LING5029

H\Y˙DgmW\c`c[m˙cZ@Ub[i U[Y

HYfa ˙Hk c˙˙##˙˙&$&%

7 ci fgY Cj Yfj]Yk

GHJZ 7cbHJWh 8YHJ`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]hm	@cWJh]cb	D\cbY
G]h\Ya V]b_cg] 8i VY	g"Xi VY4 i bgk "YXi "Ui	6mUddc]bha Ybhj]U Y!a U]`	A cfj Yb 6fck b	6m Uddc]bha Ybh j]U Y!a U]`

@YWhi fYfg

B Ua Y	9a U]`	5j U]`UV]`]hm	@cWJh]cb	D\cbY
G]h\Ya V]b_cg] 8i VY	g"Xi VY4 i bgk "YXi "Ui	6mUddc]bha Ybhj]U Y!a U]`	A cfj Yb 6fck b	6m Uddc]bha Ybh j]U Y!a U]`

GWXcc` 7cbHJWh]bZcfa Uh]cb

GWXcc` cZ <i a Ub]h]Yg UbX @Ub[i U[Yg

@cWJh]cb. GWXcc` C Z/W YžA cfj Yb 6fck b 6u ]`X]b[ž@YjY`&ž&),

C dYb]b[<ci fg. A cbXUm! : f]XUmž-Ua !') da

D\cbY. Ž*%&'), '%*, %

: Ul . Ž*%&'), ', +$)

9a U]`. \U`4 i bgk "YXi "Ui

7ci fgY 8YhU]`g

7fYX]h Dc]bhg *

Gi a a Ufm cZ h\Y 7ci fgY

H\Y dgmV\c`c[ mcZ Ub[ i U[ Yž cf dgmV\c`b[i gh]Vg ž g h\Y gW]Ybh]Z]V ghi Xm cZ h\Y fY`Uh]cbg\]d VYhk YYb `Ub[i U[Y UbX dgmV\c`c[ m" H\Y a cfY mci `i bXYfghUbX UVci h h\Y dgmV\c`c[ mcZ Ub[ i U[ Yž \ck `]h]g UWei]fYXž UbX \ck `]h]g dfcWYggYXž h\Y a cfY mci `i bXYfghUbX UVci h mci fgY ZUbX h\Y dYcd`Y UbX k cf`X Ufci bX mci "₊b\]g Wci fgYž mci `k]``YUfb \ck k Y UWei ]fYž XYjY`cdž UbX i gY `Ub[ i U[ Y `b [ YbYfU` UbX gdYW]ZU``gYX `WcbhYl hg" 6mXYjY`cd]b[`Ub i bXYfghUbX]b[ `cZ WcbhY a dcfUfmYgYUfW\ a Yh\cXgž `bW`i X]b[`Ub[ i U[ Y dYf cfa UbWY Ug_ gž Ymb\ fUW\]b[ UbX VfU]`b a U[ ]b[ž mci `k]``XYbh]Zm h\Y fY`Uh]cbg\]d VYhk YYb `Ub[ i U[ Yž Wc[ b]h]cbž UbX VY\Uj]ci f" Mci `k ]``YU i Ufh `h\Y Udd`]WUh]cb cZ Uf]ci g `b XUm YhUf UddfcUW\Yg `b dgmV\c`b[ i gh]Vg hc ]XYbh]Zm \ck h\Ya UWei i bh]cf h\Y dgmV\c`c[ ]WU dfcWYggYg i bXYf]m]b[h\Y dfcXi Wh]cbž dfcWYgg]b[UbX fYdfYgYbhUh]cb cZ \i a Ub Ub[i U[Y" Mci `k]``U gc Yl d`cfY Uhmd]WU `Ub[i U[Y XYjY`cda Ybhž Ub[ i U[ Y a dU]fa Ybhž UbX W]b]WU `Wcbhl hg"

