



source :
 effective length and angular offset :
 manufacturer data
 distance between the two domes
 and 60° angle : measured
 FC : result based on observed
 values for various cartridges
 (source : Wally Malewicz)

$$AC = ((230 * \sin(23.5) + 20)^2 + (230 * \cos(23.5))^2) = 238,68$$

$$AE = ((230 * \sin(23.5) + 20)^2 / \cos(60^\circ)) = 223.42$$

$$AD = BD + 20 = 111.71$$

$$DE = (AE^2 - AD^2) = 223.42$$

$$CE = DC - CE = 17.43$$

$$FC = 9$$

$$EF = CE - CF = 8.43$$

$$CZ = CE * \sin(30^\circ)$$

the hypothesis about the FC distance is not as critical...