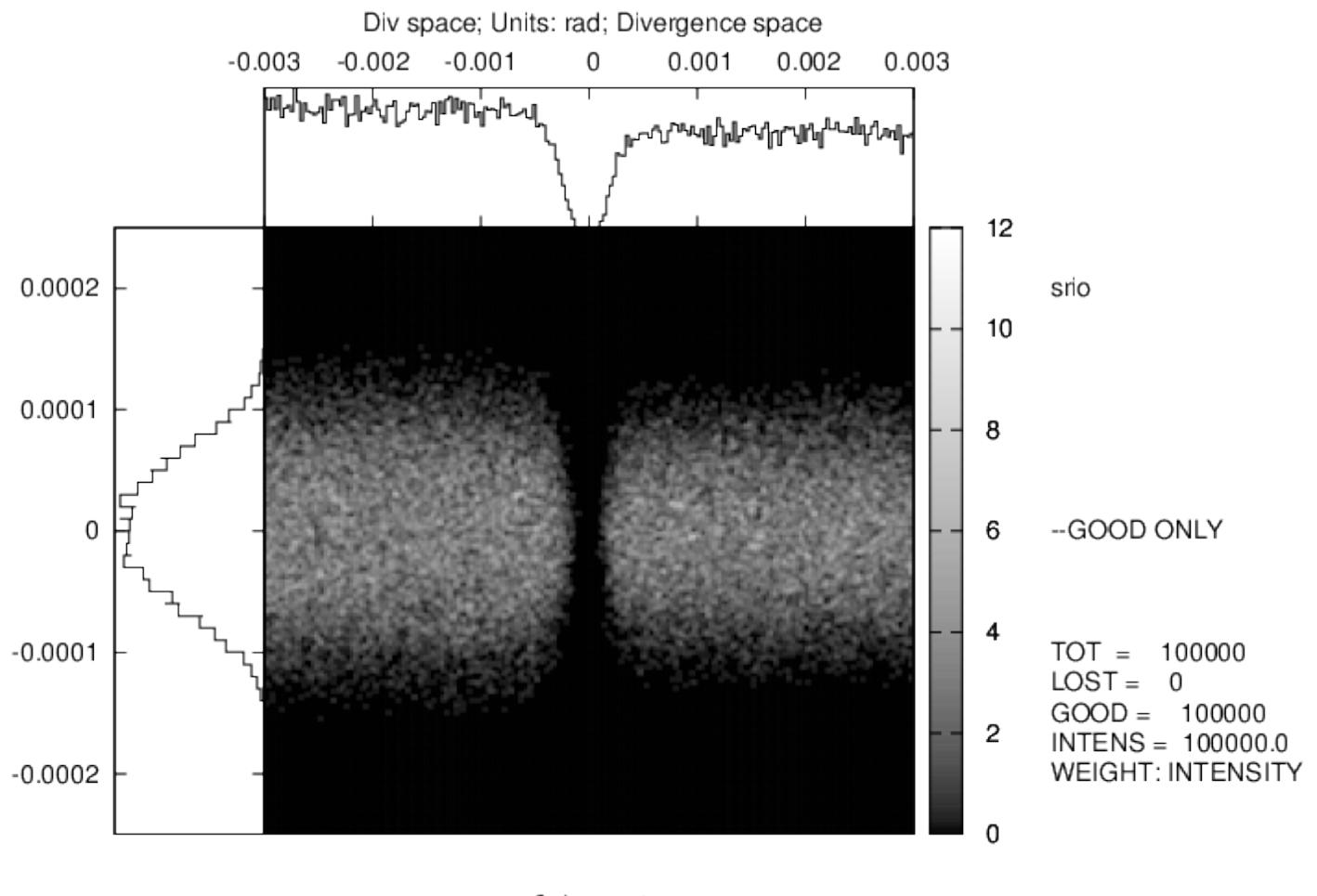


0.10.2. Finite Emittance; magnetic field: 0P; E=10 keV

0.10.2.1. Divergence space

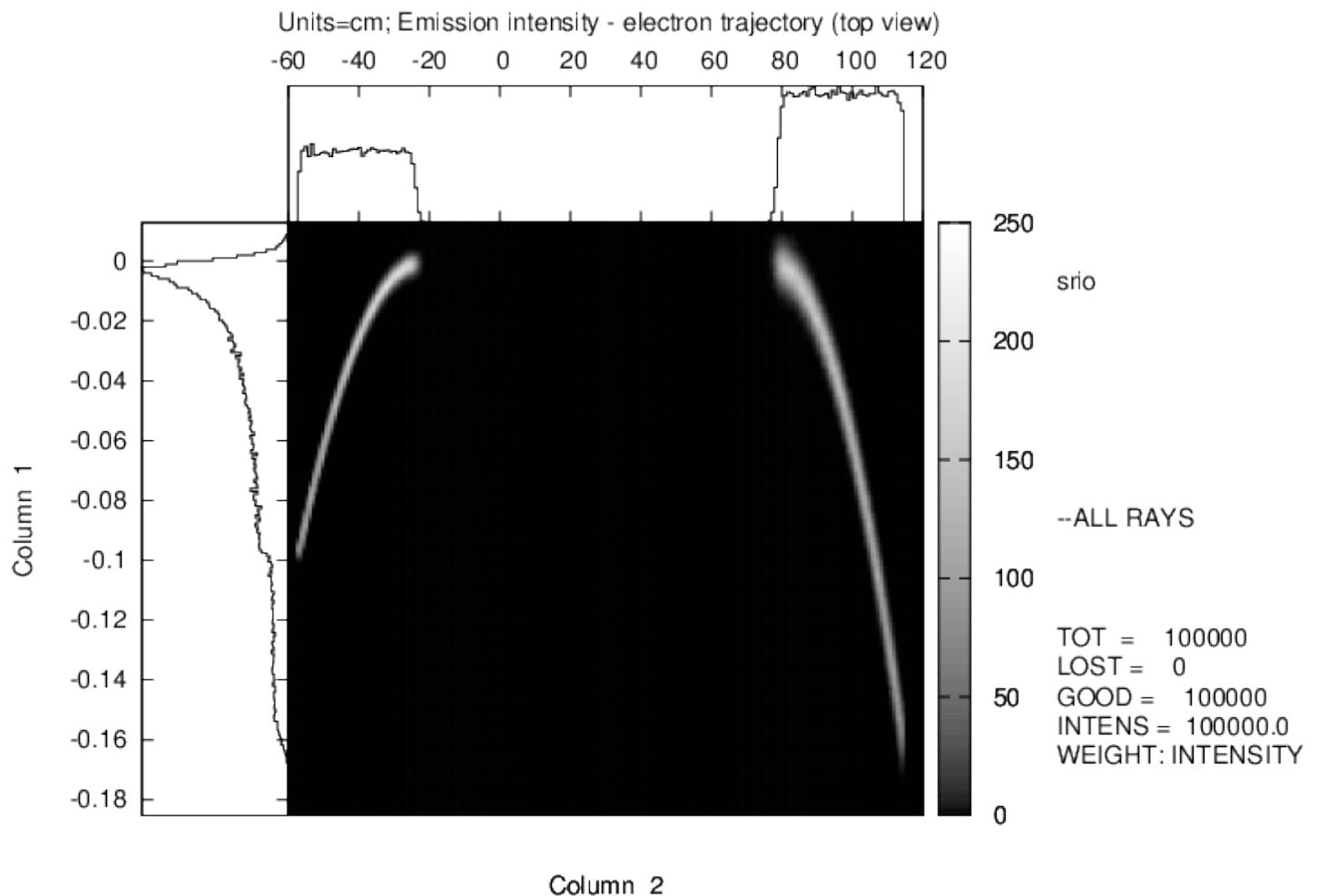
```

FW25M H: 5970.149 urad V: 184.080 urad
FWHM H: 5970.149 urad V: 136.816 urad
FW75M H: 5641.791 urad V: 92.040 urad
  
