



ARTS2127

; fYUh'D`Umg

HYfa `C bY`#`&\$&%

7ci fgY`Cj Yfj]Yk

GHJZZ7cbHJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWjhcb	D\cbY
A Y[`A i a ZcfX	a "a i a ZcfX4 i bgk "YXi "Ui	h/W	@Yj Y`%F cVYfh K YVghYf`6`X[ž F cca `%%&	- ' ,) `(, *)

GWcc`7cbHJW`bZcfa Uhjcb

GWcc`cZhY`5fng`UbX`A YX]U

F cca ` ` %&ž`@Yj Y` ž F cVYfhK YVghYf`6i]X]b[`fj %(`

D\cbY. `f\$&Ł`- ' ,) `(,) *

9a Uj]. [gUa 4 i bgk "YXi "Ui](#)

K YVg]hY. [k k k "Ufng"i bgk "YXi "Ui #gUa](#)

H\Y`GWcc`cZhY`5fng`UbX`A YX]U`k ci `X`_Y`hc`F YgdYWZ `m5W_bck`YX[Y`hY`HfUX]hcbU`7i`gřcX]Ubgž`hY`6YXY[U`fP`Ybg]b[hcb`Wla`di`gŁž; UX][U`f7]mUbX`5fhi`8Yg][b`7 Ua`di`gYgŁ`UbX`hY`B [i`bbUk`U`dYcd`Y`fBi`ghfU]Ub`8YZYbWV : cfW`5WUXYa`m]b`7 UbVYffUŁcZhY`UbXg;k`YfY`YUWX`Wla`di`g`cZI`BGK`]g`cW]hYX"

7ci fgY'8YHJ]`g

7fYX]hDc]bHg '*`

Gi a a UfmicZ\hY'7ci fgY

K \Uha U_Yg'U'd'Um[fYUk'K \mUFY'gca Y'd'Umg'fY!ghU[YX'UbX'fY!]bhYfdFYH'X'VmYUW\ 'bYk '[YbYfUH]cb3 ; fYUhD'Umg'k]''XYj Y'cd'mci f'g_]`g`]b'fYUX]b['WJbcb]WJ'd'Umg'k f]H'Y'b'Zc'f''j] Y'dYfZc'fa UbW''H\Y'Wci fgY Wca V]bYg'YI YfW]gYg'j'b'']fYfUfmUbU'mg]g'cZk f]H'Y'b'd'Umg'W]dHg'k]h'U'Wcbg]XYfUH]cb'cZdYfZc'fa UbW' Wcbj Ybh]cbg'j]b'h'YUfY'dfcXi W]cb''H\fcI [\ 'Yggcbg'h'UhWca V]bY'fY\YUfgYX'fYUX]b[g'k]h'Yj]XYbW'Zca dfcXi W]cbg'z'mci 'k]''YI d'cfY'U'VfcUX'fUb[Y'cZ\][\ 'mFY[UfXYX'd'Umg'Zca 'Ub]ei]mihc'h'Y'dfYgYbhXUm' Mci 'k]''Wcbg]XYf'\ck 'h'YgY'd'Umg'k YfY'ZfghdYfZc'fa YX'UbX'h'Y]f'cb[c]b['g][b]Z]WJbW'Zc'f'Ui X]YbW'g hcXUm'

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

%" bhYfdFYh'U'd'UmhYI hUbX'dfYdUFY'Ub'YI W'fdhZc'f'U'fY\YUfgYX'fYUX]b["
&" bhj Ygh[UH' h'Y'fY'Uh]cbg\]d'cZU'd'UmhYI h'c'h'Y'\]ghc f]WJ'z'h'YUf]WJ'z'UbX']XYc'c[]WJ'WcbhYI h]b k \]W']hk Ug'WcbW'j] YX'z'ghU[YX'z'UbX'fYW'j] YX"
' " F YgYUfW'z'k f]h'UbX'U'_UVci hid'UmhYI hg'j]b'UW'W'fXUbW'k]h'U'bi a VYf'cZfY'Yj UbhgW'c'Uf'mUbX]bXi g'f'md'fUW'W'g"

HYUW\]b['GhfUH[]Yg'

GHUZZ'YX''YWi fYg'a cXY'k Umg'cZ]bhYfdFYh]b[z'k f]h]b['UbX'U_]b['UVci hid'UmhYI hg'UbX'h'Y]f'WcbhYI hg" Hi hc f]U'g'UbX'gYa]bUfg'Z]W'j]h'Y'gh' XYbh'YX''YUfb]b['UW'j]]h'Yg'gi W'Ug'fY\YUfgYX'fYUX]b[g'UbX'gY'Z XYj]gYX'YggUmg''7ci fgY'WcbhYbhUbX'UggYgga Ybh'Ug_g'Ugg]ghgh' XYbhg'hc'Vi]X'hc'k UfXg'Wca d'YI Yb[U[Ya Ybhg'k]h'd'UmhYI hg'UbX'h'Y]f'fY'Uh]cb'hc'ci f'gcW]U'k'cfX"

