

< ^ aVēV_T|V` aZΛf_R` d Sj h dēRckj ^ hZΛf



5c 6hR < aVĪ FH Z Ž> D4 h H RckRh ZV

F čh "*(& čh ?` hV[5aSŽH]RēTY #! !%# #! * def UZ hR`R h H j ĩdkV[DK\` JV AcRh R Z2U^ Z ŽēēRT [_RKR^ Z[dT` h j ^ H j UKR]h CKVdk` h ŽH c` \f #! ! f` `ēTkj`R`_RF`_žVoj`ēVTZ/CKVdk` h dZ` def UZ a` Uj a] ^` h v k aVURX` XŽ ŽAcRTá U` \é cd\` aērh Z/UKR aVURX` XZk_R c` UKŽéh UKŽ/TZh h ZΛf h TkVd` dk\`] j ^` _R a` UdeRh Z SRURē h a` h Z/TZ\` JSfdk` h dZ` /,` Sc`_ZR h #! "# c` \f`_R <Rē f]Z\Z` F`_žVoj`ēVTZ` =fSV]dZ` _R H j UKR]V`? Rf` Da` `VTk`_j TYŽ; V[KRZ`ē/d/d` h R`_Rf` h v ZSR URh TkV dVfaR]` dŽ h` \é`ac` SJV` Rē j`ZaVURX` XŽ Žc` UKZ j`ēkh`RdkTKR h Z/UKj` aVURX` XZk_V[c` UKZ Tēh ěkR[f [V dŽ ēR\IV daVTj` W` c` kh` [f ěh j TY` h R`_R ZVUF\RT[ZUKŽ/T\R h h ZΛf h TkVd` dk\`] j ^` Ž :_ē/d/df [V dŽ ēh`_Z] ēV` Rē j` k` kR\ē/df` XVC` _e` X` XŽ Žh` RdaV\T/V` VWġ h`_VX` W`_VT[` _` h R`_R` _` dēS dēRckj TY h V h daē`TKVd`_j ^` da` `VTkVēdh` Ž Ž f ē` d R`_R f UKZ/dŽTŽ` Rē j` \f`ēh`_RF` h j TYēS dR` R f UKR`h` Ž k`_j TY` _` Wd`_T[RTY aVURX` XZk`_j TY` dR[` h j TY` `dRk`kRX`d`_Zk`_j TYŽ; VdeRUŽ`_ē/`_R` F TKV\ZH RckRh d\Z[Z` Ž> D4 h` H RckRh Ž Ž CVR]ēf [V kRUR`_R [R\` Tk` _` V\` KVda` `f` DR` _` \dkē`TVI` _` Z h VX` 5` \é` cēh` adj` <` ^` Ž/TZ`? Rf` AVURX` XZk`_j TY A2? ŽAcRTf [V [R\` \f` dRē` cda` `VTk`_j` adj` D` UKZ` CV[` _` h j ^` h` <` JSfdk` h V Ž 3aU` T adkVdV` Dē h Rckj dkV`_R` E` h Rckj dh` Adj [RTŽ` 9 f ē` <` ^` c` h d\Z[a` UV[f [V UKR`_R`_R`_R`_d`kVTk` UKZ/TZZ` ^` UKZ]` _` dRk` Ž Y c` UKZ`

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DēRckV_Z/dŽ da` `VikVēdh` Rē`_Rf` dR] j Z`_Zf`_Z`_j ac` TVdh j dēaf [f` Tj h h ZΛf \dR[RYŽ`Vbē` h j kh R`_Zk`_ēēj ^` k` R XR dŽ` SVT`_Z`IR`R Gf` c` aRKR IY U`_Ž Žē`_RēR dēR` TVk[Rh` Ž` LU` \ēēdVX` ^` f` dZdŽ` Ua` l h ZU`_Z` adj` X` ē` h RY` ēR` IVZA`] dRŽ` Adj l X` ē` h R`_R` ēV` a` h Z`_j` U` ē` Tj` Y` āk` VUV h d j dē Z` _` c` V`_R`_Z` W` h R`_R` _` h j TY f d f X h kR` d` dV` a` ^` Tj` da` `Vik`_V[ē` aZ \f` ē` TkV` ZaZ]āX` Rj [V[ē` d` Vc` h R`_j TY U` _` dēS h a` UVk j ^` h ZΛf Ž`_Z h R] a` aj e` _R` G` Ž` UikV`_Z` v X` c` UKR] f` d f X SāUkZ h k` dē RēL` _` _` ZIk`_V` dēR]V` dŽ` kh` Ž` d` kV`_Z` \` ^` aVēV`_T|ZacRT` h`_Z` ēh` d` T|R] j TY Ž` R] Uj` Tk` h ZΛ` TkVf [V h daRēIZR` h` cē` j TY Rē` V` ēR IY T` UKZ`_` VX` [j` TZR]V` d` k` V` Xē]` _` Z` Žē` e` V[Vē` _` UJR` dēS dēRckj TYL` Ž U` ā` j TY Tj` d IY` c` h R`_j TY Ž` f` UKZ` dēRcZ` h j ^` R XR` cē` j` c` U` j TY W` h daRēIZR` Xēh`_Z` a` ^` Tj` Z` aZΛ` ēR` kV` dē`_j` Z` d j ēf` T|ZaRēdh` h j TY [R` Z` c` UKZ` j Ž`? R` ēV` c` UKR] f` a` ēkV` S j ^` V` Ua` h ZUR Y

[Vj`_Z` h aV` Z` G` Ž` U` ^` j` `dRk` Ua` h ZU` _` Z` h j \dēēRT`_j` `aZΛf`_L` a` dRUR` Tj` dē` d` h`_V` \` ^` aVēV`_T|VU` kR[` ^` h R`_R` dŽ` dēRck` _` d` S` Ž`

K[Rh` Ž` dēRckV`_R` dŽ` [Vē`_Rēf` dR] j ^` ac` TVdV` kRēh`_` SZ`]` XZk`_j ^` [R` Z` d` l` `Vik`_j ^` Ž`? ŽAR` G` Ž` U` ^` dē` U` ē` Tj` TR` _` aZΛ`]` Vik`_R` Z` W` \T[` _` h R`_R` _` dēS` h` a` UVk j ^` h ZΛf` ^` V` dā` h` U` h RY` _` Z` SVkaZ` TkVēdh` ` S` dRf` kRāVh`_Z`_R` Z` _` Ua` h ZU`_ZY` h Rēf` \ēh` [j` TZR` Z` kR` S` Wk` aZ` Vik`_R`_ZY` a` ēkV` S Žē` ^` TkRdV` \` ^` aV` ēV`_e` RēL` G` Ž` Uik`_R` ZU` SēR` aZΛf` _` RēL` _` ZΛ` _` ZIk`_Z` SāU` TR` aZ]āX`_R` c` L` ^` V` h j \`_j` h RY` h ZΛV` Tj` _` GēZ` ^` R[` Tj` TY` _` R` TVf` dVc` \` c` kf` a` R`_` a` ^` T` d` SZ` dēRckV[LkR] k`_R[` T` U U` ēd j ^` R`_R` ē` h` R` d j dh` Rē` d` kV` c` SZ`_Z` kR` f` aēh` Zh` j` \` l` _` j` h R`_Z` U` c` S`_j` TY` acRT` h` X` dā` URēdh`_Z` U` ^` h j ^` Lā` SRdUkZ] h j ^` R XR` TV Tj` l` _` GēZ` aŽ` CVR]ē` h R`_V` h` TVf` kR IY` h R`_R` YZ XZ`_j` a` U` aZ` Vik`_VX` Ž` 5] RēVX` L` acRIR` k` d` S` dēRck` h j ^` R XR` Ua` h ZU`_Z`

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adj X e h R_ZZ 3j TZ ` aZaf_V^ ` d Sj
 dRckV e T Ceh ZIM _Zj hj ` _j h R_Z
 dh ` ZY ` S ` h Z k e h h cR RIY f ^ ` hj
 ` acRiLa h ZIT a ` eckVS_V [Vde ef h RIZh V
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 TV_ZLa ` dRUR_ZR ` Ua ` h ZU_ZY TMIY TYR
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 eR j V TZkaZh ` CIL ` Ua ` c ` CIL adj TYZk_RL
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H ` SVI a ` hj [dkj TY deh Z dUkVe a ` UjaeR
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 kh Z kR_V k W \ Tj ` _ h R_ZA^ ` deS deRd
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? Zadj X e h R_ZV Z_dj ef TIZ a ` ^ ` Tj
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 ` d SR^ Z deRckj ^ Z h Wc ` ZV a ` cRU_ZI
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Ac XcR^ _RfTkR_ZR cVRjZk`hR_j adcj l`RU h`h dk\`jVa`|ZVR|_V| h kRh`UkZV r`aZVf_`d Sj deRckV|,LkRa`RUR kR|áTZR ^ZZ`Zk eRZY ackVU^ Z eéh [R+a`UdeR| hj`adj TY`|XZZ Z d T|`|XZL a`UdeR|h_j adj TY`aRe`|XZLa`|Zj`VR da`vIk_RLTY` l`c Sj hZVf deRckVX`L`aZVR_RU`d SR deRck`L`Vè Uj`VRdR|j ka`U aZV|k_j`^L ac`^`|TR kUc`h ZR Zac`VR`ej`VR`cRk kR| [áTZR acR`ej`Tk`V`L`ècV`d`_ZkSáU_j`^ h Rcf`_ZV`U`dZX`ZáTZR`Ua`hZU_ZY` \`^`aVèV`|TZ h kR`cVdV`fUkZ|VR`_V`a`l`^`Tj kRèh`_`h`dj`dèV`RIY`Wc`R|_j TY [R`Z`ZVWc`R|_j TY`Z`DkIkV`è`h`V`TV|V` \`ckè`TV_ZR`kRa`Vh`_ZR`_RSj`TZV`_R`c`áaf`|`l` TM`h`ZUk`j`Zf`^`Z|áe`_`CIEZ`
 l`aVc`h`R`ZV`a`UdeR|h`hj`^`Z`a`[áTZR`Z`k`kR`cVf`adj`TY`|`XZZ`Xè|`V|L`c`kh`|`h`V|L`d`S`h`CIEZ`da`vIk`V`|`dR`d`T|`|`XZZ`
 l`h`ZUkR`U`ej`Tk`TR`ac`TV`dèh`adj`TY`Z|k`l`_j`TY`ZZY`c`|`Zh`|`j`TZ`Tk`^`h`ZVR`L`
 l`k`R|`^`^`CÉ`^`è`j`h`èh`a`d`éaa`h`R`ZR`[VU`_`dè`Z`h`cè`|_j`TY`dj`e`R|I`RIY`da`l`vIk`_j`TYL`
 l`a`k`R`ZV`ha`j`hf`ac`TV`dèh`V`^`T|`l`_R|_`l`^`è`j`h`R|j`|_j`TY`_R`dadRh`_`CÉ`UkZ`R`ZR`Tk`^`h`ZVR`L`
 l`h`ZUkR`_ReV`Re`c`|Z`d`S`h`CIEZ`h`cVf`l`|R|I`Z`dè`d`_`èh`Tk`^`h`ZVR`k`è`TkV`ZV`L`
 l`a`k`R`ZV`cè`|_`d`R`ZY`^`VIYR`Zk`è`h`L`_a`Z`h`[R`Z`da`dèS`adj`[áej`ackV`k`a`U`^`a`ZV|k`VX`_`dj`dèV`h`R`cè`CIEZ`ha`j`h`R`_R`[VX`W`_`T|`_`h`R`ZV`h`CÉ`U`h`ZV`f`da`vIk`_j`^`L`
 l`f`^`Z|áe`_`CÉ`c`ka`k`Rh`R`ZR`a`eckV`S`adj`TY`Vkj`Tk`_j`TY`d`Sj`deRckV`|`d`Rk`_` \`cV|V`_ZR`ZY`cVf`|R|j`|`V`W`_`T|ZL`
 l`k`R|`^`^`CÉ`ac`TV`dèh`hj`_ZR|`Tj`TY`kV`k`^`ZR`_`c`kh`|`h`j`TY`kRIY`Uk`Tj`TY`h`cè`|_j`TY`V`k`RIY`|j`TZR`Tk`^`h`ZVR`L`

