



The Ultimate Training Tool for FIRST LEGO League (FLL), FIRST Tech Challenge (FTC), and Similar Robotics Programs. ©2009 and Patent Pending Marco Ciavolino, TechBrick Robotics & Enktesis, LLC, sales@robotmats.com. Unauthorized duplication or production prohibited 1603 Belvue Drive / Forest Hill, MD 21050-2508 / 410-838-8264

**Mat Type:** General Practice / GPM005  
**Date Created:** 7/22/09  
**Author(s):** Marco Ciavolino  
**Mission Title:** Basic Line Counting to Target

**Suggested Prerequisites:** GPM001, GPM004

**Sensors:** Light Sensor/Color Sensor

**Mission Goals**

Add a field level light sensor to your basic robot. Place the robot on the horizontal bar in quadrant 1E and drive across the equally spaced black lines found in quadrants 3D-14F. Setup the robot to run out to a pre-determined number of bars and return. As a variation, for example, have it run out 7, back 3, out 4, back 2, etc. and always return to the wall. Or, make it programmable so you can choose the number of blocks to run out without reloading the program.

**Mission Participants**

**Date Completed** \_\_\_/\_\_\_/\_\_\_

**Record Your Steps Below**

STEP	Task	Notes
1.		
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STEP	Task	Notes
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