5ggYgga Ybh

GYY'A ccXY"

5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
DfYgYbhUj]cb#DYfZcfa UbWŸ	')ı	⊖`h.Y`YWŸi fY#gYa]bUfg`]b K YY_g'(ž) ž+' / ' ,	%ž'&ž'
9ggUmiD`Ub`	%)ı	&- # \$ #&\$&%%%) - `DA	%ž' &
D`UntŸI h5bU'mg]g'9ggUmi) \$ı	&+#\$(#&\$&\$'%%) - `DA	&ž'

5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`DfYgYbhUj]cb#DYfZcfa UbWŸ

GHUfhXUHŸ. `Bch5dd`]WUV`Y

@Yb[h. ' \$a]bg

8YHU]`g.

; fci d`UbX`⊖X]j]Xi U`

8i fUH]cb. " \$!a]bi hYg

DfYgYbhUj]cb#DYfZcfa UbWŸ

DYfWbHU[Y. ")ı ' Q&\$ı ' [fci d`dfYgYbhUj]cb/%ı ']bX]j]Xi U`W⊖bf]Vi h]cb`hc`dfYgYbhUj]cbQ

: YYXVUW_ j]U`@A G

5XX]h]cbU`XYHU]`g.

@Yb[h. "%!&\$!a]bi hY`dfYgYbhUj]cbž%\$!a]bi hY`E / `5

K Y][\h]b[.) \$ı

8i Y`XUHŸ. "K YY_ '(ž) ž+'cf', `Ug`Ugg][bYX

H5G? `BGFH I 7H€BG.

⊖`U`ga U` [fci d`cZ' !) `dYcd`Y`mci `k]`dfYdUfY`U`g\cfhfY\YUfgYX`fYUX]b[`cZU`gWbY`Zca `cbY`cZhY`gYh
d`UntŸI hg`Zcf`h]g`W⊖i fgYž`UbX`dfYgYbhUj]g:[fci d`fYUX]b[`]b`cbY`cZhY`gYa]bUfg]b`K`YY_g'(ž) ž+'cf
, "H\Y`F`Y\YUfgYX`F`YUX]b[`g\ci `X`UghVYŸk`YYb`%`UbX`&\$a]bg""H\YfY`k]`VY`U`%\$a]b`E / `5`X]gW`gg]cb
UZŸf`YUW`fYUX]b["

H\Y [fci d'F YUX]b['dfYgYbHh]cb['g'k cft\ '&\$i i 'UbX'mci f'Xj]Xi U'7 cbf]Vi h]cb'hc'h\Y'F Y\YUfgYX F YUX]b['j'g'k cft\ '%) i "

5'a UbXUhc'fmGY'Z'9j U'i Uh]cb'UbX'DYYF'F Yj]Yk 'Zcfa žUj U]UV'Y]b'h\Y'A ccX'Y'5ggYgga YbhgYW]cbžk]'VY i gYX'hc'Ugg]gh]b'h\Y'UggYgga YbhicZ'h\Y'Xj]Xi U'7 cbf]Vi h]cb'Wc'a dcbYbhUbX'a i ghVY'gi Va]h'X'hc'h\Y'7 cbj YbYf'ja a YX]UH'mUZ'Yf'h\Y'F YUX]b['cb'h\Y'XUmicZ'mci f'[fci d'g'dfYgYbHh]cb"

KagdYdągb e YaS'è XdfZWDWZWSdeW DWSV[Y SdWfa.

%'i bXYfU_Y VUg]WfYgYUfW]b'hc'h\Y'd'UmhYi h'mci f'[fci d'k]'VY []j]b['U'F YUX]b['cZ'Mci 'g\ci 'X'fYUX'U' cZ'h\Y'YggYbh]U'k YY'_mfYUX]b['g'UggcW]UH'X'k]h'h\Uhd'UmhYi h'9UWX']bXj]Xi U']b'h\Y' [fci d'g\ci 'X'U'gc fYUX'Uh'YUgh%'UXX]h]cbU'fY'Yj Ubhigci f'W'ž'UbX'g\UfY'mci f'Z]bX]b['g'k]h'mci f'[fci d''Mci f'[fci d'g\ci 'X Ya U] 'h\Y'7 cbj YbYf']hg']ghicZU']hg'a Ya VYfg 'UXX]h]cbU'fYUX]b['g'cb'h\Y'XUmicZ'h\Y'F YUX]b['dfYgYbHh]cb" 'H\YgY'V]V]c[fUd\W]]hg'k]'VY'd'UWX']b'h\Y'A ccX'Y'5ggYgga YbhgYW]cb"