l`f`^`Z|áe`_`CÉ`c`ka`k`Rh`R`ZR`Tkj`_`Z`èh`dadj`[R`Tj`TY`R`ej`h`_`CIEZ`Z`c`kh`|`h`Z`Tk`^`h`ZVR`h`cè`|_j`TY`V`e`R`a`RIY`|j`TZR`L`
 l`k`R|`^`^`CÉ`ac`TV`dè`deRckV`_ZR`d`Za`h`R`c`a`V`TZV`SZ`|`XZ|k`_j`^`L`adj`TY`|`l`XZ|k`_j`^`Z`da`vIk`_j`^`L`
 l`f`^`Z|áe`_`CÉ`^`è`j`h`h`R`ZR`d`Sj`deRd`ckV`U`d`R`^`UkZ|_`CIEZ`|j`TZ`h`V`Za`l`UM`^`h`R`ZR`R`ej`h`_`CIEZ`da`vIk`_V|L`
 l`c`ka`k`Rh`R`ZV`_`Z`ac`Rh`ZV`h`CIEZ`h`da`vIk`_j`^`W`_`T|`_`h`R`Z`Tk`^`l`h`ZVR`deRckV`X`L`
 l`c`ka`k`Rh`R`ZV`^`^`|Z`_`CIEZ`Z`XcR`Z|k`Vè`Tk`^`h`ZVR`deRckV`X`hj`d`áaf`|`TV`h`d`W`ckV`d`^`Rej`Tk`_V|L`adj`TY`Z|k`_V`Z`da`vIk`_V|L`
 l`h`ZUkR`_`adj`Tkj`_RIY`Z`d`f`e`RIY`_`R`_R`ej`TY`_ZR`dè`hj`TY`Z`Uc`Tk`_j`TY`k`RS`f`l`ck`Vè`h`adj`TY`da`vIk`_j`^`W`_`T|`_`l`h`R`Z`_`d`Sj`deRckV|L`
 l`k`R|`^`^`CÉ`c`UkR|`èh`_Z`a`V`^`_`dadRh`_`l`CIEZ`d`V`d`ej`Tk`_V|L`^`è`è`j`Tk`_V|L`^`j`d`^`l`h`V`Z`c`ack`á`|`_`V|L`
 l`f`^`Z|áe`_`CÉ`ZV`_`ej`V`R|I`Z`_`XcR`Z|k`Vè`Z`^`^`|Z`_`CIEZ`W`_`T|`_`h`R`ZR`_`dèS`deRckj`TY`k`cè`|_`VX`_`c`UkR|f`_`Z`a`V`^`_`l`dadRh`_`CIEZ`L`
 l`h`ZUkR`_`ac`TV`dèV`da`_`d`eckV`XR`_ZR`da`l`vIk`_VX`L`Rej`Sf`T|Z`_`^`f`_Z`_`h`R`ZR`d`Za`_`d`Rk`_`c`ka`k`Rh`R`ZR`ZZ`e`V`c`ac`Vè`h`R`ZR`"cèUV`a`h`U`f`|`Tj`TY`kR`è`TV`_ZR`L`
 l`f`^`Z|áe`_`CÉ`c`ka`k`Rh`R`ZR`k`X`U`_`CIEZ`Z`_`Z`k`X`U`_`CIEZ`dj`X`R`è`h`h`V`e`SR|_j`TY`Z`_`Zh`V`e`SR|_j`TYL`
 l`h`ZUkR`_R`èV`Re`VW`_`ej`h`_VX`_`Rh`Z`l`kj`h`R`_ZR`_`_`e`R`e`f`k`cè`|_j`^`Z`X`c`f`a`R`^`Z`a`U`a`ZV|k`_j`TYL`dè`d`h`R`ZR`a`UdeR|h`_`l`hj`TY`k`R`RU`_`^`^`f`_Z`_`h`R`ZR`d`Za`k`a`U`_`a`ZV|k`_j`^`ZS`|Z`Z`Za`U`a`ZV|k`_VX`L`
 l`k`U`Sj`TZV`f`^`Z|áe`_`CIEZ`R`d`V`ej`h`_VX`k`R|TY`h`R`ZR`d`Za`_`d`Rk`_`a`R`_`h`R`ZV`^`Vè`U`

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⁷ L0" Rvgnel| { e0" *4233+0" Quqd| { "wctu|g" pc" yuk0" |y<" O0" U { umc" *tgf|+." \ " iqfpq ek " y" lgukg " { eka" *u042/55+0" Ytqefcy" ó" Yctu|cyc<" Y { f0" QOU" k'o0" H0" Ncuucmgoc0



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 ej h_VX kRiY h R_ZR` d Sj dRckVLE
 l U de d h R_ZV^ Ve Uj _VX TIRIIZU kR
 Zle ZR^Mj dj ef RIIZda` ^Vik_VLEa` fackVUI
 _Z` f^ Z[ae_j ^ c` ka` k_R_Z` dj ef RIIZ
 da` ^Vik_V` cRk h Rcf_\eh` fJ ZR Zac` l
 SJV` eh` d` Sj dRckVLEcf U_V dj ef RIIZ
 `cRk hj daaa` h R_ZR Vh_V` ef R_VX` \cj l
 kj df h` fJ ZR` d` Sj dRckVLE
 l f^ Z[ae` ^Cf` de d h R_ZR` df eVik_j TY
 da` d` Seh` c` kh Z kj h R_ZR dj ef RIIZcf U
 _j TYL` \` VZ` e` hj TY` cRk` \cj kj d` hj TY
 k` fh kX[au_Z_V_Z^` ^` fJ Z` ^Cf` d` Sj
 dRckVLE
 l c` ka` k_Rh R_ZV` adkj Tlj` _a` h` dR h R_ZR
 deVdf Lf^ Z[ae` ^Cf` \cVIV_ZR [VX` Uj l
 _R^ ZZZ dj ^ ae` ^ ehL` Rdaa` Z/U` Séc
 `Ua` h` ZU_ZY` ^ Ve` UZeVIY_Z` cRukV_ZR
 d` SZ/k` VXRej` h_j` ^ Z[VX` df eR^` Z
 l f^ Z[ae` ^Cf` c` ka` k_Rh R_ZR Tlj` _Z` eh
 h` Rcf` _\f` [° Tj TY` W_\T` _` h R_ZV` [VU
 _` de` Zh` c` UkZ` ZV` `cRk` _Rh` Z` kj` h R_ZV`
 cVRIIZh` Vh` ° edc` UkZ` _j` TYL` h` kSZ` c` l
 h` ^Cf` da` ^Vik_VLE` k` R` ^` ^` ^Cf` kRIRU` cV
 R]Z` h R_ZR` cè` da` ^Vik_j` TYL`
 l f` UkZ[R` ZV` h` da` R` c` ZR` V` ^` T` _R` _VX` `d` l
 S` ^` dRckj` ^` a` eckVsf` [° Tj` ^` a` ^` Tj` L

l` c` ka` k_Rh R_ZV` Z` h` j` \` dj` dR` _ZV` kR` d` l
 Seh` ^E` U` h` Z` R` c` UkZ` _VX` L` Z` dj` ef` l
 T` _R` _VX` Z`]` \R` _VX` h` adRj` k` d` S°
 dRck` ^` Z`
 H` Tmf` kRaVh` _ZV` ZR` `Ua` h` ZU` _ZV` a` l
 ^` ^` Tj`]f` UkZ` ^` dRckj` ^` L` `Ua` h` ZUR` °` Tj
 _R` ZY` a` eckVsj` L` a` RceM` _R` Xcf` _e` h` _V
 h` ZUkj` a` h` _Z` _R` Sj` Y` ackVac` h` RUK` _R
 aV` _R` UZR` _` kR` ZY` dj` ef` RIIZ` R` kh` ^R` d` k` R
 dR` _f` ZY` kU` h` ZR` Z` da` cR` h` _` ^Cf` h` Rcf` _l
 \eh` fJ` ZR` dR` ef` df` da` ^Vik` _VX` L` `cR` _Z` R
 T]Z` T` kR` f` h` _` _VX` L` _` _Uj` T]Z` ad` TY` Z` k` _VLE
 dR` ^` _e` ^Cf` Z` `dR` ^` _e` ZV` _Z` Z` <` dkeR` IV` ZV
 da` V]R]Z` k` h` h` kR` c` d` V` /` C` h` ZU` k` V` _Z` f` df` X
 a` Z` /` a` X` _R]` [` _` ^` a` Z` a` f` e` T` k` j` TY` `S` `h` Z` k` `l
 h` ^` ^` f` d` Z` k` ^` Z` d` k` R` Y` h` ^` V` c` f` _` \f` c` kh` `]f` X
 M` c` _e`]` X` Z` L` _R` \` Z` k` R` ^` f` [°` Tj` d` a` ac` T` V` d` ^
 dRckV` _Z` Z` e` ^` fJ` h` j` TYL` R` h` d` k` V` X` e`]` ^` ^Cf`
 T` k` ^` h` Z` R` ^` cRk` _R` ^` h` V` X` SRUR` _Z` h` d` k` V` l
 \ZY` R` da` V` e` h` SZ`]` X` Z` k` _VX` L` ad` j` TY`]` l
 X` Z` k` _VX` Z` da` ^Vik` _VX` dRckV` _Z` d` a` Z`
 ?` R` S` j` T` V` h` ZUkj` `cRk` f^` Z[ae` ^` ^Cf`
 k` a` Vh` _` ^Cf` da` cR` h` Z`]V` h` j` d` k` e` R` T` _j
 `a` Z` a` f` _L` ^` e` e` j` h` j` da` V]R]Z` k` f` V` d` a` h` e` M
 Uk` ZU` k` Z` Z` L` S` a` U` k` Z` /` SV` k` h` °` ea` Z` _Z`]V` a` Z
 d` R` U` k` Z` d` SZ` h` c` V` R]Z` k` h` R` _Z` d` h` ^` ZY` W` _` l
 T]Z` Z` h` j` \` _j` h` R` _Z` a` h` Z` d` k` _j` TY` k` R` U` e` L

⁸ O0° Icu|{ umc."U0° I> f ."O0° Mw ."L0° Nguukyke|."C0° \cucfc/Ejqtcd0°*tgf0+0°*422;+0° Rqtico° Pcwe/cpkc0° Qrkgnwp°Quqd°\wctu/gll° Yctu|cyc° Okpukvtuyvq°Gfwmccl°Pctqfgygl0

⁹ O0° Fwfgm."O0° Owctv." Yurctekg"qu>d°wctu|{ej°y°Rqneqg°ó°y{dtepg°rtqng°o {0°Uvtqpc°kpvgtgvyqyc°jwrc°ll y°y0°rwnkd0um|gnrdw4!HH!Dcnq°iqxc3!r fha fqe!540r fh0

