

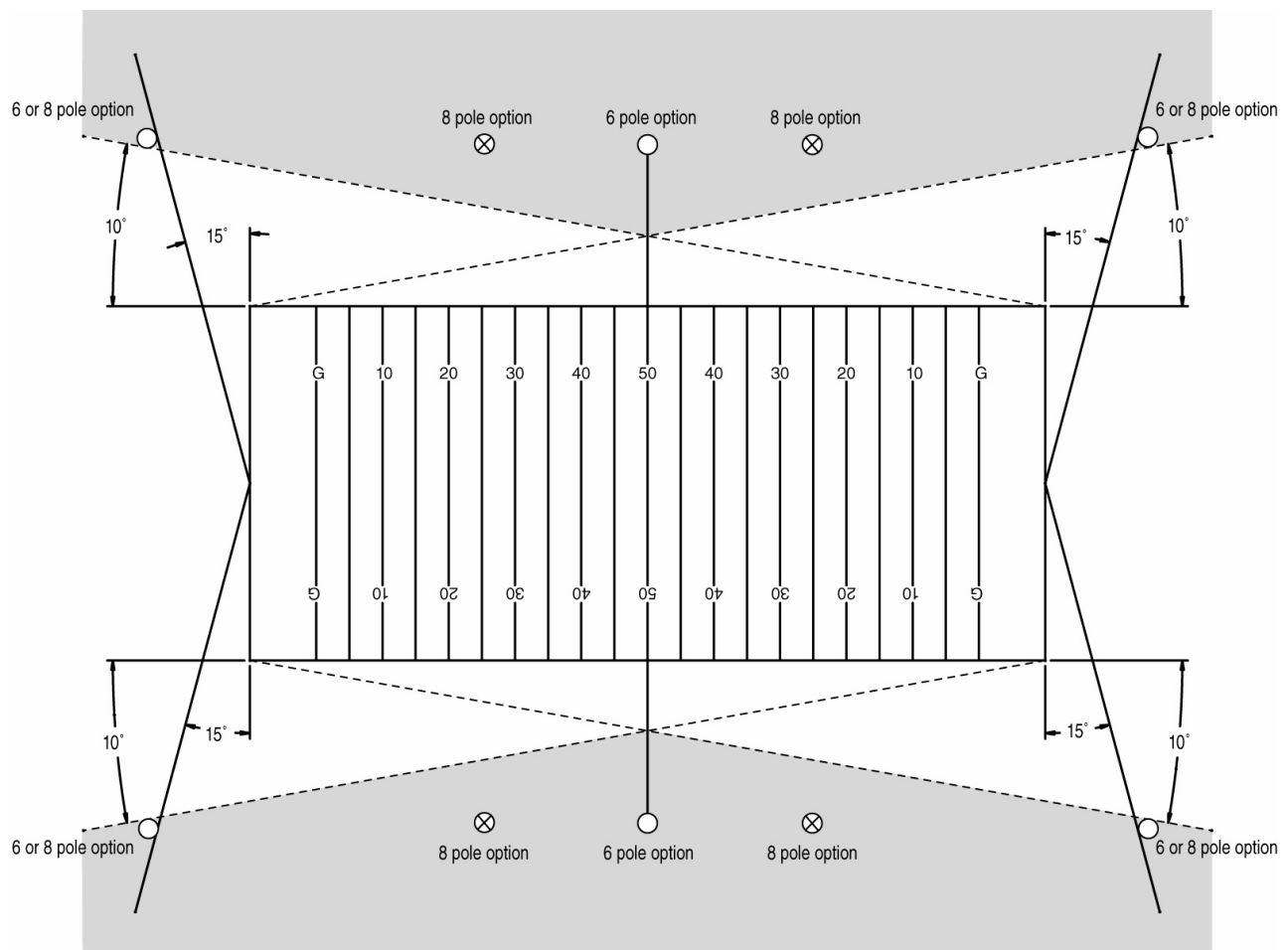


Best Lighting Practices: Football National Broadcast

Summary: Following these recommended best practices will help ensure quality of light needed for the safety of participants, enjoyment of spectators, and quality national television broadcasts, as required.

Typical stadium seating:	25,000 – 45,000 seats
Horizontal light levels:	100 footcandles
Horizontal uniformity:	1.7:1
Vertical light levels:	100 footcandles to 50-yard line high camera (main camera) 60 footcandles to end zone camera
Vertical uniformity:	1.7:1 to main camera
Grid spacing:	30 ft x 30 ft

Recommended pole placement:



1. Special consideration for lighting placement is given to stadiums with customized roof mount potential.
2. Shaded areas indicate recommended pole location. All poles should be at least 45 feet from sideline.
3. Setback of middle poles will depend on the presence of bleachers.
4. Outside poles should be located beyond end zone line. Optimum placement for TV is 15 degrees or greater off the end zone line for an end zone camera.
5. Pole placement and aiming angles shall be designed to minimize glare for players, spectators, and television cameras.
6. The ratio of keylight to backlight main camera levels should be between 1:1 and 1.5:1. A ratio of 1:1 is preferred.
7. For new facilities or upgrades, it is recommended to consult a lighting professional for optimal pole placement.