&"dfYgYbhU'h\W]b]W]mZi YbhUbX'Yb[U[]b['fYUX]b['j"Y"cbY'h\UhXYa cbghfUhg'UhhYbh]cb'hc'X]W]cbž j'ci a YždUW'ž]bZ]W]cbžfi X]a YbhUfm[Ygh'fYžgdU]U'fY'Uh]cbgž]g[]b]Z]W]bhd'fcd'UbX'Wc'gh a Y']h'a gž'UbX UWc'f#g'dYW]U'hc'f'fY'Uh]cbg"

' "gY'YWh'UbX'f]ZfY'Yj Ubh'YX]h]U'd'UmhYi h'Yi W'fdh'h\Uhg]]hg'h\Y'bUhi fY'cZ'h\Y' [fci d'Xc]b['h\Y'fYUX]b[ž'UbX XYa cbghfUhg' h'fci [\ 'Vch'h\Y'F YUX]b['UbX'dcgh'F YUX]b['E' / '5'X]gW'gg]cb'U'h\ci [\ hž']b'h'fd'fY'U]h]cb'cZ h\UhYi W'fdh'UbX']hg'fY'Uh]cb'hc'h\Y'd'UmhYi h'Z'ca 'k \YbW']h'Wc'a Yg

("XYa cbghfUhg' h'fci [\ 'Vch'h\Y'F YUX]b['UbX'h\Y'Vf]YZdcgh'F YUX]b['X]gW'gg]cb'k \Uhh\Y' [fci d'h\ci [\ h k Ug' [fYU'h'UVci h'h\Y'gY'YW'X'Yi W'fdh'UbX'd'UmhYi hž'UbX'k \Uhh'UgdYW]g'cZ'h\Y'd'UmhYi h'a] [\ h'UddYU'hc'hc'XUmg'Ui X]YbW'g"

; fci dg'k]'VY'cf[Ub]nYX'UbX'Z]bU']nYX']b'h\Y'K YY'_%/ '&'gYa]bUfg": fca 'h\Y'YbX'cZK _&'h]g'bc'cb[Yf dcgg]V'Y'Z'f'mci 'hc'W]Ub[Y' [fci d''9UWX'cZ'h\Y'gY [fci dg'k]'W'ccgY'UbX'dfYgYbh'Ub'Yi W'fdh'Z'ca 'cbY'cZ h\Y'Z'ck]b['d'UmhYi hg.

%' 3YS_ W_ ` a` 'Vm5YgW'mi g'fF YUX]b['dfYgYbh'X']b'K _'(Ł
&" >ke[efcSfS'Vm5f]ghcd\UbYg'fF YUX]b['dfYgYbh'X']b'K _'(Ł
' " Da_ Wá S' V <g'W'VmG\U_YgdYUfY'fF YUX]b['dfYgYbh'X']b'K _') Ł
(" FZWDahWc' Vm5d\U'6Y\ b'fF YUX]b['dfYgYbh'X']b'K _'+Ł
)" I aki W]]Vm6W]bYf'fF YUX]b['dfYgYbh'X']b'K _', Ł

5'' [fci d'a Ya VYfg'UfY'YbWci fU[YX'hc'VY'U'fYUXYf]dYfZcfa Yf']b'h\Y'dfYgYbHh]cb""ž'mci '\Uj Y' [ccX' fYUgcb'Z'f'bchdUfh]W]dU]b['Ug'U'fYUXYf]dYfZcfa Yf'f]g] W'Ug'U'a YX]W] 'Wc'bX]h]cb'cfX]gUV]]mž'mci 'g\ci 'X d'fcj]XY'h\Y'fY'Yj Ubh'XcW'a Ybh'U]h]cb'hc'h\Y'7 ci fgY'7 cbj YbYf'VmK _&'UbX'g\Y'k]'bY['ch'UH'Ub U'h'fbU]h] Y'Ug'_k]h'mci ""ž'mci 'UfY'i bYi dYW'X'mi bUV'Y'hc'dUfh]W]dU]h'Ug'U'fYUXYf]dYfZcfa Yf']b'h\Y' F YUX]b['DfYgYbHh]cbž'UbX'mci '\Uj Y' [ccX'W]i gY'f'Y""]bYggž'i bYi dYW'X'W]g]g'Yh'Wž'mci 'g\ci 'X'Yh'mci f'7 cbj YbYf'_bck]a a YX]UH'm'UbX'a Um'Udd'm'Z'f'GdYW]U'7 cbg]XYfU]h]cb' [\h'g' #gh XYb'hi bgk 'YXi 'Ui #gdYW\]U'Wc'bg\]XYfU\]h\]cb'](#)ž'mci 'Z]]hc'dUfh]W]dU]h'Ug'U'fYUXYf]dYfZcfa Yf']b'mci f' [fci d'g'dfYgYbHh]cbž'UbX'mci 'Xc'bchd'fcj]XY' [ccX'W]i gY'k]h]b'&k YY_g'cZ'h\Y'dfYgYbHh]cb'XU]hž'mci k]'fYW']Y'U'Z]]a Uf'_Z'cf'Vch'h\Y'F Y\YUfgYX'F YUX]b['UbX'h\Y'Xj]Xi U'7 cbf]Vi h]cb'hc'h\Y'F Y\YUfgYX F YUX]b["