° Pcwmc°vc°kpvgtguwlg°uk °vc°m°m°w°wtq°y°urqfge|p °.rqnk°v°{e|p °k°gmpp°q°e|p °uvtq°p °uvt|gpk°uk °nwfpq°ek0° Mt ikgo°uyqkej°|c|kpvgtguqyc °qdg|owlg°vg °nwf|k|dnk°cl°e|ej°uk °fq°uvtq°ek°k°|pclfwl°e|ej°uk °pc°lgl°rt|gf/ rqnw°*y°ykgmw°qf°62°f°q°67°ncv+0° |clowlg°uk °tq|rq|pcycp|g°o°k°nge|gpk°o°ejqt°d°y°{uv°rwl°e|ej°w°qu>d°wctu/ u|{ej°k°v°{rqy°{ej°fnc°vgl°igp|gctcelk°lcm°>°y°p|gk °rtq°L°ncmv°{m °uvt|gpk°uk °0°Qdgepg°|igtqpvqni°f°c°uvc°uk° °rt|gf/ okqvg°o°yur°>°frtce°{k°ok°f|{pctqfgy°{ej°df°c° °rqt°>°ypcy°e|ej°0°Qdu|ct°df°c° °igtqpvqni°k|p°{ej°lguw°dctf°|q° u|gtqmk°k°qdg|owlg°y°|cucf°|kg°y°u|{wmkg°curgm°v°{ °{ek°nw°f°|k°uvt|gl°e|ej°uk °k°uvt°{ej°<°L°|lqni°k|p°{ °ogf°e|p°." fg°o°q°it°e°|p°{ °gmpp°q°e|p°{ °m°w°wtq°y°{ °ru°{ej°qni°k|p°{ °k°urqfge°|p°{ °rqp°lgy°c °u °qpg°kuv°q°p°g°fnc°|tq|w°okgp/ kc°|lc°y°kumc°uvt|gpk°uk °0° Igtqpvqni°f°c°lguv°|cvg°o°y°kgnqf°{ue°{rnk°pctp °f°|kgf°|kp °ykgf°|{°k°f°|kgn°k°uk °pc°vt°|{°rqf/ uvcy°qyg°f°|kc°f°<3°+igtqpvqni°k °ogf°e|p °.qdg|owl°e °igt°k°v°k °.igt°j°k°i°k°gp °k°ru°{ej°qigt°k°v°k °=4°+igtqpvqni°k ° urqfge|p °.c°y°lgl°qdt°dkg°rgfc°i°qim °.ru°{ej°qni°k °k°uqel°qni°k °uvt|gpk°uk °=5°+igtqpvqni°k °gmurgt°|ogp°cnp ° nwd°fq°ykfe|cnp °."|°vcnk°ok°uwd°f°{ue°{rnk°p°ok°lcm°°dkqni°k°uvt|gpk°uk °k°igtqpvqL°|lqni°k°*C0° \ {ej°0°*4229+0° Ngmu°mqp°igtqpvqni°k°k0°Mtc°>°y°<°QLe°{pc°Y°{fc°ypke|c°K°o°rwu+0°

° C0° \ {ej°0°*4229+0° Ngmu°mqp°igtqpvqni°k°k0°Mtc°>°y°<°QLe°{pc°Y°{fc°ypke|c°K°o°rwu0



_Zi`d SR dRS` adj X e`h R_R a`U ej`
h kX]aUV` L kRR_XR]`h R_R U` `aZ^Z
adj aRU`h`Ltkj`_Rh Ve[VX`S]Zi]ZKU`
Sj eV Xcf`_e`h`_V`h j`dkeR`TV`ZV`da`h`
Uf[V`aVh`_`CML`fV`aZ^f`_`a`cRUKZd`SZ
h`R]U]d`ej`d RI[Z`d`acRh`Z]fVa`U`aZ^Ik`j
SaUKZ^Tkf`a`dZa`SVkaZ^Ik`j`Lda`_`[_j`Lf`V]jL
RXUj`Sj`kRZk`Z`R`a`eckVS`R`Z`evch`V`T]Z
jV`RckRa`UM`^`Z`df`dk`_`UV]j`k]aZ`

#Z@D@3@H@z%#@A@6@F?2 @D@3J
H DE2OKJ> H:G:F

KUVZ]i`d`S`h`CIEZkh`Z`kR`Vd`a`l
[a]TR`eR`Z[V`R`TVTYR`ZU]`da`kj`T]R`d`SZkRZ
@`d`S`h`CIE`eR`ef[V`dZa`[R`_`cVR]`_`cXR
`ZRI]a`a`cj`TY`Wkj`Tk``k`^`f`_`k`TVTYZ^M
TY`_`Rkj`h`R`dZa`decf`ef`ca`_`Vf`c`a`cj`TYZkl
``^`R]`T`kU`[_`CIE`U`d`eR`IkR`_`R`h`Z`f
S`U`Teh`_`d`Rk`Z`Z]`h`R`_`R`Z`f`Z`f`Z`f`_`l
h`R`_`R`_`ceh`_`h`R]`j`TY`Wc`_`kRIY`h`R`_`R
RURa`eR]j`[_`VX`Z`4VIYR`a`dZUR`acVj`da`l
kj`T]VU`cVR`h`R`_`R`h`_`c`VCE`_`j`da`d`eS
h`da`e]`j`UJR`h`dj`d`e`ZY`j`f`UkZ`H`TVf
h`j`[RCEZ`_`R`Uj`da`kj`T]Z`d`SZkM`f`f]j`h`R
dZa`eVX`dR`VX`_`aZf`T`adj`UVZ]i`
h`R`_`Z`TVIYj`jVik`[M]VZTY`UkZ`_`da`d`eS
cVR`h`R`_`R`e`[Vde`daV]j`Wkj`_`Z`Za`l
h`eRckR]`j`da`d`eS`adj`a`d`e`U`h`R`j`U`
`c`VCE``V`[VU`_`d`e`Z`Z`

HGEU`R]hR]`Z[dj`TY`TVIY`d`S`h`CIEZ
`aZ^f``R`_`R]V]j`h`d`RkR]`[VX`U`Sc`YZH`R
CIEZ`_`CIE`eR`d`acRh`ZL`[V`d`eR]V`dZa`_`_`f]j`Tk]Z`jL
^`Z]L`aZ^f`e`Ikj`Z`K`f`h`RXZ`_`Re`L[V`d`eR`Z]f]l
UKZ`_`Z`TYae`Z`V`a`UUR`dZa`_`TV`Z`Z`_`j`TYL
TY`Sj`Ya`f`Tkr`Z`j`f`SZ`_`Z`kR]M]`_`CIE`ZY
`aZ^f``a`h`Z`Z`_`ackVUV`h`dj`d`e`Z`_`d`kR
`h`R]``d`Sj`d`eRckV`kV`h`kX]aUf`_`R`ZY

U`C]Z`kR]kV`ZL`^`Uc`CIE`Z`kR]f`XZ`SaU`TV
X`eh`_`j`^`Z`Ref`eR`ZdV`Z`ceh`Z]j`^`SRUkZ]L
f]V`h`da`e`IkVCEZ`d`eR`Z`j`f`UkZL`SRUkZ]`h`j`l
`d`keR`TV`Z``Z]`URh`_`Z`[L`k`U`[d`kR`_`W`k`W
f]j`TZ`h`_`L`_`ac`e`Tk`h`ZUKj`_`^`R]`U`kR`Wc`l
h`R`_`R`_`^`a`U`f`a`_`_`jV`Z`TV`_`j`ackV`Rk
e`cR]j`T]Z`f]`e`f`c]LYZk`_`cZackVUV`h`dj`d`e`Z`
[VU`R`_`ch`_`[VU`C]Z`kR]kV`Z`Z`^`Uc`CIE`f]j`l
TZ`h`_`^`Z`F`_`d`eS`d`eR`ckj`TYL`k`f`h`RXZ`_`R`ZY
h`Z`L`k`^`Z`_`R`dZa`YZ`c`R`e`TYR`h`j`k`_`Rh`R`j`TY
h`R`e`CIEZ`T`X`eh`_`Z`_`k`R]kRk`^`_`Z`[d`kV`Z
adj`h`Z`kR`_`R`U`_`h`R`e`CIEZ`^`R`e`V`C`R]`j`TYL
a`dZUR`_`Z`acV]Z]f`da`_`Vik`_`VX`LackVU`R
UR`_`R`_`R`e`Z`j`k`R`_`U`h`V`_`RU`f]j`TZ`c`UkZ]l
`V`L]k``Rh`Ve`kR`^`f]V`Z`c`UkZ]L`R`_`d`kj`CIE
kh`Z`[d`kV`_`R`_`cR`_`XZ`h`R`e`CIEZ`eR`ZY`[R`+
`d`keR`e`h`R``Z`[d`ch`Z`^`h`j`TY`c]R]I]Z`_`UkZ]l
`j`TYLackV`d`ckV`R``Z`kR]RU`h`da`e`f]j`TZ`da`l
`Vik``VX`L`h`R`e`CIEZ`^`_`cR]`j`TYL`c]V]Z]`j`TYL
`Xe]``j`f`Uk`Z`TYL`a`_`R]UkRd`h`j`TY`^`L`^`R]`l
T]j`TY`ch`_`[V`f`kR`dU`_`Z`_`Z`/`h`R`d]`_`j`XZ]L`R
f`TV`_`h`R`e`CIEZ`IY`L`XUKZ`a`[a]TZ`/`h`R`e`CIE
_`k`R]kR]e`h`dj`d`e`LT`f`TY`UkZ`R`h`R]`V
ZTV`_`VUJR`[VU`_`d`e`ZZ`da`_`Vik`Ve`d`h`R`_`d`Rk
[Vde`X`U`Va`_`f]`UR`_`Z`L`T`^`T]k`dZa`k`a`kj]l
ej`h`_`j`^`ZackV]j`TZ`^`ZZ`d`eR`_`h`Z`[VU`_`TkM
CEZ`TV`U`f]Ve`j`f`Uk`Z`TY`_`^`Z`E`d`k`VSR`h`Za]L
R`_`Rh`Ve`_`R]V]j`TkV`a`R]Y`k`ej`TY`TV`_`j`TY`UR
ceh`L]R`Z`V`Wcf]`d`eR`dZ`_`U`^`f`a`_`_`jV`Z`
`d`Rk`f`^`Z`Y``R`kR]Y`ch`_`j`h`UkZ`Tk`_`CIEZ
<`jM]j`^`h`Rcf`_`Z`^`U`da`V`_`Z`_`R
ackV`_`d`Sa`a`V`_`Z`T`_`W`_`T]a`_`aZ^f`_`R
d`eR`ckj`TY`j`f`UkZ`e`a`d`kR`_`h`R`_`Z`[d`ckj`kh]l
TkR]Ve`a`U`aZ^Ik`_`VX`L`R`kR`kV`^`Sj`TZ`
X`U`j`^`kRf`W`_`Z`L`h`R`e`j`X`U`j`^`ZU]`da`l
kj`T]`j`^`Z`@`S`h`Z`k`_`h`_`CIE`d`f`^`Z`_`_`CIE
Z`kR`cR]U`_`CIE`e`_`R`d`aa`_`V`TVIYj`U`S`c`X`

32 L0^Uvtgncw0*tgf+0*4228+0^Ru/ejqnqike0/Rqft`elpkm^cmc fgo keml0^Ru/ejqnqike^qi»npc0^I`f`c`um`^I`Y`R0
33 Ej`jqfmqy`umc`O0^Tgenk]`cele`^t»n`f`|`kcfm»y`y`|`tqf`|`kpej`^`rqnumkej`^`vtcf`{e`|`p`{e`j`^`k`y`ur»e`|`gup`{e`j`0^Uvtqpc`^`kp/
vgtpgvqy`c`^`jwr`{lly`y`y0rwnkd0um]gnrwd4lHHlDcniq`xqcx3lrfhafqe]560rfh0
34 G0^Mqrg`0*4235+0^`citq`qpc`iqfqp` `qu»d^uvctu`|`{e`j`0^]w`_`L0`|`okp`{**tgf0+`^`Yur»e`|`gups`|^`citq`gpkc`o`^`hqt-
o`|^`k`umwv`m`k`*u0`^`5/`;`+0^Uvcnqyc`^`Yqnc`<`Mcv`gftc`^`Rgfc`i`q`i`k`m`k`^`Mcv`q`n`k`e`m`k`g`l0
35 L0`^`kop`{0^Cmulq`nq`i`k`e`y`^`{ekw`rgfc`i`q`i`k`e`|`p`{o0^Uvtqpc`^`kp`y`g`p`g`v`q`y`c`^`jwr`{lrgf`m`c`w0rnl`k`p`f`g`z0r`j`rl475/mu`/`|`k/
op`{lcp`cmulq`nq`i`k`e`y`/`|`{ekw`rgfc`i`q`i`k`e`|`p`{o0



2CE:4=6D

`aZ\af_R`Z`H Sf U h_R`Z` kRf`W`Z`R`a`^`ZaI
Ukj`a`U`aZ\Ik`j`^`R`a`Z\af`_`V`^`a`^`T`R`
^`^`Q\VSj`Yf`^`Z\ae`_`C`Z`^`U`j`W`R\I\Z`kR\I`Y`I`
h`R`e`h`kR\j`M`_`C`I`Z`U`q`j`e`f`R\I\Z`Z`

