

TEST 2

DIGLSTRIP
IV

RESULTS.

ZIG	ZAG	TUNNEL	TEM.	TEST
			21-	8-84

21-8-84

TEST No 2

DIGITSTRIP IV Results

LOCOMOTIVE PASSED 650 M LOCOS.

TRAIN STOPPED	1 MILE	TUNNEL
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TRAIN STOPPED	1 MILE	TUNNEL
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TRAIN STARTED LEAVING
FROM INSIDE TUNNEL

TRAIN STARTED LEAVING
FROM INSIDE TUNNEL

CODE:

THERMOCOUPLE

THERMOCOUPLE

THERMOCOUPLE

THERMOCOUPLE

THERMOCOUPLE

THERMOCOUPLE

@ 650 meter

@ 650 meter

@ 650 meter

@ 650 meter

@ 650 meter

@ 650 meter

METERS HIGH

METERS HIGH

METERS HIGH

METERS HIGH

METERS HIGH

METERS HIGH

SCAF: 1 cm = 5°C

$$1 \text{ cm} = 5 \text{ mm}$$

BRAKE VAN PASSED 680M. LOCATION

BRAKE VAN PASSED 680M. LOCATION

DIGISTRIP IV Results Test 2

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

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100	5.710	5.790	5.420	5.750	5.710	5.890	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101														
5.71	5.66	5.67	5.64	5.71	5.67	5.66	5.63	5.64	5.63	5.66	5.67	5.64	5.62	5.66
5.66	5.66	5.63	5.64	5.62	5.63	5.67	5.66	5.63	5.68	5.68	5.66	5.62	5.67	5.66
BUFFER # 02, SOURCE 102														
5.79	5.80	5.80	5.79	5.76	5.75	5.71	5.75	5.76	5.72	5.73	5.79	5.77	5.79	5.75
5.75	5.76	5.75	5.73	5.71	5.72	5.73	5.72	5.73	5.77	5.79	5.82	5.82	5.81	5.77
BUFFER # 03, SOURCE 103														
5.42	5.40	5.40	5.40	5.39	5.40	5.39	5.40	5.39	5.39	5.38	5.39	5.38	5.39	5.42
5.40	5.45	5.43	5.42	5.42	5.39	5.42	5.42	5.43	5.43	5.45	5.44	5.43	5.44	5.42
BUFFER # 04, SOURCE 104														
5.75	5.76	5.75	5.73	5.73	5.72	5.72	5.72	5.73	5.73	5.71	5.72	5.72	5.73	5.73
5.75	5.75	5.75	5.75	5.75	5.75	5.73	5.76	5.79	5.80	5.77	5.86	5.77	5.77	5.75
BUFFER # 05, SOURCE 105														
5.71	5.70	5.71	5.68	5.68	5.68	5.68	5.68	5.68	5.71	5.70	5.70	5.66	5.67	5.66
5.64	5.67	5.66	5.67	5.66	5.71	5.68	5.66	5.66	5.64	5.64	5.62	5.64	5.64	5.62
BUFFER # 06, SOURCE 106														
5.89	5.89	5.89	5.90	5.91	5.90	5.90	5.89	5.91	5.89	5.89	5.89	5.90	5.90	5.90
5.89	5.90	5.86	5.89	5.85	5.84	5.82	5.86	5.85	5.89	5.90	5.89	5.89	5.87	5.84

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08/21/84 22:21:20													
100	5.700	5.730	16.620	19.120	5.640	5.940	OPEN C	9.330	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101													
5.67	5.70	5.70	5.73	5.77	5.76	5.72	5.72	5.75	5.70	5.66	5.67	5.70	5.72
5.75	5.77	5.76	5.72	5.75	5.73	5.70	5.70	5.73	5.71	5.66	5.67	5.64	5.66
BUFFER # 02, SOURCE 102													
5.72	5.72	5.72	5.77	5.73	5.72	5.72	5.72	5.72	5.75	5.78	5.70	5.71	5.75
5.71	5.75	5.73	5.73	5.75	5.76	5.76	5.80	5.79	5.79	5.80	5.80	5.79	5.75
BUFFER # 03, SOURCE 103													
16.62	19.07	23.94	22.46	23.56	22.07	18.73	14.15	12.53	5.47	5.45	5.42	5.44	5.43
5.43	5.44	5.43	5.40	5.43	5.40	5.40	5.43	5.44	5.42	5.40	5.40	5.40	5.39
BUFFER # 04, SOURCE 104													
19.12	25.07	22.75	18.46	19.48	15.35	14.53	10.40	7.44	5.72	5.72	5.70	5.72	5.68
5.70	5.73	5.73	5.75	5.73	5.72	5.72	5.73	5.72	5.75	5.76	5.75	5.73	5.72
BUFFER # 05, SOURCE 105													
5.64	5.63	5.66	5.67	5.67	5.68	5.72	5.72	5.71	5.68	5.70	5.70	5.71	5.72
5.67	5.62	5.62	5.62	5.64	5.67	5.70	5.66	5.71	5.71	5.70	5.71	5.68	5.68
BUFFER # 06, SOURCE 106													
5.94	6.01	5.96	5.98	5.94	6.00	5.98	5.94	5.91	5.93	5.93	5.95	5.96	5.93
5.93	5.95	5.98	6.00	5.98	5.98	5.89	5.89	5.87	5.89	5.89	5.89	5.90	5.90

