

GEORGE

ORWELL

1984



EIN UTOPISCHER ROMAN

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H; 7DG@635: FL;9

DA? 3@



6;3@3 H7D>39 LØD;5:

F[fWwWfWY[eZWAqY]`S`Sge)STW
@;@7F77@ 7;9: FKŽ8AGD
;`e6WfeUZWfWfSYW ha` =gdI SYWeW
G_ eLZSYha` : WfWf BafZad

ž3g SYW

3 ^WDWZfW hadIVSfW
7[I[YTWf]YfW[I WISge)STIW d6WfeUZS` V
5abkdYZf Tk6[S` SHWfSYLöd[UZ
Bd[`fW[` 9W_ S` k
9W_ fZWfWg` Y, 4d` `W` 6SWfW=9I 7[UZefff
;E4@ Ž Ž Ž



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7defW\FW^

7 =

7ei SdW | 'SdW | S'W\FSY [3bd1 g` V V\WGZdW
 dZ'gYW YWVWdWVZ I S'eI [`efa` E_ [fZi VSe=[` `
 S` V\Wd'gf YWdWf g_ W\ d'gZWI [Vlg WYVWV
 d'eLZ VgdZ V\W9 'SefodW W\ W'Wd: fgeWVW'H\UfackZ
 4'aUj e dZ'ob Wi W` SgUZ ` [UZf d'eLZ WYgY S'e VS-
 ` [UZf l'gYVZ_ [f [Z_ W\ I [dI WYdW\YW EFSgTe W\ Z
 YWd' YWi BdW

;_ 8'gdcaUZ W` SUZ YW\UZFW = aZ^g` V XgUZFW
 8g-_ SffWz3` W\ DöUj i S` Vi Sd W\ YdW\ SdI\YW
 B'S\ Sff VSe XdW\ W; ` Wd'g_ W\ Wf\UZ l'g Yd- i Sd
 _ [f DW` B'W S` W\ S` V\W\Yfz7eefWFWgdW
 dW\W9W\UZf ha` _ Wds'eW\ W ? W\ d'W\Wsd VSe
 9W\UZf W\ W? S` ` W'ha` W\ S X` Xg` Vh\W\ Y S-ZdW
 _ [f V\U W\ dZi Sd WELZ` Sgl Tsd'g` VS` ebdWZWWW
 i W SgUZ W\W\WLöWZi [`efa` Y\ YV\W\W\WZ\` SgX
 7eZSffW\W\WLi W\ W_ [f W\ 3gXgYlg hW\gUZWz
 EaYsdlg WYö` e\YefWf'g` W\W\WFSYX`] ffa` W\W
 W\` gdeW\W\g` VlgdLW\ i SdfSYöTW\W\W\fd'eLZ
 Efd_ STYW\Wz6Se YWzi d'W\g W\ i [d'eLZS 'UZW
 ? S-` SZ_ W W\ [` Had\W\W\g` YTW\ V\UZW : S-Z
 I aUZW6[W aZ` g` Y'SYe\W\W\FdW\W ZaUZi g` V\W\

`Wg` g` WdM-[YBZdYW [`efa` l WdōTWVW dMZF
8g-)` i UZWV[U W= d_ bXWd] `afW ZSffWY[Y eVd
S` YeS_ g` V dgZfWeUZ _ Vzd_ S'e g` fWl We Sgež3gX
VWV FdWbWSTeSf eSdFWZ` YWVōTWVW >[dZSUZf
VSeB'S] Sf _ [f WV dVWYV 9W[UZf S` ž7e YVzi dWl g
WV 4[V [eeWl V[Wa YW Sf e[V VS- W W V[W3gYW
ōTWS^Z[hWk^YWž%6W9da-WdgWdeVZf V[UZS` {
'SgfVWV[VUZ/SY VVWScg` fVZ

6d` `W[` Wll aZ` g` YhVSeWVW` S` Yra^VfL _ W
W VLSZ/WefSf[ef] ōTWV[VDaZVWbdaVg] flā` ž6[W
EfL _ W]S_ SgeW W[V] Y[UZW? V[S^bSfVW[VWV W
efg_ bXV Ebl[VWVZ` WVg` VdMZFW: S` V[` V[VW S` V
W] WSeW i SčI [`efa` VdMZFV S` W] W = `abXg` V
V[VefL _ W] gdMWSdG [`Wl Se V[eW] i W SgUZ Wl
I ad`Sgf` aUZlg hVfVZW T[VZ6 W]3bbScSf W eaVž
`S` fWfVW[eadaWl: i dVZUZ[d l] a` fVWV_b
i WMM VaUZYSTW] W W i Y[UZ] W [Z` hi ^[YSIl geVž
^WzE [fZfdSf` e8WefW V VSTYMMZdVWVdMZ[UZW
9WStH W W? SYW] W VgdZ WWT SgW Fd[[`YeS` lgY
WVBSdVg` [Xd_ `aUZTWā fi gdMZE W : SSdi SdeVd
ZM eW 9W[UZf g` `Sfod[UZ YW fW eW W Sgf dGZ
ha` WYchTW EMVWVW efg_ bXV DSe[W] ↑` YW g` V
Wl = βfVWV YWVōTWV S` WWWI [`fVZ

6[W W VdGg-W eSZ eWef VgdZ V[WVUZ'aeVW
8WefW] Sf SgežG` fW SgXWVefS-W [dVWV dZi SUZW
I [`Vefi -VfSgTg` VBSb[VWV W [`Eb[d`W ZaUZg` V
aTi aZ^V[Wa` `VefSZfVg` VWl: [_ W]gUZFW T Sg
i SčUZ[W VaUZS^W Sd] ad Sg- W W VōTWS^S` YWVUZ
fWBS] S Wž6Se9W[UZf _ [f WV dZi Sd WELZ` gdIl Sf

T[U fVha` \WdTVZdHZZWWW7U VZMg` fWZ7[` BS] Sf
] VVFS` WdG` _ [ffWISdYWWoTW[WWW: SgeXa` fz
%W9da-WdG`WdVf V[Z S` { Z[W SgUZ Z[VWVW
G` fWUZd` l g` V[VWg`] ^W3gYWTaZdW e[UZ fW
I [`efa` e4[U žG` fW[` EfdS-WZi ZWSfWfWV S` VdW
S` W W7U W W Yd[eeWwB[S] Sf g` dgZ[Y_ I [`Wg` V
^W` gdVSeI ad 7` Yeal TSVhWdW] fi TSVg` hWdW] f
WUZW Wz;` WdSW W[ff W : W] abWdli [eZWWW
6SUZd` ZMg` fW Tdg` _ fW W 3gYWT[U i [W W
ELZ_ W [Wg` VefqUZVS` ` [W W 4aYWi [WdSIZ
7ei SdV[WBa[l VefWV[VWW >WfW [` V[W8WefW
eZSgW6 [WefWV i SdW \WaUZ` [Uf eZ[_ _ žLg
XdzfW i Sd` gdV[W9WS`] Wba[l Vž

: [fW I [`efa` eDöU W eZi Sfi fW[WVef[_ _ W
SgeVW FWW[ead` aUZ[_ _ Wdha` DaZMewg` Vha` Wd
i W[öTWVSeYfW] fV[LWZ[` SgeVZWWW7dX`g` YW
`Wg` fW 6d[VSZdWbS` ež6WfWV[eadi SdYVUZi W[Y
7_ bS` Yežg` VEWWWdZ`Wdha` I [`efa` hWgdSUZW
9WdGeZi VseöTWV YS` l ^W8öefW Z[` SgeY` Y
i gdWdha` [Z_ dV[efWž3g-WW] a` fW [`efa` l
eaS` YWd[` W W ha` Wd? WS^bSffWTVZdHZZfW
E[UZfW T[Vd [UZf` gdYdZi d[ea` Wd SgUZ YWZ
i WdWž7e TWfS` V` Sföd[UZ] W W? i Y[UZ] W Xd f gž
efWd aT_ S` [W W YWWW 3gYWT[U YdSW
öTW SUZfi gdWd [Vá g` V` SUZi WZW EkefW V[W
9WS`] Wba[l W[eUZ[` W W Bd[hSfSbbSdSf W eZSfW
T[VW Wd? gf_ S-g` YöTWSeeWž7ei SdeaSd_ i Y[UZ
VS- \WdW I W WdS V[YöTW SUZfi gdW3gXS^W8^W
STW] a` fW[eUZi W eWd a^fW Wd W [` W W

3bbScf W eZSfWz? S` _g-fW VV3` `SZ_ WWW
~g` V_ S` eWV[UZ fSfeUZ[UZ [`ef`] f[hVScgXW ~I
VS- WWW9WgeZiVSe_ S` _SUZFM6TWZi df g` V Sg- W
[`W6g`] WZW WWWWVg` YTWISUZFWi gMW
I [`efa` dUZFWW ea W i VS- WVV FWW leadW
DöU W lgi S` VV6Sei Sde[UZW i W` SgUZi i [W
i aZ^i g-fWeaYsdW DöU W hWV[UZ eW] S` `ž
7[W=[^a_ WfWfW fSfWSeI SZdWfe [`efWg_ l
eW V3dTWfeffW gUZfYg` Vi W- öTWVWVöfW
>S` VeZS W badž6Se S^ea VSUZFW _ [f W W 3df
g` Wg[UZW 3TeUZVezi Sd>a` Va` lV[W SgbfSfW
>g eöflbg`] fe@ž# WIS_ Vdffabj eWTVi ^ W
Bdah[l Al W [Wež7dhWegUZfW` eW W=[`VZVfež
W `Wg` YW` SUZigXcdUZWl aT >a` Va` [_ W ea
SgeYVZW ZSffW: SffW VS [_ WV[WVS` YWDMZW
ZMg` fWV)a_ _ W SgeVZWWW: lgeV Sge W `W ž
lV fW <SZdg` WfYfS` WWWW? SgW _ [f4S` W
Yföflfi W W 8WeV_ [f BSbbWWW] WhWZSf g` V
W W 6BUZ _ [fI WfWZ YW] fi SdMi BzdW[ZdW
dZ[VW9SdW_ SgW] dWl g` VcgW [W W 4aW eSUž
fW1G` VV[WVWfa_ TFWdg[W i a W B SefWfSgT [`W
W >g i [dVWg` VG`] SgfWföbbSgXWfö _ W
i gUZFWVSlg V[WfWV i a 4a_ TWV eUZBYW W
Yd -WVöU W W eeW ZSffW g` V fdaef^aeW W g` YW
ha` : a1TSdU W W fS` W i SdM V[W [W öZ W B^W
SgeSZW13TWV XZdW g` [UZfel W] a` `fve[UZ` [UZ
W `W -ha` eW W=[`VZVZSffW [UZfe` SUZVVSfW
S`e W VDMZWYdW W 4[W aZ` W [`fWdg` Vi V[WZ_
lg_ Wf g` hW B V[UZi SdWž

6SeI SZdZMfe_ [[efW]g_ ~ ? [/i SZd i [W] [W
 @W]ebdSUZWWIS_ f[UZW EbdSUZWA] W [W] Z[W~ eSZ
 hW]rõ WVhWUZ[W]W ha` S^W S` W W Sge i Se W
 9W[UZ]e] dM]g_ S-fW/7ei SdW d[W]W]bkd_ [W]Sč
 f[Y] i W- eZ[_ W] W]4W]a` TSg] W]e]UZ fW]SeeWž
 Xd_ [YVd]Zg` W]f ? W]ZaUZ [V]W]g dM] fW]Ha`
 W]EFW]i a I [`efa` efS` V] a` fW S` YW]SW aUZ
 V]W` eZi` W > W]W] [e]W W W]V]8ca` fY] W]W]W
 Vd]M] SZ^ebd]UZWW]BSd]W]W] [W] ,

=D; 79 476 7GF 7F 8D; 76 7@

8D7;: 7;F ;EF E=>3H7D7;

G@I ;EE7@: 7;F ;EF EFÂD= 7

6SeI SZdZMfe_ [[efW]g_ WfZ[W] ea W] BZ^fW S`
 e]UZ [e]W W] bkd_ [W]Sd[Y]W 4Sg Vd]M]SgeW]D]g_ W
 g` V W] W]f]ebd]UZWW]LSZ^g` fW]W]7dM] ; ` YS` l
 >a` Va` YST W` gd` aUZ Vd]M]S` W]W]M]SgfW ha` BZ` [ž
 UZ W] 3geeW]W g` V 3ge_ S-žE]W]W]W]UZ]W] V]e]e]W
 g_ YW]W]W]EF]S]V]I[V ea ha^] a_ _ W] VS- _ S` ha_
 6SUZ W]H]Ufackž]a]U] eSgeS^W]h]W]Y]W]Z]I]W]Y]e]W]W
]a` fW]E]W] SdW W]E]f] W]h]W] ? [[efW]W]g` fW]W]W
 W]Y]W]S_ fV]W]W]g` Ye]bb]S]f]Sg]W]M]f]i Sd W]I SZč
 ZMfe_ [[efW]g_ d V]Se]UZ_ [f W] @SUZd]UZ]W]i W]W]
 W]8d]W]W]Y]W]S]fg` Y] W] 7d]W]Zg` Ye] W]W g` V W]
 eZi` W =õ` e]W]T]W]S-f]W]W]8d]W]W]e_ [[efW]g_ d V]Se
 V]W]d]W]e]S` YW]W]Z]W]W]T]W]S` W]W]W]W] ? [[efW]g_ e
 Xd>[W]W]Se9 W]W] g` V Ad` g` YSg]W]Z]W]Z]W]W] g` V
 W] ? [[efW]g_ e Xd]Ø]W] g-l V]e]V]W]D]S]f]a` [M]g` YW
 T]S]d]W]W]W] ; Z]W]@]S_ W [W] @W]ebd]SUZ]W]Sgf]W]W]
 ? [/i SZd ? [/b]s]l ? [/W] ? [/ g-ž

6Se? [[efw]g_ Xcd>[VWV SdVSeXgdZfVWVWVefW
 ha` S`Wz7eZSffVTVZSgbf] W V8WeVWZ [`efa` i Sd
 `aUZ` [W_ ? [[efw]g_ Xcd>[VWVWVWVg` V[Z_ SgUZ
 ` [VWVWV gdSgXV WZSTW=[`a_ VWV` SZVW]a_ _ Wz
 7ei Sdg` _ i Y[UZ] VgSg-WV]` S_ f[UZW 3g dYlgTVWZ
 fW]g` VSgUZVS` _ g-fW S` VefVgdZVW W; dMSdW
 ha` EFSUZWdSZfhVZSgWg` VhVefV] fW? SeUZ[WYVZ
 i Vzd VVW Z[VgdZzEaYsdV]Wg WW 4VWV]Yg` YW[_
 HadVW VZ[` Sg õZdWWW Efc-Wi SdWVgdZ Yad`SZ
 YV[UZf]YW SLZW[` eZi SdWG` [Xd_ WYV[UZW]V]W
 _ [f dZi VWV9g_ _ [] `öbbW TW/S` Wi SdWz

I [`efa` VdVfV[UZ_ [f W] W DgU] g_ ž7dZSffVW]W
 dgZ]Wabf_ [ef dZW? [WVWgXVW] fi V]WgdEUZSg]g
 fdYW dfeS_ i Sdi W` _ S` WV FVW]eadVSe9V[UZf
 lg] VZV7dY` YcgV]VgdZel[_ _ W]` V]W [l]YV`õZV/
 ;` WV W]lg V]VWFSYV] W]SgeVW ? [[efw]g_ i WYVZ
 YS` YWi SdZSffW]SgXeW ? [f]SYVWV [`WV=S` f]` W
 hV] [UZV]S` V]VW]Vei g-fVW]VS- W]` WV=õUZW[UZfe
 lg V]WYSTSg-W]V] W] EfõU] ELZi Sd Tdaf VSeXcdW
 `BZefWFSY]g_ 8cbZefõU] SgXVZaTWi VWVW_ g-fV/
 7d` SZ_ SgeVW DWS^W] V8`SeUZW_ [f W] W]Sd]`aeW
 8õee]Y] V]V]V]V] eLZ_ gU] `aeWi W]W 7f]] W]` SUZ
 H]Ufadž9[` i Sč6Se9V]B] efd_ fVW] W]SW]i [YV
 9V]gUZSgd i [WZ[` V]eLZV]D]V]eLZ` SbeZ] [`efa` Ya-
 e]UZ Xef W] V]VW]SeVha`^VSha` W]]efW]V]eLZ SgXVW
 lg V] SdFVW]ELZaU] W] g` Vefõd fVW]i [W]V] V]ae]e
 ? W]l [`Z]` g` fVZ

EaXcd [V]Xew 9V[UZf] dV]edaf S` l g` VVSeI SeeV]
 fd]f [Z_ [`V]V]3gYWž6SeLW]YeLZ_ W] fV] [VES`bVW]Z

d3gdMg` V_ S` ZSffWVW : Wg` fWUZ^gU WVSe9W6Z1
W`e_ [f Ww 9g_ _] `öbbWöTWVW : [fW] abXlg
TWa_ _ Wž7[` W 3gYWT^U] eb fWZi dFWWaUZ VSe
4dW W[` eW W ? SYWSgXg` VV[W WTW S` ` daeW
Sgd geVWZ7dl aYV W V[YSdMVSgeV W W 1W] ` [ffWV
B3U] UZW _ [f W3gXZd H[UfackZ]/YSdMVM VaUZ
g` had[UZfYV W VZ[W W eVW] dMZh i adSgXWVFSIS]
ZVSeSgXW 8g-TaW dVWVZ? [f W] BZefWZSffW
W_ Wzd9`öU ž7dY[` Y[` eI aZ` I[_ W]l gđU] g` V
eW fWUZS` W `^] eha_ FWW eadeVWVWF[eUZWž
6S` ` laYVSeWV[eUZgT^SWV W 8WVZSfW V W
F[` fW SeUZVg` V W V[U] W g` TWUZdVWV6[Sdg_
[` CgSdXd Sf _ [f dafW DöU] W g` V_ Sd_ adVW
7[` TS` V W W ZW hadž

3ge[dWV W 9dg` W SdWVFWV ead[` eW W
I aZ` I[_ W S` W Wg` YW i Z` ^UZWEFVW S` W VUZfz
Esf i [WöT^UZ S` W] öd W W I S` V ha` i a Sge W
VWYS` I W D Sg_ TVWUZfZBfM SdW S` W >ß Yež
i S` VYWöTWV 8WefW V W VSeWž3` eW W W
EMVW S` V eUZ V[W ^W W e[eZM` W W [` efa` W f
eS- g` V V[W W] gf^UZ TW 4Sg W W aZ` g` YXdW
4öUZW V S^TW [_ f YW W i SđI W W e[eZ ea [`
V[W e[eZ W V fWg` V had[UZfY [: [fWdg` V Z[W
] a` fW [` efa` hi W [Ye fWeh[eg W Sg- W D M ZI V W W
F W eade T V W Wž7d] a` ` fW i Sd Y W i dI STW ea S` YW
W [` eW W fWg` Y h W Sd fW [UZf Y W W i W Wž6[W
g` YW i Z` ^UZW 3` SYW W L[_ W e i Sd l g_ F W X d
W W 9 W S`] W h W S` fi ad^UZ l g W e W H W [d ^UZg` Y
W W f eUZdfz

6aUZ SgUZ VSe6 [Sdg_ l VSe WleavWw Sge WdEuzgTz
 'SWZW hadW aYW ZSffW i Sd_ [f VSd' eUZg^Vz7ei Sd
 W YS` l TWa` Wle eUZi` W6 [Sdg_ žEW _ [UZi W W
 BSb[W eUZa` W i W|Y hW|Th i Sdha` W W|C gS^Z
 fB i [W|W|W i W|YefWe h[W| [Y <SZdW` [UZf _ WZd
 ZW|W|W i adW i Sč7dZSffWWaUZ 9dg` Vlg Wd
 3` `SZ_ WVS- VSe4gUZ` aUZ i W|BfW i Sč7dZSffWW
 [W|3geSYW| W_ g YW] ^W W 3fi SdWYUZB e
 [W|W W|7WWh[W|W|W|EFSV/ i WZW H[W|W
 ZBffW|W|f` [UZf _ WZdeSYW]i` `Wfi^W W YWZ
 g` Vi SdeaXdf ha` W| TdW` WWW I g` eUZ TW|W
 i adW| W|lg TW|fl WzHa` BSdW| [fY|W|W i gdW
 W| SdW|VS- eW [UZf [YW i Z ^UZW >BW W|] Sg W
 /%WUZB VSGXW W XW W ? Sd|f _ SUZFW{ i [W|W
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 W YZSfW W W YST hWUZ|WWW6 [YMi [WUZgZz
 TB W|aW|DSeW| ^ YMi V|W_ S` eUZg` _ i Y^UZ SgX
 S` W|W W|eW|UZS W]a` `fw7dZSffW W W d eUZW
 4^U| V|W|e fS- WZ|` SgZg` V Z|` g` fW|W adW| VS` `
 i SdW|Z|` W YWUZ` ob g` V ZSffWSe 4gUZ Xdli W
 6a^SdX` X|Y W|fS` Wz6S_ S'e ZSffW|Z_ ` aUZ |W
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 eW W|? SbbWZ W|W|SYWžEW|ef g` TWUZd|WW i Sd
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@g` i Sd W|_ 4WdX W FSYWgUZ S` lg^W Wz
 6Sei Sd` [UZf [^WS^ [UZfei Sd[^WS^ VS W|S] W W
 9W|W W| WZd YSTh STW|S^e W WZWSge] S_ li Sd W|ea
 Ygf i [W|UZW| VS- W_ [f W|W FaW|W|lg_ [W|f
 X` Xg` Mi S` l|Y <SZdW Li S` YeSd|W|feSYW|WZ` W|

i VWW i ödVZI [`efa` eVW fVWV WEFSZ^XVWV [VV
: S^fVg` V XWUZVWV[W_ [f VVdLg` YMS` ž6 [V8VWV
i Sd W` hade [`fXgf [UZV;` efdg_ Wfl VSe eVWef lg
G` fVWUZd W` gd` aLZ eVW hVW VVW/i gdVWg` V
WZSfVW[UZ ZWV [UZ g` V_ [f W [VWELZ [VWY] VV W W
TWadfi YS` l W XUZ Sge VV 9VWZ^ZVWVge VS- VSe
i g` VVha^VW`SfVWVb[VVW hVW[VWV_ [f W VdUZ[VW
8VWVTVUZd[VWV eSff_ [f W W F [fVWVWTVdfl W
lgi VVWžFSfeBZ [UZ i SdW` [UZf_ VVdVW i Z` fl_ [f
VW: S` Vlg eLZd[VWž3TYWVZW ha` YS` l]gdW
@af [W i SdW` oT [UZ S^W [VV EbdVZ eLZd[VWVlg
V] f[VWV STV VSei Sd` Sföd [UZ [V[VW 8S^g` _ i Ž
[UZž7dfSgUZVW[V8VWV [VVW [fVg` VefaU fW aLZ
W VEWg` Wž7 [ELZSgV i Sd [Z_ öTVVW DöU W
YVSGXVž6 VV VefV8VWVef [UZ öTVV VSe BSb [V i Sd
V[VWVefZVWVWV S` Vg` Yž;`] VV W g` TVZa^XVW
4gUZefSTW eLZd[VW V &ž3bd^#*&

7dVZ fVW[UZlgdU ž7 [9VWZ^hi ^[VW: [^ aeY] VV
ZSfVW[UZ eV WTV BZV [YžLg` BZef W_ S^i SdVW[UZ
VgdZSge` [UZf eLZV VS- VVf i [d [UZ VSe <SZd#*&
i Sž7e_g-fVg_ V[VWVWZVg_ eV lVW` Vli g-fW
_ [f W [VW9W [-ZV VS- VVWef` Wg` g` WdV [-Y-SZdW
Sf i Sd g` VVWYSgTVW#&&aVW#& YVadVlg eV ž
6aLZ ZVflgfSYW SdW` [V i Y [UZ W 6Sfg_ SgXW
aVW i W<SZdVWVSGlg TVf [_ Wž

8ödi W XSYVW[UZ b i fl [UZ VVWV[VWVFSWVgUZ
S` 18ödV[VWlg] g` l XdV[W_a_ WWWžEW 6W] W
]dVfVW V 3gYWT [U g_ Vseli VVWVS V6Sfg_ SgX
VWVefVWVg` VbS^fVWS` ` BZ_ [f VV I ad Li [Vž

YMS` / VgeWd@WgdSUZWgeS_ _ WzLg_ WfW_ S^
]S_ [Z_ V[V0d - WeW W HadZSTWeIlg_ 4Wg-feW ž
I [W]a` fW_ S` e[UZ_ [fWdLg]g` hWff3 V[YW16Se
i Sd[ZdW@Sfgd` SUZ g` _ i Y[UZž7` fi Wd[SZ` WWW[W
Lg]g` Wd9Wmi Sd[V S` ` i ödW_ S` [Z_ ` [UZ9Wd
dLZW]Wi a^W- aWd[W SdS` Wd YSdW VS` ` i Sd
eW W6SdWg` YTWdWg` Ye'aež

7[` WLWf`S` YeS- Wd VS g` V efSdWfi d[Uzf SgXVSe
BSb[Wd6 WfVWd[eadZSffWd f dZ_ WfWd W? [fBdž
_ ge] S` Yd[_ _ fž7ei SdeWes_ l VS- W` [UZf` gdV[W
9STWdW? [fVWg` YhWadW ea` Wd eaYsdhWdWdWlg
ZSTWdZ[Wi SeWdgdcb` Y[UZ ZSffWdSYWi a^WZEWf
I aUZW ZSffWdWd[UZ SgXV[WdW 3gYWT[U] had[VWdWd
g` Wd i Sd[Z_ ` [W] WdE]` Y]a_ _ Wd VS- VSlg` aUZ
Wd SeS` WdW i f[YeW] j i` ` fVSe? gž6 [W@[WdWdZd
S'e eaUZWZSffWdWdXd` WUZf YWZSfWZ4dSgUZFWdVaUZ
` [UZfei WdWd gfg` lS'eV[WdW^aeWZSef[YWdWdWdWdZž
UZWg BSb[Wd]g Td` YWd V[WZ_ TgUZefBT[UZ eWf -SzdW
VgdZ WW = abXYWdZaeWd SdWž;` V[WdW 3gYWT[U]
WdUZi SdeaYsdVSeWdWdWdUZhdWfg_ _ fž3g- WdW
ZSffWdSe7]lW_ S` eW W = d_ bSWd g` Wd dY[UZlg
gU]WS` YMS` YWž7di SYW [UZf VSd` lg] dWd WdW
VS` ` Wd öd` WdWdWd[UZ_ _ Wd6 [WdWg` WWhWd[UZWž
@[UZfeVd` Y[` eW 4Wg-feW S'eV[Wg` TWdZdWWW
I W-WdWd had[Z_ [VWWW4'SffWd VSd: SgfgU]WödWd
eW W = ` iUZWV[WdZ_ WfWd W? ge] g` VW WdWdW
4WWWZVd[VWdW9[` hWdgdSUZf ZSffWd

B i fl [UZ TWS` ` WödWdWföd flg eUZdWdWd aZ` WdWdZf
lgi [eWd i SeWd]g BSb[Wd]dSUZVdWdWd Wd Wd Wd V[UZW

: S` VeUZd` TWWJ fVLWVg` LWWW4SfVW i aTWW
TSVSGXWYda-W3` X` YeTgUZefSTWg` Vlg` ELZ`g-
eaYsdSgXW` fVbg`] f[a` hW [UZVW

%&3bd/^#* &9VW 3TWW [=|^ aZ>SgVW
=dVé ^ V7[eVZdYgfW öTWW ELZ| ha` 8`öUZİ
↑ WY VSe[dWVi a_ ? [ffW WWTa_ TScMWF i [dVž
LgeZSgWZi UZefTWgefYf VgdZ W W3gXSZ_ Wha`
W W Yda-WVUW? S` `I W W W : W] abfVhVW Yf
lgWf eSZ_ S` [Z e[UZ VgdZeI SeeWİ B1Wi [WV
@[bXW VS` ` eSZ_ S` [Z` VgdZ VSeL[VW dZd
W: gTeZdSgTW V S` ` i Sd WYS` l VgdZ i UZVf
g` V VSe? Wdg` Vg_ [Z` XdIFWé[UZ daeS| g` V W
hV S`] ea b i fl [UZi S` e eV S eI SeeV VgdZ V W i UZVf
W YWdg` WZ LgeZSgW Tcb` fW had` SUZW S` e W
g` fVW` Y6S` ` eSZ_ S` W DMfg` YeTaa f ha` ^] [W
_ [f W W ZgTeZdSgTW V S b TW W W Sg_ [ff` V W
3` V W h[VW UZf W WöV` l eS- _ [f W W W S VdV
VZdMS` fW] ` STW [TgYž= V W W g` W Tcb` f W had
S` Yef` g` V hV S d e W W] abX i [eZW W W Tcb` f W S` e
i a` f V W W S` l [e[VZ[W] dVZWg` V V W Sg` V W
V V S d Vg_ [Z` g` V f d e V W W Z` žaTi aZ` e V W V e f
Sg- W e[UZ had S` Yef i Sd TWWJ f W e[VZ` ea Ygf i [W
_ i Y[UZ S` e Y Sg T f W e[VZ d M S d W i` ` f W V W g W
ha` [Z_ S T Z S` f W V S` ` i S d X W Z g T e Z d S g T W W W
S` Ž] [aŽTa_ TWi [eZW e V a Z d W [UZ V S g [f l W g` V
V S e Y S` l V a Z [l W b [ff V W W [V f d V Z Z i 1 W V S` ` Y S T
W W W g` W h a` V S g X S Z_ Wha` W W] [W S d
W W Z a U Z i Z a U Z g` V [_ W Z i Z W Z] ` Sg [V f [V W
g` W Z g T e Z d S g T W _ [f W W] S_ W S had [W W

/S`IW_ g- [Z_ `SUZYWaYW eW g` V WYST h[W
 TMS^Sge WWbScFWaYWSTWV WSGg` fWi a V[W
 bch`Wefl W `Ybifl [UZS` dVSg l g_ SUZW g` V
 l g eUZdMW_ S` Zbffa i Se [UZf had] [` Wf l VYW
 ea^W W eW [UZf dWZf had] [` Wf Tle V[Wba l W eW
 Zl` Sgei SdX[UZ YSgTW [UZf VS- [Zd Wf Se bSeqWfW
 `[WS` V]õ_ Wf eUZ VScg_ i Se V[Wbch`W eSYW
 fkb[eUZWbch`W dS] f[a` eW]i` `W` [W-}

I [` efa` Zi dWl g eUZdMW SgX SgUZ i W W W W
 ELZdM] d_ bXIVMS_ ž7di g-fW [UZfi Se [Z` hMS` S-f
 ZSffWV[WV8gf ha` 9WfS_ _ WSge eUZ ZW Sge d eUZ W Ž
 Wf ž3TW VSe_ W] i öd [YW Sd VS- [Z_ VSTW W W
 ha^efb` V]YW7d` `Wg` Yea Wgf [UZ l g_ 4Wg-feW
 YW a_ _ W i Sd VS- W [Z_ Xef ea had] S_ l S'e ZSTW W
 eW [W W W UZ d W W ž@g` W] S` fW W VS- V[W d S` W W
 HadS^S` eW W bifl [UZW 7 feUZ g- eUZ g` Vi Sd` SUZ
 : SgeW g YZW g` VZW fV eW FSYW gUZ l g TW [` Wž

6 [W W HadS^S` ZSffV eUZ ZW fW adW [? [` eW W g_
 l g YW eSYW i W _ S` ha` Wf Se ea @W W S W õTW Ž
 ZSgf eSYW] a` `fW VS- W e [UZ l g YW eSYW ZSfz

7ei Sd]gd had W X g` V [` W W DW [ef d W SIF W g` Yf
 [` W W [` efa` SdIV W W ZSffW_ S` V[W e fõZ` WSge WW
 9W W eUZS edfg_ W YW a` f g` V eW [` W W ? [ffW W W
 ESS` W W Yd- W F W W [ead Y W W õTW Sg X W W W [` Had Ž
 TW W g` YSg X [W Li W Ž ? [` g f W Ž S- Ž E W W g` Yl [` efa`
 `SZ_ YW eSYW W B Sfl [` W W W W ? [ffW W ZW W l
 S`eli W B W ea` W l V[W W ha_ E W W] S` `fW_ [f W W W
 W STW ` aUZ ` [W W I ad Y W W Z e W ZSffW g` W Sd W
 [` W W D Sg_ fd S W ž 6 [W W W S ha` i Sd W ? B U Z W

WV Wa SgXW9B YWTVW Wi Sc7d] S` fWZdW
@S_ W` [UZf i g-fWSTW VS- e[W` Wf3TFWg` YXd
BaeS> [fWfsgdTWZB [Yfi ScHMI gf[UZ~ WW WZSfW
e[W S` LZ_ S^ [fi hWUZ_ [WfW: B WWg` V_ [fWVW
ELZdSgTWelZoeWVWVZW~ ZSfWdWadVW VVWZ [eZW
8g`]f[a` S` WfWfWfDa_ S` eZdM_ SeZ[` WZElVW Sd
Wf g` fWf VZ_ g` Yegef[YSgeWVWVW? BUZWha` Wf S
e[VWg` Vi S` l[Y-SZdM_ [fobb]YW eZi Sd W: SSd
ea_ Wfbdae[YW 9W[UZf g` V dSeLZWl_ ge] g`f eW
4WVWg` YWz7[` WfLZ_ S`WdLZSdSUZdafWELZBbWVSe
3TIWZVWVWgYVW]YS YWVEMgS]fBfi Sd_ Wzd S'e
g_ V[WfS[~WZdWfD[[` YeS` lgWfWVWg` Wf YWfSW
WY YWgY g_ V[VDg` Vg` Y[ZdM: o W ZWfhad gZVZ
TWZl [` efa` ZSfWdWfa_ S`WfWfW 3gYWT[U S`
` [UZf SgeefVZW]i` ` Wz7di g-fVgUZi WZSfZ7ei Sd
i WW Wf3f_ abZBdWfa` : aU WbSfH]SfW 4SWW
9W Wf eZS ei S` WfVg` Yg` VS`YV Wf Wf9Wf [` g` YeZ
föUZf]Y Wf_ [fWfWdVdUZl gg_ YWVi g-fV6 [V8SgWf
g` VhadS`W V[Wg` YWf YSIW [_ WfV[Wf]` V WfVZ
TWWBSdVMS` ZB YWf V[WVWS`] W^aeW@SUZb/SbbWfW
V[WfWf [^YW Ebf]f WSTH_ [f WfW: [XV S` i W[YWf
>[[WfdVWgZadLZW]a` ` fW3TfWfWVW? BUZW [_
TWa` WfW_ SUZfWZ_ WW7[` VgU]YWZd[UZWS`eV[W
_ WfWf]g eW z7[` _ S1S`eeVgXW 9S` YS` Wf S` Wf
hadVWfNa_ Wi SdM ZSfWdWZ_ [f WfW EMWfWT[U
YWf dW] f Wf[Z` lg VgdZTaZdW eZ[Wg` V Wf[Z` Xd
Wf W 3gYWT[U _ [f T'S`] W 7 feWf W Wf6`f ZSfWf
;Z_ i SdeaYsd Wf9WS`] WfgdZ WW =abXYWS` YWf
e[W]i` ` fWVW V3YWf]` Wf9WS`] Wba`l] WfWf]i Se

XMM[UZ eVZdg` i SZdUZW 1UZ i SdzFdafl WW X6ZfVWV
i VVWZ[l eaa eVW eVW V@BZW_S lVW W Vdi ödM[YW
G` e[UZVZVW V[W g YVUZW FVWV _ [f 3` Yef g` V _ [f
8W VeUZS YW [eZfi Sdz

6[VW` VVWVWVea` i SdW ? S` ` `S_ WeA14dW W
? [fY1WVWV, ` `WVBSdVWg` V;` ZSTVWV W eai [UZfYW
g` VVW13 ^YW W ZVW WfcbU fW BaefWd VS- I [efa`
`gdW Vg` Wgf [UZW HacfWg` YVSha` ZSffV7[]gd W
9WöefW VgdLZ[VWVWg_ V[VeföZ`WZVWg_ efVZWWW
9dgbVMS`ee[VWV dZi Sd W FdS[[`YeS` lgYW W? [fZ
Y[VWeVW; ` `WVBSdVWZVW`]a_ _ WeSZZA14dWi Sd
W Yda-W YdaTeUZ/BZf[YW? S` ` _ [f V[U W @SU W
g` V W W VVWV Zg_ acha^W g` V TdgfS`W 9W[UZfZ
G` YWUZVW eW W e gUZf[YW Âg-WW `SY W YW [eeV
5ZSd_ W` eW V13dfl e[UZ lg TWVWVZ7dZSffVWV W
? S` [V eW W4d^VWgXWV@SeW gdUZfI gcbU W V[W
eWeS_ Wfi S` `WV g` V SgXW W V di ödM[YW V eW
l[h[1eVWfi [d fV7ei SdW V@VWV[WV W i W ödTWZ
ZSgbf` aUZ W S` V[eaUZW 4VWd W YWSUZf ZBfVMS`
W W 7WV S` ` SgeWV SUZfI VZ fW <SZdZg` Wf ZBfW
WV ` WV]i ` `W V W eW W 9VWVöTW V[VELZ` gbZ
fSIS] eVaeVMS` TafZl [efa` ZSffVA14dW h[VWVUZf W
6gfl W W? S^ [W S VVW eah[VW <SZdW YWVZVZ7d
X6ZfV e[UZ SgXUZf[Y]g [Z_ Z[YMaYW g` VVSe` [UZf
`gdi W[Z` VV9VWVesfl li [eLZWA14dWeZi [UZW
? S` [WV g` VeW W BdmEaj Wfkbge XWVW7eTWgZVW
h[VW VZdSgXW W ZV [UZ YWVWV 9`SgTW ~ aVW
h[VWVUZf `gdWV: a `g` Y ~l VS- A14dWeba1f[eLZV
EfdWYYBgtI[Y Wf ` [UZf ha^] a_ _ W eVZ 7fi Se [eVZ

` W 9 WUZf i-fwg`i [WefVZ^UZ V[W 9 WS`] W
W žG` V VaUZ eS` V [V[W 9 WUZf WYWF^UZ i Wž
YW_ S` YW WefdWY^BGT^Y Wf S`e W XSUZ ;` fw^YWI
YWZd^WVž<WWW^e eSZ W i [WV ? WeUZ Sgd _ [f
WV _ S` dWW]a` `fM W _ S` W^X^Y^T^S^Z^M^W
F^W^e^a^d^W^ ELZ [bbUZW]g eUZ^SYW]g` V[Z` S^W^ l g
X^e^W^T^M^S_ ži [`efa` ZSffW [WWW YW^ YefW H^M^g^LZ
YW^SUZf eW^ W^H^M^ gfg` Y SgX[ZdWD[UZf^Y] Wf Z[` l g
bc^X^V, bc^] f[eUZ YST W SgUZ] W W? i Y^UZ] Wf VSl gž
A14dWi SdM` V[W 3gYWT^U] W W 4^U] SgX^W W
3d TS` VgZd eSZ^VS- W^S^f^W^G^Z^d^i^ Sd g` V^T^W^Z^a-
a WISd [` W^3^T^W^g` YDW[e^f^S^f^g^d^l^g^T^M^W^T^e^V^W
Li Wž [`gfWž S-žEWg` Ylg 7` W W Sč7deW fveUZ
SgX^W^W^f^g^Z^ [` W^W^W^D^M^Z^W [W [`efa` lli W^B^f^l^W
ha` [Z_ W^X^f^fž7[` W^W^V^S^e^L^Z^a` W^S^g^l^V^W^ W^I
3^T^W^g` Y` W^W^I [`efa` T^W^Z^B [Yfi SdeS- li [eUZW
[Z` W Š 6Se? B^M^Z^W _ [f W^V^ eZi Sd W : SSdeS-
g` _ [ffWISdVSZ]^ fWž

;_ ` BZefW 3gYWT^U] T^S^Z^W eUZW-[UZM] ` [dž
eZWW^l=d^eUZ^Sgf^S^ea^T^W^V^W^W^V^? S^e^L^Z^ [W i ^Y
g` YW/f ^W^S^g^e^ W^V^ Yda-W F^W^e^a^d^S_ 7` W^W^W^
D^S^g_ W^Z^W^h^a^č^7^e^i^ Sd W >βd l T^W^V^W^ W^W^W^W^W
9β eV^S^g^f^ō^T^W^V^g` V eUZ V[W@SU] WZSSd^W^f^B^T^W^ž
6[W S-žEWg` YZSffW^W^a` ` Wž

I [W^W^i^Z` ^UZ^i^ Sd^V^S^e^9^W^UZf;_ _ S` g^W^9^a^V^e^W^ d
W^H^a^] e^W^V^e^l^S^g^X^W^ E^W^e^UZ[d_ W^UZ[W^W^ž^6^S^g` V
Vad [LgeUZSg^W^S^g_ i gd^W^W^M^e^UZ^fž6[W ^W^V^S^e^L^Z
T^a` W^S^g^e^f[W^W^ S^g^e^g^d^Z^f^g` V^3^T^e^UZ^W^ YW [eZ^W
Cg[W^W^Z^W^h^a^č^9^a^V^e^W^ i Sd W^D^W^W^S^H^ W^V^Y^da-W

3Tfcb` ` [YWWXZbZW]_ S1had'S` YWLV/i [WS` YW
LVWVWYWF[Uzi SdVScS` W]` `WVWUZ` [W'S` V_ Wzd
YWSgf W W W W X Z d W W ? B` ` W W W B S c F W Y W W W
i Sd g` V Xef Sg X W W Efg X W_ [f W W 9da-W 4dg W W
e W e f Y a S` W W Z S f W g_ V S` ` _ [f] a` f W W a` g f a` B d W
? S U Z W e U Z S W l g T W [` W l g_ F a W W W g d W f l g i W Z
W W g` V S g X Y W W W_ ` [e a` W W e W g h W W Z i [` W W z 6 [W
B d Y S _ _ W W W L i W Z [` g f W Z S - Z E W W g` Y i W Z e W W
h a` F S Y l g F S Y S T W W Y S T] W W W [` W W ` [U Z f 9 a` V e W W
V [W S g b f c a` W W W b [W Z B f W 7 d i S d W W W W W H M H F W
W W X b Z W F W W W U Z_ g f l W W W D W Z W F W W B S d V Z 3` ^ W
d b f W Y W W V [W B S F W W W U Z F W W H M I d W Z W i S` ^ W W H Z
f W W W I E S T a f S Y S] f W = W W W W W 3 T i W U Z g` Y W Y [` Y W
g` _ [f f W I S d S g X e W W d W Z d W l g c b U z ; d W W i a` W W W
W` a U Z g` V e L Z_ [W W W e W W D B] W h [W W U Z f [d W W i a
W e W e W W ? W W W g` f W W W E L Z g f l e W W S g e b V e L Z W
9 W W W W h [W W U Z f e a Y S d ~ i [W W W W W f [U Z Y W g`] W
i g d W W [` W W W H M F W W [` A l W S` [W e W e z

I [` e f a` e L i W U Z X W l a Y e [U Z l g e S _ _ W z @ [W a` ` f W
W W V S e 9 W U Z f 9 a` V e W W e e W W a Z` W` W W W e L Z_ W Z
^ [U Z W I [W e f d W W W 9 W Z W g Y W S f W z 7 e i S d W
_ S Y W W o v [e L Z W 9 W U Z f _ [f W W T d W W i [d W = c` l
i W W W : S S d W g` V W W W L [W W T B d U Z W ~ W] ` g Y W
g` V V a L Z [d W W i [W W W W f o _ ^ [U Z h W W U Z f ^ [U Z W 9 W U Z f
W e W ` S` Y W o` ` W @ S e M S g X W W W 7` W W W W d ` W e S - l
W W W B d e W [W W 4 i V Z W W S g d g e f c S Z W e L Z [W z 7 e b Z` W W
W W W E L Z S X e W W U Z f g` V S g U Z V [W e f] _ _ W Z S f f W W i S e
E L Z S X e _ B - [W z 9 a` V e W W ^ [W e W W o T [U Z W Y [[Y W
3` Y d Y W W V [W W Z d W W W B S c F W h a_ E F S b W ~ W W W e a

ōTWf dVWWWg` VhVdZFW3` Yd IVS- [Z` W = [V
ZffWgdLZeZSgW]i` ` Wlg` VValZ YWBSWZ[dMZW
YSgTZS I g_ W W_ [f W W S`Sd [MWWW 9WZ`lg
W6^W VS- S` W W? WeLZM V[W W[W W hW hW δ` [Y
i SdW S'e_ S` eWef eLZ VSgdZ h[W W Zf hW Z dW
'SeeW]i` ` fWz7deLZ_ BZFWW9da-W4gW W] SYFW[W
6 [] fsfgdW BScFW S` I X d W F W a X d [Y W 8d W W e L Z`g-
_ [f 7g Se W f d f X d D W Z B d W Z H M S _ _ `g` YeZ`g` V
9WS`] W X M Z W F W I d Z d W Z k e W e L Z I V [W D W a`g f a`
e W h W B S F W i a d W ~ g` V S ^ W W S e [` W W W o T W f o d f W I
h [W W T] Y W 3 ` e b d S U Z W W [W W W W B d f B S d a V [W W W o T] L Z W
E f [` e W W B S d F W d W W i S d g` V e a Y S d W [Y W I a d F W W d
@ W e b d S U Z W W f Z [W, b d S] f e L Z _ W d @ W e b d S U Z I a d W
S`e [d W W W W B S d F W [f Y T W ` a d S W I W e W _ i [d T L Z W
> W W S` Y W W W W Z I f W Z G` V V [W S` I W W W _ S d L Z I W F W I
X d W W 8 S ^ I VS- _ S` ` a L Z [_ Y W I` Y e F W L i W W W e W
] i` ` f W i S e e L Z [` I S Z d W F Z I` f W I 9 a` V e F W e i [W W I Z
L Z W B Z d e W W d e L Z W W h W I S d M Z I` f W I e W W W = a b X S g X
W W E L Z [d _ W e F W W [e a d e V [W W W ` a e W = a ` a` ` W W W
W g d e L Z W 3 d _ W W a d I W ~ W W ` a e W D M Z W] d B [Y S g e e W Z
Z W W W ? B ` W _ [f S g e V g U] e ` a e W S e [S f e L Z W 9 W L Z F W I
V [W S` V [W A T W I B U Z W W W E W Z e L Z [d _ e Z W S` T d` W W W
g` V i [W W I W I a e e W I g _ h a` S` W W W Y W S g Y W L Z W I
S T Y W e f l g i W W W z 6 W e f g d W Z k f Z _ [d L Z W ? S d L Z f d f f
W W I E a` V S f W e f [W W W I [W W W [W 9 W B g e L Z] g [e e W h a` W W
9 a` V e F W e T i] W W W E f [_ W e L Z S T Z a T z

7ZWW[W S-ahSf[a` VdM-[YEW]g` WW YWSgWfZSffW
TbSUZW ha` WW >[bbW Wd: B^XWWW[_ DSg_ hWZ
eS_ _ WFW? WeLZW g` TVZMhLZFW gfeLZdM^6Se

eWeflgXlWWWELZSXeVW[Uzf SgXWV EVZdZ[d_ g` V
V[VWELZdM] WWW gUZf WfVSZ[` fWlhadlWV[VZWWW
WgEeLUZw3d_ Wf SdWVW XSLlgh[VWsg-WWV i WJ fW
Wf3` T[U] aWfSgUZ` gdWf9WS`]Vf 9aVefW dZa`
Sgfa_ Sf[eUZ 3` Yef g` VLad ž

7di SdWV VSgWZS WfV: S-aTWfS'e7gdeW aWf
AefSeMWW i W AlW [W_ [fW VVWV? BZfV_
=dV'SY eaTVS VWeLUZYWiZ` UZ_ [fWfS` WfV_
8d[WWWelgeS` Vž6Se_ W] i öd[YWSTWli SdVS- 9aVž
efW'e7[` g-li W` WfSgUZha` WfV_ S` ` YZS-fg` V
hWfSUZfWf gdWf W SgUZfSYfBY[UZg` VfSgeWV_ S'S_
FSYSgXDW WfdTö` WfVgdZWWfWfWf[ead[` L[Wf'g` YWf
[` 4öZWf eWfW Vd[WfWfS_ _ flWb öU flBUZW[UZ
YW SUZf Wf3` ^YW W ZMfS'eWfS_ _ Wfha^Vg` e[` l
WfVfW SdMhad3gYW YZS'fWi gdWV VS- fchfl S^Vž
WV V[Wf7[` g-` [Vfllg` VZ_ WeLU[Wž_ _ WfV [WfV
i SdWVW` VgVAbXfVSgXha` [Z_ hWfVZdflgi WfWž
@[WfWf] YWf FSfS` WV` [UZ` SUZ eWfWI Vg` YW
ffl[YWfb[a` Vg` VESTafVgdWfha` WfV9WS`]Wba[l W
Wf'Schf i gdWž7di SdWf4VWZ'eZSTWfW Vfyda-W
ELZSffWž3d_ WfW Vg` fWfVg` VžHfWUZi i dWf WfV
VSeLUZ Wf Efgd WfDW[Vg` Ylg_ L[WfWfVfV6Wf
@S_ WfWfAdS` [ef[a` eWf%/[WfVWfWZS {f ea Z[W
Wž3gUZ öefWfV_ S` ha` Wf W dZdM UZw 4gUZ
Wf WfLgeS_ _ WfSeeg` YS^Wf; dVZdM WfWfHfWfSefWf
9aVefW i Sdg` VVSeZV_ UZ VSg` VVadl[d] g[VfVf
7ei SdW 4gUZ aZ Wf[fVž6 [WfWfVfVebSUZw VSha` l
i W ödTWZSgbl W XSLZS'eha` WfW 4gUZ[ž3TWf_ S`
i g-fWfha` WfV6[` YW` gdVgdZhfSYWfVfWfWfWf WfV

%6/[McbWdZS {`aUZ %Se4gUZ} i gdMM W` WeLUZ
hWU VWV ^Wl ha` W W YWi Z` ^LUZ WBSdWU [fY^W
WU BZ` fz

;` Wdli VWV? [`gfVWVWVWVLUZ V W S-ahsf]a` lgd
DSeWVz6 [W` WeLUZ Wbd` YW ha` [ZdWEfl W SgXg` V
dZdW_ [f ha^W EfL_ _ SgX S` Vlg_ V Wg_ I SZ` Z
d` `fdMWWW^i] efL_ _ W W V SgeW W F W W [ead] S_ Hlg
oTWfi` Wz6 [W` W V SdZT`a` W Sdgi SdL_ 9W LUZf daf
S` Y SgX M g` V [Zd? g` Vi` `W Wg` VeLUZ`a- eLUZi [M W
W W S` >S` V Y W ad W W 8 [eLUZ EaY SdA14d W e Yd- W
9W LUZfi SdY W f W z7deS- eLUZ d Y W S W Sg X W LUZ W Sg X
e W W EfgZ1 e W W B U Z f [W W d g e f Z a T g` VeW] f W eLUZ
S` e f W_ W W eLUZ W W 3` b d` ^ W W W l a Y W W Y W W z6 Se
Vg`] W S S d Y W? B U Z W Z [` f W W l [` efa` Z S f f W S` Y W S` Z
Y W % L Z i W` E L Z i W` E L Z i W` { Z [` S g e l g e Z d W W g` V
W W d b i f l ^ L U Z W e L Z i W W l i d f W l g U Z W W @ W g e b d S U Z W
g` V e L Z ^ g W W W W W W W W E W Z e L Z [d_ z 7 e f d S X 9 a ^ Z
e f W e @ S e W g` V b d` ^ f W h a` [Z_ S T- V [W e f L_ _ W d W W W
g` W W l f f ^ L U Z i W W z;` W W W ^ L U Z W 3 g Y W T [U] W S b b f W
e L U Z I [` efa` h i [W W l [f W W S` W W W e L Z d V g` V f d_ b W W
6 S e E L Z d M ^ L U Z W S` W W l i W z [` g f W z S- z E W W g` Y i S d
` [L U Z i V S- _ S` Y M g` Y W i g d W W [f l g_ S U Z M e a` W W
L_ 9 W W W W W V S- W g` _ i Y ^ L U Z i S d e L U Z [Z d W W l [d g` Y
l g W W l [W W z 7 [` W e L Z d M ^ L U Z W 7] e f S e W W W 3` Y e f g` V W W
D S U Z e g U Z f i V S e H M S` Y W l g f i f W l g X f W l i 9 W LUZ f W
_ [f W W W H a d L U Z / S Y Z S_ _ W W l g l W f c b_ _ W l e L U Z [W W W
Y S l W W W S_ _ ^ g` Y i [W W W W W f d e L Z W W f e d a_ l g V g d Z Z
g f W e a V S- _ S` Y W W e W W W l [^ W [` W W W 9 d_ S e W
e L Z W W W W W e L Z d W W W W H M S U f W W W l S` W W i g d W W

