

RETURN BEAM FROM ALS AT ETMX

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	Downstream From mirror (mm)	Downstream from LPM (mm)		A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal 50% width	A2 vertical 50% width	A1 horizontal D4sigma	A2 vertical D4sigma
	Downstream from HWS-M4								
1	56	3408.8		384	628	224	265	608	658
2	80	3432.8		473	768	243	344	691	785
3	152	3504.8		713	1196	344	762	1015	1214
4	276	3628.8		1097	1963	661	1387	1581	1978
	Swapped mirror position, measuring Downstream of HWS-BS2. (mm)								
5	67	2581.6		3171	3964	1136	2639	3356	4119
6	131	2645.6		2879	3586	1203	2390	3282	3745
7	219	2733.6		2438	3054	1009	2022	2643	3210
8	281	2795.6		2169	2713	873	1797	2347	2888
	Swapped mirror position, measuring upstream of HWS-M3. (mm)								
9	302	2949.2		1429	1784	577	1254	1973	2059
10	208	3043.2		980	1246	378	889	1339	1483
11	152	3099.2		745	942	287	672	1200	1159
12	132	3119.2		654	845	253	615	971	1094

HWS-M3 has been removed.

Distances from <https://alog.ligo-wa.caltech.edu/aLOG/index.php?callRep=62120>

Distances	inches	mm
LPM to ALS-M11	43	1092.2
ALS-M11 to BS2	56	1422.4
BS2 to M3	29	736.6
M3 to M4	4	101.6

