The Multiplier Phototube type 6836 is a 16-stage multiplier of the end-window type having an S-1 spectral sensitivity characteristic. To minimize cathode noise the active cathode in this tube is reduced to a central area of approximately 1/8-inch diameter. The tube is capable of detecting and measuring extremely weak sources of infrared radiation and will find its greatest application as a means of making photometric measurements in the region from 7000 to 12,000 angstroms wavelength. Because of its high signal-to-noise ratio this tube has found particular favor with the observatories in their work with faint and far distant celestial objects.