:`_`_`h`R`I`_`T`M`Y`^`[V`d`e`h`j`c`k`f`^`Z`R`^`C`Z`
h`^`S`V`T`c`e`Q`_`c`R`A`Z`Y`^`S`R`h`^`d`S`j`d`e`R`c`k`V`
[R`A`T`Y`T`Z`S`j`d`e`R`I`Y`Z`Z`Y`T`Y`A`Y`h`d`e`d`f`_`f`
U`_`h`^`T`k`V`d`j`T`Y`f`d`e`U`k`V`e`L`^`e`e`c`V`^`S`V`H`
`Z`V`k`U`^`Z``h`R`j`^`C`I`Z`e`Z`?`Z`f`^`Z\ae`_`C`Z`
a`^`d`f`X`Z`h`R`Z`R`d`Z`a`c`k`V`U`^`Z`e`R`^`Z`e`V`e`R`k`[f`Q`
T`U`k`Z`_`V`X`f`Q`j`e`f`_`a`Z`e`V`W`W`_`R`^`Z`_`I`
^`e`c`^`h`j`^`Z`S`R`_`^`^`R`e`R`^`Z`_`^`^`a`f`e`V`C`R`^`Z`
T`I`j`R`a`R`c`R`e`R`^`Z`T`j`W`h`j`^`Z`a`^`h`^`U`f`[V`Q`V`
d`V`Z`d`j`T`k`f`^`d`Z`^`S`T`h`V`h`d`a`e`^`T`k`V`d`j`^`
^`e`T`k`V`_`Z`Z`j`^`T`k`R`d`V`^`L`a`^`U`V`k`j`^`h`Z`^`_`Z`V`
a`^`h`Z`Z`V`_`k`R`I`k`R`Y`^`_`Z`I`k`_`C`I`Z`a`^`k`d`e`R`
h`R`Z`R`a`^`k`R`U`d`e`a`V`^`U`_`_`h`^`T`k`V`d`j`T`Y`
f`d`e`U`k`V`e`Z`^`^`Q`I`Z`^`C`I`Z`R`^`Z`f`k`j`d`R`_`Z`R`Z`I`
W`e`^`R`I`I`Z`h`T`U`k`Z`_`j`^`^`Q`j`T`Z`^`Z`

A`_`Z`h`R`I`_`a`Z\af`_`a`h`Z`Z`V`_`Z`I`k`j`Y`d`Z`a`
k`h`j`d`e`a`^`h`R`Z`^`f`a`^`U`a`Z\Ik`_`V`X`c`e`Q`I`
_`j`T`Y`a`c`S`j`V`^`e`h`k`U`c`^`h`^`e`j`T`Y`L`S`a`U`^`T`j`T`Y`
h`j`_`Z`Z`V`^`a`c`T`V`f`d`e`R`c`k`V`Z`R`d`Z`a`^`c`R`Z`k`^`f`L`
a`^`h`Z`Z`V`_`c`e`h`_`Z`I`^`T`Y`R`R`e`V`j`k`h`R`Y`d`Z`a`
f`^`Z\ae`_`C`I`Z`a`c`^`h`R`U`k`V`_`Z`R`d`j`d`e`V`R`e`j`T`k`V`
^`S`d`V`h`R`I`I`Z`^`d`R`k`a`d`j`X`e`h`j`h`R`Z`R`Z`h`j`^`I`
_`j`h`R`Z`R`V`V`^`V`e`R`c`j`T`Y`k`R`S`Z`X`e`h`Y`Z`X`I`
`Z`I`k`j`T`Y`i`h`c`R`k`Z`^``_`Z`I`k`_`C`I`Z`L`^`a`c`R`I`h`j`I`
h`R`Z`R`[R`U`^`d`a`Z`f`Z`a`d`j`X`e`h`R`Z`R`a`^`d`Z`e`h`
k`X`U`Z`V`k`a`^`e`c`k`V`S`R`^`Z`a`^`U`a`Z\Ik`_`V`X`^`c`R`k`
f`U`k`Z`[R`Z`R`a`Z`h`c`k`V`a`^`^`T`j`h`_`R`X`j`T`Y`
h`j`a`R`U`R`I`Y`Z`k`R`I`Y`c`^`h`R`Z`R`I`Y`^`Z`

4V`I`Y`j`U`S`c`V`X`^`a`Z\af`_`R`^`^`Q`_`R`^`^`c`V`C`Z`
h`W`U`f`X`h`k`^`d`a`^`U`d`e`R`h`^`h`j`T`Y`T`V`I`Y`U`[I`
c`k`R`M`^`d`S`^`h`^`C`I`Z`^`Z`@`k`R`I`k`R`e`S`c`R`_`R`U`
^`Z`c`_`V`I`c`R`A`I`I`Z`_`R`S`^`U`^`T`V`h`j`a`j`h`R`I`^`T`V`
k`a`^`a`a`U`e`h`L`f`^`Z\ae`_`R`c`V`R`A`I`I`R`_`R`d`j`e`f`R`I`I`V`
j`a`^`c`U`_`V`L`h`j`d`^`R`e`j`[V`R`_`I`I`R`_`R`W`f`d`e`c`R`
I`j`a`L`R`T`V`a`e`h`R`Z`V`d`h`^`Z`Y`d`R`S`^`C`I`Z`Z`a`^`c`R`
Q`V`S`V`k`a`^`T`k`f`T`Z`R`^`j`a`d`^`Z`Z`A`k`^`h`Z`A`U`[c`k`R`j`
^`^`Q`V`^`Z`Y`c`e`Q`_`V`_`R`d`c`^`[L`R`I`V`_`R`I`M`j`[V`
c`V`X`j`h`R`Y`e`R`L`R`S`j`_`Z`V`k`R`^`e`I`R`j`U`S`c`V`
d`R`^`a`^`T`k`f`T`Z`R`Z`_`j`T`Y`L`e`c`k`V`S`R`k`R`I`Y`h`j`h`R`Y`
c`e`h`_`h`R`X`a`V`^`T`I`_`R`I`_`^`a`j`_`^`T`k`a`^`T`k`f`I`
T`Z`S`V`k`a`Z`I`k`V`e`d`h`R`a`d`j`T`Y`Z`I`k`_`V`X`^`Z`

5`S`j`_`a`Z\af`_`a`h`Z`Z`V`_`a`U`M`^`^`h`R`Y`
C`I`Z`Z`U`^`V`U`V`j`k`[V`_`R`a`^`U`d`e`R`h`Z`V`k`c`R`I`I`^`I`
_`R`I`Z`^`h`R`j`T`Y`a`c`k`V`k`d`Z`S`Z`^`^`e`j`h`e`h`L`
U`k`Z`R`Y`d`f`^`Z`V`_`Z`V`^`R`I`^`T`a`^`T`k`f`T`Z`^`U`a`^`I`
h`Z`U`k`Z`R`_`C`I`Z`k`R`d`Z`S`Z`V`Z`Z`_`j`T`Y`L`^`S`Z`A`I`
e`j`h`_`Z`V`a`^`d`e`c`k`V`X`R`Y`d`Z`S`Z`V`Z`a`^`k`d`e`R`j`T`Y`
j`f`U`k`Z`^`c`R`k`h`k`R`I`V`^`_`V`c`V`[R`I`I`V`r`[R`^`C`I`Z`e`L`
h`a`V`^`Z`Z`C`I`Z`Z`U`^`Z`V`^`_`e`c`^`^`h`R`Y`h`^`R`d`V`
a`^`a`a`U`j`L`V`^`T`I`V`Z`^`_`e`R`e`j`k`[f`U`^`^`Z`C`I`Z`Z`
U`^`Z`V`^`^`U`M`^`h`R`Y`h`^`R`d`V`c`V`[R`I`I`V`k`^`e`I`
T`k`V`Z`^`k`V`h`^`a`e`c`k`j`^`L`^`Z`Y`k`U`_`_`C`I`Z`U`
C`I`Z`Z`U`^`V`X`a`j`R`_`h`R`Z`R`L`a`^`d`Z`R`U`Y`^`^`c`V`
C`I`Z`_`V`^`c`R`k`^`U`a`^`h`Z`U`Z`V`U`h`^`R`d`j`T`Y`a`^`I`
e`V`_`I`I`R`e`h`R`c`a`Z`R`I`[L`U`^`Q`V`_`Z`R`Z`h`R`c`e`^`C`I`Z`^`Z`
H`c`V`R`I`Z`^`h`R`Z`W`_`I`I`Z`^`a`Z\af`_`R`^`d`S`j`
h`d`e`R`c`k`j`^`h`Z`Z`V`_`R`I`M`j`h`j`^`R`k`R`Y`d`Z`a`e`R`I`
Q`V`f`^`Z\ae`_`C`I`Z`W`W`e`j`h`_`V`I`^`^`f`_`Z`R`I`I`Z`
k`a`^`U`a`Z\Ik`_`j`^`Z`4`k`a`C`I`Z`e`V`I`^`^`f`_`Z`R`I`I`Z`
h`j`d`R`I`R`d`Z`h`d`^`h`R`I`Y`L`h`Z`a`d`c`^`C`I`Z`[V`U`_`R`

³⁶ M0"Dew o cpl" *4228+0"Quqd{ "y" qmtgulg" r» pgl" fqtquf q ek" lcmq" qLct{ "pcf w { 0" Igtqpvqnik" Rqumc."vq o" 36."pt"5."u0"33;63460

³⁷ M0"M f|kqtc/Mqtpcvqumc."C0" I t|cpmc/V{myk umcl" *tgf0+0" *4223+0"Quqd{ "uvctu|g" y" urqfeg|g uvykq" kphqt/ o ce{lp{ o l Igtqpvqnik" Rqumc."vq o" 3; ."pt"4."u0"329/3330

³⁸ O0" Icu|{ umc."U0" I» f ."O0" Mw ."L0" Ngukgyke."C0" \cucfc/Ejqtcd0" *tgf0+0" *422; +0" Rtqitc o" Pcwe/cpk0" Orkgmwp"Quqd{ "uvctu|g l0" Yctu|cyc" Okplugtvuy q" Gfwmccl" Pctqfqy gl0

³⁹ G0" Y {uqemc0" *3; ; ; +0" Y |»t" quqdqy {0" }y<" V0" Rknej" *tgf0+." Gpe{mqrqgfk" Rgfc i qike|pc" ZZk" y0" *u0" 852+0" Yctu|cyc<" Y {fcyplevyq" Cmcfg o kemlg" s cm00

^{3:} C0" Umtge|mq0" *3; ; ; +0" Quqdqy q 0" }y<" G0" Q|qtqy umk" *tgf0+." Ufgyplm" O c e g uvyc" k" tqf|kp|f" *u0" 544/546+0" /q o kcpmk<" Y {f0" CVM" k" Hwpfccl" Rq o qe0

^{3:} G0" Y {uqemc0" *422; +0" Y |»t" quqdqy {0" }y<" V0" Rknej" *tgf0+." Gpe{mqrqgfk" Rgfc i qike|pc" ZZk" y" *u0" 852+0" Yctu|cyc<" Y {fcyplevyq" Cmcfg o kemlg" s cm00



h ZU Tk_R [Vde h _Zh VcSR]_M r^`h ZV
TZRR_L U]ReVX` aZ\af`h ZV ackV\Kkf[°
h Z[VZ Wc^ RI[Zcch_Z] kRa`^`T° Z_e l
_RI[Z^ Z ZZTlj Xvdj \f]RI[Z^ Za`h Z_Z
kh cRIRY`Re` SRlk`° f h RxaZ

