

; GA!Gi ddcfh'i `"'8cVfY[c'DUghYfnU'%\$&#) ž' %! (%* '?fU_Œk a cV]`Y'Ž(, '*\$, %\$+()) ž'B=D', %' ''), *\$- 'F9; CB.'%, %\$, %' '(k k k "[ga!gi ddcfh"bYh

9`Wca gcZh'D\cbY'6fYU Yf

 $FYWcj\ Yf'\ DUggk\ cfX!\ DfchYWhYX'6`UW_6Yffm'UbX'5dd`Y'6UW_i\ dg'$

9 We a gc Zh D\cbY '6fYU_Yf 'YbUV 'Yg 'ZcfYbg]WUWW gg 'hc 'dUggk cfX! dfchYWYX 'VUW_i dg 'Zcf 'ga Ufhd\cbYg 'UbX 'dcfhUV 'Y 'XYj]W g 'VUgYX cb 'F =A '6 'UW_6Yffm'UbX '5dd 'Y ']CG 'd 'UhZcfa g" 'H\Y' dUggk cfX' fYWej Yfm'hcc 'gi ddcfhg 'U` '6 'UW_VYffm'ga Ufhd\cbYg 'Ug'k Y` 'Ug'5dd 'Y XYj]W g 'fi bb]b[']CG ']bWi X]b[']D\cbYz ']DUX 'UbX ']DcX 'Hci W 'XYj]W g 'cZ'U` '[YbYfUh]cbg 'fY 'YUgYX 'hc 'XUhYz ']bWi X]b['h\Y']D\cbY'* D' i g 'UbX ']CG', "

FYhf]Yj Y'7`ci X'6UWi dg. '5dd`Y']7`ci X'UbX'K]bXck g'@j Y'

7`ci X`UWei]g]nJcb`]g`Ub`U`hYfbUhJj Y`k UmcZ`fYhf]Yj]b[`]bZcfa UhJcb`ghcfYX`]b`a cV]`Y`VUW_i dg'dfcXi WYX`Vm5dd`Y`]CGz`UbX`h\Y`cb`m a Yh\cX`hc`Yl d`cfY`K]bXck g`D\cbY`, `XYj]WYg"'9`Wta gcZh`D\cbY`6fYU_Yf`WUb`fYhf]Yj Y`]bZcfa UhJcb`Zfca '5dd`Y`]7`ci X`UbX K]bXck g`@j Y*`gYfj]WYg'dfcj]XYX`h\Uh`cf][]bU``i gYf`WYXYbhJU`g`Zcf`h\Uh`uWti bh'UfY`_bck b"

Cb`]bY`VUW_i dg`WUb`VY`UWei]fYX`VmZcfYbg]WgdYWJU`]ghg`k]h\ci h\Uj]b[`h\Y`cf][]bU``]CG`cf`K]bXckg`, `D\cbY`XYj]WY`]b`\UbXg" 5```h\UhBg`bYYXYX`hc`UWWYgg`cb`]bY`VUW_i dg`ghcfYX`]b`h\Y`Wci X`gYfj]WY`UfY`h\Y`cf][]bU``i gYfBg`WYXYbh]U`g`]bWi X]b[`5dd`Y`=8`cf@j`Y`=8`UWWca dUb]YX`k]h\`h\Y`WcffYgdcbX]b[`dUggk cfX"

Bc'\]XXYb'ZYYg.'mci'[Yh'i b`]a]hYX'YI hfUWh]cbg'k]h\ci h'dUm]b['Ubm_]bX'cZ'gi VgWf]dh]cbg'cf'UXX]h]cbU`'ZYYg°

D`YUgY bchY'h\Uh'U'bch]ZJWUh]cb'a YggU[Y'a][\h'VY'gYbh'hc'h\Y'ck bYf'cZ'h\Y'5dd'Y']7`ci X`UWMci bh'k\Y'[]j Yb']7`ci X`VUW_i d
]g`UWMYggYX`Zfca 'U'X]ZZYfYbh'Wca di hYf'Uh'h\Y'Z]fgh'h]a Y'''5dd'Y'hi fbg'h\Y'bch]ZJWUh]cbg'cb'UbX'cZZ'Zfca 'h]a Y'hc'h]a Y'ff][\h'bck
h\YfY'UfY'bc'bch]ZJWUh]cbgŁ"

Hkc!ZUWhcf'Uih\Ybh]WUh]cb'

 $H\Y': cfYbg]WYX]h]cb'cZ'9`Wta gcZh'D\cbY'6fYU_Yf'YbUV`Yg'cj Yf! h\Y! U]f'UWti]g]h]cb'cZ']7`ci X`XUhU'k]h\ci h`\Uj]b['h\Y'cf][]bU`5dd`Y'=8 'UbX'dUggk cfX''DUggk cfX! ZfYY'UWWYgg'hc']7`ci X`XUhU']g'a UXY'dcgg]V`Y'j]U'h\Y'i gY'cZ'U'V]bUfm'Ui h\Ybh]WUh]cb'hc_Yb YI hfUWYX'Zfca 'h\Y'i gYfBq'Wta di hYf"$

