AP 002866

RdF Corporation
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Fax: (603) 882-6925
E-mail: sensor@rdfcorp.com

ISO 9001 CERTIFIED

Q-116-08 REV A
Q-116-12 REV A

MICRO-FOIL™ HEAT FLUX SENSOR

CALIBRATION

RdF PART NO. 27070-1

SERIAL NO. 00067902

HEAT FLUX SENSOR:

Output at 70°F: 3.70 μV/BTU/ ft² hr

Polarity: (For heat flow into the surface)
White - Positive (+)
Red - Negative (–)

Temperature Multiplication Factor: See Attached Graph

*Thermal Resistance: 0.01 °F/BTU/ft² hr (Typ)

*Heat Capacity: 0.03 BTU/ft² hr/°F (Typ)

Response Time: 0.60 sec (62% response to step function) (Typ)

THERMOCOUPLE:

ANSI TYPE	MATERIAL	POLARITY	COLOR
K	Chromel	Pos. (+)	Yellow
	Alumel	Neg. (–)	Red

Output per ANSI MC96.1-1975 and NBS Monograph 125

*Thermal resistance is the temperature difference between the front surface and rear mounting surface of the sensor per unit of heat flow through the sensor. Heat capacity is the amount of heat required to raise the mean temperature of the sensor 1°F. Typical values of these two properties are given primarily to indicate sensor capabilities and are required for heat flow calculations only in very rare instances.