9UWX'a Ya VYf'cZ'h\Y' [fci d'g\ci 'X'Wc'bf]Vi h'Y'hc'h\Y'fc'Y'cZ'8fUa Uhi f[""h\U]gž'fYUXž'UbU'mY'UbX' fYgYUfW'h\Y'd'UmhYi h'VY]b['i gYXž'UbX'a U_Y'g] [b]Z]W]bhd'fcd'UbX'Wc'gh'Vi h]cbg'hc'h\Y']b'h'fd'fY'U]h]cb'UbX'i gY'cZ h'i h'g]b]b'h\Y'dYfZcfa UbW'5'fYUg'hc'fYgYUfW'a] [\h]b'Wi XY. 'd'Umh'f] [\hž']g'hc'f]W] 'Wc'b'Yi hž'Zcfa 'UbX'

8YHJ]g.

⊖Xj]Xi U`

*\$\$!k cfXg.....

Gh XYbHg`dfcXi W`Ub`YggUmd`Ub

DYfWbHJ[Y. %)

: YYXVUW_`j]U`@A G

5XX]hcbU`XYHJ]g.

K cfX @Yb[h. *\$\$`k cfXg

K Y][\h]b[.%) |

8i Y`XUhr. `Gi Va]hrc`Hi fb]hb`VYZcfY`a]Xb][\hcb`A cb`&- `A UfW`fK _`+Ł

H5G? `BGFH I 7H€B.

H\]g`UggYgga YbhUg_g`mci `hc`XYj]gY`U`g\cfh9ggUmd`Ub`cZ*\$\$`k cfXg`h`Uhk]`dfcj]XY`U`g`h`f`h]b[`dc]bh
UbX[]]XY`Zcf`mci f`D`Um`hI h5bU`mg]g`YggUm`f5ggYgga Ybh` Ł`Mci `g\ci `X`VY[]b`fYgYUfW]b[`mci f`9ggUm
D`Ub`UbX`W`bgi `hk]h`mci f`7cbj YbYf`fj]U`Yf`C Z]W`<ci fg`]Y""]b`dYfgcb`cf`cb`]bYŁZca `K _`&`cbk UfXg"

Mci f`9ggUmd`Ub`g\ci `X`W`b`h]b`h`Y`Zc`ck]b[`) `dUfhg`UbX`]b`h`Y`Zc`ck]b[`cfXYf.

%`H]hY`UbX`Ui h`cf`cZ`h`Y`d`Um`hI h`mci `k]`UbU`mgY/

&" 5`]ghcZ`h`Y`&`cf`a`cfY`h`c`d]Wg`mci `Uj`Y`W`cg`Yb`h`c`Yb[U[Y`k]h`""H`Y`h`c`d]Wg`UfY.

W`fcj` \` 5b[XYb[`g`h`X`Y`j [\` c` W] b[`W`cg` W]i ` a`cfY

W`h`fU`fgcWU`UbX`Ufhgh]W`W`b`h`I`h

UfW]h`W]fY`cZ`h`Y`Uggi`a`YX`h`Y`U`h`Y`Vi]X]b[`cf`d`Um]b[`gdUWY

[YbfY

d`ch

W`X`U`f`U`W`Y`fg`c`f`d`Y`fg`cb`UY

W`X`U`f`U`W`Y`fg`c`f`d`Y`fg`cb`UY

W`X`U`f`U`W`Y`fg`c`f`d`Y`fg`cb`UY

k c f X ' W e i b h Q

5 g g Y g g a Y b h 7 f] h f] U .

