

OUTGOING BEAM FROM HWS COLLIMATOR AT ETMX

Beam Widths

Order measured (photos taken)	Closest to Source	Distance downstream from HWS -SOURCE (mm)	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	From collimator 105	105	2964	2976	3396	3478
2	From collimator 128	128	2940	2954	3233	3404
3	From collimator 158	158	2908	2922	3138	3272
8	Reflect off BS, 35mm	448	3118	3082	4702	3781
9	Reflect off BS, 95mm	508	3227	3173	4192	3673
4	From HWP 20mm	606	3329	3328	3394	3210
5	From HWP 95mm	681	4681	4015	5486	4217
6	From HWP 180mm	766	5658	4762	5854	5082
7	From HWP 295mm	881	6661	5517	6274	5487

Closest to Vacuum

Distance	mm
HWS colimator to Mirror 1: 293mm	293
Mirror 1 to HWP (downstream side): 290mm	290
Mirror 1 to BS: 120mm	120

There is no Optics that would change the beam's shape in this path, just steering mirror, BS and HWP.
 The 50% beam measurements (I have photos) showed a more symmetric beam, maybe there was tails making the larger A1 vaules big.

