

BEAM SPREADING

Name _____

Period _____ Date _____

Directions:

1. Shine a flashlight on a sheet of graph paper at an angle of 90° . With a pencil, draw the outline of the area lighted by the brightest part of the flashlight. Count the number of squares in this area. Record this information in the chart below
2. On another sheet of graph paper, shine the flashlight at an angle of 30° . Again, make an outline of the brightest part of the lighted area. Record the number of squares.

Angle	Number of Squares in Lighted Area
90°	
30°	

Conclusions:

1. How do you explain the different shapes of the light spots?

2. When is the area of the spot largest?

3. Which spot delivers the greatest amount of energy to the floor?

4. If you put a penny in each light spot, explain which one will receive the most energy?

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5. What influences does solar angle have on the heating of Earth?