```



Column 4

0.10.2.2. Emission intensity - electron trajectory (top view)

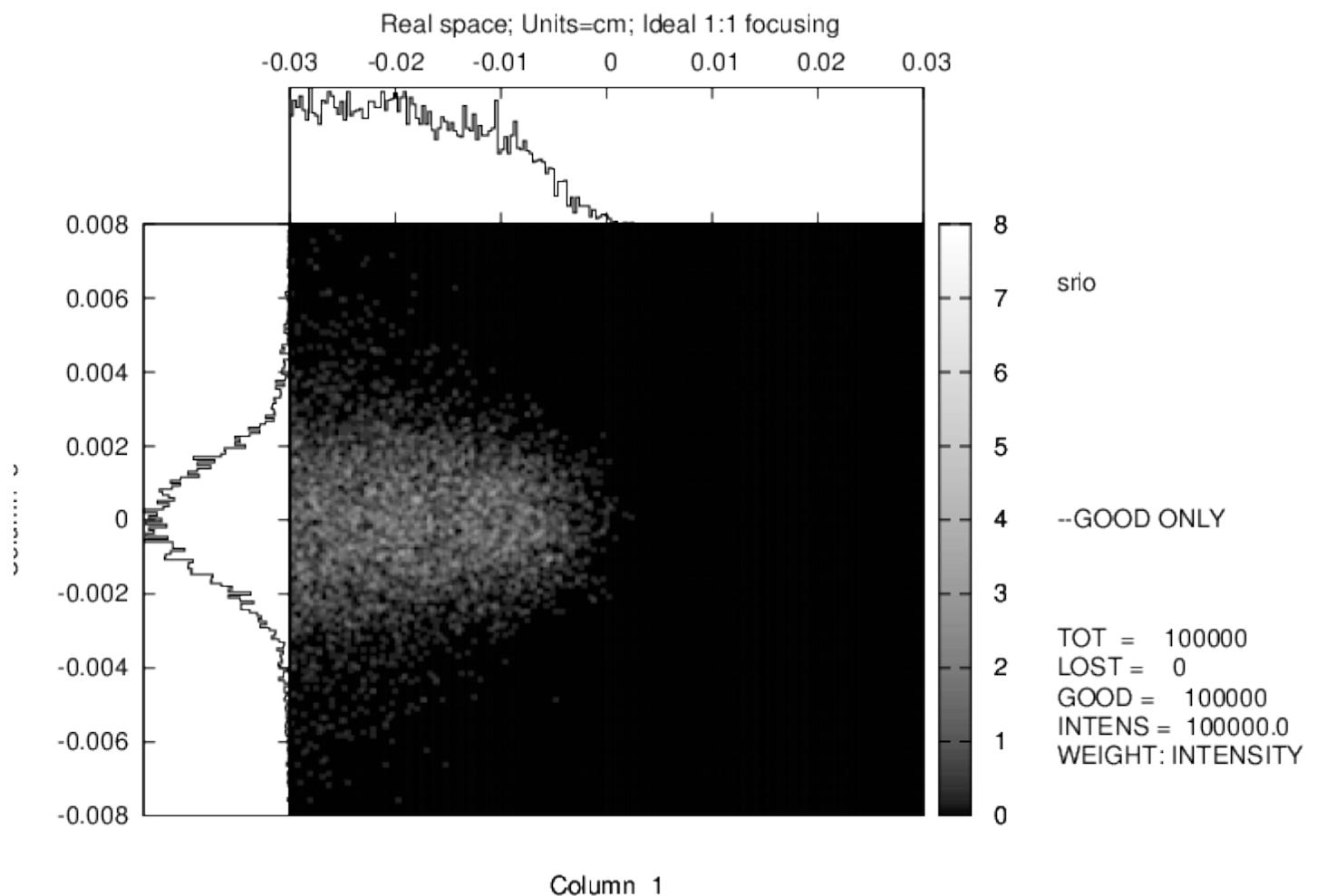


0.10.2.3. Ideal 1:1 focusing

FW25M H: 259.701 um V: 49.353 um

FWHM H: 226.866 um V: 33.433 um

FW75M H: 211.940 um V: 20.697 um



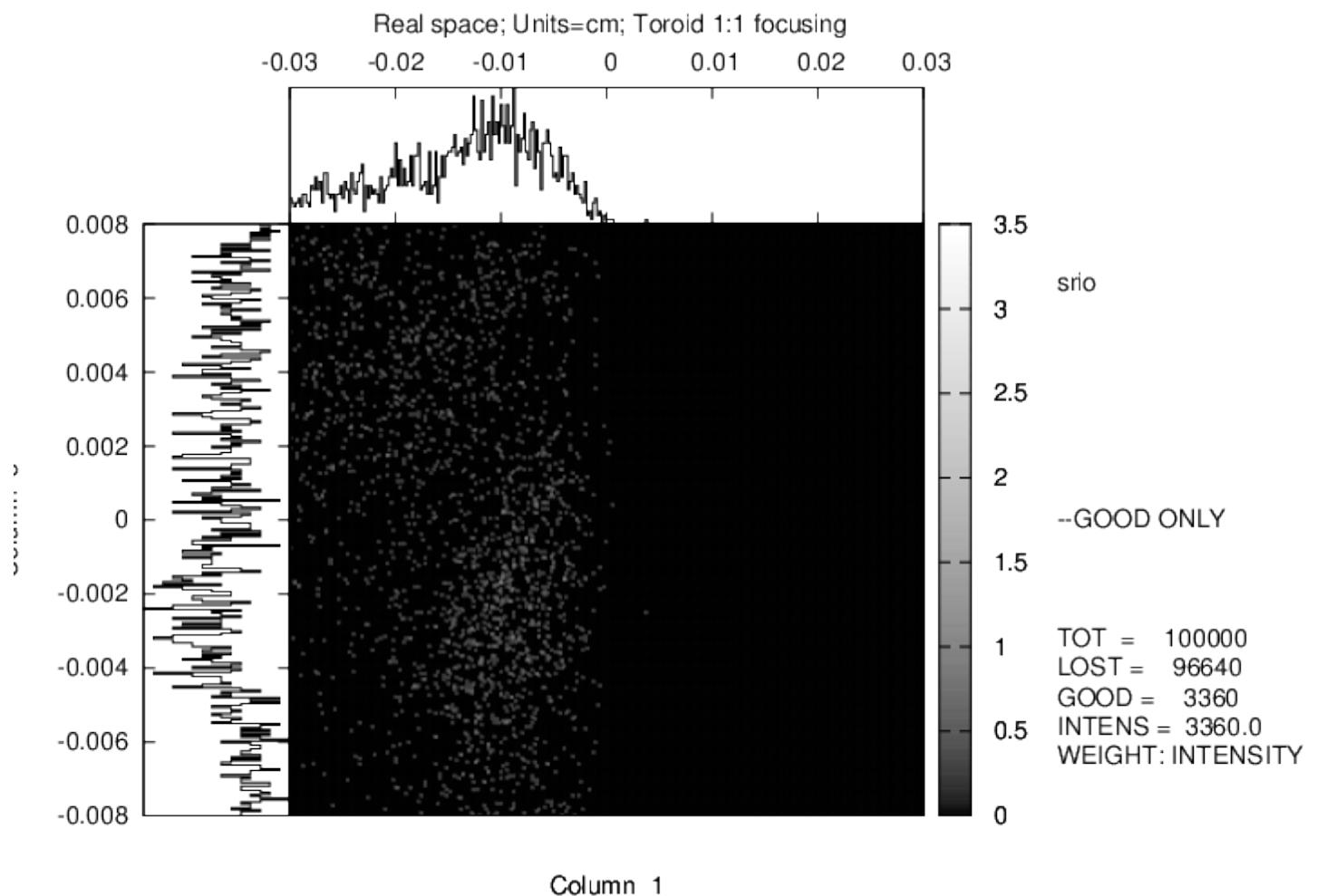
Column 1

0.10.2.4. Toroid 1:1 focusing

FW25M H: 259.136 um V: 157.342 um

FWHM H: 161.462 um V: 125.980 um

FW75M H: 55.814 um V: 83.987 um

