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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MOBILEYE GLOBAL, INC.,

Petitioner,

v.

FACET TECHNOLOGY CORP.,

Patent Owner.

IPR2024-01110

U.S. Patent No. 9,335,255

REMOTE DEPOSITION OF

NIKOLAOS P. PAPANIKOLOPOULOS, PH.D.

September 4, 2025

9:51 a.m. CST

Reported by:

Janice M. Koczek, CSR, CLR

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1 The videotaped deposition of
2 NIKOLAOS P. PAPANIKOLOPOULOS, PH.D., via Zoom
3 videoconferencing, reported stenographically by
4 Janice M. Kocek, License No. 084-002871,
5 Certified Shorthand Reporter, Certified LiveNote
6 Reporter, and Notary Public of the state of
7 Illinois, commencing at the hour of 9:51 a.m.
8 CST, on the 4th day of September, 2025.

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1 A P P E A R A N C E S :

2 ** ALL PARTIES APPEARING REMOTELY **

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I N D E X

NIKOLAOS P. PAPANIKOLOPOULOS, PH.D.	PAGE
Examination by Mr. High	5

E X H I B I T S

EXHIBITS REFERRED TO

Exhibit 1014	SPIE "Optics, Illumination, and Image Sensing for Machine Vision V"
Exhibit 2023	Declaration of Nikolaos Papanikolopoulos, Ph.D., In Support of Patent Owner's Response
Exhibit 2024	Curriculum Vitae of Nikolaos P. Papanikolopoulos, Ph.D.

REPORTER'S NOTE: All quotations
are used for clarity and are
reflected in the manner in which
they were read into the record
and do not necessarily indicate
an exact quote from the document.

1 (Witness sworn.)

2 NIKOLAOS P. PAPANIKOLOPOULOS, PH.D.,
3 called as a witness herein, having been first
4 duly sworn, was examined and testified as
5 follows:

6 EXAMINATION

7 BY MR. HIGH:

8 Q. All right. Good morning, Dr. Nikos.

9 A. Good morning.

10 Q. We met yesterday. But just to 09:51
11 introduce myself again for the record, my name
12 is Robert High.

13 Can you state your full name for the
14 record, please?

15 A. I'm Nikolaos Papanikolopoulos, or 09:51
16 Nikos Papanikolopoulos, and you can call me
17 Nikos.

18 Q. Thank you.

19 And where are you located today?

20 A. Minneapolis, Minnesota. 09:51

21 Q. Is there anybody else in the room
22 with you?

23 A. Nope.

24 Q. And we're here for IPR2024-01110.

25 You submitted a declaration for that IPR, 09:51

6

1 correct?

2 **A. That's correct.**

3 Q. Do you understand that you're under
4 oath today?

5 **A. I do.** 09:51

6 Q. Is there anything that may impact
7 your ability to give true and honest testimony
8 today?

9 **A. The best of my knowledge, no.**

10 Q. And is it okay if we follow the same 09:52
11 ground rules as yesterday?

12 **A. Yes.**

13 Q. Do you need me to repeat those or do
14 you think you remember them?

15 **A. I think I remember them. If I need 09:52
16 clarification, if you don't mind, I may ask you.**

17 Q. Okay. That's -- that sounds great.
18 I'd be happy to say them again. So thank you.

19 **A. I have all the files and an empty --
20 so I don't have any -- I have a web browser that 09:52
21 has a link in case we lose connection.**

22 Q. And no other programs running besides
23 the browser with the link and the Zoom?

24 **A. And the Zoom and I have the PDF to
25 open the -- the three exhibits.** 09:52

7

1 Q. And do you have any printed
2 materials with you today?

3 A. Yes, I have -- I show you. I have
4 this folder that the counsel provided. We have
5 copies. 09:53

6 Q. Is that your declaration and --

7 A. It's my declaration.

8 Q. -- and the IPR?

9 A. Just give me one minute. It's the
10 petition, the patent, the expert declaration of 09:53
11 Chuck Thorpe, my declaration, Gallagher, and
12 Lumia.

