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Origin: International

**Latest date for receipt of comments: 30 April 2012**

Project No. 2010/02450

Responsible committee: CPL/34/2 Lamp caps and holders

Interested committees:

Title: BS EN 60061. Lamp caps and holders together with gauges for the control of interchangeability and safety.  
Part 1. Lamp caps. Amendment 49.  
Part 2. Lampholders. Amendment 46.  
Part 3. Gauges. Amendment 47

Supersession information: If you are aware of a current national standard which may be affected, please notify the secretary (contact details below).

**WARNING: THIS IS A DRAFT AND MUST NOT BE REGARDED OR USED AS A BRITISH STANDARD.  
THIS DRAFT IS NOT CURRENT BEYOND 30 April 2012**

This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Information on the co-operating organizations represented on the committees referenced above may be obtained from the responsible committee secretary.

**Cross-references**

The British Standards which implement International or European publications referred to in this draft may be found via the British Standards Online Service on the BSI web site <http://www.bsigroup.com>.

Responsible Committee Secretary: **Committee Service Centre (BSI)**Direct tel: **020 8996 7009**E-mail: **csc@bsigroup.com**

## Introduction

This draft standard is based on international discussions in which the UK has taken an active part. Your comments on this draft are welcome and will assist in the preparation of the consequent standard. There is a high probability that this text could be adopted by CENELEC as a reference document for harmonization or as a European Standard. Recipients of this draft are requested to comment on the text bearing in mind this possibility.

## UK Vote

Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

## Submission of Comments

- The guidance given below is intended to ensure that all comments receive efficient and appropriate attention by the responsible BSI committee. **Annotated drafts are not acceptable and will be rejected.**
- All comments must be submitted, preferably electronically, to the Responsible Committee Secretary at the address given on the front cover. Comments should be compatible with version 6.0 or version 97 of Microsoft Word for Windows, if possible; otherwise comments in ASCII text format are acceptable. **Any comments not submitted electronically should still adhere to these format requirements.**
- All comments submitted should be presented as given in the example below. Further information on submitting comments and how to obtain a blank electronic version of a comment form are available from the BSI website at: <http://www.bsigroup.com/en/Standards-and-Publications/Current-work/DPCs/>

## Template for comments and secretariat observations

|                  |                               |
|------------------|-------------------------------|
| Date: xx/xx/20xx | Document: <b>ISO/DIS xxxx</b> |
|------------------|-------------------------------|

| 1  | 2                                          | (3)                           | 4               | 5                                                                                                                                  | (6)                                                                      | (7)                                                |
|----|--------------------------------------------|-------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------|
| MB | Clause No./ Subclause No./Annex (e.g. 3.1) | Paragraph/ Figure/ Table/Note | Type of comment | Commend (justification for change) by the MB                                                                                       | Proposed change by the MB                                                | Secretariat observations on each comment submitted |
|    | 3.1                                        | Definition 1                  | ed              | Definition is ambiguous and needs clarifying.                                                                                      | Amend to read '...so that the mains connector to which no connection...' |                                                    |
|    | 6.4                                        | Paragraph 2                   | te              | The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK. | Delete reference to UV photometer.                                       |                                                    |