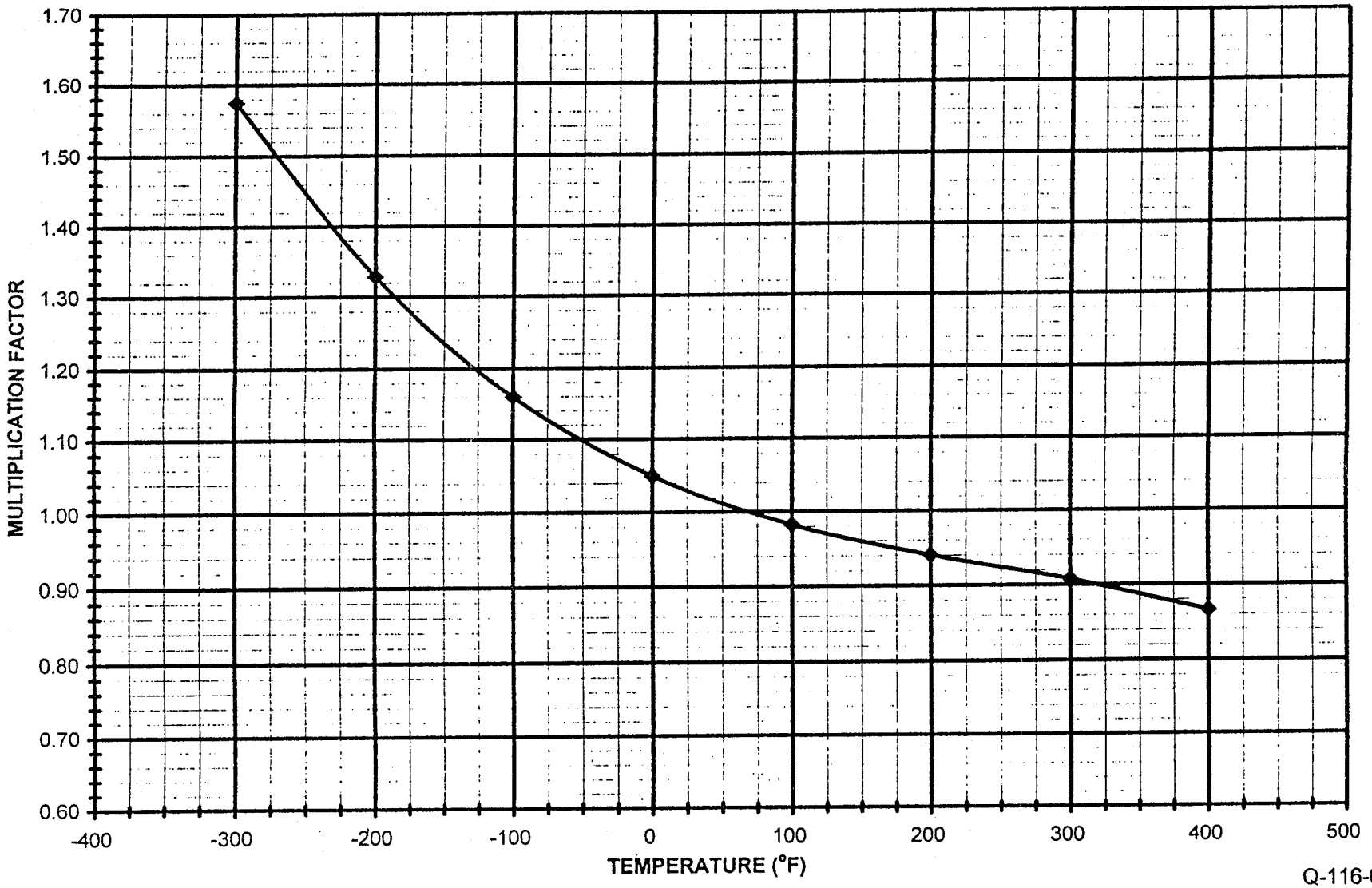
BY: Elaine Tardif DATE: 6-29-00

RdF Corporation
Specialists in Temperature Measurement

MICRO-FOIL HEAT FLUX SENSOR

OUTPUT MULTIPLICATION FACTOR VS RECEIVING SURFACE TEMPERATURE (70°F)

ISO 9001 CERTIFIED



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Q-116-03 REV A
Q-116-04 REV A
Q-116-08 REV A
Q-116-11 REV A
Q-116-12 REV A

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Q-116-08 REV A
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MICRO-FOIL™ HEAT FLUX SENSOR

CALIBRATION

RdF PART NO. 27070-1

SERIAL NO. 00067903

HEAT FLUX SENSOR:

Output at 70°F: 3.66 μV/BTU/ ft² hr

Polarity: (For heat flow into the surface)
White - Positive (+)
Red - Negative (–)

Temperature Multiplication Factor: See Attached Graph

*Thermal Resistance: 0.01 °F/BTU/ft² hr (Typ)

*Heat Capacity: 0.03 BTU/ft² hr/°F (Typ)

Response Time: 0.60 sec (62% response to step function) (Typ)

THERMOCOUPLE:

ANSI TYPE	MATERIAL	POLARITY	COLOR
K	Chromel Alumel	Pos. (+) Neg. (–)	Yellow Red

Output per ANSI MC96.1-1975 and NBS Monograph 125

*Thermal resistance is the temperature difference between the front surface and rear mounting surface of the sensor per unit of heat flow through the sensor. Heat capacity is the amount of heat required to raise the mean temperature of the sensor 1°F. Typical values of these two properties are given primarily to indicate sensor capabilities and are required for heat flow calculations only in very rare instances.

