



IFO	Mirror	CHAMBER	BEAM POSITION, mm									Comment	PATH LENGTH	TRANSMIT HEIGHT	RECEIVE HEIGHT					
			ZEMAX			GLOBAL			LOCAL											
			X	Y	Z	X	Y	Z	X	Y	Z									
	ITMX FOLD	BSC7	665.0	-155.0	37815.0	37815.0	-155.0	-665.0	37815.0	-9524.0	-665.0	Source	397:00:00	OPTLEV	FOLD	ITMX	CTR	IN	1189.2	
			664.3	-154.6	37782.5	37782.5	-154.6	-664.3	37782.5	-9523.6	-664.3	A1-A	VP4						32.5	
			80.7	200.4	9920.7	9920.7	200.4	-80.7	9920.7	-9168.6	-80.7	FOLD_ITMX-RADIUS							27870.2	
			-502.9	555.3	37782.5	37782.5	555.3	502.9	37782.5	-8813.7	502.9	A1-A	VP1						27870.2	
			-503.3	555.6	37800.0	37800.0	555.6	503.3	37800.0	-8813.4	503.3	FLD	OPTLEV	ITMX	OUT				17.5	2357.5
												TOTAL PATH							55790.4	
	OPTLEV																			
	FMX	BSC7	0.0	1124.6	10460.0	10460.0	1124.6	0.0	10460.0	-8244.4	0.0	Source	415:00:00	OPTLEV	FMX	IN			1854.2	
			0.0	1025.6	10361.0	10361.0	1025.6	0.0	10361.0	-8343.4	0.0	FM	OPTLEV	IN/OUT	BSC7	VP5			139.9	
			0.0	820.0	10155.4	10155.4	820.0	0.0	10155.4	-8549.0	0.0	FMX	optlev	periscope	M1				290.8	
			0.0	1032.1	9943.3	9943.3	1032.1	0.0	9943.3	-8336.9	0.0	FMX	optlev	periscope	M2				300.0	
			0.0	145.4	9056.6	9056.6	145.4	0.0	9056.6	-9223.6	0.0	FMX							1254.0	
			1.0	1032.1	9971.2	9971.2	1032.1	-1.0	9971.2	-8336.9	-1.0	FMX	optlev	periscope	M2				1273.9	
			1.2	820.0	10190.1	10190.1	820.0	-1.2	10190.1	-8549.0	-1.2	FMX	optlev	periscope	M1				304.8	
			1.4	1005.4	10381.3	10381.3	1005.4	-1.4	10381.3	-8363.6	-1.4	FM	OPTLEV	IN/OUT	BSC7	VP5			266.3	
			1.5	1144.5	10524.7	10524.7	1144.5	-1.5	10524.7	-8224.5	-1.5	QPD	FMX	OPTLEV					199.8	1852.7
																			4029.6	
	OPTLEV																			
	ITMYFOLD	BSC8	665.0	37815.0	-155.0	-155.0	37815.0	-665.0	-9524.0	37815.0	-665.0	Source	431:00:00	OPTLEV	FOLD	ITMY	CTR	IN	1189.2	
			664.1	37773.0	-154.5	-154.5	37773.0	-664.1	-9523.5	37773.0	-664.1	A1-B	VP3						42.0	
			80.2	9897.7	200.7	200.7	9897.7	-80.2	-9168.3	9897.7	-80.2	FOLD_ITMY-RADIUS							27883.7	
			-503.7	37773.0	555.8	555.8	37773.0	503.7	-8813.2	37773.0	503.7	A1-B	VP6						27883.7	
			-504.2	37800.0	556.2	556.2	37800.0	504.2	-8812.8	37800.0	504.2	FLD	OPTLEV	ITMY	OUT				27.0	2358.4
												TOTAL PATH							55836.4	
	OPTLEV																			
	FMY	BSC8	0.0	10460.0	1124.6	1124.6	10460.0	0.0	-8244.4	10460.0	0.0	Source	445:00:00	OPTLEV	FMY	IN			1854.2	
			0.0	10361.0	1025.6	1025.6	10361.0	0.0	-8343.4	10361.0	0.0	FM	OPTLEV	IN/OUT	BSC8	VP5			139.9	
			0.0	10155.4	820.0	820.0	10155.4	0.0	-8549.0	10155.4	0.0	FMY	optlev	periscope	M1				290.8	