# 34B/1635/CDV

## COMMITTEE DRAFT FOR VOTE (CDV) PROJET DE COMITÉ POUR VOTE (CDV)

|                                                                                                                                                                                                                                                                                                                   |                                                               |                                                                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Project number<br>Numéro de projet                                                                                                                                                                                                                                                                                |                                                               | IEC 60061-1 A49; -2 A46; -3 A47                                                                                                                  |  |
| IEC/TC or SC: <b>34B</b><br>CEI/CE ou SC:                                                                                                                                                                                                                                                                         |                                                               | Secretariat / Secrétariat<br><b>Germany</b>                                                                                                      |  |
| <input checked="" type="checkbox"/> Submitted for parallel voting in CENELEC<br>Soumis au vote parallèle au CENELEC                                                                                                                                                                                               | Date of circulation<br>Date de diffusion<br><b>2011-12-23</b> | Closing date for voting (Voting mandatory for P-members)<br>Date de clôture du vote (Vote obligatoire pour les membres (P))<br><b>2012-05-25</b> |  |
| Also of interest to the following committees<br>Intéresse également les comités suivants                                                                                                                                                                                                                          |                                                               | Supersedes document<br>Remplace le document<br>34B/1611, 1612, 1613/CD,<br>34B/1622, 1623, 1624/CC                                               |  |
| Proposed horizontal standard<br>Norme horizontale suggérée<br><input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the TC/SC secretary<br>Les autres CE/SC sont requis d'indiquer leur intérêt, si nécessaire, dans ce CDV à l'intention du secrétaire du CE/SC |                                                               |                                                                                                                                                  |  |
| Functions concerned<br>Fonctions concernées<br><input checked="" type="checkbox"/> Safety<br>Sécurité<br><input type="checkbox"/> EMC<br>CEM<br><input type="checkbox"/> Environment<br>Environnement<br><input type="checkbox"/> Quality assurance<br>Assurance qualité                                          |                                                               |                                                                                                                                                  |  |

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RECIPIENTS OF THIS DOCUMENT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

Titre : CEI 60061: Culots de lampes et souilles ainsi que callibres pour le contrôle de l'interchangeabilité et de la sécurité —

Partie 1: Culots de lampes — Amendement 49

Partie 2: Douilles — Amendement 46

Partie 3: Calibres — Amendement 47

Title : IEC 60061: Lamp caps and holders together with gauges for the control of interchangeability and safety —

Part 1: Lamp caps — Amendment 49

Part 2: Lampholders — Amendment 46

Part 3: Gauges — Amendment 47

### ATTENTION VOTE PARALLÈLE CEI – CENELEC

L'attention des Comités nationaux de la CEI, membres du CENELEC, est attirée sur le fait que ce projet de comité pour vote (CDV) de Norme internationale est soumis au vote parallèle.

Les membres du CENELEC sont invités à voter via le système de vote en ligne du CENELEC.

### ATTENTION IEC – CENELEC PARALLEL VOTING

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) for an International Standard is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

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Note d'introduction

### **Introduction du système PU43t**

Le système PU43t a été initialement conçu pour les lampes automobile avant H17.

### **Introduction du socle GX38**

Ce culot a été initialement conçu pour les lampes à décharge haute intensité.

### **Amendement pour le socle GU10**

Le changement proposé a pour but de prévenir les erreurs d'introduction avec le nouveau système GUZ10.

Introductory note

### **Introduction of a system PU43t**

PU43t was originally designed for H17 automotive head lamps.

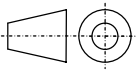
### **Introduction of a cap GX38**

This cap was originally designed for high intensity discharge lamps.

### **Amendment of the GU10 cap**

The proposed change aims at preventing misinsertions with the new system GUZ10.

