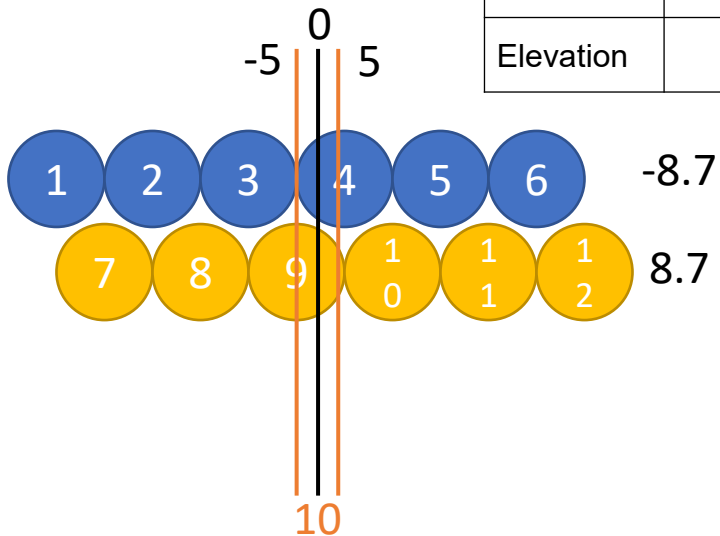
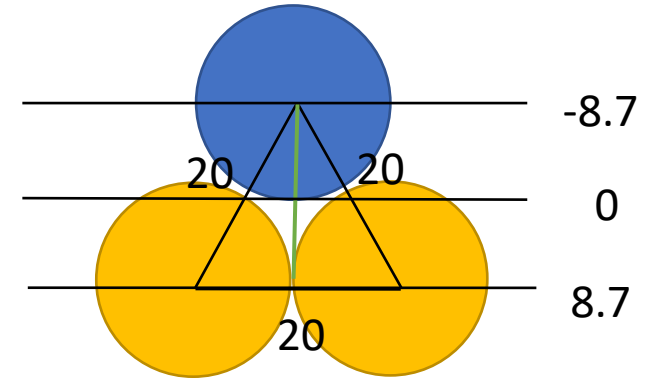


# MS-12F45

MS-12F45						
Top Row	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
Azimuth	-55	-35	-15	5	25	45
Elevation	8.7 degrees Up					
Bottom Row	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12
Azimuth	-45	-25	-5	15	35	55
Elevation	8.7 degrees Down					



$$120/6 = 20 \text{ degrees per beam}$$

$$20/2 = 10 \text{ degree}$$

$$\text{Shift} = 10/2 = 5$$

Elevation tilt to keep  
Distance 20 degrees  
between all centers:  
 $\text{sqrt}(20*20 - 10*10)$   
 $= \text{sqrt}(300) = 17.3$