7ci fgY @YUfb]b[`Ci hWca Yg

%" XYgWf]VY `UbX `Yl d`U]b `h\Y a cgh `Wi ff]WU `]ggi Yg `bj c j YX `b h\Y]bhYfUWh]cb `VYhk YYb h\Y VfU]b `UbX `Ub[ i U[ Y `b `fY`Uh]cb `hc `\ck `Ub[ i U[ Yg `UfY `UWei ]fYXž dfcWYggYX `UbX `ghcfYX"
&" Udd`m `[YbYfU `df]bV]d`Yg cZ `Ub[ i U[ Yg `hc `Ub[ i U[ Y UWei ]g]h]cbž `Ub[i U[Y Wc a dfY\Ybg]cb `UbX dfcWYggž UbX `hc `Uddcg]h]Y `bYi fc`c[ ]WU `dfcWYggYg `bj c j `b `Ub[i U[Y"
'" Yl d`UhY `h\Y VUg]g fY fYgYUfWUf\ `cb `fU]b `XYa U[ Y UbX `Ub[i U[Y a dU]fa Ybhž ffYU_Xck b UbX `cggž UbX `Ub[i U[Y UbX `hci [ \h `
(" Wf]h]WU `m Yl U a ]bY `UbX `YjU i UhY `a cXYfb `UddfcUWYg `b dgmV\c`b[ i gh]Vgž `b hYfa g cZ h\Y `f ]dck Yf hc `UWWi bh Zcf h\Y dgmV\c`c[ ]WU `dfcWYggYg i bXYf]m]b[h\Y `dfcXi Wh]cbž dfcWYgg]b[ `UbX fYdfYgYbhUh]cb cZ \i a Ub Ub[i U[Y"

HYUW\]b[`GhfUhY[ ]Yg

H\]g Wci fgY i gYg `Ub ]bhYfUWh]j Y gYa ]bUf Zcfa Uh hc ]bhfcXi VY h\Y VUg]W WcbWYdh] U `X]gh]bWh]cbg `UbX dfYgYbh h\Y Z bXUa YbhU `fYgYUfW\ k \YfY h\Y `WUi fYf k]``YbXYUj ci f hc a U_Y cf[ ]bU `hYUW\]b[ WU `fYgYUfW\ a cfY a UbU[YUV`Yž"   \

5ggYgga Ybh

5ggYgga Ybh`HUg_g

5ggYgga Ybh`HUg_	K Y][\h	8i Y 8UhY	Gh XYbh @Ufb]b[Ci hWca Yg 5ggYggYX
DfcV`Ya gYh	&)ı	%, #$*#&$&%$(.$$ DA	%ž(
+b!WUgg hYgh	&)ı	B ch 5dd`]WUV`Y	%ž&ž'
DfYgYbhUh]cb	%$ı	5g fcgh YfYX	%ž'
9ggUm	($ı	$-#$, #&$&%$(.$$ DA	%ž' ž(

5ggYgga Ybh 8YhU]`g

5ggYgga Ybh % DfcV`Ya gYh

GHUfh XUhY %.%* #$*#&$&%$(.$$ DA   ‰ ‰   ‰ ‰

@Yb[h\. &) g\cfh Ubgk Yf ei Ygh]cbg

8YhU]`g.

Ghi XYbhg k]``VY fYei]fYX hc UbU`mgY gca Y WUgY ghi X]Yg fl !‰ dfcV`Ya gŁ]b fY`Uh]cb hc dUfh]W `Uf   Yg]   ‰
dgmWXc`]b[i]gh)]Wggi Yg" H\Ymk]``UXXfYgg h\YgY]ggi Yg VmUbgk Yf]b[j YfmgdYWZ]Wei Ygh]cbg XYg][bYX hc

8YHU]`g.

%$!%)˙a˙]bi˙h˙Yg"˙Gˈh˙XYbhg˙k˙]``Y˙Ugg][bYX˙U˙dfYgYbhUh]cb˙cb˙U˙gdYW]Z]WˈWcifgY˙hcd]W"

Gi Va˙]gg]cb˙bchˈYg.˙DfYgYbhUh]cb˙Ug˙fcghˈYfYX˙UbX˙ghˈXYbhg˙aigh˙gi Va˙]hh˙hY˙f˙Dck YfDc]bhg˙]XYg˙VYZ˙cfY
h\Y]f˙gW\YXi`YX˙dfYgYbhUh]cb

Hi fb]h]b˙g˙YHh]b[.˙H\]g˙Ugg][ba Ybh]g˙gi Va]hYX˙h\fci[\˙Hi fb]h]b˙UbX˙ghˈXYbhg˙Xc˙bchˈgYY˙Hi fb]h]b
g]a]`Uf]hmˈfYdcfhg"

5ggYgga Ybh˙(.˙9ggUm

GHUfhˈXUHY.˙Bch˙5dd`]WUV˙Y

@Yb[h\.˙5ddfcl]ma UHY`m˙&ˌ)$$˙k cfXg

8YHU]`g.

