

Meas 1 [cm] Meas 2 [cm]

Col to NM1	14.5	14.7
NM1 to NM2	14.5	14.3
NM2 to flipper	9.6	9.3
Flipper to MS1	25	24.8
MS1 to BS1	12.5	12.4
BS1 to pol	16.1	16.3
Pol to M4	50	50
M4 to M3	6.5	6.7
M3 to BS2	73.2	73
BS2 to M2	9.8	10
M2 to M1	81.3	81
M1 to M1B	20.6	20.5
M1B to M1A	11.3	11
M1A to PBS (ALS-M11)	14.5	15
Pol to new L3	43	42.5
M2 to OG L2	20.9	20
M1 to OG L1	2.8	3
M3 to new L2	15.4	15.2
M3 to new L1	26.1	26.2

NM'== 'new mirror', mirrors and flipper installed on table to be able to use the OzOptic 532nm eye-safe laser, for testing

New locations refer to proposed new HWS layout, that will allow the OzOptic 532nm eye-safe laser to double-pass through the HWS system without clipping, for proof of concept of design principles, and observation of in-vacuum effects