K a g i [^ T W S e e W e e W a ` ,

% " h \ Y ' h \ c i [\ h z ' b Y g g ' U b X ' a U b U [Y U V]] h m c Z h \ Y ' W c g Y b ' f Y g Y U f W \ ' e i Y g h j c b g ' U b X # c f '] g g i Y f g t z ' U b X ' m c i f U k U f Y b Y g g ' c Z h \ Y ' f ' g [[b] z] W U b W ' Z c f ' c i f ' i b X Y f g h U b X] b [' c Z h \ Y ' g Y ' Y W \ X ' d ' U m h \ I h f (\$ i _ E / & " h \ Y ' f Y ' Y j U b W ' c Z h \ Y ' g Y ' Y W \ X ' h c d] W U f Y U g ' h c ' h \ Y ' e i Y g h j c b g z '] g g i Y g ' U b X ' d ' U m h \ I h f & \$ i _ E / ' " m c i f ' U V]] h m i t c ' g Y ' Y W \ z X Y g W] V Y ' U b X ' U b U ' m g Y ' h \ Y ' f Y ' Y j U b W ' c Z U ' f Y U X] b [' c f ' g c i f W ' a U h f] U ' f & \$ i _ E / (" m c i f ' U V]] h m i t c ' d ' U b ' h \ Y ' h j a] b [' c Z m c i f ' f Y g Y U f W \ ' U b X ' k f] h b [' d f c W \ g g Y g ' U b X ' h c ' d f Y g Y b h m c i f ' g c i f W \ g] b ' U W \ c f X U b W ' k] h ' m c i f ' d f Y Z f f Y X ' g h m Y ' [i] X Y ' f & \$ i _ E /) " [Y b Y f] W U g d Y W g ' c Z g V X c ' U f m i k f] h b ['] Y " ' k f] h b [' g h m Y z W] h j c b ' d f U W] W z g Y b h Y b W ' U b X ' d U f U [f U d \ g h f i W h f Y z d f Y g Y b h U h j c b ' Y h W ' f & \$ i _ E "

G i V a] g g] c b .

M c i ' a i g h g i V a] h m c i f ' k c f _] b ' % & ! d c] b h Z c b h z X c i V Y ' g d U W \ X ' U b X ' d U [] b U h \ X ' h c ' H i f b] h b ' V Y Z c f Y ' a] X b [\ h c b A c b X U m i & - ' A U f W " ' 9 g g U m D ' U b g ' g i V a] h \ X ' c b ' h j a Y ' k] ' ' V Y ' f Y h f b Y X ' V m K Y X " + ' 5 d f] "

5 ' k U m g ' _ Y Y d ' U b ' Y ' Y W \ f c b] W U b X ' \ U f X ' W \ c d m M C I F G 9 @ . "

: Y Y X V U W _ . ' F i V f] W] b X] W U h b [' ' Y j Y ' ' c Z d Y f Z c f a U b W ' U [U] b g h Y U W \ ' U g g Y g g a Y b h W] h f] U z k f] h Y b ' Z c f a U h j Y Z Y X V U W _ z U b X ' d Y f W \ b h U [Y ' [f U X Y "

H i f b] h b ' g Y h j b [. ' .

K cfX'@Yb[h. ' &ž) \$\$'k cfXg

K Y][\h]b[.) \$i

8i Y'XUHy. 'Gi Va]hrc 'Hi fb]h]b'VYZcfY'a]Xb][\h'cb'K YXbYgXUm&, '5df`

H5G? 'BGFH I 7H€B.

Mci 'a i ghVca d'YHY'U'gY'ZXYj]gYX'XfUa Uh f[]WU'UbU'mg]g'fW' &ž) \$\$'k cfXgŁcZU'd'UmhYI hUXXfYggYX'Xi f]b[hY'Vci fgY']b'K _g'&!%\$']bW' g]j Y''H\Y'gY'YWW'X'hYI ha i ghVY'X]ZYfYbhZca 'hY'cbY'mci 'fYgYUfW'YX'Zcf hY'F Y\YUfgYX'F YUX]b["': cf'h]g'UbU'mg]g'mci 'a i ghž'Zfghnž'Vcbg]XYf'gca Y'UgdYW'cZ'hY'fY'Uh'cbg\]d VYh'k YYb'hY'hYI hUbX'\ck ']hk cf_g']b'dYfZcfa UbW''5bX'gYVcbX'mž'mci 'a i ghXYj]gY'mci f'ck b'YggUm ei Ygh]cb" Mci f'YggUmik cfX'Vci bhia i ghVY'bc'Ygg'h'Ub' &ž&) \$'UbX'bc'a cfY'h'Ub' &ž+) \$'k cfXg'UbX'mci g\ci 'X'U]a 'hc'gi Va]h'Ub'Ugg][ba Ybh'hUh]g'Ug'WcgY'hc' &ž) \$\$'k cfXg'Ug'dcgg]V'Y''

Mci 'k]''bYXX'hc'g\UfY'mci f'dfcdcgYX'fYgYUfW'hc'd]W]b'hY'K YY_+'gYa]bUf'k \]W']g'k \Yb'mci 'gi Va]h mci f'9ggUmD'Ub'f5ggYgga Ybh&f%) i Ł''žmci 'UfY']bh'fYghYX']b'k f]h]b['UVci hU'd'UmhYI hk Y'UXXfYgg']b K _g'+ž, ž- 'cf'%'\$'mci 'k]''bYXX'hc'fYUX'hUh'hYI hUbX'hY'gYh'fYUX]b[g'U\YUX'cZ'hY'K _+'gYa]bUf'': cf'h]g gYa]bUf'ž'd'YUgY'Vf]b['Ub'Y!VcbmicZmci f'9ggUmD'Ub'hc'WUggž

K \Yb'Z]bU']n]b['mci f'YggUmž'mci 'a i ghXc'hY'Zc'ck]b['' 'h]b[g.

