TABLE 46-F

MAXIMUM BRIGHTNESS RATIOS

	Environmental Classification		
	A	B	C
Between task and adjacent darker surroundings	3 to 1	3 to 1	5 to 1
Between tasks and adjacent lighter surroundings	1 to 3	1 to 3	1 to 5
Between tasks and more remote darker surfaces	10 to 1	20 to 1	*
Between tasks and more remote lighter surfaces	1 to 10	1 to 20	*
Between luminaires (or windows, skylights, etc) and surfaces adjacent to them	20 to 1	*	*
Anywhere within normal field of view	40 to 1	*	*

*Brightness Ratio control not practical

A-Interior Areas where reflectances of entire space can be controlled in line with recommendations for optimum seeing conditions

B-Areas where reflectances of immediate work area can be controlled but control of remote surroundings is limited

C-Areas (indoor and outdoor) where it is completely impractical to control reflectances and difficult to alter environmental conditions

Note From the normal view point brightness ratios of areas of appreciable size in industrial areas should not exceed those in the above table

From American National Standard A11 1–1973, Practice for Industrial Lighting, *Illuminating Engineering Society*

TABLE 46-G

LEVELS OF ILLUMINATION RECOMMENDED FOR SAMPLE OCCUPATIONAL TASKS

Area	*Foot-candles*	*Area*	*Foot-candles*
Assembly—rough, easy seeing	30	Materials—loading, trucking	20
Assembly—medium	100	Offices—general areas*	100
Building construction—general	10	Drafting rooms—detailed*	200
Electrical equipment, testing	100	Corridors	20
Elevators	20	Paint dipping, spraying	50
Garages—repair areas	100	Service spaces—wash rooms, etc	30
Garages—traffic areas	20	Sheet metal—presses, shears	50
Inspection, ordinary	50	Storage rooms—inactive	5
Inspection, highly difficult	200	Storage rooms—active, medium	20
Loading platforms	20	Welding—general	50
Machine shops—medium work	100	Woodworking—rough sawing	30

**From A132 1–1973, Office Lighting, published by the Illuminating Engineering Society Others from ANSI A11 1–1973* *See explanation on page 1449*