BY: Elaine Tardif DATE: 6-29-00

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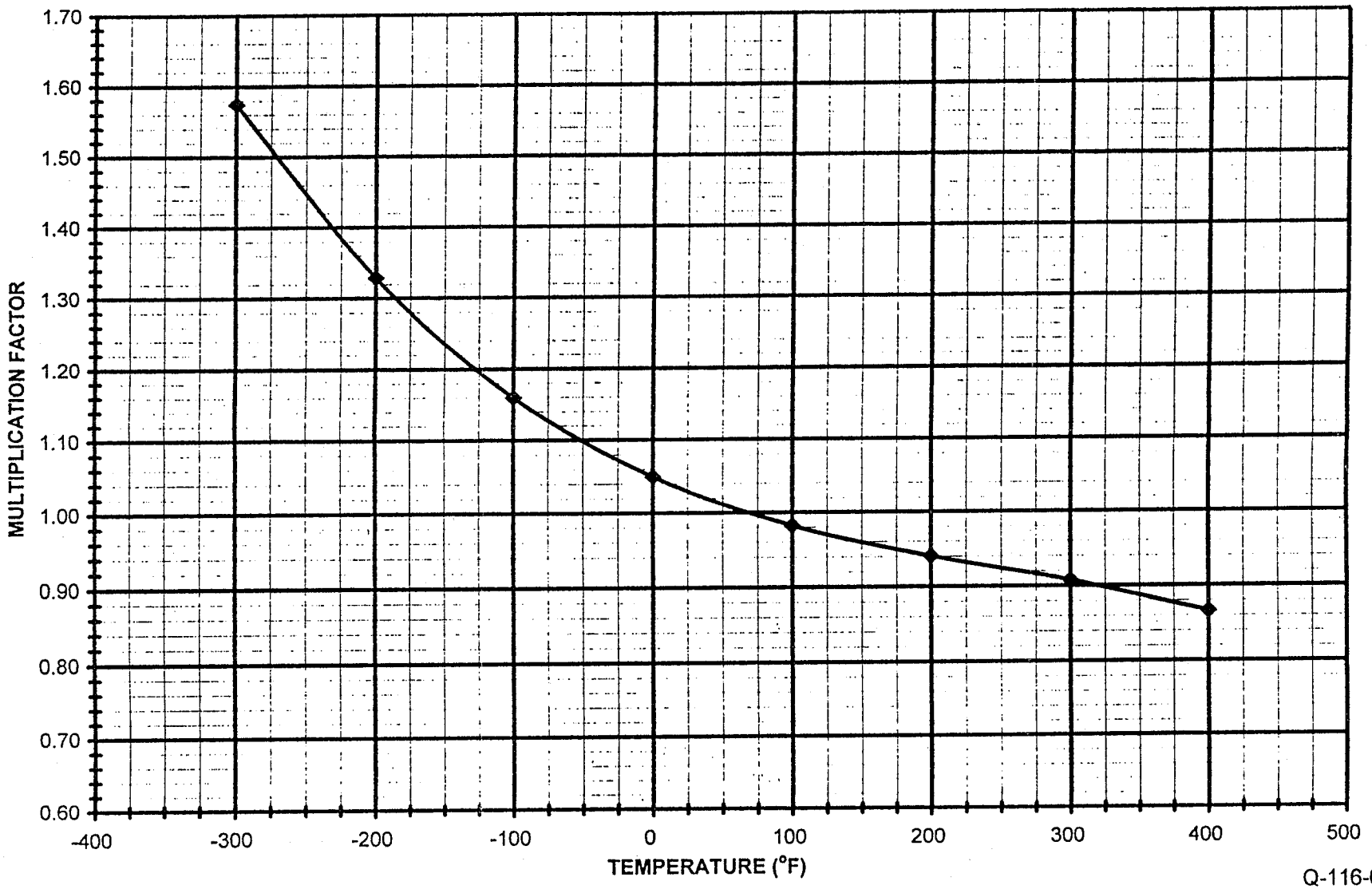
MICRO-FOIL HEAT FLUX SENSOR

OUTPUT MULTIPLICATION FACTOR VS RECEIVING SURFACE TEMPERATURE (70°F)

ISO 9001 CERTIFIED



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Q-116-08 REV A
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MICRO-FOIL™ HEAT FLUX SENSOR

CALIBRATION

RdF PART NO. 27070-1

SERIAL NO. 00067904

HEAT FLUX SENSOR:

Output at 70°F: 366 μV/BTU/ ft² hr

Polarity: (For heat flow into the surface)
White - Positive (+)
Red - Negative (–)

Temperature Multiplication Factor: See Attached Graph

*Thermal Resistance: 0.01 °F/BTU/ft² hr (Typ)

*Heat Capacity: 0.03 BTU/ft² hr/°F (Typ)

Response Time: 0.60 sec (62% response to step function) (Typ)

THERMOCOUPLE:

ANSI TYPE	MATERIAL	POLARITY	COLOR
K	Chromel Alumel	Pos. (+) Neg. (–)	Yellow Red

Output per ANSI MC96.1-1975 and NBS Monograph 125

*Thermal resistance is the temperature difference between the front surface and rear mounting surface of the sensor per unit of heat flow through the sensor. Heat capacity is the amount of heat required to raise the mean temperature of the sensor 1°F. Typical values of these two properties are given primarily to indicate sensor capabilities and are required for heat flow calculations only in very rare instances.

