Table 1: BEAST Telescope

	Config. A	Config. B	Config. C
Primary Mirror			
Focal length, OV_P (mm)	1250.00	1250.00	1250.00
Major Axis, AC (mm)	2200.00	2200.00	2200.00
Projected Aperture, $y_C - y_A$ (mm)	1966.08	1966.08	1966.08
Incidence Angle, $2p$	51.43°	53.04°	51.53°
y_A (mm)	272.16	272.16	272.16
z_A (mm)	-1235.19	-1235.19	-1235.19
y_B (mm)	1203.87	1245.65	1206.54
z_B (mm)	-960.14	-938.67	-958.85
y_C (mm)	2238.24	2238.24	2238.24
z_C (mm)	-248.05	-248.05	-248.05
Secondary Mirror			
Semi-major axis, a (mm)	600.00	600.00	600.00
Semi-minor axis, b (mm)	575.41	562.05	569.79
Focal length, f (mm)	170.00	210.00	188.00
Eccentricity, e	0.28333	0.35000	0.31333
Incidence Angle, $2i$	32.43°	40.04°	34.17°
y_D (mm)	-114.92	-95.33	-96.07
z_D (mm)	467.31	432.64	435.99
y_E (mm)	-445.55	-442.39	-415.72
z_E (mm)	355.35	332.83	330.38
y_G (mm)	-649.88	-669.79	-629.16
z_G (mm)	112.36	74.23	78.46
y_F (mm)	-240.42	-296.98	-215.66
z_F (mm)	-240.42	-296.98	-308.00
Flat Mirror			
Diameter, MK (mm)	2600.00	2600.00	2600.00
Telescope			
Central feed to secondary axis angle, 2α	64.00°	58.00°	52.40°
Primary axis to secondary axis angle, 2β	45.00°	45.00°	35.00°