LCCD passed

5.00

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

08/21/84 22:21:50

100 28.81C--22.64C	15.32C	15.69C	21.90C	18.61C	OPEN C	9.36C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101													
28.81	28.47	28.60	30.31	33.39	36.49	38.73	37.84	26.96	24.59	23.30	21.13	28.74	35.34
18.21	16.14	5.72	5.73	5.71	5.75	5.73	5.70	5.70	5.67	5.70	5.70	5.77	5.76
BUFFER # 02, SOURCE 102													
22.64	26.25	27.64	30.14	30.73	33.23	32.20	24.27	17.07	12.51	21.29	25.89	22.67	19.39
14.64	5.75	5.66	5.73	5.72	5.71	5.68	5.68	5.73	5.72	5.72	5.72	5.77	5.72
BUFFER # 03, SOURCE 103													
15.32	15.80	14.88	15.11	14.37	14.42	16.04	16.40	18.33	18.40	20.20	22.13	25.67	26.41
25.87	25.93	25.38	30.59	31.25	32.81	34.53	33.34	29.72	16.62	19.07	23.94	22.46	22.07
BUFFER # 04, SOURCE 104													
15.69	16.54	16.32	15.12	15.85	16.24	16.02	16.05	16.35	16.54	16.57	17.49	19.52	22.04
25.17	29.14	32.33	33.38	34.83	29.89	28.64	27.30	19.47	19.12	25.07	22.75	18.46	15.35
BUFFER # 05, SOURCE 105													
21.90	24.65	17.15	5.66	5.62	5.66	5.61	5.61	5.62	5.63	5.64	5.64	5.67	5.70
5.72	5.72	5.71	5.70	5.70	5.72	5.73	5.71	5.64	5.64	5.63	5.66	5.67	5.66
BUFFER # 06, SOURCE 106													
18.61	9.47	5.96	5.96	5.87	5.82	5.76	5.80	5.75	5.81	5.93	5.82	5.86	5.89
5.89	5.90	5.87	5.95	5.95	5.98	5.99	6.00	5.93	5.94	6.01	5.96	5.98	5.98

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100 21.02C 17.72C	15.03C	12.20C	16.75C	14.53C	OPEN C	9.35C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101													
20.92	22.00	21.63	22.34	22.94	21.23	20.30	21.61	20.45	19.80	18.51	17.26	16.22	15.65
15.55	15.66	15.38	16.42	18.65	22.30	24.36	24.76	26.52	28.81	29.47	28.60	30.31	33.39
BUFFER # 02, SOURCE 102													
17.72	18.26	18.41	18.72	18.63	18.20	16.91	16.42	15.56	14.71	14.18	13.92	13.58	13.94
13.30	13.34	13.41	13.17	13.85	14.41	15.01	17.29	19.32	22.64	26.25	27.64	30.14	30.73
BUFFER # 03, SOURCE 103													
15.03	14.80	15.54	15.90	15.33	15.96	17.71	17.72	18.05	18.28	18.77	18.88	19.01	18.92
16.07	16.31	15.59	14.87	14.51	14.58	15.22	15.46	14.96	15.32	15.80	14.88	15.11	14.37
BUFFER # 04, SOURCE 104													
12.20	12.47	12.76	13.22	13.16	13.59	13.88	13.99	13.87	13.74	13.95	13.95	15.11	15.10
13.90	14.71	14.00	14.72	13.94	14.31	15.35	15.95	15.70	15.69	16.54	16.32	15.12	15.85
BUFFER # 05, SOURCE 105													
16.75	16.10	14.58	15.03	14.82	17.42	19.03	22.72	28.87	31.72	32.40	34.85	39.33	40.66
36.57	26.27	14.90	21.02	33.48	35.25	41.92	42.31	29.78	21.90	24.65	17.15	5.66	5.66
BUFFER # 06, SOURCE 106													
14.53	14.73	14.83	13.21	13.02	14.42	15.77	17.42	19.12	22.02	30.53	34.32	35.17	34.33
20.73	14.56	16.15	48.09	17.52	22.31	24.65	26.99	18.85	18.61	9.47	5.96	5.87	5.82

