

```

----- track THIN solenoid
  0.999861    0.000000    0.016654    0.000000    0.000000    0.000000
 -0.000022    0.999861    0.000000    0.016654    0.000000    0.000000
 -0.016654    0.000000    0.999861    0.000000    0.000000    0.000000
  0.000000   -0.016654   -0.000022    0.999861    0.000000    0.000000
  0.000000    0.000000    0.000000    0.000000    1.000000    0.000000
  0.000000    0.000000    0.000000    0.000000    0.000000    1.000000

```

```

----- twiss THICK solenoid
  0.999723   12.497688    0.016653    0.208184    0.000000    0.000000
 -0.000022    0.999723   -0.000000    0.016653    0.000000    0.000000
 -0.016653   -0.208184    0.999723   12.497688    0.000000    0.000000
  0.000000   -0.016653   -0.000022    0.999723    0.000000    0.000000
  0.000000    0.000000    0.000000    0.000000    1.000000    0.000003
  0.000000    0.000000    0.000000    0.000000    0.000000    1.000000

```

```

----- track THIN solenoid + drifts
  0.999723   12.497400    0.016652    0.208163    0.000000    0.000000
 -0.000022    0.999723   -0.000000    0.016652    0.000000    0.000000
 -0.016652   -0.208163    0.999723   12.497400    0.000000    0.000000
  0.000000   -0.016652   -0.000022    0.999723    0.000000    0.000000
  0.000000   -0.000006    0.000000   -0.000006    1.000000    0.000003
  0.000000    0.000000    0.000000    0.000000    0.000000    1.000000

```

```

----- ptc-track THICK solenoid
  0.999723   12.497688    0.016653    0.208184    0.000000    0.000000
 -0.000022    0.999723   -0.000000    0.016653    0.000000    0.000000
 -0.016653   -0.208184    0.999723   12.497688    0.000000    0.000000
  0.000000   -0.016653   -0.000022    0.999723    0.000000    0.000000
  0.000000    0.000000    0.000000    0.000000    1.000000    0.000000
  0.000000    0.000000    0.000000    0.000000    0.000000    1.000000

```

		q_x	q_y	diff
line 882				
<	5	0.297824	0.291755	-0.006069
>	5	0.297826	0.291756	-0.006070
line 883				
<	6	0.297707	0.291862	-0.005846
>	6	0.297709	0.291863	-0.005846
line 884				
<	7	0.297608	0.291952	-0.005656
>	7	0.297610	0.291954	-0.005656
line 885				
<	8	0.297528	0.292024	-0.005504
>	8	0.297530	0.292025	-0.005504
line 886				
<	9	0.297468	0.292075	-0.005393
>	9	0.297470	0.292077	-0.005393
line 887				
<	10	0.297429	0.292105	-0.005325
>	10	0.297431	0.292106	-0.005325
line 888				
<	11	0.297413	0.292112	-0.005301
>	11	0.297415	0.292113	-0.005302
line 889				
<	12	0.297420	0.292096	-0.005324
>	12	0.297422	0.292098	-0.005324
line 890				
<	13	0.297450	0.292058	-0.005391
>	13	0.297451	0.292060	-0.005392
line 891				
<	14	0.297500	0.291999	-0.005502
>	14	0.297502	0.292000	-0.005502
line 892				
<	15	0.297572	0.291919	-0.005653
>	15	0.297574	0.291920	-0.005653
line 893				
<	16	0.297662	0.291820	-0.005842
>	16	0.297664	0.291821	-0.005842
line 894				
<	17	0.297769	0.291704	-0.006065
>	17	0.297771	0.291705	-0.006065