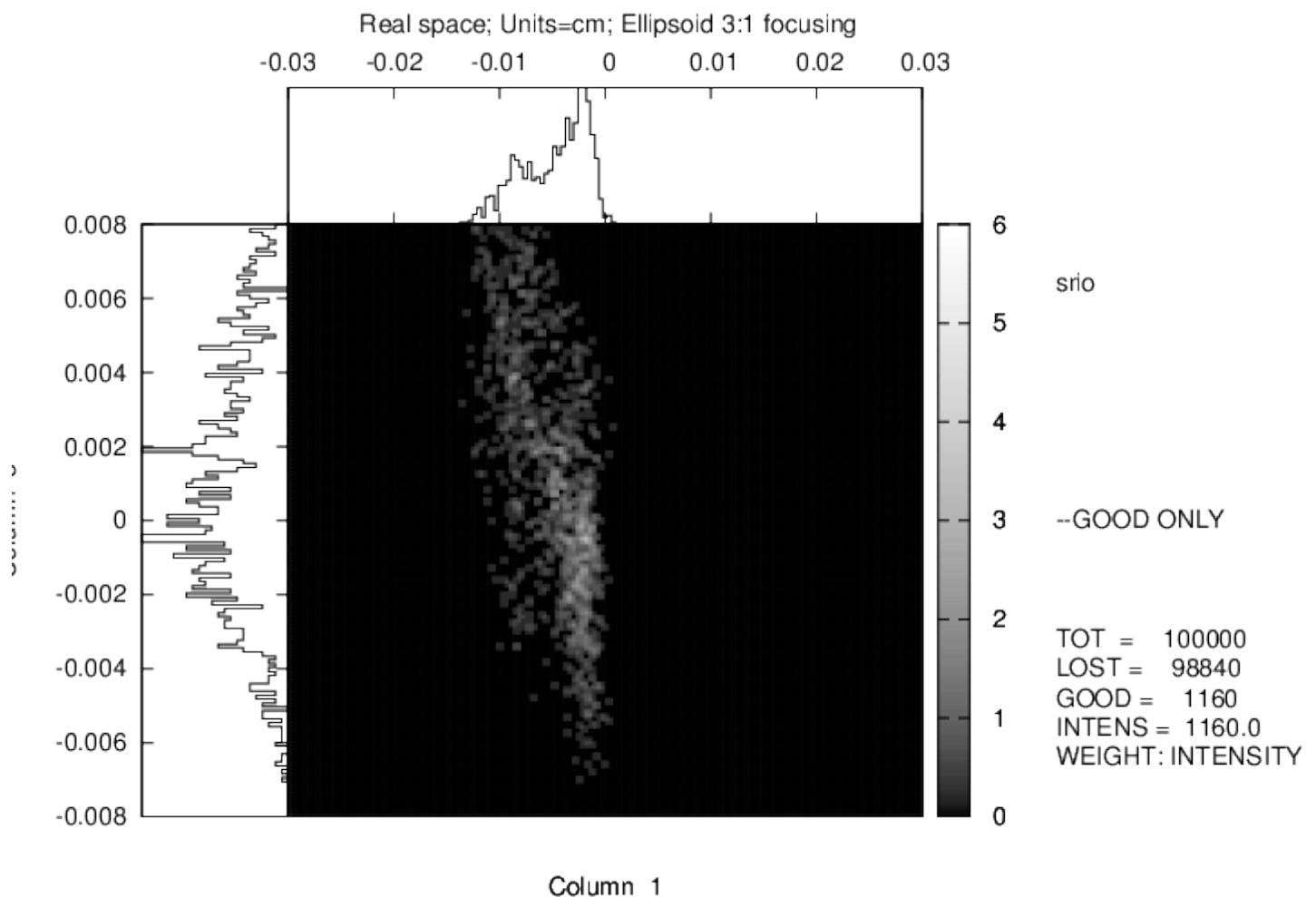


0.10.2.5. Ellipsoid 3:1 focusing

FW25M H: 91.391 um V: 123.974 um

FWHM H: 75.497 um V: 68.874 um

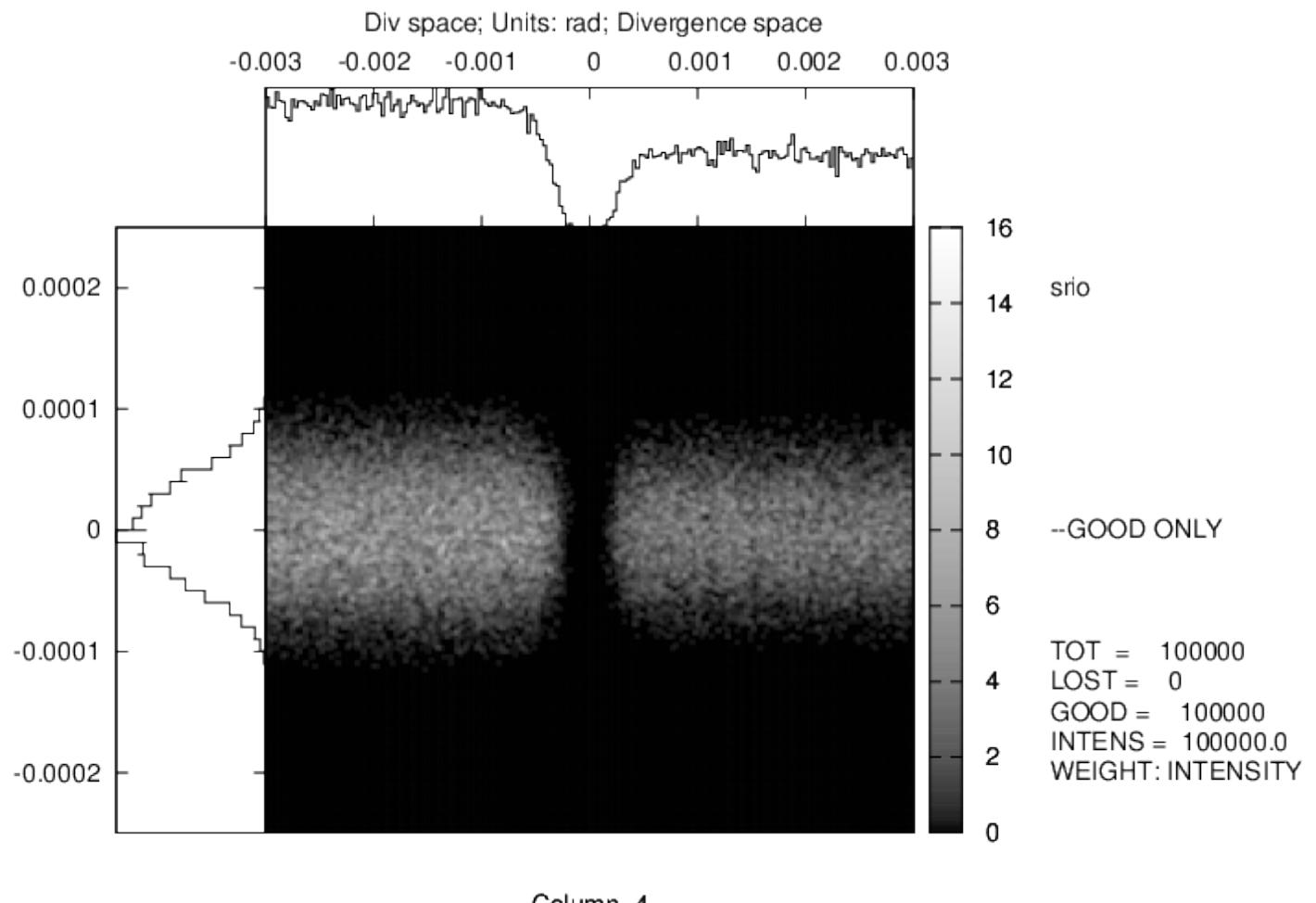
FW75M H: 19.868 um V: 28.609 um



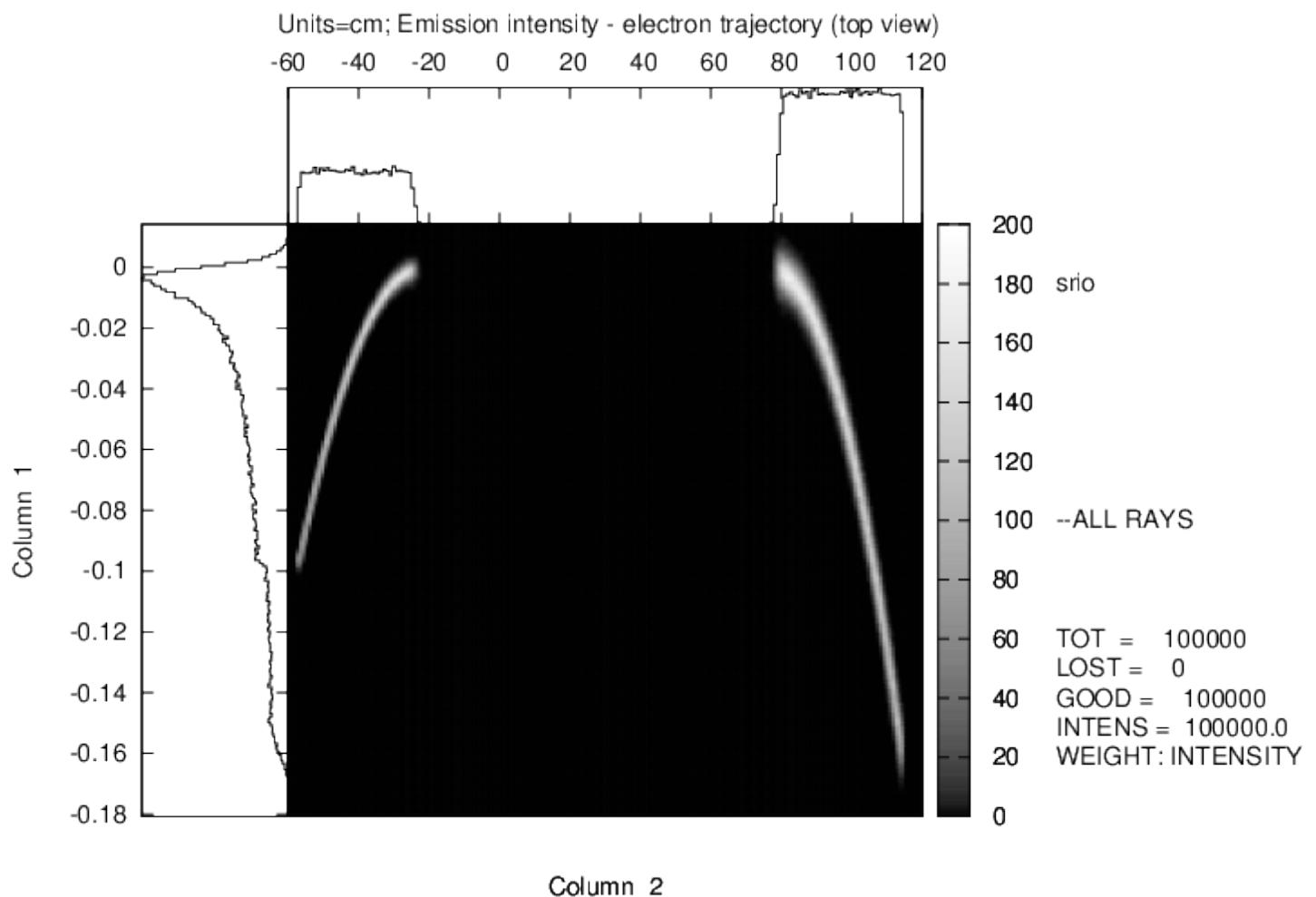
0.10.3. Finite Emittance; magnetic field: 0P; E=20 keV

0.10.3.1. Divergence space

FW25M H: 5970.149 urad V: 124.378 urad
 FWHM H: 5910.448 urad V: 97.015 urad
 FW75M H: 2477.612 urad V: 54.726 urad