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

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100	19.06C	13.64C	14.41C	11.23C	21.47C	15.91C	OPEN C	9.36C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101																
17.50	18.30	19.52	19.16	18.41	18.90	18.38	18.85	18.71	18.60	18.83	19.65	19.08	18.17	18.51	17.47	
16.80	16.92	16.39	18.01	17.96	19.31	19.75	21.02	20.92	22.00	21.63	22.34	22.94	21.23	20.30	21.61	
BUFFER # 02, SOURCE 102																
13.59	13.83	13.89	13.82	13.06	12.57	12.87	13.29	13.49	13.73	14.03	14.38	14.81	14.88	14.90	15.00	
15.16	15.61	15.71	15.89	16.62	16.91	17.26	17.30	17.72	18.26	18.41	18.72	18.63	18.20	16.91	16.42	
BUFFER # 03, SOURCE 103																
14.78	15.55	14.54	14.46	14.86	14.62	14.68	15.02	15.84	16.77	16.40	15.52	15.31	15.12	15.05	15.82	
16.75	16.55	15.64	15.20	15.46	15.61	15.61	15.28	15.03	14.80	15.54	15.90	15.33	15.96	17.71	17.72	
BUFFER # 04, SOURCE 104																
11.23	10.90	10.57	11.02	11.36	11.54	11.52	11.55	11.67	11.99	12.01	12.24	12.24	12.33	12.61	12.91	
12.65	12.42	12.46	12.49	12.71	12.17	12.33	12.18	12.20	12.47	12.76	13.22	13.16	13.59	13.88	13.99	
BUFFER # 05, SOURCE 105																
22.21	20.75	20.72	21.07	21.06	21.08	20.40	19.27	18.91	18.80	18.90	19.42	19.90	20.42	21.84	24.21	
25.76	28.36	29.00	28.88	28.70	27.48	23.63	17.20	16.75	16.10	14.58	15.03	14.82	17.42	19.03	22.72	
BUFFER # 06, SOURCE 106																
16.01	16.04	15.48	14.86	15.64	14.75	14.18	14.52	14.93	14.31	14.04	14.38	14.67	14.87	16.01	17.51	
17.45	16.56	17.95	16.27	17.55	16.50	16.15	15.74	14.53	14.73	14.83	13.21	13.02	14.42	15.77	17.42	

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100	17.67C	12.49C	13.48C	8.92C	22.06C	13.89C	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101																
17.67	18.61	18.66	17.99	18.53	18.20	18.04	18.35	17.45	16.42	15.97	16.52	16.60	17.34	16.30	17.54	
17.89	17.87	18.46	18.48	18.09	18.85	18.63	18.46	19.02	19.06	17.50	18.30	19.52	19.16	18.41	18.90	
BUFFER # 02, SOURCE 102																
12.49	12.59	12.44	12.61	12.58	12.63	12.43	12.97	12.96	12.78	12.44	12.37	12.43	12.44	12.57	12.96	
13.27	13.54	14.22	14.46	14.62	14.38	14.42	14.09	13.40	13.64	13.59	13.83	13.89	13.82	13.06	12.57	
BUFFER # 03, SOURCE 103																
13.48	12.95	13.58	13.54	13.35	13.58	13.06	12.78	13.40	13.78	14.12	13.90	13.24	13.31	13.49	13.56	
13.58	13.94	13.74	13.55	13.82	13.74	13.85	14.41	14.58	14.41	14.78	15.55	14.54	14.46	14.86	14.62	
BUFFER # 04, SOURCE 104																
8.92	8.94	8.71	9.00	8.99	9.12	9.36	9.70	10.49	10.73	10.90	10.92	10.78	10.66	10.70	10.65	
10.80	10.73	10.92	11.06	11.18	11.30	11.26	11.07	11.09	11.23	11.23	10.90	10.57	11.02	11.36	11.54	
BUFFER # 05, SOURCE 105																
22.06	21.71	21.06	21.27	21.69	21.30	21.58	21.61	21.74	20.16	21.23	21.64	21.18	21.29	20.08	19.75	
20.30	20.16	20.57	20.26	20.62	20.97	21.59	22.59	21.53	21.47	22.21	20.75	20.72	21.07	21.06	21.08	
BUFFER # 06, SOURCE 106																
13.89	14.26	14.75	15.00	15.07	14.33	14.81	14.62	14.38	13.77	14.83	14.87	14.63	14.95	14.41	15.57	
15.12	14.98	14.71	14.04	14.24	14.88	14.28	15.08	16.24	15.91	16.01	16.04	15.48	14.86	15.64	14.75	

Tunnel temperature

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

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100	15.430	10.490	13.560	8.980	24.750	13.790	OPEN C	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101															
15.84	16.37	16.26	16.45	16.15	16.55	17.12	16.97	17.32	16.64	16.62	16.90	16.94	17.02	17.47	16.32
16.89	17.06	18.20	17.75	17.87	16.02	18.20	17.56	16.76	17.67	18.61	18.66	17.99	18.53	18.20	18.04
BUFFER # 02, SOURCE 102															
10.49	10.65	10.90	11.00	11.19	11.19	11.08	11.24	11.42	11.46	11.48	11.54	11.57	11.65	11.65	11.61
11.60	11.84	11.70	11.66	11.69	11.85	11.99	12.00	12.24	12.49	12.59	12.44	12.61	12.58	12.63	12.43
BUFFER # 03, SOURCE 103															
13.58	13.29	13.12	13.31	13.61	13.89	13.38	13.29	14.17	14.29	14.17	13.73	13.44	13.88	13.66	14.14
14.31	13.11	13.48	13.22	13.38	13.83	13.99	13.97	13.46	13.48	12.95	13.58	13.54	13.35	13.58	13.06
BUFFER # 04, SOURCE 104															
8.98	9.04	8.94	8.92	8.94	8.85	8.60	8.53	8.51	8.52	8.59	8.59	8.75	8.93	9.05	9.22
9.37	9.54	9.52	9.83	9.90	9.70	9.52	9.12	9.03	8.92	8.94	8.71	9.00	8.99	9.12	9.36
BUFFER # 05, SOURCE 105															
24.75	24.00	22.93	23.11	23.99	21.45	20.77	20.64	19.46	20.00	20.03	20.36	21.30	22.01	21.70	22.06
22.32	22.02	21.75	22.67	22.32	22.16	21.65	22.34	21.78	22.06	21.71	21.06	21.27	21.69	21.30	21.58
BUFFER # 06, SOURCE 106															
13.79	13.70	13.44	13.43	13.40	12.82	12.93	12.99	12.96	14.53	14.57	14.63	14.32	13.94	13.73	14.52
14.34	13.79	14.09	13.33	14.38	14.13	13.44	13.65	13.74	13.89	14.26	14.75	15.00	15.07	14.33	14.81

