

ALS Outgoing Beam at EX, Taken May 21st 2025

Measurements Taken

Photo	Location	Downstream of EOM	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal 50%	A2 vertical 50%
1	283mm upstream of ALS-L6 (26mm downstream of iris)	867	548	634.4	335.8	365
2	216mm upstream of ALS-L6	934	548	634.4	335.8	364.9
4	34mm downstream of ALS-L6	1184	911.8	1200.7	511.4	736.9
3	212mm downstream of ALS-L6	1362	1671.5	2184.7	936.1	1355.7
5	396mm downstream of ALS-L6	1546	2460.3	3274.7	1411.1	2013.7
6	577mm downstream of ALS-L6	1727	3302.8	4379.9	1872.5	2716
7	275mm upstream of ALS-L7	1865	4044.4	5415.5	2286.6	3415.3
8	165mm downstream of M10	2410	5097	6797	2940	4301
9	148mm downstream of M11	2763	5133	6783	2948	4339

Distances Measured

Distance (mm)	Between Optics					
387	Output of EOM to ALS-L5					
102	ALS-L5 to ALS-M7					
102	ALS-M7 to ALS-M8					
178	ALS-M8 to ALS-M9					
76	ALS-M9 to Iris					
305	Iris to ALS-L6	EOM to ALS-L6				
990	ALS-L6 to ALS-L7	1150	EOM to ALS-L7			
105	ALS-L7 to ALS-M10		2140	EOM to ALS-M10		
370	ALS-M10 to ALS-M11			2245	EOM to ALS-M11	
1067	ALS-M11 to LPM (aprox.)				2615	

Label on L7: "LO R = + 500mm AR 532nm + 1064nm"

Label on L6: "LO R = -100mm AR 532 + 1064nm"

Label on L5: "LO R = +150mm AR 532 + 1064nm"

EX ALS Outgoing Beam Profile