G` VValZi SdWdLad i WW_ S` WbS` V W VSTefS] fW
 l [WaeWVWg` Y V [W [WdWELZV W W W4`WV`SfW Vha`
 W W 9VWefS` VSgXWS` WdWYd [UZfM WdW] a` ` fW
 Eai SdXdW W 3gYWT`U] Wd: S- I [` efa` eVgdZSge
 ` [UZfYWW9a`VeW Yd [UZfW ea` Wd [9VWVWYWW
 W 9da-W 4dgWd YWW V [VBSdFWg` V V [V9 WS`] WZ
 ba` [l VZG` V [` eaUZW 3gYWT`U] W dZi a`^eW : Wd
 oTWXdW W eS_ W hWdUZfW W 3Tfb` ` [YWSgXW
 E W dZ [d_ i V [W W W l [YWHW W Z f W ha` I SZdZ W g` V
 H W g` [` W W W W W d > oY W Z G` V ValZ X Z f W W d [UZ
 [` BZefW 3gYWT`U] i [W W W e_ [f W W [Z` g_ W Z
 T W W ? W d Z W g` VS` W W Z S g b f g` Y W o T W 9 a` V e W
 d Z [W W [Z_ i SZd; ` eaUZW 3gYWT`U] W h W S` W W W
 d [Z e W W W W V B T W g` Y W W W W 9 da- W 4 dg W d [`
 H W W Z g` Y g` V W W 9 da- W 4 dg W d e Z [W V S l g e f W W S` e
 W g` T W V Y [U Z W X g d Z f a e W 4 W Z o f W W W d [U Z i [W W
 S W W Y W W V [V S` T d` W W W S e [S f e d Z W : a d W e f W _ f W
 i B Z d W 9 a` V e W [Z_ f d a f e W W H W W e S_ g` Y e W W
 : [^ a e [Y] W g` V W d L i W W V W e [U Z S` W d Z a` S` e W
 f S f e Z [U Z W H a d Z S` W e W] ` o b W i [W W g` Z M h a` W
 4 W d W h a d] S_ i W W W W Y [U Z V g d Z V [W ? S U Z f e W W
 E f [_ W W W Y T d S U Z f W W [V 8 g` VS_ W f W W d L [h [` e S f a`
 l g l W f i d W z

;` _ S` UZW 3gYWT`U] W i Sd W eaYsd_ i Y [UZ
 eW W : S- VgdZ W W I [^ WeS] f VS a W W V a d Z [`
 l g ` W] W z E a Y W S` Y W I [` efa` b i f l [UZ] VgdZ W W
 Z W [Y B ` e f d W Y g` Y B Z ` [UZ W d _ [f W d _ S` [` W W
 3` b f d g_ e W W = a b X r a _ = [e W ` a e d W f l e W W : S-
 h a` W W 9 W [U Z f S g X W W E W d Z [d_ S g X V S e Z]` f W [Z _

efi WWWg` | WSSdYW? BZWLlg oTWf dSYWz>WZS W
 TWbUj WWWHacdfWg` YWZgeUzFW [Z_ VgdZ WWe] ` ž
 7di ödWéW_ [f W W 9g_ _ [] ` öbbWlg FaWbcbŽ
 YWleWsu]fS` W W BXS^Tl` WWg` VeW_ [f BXXW
 VgdZi UZM l YWZ W W ZM[YW EWSef]S` ž7di ödW
 e[W H M W S f] Y W g ` V [Zd] 3gYWT^U] W W Zi UZefW
 >gef V[W W W WgdZeZ` W W Wz6 Wf^ [U W S e l ghadi Sd
 W e [U SgUZ TWg-fl i Sdg_ W e [WZS-fW 7dZS-fW e W
 i W e [Wg` Y ZöTeUZg` V Y W U Z W Z fe^aei Sdi W W W_ [f
 [Zd]` e 4 W f Y W W i a^f W g` V V S d S ge ` [W W Sei W W W
 i öd W W W g_ [Zd W W W W W W W e S_ W F S^ W W W W W
 lgdG_ Sd_g` Y Sg Xg X d W W d Z [W i S` V e [U ` gd V [W
 h W Z W f W e U Z S d S U Z d a f W E U Z B b W W S e S g X W W W W E k_ Ta^
 W W = W e U Z Z W f z

6[W S-i W W W W W W Z F W Z d W : i Z W g`] f z 9 a^ V e W e
 E f [_ W S d f S f e U Z [U Z l g W W 4 i] W Y W a d W W g` V
 W W 3 g Y W T^ U] ` S` Y h W S` W W e [U e W 9 W e [U z f [`
 V S e W W e [U Z S X e 6 S` ` T W W W W W S e E U Z S X e W e [U z f [`
 V [W 9 W f S f W W W g d S e [U Z W E a V S f W o T W f W d W e Y
 g` V X g d Z f T S d_ [f d S f W W W ? S e Z l` W b [e f a V S g X W W
 4 W g U Z W l g l g e U Z d W W g` V S g e W W S B U Z W W W E W Z e Z [d_ e
 Z W S g e l g e b d` Y W e U Z [W i e a V S- _ S` U Z W W W l g e U Z S g W
 [` W W W W W W W W W S g X Z d W E f l W l g d U j b d S^f W z 3 T W
 [Y W U Z W 3 g Y W T^ U] h i B Z d W W W W ? g` W W W f [W W
 E W X W W W 7 d W U Z W g` Y W f X Z d l W E U Z_ a 1 V [W W V [Z
 U Z W 9 W f S f [` V S e 9 W e [U z f W e 9 d a - W 4 d g W e_ [f e W W
 V g`] W: S S d W g` V e W W E U Z g d H S d f V S e? S U Z f g` V
 Y W W W ` [d a^ W D g Z W S g e e f d S Z f V g` V_ [f e W W d W e Y W
 9 d - W S e f W W Y S` l W E W Z e U Z [d_ S g e X^f W @ [W S` V

hVfS` M i Se VV9da-W4dgVVeSYV7ei SdW`gdW
bSSdI adVWV7d_gf[Yg`YI adVM [M]V_ =S_b fd_
V VV ELZ`SUZf SgeVfa-W i VVV ` [UZf _ V] I W W
g` fV ELZVWISd V[VSTVW] XUZ VSVgdZI VS- e[V]SgeVZ
ebdUZWi VVV V[V]ghV[U]f i [VVZVfVW]z6S`
I VV ` Vse9V[U]f VV9da-W4dgVVe [VV]g` VefSf
eV V[V]ELZ[VW] [] `SdW Yda-W 4gUZefSTW V[V]dV
BSdV] SZ`ebcbUZV

=D; 79 476 7GF 7F 8D; 76 7@

8D7;: 7;F ;EF E=>3H7D7;

G@I ;EE7@: 7;F ;EF EFAD= 7

3TVVSe9V[U]f VV9da-W4dgVVe dZ[V]eUZ`aUZ
V [YV]g` VWSgXWV EVZdZ[d_ lg TVZSgbfW] eaS'e
e[V]V7[V]gU] I W W SgXWV@V]ZSgfS^V]LgeUZSgV
ZV hadV[V]SUZf ZSffVM g ^VZS l g_ eaY[V]Z l g hV]i Ž
dUZVz6 [V] ^V V Sg ZSffV[U]Z õTVV[V]V VV had
[ZdeV[V]WV EfgZV` SUZ had VVW adVZ? [f V] V
TVVVW 8õefV] VSei [V% V] DVV{] S` Y Td[V]V
e[V]V[V]3d_ WVV EVZdZ[d_ WfVWVz6S` TSdY e[V]
[Zd9V[U]f [VV: ß VVzA We[U]f^UZ ebcSUZ e[V]V
9VVz

<V] f ef_ _ fW S^VHMS_ _ VVW V] W] dS ha^W
`S` YeS_ W g` V dZkZ_ [eUZW EbdVUZadS` , %9~4` Š
9~4` Š 9~4` { ~i [VV]g` V_ _ V]i [VV]dZd`S` YeS_ I
_ [f V] V]S` YVBSgeWi [eUZW VV V]fW 9 g` VVV
li V]W 4 ~ [V] V] X[V]UZV] _ gd_ W VV] eV]S_
g` YV]õ_ i [d] WVVFa] l ea VS- _ S` S'e4V]V]g` YVSe
EFS_ bXV ` SU] fV]8õ-Vg` V VSe Vg_ bXV6 d Z' W ha`
FS_ fS_ e]lg Zi dW YSg]fV]H[V]V[U]f VdV-[YEV]g` VV

'S YXZdW e[WS_ [f Xdfz7ei SdW DWS[l WW _ S'
a [3gYWT[U] W oTWi Bf[YWWW 7dWg` Y Zi dW
Lg_ Fw`i SdWwW W3d: k ` WsgXV[W VezW g` V
? SWff W9da-W 4gWwH_ WdSTW aUZW 3]fWw
EWefZk` aeWw STeUZf[UZW oTWi ` W Ww4Wg-fZ
eW e VgdZ Vse? [ffWdZkfZ_ [eZW >Bd_ eZi [` efa`
XZfWw W-BfW` eW W 7[YWVWwZi BzdW Ww
Li WZ [` gfWZ S-ZEWg` Y]a` fWw [UZf g_ Z[l
YVWZS`e Ww S`YW W W 6Wdg_ S` ZW l gS`W
STW V[Ww g` _ WeUZ[UZWE` YeS` Y%9~4` S` 9~4 {
S` Ww`fWZ` [_ W_ [f 3TeUZWZ`@Sfod[UZ efS` V W
Ww oTdYW` [UZ` SUZ- W SeS` Ww i Bdg` _ i Y[UZ
YW WwZEW W9WZ Wg hWUZ Ww l eW 9W[UZ l g
TW WUZW l gfg` li Se Ww fS Waf eZa` Ww; ef`] fz
3TW WYSTW WLVfbS` ` Ww` W [YWEWg` Ww [Ww
[Z` Ww 3geVdgU eW W 3gYW [TWW] [UZW Ww
ZffW WbFW]i` ` WzG` VYWSg [V Ww 3gYWT[U]
Ww Ww eUZ Vse 4Ww fe_ W- i W` W eUZ i [d [UZ
Ww Ww

7d ` Y oZf[Y A14dWe 4[U] SgX A14dW i SdSgX
YwS` WwZ 7dZSffWw W4d`WSTYwa_ _ W g` Vi Sd
YwSW_ 4Wd l eW [Ww [feW WUZSd] fWef[eZW
9W WsgXgeW Wz3TW VSi [eZW `SY Ww 4gUZfW
W WEWg` Ww BzdW Ww eUZ [ZdW gYW TW Ww
g` V [V Ww i [l [W LV fSg_ i g-fW [` efa` ~ S
W i g-fW ~ l VS- A14dW Vse Y WUZWSUZfW [WwZ
7[Wg` _ [-hWfb V[UZWafeZS i Sdli [eZW [Z W
SgeW SgeUZfi adWz7ei Sd S`e ZffW [Zd W Ww 6W]Z
i Ww eUZ SgX Ws` g` VS` efd_ fW VgdZ [Zd W gYW

V[V9WS`]W ha` VW W[W[` VWS` VWV oTWE%bZ
ZSfVW_ [f V[d] eZ[W A14dW l g [Z_ l g eSYWz%bZ
i W- YWSgl i Se [` V[dhadVfz;UZ]W` VWV WWS` l W
HMSUfg` Y VW W: S-l VW W 3T dZVz3T WZST] W W
3` Yef [UZ eVZVSgXW V WEMW ~ 6S` ` i SdVW4[fl
Ww 7[` hWf3 V [eeV WaeUZWl g` V A14dWe 9WUZf
i SdVWwa g` VgdLZVd` Y[UZ i [VWSeS`WIS` VWVz

6Sei SdS`W YWVWV g` V Wli SdeZa` ` [UZf_ Vzd
e[UZWl aT We[UZ i [d] [UZ l gYfSYW ZSffV6 WSc[YW
Li [eLZWV`WZSffW` [VWV W8adfeVl g` YzE[VZ[VW
`WY[UZ VW9`SgTW~ aVWV[W a `g` Y~ [` [Z_ `VWVz
V[Y VS- Wsg-W[Z_ ` aUZS` VWVSW VWVBSdVWSTz
H[VWVUZf i SdW V[V9WbLZfWha` Yda-W G` fVYdg` VZ
hVUZi idg` YW VaUZ i SZd~ h[VWVUZf V[e[VWV6/W
4cbVWUZS { i [d] [UZ Fcbfl W[VW`aeWHVZS g` YW
9Wf3 V [eeVg` V: [` dUZfg` YW] a` ` fW_ S` ` [W[UZW
eW l VS- %6/[WcbVWUZS { ` [UZf `WY[UZ W V WSYWz
ZS Wd ` Vg` Yi Sz3` _ S` UZWFSYWYSgIFWVWSc` l
S` S` VWV` [UZfz7e YST] W W YdW SdW 4WVWd` gd
oUZf[YW3` Wf g` YWl V[WS`W aWVl [UZfe TWVgW
] a` ` fW, 4dgUZefoU VWVSGeLZfW9 WbdJZMhVl [eLZW
3gXUZd WS` 3Tadi B VW~ aVWV_ S1i W li W
8dVg` W[eLZ fdXVl W W] `W W4WVg` YWV: B VW
V[VW V HMF3 VYg` Yd VUZW BZ` [UZ eSZz3` Wli Sd
`gdW W? gf_ S-g` Y, eVZdi SZdUZW [UZ ZSffVWl e[UZ
VSeS`W` gdW YW[VWz7di SdS` eW W 3dVWfcbSfl
l gcbU] YMS` YWl aZ` WA14dW ` aLZ W_ S`S` l geVWz
6W9WS`]W[ZdW] gd W8oZ`g` Y SZ_ W V[W] l g hWz
X`YWli Sd[Z_]Sg_ VgdLZ WVE[` ` YMS` YWz7ei BdW

g` hadfWTSdYKZd[UZ YW VWW eWefi W` WYWG-f
ZBfVM [WVSe_ SUZW ea^fV7[VaWVli VEMg` VW
'S' YZSffW e[VW] Wli VWWf[YW 4^U] YMSgeUz~ g` V
VS_ [f ELZ'g-ž3TW eaYSd VSe i SdW VW]i ödV[WV
3gYWT^U] [` VVSTYVZ^aeWW 7[eS_]Vf [` VV
_ S' lg VVW YM g` YWi Sč

I [` efa` dSbbVVeUZ ZaUZ g` V eV fVeUZ YVSW7d
_ g-fVb^beWž6W9[` dg_ adW` eW V W ? SYWž

EW 4^U] dUZfVVeUZ i [WV]SgXVSe 4'Sffž 7d Wfž
WV] fMS- Vli BZdWVW] Z[^ aeW 9dTW VSYVWV
YVZI V^YSgfa_ Sf[eZi VVWVUZdVWVZSffVg` Vli Sd
i SdW` [UZf_ VZdV[VYVUZVW] d_ b W S` VeUzd
ha` hadZ[žEW VSWVli SdTWVZI [` Yf öTWVSe YSffW
BSb[VWYW^ffW g` VZSffW` Ych-V] 'SdV4^aU] eUZd
Z[` YW Sf,

@; 76 7D ? ; F 6 7? 9DAEE7@ 4DG 6 7D

@; 76 7D ? ; F 6 7? 9DAEE7@ 4DG 6 7D

@; 76 7D ? ; F 6 7? 9DAEE7@ 4DG 6 7D

[_ Wli [WV] Sef öTWV VZS^TVEVWVZ[` i Wž

G` i [^] öd[UZ VgdZi gU] fWZ` W` XgdZfTSdWfUZdMž
] Wž6Sei Sd[_ 9dg` Wli dUZf WV VSe@[WV]UZd[VW
YVSWV[VWV] adW Sd` [UZf YKZd[UZV]S^e VVWVfW
ELZdff W] FSWVgUZS` lg^VW- g` VVaUZ XZ^fWV[eUZ
W] W 3gYWT^U] 'S' YhVegUZf V[VV]UZdVWVWEMVW
ZMSgd gM- W g` VV[VV]S` I VESUZV]SgXgYVWž

7dfs fW` WaUZ` [UZf i V^Wli g-fMS- Vli W] ^ae
i SčAT W] ` [WV]_ [f W] 9ch- W 4dgWVZ[` eUZdW
aVW` [UZf_ SUZfW] W] W G` fVUZ[VžAT W]_ [f W]

FSYWgUZXdXZdaWf [UZf_ SUZVWVWG` fWUZ[Vz
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W eZ'a-ž9WS` / WhWtdUZW` S` ` fW eVWž9WS` Ž
/ WhWtdUZW] a` ` fW_ S` SgXVW6SgW [UZf YWV
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'S Y eZ'SgW [] WöYW SUZMSTWXBZNaWWebfW
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; _ _ W i Sd W` SUZfe ~ V[WHWZSXg` YW X` VW
g` STB` W[VUZ` SUZfe eSffž 6 Se b^i fl ^UZW aUZSZZ
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ELZg'fWbSU fW[VW>[UZf V[VW V[WBgYW TWŽ
W W W = dJe ZSdW9W[UZfWg_ VSe 4Wfž;` W
öTWfSYWWW ? Wd SZ^ W83^WS` V] W W9W[UZfež
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i gdWW [UZfW VS- _ S` \W S'e YWVf ZSffWi gdW
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7ei Sd8Sg BSca` d |V8Sg W@SUZISd SgXWV
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X^YfWZdVgdZ WW9S` YzEa^UZWV|WZ|S V|YM|g` X|UZŽ
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VSe^WSef^W[_ W^WW^WW: gef^WW^W S^W^TW^W[Z^W Sge^Wf e^WW^W8d^Wg
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%^Wad^WUZ^Wi W^W Fa^W_ VSZ^WW^W i B^Wd^WM^W öd^WW^WW^W[^W @g
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BS^Wda` ei SdI [^Wefa` e=a^WW^W_ I SZd^WW^Wfe^W [^W [ef^WW^W
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ha` W^Wfi S` W^WW^W6g^W_ Z^WW^W W^W = ^afi ha^Wfi dUZ^WW^W
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` [W^W S^We^W W^W W^W8d^WSY^We^WW^WW^Wg` Vha` W^WW^W~ _ W^Wdea^WY^WSd
` aUZ^WS^Weha` W^W9^WW^WS`]W^Wba^W[^W W^W~ W^W4^WW^WS` V^WW^WBS^Wd^WW^W
STZ^W[^W Yž? [f^W X^W X^Wg` Wd^WW^W[Y^W-SZ^Wd^WW^Wi Sd^WW^WW^Wf] öd^W ↑UZ^W
e^WZd^Wg` W^W Sge^WW^Wg^WY^WW^W↑YS^WSge^WW^WUZ^W[W^WW^Wg` V^WW^WW^W
[^W V^WW^Wg^WY^WW^W↑YS^WSg^WW^WU^Wfi Sd^WZ^WS^Wf^WW^WW^WX^W[^WY^WW^Wd^WSUZ^W
W^W -SZ^Wd^WōTW^WSee^WS^Wg` Yé^WW^Wβ- X^Wf^WY^WW^Wf^Wv^W3^Wf^WW^WZ^W[^W Sge
TW^WW^WE^Wb^WZ^WW^Wlg^Wh^WW^WW^WW^Wž;_ ? [^W [ef^WW^Wg^W i gd^WW^WW^W
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B^WX^WW^W W^WW^Wd^WS^Wg^WUZ^Wi i^W ↑UZ^WW^WW^Wf^Wa^WU^Wf^WW^WVS- W^W[^W W^W
W^Wf^WW^Wh^W[W^W-SZ^Wd^W W^WW^W3^WTW^W[^W 9^WW^WW^We^WZ^WS^W e^WZ^WS^Wge
W^WUZ^W[W^WW^We^WW^Wž7^W[^W Vgd^WZ^WVd^W Y^WW^WW^WUZ^Wi W^W-Y^WW^Wg^WUZ^WX^WY^WW

[Z_ i [VW g` XW [^YWLWY [eXdMVW` YWdVYZW
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hVefab ZSffV7dcm [YVWV W B WYa Ygf W] a` fW
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 Xd>VgVWTVdV-[Y` SZMg` ad_ S1 had[ZdV WWWW
 =[` W 3` Yeflg ZSIWzG` VVSe_ [fYgW 9g` V WW
 W[VW Y] Sg_ W W aUZM` W [UZf[` W[VfL W W
 4[VUZf eS` Vi [WV` SgeLZWW] W W 3` YWV~ %o[` Ž
 WZW` SgfWV[VW i Z` [UZ YWd SgUZVWVWUZ` g` Y
 ~ W W a_bca_ [ff[VWVWV W] g` Y_ [fS` YW d g` V
 eW W fW T[VWV9WS`] Wba` l V[S` YWVf ZSffV

6 W VgdZ VSe 9 W Za- W ELZ`g W hVgd SUZfW
 ELZ_ W i SdhW S` YWzI [` efa` Yd] g` W f eZ` aeeW
 lg_ 8 W W ZS fW g` VXSYV[UZi aT[Z_ i aZ` aUZ W Se
 XdeW FSYWgUZ W S^W i ödW B i fi [UZ VSUZFW
 ha` ` W W S` A14dWz

Had-SZdW~i [WS` YW SdVZV 7e_ g-fWade[VW
 <SZdW YW V W eW ~ ZSffW V W d g_ fi W YW V WgdZ
 W efaU Vg`] W L_ _ WzG` V W S` V W e W [UZ ha`
 [Z_ eS-l ZSffWS` e W hadT W S_ l YW SY, %o [di a^W
 g` ei [W W V W i a] W W 6g`] W V W Z W HUZf 7d
 eSYWSe YS` l dgZ[Y Sef` W W T W ~ S` e W W W f e W

g` Y | W 4WZ7di Sdi VVWS` YWl aZ` WefVW
lgTVMWz6SeeWES_ W Sd VS- VS_ S`d [FdSg_ lVW
I adfW W W Yd-W 7[` VdgU SgX[Z` YW SUZf ZSffWz
7df dbfWg` VS^_ BZ[UZ ZSffW e[VS` eLZW WW W W
4WVfg` YS` YWa_ _ Wz7d] a` fW[UZ Wf` [UZf_ Wd
Wf` `Wf l aT W hadaWf` SUZ WW FdSg_ i Sd VS- Wf
A14dW lg_ WefW_ S^ YWZW ZSffWea i W[Yi [Wf
eLU WfeS` `li S` ` Wf g_ WfW_ S^ WVE[_ VS`eV[W
A14dWe [Wf] l [Wf ZSffW WWS^ei SdWXd[Z` Wf
V[Wf[_ WA14dWzA14dW ZSffVSge Wf6g`] WZWf
lg [Z_ YWbdLWz

I [`efa` ZSffW [WWSg ZMSge `WW]i` `W~ SgLU
`SUZ WW öUZf[YW li Wf[YW 4[U] ha` ZWfW adZ
YW]a` fWf WfW ` [UZf eLUW eW ~l aT A14dW
W 8dVg` VaWfW 8W Vi SŁ3TWVSe eL[W ` [UZf
W_ S`h[WSgdg_ SUZWzLi [eLW [Z` W ZWfUZWfW
7[` hWfB` V [d VSei [UZf[Wf SdS`e Lg` Wf g` YaWf
BSdVf gYz dY] Wz%o [di a`W g` ei [WfVZW i a
] W V6g`] WZWZWfUZRf ZSffW WWSYfz [`efa` i g-fW
` [UZf i SeV Selg TWfW ZSffWea` Wf `gd VS- WefLU
SgX[dWWW W VefTW SZdZWfWi ödWf

6 [Wf[_ VSge WW FWW lead TdSUZ Stz 7[` 8S` SŁ
dWefa- eLZ WfWfW `Sdg` VeLzi` VgdLZ V[Wf`^Wg ž
6 [Wf[_ WzZdSeLZ g` V] dBUZ WW Xdf,

%BUZfg` Y 3UZfg` Y EaWW [ef W Wfa` Wf WWg` Y
ha` Wf? S`STSŁca` f W Yfha WzG` eWfWf] dB W
[` EöVZ` V[W ZSIW W W YB l WWW E[W WfUZWz
;UZ T[` lg Wf6gdZeSYWW BZf[Yf VS- V[W] dWfZ
eLZ WabWf[a` l ha` Wf [dY WZ TWfUZWfWi WfVSe

= dVWVWVW VWMZWISd@BZWbUj VVöd V7eXfYf
VWf VWEa` VWL VWg` Y~{ž

6Se TWVgVW` [UZfe 9gfVW VSUZFWI [` efa` žG` V
fSfe3UZ[VUZi` SUZ W WIT'gfd` e[YW ELZ[VWg` Y VWI
ha^ef3 V[YWHW [UZfg` YW VWVgSeLZW 3d VWTW
VWdVWYLSZ`W ha` FafW g` V9VW` YWW YWS` ` f
i gdWV | S_ V[V3`]ö` V[Yg` Y VS- ST` 3UZefWV aLZW
V[WELZa] a`SWWf[a` ha` VdV-[Y SgXI i S` l[Y 9d_ _
ZMSTYVWV fi VWW ea^fV

I [` efa` _ g-fWaUZ W _ S^SgXfa-Wž6[W [d] g` Y
VW 9[` e hVWöUZf[YWELZ g` V [W W 9VWZ^ VWI
7dUZ`S g` YlgdU ž6WFWW[eadef[_ fW- h[VWUZf
g_ WVE[WlgXWV laVWSTWg_ V[Wd` ` Wg` YS` V[W
ELZa] a`SWW] öd g` YlgöTWi` W~ V[WELZ_ VWV VW
= B` YW`a` %lW [M_ W >S` VXd6[UZ_ [f: W g` V
: S` V S` žHa_ LgZi dW i gdWVW SdVW VS- WVSTW
efd_ _ W Sfg` YS` `SZ_ ž3TWIS` eVW W VWV W[YW
B`Sf i SdI [` efa` ` [UZf eUZfISž

6[W k_ ` W gdWVa` VUZVWV? ge] STYWefZI [` Ž
efa` fdSfS` e8WefW [fVW DöU] Wlg_ FVW[eadž6W
FSYi Sd` aLZ [_ W] Sfg` V] `Sž; dWV a[` VW8W W
Vjb^a[VWVW VDS] VWTa_ TW_ [f Vg_ bXV i [Wž
ZS^WWW 6d Z` WžLgdLVf VW i i UZWf^UZ W S
li S` l[YT[e VdV-[YEFöU SgX>a` Va` ž

6dg` fW SgXWV EfdS-W] `SbbfVWVW I [` V VSe lWž
dVWVWV`S] Sf Z[` g` V ZW g` V VSe I adf 7` Yeal i Sd
STi WZeW V eUZfISdg` Vg` eUZfISž6 [WZV[YW ba`Ž
f[eLZW 9dg` Vefl Wra` 7` Yeal, @VgbdSUZWL i [Wž
VS`] WV[VWV S` Vg` YVWVHMS` YWZVž;Z_ i Sd

S'e i S` V V W V g d L Z I B W W S g X W W ? W W W g ` M [` W W W g ` Y W W W [U Z W W h W d d f [` W W W e W e f V S e G ` Y W W W i S d 7 d i S d S ` W ž 6 [W H M S ` Y W Z M f i S d f a f l V [W L g] g ` g ` h a d e f W I S d I W U Z W 9 W [- Z M f Z S f f W W V S - S g U Z ` g d W W l [Y W W W W W W ? W e U Z S g X e W W E W W e S ` V I G ` V i S d g _ e a ^ f W W [W W e U Z S W W B S d W ` [U Z f W [Y V S g W I I [W W W W 3 d f 3 ` f i a d W W [Z _ V [W V d M I S Z ^ e b d U Z V S g X W W i W - W 8 d a ` f W e I S Z d Z M f e ž ? [` [e f W g _ e W ,

= D; 79 476 7GF 7F 8D; 76 7@

8D7; : 7; F ; EF E => 3H7D7;

G@I ; EE7@: 7; F ; EF EFÂD= 7

7 d l a Y W W 8 ö ` X g ` M i S ` l [Y ž 5 W f ž f ö U] S g e W W f S e U Z W W 3 g U Z Z [W i S d W [` i [l [Y W] ` S d W e U Z d V [W W W U Z W 6 W [e W W Y e f S ` l f i i B Z d W V [W = V z d e f W W W W ? ö ` l W W W = a b X W W 9 d a - W 4 d g W e l W W W e f a S d S g X W W ? ö ` l W h W W Y W W W W W W 3 g Y W ž h ` 9 W W _ ö ` l W 4 d W X S d W I 4 g U Z W T B ` W W 8 S Z ` W I B S] S f W L [Y S d M W e U Z S U Z W ~ h a ` ö T W S ^ h W W Y W e W W W W ž ; _ _ W i g d W W S ` h a ` W W 3 g Y W T W I S U Z W W h a ` W W e f [_ W W Y W ž ö ^ f ž ; _ I S U Z W g ` V [E U Z S X M T W W W 3 d I W f a W W T W W 7 e e W [: S g e a W W S g - W I : S g e l [4 S V a W W [4 W f ~ W Y S T] W 7 ` f d ` ` W ž @ [U Z f e Y W ž i d f W W W W S g - W W W b S S d = g T] I W f [W W [_ W Y W W E U Z B W W ž

6 [W e a ` ` W S d i W W W W W U] f i g ` V V [W g ` l B Z ^ Y W 8 W ž e f W W e I S Z d Z M f e ž ? [` [e f W g _ e S g X V [W Z d e f d S Z W ` [U Z f _ W d W W e S Z W Y d _ [Y i [W W [W e U Z [W e U Z S d W W W W 8 W f g ` Y S g e ž I [` e f a ` e : W h W I S Y f W S ` W W [U Z f e V [W W d W Y e [U Z Z a U Z f ö d _ W W W B k d S _ [W e f W S d l g

g` WELZöffW[UZ]g_ Weföd_flg i WWWWfSgeWVDS] VZ
fWfa_ TWHWA aZfWefW[UZ]lgI Wfcö_ _ Wf ži [WWW
XSYFWWe[UZ] Xdi W WeW FSYWgUZ eUZdVWž8ödV[W
Lg]g` l XcdV[W-HMS` YWZMf ~ XcdW LWSfWV VSe
h[WWWUZF`gdW FdSg_ i Sč;Z` W SFWW [UZf S`W
WfFaVea` Wf ha^efß V[Wßgef[`Yg` Yž6SeFSYWgUZ
i ödW]g 3eZWWWeflg T'a-W DSGUZ hWfD` `f
i WWWž@gdV[W9WS`] Wba[l W]i ödWVSe ha` [Z_
9WUZd[WWWWWW VZWe[VW]Sge WfI Wf g` V Sge
Wf7d` `Wg` Yf[`YVW] [W]a` `fW_ S` S` V[VLg]g`
SbbW[WWW i W`] W Wfbgdha` W Wf` [UZf W_ S^
Wf EföU] ZW BSb[Wf_ [f Wf bSSdVScgXYWdfl WWW
S` a` k_ WI adWZ[` öTW[WWW]i WWW]a` `fW
;_ FWW[eadelZ`gYWh[W]VZ GZč;` l VZ ? [`gfW
g-fWfSg dWZVžG h[W]VZ GZdVdW[Y_ g-fW
Wf]gčU] S` Wf3dVWf eW]ž

? W]i öd[W]W] WfVUZ[W]Z` VSeELZ'SYW Wfha^W
Efg` W_ [f` WgW ? gfWf^f]g ZSTWž7di SdW Wf eŽ
_ Wf9Sef SgXV[Wf7dWWW]W W SZdZMf hW] ö` WWW
V[W [W]S` V W]S`e Zi dW i ödWž3TW]ea`S` YWW]e[W
hW] ö` WWW]i SdSgXV] WYVW_ ` [eW^W WfWWW]dW
8SW` [UZf STYW]eeWž@[UZf[` W_ S` e[UZ 9W]i dhWž
eLZS Wea` Wf [` W_ S` e[UZ g` hWVZdf TW]SZdW
YST_ S` VSe 7dVWW] ? WeUZZMf i WfVZ 7d] VZdVW`
WVf[eUZ]gčU] fSgUZfWef VSWW]Wf g` VeUZdW,

%d[W]Lg]g` aWf W WfHMS` YWZMf [` Wf
9WS`] WX]ZMf ZW]Zf [` WfV[W] ? WeLZW ha` Ž
W]S` Wf]hWUZ[W]W]e] Vg` V` [UZf W]W]Xde[UZ Wf
~ W]W]W] [` W]W] SZdZMf YIfg` V]Se9W]ZWWW

` [UZf g` YAUZVW YW/SUZfi WAW] S` ` f dZ[U WUZ
V[VW 9dg- Sge W W LMSFWWVW9 WUZ_ SUZg` Y
g` V WWHMM eS_ g` Y W W LMSFWW W 9d- W
4dgW H W W LMSFWW W Li [WWS`] Wež

7di SdTWWefafitōTWVWVW7edZ[W [Z_ lS'eZSIW
WVWef WVi fi eWf WIS` YMS` YW ZSffW eW V9WS`] W
Xd_ g` [WVlg] i` ` W W W W f dZ V W W W W W E U Z d f f YMS` ž
6 [V8a YW W W W: S` Vg` Ye[` VeZa` [` W W: S` Vg` Y
eWef TWUZ` aeeWž7deUZd] W,

96Se9WS`] WhWVdWZWI [Wf` [UZf W W FaV` SUZ
eUZ_ VSe9WS`] WhWVdWZ W [ef W W FaVž

<Wf STW eWf W eUZ S'eW W fafW? S` ` TWV SUZ V W W
i gdW W i [UZf [Y ea `S` YW [W_ i Y [UZ S_ > W W lg
TWV WzLi W 8[Y W eW W W W W W W: S` Vi SdW_ [f F[` f W
TW V W] ež9 W S W W gdZ W W Wa' UZ W = W [Y W]] a` ` f W
_ S` eUZ h W S W W ž7[` eUZ` ö W W W S` Sf[eUZ W 7 [X W W
[? [[ef W] g_ h W W] gf [UZ W W S Sg_ ea W W S` Vi [W [W
] W V W eUZ T a` Wa W W V Se eUZi Sd Z S S d Y W W B U Z W S ge
W W > [f W S g d Z T W W g` Yfi] a` ` f W eUZ l g i g` W W S` S` Ž
Y W i S d g_ W i B Z d W W W? [ffSYeb Sge W W W eUZ d] W W W
i S d g_ W W W V S f_ a [eUZ W S Z W W W W W W W f l f g` Vi Se W
Y W eUZ d] W W W Z S f W_ g_ V S` ` S` l gefß V [Y W W W W W W W W
I [] l g Y W W ž7 d Y [Y [e4 S W W _ W g` V eUZ d g T W W W W
F[` f W W W W ead W S f [Y_ [f W W eS` V Y W V g`] W W d g` W
E W W W W W W V [W S` Vi [W eUZ_ [d W W S b [W S g X U Z W ž
W W W g` V W W Z S T X d e W W W Li W W Y W W Wi Sž

7d W W W W F S W W g U Z [V [W eUZ g T S W W 6 W 9 W S`] W
W l g h W W W W i S d h i ^ [Ye[` ` ^ ad S T W W W] a` ` f W W [Y ž
ef We H ad W d g` Y W f d W W W g_ eUZ l g h W W W [e W W] a T

WFWW fi adWi Sz7[li [eUZWV|VEMWYWWW
 : SSdi Sdlg SgYWX^Yz? [f WU8[YWb|f| Wb|U fWW
 W YSWW aUZ W W TSdWi W ^|UZWESgT| i d UZW
 SgXg` V^VFWWSgX|WU WWW7[TS` Vd i a WZWg` Z
 fWS^W_ g-fMi W `W S` VVSe4gUZ TWbZdVW

6 =

I [`efa` fdBg_ fWna` eW W? gffWZ7d_ g-fW/ea oTWZ
 ^VFWW|VZ` aWVWX-SZdMSf YW/VW eW| S`e eW W
 ? gffWVWVZI g` WVi SzE|V SdW| Wca-Vi odMa^W
 l|W ^|UZ ef[^V8Sg_ [f YW V eWWW 4WVWg` YW g` V
 i g` Wna^WTa` WW: SSdWYV/WVZEW|WHSFVZSFW
 Wlg` Wgf|UZW|` 7d` `Wg` Y, Vg`]WSSd|Yg` VZSYW
 [_ W|` WWS` fWVg`]^W3` löYW/I [`efa` WfeS` `
 eUZ [`eTwa` WVWV WVeVZdVö` `WELZgZeaZ^Wfig` V
 _ [f W W 4d^VZ6|WVWVW_ g-fW a WISdTWVW W
 WVWVW Yca-W EBgTWg` Yes] f[a` W `SUZ #+' " g_e
 >VWYV|a_ _ WeW ž

;_ FdSg_ eS- eW W? gffWIS` W W B'Sfl f|VXg` fW
 [Z_ l eW W ^W VEWZI W W|` WW 3d_ Wz7dW|` `WVW
 eUZ S` eW VEWZI W W|` gd` aUZ S`e S` W i [`l|YV
 dZi BZ^|UZW| [_ W|` Sgf^aeW=[`V_ [f Yca-Wl SgZ
 _ W|` eS_ W 3gYWz4VWWT^|U fW l g [Z_ W badE|W
 TVS` WW eUZ S` W WEFWVg` fW W 7dW~ W S SgX
 W W 9dg` W W W L|VZdg` `WeaW|` W W eVZdfVW
 9dT ~|S|W W W 8 W | SgXW e|W S- W eS`]|aTi aZ^

TWVf f[VXg` fW[Z_ YWWW eWef` aUZ [_ Wf[VXZ
`SUZg` fWSTZEW SdW [` Wf=SöfWV Wef`] WWW
ELZ[Wg` VT[U] fWVgdZVSe [_ WfVg`] Wf WWWW
I SeeWlg[Z_ Wbad@aUZi Sd>g [` Wf=SöfW aUZ
]a` fWeVWV'S WfVZWSTW[VVS` I VLVeS`] WeVW
f[VXZ [_ Wf[VXZ]` g` fW[` V[VVd` WI SeeW V[VeW
[` BZefW3gYWT[U] Xd [_ WfWV 4[U] Wf[VZW
_g-fWz7di WfW` >[UZf g` V>g li BzdWVeW` WW
FaVZ[g` fWVWYWi gdWVg` VeVW SdWVad Vdg` fW
i WfVZ[WaTWi Sd7di g-fWVg` VsgUZ eW g-fW
Wf g` VW]a` fW[VWV [eW[[ZdW9V[UZVW VVWz
7ei Sd] Wf Had gdXi WfV [ZdW9V[UZVW `aUZ [`
[ZdW: WfW` gdVse4Wg-feVfVS- eVfVWV_ g-fW
VS_ [fWIS_ >VWV T[VW g` VVS- V[W]gdg` Sgei V[VZ
[UZW Ad` g` YWV6 [YWVZi dV

7d]a` fWeUZ [UZf Wf` Wf li Se V[WV[UZ YWVZ
ZW i SdSTWVWf g-fW` eW W FdSg_ fVS- Vse>VW
eW Wf? gffWg` VeW WELZi WfV[dWVi [WdVSe
eW WVabXf i adW i Sd7ei SdW Wf WfVdSg_ W
V[W` WfUZSd] fVef[eUZW Hf] VVg` YWVfSg_ W
ValZ W VBadefWg` YWVWVUZW7dVWVe[Vg` V[
WWW W W FSfeSUZWg` V9WS`]Wlg_ 4Wg-feW
]a_ WfV[VsgUZ` SUZW 7d SUZW` Wg` Vi Wfha^
WELZ Wz6[W7d W f [d V[W [`efa` Wf b'i fl [UZ
V3_ WfWi Sd VS- WfFaV eW Wf? gffW hadVdW[Y
<SzdVsgXW W VVfSgdYg` VfcdY[eUZ YWVWi SdVW
WZVgfgSYW [UZf_ WzdYSTZfSY] fW]S` fWVWZi dW
WfVWV'S YWVWV'S ISeW aUZ W 7[VWVWV>[VW
g` V8dVg` VeZS YSTg` V[VW? [fY[VWVW VVSS_ [VW

aZ W SUZ W 9dg` Vl g XSYWl XcdM` S` WlWl fcdFWz
 6 [W7d` ` Wg` YS` eWVW gffWl SYVS` eWVW : Wl Wl
 Ww e[W SdSge>[VWVg [Z_ YWfadlWl S'e WleWef` aUZ
 lg`g` Yg` VVWWeõUZfYi Sdg_ [ZdW[VWVg Wl [Wl l
 g` Vi WleWlUZ [dWVi [W SgXl WZZW VleWVl` ` WlW
 WleUZ` [UZ_ Wzd~ W W FdgWMS`] W YabXfZSffW
 S` WweWVWl` ^UZg` Vg` WleZõffWl [UZ YSgIFW6 WlW
]a` fWZVflgSYW [UZf_ Wzdhad] a_ _ Wl VSeTWd
 WZ: WflgSYWST W3` Yefl : S- g` V>VM STWl] W W
 eSd] Wg` Vi Wlha^W9W6Z^W] W W[VWVg` VVWZFW
 ELZ_ Wl Wz3` ^VSeLZ[W Wl]` W WYca-W 3gYW eW Wl
 ? gffWl g` VeW WleZl WfWl g` WlW_ [f WWWW eWZ`
 VgdZVSeYcb` W SeeWlSgeW WlF[WVha` h[VWVZg` WlF
 =S` WlS` eSZWl VSTW[_ _ WlF[WVhWl]] WwZ

Bî fl ^UZefS` VVlSgXW WlSTYW BZFWl [WMSgXWl
 XWl W W9cê SdlWVl SdWl Ea_ _ WlSTWVg` VV[W
 FcdZ^W WlWg` fWVZWWW Ea` ` WlWlha^WVW V[WdWV
 6 [W`S` VelZS l[VWleSzl] WzdVaa [eWVWFdg_ W
 i [WVl VS- Wl` [WVlS` l eUZWl Sd aT WleW [UZf [`
 I [d ^UZ] Wl YWVZWZSffW;` eW Wl SUZW HadfWg` Y
 `S` `fWVleWSe 9a^WWW S` VZ7ei SdWl WlFWha`
 =S` [UZW TWl ^ WlW VWWWgdZ V[WV] 8g-bSV ^W
 _ [f VSg` V Vad W W ? Sg^1 gdeZõWZ;` WlWg` dWZ
 _ B-[YW 4Sg_ dVZWVWle WlWl [WV [WVW eUZ V[W
 Li VWWWG^_ W ^WlW` WleS` W 4deWg` V [ZdW
 4fWVl aYfW [V[UZFW 4õeLZW i [W8dSgWZSSç;`
 Wl@BZW Sd i W` SgUZ Sg-WleUZl W] SdWl fd3YW
 VSZ[[WVWVl8g-l [WleW eWUZFW 4gUZFW g` fWl
 WVI VWWVlBg_ W eUZl W eLZWg_ _ WwZ

6Se? BMZW _ [f Ww Vg`] W: SSd] S_ õTWVW
 I [WWSgXZ lgz? [fWVWVWl[YW4WVg` Yd- eVWUZ
 VSe= VWZVg` fVg` Vi SKW hWUZf[UZ TVEVW; Zd
 >V i Sdi W- g` Vi WZl STWVdi WJ fVWV HWIS` YW
 [[Z_ l S W eSZ [Z`] Sg_ S` ži Se[Z` [VVW 3gYWŽ
 T[U] YS` l W^fM SdVWVWg` VVg` YXdV[V9VWV
 _ [fVW eVZdV` VWVdi VVWUZ` VgVWf ZSfV? [f[ZdV
 9dV [Vg` VG` TVõ_ _ WZVW eUZ[W eVWVWS` lVg`fgd
 SIl gfg` l W VWS` lW6W] ad` g` Y eal S'e] i` ` fW VV
 9da- WdgVW V[VBSdVWg` V V[V9WS`] Wba^l W_ [f
 W V W V l [YW ZWV[UZW 3d_ TWVWg` Yi VVW [eZf
 i W W Ž 3gUZ VSei SdW V W W S fW L W f S` Y Ž d W W
 9W V W [` efa` i SUZV_ [fWV I ad` %ZS] W V S W S g X
 W W > [bbW SgX

6WVFWW [ead ^W W W aZdWTVõgTWWW BXW a`
 Zi dW V W [` YWUZV: i ZWdV [YEMg` W W S` YS` Z[VŽ
 7ei SdBg`] feVWVGZdX` XVZ HLW l g_ 3gXVZWXd
 S^VWZi dWS` YWfWVZl [` efa` i B l fVW V W = i dW
 Sge Ww 4Wf ~ W eUZ` V X SU] f W W` W ? [fY[W V W
 Âg- W V B S d V W W Z [W ` gdVd V SgeWV = ^W W V g`] fV_
 <SZd~ g` V W V d W õTWVW EfgZ^ ^W W W e Y d S g Ž
 SdVW V G` fVZV V g` V W V] gd W e bad fZaeV; ` VdV
 ? [` gfW TWS` ` V[W? adWYk_ ` Sef] ž6aUZ [_ ` B U Ž
 eW 3gYWT[U] d_ _ fW W eUZ g` fW V W V ZW[YW
 : gefWS` X^V W [Z Xef [_ W] gd ` SUZVW 7d SUZW
 õTWV W E W V > g` YW i gdW V S VgdUZ ea ha^efB V[Y
 ^W W V g_ bfl VS- W V W f i [W W 3fW eUZi bXV] a` fW
 [V W W eUZ W W > B YW SUZ SgXW DõU] W e d W f W
 g` V W bSSdf [W V B f W l õY W SUZ V W E W V B W W i SdW

g` fWVW3` efdWYg` YWw: gefWeYwUzi a`Wl g` VV[W
=dS_bSWWj` afWZSffW S` YW S` YWl g dLZ_ Wl Wz

%dgbWVWVW6 dW-[YŽ T]e H[Wl [YBZd]YW{ } BXXW
W WwUZd`^W8SgWef[_ _ W%9dgbWVWVW6 dW-[YŽ]e
H[Wl [YBZd]YWz 4[ffW SgXV[W B]H W6 dW-[YŽ T]e H[Wz
l [YBZd]Wz

I [`efa` `SZ_ efdS_ _ W Sfg` YhadWV FVWlead
S` l SgXWwW EUZ[d_ TWVfVSe 4[V W Wl [W ^UZ
g` YWl_ SYWVl STWl_ ge] g`i eW 8Sg [` W W = [ffW
g` VFgd dLZgZW WUZ[VW i Sč

%d VVgZf g` VfdW f{ ^VWVWaež%o FS] fl T[ffW
7[d li W VdW h[W 7[d li W VdW h[W >ad 9WaeW
W Tl-UZW ^VZS W 7[d li W VdW h[W 7[d li W
VdW h[W Š {

6Wlha` Ww : gefWS` S`^hWgdSUZVWUZ_ Wl ZSffW
[I [`efa` e 9WZ[d ` aUZ ` [UZf YS` l Ww 7[VdgU
hWl [eUZf Ww eW FdSg_ SgX[Z` YW SUZf ZSffWg` V
g` fWVW dZkfZ_ [eUZW 4W/Wg` YW Wl 9k_ ` Sef[]
i gdWV[Wl [WVl VZS Wl BZdWVW_ WZS` [eZ
eW W3d_ VVgYfVg` VfdW fM aTWwW 9W[Uzf Ww
TW[eeW TWVfVW 3geVdgU lgdELZSg fdgY WlXd
V[W? adWYk_ ` Sef[] HadUZd i Sd hWgUZfWw[eUZ
[` 9WS`] Wl gcbU [` V[Wg`] `SdLWf eW WlXbZW
=[` VZWf l g hWVW Wz6 Sei Sdßg- Wf dZi [WYELZa`
TWVW S` X[Wl-SZdWfdIFV[UZ WwVd` ` Wg` Yzi W
W] W Wßg- W[UZW 3` ZS`fcbg`] fWSTl S` V[W_ S`
e[UZ ZSfW] a` ` fW hW ad ea Ysd Wl HWSgXWV WVWV
>WWeeW WwVf[UZ g_ dW-TSdW a` fgč? S` WfS` `
e[UZ Yda- W 9WUZVZ [eWV[WVZdi SZdUZW ^UZ Ysd

` [UZf eSffYAg` VWZSffWl Wl ` WfVl[UZS` 7[lVZMfW
ha` Hach³Wl aZ` VZdW3f_ abZBdW [WdZVfVWl g
]i` ` Wl g` V WYST`S` YWVWVWVSTeZ` [ffW_ [fVWV
_ S` öTWZSgbf` [UZfeS` lgS` YWi g-fW6S_ S'e i Sd
S^W`S` Wl e YW V WzEaYsdV[W@_ W Wl >ß Wl g` V
[ZdW9WfSf SgXWl >S` V] SdW SdW S` Wl e YW V Wz
>g affWeföfl bg`]f @č #lg_ 4Veb[WZSffWl g Wl
LWf W` W`S` WdWVWVWZ` g` Y YWZSf, WZSffW7` YS` V
aWl9da-TdIS` ` [W YWZM-Wi W` SgUZ >a` Va` li [W
Wl [W ^UZ e[UZ Wl g eW YSgIFW_ _ Wl >a` Va` YW` ` f
i adW i Sč

I [` efa`]a` ` fVl[UZ` [UZf YWSg S` W` W L Wf bg`]f
Wl ` Wl I [` W_ eW W_ W_ Sf` [UZf [` W` W = dW
hWl [U W YW V W i B dWSTWl a WISdZSffWV VaUZ
li [eZWVgdZi i BZdW eW Wl = [VZMf W` W [W ^UZ
S` YWdW W e Wl a W Y W W W- W W` W V W V W X Z W W
7d` ` Wg` YW T W S X W W >g S` Yd l W X d W W l S` `
ha^)a_ WöTWV S d Z W Y W l a_ Wl g eW eZ [Wz H [Wz
^UZf ZS` W W W e l UZ g_ V [W L W l S` e V [W B fa_ Ta_ TW
SgX5aUZ W f W Y W S` W i Sč 7d Wl ` Wf V l[UZ` [UZf S`
W W >g S` Yd` eW e f W f e S` ` e [UZ STWl i [W [W S` V
eW W f S W e V [W e W [Y W g_] S_ _ Wf Z [W l S` e e [V Z] g` f W
[_ Wf [W X l g` V f [W X l Z] g` f W S` W` W A d f [W X g` f W
Wl 7d W Y W W f i Sd M [_ Wl [_ = d W e Sg X W W l e b [d S Ž
X d [Y W F d M b W V [W g` f W e W W E a Z` W V e W W W [d f
g` V e Z [W ^UZ e W W W W e a W l ö W W Z S f f W W S- W l g
'S_ _ Wl T W S` ` g` V e [W e V Z W T W l W g` V S g e d Z W
_ g-fWz6 [W? gffWl [` [Zd W l S` YeS_ Wl h W f d g_ f W
3 d f] S_ W` Y g f W e f ö U Z] f W l [Z` W V d W ž E [W f d g Y

eW ELZi VVWUZW~aWWh[VWVUZfSgUZ`gdW 4o` WW
6WU W, Wli Sd` [UZf e[UZW aT eW VEWLZI VVWVS_ S'e
eLZa` YWadWi Sč7` V[UZi SdW e[VS` W W oTWS^Z
fWAdfWJa_ WlWVWS'eW W G` fWdg` VISZ ZaX
Wj S` `fZSffW