13 Q. And do any of those documents have
14 markings on them or are they, you know, as they
15 were filed? 09:54

16 A. As they were filed. They are
17 completely empty of any highlights or...

18 Q. And do you have any notes with you
19 today?

20 A. Nope. 09:54

21 Q. What did you do to prepare for your
22 deposition today?

23 A. I reviewed my declaration, the prior
24 art pertinent to the case. And I had some phone
25 conversations with counsel. 09:54

8

1 Q. Is that counsel Mr. Saunders?

2 A. Yes.

3 Q. Did you talk with anybody else in
4 preparation for your deposition?

5 A. No. 09:55

6 Q. About how many times did you talk
7 with Mr. Saunders?

8 A. I talked to Mr. Saunders just once
9 since yesterday. And then the other times, as I
10 mentioned previously, that covered the other 09:55
11 patent, some elements of this -- of this
12 particular IPR.

13 Q. Other than your -- sorry. Let me
14 back up.

15 So you said you reviewed your 09:56
16 declaration and the prior art pertinent to the
17 case.

18 Did you review any other materials to
19 prepare for your deposition today?

20 A. No. The best I try to focus -- I try 09:56
21 to refresh my memory since it have been at least
22 three months since I -- roughly three months
23 since I looked at the material.

24 Q. I believe yesterday you testified
25 that you got involved in that IPR for the first 09:56

9

1 time sometime in May of this year. Was it about
2 the same time that you got involved in this IPR?

3 **A. Yeah, I was contacted, I believe,**
4 **sometime in April, in mid-spring 2025. I don't**
5 **recall which one I did first, which IPR I did** 09:57
6 **first. But I signed this one, I believe, on**
7 **June 16 if my memory serves me well.**

8 Q. Okay. So it was about April, May,
9 June or so when you first got involved with this
10 IPR? 09:57

11 **A. That's correct.**

12 Q. In preparing your declaration did you
13 review the '255 patent?

14 **A. I did.**

15 Q. And you understand that the '255 09:57
16 patent is the patent that is the subject of this
17 IPR, right?

18 **A. That's correct.**

19 Q. And did you review the IPR petition?

20 **A. Yes, I look quickly, but I mainly** 09:58
21 **look at my declaration and the two -- Lumia and**
22 **Gallagher.**

23 Q. You have a copy of your declaration
24 with you, right?

25 **A. Yes. Do you want me to...** 09:58

10

1 Q. Sure. If you want to just turn to
2 paragraph 20, which is your materials
3 considered.

4 A. Yeah. Let me go there. Give me a
5 minute. Yes.

09:58

6 Q. In this paragraph you say that you
7 considered the petition and attached exhibits in
8 formulating your opinions?

9 A. Yes, among other things.

10 Q. Did you consider all of the attached
11 exhibits?

09:59

12 A. At the time that I drafted
13 declaration, yes.

14 Q. And you also considered the patent
15 owner preliminary response in formulating your
16 opinions?

09:59

17 A. That's the case.

18 Q. And petitioner's preliminary reply?

19 A. That's correct.

20 Q. And patent owner's preliminary
21 surreply?

09:59

22 A. That's correct.

23 Q. The Board's decision on institution?

24 A. That's right.

25 Q. Did you consider any other

10:00

11

1 information that's not listed in paragraph 20
2 when formulating your opinions?

3 **A. I think I have a list of exhibits I**
4 **considered and also materials which I cite**
5 **elsewhere in this declaration.**

10:00

6 **Do you see at the -- on page 10 of my**
7 **declaration there are different exhibits?**

8 **Q. Yeah. So you considered the exhibits**
9 **listed in that table that spans pages 10 and 11,**
10 **and you considered the materials cited elsewhere**
11 **in your declaration.**

10:01

12 **Are you aware of any other**
13 **information that you considered but didn't**
14 **specifically list or cite?**

15 **A. Best of my knowledge or recollection,**
16 **no. And of course, I relied -- I relied on my**
17 **training, knowledge, and experience as they are**
18 **relevant to the '255.**

10:01

19 **Q. In paragraph 21 you say (as read):**
20 **In particular, I have reviewed Patent Owner**
21 **Exhibit Nos. 2009 to 2014 and 2027 to 2029.**

10:01

22 **Do you see that?**

23 **A. That's exactly -- yes, that's correct.**

24 **Q. And you indicated that some of those**
25 **are journal articles or book publications,**

10:01

12

1 right?

