

Re: retroreflector with offset angle?

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Source: <http://sci.tech-archive.net/Archive/sci.optics/2008-08/msg00102.html>

- *From:* Guy Macon <<http://www.GuyMacon.com/>>
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Boxman wrote:

Check out this patent (US RE40455) for a pretty detailed explanation of modern retroreflector designs

I believe that this is a reissue of patent number 6767102.

Following through the references, I found patent numbers 3833285 and 4775219, which answer the specific question of how to make the reflector shine more into the driver's eyes and less into his headlights.

<http://patft.uspto.gov/netahtml/PTO/srchnum.htm>

<http://www.google.com/patents?q=3833285>

<http://www.google.com/patents?q=4775219>

"the groove side angles are chosen so as to form cube-corner retroreflective elements that concentrate more reflected light into certain regions of the divergence profile of the retroreflective article than in other regions."

Figures from above patents:

<http://www.google.com/patents?id=Qj40AAAAEBAJ&pg=PA5>

<http://www.google.com/patents?id=Qj40AAAAEBAJ&pg=PA6>

<http://www.google.com/patents?id=j-cqAAAAEBAJ&pg=PA4>

<http://www.google.com/patents?id=J1U0AAAAEBAJ&pg=PA2>

<http://www.google.com/patents?id=Qj40AAAAEBAJ&pg=PA2>

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