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100	16.950	9.780	13.070	8.010	18.570	10.690	OPEN C	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101															
17.74	17.50	17.64	16.91	16.50	15.51	16.36	16.49	15.87	15.94	15.61	15.82	16.07	16.12	16.06	15.61
16.15	16.16	15.28	15.42	15.54	15.18	15.20	15.43	15.84	16.37	16.26	16.45	16.15	16.55	17.12	16.97
BUFFER # 02, SOURCE 102															
9.61	9.66	9.64	9.68	9.69	9.70	9.66	9.60	9.64	9.70	9.63	9.73	9.89	10.20	10.32	10.32
10.17	10.28	10.33	10.41	10.49	10.40	10.31	10.40	10.49	10.65	10.90	11.00	11.19	11.19	11.08	11.24
BUFFER # 03, SOURCE 103															
12.81	13.09	12.80	12.88	12.81	13.22	13.44	13.27	13.24	12.66	13.01	13.29	13.22	13.43	13.77	13.35
13.48	13.30	13.31	13.64	13.41	13.85	13.02	13.46	13.58	13.29	13.12	13.31	13.61	13.89	13.38	13.23
BUFFER # 04, SOURCE 104															
8.09	7.99	8.01	8.10	8.09	7.95	8.00	7.92	7.90	7.86	7.81	7.72	7.72	7.77	7.80	7.77
7.84	7.96	8.06	8.28	8.52	8.69	8.84	8.92	8.98	9.04	8.94	8.92	8.94	8.85	8.60	8.53
BUFFER # 05, SOURCE 105															
19.07	19.49	19.83	19.39	19.39	19.04	19.03	19.14	19.59	20.55	20.95	20.78	20.90	21.85	21.42	21.73
22.73	22.32	22.94	23.04	23.22	24.70	23.20	25.22	24.75	24.00	22.93	23.11	23.99	21.45	20.77	20.64
BUFFER # 06, SOURCE 106															
10.85	10.32	10.57	10.11	10.25	11.30	10.99	10.93	11.67	12.03	11.30	12.73	12.88	12.52	12.47	13.10
13.24	13.31	13.43	13.49	13.04	13.17	12.25	12.57	13.79	13.70	13.44	13.43	13.40	12.82	12.93	12.99

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

08/21/84 22:24:50

100 18.17C	9.07C	13.51C	7.90C	17.66C	9.69C	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101															
18.17	17.79	17.91	17.56	17.44	17.99	18.06	17.87	17.41	17.65	17.49	17.00	17.71	17.24	17.12	17.36
17.25	17.17	17.46	16.90	16.29	16.75	16.32	16.69	16.95	16.95	17.74	17.50	17.64	16.91	16.50	15.51
BUFFER # 02, SOURCE 102															
9.07	9.35	9.75	9.76	9.79	9.70	9.69	9.73	9.71	9.64	9.69	9.73	9.71	9.71	9.71	9.75
9.66	9.66	9.60	9.68	9.74	9.59	9.71	9.76	9.82	9.78	9.61	9.66	9.64	9.68	9.69	9.70
BUFFER # 03, SOURCE 103															
13.51	13.58	12.81	13.00	12.42	13.11	12.83	12.71	12.95	12.59	12.68	12.77	12.71	12.88	12.56	12.88
13.12	13.10	12.92	12.62	12.93	13.30	12.71	12.83	12.72	13.07	12.81	13.09	12.80	12.88	12.81	13.22
BUFFER # 04, SOURCE 104															
7.90	7.89	7.86	7.85	7.90	7.89	7.90	7.91	7.98	8.00	8.01	8.00	7.99	8.04	8.01	8.04
8.10	8.10	8.14	8.13	8.18	8.10	8.12	8.04	7.99	8.01	8.09	7.99	8.01	8.10	8.09	7.95
BUFFER # 05, SOURCE 105															
17.66	17.56	16.85	17.92	18.31	18.80	18.97	18.02	18.42	18.65	18.68	18.11	18.45	18.55	18.31	18.63
19.22	17.86	17.94	18.35	18.45	18.93	19.06	18.86	18.78	18.57	19.07	19.49	19.33	19.39	19.39	19.04
BUFFER # 06, SOURCE 106															
9.69	9.83	9.92	9.94	10.31	10.39	10.14	9.70	10.40	10.51	10.70	10.80	10.69	10.47	10.09	10.01
9.94	10.37	10.37	10.65	10.73	10.98	10.68	10.56	10.70	10.69	10.85	10.32	10.57	10.11	10.25	11.30