? WeLZW] SgVFW oTWS^SgXWV eW YW SeVFW
8g-TaWl g` VS` WWS-Wl V[UZf lgeS_ _ WYWd3` YH
oTWS` S` WWSgXW 7[eWfd3Wl ži [`efa` l eW HsfW
g` V eW W? gffW S` WW W B'Sfl SgXW 4aWl
g` V V[UZf ` W W [Z` W eS-W EFWAS` EFWW S'fW
? S` ` g` V W VWS'fW8dSg SgXW W 7[eWfd3W 6W
S'fW? S` ` ZSffW W YgfW eLZi Sd W 3` lgYS` l W W
eLZi Sd W V eW öfl W Sd oTWeW W eW di W-W: SSd
Sge W eW [d YWU] f- eW 9W[UZf i SdT'Sgdfl g` V eW W
T'SgW 3gYW eS` WW ha` W Fd3` Wž7dcaUZ ZW[Y` SUZ
9[l WW eW W Sgf S` EFW ha` ELZi W Sgel gVö` Ž
eW eLZ[Wl g` V_ S` ZSffW SgTW] i` ` Wl SgUZ V[W
Fd3` Wl V[VSge eW W 3gYW da` fWl eW W bgdW 9[ž
3TW S'fW W ha` eW W VUZf W 4Wg`] WZV [ff W
SgUZ g` fW W W WZfW g` V g` Wfd3' [UZW =g_ _ Wž
;` eW W] [V[UZW HMF S` V TWd I [`efa` l VS-
eaW W W SeELZdW [UZW W SeG` hW VZ' [UZW g` V
` [W [W 9gfl g_ SUZ W W YWUZW i Sč7e eLZ[W
[Z_ SgUZi S'e i [eeW i Se W i Sč7e W S` Vl WW W
S'fW? S` ` [V ZSffW h[VWUZf W W W W7`] W l i Sd
W fW i adWž3` W Ssd3gYWT[U W VWS'fW? S` ` ha`
` W W Sge

%o [dZSffW [Z` W` [UZf fdSgW VöcWž: Stl [UZe` [UZf
[_ W W S'fW ? gffUZW16SeZSf_ S` VSha` l VS- _ S`

[Z' W h W f d S g f Z S f z; U Z Z S t i W e [_ _ W Y W S Y f z i [d Z f f W
 V [W W > g _ b W ` [U z f d S g W e a ^ W z
 3 T W i W Z W > g _ b W _ S ` ` [U z f Z f f W f d S g W e a ^ W i
 V S d `] a ` ` f W e [U Z I [` e f a ` ` W f ` ` [U z f _ W d W ` ` W f z
 E W f V [W W L W f ` B _ ^ U Z i S d W W = d W Y T g U Z e f B T ^ U Z
 W 6 S g W i g e f S ` V Y W a d W i W ` W e U Z S g U Z Y W S g Z
 Y W a _ _ W ` [U z f [_ _ W g _ W Y W U Z W = d W Y Z S ` W W W
 ? W d W a ` S f W B Z d W e W W i = [` V Z W Z S f f W [` > a ` Z
 V a ` e W e f i [d W e f d S - W] B _ b X W W a T H S ` W [Y W S h a `
 W ` ` W W W e U Z ` a U Z ^ W Z S z 3 T W V [W W W U Z [U z f ^ U Z W
 7 f i [U ` g ` Y W S g l g h W W Y W g ` V l g e S Y W i W W S e
 i W T W B _ b W i B d W h a ^ e f B V [Y g ` _ i Y ^ U Z Y W W W
 W W] W W a U Z d ^ U Z W B g X W U Z ` g ` Y a W W _ o ` V ^ U Z W
 O T W [W W g ` Y W i B Z f W W W V S ` W W W = a ` e f W S f [a ` S e
 V [W W W i B d [Y Y o f [Y W E a i S d l g _ 4 W e b [W ` V [W W
 3 g Y W T ^ [U] g _ V S e - S Z d # + * & / _ S ` e U Z d W f S f e U Z ^ U Z
 V S e - S Z d # + * & f A l W ` [W _ [f 7 g d S e W [_ = d W e l g e S ` V
 g ` V _ [f A e f S e W h W i t o ` W z ; `] W W i W f ^ U Z W a W W
 b d h S f W H W S g f T S g ` Y i g d W W W g Y W W W W i V S - V [W
 V d W ? B Z f W W W S e S ` W e Y g b b [W f Y W W W e W W z ; `
 I [d ^ U Z] W f i S d W i [W [` e f a ` ` e W z d i a Z ^ i g - f W W e f
 h [W i - S Z d W W i V S - A l W ` [W A e f S e [W T W d W f g ` V _ [f
 7 g d S e W W W 4 o ` V [e Y W Z S f f W z 3 T W V S e i S d ` g d W
] ^ W W e U Z [_ _ W Z [e f a d e U Z W i [e e W e l W W W S g U Z ` g d
 T W S - i i W e W W 7 d ` ` W g ` Y ` a U Z ` [U z f Z [` d W Z W W
] a ` f d a ^ [W i S d i S c z A I [W Z S f f W [W W W W H W B ` W g ` Y
 [` W W = a _ T] ` S f [a ` W W B S d ` W e f S f f Y W g ` W z A l W ` [W
 X Z d W _ [f 7 g d S e W = d W W S ` e a Z S f f W A l W ` [W [_ _ W
 _ [f 7 g d S e W = d W Y W W Z d z 6 W S g Y W T ^ [U ^ U Z W B W V

efWfW_ _ WfVSe 4i eVŠ` e[UZ VŠd g` V VŠdSge XfYfW
VS- VVWfVŠ` YWVaWfIlg]õ` [YVWfVŠ] Vg` Y_ [f
[Z_ g` W] TŠdi Šč

6Se EUZdM [UZeWföTWfVfWfIlg_ lVŠ fSgeWVŽ
efW_ S1i BZdW WfVf VEUZg'fWf _ [f dZ_ Wf WfWf
3` efdWYg` Yl gcbU d- /e[W_ SUZfW Wf f V[W Š VŠgX
Ww: õ Wf Wf [YVdg_ b VgYfWf VfVŠTg` Yf VZWW[W
DöU W_ ge] Wf efd] W ea'fWf~ VSe EUZdM [UZeWf Šd
VS- Wf XSUZS^Wf SZdaWfS'eUZ eWf]a` fWf W V[W
BSdV[eUZ ea [VVWfVŠ` YWZf Wf _ [eUZW g` Vha`
V[WfV aWfWfWf 7dMf [eTVŠSgbfW]a` fWfVŠZTW
` /VŠSffYfVg` Wf~ i ŠdVSe` [Uzf i [d [UZ XgdZfTŠdM
S'e ŠafWf g` VFaVl

6[VBSdVf eSYfWfVŠ [W eWf [W_ [f 7gcbE[W hWŽ
Tö` WfYfWfVWŽ7dI [efa` E_ [fZi g-fWfV WfVfVf
VS- AfVŠ [W` aUZ had` [Uzf Š YVŠS'e h[VŠSZdW_ [f
7gcbE[W hWfTö` WfYfWfVW i Šč3TWf i a i ŠdV[VfV
I [eeW hVŠ`]Vf1@gd[eWf W VVWfWf4Wg-fefVfVŠe
g` Sgei VUZ[UZTSV[EfSgTl VŠS^W_ g-fVŠG` Vi W
S^VŠ` WfVfV[Vha` WfBSdVf hWfTö` VVWfVŠöYfVŠgTfW
~ i W S^VŠgXVUZ` g` YWYVUZ` SgfVWf ~fVŠ` Yf Y
V[VföYf V[VfVUZ[UZfWfV g` Vi gdWf SZdVfVŠ` Wf
V[VHfVŠ` YWZf TVZVfVŠZf] ŠgfVWf[VBSdVfVŠdVf
%VZVfVŠZf V[Vlg] g` -i WfV[VfVWfVŠf TVZVfVŠZf
TVZVfVŠZf V[VHfVŠ` YWZfVŠ G` VVaUZ ZŠfV[eUZ V[W
HfVŠ` YWZfVŠ eai S` WfVŠdVfVha` @ŠfgdSgeWf _ aUZfW
` [VWfVŠ` WfVŠ6Se YWfVŠ BdfYI SZdVf[VfVŠZdT[e]
S^WfVŠ [Y] VfVŠ7ei ŠdYS` l Wf XSUZŠ7ei Šd` [Uzfei VfVf
` ifYŠ'eWf W [UzfŠdVf WfVŠ VfVfVha` E[VWfVŠöTWfVŠe

%ge Ww: ö W ZMSge TWYfi 9WaeWz 7[e ~ li W
7[e~ li WŠ {

I [efa` i SdV[WOTg` YeZdW V[UZ] VSeWZ_ ha`
Ww 8WVW T[e[e9W3- W W eVUZWWW EUZ_ W hWZ
gdSUZVg` Va _ [fW W W VgW: geW S` X^WWW
;Z_ hWV[YWV[VZS Ti VeXW V[UZW 9WS`]Wz6[W
HMS` YWZMf öTWVWVW i Sd` [Uzf` gdhW3 W V ea` Ž
WV dg` Vi W SgeW eZfi adWz6W i [W a` fW S`
V[Wa We[Uzf[UZefW SfeSUZVW V[W i W W~ Sg- W
[W W W W 7d` ` Wg` Y~] W V S` W W 3g X W Z` g` Y
V S d T W Y S T 1 7 d h W g U Z f W U Z l g W [` W l [i W Z W
< S z d W l g_ W e W_ S^ W W 9 d a- W 4 d g W W Z S f W W B Z Z
` W Z i d W z 7 d Y S g I f W W_ g- f W_ > S g X W W e W Z l [W
< S z d W W W W e W l S T W W i S d g` _ i Y [U Z l W W S f e S U Z W
e [U Z W l g e W ž; ` W W 9 W U Z [U Z f e S d f W g` Y W W B S d f W
Y g d W W W 9 d a- W d g W W e W e f h W f 3 V [U Z S` e 8 ö Z d W
g` V: ö f W W W D W a` g f a` ha` [Z d W W e W 3` X` Y W S` ž
E W W W W W S f W i S d W S^_ B Z [U Z l W [U Z l g d U] h W W
i ad W T l e e W W W e [V [W S Y W Z S W W W W h [W [W
g` V V d W [W W < S z d W g d U] d [U Z f W S` e V [W- S b [f S [e f W
` a U Z_ [f [Z d V e W e S_ W l k [V d e Z W: ö f W [Y d a- W
e Z l_ _ W W W 3 g f a_ a T [W a W W B X W W S Y W_ [f e W Z
[U Z W 9` S e X W e W V g d Z V [W e f S- W > a` Va` e X g Z d W z
? S` i g- f W [U Z f i [W h [W S` V [W W > W W W W S Z d g` V
i [W h [W W g` W W i S d l [efa`] a` ` f v e [U Z` [U Z f W_ S^
W [` W l l g i W Z W L W b g`] f V [W S d f W e W e f W e S [Y
[7 d e Z W g` Y Y f W W i S d 7 d Y S g I f W [U Z f V S e I ad
7` Y e a l W S` e h a d W W < S z d W # (" Y W i d f l g Z S T W l S T W
W i S d_ i Y [U Z l V S- W [e W W S f W 8 a d_ ~ ` B_ [U Z

S'e% Y[eZWEal [S[e gef ~ dZa` XbZWYWDgLUZ`LUZ
YWVW i Sz3 ^W i efWeLUZ [@VWWSgX? S`UZ_ S^
X[MUZ]a` fW_ S` W`WVWf`LUZVöWVWf`SYW ž7ei Sd
lg_ 4Veb[W` [UZfi SZd~ i [W` VW BSdVWVWLUZ[UZfež
TöLZWf TVZSgbfWi gdWVfVS- V[VBSdVW[VWgYfWYV
Wg` WWZSffV7dWf` `WfVqLUZS` 8gYfWYWha` eW`Wf
XbZWfW=[`VZVf`S` ž3TWL_ S`]a` `fW [UZfeTWVWVž
7eYST] W`W4WVWž@gdW_ S^ [eW`W` YS` IW>VW
ZSffVWVW g` hWf` W` TScW Va] g_ WfSdeLZW 4WVf
W`W9WLUZ[UZfeX`eZg` Y[: β VW YVZfWžG` VVSe
i SdVS_ S`đ S'e~ž

%b [fZ{ dZd[W[VW] [YWef]_ _ VSge VW FVWf[eadž
%) + E_ [fZ I ž <Sl E/W` W`WUZ` F[VWV]TöU] W i W`
[UZ TiffW VsdX E[WId` YW_ VzdXWf]Y S'e i Se E[VWS
l VVWžE[VWVW eLUZ] W`W? öZVf[VWV] TiffWEa [ef
W`eZa` TWVW9WaeVdDöZdM WWS` l W`WV]lg` V
S^W_ S^ZVWLUZSgW{

: W`WELZi W` i SdI [`efa` b`i fl`LUZ S_ YS` IW
=i dWfSgeWVdaUZWžEW 9W[UZf T[W ha^] a_ _ W
g` VgdLZVd` Y[LUž@gd] W`WG` gef hWVfW` @[W S'e
WfcbefW`W` 7[`W]l[W`LgU] W [VW3gYW]a` `fW
W`W hWVfWž7deS` VVSg` VeSZSgX Wf`eS_ lgi BZž
dWV[W`adfgd Wf` [ZdV3d W`TWVW=abXWZaTW
ZSffVg` VVS` ~ _ S`]a` `fW [UZf YVWVWYWS` _ gf]Y
STW_ [f WfSg` ^LUW7j S] fZVf`g` VFöLUZ[Y] Wf`~ W`W
f[VWV]g_ b WYV_ SUZfMi aTW`e[WZdW`adW`W 8[ž
YVf`[WV]g` fW[ZdVWVW eLZaTž

%4ffW9WaeWžEa _ i UZfWLUZ VSe TW; Z` W eWVWž
ELZSgWE[W [d` aLZ W_ S^YWSglgž;UZ T[`W` g` Vž

S` YWdSUZfzDWZfaha` VW EbdMZeUZdM[VW]W V` W` W
 DaZbaefd ZdWöd eUZd [UZW? [ffW]g` YW- [] e W` W
 Yd -WVdLW]g` YW-g` V[` W[W]W] S` M XdI [` efa`
 [` TWgW W[W]Zi W[W] Yd-W[V]gdZ W` =`SbbY[ffW]
 YWZöfi W]B` Y[UZWEUZ`fi ž6 [WWEUZ`fi V[W]W]e
 BSb[W] adIi g` V BZ` [UZWEUZ`fi W] SdW l g` FSgeWWW
 aW[L]VZ` fSgeWWW öTW]VSe YS` l W9 W]gW]W]W]W]f
 ` [UZ` gd[` W W L _ W]ea` W] [] gdW 3TefB` W W
 SgXW W 9S` Yž3ge[dW W] W 9dg` WZ[W]W e[W]W
 9WBUZf [ež`i UZWEI g-fW S` l VS- W] 6a] g_ W] l gd
 H W] [Uz]g` YTW] _ fi Sd aW]eSZ` S` SgUZ` gdW
 EföU] 3TS`bSb[W]Z]g_ [W]i SdW W] V]Sga_ S[e]Z W
 : S` V`g` Y VSeEUZgfi Y[ffW]W` BUZefTW]W 9WBUZf [ež
 >aUZW ZaUZl g] `SbbW g` V VSe BSb[W]Z[` W] l gi W W
 i adSg [` W]ha` W] W i Sd_ W >g efa_ l g W W dV
 e[YW]H]T]dW` g` Yei X]Xd]W]d]W]i gdW W]W] W W
 YW] W F[W] W W 9W]g W]h]T]adW]i SdWž

I [` efa` `SeV[W]W]L]W]W]W]W]Sg]X]h`f]Z]S]f]W]W]W]
 W]Z[W] W] W gdW] V]aW]i W]L]W]W] g_ X]eW]W]afž
 e]ZS [` W] ST]W]öd fW]Sd]a` l W]L] ? [[efW]g_ Xd
 [` fW] W]i W] W]W]g]f]f]i gdW]g` V W] [UZf W]W]f[UZ
 Sge W]@W]eb]SUZ]W]W]S` M] ST]W]h[W]W] l W] W] adW
 W]@W]eb]SUZ]W]W]Z[W]Z]E]W]S]g]W]W],

F[W]ha_ #žž* & 9 4 DW]W]V]TW]UZf 3X]S
 d]Z]f]W]ž

F[W]ha_ #ž#Sž*% H]d]Sge]SYW]%b &žC]g]Sd]S^*%
 8S^e]Z]V]g]U] h]W]W]W] @]S]ge]ST]W]

F[W]ha_ #&žSž* & ? [[g X]Z]l [f[W] EUZ]a]a]SW
 d]Z]f]W]ž

F[W ha_ %ž#Sž*% 4WUZF94FSYWTWZ^VabbVž
b'geg` Ygf ` W f G ` bWta` W fafS^g_ eLZdMF S` fVž
ad^ Wž

? [f W W ^VW 9W6Z^WU4WUWYg` Y^VWU [ž
efa` V[WUWfWafelZS T[WUW7ei SdWVWU [UfW
g` VhWU` fi adg` Ycha^W3gXSTWg` V TWUWUf S_
ELZ^g- lg WUWYWž6 [WU` WUW VdW/i SdW Dagf[Vž
S` YWUWZUWU i W` SgUZ V[W i V[WUWU gf[UZ W
S` Yi W[UW6gdZSU WU ha` LSZ^W[UfW WUdWU
i ödWž

I [efa` eLZS^WUWgXWU FWU[ead%8cbZUW@g_ ž
_ WU { WU g` VhWU` YFW[VWUfbdWZWWW 3geYSTW
WUFL WU V[WUa` `SUZ WU bSSd3gYWT[U W Sge
WU DaZbaeS` SYWZUWgeY[UfWž6 [WafelZS WU V[W
WUWZS^FW ZSffWUW aYW e[UZ SgXL WUg` YeSd[] WaWU
? WUg` YUW V[UWge V[WU aWUWU 9dg` WUgβ WU
aWU i [WU[Wa I[WUWZUW aY[UW SgUWU[UZ[UfYgUW
Xod` i f[UWUg` WU i gdWU Ea Y[YIž4žSge WUFL W
ha_ #ž? βd ZUW ad VS- WU9da- WUdgWU[eWU WUWU
S_ FSYW ad ZUW bcbZUWU ZSffWU[VUWUW V[WUžda` f
i ödWUgZ[UWUWU STUW[@adSXU] Si ödWUWUWU W
WUgeUZA WehWUaeTUMWž;` I [d [UZ] WU WUaUZ
ZSffWUSe WUgeUZA TWU a_ S` Va eWU WA WehWU
EöV[V[WS` YUWU fUg` V[3XU] SZSffWUgZUWUWU UZž
6WZST_ g-fWU/WUWUWU Sge` Yha` WUWUWU9da-W
4dgWUe YUWZdVWU i WUWU V[WUWU VSe hadSgeSYWU
i Sei [d [UZ] WU YUWUWU i Sž;_ li WUW 8S^WZSffWU[W
FL W ha_ #ž6 WUW TWU[Wa I[WUW HadSgeSYW WU
BdVg] f[a` hWUWU[WUWU9WU SgUZeYöfWU i βZdWUWU

I Se[' Ww g` e[UzTsdw >Stkd` fZ YwUZSZI [' Ww
V[VDaZbaefd ZdWlgeS_ _ W[VWMi g-fWw [Uzf [_
WlWwM ea` Ww `gd[` Yda-WG_ deWZi W` S`W
=adMfgdM V[W Ww@_ _ WwWf/ W` i f[YWw aZ
Wwi SdM YwS_ _ Wg` V] df[eZ_ [fW`S` WwWw[UZW
i adWwi SdMi gdWw[VW@_ _ W` Wg` YWdU] fi V[W
gdcb` Y[UZWw [UzWg` V`S` [ZdWfWwWw[VUzYz
YwWwV3geSTW` e3dZ[hW YwWz6 [WwVSw Ww
G_ i S` Vg` Ybdal W ha` 1aYe[Uz` [Uz` gdS` WwLWg` Z
YwM ea` Ww SgUZS` 4oLWw HLWf dZd Wl4d eZodW
B[S] Sfw 8gYTFWw l8[^ Wl > [WwVWw = Sd] SfgdW
~ S` Ww3d ha` > [fWfsgd V[WdWw [W ha` ba` [f[eZw
aWw [W a` a [eZw 4Ww f g` YeW] a` fW7[` WFSYg_
WwS` WwWg` V` Sef ha` ? [` gfWg? [` gfW` gdWw[W
HMS` YWZw_ [f Ww9Ww Sd [` 7[] S` YWwSUZfz
3gX[VWw Ww] a` ` fW6dWw ha` WwBSdWwWw SUZw
HadWwSYWw[Va] g_ WfSdeZwWw WwWwSUZfi WwW
VS- e[VUzY[YWwWwi Sd SgUZi gdWw [WwWg` WwVS-
_ S` WwWMSgfTScg` YaWw? Wg` Yefg-Wg` YSg` aH
V[WwWsgYWT[U] UZW9WwWZwWwi [WwWbSUZ6[W
YS` lW [efadVwS` Vea YWUZeS_ SgXW W Sgei WZeWZ
TsdW 4` Sffl VSeYwSgea a li [Ww` i f[Yi gdWwWwWf
g` V` Wg` TWUZdWwWw Ww] a` fWz`] WwW 8S` i Bdw
W_ i Y[Uz YwWwM` SUZ6gdZ6Zdg` YwWfHMSZdWe
` SUZigi WwWVS- WwW83dZg` YhadWw_ _ Wi adWw
i Sdz6 [Ww d -fW9dgbWwW3TFWg` YDW [efSfgd i Wf
Yd -WwS` eV[W [` efa` e` TWwS` VSgeBwW ha` WlWwW3gZ
YSTWw[Y[Uzi SdS` W3geSTW ha` 4oLWw HLWf g` YW
g` VS` WwW6dU] WwWgY [eeWsg` ` V[Y]g_ SUZWg` V

lg eS_ _ Wl V[VSg- W9 WdSg LZ YWMI f g` VhWl [UZfW
i WlW_ g-fWz7[` W@g_ _ WlWlF/ Wl V[Wh[WlUZf
[X^YWh` A` Wlg` YW[` Wlba^f[eUZW9 dgb[Wlg` Y
aWlWlha_ 9da-W 4dgWlSgeWlbaUZWW [dfö_ Ž
^lZW BbabZMMg` YW W 6gfl WW? S^` Wg STYMS-f
i adWi SdeS` V` aUZ_ _ Wl_ [f[ZdW gdbcb` Y^lZW
6Sfg_ hWlZW[[ZdW DWS1g` VWYSTSgXWlYS` IW
I W] W] VS` WlW3geYSTW[W_ [f[Zd[` I [WlbdgUZ
ZffVfWZ]i` ` Wz3gUZ4öUZWli gdW[_ _ Wli [Wl
SgeWl Hl WldYMaWg` V` Wg WlUZdVWg` VaZ` W
WlW: [i WlégSgXlWlhadWl_ _ WW HlW3 Wlg` YW
` Wg SgXWlWzEaYsdV[WlWlZdVWlW I Wlég` YWl V[W
I [` efa` WlZ[W g` V WlW Wlq[UZ [` WlW 8S^` SUZ
9WdSgUZ eaXdf WfW]YfWlbdSUZW` [VSgeaWl^lWW
VgdZl^lU Wl VS- W] W83eUZg` YhadWl_ _ Wi WlW
ea^fW[_ _ Wli gdW gdha` I WSeeg` YWl; dfö_ Wl l
6dgU WlWl aWlW3eUZW L[fSfW WlbaUZWl V[W_
;` fWlWlWlWl9WSg[Y] Wl dUZf[YWlWf i WlW_ g-Ž
fWz

;` I [d ^lUZ] Wl ea VSUZfWl i BZdW WlV[Wl[Wl
Wl3` YSTW Wl? [` [eWl]g_ e XdOTWl g- ` Wg W Ž
eWlWl SdWlSgUZ` [UZf W_ S^W] W83eUZg` YŽ7ei Sd
^WlY^lUZ V[W7[` eWl]g` YW] WlG` e[` eS` EfWlWl W
S` WlWz6WlYd -fWfWl Wl? SfWlS`d VSe_ S` TWlZ
TWlWlWlZSfW] Wl WlWlDWSf[a` lgdI [d ^lUZ] Wl^` [UZf
W_ S^V[WlDWSf[a` l V[Wl] Wl[d]WfWlöYWlgdI SZdWl
ZSfz6 [WlSf[ef] Wi SdW[[ZdWl gdbcb` Y^lZW 8Sgeg` Y
YWSgea i aZ^W] W3geWlWgd WlWZS` fSe[W] W] [ZdWl
TWlUZf[YW 8ad_ žEVlZdZg Yi gdWlWl SdWl VS- _ S`

lg TW/SZdWž7dT[U] fWSgXg` V eW W4d^W ScXW
XW VeWYW3g ^fl WlgI [^efa` ZWBTWZ

I [^efa`]S` fWf[^afea`]Sg_ g` VZSffWVW V3Z` g` Y
_ [fi WZW3dTW VTWZB [Yfi Sz6 [V3` YWVWVWV
DW[efSfgdbdSUZW` [UZf YW V6TW[ZdWFf[Y] VZ;`
WV `S` YW XVeWaeWESS^` [f eW VVabbVW DMZW
ha` @[dZW g` V eW W W'aeW DSdZW ha` Bsb[W
g` VEg_ _ W ha` Ef[_ W V[W V[VebdWZdZdM
dbSUZMeS-WW YgfW6gfl WW? WeLZM V[W [^efa`
` [UZfW_ S^WV @S_ W` SUZ]S` fWati aZ^WV[WSYŽ
f3Y[UZSgXW9B YWZ]` g` VZMWWaWV BZdWVW
Li VŽ [gfWŽ S-ŽEWg` YWf[] g^VW eSZ7di g-fW
VS- [W@ [dZW VV [Z_ V[W V W8Sg_ [f W
SdZT'a` W: SdSfYW fSYsgeVS_ [fTWZB [Yfi SdSge
WVbdeW[V@S_ W ha` ? WeLZWZVSGd gegLZW g` V
lg efdWZM V[WsbadeWfi adWwi SdWg` VV[W S`
[X'YWAeW ea TVZS` WMS'eZffW eW [W S'e VMe[VZ
6Sd` 'SYW VVW [eeV3TYWcbZfZW V W Vef hadli W
<SZdWi Sd[ZdVWVW? S` hsbadeWfi adWž7[bSSd
@[dZW i VVVeS- W_ [WV g` f6UZfYW hVfBg_ fW
? WeLZ` S_ We3_ bVkdZl_ [f eSd] TVZSSdFWAZdW
g` VVW W VefSg` ^LZWFSWf_ [fDM W g` VHM_e SŽ
-Wlg` a` Y[VW VVVS]gS` YWVfi Sd YW VVWVW
~ %WVYöf[YW8Seg` YW{hi [WVZ[W ~ ha` 9W[UZfW
ZV gefWV V[VW aY[dZS` fi -[YW adWwi SdM V[W
_ S` STWVSeV[W aWVWV 9dg` W V W9W[UZŽ
eS_ _ g` YWTVVZSfWi a^VZG` VVWESS^` [f eW W
W S X` X[Y3` YWVW i Sd` gdW Vg` fVSTVg` Y
DM[efSfgZ@VWV öTWg` Vg` fW[Z` Wi SdW S` W

ELZi B_d_ W ha` 3` YWFWW_ [f W| W|g` hadfWISdW
H|W|S`f ha` 3d|V|W TW|UZB [Yfz6S i SdW V|W|da-W
6dgU W|W|_ [f [ZdW: [X|dWS] fVgdM [ZdW VdgU fWZ
` [eZW 8SUZ|W|Wg` V|ZdW ZW|hadfYWW SgeY|Sf|W|W
3fW|W|X|d8B`eUZg` YW ha` BZafaYd|BZ|Wz6Si SdV|W
FWZ|B|aYd_ _ Z|TFW|g` Y_ [f [ZdW;` YW|VgdM [ZdW
B|aVg|] f|a` eV|W| g` V|ZdW| E|S|T ha` ELZSgeb|W|W| |V|W
e|W|W|_ : [T`|U SgX|Zd;_ [fSf|a` e|S`W|f SgeYW|B|Z`f
i adW|i SdWz6S YST W|V|W W|UZSdW ha` 4|T`|afZ|Z
] SdM|W|W|3gX|ST|W|W|Y|UZ V|Sd` T|W|S` M >[eW ha`
4oZUW| g` V|L|W|f|e|Zd` W SgX|gefW|W| ha` W|W| W|W
@V|Sg SYZW|W|W|W|i W|W|_ g-f|z6Si SdW V|W|da-W
>S|Y|B|g_ W|` W|W|V|W|ad|Y|W|W|6dgU W|W|Y [eW
Sg W|SZd|g` V|V|W|W|f|W|f|W|H|W|dW` g` YeS` `SYW| [
W|W|V|W|g|d|b|c` Y`|UZW 3geX|ST|W|H|W| [UZW|f|i gdWz
G` V|d|W|W| a eS-W YS` l S` a` k_ V|W|W|W|W|W| : [d W
V|W|W|YS` l W 4W|W|W|] aad|` [W|W|W|g` V|V|W|W|a`|f|e|ZW
D|UZ|f` [W X|f`W|W|W|` SUZ W|W|V|W|W|4dgUZefoU W|W|
H|W|S` YWZ|W|Sg W|SZd| W|W|Y|B|e|Z|f|g` V|W| S` W|W|W|
SgeW|W| W|Y|W|UZS i gdW|

G` V|V|a|Z|i SdV|W|W|W|e|f|d|f|g|d|S|T|W|W|g` YS`e|ea|UZW gd
W| W|W|l W|W|Li W|Y|W|W|I SZdZ|W|e_ [` [eW|g_ d W|W|W|
: Sg|b|f|Sg X|S|T|W|S` [UZf V|Sd` T|W|S` M V|W|H|W|S` YWZ|W|f
W|f|e|d|W|Z|W|W|] g X|e|W|W|e|a` W|W| V|W|W|o|d|W|W|A|I|W|S` [We
_ [f L|W|f|g` YW|8|^ W|>W|Z|f|o|UZW| |f|W|W|W|e|a|Z|B|aYd_ Z
_ W| W|S|W|f|o|U|W|Da_ S` W ~_ [f W|W|W| g|d|h|a|d|f|W|ISZ
dW 3d|f ha` @SUZd|UZf|W|4W|W|Z|g` YaW|W|G` f|W|Z|S|f|g` Y|g
H|W|e|a|W|W| ha` 6W|_ B|W| S` Y|W|S` YW|T|e|l|g_ f|B|Y`|UZW
= W| e|b|c|g|U|Z| ha_ `k|d|e|Z|W 9W|UZf|T|e|l|g|d|T|a`a|Y|e|Z|W

3TZS` Vg` Yha` Wd=[` Wd TWI]elg_ I idfWtGZWW
 @VgebdSUZVG` VVSe? [[efW]g_ _g-fW [UZf` gdV]W
 _S` [YSUZW4WödX[eeWWSdV]TW]W]W]ea` Wd
 WWS` IW3d]W]eS` Y` aLZ]W` S`SgXW` [Wd]WdW
 @]h]Sg W]Bd`V]S]S]fei [W]Za`W]7eYST]W]V]W]Z]W]a`
 T]a` W]W]3T]W]g` Y]W]V]V]e]L]_ [f W]d]b]d]V]S]d]e]Z]W
 >[f]W]S]f]g]d]_ [f? ge]]] W]S]W]g` V]H]S]d]V]a`X]d]B]d]V]S]d]W]
 T]W]S]-f]W]Z]6]a]d]i] g]d]W]_ [` W]d] W]f]Y]W]L]W]g` Y]W]V]W]S]e]f
 ` [UZ]f]e]S]e]E]b]a]d]f]H]M]T]d]W]Z]W]g` V]S]e]f]d]a]Y]e]L]Z]W]S]f]e]L]Z]B]W]
 W]Z]W]W]M]d]W]V]W]e]L]Z]W]S]ö` X]Z]W]Z]D]a` S` W]h]a` E]W]g]S]f]f]f
 e]f]d]a]f]l]W]W]W]8]_^] W]g` V]e]W]f]_ W]f]S]W]E]L]Z]S]Y]W]Z]W]M]W]f]W]f]
 V]W]h]a`^]a`_ W`_ W]Z]S` [e]L]Z`_ [f: [X]W]W]W]3]d]f] =S]W]Z]
 V]a]e]l]a]b]l]W]e]a]W]S` `f]W]H]M]e]l] U]S]f]a]d]H]S]T]Y]W]S]-f]i] g]d]W]Z]
 7eYST]e]a]Y]S]d]W]W]S` I]V]G` f]W]S]T]f]W]g` Y~ B]a]d` a]Z]D]a]Z]W]
 e]W]` W]d]@]V]g]e]b]d]S]U]Z]W]-I]V]V]e]L]Z]_ [f W]d]_ S]e]e]W]Z]S] W
 7d]W]g]Y]g` Y]W]d] [W]d]Y]e]f]W]3]d]f]h]a` B]a]d` a]Y]d]b]Z]W]V]W]S]-f]W]
 V]W]` h]W]e]V]W]W]H]M]S]U]g` Y]W]h]W]S` V]f]i] g]d]W]g` V
 h]a`]W]W] B]S]d]W] [f]Y]W]S]g]-W]W]W] [` W]d]T]W]d]W]W]W]W]
 3T]f]W]g` Y]T]W]e]L]Z]B [Y]W]W]T]W]S]U]Z]W]i] W]W]W]V]g]d] W]

6d]W]? [f]f]W]g` Y]W]i] S]d]W]S]g]e]W]d]D]a]Z]b]a]e]f]S` `S]Y]W]W]V]f]Z]
 f]W]i] B]Z]d]W]I [` e]f]a` S` W]d]3]d]T]W]i] S]d]S]T]W]V]W]Z]S` W]W]W]
 e]L]Z]g_ W]X]S]U]Z]W]6 [` Y]W]g` V]W]Z]S]f]f]W]e]l]W]W]V]W]Y]f] V]Z]W]
 W]V]g]d]Z]V]W]L]i] W]Z] [` g]f]W]Z] S]-Z]E]W]g` Y]g` f]W]T]d]a]L]Z]W]
 i] g]d]W]Z]3`e]V]W] S]-a]h]S]f]a` I]g]7` W]W]S]d]Y]` Y]W]d]` e]W]W]
 @]e]L]Z]W]g]d]U]l]e]L]Z]a]T]W]W]E]b]d]W]Z]e]L]Z]d]W]T]W]S]g]X]V]W]E]W]W]W]
 b]g]f]l]f]W]e]W]W]d]q`^]W]g` V`_ S]U]Z]f]W]e]L]Z]S` V]W]S]g]b]f]S]d]T]W]f]
 V]W]W]S` V]W]W] ? a]d]W]l]g]T]W]B]f]f]Y]W]Z]S]f]f]W]

I [` e]f]a` e]Y]d]-f]W]S]d]g]W]W]_ >V]W]i] S]d]e]W]V]B]d]T]W]Z]6]S]e
 _ V]e]W]W]S]d]S` Y]i] W]Y]W]D]a]g]f]` W]S]T]W]V]e]Y]S]T]V]a]L]Z]S]g]L]Z]e]a

dZi [MfWg` V] ` [[WBgXSTWVScg` fWfVS- _ S` eLZ
Vsd] i [W` WWF[MWV_ SfZW_Sf[eZWfBaT`W`VWf[MW
]a` `fW- XW V83^eLZg` YWl TM[VWVW_ S` ha` ` [UZfe
S` VWW` YWVf/i gdMS`e eW Wf= W` f [e WfBd` l [Z
b[WVW7` Yeal g` VVW` VVWV7[` XZ`g` YehW` i YW
VScdi SeV[VBSdV]ha` W` W` Wf SdVW` [`efa` i Sd
[` V[WV6[` YW fõUZf[Yz9VWVf[UZ i SdWf eaYsd_ [f
WfG_ SdVf`g` Yha` hi ^[Y[` Wf@Wg ebdSUZVWMS-fW
>WfSd] W` WfF[W` TVfSf i adWz7dca`fWV[W? [Z
fWg` YSgXV[Wf hadZWfTVeV[VWVWf ZSffW

F[Wfha_ %z#Sz*% 4WfUZf94FSYwTVWZ^VabbWfgeZ
g` Ygf` W` fG` bWfa` W` fafS`g_ eZdMfS` fWadV WZ
;` WfSfWg_ efB V[UZW EbdSUZVZ[WVSeg` YWZd
eah[Wi [W

6W4WfUZf õTWVWFSYwTVWZ^Ww9da-W4dgWf
[` WfF[Wfha_ %z6VWV TWf#+*%[ef Bg- Wf`g` TVWVZ
V[VWVg` VWf BZ` fZVfW [UZf_ Wd`VWVWVWfa` Wz
@aUZW_ S`hi ^[Y` Wg eZdMfWg` V;ZdW7` fi gdS`
Zi ZWVfWfW hadVWf VZWV[3dZ[hSTVWVf i [dZ

I [`efa` `Se VV TWf efS` VWW 3df] WVgdZz6Wf
FSYwTVWZ^Ww9da-W4dgWf ZSffW` WTSdZSgbfZ
efUZ[UZ[` W` W` >aT[WfSgX[VWVf`g` YW WfS`eE8LL
TWfS` `fWAdS` [ef]a` TWfS` Wf[VWV6dV[W? Sfd eW
SgXWELZi [_ WWW8Wf`g` YWL[VsdMfWg` VS` WfW
LgTVZi dWVWf fBY[UZW >VWVe ^VWVf7[` YW [eeW
9WaeW [fZVW Wf bca_ [` WfW? [fY[VWVf;` ` WfW
BSdVf i Sd_ [f` S_ Wf[UZW7d BZ` g` YWZdf`g` V_ [f
WfLi V[W = `SeeVWVAdWVe XcdTWa` WfVWVW[VefW
SgeVWVUZ` Wf i adWz

6dM? a` SfWeb3W i Sd V|WE8LL b'i fl 'UZ aZ` W
 4MS` fSIVW W9dg` WeSgXWefi adWz? S` Vgd W
 S` `W_ Wl VS- I [fZWe g` V eW W9WUZB eWZSTW
 Wf|` G` Y SWWMS^Wi SdM WwUzi Sd|` WbDaeW
 aWV VgdLZ WW FWW|ead] W 4WUZf VSbTW Wk^Yfz
 6Sei Sdl g Wl SdFW YWwWl VS W` [Uzf oT^UZ i Sd
 ba^f[eUZWEo` Wl had9WUZf lg eWw aWl i Wf^UZ
 S` lg] 'SYWz6 [Wca-WEgTWg` Yes] f|a` Wl TWWWWW
 eUZ.g` FSgeWWWa` ? WeLZWZS` WWM_ [fi Wf^UZW
 HmZS` Vg` YW ha` HmBFW g` V9WS`] WhWl dMZW l
 V|WS` ` 9WfB V [eeWZdWSteUZg^UZW HmTdMZW
 STVW g` VVSdGxz|` YWUZW i gdWl i SdW TWa` Z
 WwWUZSgeWg` Wl V|W [Uzi WlS'eW_ S^S^WSZdW
 eSffS` Wz9Wi Z` ^UZ hWUZi S` WW ? WeLZW V|W
 eUZ VSe? [-S^W WlBSdV| gYMaYWZSffWl YS` l W Z
 XUZl g` V_ S` Zi dW [W |W Wl Se ha` [Z` Wz? S`
 WZ|W` [MSgUZ` gdV|WwWwB` Wgfg` Yi SeSge[Z` W
 YWadW i Sdz;` _ S` UZW 8B^W i SdW e|Wh|WwUZf
 ` [Uzf W_ S^fafz 7fi S VdW|Y? WeLZW V|W |` efa`
 bWl i` ^UZ YMS` ` fZSffWSTYwZW ha` eW W 7fWl l
 i SdW | >SgXWwLWf SgXV|Ww V|WwWUZi g` Wz
 I |` efa` dZgTIVWUZ_ [fV|Wf W] 'S_ _ W|V@SeW
 ;` Wl@eLZWWeWfeW9S` YWeS- 9WaeWf|^afea`
 `aUZ | _ WYwW` [efgWl dZ oTW eW W EbdWZ dZdMz
 TWYWgYfz7dZaT W W 3gYWT^U WW = abXi [Ww
 VSeXV VeWYWl^fl W Wl4d^Wl |` efa` XSYfV|UZi aT
 9WaeWf|^afea` _ [fWlY^WZw3dV|W i [WlTWUZB [Yf
 i Sdz6Sei SdVgdZSge_ i Y^UZz7|` ea] | [YwEfoU
 3dV|W i odW W|S'e` gdW W ESUZlWdV|WlS` hWz

ZSfWTVW/Wi WF^UZW9WUZfhwZS` Vg` Yi [WwW]
YbWef[eUZW7dUZW]g` Yi a WVS` ` : g` WdVVS` WdW
VgdZ eW VLWgYWSgeeSYMTVSe^MMZWWV[V_ S^Xod
[_ W]ha` Wd4[V BZWWdZi S` Vž

I [fZWe WaUZi SdTWWfeW]WG` bWza`ž7di Sd` [UZf
hadZS` WW, Wi Sd` [WhadZS` WW YWVWZi [`efa` WfZ
dZ[W W YWöYW [UZf W] XUZ V[VFWWW] WdDWWWW/
9da-W 4dgWdSgXWW = abX]g eFWWž7ei SdTWeW
_ S` ^[W e[Wa` W] SeZS` WWIVSeöTWZSgbf` [UZfe_ [f
[ZdW gdbcb` Y^UZW W]Slgfg` ZSfW

7d]a` fW[VdWW] V[WöT^UZW3`]^SYWVWVHdWfW
g` V9WS`]WhWdUZW]hW] S` W]ISTWVSei SdW
T[-UZW]g` SZVWWW-S` WdW]fei ödWV[VdW]efcZ
fgdlgeWdöTW]SeW]i W` _ S` W]WE]WS` W]8da` f
aW]W] W Fd]g_ bZ W]ÖTW]bcaVg] ffa` i fZdWV W
` W] fW6d]SZdW]S` W]W` W]i a^fW]6SeD[UZf]YeW
i SdeZa` W] d]W]W]BZS` fSe]W]W]W]B]fi [UZ dZi W]W
[Z_ l j g` V XW]Y] V]WBZS` fSe]W]W]S`f W] W] YW] [eeW
9WaeW AY[hk had W]had] gd W] g` fW]ZWWZS W
G_ efb` WW[_ =S_ bXYW]S`^Wi Sč? S` UZ_ S`^]S_ W]had
VS- W]9da-W]dgW]eW] WFSYW]VWZ`^W] 9W]UZf` [e
W] W] W] XUZW] W] ? S` ` eZS` eefS` VS` YW]i dWWW
BSdV] [fY^Wei [V_ W]W]W]eW >VW] g` V EFW]TW W]
S`eW] W]@SUZSZ_ g` Yi öd]W]W]4W]b[WZ]` eFW]W]3`
V]W]W] %ž6 W]W]TW]S`ea ea^fW]W]W]9WaeW AY[hk
YWW] WžLi SdYST W] W] W? WeLZW V]W]@S_ We
SgXW]W] W] STW]W] bSSd YW]dg] fVL]W]W] g` Vli W]
YW]eUZfWBZafaY]bZ[W]i ödW] [Z` eZ` W]g` VaZ` W
Yda-W? öZW] e>W]W] dgXWž

I [ˈefaː ɔ̃TʷVʷVʷVʷ W 3gYWT[ʉ]l laYVSː ˈVW
EbdWZeZdMʷVlg e[ʉZ ZWːSː ɡː VTWːSː ˈ [ˈ Vʷ hWž
fdSgʷEʃ[ˈVW9da-W 4dgWVl g V] f[VWZ6 [VWVʃ[1
lgYVʷZ_ [ʃf3dʉZ ɡː V bWSː f[ʉZ i Sd [ˈ XːYVʷVʷ W
=ː [W 8dSYWlg eʷW ɡː V eVWaxdf lg TWːSː fi adW
/‰ WZVWZdMʷ Wi [dVScSge 9WaeW16 [VWZdM
VʷSgʉZ W W W 9dgː Vbdː l [b/W haː 7ː Yeal [efː ˈ β_ ž
ʃʉZ VSː- {fi eVZd VʷZfː ˈ SUZlgSZ_ Wž

;_ 3 fW haː VdM-SZdW ZSffW9WaeW AY[ˈhk] W
Sː V W Eb[W V ɡY Sːe W W Fda_ W W W? SdZ[ˈ Wž
b[efaˈWgː V W 8ːgY W ɡY_ aWV [ˈ V[W Sː Vː W_ W
i aˈWžEWZeβZdYi Sd W~ [ˈ XːYVʷVʷ W TWaː V W
9WVZ_ [Ygː Y W <SZd XβZ W Sːeː SUZ V W EfSgʷ
lgːBe[ˈY ~ V W EbβZ W TVʷVdM W- _ [fː ˈ Wgː <SZdW
i Sd W FdgbbXZdM YW adWž? [f VZSffW V eW W
Aː] WTWVW9WSː] Wbaː[ˈl V/Sː YWVʃhː] SUZW W
W W ɡː fWZSːfgː Y TW SgeZf ZSffW V[WZ_ hW TdWVž
dʉZWFWWW Wlg ZSIW eZ[Wž? [f e[V V i Sd W
4Wd eV W W ɡY Wž /YS YW VEW ɡSʃf3 YW adWž
? [fː ˈ W 1VZ ZSffW V W Sː VYdː SFW ɡː W V[W
ha_ 8dWWe_ [[efW]g_ ɔ̃TʷV a_ W ɡː V TW [ZdM
W eW hM ɡZe V eW 3ː i W ɡː Y_ [f W W ELZːSY
W ɡː W dM [Y ɡSe[ʉZ W9VSː YWWW fW/ZSffW? [f
Vd ɡː Mi Sː l [Yi Sd W_ =S_ bXVːSː Wž haː X V [ʉZW
6öeWβW SgX W W 8ːgY_ [fi [ʉZ [YW6 W W ZW ɔ̃TʷV
W W ;ː V[ʉZ W A l Sː hW Vʃhː ZSffW V W V W W > V
_ [f W 4adž 9 TW Z V ɡː Vi SdeSː fW 6 W W ZW
SgeW 8ːgY W Y[ˈ e? W W Vbdgː YW ~ W FaV eSYW
W 9da-W dg W W_ Sː ɡː _ i Y[ʉZ aZː V W W W ZːW

TWdSUZFW] a` fV6W9da-WdgWd6YFWW bSSdl adFW
õTWMW>SgWJ Wf g` VG` fSWWY] Wf ha` 9WaeW AY[hke
>WWZ[` l gž7di SdW ha`efß V[YW3Tef[` Wl Wf g` V
@[UZfSgUZWY W W M ZSffW] W WS` WdW7dZa`g` YS'e
W W W3Y[UZVf g` W SgXW W Fgd b'Sfl YMS` ` f g` VVSe
9WõTWSTY W M g` hWZM6SM g T V M W VS W 7ZVg` V
8S_ [W eadW Xdg` hW M T Sd_ [f W M f3Y[UZ h[W g` Vž
li S` l [Yefõ` V[YWB [UZV6^g` YZ[Wž7d] S` ` fW W W
S` WdW 9WõdJZeefa S'e V[W9dg` V W Z d W W 7` Yea
g` V] W S` WdW > W W d [WS'e V[W M [UZig` Y W W d Sž
e[eZ W 8W W W g` V V[W G` eUZB/[UZ_ SUZg` Yha` Eba` W
ESTafgdM 9WS`] WhW T d W Z W g` V S` W 3 d W ha`
H M H F W g` V S` W d W g` eSgTW W 7 W W W Wž

I [` efa` eZi S`] fWaT W W W 9WaeW AY[h k W W
AdW XdTWa` W d W H M [W e V W M V Z W ea` fVž3_
ELZg`- W f e Z [W W e [UZ VSY W M i W W W d g` ` i f [Y W
D [UZ [Ye W g` Y W V [W Se_ [f e [UZ T d` Y W i õ d W

@aUZ W _ S` e Z [W W W] gd l g e W W W D [h S W [` W d
Y W W õ T W [W W W W @ [e U Z W Z [` õ T W 7 fi Se e Z [W [Z_
_ [f 9 W [-Z W l g e S Y M VS- F [^afea` _ [f W d Y W [Z W
3g X S T W W U Z B [Y f i S di [W d e W e f z? S`] a` ` f W [UZ
i [e W i W e W > i e g` Y e Z [W W [UZ S` Y W a_ _ W i g d W
S T W W X Z f W W W [W W T W W g Y g` Y VS- W W W H a W W
S T e Z [W W i õ d W 9 W a e W A Y [h k had W W e f g` W W a L Z
[_ E L Z a- W W W @ [UZ ž 9 W S U Z F W i S d W f W W F S f e S U Z W
7e W [Z_ W l VS- _ S` e W e S_ W d W e W f a f W 9 W S f
Y W W] a` ` f W [UZ f S T W > W W W W ž 9 W a e W A Y [h k
W d [W` W d 9 W W i S d Y W W Z S f f W W W W M f [` W d
H M S` Y W Z W g` V i W W e f W _ S` V [W S f e S U Z W W

8B'eUZg` YhWVW i Sd i ödWVWVWWea SgfZWf[eZ
g` V VVWea `SUzi V[e'UZ hadZS` VW eW i [W=Sc`VW
9da-VaWV-g'ge5BeScz

8 =

;` Wdf[VXg` fWVW7dW[VWVWV ` [WdYW=S` f` W
cbU fW[VWUZ'S` YWVW? [fSYeYBeFWgd'S` YeS_ had` ž
6WDSg_ i SdTWVVeYVd3 Yfha^g` VVWZVWUZVWV
TWgTWVWV>Bd_ žHa` WV : WVZ[` fWVW 3geYSTV
f[eZef[VWVWVU]V6S_ bXWV7[` fabXWUZfeSgX_ [f
W`W e3gW[UZ` WS^eLZW9WUZVWV[V6õ` eVWV
H[ufadž9[` e` [UZfYS` l õTWVW]fV3_ 7` WVVW'S` YW
DSg_ W` B_ ^UZTVS` V e[UZ W`W ^W VWSd` gdVW
WVW@[eLZW` WVI S` Mi a_ S` W Yd-W9`Se9[
XdlV 5Wfe]SgXV]a` fV

%S[e' S WV? S` ` I WV [UZ egUZV eSYVW Vef _ W
Z[` fVW [` efa` eDöU Wz

7dVdVWVUZg_ ž7ei SdeW 8dV VEk_ WVV[` W
8adUZg` YeSfVg` YSdVWVWVH[VWUZf i Sd%8dV V
` [UZfYS` l VSeqUZf[VW adž? S` ZSfVZWVf gSfVW V W
8dV W_ S` ZSfV=S_ WSW- STVWYST=S_ WSWV
WVW9WVWZS` S` YWV_ WVi SdS'eV[V` WVWVek_ W
i SdEbdSUzi [eeWeLZS` W V W EbVMS[ef Xd%WVebdž
UZVž7dVWzi dWg WdVWVW9dgbWVh` 8SUZVgVW
V[VWVf_ [f WVLgeS_ WefWg` YWVW W 3geYSTW
WVI i dVWgUZeWV@VebdSUZVWVfSgf i SdWž7di Sd

W i [l [W = WUZM] W W S e I [efa` l _ [f Vg`] W
: SSdg` V Yd- Wl ZW hadf MWWW 3gYWl V [Wf d Sgd Y
g` V ebi ff [eZ l g Y WUZ Vd W T [U] fW g` V _ 9 Wbd BUZ
VSe 9 W [UZf W W 9 W W ö T W e Y W Sg l g Vgd UZ X d UZ W
dZ [W W Z

% bZ i a` Y W [UZ X S Y W l a T V g h [W W U Z f W b S S d D S e [W Z
] [Y W Z S e [l e S Y F W W Z

% @ [U Z f W W h W e [U Z W F W [efa` _ [f Y W U Z e S _ e Z g V Z
T W g - f W l : S e f z % b Z Z S T W ö T W S ^ i W U Z W S g X g f d M W
h W e g U Z f z 7 e Y [I f] W W _ W d k

4 W f B V [Y i g d W W S` ha` S` W > W f W ` S U Z D S e [W Z
] [Y W Y M S Y f z ;` I [d [U] W Z S f W [efa` ` a U Z l i W
g` T W g f f W W Z a d W Z E W ? a` S f W e Z a` Z W H U Z F W S` Y W
S` V [W W 3 d [] W Z 3 ^ W S g Y W T [U W W Z f W W S` W W
` a f i W W [Y W 9 W d S g U Z e S d [] W W W V [W B S f W M B W ` [U Z
[W W] a` ` f W Z ? S` U Z _ S` i S d W W = ` i b X W _ S` U Z _ S`
E f a b X a` W W S` ` i [W W U E U Z ` ö d e W] W l g d L W f i S d W
W D S e [W] [Y W Z ? S`] a` ` f W e [M i W ö T W Z S g b f ` g d
V S v g d Z T W a _ W W S - _ S _ W Z d a W l i W [Y W U Z W [U Z
W W % M W W { ? S d] f S T Y e S e f W