H\]g˙]g˙h\Y˙Z]bU`˙UggYgga Ybh˙&ˌ)$$˙k cfXg"˙K f]hhYb˙ZYYXVUW_"˙H\]g˙]g˙h\Y˙Z]bU`˙UggYgga YbhˌcfˈUhhYbXUbW�
di fdcgYg"

Hi fb]h]b˙g˙YHh]b[.˙H\]g˙Ugg][ba Ybh]g˙gi Va]hYX˙h\fci[\˙Hi fb]h]b˙UbX˙ghˈXYbhg˙WUb˙gYY˙Hi fb]h]b˙g]a]`Uf]hm
fYdcfhg"

F Ygci fW/g

DfYgW/f]VYX F Ygci fW/g

D˙YUgY˙fYZ/f˙hc˙h\Y˙FYUX]b[˙GYei YbW/g˙]b_˙cb˙A ccX˙Y˙Z/f˙XYhU]˙g˙cZYUW/˙k YY_/g˙fYei]fYX˙fYUX]b[˙"˙5˙`
fYUX]b[˙g˙UfY˙Uj U]˙UV˙Y˙j]U˙A ccX˙Y˙UbX˙h\Y˙I BGK ˙@]VfUfm˙

- <cZ/z˙9"˙f&\$%(Ł˙@Ub[i U[Y˙XYj Y˙cda Ybh˙f]h\YX˙Ł˙6Y˙a cbh˙z˙7 5˙K UXgk cfh\˙7 Yb[U[Y˙@YUfb]b["˙
- <UfYm˙z˙H"˙f&\$%(Ł˙H\Y˙dgmW/c˙c[mcZ˙Ub[i U[Y˙: fca ˙XUhU˙hc˙h\Ycfmf(h\˙YX"Ł˙<cj Yž I ?˙
  DgmW/c˙c[m˙DfYgg"˙

F YW/ca a YbXYX˙F Ygci fW/g

- ; Ug_Y˙ž A "˙; "˙f&\$\$+Ł˙H\Y˙CI Z/cfX˙\UbXVcc_˙cZ dgmW/c˙]b[i]gh]Wg"˙CI Z/cfX˙ž I ?˙CI Z/cfX˙I b]j Yfg]hm
  DfYgg"
- : i fh\Yf˙fYW/ca a YbXYX˙fYgci fW/g˙UfY˙Uj U]˙UV˙Y˙cb˙A ccX˙Y"˙

7ci fgY˙9j U`i Uh]cb˙UbX˙8Yj Y`cda Ybh

Ghi XYbh˙Z/YYXVUW_˙]g˙[Uh\YfYX˙i g]b[˙I BGK f/g˙a m9 IdYf]YbW/˙gmghYa ˙]b˙UXX]h]cb˙hc˙cb!˙[c]b˙˙Z/YYXVUW_
h\fci [\ci h\h\Y˙Wci fgY˙UbX˙j]U]˙]b!WUgg˙UW/]j]h]Yg˙UbX˙UggYgga Ybhg"˙5˙Z/fa g˙cZ˙ghi XYbh˙Z/YYXVUW_˙k]˙VY
UW/YX˙i dcb˙hc˙]a dfcj Y˙h\Y˙ghi XYbh˙YUfb]b[˙YI dYf]YbW/˙]b˙h\Y˙Wci fgY˙UbX˙]hg˙Z i hi fY˙]h˙YfUh]cbg"˙

Gi Va]gg]cb ˙cZ˙5ggYgga Ybh˙HUg_g

Hi fb]h]b ˙Gi Va]gg]cb

5WUXYa]W< cbYghmUbX`U[ ]Uf]ga

D`U[ ]Uf]ga `]g`i g]b[ `h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[`h\Ya `Ug`mci f`ck b"`÷hWUb`hU_Y`a Ubm Zcfa gž`Zca `XY`]VYfUhY`W\YUh]b[ `hc`UWW]XYbhU`m`Wcdm]b[ `Zca `U`gci fWY`k ]h\ci h`UW_bck `YX[Ya YbH"

I B G K `[ fci dg`d`U[ ]Uf]ga `]bhc`h\Y`Zc``ck]b[`WUhY[cf]Yg.