**CAPS**  
**CULOTS**  
**PU43t**

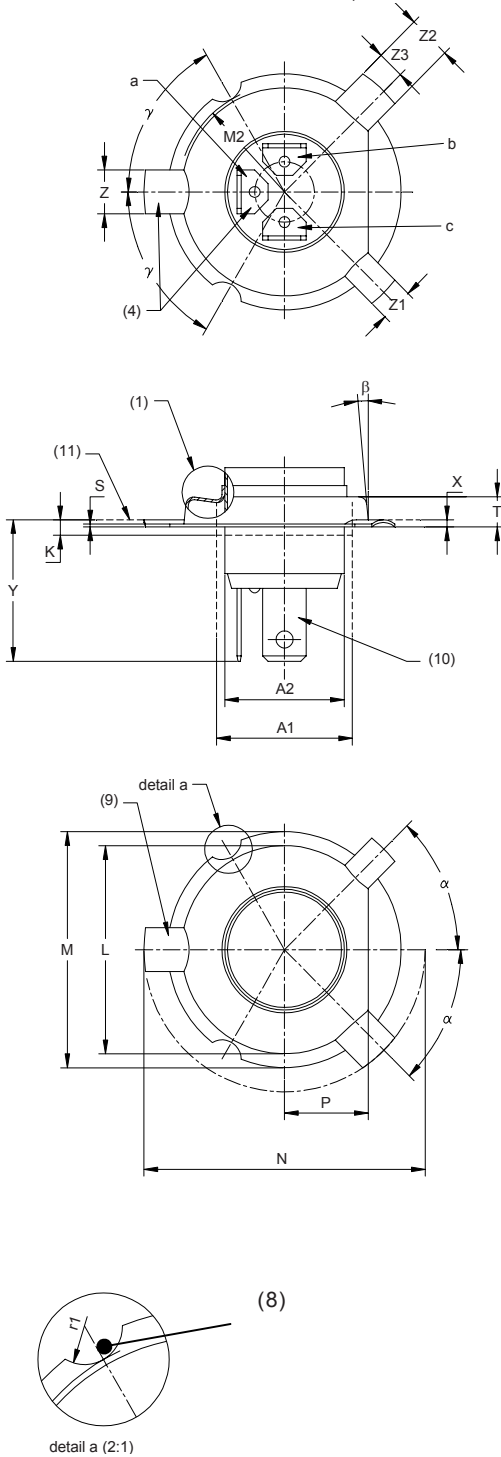


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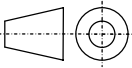
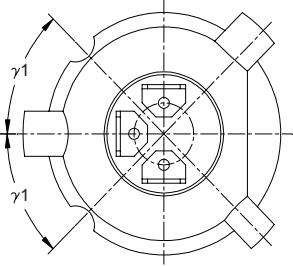
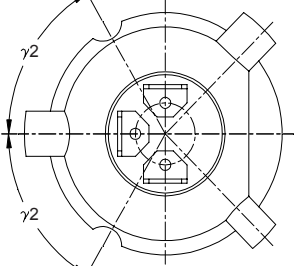
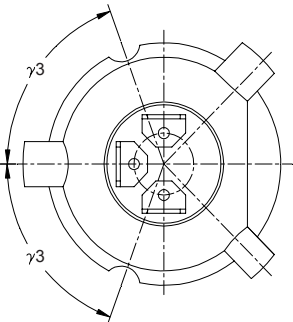
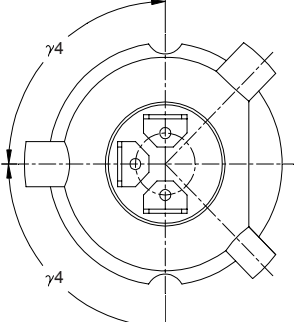
Dimensions in millimetres - Dimensions en millimètres

The drawing is intended only to illustrate the dimensions essential for interchangeability.  
Le dessin a pour seul but d'illustrer les dimensions essentielles pour l'interchangeabilité.

For details of holders PU43t see sheet 7005-171.  
Pour les détails des douilles PU43t, voir feuille 7005-171.



