

B mirror selection

SN #	Measurement [div]	Measurement [arcsec]	Note	
B1	-0.9	-27.	good	BS2 QPD
B2	-0.6	-18.	good	
B3	0.0	27.	good	
B4	0.7	21.	good	
B5	1.1	33.		
B6	-0.6	-18.	good	BS3 DCPD
B7	1.8	54.		
B8	-1.1	-33.		
B9	1.8	54.		
B10	1.2	36.		
B11	-1.7	-51.		
B12	1.1	33.		

Table 6: Perpendicularity measurement for the Mirror Bs.

Prism Mirror B	
SN	Location
B 1	
B 2	
B 3	OMC(001) BS2 (QPD)
B 4	
B 5	OMC(003) BS2 (QPD)
B 6	
B 7	OMC(001) BS3 (DCPD)
B 8	
B 9	OMC(002) BS2 (QPD)
B 10	OMC(002) BS3 (DCPD)
B 11	
B 12	OMC(003) BS3 (DCPD)

Table 22: List and location for Mirror A & B

SN #	Power readings			Optical property		
	Incident [mW]	Trans. [μ W]	Refl [mW]	Trans	Refl	Loss
B1	39.10 \pm 0.05	19.65 \pm 0.05	19.25 \pm 0.05	0.503 \pm 0.001	0.492 \pm 0.001	0.005 \pm 0.002
B2	39.80 \pm 0.05	19.90 \pm 0.05	19.70 \pm 0.05	0.500 \pm 0.001	0.495 \pm 0.001	0.005 \pm 0.002
B3	13.87 \pm 0.05	7.05 \pm 0.05	6.55 \pm 0.05	0.508 \pm 0.004	0.472 \pm 0.004	0.019 \pm 0.005
B4	39.50 \pm 0.05	19.70 \pm 0.05	19.30 \pm 0.05	0.499 \pm 0.001	0.489 \pm 0.001	0.013 \pm 0.002
B5	39.50 \pm 0.05	19.70 \pm 0.05	19.50 \pm 0.05	0.499 \pm 0.001	0.494 \pm 0.001	0.008 \pm 0.002
B6	39.55 \pm 0.05	19.50 \pm 0.05	19.95 \pm 0.05	0.493 \pm 0.001	0.504 \pm 0.001	0.003 \pm 0.002
B7	40.10 \pm 0.05	19.80 \pm 0.05	20.20 \pm 0.05	0.494 \pm 0.001	0.504 \pm 0.001	0.002 \pm 0.002
B8	40.15 \pm 0.05	19.80 \pm 0.05	20.20 \pm 0.05	0.493 \pm 0.001	0.503 \pm 0.001	0.004 \pm 0.002
B9	40.10 \pm 0.05	19.90 \pm 0.05	19.90 \pm 0.05	0.496 \pm 0.001	0.496 \pm 0.001	0.008 \pm 0.002
B10	40.10 \pm 0.05	19.70 \pm 0.05	20.30 \pm 0.05	0.491 \pm 0.001	0.506 \pm 0.001	0.002 \pm 0.002
B11	40.20 \pm 0.05	19.80 \pm 0.05	20.20 \pm 0.05	0.493 \pm 0.001	0.502 \pm 0.001	0.005 \pm 0.002
B12	40.20 \pm 0.05	19.90 \pm 0.05	20.20 \pm 0.05	0.495 \pm 0.001	0.502 \pm 0.001	0.002 \pm 0.002

Table 11: Mirror transmission measurement for Mirror B. These numbers should be compared with the specification request (T=50+/-2 %) and the data sheet spec (T=50.385%). Note that only B3 was measured before the improvement of the measurement setup.

B6 DCPD BS best loss
 B1 QPD OK perpendicularity, good loss