%' Yb[U[Y'k]h' &'cf'a cfY'cZ'hY'Zc'ck]b[. '

W'hi fU'fbcW]U'UbX'Ufh]gh]V'Vcb'hYI h

]bZi YbVW'mci f'[fUX]b["

4]g'VYhYf'hUhmci f'UbU'mg]g[cYg'bUffck 'UbX'XYd'fUhYf'hUb'VfcUX'UbX'g\U`ck ""Mci 'g\ci 'X'VY

Wcbgi`h`

[\hfdg.#gji.XYbhi.bgk."YXi."Ui.#cctbcH!VIV`c\[.fUd\mtcf!cl.ZcFX!fYZfYbWb\[!gmghYa](#)

<ck Yj Yfz`Ub`]bWfYUg]b[`mdcdi `Uf`UbX`Yei U`mUWWdHUV`Y`fYZfYbWb[`gmghYa `]g`h`Y`'`b!HYI H`c`f`< Ufj UfX` fYZfYbWb[`gmghYa ""GYY.

[\hfdg.#gji.XYbhi.bgk."YXi."Ui.#Ufj.UfX!fYZfYbWb\[](#)

I Z[UZWwWdekefW_ kag UZaaeW fZWYa`VW dg`W[e fa TWUa`e[efW f`

FZWG@EI >[Tdsdk aXXde _ S` k eWh[UW` fa efgVW fe eWw] [Y ZWb i [fZ fZWdW`eSke S` V efgVke e] [eZ E WW XadWj S_ b`W [\hfdg.#gi.VYWf\[i\]XYg"IVfUfmi.bgk."YXi."Ui.#`\]gY#f\]hb\[](#)

;Xkag i ag`V`f] WXgdZWdZWb i [fZ kagdefgV[W`et S` V kagdW`eSke [` bSd[Ug`Sd b`WSeWUa` eg`f FZW >Wsd [Y 5W fdWe eWh[UW` a` [\hfd.#k k k"Wi.bgk."YXi."Ui.#](#)

Gi Va]gg]cb`bchYg.`GYY`A ccX`Y

Hi fb]hb`gYH]b[. H\]g`Ugg][ba Ybh]g`gi Va]H`X`h`fci [\`Hi fb]hb`UbX`ghi XYbtg`Xc`bchgYY`Hi fb]hb`g]a]Uf]mfYdcfng"

5 HbXUbW F Yei JfYa Ybhg

5 HbXUbW Uhc b]bY @YWi fYg UbX cb! WJa di g'GYa]bUfg]g'a UbXUhc fm]b h]g'Wci fgY Ug hYmUFY X]fYWhm UggcW]UHX'k]h'7 ci fgY @YUfb]b['C i hWca Yg'' ZU'ghi XYbhZU]g'hc UHbX'GYa]bUf'WUggYg]b'K YY_g'&! , k]h'ci h[ccX'W]i gY'UbX#f'ZU]g'hc UHbX'YI hfU!W ff]W 'Uf[fci d'a YYh]b[g'Zcf'hY'F Y\YUfgYX'F YUX]b['h]g k]''ja dUWhcb'hY]f'a Uf_ Zcf'hY' #X]j]Xi U''7 cbhf]Vi h]cb'hc'hY'F Y\YUfgYX'F YUX]b['f%) i 'E'' ZU'ghi XYbh ZU]g'hc UHbX'k]h'ci h[ccX'W]i gY'hY'GYa]bUf'WUgg]b'k \]W'hY]f[fci d']g'dfYgYbh]b['hY]f'F Y\YUfgYX'F YUX]b['Zcf'UggYgga Ybh'h]g'k]''VY'Wci bhYX'Ug'U'bcbl'gi Va]gg]cb'cZ5ggYgga Ybh%"