7004-171-1

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div>CAPS</div> <div>CULOTS</div> <div>PU43t</div> | <div></div> <div>Page 2/3</div> |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------|------|------|--------|------|--|--------|----------|--|-------|-----|--|----------|------|------|-------|------|------|----|------|------|----|-----|-----|---|------|------|-------|------|------|---|------|----|---|-----|-----|---|-----|-----|---|------|------|---|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|---|-----|-----|---|----|----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|
| Dimensions in millimetres - Dimensions en millimètres                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |                                                                                                                    |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| <table><tr><th>Dimension</th><th>Min.</th><th>Max.</th></tr><tr><td>A1 (6)</td><td colspan="2">25,0</td></tr><tr><td>A2 (7)</td><td colspan="2">Nom. 22*</td></tr><tr><td>K (7)</td><td colspan="2">2,0</td></tr><tr><td>L (2)(5)</td><td>37,8</td><td>38,0</td></tr><tr><td>M (3)</td><td>42,9</td><td>43,0</td></tr><tr><td>M2</td><td>19,3</td><td>19,7</td></tr><tr><td>r1</td><td>3,4</td><td>3,6</td></tr><tr><td>N</td><td>51,6</td><td>52,0</td></tr><tr><td>P (2)</td><td>15,3</td><td>15,5</td></tr><tr><td>S</td><td>0,45</td><td>--</td></tr><tr><td>T</td><td>5,0</td><td>6,0</td></tr><tr><td>X</td><td>1,1</td><td>1,3</td></tr><tr><td>Y</td><td>25,0</td><td>29,0</td></tr><tr><td>Z</td><td>7,9</td><td>8,0</td></tr><tr><td>Z1</td><td>5,8</td><td>6,2</td></tr><tr><td>Z2</td><td>7,8</td><td>8,2</td></tr><tr><td>Z3</td><td>4,9</td><td>5,1</td></tr><tr><td>α</td><td>44°</td><td>46°</td></tr><tr><td>β</td><td>--</td><td>5°</td></tr><tr><td>γ1</td><td>44°</td><td>46°</td></tr><tr><td>γ2</td><td>59°</td><td>61°</td></tr><tr><td>γ3</td><td>69°</td><td>71°</td></tr><tr><td>γ4</td><td>89°</td><td>91°</td></tr></table> |                                                    |                                                                                                                    | Dimension | Min. | Max. | A1 (6) | 25,0 |  | A2 (7) | Nom. 22* |  | K (7) | 2,0 |  | L (2)(5) | 37,8 | 38,0 | M (3) | 42,9 | 43,0 | M2 | 19,3 | 19,7 | r1 | 3,4 | 3,6 | N | 51,6 | 52,0 | P (2) | 15,3 | 15,5 | S | 0,45 | -- | T | 5,0 | 6,0 | X | 1,1 | 1,3 | Y | 25,0 | 29,0 | Z | 7,9 | 8,0 | Z1 | 5,8 | 6,2 | Z2 | 7,8 | 8,2 | Z3 | 4,9 | 5,1 | α | 44° | 46° | β | -- | 5° | γ1 | 44° | 46° | γ2 | 59° | 61° | γ3 | 69° | 71° | γ4 | 89° | 91° |
| Dimension                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Min.                                               | Max.                                                                                                               |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| A1 (6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25,0                                               |                                                                                                                    |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| A2 (7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nom. 22*                                           |                                                                                                                    |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| K (7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2,0                                                |                                                                                                                    |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| L (2)(5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 37,8                                               | 38,0                                                                                                               |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| M (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 42,9                                               | 43,0                                                                                                               |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| M2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19,3                                               | 19,7                                                                                                               |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| r1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,4                                                | 3,6                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 51,6                                               | 52,0                                                                                                               |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| P (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15,3                                               | 15,5                                                                                                               |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0,45                                               | --                                                                                                                 |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5,0                                                | 6,0                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,1                                                | 1,3                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25,0                                               | 29,0                                                                                                               |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7,9                                                | 8,0                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| Z1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5,8                                                | 6,2                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| Z2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7,8                                                | 8,2                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| Z3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4,9                                                | 5,1                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 44°                                                | 46°                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| β                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | --                                                 | 5°                                                                                                                 |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| γ1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 44°                                                | 46°                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| γ2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 59°                                                | 61°                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| γ3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 69°                                                | 71°                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| γ4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 89°                                                | 91°                                                                                                                |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| <div><div><div>PU43t-1</div><div></div></div><div><div>PU43t-2</div><div></div></div><div><div>PU43t-3</div><div></div></div><div><div>PU43t-4</div><div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |                                                                                                                    |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |
| <div>7004-171-1</div> <div><div> IEC 60061-1<br/>CEI 60061-1</div><div>Documents</div><div>Document Sharing Hub</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |                                                                                                                    |           |      |      |        |      |  |        |          |  |       |     |  |          |      |      |       |      |      |    |      |      |    |     |     |   |      |      |       |      |      |   |      |    |   |     |     |   |     |     |   |      |      |   |     |     |    |     |     |    |     |     |    |     |     |   |     |     |   |    |    |    |     |     |    |     |     |    |     |     |    |     |     |