0.10.3.2. Emission intensity - electron trajectory (top view)

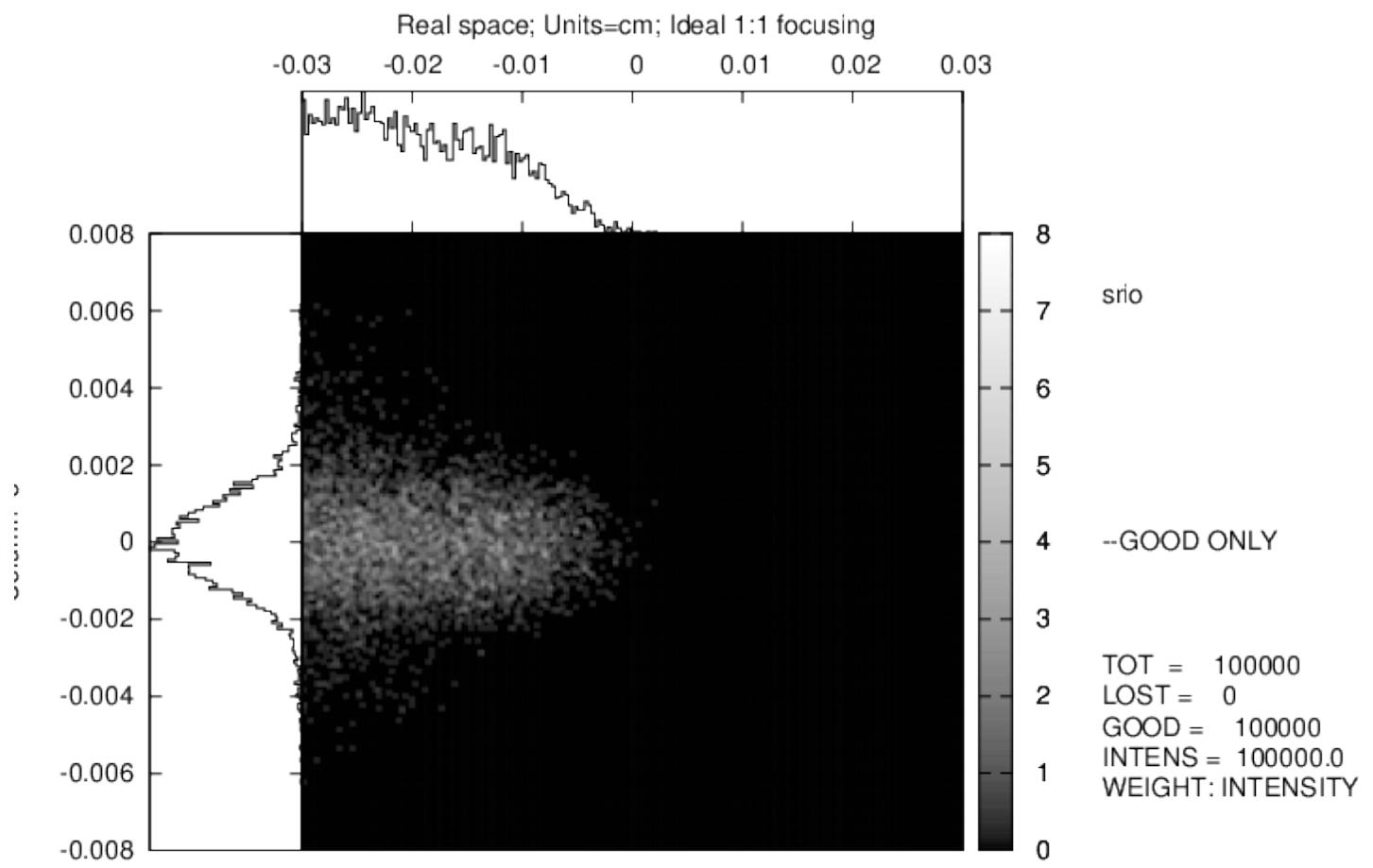


0.10.3.3. Ideal 1:1 focusing

FW25M H: 238.806 um V: 33.433 um

FWHM H: 202.985 um V: 23.881 um

FW75M H: 170.149 um V: 11.144 um



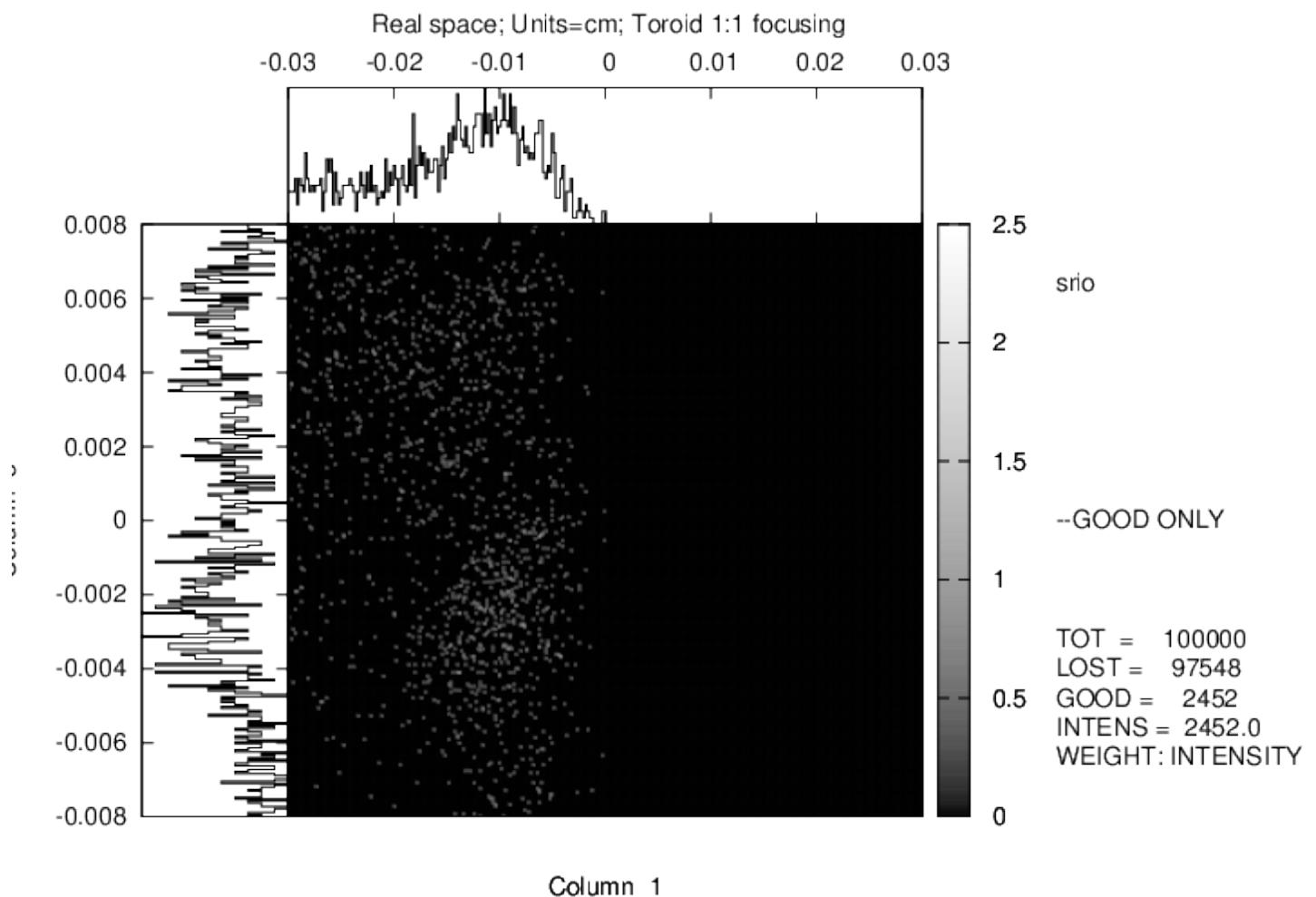
Column 1

0.10.3.4. Toroid 1:1 focusing

FW25M H: 261.130 um V: 158.937 um

FWHM H: 235.216 um V: 125.980 um

FW75M H: 121.595 um V: 100.465 um