% b Z Z S T W W e W Z e I a U Z W V [W W U Z W e [Y W W ö f l f l
e M f W [efa` ` ö Y W [e Z Z] l g z

6 [W U Z S` Y W _ S U Z F W W W ` W g W D g U] h a d B f e z 7 d e f
S` e d W g _ E F W W] S _ l V d W W W e U Z i [W W U E k _ W g z
< W W h a` [Z : W ` S Z _ W X M [W e ? W S` f S T W f h a` W W
S g X W d 7 U W W 3 g e S T W [e U Z W e f W W W W Z a U Z S g X W Z
f ö d _ f W E f a - z

% o S e f V g Y W W l g Y W U Z S g f i [W W [W 0 W S` Y W W S g Z
Y W Z B Y f i g d W W [X S Y F W E k _ W

%bZ ZSffWg SdTWfW{i eSYFW [ˈ efa` ˈVUZfZ[ˈ ž%bZ
i WWWW_ [di aZ^[_ = [ˈ aS` eVWZž

%d` eVZdg` YWöYWWW 7dSf{i _ W fWEk_ Wg` V
T[UfW [ˈ efa` XcdUZWVS` ž

EW Vbi ff[eUZW 3gYWY{ffW öTWI [ˈ efa` e9VUZfž
%bZ] W` W[UZ{ eUZ[WW V[W3gYW lg eSYWž%bZ
eVWZgdUZ V[UZ Z[ˈ VgdUZž;UZ i W- eVZdi aZ† i Sdg_
Vg` [UZf Z[ˈ YWS` YW T[efi g_ V[dVSeS` lgeVWZž 3gX
W W[fWV]fgWV3df g` VI VEW SdEk_ VHWI[eeW
adZaVaj ž7d]a` ` fV [fV W]g` S` YWZ_ YW[VW]eUZW
4V[W]Yg` Yha` 4a_ TWS` Yd W SgXV V[UZW6i dV
ha` W W9V[UZfehVZS` Vg` YW g` V9Vfß V [eeW Vd
9WS`] WhVIdVWZg` VWW: [ˈ dUZfg` YW [ˈ W W=Vž
ˈ V W > [VW [ˈ [eV]g_ ebdVWZžI W _ S` e[UZ
_ [f[Z_ g` fVZSfWi a` fVea_ g-fV S` [Z` hadS` W
ha` V[VW W W STW] W g` V[Z` _ i Y[UZef [ˈ W
9VbdUZ öTW V[WVZ` [eUZW 7[YWfö_ ˈ[UZ] V[W Vd
@VebdUZWV [U W I W W S[öTW VSe V[XeW V
g` Vha` ESUZ] W f [eb` SgVW] a` ` fV [ˈ efa` VdVW
W W=abXV i W[Y]gdE[VW]g_ W W XcdUZWVW 4[U
W VYca-W Vg`] ˈ W 3gYWlg WfVWZž

%zei ScdVZf [ˈ fVWS` fi VSe: ß YW{i eSYfWEk_ W
7d` ` Wg` YVScS` ž%bZ ` VWWTWV fdUZf[Yf V[VESUZW
eVZd i W _ S` [Z` W V[V8ö-W]geS_ _ WI[ˈ Wž;UZ
eVWV[VWV Vefc_bW žG` VhadS` W _ g- S_ ELZ` g-
V[W]g` YWZSgeT[W] W T` Sg ~ YS` l | Sd ZW T` Sgž6Se
[ef V W [ˈ l VZW V[W [dVWZž

%G V` ßZefW I{ffV d[VXV]i W-TWUZöd fVbca` W
_ [f VdUZi b W W

I [ˈ efa` g` V Ek_ W eUZaTW [ZdMFST`Vfe öTW] VW
3geYSTW[eLZz`VW i gdW [fVW W d eUZWEUzi g` Y
eVWV[ˈ ZVfe_ SZ1VW]lgYVWV, W 7-YWUZ[dlha^VW W
daSYdSgW 7[ˈ fabXW W EföU] 4dafI W I öcVW=βeW
W 4WZWH[ufackZ=S W aZ` W [UZ g` VVW WESUZd` Ž
FST`VWV

%6ad`g` fVWV FVW[ead[efV F[eUZXW]eSYVek_ W
%@VZ_ Wi [dg` e[_ HadIVVZW W W 9[ˈ _ [fž

6W9[ˈ i gdW` ZW] WaeW Bad WS` TWZV SgeŽ
YVWVZ[e]Wi β YfW eUZ VgdZ VW YVdβ Yf ha^W
DSg_ g` V efVWV [ZdMELZöeeW SgXV[W? WS`b`SffW
W F[eUZV SgXV eW W W 7U] VWV S` V W VBXöfI W
ha` 7[ˈ fabXZ[ˈ fVWSeeW ZSffVW W eUZ_ gfl [YŽ SeeW
4dV W i [W dIcaUZWV SgeeSZzI [ˈ efa` ZaT eW W
9[ˈ TWZV[ˈ V]W i ZMZ[V W W 3gYWT[U [ˈ ` Wg_
? gf lg eS_ _ W i g` V eföd fWSe i ^Y eUZ_ W] WWW
LWgYZ[ˈ g` fVZ@SUZVW W V]Vf dβ W` [WVWV]_ b
ZSffVW[VZ_ [ˈ V]WβgYW YW[VWV i SdW_ W] fVWV
b i fl ^UZi VS- WIZg` YdYi Sč7dTWS` ` YWZg W i W
W 7[ˈ fabXZ[VUZfVZVg` fVWgeUZ^ YW [ˈ V eW
eUZ`öbX[VW? SeeWSgUZ I öcVWV W eUZi S_ _ [WV
daSXdIWW LWYe SgXSgUZfW VSe hW_ gf^UZ W
=g` ef V eUZbdVg] f i Sč= W W V W TVWV ebdSUZ W
I adI T[e dVZd7-YWUZ[dlYVWV ZSffWž3` VW F[eUZ
^] eha` I [ˈ efa` I W i W]YZ[ˈ fVW[Z_ I ebdSUZ W] S` V
d eUZ g` V bSgeW`ae ~ W g` S` YWVZ_ W 9 W SbbW
VSe i [WSe CgS] W W W 7` fWVgdZ VSe S^YV W W
9W eWV DSG_ W Vdβ` Yž

%o [WVWVfe_ [f W W I i dVWgUZ hadI βdfeI XSYFW

I [`efa` _ [f WZaTWWEf] _ Wg_ VW >βd_ lg öTWŽ
fi `Wž

%@gd `S` YeS_ {l eSYWEk_ W%LZ Tl` \Mf TWVW
3VWf[hWž7e[e f eWZd] fVWES` fž

4VWV7d βZ` g` YWV@VgbcSUZW SdWleaXdf` WZS
YWadWž7deZaTeW VEUZöeeWTVWVWVWVd _ [f WV
WV W eW VVl SdW : β W eW EfoU] 4daf g` V_ [f WV
β WV VW = βeAVSTWTVgYVWV[eUZ öTWVWV F[eZl
g_ ` [UZ eZdVWl g_ öeeWž

%@W^ V3geYSTWef V\WWWöf\WVSgeg` Y\H V\ βdW
W%o [dYVWVWV@VgbcSUZWZdW VVfWELZ] ~i [d
YVW [ZdV\W8ad_ l V\WV\WZSTW i [dM i W` ` [W S` V
_ WZdS` WVe bdlUZžI W` i [dVS_ [f XWfYe` V i Wž
VW >WfW [Wg V\WbcSUZWS` l ha` ` WgV WVW W
_ öeeWž6g` [_ ef i SZdLZW [UZ S` l` WgV adWg
W` Wž9S` l [9VWVWV I [d_ WV W\WVFSYI adW
Sge~ _ SeeWZS llg: g` WfWžI [dH V\ XSUZW V\W
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7dI[- Zg` YdY]` eW 4daf g` V` SUZW Vll i W4[eW
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i VWW]i` ` Wz7e ZS` WW eLU` [UZf` gdg_ V|Vē|` `Ž
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7|` _ SfW3g V|UZFWZgeLZV|V|V|V|7d BZ` g` YVW
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9VWVW] ha` W] hW] Vzd] i Se e[W] SdWžE]ef V[W
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lg YwUZWz 7deWf lg] `Sdg` V bcdUzf lg a Wz6[W
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Zi dWZ_ lg g` V eLz[W S^W] i Se WfSYWfWfYTYZ
lgef[_ WzHa` LWf]lgLWf ` Yl [` efa` 4W Wf]g` YW
SgX [WfLz YSgTME]WZSTW ha^] a_ W dWzH [UZ T]
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fi dUZVfSgWef[_ WadTdSUZVfZTWfWfS` WfWf[_ W
eLzi [W] W W 3gyWT[U] ef^f SgUZ` [Uzf i W` VSe
? βUZWW` S^ebdSUZi [` efa`] S` fWw? S` ` ha_
EWw VaLz i g-fWw [Uzf_ Wz dha` [Z_ l S^e VS- Wf
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> [Uzf SgXg` Vl WfWf [` efa` li Wf]TS`] WUZWfW eSf
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VS- W Sef g` _ i Y[UZ i Sd W W I [W I ad W e Sge
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 ` [U z f V s e 9 W [d W W ? W e L Z W i e a` W W e W = W Z] a b X
 I S e V S T W Z W S g e] S _ I T W S` V l i S d S g e I ad W M S T W W
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Ek_ W Sd W W 3 g Y W T [U h W e f g _ f g` V l W U Z` W W
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i Sd [Z` TW_ YW] YeFW 3` S- S'e9WS`] Wh W T a W Z W
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XZ f W W Se, FS] fi LgdU] ZS'fg` Y W d W W W W Cg W Ž
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h W W Z d F W W W 9 da- W 4 dg W W g` T W W V 6 T W W E [W W Z S- f W
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Ek_ Wf[U fWSgX%S] a_ _ f BSca` e l eSYWfWg` V
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;UZ T[` HMFdSgWe_ S` ` Xdg` eM W 4'aU] ž6[WVS` lW
EsfVea^[_ 8Wf eLZ_ gU] bds` YW~ Wi [dV W W W Ž
eSUZW W W ž;UZ] S` ` ;Z` W eSYMI Wi [dV TWf[_ f
` [UZf _ W W eLZg` V YW W W eW li W` W W YgfWSfW
H[Ufadž4'aU] ` [UZf W W dWZefW 8SZ` WeLZ_ gU] [`

WVYS` I W Efd-WSgXgi VwW ZSfzE[VZSTW _ [dli W
6a^SchWbcaUZWz

I [`efa` eUFWi V[Xf]ZUZ_ gfi [YWEUW] VSgeWV
FSuZwG` V oT[W]UZWe[VBSca` d W[VW 4WfSY_ [f
WVesgT[VW: S` VeZd WwG` W[V^WVW [`W] ^W W
@af[I TgUZ W fcbZ

%M[VW]9WVWZM[SfW]g` YW _ W fWV %o[WUZ
Zi dMZF _ W] ^W W >SgeWb_ _ WYVW _ [f eW W
=SfSbgf` SUZ;Z W YWUZaeWz;UZ ZSTWZ_ W WöUZ
f[YW]Td[M]g` YVX6dWVWz;UZ eSYWZ_ I [UZi ödWZ_
VSe6 [`Yi W VZ_ W i W` WV` aUZ W _ S^fgz

%di Sdi aZ^W i W[YhW] _ fi W[W] [UZ]g W
: [`dUZg` YVZW Vgd W eSYW [`efa` ž

%d `g` ~ VselVfW dUZ[YW]9Vf `WWE[W [UZ
SgUZ1? gfi [^YW] ^W W >SgeWg` YW e` Ve[MS^VWVW
STW]S` 7[X]_ S` YW WTW]Z` Wi SZdS [Y` [UZ] E[W
ZSTW` [UZ]eS` W[V]_ =abXS`eV[W]bZW~ g` VWW
=dW` Sföd[UZ]I [eeW E[W]i Se _ W] ^W W? BVW
^W fWES_ eSYMS` ZSf S`e[Zd8Z` ^W W]W9W W]Z
eZS eSge gY` SUZ 4W]ZS_ eW _ SUZfW[E]WfSZ^e[UZ
_ [fli V[S` W[V]? BVZW Sge W[V]WZwG` VZWVW[V]UZ
WVYS` IW @SUZ_ [fSYS` V[V]WVW W] W] i ödM[Y
SgeVZWVW? S` `W[E]W^YfW [Z_ li V[E]g` WW`S` Y
_ [fWVgdZWWI S[V]g` VS`eeWSUZ3_ WZS_]S_ W
oT[W]STW e[W]Z` W[V]Ba`[I Vefd[V]

%oScg_ ZSTW e[V]WSe YMS` I{ XSYfW [`efa` W
i W[YhW]ö žBSca` eXgZdfdg_bz[V]WV]Xdf, %oW
Ebd -^` YZSfVW]S` `fi VS- W[dW]i [W]a W]V]bdf8W]Z
VSYWfi Sd~ W]a` `fwg_ 4V]b[W_ [fVW] 8S^eUZ[d

>VWweeS` VSd/[HmV/VZl g_ hMS` YWW <SZde[UZ
g_ ` [UZfi W[VWIS`eli S` l|YBcal WfWZi ZfZSfz;` YS` l
AlW [WXS` WWZVW adWeba` fS` V6W a` ecf[a` W
eSffl TVWWWV[V3d[VWISgeVW8STd] Wg` V4ödæ
ZMSge_ SdUZ[VWVg` V_ [f8SZ` W VgdZ V[WefS-W
laYWlg_ W 9da-W4dgW[VZdV6S`]TSd] WfX6dVSe
` WgWYöU [UZW>VWVlg_ 3geVdgU lgTd` YWV_ [f
WV g` eeW W V6V8öZdg` YTWUZW]fZSfz: [WZ`YW
W [YWWVWVYöf[YWLSZ`W, >VWVe_ [ffW-}

6WESf %g` eW WgWYöU [UZW>VWV]VZdV WZ
_ S`ei [WV7ei Sd] ` VVfWLVWV W >[V]` YeSgeVdgU
W? [` [eVdg_ eX6dOTW g- YWadWZBSda` d W6W
3gX W eS_]WVgdZ WW8S` XdWefa- YWV fi adW
i Sd eS- [` W W LgefS` Vha` YZ` WWW 7d ef g` V
TWZdVW>S` YWVWWSz7dhW aUZfVWVLSZ`W` [UZ
lgX`YWi SdeUZSTWVWg-fi VS- e[VdWVW [WV W
9dg` Vlgd4WVW[Yg` Y TafWz7dZSffWV WYda- W hVZ
dZ_ gfl fVBXVZVW adWZa fi V[VWVWfeT]elgd: B` W
_ [f hV aZ`fW FSIS] S` YW`fi Sd? [f WVFSIS] dcf[a`
ha` Zg` W 9dS_ _ [` WVI aUZW]a` `fW_ S` eW W
BXVWVWV T]elg_ DS` VX`WZl [` efa` dSgUZfWV W
H[UfadZ [YSdVWV[VWV eadV3f[Yi SSYdVZf Z[Vz6[W
` WgWgfWg` Yi gdWVWf_ adWVX`Ylg` VVZSffWgd
` aUZ hVWV [YSdVW öTdYz8ödWV 3gYWT`U] ZSffWV
eW VAZdW W WfXV fWV 9V BgdZW hVUZ`aeeW
g` V`SgeUZfWV DWVUZi S`1 WV Sge WV FVWV ead
VdS` Yz7eeVWV[UZ ZMSge VS- eaYsd6W a` ecf[a` W
eSffYVg` W ZSffWlg_ W 9da-W4dgWVX6dV[W
7dZi Zg` YWVUZa]a`SWVf[a` SgXi S` l|Y9dS_ _ [`

WdI aLZWgVS`]Wz6STiM SdWfYwVl ea oTWVW
 I [`efa` lTVS` `fVWVW i adWl VS- V[VDSf[a` SgX
 li S` l[Y9d_ _ V[W aUZVZVSTYVWf i ödMVI Sd
 W_ iY[UZi VS- V[W>VfVWSe` SUZ` gdh[Vg` Mi S` l[Y
 Efg` Ww dZ`gU Wi ödW1-Sl e[VaZ`gU fWVzBSda` e
 dZ`gU fWV_ öZVad _ [f Ww6g_ _ ZVf W VwF[VWz
 6Se SgYW`aeW9VUzi bXS_ @VWf[eUZ dZ`gU fWV
 X` Sf[eZi VVWwZS `Uzi _ [f WVT` Vi öf[YW EgUzfi
 VVW SgeX` V[Ylg _ SUZWi lg VVg` l[VWV g` Vlg
 hSbadelVWV WVTVZSgbfWi a^fVWVWV` YWV aLZW
 ZSTW[VDSf[a` VdV-[Y9d_ _ TVZSYWz3gUZ Ek_ W
 dZ`gU fWV~ S^VWV YeSgXW VVa_ b[l[VVWdITVWV
 VSeLi [VWV]WZl` W eb[VVWES` VVWV` SUZ S^V
 VSi SdWVWVWl[YVWVWV 9WVZf [eZSffW
 ;_ _ Wf aUZfi `fV V[VVWVWg` VVWVESf[ef] W Sge
 VV FVWVead;_ HMYVUZlg hVWV` YWV <SZdYST
 W_ VZdlg WwVl _ VZd=^VWg` Yi _ VZd: BgeVl _ VZd
 ? iTW_ VZd=aUZfi bXV VZd: WV SVAJS1_ VZdELZl W
 _ VZd8gYl VgYV_ VZd4öUZVl _ VZd@VgVWadWV_ VZd
 ha` S^W Sg-Wl=d`]ZVf HMTdVZWg` VI SZ` e` `ž
 <SZdg_ <SZd ha` W VV? [`gfWl gdS` WwV WVWVW
 S^WVW W dSeWVW 3gXf[VZi [WadZVlEk_ WZSffW
 I [`efa` VVf eWV W >i WVWVd W g` V_ S` dZfW`
 VV SdV`aeW EbVWVWV SgXWV F[eUZ ZVg_ hi aTW
 VVW V S` YW EfdVWVlg VV W ? gefVl SgeLaYHa^
 ;` Yd_ _ VSUZVWVöTWV[VWzke[eUZVWVZS WZVf VV
 >VWVe` SUZžI SdW eUZa` [_ Vle aYW/VWV1: SffW
 VSe7eeW [_ Vle aYVUZ_ W] f1 7dT[U] fV[eUZ [`WV
 =S` fl` Vg_ ž7l` ` [WdYVWVWV3 Yf ha^VDSg_ lVWVW

I B' VVgdZ V[WVbZdg` Yg` lBZ[YWd>VWVdEZ_ gZ
l[YYWadW i SdWzHMTVg'fW' VS^f[eZVg` VžfgZ/W
ea WYlgeS_ _ WYVbUj ft VS- _ S` e[UZ [Efl W_ [f
VW 7^WTaYW TvbZfVHMTaYWW9STW l S_ DS` V
STYVfa-WV9VUZ[dH YchTW V-W4VZV SgXS^W
8BZVW XfYB lWM ELZ_ gfl [` VVW Ebdg` YžG` V
W' d3W[VUZV9VgUZ öTWS^W l lgeS_ _ WYVWfSge
dZVZVW 9[l_ [Vd V[YW =S VVWZf_ VS^f[eZ
dZ_ Wj WWW 7[fabXg` Vg` eSgTW = VVW ž_ _ W
dVWV[UZ [? SYW g` VSgXW: Sgf W BchVf ~ VSe
9VbZ1g_ W SeTWchYW i adWVlg eW l i adSgX_ S`
W 3` dVZfZSfV Li SdZSfVW] W Wd` ` Vb` YS` W Se
i VWF[US` VVZVai W Vd[eUZ YWSg lgcU] l gW ` W
hV_ aUZfVZSfVW [W [d [UZ YWgYlg VEW YWVW
ZSfV_ S` ` [VeaU] WaVW G` fVZaeWTVVW V[W [UZ
ha^>i UZV i SdW i SdVSe? aT[Qsd [_ WdUZSVZS
g` V i SUj WY YWVW i SdW V[VL [_ Wg` YWöYVW
YVWf V[VG` fVbG` VISZ` öTWS^f V[W BgeVhVZ
S^W VSe 4daf Vg`] W VdFVW VDSdfff Vd=S W
dZSgVZS l V[VL[YSdVW l g i W[Y YWVWz@[UZfe
i SdT[^[YaVWdVZ^UZ hadZS` VV YWVW Sg- VVW
ek` fZV[eZV 9[žG` VaTi aZ^_ S` VSeS^W_ [f VV
Â fV VVW` Sföd[UZ dZ[_ WVW bS` V i SdW [UZ
W LVVZV VS- V[W /UZfV[W Sföd[UZVAd` g` YVW
6[YVW] a` fW i W` W W dVVeSe: W i VZ fsf
TVVW G` TVZSY[UZ] V W ELZ_ gfl g` V VV ? S` Ž
YV W W VaeW I [fV l V W hV 1fW EaU W V W
` [Wg`] fa` [VWWW 8SZdföZ W V W] S^W I SeeW
Vd eS` V[YW EVVW V W d U W W W L[YSdVW V W

]õ`ef^LZW @SZdg`Ye_ [ffW _ [f [ZdW hVMBUzf[YW
9WUZ_SU]II Sdg_ WbS`V_ S` VSeS`eag` WfB^LZI
i W _ S` ` [Lzf W`VS^fVWfWd` `Wg`Y|^ e[LZfdgY
VS- V]W6[`YWW_ S^YS`I S` VVWY/WW i SdW1

7deSZ eLZ`aUZ W_ S^|^ VV=S`f|^ Wg_ žSSef`VW
W]WVW SdZB-^LZI g`Vi B^VgUZB-^LZYWVW i W
VW SeS` VVWSeWYV^LZ d_ [YWT`SgWFd]^ [Yež
S`lgYWVWZBfVZ_ S` VVW 7` VVWDSg_ WeS-
S^W S` W`W F[eLZW]^WVW`W =BXW_ W]i ödM`Y
BZ`^LZW? S` `g`Vfd`] eWVWSeW`S VVW aTVW`W
ÂgYW SdM i Z` [eLZV^U W`ha` W`VWVWgdS` VVW
i SdVZi [VWVZi VSLZVW [`efa`I]a``fW_ S` YSgTW
i W _ S` ` [Lzf g_ eLZT^U fVMS- W`VW`ha` VVBSdW
S`e;W`ba] `S_ [WVW]i dbW^LZW Fkbge~ Yd- YW/SUŽ
eWVW_ ge] g`f eWg` YW? B` Wg` Vha`^Tge^W? B^UZW
T`a` V`VWVWVSW`ea` `WVWdg`fg` Vead`ae~i [dž
^LZ YST`g` VVS- W`eaYSdhadZVWVZ;` I [d`^LZ] Wf
i SdV[W` VZdSZ^W? WeLZW[_ >g` affWeföflbg`]f
@č# eai Wf W`VWVWdVWV]a` `fW] W`I Td` Wf g` V
ZB-^LZž7ei Sd_ W]i ödM`Yi [WVW] B^VWd^YVfkb
[` W? [`eVWVW^TWZS` V` SZ_ ,] W`Wg` fVWfW
? WeLZW V[WZa` [`g` YW <SZdW] adbg`Wfi gdW
_ [f] gd W 4W`W dSdZW]SbbWYW 4W`Wg` YW`g` V
YWg` eWVWg` VgdZVd` Y^LZW 9W`LZVW _ [f eVZd] Vž
` W 3gYWž6 [WVWfkb eLZ]W g` fVWVW: W`VWZS` VV
BSdVW_S_ TW`W]g YWVWZVž

6[W`Wg` YW? [`eVW]g_ eXod^TW]g- W`VWV [f
W`W W`WVW8S` SdWefa- g` Vi gdWVgdZ 4WZ_ ge]
STYW efzBSda` e] VgdZ VSe LSZ`W`Ta_ TSdWV Wf]g

hSYW 4WW[eWg` Y SgXWbffWl `SZ_ eW VBXWWSge
WW ? g` Vž

%6Se? [[eWg_ XdOTWl g- Zsf V[WW-SZdi SZčŽ
ZS [Y9da-WYWW[eWl eSYWW_ [f W W i [eWWW
=abX[U Wž%4WVW9WWWZMfE_ [fZi S'fW-g` YME[W
ZSTW` [Uz f gX^YW bSSdDSeWl [^ YW V[WE[W_ [d
ST'SeeW]i` `fWk{

%@ [Uz f W W eSYW [^ efa` ž%bZ TWöfl WeVW[eWf
eWZeI aLZW V[WWVW- [^ YW

%@UZ ea ~ [UZ VSUZFW gd [UZ i a^fWE[W_ S^ XSYW
S'fW-g` YW

%@gf _ [d^W{ eSYW [^ efa` ž

6[WcgS] WWWfL _ Wba_ @VWf[eLZi V[W BzdWVWf
? Wg` YW? [[eWg_ ehacbTWVZWVlg_ ELZi V[W
YWbSUZfi adWwi Sd ZSffW [WW_ [f ha^W>SgfeBd] W
'aelg^WW TWa` `Wž3ge [dWWW W 9dg` WW_ g-fW
I [^ efa` b'ifl [UZS` 8cBg BSda` e_ [f [ZdW I geLZWSSd
g` VWW EFSgT [^ [ZdW =g_ WbS'fW WW] Wž;` li W
<SZdWi ödW [ZdW- [Wle[VWVWV9WS`] Wba'l W
Wg` l[WVž8cBg BSda` ei ödWVsbadeWfi WVWžEk_ W
i ödWVsbadeWfi WVWžI [^ efa` i ödWVsbadeWfi Wž
WVžA14dWi ödWVsbadeWfi WVWžBSda` eVSYWW
i ödW [VsbadeWfi WVWž6Se.SgYW^aeW W W_ [f
WVcgS] WWWfL _ W ödW [VsbadeWfi WVWž6[W
] W W] BVbSd[YW? WeLZW V[Wa TVZWVgdZV[W
'Stkd' fZ[eLZW9B YWW? [[eW]WZgeLZW~ SgUzeW
i ödW` [VsbadeWfi WVWžG` VVSe? BMZW_ [f W W
Vg`] W : SSd VSe? BMZW Sge Wl>[fVbSfgcSTfWg` Y
~ SgUZ eW ödW [W S'ehsbadeWfi WVWž7eLZ[W[Z_ f

S'ei [eeVWV[ef'] f[Hi Wl_ [fVWV >VWVSha`]a_ _ W
g` Vi Wlhw [UZfVi WlWi ödWl W _ S` SgUZ` [UZ
aZ` W V[WVWVSYW]a` `fWl WZVWSS] fadVWV[UZ VSe
ØTWVWV WfeUZ[Wž

;` V[VWV 3gYWT[U eUZd] WZVW|YSgeeW VWFdžŽ
_ WlVWgX6Se? BVUZW S_ @VWV[eUZ ZSffV[eUZ ZS`T
g_ YWdVf g` V[Z` S` YW[U] fž7ei SdVSe? BVUZW_ [f
VWV Vg`] W: SSčE[VeSZ [Z` _ [f W V W hWVfaZ`WW
EWWT[U] i STW_ [f_ W] i öd[VWV7[` Vd` Y[UZ] Wf S` ž
;` WV ? a_ Wf [` WV [ZdW3gYW eUZ TWV WVV
i S` VV[eV[eUZ i [WVWSTž

I [` efa` TdSUZ WlEIZi W- SgeS`WBadWž7[` XgdZiž
TSdWELZdM VgdZi gU fVZ žLi Sd[VWVWSe f eaXdf` SUZ
STWWT[VWV WSYWVG` YW[-ZMf] gcbU žI Scg_
TWVTSUZVWV[eWZ` 1I Scg_ hWV`YV[eWZ` VSGV V1
G` YöU [UZVl V[eW]a` `fWV[eUZ` [UZf Wfe[` Wl aT
e[VWVWVfTVWV W =a_ _ WS` V[VWV F[eUZ YWVWV
ZSffVWVWVf` SUZZWVWV[WVW i Scž3gXS`V83`VZSfW
eV[eUZ YWVW i BZdWV WlLi Vž? [` gfWž S-žEWž
Vg` Yg` _ [ffWVScZ[fW[Z` YWVf aTi aZ`VSlg] W W
li [YWVW@afi WV[Y] Wf TWV S` VžEWdi SZčUZW [UZ
ZSffV[eW` I [d [UZ] Wf V[WVTe[Uzf YVZSfH YS` l YWSg
Z[` lgZi dW g` V e[UZ VSha` lg öTWVgYWV aT WlSgUZ
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EW V[WV9WS`]WV S_ [Z_ i [WV hWl gf[UZ i Sd
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9VWZdha` S`W VScž7di g-fW [UZfi i [WS` YW[eWZ`
eUZa` S` YWVWZSffVW[VWVUZf [_ WZ[` X` X? [` gfW

g` Vw_i Sd_ i Y[UZI VS- WleW 9W[Uzf` [Uzhi ^[Y[` Ww
9W/Sf YWZSFZSffV7ei SdeUZdM ^[UZ YMSZd[Uzi eW W
9WS`] WeZi VwVlg` SeeMi W _ S` TMM Ww Wz
^[UZWHMS` eSfg` YaWw[` DVUZI VwVW WFWW[ead
i Sz6 [VW[` YefW` W [Y] W[] a` ` fWw W hMSfWz7[`
` Ww eW LgeS_ _ WlgU W W g` TW/g-fW3` YefT[U] I
V[V0 WaZ ZW[hade[UZi[lg_ gd_ W ~ S` Ww i SeWw
HMSUZf Ww G` YW i Z` ^[UZW W W W] a` ` fWawW
VS- _ S` W Selg hM W W ZSTW7[` W g` bSeeWwW
3geVdG [_ 9W[Uzf lgl VwV/g_ 4Wb[Wg` YBGIY
VdV lgeUZSgWi W` W E[W hM] o` Ww i gdW i Sd
WwW S` e eZa` S` e[UZ W efd Sde HMMZ Wz7e YST
eaYsdW @W bcdUzi ad VSXd 9W[UzfehM W W Wz

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H[VW[Uzf hM W Yfve[WZ` ` [Uzi [d ^[UZi aWwW i Sd` gd
W LgS` Y VS- e[W i VFSWZ[` fW W S` Ww ea` SZW a`
[Z_ YW W W ZSffV W W [Y Sd W W SdSgeYMS` W W g` V
W V W e W hade[Uzi] Y Sg XW F[eUZd` V7di odW e W SUZ
W W 3d W W Yd Sg UZ W i W [li [eUZW` [Uz W W F S I S]
Z W SgeYMS` W i Sz E W di SZ d UZ W ^[UZ i Sd V W B W ea`
S_ @W W f[eUZ W Eb[fl W W W 9 WS`] W ba^l W g` V
e W di SZ d UZ W ^[UZ i Sd W [` Vd W FSYW [` W W = d` W
W > [W W [` [e W l g_ e~ ST W W W L [Y Sd W W W efg_ _ W
Vgd W_ S` ` [Uz h M W W Ek_ VZSffV W 4` Sff BSb[W
lgeS_ _ W YMS` fW/g` V [` V[W F S d Z W W W W f z B S d a` e
ZSffW [W W l g eUzi Sfl W S` YMS` YWz

%oSTWUZ;Z W W W W ^[UZ W l S Z /fl S f W l g` Y W e S Y W
W [] [UZ W i V Se B X W W_ g` VeföU li [eUZW W W L S Z Z
` W l %o[W_ W W W W W Ebd - ^` Y W W DaU W W S f W

7ei SdhadVdM/SZdWz3` W W Vg`] W3TWM [W W WYWEVfWefS-W Vd@BZWV W W WYch-W 4SZ Zi X/E/WefS` Vg` i Wf ha` W W Fad Wg` fW W W Efd-W/SfW W/VW gd ebbd[UZW > [Uzf YSTz E[VZSfW W g` Y W eVZdeSd Y W UZ [] fW 9 W UZfz 7[W W UZi Sd W V W UZfeTW S`g` Y_ [f [ZdM SeZ] WZS WI W W Se_ [UZS` laYg` V V W dW W W dafW > [bbWz6 [W8dSgW ha` W W BScfW eZ [] W e[UZ ` [W 7ei Sd` [W S` V ea` ef SgX W W Efd-Wg` V] W F W W ead E[W S Y W i W 6a^Sč; UZ ~

7ei Sd_ 3gYWT[U l g dZi [W Yi W W l geZdM Wz 7dbdWfW [W8` Y W SgXV [W W UZ` aeeW W 3gY W g` V h W e g UZ W W Se4 [Vi [W W Z W Sg X g T W UZi i dM V Se [Z_ [e W W 7d` ` W g` Y had UZi W W 7dh W W bōd W W Xef g` ōT W [V [UZ W H W S` Y M_ [f ha^W Ef_ _ SgX S` V W W E UZi S^g` f [W W ad V Z [Sgd geZdM Wz A W W [f W W = abX W W V [W S` V l g dW W W W F [eZ g_ l gž i W W g` V V SeF [f W X- Sge W W 8 W e W l g e UZ` W W W ~ [d W W W Se9 W S` feS_ W > Sgf W a W W E UZ_ W Z S W l g fg` l g_ V [W e g 3 W W 7d` ` W g` Y Sgd g` i e Z W z

6 W e UZ [_ e f W 8 W V _ [f W W _ S` W l g fg` Z S f W ōT W W W W i Sd W V [W W W W @ W W W z W W 3gYWT[U] a` ` f W [W ` W W e b S` ` g` Y e [U Z [W W l g - W W E k_ ž bfa_ h W W S W z; Z_ W W ? S` ` W l S` W W W had W b S S d l a U Z W Sg X W W Efd-W had V W W S` Y W i Sd W Y S` l S^f B Y [U Z Sge V Z W W W ? S` ` l W B S c f W [f Y [W ha` X` X g` W d W [Y a W d h W [Y - S Z d M l [W U Z Y ch- g` V_ S Y W W W B] f W f S e U Z V g` f W l 3d ž E [W S d W W b S S d ? W W ha` W S` W W W X f Y W W W S e V [W] V W W U Z f e Z B` W

W? S` Wbifl [UZ[] d_ b S WlgUg` YWYWVZ6Se
YVZVZSffve[UZ` aUZ W_ S^YWSW` W 3gYWT[U
i [WZaflS`ee[V S` W S` W had[V W] a_ _ Wi SdW, W
i Sd` gdW] gd W L[ffW l W LgU Wl ea dZ` W i [W
VSe= [U W W W SafaSbbSdSfd STWa WTSdUZda` [dZz
7dWd` ` WfV[UZI VS- WVS_ S`e YWSUZfZSffW6 Wsd_ W
FWXV[ef YWVWV` G` V VSe 7dUZdM] WWWWsd` i Sd
VS- We[UZ Zi UZefi SZdUZW [UZ.g_ W Wg` TWg-fW
HadS` YZS` WVV6 [VS^Wd -fV0 VSZdi Sd [ELZ`SX
lg ebdWZwZ Eah[WVdi g-fWYST W] W W? i Y[UZ] VV
e[UZ VSYWW [dWVi [Wg dZöfl Wz

7deUzi b W3fW g` V XgZdXd f lg dZdM W,

;UZ Y` Y_ [f [ZdVgdZ VW Fad Wg` V öTW W W
: [fWZaX] W W_ 7dYVZa- YWWW= öUZVZ3`
WdI S` VeS` VW 4Wf g` VSgXW F[eUZ W VVZd
f[VZVSTYVUZdSgTWV S_ bV E[V S`

7di Sd` Whi ež7dZBfV S_ [VefW SgeebgU] W_ i YWz
LgYVUZ_ [fVW8Sg [VV= öUZVWSUZVW S` = SFZV W
eW W8SgžI [` efa` i SdhVZVdSfV~ aVW VWW S`e
hVZVdSfVYVWVW-hV gf[UZi SdVW` aZi WW eah[W
[Z_ TMS` ` fi Sdi SdeW V8Sg` [UZf VVfadIWz;Z_] S_
W hadS`eSf_ WVi [WVWVi Sd_ W ef[U] [YW9WgUZ
[` WVVWVW[VW = öUZVW W 9WgUZ SgeG` YW[VW
dZ_ gfl [VW V BZVg` V_ [eVSTV T]^YVW BSd6_ l
STVWV aUZ hV aU] W V W W] W V8Sg ha` W VBSdW
TWöfl fWV S`eBSd6_ l SgUZ ZBfW S` e[UZ VSeöTWZSgbf
` [UZf hadfWV] i` ` Wz@gdV[Vbca W TWöfl fW BSd6_ ž
;` eW VV hadfWg` Yi SdV[VW9WgUZ g` fdW TSd_ [f
G` lgUZf hV Vg` Wz

3'e W_ [f V W 8c g YMS` YWi Sd ZSff WSe eW W
 WfW 8VZfdff eWf g` YMCZdli W<SZdW TWWgVZ6 W
 G_ YS` Y_ [f Bchf [fg W W i Sd` Sföd [UZ hW Taf W STW
 W i Sd W W W H ad UZ d W i V W_ S` Y W W W f ^ U Z l g
 öTW f W W i SYW] a` ` f w 7 ei Sd Y M Z d [U Z i ST W W i Sd
] W W B` Y W W W Z W f S g X > W W g` V Fa V ž? [f W W B ch Ž
 e f [fg W W W W [d Z f l g i W W W] a` ` f W [e l g X` X S Z d W
 Li S` Ye S d W f e S Y W T W W g f W - S T W [U Z f _ W d i W _ S`
] W W i W W W H M f a - T W S` Y W Z S f f W G` V V S e i S d d W Z f
 W X U Z i W _ S` ` g d h W _ W W W] a` ` f W [` S Y d S` f l
 W S b b f l g i W W W ž;` W W B d W W W H [W W W i [_ W W W
 h a` 8 c g W i V [W W W i S d W e [U Z l g h W] S g X V ž? S` U Z W
 i S d W e a Y S d X d W V S S e L Z W [` l g Z S T W i W W [U Z f X d
 V [W B a W T W f [_ f i S d E f [^ e U Z i W W W W W W W W S d W
 e a Y S d V l g i V [W B a e f [f g [a` l g X d W i S e W H M f [^ X d
 ;` e f] f W W [W e [U Z ` [U Z f h i ^ [Y g` f W W c b U W ^ W W W ž 6 [W
 T a - W B g e e U Z i W g` Y i g d W W [U Z f i [U Z f Y Y W a _ _ W
 e a S` Y W e W ö U Z [Y g` V X M V ^ a e T ^ W g` V` g d V [W 8 c g W
 W W g` f W W c b U f W g` V h W S U Z W W = ` S e e W S d S` f W ^ S Z Ž
 _ W ž 7 [` g` h W W [U Z ^ U Z W H M T d M Z W V S Y W W i S d V [W
 G` l g U Z f l i [e U Z W B S d W [f y ^ W W W ž 6 a U Z a T i a Z ^ V [W
 S g U Z l g W W H M T d M Z W Y W i d W W W W e [U Z V [W B` Y W S Y Ž
 f W [` W W Y c a - W E B g T W g` Y e b c a l W e W g` S I B` W W [U Z
 d Z g ^ [Y T W S` ` f W e a] a` ` f W _ S` e [U Z V a U Z ` g d e U Z i W
 h a d f W W i V S - W W W W Z W i [d ^ U Z h a d] S _ ž

6 Se L [W W W B S d W i S d ` [U Z f ` g d V S e L g e f S` W W a _ Ž
 _ W W Y W 4 W W g` Y W l i [e U Z W ? B ` W f g` V 8 c g W
 l g h W Z [` W W i V [W e [W h [W W U Z f ` [U Z f _ W d ö T W W W
] a` ` f W ž; Z d W [d ^ U Z W g` S g e W W b c a U Z W W B T e [U Z f Y ` Y

VSZ[I WW eWgVWV3] fS^W8dgVWg Wf] ^VWwz@[Uzf
eaeVzdV[W[VWVSeh[W_ VzdV[Wdaf[] i gdVSe8WV
TVdSUZFW eai aZ^[] i [Vsg-WZST Wd7ZV3^W7ZV
dZ[VWg`YWli [dZWBSdFW [fY[VWV_ g-fWha` VWV
lg V[VW Li W] SgXVWVW =a_ _ [e[a` YWVZ_ [Yf
i WVVg` VV[VWVWVZ_ [Yg` Yi gdWV aTi aZ^V[VWV
9dg` VesfI ` [VWVf[UZ XfYVWV i adW i Sd~ [_ W
hV V[VWV i W VSeXSY[UZVBSsdVW7[VdgU] _ SUZFW
] i dbW[UZ lgV[S` WdZ[` YMaYW lg eW ž6 W[VW l[Y
S` W] S` ` fVLi W] W[VW: Wsf i Sd=[` WdI g_ 6 [Wef
XdV[VBSdFW]gdI W l g Td` YWz6 W9VUZVZfEs] f
eVef ZSffVSe W Vg` TWVgVWVg` V VUzf S` dUZ[YW
ESUZW g YVWV i [VWV = ^ef[VZ3gUZ VSe i gdW [W
Vg^U[SgeYWdbU] fi VaUZ SgX[` V[d]fWV V[WVVWV
BSdV [fY[VW ha` gYVWV S` W YW b ž7e YST eaYsd
AdS` [esf[a` Wi [W[VWgYVW^YS YWV EWgS^fBfi V[W
XdVSe ha^] a_ _ WVLi ^[ISf TVWV9VUZVZfVW V Ž
fdSfWz3^Wf [` Wdlea^fW VgdZ] ö` ef[UZVWVgUZfg` Y
/=g` efe_ Z[W VSe[` Wd@VebdSUZVYVWVf g` V[
efSS^UZW3` efSfWYda-YMaYWi W[VWZl [` efa` i g-fW
eVzdi aZ^ VS- V[W` [Uzf YS` l W ef YW V f i Sd STW
Wbs-fW g WdS^YW V W ; W^aY[VWVBSdVz6 [W
BSdV[hVgUZVWSe EWgS^WZ^STI gfi fW aWdVaUZ
lg hV[VWV g` V[` VW ELZ_ gfi lg l[VWVz7di g-fW
` [Uzi i Sg_ VSe ea i Sd STWV eUZ[W` Sföd[Uzi VS-
W ea eW ea^fVzG` V eai W V[VWV[SgW TVdSX i SdW
V[WVW öZg` YW WdBSdFW i V[VWVW Vd^YdVUZž7d
VSUZFW [WV[S` = SfZV[Vž7e_ g-fW aZ^` Wg l[VW
~ Xef VKSZdZVWV l eV eV[UZ YWV fZSffWz7ei Sd

_ Wj i öd/Yi [VWVWVS` e[VWSUZVZ7d]a` fVSWVS` Y
hVWVWV VS- WöTVZSgbf hVZV[SVWVWVW i SčE[W
ZSffW` gdg` YWZdX` XVZ` ? a` SFWgeS` _ WYVWVZ
6[VBSdVWg`VWVW V WELZVWg` Y TVöd adVWVSTWV`
83`W] [` VVaeV7ZW V[Vf dW` g` Yž

=SfZVW` W SdW` Yca-WT`a` VW? BVZVW ha` eVZd
YVSWV: Sfg` Yg` V_ [fZVW[VUZW4WVWg` YWZE[VZSffW
W] öZ` W SVVZS W9W[VZf W 9W[VZf VSe`_ S`
hVWgZfi Sd[VW`lg` W WVT[e`_ S` ZVWgeS` VVS- ea
Ygfi [W[VZfeVSZ]` fVWfW fVZELZa` eVZdTS`Vi BZdW
eW W7ZW SdVWlg` WV3` e[VZf YW` Yf~h[VW[VZf SgVZ
`gd i W`W[VWVWsgW] S` `fVS`e V[W` VVW S` VVW
? WELZW -1VS- e[VWVef]YVSeVö`_ efWVW i Z` [VZefW
g` V`VWfW WVi Sd W W VVWVW VVi SčE[VZSffW
] W W9WS`] W_ =abXWV [VZf W ELZ`SYi ad V W Vž
eWi BmVg` V WYST] W W 4i Vef` ` I STVWsgVZ] W W
WV[VWVW eW[VZf YWVWZBfW W V[VBSfWVZ`
[ZdSg [eVZV7dYST[Zd_ ef`^W V W Eb[fl`_ S`_ W%[W
S`fVBS`ffVžG` V VaVZ ZBfWVW_ [f [Zdl geS`_ W V W
] i` ` W i W` ` [VZf ~ V[W7daf] YW V W i BmV

EaTS`VWV[VWVZdVWVZ[VW e[WgdVU] lglgU Wg` V
lg` W SdWZi W`_ S` e[Vg` Sd` fV SdV W V W SgeatS`e
g` Sd` fW` S` W W a1bgbbVžG` V eVWes` W V W VZSffW
WleaSdi W e[VZ` S` e[VZbdVWVSe9VZ1S`efa-W
e[VZ` YVZi V[V]Y_ [f S`^W = dš ha` e[VZi WZE[VWSY
_ [f YVZ`aeVW 3gYW VSi W W i [VWf dVWVW` aVZ
_ [fVWVWV ea` WV` ` gde[VZ X6VWVž 7ei SdVg`-Vef
Zi` W[V[VZ g` V` SUZ W VV V W V W V W V W g e[VZdV] [VZž
3TVWVefVS` ` ZBfWVW V W V[VYVWVZVZf_ [f [Zdl geS`_ ž

_ Wlg'WWi W` e[Ve]UZVSZ[` YW[]YfZffW]VS- WW
Xde[UZ T[VWZ3TW]_ W]i öd[VW] V[eW]VZ fWVWSW
=SfZW[` WSeSTZ[E]W_ g-fW` SUZ [ZdW]3` e[UZ]i W
[dWV_ i Y[UZ] W = [` V]gdI W Td` YWzEa ha^1aY
e[UZ]W[V]hadS` Yi V[VZ]` YS` l dWV_ B-[YW_ S`[` W
I aUZM W W` [UZ]YASWg` _ i Y[UZ]i S[e]Vb W[VZ]
eaYsd_ ? adWVSdS` lg W[` W S'eS` W SdVSeS`
WV T[Vd]WWW3TWWYMS` g` V` [UZ]h[W]eWi W W
Vgd V[e]VZSffWi V[4W]VZ` g` YWVSXd V[W]VZ[W
%& g` e[V]4Sik W] W{l g` V[V]S` W[V]g` e[V]B [UZ]
YWwöT[V]W[V]BSd[V]W[V]W^W[/S[V]W 3geVdgU ZSffW
e[V]Sfe[UZ]UZ YW[V]gUZffz4S`VeZa` Wfi [U]W[V]UZTW
I [` efa` W 9WZ^VZd[UZ]W]3` Yefi W W[V]W
FSY` SZ[V]3TWYöU [UZ]W V[e]W]_]W = [` V]g` V]g
YgfW>Wfi Sde[W]h[V]S` W W W H[V]gUZSgXgYWZ
G` VTS`VVSdSgXY[` YW e[V]SgeW]S` WZ

I [` efa` e[V]XfVzi d[IS]i [W]W[V]d W[e]W W 8WVZ
ZSfW]g` VVS` ` eUZdW W i V[V] [` VSeFSW]gUZ,
E[W] Sd[e]UZSgX4W]g` VeaXcd]aZ` WWW[V]hd[V]
d[V]g` Y dS` V[e]W` W[V]Y W e[W] STdZV[]UZeW
I V[e]W]W]S` e[UZ]had[V]W]S` ` l [ZdW]DaU ZaUZz
;UZŠ

7deSZ e[UZ]i [W] [` W] fcbTW>S_ bW[]UZ]e[V]W
g` V ebödfW[` e[V] W]@SeWWW 9W]gUZ` SUZ I S` l W
g` V I [^[Y W BSdö_ ž;` e[V] W : W] W e[]W 9WZ^
W]@ [W]W]VZ`SYWZM] g` V D[V]SgXVSe [` V]W
3gyWT^ [U] eaYsd_ [fW] 9WS`]WS` W W i W>W>W
=SfZW[` W h[V]Zi S_ _ l W W V[V]kb` af[e]UZV? SUZf W
BSd[V]Xod [_ W]ZSffW]g 7[e] W[V]Sd]W` SeeWZi Sdg_

g-fWw[_ Wlea eW 1I Sdg_]a` fWw [UZfW/V8Sg
 Xde[UZ ZSTW eSff V[Ww eLZ_ gfl [YW ELZ'S_ bW [` 3Tef3 WWha` <SZdW13TWw i [d `UZw>[WwWw [e
 i SdW `SZWg g` hadfWTSdW7dW [ež6 [V8SgW Sge
 WwBSdW i SdW e[UZS^WVWzž6 [W` fZS'feS_]Wf i Sd
 [Z' W WWea f[VW YW_ b i [W[Vf dWgdBSdWž
 6gdLZ eadYB'f[YWZi Wf[YW>W] g` Yf VgdLZ Ebadf
 g` V=S'fi SeeW VgdLZ Ww YS` lW G` e[` l W [Z' W
 [` WELZg^WTVWw EbZWf g` V [` W [gYWVYYS
 W YW[UZfWf i gdWVgdLZ Hadf3YWBSdSWw >[Ww
 BSdW eLZ/SYi adVg` V? [f'f3d_ ge] i Sd[Z' W Ww` Sföž
 UZVWZ^SgeWVW i adWZi W eW HwS' V[Z_ Sg
 LZ eSYWWS- W3ge` SZ_ W YWw_ öeWY'SgTfVW
 : W ValZ ` [UZf VSc` ž6 [W8SgW i SdW S^WYWSg
 i [W[VBSdWwZSTW i a^fW [UZf l g WELZöffW ž7d
 STWi ö` eLZfV[UZi eaYsd` aLZeW UZWIS'e YWVflg
 i WwV[VWf gYW_ SgW [WwgdW-W] g` Vi BdW
 SgZ `gdW Wl[YW? S^ [` eW W >Wwž6 W3]f W
 YWZ^WZ[UZW HwELZ_ Wg` Yi W WYöU] ZS ha`ž
 laYWi gdW SdW 3]f W3g W g` Yž6 [WVWwW
 i SdW 9WS`]WhWdWZwžEaYsd=SfZW` WwW] f
 lg ZSTW ~ i W [Z_ Vse` WwVg` YW i BdW-ZiffWS'e
 HwZdg` YWafW aTi aZ^eWw W8Sg i Sž

3TW W ELZ'g- W 9WZ[UZfW_ g-fW g BSb[W
 WdSuf i Wwž7deLZdW,

;LZ eLZdgTfW[V8S_ bWZaLZž3'e [UZ eWVW>[UZf
 eSZŠ

@SUZ W 6g`] WwVf i Sd [Z_ Vse eLZi SUZw>[UZf
 WBSd ` 'S_ bWwZdZW WELZ[WwžLg_ WfW_ S^

]a` fWVW8Sg dUZfYeVWz7dZSffWV WEUZdffSgX
 e[Wg YW SUZf g` Vi SdVS` `I W8`f ha` 4W[VWVg` V
 3` Yef eVZW YW[VWVz7di Sde[UZ.cgS`ha`^WV9V8Zd
 TWg-fl V[VWVVS_ [f SgXe[UZ YWa_ _ W ZSffWVS- W
 Z[VZVWV YW)a_ _ Wi Sd7ei SdeVZdi aZ^_ i Y[UZi VS-
 [Z` W WefM[VWV : W8ge)a_ _ W ST `Y, h[VWVUZf
 i SdVW eWV` V[VWV 3gYWT[U] eUza` VdSg-W had
 WVFöcZl W` W g` XcdY[` YiaZ` Wgfg` li W VVWV
 YW)a_ _ Wi Sd7ei SdeVZdi aZ^_ i Y[UZi VS- [Z` W W
 EfdM[VWV : W8ge)a_ _ W ST `Y, h[VWVUZf i SdVW eW
 [` V[VWV 3gYWT[U] eUza` VdSg-W hadWVFöcZl W
 W` g` XcdY[` YiaZ` WVlg fg` ~ ~