? R h kéc`d S`h` OEZh kSf UKR° TV` a` l
UKZh Ldj` a`ReZ\TkrDv^` Rh Ve kRkUc` OE
d`RUR° dā` a`h dkVIY_ZV R\Tvāe`h R_V
TVIYj` Tk^h Z\AR` dēR`h Z`TV ZVR^Z` ;Vde
e`d` SRl\ēc° TVIYf [Va` Tkf TZ/ SVkaZl
TkVēdh RLT` adkj Tlj`_ZR dā U` c`kf^ Zl
_ZR` ackV`_ZX` adkj Tlj`_h` †` d f e`l
h VX` TYRcRēvcf` kRIY` Uk° Tj TY` k[Rh Zl
h` G ZVIZ\Zak^ h Z\` Tkf [Vdā UkZā\Zēv` f
aV`_`acRh`_j`^` Tk^`_ZV^` h` daē]`_`g`L
h` \ēcM` [fj [VZ@d` SR`eR`R`a` dRUR`a` Tkf l
TZ/ dV` d` h` Rd` VX` [fj TZ\Xc`^` RUKZU l
G ZRUIkV`_ZL`c` kh ZR` dāL` TkVcaZ` cRU` OE
k`h` Rd` j` TY` d`Z` X` ZāL` U` SckV` k`_R` dh` [V
h` RuJ` ZkR[Vej La]R`_j` [fj TZ` h` VU` dē` d` h` f [V
U` dh` ZY`^` [fj]Zh` OEZ` TYRcRēvcf` kf [Vdā
a` Tkf TZ^` cVR]Zk` f L` RUM` h` Re`_Z` V` Zēvd
acVef [VckVlk` h` Zē` OEZa` eR\Zd` f` eVlk`_ZV
UKZRRYZH` a` cā` U` dēckVXR` Z`c` kh` Z` kf [V
ecf`_` OEZ` R]V` f`^` ZV` eR` [V` f` k` RY` h` Rd`°
SVkdZ`_` OE`h` SVT` eVX` LT`_` ZV` f`_Z`_Z`_V
Z`_RT`_` ZV`^` R`h` a`g` h` f` Zā` eR\Zc` ka` k`_R`
h` RY` dh` [V` acRh` UKZh` V` f` Tkf` TZL` [MU`_R`
eckj`^` R` [V`_R` h`_` Ukj`_Z`_RUR]V` Z` h` R`OEZ
hj` hj` cRkZ`R`_f [V`_RU` Z` af`]dR` Z`_ēecV
_ZV` d` Rac` S` h` R`_V` h` da`^` Vlk`Vēdh` ZZ
H` Rd` V` acRX`_ZV`_ZL` R` SZI[V` Z` a` eckV`Sj`L
h` daē`kRh`_` U`_Zl`h` Rē` cVR]Zf [V` SVk` a` a`R
UR`_Z`h` \`_` VZ`ej`Z@d` SRL`h` Wuf` X`eR`_Z`X`
h` k` cf` d` S` h` OEZ` [Zlj` dā` kv` da`^` Vlk
_j`^` Zh` j`^` RXR`_Z`^` Z`cVā`V`ef [Va` eckV`Sj
Z`_j` TYL`R]V`_ZV` hj` ckV`R` dā` dh` [M` Z`_Uj` l
h` Z`f` R]`_` OEZ`_ZV` cVkj` X`_f [V` k`^` Z` OEZh` R

d` VZā` eR\Zc`_` ZY` dh` ZY` Z` eVcVēhL`_ZV`
a` kh` R]R` dā` hj` \` dj` dj` h` RY` Z` dj` h` UkZYZ
H` \`_` eR`eRIY` k`_Z`_j`^` Z]f` U`^` ZkRIY` h` f l
[Vdā`_` Ref` cR]`_ZV` Zcā`_` eR`_Zlk`_ZZ`@h` RēTZ/
\`^` f`_Z`f [VZ`_j`^` TkVX`_` U`_ZY`_` TkV`f [V
Z]R` TYIVSj` YēR`e` h` R`_RZ`YR`cR`ēvcj` kf [V
dā` f`^` Z]āe`_` OEZ` h` daē`qj` TZ` Zh` daē`acRl
Tj` Z`Adj` k`_R]V` d` SZ` acRh`_` U` a` aV`_ZV`_Z`
S`aUēhL` [MU`_R` h`^` Zcā`^` [fj]Zh` OEZ` dēR`
dā`_` RacRh` RY` hj` ck` Uk`_` V` dk`_` Uj`^` Z`A` l
dRUR` dēRZ`_V`_` c`^` j`^`^` cR]`_` V`_L` a` X`^` Uj`
Z`ackV`_`_R`_Z`^` Z`A` eR\Zc` [MU`_R` [V` \` c] l
X` h` RY` a` U` h` a`g` h` V`^`_` h` j` TY` Z` Wc^` RI[Z
ZU` G` ZRUIkVē`^` Z

@aZ\af`_` d` Sj` dēRckV` a` h` Z`_ZV`_` Sj` Y
TYāe`_j` U` c` kh` ZR`_Z` h` dkj` dē` ZY` TVIY
dh` [M` d` S` h` OEZ` ZkSāU`_j` TY` h` dācRl
h` h` R`_Z`^` aZ\Z` eR`_ZY` [R`+` R\Tvāe`R]R
Ucf` X`X` Tk^` h` Z`AR` Zā` dR`_` h` R`_ZV` [VX`
X`_U`_` OEZ` X` e` h` OE`_Z` dāZV`_Z` a`^`^` Tj` Z` l
j`^` L` Uā` h` ZUKZ]`` OE` kR` a` UM`^` h` R`_V`
UKZRR`_ZL` h` cR]Zh` OE`_R` TZVcaZ`_ZV` Ucf l
X`X` Tk^` h` Z`RLR`ej` h`_` OE` Z`dR`^` UkZ]l
_` OE`h` UKZRR`_Z` Lf`^` Z]āe`_` OE`h` daē`acRl
Tj` h` kvā` [VLU` [V`_ZV`_` a` d` VckR`_Z` h` Zl
Ukj`_Z` dR`^` c` kh` [f` L` kUj` d]j` a]Z`_` h` R`_ZL`
a` eckVSR` dR`^`^` TV`_j` Z`dR`^`^`_`_` ec` [Z`^` Z

HRcē` adkj` \` Rk]Z` R` R]Zj` d` S` h` OEZ
^` aZ\af`_R` kh` cēTZ` f` h` R`Xā`_R` SRlUk`_`_Zl
TY]f` S`_V` k[Rh` Zl`_`_Rkj` h` R`_V`_RUF` [fj` TZ^`
h` SVT` dēS` h` \` cVā` ae`^`_` V` U` c` dR` OEZ
\ēcV`_R]V]j` c` kf`^` ZY` [R`^` a` [Vj`_` TkV]f` S
a` h` eRckR]° TV` dā` UKZRR`_ZV` [f` S` ScR`_` Uā` l
h` ZU`_Z`X` UKZRR`_Z` h` j` dēaf` [° TV` h` [R`_Z]l
\` [h` Z\` cVR] [Z` h` \ēcV` [TkV`f [Vdā` kRf` W
_ZL` \ēcR` a` h` Uf [V` d]j` h` Uā` S` U` TZ` caZl
ZV` d` Sj` h` \` cVā` ae`^`` V` U` c` dR` OEZ`^`_` [V
^`_R` adkj` SZ` dR`Y` cē] V` Wc^` j`+` ackV`^` Tj

42 O°Ejqoe|{ umc°ó°Oknu|mkgyke|0°*3;; ;+0°Tqf/kekgnuyq."ok f|/"ykgf| "c°kpwkel 0°MtcM»y<°K°o rwnu0
43 Vco g
44 U0°Mcy wnc0°*3; 97+0° ykcfqoq "y/ejqycye/c°taf/ke»y0°VqtW <°Wpkygtu|vgv°Okmqfēlc°Mqrgtpkmc0
45 O°Ejqoe|{ umc°ó°Oknu|mkgyke|0°*3;; ;+0°Tqf/kekgnuyq."ok f|/"ykgf| "c°kpwkel 0°MtcM»y<°K°o rwnu0
46 O° Icu|{ umc."U0° I» f ."O0° Mw ."L0° Ngukgyke|."C0° \cucfc/Ejqtd0°*tg f0+0°*422; +0° Rtqitico°Pcwe/cpkc0°
Qrkgnwp°Quadl°wctu/gll°Yctu|cyc° Okpkuvgtuyq°Gfwmccl°Pctqfyggl0



2CE:4=6D

Vġj Tġ VġLadj TYZIk Vġ. VġR_d h VġR dR VġV
 Z_eV_Ti_Rj_VX jfS_ZZ_eV_Ti_Rj_VX kRġ
 _ZUSR_ZZ_RUF_Tj_TZh`SVT`dēS h`dēV
 aē`_M U c d` CIEZ ackV[Rh_Z]° h cēf_lj_TY
 Wc` RIVZ`ed Sj eVSRUk` Tkādē` d kR[V`_l
 h R_V VġeV` L[V d` VġR` Z_RUF_Tj_YL_Z
 TYT` `ej` ^` ēh_Zġa`_Zh R] d` Zf VVġ_Z
 TYT` h Zġdj_Y h e` T ZIY da` eR` L_Z/U l
 af d kRk] U Cġ ZU` ^` CIEZ[VZ` dġe` adj l
 eR[V L` R]` _RUKZ[āL[V dē` d h R_V h` SVT
 _ZIY` _RUF_Tj_TZh` d` Z_Tj UV_eR]_V Zh` cēeIV
 dġd` `ēTē` Ld` kRġ dj Uk`_Vkh RkIkR_XJ
 U Cġ ZUkR]° ackV` Tj kV dēc`_j Tk`_l
 \ēh` c Uk`_jLS` [° dġL[V k` dR`° h j dēf T l
 _V_Rf]Zā` S`U` `UR_VU` U` ^` f dēRfēhL
 `SRh_Z]` dġL[V[VQZ` ^` f Cā` h ZUK` LZIY
 ġ f RIR dġ a` X cġj` *Z5]RēV` h_Z]Zh R
 `SdVch RIR` aZāf_Ra` h_Z` Ra` h` U h RY
 `Uġ h R_Z/ZkRa` SZXR_Z` ^` [Zh` CIEZ h j l
 dāa` h R_ZRēV` ġ af k[Rh_Z]Z

**SZ DE? K5C@H:2 @A6<F?2 @D@3J
 H DE2OKJ> H:6-F**

5` Sj dR` kUc` h ZR` `aZāf_R` `d Sj
 h dēRdj` ^` h Zāf e` _ZkSāU_V` ġ ġ ēVġ` ^
 a` kh RIR] IV_RSj TZVX U_j` ^` kRf Vġ_Zh Zġ
 ġ X U_j` Zj da` kj Tj [j` ^` ZKR_R]Zzh Zē l
 h V [cXR_ZRIR]ZKUC` h ZR_hj_ZR[V V Zē_Z[V
 CIEZ RkR]V` Cġ` ZUkj kUc` h Z` adR` h_Z
 \ēh L Rh kc` dēV` ZIY ac` Uf` ġ ġ h` CIEZ h adR
 Tj Z3cR` adkVIZh dRkRē kUc` h` _ej TY_R]Vj
 c` kaRēj h RY kh` RkIkR a` U h kX]āUV` ad l
 TYZIk_j` ^` L R]V h R]_V d` eR[V U ġ da` kj T]V
 a` U h kX]āUV` Vġj Tġ_j` ^` L T` ^` R` _Z` RēV
 k_RIKV_ZU]Rhj` \`_j h R_ZRkRh` Uf` `aZāf l
 _R_XJ [_R]Vj ef` ^` ZY` Rh kX]āUV h` R] V

`XcR_ZIkV_ZR Vġj Tġ_VZ_Z/a` UM` ^` h RY h j l
 dZāf a` _RU` ^` ZcāZ AckVIZh h dRkR_Z` U
 h j` \`_j h R_ZR adR]j` `aZāf_R` `d Sj dēRckV
 ^` X` Sj Y TY` c` Sj kh j c` U_Z_Z h V` cāX l
 d f a Rē adkVāf \Zj a RIVh_Z` h V` dRk_Z_V
 dIY` dV_Zh` ēēġ TY_Zh dRkR_V[Vdēa` U
 _` dV_Z/TZ[Rēh` # Z