2 **A. That's correct.**

3 Q. And you state that (as read): They

4 appear to be authentic because they are

5 formatted and written consistently with genuine 10:02

6 publications based on your experience reviewing

7 similar publications.

8 **A. That's correct.**

9 Q. What's your general understanding of

10 the formatting for journal articles? 10:02

11 **A. Is the article IEEE format, there are**

12 **notes, the links to IEEE Xplore.**

13 **(Stenographer clarification.)**

14 THE WITNESS: To IEEE, I-E-E-E,

15 Xplore. It's like a database of 10:02

16 publications.

17 BY MR. HIGH:

18 Q. So I was talking more generally about

19 the publications themselves. How do you --

20 what's your general understanding of how journal 10:03

21 articles are formatted and written?

22 **A. So I'm aware of the major publications.**

23 **and then the IEEE format is generally two-column**

24 **format with a particular set of format for the**

25 **citations. And there is -- if I go to the IEEE 10:03**

13

1 **Xplore, it says in -- it says in small font the**
2 **venue. And from the venue I can understand if**
3 **this was reviewed, peer-reviewed, so on and so**
4 **forth.**

5 Q. The journal articles generally have 10:03
6 sections like an introduction and a background
7 section?

8 A. That's correct.

9 Q. Are there any other sections that are
10 generally included in journal articles? 10:04

11 A. It depends. For example, we have --
12 in journal articles you may have a tutorial
13 whose structure is completely different than a
14 piece of theoretical work. Or you may have a
15 paper that is publication oriented that may put 10:04
16 more emphasis on the details of the implementation.

17 Q. When you review journal articles, do
18 you generally read them from start to finish?

19 A. I'm trying.

20 Q. Do you generally try to read the 10:04
21 journal articles from start to finish?

22 A. I try -- I'm trying to see -- first
23 of all, I'm trying to understand the main idea
24 reflected. And then I focus -- depending on the
25 task I have. 10:05

14

1 **If it is a review for a promotion**
2 **case of a faculty member, I'm just reading the**
3 **whole thing. If it is a review for a conference,**
4 **I'm trying to read the sections which are**
5 **pertinent to the questions asked by the** 10:05
6 **committee. If it's a tutorial, I'm trying to**
7 **see how comprehensive it is.**

8 **So I try to read everything. But**
9 **depending on the task I may have -- I may spend**
10 **different amounts of time and attention to the** 10:05
11 **different parts of the paper.**

12 Q. When you write journal articles, do
13 you generally expect that people might read the
14 entire thing?

15 A. Are you asking now or you're asking 10:06
16 in 2001?

17 Q. Now.

18 A. Especially now I'm expecting them to,
19 first of all, not use AI tools and also not copy
20 from others, because this is -- this is pretty 10:06
21 prevalent.

22 Q. I was asking about articles that you
23 personally write. When you write journal
24 articles, do you generally expect that somebody
25 might read each section of the journal article? 10:06

15

1 **A. This is my hope. It doesn't mean**
2 **that happens.**

3 **Q. Let's take a look at the Lumia**
4 **reference. I believe you have a copy of it with**
5 **you. That's Exhibit 1014.** 10:07

6 **A. Sure. Let me bring it up. Do you**
7 **want me to go somewhere specifically or just...**

8 **Q. Just start with the cover page of the**
9 **actual article itself and skip past the front**
10 **matter.** 10:07

11 **A. Yes.**

12 **Q. Lumia is titled "A mobile system for**
13 **measuring retroreflectance of traffic signs."**

