

OUTGOING BEAM

Beam Widths (um)

Order measured (photos taken)		Distance from ALS lens ALS-L7 (inches) e.g. between L7 and L6	Distance from VP (inches)	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
3	6" upstream of L7	6	90	4738	4344	4644	4359
2	12.5" upstream of L7	12.5	96.5	3938	3571	3885	3601
1	16.5" upstream of L7	16.5	100.5	3452	3079	3411	3119
4	21" upstream of L7	21	105	2891	2580	2860	2605
5	28.5" upstream of L7	28.5	112.5	1845	1609	1818	1621
6	34.5" upstream of L7	34.5	118.5	1188	959	1170	953

RETURN BEAM (with ITMY misaligned)

Beam Widths

Order measured (photos taken)		Distance from HWS mirror ALS-M3 (inches) e.g. between M3 and M4	Distance from VP (inches)	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	3" downstream of M3	3	106.25	2673	3345	2939	3707
2	8" downstream of M3	8	111.25	2235	2902	2502	3198
3	16" downstream of M3	16	119.25	1704	2180	1892	2402
4	21" downstream of M3	21	124.25	1343	1741	1503	1878

Distances in ALS path	Inches between
Edge of table to VP (alog#76056)	24.5
M16 to Edge of table	3
M13 to M16 (questimate)	2
M12 to M13	24
M12 (LPM) to M11	12
M11 to M10	12.5
M10 to L7	6
L7 to L6	38
L6 to M9	14
M9 to M8	7
M8 to M7	3.5
M7 to L5	3.5

Distance between VP and ALS-L7: 84

Distances in HWS path	Inches between
Edge of table to VP (alog#76056)	24.5
M16 to Edge of table	3
M13 to M16 (questimate)	2
M12 to M13	24
M12 (LPM) to M11	12
ALS-M11 to M1A	3.25
M1A to L1	7.25
L1 to L2	23.5
L2 to M2	1.25
M2 to M3	2.5
M3 to M4	26.5
M4 to M5	2.5
M5 to L3	9.75
L3 to source	35

Distance between VP and HWS-M3: 103.25