AcRIR dR` `h ZZ ēVXcR]° Zh R]_° TkāCġ
 \R]UVX` Tk` h ZARZ5kZAR]` Cġ kRġ` U h R
 dēR` `h Z adkVU h dġ dēZ` "cēU` f eġġ` ^` R
 _ZLUV] UF[V` `a` kj T]Z da` VIK_V] Zh UF l
 [V` ^` Z dēV h a ġ h R` _R` \dēRē h R_Z` dġ
 ē` [dR` ^` CIEZ [VU` `dēZ` ? Z dēVġ UkZAR_Z
 kRġ` U h V dēR` `h Z cēh_Z] "cēU` k_RIK
 _VX` STZ [V_ZZ3RUR_Zh j` Rkf [° L]V dēV d
 kRġ` U h j [Vdē da` dēkVXR_j [R` [VU`
 k Xēh`_j TY kRXC` [Vē kh Z kR_j TY k` ^` Z l
 dIV` kRēf U_Z_ZR Zh` ^` Z_ZR_j adkV k adR
 T h_Zēh [R` Uf XZia` YRēRZV` Tj_Z
 dġ` Uk` Tj ZIY kUc` h Z` # ZAY` TZ] h dē` kV
 CġZ h adR]j h j dāaf [V` ^` _Z] _Z] \ZUj CE
 cēf` `cR_ZIY kRXC` [Vē Lē [VU_R` k_RIK_Z
 h kc` dR [ZIKSR` dēSLf dR[R]` Tj TY dġ _R
 _VXRēj h j h a ġ h Tj_Zēh ad j TY da` l
 VIK_j TY eR_ZIY [R+_RU` Zc` V` STZ [V_Z
 adR] La` CġZ IYL adV R T kRf L` \` Vġēj Z l
 ēVcāVcd` _R]_Vġ` _ZāVh` _Cġ` cXR_ZRIR] [Rē
 ScR` \` _ec` [Z5]RēV` h Rē` ZēkVSRUSRÝ
 ` kUc` h Z` ad j TYZIk_V` c` kf` ^` Z_V [R` ScR`
 `S[Rhēh` kRf dVē ad j TYZIk_j TY Z kRf l
 dVē kRIV h R_ZZ` 3j h R eR[V` \` dC]R_V
 [R` YR` ^` _Z` h` `ScāSZ` dēf` dēġ` `d l
 S` h` CIEZ YR` ^` _Z` kv CE U h ZāZ` da` l
 VIK_j` ^` L U ScV dR` `a` Tkf TZL kU` _` Cġ
 U` adR]j L` ^` Z` CIEZ Z UkZAR]` CIEZ eh ēēIkV]Z
 KUc` h Z` ad j TYZIk_V [Vdē \RaZēV` a` kh R

⁴⁷ M0"Dew o cpl0*4228+0" Quqd{ "y" qmtgukg" r» pgl" fqtqufġ ek"lcmq"qġct{" pcfw { 0" Igtqpvqnik"Rqnumc."vq o" 36."pt"5."u0"33;63460

⁴⁸ D0"Dedkete { m." F0"Uvgtpcf0*tg f0+0*4234+0" \cuvquy cplġ"qrkgmk" rncnkv { y pgl" w"ejqt {ej" y" |ccy cpuqycp { o" uvcfkw o"qv rġpkc0" Igtqpvqnik"Rqnumc."vq o"42."pt"4."u0"5;6660

⁴⁹ T0"Ekg ncm."C0" /wu|e| { umc"ó"Ekg ncm0*tg f0+0*4223+0" \ct| f|cplġ"vgtgug o" y" rtce {0"Rtq o qelc" |ftqyk0" Pcwmk"Urqġge/pg" k"Ogf {e|pc."pt":*43+."u0"344"ó"3620"

⁴: P0"Qik umc"ó"Dwnkml0*4228+0"Uvtgu"/cyqfyy {"y"/cyqfcej" wufwi"urqġge|p|ej0" t>fġc"ó"mqpugm yypelġ"ó"/c-pobieganie0" Yctu|cyc<FkLp0



|R|°Tj ^ _R dRjZk hR_ZV Z_ejVefRj_VX
 Z V`Tj_Rj_VX a`eV_TjRf Tk^hZAR
 `dRk k_RjVZ_VZ`UXj hR_ZV dh`ZY cēj
 h`Tj_Zf da`vIk_j^ Zh acRjZ6W_ej h_V
 hj`_j hR_ZV dh`ZY `S`hZkēhLf^Zi
 [āe`CēdRkV_Zd SZ/kvch`Z ZV`TjR^Z
 `U_R|Uj hR_ZV dā h`g`fR|RIY ecf_Uj_TY
 h_Uf`Tj^ dē_a_Z kRjVj `UU ScVX dRf
 kUc`hZ adj_TYZk_VX?`Re^Zde [VX k_j
 dR`^`TjVadj_Tkj_Z`dā_Z`ej`_`U`k`R
 Tk°TVX`S`ZjV_ZR [R`CjZ`Tj_ZZ[Vde dR`TjV
 [U`_`k`ekVIY`RjTkaCjZ] h_j`dāaf [°Tj_TY
 adj_Tkj`_Z`SVT`CjZ`h`adRj`dRk [U
 _j^`k`Xēh`_j_TY`a`h`Uēh [M`dVj`X`R|Z`Z
 @aZaf`_`d`Sj`dRckV]`a`h`Z`Z`Sj`Y`dR`TjV
 `d`S`h`_`_`U`R`X`f`Rj`Y`j`h`VX`L`U
 \R`U`URēh`_R`a`Zaf`_R`Tkādē`h_j`R`R
 dā`cēh`_Zj`_Z`aRjV`Z`a`RaZc`dēh`Z`S`R`Cē
 `U`ScV`dR`a`Tkf`Tj`Z`kUc`h`Z`adj`_`dZ
 `d`dj`CjZ`kRēh`_`h`adj`a`RU`f`h`dē`a`dRj
 ka`U`a`Z`Tj`k_j^` [R`Zh`kR`d`dV`a`U`Z`dZ
 Z`h`j`UR``CjZ`adRj`Z
 ?Z`ā`ē`c`v`k`R`h`_`U`j`h`h`Z`ā`d`j`^`dē`a`_Z`d`
 R`Rj``V`_R`dē`d`Z`j`Z`_V`Z`Ac`R`i`k`j`f`U`^`Z
 h`dR`ck`j`^`h`Z`af`k`a`Vh`_`CjZ`U`eR`Z`Y
 Rj`Vj`Z`?`Ra`Z`Tj`Z``S`Tj`Tj`V`_Z`kh`Z`kR`_V
 k`h_j`_`_`j`h`R`Z`^`Tj`_`_`CjZ`_`a`Z`af`ē`l
 Tj`j`TY`Z`a`Z`j`ā`X`Rj` [j`TY`L`^`Tj`V`ac`h`R`U`k`Z
 U`a`h`R`j`_j`TY`_V`X`R`j`h`_j`TY`_R`dē`a`dē
 h`cē`_j`TY`d`W`R`I`Y`W`_`Tj`_`h`R`_Z`_`a`Zi
 \f`R`L`kV`d`k`T`k`Xē`_j`^`h`d`R`k`R`Z`^`_R
 ac`V`R`ē`j`_`ā`h`j`a`RjV`_Z`Z`@`d`Sj`kR`h`_`U`h`
 ac`W`j`_`_Rj`_Z`kR`^`f`°`TV`dā`_`d`S`R`_`Z`dē`Rd
 d`j`^`Zh`cē`_j`VX`ē`af`a`|R`I`ē`h`_R`I`Y`d`f`°`Sj
 kUc`h`Z`R`j`f`S`Z`d`j`ē`f`Tj`RIY`_`TY`R`ē`_`ē`d`kV
 `a`Z`af`ē`Tj`k`_`d`U`a`V`_Z`_j`TY`W`_`Tj`Z
 adj`X`ē`h`R`_V`a`U`ē`j`^`h`k`X`ā`U`V`Z`_`TY
 \h`R`j`Z`R`I`V`Z`_`^`a`Vē`_Tj`V`_`S`_`d`a`Vj`l
 V`k`_Z`V`kR`h`_`U`h`j`TY`L`f`h`k`X`ā`U`_Z`_`dR`_TjV
 h`Z`U`k`ā`Z`f`^`Z`j`āe`_`CjZ`f`_Z`f`_`_`h`R`_V`_R

ac`V`R`ē`j`_`ā`h`j`a`RjV`_Z`Z`@`d`Sj`kR`h`_`U`h`
 h`ē`j`^`dR`_TjV`h`j`a`RjV`_Z`Z`Ac`SjV`h`j`a`RjV
 _Z`Z`ē`_ZjV`_Re`^`Z`dē`h`g`f`R|Z`_Z`ac`W
 d`_Rj`_V`_`a`Z`_Z`_RU`_`d`S`_`dR`ck`_`h`h`R
 cf`_R`I`Y`U`^`_`h`j`TY`j`f`S`h`c`U`k`Z`_Z`Z`kādē`
 [Vde`_` [U`_R`_`ē`_`Re`e`R`S`f`Z`Ac`j`k`_R`h`R`_Z
 dā`U`_`Z`dR`kV`_Z`d`S`Z`k`_`a`Z`^`_`RU`dR
 j`^`L`Tkādē`_`TY`g`^`c`U`k`Z`V`^`^`_`Tj`Sj`Y
 `TV`_Z`_V`h`_`Re`V`_`c`R`I`Y`d`_`v`Ik`_j`TY`L`^`_`l
 c`Rj`_j`TY`L`R`dR`_TjV`c`V`Z`Z`_j`TY` [R`_`f`_Z`_Z`
 h`j`a`V`_Z`_Z`_`a`h`Z`_`CjZ`U`c`d`V`X`_`U`k`Z`V
 \R`h`_`SVT`dR`ck`j`TY`c`U`k`Z`ē`h`Z`ā`dR`UR`_Z
 Z`ā`ē`j`TY`Tj`TY``d`S`_`h`_`CjZ`h`j`TY`ad`kV
 `a`Z`af`_`ē`h`d`k`T`k`Xē`_Z`h`a`j`h`R`_R`k`R`X`_`l
 TjV`_Z`h`j`a`RjV`_Z`^`Z`k`R`Z`k`R`_`dā`U`_`ZY`+
 ^`_`T`_V`_R`_X`R`_`h`R`_Z`_`dā`h`ac`R`I`ā`L`U`f`_TjV
 `T`k`V`Z`h`_Z`_`h`k`X`ā`U`V`_`h`_R`d`_j`_`d`Sj`L
 _VX`h`R`_Z`_`h`_R`d`_j`TY`_X`R`_Z`_`S`Tj`_TjV`_Z
 d`j`TY`R`_Z`_R`UR`|`d`j`_`a`|R`_`_`d`S`Z`ē`j`TY`a`_`l
 e`ck`V`S`Z`Z`ē`v`ē`h`_`dR`_`RU`^`Z`c`_V`adj` [l
 ^`_`h`R`_Z`_`_`h`j`TY`_`S`_`h`Z`k`ē`h`_`Z`k`R`UR`ē`Z
 zh`Z`U`^`_`CjZ`k`R`X`_`TjV`ē`Z`U`_`R`_`Z`Z`c`_`kh`_` [f
 k`V`d`_`f`_`h`j`a`RjV`_Z`_`h`Cē`U`_`dē`S`_`CjZ`_Z`U`k`_`l
 Tj`TY`_Z`ac`_`W`j`_`_Rj`_`_`a`^`_`_`T`U`j`R`d`V`_Z`cēh
 a`_`kh`Rj`Ra`_`dē`k`V`X`Y`ē`V`_`d`_`U`c`^` [R`_`ac`_`l
 S`jV`_`Z`_`U`j`h`Z`f`R`j`_`Z`d`_`v`Ik`_j`^`Z`Z`_`Rj`Z`R
 ac`SjV`_`ē`h`kUc`h`_`ē`j`TY`d`_`R`_Z`_`k`Rē`V`
 U`_`d`W`ē`_`f`^`h`R`_Z`_`ē`k`_`k`_R`_`^`Z`_`T`_`M`_`TjV
 `a`Z`af`_`_`d`Sj`dRckV]`a`h`Z`Z`_`a`U`l
 ^`_`h`R`Y`cē`_`_`dR`Z`_`dē`R`_Z`_`_`k`R`I`Y`_`h`R`_Z`
 U`ScV`_`dR`_`f`_`ch`_` [VX`_`kUc`_`h`Z`Z`