14 **A. Yeah. Let me -- let me go -- I think**
15 **what is pertinent to your question is actually,** 10:08
16 **when I look at the SPIE Publications, they have**
17 **a different type of -- a less strict review**
18 **process.**

19 **So just based on the earlier**
20 **question, so this is -- do you want me to read** 10:08
21 **the title of the -- of the Proceedings or**
22 **basically the title of the paper -- of the**
23 **particular paper by Lumia?**

24 **Q. The title of the particular paper by**
25 **Lumia, which starts on page -- I'll call it** 10:09

16

1 page 15, but it's the number on the bottom
2 right-hand corner of the -- the natively
3 included --

4 **A. Yeah. "A mobile system for measuring**
5 **retroreflectance of traffic signs."**

10:09

6 **Q. You reviewed the Lumia publication**
7 **before preparing your declaration, right?**

8 **A. That's correct.**

9 **Q. What is retroreflectance?**

10 **A. In general, or -- because I offer an**
11 **opinion, just to be accurate, in my -- in my**
12 **report?**

10:09

13 **Q. We'll start in general.**

14 **A. So a POSITA at that time would**
15 **understand retroreflective materials, thus a**
16 **POSA would have a source. Basically**
17 **retroreflective materials as they receive the**
18 **light, the photons of light, they bounce it back**
19 **directly to the light source.**

10:10

20 **So depending on the type of materials**
21 **and other factors, such as the relevant**
22 **geometry, more or less light may come back. And**
23 **this is difference from generally a mirror, for**
24 **example, because you have scattering of the**
25 **light.**

10:10

10:10

17

1 Q. Traffic signs at this time were often
2 made from retroreflective materials, right?

3 A. That's correct.

4 Q. So the retroreflective materials
5 would help drivers see at night because their 10:11
6 headlights would hit the retroreflective
7 materials and bounce back at them, right?

8 A. That's correct. Although here if you
9 look at the abstract it says (as read): A
10 mobile system has been developed which can 10:11
11 measure the average retroreflectance --

12 (Stenographer clarification.)

13 THE WITNESS: I'm reading from the
14 abstract. Sorry. Yes.

15 (As read): A mobile system has 10:11
16 been developed which can measure the
17 average retroreflectance of sign legend and
18 background from a moving vehicle during
19 daylight hours.

20 BY MR. HIGH: 10:11

21 Q. So Lumia is talking about trying to
22 measure the retroreflectance value during
23 daylight, right?

24 A. Yeah. But if you go in the -- in the
25 page -- let me tell you. If you look at -- on 10:12

18

1 page of the paper, page 20 and after, it seems
2 more a simulation at the -- basically at the
3 particular distance with a van being static.

4 In fact, if you go -- Experimental
5 Results, it seems this was done in the 10:13
6 laboratory. And it says at the end just before
7 the conclusions on page 26, it says, the last
8 sentence before the conclusions, Section 7,
9 (as read): The data for the experimental
10 results reported above were obtained with a 10:13
11 vehicle in a stationary position. Vehicle speed
12 is expected to have a minimal impact on sign
13 measurement accuracy, as discussed previously in
14 Section 5.5.

15 Q. So just focusing on traffic signs 10:14
16 generally, and not specifically the measuring
17 system that Lumia is designing, traffic signs
18 generally can be made of different types of
19 retroreflective materials, right?

20 A. That's correct. 10:14

21 Q. You could have -- you could have
22 retroreflective sheeting or retroreflective
23 glass beads, right?

24 A. That's right. Among other choices.

25 Q. Yeah. And within the broader 10:14

19

1 category of retroreflective sheeting, Lumia says
2 that you can have different types of
3 retroreflective sheeting, right?

