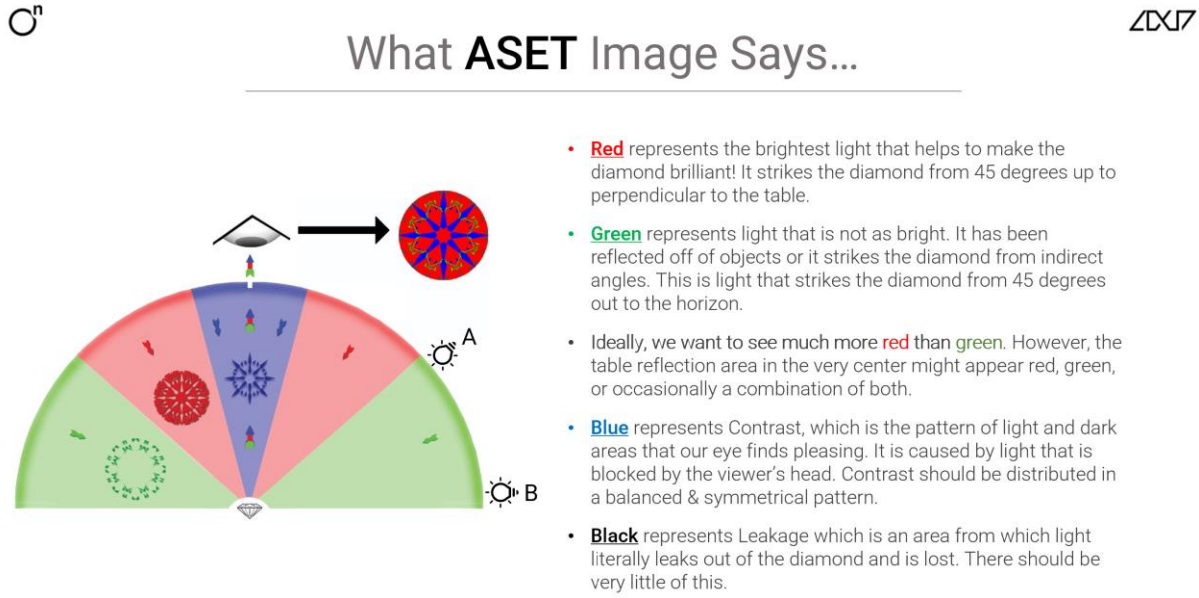
Further query to KGK's presentation January 5th, 2022