#]g'hY'fYgdcbg]V]]mcZYUW'ghi XYbh'ca U_Y'gi fY'hYmg][b'hY'7'Ugg'F c''hUh]g'X]ghf]Vi hYX']b'YUWk YY_ Zca 'K _' %cbk UfXg'' H\]g'F c'']g'X]ghf]Vi hYX'YUf]m]b'YUWk '&\f'WUgg'' ZU'ghi XYbh]g'i bUVY'hc'UHbX'U'WUggZ'hYmg\ci 'X']bZca 'hY'7'cbj YbcfZdfYZYfUV'm]b'UXj UbW'cZ'hY'WUgg''K \YfY'fY'Y] Ubh'gi ddcf]b['XcW'a Ybh]h]cb'g\ci 'X'VY'dfcj]XYX'Ug'gccb'Ug'dcgg]V'Y''8 i f]b['hY'F Y\YUfgYX'F YUX]b[dYf]cX'fK _g'&'hc', l'Z'ghi XYbh]g'g\ci 'X'U'gc']bZca 'hY'ghi XYbh: UW]hUc'ff]g'k]b'hY]f[fci d''

7 ci fgY'GWXYXi `Y

[J \]yk 'WUgg'hja YhUVY](#)

H]ja YhUVY'

8UH	HmdY	7cbhYbh
K YY_ '% %) : YVfi Ufm! %- : YVfi Ufm	@YWi fY GYa]bUf	Hi Yg'(!*da ž%* : YVž'cb]bY #hfcXi W]b['hY'Wci fgYžUg'k Y''Ug'bc]cbg'cZ'hY [fYUhd'Um'' K YX'&!(da ž'6'cW\ci gY'; % 5f]ghc'hY]h]hYcfmcZU' [fYUhd'Um' fDcYh]W]f'
K YY_ '&.&: YVfi Ufm! *& : YVfi Ufm	@YWi fY GYa]bUf	Hi Yg'(!*da ž&' : YVž'cb]bY 3YS_ W_ `a` Vm5YgW]mi g.'5' [fYUhi; fYY_ 'hfU[YXm' K YX'&!(da ž&' : YVž'6'cW\ci gY'; % Gh X]m]b['d'cž'UW]cb'UbX' [YbfY''
K YY_ ' . '%A UfW' !') A UfW	@YWi fY GYa]bUf	K YX'(!*da ž&'A UfWž'cb]bY >ke[efcSfS'Vm5f]ghcd\UbYg.'5' [fYUhi; fYY_ 'Wca YXm' K YX'&!(da ž' 'A UfWž'6'cW\ci gY'; % Gh X]m]b['d'Um]g']b'Wcb'hYI h'UbW]Ybh; fYY_ 'hYUfY UbX'gcW]Ym''
K YY_ '(. ; 'A UfW' !' %& A UfW	@YWi fY	Hi Yg'(!*da ž- 'A UfWž'cb]bY Da_ Wá S` V <g fW'VmG\U_YgdYUfY, '5' [fYUhi F YbU]ggUbW' hfU[YXm''

	GYa]bUf	K YX'&! (da ž%\$'A UfWž6`cW_\\ci gY'; % F YbU]ggUbW'ghU[]b[žghU[Y`X]fYW]cbg`UbX X]U`c[i Y" 5ggYgga Ybh% F Y\YUfgYX`F YUX]b[g`%/`& fBYS_ W_`a` UbX`>ke[efcSfSt
K YY_) . % 'A UfW !`% A UfW	@YWi fy	Hi Yg`(!*da ž%*'A UfWžcb`]bY F ZWDahWdadFZW4S` [eZiV 5 ShS↑Wde Vmi6Y\b. `U [fYUhf YghcfU]cb`Wca YXmi .
	GYa]bUf	K YX'&! (da ž%+'A UfWž6`cW_\\ci gY'; % F YghcfU]cb`h`YUhfYžghU[Y`X]fYW]cbg`UbX VXUfUWYf]nU]cb" 5ggYgga Ybh% F Y\YUfgYX`F YUX]b[` ` fDa_ Wā S` V <g↑WfL
K YY_*. `&&'A UfW !`&` A UfW	5ggYgga Ybh	HYfa`ZYI`k YY_""Bc`YWi fy`cf`gYa]bUf`h`]g`k YY_` DfydUfU]cb`cZ5ggYgga Ybh&!`9ggUmD`Ub`f%)`l`Ł Xi Y`VYžcfY`a`]Xb][`hcb`A`cbXUm&`-`A`UfW`fK`_`+`Ł`h Hi fb]h]b" .
K YY_+. `&-`A UfW !`& 5df]`	@YWi fy	Hi Yg`(!*da ž` ` \$'A UfWžcb`]bY l`akl WU]`Vmi6ØWbYf.`YUfm%-`7`XcW`XfUa`U @4,`3eeWēe_`W`f`\$`Ž`7eeSk`B`S``/#` `fivgW kVefWdVSk`TWadW_`[V`[YZfa` `?`a`VSk`\$`+`?`SdJZ /l`]`)`fifa`Fgd`[f]`ž
	GYa]bUf	K YX'&! (da ž` ` %'A UfWž6`cW_\\ci gY'; % HfYUha`YbhicZ`h`Y`UW`c`f`#`W`UfUWY`f]g`VcXmi]b`fy`U]cb h`c`]h]g`Ybj`]fcb`a`Yb]g" 5ggYgga Ybh% F Y\YUfgYX`F YUX]b[(`fF ZWDahWdŁ
K YY_ . .) `5df]`!`-`5df]`	@YWi fy	Hi Yg`&! (da ž`*`5df]`žcb`]bY l`S[f]`Y`Xd9`a`Va`f`Vmi6YW_Y`h`a`]X`&\$`7`5Vgi`fx]ga`" .
	GYa]bUf	K YX'&! (da ž`+`5df]`ž6`cW_\\ci gY'; % 9b[U[Ya`Ybhk`]h`g`lmY`UbX`dcghk`Uf`W`h`fy`" 5ggYgga Ybh% F Y\YUfgYX`F YUX]b[(`) `fl`akl WU]`Ł
K YY_- . %&'5df]`!`%` 5df]`	@YWi fy	Hi Yg`&! (da ž%`5df]`žcb`]bY