7e_g-fW[VWVWUZdVWV_g-fVWVWUZfW VVWz
 ;` WVha`W 8`gf W>S_ bW[UZfe ZSffWVb`i fl UZ
 W[S` `f, V[V8Sgi SdgdSfz6[VUZ_ [`]W [ZdV 9WUZf
 i Sdea V[U] SgVW8YWV VS- W8geesZI S'e]i` `fW[VW
 Ebc` YWV)a_ _ Wi [WV W? Se] W8geBSbbV;` [ZdV
 : SSdi SdWi W-Vefdz` Wz3TWV[WV8geYeVW[` I VZWV
 i SdVS- [ZdZS`YWV `WV? g` V` [UZfeWZö`fVS`eW W
 eZi Sd W i Z`V[E]WZSffW6TWZSgbf] W VLfz` V

: Sef[YeZd[VW V_ [f] dfl WYW LöYW,

4W>[UZf YWVWV i Sd e[VWV W8`l SFW8dSgl
 i W/YeVWeX` X/Y-SZdMS`fz3TW[UZ UW_ [UZ` [UZf
 STeUZdW W g` Vfsf Wfcbfl WVž

I [WVbdVfWV[VV8] YWVWV eW V8gYWT[VWz
 7` V[UZSffWVWZ]` YWUZd[VWVz3TWVWZS`X [UZf e[VW
 W8b[VZSffW [UZf YW [d] fZEW HMTS` YW_ [f `SgfW
 Ef_ _ Wg` f[VWV adVZ]` Sgel geUZd[VWV i SdYWSgea
 ZW[Yi [WVghadž

I W W`aZ W W a `g`YY[Th eZdW I [`fa` l ea
^Wf eW W W W Bch Wz

I W W W W a `g`YYSt ea _ g-fve[W W] X SUZ TW
W W Bch W ^W W W W `gd Vadf [` V[W W g` T W SUZ W
Vgd Z W S` W W [_ W W W ? See W V[W*` Bcal Wf W W
4 W i ^ W g` Y A I W S` [We Sge_ SUZ F W] a` f W W S`e V[W
= dS W fe W W V[W B S d W g l W E Z S Y W z H a` [` W Z W
] a` f W W B S d W ^ [Uz Y W f o d f i W W W z ; Z d W 8 W W W
~ i W e W W T W Z S g b f 8 W W W Z S f f W - Taf e[UZ] W W W ? i Y Z
^ [Uz] W W l g e S _ _ W l g] a _ _ W a W W S g U Z ` g d W S` W W
l g W W W z E a Y S d i W V[W W W W B d W % a b W W E Z S {
i [d ^ [Uz] W e [W W W i Se [_ _ W z] ` _ i Y ^ [Uz i S d T ^ [W W
V a U Z g` h a d f W W S d V S - [Z d W ? [f Y ^ [W W e [Uz _ W S`e [`
Y d - W W 3 ` l S Z ^ S`e l g l i W W a W W V d W W h W S _ _ W
] i ` f W z 7 [` 4 [U] [` V[W 3 g Y W W W W ? a V g` S f a` W W
E f [_ _ W I W W g f W W E U Z a` D W W W a` - V S e A g - W e f W i S d
W W Y W o e f W W I a d f z 3 T W W V B c a W e i W e [W e [Uz ` g d
[Z d W ? S U Z f T W g - f i W W W] i ` f W W Z f f W W W Y S d [Uz f
` i f [Y W W W W E U Z i i d g` Y S` l g l W W W z e [W W S g U Z F W ` g d
S g X g e f W W g` V e [Uz l g e U Z o f f W l i [W W] B X W W V S e
V[W 8 ^ [W W S T e U z o f f W z I W e [W a ^ f W W] a` f W e [W
V[W B S d W _ a d W [` E f o U W e U Z S Y W z E [U Z W] [Uz _ g - f W
[Z` W X B Z W a W W e b f W W W 9 W S`] W S l g] a _ _ W
G` V V a U Z ~`

7 d W ` W f e [Uz i [W W W _ S ^ W W a ^ d W Z W e f d - W
Z [` g` f W W S` Y W i S d S`e e [Uz W _ B U Z f [W 9 W U Z a W

i gUzEW [ˈ VwI9aeWsgXY]ˈ YW _ [fli iˈ X-SZdW Sˈ
V[V3dIVfI VgdLZVfFW W Wgd W4ˈofVWf] i dbW[UZW
ELZiˈ ZWgˈ Ve]ˈ ˈ [UZW4W[VWVZVfVWV _ [fli Sˈ l]Y
SfWfW _ [f VdW[Ygˈ V efSdIW l g_ Yd -fW FW] _ [f
eWZl [Y-SZdWZELZi W] i dbW[UZW3dIVfI V[VfEadVg_
: W_ gˈ V=[ˈ VwI] ˈ W [UZVfEdW]Y] WfW _ [f@SUZISd l
=[ˈ al 8g-TSˈ 4[VWgˈ V hadSˈ W 9ˈ oU] eeb[VWV6ˈ fW
VW DSZ_ W [ZdW 6W] We Sgež 7e i Sdˈ [UZf eZi W
e[Vgˈ fW]=aˈ fdˈ Wg ZSfWž@gdW bSSd3YWfW W
9WSˈ] Wbaˈ l W[VWVfW e[UZ ef3 V]Ygˈ fW[Zˈ Wl g_
Xˈ eLZW9W6UZfW g hWIdW gˈ V V[VWV]YW l gˈ af[Vž
dWgˈ V hWELZi [ˈ W Wl gˈ SeeW V[Vh[VWV]UZf YWZd[UZ
i W W] aˈ ˈ fWž3TW W i gdW W W HMe gUZ YW SUZf
V[VBaˈ W_ [f W[VBSdVZ W aY[VWV]Sgfl g_ SUZWž7e
i Sdˈ [UZfi öˈ eLZWei W VS- e[VW] efSd] Wbaˈ [f[eLZW
4Wg-feW ZSffWžHaˈ [Zˈ Wi gdW W gdW bd_ [f[hW
BSfd]af[e_ gehW Sˈ Yfi Sˈ W W_ Sˈ YWVWVWV Sˈ eSbbVž
ˈ [W] aˈ ˈ fWi W e[Ve[UZ_ [f W W HMe Sˈ YWgˈ Y[ZdW
3dIVf efgˈ W WaW W W =öd gˈ YW[VDSf] aˈ WST ˈ W W
_ g-fWžGˈ VeaY Sdi W e[VW] _ Sˈ gˈ l gX[VWVi gdW W
XZdW ZdW Gˈ l gX[VWVZVf l gˈ [UZfd W W VS e[VW Sˈ l
aZˈ W W W W W W W 9WSˈ] Wi SdW d[UZVW e[UZ V[W W
Gˈ l gX[VWVZVf ˈ gdSgXIV Sˈ Yˈ aeW W W [YW ØTW f3 W
6 [Wd -W W ØTW f3 W W W Y]ˈ YW gˈ i V W [UZ [ZdW
3gX W] eS_] Wž6 [Wd a-W? WZdVf W W B aˈ W ZSffW
ˈ [UZf W _ Sˈ W W F W W] ead [ˈ [ZdW l aZˈ gˈ YžEW f
V[W W i Zˈ ˈ [UZW Baˈ l W _ [eLZfVe[UZ ˈ gdeW Zdi W] Y [ˈ
[ZdW 3ˈ YW V W Z V W W ž7e YST [ˈ >aˈ Vaˈ W i W hW Id W ž
f W W HMe Id W Z V f g_ l W V W Sˈ l [ˈ e[UZ YW L Zˈ ae W W W W

ha` 6 [VWV EfcS-Wd3gTW l Bcaef[fg[VWV TMS` ` fW
 DSgeLZY] Žg` VEZi SdZB VVW ž3TWVS e[UZ VSeS^W
 `gdg` fVWVBa`WSTeb[VWV SdWaZ VVWVfg` Yz`
 S^WVZ[eLZW 8dSYW ^W_ S` e[VZdMS^fWFdVf[a`
 X^YWž6 VVWgVWBgdfS` [e_geVWBSdVW gdWVZ` W
 ` [UZfSgXW g` YWž3g-VWVWVZVW9WVZ^WZfehVW Vd
 T^W g` TWfS l ELZVWg` YW i SdW VVSGIfzEWef V[W
 3geōTg` Y W VDWY[a` i BdWVVSffW/i adW i W
 V[VBa`W [dVWV [WSe 4WödX [e aWVWV I g` dZ
 VS` SLZlg_ 3geVdU YWdUZf ZBffWžE[W SdW ōTW
 VVW H[VSUZf WZSTWžI [VWV ELZ^SYi ad VVBSdVW
 VVSGeVdU f, %Ba`Wg` VF[VWV` V XWV

I [`efa` TWYfW[eUZ hadg` V] dfl fW had[UZfYeW W
 =dS_bXWV] `afW V[W [WVd]g`gU WS` YMS` YWZSŽ
 fWž6 VVBg`] flSgXW_ S` g` Sga VVZ^UZ [_ VV [VWV
 l gcbU YWZdfi gdVW SdVWg` _ i Y^UZ] VV e[UZ V 4[V
 ha` WV >VW hadVWVWV^gf[a` lg_ SUZWž7dl aYSge
 VVUZg^TSWV 9WVZ[UZfeTg^Z XdELZg^] [`WVZV had
 VSeW ha` 8dSg BSca` eWf^VWVZSffWg` VTMS` ` W
 EföU VScge [`eW FSWVgUZ SIl geZdVW,

;` WVS^fWLVW hadVWVYadVWZVDMV^gf[a`
 i Sd>a` Va` ` [UZf V[VZVW^UZVVSfV S^e V[W [dW
 ZVfWVW Wž7ei SdW VöfVWV dZ_gfl [WV Sd_ Ž
 eVWVAdi a]Sg_ WVS` VYWgYlg VVWg` VFSgž
 eWVW ha` Sd_ W? WeLZW] W VEUZgZMS` [ZdW
 8ō-Wg` V` [UZf W_ S^W 6SUZ ōTW =abXZSffW
 g` fVWV e[VUZ^S^V]a` fWž=[` WV]` 7gV 3^W
 g-fW li i XEfg` WVS FSYXd YdGeS` W3dVWž
 VVW dZg W V[VWV [f BVfELZW dZgYVW i W

eWg `S` YeS_ SdVWVWV g` V[Z` W` gdfcaUWV
4daf g` VI SeeWV g WeW YSTWz3TWV[_ [ffWV[VWV
eZdWV [UZW 3d_ gf YST W W bSSd Ych-WeZi` W
: BgeW V[Wa` WW DVUZW TWaZ` f i gdWV V[W
Tielg VdV-[Y6[WefTafW]g [ZdW4W]Wg` YZSffWz
6[VWVWUZW` S` `fV S` =Sb|fS[eWzE[W SdWVUW
ZB-[UZW? WeZW_ [fTi eW9WUZWV i [WVdSgX
WV` BUZefWEMVW3TYW[VWV7dfdBVf i [WZdeWVf
W W `S` YW eZi Sd W DaU] VV9VZchU YWS` `f
i gdWVg` VW W]a_ [eZMV YB` IWWW: gfha` W
&ad W WAXVcbZch WdLk[` WdZ[Wz6Sei SdVW
= VVg` YWV=Sb|fS[eWV g` V` [W S` Vea` ef Vgd W
eWdSYWz6 W=Sb|fS[eW YWz dVW^W i Se W SgX
WdI W YSTI g` VS^W^ WdW? WeZW i SdW [ZdW
E] `ShWzE[VWV S-WVSe YS` I W S` V S^W BgeW S^W
8STd] W g` VS^W9WzI W W S` V[Z` W` [UZ
YWadZWV[VWV eWZ` [e9W^ Y [ei W W aWV
`SZ_ W [Z_ V[V3dVf i W VS_ [f W hWzG` YWV
I W W YWiZ` [UZW? WeZ_ [f W W =Sb|fS[eW
ebdUZi_ g-fWV[eUZ VgU Wg` Vhad[Z_]Sf TgU W
eW W öfl VST WZ_ Wg` V[Z` _ [f %ö` BVWV: W
S` dWVz6W: Bgbf[` YWV=Sb|fS[eW i gdWV` i` [Y
YWS` `f g` VŠ

3TWVW] S` fW[VWV S^W^ WdV eZa` z7ei ödWV[UZ
V[VWVUZdV]g` YWV4[eZi XV [f [ZdW 4Sf[efBd_ W
S` eZ[VWV WdD[UZV] [ZdW: W V` daTWV W
Bd` YWV W4aU] eWVfWV_ öZVWV Wg` eZi B I[YW
=Sf VWW4S`]WfW>a` Va` WATWVöcWV VefWg` V
W4dSgUZd WV BSbf WVEUZgZ]g]öeeWz3gUZZSffW

W ea W i Sei [WSeeaYWS` `fWgebL SWaUfleYWWWW
i Se hW gf^UZ` [UZf [` W W = [` W W dI gUZ efVW
i ödW6Sei SdW 9W W I` SUZ VW WWW= Sb[fs^ef VSe
DWzf ZSffW_ [f` WWW [` eW W 8Std] W TWUZB [YfW
? BUZW I g eUZ`SXVž

7d) a` `fW [UZf eSYW i [Wh|Wha` S^`WV >öYW Sž
7e_ aUZfW SZdeW I VS- WWW 6gdZdZ [ffe_ WeZW
ZgfW TW eW Y^ Y S^e had W dW a^gf[a` ž6 W W I [YW
9W W TW Vei SdW defg_ VBcfWf [` VWWW; ` W I
VSe[ef`] f[hV W Z1 VS- V[WVW]` Yg` YM g` fVWWW
_ S` VVWg` Wf dY^UZi SdWg` VXZWS` W eY W W
eW _ g-fWž7e W[Z_ SgXVS- VSei [d^UZ 5ZSd] Ž
fW def[eZWWWZgf]YW >VWe` [UZf eW V W dSge_] W
g` VG` e[UZWV W ea` W W W XUZ eW V W SU fZM eW W
ELZBIY] W eW W DgZ W eY] W i Sž6Se >VW ZSffW
i W _ S` g_ eUZT^U fW [UZf` gd] W W W ÄZ` ^UZ] W
_ [fW W >öY W V V Sge W W F W W leadef d_ fW ea` W
W fbdUZ` [UZf W _ S^ W W ; W S W i [W eW W B Sd W
SgXf W W 7]` Yca- W F W W W >V W e b [W W eUZi e W ef
Xd W B Sd W [fY^W SgX W W W f d S W g` V g` ba^f[ž
eZW 7TW W T g` V T W S` V V Sd` I eUZ_ [f` S` Yi W Y W
3d W S I gb^SYW eUZ W W B S I [` W W G` f W d g` V ž
TSZ` I g W W W I W W W e W W e a U W g efabX W W
ESUZSd` f S T W W g W W W W I W W L [Y S d W W efg_ _ W
SgXg T W S Z d W ž6 Se ha` W W B S d W S` Y e d W W W S` i Sd
W Se9ca- W ELZ d W ^UZ W 9 W W W W W W W Sge
EFSZ^g` V 4 W a` I W W W W ha` d W W W ? SeLZ[` W g` V
XgdZf T S d W I S W ~ _ [f W W Ha^] ha` = d W W g` V
8S` Sf] W I V S e h i ^Y W W Z` a e W ha d S` _ S d U Z [W W S` W

_ [f VV YVUZW 9WS`]W g` V VV YVUZW ELZ/SUZfZ
dgXVI i a S^WbSgeW^ae SdIVVMMI]B_ b Wl e[VVWf
hVW^YfW ~ VdVZg` Wf? [^a` W? WeLZWI S^W_ [f
VV YVUZW 9WfUZWf ž6[W [d ^UZ] Vf STWfi SdW
l VbS^WWW/ZWg` fVWV/a_ _ WWeffBMV/VgdLZ VdW
EfdS-W g` fVWf BZdW? WeLZW [` VgdLZ^i UZVfW
ELZgZWelZ^UZWg` V[` VdW` afVöd [YSgeVWVWfW
: fgeWf SgeWV ` Wg lVZ fw-SZdZg` Wf i aZ fWfi a
W[_ Wf SUZ=aZ^g` VeLZSVZS W3TadW dUZž;Z_
i SdS^eßZVWV VVH[e a` ha` >a` Va` S^e VV WdVfWV
Fcb_ _ WfSVf V WfSVf ha` ? [^a` W=VZdUZfZSgXVI
g` VVSZ[` fVWV 4[V ha` 8dG BSda` d VV Wf8dG_ [f
VgdLZgdZfW 9WfUZf g` V hWf geLZWVW: SScM V[W
Z[^ aeS` W V hWf fab W3geYg- ZWg_ ZS` f[VfVf

7dTöU] fVfUZ g` V] dffl fW [WVbS` eW V W =` i UZVZ
FSYg` V@SUZf]` SffVfWV W WfVfWVleadV[VAZdW
ha^_ [f Efsf[ef]] Wf Sge WWW ZWf adM` Yf VS- V[V? WZ
dLZWZVf] gfsYW VZdl g VdM_ VZdS` lgl [VVM TWVdW
I aZ` g` YW g` V VV WTWVdW8dV VVfVfSfg` YZSffW
~ VS- e[VbS` YW VVW g` V [ZdW3dVf d VV] öd Wfi Sd
VS- e[VWd -Wf YWb` Wf] dß [YWf YöU] ^UZWf] öYWf
YVf^VWfi SdW S^e V[W? WeLZW hadX` X[Y-SZdWž
=Wf I adVSha`]a` ` fVWfVWf aWfi [WfVf i WfWž
6[VBSdVf/VZSgbfWVWg_ 4Vf b[Vf YVWfi BdfY]i` ` fW
&` Bdal Wf WdVf SUZeWW Bca` V` V` W g` VeLZdMfW,
hadWfDma`gf[a` lZ[W Wf ZSIW[VLSZ^` gd# Bdal Wf
TWfSYWž6[VBSdVf/VZSgbfWVW[V- [` Wf fVf^UZ] Vf
TWfSgXVfUZ Wf f` gd` aUZ SgXVf Zg` Wf g` VeWZl [Y
bca fSgeWf i BZ^WV e[W had WfDma`gf[a` VdVZg` Ž

Z[YUZFV/i adW i Sd TW/VWW e[V9VfB V [eeW
[ZdVHMTdWZ ST'VFWzG` fWVW VVfW OTVWZ
TWW i SdV VdV? B ` W ` S_ We <a` W 3Sch` ea`
g` V DgfZVAdzG_ VSe-SZd#(' ZWg_ _ g-fW SgUZ
V[VWdV/hVZS W/i adW eV` ZI [WVZIG Yhad S_ I
T[VWV e[VWV <SZdaVW B YVhVWZi g` WV ea VS-
_ S` ` [UZ i g-fW aT e[VWVZSgbf` aUZ VVWV g` V
i SdV VS` ` b1 fl [UZ i [WV Sge VVHWEW] g` YZVZ
hadVZafi adWV g_ e[UZ [VVOT[VZWI VVWVef
S` lgeZg^V[VWZEVZSfW e[UZ W7[hVfB V [eeW_ [f
WV 8W V eUZg^VYTVS` ` f/SgUZ VS_ S`ei Sd7gd e[V
VW8W VV WVG` fVUZSYg` Yi Wf[VZW9WV W
? adVW` hVUZ[VWWW SfW BsdV [fy[VWV I W V
HWEZ i dg` YVWV[VWZdVZS W9da-W4gVW
V[VW` YVhad3geTdgUZ WVDVha^gf[a` TWa` ` W ZSfW
g` V WV[VUZ S` ESTafSYWZS` V'g` YW V[VWV FaV ha`
: g` VVfSgeWWW ha` ? WeUZW ZV[VWVZd ZSfWz
@SUZW e[VUZ V[VW6[YW` YW/SYf ZSfW i SdV
e[VWV SV[Vfi [WV[V[VBSdVfSgVWVa_ _ Wg` V_ [f
TWVfe_] [YWWW BafWTVfSgfi adW V[V I SZdZ
ZV` gdE[VgdV i SdVz3^VWdVZSfW g_ X` YdVZW
] dVZV[eUZVd Bdg` YW [VVfV W hV Wf[VZV [V
WWW e[V[V9d` WV6d[ZdV FdgVWgUZ [V[VWV
SgeV S` VVWVfW g` V e[UZ l g TWV hVb dSUZVz
7[[YLVV` SUZ [ZdV8dVSeeg` YZSfW [` efa` S^W
VdVeaYsd_ 5S%SeS` [WISg_ { YWZVz7dVfeS` `
e[UZ W VVW` ` fW 7` feV Wd_ [f WV W e[VWge VV
3gYwI [] W TVTSUZVZSfVZVW SdV i VV BfVWSe
V OTVWV[VWVgeV W hVW` YWV I W V TW SZW[VW

4W öZM V[VHMS' YWZM/i [WMSg VWI]g 'SeeWž7d
i SdV g` Xd_ [YYa-W? S` _ [fW V[Vf]YW YGgW
? BZ' VMW W b[U] WYMW YWg` eWW9W[Uf]g` VV[U] W
@VW[V]bbWž7d_ g-fWVW_ S^d[V]Ye[Sd] YM/VW eV-
WV fi SdeV eZi VV=i dbWYVWgYfI V[V]dUZM Sgž
YVZi W_ fg` V'i efV[UZ] eV W[V]S` VVMSgž7d
dZ[V]hadW3gYWVW4V[V]ZV[S]geV[S' V[V]gS^W
i [WV] [eDgfeZW Y[V]FVW[V]S` V[V]Vž

7ei SdV[Vef]~Vefg` Wg_ X` XVZ GZđI [efa`
]a` fV[UZ] [UZf_ V[V]V` W i i [V[V] V[V]S'WVg V[V]V
LV [VSe5Sx YV]a_ W i Sč6Se>a) S^i SdSef ^Vž
3geVW FVW[V]ead[V]VW[V]Z_ ge] ž6 [W[V]V? B` W
eS-W Sef dVg` Ye'ae [[Zd[V]7U] WaZ` V[S]gUZ` gdW
I adf l g ebd[V]WZžG` Sg[V]V[V]d[V] T[V]S[V]FVW[V]= W` W
` VgV9` BeV_ [f 9 [ž@VW [Z` W SgXW F[eZ eS` V
W EUZSUZ[V]V_ [f Sg[V]V[V]W 8[V]gdM STW[V]VW[V]
eb[V]V` [UZfžG` VVS` V[V]V V[V]e[V]Zi h[V]V[V]Zf_ YS` Ž
l W[V]VZS[V]V [gfVS` Y[V] V Se? V i öd[V]V_ [f VV
FVW[V]eadWž6Se VV Y[V]V[V]V ge] eföU B` V[V]V[V]UZi
` [UZfS^V [V[V]V V[V]V[V]SgUZ [V[V]= S` Y[S]d[V]7e)S_
V i SeZ [W ~ STW[V]V SdeZi V[V]g T[V]V[V]Z[V]V[V]i SeW
i Sč7 [eVes_ Y[V]V[V]V[V]e[V]Z_ V[V]V V[V]Zi Z` [eZV
= S` Y, I [efa` ` S` fV[V]V[V]e[V]UZ V W YVW = S` Yž

G` VVS` eS` YV Vef_ _ V[S]ge VV FVW[V]ead VSe
S'fV[V]WUZW,

G` V[V]fZV[V]bd[V]V' YUZV f fdW
^eaV kag S` V kag eaV_ W
V[V]V[V]ZV[V]S` VZV[V]V[V]W V
G` V[V]fZV[V]bd[V]V' YUZV f fdW

ZS` Vg` YW S`^WdW? B ` WYwS` VW ZSffW eLZ l g
V|WV L|Wbg`]f SgXWgSe[eLZW 9V|W|TWg` VW l g
ZSTWZ|E|V|W|W|ha` W`W` Y|W| W8gYZSXV[` =S` SVS
l g W`W` LgeS` _ WfdWW [d|W| a [` E|T|d|W` YwaZ
Y|W|Z|B|W` [f? [fY`|W|W| W|W|g|Se[eLZW9W|W|S`e|STe
4W|Sfg` YW Y|W` aYW g` V [Z` W i [UZf|Y|W` [ff|B|eLZW
9W|W| ` [ee|W|W|S|F|Wz6Se6Sfg` ZSffW|eLZ I [` efa` e
9W|B|Zf [e|W` Y|W|B|Y|f i W` W|l gX`^Y` [f W|W` Ea` Z
_ W|S` X` Y|l geS` _ W Wz3TW|V|W|S` l W|S|U|Z|W` g-fW
` a|Z|S` l SZ`^aeW|S` W|W|E|F|W|W|SgX|W|W|Z` W|e|W` z7e
Y|S|T` gd|W` W` i Y|UZ|W|E|Z|g`-X`^W|g` Y, V|V|W` W|B` V [eeW
i SdW >öYWz

@Sföd|LZi SdVSeS` eLZ| W`W|W|W|W` fW|W| g` YzEaYsd
VS_ S`eZSffW [` efa`] W`W` 3gYWT`^U` YW|Sg|H` VS-
V|V|W|W|W|E|B|g|T|W|g` Yes|fla` W: [Y|W|UZ|F|W|W|i [d` ^UZ
W|H|H|T|d|U|Z|W` eLZg`^|Ye|W|W|W|W` _ S` e|V|W|W|UZ|f|Y|W|
: [W|S|T|W|Z|S` W|W|W|eLZ` g` W`W` Yd|W` SdW 4W|W|e-
Z|W|Z|W|W|W|W` 8dY` Wf W|S|geY|W|` Y|W|H|H|S` YWZ|W|
[` : B` W|l i [W|W|W` X|ee|`W` = ` a|Z|W| W|l [` W|H|W|Z
] W|d|W` 9W|W|W` eLZ|UZf SgX|W|S|g|UZf i Sdg` V|W` W|W|a`z
Y|eLZW` W|d|W|g` [UZfW` SUZ|W| W` V|Se6a|g` WfSgX
[d|W|W|W| W| W|e|W|W|I` W` T|W|S` ` f Y|W` SUZf g` V e|W` W
4W|W|g|g` Y|W| B|d|f i W|W|W|]a` ` fW|Y|W|ö|Y|W|W| g` V|W
B|S|d|W| [` 3fa` _ W|g|l W|e|b|d|W|W|z

7dZSffW|g|Z|Yi W|W|W|S|d|V|W|Z|Ea|S` V|W|Y|W|Z|W` ZSffW
i SeVSe4[V|V|S|d|W|W|g` Vi Se W|T|W|g|W|W|ZSffW|W|W` [f
W`W` S` W|W|W` 4` Sff BSb[W|l gY|W|W| fz9` öU` ^UZ|W| W|e|W
i SdW|L|W|g` YeSge|eLZ` [ff|T|W| 3gX|a`^W` [f W|H|D|ö|U` Z
e|W|W|W| 4`^U` X|W` W|e|F|W|W| [e|a|d|g|Y|W|W|Z|f Y|W|W|z

EMVW i SdVS` VWV`a` eWsf[a` W W V YdVW li W
aVWVdV W] a` fV[UZ` [UZf W] ` W li [Vh[VWzEVZd
i SZdZV W^ [UZi SdW V[VW V] V [eeW [WVg` Vi [WV
g_ YWUZdVWVi adW TleV[Vg`db` Y^ [UZWFSfeSUZ
g` V 6SfW` [UZf_ VZd V[WV] YefW4WVg` YZSfWz
@[UZf YWgY VS- V[VWMS` YWZV eUZ hV] VVW[ZdW
HVB` Wg` Yi SdXd`SgXWg` Vg` Sg id[UZz? [fWV
9VZ^W Vw3 bfcg_ eTWcbU] fVZ` S_ _ V[W VS- W
` [V]S` I TWd WZSfWi Sdg_ WVS` I W[V V] VUZi [` Z
W6TWZSgf ha^1aWi gdW6[Vg` _ [fV]SdVHadVW
V W8B^UZg` YWVHMS` YWZV i SdW a We[UZf^ [UZ
STWVSe W fWgdMWF^ [UZW? af]hi SdeZ^VWZS ž7d
Yd i [WV]g eW V 8WVZS^Wg` VeUZdV,

6SeI [VWVfVWUZi STW` [UZf VSeI Sdg_ ž

7dXSfV[Uzi [VZa` a laTWi SZ` e` [YYWadW
i SdH[VWZfi SdW I SZ` e` [YV [UZfei VV]S`eW W
? [` WZV V[WgdSgeW W ? WeLZWTW]S` Vž7eZSfW
V VLVf YWVW [` W]V]S`eLVUZW ha` I SZ` e`
YS`flg YSgTIV[VWdWdZV[UZg_ V[V]e` WZVfW
i SdV I SZ` e` ` Ilg YSgTIV[VWMS` YWZV e`o` W
W Xds^W S^Xfz7deS` Vh[VWUZf YS` I S^W VS_ [f
V[V] 9`SgTIV i W W]STW]S^W i SdVS` ` i SdWV
I SZ` e` [YVZ3TWVW9WS`] Wi SZ` e` [Ylg eW I
TWg` dgZ[YfVZ` i W[V]S`e V[V]gdZfISdVHadVWg` Y
VS- SgUZ Wg` dVZf ZSTW] a` fV

7d` SZ_ VSe9WUZ[UZfTgUZXd=[` W]gd: S` Vg` V
TW]SUZVWVSe4[V [eW]9da-W4dgW]SgXW F[fVZ
TSfz6[VZk` af[eUZW3gYW eSdVW]` V[V]W Wz7ei Sd
S`eVcbU W V W V Wi [` YWV] dS ` [WV]~ W Sd VSe

W W [W W E L Z B W W V d S` Y V S e 9 W Z d T a _ T S d W W
 W W V W W W W W O T W W Y g` Y W S g e f d W W W W S e f V S l g
 T d S U Z F W [U Z f B` Y W W W L W Y [e W W W W W E] ` W g
 f d S g W Z L g Y g f W > W f i ö d W W W B S d V W h W ö` W W V S-
 l i W g` V l i W Y W L X` X e W g` V _ S` i ö d W W Y S g T W
 _ ö e e W Z G` S g a W Z [U Z _ g - f V e W W Z W a W d e b f W W W W
 4 W S g b f g` Y S g X F W W , [Z d V S W X d W W W a Y e L Z V W W W W W
 8 a` W g` Y z @ [U Z f` g d W W I W f W W 7 d S Z d g` Y l e a` W W
 ö T W Z S g b f V S e H a d Z S` W W e W W W W Y W W W W W I [d [U Z Z
] W i g d W W a` W W B Z [a e a b Z [W W W B S d V W e f [a e U z i W W W
 Y W g Y V Z 6 [W d - f V S` W = W W W W i S d W W Y W g` W W
 ? W e L Z W h W e S` V Z G` V V S e 8 g d Z f T S d W S d` [U Z f V S-
 e W W W g _ T d S U Z F W i W` _ S` S` W e V S U Z F W e a` W W
 V S- e W W W W Z f d W Z f Z S f W Z 6 W i [W i` ` W i [d e Z a`
 i [e e W a T l i W g` V l i W i [d [U Z h [W [e f 1 A W W a T V S e
 9 W W W W E L Z i W d S` e f [_ f 1 A W W a T V W W W S` Y W Z
 Z W g` h W S W W [U Z [e f I I W T W W W H M S` Y W Z W g` V
 3 g - W i W W` g d [W W H a d f W g` Y W e f W W g` V _ S` V [W
 H a d f W g` Y W X S U Z T V W W H U Z W] S` ` ~ i S e V S` ` 1

3 T W` W` E W W L g h W e [U z f e Z [W e [U z b i f l [U z h a`
 e W e f l g X e f Y W Z ; Z _ i S d V S e 9 W [U z f A 1 4 d [W e [W W
 E] ` Y W a _ W a Z` W W g d L W W a W e [U z f [U Z W 0 W S` Ž
] W S e a l [S f [a` Z W S g W U Z i a d W l g e W ž 7 d i g - f W [f
 Y d - W W 9 W [- Z W S` e l g h a d V S - A 1 4 d W S g X e W W W W W
 e f S` V Z 7 d e Z d W V S e F S Y W g U Z X d A 1 4 d W ~ W e d Z d W
 W S` A 1 4 d W Y W [e e W _ S - W , W i S d i [W W W W W a e W
 4 d W W W` [W _ S` V W W W i ö d W W W I S T W S` W W W
 T W [_ f W ? W e L Z W Y W [U Z f W g` V h a` W W 9 W S`] W
 S` [Z` T W W W i S ž

6 [VBSdW/VZdVW/Wi Wd7d] W f [e eW/W3gYW
 g` VAZdW` [Uzf l g f d Sg Wz6 Sei Sd [Zd W fe UZVWVWVW
 i [UZf [Ye W9 Wafz; Z_ eS`] Wd? gfi S'e VdS` V[VdVWY
 ? SUZf VSUZfV/VWVW [Z` Yd e f W e f S` V [VW> WUZŽ
 f[Y] Wf _ [f Wd [Z_ \WVBSdW]` fW]YVW` WTVWVW W
 6 V[SffVW/V3TgZdVWVW] a` ` fMS` V[VSGeYW/öYVW
 3dg_ WfW/V[Wd]` [Uzf l g h d e f V W i Y d Z i V W V W V
 lgi [WdVW h W aUZfVg` V W W aUZi SdW[_ DWZf`
 E[VZSffWg` dWZf g` V W Z S f f V W Z f 6 Se: S` V d W [UZW
 VSe 7]` XUZWg` V V SeI SZdV_ g-fW h W V W [Yf i W W W z
 4]` eWi SZdV W e]` Vi SZd V S d` i a` f W W X d f Z S f W
 6 [Vfa [UZV W [ef hadZS` W [Zd V W V W V W e [UZ
 ` [UZf Z f W V e]` V Z S d f I See W [ef` S-ł W W d 9 V W e f S` V
 W W _ S` ^aeß-fl X` f W W 7dV_ [ffVbg`] f l g z? [f W W
 9 W Z 1 l g A14d] W l g e b d W Z W g` V W W i [UZf [Y W
 9 dg` VeSf Sg Xge f W W eUZdV W W

8 d V Z M f [e f V [V S d V Z M f l g e S Y W V S- li W g` V li W
 Y W U Z h [W [e f Z E a T S V V Se Y W B Z d V e f W [e f W M T f e U Z
 S` W S` W W h a` e W e z

3 =

; d W W i a h a_ 7 W W V W: Sge g d e V d` Y W W 6 g Y W Ž
 e f W W = S W W~ W Z f W = S W W [UZf H [Ufad Ž S W W~ Sg X
 V [W e f d S- W d [` e f a` T [W g` i [^] ö d [UZ e f V W W z H [W W U Z f
 li W E W g` W W ` S` Y X Z f W W e [UZ [` V [V Z S` T h W W e W W
 I W e W W = [V Z M f l g d b U h W W e f z 6 S` ` eUZ g Y W W

%oW WWWW a `g` YY|T|ZSFWW| eW FSWWGLZ
YWZd|WMI %aa |Wf e|WTWVW BchVz 6|WMI adfW
i a^fW|Z_ `|UZfSgeW| E| `|e|W SdWi |W|V|W|eVz
`g` YW|W|W|W| `|cha^WI SZdW|g` V|gY|W|Z|W|W|
a We|UZf|UZW 3Tegd|f|fz 7dTVS` V e|UZ |dWMI a|`
W|W| g` oT|W|UZf|UZW| e|Z_ g|f|Sd|TWW 7^W|Veh|W|W|
`ad| e^|UZ W|X|Z|W|W| E|Z|S` U|e|Z|S|f|a` g` V|e|Z|d|f|f
W|W|ab|X|W|Y|W| S|e|W|V|f|S-|W| |f| |W|W|i| W|f|i|U| |Y|W|
: |ge|W| W|f|S` Y| W|W|i| |` V|e|Z|W|W|f|o|d|W| Sg|X|Y|W|Z|W|
: i|Z|W| |f|W|W| E|f|S-|W|b| S|e|W|S|Y|W|g` V|d|WMI |W|e|Z|d|
oT|W|W|Y|W|W|S` D|S|f|W|i| U|Z|W|W| |` W|W|W|z|6|S|g` V|V|a|f|
|i| |e|Z|W|W|B| S|e|W|f|W|W|e|f|S` W|W|V|d|W| |Y|W| S|e|W|Z|
b|X|f| W|z|3|ge|W|W|V|g`]|W|:| S|ge|W|Y|B| Y|W|g` V|W|W|` S|U|Z|
T|W|W|E|W|S|T|i| W|Y|W|W|9|B-|U|Z|W| g|f|W|W|W| W|f|S|g` Z|
^|UZ|W|9|W|_ _|W|h|a` ?|W|e|Z|W|Z|W|g` V|i| |W|W|i|g|d|U|
~|o|bb|Y|S|g|X|W|o|Z|W|? |B|U|Z|W|_ |f|V|U| T|W|S|f|W|>|bb|W|
`g` Y|W|g|d|U|Z|W|V|W|Z| W` S|U|Z|e|W|W|g` V|S|g|X|W|g` e|W|W|
e|Z|i| W|B|^|Y|W| W|T|W|V|W|W|W| had|3|g|Y|W|X|Z|d|W|i| |W|
W|W|V|W|W|? |B|U|Z|W| |` |W|Z| <S|Z|d|W| S|ge|W|Z|W|i| o|d|W-
S|g-|W|W| S|f|W|g|e|S_ _|W|Y|W|d|b_ _|f|W|9|W|Z|i|b|X|V|W|
_ |f|S|ge|i| B|f|e|Y|W|UZ|f|W|W| 8|o-W|V|S|Z|` e|Z|W|g|d|W|i|g` V|
h|W| S|Z|d|e|f|W|S|d|S|b-|Y|W| |` W|W|V|W| W|W|B|X|f|W|e|b|W|W|
g` V|T|S|V|V|S|d|S|g|X|S|g|X|W| o|f|W|W|W|E|Z|d|W|Z|d|W|? |o|f|W|
Z|` |S|ge|W|S` W|e|f|a|T|W|z|7|f|i| S|W| H|W|W|W|W|8|W|e|W| |`
W|W|E|f|S-|W| S|d|i|W|T|d|a|U|Z|W|g` V_ |f|4|d|W|W| h|W|E|Z|S|Y|W|z|
6|W|_ |W|e|f|W| ?|W|e|Z|W|e|Z|W|]f|W|i| |` e|f|a`]|W|W|B|g|X|
_ |W|i|e|S_]|W|f-|W| b|S|S|d_ |g|e|f|W|W|Z|` _ |f|h|a|d|U|Z|f|Y|W|
@|W|Y|W|E|H|a` |i|W|]a^a-S|f|Y|W|i| W|T|W|i|V|W|Z|d|W|i|W|Z|
Y|W|f|W|G` f|W|S|d_ V|oT|W|W|E|Z|o|d|W|W|E|Z|d|B`]f|Z|W|W|

g` V had W W F ad W X S z d _ [f W S` W i f d f e Z f W l ` Y
I [` e f a` [_ @ B Z W] a _ W 9 W b d B U Z e X W S g X

% S l e S Y [L Z] g [Z d [e f d W Z f e Z i ` g` V Y g f e S Y [U Z z 3 T W l
i B d W E] W S` _ W W E F W W W W W W W Z B f W E] W S e e W W
Y M S` h i S e [U Z Y M S` Z S T z ? W] W [e f ^ W Z f e S Y [U Z I S T W
_ W W E a d W e] ` V ` [U Z ; Z d W E a d W z

% B U Z I ` S f o d [U Z] { _ W f W [W S` W W M % e a [e f W z 9 W S g
e a [e f W z

6 [W e Z d ^ W E f [_ W h W e f g _ f W b i f l ^ U Z z 6 [W
8 d S g W _ g e f W W [Z ` [` X W V e W Y W E U Z I W W W S e W
h a c b T W] ` Y z 6 a U z i S d W ` [U Z f W W f ^ U Z 8 W V e W Y] W f
e a` W i ` g d e a W i S e i [W h a c [U Z f W e Z` W W I [f f W
T W _ I W Z e W W W g` T W S` ` f W F [W W z 6 W T S g W f d S z
` [Y e S` l g Y W W B S d W [f Y [W W] a` ` f W W W l e a U Z W
E f d - W W Y W a z` f W 3` T [U e W z ; _ 9 d g` W W S d W
g`] ^ g Y e [U Z S` e a U Z W a d f W T [U W l g` S e e W i W _ S`
` [U Z ` S U Z I W e [U Z W i S e 6 [W e f ^ U Z W v a d l g f g` Z S f f W
6 [W e f d W W] a` ` f W W W S` Z S f W i W _ S` [Z` W
l g X ^ Y [` V [W 3 d W W W % S` ` [U Z ; Z d W 3 g e i W e e W W
9 W a e e W I S e _ S U Z W E] W Z [W I S` ` Z S I W E] W Z d W
3 d T W e b S f h W S e e W I ; e f V S e ; Z d o T [U Z W @ S U Z Z S g e W W W
G` V e a i W W g` V e a i W W @ [U Z f V S - W W W W W Y g` Y
V S Y W W Y W W Z f f W S` W e S e S g X W W Y W i Z` ^ U Z W
I W Z W l g Y W W S T W W i S d i W V [W 0 W S`] W b a [l W
W W g Z d e Z a` Y W g Y g _ V [W 3 g X W e S _] W S g X W W
l g ` W] W z

B i f l ^ U Z i S d [W S` I W e f d - W W Z W W 3 g X W g` Y z H a`
S ^ W E W W W i ` f W I S d g` Y e e Z d W z ? W e U Z W Z g e Z f W
i [W = S` [` U Z W [` V [W S g e W Y B Y W G` _ [f f W S d h a d

I [` efa` eföd fVWV Wg` YW8dSgSgeWV W : SgeWV YS` Y
 ZWfSgd d- W i [` l|YWV [` W VVI SeeWfSUZVeb|VWVWV
 = [` VS` e|UZ i [U WVVZdWELZöd WWSdg_ g` V ebd` Y
 i [WVW|gdbU] S^W [` W V W V l|YV 4W/VWg` Yz; _
 YVWZW 3gYWT^U ^VMSge W V WEM^WVSeeWV ? S` `
 [` W V W dZi Sd W 3` lgYSgXI [` efa` lg g` V lVWVW
 SgXWVWf Z|` SgXI g : [_ Wz

%d|` 6S_bXW{ dZd|WVW%BS- SgX=g_bW 9^WZ
 Tg_ efWz: Sg V|UZ Z|` }

%6S_bXW i SdWVeb|fl` S_ W_ [fVW V|Vbch^WV Sge
 [dVWVW V W 9dg` VVW|WDS] VVWVa_ TW TWWVZ` VVWz
 I [` efa` i SdXe|UZ dEdZ_ [fVW 9W|UZf` SUZ g` fW SgX
 V|WVdVW6|Vbch^WVZSffW Xef [_ W|dWZf_ [f eaUZW
 I Sd g` YWzE|WELZ|WV W V W3df;` ef|] f l g T W|fl W
 VV|e|WV bSSdEM|g` VV [hadSge i Sd fWVS- W V W
 DS] VVZVW` SZVWáTi aZ^V|VDS] VVWVWZaeVW` YV|UZ
 dZ` WVW i SdW S'e W|ELZS^zi [` efa` ^VFWV|W3d_ W
 öTWVW = abX7|` = dSUZ Wfi` fW ea VS- V|VefcS-Wz
 VV|Wg TWfW eUZ|W|g` VV : SYWELZSgVha` ^WZVW
 9VWefB VV bcdSeeWV SgXI [` efa` eDöU W ZWSTz3` e
 W|SgXfS` V|WVWV fWV VS- W| [f9`Seeb|ffWV öTWVef
 i Sd V|Wha` VV ` BZefVWVWV 8WefV|efS_ _ fWz

7dY|` Yi VVW6|W4a_ TWZSffW|i VZg` Wf? VVW
 i VVW V|VefcS-WZ|` g` fW V W V BgeV|dgbW VVfi dZ
 7|` WELZi Sd VDSgUZSZ WZ|` YS_ : [_ W V Sdg` fW
 W V W a|Wha` ? i dVWfSgT|` W|e|UZ TWV|ed d` Yeg_
 V|VfcS_ _ W V W V W eLZW_ WYVeS_ _ WVW|Had|Z_
 SgXVW B SefW|SYW] ^V W V? i dVWZSgXMI [` W e W
 ? [ffVWVW V ZWchfVWd|` ` eS^g` fWELZVWV] a` ` fW3` e

Wl` BZVd] S_ l Wj S` fWwV VS- WwV VS_ : S` VYWW
STYfW fw? WeLZWZS` Vi Sč3TYWZW ha` Ww
T`gf[YWEfg_ bXl SdV[W S` Vea hi ^[YSgeWw`gfW VS-
e[VWV W i W-W 9[beSTYg- Y[UZž

7deZ`VgVWVWSe6[` Y_ [fWw 8g- [` WWD[` `efW
g` VTaYVS` ` SUZdWZfe[` WVWVWVefS-VStI_g_ Sge
Ww? WYVZVSe[d g]a_ _ Wž;` VdWVaWdh[W? [` gfW
ZSffWwV[V0VWV_ [fWw 4a_ TWelZSWWZ[` fWle[UZ
YVSeeWl g` V VSe fčTeWYelZ_ gfl [YW0 W [dTWVWV
EfcS-WlaYe[Uzi WwV S`eZSTWleUZ` [UZfe4Ww` WwV
WwV Wž7ei SdSefli S` l[YGZdg` VV[Ww` WVBch`W
TWglZfW=` WbWi SdW YWdS` Yf ha^ž3ge[ZdWSTYVž
Yd WwV g` STBefYSgžg` VlgeL`SYWWW=` Sbbfödw
VdS` YW 9WglZ` SUZGd` lEBW Wž^g` VefgW[UZW
4[Wž;` W W I [] WZ[` fWV Wdhacbd` YWWW: Sgež
Xh` fefS` WwVdW? B` W[VUZfTWV S` WwV Ww_ [ffWw
Z[VWV VsgXWUZ`SYWWWVWg` Y[` WwV: S` V[VVWVW
S` WwV T[U] fW [Z_ öTWV[VWELZg`fW ž@aUZ TWad
Wl` SZWVWgYZVW` YW_a_ _ Wi Sd g_ Ww 3geVdgU
[ZdW9W[UZfWl g g` fWELZVWV Wl S` fW [` efa` dZa`
S` WwV=i dbWZS`fg` Y [ZdWbS` `g` YžA WTSd`SeW
e[VWV Wg` YW W i [UZf[YW@SUZd[UZž7di Sd` aUZ W
bSSdELZdffWw` [Z` W W W W fl S`e[VW0 dgbbWb` fl UZ
SgeW S` WwV W i BZdWli WwV? B` Wl[` ZW[YW
I adfi WZeWVWVWž7[` W3gYWT[U] `S` Yi a^fWw`ea
SgeVZWl S`e ea^fWw`l g W WELZ`BYWV] a_ _ Wž

%oS` `efVg Ww` Ww VAZdW` [UZfSgX SUZWli W
[UZ V]di SeeSYW; LZ eSY V]dValZi] W WLSZ^SgXe[VWV
ZSf W S`e YW`a` ` Wl eW öTWVh[WV Wž ? a` SfWž

%TWe[UZWZSf eVWVa` `W{

%@W|] W VbgdLg: SgeVZSti [UZ VWYS` IW=dS_ eW otWli W<SZdV_ [fWUZdVWz; UZ fcsYi V|WdWZ ` [eeW_ _ WZSSdWVg W žG` V [UZ eSYi V|d] W WLSZ^ _ [f eVWV_S_ ELZ'g- Š {

%G` V VaUZ ZSf W W_ [f eVWV YVa` `W` ;UZ]S` ` V|dl [W ^UZ YWVg V|V@g_ _ VleSYW V|WVf WEFVW i SdW h|W ` g^ e[VWz6Sei Sd_ 8WdgSd~ li V|W 8WdgSd aUZV

%S- V|UZ W bi] W _ [f W W 8WdgSd ;UZ ZSti W S^W eLZi Sd SgXi W žG` V [UZ eSYi V|d] W WLSZ^ žž

%LZi ZSfie? Sg^{ eSYVWV|VdfV

E|WbdSUZW otW V|W>affW|V/3` e W VdV-[Y? VV i V|VWV` YWi Sd eUZSgVW [` efa` ` aUZ W_ S^lgbU ž E|VefdfW_ [f dafW Sg^VWVW9V|UZVW ` aUZ [_ WZ 6 [W>affW|W_ [f [ZdW i i UZWf^|UZW 3gel SZ'g` YW dVZ e|W|9W [` W SdVSeW | [VW Wf^|UZWdV [d W V|V|BdV W W e f^|UZW3gX W eS_] W dZW] fWz? S` Vgd VS` ` W_ W|VS- [>VW ha` W^|UZW? [^|a` W Bda V V|W>affW|VWV ZSgbfE|UZ^|UZW i W ` [UZf V W W| [YW;` ZSf T|^VWV E|W Sd [ZdV gef [ZdEFW] WbXW [ZdFche| [Zd YWef [W|3` ebad žEaTS^V W e|UZ g_ V|W >affW|VZS` W V eLZ|WV eaYSd>V|VW|W] Sg_ ^W g` V eLZd|W] a` fW l g hW i [U fW 4VWZ` g` YW g` V W Sg` ^|UZW9W|UZf [eVefg` YW XZ|Yz7|^ VWS` IW =SfWad|W a` ? WeUZWhW|WfV|ZdW>VWeg` fWZSf ^W|Y^|UZ VgdLZ V W H| SgX ha` Ekef W W| HadZV eSYW g` V9`o| eX|eLZWZi [` efa` ZSffVWef ` [UZfe_ [f W| 3Ti [U] g` YW|>affW|Wgfg` l V|WVW ? [` eV|g_ Xd

OTWl g- g` fVfS` VISTWMI g-fVZdi aZ^|` WfBSdW
i g-fVWVW S` fi VS- V[VW[` Wd -fVWV` gdSgX
WV BSb[VfS` WZ@gd] W VVfBWW gdWw [d ^UZ
SgeTMSZ`fi i BZdWV[VW[` WVWf: SgbffWVW
Wg` WVVW` Wi SdWz6S`li [eZWVWVW
FVW AlW [We] W Wg`]fa` [WVW HMI]` Vg` YeZ
_ i Y^UZ] WYSti SdVSeg` dZi W W lgdUZfWz

G` VValZi W` W W a `g` YSti ea` SYeWVW
WV Bc`Wz6Sd` _ g-fW` S` XfZSfWz;` I adW SgeZ
YWcbUf]` S` YW` o` [Y-eZ_ S` STW[V W eZW
S` IWWW_ S` SgXWfcd- WVVW VMS` ` i gdWV
lg W W 8fYWW` 9` SgTWz6 [Vfcd- W]` V[W W Z
YWaW i Sd XZdFWW: oYWZ[`g` fVz7e] S_ [Z_
had S`e eVW eZa` W_ S^ [V[W 9VWV YWVW
g` VS`e_ oeeW [UZfi W W f W W SgbfW VZdSW
had [VWZwz3ge W W G` YW [eeW had [Z_ Vd` Y W
>Bd_ `SgfWf_ _ Wz6 [Vfcd- W_ SUZVW V W Vg` Y
g` V` VMS` ` [W [YW Efg XV Sge V[W g W W V W
9SeeVZ[`g` fVZdFW [VMSgXW bSSdHM] SgXefB W
i W W 9W oeeW WafWi gdW;` V[W 3gYWT^U
W [W V W [UZi [` efa` li a W Sd6 [VW SeeW o` W W
W W Sgbfcd- Wg` V` SUZ W BZefW 4[Vg` Y] W W
X` X? [` gfW W W fi] S_ W 3` fi SdW` S W [W
W VSe 4gUZ _ [f W W g` TWZdVWVW EVW Y W Sg
ZSffWSe` g` eW FSYWgUZi SdG` V [W W] W W
BSb[W SdVWUZB ` [UZi W ha` Z[W ZSffW eW W
8W VZSfWg` V[VW8SeLWf [fVWfS` WZ