BY: Elaine Tardif DATE: 6-29-00

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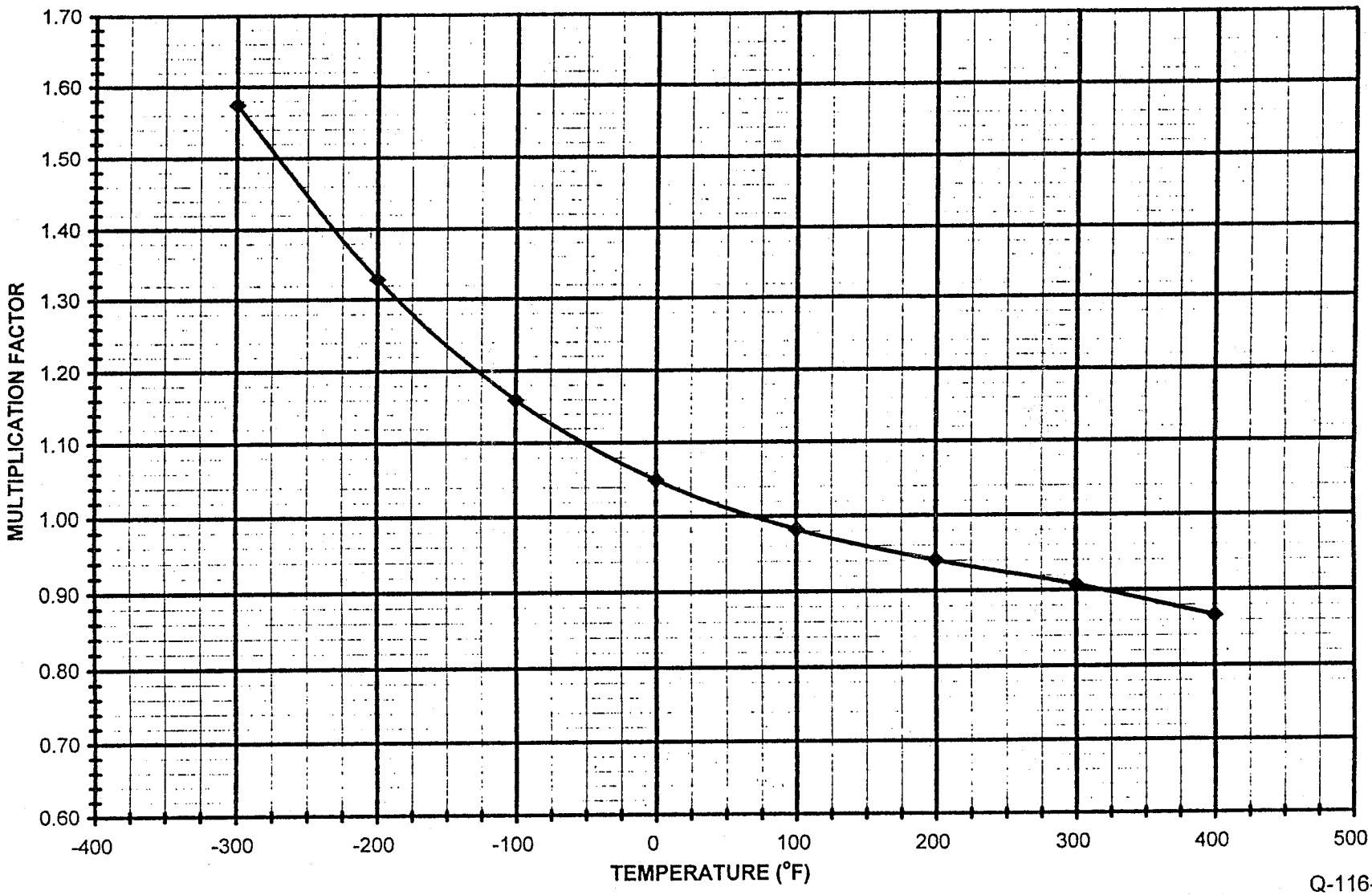
MICRO-FOIL HEAT FLUX SENSOR

OUTPUT MULTIPLICATION FACTOR VS RECEIVING SURFACE TEMPERATURE (70°F)

ISO 9001 CERTIFIED



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MICRO-FOIL™ HEAT FLUX SENSOR

CALIBRATION

RdF PART NO. 27070-1

SERIAL NO. 00067905

HEAT FLUX SENSOR:

Output at 70°F: 3.45 μV/BTU/ ft² hr

Polarity: (For heat flow into the surface)
White - Positive (+)
Red - Negative (–)

Temperature Multiplication Factor: See Attached Graph

*Thermal Resistance: 0.01 °F/BTU/ft² hr (Typ)

*Heat Capacity: 0.03 BTU/ft² hr/°F (Typ)

Response Time: 0.60 sec (62% response to step function) (Typ)

THERMOCOUPLE:

ANSI TYPE	MATERIAL	POLARITY	COLOR
K	Chromel	Pos. (+)	Yellow
	Alumel	Neg. (–)	Red

Output per ANSI MC96.1-1975 and NBS Monograph 125

*Thermal resistance is the temperature difference between the front surface and rear mounting surface of the sensor per unit of heat flow through the sensor. Heat capacity is the amount of heat required to raise the mean temperature of the sensor 1°F. Typical values of these two properties are given primarily to indicate sensor capabilities and are required for heat flow calculations only in very rare instances.

