Name: 1	Period:
Parabola - Headlights -	Student Instructions
Click on link below, and scroll down until you find black GS	SP screen.
Click on this screen to activate aplet (in Geometer's Sketch	apad).
http://jwilson.coe.uga.edu/EMAT6680Fa08/Wisdom/EMAT	6690/Parabolanjw/reflectiveproperty.htm
Your goal, as a designer of a headlights for a new location of the light source so that the headlight s front of the car. By shining the most light in from brightly lit, so that you can avoid hitting the car just ran in front of your car.	shines the most light directly in nt of the car, the road will be
Start: Move the light source so that it sits on the inside cur LIGHT.	ve of the parabola, then click on EMIT
Observe the light pattern. Is this optimal?	
Experiment: Move the light source to different locations of directly in front of the headlight. Click on EMIT LIGHT ea	
Move the light source to the focal point (button). Click on E the light pattern.	EMIT LIGHT. Describe how this changes
Sketch what you see:	