7dT^W W W 3gYWT^U S_ aTW 7` W W Efg XV
eVWz3gXMS` W W EVW W 9SeeW SdW VUZB [Y W

DSeZI g_ Wf Ysd] Wj VB` Yef Sg a_ _ Wlg `SeeWf
 ef[WVWV[VfFgXVZ]` g` fWlg` VöTWcGWFVW[VeUZ_ SW
 9SeeV7ei Sd` Sföd[UZ Wj XSUZI SZ` e]` ži [VWVi Z` Ž
 ^UZi YST W] Wj SgeVdUj ^UZW/HMafI _ [f VW Bda`W
 lg ebdMZW g` V[ZdW` VbW SgXgegUZM STWVWi Sd
 Wj h[VWlg g` YWi Z` ^UZW/HMZSfWlg_ g` TW Wj flg
 TVM WžI W` Wj WefM[VWVUZ[W] a` fWWh[VWVUZf
 Wj W 3` X^ha` G` i aZ`eWj hadUZöfi Wj STWVWi Sd
 ` [UZfi SZdUZW ^UZi VS_ _ S` [Z_ YSgTWi ödM7d
 ef[WV[VfödSgXg` V Wj XöLZFW[UZM] BeYW9 WgUZ
 ` SUZ eSgdW 4[VdUZ`gY[Z_ WfYWWž4VWV W 7]` fdf
 eS`] VSeEf[_ WYW [cdSgXW S Wj VZS`TW` SgfefBd W
 ZMSTž: [fWVW Wj DöU W] a` fWVdXZ W i [VWVWž
 _ S` eWj WTSgWfD[[YeS` lgYS` eSdFV7]` VBSd[W
 BXM WVM V[VMS_ S` WdW 7` WWW >a] S`e[9S` YW
 i Sd] S_ YgfWdW-[YEW]g` WWlg_ Ef`^eS` Vž6WISfW
 ? S` ` İ Wj Wj SUZYMS` YW i Sd eS` VS` Wd Wj W
 g` Vi Sd[` Wj W I adi WZeW_ [f Wj I [df hW [] Ž
] Wj Wj Wj efB_ [YW ZS] W SeYW`g` YW? S` _ [f
 g` YZWgdW G` fWSc_ Wž7[W9dgbW ha` >WfW V[W
 _ [f [ZdW 9` BeW [` Wd: S` V VSeS` Wd TW`TSUZfWV
 V[VW V Wj

%LZ ZSti E[VZi [UZ YWgY WVMW aWWh[VWVUZf
 ` [UZfI eSYWVWISfW? S` ` İ aTVMW] S_ b gef[YeW W
 ELZg`fW dM] fV%G` V E[W a`W _ [di Vj_ SUZM E[W
 ZBfW] Wj VB[fWj` WdYS` I W WWW 4gW Wj

%o [M[VW]g_ FVgXV [ef öTWZSgbf Wj VB[fWj eSYW
 WdI [df [` Wj Wj e[UZi SgXV[W8]` YWb[fl W YWöfi fl
 i Wj öTWV[W Vj Wj Wj YWj

%d` = dW [ef i [WWW'S' WWW eSYWWW'S'fW? S` ` hWUZi a _ Wz7dZaT eW 9'Sel g` V eW WELZg'fW dW fW eLZi [WWW%gX;ZdI aZ`{

6WELZSd'hadbd` YWWWVS_ eSbXAS` eW W _ SYW dW: S'e_ SUZfWV WefSg` tLZ eZ` WWWVWg` YSgX g` VStI g` VVSe4[Wli SdhWUZi g` WZi [`efa` Yl` Y S` V[W VWg` V]S_ _ [fli Wi VVW: ST[fWV'BeW lgbU] ž6W'S'fW? S` ` eLZ[W eW VWWW] W YWWW YS` IW >[fW hWV eW] g ZSTWž

%WV eV eZdh[Wb'fW'S'e [LZ]l eSYW [`efa` ž%W _ öeeW eLZa` W V SUZeeW? S` ` YW eW eW l VZW [LZ YWadWi gdWž

E[W]i` ` W eLZ eLZWV` ` W l i [WV'hadWVDWž` g'f[a` SgeYWWWZSfz? WeLZW[_ W W 3'fWli [eW i [d tLZ Ysd` [Lzfeha` V[WVLWfzi [d]i` ` W` gd[4öLZW VSha` `WVl g` V i Se [` W 4öLZW eVfif e[_ f h[WVZf` [LZfz; LZ i ö-fWWW WZdW? W g` Y VScTWž;` W 9WZ[LZfeTöLZW i [dTVZSgbfW VS- Vse>VW hadWVDWž` g'f[a` ha`efB V]YS` W e YWWW eV'S'eZg'fW6 [WZdW tLZVG` fWVcbU] g` YIG` YWVZž f[Y] W 7'WV~ eLZ[_ W'S'eS`W i Sei [dg` ehadfWW]i` ` Wž: [W]` >a` Va` ZSffW[VVch-V? SeeWWWHa` W ha` WVI [WV]eIlg_ 9dTIW [WVgY]lg W eWž6[W : B` WWW? WeLZW TWS- ` [LZf W _ S^ELZgZMS` W 8ö-WžE[VsdIVWWW li i` Xefg` WWS_ FSY Yl` YW_ [f ` W <SZdWha` WELZg'VStI eLZ[VWV]lg lVž f[` W W L[_ WžG` V YVZI W[YYST W W [Y W W]W gdW bSSdFSgeWV ~ =Sb[fs'efW i gdW e[WWS` ` f -l V[W dWZ g` V_ BZf[Yi SdWž;Z` W YVzi dWS`W i Se_ S`

`gdTW[fl W]a` fV[E]W aZ` fW [` Yda-W bdBUZf[YW
: BgeW _ [fVdW[Y6[WefTafW XZdW[` 3gfa_ aI[W
g` Vh[VbB` [XWI SYW g_ ZW f d`]W 5ZS_ bSY W
fdgYW Lk[` WZofW{

6WSTW? S` ` i gdWSgXW _ S^WWW[Y%Lk[` W{
dVWWSgež%a_ [eZI VS- E]WSeW BZ` Wž6SeeWVWW
_ [dWfYfW W] [UZi W` [UZfi Sdg_ žUZVSUZfWgd
WVW VS- [UZ eWf <ZdW] W W Lk[` W _ WZdYVWZ
ZSTž7[XUZ ha` W4[V BUZWVUZi g` WW e[` Ve[W
6Se^WfW S1VS- [UZ W W SgXZSfW SdTW_ 4WdR [e
_ W WUZi BWA žG` VVSei Sd~ ` g` l [UZ] i` ` fWZ` W
VSe6Sfg_ ` [UZ ` W W STW W_ g- X` X[Y <ZdVW
eW ž@Sföd [UZi SdW gdXdV[V VWWZW SgeYVW
E[VWfVZWž

%Se_ [f W W Lk[` W [ef ` [UZf eWdi [UZfY] eSYW
I [` efa` YWg^Y%Wlebd` YWWWBg`] f [efi VS- V[W
=Sb[fs[efW ~ lgeS_ _ W_ [f W bSSd-gdefW BScdW
g` Vea i VV V[W ha` [Z` W ^VW ~ V[W W W V[W
7dW SdWž3 ^W i SdXdeVWSž6 [VS` W W ~ VSe W Ž
XUZVHa] W3dVW~ i SdW [ZdW] ShWžE]W a` fW
_ [f [Z` W _ SUZW i See[W a^fWžE]W a` fW e[W SUZ
=S` SVS hWUZ[W i [WSe ^VW H[VZ E]W a` fW _ [f
[ZdW Fi UZAW dZSXMi W W [Z` W bs-fW E]W a` Ž
fW V[W VgW [f W W 6[` Y VSe V[W W dZi B I [YW
=SfI WZ[W SgebW eUZW `SeeWž? S` _ g-fWhad [Z` W
V[W öfl W [VWž <W =Sb[fs[ef Y[` Y_ [f W W Fdgb
>S] S[W g_ ZW V[W{

6WSTW? S` ` i gdW [Wg_ ^VZS W%S] S[W {
eSYW %Se [ef SgUZ W I adf VSe [UZ W [Y ` [UZ

_ Vzd VZi d ZSTV>S] S[W 6Se hVWf _ [UZ dUZfY
 `SUZ VS_ S'e l g d U] i ValZi TWf [_ fz; UZ Wf ` VVW [UZ
 ~ SUZi W [ef Xgd ZFISd`S` YVZW~i VS Y]` Y [UZ_ S` UZ_ S^
 S_ Fa` `fSY SUZ_ [fSY]` VV: kVMSd l g_ V[Vd b VVf
 [Zd VDW dUzi [` YW l g Zi dVz: VVeSd_ VV= SfZa^] Wf
 <gVWf;` VV~ S^Vi SdhVf dVWzG` VVSi SdW 3baefW
 ~ ` VV[UZ] i` ` fW [UZf_ VZdeSYW i [VWZ[Vf STWfW
 i [d] ^UZ_ [fdV- VVW DW Wf S] _ [fdV- VV VSe i Sd
 VZ7d TW d fVW VV 4gd UZW` [UZf dZ VZfz]>S] S[W] i
 eSYVWf }>S] S[W VV 4agd V[e] W e b V[UZ VV] Wf VV
 ZVh UZ VVW = `SeeW] BScSefW ~ VSe i SdW S` VVW
 >[V]` Ye i ad ha` [Z_ žG` V: kβ W ~ VZSf e[VáZ` W
 i V[VW: kβ W YWS` ` fz 7d e b d SUZ ` Sföd [UZ ha` VV
 >STagd BScfV hVf VZ W E]V

I [`efa` ZSffVWSe 9 VZ1 VS- e[VŠ` W] S` VV had[VZ
 dVWVz

%oSe [UZ i [d] ^UZ i [eeW i a^fV eSYVWf %oSd aT
 E]VWSe 9 VZ^ ZSTW VS- VVf _ Vzd 8d VZV ZVh UZf
 S'e [` VV L V W I V W E]V VZdi [VW ? W e Z
 TVŠ` Wf1;` VV SfW L V W i SdV V[Vd VZ W V] W
 >VfVŠ` VV E]f] W {

%6Se ATVZSge] i Sd VV S f W? S` ` Sge eW W 7d` Ž
 ` Vg` Y]` V[V6 V S f V

%6Se ATVZSge] i W E]V e i a^WZi Se [UZ` g` YV W
 i [eeW_ i UZ V Sd V V V V V V e f S` V V V V V V Z S T
 S'e f [V V V V V V l g TVŠ` Wf i W X SUZ i V e V V Z
 i SdW g` V_ S` e V V Sd 1; e f V l g_ 4 V e b [V S f e SUZ W
 VS_ S` e]V [f] 9` B] V V: V] S` d V W g` V V V? ö f] W
 ST V_ W_ g- f V i W _ S` S` [Z` W had b TW] S_ l

6WISfW? S` ` eLZ[W S` YafWYf` SUZlgWW] Wz7d
fdS`] Wefg` YMSZdW H[WfWewW W4[WfW Sge VZWV
S` fi adfWV

%S(eSYfWV %VMSZW WYV W W _ S` had[Z` W
S` V[W? ofl Wd ž6SehWfW/ea i Sei [VDWbWfz? [d
TVSYfWSebWV` [UZSgUZ` [UZfSTW[UZ ZSte` gdlga
YMS` ž? S` _ g-fWVW i [W_ S` i aZ` eSYW i ödW

%G` Vi SdW öT[UZ ~ [UZ XZdW gdVSe S` İ i Se [UZ
[` 9WUZ[UZfeTöUZW YWVW ZSTW İ i SdW TWV[VW
>WfWg` V[ZdW4W[WfW öT[UZ] W Wha_ 4ödWfW
W SUZ ZWg` fW[` WWD[` eW l g efa-Wf

%d` W ha` [Z` W Zsf _ [UZ W _ S` Yafa-W{ l eSYW
WISfW? S` ` ž%bZ Wf` ` W W [UZ` aUZ VScS` İ S`ei BdW
WYafW YWVWz7ei SdS_ 3TWW` SUZ W WIDgWZ
dMSffs ~ V[W>WfW SdW [_ WYS` l Sg-WIDS` Vg` V
4S` VLS_ 3TWW` SUZ W WIDgWMSffs ~lg` V[UZdW W
SgXWIEZS WfTgk 3hWgW` W W g` YW 4gdUZW
Z[` W ž6W i SdW dUZ[YXW W: Wd~ eWVW: W V
Lk[` W dZi SdW? S` fWz7deZi S`] fW_ L[U] ISU
öTW 9VZefWf g` V [UZ Tg_ eVSGeHfWZW YWV [Z` ž
ESYfW }=i` ` WE[W [UZf SgXSeeW i aE[WVZW] eSYfWZ
ESY [UZ, }9` SgTW E[VW] VZSTW VSehWMS` _ fWf daffa[d
S` W YMSUZfW] ESYf W } ;UZ VdV V[dVW = dSYW g_ İ
i W Vg XWZ i [def ESY [UZ, }E[W]` VTW Wz9` VUZ
_ WVV[UZ E[VW] Ba`[l W G` Vi a`W E[W_ [de YSgTW
aWV` [UZf W VVf _ [dV[W S` V SgXV[W dgef g` VY[If
_ [dW W Efa-l VS- [UZ g_ W : SSdg` fWf W W 4ge
YWaWi BfW@S[[UZ i SdVS_ S`e` aUZ` g` Yg` Vi a`TW
[Z_ YMSVWV WS` YW VS Š {

7[9WZ^Wd: [XaeY] Wf öTW] S_ I [efa` ž6[W
7d` `Wg` YWWSfW? S` `Wi Sdi WfW [UZfeS'e W
=WdUZfZSgXWha` 7[1WZMWž? S` ZifWZ` WWS` Ž
1WFSYSgeXSYW]i` `WiaZ` WfW WfI[YWf ö` [YW
3ge]g` lgTWa_ Wž6[V9WZ[UZfeS'eWg` YWfW
BSdW]a` `fw]gd: B` W SZdeW` -S[eW]a` `fWeaYsd
ha^]a_ _ Wi SZdeW ž7d_ SUZfWf W` WfW HMe]gUZž

%h[WfWZf ZSTWUZ_ [UZ` [UZf Wg^f[UZ SgeWcbU] f[
_ WfWZ%boSe [UZ eSYW i a^fW]ef X^YWWW, E]W] V
eZa` `S` YMSgXWfWfI WžE]WZSIW V]W B` WZdW
>WWe had WfDWA'gf[a` YWfž;_ <SZdW#+'S` lg_
4W]b]Wi SdW E]W]Za` Wf SUZewžI ödW E]W SUZ
Wf]i ad` E]W]UZ` aLZ Wf` `Wf]i` `Wi eSYWf VS-
VSe>WfW #+'S` TW]WafW]eUZ WZfWi SdS'eZgWf

I W E]W BZ]W]i` `fWf i ödW E]W]Wf]VS_ S'e
S'eZgWfWfWi a^Wf

6WfSfW S` `T]U]fW SUZWW] [UZ SgX]Wf]WZMW
WfI gcb]Wž4W]UZf]WfS'e]ghadfd`] WfW 4[Wf
Sgež6S` `ebdSUZ Wf_ [f Wf Wf Vg^VeS_ Wf bZ]'aeabZ]ž
eLZW 3geVgU] [9Wf]UZf]S'eZSTWZ` Vse4[Wf_ [Wf
Wf]_ _ fž

%Lzi WfHi SeE]W]a` _ [dWf SdWžE]Wf a^WZi dWf
VS- [UZ ^Wf]i [Wf]g` Yi B]Wž6[Wf WfW? WdLZW
i ödW S` fi adWf i W` _ S` e]WfSYf e]Wf B]W ^Wf]i
i [Wf]g` Yž? S` [efTW=dB Wg` V9Wg` VZM]i W`
_ S` g` Y[efžI W` _ S` [_ Wf 3fW]a_ _ f[ef_ S`
`[Wf W]dea YS` l [8ad ž;UZ ZSTW_ S` UZ_ S^Ti eS`
_ WfW]d`]W8ö-W]lg ^Wf]g` V_ Wf Wf]SeW_ SUZf
_ [dXgdLZfISd]g eLZS WžEWZēZaWf]e]Wf_ S^ [Wf

@SUZf _ g- [UZ dSgež3` WdWVfeē` VVSi [WdYda-W
HadWMM W _ S` W S'fW? S` ` [efz? S` ZSf` [UZf_ Vzd
V[WVW EadWž= W ÂdW_ [f W W I V[W I VSe [ef
eLZa` eVdh[W W Wž;UZi SdSef VdW[Y<SZdW [f] W W
8dSg_ VzdI geS_ _ Wl aTE[WēYSgTW aWV [UZfz: SffW
] W HMS` YW VS` SUZ VSe [ef VSe 4WfWWSd` ž

I [` efa` V fV[UZ YWW W W 8WefW_ elgdU ž7e
ZSffW W W Li W i V[W g_ SUZ Wž7di a^fWWSW
` aUZ W _ S^4[W TW W W S'e W S'fW? S` ` bī fl ^UZ
SgXfS` Vg` VZSef[Y` VSeēf`] W W B[ea[d` W W 7U W
W >a] S'e eLZgd W 6 W I geēf ^UZ W S^TW [f W_ SUZ W
ēUZ TW W I SdI [` efa` eS` ` aUZ W bSSd? [` gfW VS
g` VefSdW eW ^W W 9` Sež=Sg_ i gd W W eUZ TW g-f
VS- [Z eW V 8ō-W [W W Z]` SgeSgX[W f dS-W d gYWž`
Zi UZefWeli S` l[Y<SZdW ōTW W W W i ōd W W [W da-W
g` V W X SUZ W 8 S Y W %o.SdVSe > W W had W W D W a` gf[a`
TW e W S'e Z g W W X d S^ W S^g` TW fi ad W W W W
_ ōe W ž;_ 9 d g` W W Sde W W W e Z g W [UZf_ VzdI g
TW fi ad W VS V[W S S dh W e d g W Ø TW W W W W W
S'fW I W` [UZf _ eS` W W SdW VSe W W L W S'fW_ [f
W W S` W W l g h W W W Z W ž E W W W ` W W e [UZ i aZ^
W W W G` l SZ^ TW W f g` Ye^ a e W 6 [` YMS` W W E d W _ [f
W W 3 d W e] a^ W W V W e g U Z W S U Z W W W h W ad W W
8 S Z d S V b g_ b W W 3 g e V d g U S g X W W 9 W U Z f W W
B` Yef h W e f ad W W W E L Z i W W V W e S g T i [d W S` W W
i [` V] W W ? ad W had e W [Y<SZdW, S T W S^ W [d ^UZ
S g X U Z g` d M U Z W F S f e S U Z W i S d W [Z d W 9 W U Z f e] d W
W f e L Z i g` W W ž E W S d W i [W W B_ W e M V W a Z^` W W
S T W] W W y da-W 9 W W e f B` W W W W W W i` ` W ž G` V

i W W]W Wd` Wg` Y_ VzdYSTg` VS^VdZd (UZW
4WUZFWVW6eUZfi SdW~i W Weai Wfi SdVS` _ g-fW
V[WVZSgbfg` Y WVBScFW V[WVWVeTW` Yg` YW Wd
? WeLZW hWVWf l g ZSIWl S'e i SZdZ[` YWa_ _ W
i W W i W V] W W? S-efST_ VzdYSTII WW_ S` ZBFW
S` ^WV]i` ` Wl g` V` [W_ VzdW W YWV i ödW

; V[WV 3gWTP[U]S_ eW 9WS`]WS` Ybifl (UZ
lg_ Ef[^eS` V7dT[W eVWg` VT[U] fVZaUz7dTWS` V
eUZ[` W W WYW 9SeeW_ [f W bSSdg` TWUZFWW
>BMM V[W i [eLZWI aZ ZBgeW hWfWf SYWzG` _ [fZ
fWISdöTW eW W =abXZ[` YW VdW hWZIFW? WS^] gZ
YW I V[SgeesZM S'e i BdWeWVW_ S` hW a W W W Wz
7e]S_ [Z_ ea had S'e] W W W V[W W W @Sföd[UZ` 7d
efS` V had W W 3 fi SdW SWW [` W W W V Se FSYW gUZ
Y W Sg ZSffW

7[` VZW 7eUZdW W VgdZl gU fWZ` ž7ei SdeZa`
Z[` dUZWV YW SYf YW W W V Se 4gUZ öTWZSgbf l g
]SgXW g` V W ZSffW eUZ YW Uzi adM` [W [W W [` V[W
@fZWW >S W e l g YW WzG` V VaUZ ZSffW [Z` [` W W
3gYWT[U] I S'e W e W W 9WS`] W l g eZi V W W W SgIF
ZSffW e W V8ö-WS` l ha` e W e fi [W W Z [W Z W W W Wz
9 W W W W W ea UZ W e W e f_ i d W W e LZW; _ bg^e W Za W W
eUZ l gi Sbb` W l [` W W W V Se FSYW gUZ TW S` ` ž

9 W UZi W [Y TW W W f W W VS- W W >SWW aTi aZ^ W
Xef W g` Mi S` l [YGZdi Sd` aUZ [_ W a W W W S` f W
i gdWz; ` W W 9 W Z l Vd` ` Wi W [W W Sg Xg S^ W l S'e
i W W Sg X W W 9 W e W T [W f c f W VgdLZ V [W ö d W ž
8S^e Y W S Y fi gdW W a` ` f W W Y Sg TZS h W e [UZ W I VS-
W e [UZ` SUZ D S e W W [` YW W W g` V [Yf ZSIV

6W>SWTWfI WZSfVWWSWW VBWcaVg`S_ bW
S` YMō` VV V|VWV W g` eSgTWMI STWIS` ZM_ W VW
9WgUZhMtdMWW7di SdW VV SeWZ|YfZdVW? S` `I
YWdVZ|UZg` Vhad õTWYVWYfI_ [fVW V|S` YM YgfZ
_ õf|YW @SeVg` V_ [VW 3gYWI V|Wha` VW V|U W
4d`WYBew` YS` l hW VVf i gdWZEW : SSdi SdXef
i V`I STWew` W3gYWTdSgW i SdW TgeUZ|Yg` V` aLZ
Vg` |VZEW` Wd`Wew` WScFWg_ efB V|UZW 4WVWg` Ž
YWg` VeW Vsf_ aV|eLZVZi Sd VES_ fSU WVV|VW
eW V|7dUZW`g` YW W|` fVWVfgVWV 3` efdUZi S`eeW
VWV >[Vsf aVWh|VWVZf VV ? ge] WZ

%bZ V|S` `fV|V|eZa` SgXWVfcd-V| eSYVW|eaXdz
%V|V` VVW: VV W|V|SeBaV|V|Tg_ YV|Sg ZSfz6Se
i SdW ZVH|UZWBSb|V| i [d`|UZ ZVH|UZzEaYWS` `fW
5d_ V|Sb|V|ea eSYV_ S` XbZV|Ea V| BSb|V| [dV` |UZf
_ VZdZVWVf eV| ~ aZi |UZ_ i UZfVSYW| eV| X` X|Y
<ZdVZ 7deSZI |` efa` õTWew` Wd`WYBewZ|` i W
S` ž%oS` `|UZ;Z W_ [fV| Se4Vf|_ fV_ V|VWV1AVV
i a`fW E|V|e|UZ` gdVWV_ S`g_ eVZW|

%bZ |S_ YVSWVhadV|I eSYVMI |` efa` li YV| VZ
%ba`fW gdVWV_ S`ZVW| eLZSgWz;UZ egLZW |UZfe
4Vf|_ fVZ

%G_ ea TWew| eSYVWWS` VWM%WV` |UZ YSgTW
|UZ Z|fV|W |UZf|gX|VWV eVWV|i` `WZ 7d_ SUZV
V|VWf|Zg|V|VWVWVWg` Y_ [f eV| V|V|ZV: S` VZ
%V|VZW SeV|ef, Vd>SWW|ef`V|_ i UZfV_ S` eSYWZ
G` fV|g` e YVSYf V|3` f|cg|f|fVZS` WV|ef ea Ygf i [W
VWV|Yfz= V| V@SUZVSYW_ VZd`g` V SgUZ |V| 3` YWafz
? i TWBad WS` l9`Se~ S`V|V|V|S` YeS_ |` V|V|dUZV|

G` V V[W? Ws^YWWefß Wwē V` Sföd[UZ Yd -fwwē
W WwUZ_ a1W i adWz;UZ ZSTWēf <SZdW] W W
? Wē YWUZFW_ VzdYWZWz

6SeWVWVSW[` W W Sd[I [d [UZ] Wg` YW öf[UZ
ha^Yw/c_ fi STWVYST Xef] W W 9WwefS` Vha` W W
Ywē YefWI WfVSq` z6WVWVDSg_ SgXW 8g-TaW W
i SdeVzdTWZdß] fi VS d` YeS` W W I ß W W WfS` Y
lSZ^aeWwefSgTFW[WwßZ_ W SgXWUZ[UZFWi SdWz
;_ ELZSgXWefWefS` W W FdSYTdWUZW ha^ELZdSgTW
g` V @ßW I STYWgfl FW ? W- W I 8W W W Wē _ [f
STYWdaUZWW = [YW hWwefW W GZdW V[W aZ^
` [W S`ei [W W YZW i ödW] g` V W W hWUZ[W W SdZ
f[YefWELZg` Vž@gdSgXW W F[eUZUZW [W W 7U WSY
S^W W W W = d_ e] d_ e~ 'SU [W W ELZ` gb SIS] VaeW
3UZSfTaeUZW g` V W W W W W ~ I 6 [Y W W W a SgeesZW
S`e]i` ` fW[UZ W Se;` fW W S` fW V Sg` fW TW W W z 3` e
I [` efa` lg W W F[eUZUZW Z]` öTWUZ` W W W W W W W
4[U] SgXW W dg` W W YSffW 9W W efS` V W W efS` [_
>S_ bW[UZf dZ] _ W W W g` V W W SZ_ [Z [V[W S` Vž

7ei SdW dZi W W EföU] 9` Sel SgXW W W W W W W W
STYg` W W SgXW W W W W W SUI S`ea Xef W W W ST] gWz
7[TWa` W W ei W W W Fa` I S`ei f d W W SgeDW W i SeeW
ZS W W ai aZ^ W W Sd W [W W 4WUZS W Z W W W 9` Sel
S` ž;` e W W ;` ` W i Sd VgdZ V[W dg` W W TW BZW
h W d - W W W e W e_ W W daeS Sd W W 9 W [W W g e W W
VSeS` W W W daeVa W W W W W W a` W W [` W W W

%oSe[ef VSe[XSYW [` efa` Wfl öU] fž
%d W ac^W W eSYW W W S W W S` ` ž W W g- Sge W W
;` V[eUZWA W W efS_ _ Wz? S` b W W W W W W ZS_ [` e

9'SeWlgTWfWz6Sei gdWadöTWZg` VWF<SZdW ea
YW SUZfzH[VMWZf eaYSdeZa` had 'ß YWMLVf` SUZ
[ZdW 3geWZVlg eLZ^WVZ

%e [ef W eVZdeZi` Wl9VWefS` V| _ W fW |` Ž
efa` ž

%fi Se eVZdeZi` Wl eSYVWWS` VWS` W| W WZ
%oVflgfSYW[If W [LZh[VW6[` YMa` WWW_ S` VSe
eSYW |i` ` fW 7dZgefWZ@g` l ea`fW E[VWlgX^Y
]SgXVi a^Wl ea öTWSeWUZ W;Z` W Xdh[W6a^Sž
;UZ|S` _ [UZ W WLVf Wl` Wl hi a W ea^ZWEföU
SUZFBX` VYVdSUZFBfWg` VVS_ S`ei SdWSUZFBX` V
~`g` [UZ|S` ` W [UZg_ dVZ` Wl WWW^eW W WY
9WZ3TWli WZSFZVflgfSYW aUZ W SeöTdYXdWZFW
3` f[cg[ffW ~ XdV[W W[YW V|WV` aUZ Y|f|

I |` efa` TMSZfVeaXdfVh[W6a^Sdg` VefW fWW
TWZdW 9VWefS` V|` eW VFSelZVl Se [Z` VSD`
XeWVi Sd` [UZf ea eVZdeW VEZi` ZVf ea` Wl W
YW[eaW7fi SdVse[Z_ S` ZS Wg` VVSgXZ[lgWfW
eLZ[Wl VS- W W W S` W W Ydg` VhVUZ[WWWLVZ
SfWIS` YZi dVZ6Sei VUZWdWVi SeVSDfYV9` Sei Sd
` [UZf i [W W YWiZ` ^UZW9` Sel g` V WZSffW ea W Se
` aUZ` [VWVZWz6W9VWefS` Vi SdVgdZeW Vá WŽ
TSdW@gfl` aeY| W VabbWS` l[VWMA Ti aZ^WVWSF
]a` fWVS- W hWl gf^UZ W _ S^S`e 4dW VUzi W W
YWSUZf i Sž7di aYeVZdeZi Wl|` eW W FSeUZMSTW
lg_ 9`öU` TSgeUZFW eW [UZf eVZdSgX` 7e i SdSgX
X^Wl eaYsd|_ a_ bca_ [ff[WVW XdW BScfW [fy^W
W W VUZW|` eW W 4Wfl lg ZSTWž3` W3` fW` g` V
VS_ [fS^WELZi` W- i Sd|_ _ W W i W[YhVUZf|ž

6WISfW? S` ` i Sd_ Wj ^lUZ ^lVWWei ödM|YWdYWadWW
`SUZWW WlV|Wh|Wl6a^SdTW|a_ _ W ZSffWzI [`efa`
i gdW| `Sd VS- Wle|UZ SgUZ_ [f Vd|W|W|eaYsdl i W
lgX|WWWYWWW ZSffWz

%ATW [ef` aUZ W S` W|W|L_ _ W| VSeE|Wh|W|W|UZf
YW| V|W|UZf|YW_ _ i UZFW{ |eSYFWWz%eefWz ` [UZfh|W
Vd` ž@gdW| bSSd? i TWeföU| W| W i [dz|` SgXW|W|
i [dV|W|W|S_ bVS`e4W|UZfg` YYWöYW{

7dl ö` W|W|V|VS` W|W|S_ bVS` g` VY|` Y_ [f YW|W|Z
fW| DöU|W|had` V|W|V|W|SgeY|W|W|W|F|W|W|Z|` SgX
g` Vi W|W|V|gdZ W| W i [| |YW 8`gd|` W| L_ _ W|
VSe| W| W 3ge|`|U| SgXV|W|F|dS- W|ea` W| SgXW| W
YW| SefW|W|: aXg` V|W|W| S`Vha` ELZad efW|W|ZSffWz
I [`efa` TW|W|fW|VS- V|W|? i TW` aUZ ea SgXW|W|W|
i SdM|S`ei |d|W|SeL_ _ W|TW|aZ` fž7|` F|W|b|UZef|W|W|
`SY SgXW| 8g- TaW|W| W| bSSd4|`W|W|Z|` YW S` W|
I |S` W|W|g` V|W| f|W|W|V|gdZ|Y|W|W|W|W|>W| efgZ`i Sd
S` W|W|a W|W|=S_ [`Y|W|U| fž7|` VS|f_ a|e|UZW|S` VgZd
g` fW|W|W| 9`Seefgd g` V_ [f W|W|W| Li i`X|W| | W|Sff
f|U|f|W|SgXW| =S_ [`e| ežG` fW|W|W| 8WefW|efS` M|Sef
W| H|W|W|W|W|L_ _ W|e W|` W|_ W|W| W| d|W|W|W|4W|W|
SgXW| ` aUZ V|W|? Sfd|f| W`SYWz

%o [di aZ` fW Z|W|T|e_ W|W|W|Sg efSd|T| |eSYFWW|
SfW? S` ` |ZS`T`g_ 7` feUZg`V|Yg` Y|T|ffW|Wz%W|f|h|W|Z
] SgXW|UZ V|W|? i TW|W|e` SUZ WW S` W|W|Wz6SeZ|W| [ef
W| b|SUZfha`W? SZSYa` [TW|f| a|W|W|i |d|W|W|W|S`e
b|UZf|Y|i W_ `S` V|W| S`I|W|Z|W|Sge|TW|a_ _ W|)i` `fW|
3TW|E|W| W|W|h|W|_ gf^lUZ ` W|W| VS- W|gh|W|B`Sf|
W|` L_ _ fž

7dZ[V V]W S_ bWZaU g_ VW YS` lW DSg_ l g
 TWgUZFW g` V[` VW i Sd_ Wl YWβ_ b W >[Uz eSZ
 VSeL[_ Wl_ W]i öd[YW` SWWSgež6gdZI [`fa` e
 =abXgeUZFWW9WS`] WWS- W hWl_ gf[UZ YS` l `WZf
 eW i ödWVSeL[_ W]dW bSSd6a`Sd[` W]l aUZW
 lg_ [W]i W _ S` `gdV[V9 V]SZdSgXqUZlg` W_ W
 i SYW7ei SdW fa`Wg` _ i Y[UZW7[`S`1 WW WYVWZ
 VScgX [W]S`W [W-STWVSeL[_ W]ZsfW [Z_ ea
 W] Sei [W W] i W] W] Wβdf S'fW7d[` Wg` Y YW] fž
 7e]S_ [Z_ hadS`ei ö-fW]YWSg]i [W_ S` e[UZ XZ'fW
 i W _ S` [` W]W ea[UZWL[_ W]_ >W efgZ` WW
 W]W a WW S]W]eS- l_ [fW W8ö-WYWW VSe=S_ [` Ž
 YffW]g` V W] W F]W]eWSgXW] =S_ [` TacV, YS` l
 S`W] YS` l e[UZ W] aZ W]W S` V] W]W W TW]TSUZFW
 aZ W]W V] [_ W]W]W] W]W]Y]a` `fV]W S` W]W
 >Sgf S`e VSe Eg_ _ W W] = W]W]g` V VSe X]g` V[UZW
 F[U] W W]GZč

%G` V] W] W F]W]ead]_ gd_ W]W]g` i [^] öd[UZž
 %Z]eSYFW]S'fW S` l %UZZSIV [W]W] eha` V]W
 6[` YW TW]W]W]Zlg f]W]Z; UZSIVa WISdSgUZ` [W]W]
 4WöK[eVS` SUZH]W]öž6ad VčbTW[` W]W]7U W]W]W
 E]W]W] ZöTeUZW = `Sbbf[eUZWžE]W_ ö-fW S`W]` Ye
 ` W]W]UZsd [W]S` Td` YW` SeeW]i W` E]W]SgX]W]Sbbf
 TWöf] W]i a`W]ž

;` W]S` W]W]7U W]S` V]W]] W]W]4öUZW]S]SgX
 VSeI [`fa` TW]W]e` aeY]W]W]i Sčže WfZ[W` [Uzfe
 S`eUZg` Vž6Se3ge]β_ _ Wg` V]W] [UZFW W]W]4öUZW]
 i Sd[` VW B]W]H]W]W] _ [f W]W]Y]W]W]9čb` V[UZž
]W]i [W] S`WS` W]W]TW]ad]i adW]ž7ei SdZi Uzef

g`i SZdUZW` (UZ VS- W[dWWi a[AIW` [W` aLZW`
7j W`b`SdW` W`had#+(" YWdgU fW 4gUZW`YSTz@aLZ
[_ W`V[W`S_ bW` WW: B` WM`efS` V`W`SfW? S` `hadW`
W` 4[V[W` W` DaeWZa1dSZ_ W` VSe SgXW`
S` W`W`E`W`W`=S_ [`eZ[Y` W` 4W` Y`W`oTW`
%S`^e E[W]g`X`Y;` f`W`S` S`fW` E[UZW` ZSTW`
ea`fW`{ ` Y`W`had[Uz]YS` z`

I [`efa` fdf` B`Z`W` g_ VSe 4[V`Y`W`S`g`W`I]g` TW`B`SUZ`
fWz`7ei SdW`W`E`SZ`ef[UZ` W` W`ahS`W` 9`W`B`g`W`_ [f`
d`W`Z`fi [] W`Y`W` 8`W`ef`W` g` V`W` W`]` W` W` Fgd [`W`
W`? [ffW`7[` 7[eW`Y`ffW` W`X`g_ VSe YS` 1`W`9`W`B`g`W`
g` V` [: [`f`W`dg` Vi Sda WISdW` W`B`df` EFS` VI[Vz`
I [`efa` TW`B`SUZ`W`W`W` [Y`W`B`g`Y`WT`U`W`7e]S_ [Z_`
[d`W`W`I [W`V]S` `fhadi W` W`e[UZ`S`g`UZ`S` VSe EFS` VI[V`
` [UZ`f` W` ` W`]a` `f`W`

%W`DSZ_ W`[efS` W`W`I S` VT`W`W`Y`I`eSY`W`W`S`fW`
? S` `1`%S`I`W`[UZ]S` ` [Z` `^aeUZ`d`S`g`TW`z`

%L`]`W` W`W`Se 9`W`B`g`W`W` eSY`W`I [`efa` eUZ`W`U`Z`z`
%e [ef` Z`W`f`W`W` W`Dg[` W`7e`ef`W`f` _ [ffW` Sg`X`W`E`f`d`-W`
hadW`W` <gef]l`bS`Sefz`

%B` [_ fz4W` 9`da-W`9`W`U`Z`fe`Za`X`7ei gd`W`W`W`I`a` Tf`
[<SZ`d`W` SUZ`I`hadh[W`W` <SZ`d`W`z`7e[ef`W` _ S`^W` W` [d`ZW`
Y`W`W`W`z`Efz`5`W` W`fie 6S` WZ[W` e[W` 7d`B`UZ`W`W`I [W`
g_ H`W`I`W`Z`g` Y`Z`W`E`UZ`W`W`I S`e`e`W`W`e[UZ` TW`g`-fi` W`I` Se`
^W`U`Z`f` >B`UZ`W`I[UZ`W`I`g` eSY`W`I`g` V`X`Y`F`W`Z`[` I`g` %Ad` `W`
S` V`W`a` `d` eSk`f`Z`W`I`W`e`a`X`Efz`5`W` W`fie`}

%o`Se`ea`^V`Se`TW`W`f`W`I` X`SY`W`I [`efa` z`

%d [`g` ~ }Ad` `W`S` V`W`a` `d` eSk`f`Z`W`I`W`e`a`X`Efz`
5`W` W`fie`/z`6`Sei SdW` 3`TI`B`Z`^d`W` 1`W`W`I [deS` W`I`S`e`

[UZ`aUZW] VVWg`YW Scl [Wafi VVWZH VV` VW
 [UZ_ [UZ` [UZfz;UZ i VV` gd VS- WS_ ELZg- ZWf,
 }; WMLa_ WS LS` VVfa YZf kag fa TW ZMMa_ W
 S UZabbWfa UZab a kagdZVZ/ 7ei Sdea VV W3df
 D[` YWZVZw6 [W= [` WUZ[VW V[W3d_ WZaUZ VS_ [f
 _S` Vdg` fVWgdZYVW]a`` fVg` Vi W _S` lg}; W
 La_ WS UZabbWfa UZab a kagdZVW/]S_ I VVW e[W
 V[W3d_ W] W]g` V_ S` i SdYMS` YWz7ei SdW` SgfW
 @S_ Wha` = [dZVZ3` W`a` Va` W= [dZW]S_ WVd`
 had~ V[VW]S`` fVW_ VVWUZ

I [`efa` XSYfW[UZ] Sgei WUZW <SZdZg` Wf V[W
 = [dZVfS_ _ fV77ei Sd[_ W]eZi [VY] VSeLWfSfW
 VV>a` Va` W9W3gW]gTWf[_ Wz3` W9da-Vg` V
 7[VgU] eha`W` gdMM W` WV [W] S-W` WgSgeSZ
 Sgfa_ Sf[eZS`eW] @WTSg WIDW]a`gf[a` [`3` ebdgUZ
 YWa_ _ W] i BZdMV S`W] i Se a W]g` V[Y X6ZMW
 6Sfg_ ei Sd W VVg`] Wg` Vg` TWf[_ fW 7baUZW
 lgYVUZd[VW i gdMV[VW S` S`e? [fVVS`fV]TMMUZ
 `WZHa` W <SZdZg` WfW W= Sb[fS`[e_ gei gdW
 ea YMS` l S`e ZffW eW [UZfe ha` [dWVi WUZW I Wf
 ZW]adW]dSUZfzHa` W]3dZ[fV]fgd]a`` fW S` VVW ea
 i W[Y9WUZ[UZfVST`WV i [V]Sge W 4õUZW žEFSgW
 ;` eZd[W]6W]_ B[W]efS-W S_ W~ S`W] i Se> [UZ
 SgXV[W]MS` YWZVf i W]V]a`` fW] SdkefW Sf[eZ
 STYMS` Wf i adWž

%bZ i g-fW]Sd` [UZf VS- W VV W= [dZW Sd] eSYW
 I [`efa` ž

%e efVZW [` I [d] VUZ] Wf` aUZ W WS` IW? WYW
 = [dZW]I eSYW]MSfW? S` `I %oW` e[V]SgUZ S` W]W

Li Wj WlgYXZdf i gdWZi [WV] YVaUZ \Mf YVUZ
V[VW]DW i V[VW] 3UZ [UZ ZStē

}AcS` YAS` V`Wa` e

ESk fZMTWe aXFz5` W Wfied

Kag ai W WZdMsdZi` Yē

ESk fZMTWe aXFz? Sd]` eŠ /

EMWEIWeai V[Td] Y[UZ]el geS_ _ Wz7[` 8SdZi` Y
i SdV W V W-gbXU_ õ` l Wg` YXZdi [WV] 5Wfz
%oa eS` Vefz? Sd]` re[XSYW [` efa` ž

%fz? Sd]` re17eefVf` aUZz3_ H[ufackZfcgSdM VW
Wd4[VMS`V[V]7[` 9WgWV [f W W3df VdVW] [Wd
HadS`VWV W EBg`WhadISg`g` VYda-W TdWVefgXV
V[VZ]` Sg_ õZdVž

I [` efa`]S` `fWSe9WgWVgfz7ei SdV ? geW_
XdV[V]BgeefWg` Yha` hWUZ[VWsdZi]W BcbSYS` VSZ
_ S[V]S`ha` hW V W V W? aVWWha` DS] WVVWUZaeZ
eWl EUzi [_ WWW 8Vf`g` YWl I SUZe` SUZi[Vg` YW
XV V[V]UZV9dgVSWg` VVWV[V]ZWz

%fz? Sd]` re[fZV8[V]ei gdWV[V] [dZVWS_ S'e
[_ WYWS` `f[WVB` l fWVWV S'fW? S` `l %aTi aZ^ [UZ
_ [UZS`]W V8VWV[V[VW]9VWVW[`W]S` `ž

I [` efa`]Sg` WSe4[V` [UZfz7ei Bds`e4V[V]fg_
eaYSd` aUZ TVSefWVWVWVW S'e WdYfW Wd[V]
TVUZi W[V]g` Vg` _ i Y[V]Z` SUZ: SgeWgfdSYWl i W`
_ S` W` [UZf SgeWV DSZ_ WZVSegei fVZ3TVWV[V]W
` aUZ V bSSd? [gfWg` Vg` fVZ[V]e[V]Z_ [f WV S'fW
? S` `l W[V]TqVWei [W[V]ZVSe` S` V` [UZf I WVeZ[V]
i [V] S` `SUZ Wd3gXUZd SgXW >SWEVZ[V]ZfVW
S` `V_ W]i` `W]ea` W 5ZSd]` Yfa` ž: Wd5ZSd]` Vž

fa`leWVUZZWSe di SdW I [fi Wlha` VdMg` VeWZl[Y
 g` VZSffWdM[Y <SZdWS` Y[` V[VWV >SWW YW/aZ` fz
 6 [WMS` I VLWf öTWZSffWdV[VW3Te[Uzf YWZSH WW
 @S_ WöTWVWV ELZSgXVeWdl gß Wd Hi SdSTWVaUZ
 ` [WSlg YWä_ _ Wzi SZdW[ZdMS` I WG` fWZSfg` Y
 i a`fW [` efa` Wd` gdZS`TW[` WfW[` WdWV ` [Uf
 Sge WW = abXYZWZAd` YdS` V`W`a` d` eSk fZMTWe
 aXEFz`5`W`Wfiez`Kag ai W` WfZdWZSdZl` Yd eSk fZW
 TWe aXEFz`? Sd[` ie`7ei SdeWeS_ , i W` _ S` W`had
 e[UZl]` eSYWZSffW` S` V[W`ge[a` lfsfeUZ[UZ9`aU] W
 fbfWl gZi dM V[W0`aU] WW` W`hWZa`WW>a` Va` d
 VSeVaUZ` aUZ VSaWdVadl YS` I WfeWf g` VhWdWdW
 hadZS` Wwi SdHa` W`W` YdWZS W=[dZfgd` _SUZ
 WV`ß Wd` Y`SgIFWdVSe9W`gfl gZi dWz6STWZSffW
 W`eah[WdW[UZ W[` W[]a` `fM[` I [d [UZ] Wf` aUZ
 ` [W_ >WW = [dZWY`aU] W` fbfW Zi dWz

7dhWSTeUZ[WdW[UZ ha` : Wd` 5ZSd[` Yfa` g` V
 e[WS`W V[Wf dWbVZ[` g` fW`g_ WWS`fW? S` ` [Uf
 _ W] Wl g` SeeM VS- WdWf W` W`XdUZWWW 4[U] SgX
 V[Wf d`-W` SdXVZWZSge WdWf ödf dSfz7dZSffW` W[UZ
 TWdWfe TWUZ`aeW` SUZ W` WdWf ebdWZWWWI SdMfWf
 ~ h[WVUZf` SUZ W`W` ? a` Sf ~ VSeD[e] a SgXe[UZ l g
 ` W_ W g` VWW>SWW` aUZ` S`elg TWgUZWz7ei Sd
 h[WVUZf` [Uf YWZd[UZW`S`eW`W9W`W` dZS` eSTWW
 l g dZi ß l Wz6 [WVWf[UZW`a`^] öZ` ZMfi SdYWdWdW
 öTWZSgfb` aUZ W` _ S`Z[WZWl g]a_ _ Wl` SUZWW
 WdVSe 6 [Sdg_ YMSg` ZSffWg` V` [Uf i [eeW]a` `fW
 aT` _ S` WW >SWW[Wfö_ Wf d`SgW Vgd Wz3TWdW`e
 Vdg_ ~

Šl WVSUZFWaUZ W_ S1 Wli ödW [W]a_ Wž7d
i ödWŠ` WVDWfWha` eZi` W FS` V] SgXVž

7di ödWWW Ef[UZ ha` Efž5`W Wfie6S` WfVZW
[Z` SgeWV DSZ_ W` VZ_ Wg` Vg` fVW4`geWV W
Fd[[` Yes` lgYehWfW] f` SUZ: SgeWfSYWž7di ödW
SgUZ` aUZ V[V6TdYW EfcabZW V[W]= [` WfW] eSge
: Wf 5ZScd[` Yfa` e9W3UZf [e ZWfSge`aU] WžEaYSd
Wli SZ i [fl[YWBŠ` l VSeL[_ W[_ ATWfWUZa- lg
_ [WV VgdZ] gU] fVW6d W W 3gYWT[U] eW W =abX
8õ` XEWg` WWŠ` Yh[WVW]Zf_ SUZfWZ` eW W aZef[_ Ž
_ g` Yg` had[UZf]Mg` VWfcdfi aZ` VSgUZ` gdhadZWll gd
E[UZWg` YW W 4[U] VgdZe8WefWll gi WVM Z[` Sge
SgXV[Wfcd- Wž7dZSffWaysdl g W W[_ bcah[eWfW
? WfV[Wg eg_ _ WS` YMS` YW,

*%cd` YWS` V`Wa` d
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Bı fl [UZ WfSchfWfW : Wl lg 7[ed g` V eW W= ` [W
i gdWwi SUZei W]Zž7[` V9WŠf[_ T`SgWfcd[[` Yes` Ž
lgY]S_ [Z_ l] W WVZ` ? WfWfWf fl SgXWfEfd- W
WfYWVž7ei SdVSe? BMUZW Wf>[fWfSfgdSfW]g` Yf
VSe? BMUZW_ [f W W Vg`] W: SŠž6[WfW]UZfg` Y
i SdeUZ`WfH STWfW] a` `fve[WaZ` W WfWfW] W Wž
E[W]U] fW[Z_ YMSW] e9W[UZf g` VY[` YVS` ` cdZ
i WfWŠeZSfWfWZ` ` [UZf TW W] fž

7[` bSSdEW]g` WW i SdI [` efa` i [WVW]Z_ fg` V
]a` `fW] W W 8g- hadW W Š` WfW eW Wž6S` ` TaY
Wf` SUZ dWZfeST g` V dZdff cdZ Sgd aZ` W_ WfW

3gWYU[U l g_ Wj W VS- Wl[W h Wj W d W D [U Z f g` Y
 Yl` Yz 7l` W e S` V` W W S` e X e z 7 e Y S T | W W Li V W W
 _ W d VS- V Se? B U Z W [Z_ ` S U Z e b [a` [M F V E [W_ g- f W
 [Z` h W A` Y f Z S T W i W W` W i S d` [U Z f Y S g T Z S l VS- e [W
 S g e d W W L g S` S_ e W W 3 T W W V g d Z V [W W W a T e j g d W
 : [f W S e e W j S_ l] [a_ W W i W f h a` S` W H [W F W W i Z
 X e f l` W W W B S d W [f Y [W W i a Z f W z 7 e i B d W W l g
 Y d a- W L g S` Y W W W z A T e W [d [U Z W W B Y W f` W W
 9 W S`] W b a` l [W a W W` W Y [U Z W` h a` o T W f d W W W W
 6 [W e W W W l` e b [d W W W 3_ S W g z e b [f l W i S d T` W e [U Z
 e a l [W [U Z Y W W z 7 e Y W o Y W W S- e W [Z` T W a S U Z F W W
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; Z_ i g d W W S e 9 W W e Z i W e 6 W Y B a W V 9 W W e S` V
 [` e W W F S e Z W e Z` g Y T W W W W E U Z d f f S` e W W o W
 g` V W W S U Z W Z S T g` V Z S T V S d` l [Z` Z W S g e d g l [W W g` V
 i W i g i W W z 6 S e E L Z [_ e W S d W e W W W i d Z_ W W z
 7l` b S S d 3 g W Y U [U W S` Y Z S f W W W S e 9 W W z 1 W i o d W W
 e W W i W` W` [U Z f T S V W W W f a [W W W W W W W z 6 a Z
 [` W W e a U Z W H [W W Y S T W i a Z ^] W W W f [U Z W
 4 W o d X [e S` e S` f W z 6 S` ` i e W e [U Z V [W e d B_ b X g` V
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6 [W e f d- W S d W W e S U Y S e e W l [` e f a` T` W e W W
 g` V o T W W W W W b S S d E W g` W W g` d Z` o e e Y i S e W f g`
 e a` f W z 6 S` `] W d W W g_ g` V Y [Y W W I W l g d b U z ; _
 = W d_ S U Z W W [Z_ W l VS- V Se? B U Z W W f h a d V d W
 ? [g f W S` [Z_ h a d [W W a_ W i S d g` V W e [W S g X W
 h W l_ g f` [U Z W Z a W] a` f W z 7 d] a` ` f W [U Z S` [Z d W W W
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>[W S` Yaf _ fZ;ZdVf _ WvZ[W eW 9VZ[d i [W
lSU [YW9`Seeb`[ffW]lg VgdLZTaZdWz`7d hWegUZfWS`
A14d[W l g WW] Wl Xd WMI S` VW W eW FSYWgUZ
YvZd[WVW ZSffWSTW eSff WvW TWS` ` WfVScbTWI
`SUZlgWW] Wli Se_ [f [Z_ YvZVW i ödW SUZW
[Z` V[V0WS`]Wba`[VSTWZdZSffW7ei BvMS` [Uf
ea dZ` _ l i W` e[WV W YVUZ g_ TdBUZfWz? S`
i SdVScgXVMS-fl YW fW]gi WvWz3TWI hadVW FaV
/ [W S` V ebcSUZ ha` V[WV 6 [YW] g` V VaUZ i g-fW
e[WVWf] S_ Wf VSe g` hW V/[UZW7dbdW ha`
9VfB` V [eeW, VSe: Wg_]dWZW SgXW 4aWg` V
VSeG_ Z9` SWZVW VSe= dSUZWl Wl S^ fW= `aUZW
~V[WV YvZSYWWLbZ Vg` V[VW]gf[YW: SSdlöeUZVZ
I Scg_ _ g-fW S` VSeVgdZ_ SUZWl VS VaUZ VSe7` WW
[_ WfVSe YVUZW Sdl I Scg_ i SdW` [Uf _ i Y[UZ
W bSSdFSYWvWl aUZW Sge eW W >VW W XSUZ
lg efdWZW1 @[W S` V WfY` Y W S`e W7` fW] g` Yf
g` V` [W S` VZSffWVWZf W 4VW f` [eStlg`VWz
: SffW S` Wf W_ S^W 9WS`]WvWdWZW TWS` YW
ea i SdW eUZW VS- _ S` `SUZ W WTWf _ fWLW faf
i SdI Scg_ _ g-fW W VS` ` V[WV 7` feW [UZW VSe
VaUZ` [Uf eß WfW _ ELZa-WWlLg] g` Wl SdW1
7dhWegUZFW [fW] i W]Y_ Vzd7dX`YS`el ghad eUZ
VSe4[V A14d]Wehad geVWz%o [di WvW g` ei [WvZ
eWvW i a] W V6g`] WvW ZWfUZf { ZSffWA14dW l g
[Z_ YvSYz7di g-fW Se VSe TWVgVWvW Y`SgIFWV
lg i [eeWz6 W Adf S` VW] W V6g`] WvW ZWfUZf
i SdV[WVfBg_ fVLg] g` l V[W S` ` [WVWVW i ödW
WvW _ S` STW VgdLZ HadSgeUZSg [YvW ` [eha^W