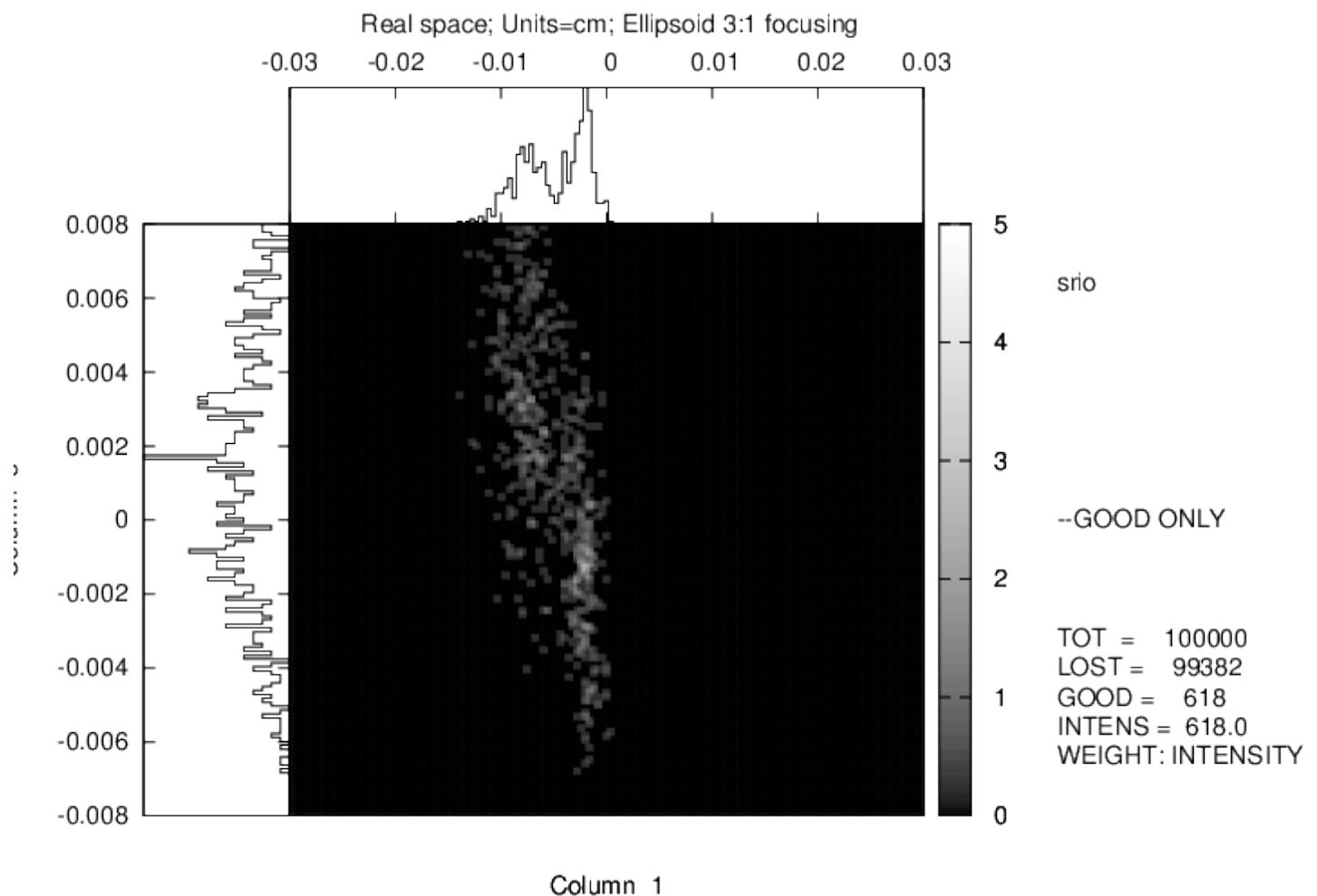


0.10.3.5. Ellipsoid 3:1 focusing

FW25M H: 83.444 um V: 121.854 um

FWHM H: 67.550 um V: 49.801 um

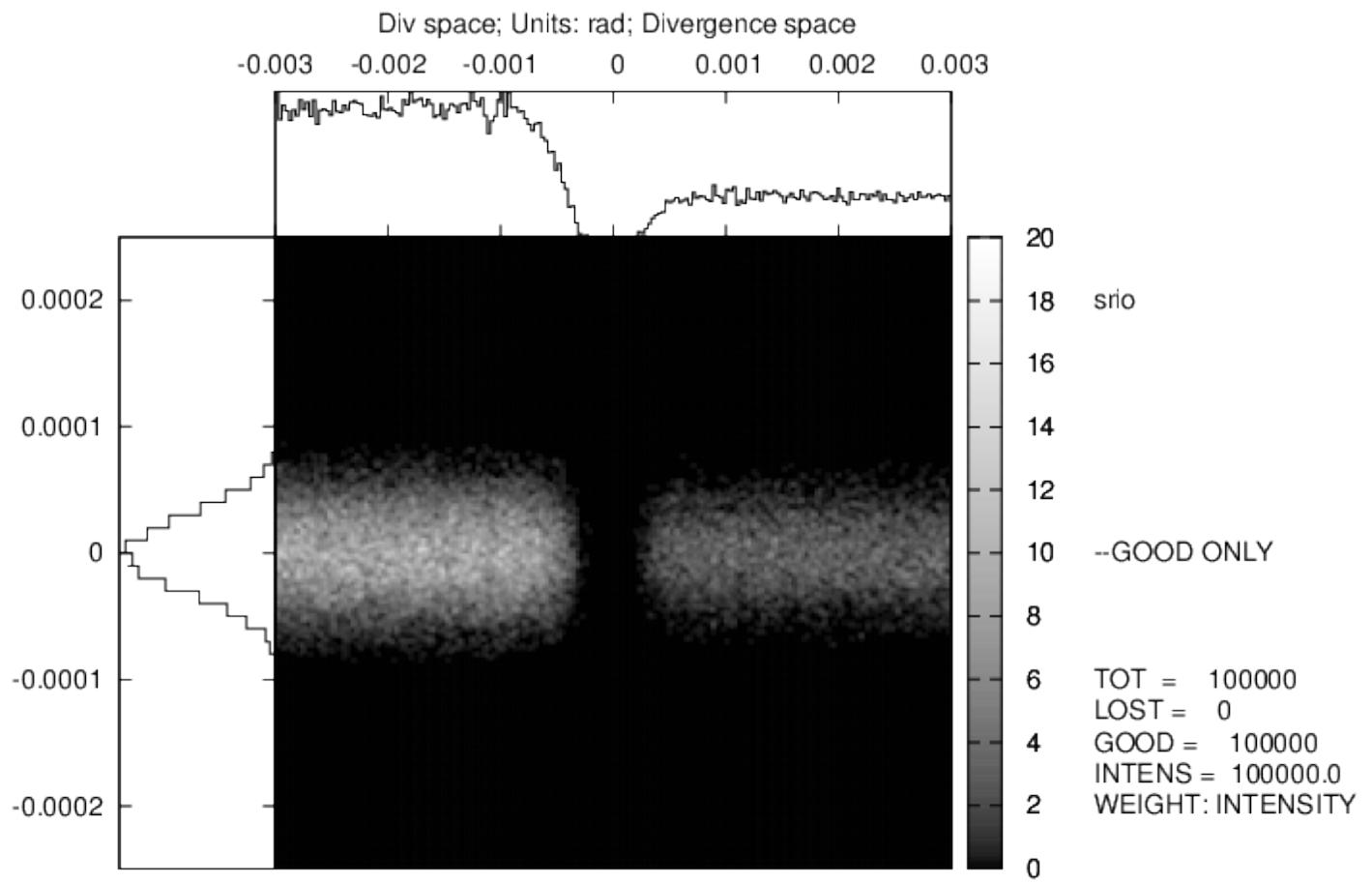
FW75M H: 7.947 um V: -1.000 um



0.10.4. Finite Emittance; magnetic field: 0P; E=40 keV

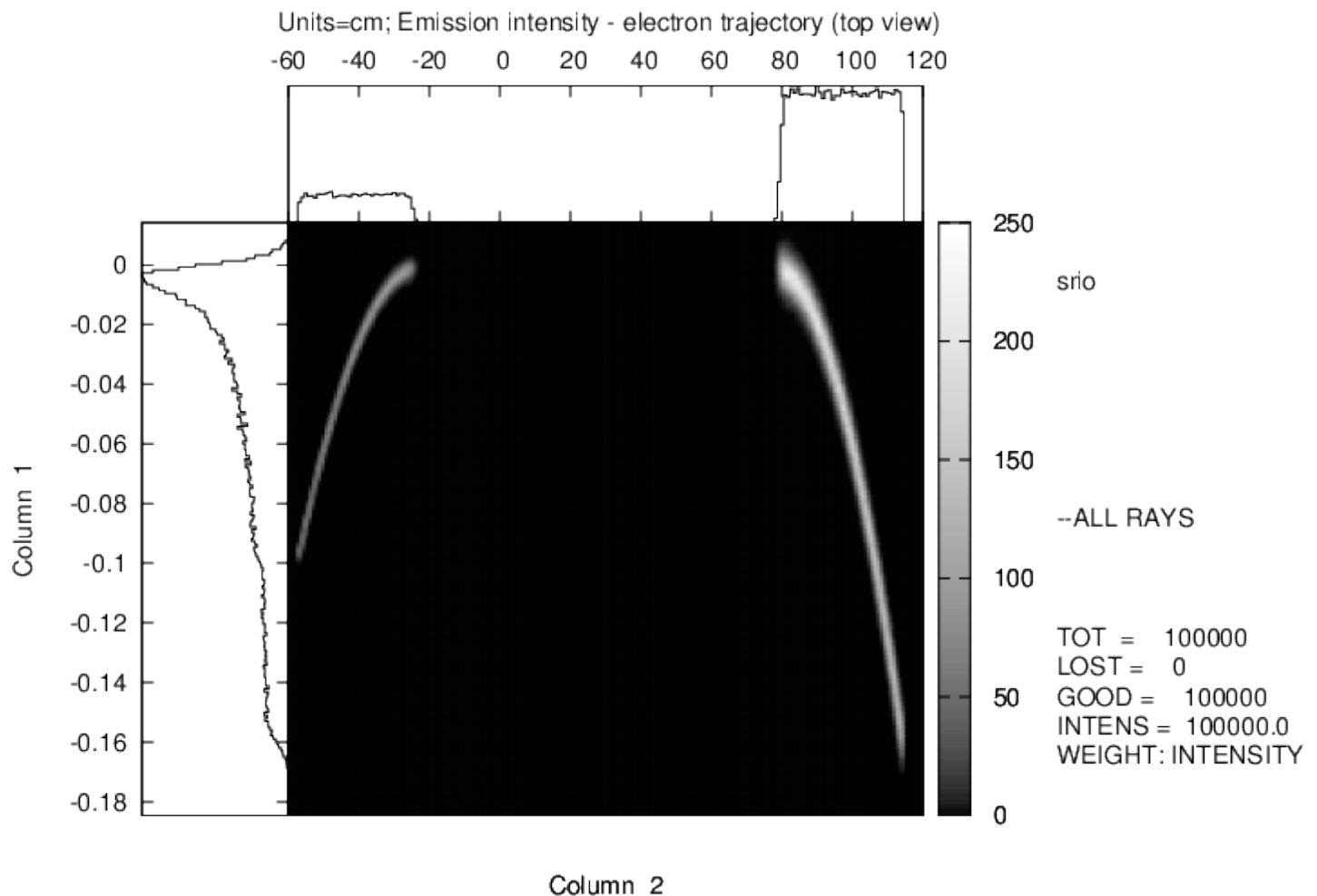
0.10.4.1. Divergence space

FW25M H: 5970.149 urad V: 92.040 urad
 FWHM H: 2507.463 urad V: 64.677 urad
 FW75M H: 2328.358 urad V: 39.801 urad



