

**THIS SECTION UPDATED: 9/21/11**

From Dwg. 67165-E-00001 R0 plus review of numerous detector group reports.

	Z Relative to FP on Beam Axis (center unless noted otherwise) (mm)	Length $\Delta Z$ (mm)	Z_min (mm)	Z_max (mm)	Vertical CL Rel. to Principle Ray ("Beamline")	Active Area					
						Size ( $\Delta Y$ ) (mm)	Horizontal Y_min (mm) (RIGHT)    Y_max (mm) (LEFT)		Size ( $\Delta X$ ) (mm)	"Vertical" * X_min (TOP)    X_max (mm) (BOTTOM)	
NG Cerenkov	-1766.6	2300.0	-2916.6	-616.6							
NGC Entrance	-2916.6	0.0									
NGC Mirrors (guess)	-848.6	200.0				800.0	-400.0	400.0	800.0	-400.0	400.0
NGC Exit	-616.6	0.0									
DC1	-400.0	130.0	-465.0	-335.0	50.0	800.0	-400.0	400.0	800.0	-350.0	450.0
DC2	400.0	130.0	335.0	465.0	50.0	800.0	-400.0	400.0	800.0	-350.0	450.0
S1 Frame	563.5	180.0	473.5	653.5	50.0						
S1X paddles †					50.0	900.0	-450.0	450.0	980.0	-440.0	540.0
S1Y paddles †					50.0	980.0	-490.0	490.0	900.0	-400.0	500.0
HGC	1376.2	1300.0	726.2	2026.2	50.0						
HGC Entrance	726.2	0.0			50.0						
HGC Mirrors (approx)	1794.2	200.0			50.0	900.0	-450.0	450.0	1100.0	-500.0	600.0
HGC Exit	2026.2	0.0			50.0						
AC1	2200.8	300.0	2050.8	2350.8	50.0	600.0	-300.0	300.0	900.0	-400.0	500.0
AC2	2500.8	300.0	2350.8	2650.8	50.0	600.0	-300.0	300.0	900.0	-400.0	500.0
S2 Frame	2763.5	180.0	2673.5	2853.5	50.0						
S2X paddles †					50.0	1100.0	-550.0	550.0	1335.0	-617.5	717.5
Q2Y bars †					50.0	1055.0	-527.5	527.5	1150.0	-525.0	625.0
PS front of glass *	2926.4	100.0			0.0	1400.0	-700.0	700.0	1400.0	-700.0	700.0
SH front of glass *	3064.4	500.0			0.0	1260.0	-630.0	630.0	1440.0	-720.0	720.0

\* Note 1: PS and SH are rotated +2° around the Y axis, at 16.4° from vertical. Other detectors are at 18.4° from vertical. Central ray is 18.4° from horizontal. "Vertical" dimensions shown

† Note 2: Scintillator paddles are each only 5mm thick, but evens/odds are offset in Z so the overall plane is thicker than a paddle. Quartz bars are each 25mm thick and are also offset.