A@5IF> @H2?:6: H?:@D:

DēRckV`_Z`dā` [Vde`_`Ref`cR]`_j`^`_`Z` [U
 ``TkVCEZ`_Z`Uh`cRIR]`_j`^`_`ac`_`TV`d`^`L`
 \ēē`j`kR`I`Y`_`U`k`Z`_`h`_`c`_`kh`_` [f`_`d`S`_`Z`l`j`^`
 h`d`j`dē`_Z`Y` [f`U`k`Z`_`VU`_j`^`_`k`_`Tj`_`_Z`ē`h
 U`Vē`c`_`Z`_`f` [°Tj`TY` [VX`_`ack`V`S`_Z`X` [Vde`d`kV
 c`_`_`_`c`_`k`f`^`_`Z`_`V`_`Cē`_`U`_`h`_`Z`_`_`L`_`ēē`c`V`_`h`_`a`_`j`_`l
 h`R`_`R`_`ē`_`L`_`Tj`_`dē`R`c`_`Cē`_`S`_`ā`_`U`_`k`_`Z`_`adj` [R`_`R

4: M0°F dtqy umk0°*3; :7+0°\ftqykg°rufejke/pg0°Yctu|cyc<°RYP0
 52 O0°Tqucnmcl°*422; :+0°Yurctekg°fnc°rqocicel e{ej0°Rtqdnqo°y{rcngpkc°w°qu>d|clowl e{ej°uk°ugpkqtco k0°
 Jy<°T0°Mqpkqepc°óYq plcm°*tgf0+°Fqtqéq °yqdge°inctq ek0°Qe/gmkycpk0°Tcfq ek0°F/ngocvf°*u0°45; /46; :+0°
 Rq|pc <°Y{fcyplekyq°Pcwmqyg°WCO0



2CE:4=6D

UJR Tk^a h ZARL Tkj eMj _ZŽ@acēTk c UkZ
 _jL adkj [RIZē aVcd _Vf ^ VUj Tk_VX L
 e acRf h _Zj d TIRj_ZZ aZaf _h ZV d
 a CEMU_Z ` Ua h ZUKRj_ZkR [R\ CēVX
 ac Tvdf f ` dēS deRcdkj TY^oŽ

C JZa` kj TIR Tk^a h ZARh ` \cVdVaē“l
 _Vj U c d^a CIZh _` h` TkVd_j ^ Lk^ ` Uvd
 _Zk h R_j ^ da` vIkVēdh ZV SRdUk` dZa
 k^ ZV_ZRŽ 4kRd h Zaf aē` _VX e` ` \cVd
 hj TZkV_ZRkRdf f` _VX h_j a` Tj_kj _f a`
 acRfj Zhj TY` h R_Z k ZV_TZ; VU_R Tkál
 de` _Zdēvj kURckR dZL fV h cRk k ackVl
 CIZ^a _R V^ Vj ef cá a` XRckR dZa h d R` l
 _Z deRef df da` vIk_VX Zj j TZ h VX eMj
 Xcf aj Jf UkŽZ EckVSR aR^a ZaRý` e^ ^ L fV
 deRkV_ZV dZa [Vde ac` TvV^a L Uj ReVX _ZV
 a` h Z_ZV` e` Sj Y` \cVd TR^a h ZVX` h j l
 T W_ZR dZa k f j TZ da` vIk_VX L f j ef cRj l
 _VX Ze` h Rckj dZAX La` _Zh Rj ^ ` fVē
 da` h` U h Rý f Rēj h _ZV_ZV dZa deR ēh
 UVacVj [j TYL` dR^a ` e_ZV_ZR Z Zk` jRj ZL
 \ēcVackj Tj_ZRj dZa U` a` X cckV_ZR [R
 \` CIZ f j TZ^a Ž

A` _Zh Rj c UkZ_RLk a` h` Uf k^ ZR_j
 [V] decf \ef ej k ecRuj Tj [V] _R h daēTkVl
 d` ` cRk` XcR_Zik` _V^ ` f j Zh` CIZ` CE U
 \ēh a` ^` Tj da` vIk_Vj Za` UdeRh` h Vj
 ` aZAZkUc` h` e_Vj _ZV d` h` deR_ZV kRl
 aVh` Zý` d` S` ^` deRcdkj` TR^a UkZV` _Vj
 R_Z TR^a U` S` h Vj ` aZAZL eR^a ` ` aZÁ
 Xh Rck` ef [°` ` aZaf` _` h ZV Z_Uj h Zf Rj_Z
 ` cRk rU` ^` j` da` \` [V] deRc` CIZL XUkZV
 kRef U_ZRj [Vde VeRe` h` ` Z_R k^ ZR_j
 h j \h Rj_ZZ` h R_j aVcd` _Vj ` aZaf` ēh
 daV^a ZRj` Tj TY` ` \cVCE` _V h Rcf` _Z a` U
 h kX]áUV^a a` dZRUR_j TY` ` ^` aVēV_TjZL
 U` e j Tk` Tj TY` h j \dkeR^a TV_ZRē` d` S` h` l
 CIZ [R\ Z acVuj da` kj TjZ kUc` h` e_j TYŽ
 ? Zh ZV f deRcdkj TY Jf UkZ TYTV [VU_R
 \` dj deRýk eVX e j af a]RjTēh V_LRc` UkZ

_ZV kRkhj TkRf ecf U` [Vde a` Uj` Y UVI] l
 k[á` ` UUR_Z S]ZAZM ` d Sj a` U` aZÁ
 dacRh` h R_` a` kR c` UkZ_j^` U` ^` V^a Ž
 5]ReVX eMj T cRk TkáCIZM] dj ef Rj]á eR^a
 c` kh Z kf [VkrRef U_ZR_ZV` aZaf` ēh h j l
 \` _f [°` Tj TY dh` [VkrUR_ZR h Rcf` _RjY
 U` ^` h j TYŽ; VCZ [VU_R a` U aZVik_j
 ecR^a U` k` cXR_Zk` h R_Vj a]RjTēh \Zc` l
 UkZ_R \Zcf [°` T dZa ec` d` ` S]ZÁ` ` d SaL
 a` h Z_R \` _ZVik_ZV kRUSRý` deRck` _V
 dacRh UkV_ZV cWVēV_TjZ U` ^` f` ` aZAZL
 h` \ēc j` k` deR_ZV` ` _f^` ZdkTk` _jL
 dkTkVXē]_Vj \` _ec` jZa` h Z_j a` UjVXRý
 \` ^` aVēV_TjV` ` aZaf` ēhL XUj f j` e j l`
 h j d` \ZV \h Rj_ZZ_Rj]V aVcd` _Vf` ^` X^a
 kRaVh` Zýac` Wd]` _Rj_` ` aZÁáZÁ UikRd
 ` Uh ZUKZ` _RjVj eR^a fV` SdVch` h Rý
 da` deS dacRh` h R_ZR eMj ` aZAZL a` _ZM
 h Rj ^` ^` fVē CIZ RjUk j Y` e j ^` L[R_Z [Vde
 ` aZaf` _V^a ZTj k a` h Z_ZV` _Z` Sj YŽ5V
 Tj Uf [°` TV deR` _h ZÁ` ^` ^` fV [VU_R kRj` Y
 e j l` ` a` U aZVik_j L a` _Zh Rj e j l` ` _
 h ZV Tj k [VX dR^a ` a` Tkf TZ [Vde _R e j V
 U ScL S j kVIYZR^a daáUkRý da` c` TkRdf
 k \Z` CE` e` _ZV h kSf UkR [VX` kRf W_ZR
 Jf S` adkj \ēcVj ` Uikf h R Uj d` ^` WcēŽ
 5` e j Tj k e` kRcēh` _` ` aZAZ dacRh` h Rl
 _Vj h kZ de j ef Tj` _RjZk` h R_Vj a]RjTēh TV
 [R\ Zh h Rcf` _RjY U` ^` h j TYŽ

5` ` dēS _ZSáU` Tj TY ac` Wd]` _RjZerl
 ^` Zh CIZ RjUkV_Z f df X` aZaf` ēTj TY
 UjR` dēS h deRcdkj^` h Zaf L a` h Z_R
 Sj Y dZc` h R_R` WcēR VUf` \Rj [R f \ZM
 cf` \` h R_R` _R ackV Rkj h R_ZV h ZUkj
 ih j` ^` RjUj L f c j L d k \` jV_ZR` ` cRk` _R c` kl
 h ZR_ZV dVc` \` c` kf^` ZR_j TY` ` ^` aVēV` l
 Tj Zh kR cVdV` cRukV_ZR d` SZV h adkj aRj
 \f` _Zá` h` UkVēLh e j ^` eR^a fV a` h Z_R
 Sj Y ac` h Ruk` _Rac` W^a R e j \R h j aRjV_ZRŽ
 :_daZRIj` U` eh` dV_ZRac` XcR^a ēh k kRl

⁵³ M0"Dew o cpl0*4228+0"Quqd{ "y"qmtguk"r» pgl"fqqtuq ek"lcmq"qLct{"pcf w { 0" Igtqpvqnik"Rqnumc."vq o" 36."pt"5."u0"33;6346l

⁵⁴ M0"Dew o cpl0*4228+0"lcmq " {ekc"qu>d"y"qmtguk"r» pgl"fqqtuq ek"ó"f{umwtu"vgqtg{e|p[0"Gerontologia Rqnumc."vq o"36."pt"6."u0"3876393l



\cVdf ^ Vj e' cj Tk VX a`cRU_Ztéh Rk k l
cZV`e`h R_VX _R eR`d` Z[á a` UdeRh` l
h j TY Z`Wc^ RI[Zc` kh ZR_ZV`lf Tk` h j TY
f`^ Z[áe`_CIZ` `cRk` \`^ aVéV_TIZ h` `Sl
ckRckV` aZ^ZUJR` aZ^f_éh` `dÉS dèRd
dkj TY` ^` ¶V Sj Y` kRac` [V`e`h R_j` ackVk
6ZŽDèVg_V` dC` dV` R_RZAZ`=Vf`_XR`^` `UM
ac` XcR` f` VUf`Rj` [VX` ŽH` ^` `UMf` ej` ^`
h j` UcaS_Z`_` dZUV` ^` `Uf`^eh` +

"ŽsfU`h`R_Z`cVRI[Z`kRf`W_Z`Z`a`UMI
CIZ`f`VZcf`_`h`R_VX`_R`a`^`T`d`l
S`^` dèRckj`^`L

#Ž`^`f`_ZRI[R`k`dV_Z`cR`Z`k`kRSf`ckV
_Z`ZaR`ZaZL

SŽh`a`j`h`TYc`_Zik`VX`Sélf`_R`kRIY`l
h`R_Z`dÉS`dèRckj`TYL

%Žc`ka`k`Rh`R_Z`UVacV[Z`f` `dÉS`dèRd
dkj`TYL

&acRIR`k`d`SR`Z`dèRckj`^`ZZZY`c`UkZ
_R`ZL

'Žec`dR` `dR` VX` dZSZL

(Ž`VZc`h`R_Z`j`^`R`j`TY`kRf`Sj`_R
h`daRcTZ`dV_Z`céh`^`Zdk`R`Tj`TY
dR`^`UkZj`ZŽ

Ac`a`k`j`TjReR`f`VZcf`_`h`R`R[Vde`R
h`k`R`Z`Z`V`^`aVéV_TIZh` `SckRcRIY
h`Rcf`_`f`°Tj`TY`VW`ej`h`_`Cf`Z`[R`^`Cf`
cVRI[Z`aZ^f_éh`kV`dèRckj`^`Zj`f`U`^`Ž
:_`eVcacVef`°TeV`Xe`_`VkrXR`U_Z`Z`Rh`Rd
e`kRR`TV`e`h`RÝ`a`eckV`Sá`c`kh`ZR`Z
VjV`V`eRc`Vj`h`ZUkj`U`ej`Tk`°TM`a`Z^Z
aZj`áX`RI[Z`UZ`ej`L`Tkj`cVYRSZ`ZARI[Z`dÉS
dèRckj`TYŽ`HR[V`V[Vde`eR`¶V`c`kh`ZR`Z
h`cRj`[Z`^`CIZ`UZX` `dej`Tk`Vj`Z`f`^`Z[áel
_`CIZ`c`ka`k`Rh`R_Z`_Zá`^`°Tj`TY
dj`^`ae`^`éh`Ž`H`^`_`eV`CIZV`a`Uj`áj`TY
c`kh`Rj`Rè`_Z`kh`j`^`V`Zle`e`j`[Vde`^` `Uf`^`
dkédej`dZc`h`R_j`_R`ac`W`R`ej`á`h`j`a`l