Column 4

0.10.4.2. Emission intensity - electron trajectory (top view)

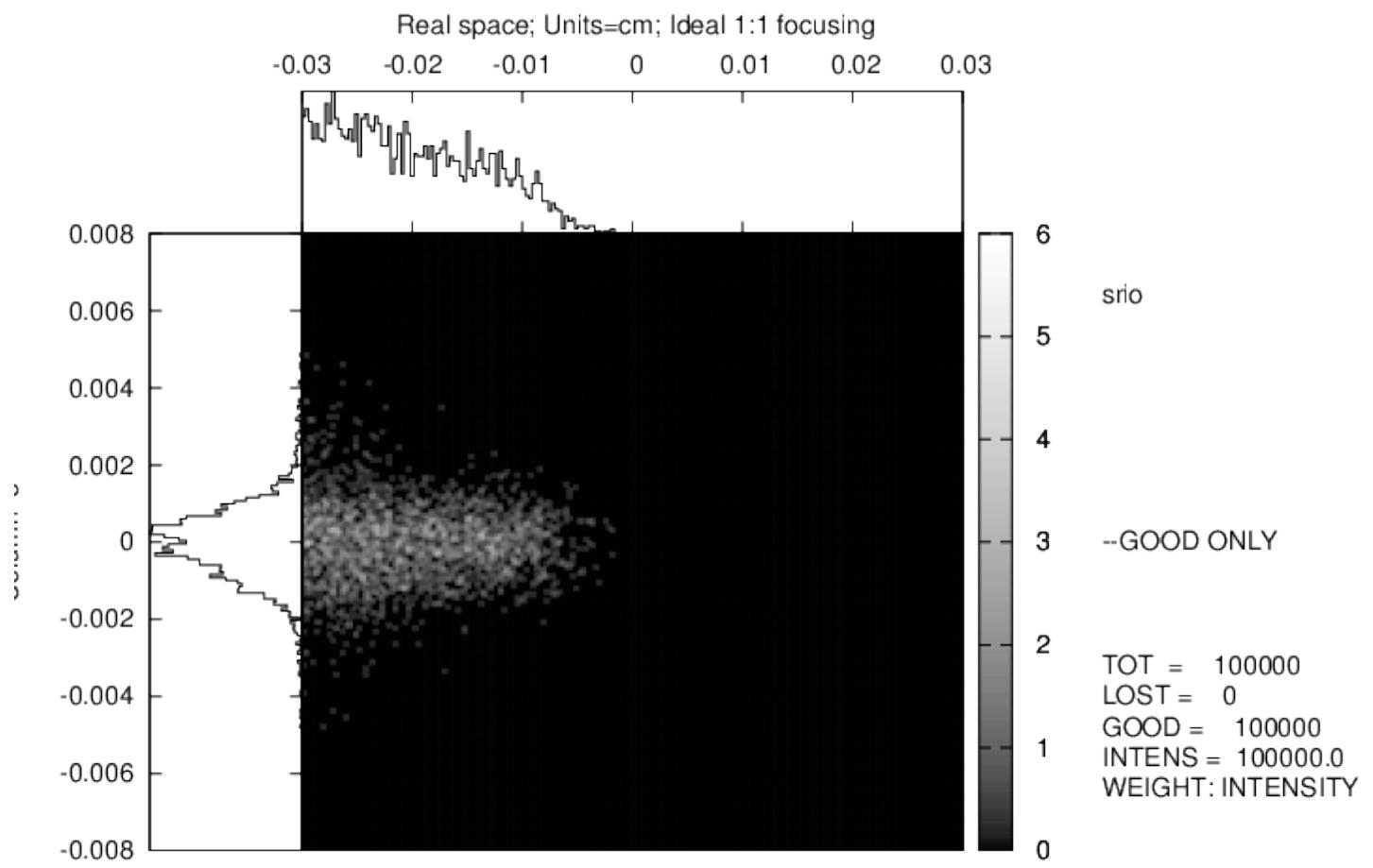


0.10.4.3. Ideal 1:1 focusing

FW25M H: 214.925 um V: 26.269 um

FWHM H: 194.030 um V: 19.104 um

FW75M H: 92.537 um V: 10.348 um



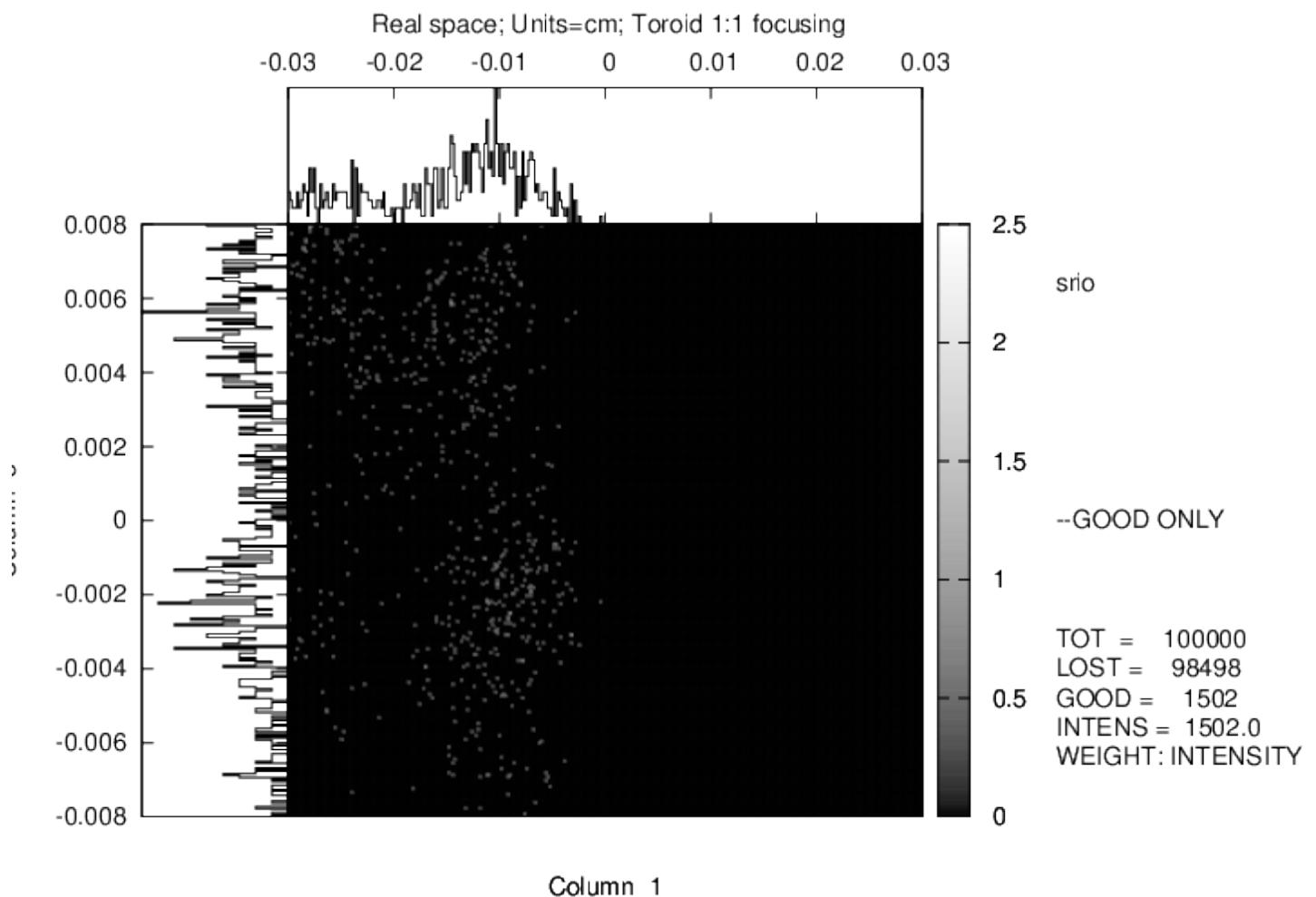
Column 1

0.10.4.4. Toroid 1:1 focusing

FW25M H: 253.156 um V: 148.837 um

FWHM H: 75.748 um V: 114.286 um

FW75M H: 7.973 um V: 90.897 um