4 **A. Can you point me where it says this?**

5 **I don't recall. I recall something** 10:15

6 **in the patent itself, but I don't recall Lumia.**

7 **Can you point me where Lumia says**
8 **this?**

9 Q. So the first paragraph of the
10 background section on page 15. 10:15

11 **A. Just give me a minute.**

12 Q. There's a sentence that starts "three
13 types of sheeting."

14 **A. Just give me a minute to go there.**

15 **The third sentence you mean?** 10:15

16 Q. The third sentence, yes.

17 **A. Yes, I see it.**

18 Q. Fourth sentence I guess. It says (as
19 read): Three types of sheeting are commonly
20 used for highway signs. 10:16

21 And it lists three different types,
22 right?

23 **A. Yeah. As of 1990 the paper was**
24 **written.**

25 Q. Are there more since then? 10:16

20

1 **A. I think there are new technologies.**
2 **for example, we have the major producer of**
3 **retroreflective material in town, 3M. So they**
4 **have some amazing materials over the years. So**
5 **I will say for a -- 1990 this is a reasonable**
6 **summary.**

10:16

7 **Q. And the retroreflective properties of**
8 **the sign will change depending upon the type of**
9 **material that's used, right?**

10 **A. Yes. And also the whole**
11 **retroreflection will be dependent on the**
12 **geometry, on several other factors. It's a**
13 **complex system of interactions.**

10:17

14 **Q. So at least as of this time you could**
15 **have road signs whose retroreflective properties**
16 **change depending upon the type of material used?**

10:17

17 **A. What do you mean by changing -- I**
18 **mean, changing --**

19 **Q. So let's say you have a speed limit**
20 **sign and the design is otherwise the same but**
21 **the retroreflective material is different.**

10:18

22 **Those two signs might have different**
23 **retroreflective properties, right?**

24 **A. Yes, but you have -- you have to look**
25 **also at the material, at the material's**

10:18

21

1 environment. In other words, if you have -- let
2 me tell you, I have -- we have a system that
3 uses signs along with magnetometers in order to
4 have autonomous operation of a snowplow.

5 The properties may be affected by the 10:18
6 relative humidity and the temperature as well.
7 And the ambient -- what we see, what we perceive
8 as light, as the luminance, it may be different.

9 So there are many factors that come
10 into play, including the material, including the 10:19
11 geometry, and including several other things.

12 Q. And when Lumia is using the term
13 "retroreflectance," it's referring to the
14 coefficient of retroreflection, right?

15 MR. SAUNDERS: Objection. Form. 10:19

16 THE WITNESS: He uses several terms
17 like -- you said general summary. I don't
18 know if you see page -- actual page
19 number 16. But if you go to the
20 implementation, specifically is measuring 10:20
21 light intensity in the values between zero
22 and 255. If you go to -- if you go -- let
23 me see. If you go to Figure 3.

24 BY MR. HIGH:

25 Q. Figure 3. That's page 17. 10:20

22

1 **A.** **It's page 17 of the document, of the**
2 **paper, sorry. If you see there is a description**
3 **-- let me see. Just give me one minute.**

4 **Do you see Figure 3(b)?**

5 **Q.** **Yes.** 10:21

6 **A.** **So basically he has the gray levels**
7 **-- so he measures -- he tested from 0 to 255.**

8 **Q.** Those intensities are not
9 retroreflectances, right?

10 **A.** **No.** 10:21

11 **Q.** And so you go back to page 16, that
12 very first line, it says (as read): The goal of
13 this system is to measure the coefficient of
14 retroreflection.

15 Do you see that? 10:22

16 **A.** **Let me -- let me go there. Tell me**
17 **again. Page 16?**

18 **Q.** Page 16, the very first line. It
19 says (as read): The goal of this system is to
20 measure the coefficient of retroreflection. 10:22

21 Do you see that?

22 **A.** **Yeah.**

23 **Q.** So ultimately the coefficient of
24 retroreflection is the value that Lumia is
25 trying to determine for the road signs it 10:22

23

1 measures, right?

2 A. The intention.

3 Q. Yes.

4 A. Or at least for the time being, as I

5 mention, the only evidence I have is the 10:22

6 histograms which he's doing are referring to

7 intensity values, as Dr. Thorpe also testified.

