## TDE Techno Design

(9132-2818 QUEBEC INC).

283 Labrosse, Pointe Claire, Québec, H9R 1A3, CANADA

Tel: (514) 694-9431 Fax: (514) 694-2670

## PRISM LIGHT PROJECT THERMAL TEST

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## **TEST PROCEDURE**

- 1- A factory calibrated (brand new) OMEGA HH12A temperature read-out was used
- 2- Factory calibrated k-type thermocouples (OMEGA TT-K) were cut to length and attached to connectors (OMEGA SMPW-K-M).
- 3- Thermocouples were attached at the specified positions (as shown in Fig.1).
- 4- An additional thermocouple was left in the area to moniotor ambient temperature. Values of ambient temperature were averaged as they were noticed to be stable.
- 5- Prism light unit was powered and put to function. Temperature readings were started to be recorded as soon as the shroud was observed to be at maximum height.
- 6- Temperature readings were recorded every fifteen (15) minutes. The same order was consistently used in recording the different temperature values of the different thermocouples.

## PRISM LIGHT PROJECT

Ambient Temperature: 21 C

TIME (Min.)	Th1	Th2	Th3	Th4	Th5	Th6	Th7	Th8
0	20	20	20	20	20	20	20	20
15	136	98	101	185	62	33	95	29
30	149	108	115	197	65	35	103	34
45	153	111	117	200	65	32	104	38
60	153	110	116	205	68	31	105	42
75	153	111	118	205	67	34	105	43
90	153	110	120	207	67	33	105	46
105	151	109	119	207	67	35	105	47
120	152	111	117	207	66	35	105	50
135	154	112	117	207	66	34	105	53
150	155	113	118	204	66	34	105	54
165	154	113	120	205	67	34	105	57
180	153	113	121	207	66	35	105	57

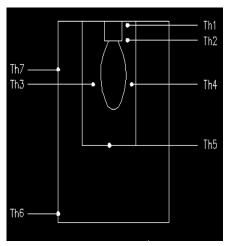


Fig. 1: Thermocouples Location

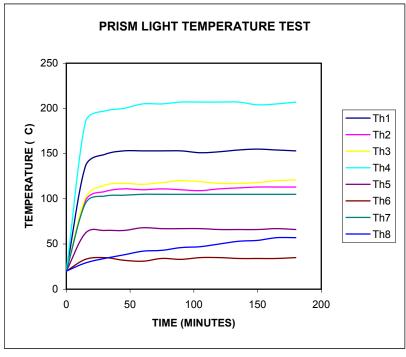


Fig. 2: Temperautre values as a function of test time