1 Introduction

This document describes the functionality provided by the labelit.distl wrapper. Labelit.distl is a simple interface to the DISTL library (Automated diffraction image analysis and spot searching for high-throughput crystal screening, Z. Zhang, N. K. Sauter, H. van den Bedem, G. Snell and A. M. Deacon.)

This program produces the following output:

```
                  File :  12287_1_E1_001.img
           Spot Total :    1568
   In-Resolution Total :    1421
  Good Bragg Candidates :    1135
            Ice Rings :       2
   Method 1 Resolution :    1.78
   Method 2 Resolution :    1.90
      Maximum unit cell :   242.8
%Saturation, Top 50 Peaks :   14.35

Bin population cutoff for method 2 resolution: 20%
```

That is, the overall number of "good" spots and an indicator of the resolution of the diffraction. This information needs to be provided at the API layer for image screening.