EVENT TRIGGER

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100 15.92C	8.67C	12.62C	7.31C	17.11C	8.75C	OPEN C	9.49C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101															
17.04	17.07	17.36	17.22	16.54	16.20	15.92	16.04	15.79	16.80	18.07	18.00	17.67	17.62	17.81	17.00
17.29	17.66	17.00	17.36	17.67	18.06	18.32	18.90	18.17	17.79	17.91	17.56	17.44	17.99	18.06	17.87
BUFFER # 02, SOURCE 102															
8.53	8.52	8.39	8.62	8.69	8.69	8.73	8.83	8.92	8.84	8.79	9.09	9.03	9.05	9.03	9.09
9.09	9.05	9.02	8.92	8.85	8.80	8.89	8.97	9.07	9.35	9.75	9.76	9.79	9.70	9.69	9.73
BUFFER # 03, SOURCE 103															
13.15	12.77	12.86	12.65	12.86	12.53	12.62	12.95	12.85	12.61	12.36	12.77	12.75	12.71	12.63	12.80
12.75	12.24	12.37	12.34	12.80	12.86	12.87	13.58	13.51	13.58	12.81	13.00	12.42	13.17	12.83	12.71
BUFFER # 04, SOURCE 104															
7.38	7.37	7.26	7.31	7.35	7.37	7.42	7.42	7.44	7.39	7.40	7.43	7.52	7.54	7.53	7.59
7.70	7.75	7.73	7.73	7.85	7.90	7.94	7.91	7.90	7.89	7.86	7.85	7.90	7.89	7.90	7.91
BUFFER # 05, SOURCE 105															
16.86	17.03	16.19	15.99	16.05	16.07	16.07	16.09	15.97	16.15	16.69	15.45	15.03	14.87	15.10	15.27
15.55	16.45	17.00	17.66	17.61	17.66	17.72	17.82	17.66	17.56	16.85	17.92	18.31	18.80	18.97	18.02
BUFFER # 06, SOURCE 106															
8.62	8.53	8.51	8.59	8.48	8.47	8.39	8.61	8.52	8.45	8.51	8.74	8.64	8.73	8.52	8.45
8.78	9.02	8.83	8.74	9.16	9.19	9.76	9.71	9.69	9.83	9.92	9.94	10.31	10.39	10.14	9.70

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

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100	12.56C	7.77C	12.36C	7.10C	24.43C	9.18C	OPEN C	9.47C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101																
12.76	12.80	13.20	13.30	13.77	14.07	13.77	14.08	13.82	13.61	13.79	14.66	15.18	15.32	14.48	14.91	14.91
15.46	15.20	15.84	16.17	16.12	16.06	15.57	15.59	15.92	17.04	17.07	17.36	17.22	16.54	16.20	15.92	15.92
BUFFER # 02, SOURCE 102																
7.77	7.77	7.82	7.82	7.82	7.84	7.89	8.08	8.17	8.28	8.19	8.08	8.12	8.22	8.38	8.46	8.46
8.45	8.31	8.38	8.43	8.29	8.50	8.57	8.43	8.67	8.53	8.52	8.39	8.62	8.69	8.69	8.73	8.73
BUFFER # 03, SOURCE 103																
12.25	12.19	12.04	12.07	11.85	12.37	12.49	12.53	12.86	12.54	12.66	12.53	12.85	13.04	12.71	12.75	12.75
12.85	12.72	12.70	12.38	12.77	12.86	12.56	12.53	12.62	13.15	12.77	12.86	12.65	12.86	12.53	12.62	12.62
BUFFER # 04, SOURCE 104																
7.11	7.14	7.14	7.07	7.00	7.11	7.24	7.26	7.28	7.35	7.37	7.38	7.49	7.47	7.51	7.55	7.55
7.65	7.51	7.45	7.38	7.34	7.28	7.25	7.26	7.31	7.38	7.37	7.26	7.31	7.35	7.37	7.42	7.42
BUFFER # 05, SOURCE 105																
25.69	25.87	25.08	25.51	24.23	24.46	25.08	24.34	24.37	23.95	22.59	23.81	23.05	22.74	24.25	23.53	23.53
23.38	22.79	23.91	22.90	20.95	18.96	17.36	17.95	17.11	16.86	17.09	15.19	15.99	16.05	16.07	16.07	16.07
BUFFER # 06, SOURCE 106																
9.22	9.59	9.54	9.32	9.31	9.16	9.21	9.23	8.89	8.95	8.89	8.05	8.86	8.98	9.04	8.73	8.73
9.03	8.99	8.78	8.70	8.70	8.74	8.75	8.73	8.75	8.62	8.53	8.51	8.59	8.48	8.47	8.39	8.39

