DETERMINE CONTROL INPUT

Test no.	S(mm)	t(s)	V(m/s)	delta theta(deg)
T01v6	756.3122	66.7602	0.0113	-1.484
T03v6	494.73	58.7202	0.0084	-1.2948
T05v6	722.1844	61.4402	0.0118	-2.2475
			0.0105	
T02v12	1.22E+03	16.6401	0.0734	0.4035
T04v12	2.35E+03	33.3199	0.0706	0.2998
T06v12	2.44E+03	33.3201	0.0733	-0.3085
			0.072433	
T09v19	2.13E+03	16.6401	0.1283	-2.5966
T11V19	2.09E+03	16.6404	0.1255	-2.2115
T13V19	1.80E+03	14.1202	0.1277	-1.6408
			0.127167	
T30V56.F9	3.21E+03	10.0802	0.3188	347.406
T32V56.F9	2.37E+03	14.64	0.1622	-13.1096
			0.2405	
T31V56.B9	4.22E+03	26.92	0.1567	6.2819
T33V56.B9	3.57E+03	14.5201	2.46E-01	9.909
T35V56.B9	2.76E+03	6.681	0.4131	11.5301
			0.271833	

Wheelbase (m)	0.0205		
ROLLO_WHEEL_RADIUS_L (m)	0.0076	dt(s)	1
ROLLO_WHEEL_RADIUS_R (m)	0.0076		

delta theta/time (rad/s)

-3.88E-04		Del S(m)	0.0105
-3.85E-04		Del theta(rad)	-0.00047042
-6.38E-04		S_L	0.010495178
-0.0004704233		S_R	0.010504822

4.23E-04		Del S(m)	0.072433333
1.57E-04		Del theta(rad)	0.00008584
-3.23E-04		S_L	0.072434213
0.00008584		S_R	0.072432453

-0.0027		Del S(m)	0.127166667
-0.0023		Del theta(rad)	-0.00233333
-0.002		S_L	0.12714275
-0.0023333333		S_R	0.127190583

0.6015		Del S(m)	0.24050
-0.0156		Del theta(rad)	0.29295
0.29295		S_L	0.243502738
		S_R	0.237497263

0.0057		Del S(m)	0.27183
0.0119		Del theta(rad)	0.0159
0.0301		S_L	0.271996308
0.0159		S_R	0.271670358

AngVel_L	1.380944
AngVel_R	1.382213

AngVel_L	9.530818
AngVel_R	9.530586

AngVel_L	16.72931
AngVel_R	16.7356

AngVel_L	32.03983
AngVel_R	31.24964

AngVel_L	35.78899
AngVel_R	35.7461

DETERMINE CONTROL INPUT

	Wheelbase (m)
	ROLLO_WHEEL_RADIUS_L (m)
	ROLLO_WHEEL_RADIUS_R (m)

Test no.	Del theta (deg)	t(s)	delta theta/time (rad/s)
T07R	-79.6229	4.1995	-0.3309
T08R	-80.3745	4.1602	-0.3372
			-0.33405
T10L	50.6024	4.1996	0.2103
T10Lb	103.3121	5.8399	0.3088
T12L	95.0994	5.84	0.2842
			0.2677666667

0.0205
0.0076
0.0076

-19.14022 -4.70214

15.34235 5.866115

DETERMINE CONTROL INPUT

Test no.	S(mm)	t(s)	V(m/s)	delta theta(deg)
T20VL12VR19	715.6805	6.9199	0.1034	35.6574
T22VL12VR19	358.8274	4.6399	0.0773	19.5134
			0.09035	
T21VL19VR12	597.662	6.9601	0.0859	-36.4536
T23VL19VR12	557.9595	5.92	0.0942	-33.9546
			0.09005	
T40VL31VR38.f4-5	2.90E+03	18.4	0.1574	40.0388
T42VL31VR38.f4-5	1.93E+03	9	0.2141	28.5259
T44VL31VR38.f4-5	1.48E+03	5.52	0.2679	19.4842
			0.213133	
T41VL31VR38.f5-4	1.26E+03	7.0401	0.1783	-27.537
T43VL31VR38.f5-4	770.5463	7.9599	0.0968	25.5529
T45VL31VR38.f5-4	596.2212	2.24	0.2662	-14.5329
			0.180433	

Wheelbase (m)	0.0205		
ROLLO_WHEEL_RADIUS_L (m)	0.0076	dt(s)	1
ROLLO_WHEEL_RADIUS_R (m)	0.0076		

delta theta/time (rad/s)

0.0899	
0.0734	
0.08165	

Del S(m)	0.09035
Del theta(rad)	0.08165
S_L	0.091187
S_R	0.089513

-0.0914	
-0.1001	
-0.09575	

Del S(m)	0.09005
Del theta(rad)	-0.09575
S_L	0.089069
S_R	0.091031

0.037959	
0.0553	
0.061574	
0.051611	

Del S(m)	0.213133
Del theta(rad)	0.051611
S_L	0.213662
S_R	0.212604

-0.0683	
0.056	
-0.1132	
-0.0418333333	

Del S(m)	0.180433
Del theta(rad)	-0.041833
S_L	0.180005
S_R	0.180862

AngVel_L	11.9982779605
AngVel_R	11.7780378289

AngVel_L	11.7195476974
AngVel_R	11.9778207237

AngVel_L	28.1134665899
AngVel_R	27.9742527083

AngVel_L	23.684808114
AngVel_R	23.7976480263