RjV`Z`Zc`kh`ZR`Z`kUc`h`j`TY`_`Rh`j`^`eh
h`ac`TVdZ`aZ^Z`RU`dV_Z`cV`ssŽ

Ej`j`^`^`a]V`d`h`V`UkZ`R`Z`VUf`R
Tj`[V`h`Rcf`_`f`°VW`ej`h`_`Cf`h`Cf`ZRU
TkV`Z`f`dF`X`aZ^f`è`Tkj`TY`dZc`h`R_j`TY
U` `dÉS`dèRckj`TY` `cRk`h`kRSVkaZ`TkR
Z`ZTY`a`eckV`SŽ`Cè`¶``c`U`V`a`eckV`Sj
ZacRh` `U`ZY`kRca`^`[V`Z`a`U`cV`R
k`ec`d`°`Z`¶j`Tkj`Z`^`CIZ`_Z[VU`_`c`e`Z
h`dh`Z`_`Rf`TkR`Z` ;R`ARh`V`^`L`e`e`ej
h`j`a`h`ZRUR`°T`dZ` `j`f`UkZ`TY`dèRckj`TY
R`TV`e`h`R`ZTY`k`Rik`°T`c`j`á`h`¶j`TZ
c`UkZ`j`L`^`CIZ`°R`Zc`^`Vik`Vè`deh`R`ssŽ

?R`_RUIY`Uk`°TV`k`Z`j`h`_`Rckj`^`
^`cRj`f`L`h`j`_Z`Rj`°TV`k`_`RcRdeRj`°TVX`k[R
h`Z`AR`dèRckV`Z`dZ`da`^`Vik`Vè`deh`R`_R
j`¶j`dZ`ack`X`e`h`RÝ`ack`VUV`h`dkj`dèZ
a`U`h`kXj`áUV`eh`ckV`Z`ZkRa`Vh`_Z`Z
^`Ua`h`ZU`ZTY`h`Rcf`_`éh`¶j`TZ`d`S`^`
h`a`UVdk`j`^`h`Z`af`h`a`dèRIZ`kRa`Vh`l
_Z`Z`dkVc`^`Z`XR`j`f`dF`X`a`Z^f`è`l
Tkj`TY`ZaZj`áX`Rj`[j`TY`dacRh`h`R_j`TY
ackV`^`aVéV`e`j`TY`aZ^f_éh`Ž

DECODK4K6?:6

?Z`Zj`dkj`Rcej`f`^`ackV`UdeRh`Z`c`kh`Rl
¶R`Z`U`ej`Tk`°TV`a`dZUR`Z`^`Ua`h`ZU
_ZTY`^`^`aVéV_TIZackV`aZ^f`_R`d`Sj
dèRckVj`L`SV`^`f`°Tj`TY`[VX`h`j`^`dkeR
TV`ZL`acVj`da`kj`TjV`d`S`h`^`CIZ`h`V
^`cRk`U`Scj`dèR`kUc`h`Z`kRcèh`_`a`U
h`kXj`áUV`adj`TYZik`j`^`[R`Z`Wkj`Tk
j`^`Ž`F`h`Rcf``h`R`Z`eV`d`^`_Z`ik`V
U`^`Ua`h`ZUkZ`VX`L`dèRc`_VX`ZaV
_VX`ec`dZ`h`j`aV`Z`Z`^`S`h`Z`k`èh
kRh`U`h`j`TY`^`aZ^f`_R`Cf`ZRUik`TVX
f`dF`X`ZaZj`áX`Rj`[`^`^`aZ^f`è`TkV`ej`^`
SRcUkZj`L`¶V`h`h`j`Z`f`k[Rh`Z`AR`dèRckV

³³ O" Tquncumc"422: +0 Yurctekg"fic"rqociel e{ej"Rtqng"o"y{rcngpkw"w"qu>d|clowl e{ej"uk "ugpkqte"ok"l
Y<"T" Mqpkge|pc"óYq plcm"tgfl+."Fqtquéq "yqdge"iwctq ek"Qe/gmkycpkc"lTcfq ek"lF{ngocv{"*u"045;/46: +0
Rq|pc <"Y{fcypkev"q"Pcwmqy"g"WC"0

⁵⁶ O" Uvt|gngel"422: +0 Rqvt|gd{"qu>d"y"rqfgu|f{ o" ykgnw"y"pcwe|cpkw" Lcpc"Rc yfc"kk"l Y<"T" Mqpkge|pc"
óYq plcm"tgfl+."Fqtquéq "yqdge"iwctq ek"Qe/gmkycpkc"lTcfq ek"lF{ngocv{"*u"0397/3:7+0 Rq|pc <"Y{fcy/
plevy"q"Pcwmqy"g"WC"0



2CE:4=6D

_R dĀ da` ʷVlkVēdh R a`aje _R eVX
 c UkRf a` ^ T dēRjV h kcRdeRZ 5jReVX
 eMj \ ` _ZVtk_V dēRjV dĀ adkj X e` h R_Z
 `Ua` h ZU_ZM `Wēj VUf \Rj [Vj h \ZM
 cf _f Wē` h R_ZR `h` TkVd_V \Ruj
 `aZ\af_ēh `dēS h dēRckj ^ h Z\af L
 dWc` f^ h R_Z TVjēh \dkeR²TV_ZR `cRk
 `acRf h R_Z\kRdRU cV\cf eRjZ

DF>> 2CJ

4RcVXgVc T ^ aVēV TVVjUcVj

EYZl ReZjV acVdV_edT `dZUcReZ_dWc
 eYV a` dMdz `WēV VcĀVtēgV T ^ aV
 eV_Tvd `WēV TRcVXgVc `VR_ VjUvcj aVd
 d _LZ Tj fUZ X YZl Wf TRZ _LaVd` RjZj
 eRZed R_U X `U YVRjEYLS` eY ^ V_eRj R_U
 aYj dZjZēYVdV T _UZ`_d ReV_VIVdRcj
 WcRcĀ` _dSjMTRcVMj R_UT ^ acVYV_l
 dēgVTRcVe` aVcWc` eYVZ`ac` WcdZ_Rj ef l
 e`c ac` gLZ_X_f cZ`X dVcgZVd l h VjVcV
 VcāVZjRj R_dRcVdf je` VR_RXZ_Xa` af jRj
 eZ` eYVU^ R_UWcēYZjg aV` VRdZHR_TV
 Zl Xc` h Z_XZēYVcWcV_LZe Zl_VIVdRcj e`
 acVāRcVR_Ra`ac` acRēVcēRZ_X`aa` cef l
 _ZAdZ_eYVWc` ReZ `W`UVc` dV_Zc
 TRcVd `WēV VjUvcjLeYV Wc` f jReZ `W
 jRc_ZX`S[VtēgVdR_U eYVUVgV] a`V_e
 `Wf jVd` WcVtcf Z`V_eZ

33-:@8C27.2

3Rf ^ R_L<Z#!' /Z@d Sj h `cVdVae`l
 _Vj U c` d^ CEZjR` `VRcj _RUF`j jZ8Vc`_l
 e`j XZA`jdRLe` ^ "%L_c SEdZ" "*" #jZ

3Rf ^ R_L<Z#!' /Z@d Sj h `cVdVae`l
 _Vj U c` d^ CEZjR` `VRcj _RUF`j jZ8Vc`_l
 e`j XZA`jdRLe` ^ "%L_c SEdZ" "*" #jZ

3RSZclj \L3EDVc_R5ZicUZZ#! " #ZKR
 de`d h R_ZV`aZ\ZarjZej h_Vj f TY`cj TY
 h kRrh_R_d`h R_j^` dēRU^` eāaZ_ZZ
 8Vc`_e`j XZA`jdRLe` ^ #!L_c #LdZ`*†%jZ

4Y U` h dR > Z CVRjZRI[R cē] UkZRU
 \ēh h c` Uk_Z_RjY a`jdZY ecRj Tj [j TY
 Z h dāēTkVd_j TYZ Dec`_R :_ēvc`Vē`h R+

Yea-ēzh h h Zaf jSŽl Zjaf S#z77z3Rj` X l
 gr' zaUWU TzS#ZaUW

4Y ^ Tkj e`dR† > ZZk\Zh Zkd> Ž"***/Z
 C`UkZj/dh`L ^ ZUkj hZUK` R_Z`eZj°Z
 <cR\ēh+Hj URh_Zjēh` :^ af jdZ

4ZQR`L CL`-f dKj e`dR† 4ZQR`L ZŽ
 icUZZ#!"/ZKRc`UkR_Z`decVd` h acRj
 TjZ Ac` ^`TjR kUc`h RZ`?Rf`Z Da` ʷVlk_V
 Z> Vj Tj_RL_c) i#`/LdZ`##† "%jZ

5° Sc` h dZ<Zi"*) &ZKuc`h Z/acj TYZkl
 _VZH RckRh R+AH? Ž

8Rckj e`dR`L> L8ē`U` DL`cf CE> L=VcM
 h Zk ;L KRdRURi4Y`cRS 2ŽicUZZi#!"/Z
 Ac`XcR` ?Rf`TkR_ZZ`@aZ\af`_@d Sj dRd
 cVjZ HRckRh R+ > Z_ZēVcĀh` 6Uf \RjZ
 ?Rc`U`h VjZ

5f UVL > L > f cReL > L H dāRcTV` dēS
 dēRckj TY h A`jdIV† h j ScR_Vac`SjV` jZ
 Dec`_R :_ēvc`Vē`h R+ Yea-ēzh h h Zaf jSŽ
 dZjaf S#z77z3Rj` X gr' zaUWU TzS#ZaUW
 <Rh f jRLe`DZi"*(&ZzhZR` ^`Cē`hj TY`l
 hRh TkR` c`UkZēhZ` E cf e+ F_Zh VcVj eVē
 > Z` ʷRjR<`aVc`Z_RZ

<aUkZ cRl<`c_Rē`h dR`L <L 8ckR`_R†
 Ej`h ZēdR`L2ŽicUZZi#!"/Z@d Sj dēRckV
 h dā` ʷVlkVēdh ZV_ZWc` Rj [j ^ Ž8Vc`_l
 e`j XZA`jdRLe` ^ "%L_c #LdZ"!(i" "" Z
 <`aVēL 6Zi#!" SŽ KRxc` ʷ`_R X U`_Cē
 `dēS dēRckj TYZ lh +N ;Ž KZ`_j icUZZ
 HdāēTkVd Vkrxc` ʷV_ZR† Wc`j ZdfēAZ
 idZ` S!`*/ZdRj`h RH`jR+ReVUcRAVURX l
 XZ.Z<Re`jZV_ZZ

@XZēdR† 3f jZL? Ži#!' /ZDecVd kRh`l
 U`hj h kRh`URjY`df`Xcā` ʷVlk`j TYZ` cēl
 UR† \`_dMh V_TjV† kRa`SZXR_ZZH Rd
 cRrh R+5ZV_Z

C`dRj dR`L > Ž i#!') /Z HdāRcTV` UjR
 a` ^ RXRj° Tj TYZ` Ac`SjV` h j aRjV_ZR
 f`dēS kRj`f [° Tj TY dĀ dV_Z cR` ŽZlh +N
 CŽ<`_ZVlk`R`†H` "_R` icUZZL 5`c` d^ Cē
 h`SVT dRc` CēZ`TkVd`h R_ZZCRU CēZ`j jM
 ^ Rēj idZ`#S*1%#) /Zā`k`Rē+Hj URh_Zjēh`
 ?Rf`h VF2> Ž