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100	14.13C	7.33C	10.79C	6.56C	21.14C	9.93C	OPEN C	9.47C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101																
13.90	13.74	13.33	13.77	13.87	13.93	13.90	14.44	14.48	14.33	14.81	15.60	16.10	15.23	14.83	14.41	14.41
14.27	14.47	14.05	13.41	15.26	13.07	12.95	12.73	12.56	12.76	12.80	13.20	13.30	13.77	14.07	13.77	13.77
BUFFER # 02, SOURCE 102																
7.38	7.35	7.34	7.33	7.28	7.25	7.25	7.26	7.24	7.24	7.29	7.42	7.45	7.53	7.54	7.56	7.56
7.59	7.82	7.61	7.65	7.71	7.73	7.80	7.77	7.77	7.77	7.77	7.82	7.82	7.82	7.84	7.89	7.89
BUFFER # 03, SOURCE 103																
10.98	11.00	10.93	10.92	11.40	11.70	11.80	11.65	11.93	11.80	12.03	11.95	12.13	12.23	12.13	12.18	12.18
12.32	11.71	11.41	11.75	12.36	12.47	12.65	12.37	12.36	12.25	12.19	12.04	12.07	11.85	12.37	12.49	12.49
BUFFER # 04, SOURCE 104																
6.64	6.65	6.56	6.65	6.67	6.69	6.75	6.91	6.98	7.00	7.02	7.09	7.09	7.09	7.19	7.21	7.21
7.15	7.15	7.17	7.26	7.16	7.15	7.14	7.06	7.10	7.11	7.14	7.14	7.07	7.00	7.11	7.24	7.24
BUFFER # 05, SOURCE 105																
19.94	20.59	20.44	19.63	20.59	20.68	21.59	22.06	21.22	21.40	21.78	21.97	21.35	21.23	22.15	23.20	23.20
23.33	23.30	22.38	21.91	23.63	23.30	23.84	23.85	24.43	25.69	25.87	25.08	25.51	24.23	24.46	25.08	25.08
BUFFER # 06, SOURCE 106																
9.49	9.36	8.32	8.38	8.04	8.03	8.00	8.24	8.55	8.84	9.13	9.30	9.12	9.59	9.76	9.90	9.90
10.06	9.85	9.75	9.55	9.32	9.41	9.42	9.19	9.18	9.22	9.59	9.54	9.32	9.31	9.16	9.21	9.21

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

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100	8.29C	7.14C	8.56C	6.44C	14.41C	8.10C	OPEN C	9.50C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101															
8.38	9.04	9.49	10.30	13.09	13.85	14.09	13.73	14.26	14.95	15.13	15.41	15.47	15.21	14.61	13.85
13.33	14.15	14.59	14.77	14.93	15.07	14.87	14.61	14.13	13.90	13.74	13.33	13.77	13.87	13.93	13.90
BUFFER # 02, SOURCE 102															
7.15	7.21	7.10	7.21	7.28	7.35	7.51	7.38	7.28	7.28	7.21	7.33	7.28	7.33	7.28	7.26
7.25	7.26	7.26	7.29	7.31	7.33	7.31	7.31	7.33	7.38	7.35	7.34	7.33	7.28	7.25	7.25
BUFFER # 03, SOURCE 103															
9.16	9.54	9.47	9.41	9.71	9.88	9.92	9.85	9.85	9.79	9.63	9.03	9.37	9.16	9.07	8.99
9.18	9.71	9.98	9.87	10.37	10.21	10.41	10.08	10.79	10.98	11.00	10.93	10.92	11.40	11.70	11.80
BUFFER # 04, SOURCE 104															
6.52	6.55	6.63	6.61	6.54	6.55	6.61	6.60	6.61	6.67	6.82	6.83	6.75	6.60	6.50	6.50
6.54	6.60	6.67	6.67	6.56	6.58	6.55	6.54	6.56	6.64	6.65	6.56	6.65	6.67	6.69	6.75
BUFFER # 05, SOURCE 105															
14.81	15.76	15.69	15.13	15.70	15.86	15.45	15.55	16.15	16.94	17.14	17.47	18.02	18.81	18.94	18.91
19.32	19.68	19.82	19.54	20.04	21.19	21.29	21.08	21.14	19.94	20.59	20.44	19.69	20.59	20.68	21.59
BUFFER # 06, SOURCE 106															
8.27	8.65	9.36	9.44	9.14	8.60	8.34	8.86	7.96	7.98	7.96	8.32	7.72	7.57	7.49	7.70
8.39	8.52	8.53	9.11	10.08	11.11	10.82	10.59	9.93	9.49	9.36	8.32	8.38	8.04	8.03	8.00