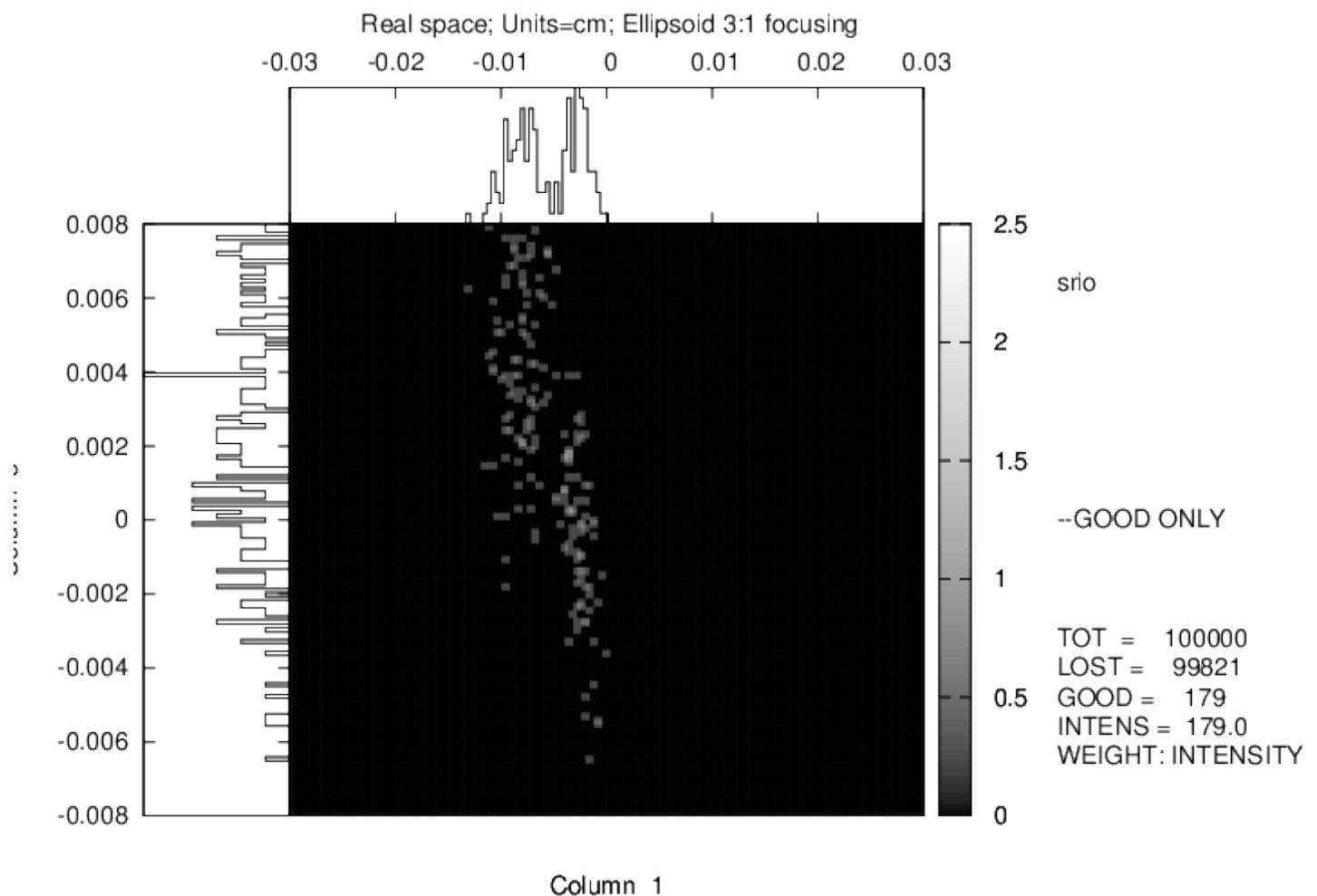
Column 1

0.10.4.5. Ellipsoid 3:1 focusing

FW25M H: 95.364 um V: 109.139 um

FWHM H: 75.497 um V: 99.603 um

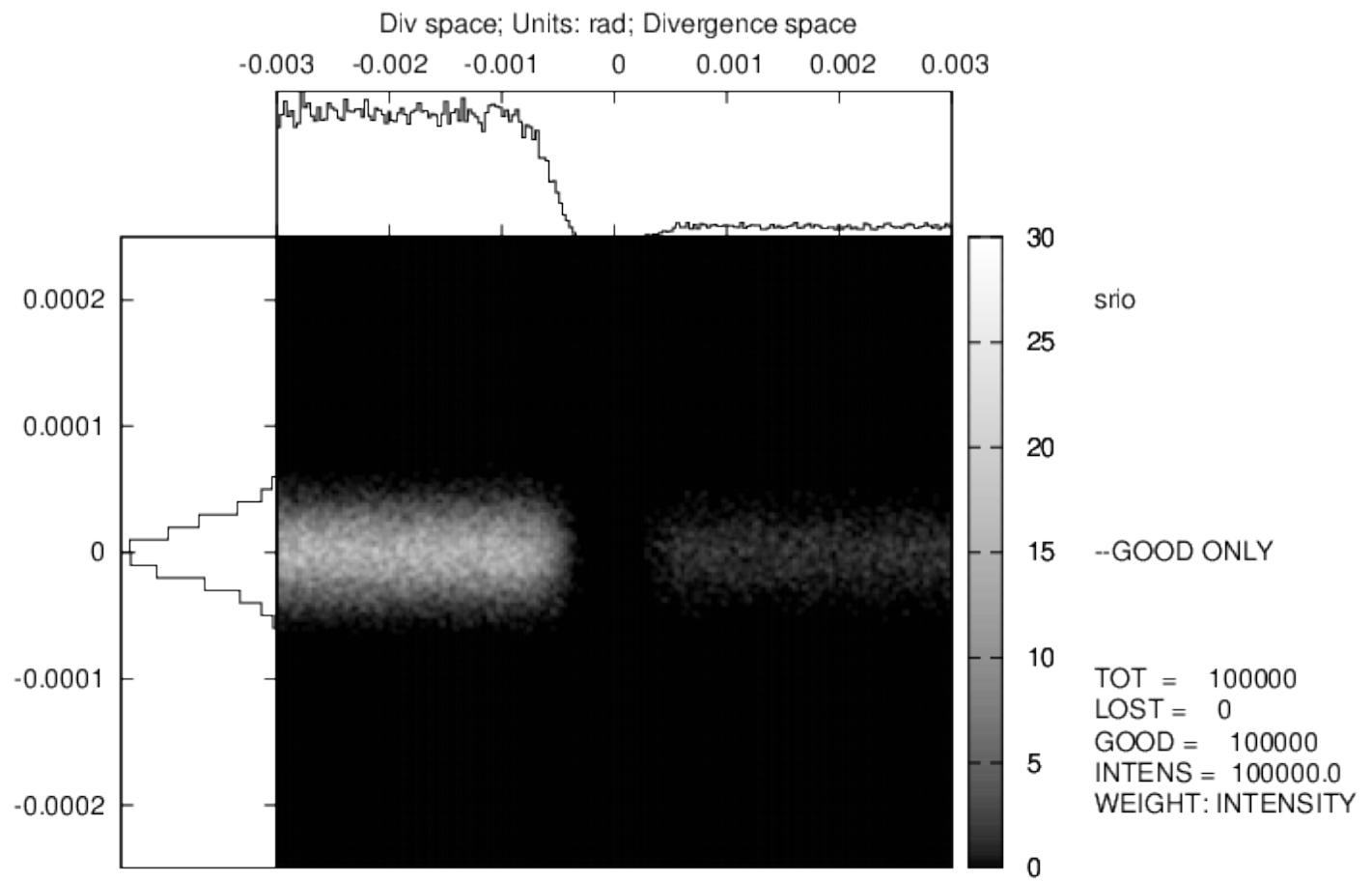
FW75M H: 75.497 um V: -1.000 um



0.10.5. Finite Emittance; magnetic field: 0P; E=80 keV

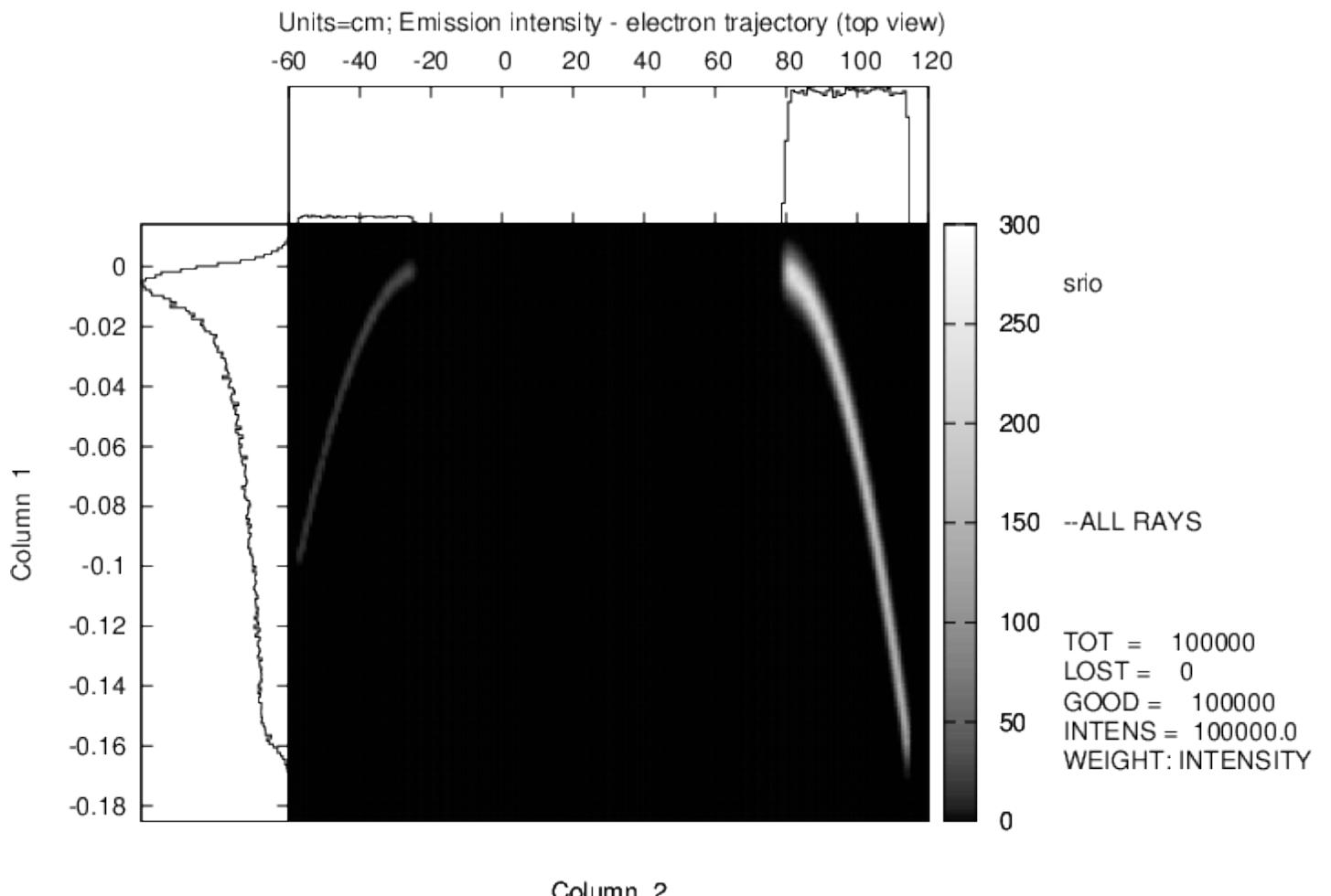
0.10.5.1. Divergence space

FW25M H: 2477.612 urad V: 67.164 urad
 FWHM H: 2388.060 urad V: 44.776 urad
 FW75M H: 2238.806 urad V: 27.363 urad



