

Piston Velocity

a            0.2 m  
b            0.4 m  
revs        1000 rpm  
dθ/dt = 104.72 rads/sec

| theta | x_+  | dx/dt |
|-------|------|-------|
| [deg] | [m]  | [m/s] |
| 0     | 0.60 | 0.0   |
| 20    | 0.58 | -10.6 |
| 40    | 0.53 | -18.9 |
| 60    | 0.46 | -23.2 |
| 80    | 0.38 | -22.7 |
| 100   | 0.31 | -18.6 |
| 120   | 0.26 | -13.1 |
| 140   | 0.23 | -8.0  |
| 160   | 0.21 | -3.7  |
| 180   | 0.20 | 0.0   |
| 200   | 0.21 | 3.7   |
| 220   | 0.23 | 8.0   |
| 240   | 0.26 | 13.1  |
| 260   | 0.31 | 18.6  |
| 280   | 0.38 | 22.7  |
| 300   | 0.46 | 23.2  |
| 320   | 0.53 | 18.9  |
| 340   | 0.58 | 10.6  |
| 360   | 0.60 | 0.0   |