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100	7.20C	5.13C	6.16C	5.42C	10.66C	7.02C	OPEN C	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101															
7.75	7.44	7.48	7.90	10.32	9.55	9.31	9.05	8.55	8.53	7.89	7.84	8.23	8.42	8.53	9.84
8.70	7.49	8.17	9.52	10.84	10.88	10.75	8.92	8.29	8.38	9.04	9.49	10.30	13.09	13.35	14.09
BUFFER # 02, SOURCE 102															
6.26	6.37	6.36	6.42	6.92	7.24	7.20	7.14	7.00	6.87	6.95	6.84	6.88	6.93	6.88	7.01
7.11	7.05	6.96	7.07	7.40	7.23	7.15	7.16	7.14	7.15	7.21	7.10	7.21	7.28	7.35	7.51
BUFFER # 03, SOURCE 103															
6.23	6.42	6.61	6.14	5.84	5.86	6.22	6.50	6.04	6.37	6.81	7.47	7.51	7.24	6.89	6.78
7.07	7.38	8.05	7.98	7.73	7.68	7.72	8.06	8.56	9.16	9.54	9.47	9.41	9.71	9.88	9.92
BUFFER # 04, SOURCE 104															
5.40	5.45	5.53	5.47	5.48	5.56	5.81	5.84	5.70	5.80	5.91	5.91	6.01	6.17	6.01	5.99
5.93	5.96	6.07	6.14	6.00	6.04	6.17	6.28	6.44	6.52	6.55	6.63	6.61	6.54	6.55	6.61
BUFFER # 05, SOURCE 105															
10.35	10.39	11.59	11.31	10.84	10.69	11.02	10.83	10.13	9.37	8.26	9.08	12.81	14.93	14.26	13.88
13.89	13.92	13.58	13.01	12.13	11.42	11.56	12.01	14.41	14.81	15.76	15.69	15.13	15.70	15.86	15.45
BUFFER # 06, SOURCE 106															
7.25	7.68	7.92	7.29	7.25	7.42	7.26	7.25	7.62	7.91	7.95	7.57	7.75	9.00	9.64	9.61
7.72	7.45	7.34	7.52	7.85	7.71	8.05	8.01	8.10	8.27	8.65	9.36	9.44	9.14	8.60	8.34

ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

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100	5.01C	4.84C	4.83C	4.71C	7.01C	6.07C	OPEN C	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101																
5.16	5.24	5.30	5.38	5.58	5.61	5.94	6.05	5.94	6.13	6.24	6.28	6.36	6.31	6.41	6.46	
6.83	7.75	7.98	7.72	6.91	7.10	7.16	7.09	7.20	7.75	7.44	7.48	7.90	10.32	9.55	9.31	
BUFFER # 02, SOURCE 102																
4.92	4.93	4.92	5.17	5.17	5.17	5.27	5.45	5.58	5.68	5.71	5.75	5.75	5.75	5.80	5.70	
5.85	6.28	6.33	6.17	6.13	6.14	5.99	6.05	6.13	6.26	6.37	6.36	6.42	6.92	7.24	7.20	
BUFFER # 03, SOURCE 103																
4.87	4.79	4.83	4.78	4.81	4.93	4.92	4.83	4.83	4.97	4.97	5.01	5.03	5.01	5.07	5.12	
5.12	5.45	5.90	6.19	6.08	6.49	6.45	6.23	6.16	6.23	6.42	6.61	6.14	5.84	5.86	6.22	
BUFFER # 04, SOURCE 104																
4.69	4.66	4.69	4.70	4.66	4.65	4.64	4.64	4.74	4.81	4.90	4.81	4.87	4.83	4.75	4.83	
4.98	5.10	5.27	5.38	5.33	5.54	5.59	5.54	5.42	5.40	5.45	5.53	5.47	5.48	5.56	5.81	
BUFFER # 05, SOURCE 105																
7.38	7.52	7.71	7.29	7.37	7.52	7.39	7.71	7.68	7.59	7.72	8.46	8.42	7.58	7.87	8.53	
7.66	7.71	7.89	8.28	8.57	8.43	8.94	9.18	10.66	10.35	10.39	11.59	11.31	10.84	10.69	11.02	
BUFFER # 06, SOURCE 106																
6.08	6.14	6.13	6.13	6.12	6.27	6.28	6.44	6.64	6.61	6.65	6.69	6.77	6.68	6.49	6.72	
6.61	6.73	6.84	6.95	7.07	6.98	7.03	6.98	7.02	7.25	7.68	7.92	7.29	7.25	7.42	7.26	

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100	4.93C	4.64C	4.84C	4.64C	4.78C	5.11C	OPEN C	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101																
4.84	4.79	4.78	4.81	4.88	4.99	4.80	4.83	4.81	4.92	4.87	4.94	4.87	4.92	5.17	5.06	
4.93	4.89	5.22	4.99	4.93	5.04	5.10	4.92	5.01	5.16	5.24	5.30	5.38	5.58	5.61	5.94	
BUFFER # 02, SOURCE 102																
4.80	4.83	4.88	5.10	4.89	4.87	4.81	4.67	4.69	4.74	4.94	4.85	4.70	4.75	4.75	4.81	
4.81	4.90	4.83	4.83	4.85	4.89	4.89	4.99	4.84	4.92	4.93	4.92	5.17	5.17	5.17	5.27	
BUFFER # 03, SOURCE 103																
4.74	4.84	4.71	4.81	4.71	4.81	4.76	4.69	4.89	4.88	4.74	4.89	4.80	4.81	4.87	4.94	
4.79	4.66	4.73	4.76	4.84	5.02	4.80	4.71	4.83	4.87	4.79	4.83	4.78	4.81	4.93	4.92	
BUFFER # 04, SOURCE 104																
4.74	4.70	4.66	4.78	4.69	4.79	4.70	4.69	4.64	4.61	4.58	4.65	4.66	4.70	4.66	4.67	
4.69	4.73	4.70	4.57	4.64	4.71	4.69	4.70	4.71	4.69	4.66	4.69	4.70	4.66	4.65	4.64	
BUFFER # 05, SOURCE 105																
4.81	4.93	4.92	5.07	5.19	5.19	4.98	4.96	5.11	5.10	5.43	5.39	5.13	5.27	5.54	5.56	
5.71	5.77	6.21	6.35	6.45	6.58	6.51	6.79	7.01	7.38	7.52	7.71	7.29	7.37	7.52	7.39	
BUFFER # 06, SOURCE 106																
4.90	5.08	5.11	5.13	5.10	5.13	5.17	5.29	5.12	5.39	5.16	5.25	5.29	5.26	5.31	5.39	
5.45	5.52	5.52	5.76	5.73	5.77	5.96	5.95	6.07	6.08	6.14	6.13	6.13	6.12	6.27	6.28	