One of the readers asked to explain slides # 6 and 7



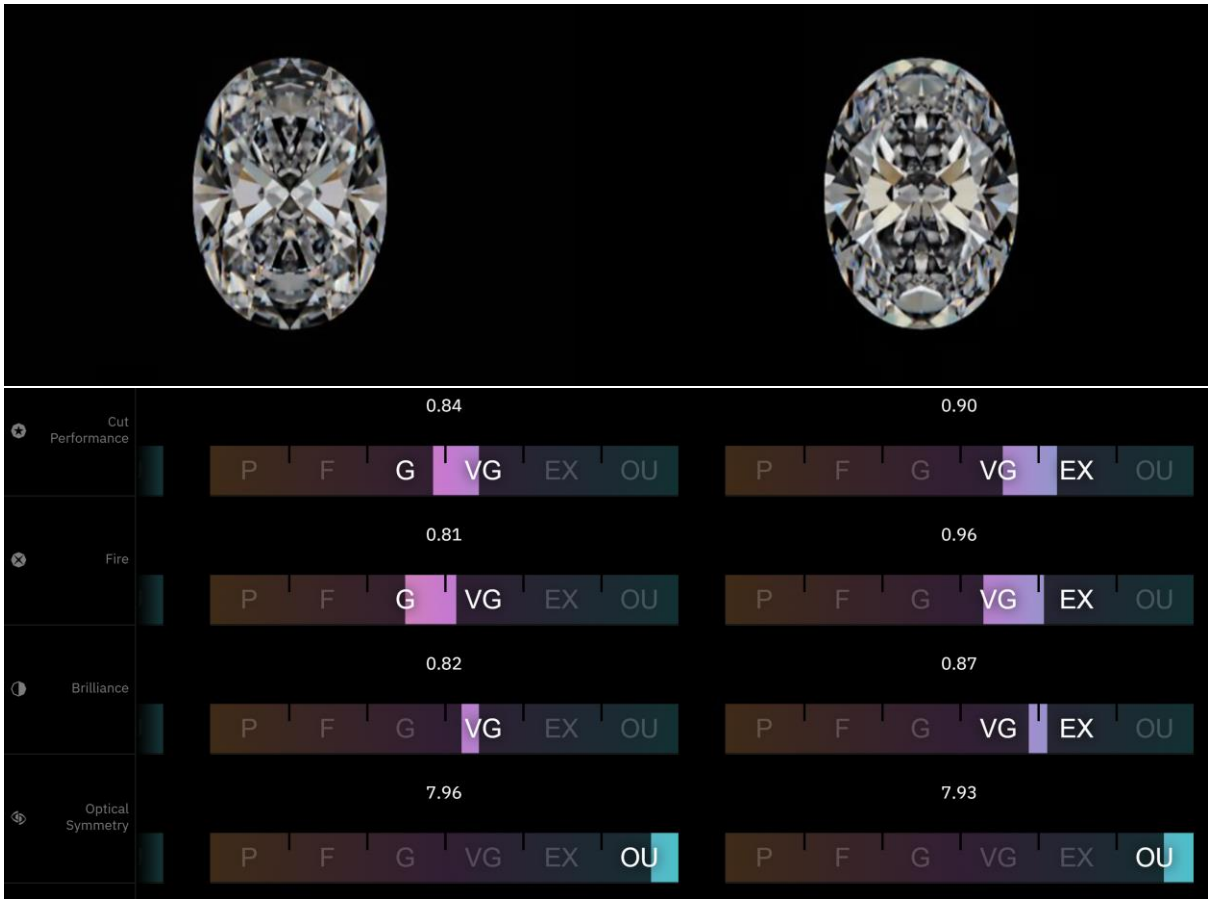

At the outset, we have to understand that ASET could be used to initiate the design of a cut. But it cannot be used to evaluate the optical performance of the diamond.

It is difficult to replace the GREEN zone by the RED zone in many of the Fancy shape diamonds. The Green zone extends from horizon to 45˚. This is the space believed to have the secondary light source. Now consider the light source "A" very close to 40-45˚ away from the horizon, and the light source "B", very close to the horizon. In real life, considerable light will be present in the zone around "A", but very little around "B". While, when you study the ASET image of the polished diamond, both these areas will carry the same weightage. Further, some part of the leakage may add to the contrast, and contribute towards brilliance (perceived brightness because of local contrast).

So it is important to study the diamond under real-life lighting conditions, to understand the optical performance of a diamond.

Now let's look at two diamonds published on Slide # 7.

Looking at the ASET image, one may judge that the diamond on the left will have a little better optical performance. But the actual situation is quite opposite. See real-life images of the diamonds and their performance score:

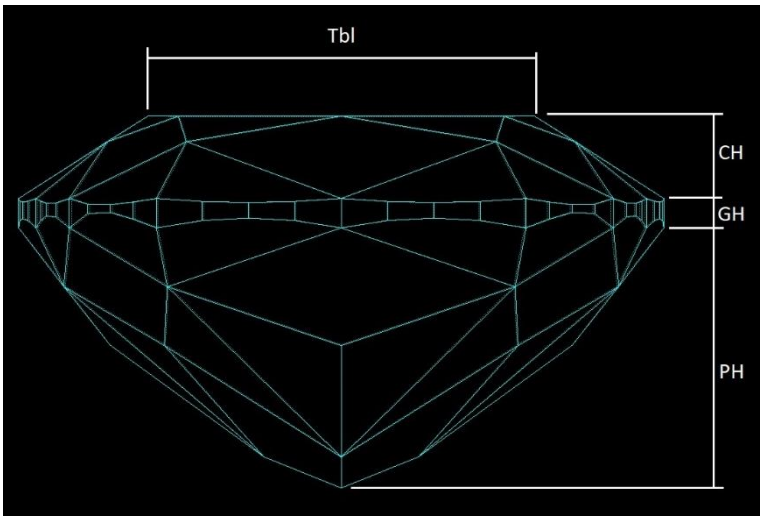



Study solutions # 13 and 14 on the following link:
https://cutwise.com/projects/9d8eec75-92ab-413a-b7cd-028326b056ed/solutions?mediaSize=l

Here we can see that solution #14 which has a little weaker ASET image, has the GREEN zone coming from the area where more light is present in real-life situations.

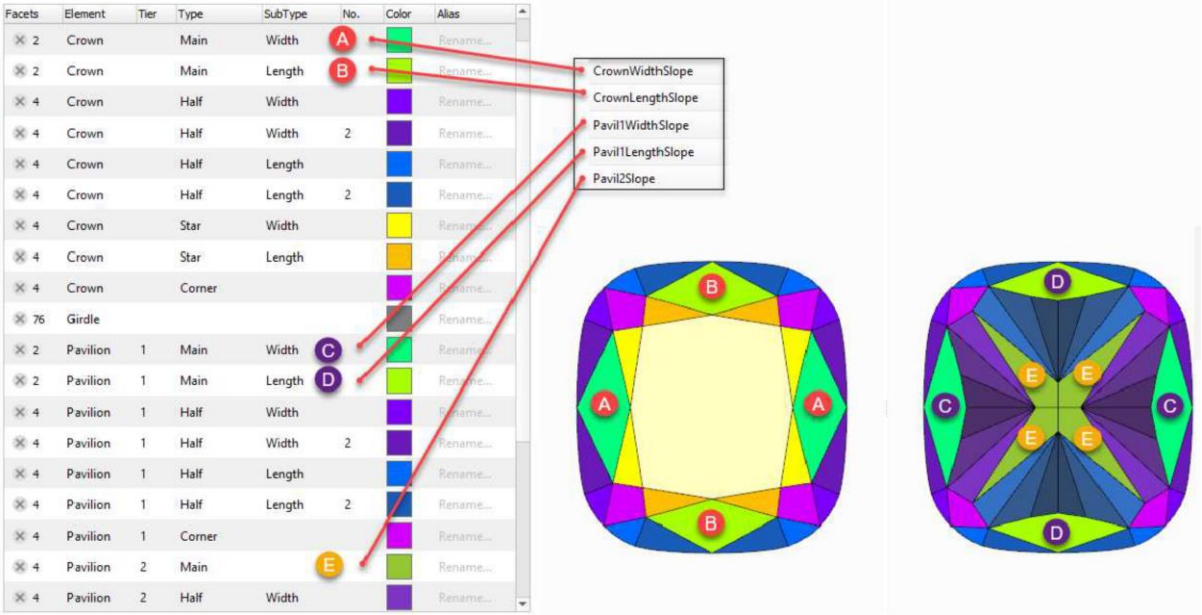
## Another reader inquired to understand what is GOODWIN:

Before we explain this, let's understand how the allocation is done in a rough.
For all non-DLL Fancy cuts, software typically uses ASC files.




ASC file permits to vary only 4 to 5 parameters within user-defined limits: They are Crown Height, Girdle Height, and Pavilion Height. In certain cases, it allows change in L/W ratio and Table size.

GOODWIN allows the software to vary many more parameters to maximize mass recovery and optimize the optical look of the diamond.




Further, the SMART AnyCut Goodwin brings out multiple plans with different levels of parameter variation within the user-defined range. The photoreal render helps the sales team select the most profitable solution from the list. See the example on the following link again: https://cutwise.com/projects/9d8eec75-92ab-413a-b7cd-028326b056ed/solutions?mediaSize=l