

**THIS SECTION UPDATED: 4/5/12**

From Dwg. 67165-E-00001 R0 plus review of numerous detector group reports.  
 4/5/12: Detectors are now centered on the central ray.

	Z Relative to FP on Beam Axis (center unless noted otherwise) (mm)				Length ΔZ (mm)	Z_min (mm)	Z_max (mm)	Vertical CL Rel. to Principle Ray ("Beamline")	Active Area						
	Size (ΔY) (mm)	Horizontal Y_min (mm) (RIGHT) Y_max (mm) (LEFT)		Size (ΔX) (mm)					"Vertical" * X_min (TOP) X_max (BOTTOM)						
NG Cerenkov	-1766.6	2300.0	-2916.6	-616.6											
NGC Entrance	-2916.6	0.0													
NGC Mirrors (guess)	-891.6	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			0.0		<b>800.0</b>	-400.0	400.0	<b>800.0</b>	-400.0	400.0	
DC2	400.0	130.0	335.0	465.0			0.0		<b>800.0</b>	-400.0	400.0	<b>800.0</b>	-400.0	400.0	
S1 Frame	563.5	180.0	473.5	653.5			0.0								
S1X paddles †							0.0		<b>900.0</b>	-450.0	450.0	980.0	-490.0	490.0	
S1Y paddles †							0.0		980.0	-490.0	490.0	<b>900.0</b>	-450.0	450.0	
HGC	1376.2	1300.0	726.2	2026.2			0.0								
HGC Entrance	726.2	0.0					0.0								
HGC Mirrors (approx)	1751.2	415.0					0.0		1090.0	-545.0	545.0	1100.0	-550.0	550.0	
HGC Exit	2026.2	0.0					0.0								
AC1	2200.8	300.0	2050.8	2350.8			0.0		600.0	-300.0	300.0	900.0	-450.0	450.0	
AC2	2500.8	300.0	2350.8	2650.8			0.0		600.0	-300.0	300.0	900.0	-450.0	450.0	
S2 Frame	2763.5	180.0	2673.5	2853.5			0.0								
S2X paddles †							0.0		1100.0	-550.0	550.0	1335.0	-667.5	667.5	
Q2Y bars †							0.0		<b>1055.0</b>	-527.5	527.5	<b>1150.0</b>	-575.0	575.0	
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 for each detector are measured in the plane of the detector.

† 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.