Column 4

0.10.5.2. Emission intensity - electron trajectory (top view)

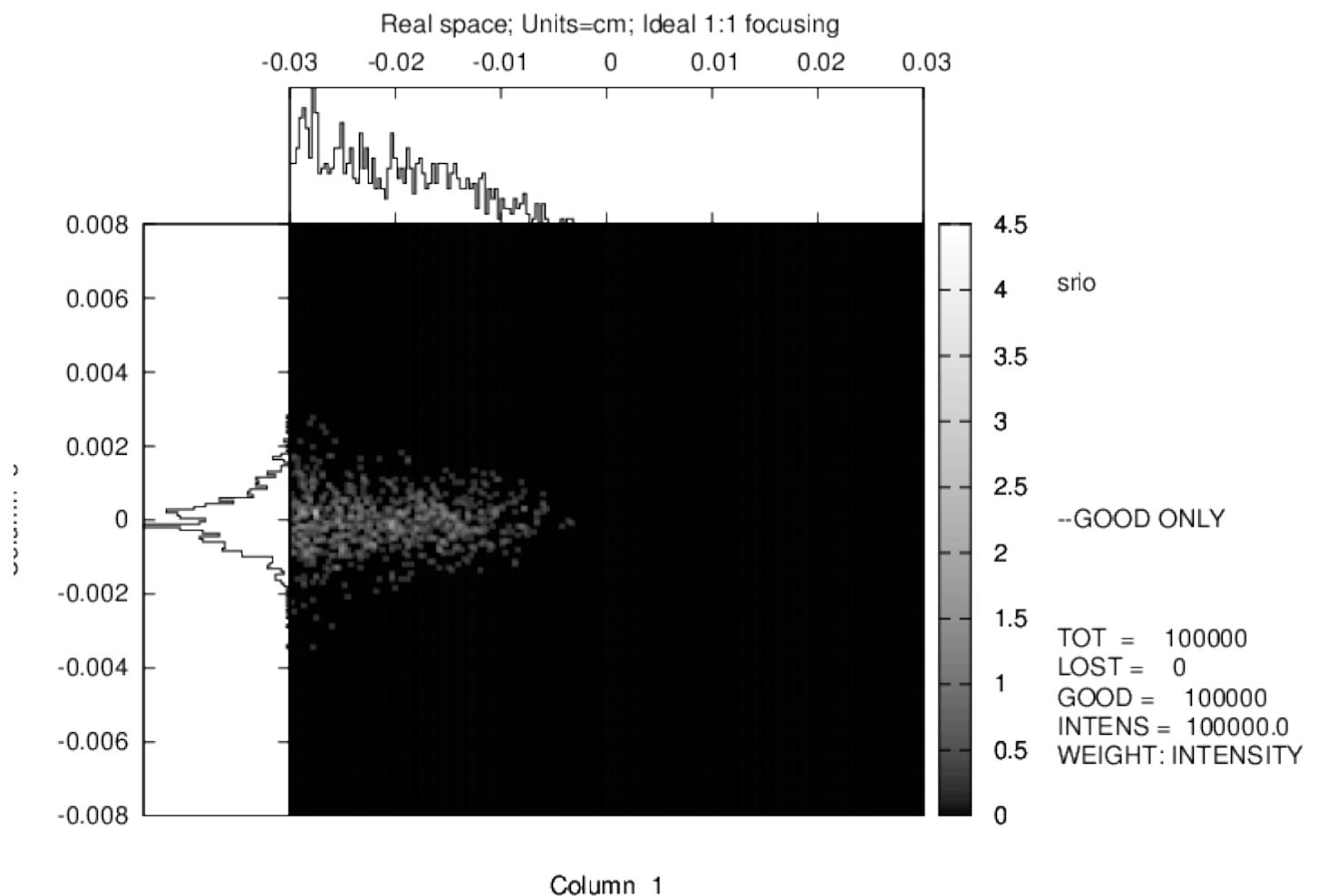


0.10.5.3. Ideal 1:1 focusing

FW25M H: 194.030 um V: 17.512 um

FWHM H: 104.478 um V: 9.552 um

FW75M H: 14.925 um V: 4.776 um



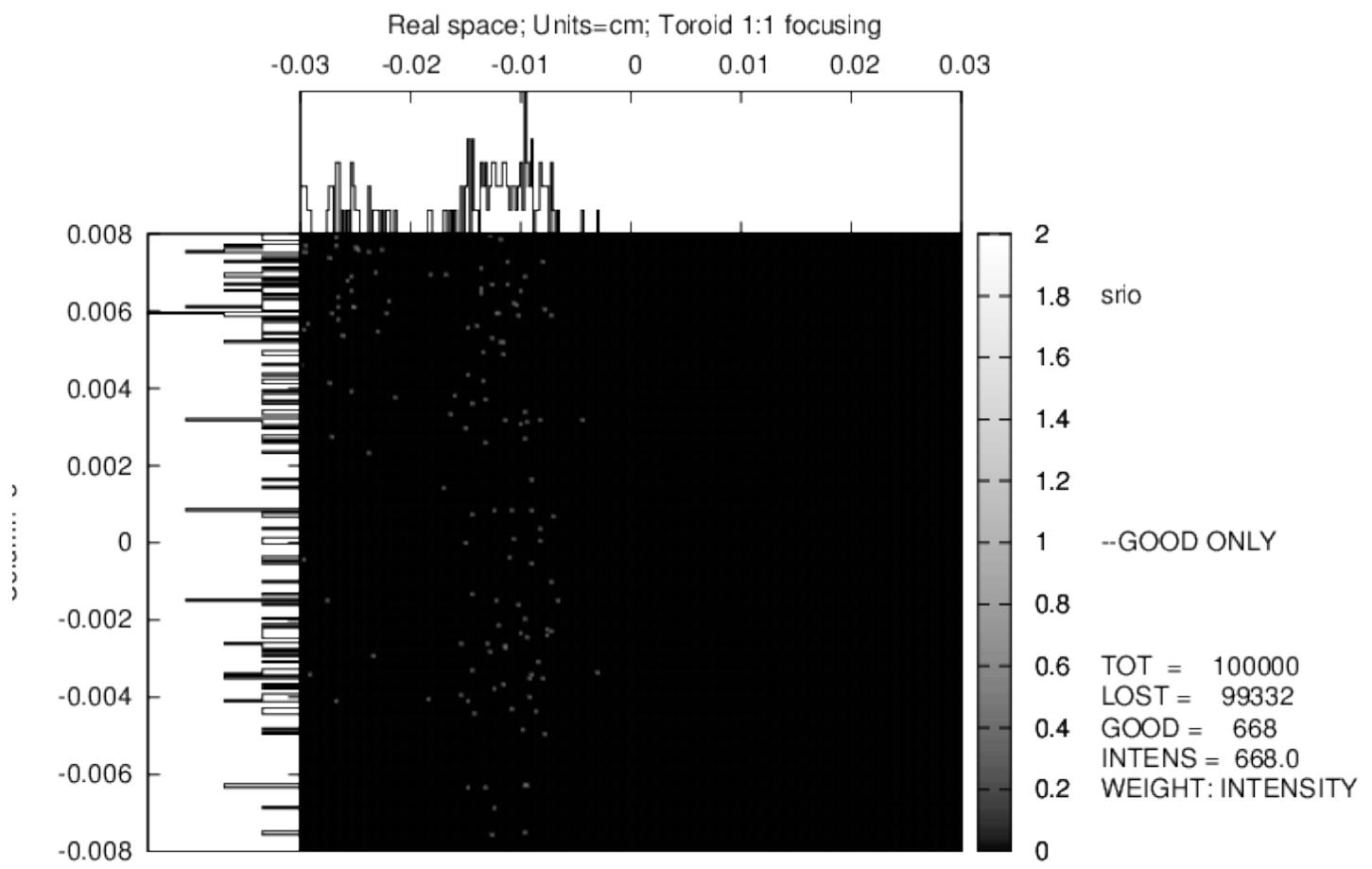
Column 1

0.10.5.4. Toroid 1:1 focusing

FW25M H: 227.243 um V: 154.684 um

FWHM H: 195.349 um V: 140.332 um

FW75M H: -1.000 um V: 90.365 um



Column 1

0.10.5.5. Ellipsoid 3:1 focusing

FW25M H: 107.285 um V: 135.629 um

FWHM H: 75.497 um V: 127.152 um

FW75M H: -1.000 um V: 34.967 um