8 Q. The coefficient of retroreflection is

9 expressed in units of candelas per footcandle

10 per square foot. That's what Lumia says on 10:23

11 page 16, right?

12 A. That's according to Lumia, yes.

13 Q. Another common unit for that

14 coefficient of retroreflection is candelas per

15 lux per meter squared, right? 10:23

16 A. Yes, because the lux is equal lumen

17 per area unit.

18 Q. And equations 1 and 2 on page 16 both

19 disclose expressions for the coefficient of

20 retroreflection, right? 10:24

21 A. It says (as read): By suitable

22 manipulation of these parameters, the

23 retroreflectance can essentially be...

24 I think there is an oversimplification

25 here, but according to him this -- although, I 10:24

24

1 **don't believe he uses -- it's just -- I don't**
2 **think he uses at least -- I'm pretty sure he**
3 **doesn't use equation number 2.**

4 Q. Equation 1 discloses that
5 retroreflectance is the reflected intensity 10:24
6 divided by the normal illumination incident on
7 the retroreflector multiplied by the area of the
8 surface to be measured, right?

9 A. **Are you referring to equation 1?**

10 Q. Yes. 10:24

11 A. **That's correct.**

12 Q. And equation 2 discloses that
13 coefficient of retroreflectance is the luminance
14 of the reflected light divided by the normal
15 illumination incident on the retroreflector, 10:25
16 right?

17 A. **Yes, according the equation 2 and the**
18 **use of his symbols.**

19 Q. What are the units of luminance?

20 A. **Let me -- did I mention this? Bear** 10:25
21 **with me one minute.**

22 **So if you go to my report,**
23 **paragraph 75 (as read): Luminance is a**
24 **measurement of the amount of light traveling per**
25 **unit area in a given direction -- and I want to** 10:26

25

1 **emphasize -- so how much light the surface**
2 **emits, and provided in units like candelas per**
3 **square meter or candelas per square foot.**

4 Q. Okay. So candelas per square meters
5 is one type of unit for luminance? 10:26

6 A. **Yes.**

7 Q. And candelas per square foot is
8 another one?

9 A. **That's correct.**

10 Q. And what are the units of the normal 10:26
11 illumination?

12 A. **Are you referring to a particular --**
13 **because generally when we talk about**
14 **illumination, we are talking about illuminance.**

15 Q. So I guess in that same paragraph, 10:27
16 paragraph 75, you say illuminance is provided in
17 units of lux. Right?

18 A. **Yeah. And I'm saying lux is defined**
19 **as one lumen per square meter.**

20 Q. And that lux unit is what would be 10:27
21 used for the E sub n value in equation 2, right,
22 the normal illumination?

23 A. **Can you repeat the question?**

24 Q. Sure. I'll rephrase it.

25 So in equation 2 the denominator 10:28

26

1 E sub n, that would be expressed in units of
2 lux, l-u-x, right?

3 A. Let me backtrack because there is a
4 -- sorry. If I'm allowed, let me explain a
5 little bit what is going on from the physics 10:28
6 perspective from the objects. And then I can --
7 I can go into the question.

8 So illumination is -- think of a
9 light source and we have a surface. Regardless
10 of -- of the direction, illuminance is how much 10:29
11 of the light is received by the surface.

12 Now, luminance is when this light,
13 these photons, interact with the material or the
14 surface, then we get a measurement of the light
15 that is provided by this material back to us in 10:29
16 a given direction. And this is the luminance.

17 So if we go to the Figure 2, which
18 again is a general background description -- and
19 the reason I'm saying that is actually there is
20 a cosine theta which has to do with certain -- 10:29
21 with the direction. We have to be careful on
22 how we use the term.

23 Q. So I was just referring to the units
24 of the denominator. So in equation 2 the units
25 would be units of lux or an equivalent unit, 10:30

27

1 right?

