# Publication IEC 60825-1 (Second edition – 2007) I-SH 01

## SAFETY OF LASER PRODUCTS -

# Part 1: Equipment classification and requirements

#### INTERPRETATION SHEET 1

This interpretation sheet has been prepared by committee 76: Optical radiation safety and laser equipment.

The text of this interpretation sheet is based on the following documents:

ISH	Report on voting
76/415/ISH	76/418/RVD

Full information on the voting for the approval of this interpretation sheet can be found in the report on voting indicated in the above table.

### Subclauses 9.2 and 9.3

These subclauses are clarified by the following:

### Introduction

For emissions in the wavelength range of 400 nm to 1 400 nm, the need to perform measurements for Condition 2 (eye loupe viewing) can be greatly reduced by recognising that Condition 3 (unaided viewing) in many cases will be the most restrictive criterion.

## Interpretation

The following table outlines the process in this interpretation of IEC 60825-1, subclauses 9.2 and 9.3.

IF	THEN
Angular Subtense > 1,5 mrad @ 100 mm from the reference point	Condition 2 need not be considered
Angular Subtense ≤ 1,5 mrad @ 100 mm; or the angular subtense is not determined	Use simplified Condition 2, C <sub>6</sub> = 1
Optional for intermediate sources: Angular Subtense ≤ 1,5 mrad @ 100 mm AND > 1,5 mrad using Figure 5	CAN use Figure 5 (with $C_6$ determined using Figure 5) if simplified Condition 2 is too restrictive for the application