		6WUW VW fe aXFZW7g` gUZ 3V_ [d^Vm? i c'DUc ? i b. "UH'&\$7 'K cfX'XfUa U" ; i Ygh`YWh fY`Vm8f`K U\ ; i Ub`@ja "
	GYa]bUf	Hi Yg`(!*da ž% '5df]žcb`]bY < c`]gh]Wd`UmtYI hUbU`mg]g`UbX`WUbc]nUh]cb
K YY_`%\$.`%- '5df]`!`&' 5df]`	@YWh fY	Hi Yg`(!*da ž&\$'5df]žcb`]bY FZW6 dahWde I [XVmiDi fW``. 'U`&% Ya]b]g'

Asdas (540)g t 3 fe Yfci fb] p`Vg ; fY'a] b] 'c'

GYa]bUf

F Ygci fWg

Gi Va]gg]cb 'cZ5ggYgga YbhiHUg_g

Hi fb]h]b 'Gi Va]gg]cb

Ẓmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UHYa dh]b['hc'gi Va]hmc i f'Ugg][ba YbhiH'fci [\ 'Hi fb]h]bž'd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'- ' ,) " ' ' %cf'Ya U] 'H'Ya 'cb'YI HYfbU'HY'hgi ddcfh4 i bgk "YXi "Ui "'Gi ddcfh
\ci fg'UfY' , .\$\$Ua '—%\$. \$\$da 'cb'k YY_XUmg'UbX'-. .\$\$Ua '—) . \$\$da 'cb'k YY_YbXg'fI *) 'XUmg'U'mYUfI" Ẓmci
UfY'i bUV'Y'hc'gi Va]hmc i f'Ugg][ba YbhiXi Y'hc'U'Zi 'hk]H'Hi fb]h]b'mci 'a UmiUdd'm'Zc'f'Ub'YI HYbg]cbž'Vi hmc i
a i ghfYH]b'mci f'h]W'Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb['k]H'Ubmich'Yf'fY'Yj UbhXcW a Yb'gk'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd'j]W]h]cb" Ẓmci 'Ya U] '9I HYfbU'Gi ddcfhmc i 'k]`

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`_`Y`a` `U`b`m`
Z`c`f`a` g`z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f`]Y`g.

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V']hYg'Ug'U'gh XYbhUhl BGK
-

5 WUXYa]WbZcfa Uh]cb

: cfYggYbh]U`gh XYbh]bZcfa Uh]cb fY`Uh]b[`rc.

- fYei Yghg`Zcf`YI H`bg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I BGK `<YU`h`UbX`GUZY`mdc`]WYg/
- YI Ua]bUh]cb`dfcW`Xi fYg/
- gdYW]U`W`bg]XYfUh]cb`]b`hY`Yj YbhcZ]`bYgg`cf`a]gUXj Ybh fY/
- gh XYbhYei]mUbX`X]gUV`]m/
- UbX`c`hYf`YggYbh]U`UWUXYa]W]bZcfa Uh]cbz`gYY

[\fhdg.#k k k "Ufng"i bgk "YXi "Ui #W ffYbhgh XYbh\]UWUXYa \]W\]bZcfa Uh\]cb#dfchW`g`\[i \]XY`\]bYg#](#)

⇒ U[Y`7fYX]h

I BGK `H\YUfY`UbX`DYfZcfa UbW

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7cXY.`\$\$\$- ;

5W_bck `YX[Ya YbhcZ7ci bhfm

K Y`UW_bck `YX[Y`hY`6YXY[U`dYcd`Y`k `c`UfY`hY`fUX]h]cbU`W`ghcX]Ubg`cZ`hY`UbXg`cb`k` \]W`I BGK
? Ybg]b[`rcb`W]a`di`g`]g`cW]hYX"