2 A. Yeah, but he talks about the normal
3 illumination. Do you see what I mean? So what
4 he means is that it's not the term -- it's a
5 very -- it's a mathematical abstraction. 10:30
6 Somehow he implies there is a normalization
7 process. And I don't know if this is a
8 normalization per power, normalization per unit,
9 and so on and so forth.

10 Q. Just to be clear, do you agree or 10:31
11 disagree that the units of the denominator in
12 equation 2 are lux or some equivalent unit?

13 A. It's something which is related to
14 lux, but using the term "normal illumination" is
15 not the illuminance as a POSITA will have known. 10:31

16 Q. If I knew the normal illumination,
17 equation 2 says that I can calculate the
18 coefficient of retroreflectivity if I also know
19 the luminance value, right?

20 A. Based on this equation one could try, 10:32
21 but require an equation as an abstraction of
22 what is happening in reality. So there are gaps
23 as I'm stating in -- in my declaration with
24 respect to this. And I think that there is some
25 use of terms which is not -- would not have been 10:32

1 familiar to someone in -- a POSITA in 2001.

⁶ A. According to equation 2.

11 A. Let's say what is known here and what
12 is the unknown.

16 A. So here we have three quantities. We
17 have R prime, L , and the normal illumination
18 incident. If we assume that this is
19 representative of the physics -- because as I
20 mentioned, a POSITA will have known other terms 10:34
21 like a cosine theta, which has to do with the
22 angles and the geometry involved. If we assume
23 -- if we look strictly at equation 2, if you
24 know L and E sub n , you can compute our prime.

25 MR. HIGH: Okay. I will pass the 10:34

1 witness.

2 MR. SAUNDERS: I have no further
3 questions.

4 MR. HIGH: All right. We are done.

5 (Time concluded: 10:34 a.m.)
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1 CERTIFICATE OF REPORTER

2 I, Janice M. Kocek, Certified Shorthand
3 Reporter, Certified LiveNote Reporter, and
4 Notary Public in and for the State of Illinois,
5 County of Cook, the officer before whom the
6 proceedings were taken, do hereby certify that
7 the foregoing transcript is a true and correct
8 record of these proceedings; that said
9 proceedings were taken in Stenotype notes by me
10 on the 4th day of September, 2025, via Zoom
11 videoconferencing, commencing at 9:51 a.m. CST
12 and ending at 10:34 a.m.

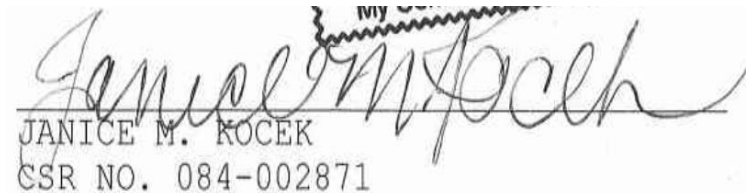
13 I further certify that present on
14 behalf of Petitioner Mobileye Global, Inc., was
15 Robert K. High of Finnegan, Henderson, Farabow,
16 Garrett & Dunner, LLP; and present on behalf of
17 Patent Owner Mandli Communications, Inc., was
18 Michael Saunders of Prince Lobel Tye LLP.

19 I further certify that I am not related
20 to, nor associated with any of the parties or
21 their attorneys, nor do I have any disqualifying
22 interest, personal or financial in the actions
23 within.

24

25

1 Dated this 9th day of September, 2025,
2 in LaGrange Park, Illinois.

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8 JANICE M. KOCEK
9 CSR NO. 084-002871
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I, _____, do hereby
acknowledge that I have read and examined the
foregoing testimony, and the same is a true,
correct and complete transcription of the
testimony given by me, and any corrections
appear on the attached Errata Sheet signed by me.

DATE _____ WITNESS SIGNATURE _____

NOTARIZATION (If Required)

State of _____

County of _____

Subscribed and sworn to (or affirmed) before me
on this _____ day of _____,
2025, by _____, proved
to me on the basis of satisfactory evidence to
be the person who appeared before me.

Signature: _____

(SEAL)

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