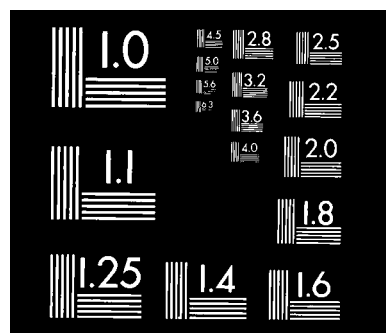
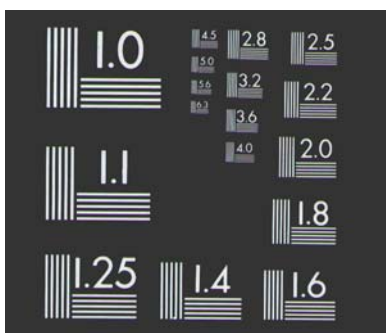




KODAK RELIABLE IMAGE TIP # 61

SOME THINGS TO KNOW ABOUT RESOLUTION

- **Definition:** The ability of optical systems and photo-materials to render visible fine detail of an object.
- A subjective measurement of finest detail that can be recorded by a micrographic system (camera, film, processing)
- *Excerpt from ANSI/AIIM MS23-1998, 7.2 Resolution*
 - *“While looking through the microscope, the inspector identifies the smallest pattern in which the five lines constituting the pattern can be distinguished in both directions (vertically and horizontally)”*
- **Some things that may affect resolution**
 - The contrast of the original document or target
 - Poor original or target (wrinkled, torn or dirty)
 - Environmental conditions (temperature and humidity)
 - The imaging system used to capture or retrieve the document or target (not in control, dirty optics, improper mechanical operation)
 - Poor contact between master and duplicating film during duplication
- **Resolution loss**
 - There is always some loss in resolution from one generation to another. Maximum loss should not exceed one pattern per generation. (Film to film, film to paper)



- **Note: Never use a copy of a resolution target for filming, always use an original.**