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ZIG-ZAG NUMBER 10 TUNNEL TEMPERATURE TEST

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100	4.800	4.840	4.790	4.470	4.760	5.250	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101														
5.01	4.88	4.94	4.83	4.80	4.80	4.78	4.94	4.78	4.81	4.94	4.80	4.99	5.07	5.06
4.81	4.78	4.71	4.89	4.83	4.96	4.83	4.89	4.93	4.84	4.79	4.78	4.81	4.88	4.99
BUFFER # 02, SOURCE 102														
4.88	4.90	4.70	4.73	4.67	4.61	4.61	4.65	4.78	4.92	4.78	4.74	4.66	4.60	4.69
4.85	4.85	4.68	4.76	4.65	4.62	4.70	4.84	4.64	4.80	4.83	4.88	5.10	4.89	4.87
BUFFER # 03, SOURCE 103														
4.62	4.73	4.70	4.73	4.65	4.51	4.60	4.69	4.74	4.58	4.73	4.80	4.70	4.66	4.65
4.65	4.83	4.73	4.69	4.65	4.61	4.65	4.71	4.84	4.74	4.84	4.71	4.81	4.71	4.81
BUFFER # 04, SOURCE 104														
4.57	4.60	4.56	4.58	4.56	4.61	4.62	4.61	4.51	4.55	4.52	4.61	4.53	4.56	4.58
4.69	4.61	4.55	4.62	4.58	4.62	4.55	4.66	4.64	4.74	4.70	4.66	4.78	4.69	4.79
BUFFER # 05, SOURCE 105														
4.64	4.74	4.74	4.88	5.02	4.75	4.75	4.84	4.94	4.99	4.96	5.06	4.89	4.83	4.66
4.76	4.98	4.93	4.83	4.79	4.73	4.89	5.03	4.78	4.81	4.93	4.92	5.07	5.19	5.19
BUFFER # 06, SOURCE 106														
5.21	4.99	5.16	5.21	5.12	4.94	4.87	5.07	5.11	5.03	5.06	4.99	5.08	5.15	5.15
4.98	4.94	5.01	5.19	5.19	5.20	5.24	5.04	5.11	4.90	5.08	5.11	5.13	5.10	5.13

08/21/84 22:29:20

100	4.670	4.840	4.620	4.410	4.700	4.930	OPEN C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUFFER # 01, SOURCE 101														
4.74	4.70	4.73	4.71	4.62	4.70	4.67	4.75	4.83	4.70	4.79	4.80	4.88	4.76	4.92
4.75	4.83	4.98	4.76	4.81	4.74	4.71	4.83	4.80	5.01	4.88	4.94	4.83	4.80	4.78
BUFFER # 02, SOURCE 102														
4.79	4.78	4.75	4.57	4.75	4.61	4.90	4.88	4.80	4.75	4.64	4.67	4.64	4.85	4.73
4.81	4.80	4.93	4.88	4.62	4.64	4.71	4.79	4.84	4.88	4.90	4.70	4.73	4.67	4.61
BUFFER # 03, SOURCE 103														
4.48	4.65	4.62	4.61	4.73	4.67	4.48	4.56	4.60	4.66	4.73	4.64	4.53	4.60	4.61
4.57	4.61	4.56	4.61	4.69	4.69	4.79	4.80	4.79	4.62	4.73	4.70	4.73	4.65	4.60
BUFFER # 04, SOURCE 104														
4.55	4.46	4.51	4.51	4.56	4.53	4.55	4.61	4.52	4.44	4.49	4.57	4.46	4.49	4.56
4.49	4.52	4.51	4.53	4.57	4.48	4.60	4.55	4.47	4.57	4.60	4.56	4.58	4.56	4.62
BUFFER # 05, SOURCE 105														
4.80	4.83	4.87	4.62	4.62	4.60	4.58	4.76	4.89	4.74	4.87	4.66	4.69	4.62	4.89
4.76	4.94	4.92	4.84	4.80	4.89	4.78	4.62	4.76	4.64	4.74	4.74	4.88	5.02	4.75
BUFFER # 06, SOURCE 106														
4.89	5.07	4.89	5.16	5.21	4.97	4.98	5.07	5.03	5.06	5.04	5.03	5.03	4.94	5.08
5.20	5.07	5.27	5.12	4.98	4.81	5.13	4.94	5.25	5.21	4.99	5.16	5.21	5.12	4.94