7cdm]b[.``i g]b[ `h\Y`gUa Y`cf`j Yfm`g]a `Uf`k cfXg`hc`h\Y`cf][]bU``hYl h`cf`]XYU`k ]h\ci h`UW_bck `YX[]b[ `h\Y gci fWY`cf`i g]b[`ei ch\Uh]cb`a Uf_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[ Ygž`Ufh`UbX`XYg][b`dfc`YWhgž`Ug`k Y``Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf'g`]XYUg`cf`k cfXg`k]h\ci h`WfYX]h"

÷bUddfcdf]UhY`dUfUd\fUg]b[.``7\Ub[ ]b[`U`ZYk `k cfXg`UbX`d\fUgYg`k]`Y`a cgh`m`fYhU]b]b[`h\Y`cf][]bU` ghfi Wh fY`UbX#cf`dfc[ fYgg]cb`cZ]XYUg`cZh\Y`cf][]bU`žUbX`]bZcfa Uh]cb`k ]h\ci h`UW_bck `YX[Ya YbH"`H\]g`U`gc Udd`]Yg`]b`dfYgYbhUh]cbg`k \YfY`gca Y`dUfUd\fUgYg`Ubch\Yf'g`]XYUg`cf`k cfXg`k ]h\ci h`WfYX]h"UbX`hc d]W\]b[ `hc[Yh\Yf`ei ch Yg`UbX`dUfUd\fUgYg`]bhc`U`bYk `k \c`Yž`k ]h\ci h`Uddfcdf]UhY`fYZYfYbW]b["

7c``i g]cb.`k cf_]b[ `k ]h\`ch\Yfg`Vi h`dUgg]b[ `cZZ`h\Y`k cf_Ug`U`dYfgcb`g'`]bX]j]Xi U`k cf_"`7c``i g]cb`U`gc]bWi XYg`dfcj]X]b[ `mci f`k cf_`hc`Ubch\Yf`ghi XYbh`VYZcfY`h\Y`Xi Y`XUhYžcf`Zcf`h\Y`di fdcgY`cZh\Ya d`U[ ]Uf]g]b[ `UhUbm`h]a YždUm]b[ `Ubch\Yf`dYfgcb`hc`dYfZcfa `Ub`UWUXYa ]WhUg_žg]hh]b[ `cf`UWei ]f]b[ Ubch\Yf`dYfgcb'g`UWUXYa ]Wk cf_`UbX`Wcdm]b[ `]hž`cZZYf]b[ `hc`Wca d`YhY`Ubch\Yf`dYfgcb'g`k cf_`cf`gYY_]b[

- i bXYfghUbX mci f f][\hg UbX fYgdcbg]V]]h Yg Ug U gh XYbh Uh I BGK

- VY Uk UfY cZ d U[ ]Uf]ga žW cdmf][\h I BGK Gh XYbh 7cXY cZ 7cbXi Wh UbX 5WWdhUV Y I gY cZ I BGK =H F Ygci fW g Dc]W m

- VY Uk UfY cZ h Y gh UbXUfXg cZ VY\Uj]ci f Yl dYWhYX cZ Yj Yfmcb Y]b h Y I BGK W a a i b]hm

- c WUh Y gYfj]WWg UbX]bZcfa Uh cb UVci h I BGK UbX I BGK @ VfUfm

Gca Y cZ h YgY UfYUg k] VY Za]]Uf hc mci ž ch Yfg k] VY bYk ; U]b]b[U gc]X i bXYfghUbX]b[cZ U h Y fY UhYX UgdYW g cZ 9@G9 k] Y d mci a U_Y h Y a cgh cZ mci f ghiXYg Uh I BGK

<u>\hhd.##gi V YVW[i]XYg" VfUfm]i bgk "YXi "Ui #Y]gY#UVci hY]gY</u>

5WUXYa]W≠bZcfa Uh]cb

: cf`YggYbh]U`ghiXYbh`]bZcfa Uh]cb`fY`Uh]b[`hc.

- fYei Ygh`Zcf`Yl hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/