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MICRO-FOIL HEAT FLUX SENSOR

OUTPUT MULTIPLICATION FACTOR VS RECEIVING SURFACE TEMPERATURE (70°F)

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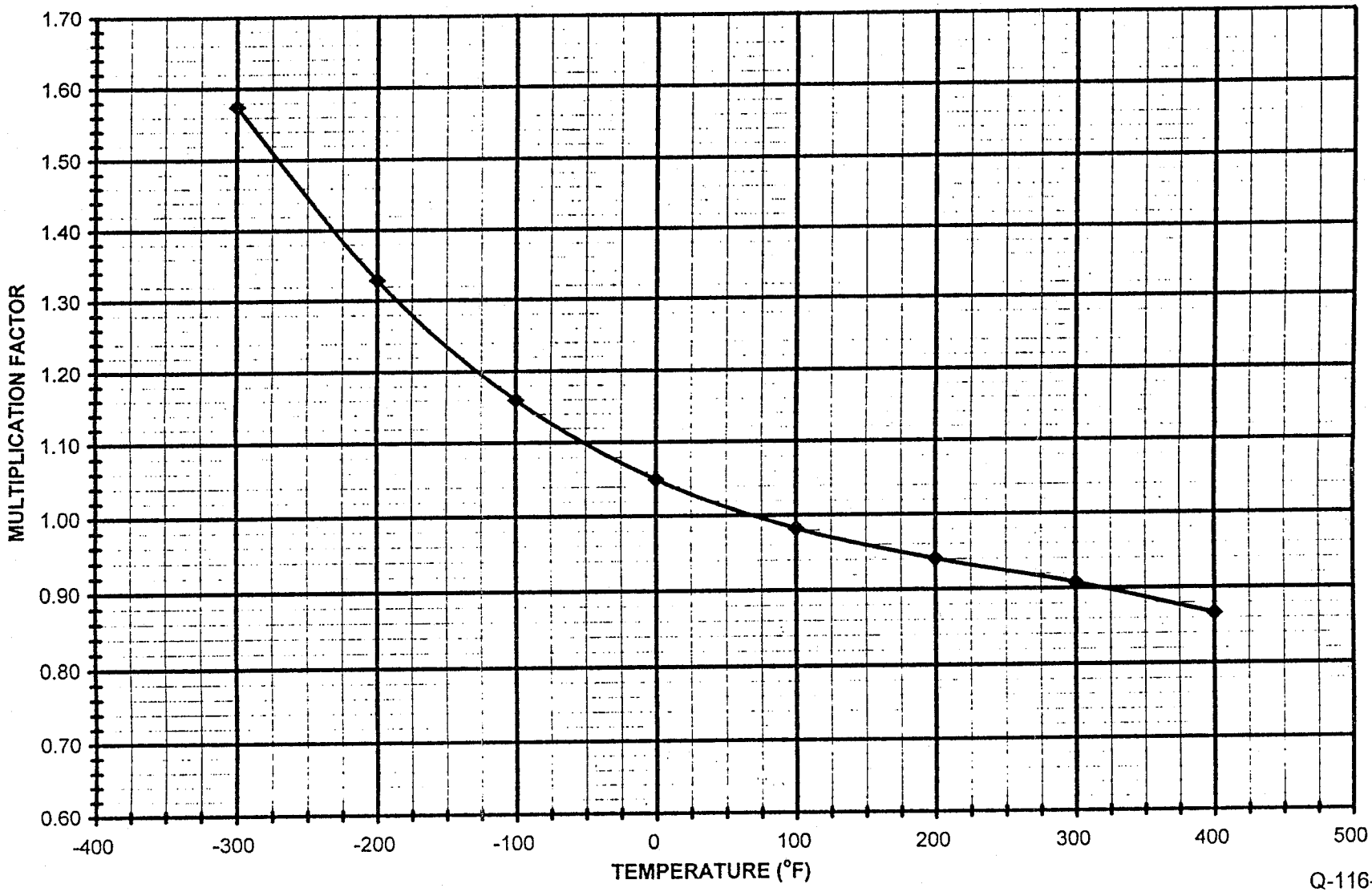

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