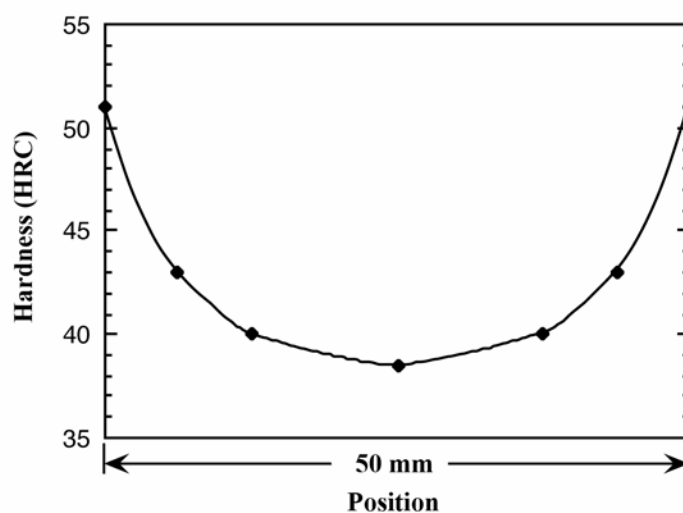


The resulting hardness profile is plotted below.



(c) The radial hardness profile for a 90-mm (3-1/2 in.) diameter specimen of an 8630 steel that has been quenched in moderately agitated water is desired. The equivalent distances and hardnesses for the various radial positions, as determined using Figures 11.15 and 11.17(a) are tabulated below.

<u>Radial Position</u>	<u>Equivalent Distance, mm</u>	<u>HRC Hardness</u>
Surface	3	50
3/4 R	10	38
Midradius	17	29
Center	22	27

The resulting hardness profile is plotted here.