			0.0	9943.3	1032.1	1032.1	9943.3	0.0	-8336.9	9943.3	0.0	FMY	optlev	periscope	M2				300.0	1854.2
			0.0	9057.3	146.2	146.2	9057.3	0.0	-9222.8	9057.3	0.0	FMY							1252.9	
			1.0	9965.8	1032.1	1032.1	9965.8	-1.0	-8336.9	9965.8	-1.0	FMY	optlev	periscope	M2				1269.0	
			1.2	10183.4	820.0	820.0	10183.4	-1.2	-8549.0	10183.4	-1.2	FMY	optlev	periscope	M1				303.8	
			1.4	10377.4	1009.3	1009.3	10377.4	-1.4	-8359.7	10377.4	-1.4	FM	OPTLEV	IN/OUT	BSC8	VP5			271.1	
			1.6	10520.5	1148.7	1148.7	10520.5	-1.6	-8220.3	10520.5	-1.6	QPD	FMY	OPTLEV					199.8	
																			4027.4	
	OPTLEV																			
	ETMX	BSC5	670.0	-160.0	72876.7	72876.7	-160.0	-670.0	-3493.4	-160.0	-670.0	Source	592:00:00	OPTLEV	ETMX	H2	CTR	IN	1184.2	
			663.2	-155.8	72911.7	72911.7	-155.8	-663.2	-3458.4	-155.8	-663.2	A-7A	VP3						35.9	
			83.0	201.5	75920.7	75920.7	201.5	-83.0	-449.3	201.5	-83.0	FOLD-ETMX-RADIUS							3085.2	
			-497.7	559.3	72911.7	72911.7	559.3	497.7	-3458.4	559.3	497.7	A-7A	VP6						3085.4	
			-499.7	560.5	72901.7	72901.7	560.5	499.7	-3468.4	560.5	499.7	OPTLEV	ETMX	H2	OUT				10.3	2353.9
																			6216.8	1854.2
	PHOTCAL1																			
	ETMX	BSC5	0.0	-724.0	72906.7	72906.7	-724.0	0.0	-3463.4	-724.0	0.0	Source	597:00:00	PHOTCAL1	ETMX	H2	IN			
			0.3	-722.5	72911.7	72911.7	-722.5	-0.3	-3458.4	-722.5	-0.3	A-7A	VP2						5.2	1853.9
			191.3	199.1	75920.7	75920.7	199.1	-191.3	-449.3	199.1	-191.3	FOLD-ETMX-RADIUS							3152.8	
			313.9	790.7	73991.1	73991.1	790.7	-313.9	-2378.9	790.7	-313.9	PERI1-1	PHOTCAL	ETMX					2022.0	
			313.8	688.6	74022.5	74022.5	688.6	-313.8	-2347.5	688.6	-313.8	PERI1-2	PHOTCAL	ETMX					106.8	
			0.4	734.0	72911.7	72911.7	734.0	-0.4	-3458.4	734.0	-0.4	A-7A	VP5						1155.1	
			-2.4	734.4	72901.7	72901.7	734.4	2.4	-3468.4	734.4	2.4	PHOTCAL	ETMX	H2	OUT				10.4	1856.6
																			6452.3	
	PHOTCAL2																			
	ETMX	BSC5	0.0	-800.0	72906.7	72906.7	-800.0	0.0	-3463.4	-800.0	0.0	Source	598:00:00	PHOTCAL2	ETMX	H2	IN			1854.2
			-0.1	-798.3	72911.7	72911.7	-798.3	0.1	-3458.4	-798.3	0.1	A-7A	VP2						5.3	
			-31.8	199.0	75920.7	75920.7	199.0	31.8	-449.3	199.0	31.8	FOLD-ETMX-RADIUS							3170.2	
			-52.3	840.7	73986.4	73986.4	840.7	52.3	-2383.6	840.7	52.3	PERI2-1	PHOTCAL	ETMX					2038.1	
			-53.8	689.6	74019.5	74019.5	689.6	53.8	-2350.5	689.6	53.8	PERI2-2	PHOTCAL	ETMX					154.7	
			-5.5	792.4	72911.7	72911.7	792.4	5.5	-3458.4	792.4	5.5	A-7A	VP5						1113.7	
			-5.1	793.3	72901.7	72901.7	793.3	5.1	-3468.4	793.3	5.1	PHOTCAL	ETMX	H2	OUT				10.1	1859.3