I [VWVZS [Yi VWV]a` fVBTWfi BZdWV[VWV]_ _ W
Sge WW FVVW[ead[Z_ V]VAZdW ha^Vd Z` fW]a` `fW
WVW 9WS`]WYS` Y` [UZf i V[VWV]WVWZ7deWV]fW
e[UZ V]WL[YSdVVS` žBca_ bf WW]W B^ WVVWFSIS]e
ZV[Sge SgXeW VLg` YVWV TiffWdeZ_ W] WVVWVESgTh
VWdeUZ` gdeZi Wfi [WVVSgeebgU]W^WZ;` 9WS`]W
eZi VWV[Z_ VSe 9W]UZf W9da-W 4dgWVehadg` V
hVWd3 YFWSe A14d[Wez9WSg i [WVW]hadW bSSd
FSYWYMS` ZSfVM aYVWVW V ö` lV[Sge WVFSeLZVg` V
TV[SUZVWV]V6Se 9W]UZf efSchWg [Z_ W] bad W] ef
dgZ]M TVUZöfi WM VaUZ i WZVW>BUZW _ aUZfWéUZ
Z[` fVWV] Vg`]^WELZ` gdISdf hVWVWV1

=D; 79 476 7GF 7F 8D; 76 7@

8D7;: 7;F ;EF E=>3H7D7;

G@I ;EE7@: 7;F ;EF EFÂD= 7

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Li 𐄂𐄃𐄄𐄅

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7ei Sd_ [ffWS_ Had_ [ffSY-I [` efa` ZSffVWVW3dIVež
` [eZVWVSeW g_ SgXV[WFa[~~VW~~g YWZ6S]S_
VWVW1W W9VWfha_ S` VW 7` WWW`S` YW ZVž
VWgUZVW9S` YW SgXZ` I gž7ei SdVSeVg`] WSSdYW
? BUVWž

H[VWFSYWI SdW eVf VW 3TWW hVfdUZWI S'e e[W
[Z_ hadVW 3'fi SdW`SWTWW Vfi SdI BZdW e[W
` BZW]S_ ITW W] fVWVS- eWWW dUZW 3d_ [` VW
ELZ[` YWgYV[W S` SgeW 7` fXW g` Y` [UZV] W W
]a` fM V`e[Vha` VWYVUZW 8SdIW [VZdFb] [` Yež
S` I gYi SdHMI gf[UZ ZSffV[Ve[UZ V[W S` VYVgVUZf
TMM4W[Wg` YW VWWYca-W=S`VWae] abM` WWW
V[W9cbTW efWg` YW VVW 8Seeg` Yha` Da_ S` W
ZVWVWfi gdW6Sei Sd[` VW >[fVWfgbIFV]g` YW
i aZ^l [W ^UZ ZBg YW3dIVeg` X^ž

E[VW SdW h[VWUZf` aUZ h[VW? VWVha` V] S` VWVWž
XW fi S'e VSe? BUVW efa`bVWg` V Xef [ZdMYS` lW
>B YWSUZZ[` Vž7[` dZd`VIELZ_ W WeUZdMWFd` Y
e[UZ [ZdM4dgefzE]W_ g-fVWVSWgXWW hVWVfW 3d_
YX^W eW žI [` efa` T[VW eVWZ6Se? BUVW ZSffW
e[UZ SgXW= ` [WSgXWUZVž; Zd9WUZfi Sd_ [UZi W

YWadWl g` V Wl? g` V ZaT eLUZ [` VWZS WlW Daf
S'e hadZWha` [ZdWl4'beeWSTz? [f W W VWwf^LUZ
3geVdUj l Wl_ Wd` SUZ 3` Yef S'e` SUZ EUZ_ Wl SgeesZ
T^Uj fW [ZdW3gYW [` V[WVW Wz

7[eWeS_ W9WZ^dMVeLUZ [I [efa` e: Wl WzLg
eW/W8o-W/SYVW 8W V Wl[Z_ ` SUZ Ww >VWfdSUZ
fWl gYVWZSTWlSgUZ W ? WeZl Wlha` EUZ_ Wl W
Yog3fi gdWg` VeLUZ h[WVWZf W W =` aUZWYVdUZ
ZSffW;` ef`]f[h i Sd WlZ WlVWVWf g_ [Zdl g ZWVWz
;` Ww 3gYWT^Uj l S'e Wl eVWgXW hWl g` WWW 3d
S^W eSZ i Sd [Z_ YW Wl S'e XZ fW W W EUZ_ Wl
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%oSTW E[VeLUZ hWVWf k XSfW Wz

%e [ef` [UZfež@gd_ W 3d ž7ei [dV YVWZ i [WV
Ygf eW ž

E[VebSUZi S'e efaUj WZdVSe: Wl ž<WWW S^ei Sde[W
eVdT^VUZ YWadWz

%WVZSTW eLUZ Za Wf^LUZ ` [UZfe YWdUZWk

%@W l _ [dXZf` [UZfež7e fSf W W 3gYWT^Uj i W
VSe [ef S^Wz

E[Vef dW fWZ_ [ZdW W S` VWfY W W g` VWZS^X
[ZdSgX E[VZSfW [W W Se8SdV W W a_ _ Wg` VeLUZ W
eLUZ TW W fW V TW e W l g XZ Wz

%e [ef` [UZfe l i [W W Za fV W W gd ž%UZ hW W bōd fW gd
W W EfLUZ [: S` V W W] ž6S`] W9 WaeW

G` V VS_ [f Y[` Y e[Wa g` TWUZi Wf [` Wl YVWZ W
D [UZfg` Yi V Wl S'e eVMSfe3UZ^LUZ ` [UZfe YW Z W W z6 W
YS` l W l i [eUZW S^] a` fW W WZS^TW [` gfV W W Sg W
ZSTWžEW W9 WZ W W gdZ ` [UZfe l g hW W fW i Sd Xd

\Ww S` ` lg W W;` ef[] fZS` Vg` Y YWadWl g` V
õTWMWZSffW eWWSWadW W FWMleadYMS` WM
S'e V\WESUZWSeeWV\F dafi W i SdW [` efa` ` [Uf
^WZYMS^M W W õZf[YW3geVgU WõTWSLZg` Y
lg g` fWdU W W ` [` W li W aW VdW Vg` W
[` WWW W [ZdSg S`ZSffWSe? BuzW [Z_ W Se
[` V[W S` VYWdU fZ7eefS` VSg-W8dYMS- eWSe
STe[Uf^UZ YMS` ZSffW7ei SdW] ^W W g` V SUZW
9WWeS` VZ3` e W V\Wfa[\WVWfSf eZaT W [Z` [`
eW WfSeLZg` VTWZfWZ` _ [f W W 8[` YWb|fl Wz7e
i SdW h[W] [Y]geS` _ WMS^WVföU LZW Bsb[W

I BzdW W hadW 4W W eS` V YMS` YW[Z_ ` SUZ
W [Y 8[` Y W H W L W MSgeW` S` W W gS`fWZA WISd
efS` V W W@SUZd[Uf VSdSgX7[` W 3gYWT[U] XZfW
e[U hWegZf [Z` [` W W W =ST[` W_ [fl g` WZ_ Wg` V
SgXWfWVg ^W Wz6aLZVSei B W Vg` h W VZ` [LZW
FadZ W Y W W i [W W i aZ` i g-fW7eYST] Sg_ W W
S` W W AdH` S` W _ S` ea eLZW eW] a`` fMSgW V
VgdZ W W FWMleadõT W SUZf lgi W Wz

7dY[` YS` eW W 3dVf bSf [` eW W@eLZWgcbU }
i SdXSeL W W ZW` SUZ/Bee[Yg` fWV[VS` W W SgXW
ELZdMf[eL ^W W W Bsb[W W eW fW eL V[W d` ^V SgX
g` V laY W W EbdW ZeZdM W g eL ZMS` ž%õ` X? [` gž
fW{ } eSYW W g eL eW f- %õ[` W W eX` X? [` gfWž
EW : W] `ab W W E Z d M W W ZW[Y [` eW W 4dgež
Lg_ 9`õU i SdV[W3dVf _ [f W W YMSW W W ZB [Y
i Sd W W d W W Dagf[` W SUZ W W [W [Uf[YeWg` Y W W
`S` YW LSZ` W {eW g` V W d W W W W W S` Y W f d W Y W
3gX W eS_] Wž

I Se [_ W Sg XW B S b [W Y W U Z d V W e f S` V l _ g - f W
W W 3 d f b a [f f e L Z W W W g f g` Y Z S T W z E a i W f W W e T W g d Z
f W W] a ` f M Y S T W l i W ? i Y [U Z] W f W z 6 [W W W W i W f
i S Z d e L Z W [U Z W W W W S` V V S d` I V S - V S e ? B M Z M Y S` l
i [W W Y W 6 d L Z W W Z S f M W W V 3 Y W f` W W 9 W S`] W b a [l W
i S d 7 d i g - f W i S d` [U Z f i S d g _ V [W 9 W S`] W b a [l W
Y W S W W [W W I W i S Z` W e a` f W W W W [Z d W W e g` Y W
l g Y W Z W l g` S e e W i S T W h [W W W U Z f Z S f f W e [W Z d W 9 d b` W W
V S 6 d 3 g X W W L W f W Z W] a ` f W W W W 6 d a Z g` Y e f W W W
W W h a d S V g` Y i V [W 3 g a d W W g` Y i E W e f _ a d / l g T W W Z
Z W i W] a ` f W S g U Z [d W W W W W S` W e W W z 3 T W W e Y S T
W W S` W W W` a U Z f a` W W W ? i Y [U Z] W W g` V e [W [W e [U Z
` [U Z f h W W Z W g U Z W i W` W S g U Z h W W W W e h W e g U Z f W
e [V S g e e W W 9 W S`] W l g h W W S` ` W z 6 S - ` B _ [U Z V [W
@ S U Z d [U Z f o T W W Z S g b f` [U Z f h a` W W 9 W S`] W b a [l W] S _ l
e a` W W h a` W W W 3 d f G` f W W d g` V T W W g` Y z H [W W U Z f
Y S T W % 6 / W 4 d b W W U Z S { V a U Z` H [W W U Z f Y W i d W W S e
? B M Z W [Z d S` ~ = W W L i W W W W W 9 W S`] W S d S T e g d M
S T W W i S d [Z _ e a X d f V g d Z W W = a b X W W U Z a e e W i S` e W
V S e E f o [U Z W B S b [W i] e W W i : S` V e b o d W 7 d e f W b S S d
? [` g f W e b f W i S d [Z _ V [W S` W W W i S Z d e L Z W [U Z W W
? i Y [U Z] W f [` W W e] ` Y W a _ _ W z G` V e a Y S d W f` a U Z
~ i W [Z _ S g U Z e W H W e f S` V e S Y F W S - V [W a f e U Z
h W l g f [U Z W W F a V T W W g f W W - l e a Y S d W i f] a ` f W W
` a U Z [_ _ W [U Z f V S d` Y S g T W i g` W W] S` _ W f W e [U Z
S` W W g` h W i o` [Y W a ` g` Y z E W : W i] ` a b W g` V
` g d _ o z e S _] a ` f W W W W L [f f W i e W W e f [_ _ W h W Z
_ W W W i S z d W W W e W W W L S Z` W [` W W E b d W Z e Z d M W i
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7dca^fWWW W|W|YfW Efa- BSb|W|geS_ _ W g` V
efW|fWZ [` V|W|DaZcbaeffca_ _ W3UZf? [`gfWi SdW
h|W|f|UZWz7deUZaT|W|d|^V|SgXW|@SeW|gd|W|f|e|W|XfW
g` V|aYVSe `|BUZefW4o` WW3|fW|lg e|UZ ZWf` l SgX
W| V|SeL|W|WZW `SYz7def|UZ W|YSfz;` W| W|Yca-W|
g` TVZa^XW: S` V|eUZd` efS` VVSdSgX;UZ ^|W|W|W|

? W|Z|W|W|W|g` WW `S` Yi SdW|lg hW|T`o` lg_ V|SeTW|SZ
efWWWBSb|W| ` V|Se 9W|BUZf [eZ`aUZ|gi W|W|W|Z3`e W|
W|WW|UZ.f|f|]a` fW|W|~ aTi aZ`W|e|ZdYgf V|W|V|SZd
W|W|lg ^W|ZS` TW|g` W|W|;` fW|W|W|]S` `fW|~ ` [UZf
W|H|W|gUZg` Yi [W|e|V|Z|W| W|` aUZ W|_ S`lg ^W|W|
`gdg_ e|UZ|lg o|TW|W|W|W|aT|V|W|W| adW| SZdZS [Y
V|Sefo` W|Z

6W oTd|YW Had_ [ffSY W|Z_ V|Se 3d|W|fW e|Zd
e|Zi W|E|UZi [W|Y|W|` a|Zi S`e|W| W|3gX_ W| eS_ |W|SgX
W|W|W|ZWS` Yi [W|Y|W|3d|W|fW|lg]a` lW|f|W|W|i Sd
V|W|@afi W|Y|W|f| e|W| W|3gX|W|g` Yhad W| F|W|W|ead
h|W|W|W|lg_ oeeWz;Z_ i SdS`eTdW W|W| 8|W|W| [Z_ z
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=S` f| W| SdW|W|f|adfgdZ7dZSffW|W|Za` li fZdW|W|W|? [fZ
fSYebSgeW|W|i W|YS`^W|lg e|W|f|S|T|W|i [W|W|SeG` Y`o|
i a^fW|W|e|UZ W|W|T`a` W|BSca` e` W|W|Z_ SgX|W|W|
EfgZ`b`g_ beW|i a|TW|W|W|e|UZSdX|W|UZi W|Sgevo` efg` Y
TW| SZWWW_ W|S`^WW 7|` fabX|W|g|UZ h|W|W|d3` YfW|7d
e|Zi S|f|f|W|g` Sg` i d|UZ ha` W|W|Had|W|W|g` YW X|d|V|W|
: S-Ž` aUZ|W|7di Sd|T|W|a` W|e|TW|W|f|W|f|o|TW|W|W|i W|
? W|W|T|W|W|=abX|W|9ca-W 4dgW|e|SgeBSb|W|_ SUZa|
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FaUZfWIS` YXXf[Yfi gdWz6Se>Bef[YW Sd VS- I [`efa`
TMMW Ef_ _ WYW[dl] Sg_ Zi dW] a` fM SeBSda` e
eSYfWg` V[Z` VSgWf VTIffW_ g-fMM[WV] VaWfIS` WfW
eW VhTWS` YaeW 4W W] g` YW lg i [WwZa^Wz@gd
W_ S^] a` fWfW W oUZf[YW 4^U] SgXSe? BMZW
i WfM VSeS_ S` WfW 7 WwWDSg_ WfS` WfW F[eZ
_ [f li W=a^Wf` ` W eS-žE[WfZ[W [Z` ` [Uf YWfW
lg ZSIW] g` V Wfhw] [W Wf` aUZ_ S'e [` V[WfWfZW
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6Wf@SZ_ [fSYi SdWfDy^UZWfEaXd` SUZW 7eeW
fdSXW Zi UZf] ` [[YwEföU] 3dTWf Wf VSe_ VZdW
Efg` Ww[` 3` ebdgZ` SZ_ g` VW` afi WfY_ SUZfMS^W
S` WfM VefWfWg` VWz7eTWfS` VVSd] fW VDMZWha`
li WfSZdWgdbU] ^WfWfW BcaVg] f[a` d [Wf ealghWz
XfZWM VS- Wf bca_ [WfW? [fy^WwWf; ` WfWBSdWf
VSeYfSWf G` Y SWfWfS^Wi Sd VSvgdZ [? [-] dWf
YwZUzfi gdWz7ei SdWf W3dTWf [` Wf [`efa` eUZ
TWa` WfW 9 WZ[U] Wf adTW ZSffWg` VXödöTWli Wf
Efg` Wfhw] aUZfWfVSe? BMZW ha^efß V]YSgeefW W
6W] W Sgd geZS^fWz6S` `] Wz fW[Wd] ` Wg` YS`
[Zd9W[UzflgdbU] lg` V_ [f [ZdW] deWwWf eZ[W]g` Wz
fdBY^UZWHMS` YMS^Wf lg eWf žZWWf [UZfS^Wf eWf
] a` fM SdWf g` _ i Y^UZi öTWf[VWfWf WfWf` YWf
6 [YW SUZ] gW] Wz: WfWf SdXd[Z` B [UZfSIW[_
9W Wf eZS eZSgež7deZS` Y [` Wf=S` f [Wf Wf SUZ
` [UZfedZ_ Wf WfWf SZ1WfZ] g` fWfWfWS` ` Xdf] g_
9W Wf eZS eZSge` SZ_ S` Wf XWf^UZWG` XGYW Wf
eaYWS` ` fW%6[e] gee[a` eYdgbWfWf eb[WfWf WfBSd] Wf
F[eZfW` [d eföd fW_ VZdWf9` Se9 [` Z] g` fWf g` V^W

W VZSTVfeg` WWW WHadBYōTWVSe W S %6 Yea
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 ; ` W[UZ i S` VWe[UZ had>S` YWVWVSTWll g_ VefW
 ? SWeVW V [VWLW ZSffVW [UZVSe4WōdX [ehVebōdf
 WW9WVW dZS eSTWWlg hVefg_ Wz4W 3` T[U VV
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 VdMg` Mi S` l [YGZdSēVWVSW i Sdg` V [4VW`SY~ [V
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7eYSf W fWZ [eZVW BdtTW lg ĩ eW, i [W] a` fW
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 FVW[UZV _ [f [ZdhVSTdVWV1 6 [W? i Y[UZ] VVl VS-
 e[WZ_ ` gdV W8S`VefVWV i a` fVW aYVW [UZ_ VZd
 [4VWVUZfz7di g-fVWgX9dg` V [ZdVg` hVW W TsdW
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 VS- VV ` [UZf ea i SčA We[UZf[UZ i Sde[W had3` Yef
 hi ^Y VgdZVW S` VV YW VVW i Se VgdZSge VV Bdf[UZ
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 E[` l [ZdV3` ` BZVg` YehVegUZV gcbU] lgi VVWz7df
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qVWV[WVW Vd'g` YV W-WVW]i` `fvqUZ [Z_ Wf [VZ
ZWZ? VZds^eS^vS` VdVdZfVWVd eWyi` `fvweqUZ
`aUZ W_ S^S` Wd öTWVWV i W` W` [UZf dSeUZ_ [f
[Zd]` 4VWVg` Yf dSfz3TWVWVUZ [eZWEUZi [WY] Wf
eWg fdWV i SdWad_ ž7ei Sd S'e i a^fW_ S` TW
ELZSUZeb[WV] W LgY_ SUZM` SUZVW_ S` TWVf_ Sff
YVWfi adWi SdI aZ]` _ S` SgUZ VW 4[U i S` VW
i gdW_ S` ha_ FVW[eadTWTSUZfVZfSfeUZ^UZi SdW
[Z_ eZa` [` VV WfW X` X? [` gfW` SUZVW VVW
LWVWYVWV ZSffW S^W? i Y^UZ] WfW eUZ_ [f [Zd]`
HVI]` Vg` Ylge VV W VgdZ VW = abXVUZaeWz<Vf
STW VS Wl g_ @SUZVW] W? g-VZSffW/bcb VVd eW
`aUZ W_ S^W W SUZ VdS` VdV S'e VVWd eUZ W W
DVZWha` ;` efdg_ WfW lgdVZfz

A We[UZ^UZ]a` `fvWVWVfB VYg` Yi [VdVZVgW
_ adW eSffYVg` WV ZSffW [UZf i [VWZaf i VdWz
: SffWeW VdDV[ef dSfgdSfWg` YVSDVWV ea i BdW
VhVZBf [e_ B-[Y^UZf YVWV-STWVZSffWgdW W
eVZdg` YWSgVHadfWg` Yl` i WZVW FV WdVW
9VWgVW[V>[fVdSfgdSfWg` Y`SYl g` V Wd dVZf] VZ
`WHad S` V VadZ]` lg YVZVz: SffWVWVg-fli a eW
i aZ` fv g` Vg_ i WZVWV eWVZdV 3dVWVb/SfI hV[W
VS` `ZSffWVWV dUZfW]i` `W [Zd]dVWV a SgXW
: W i Wl gTWV Wz3TWVWVHfVgUZi [Zdha_ 4öda T]e
lg_ : Sge` SUZi gYVZVW i Sd` [UZf dSeS_ fWV WZSffW
W: Wg_ eVZWhadWV? [` [eW]g_ _ [f eUZ YVdSUZf
g` VVSei BdVWV gf^UZ SgVVS^Wz7]` W 4dVWVgdZ
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a Wd9VZV_ [e VS_ öT^UZV VdVS^Vd[VW hadVW

LgefWg` YWV ` Wi gdWz7edZdVWVbcd] f[eZSgUZ
` gdi W|Y>VfVWd[VWZ8ödV|W? [ffV|g` YW| V|W_ S`
e|UZ YWVWf^|UZ l g _ SUZW ZSffWYST W`hadWVdgU fW
Baef] SdFW_ [fVW V|3` lSZ^ha` E|f| W|ha` WWW_ S`
V|W [UZf| gfdWWWV VgdZefdUZzÖT|W|W|i g-fWV|S`
` [UZfV|_ S^WV@S_ WVV? B|UZWd YW|Z| V|WWW`
[ZdV3VdWV|EZ^|W^|UZ] S_ W|l g W| ELZ`g-l VS- W|
e|UZV|FVAcf V|W=S` f|^ W|^|W|Z| W` W|e|VS^W| S`
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` WWW E|f|_ WYV [d| W| [eUZW] a` fW- g` V e|W|
V|W|W|had|W|^ Yg` YW SgUZ ` gdVdW-|YEW|g` W|W S` Y
YWWW -| ea] a` fWV_ i Y^|UZ e|W|^ W| bSSdI adW
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I BZdWVWV|X^YWWWI aUZW SdVSe>VW|i [W|V|
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|^ W|=S` f|^ W|S`e W|Sg d|UZW_ g-fV|i V|V|W|e|dW|
T|W|V|e W|i` f^V|H|W| gf^|UZi Sde|V|W| W|ebfV|W|ELZ|UZf
lgY|W|V|i adW|Z|e|W|^ YW aZ` W|V|W|E|W|^|U S` W| Ž
S` W|had|V|Z_ ` B|ZefW FSYW|S- e|W|g W|öT|^|UZW
L|V|^|^ W|=S` f|^ W|S|T|W|l geS_ _ W_ [f Vd|V|S` W|W|
? B|UZW g` Vg` _ [ffW|Sdg` fW|V|W| FVW|eadž6S` `
W|W|Z|W e|W|Vd|W|e|Zd|W|^|UZV|FSYW|S` YöT|W|Z|Sg|f` [UZf
_ W|Z|e|I|^ efa` eUZ|W S` =i d|W|g` V9V|ef ha` W|W|
g` W|f|d|Y|^|UZW|öT|W|W|e|^|^|f|f|Z|W| Y|W|g|UZf|g i W|W|W|
i Sdi [V|Sge9` S|e| ea VS- W|W|W|W|g` Y| W|W|>Sg|f| W|W|
4W|Zdg` Y| W|W| ad|f|V|S|e W|Sg|e|b|W|Z|W a|W|S` Zi dW
_ g-fV|gdCgS^i gdW|V|FaY|Sd|_ ELZ^SX] a` fW|W|e|UZ
` [UZf|i` ^|Y|ha` [Zd|W| 4|^V|X|W| SUZW|Z| BZdWV|V|W|

FSYWbZdVWdV FSYWgUZ` [UZfS` ž3_ VWVWXS` VW
 `aUZVW WdVWZfVg` Y[` eWVW3dVWVWVWVWVW
 =g_ Wl_ S` UZ_ S` Xdha`WVW ? [` gfW hVWVW
]a` fVW7dZSffW [UZfVWVWVWVWZ` g` Yi SeSgeWV
 ? BVUZWYWadWi Sc7d]a` fVWVWVd g` VYg` YW
 `SUZ [ZdS` eVWVZEW]a` fVhSbadVW i adW eW l
]a` fVWVef_ adVWVWVZSTW aVWIS` eS` VVWV` W
 ha` AlW [W hVWV fi adW eW], 3_ eUZ[_ _ eW
 g` Vi SZdUZW [UZefW ha` S`W i SdV[W? i Y[UZ] VV
 VS- eVWV[UZh[VWVUZfS` VVWVWVWVg` VVWVZ`aeW
 ZSTW]a` fV[Z_]õ` [YSgeWV I Wl g VVWZ
 3_ X`YWWWFSYfSgUZfVW [WVWVg`Zd3d_ eWV fW
 ` [UZf_ Wd[` VVWVUZ[` YWefSff VVWV ZSffVWVWV W
 B SeVWVWIS` Vg_ [Zd: S` VVWV] žEW VVdVWZfVg` Y
 VV[ZdV 3` T[U] i Sdea Ych-VS- W [UZf_g_ Z[`]a` fV
 eVWV bSSdEVg` WV`S` Yg` hVW S` VV`S` lgt[U] Wz3_
 FSYVScgXi BVWV[Z_ g_ W : SSdYVg` YW_ [f [Zd
 lg ebdVWVWz3`e Wl[` VVW`S` f[` W] S_ l eS- eVWS` l
 S`W S` W V W l[W [UZ i VV ha` VVW S` VVWV fW
 F[eUZz7ei Sd` aUZ XbZ g` V VVWVDSg_ ` [UZf eVZdha`ž
 6 [VWVZ`S` YWWW7eeWVSeeWWW dU] fWS` YeS_ had` l
 TleI [` efa` XefS_ 3geVSTWV[eUZ eS` VVS` ` STWVWVW
 eVWVdli W? [` gfW[` eEfaU Wi W`had VVW S` Ve[UZ
 VScVWVWVZi VVWVWV VVWVUZsd` fSTVWV [UZf WZS`fW
 lg ZSTWz@aUZSTWVes- Vse? BVUZWS`WV`S`eI [` efa`
 eW FSTVWV WVd g` V SgX[ZdW F[eUZ lgefVWVWV7d
 Y[` Yi [WgX`Y SgXe[Wgl i BVdVW eW VBgYW `SUZ
 W V B`Sfl S_ F[eUZ Z[` fVW [Zd3geeUZSg Z[VWVZEW
 i Sdh[VWVUZf VdW? VVW ha` [Z_ WfVWV fz@aUZ li W

EWg` Wl g` VWi ödWai Wf eW ž6S dVWZl` fWlZ_ W WEF_ _ W%b_ [fZ{ 7dfSf S'e Zi dWw [UZfz%b_ [fZ{ i [WVZa fW WEF_ _ WSgfWz7e ZS`X [UZfž7d_ g-fW eUZ g_ VdWZw7l` T'a` V]i b Wf Vg_ _ SgeeVZWVWf 'g` YW? S` ` S_ WeI [eZW V W W] S` ` fWXdWfW [Z` _ [f W W > BUZW SgXeUZ SgXW W XWV B'SfI S` eW W F[dZlgeW Wz7ei Sd [UZf dfeS_ fVW]` 'Sv` Y Sllg`Wz @SUZW W W W 4V S` ` fW YWd WZSfW]a` ` fW [UZf W XUZ ZW W W g` VeUZ S` W W F[dZ _ [f W W ? BUZW aZ` W W W f g` YeW W VSei Sdl g Sg S` W W z7d` SZ_ _ [f W W XW V [UZW > BUZW B'SfI ž6SeVg_ _ W'a` V W [UZf efdZ fWZ` S` li BzdW I [` efa` eUZ [` 9WS`] W Sge_ S'fWi [W W _ [f W W Eb]fI ZSU W Sg XaeUZ` g Yz7l` bSSd? [` gfW ebfW li Sd W W F[dZ W? BUZW We TW W fž

3TW e[W_ g-fW W W f ZSTW i [W W SgXe[W g] S_ l g` Vh [W W UZf h W f S` Ve[W W I [`] ž3_ ` BUZefW FSY fdg YW Ead W X b Zl W [Y] g] a_ _ Wz F S fe BUZ` [UZ eS- eW S` W W F[eUZ S` g` YW Z d W W W W Z W E F W W g` Vi [W W S` W žG` _ [ffW W Sd had[Z_ [` W W ELZ S` Y W f S` V W] W W l Sbb W W] B X S d [Y W? S` _ [f W W SUZW 9W [UZf g` Vi [l Y W S d i Z [eUZ W 3g Y W z3` eI [` efa` _ [f eW W FST W f ha` W W W W W Y] Y eSZ W VS- W W] W W S` ` Y W S W W e Sg X W F[dZ W? BUZW e lge W W W [W W eS`] W eW W a` ` g` Y W z3` W W W Sei W W W X W f W F[eUZ i Sd li Sd SgUZ` aUZ W B'SfI X W STW W W] W W S` ` eSZ` [UZf ea Sge S` ea T W eUZ V W W g W [UZ] W W W BUZefW g` VS_ i W [Yef W TW W f W F[dZ W W W W W W W SeeWi ödW? [f W W Sd f W

: Wl WY[YI [' efa` Z[fW[Z_ VdW ž7eZSfWgdLi W] ħ
i W WlVSe? βMUZWS^W ebdWZW] a` fWž` V]WV
3gYWT[U YST W W W eLZWITW] [dWVW = dSUZž6 W
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SgeW: S` VYV[fW] i W] 4BZVW` EgbbWg` V=S W
W] aeeW eLZ öTWVW 8g-TaWž7d dSbbWV eLZ _ [f
W W Ti eW 4[U SgXI [' efa` SgXW W] a WISd[_
H] SUZfZSfW[Z_ W 4W YWfW] gZSTWž3TW [UZfe
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baLZWWW : Wl WS_ F[eLZ W? βMUZWž

7deSZ e[W [UZFS ž7deWV W FST^W STg` VTWS` `
eaXdf l g W WžLi Sd] S_ S^W VScgXS` l eLZ W] g
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eLZdW [UZV W W _ g` YZSfW` [Z_ 4W] fl W] d Wž
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YWBZ Wf ZSfWžH[W] UZf ZSfW e[W] ZdW E] ` YW W Wž
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VS- V] W W W LZ [UZV W] g SgeY[Y- ea W Se YST W` [UZf
_ i [d [UZW >W WžH[W] UZf ZBfW W öTWZ Sgbf] W
I ad öTW V] W [bbW YW dSUZ] i W` W [UZf [V] W
3gYWT[U] 3_ bW dZ] W W 6 [UZW] [f W W TWZ SdW
AZdM_ [f W W FST^W [: β W W g` TWZa W [W
>a] S^Z W g_ YW W g` V` SUZ W W E] fl bS] ZBfW eLZ W
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I [' efa` l gYMS` g` Vi ödW eLZW [UZS` eW W F[eLZ
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` gdW W? [gfW g_ : S` W W ž4W W [' efa` g` VVSe
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W W W W? g d W T W S ` I [` e f a ` l g e b d M Z W Z = V Z
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e [W S e i B - d [W L W g Y g ` V i W Z e W W l i [e L Z W W g d Z _ [f
W W W Y W Z X d [W W E f [_ W W [W i f [Y e f W I a d W W

% o S ` ` Y W W E [W h a ` W W 3 d T W i W K

% Z f l W Z G Z d V d W - [Y Z

% o a] i ` ` W i [d g ` e f d W W K

% H [f a d k Z E c g S d W T W _ 6 W] _ S Z

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% 6 S e _ S U Z f ` [U Z f d T W W W 9 W d B Y W

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% @ W z = a _ W E [W W e f l g _ [d Z W B T W i W E [W [U Z
_ [f f W [` W W ? W e U Z W _ W Y W e W Z W Z G ` V e b d M Z W E [W
` [U Z _ [f _ [d z 4 W W W E [W g d [` _ W W @ B Z W

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3 _ b W d Z Z S f W [` e f a ` ` [U Z f W B B Z f g ` V e W f W e [U Z
S ` W W S ` W W W F [e L Z z 6 a U Z V [W W W W e b d S U Z W ` [U Z
_ W d [f W S ` W d g ` V h W [W W W e a i W f V S e X d l i W
S _ e W W F [e L Z e [U Z 9 W W o T W e f l W W W _ i Y [U Z i S d
W S ` W W a L Z _ S e S ` l g T [U] W z E [W W W W W W S e L Z [Z d W
? S Z 1 W f g ` V e f S ` V S g X i B Z a W W I [` e f a ` e f l W T [W
g _ W W L [Y S d W W g d S g U Z W z

I [` e f a ` S ` V e [U Z h a d W h M S T d W W W L W f S _ H [f a d k Z
E c g S d W W z 7 d Y [Y g _ W W E a U W W W d W [Y W] S ` W Z
[W W E B g W Z W g _ l S g X W W E b [f l W S e E f S ` V I [V W W
9 d a - W 4 d g W e Y W E o W W T [U] f M a W W [W g S e [e L Z W
8 g Y l W Y W h a d W b S S d - S Z d W i S d W W W [V a e S e S f [e L Z W

YWwfi[` WdELZ/SUzf g_ VW >g affWeföflbg` |f
 @dz# TWVWF ZSffW;` WdEfd-WWWWöTWiefS` V W
 DWVW]_ S1VSeA`hW5ca_ i WVSdfWWea`fV8ö` X
 ? [`gfW` SUZ WdhW/TSDfW LWF i SdVSe? BmUZW
 [_ W` aUZ` [UZf WdZ[WWZi [WWTWWI [`efa`
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 _ Wf e[VZSffWde[US` Wde öTWVf` >S` YeS_ Y| YW
 V[W@adve[VWVW/Bsfl WZ|` SgXg` V W bS` V W W3df
 i W_ öf[YW8dgWVW 3` T[U WdEŽ` Sd|` eZ` [dZW
 WdW 9`aU] W W efi S`e e[W aUZ 9`aU] W ZSffW%Kag
 ai W_ WfZdWsdZ|` Yef YWgV/ZSffWzBfi fl` [UZ eSZ
 WfVSe? BmUZW S` W 6W]_ S`efVWm dZW/Tsd|`
 V[WVfödW/WB/S] SfhWf|Wf VSeb[dSXd_ [Yg_
 V[WVg`WZg_ [WZWe[W [UZf ha` _ Wd? WdZW
 g_ YWwi Sd |a` `fWde[UZ [Zd` [UZf YWsdæ` BmW -
 dg` Vg_ VSe6W]_ S`i SdW FWWleadW S` YWdSUZfz
 3TW[` V[W 3gYWT[U Wfi` fWha` ↑`]eZW/SgfW
 Ef|_ WYW[dlg` VVSeDSffW dZi WdW SYWzBfi fl` [UZ
 dZ[WS`WöTWVWfcd-Wg` SgXVz6Se? BmUZW TaY
 dSeZg_ V[WfW Wf W >i i WS_ 8g- W6W]_ S`e
 g` V`[WV? WYW SUZi [`efa` X`YfWZd;_ >SgXV
 Wf SZ_ WfW [YW 3gedXV VS- W Fd` ebadf WdSeŽ
 dZW9V` YWWSgXWdS` WdWEMVWVW/Bsfl Wg` fW
 dZi Wd4W/SUZg` YhadTWVWsdWi gdW/

ELZa` hW VFW/W[UZfW WdZW_ WYW[VöveW
 W/Bsfl WZi [`efa` l Wde[UZ` ad_ S`W VdVSe WW
 9Wd3 YWZSgdgZSfWhWegZfWfWg` VVd3 YfW[UZ
 e[W WI WVgdZV[W WYASVefS` VWSgX3d W3 YW
 ha` W ? BmUZWVW fl ValZi SdWd W ha` W W

dWYWBd'Wg` VVW W XefVWwa dWYWI VTeeföUj
hW_ gf^lUZ eW W8Sgl hWbWfH V[WgeS_ _ W W W
dZlWg` VgdZVd` Y^lUZW8VUZi S^lgTl^VWdZlWWž
I [`efa` dZaTeUZi VVWVfi Bfdg`V_ [fW^W ZW^YW
Hadfa- WS` YW[Z_ leW WUZg^Wli [dZWV^VWVW
lgli B YWž7[` W3gWWT^U i SdWS`eaT^eW W VUZž
fWVWi [dZWli W_ ge]gf^eW: ö WlW S^_ fi W W
ea^fWVS` `ZSfWVdUZ^WZf^Zi [fl W W VgdLZYSd^VWž
7defS` V W f^ELZg^fWIS` ELZg^fW` V W W W ? B W ZW-
TWVWT^U fW dSd^YWSWgž

7[` WS` YW`a`a` `W`Sefi SYWISgXWWW hWV^FI SUZž
_ S` `dZS W_ [fi [VSGe: a^l YWUZ` [fl fW9W^UZfW
dS` W W V[W SdZl` Wb[efa^W Yd` W W da^fWS` YeS_
V^Vf^S- W W f^S` Yž6d` `W Vd^ YWd[UZ W YlgeS_ _ Wž
Y W XUZf` ^ W W W Y W^UZf^W B ` Wl` X W W dZ W ^Y W
Yd^Yd^ W G` [Xd Wž; Zd W d^gd^Y W? a` Ya^W W^UZfW
T^U fW hi ^Y fW^ SZ_ e^ae öTW V^W W W i B W W W
>Sefi SYWž9 W W W f^UZ Zi dW S` TW W W DgU W
I SYWe W _ WS^ [dZ W = ^dW, eB_ f^lUZ W 9 VS` Y W W
i SdWS` W W 8ö- W Y W X W W ž7[` W SYW^Sg` Yfd^gd^Y W
9 W^UZfW` SUZ W W S` W W da^fW^ad^TWZl [`efa` i Sd
eUZ [Zd W TW g-fl aTi aZ^W d^W gdl W fi W^Ylge W W
TW S_ ž6 [WUZg^fWg` V W W d W Z W B d_ W W? B W Z W e
i SdWS` [Z` Y W d W fž; Zd W S` Y W Sd[Z_ Xef ea` SZ W
VS- W [Zd W B_d W bödW] a` f W 9 W Sg i [W S_ S`e
[` W W = S` f^ V Z S f W e W a X d V W e f g S f a` [` V W S` V
Y W a_ _ W žE [W W S` ` l g e b d W W W Xef aZ W [W W [bb W
l g TW W W W _ [f W W T^a-W? gd W W V S e [` W W E f [_ ž
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ZSffW|7|` WZS`TWEfg` WWSZ` XZdf- i W` W|Sge WW
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W| 8g-i W|i |e|UZW4öe|UZWZ|` VgdZ- W| STW|fad|W|W|
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? WeLZW` aUZ [_ WTW[W]YlgeLZSgfWz3_ 3` X` Y
ZSffW_ S` W bSSdBXg[Žg` V@[WWDgXWZi dfl VaLZ
`gdha` VVBSdW [fy[W]W g` fW[W]? WYWG` Ve[W
ZSffW TS'V SgXWZi dZ6Se hadZVWUZWWM9WZ^i Sd
'W[Y]LZ @WY[W]WZ3geB` W aT Sge 7gdSeW aWWSge
AefSe[W]i SdWea W Sei [W]W Vsd[W]W[W]? S` eSZ
e[W]gUZefB[W]LZ ` [W]Sg-W [W]9WfSf ha` 9W S` YW
` Wl g` VeaYsdS'e 9W S` YWWV[S]_ _ S` ` [W] WsdS'e
W W öUZf[W]ELZ [_ W]ha` [Z` W]lg 9W[U]fz3gUZ
i g-fW_ S` ` [UZ]i SeSge [Z` W]i gdWSTY[W]W ha`
W W i W[W]W V[S]e = d[W]W dUZWYWZB` Yf i gdWz
6 [W]Td[W] hWZi S` W W YS` l W XUZi hW gf[W]LZ [`
Li S` YeSd[W]feSYW ž6 [W]g` W W ? a` Ya` WYW[U]fW
i gdW W]f ha` eLZ_ gfl [W]W T[B]f[W]W WZi b W
9W[U]fW _ WdWgabb[e]LZW 9WdWYWSTYW eZOTW
efabb[W]MSU]W] ` aUZWZ[i W]T[U]fW [` efa` 3gYW
S` l_ S` UZ_ S`_ [feWes_ W]7[Vd` Y[U]W] W S` ` i SdW
e[W] [W]W hWZi g` Wz6 [W]g` fW]4W]W]g` YXSZdWWW
=a`a` ` W] [Y[ZdW 7` W]gž;_ W]fW>Sefi SYW]a` ` fW
W]W] W BfW]W? S` ` eW]W WeW 9W[U]f W] W] [W
9W]fbbb YeSgW]: SSdW] Sd W]efS` V SgXWZf VSi V[W
: B` W]had eLZ hWZB`]fi S'e e[W]W]W]aZ` fi e[W]
8W]W] lg fdSYWz7ei SdZi UZefW]W] XdI [` efa` g` V
VSe? B]UZW] eLZ lg fdW` Wz;_ W]fW 3gYWT[U]
STW]i BZdWV V]W? WYW]e[W] aUZ X]f W] W]W]f Z[W]
fSeW]W]ZdW S` V` SUZ W]eW] [YW g` VYST [ZdW] W
öUZf[W] 6dgU]ž

ATi aZ^W` [UZ] B` YW]S'e l W] E]W]g` W W YWSgW]
ZSTW]a` ` fW]eLZ[W]W]W] WS` YW]W] VS- [ZdW B` W W

e[UZ_g_ ebS` `fZ[VWwz7dS` VLWf\ WW7[I WZVf [ZdM
 : S` V[` e[UZ SgXg` WZ_ Wz7dWkdUzfW[ZdWS` YW
 8[YWfVWZi` YWkd fw@BYWV[VScIVfZSdW` `WZ
 BUZW [f[ZdM[VZWh` EUZi [MMVSei WUZW8VWZ
 g` fWVW : S` VWW] ž3^W VgdZ4WZ[W[ZdM: S` V
 ZBfWWeqW [WWM]S` `fz9^WZiVf[YSTWf W[Z_ Wf
 VS- Wf` [Uzf i g-fWi WUZW8SdIW[ZdW3gYW ZSffWz
 HM_ gf[UZ i SdW e[WTdSg` l STWfTb` WfW? WeZW
 ZSffW_ S` UZ_ S^TSgW3gYWz6W=abXlg VdZWg` V
 e[VS` lgeVZMi BdWV Wg` hadfWTSdFadZWf YWVWz
 ;ZdW B WZ[VW e[UZ_g_]S_ _ Wf g` YWZV[` W
 V[UZfW 9Wd3` YWi BZdWV e[Wg` Wfi Wf YWSSge
 efSdWf g` V efSff Wf3gYW W? BUZWe T[Uf W
 I [`efa` V[W3gYW WfSfW 9WS` YWW fdSgdY Sge
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L =

I [`efa` egUZfV[UZ eW WI WfB YeWfha` >[Uzf g` V
 EUZSffW öTWb[VW 8g-bSWE` WW? Sfi W` V[W
 4öeUZWe[UZ fWfWf fcbf Wf[` YS` lW>SUZW Ya`WWW
 >[UzfeZLgd>[`] Wf g` fWVW 4B_ Wf i SdWf4aW
 öTWf f ha` T'SgW 9'aU WT'g_ Wz6[W'g TWbZdW
 V[W Sgf i [WV =g-ž7ei SdWf i V[VfSYW? a` Sfe
 ? SžHa` [dWVi a f[WfL : Wf W Wf S'W eUZ'gY
 VSe9gdW WfD[` YWfSgTWi WUZ'g` VhWZi a_ _ W
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7e i Sd` aUZ W i W[Y XbZž 6 [W8SZdf i Sd aZ` W
ELZI [W]Y WfW ha` eSffW YWS` YW- VSe ? bVUZW
i Sdea SgYWeLZW ^LUZ i aZ`TWUZ`SYWI VS- Wli W[YW
3` Yef W_bS` M S'eW` ad_ S`Wl W`VZffVZSTW_ öeeWž
HWL_gf`LUZ]a` `fW_ S` eLUZ VSdGxHwVSeeWl VS- eW
W W eLUZ W Ad]S` `fW;_ S`^W W W Vgd W_ S`
` [UZf S` `W_ Wl SgXW >S` W`VZdh[W eLUZ W S'e`
>a` Va` eWeflg eW ž8dM LUZ YST W[` Wl@Sfgd] W W
FWW leadM STW W T W S` V[_ W W V W V S Z dh W T ad W ž
` W? [] dabZa` W W W W Wef[_ VSg S` YW g` Vea lgd
8W e f W g` Y W e E b d U Z W e X Z d W] a` `fW- Sg- W W i Sd
W` [UZf ^LUZ f W W H M Y öYg` Yed W e W g_ SUZ W aZ` W
3gX W e S_] W SgXeLUZ lg ^W] Wž8öd 7` fXW g` YW
ha` i W[YW S'eZg` W W = [a` W W T d SgUZFW_ S` li Sd
] W W W a` W W W [f d Yg` Y[e W W B S- I S T W_ S` UZ_ S`
fd W W e LUZ SgXW 4SZ` Zi X V E f d W W Z W g_ I V W W W
B S b W W W W Sg X W S T W W B S d W [f Y [W e b d W g` V
b W ^LUZ W S Y W e W W ž 6 [W_ S` S T W i S d W] W W E f d W W
Sg X W Sg U Z f g` V Sg X W I W l g_ 4SZ` Za X Z S f W W e LUZ
Vgd Z had [UZf] Y W G_ T [U W ö T W W Y f VS- ` [W S` V
[Z` h W a` Y W 6 W l G Y i S d h a` W B d W W W W W S`]
W W e a_ _ W [LUZ W I W W e [T W W S W W W e f [_ g` Y ž 6 S e
3 T W W W W : a 1] ` S e e W]` W W W W W W W Z S f W i S d T [e
l g_ 4 W e f W h a` W W W W I Y W d W W W 8 S_ [T W W W W f
V W h a` W W l S Z ` a e W G d Y d _ g f f W T [e l g W W] S g_
Y W a d W W I [U W W [V Z [S g e X Z d g_ W W @ S U Z_ [f f S Y
T W H M S` V W Sg X W W >S` V l g h W T d` Y W g` W i [W
e W [` f a` a W Z W [Y W] B f W W W S e E L Z i S d_ S d ž
4 g f f W l g Z S_ e W ž

6Se 9Wf d b b b ʔUZFWWēUZl g` V W W W? [ʔgfWebbFW
]S_ WIS` WW dZ_ SWI W ha` WW e[WWbdUZW
ZSffWWēi Sd[9dg` WW gdW W8ZdFWVWSe H[VZ
li [eUZWWWfEdgUZW SgeYMWVZSffW7dTWAS-]W W
GZd STWVē]a` fW aUZ` [UZf X6` XVZ GZdeW ž6[W
9`aU]WTg_ WeS` WweaV[UZf VS- _ S` [UZf hW V W W
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W bSSdlgb öU W fVēg_ eUZ V[VWV]lg hWfM[WV
fVēSgeWd g` WgʔUZWHadfWg` YZVSe d VS- W S` l
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7dZSffWēZa` W W Yca-W EfdSg- lgeS_ _ WYVZ
TdSUZf g` V eaYWW lSdW eö-ʔUZW 6g W l S'e [Z
W 9WVgeUZ [eW W DöU W WfSchW ʔW, VSeg` hWZ
]W TsdW` SU W ha` Li WYWg` fWVW 9W[UZf W W
EUZgZeaZV7db öU fW V[WVēW V9`aU]WTg_ Wž7e
i SdVSe= ʔYefM SeWf g`]a` ` fW[VWVUZfi SdVSe
? B[WZVl h[VWVUZf STWēi SdW VaUZ hWV`Yf i adWž
E[UZ g_ lgtʔU W i SdW 4WVēeUZVZFW 9W [eeWž
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VS` fWVē[VW[VdöUZVg` VēUZ`gYcēdZ WW dZ_ SW
B[S V W l W V]` WVI SVZl W XZdVWA Wē[UZʔUZSffW
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i [UZ_ [f=W WUZS WW_ adēʔYWfWVW Sgežl [ʔfa`
Yl YZl fWVdW l` aUZ [_ WēV W 4g_ WefSg- [W
8SgežEM V W V 9 W Z`i SdVSe W V 7d[VUZVg` Y STW

S'eWVW]d3 [YW'eUZ'S]W>VThade[UZZWVW eSZ
_ [fVW'eUZScSUZdafWEUZ3bWVWUZ_ öU]fiV[VWVSWWV
YWgYS` SY g_ V[Vdg` Vg` Y[ZdW: ö WlgTmä` W
TWcbU fW[Z` W ? [` W W W[Y] W'eWVZ^ eVZdZW[Vž
EWef` Wf eUZ[W W` aUZ dWZfi SZdUZW` UZI VS- eW
i W` eV[eUZ_g_ VdWVg` V[Z` S` eSZ [ZdW 7` feUZ`g-
ß W i ödW6 [W öd [WVg` g` VVSeeS [WØd` W
4'ffW'eUZöZUfWV [Z` W žEUZa` SgXW I W ha_
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EfgTWZaU W[VWbadW ha` W >a` Va` WESgTg` VDg-
hWefab ž7e]S_ [Z_ lg_ 4Wg-feW l VS- eWZ` Tle
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YVWVZSffWVW S_ W W flg W g_ WfödfW4Sg_ l
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VScTWZ [i Wg` VfmW [fW [W =d3 WgX S` VVSe
eUZW Tsd`öU W aeW V WöeUZž3`eI [` efa` [Zd` SUZ] S_ l
WVW fWV VS- eVsgXW W Sföd[UZW >[Uzf g` YeS` Ž
W W W] W W ha` FS` ` WIRg_ UZW ha^] a_ _ W
W Y eUZ^aeWVWeföU DSeWž6Se? BmZW T[W eVW
g` Vi S` VV[eUZ_g_ ž

%o [de` VVS [eSYW eV

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TVW W ž@aUZ i SYW W [UZ^ BZW l g] a_ _ W ž

%ž i a`fW W G` fWZa1 ` [Uzf ebdWZW { l žZdeW
Xdf %cdWVS` VS- Vad W ? [] dabZa` hWfW f [ež, UZ
YSgTWV i Sd` [UZ STW V] i ` fW aUZ eW ž7eTWV
[_ W V [W` i Y[UZ] W VS- W W ha` V[WVW eUZi W W
g` eWV [_ W W W ž: [W e` Vi [dW badW ž

7dZSffW aUZ [_ Wf [UZf VW? gfi` BZWIS` eVZWZ
S` l gfdWZ

%Sl e` Vi [dZ[VWYWadWk i [WVZa`fWVfi dUZfz
%6aUZi eUZSgW E[VW[W4Bg_ WS` ž 7ei SdW` g` YW
7eLZWl V[WhadW [WVWVf STYVZa`f i SdW` g` V Wf
i [WVWl g W W I SV Vö` `WfEfB_ _ VSGeVWUZ`SYW
ZSffWl ha` WWW]W WfEfBd Wl i SdS`e W : S` VVZ
`W] ž%o[Wf[ef]W EFS_ _ l WfV[U] YWgYi BdWg_
W ? [] dabZa` VSc` l g hWfW] Wž3g-WW i Sd[UZ
eZa` W _ S`Z[VZ

E[V_ SUZFW` gd=a` hWfS[a` ž7di Sd[ZdWf` BZWl
YVa_ _ WžE[WefS` V eVZd YWfWVSGXWUZFW/had[Z_ l
_ [f W W V W[da` [eLZW>BZW g_ V[W g` Vi [] W
S`e öTWVWVWlWi Scg_ W[VWVf[UZ ea` S` YWVdSgUZW
l gdfSfl g eLZdWVWž6 [W0`aU] WT`g_ Wi SdWi [WVa`
eWfElg 4aWV WfWž7dWVd [ZdW S` Vž

%oödWV[VWd_ i Y[UZ ZSfW{l eSYWV%S- [UZ T]e
l g V[W W 3gYWT[U] ` [UZf YW g-f ZSTWl WZVWSSdW
;ZdW3gYW ZSTWk E[W SdW TdSg` l eWVWVWVW ha`
W W l [W UZ ZWV 4dSg` l _ [f eZi SdW I [bW ž
%6` V]i` ` W E[VW SUZWW E[VWVWVW ZSTWl i [W[UZ
i [d UZ SgeLZSgW_ W W 3` T[U] ` aUZ Wf dSYWk

%Sl aZ` W V[WVWZ

%bZ Tl` ` Wg` g` WdW-[Y-SZdVfz;UZ ZSTWV WScgl
V[WVUZ` [UZf eLZVWV B-fž3g-WW ZSTW[UZ=d_ bZ
SWf žG` V X` XS`eLZWL BZ` W

%6Se[ef_ [dha`efB V[YWVf{l eSYWVSe? BUZWž
;_ ` BZefW3gYWT[U] ~ g` VWi BdWUZi [WVYWVZ
eWl g eSYWl i [WVl gYVW` YW i Sd~ `SY e[W` eW W

3d Wz3` X YeWbX VW [UfeS'edWVG` YfgIT]Wz
6WigYWW[UZW=i dbWdZ_ [WfW[UZ S` eW Wl VW
V[UZWUZi bXZdWg`] W: SdW/SYhadW/W 9W[UZf-
g` V` g` ZSffW[WZ_ VSe 9W[UZf lgYWS` Vfi g` VW
]õ-fWZdWõbb[YW dafW? g` VzE[VZSffW[V3d Vg_
eW W@SU WYWUZ'g` YWl` S` fWZ` ELZSfl>[W]' Y
9WVWVW7dZSffW[Wg e[UZ ZWST SgXV[WdWVWNaYWl
eWl SdYS` l : [` YSTWVW]a` `fW_ [f [Zd_ SUZWl i Se
Wli a`fV3TW[I SZdZVf ZSffWVW] W Wji dbW[UZW
7_ b `Vg` Y Sg-WVWVWYWHMlg` VWZVf3`^Wl i Se
WVXZfWl SdEFSg` Wg` Vefa1z7dXWfV[UZ õTWVsd
i SeYWUZSZl STWVWbX` V] W]i dbW[UZWHMlS` YWz
I SdWl i W W ea bî fl ^UZ]S_ l i W [ZdWgYWW g` V
3` _ gf [Z` WUZdW fWl i W Wl g eVZdVSc` YWiZ f
i Sd aZ` V8EgWlg ^VW ~ WZlffVWV 9dg` V` [UZf
`W W]i` `Wz6Se? fWUZW dS` V[UZ SgXg` Vlgb W
W V9`aUj Wt'g_ Wsge [ZdW : SSzE[WVWfV[UZl WY
S` [Z` YWUZ_ [Wf W 3d_ g_ eW W õ VVWVz

%oSUzi V[d` [UzeVdSge>[WefV7eZSf] W W[VW [d
ZSTW VVYS` l W @SUZ_ [ffSYhadg` ež; ef VSe` [UZf W
bdUZf[YW HMeFW] l; LZ X` V Wl S'e [UZ_ [UZ W_ S^
SgXW W 9W W dZS eSge gYhWlSgXV ZSffWl W
W S` V]a_ _ Wea^fW]S` ` _ S` [Z` SgXZg` Wf? WVW
7` fXW g` YZi dWz

- %o [VZWf Vgk XSYW [` efa` ž
- %g ^[Sž;UZ i W-l i [Wwg ZWf-fzI [` efa` ~ I [` efa`
- E_ [fZz
- %o [VZSef Vg VSe ZWfSgeYWg` VWk
- %lZ YSgTW[UZ Tl` [` ea^UZW ESUZW fõUZf[YWlS'e Vgl

g` VeZ`WgWVfV6TWVWLi Wz6S` `lSeZSTVfW
 VSe4VbZdW [ZdM: õ WS` Vt SeWf` `Wf egUZfVfW
 [` WW FSeLZW [ZdMfDf [` YeS` lgye g` VTdSUZfWV
 FbWZWEUza] a'SWVg_ HadUZW žE[VtDfSUZ Wf` li W
 : ß` Wg` VYSTI [` efa` W EföU VSha` žEUZa` TMad
 WfWYWa_ _ W ZSfWVW] S` `fWVfS_ 9WgUZi VS- W
 WfWVZdg` YWiZ` [UZWEUza] a'SWV Sč6g`] Wg` V
 YB lWM g` V [` E[TVbSb[WVW YW [U WžEUza] a'SWV
 i SdYWiZ` [UZ W feg_ b dfg` Wtd eWVWLVWVW
 9WUZ_ SU] eaWV _ S` [Z õTWZSgbfTWZd[W] a` `fW
 WV DSGUZ WfW? õ`WgVfY[Uzž8cbZWVW _ S^ZSfW
 WfS`WVf` YeEUza] a'SWVWafW ha` WfYVUZW 3df
 i [WVSe EföU] f VSe e[WZ_ YSTž6 WfWfW SgUZ [ZdM
 6g WZSfWV Wd` `Wg` Yf [Z_ YWVW] fV[VWV [UZ
 Wf SYW] a` `fWV[VSTWV_ BZf[Yg` VTWg` dgZ[YWV
 i Sčž

%oa ZSeV Vg VSeZVWf XSYfWVž

%ha_ dZi SdW? Sd f]eSYfVfWVUZfZf` ž%[YWf[UZ
 YWz dW[UZ l g WfEadW? BuzWV TWVWWW WfEUZW
 fcbYž;UZ Tl` föUZf[Y_ Ebadž;UZi SdFdgbbWVZdM
 TWWVebZVf ž;UZ Tl` VdW S` [` WfV aUZWZdWZSTW
 XdV[WgYWV]YS fff[Yž;UZ ZSTVEfg` WV g_ Efg` WV
 VS_ [f hWfDfSUZf [ZdMfV Ve] ` [YW 3` eUZBYW` YS` l
 >a` Va` S` l g] VVWž4VVG_ l öYWfdSYWUZ W 7` WVV
 FdS` dbSdWVf;UZ eWVW_ _ WfWV öYf Sgeg` VVcbU W
 _ [UZ had` [UZfež; _ _ Wf [f WVI i WZVW Wf [ef` W W
 BSdV7e [ef V[VWV l [YW? i Y[UZ] Wf g` YWUZadW l g
 TVWVž

6Se WfWfEföU UZW EUza] a'SWV SdSgXI [` efa` e

Lg` YWVMS` YWz7eUZ_ Wj fVhad öY[UzZ3TWL_ _ W
` aUZdg` adVMS` WIA TW BZVAV W4Wg-feW eV[W
7d` ` Wg` YS` W Se Wg[UZ 7_ bXg` WWWg` V VaUZ
` [UZf YWSg G_ dW-TSdW i [WV 9 WWeS` V WW_ S`
` gd_ [f W W 3gYWi [] WMS-fz7deUZaT V[W Wd` Ž
` Wg` Yha` eUZg` Vi SdeUZ` gdTWg-fl VS- eWV W
7dW [e YSfl VSe W W W VaUZ h W V [UZg` Y W Z W W
W W SUZf ZHf W

%G T[ef eWd`g` Yl eSYWV%G T[ef l W aWVX` Ž
l W <SZdVö` WMS`e [UZi Se ZSf V[UZ` gdS` W W
? S` ` i [W [UZ S` l [W W] i` ` Wk

%ei SdW Se[` W W W 9 W [UZf; UZ VSUZFM[UZ ea`fW
W i SYWz; UZ ZSTW W YgfW 4[U VSd i W [UZf
VSlgYWi dZ EaTSV[UZ V[UZ eSZi g-fWUZi VS- Vg YWV
e[Vl[efž

E[Vf W V W eUZ ZMSged TW W W [ZdW ? g` W W[W
BSdVg` V hadS` W V[W` ` WBSdW öTW V W e[V [f
W W g` g_ i g` W W Z i Z [dZW: S- ebdSUZi W [[efa`
YS` l g` e[UZ W_ SUZf W aTi aZ` W i g-fWMS- e[VZ[W aUZ
S_ W W W [E[UZ W W i SdVZi Se[Z` T W [Zd h W ö W
i Sd V W 6 W W Z W [Zd W EbdSUZ W Ha` BSdV [fy` W W
i gd W W Sd W VS- e[W W W 8` öUZ W W eG UZ f W g` V
l [efa` eWef gUZ f W W de W W i W [Ye f We` [UZ` Sg f ž
g` [S` W aUZ dZ [W V [VBSdV g` V T W a` W e V [W` ` W W
BSdV [UZf W BZ` W l g] i` ` W aZ` W ad W ha` W W
Ead W g Y W eG UZ W V [W S` S` _ aVd Y W 9 See W_ Sg W
_ [f = d W W S` Y W Z d W W ` W z 6 Sei Sd [Z_ ` [UZg` S` Ž
Y W W ž 7 ei Sd` W [Y` [UZ W Ek_ bfa_ [Zd W 3g W g` Y
Y W W V [VBSdV g` V W febdSUZ [Zd W S` l W 3 d f [d W W Ž

i [WEL]W W` Sföd[UZ g` V Wg` V i [WSe ELZ` SgTW
 W W B X M W V Se W 9 Wg UZ ha` eUZ WZF W : W [V W
 @öefW T W a _ fzE[VZSffW V[W [UZfg` YhW SeeW g` V
 i S` W W i [W W VgdZ W W ha` W W E a` ` W W W W f W
 ELZSffW V[W 3 d Vg` W S` W W W W eaa W W I W T d W
 YWgYi Sd g_ EM[V S` EM[W g Y W W 7 d_ W J f M [W h] W
 i [UZ W [Z d W ö W e[UZ S` l g X Z` W eUZ[W e W W V W
 ELZ B b W a d i S e E[V g` f W Z [W W e[UZ` [UZ f` S g f W S e [_
 8 ö e f W f a` ž 3 g- W Z S T W W > [UZ fg` Y e S Y W g [S i B d W W
 T W e W T W _ 9 W W l g e Z i W W W ž @ g` i S d W e[V S` W W
 D S` V W W 9 W i 1 W Y W a _ W ž E[W T` W e V W W ž

% W Z ` [UZ f S g e W W 6 W] g` Y Z [S g e ž W S` V] i ` ` f W
 g` e T W I S U Z f W ž I [d e [V Y g f S g X W Z a T W e a S` Y W [d
 Z [f W W W 4 ö e U Z W T W W W ž

E[V W S` W W [ELZ S f f W ha` : Se W g- e f d B g U Z W ž 6 Se
 VgdZ V[W B f W W f W W E a` ` W [UZ f i S d` a U Z i S d_ S g X
 [Z d V 9 W [UZ W ž ž [` e f a` T [U] f V S g X S e V c b T W [W W W W
 8 W l g` V W e W e S_ W W W 7 d e U Z d W W W W I [W W W W ž
] W` W e VgdZ l g U f W Z` ž 7 d] S` ` f W W ha_ E W W W ž 7 [`
 S f W S T Y W B Z W W W W S` V_ [f W W W 8 g- b S W W l c g W
 Z [VgdZ X Z d W g` V V S g` V V a d f W ? S g` 1 g d X Z ö W ž ; `
 W W g` d W W _ B- [Y W : W] V S` W W S` W W W E M W W [W W
 e[UZ V [W l i W W W W G ^ W Y W S W W a U Z i S Z d W _ T S d [`
 W W [UZ W 4 d e W g` V [Z d W B f W W [d f W W e W V [UZ W
 4 ö e U Z W i [W 8 d g W Z S S e E [UZ W [UZ _ g- f W d W W i a [`
 W W @ B Z W S T W S g- W E [UZ f i W W W W 4 S U Z _ [f Y c b` W
 9 g_ b W e W l [` W W e[UZ i W e U Z W g_ W W ž

% [I f W Z [W [UZ f W W 4 S U Z [` W W @ B Z W ž ö e f W W
 W ž

%ff| _ fl W| 4SUZ|ef VSz7d |WfS_ DS` WWW` BUZZ
 efW8WWW7ee| V8[eLZWSd| l Yca-~~WXXfV= WVV?~~ S`
]S` ` e|W` VW9g_ bWg` fWVWI VWW eZI | _ W
 eVW|i |W|W_ |f |ZdW 8'aeW dgW| ž
 %e|ef TW| SZW |WSe9a'WWW'S` V|I_ gd_ WWWZ
 %oVZW9a'WWW'S` V|
 %oW| TW| _ fVZ7|` W'S` VdZS |V|WUZ_ S` UZ_ S^
 | FdSg_ YWVZW ZSTV|
 %LZSg`{ öefVfWg`|Sž
 7|` W6 daeWZSffW|UZ |W| W6` X? ~~WVfWfXf~~ f ha`
 |Z` W SgXW| W 3ef Xef |` |ZdW3gYWZi ZW |WVWVSež
 eWzH|WVUZf ZSffV|W|V|VWV` |UZf TW| W| fZE|W Sd
 |` W|Ea` ` Wi |ZdWV |W|VWV| _ EUZSffW efS` Wž
 E|VbdW|fW|V8'öYW` VVW|VeadX3f|Yi |WV| gdWZf
 VgU|fW| W 3gYWT|U| VW =abX S'e_ SUZfW|WVW|
 Ea` ` W|V W|W|VgYg` Y| g` V TWS` ` VS` ` |ZdW <gTWž
 YAS` YZ|` Sgd geUZ_ VVW| ž;` W|@SUZ_ |ffSYeef|`VW Sd
 V|W# dS` W|EF| _ WVWVWg hW|'ö WZ| |` efa` g` V
 g`|S efS` W W TWSgTWf 3d_ |` 3d_ ž6W9V8` Y|` Y
 i |WV? |` gfVSgX? |` gfW_ |f WfSg` |UZWHScf|a` W|
 aZ` V|UZ W| W| |YW? S^lgi |WVZaW| Xef S'ei a`fW
 W|HaYW|Z` W eW| WH|dfgae|ff TWVWz? S` UZ_ S^
 hWf g_ fWVXcdW| bSSdEWg` W| ebdW|fW|a` ` WgW
 eW| 9WWW|g` VXSfWV| |WV| geS_ _ W- VS` ` T|SZW
 W|eW| W|VbdW| WVW|dgef g` Vef| _ fW|a` ` WgW eW|
 >|WS` ž| |` efa` TW|TSUZfWVWZ_ |fZV| |UZW|4Wg` ž
 W|g` žI| W |g`|WVWXd| WZW Li W| |eS` Y|WV|
 HaW| =W| I |WUZW| |W| @VW|TgZ'W|TW|TSUZfWVW
 |Z` žI Se hWS` 'S-fW|Z` | e|UZ S_ DS` WWW` W| eS_ W

I B'VUZWe` [Ww]g'SeeWg` VeWVW ge] [e@[UZfelg
 eLZ_ Ww 1 7dXSYVeUZi aTh[Ww]Zf VaUZ [dWw] a
 [Ww@BZWV ?] dcbZa` hWwIadWw i Sč7dg` V-g`[S
 ZSffW` gd[_ 8'öefWfa` YwbdLUZw [ZdW adFW ödWw
 W` [UZfSg S` Yw]ea` Ww `gdWw9Ww` YwW6daeVč
 H[Ww]Zf 'SgeLZfWS_ S` Ww 7` WwW3bbSdSfWw
] Ww W] SXWd[Ww? S` `SgX W] eS_ ~ 'SgeLZfWwSW
 SgXVSeZ[Wč3TW'S` YeS_ hWfdWV[Vč8'gfWw? ge] S^W
 9čbTWwWwSgeeWw W 6W] Wč7ei SdS'eWw eeWfWfUZ
 i [Ww]WöefWV SeeWčTW[Z` g` VhWUZ_ i 1W [fWw
 VgdZVSe4Sffi W] eU W WwEa` `W[UZfz7dZi dWw
 Ww] W SgXg` VčTW[W eLZYS` l eW W 7_ b `Vg` YWč
 6W? B'UZW W [eW W 3d_ XčZfWfUZi WUZ g` V
 i Sd_ S` ž7dlaYeWw` eLZi ea VS- eWdčgef S` 4čgef
 'SYW- [Zd=ičbWfUZ[W_ [fWw eW WlghWUZ_ WwWč
 I a [_ WfW W S` VZ[fSeWw i SdS^W i WUZ g` V
 `SUZYW[Yi [W SeeWč;ZdW>[bbW X` Ww eLZ- W i Sd
 YS` l S` Ww S'e V[WZSdW XfW = öeWV[WfWadZw
 YWgeLZf ZSffWč3'e [ZdW WfUZfW i [Ww]ha` W S` Ww
 ST^Ww eW XfW TWw W Wč6 W hAYWwUZč] g` V aY
 _ [f W W 8'öYwUZi [dW VSha` ž

I [efa` WwW[W>[bbWS` [ZdAZč%ea_ _ { öefWw
 Wč

%@[UZf Z[W] öefWfWfW gčbU] ž%WZw i [di [Ww]
 [V[W>[UZfg` Yl gčbU] ž6ad [ef W eLZWw

DSeLZ TSZ fW eWfUZi i BZdWV[WLi WwWZ[` g` V
 i [Ww] `SU fW [ZdW I Wl g Ww>[UZfg` Yl gčbU] ž
 EaTS'VeW` Ww ha` FS` `WIBg_ UZW g_ YWwW
 Dg` VS` YW` Yf i SdM VdWfWfWfUZ g_ g` VeSZ [Z`

S` ž4VWWSf_ VW ZW[Y STW]VSe >βLZW g_ [ZdW
? g` Vi [] Wi Sdi [WV]WUZ[WWžE]WefS` VVS g` V
eSZ [Z` W W 3gYWT[U] S` i VS` ` fSe[W]WWSUZ WW
DW-hWUZg- WfFδ[` [Yes` lgYWžG` Vi SZdS [Y
~ Wi SdXef i [WV] Fδg_ ` 8Se[V]WWea dZ` Wi [W`
eW W BZS` fSe[W]ZSffW[W]UZ V[W≠ V[W]ha_ >V[W
YW]eeW g` V dZ`W[W]W[W]W[W]V[W]_ [f W[Y]WUZW
ZW[U]ZW 4W[W]g` Y S`eaT VS_ [f W]WWS` l WL[h[ef]a`
i WYW [dZf]lg i W[W] dZ[Wž;Zd=i dW]eUZ[_ _ W[W
i W- [` W]Ea` ` W6aL W W 3gYWT[U] `S` YT[U] FW
W[[Zf SgX[ZdW =i dW]eW W3gYW i SdW ha` W[W
ea_ _ W]bcae[YW 9W]UZf _ [f eW] W `W]eW] W] W
>βLZW YWS` YWž7d] ` [W]W]ad[Zd` [W]W]g` V` SZ_
[ZdW β W]` eW] W]

%oSe[V]g VSe dZa` XβZ[W]WMS` k

@Sföd[U]ZžELZa` Zg` W]f_ S^~ aW]W]W]S^e eW]d
a ž

%o [f BSd]MS` YWž d]YW]k

%S [_ W]_ [f BSd]MS` YWž d]YW]ž

%o [f >W]fW Sge W]f; ` W]W BSd]W]k

@W]i` [UZf _ [f V]W]W EUZi W] WžFcafi W] Y[If W
` Sföd[U] h[W]W]V]W]Se_ i UZfW] i W` e[U] [Z` W` gd
ZS`Ti We W] W? i Y[U] W] T]W]W i ödW]žE[W]` V` [UZf
ea ZW]Yi [W]e]W]g` ž

E]W : W] g]T]W]žE[W]ZSffW]e]Za` ea a YMS` - W]
i ò` dZfW]e[U]Zi Wi βd]Zg` W]žZaW]fSgeW]_ S^YW]ž
eWž3^W] i Se SgXHM]W]fZM]f Z] i [W] W]ž^fW]Z`
[_ _ W]i [W]W]_ [f W] W]i [^W] : a `g` YžI W]i W]-
h[W]W]UZf i SdV]W]BSd]W]g` fW] [Zd]W]ATW] βLZW]Sg^g` V

S` YWd3] W h | W W U Z f i S d | Z d = g f h a ` F ö U Z f | Y | W g ` V
E W e f | S e f V g ` Y W X S U Z W E L Z i [` W W Z [f W W W e | U Z V S e
> S e f W h W i S d ž i S e Z i f f W W V S d g _ Y W W W V | W S ` I W
4 S ` W W _ | f > W d S a W W E k b Z [^ e S ` l g e f W | W ` 3 ^ W i S e
l g d H W a f f i g ` Y T W f d g Y i S e e U Z i B U Z F W g ` f W _ [` | W W
7 d l a Y e | W g e | U Z W W g ` f W e a V S - e | W h a ` 3 ` W e | U Z f | g
3 ` Y W | U Z f] ` | W W ž

%oi dl gž < W _ W d h a ` | Z W V g Y W S i f Z S e f W e f a _ W d
^ | W W | U Z V | U Z ž 4 W W W f V g V S e |

%h a ^) a _ W ž

%l Z Z S e e W W | W G ` e U Z g ^ V | U Z Z S e e W S e 4 d S h e W ` ; U Z
i [^ ` | U Z f V S - W ` a U Z | d W W i a W | W F g Y W W Y | f ž ; U Z
i [^ V S - S ^ W > W f W | e [^ e ? S d | h W W i f e | V ž

%@ g ` l V S ` ` V ö d W | U Z V | W D | U Z f | Y W W d V | U Z e W | l > | W ž
^ | Y ž ; U Z T | ` T | e [^ e ? S d | h W W i f ž

%g e f V g W W W W ; U Z _ W W | U Z f ` g d _ | f _ | d e a ` W W
W X S U Z V | W E S U Z W S ` e | U Z |

%l Z ` W W W Z W h | U Z ž

6 S e i a ^ f W W h a d S ^ W _ Z i d W ž @ | U Z f ` g d V | W > | W W
l g W _ W ? W e l Z W e a ` W W W S ` _ S | e U Z W f d W h V | W
W X S U Z W T | W W W W W W 6 S e i S d V | W e d S l V | W | W S d W
| ` E f ö U | W e d W Y W i ö d W ž 7 d l a Y e | W ` e 9 d S e l i | e U Z W
V | W Z W S i Y W S ^ W W 9 ^ a U W T g _ W ž 6 | W _ S ^ e S ` V | W W
: W _ g ` Y | I W W 6 S ` ` h W S ` Y e S _ f W e | U Z V S e 3 g X g ` V
3 T | Z d W 4 d g e f l g ` a d S W _ D Z k f Z _ g e l g ` V [^ e W W W
: [^ a e | Y | W e S `] W e | V S g e W | S ` W W ž 6 | W e a ` ` W e U Z | W
Z W - W Y W a d W ž E | W S d W T W W W e U Z | B X | Y ž 7 d e f d W | f W
V | W S ` V ` S U Z W W _ S i Y W a d W W W F d S | [^ Y e S ` l g Y S g e
g ` V W W | f W e | W e a Y g f W Y | Y V S _ | f l g ž 8 S e f Y W | U Z V S d S g X

dZ'g _ WFW e[WV] g` V`SYW W S W VZS'TWf'g` WW
'S` Y[_ ELZ'SX

I [`efa` W SUZfW gWfz 7d eM fW e[UZ SgXg` V
TWfSUZfVWSe ea_ W bdae[YW9 W[UZf VSe ` aUZ
X[W^UZ dZ'SXW SgX[ZdW : S` VWW W W W W V S Yz
Ha` [ZdW ? g` VSTY W W W] a` fW S` g` [S W W W ^UZ
` [UZf eZi` ` W WzG_ V[W3gYWZMg_ i SdW W aW
li W = dZWX - Wi W _ S` YWSg Z[eSzZ6Se] gd W
Vg`] W SSdi Sdg` YWi Z` ^UZ V[UZf g` Vi W Zz7e W
[Z_ W IVS- W aUZ [_ W [UZf [ZdW @SUZ` S_ Wg` V
[ZdW3VdW W g-fW

6W g` YW] dX[YW=i dW W W W f [_ ELZ'SXea
Z[^ ae VS'SY i W] fW` [Z_ W _ [f^W] W 4W Zofl Ž
W W XZž3TW V[Vg` TW g-fW L Bf^UZ] W V[W] g` fW
W : SeW g-ef d g UZi TW > [W W 6 dae W W bXg` Ž
W W ZSffWi a^fW eUZ` [UZf i [W W YWSgea W ef W W z
7d eUZaT W W FdS[[` YeS` lgY TW e W W g` V TW fSUZfW
` SUZW] ^UZ [ZdWi W W i W ZW > W Z8dZ W _ g-fW
W W] W eSZ W ? S` ` W W > W W W ? B UZWe S`
g` V S` V [Z` TW W ZdWi W g` V VS_ [f ELZ'g-~ 3TW
Z W fl gfSY W ST W ea W Se i [W W W W W W W W W
d W W g e f ö TW Z S g b f ` [UZf _ W Z = W W 9 W Z` e d W g` Y
i Sd g` Y W d UZ W W W S` W i Sd_ [f 3` Ye f g` V : S-
Vgd Ze W f z ; Z d G _ Sd_ g` Yi Sd W = S_ b X W W W W
W W : i Z W g`] f W E [W z 7 e i Sd W Y W W V [W B S d W
Y W Z d W ELZ'SYž 7 [` ba^f [e UZ W 3] f z

%o[d]i` `W` aLZW_ S^Z[WZW] a_ _ Wł_ Wfwg^Sž
%o S^YW W W V S d X_ S` W d e j [W M W H W F W] li Wž
_ S^l g TW g f l Wž 3 T W` S f o d [U Z` [U z f [` W W` B U Z e W
W a W l i W? a` S f W ž

EaTSV e[V S g X W S U z f i S d Z S f f W e [U Z [Z d 4 W W Z_ W
Y B W F z E [W g d W W [`] g` V e S U Z [U Z l a Y [Z d W` V W W
S` l e L Z` S` Y e [U Z V [W U Z S d S U Z d a F W E U Z B b W g_ V [W ö W
g` V T W S` ` V [W [` l W Z M W X d V [W D ö U] X S Z d f l g T W b d W ž
U Z W ž, Z d V S e l g ö T W S e e W W E U Z [W W W Y S` l ` S f o d [U Z ž
E [W V W S- a W I S d W W b d S] f [e L Z W 9 W U Z [U [U Z] W f V [W
I [` e f a` X Z f W g` V S` e L Z W W V S g U Z W W g_ X e e W W W
= W f [e W W B V [U Z W G_ Y W g` Y > a` V a` d V [W e V S g X
l S Z ^ a e W 9 W W e L Z S e i S` W g` Y W Y e S _ _ W Z S f f W ž
6 W l l W W e [W Z_ X d V [W D ö U] W d W b X S Z i S d W
Y S` l S` W W I S` e W W S g X W W W Z W M W a_ _ W i S d g` V
[W [Z` S` W W I S` W W W 4 S Z` e f S f [a` Z W S g e] a_ _ W ž
% S Z d W [V S g X W W Y W [U Z W I W` S U Z: S g e M S g X W W V g
Z W M W a_ _ W T [e f l d W e [W Z_ l S` e h W l ö` W e [W W W W
i [U z f [Y M S` Y W W Y ö f [Y W > W z d S f l ž E [W ö d M S` e W F W
S g d M Z M g` V I [` e f a` e a` f W W V Z S` T W F g` W W S d W l
W W W [Z d` S U Z] S_ ž

E [V Z S f f W Z_ W W A d Y W S` ` f l S` W W e [W e [U Z h [W
F S Y W b F W S T W W e` S U Z W W 3 d [W f d W W] a` ` f W ž 7 e i S d
W W e f d- W W W W W l B d W W H [W F W [` W W W W W
e a Y W S` ` f W 8 d W W? S d f Y S l l S g X W W Y W i Z` [U Z > B d
g` V 9 W d B Y W Z W H U Z F W E [W ö d W e [U Z V a d f l i [e L Z W
W W H W S g X e f B W W Z W g_ f d [W W g` V e a f g` l S` e e g L Z W

e[W SUZ EUZ` ödew] W aW@BZYsd ži W e[W]Wg
XddW Z[W]i ödWVWUZTWVW W =a_ W V[V@SeW
eZ` Bgl W-S` W S^ea^fWWS'e] W WVeW [UZfS`
[ZhdacTVMWZž6aUZ_ [fW i W[Y9`öU i ödWVW_
9WdS YWWSZdaeW i W VV[VWfg` W [fW S` W
l g ebdWZW g` V W W V W M S T d W g` Y l g f d W W ž

% V W f _ g- [UZ YZW} eSYfVWVeaTSVWV[WZ_
YWWW I Vg` YW _ W adVf ZSffV%bZ _ g- g_
#z% GZdlgdbU eW ž;UZ_ g- li VVfg` W XdV[W
gWV[V S YWVEWgS`fBfabX ~: S` V W W W W W
aWVea i SeAZ` ^UZW;ef W` [UZf W VEUZS` W W4ödfW
_ [UZ_ S^SII` S eWVea Ygf` : SII [UZ SgUZ] W VLi V W
_ : SSdl 4[ef Vg SgUZ eUZW 6S` ` W i aZ^ >[W]` Y
SgXI [WVWZ{

E[V SdeUZ[` eW V B d W] ö-fWZ` V W W eUZS ^UZ
g` VTSZ` fVUZ W W 3gYWT[U] ebfW[ZdWI W VgdZ
VSeFS` ` W W f d b b l i a d S g X e W S` l ` S g f a e _ I S V
h W U Z I S` V ž @ a U Z _ _ W Z S f W W i W W [Z d W @ S _ W
` a U Z [Z d V d W W 7 d S Z g` Y W W S U Z f z 3 T W V S e _ S U Z W
` [UZf d W W W i S d e a i [W g` W W] T S d V S- e V e U Z W S e
g` f W W W 6 S U Z T W W W a W W W W e U Z d ^UZ W? [ž
f W g` Y _ [f W S` W S g e f S g e U Z W i ö d W ž

7e W S T e [UZ W a U Z I V S- e W [W g W W I S V ^UZ f g` Y
l g d b U] W d W ž; _ > S g X W W? S [e S` W W e W g d` a U Z
W W I [W? S^ 9 W W W Z W f l g W W [f _ W 4 W S _ ž
_ W e W ž 6 S e i S d [W W S` W W H M f W] V S e g ^ S
] S` f W W W 9 a U W f g d _ W W = [d Z W c g] W V W
W W S e f h i ^ [Y h W S e W W 9 W W W S Y i a h a d V W [Y
< S z a V W V B f a _ T a _ T W [W W W S` Y W i S ž 3 T W W W

I W VadZ[i SdeVZdYMSZd[Uz6[V6TdYWLW] a` fW
e[VeLU`gdSgXWVfS-WdWWW WW 3TWVS` W W
S` VVWVFWVg` V` [V6d'3 YMS'eXdW VZSTVf'g` W
3gXWVfS-W SdWYWi Z` ^LU`_iY^LU`_ [fW`S` W
lgbdWZMi W`_S` W TWf`_ fVHMZdWVZiWZ
I BZdWVqVWgdZ Vse9Wd3 YWV` YW` [W S'eVLUZ
` WWW` S` Wd'g` V aZ` WW S'e W` S` Wd'S` lgeVW
XZdW e[VWV W` W] i od[YWVdglZefo] i VVAG` fVZ
ZSfg` Y V[W [W[VfS'Z'WV W>WUZfgd` eSgXgU fW
g` V WaeZi TW` 3g SgUZW W WBSdVg` [Xd` aW
W VFWV[eade VZ [e EfaU W YWV VS` ` ? [gfW
dbfV` [ffW [W W ESf i [WVSGXWa`_ W g` V
VWwa b'i fl ^LU`g` fVIdaZW i gdWi W` eVS` W
hVW TSdWVFWVSGeW` S` WY` YWl_g` S` ` BZefW
FSY S'faZ` WOTVWf'g` Yi VVWVZdflgi W Wz'g`[S
dZ[W YS` l S` V[WV3d'G` fVZSfg` YWVi Z` flg eW` l
V[WVWSe %TlSZ'g` YeekefW { ` S` ` fVZE[W SdSgLU
WfSg` ^LU` YWLU[U fVsd` l YS` l aZ` W` [bbWTWVg` Y
lgbdWZwz@gdW V W l YW? S'i BZdWVW? a` Sfe
STWV^LUZWLgeS`_ W] o` Wea^fWV[Z` W YW` YW
W W=g- lg fSgeLZWzE[VW` YW YWVW ad^ae VgdZ
W V@VWVfS-W'g`[SbdLU` [W S'e[@VWVfS-W
S'e W` TWB'TWWW`=dLU Wfi` fVW[VWdWVWVd'g` V
Wd: [_ WeLU hV` eVWVW [` efa` X` V eLU l WZ
dZg` WW g` V WLUZaU W SgXW 4aWV ^WVz7[W
DS] WWTa` TW` g-fW` ` BZefW@BZW [WVWVW` YW
eW zBi fl ^LU`eSZ W` gdi W[VWVWV` W W V W fVSe
9WLUZ'g`[Sd'fafWV'S`-li W` i [W`S`] zEaYsd[ZdW [bbW
i SdW ha^] a`_ W i W`-ze[W Sd'faf` 7df S'e W eVS`

e[UZbdAFMWFVWU] fWVfVS- WfWf VVWf Sd_ W9W[UZf
]õ-fWg` V` gdWf WbgWfSdfYMTd eWYWFfSgTeZ[UZf
eWfW >[bbW [_ I Wf i Sč;ZdW9W[UZfWf i SdW V[UZf
_ [f? i dWõTWf aYWž

3` _ S` UZW 3TWWW]S_ WeVfS` [ZdW FdWbg`]f
g` V_ g-fW aZ` WfWf L[UZW Z[fWfWf S` WfZWWfWfWf
i Wf YfSfWfWf WfFdWfWf g_ V[W7U] WfWf aYW]S_ aWfWf
Wf : Wf] abfWfõTWf[Z W eZi WfWf 3TWWfSgUZi W Wf
i W[YWfYfWfZd[UZ YWfWfWf i fMfTWfS` WfW` aUZ YWgY
ELZi [WfY] WfWf V[WLWf XdWf DWfWfMhage]g WfõTdž
YWžI [`efa` e3d[WfWf e aUZWfSfWfWfWf [YfEfg` WfWf g` V
g`[Sei SdeaYsd` aUZ fS YfWf [ZdWfWfWfFSWfWfZi S`]fW
Wf SUZ Wfõ6d` Y[UZ] Wf Wfõ3d[WfWf g` V WfWf fW e[UZ
eWfWfž-g`[S WfWfS`eZSfWfSg_ WfWf 3TWWfYS` I Xd
e[UZžE[WfWf S` V[WfWfSg` [UZ h[WfWfWf SgXWf 4WfWfUZ
ha` Hafd3YWg` V[VfWfWf SZ_ Wfa` 6Wfa` efdSfa` Wf
fWfWfSgYeUZd W XdV[WfWfWfYfYS YWfWf EYfWfS`[fBf
Sgd` BZfWfSfZ WfXdV[Wf S-ž aUZWfS` _ WfWfõdWfWf
EbSdWfWf gYg` V[WfWfWfUZW_ WfZdEa Wf Se_ SUZfWf[UZ
TMSZ`f_ Wf fWf[WfWf i SdV[WfWfWfSd g` YžI W` _ S`
V[WfWfWf W9WfWfWfZ[Wf] a` fW_ S` YWfWf[WfWf-W
hWfWfWf-WžE[WfWfS` S-fW [`efa` eaYsd` aUZ WfWfWfWf
XfWf 3TWWWf g abWf i [Wf Wf e[UZS`e: WfWfTWfWfWf
? g` [fa` eefõU] Sd[WfWf hWfõ [UZfWfWfWfWfWf WfWfWfYfWf
BSdfWf [fY[WfWf XfWf [^YhWfWfUZfWf i gdWfWfEa hWfõSUZfWf
I [`efa` S` WfWf 3TWWfWfWf aUZWf[WfWfõdZfWf[UZ
S` Yi WfYfWfEfg` WfW_ [fWfWf LgeS` _ WeUZdSgTWfha`
? WfS`eõU] UZWfV[WfWfWf g`[UZ 4WfS` V[WfWfWfWf 4a_ TWž
lõ` WfWf i SdW~ [WfWfWf gY[YWf eUZWfZfTWfWfUZfWfWf

I W] eSff i a VSe: B _ W] e[UZ fcaef'ae_ [f W] ? ge]
Sge WW FWW]eadW hW] [eLZfV]

3^ee[VeLUZ [W] 9^aU WefgZ^W= [dZfgd_ efdSXM
W]S lfw e[W]W-öU W [ZdW]TgUZeföU i W]W G^ fWZ
ZSfg^ YWž7ei SdW] YöZWWZM-W]@SUZ_ [ffSYž6 [W]g
[W]] W] W] h[W] [YWDsg_ öTW]WW9^aU Wi Sd
VbU] WWg^ V]ef[U] WWg^ VcaUZ VgdZVd^ YWV^ SUZ
FSgTW_ [efZ]W]S-Wefg^ W]S^ YSgXW] eSgT]YW]_ [f
eLZ_ gfl [Y] DM]YTWW] fW8g-TaWWg^ VbSgW]W-
ha^ LW]lgLW]eS^ VW]W]ha^ [Z^ W]SgXg^ Vi SdW] W
4[U] VgdZ V]W]UZ[W]eLZSdW] g_ eLU]lg öTW] W]YW]
VS-` [W]S^ V]S_ ž

g[Si SdeWZeg^ Mi S^ l[Y-SZd]SfzE]W aZ fW] W]W
: W] _ [f VdM-[YS^ W]W]g^ YW? B]UZW]lgeS_ _ Wž
/‰_ W] [W] I W]W]W]S^]^ I [M]UZ W]W]SgWZSeeW]fi
G^ Ve]W] Sdi [W]W]W] g]W]ZSff]S^ W]Da_ S^ eLZd]W]Z
_ SeLZ] W] W] > [W]Sfgd]T]W]g^ YTW]UZ] [YfzE]M]W]W
[Zd]Bd]W]V]W] W]e: SgbfeSUZ] W]e: S^ VZST]g^ Yg^ V
4W]W]g^ YW] W]eSd] W]ST]W]eVZd] a_ b]l [W]W]7^W]fcaŽ
_ afacE]W]S^ VžE]W] Sd^ [UZ]TW]a^ W]e] fW]YW]f]ST]W]
_ S^ g]W]Y]W]UZ]U]fg^ VYgf_ [f W] ? SeLZ] W]W]h]W]Sg]fz
E]W]a^ ` fW]W]YS^ I W]3d]W]e]S^ YW]W]lgeS_ _ WefW]g^ Y
W]W]Da_ S^ eTW]UZd]M]W]S^ Y]S^ YW]ha^ W]VgdZ]VSe
B]S^ g^ Ye]a_ [fW]Z]Sg]eY]W]W]W]D]UZ] [W]T]elg W]
W]fW]ha^ W]G_ eLZd]W]Z]g]bb]V]Sg]W]W]fW]9^S^ IŽ
^UZ]W] ž3TW]e]VZSff]W] ; ` fW]W]S^ W] 7^ VbcaVg] fž
%BZ_ SUZ]W] [d^ [UZ]h]W]Sge4öUZ]W] {leSY]W]e]W] SdW]
W] 3d] [W]W]Z]W]W]W]f] W]W]_ g-f]M] [W] Sd_ V]W]
aW]W]UZ]gZ]B] W]e

E[VZSffW] W W/W/7d` `Wg` YS` V[VLWf had VW
 eWZ [YW<SZdW- W/W/I [YW? WeUZ [[ZdV G_] dM
 W/Zlg Yha` W/LWf had W/DWka^gf[a` YWbcaZW
 ZSffWi SdW 9da-hSfW W/W/WUzi g` Wwi SdS'e e[W
 SUZf <SZdWsf i gdWz;` W/EUZg`W SdeW3` XZdM`
 Wf: aU WZ? S` `eUS YW/WW g` VZSffWi W<SZdW
 Z[fW/S` W/WW >V[ZSfZ/W] bM eYMa` `WzE[W Sd
 FdgbbxZdM` TWWW EbZWf g` V: [XeW/dM3d` TW
 Wf= [W/YSYW/WM TWade[W V[WgYW/YSYWW
 EWgS[fif W fofz; Zd8oZdg` Yd WY [ei Sd[_ W/haz
 loY[UZ YW/WWzE[W SdeaYsdVl g SgeW/WZWi adW
 ~ g` VVSe i SdW g` fofY[UZ W/LWY [e Xod W WYgfW
 8oZdg` Y-I [W/G` fMSfWg` YWW >[fMSfgZ3TFWg` Y
 lg SdTW/W V[W/ ^[YWbad aYcbZ[eZWd WY [eeWg_
 HM] SgXTW/WW Bca`W/ZWfW/W/6ad i Sde[W/W <Zd
 YW/[WW g` VZSffW` LWabZS` YW[U W/W/adeZodW
 _ [f F[fW i [W%q/VWg` V: [W/aW/%d` W@SUZf [`
 W W ? BVZWbWe/a` Sfl bcaVgl [W/W ZW/W V[VZV Z
 [UZ ha` gYWW[UZW SgeW W Bca`MSdSf YMSg i gdW
 Sd_ W 3Z` g` YeaeW V[W/S_ [f W Se YW/W [UZ efdWY
 HM/fW/W g` V [YZV W: W/W/W/W/g W/W/W/W
 YSgTFWz

%oSe e[VVSe Xod4oUZWk XSYFW [` efa` `WY[W/Yz
 %Zi oeW/EUZg` VZE[Wf` V/W/W/[UZ eAZdS` Yi W/Yz
 7eY[IF` gdeWZe_ i Y[UZW/W [U g` YW [Wf: S` Vg` Y
 V[W_ _ W` gdW T[-UZW STYW Wf i W/Wz;UZ i Sd
 `Sfod[UZ` gdS` WW=S`Wae] abW TWUZ3 [Yz@[W/W
 W/G_ eUZdM/VZ9 dgbWz;UZ T[` [UZf [fMSdeUZ YWgY
 _ W >[W/W~` [UZf W_ S^VSl gi odW/W/dMZWz

? [f 7dɛSg` W WkZdW VS- [` WBad aSfWg` Y
Sg-WVW >VWVW3fWg` Y` gd? BuzWTVZB [Yf
i gdWz? S` Y` YVSha` Sgd VS- V[W? B` W V[W[UZ
Waf[eZ` [UZf ea` WZfTVZHUZW] a` `fWi [VBSgW
Yd -WVVSZd` VW VgdZ WW EUZ_ gfl` _ [f WW eW
eUZ STYWW _ g-fW hWadTWlg i Wwz

%WVW` W Vad` [UZf W` S` YW hWZMSfWBSgW
S` {i XfWg` [S Z]` lgz`%W? BuzW i [dV _ _ W hadz
SgeWVf VS- e[WV e` Vz@Sl [UZ T]` W` WWS`e
` [UZf

E[VZSfVS`eWZi W` VZdYWZdWefV`VWVS BdW [f
W W eWZi [Y<SZdSfW BSdVW [fY`W YZSH W W
? S` `i WdebVWef` ad`TW` Ylg` WdHMS g` Y
lg WfYZWz`%` VVSei SdW 9`oU {i XfWg` [S Z]` lgl
%a` ef ZffW eW W W @S_ W ha` [Z_ ZVSGeTWa` Z
_ Wi i W` WYVS` W ZffW ;Z_ i SdW ISZ`dWZ
S` WYV` Yfz` [ZdV 3gYW eWV[UZ Vse>WV eZd
W` SZ VSz? S` i a`fWV eUZ eWef ea S` YWZ_ i [W
_ i Y[UZ_ SUZW- %W VSeZW` fV[VBSdV] i a`fWV W
VSd` Z]` Wd - S`ea oTWdf` _ S` V[VW VVi a` _ S`
`gd] a` `fW`g` [S dZ] W W VVea` Sfod[UZ lg ` W
VS- %W W W S` W HMY` oYW dSgTWi a`fW [VVS-
_ S` eWef hWgUZfW[UZ` [UZf W [eUZWlg` SeeWZe[W
ZS-fW[VBSdV]g` VebdSUZ Vse` W W WefWI adW
Sgd STW eWofWVWV] W W=df] S` [ZdHa` W
Bg`] fWSTYVW i a [ZdVW>VWVS_ [f` =a` []f
] S_ i ZSffW [W W W;` fWVS` W W 6a] fd` W W
BSdV [` fa` TW W VMS- eW [W S`@VebdSUZ adW
TW gfl fMSg- W W i W [W V[W` V[VG_ YS` YebdSUZ W

W YMS` YW i SdWzE|WZSffW [WMI Se ha` WMI %cbZ
 WfUZS { YWi df g` V`VZ fWWSgUZ SII S` [ZdHadZS` Z
 WWeW l g YSgTWz<WWW3d adS` [e|WfW3g VZ` g` Y
 YWW V|WBSdWf V|WS` `afi W|YMI V|WVZ`eUZ`SYW
 _ g-fMZ|W e|WVdVg_ _ ž9WWW|V9WV|WghWfa-W
 g` V VSTWef S_ >WWW l g T|TW ~ VScgX|S_ W
 S` ž7dXSYW|UZ_ [f W W g` Twf|_ _ fW9WZ1i [W
 h|W? WeLZW [ZdWfkgge Wi aZ^g` fW|W|`o` YW
 9WBS|a` YWW_ aUZfW? WeLZW V|W V|W W W W
 DWa^gf|a` Z|` W YW SUZeW i SdW g` V` [UZfeS` W W
]S` `fW V|W|WBSdWfS`e W Seea G` SIB W|UZWi [W
 W W: [_ W l g [ZdW: fgbW Z|` `SZ_ W| aZ` We|UZ
 YWW [ZdW3gfad|f|f SgXg^VZ` W| ea` W| [ZdW XSUZ
 Sgei [UZW i [W| : SeWZS] WeLZ`SYWW W W : g` W
 l g Wf|a_ _ W egUZfz

E|WbdSUZW` [UZf öTWV|W? i Y|UZ| Wf W W|: WdSfz
 E|WSY|g XW l g_ e|UZ öTWZSgbf VS_ [f l g TWUZB [YWz
 ? S`]a` `fW|UZ] W W BcbXg` YeSgeUZg- hadfWWW
 W|W W|ea`UZWHMI|` Vg` Y W S`e YWVZ_ [YW i ödW
 eWef i W I [`efa` e|W V8Sg=SfZW| W|dWWi [VZffW
 ^aei W W]i` `Wz7ei Sdli W| ^ad e|UZ VSeSgUZ` gd
 Sgd g_ S Wz

%o [W SdW Wf|UZ W V8Sg| XSYWg|Sž

%W Sd~] W` ef Vg VSe@WbdSUzi ad YgfW| ha^1
 7e TW Wf| ha` @Sfgd Sge adZaVaj l g` XZ|Y| W W
 G` hadUZd| e_ B-[YW9WS`] W SgUZ` gdl g XeeWž

%W| i [UZ] S` `fWSeI ad` [UZfž3TWV|WWEadW
 ? WeLZW] W W|UZ` gdl g Ygfž

7dTW S` ` [ZdV|W9WZ|UZfW W| 7ZW g W| BZ`W|

STW eW eS_ Wl V eW eZ|W e|WSeI W eW f^|UZWSha`
TW W e|g|W W zE|TW W Z d|W |Z_ lSe ZSTV e|W e W W
_ [f W W f a W W Y W Z f i |W = S f Z W | W = i d b W W e S d W
ea IS V W e|W g d T W b Z d W g` V i |W e|W Z` e W e f V S` `
` aUZ_ |f |Z d W S` l W = d ha` e|UZ i W g efa- W eUZ|W i
i W` [Z d W B d_ W W Y g_ [Z` Y W eUZ` g` Y W i S d W z` 7 e
T W W W W Z_] W W eUZ i |W |Y| W f i _ |f <g` |S o T W e a U Z W
6 [Y W g e b d W Z W, = S f Z W | W S d W W W S` e B Y e f | W W
eUZ_ W i^|UZ W d` ` W g` Y_ W d ea` W W ` g d` aUZ W W
g` S` Y W W _ W

% lZ Z f f W W` aUZ S g e Z S` W] i` ` W i W` ` [Uz W W
E S U Z W W W W i B d M e S Y W W Z G` V W W i B Z f W Z d h a` W W
X |Y |W W | W W L W W a` [W W |W Z` = S f Z W | W W M g` Y W
Z S f f W S` i i U Z W f^|UZ |` W W Y W U Z W @ S U Z f S g e d g X Z d W z
% e i S d |Z d Y d g^|UZ i S T W | [UZ f e|` W W i W Z f f W e|W S l g
T d` Y W] i` ` W i W T W W W l g` See W z

E|W S` ` f W W | _ W i~ S T W i V S e W H f e f V g` |W

% G` e W W B X |Uz f Y W W o T W W W B S d W | i e S Y W g` |S
b d a_ b f z

% b o a Z W i W f V g V S e k

% b Z i S d eUZ^|W^|UZ S g UZ |` W W eUZ g` W_ W > [W W z
3 g` B d g` Y e g` f W |Uz f X d` g` Y W B U Z W o T W e W Z i W z l
W_ S^|_ ? a` S f z;` W W g Y W W T W W g` Y W e Y W U Z W z
E |W d U Z W W W V S e S Z d W |` V g d Z W z G` V |UZ | S` `
i a Z ^ T W Z S g b f W i V S- e|W` h |W W 8 B` W 7 d a` Y V S_ |f
Z S T W z 3 T W i_ S` i W W` S f o d |UZ` [W W |W? W eUZ W
e|` V e a eUZ W Z M |Y z

G` V e|W W S` ` e|UZ i W W W o T W W S e W S S g e d g` See W z
4 W g` |S V d W W e|UZ S` W g_ [Z d W W W W e|` ` |UZ| W f z

EaTS'V V[VW]dWVi [W_ Eb[Wi Sd]a` `fve[Vsg-WZ
adWf[UZ dZSd]` [YeW ž;_ 9VWesfl lgI [`efa`
i Sd[ZdW >[Uzf öTWVW VWF[UZW Li W] WefdwZ
YWBSdFWa] fd` [`eVgVW 6[`YW SgXMS` YWZEW
i gdVsgXWZVZS'FM [Uzf` gdi W'VVEWGS'fif eUZ
W] W] W Xde[UZ lg dZS W hWes` V] V[VSg-WZS'T
Wd=a` fca^VWVBSdW/SY ea VS- eW SUZ? i Y'[UZ] Wf
g` fVcbU] fi VWW _g-fW ea` Wd hadS^W 6[YW
i W'V[VeVgVW] fZS'feS_]Wf lgd: kefV[VZdVg` V
VS_ [f W WefVW ei WFL[VWV]Uzf i gdVWVW
V[VW kefV]W] a` `fW` =d[VeVW]fVg` Yg` V 8öZZ
d[VW]Zdg` Yg_ YWS` W i W Wz`-g'IS VcbU] fWSe
X^YWWW S-W Sge

%W >[VW]b[VW]fSgUzf_ S` 7 W[V]g` VZ[fVW
XZf_ S` e[UZ Y'öU] [UZ g` VbX] SgXS^WS` W W6Se
]i` `W e[W [Uzf WfS'WZEW a^W] VS- _ S` efB V[Y
lg_ BSf]W_ [f 7 W[V]VWSW [efz6 [W]S` I V3gXg` V
3T_ SdUZ[VW]: gdS4cb^W g` V 8SZ` WeZi W] W
[efi W[V] [UZfeS'eeSgWYW adWWE]` [UZ] WZi W`
_ S` [`W[UZ Y'öU] [UZ [ef]S` ` _ S` i Wd öTWVW
9da-W4dgW aUZ W W 6d[VZSZdW]S' I V[W]i WZ [`gZ
fWZ S-ŽEWg` Yg` V W YS` I W öTd[WELZi [`W]
4W[V]fVg` YWBSFW{

6Sei SdeVZdd[UZ]fY VSUZFW [`efa` ž7eTW]S` V W
g` _ [fV]SdW V W W LgeS_ _ WZS` Yli [eUZ W 7 fZS'fZ
eS_]Wf g` Vba[f[eUZ W]f dWY]f g]T]Y WZ: BfW_ S` ea` ef
8gdZf: S- g` VS` Sf[eUZ W 9 SgTWi [V]W[VBSdW]W
[ZdW? [fY[W] hadSgeW fW] W d[UZ]Y W] W Y'gf
WZS'FW]i` `W i W _ S` [Uzf W]W_ BZf]Y W GdfW