9'Wta gcZhD\cbY'6fYU_Yf'gi ddcfhg'UWwti bhg'k]h\'5dd'Yfig'hk c! ZJWrcf'Ui h\Ybh|WWh|cb"'BchY'h\Uh'c`XYf'j Yfg]cbg'cZ'9'Wta gcZhD\cbY'6fYU_Yf'X]X'bch'gi ddcfh'gYWtbXUfmUi h\Ybh|WWh|cb'UbX'k ci `X'ZU]''Yj Yb']Z'h\Y'gYWtbX'Ui h\Ybh]WWh|cb'ZJWrcf'k YfYUWWrgg]V'Y"'5WWrgg'hc'h\Y'gYWtbX'Ui h\Ybh]WWh|cb'ZJWrcf'gi W\'Ug'U'hfi ghYX'XYj]Wr'cf'fYWtj Yfm_Ym]g'fYei]fYX"'CbW'h\Y gYWtbXUfmUi h\Ybh]WWh]cb'ghYd']g'Wta d'YhYXz'D\cbY'DUggk cfX'6fYU_Yf'k]`''gUj Y'U'V]bUfm'Ui h\Ybh]WWh]cb'hc_Yb'hc'VmdUgg a Ubi U''Ui h\Ybh]WWh]cb'Zcf'gi VgYei Ybh'gYgg]cbg"

BchY. 'Uh'h\]g'h]a Yž'A]WcgcZh'@j Y'`UWVci bhg'h\ Uh'i gY'hk c! ZUWVcf'Ui h\ Ybh]WUh]cb 'UfY'bch'gi ddcfhYX''

5VWVgg]b[']7ci X'k]h\ci h'@c[]b'UbX'DUggk cfX

=Z'h\Y`i gYftgy`5dd`Y`=8`UbX`dUggk cfX`UfY`bch`Uj U]`UV`Yž`9`Wca gcZhD\cbY`6fYU_Yf`Wb`i gY`U`V]bUfm`Ui h\Ybh]\Wbh]cb`hc_Yb`\WYYUhYX Vm5dd`Y`]7`ci X`7cbhfc``DUbY`]b`cfXYf`hc``c[]b`hc`]7`ci X`UbX`fYhf]Yj Y`]bZcfa Uh]cb"`H\Y'i gY`cZ'Ui h\Ybh]\Wbh]cb`hc_Ybg`U``ck g VmdUgg]b[`hk c! ZJV\rcf`Ui h\Ybh]\Wbh]cb`Yj Yb`]Z'bc`UV\wYgg'hc`h\Y`gY\wb\XUfm`Ui h\Ybh]\Wbh]cb`ZJV\rcf`]g`Uj`UJ``UV`Y"

 $H \ Y: cfYbg]WYX]h]cb'cZ'9`Wea gcZh'D\cbY'6fYU_Yf'Wea Yg'k]h\ 'h\ Y'UV]`]hm'bc'UWei]fY'UbX'i gY'Ui h\ Ybh]WUh]cb'bc_Ybg'Zfca K]bXck g'UbX'A UWCG'L 'Wea di hYfgž'\UfX'Xf]j Yg'cf'ZcfYbg]WX]g_']a U[Yg''5i h\ Ybh]WUh]cb'bc_Ybg'Zcf'U``i gYfg'cZ'h\ Uh'Wea di hYf WUb'VY'YI hfUWhYXž']bWi X]b['Xca U]b'i gYfg'fdfcj]X]b['h\ Uh'h\ Y]f'gmghYa ``c[cb'dUggk cfXg'UfY'_bck b\{''H\ Y'bcc`g'UfY'Uj U]`UV'Y']b Vch\ 'K]bXck g'UbX'A UWj Yfg]cbg'cZ'h\ Y'bcc`''$

5i h\Ybh]\Wh]cb`hc_Ybg`UfY`cVhJ]bYX`Zfca `h\Y`gi gdYWMg`Wca di hYf`cb`k\]\W.`]7`ci X`7cbhfc``DUbY``]g`]bghU``YX"'=b`cfXYf`Zcf`h\Y hc_Yb`hc`VY`WfYUhYXž'h\Y`i gYf`a i gh`\Uj Y`VYYb``c[[YX`]b`hc`]7`ci X`7cbhfc``DUbY``cb`h\Uh`D7`Uh`h\Y`h]a Y`cZ`UWei]g]h]cb"
5i h\Ybh]\Wb]\cb`hc_Ybg`WUb`VY`YI hfUWMYX`Zfca ``]j Y`gmghYa g`fU`fi bb]b[`A UWCG`cf`K]bXck g`D7\cf`fYhf]Yj YX`Zfca `i gYfgĐ\UfX Xf]j Yg`cf`ZcfYbg]WX]g_`]a U[Yg"

]7`ci X`7cbhfc``DUbY``]g`Ub`]bhY[fU``dUfh`cZA UWCG`gmghYa gž`UbX`]bghU``g`gYdUfUhY`m`cb`K]bXck g`D7g"`A cghi gYfg`k]```ghUm
`c[[YX`]b`hc`h\Y]f`]7`ci X`7cbhfc``DUbY``Zcf`gmb\V]b['WcbhUWgz`dUggk cfXg`f]]7`ci X`?YmW\U]b\Ez`bchYgz`d\chc`ghfYUa 'UbX`ch\Yf
hmdYg`cZXUhU`k]h\ci h`fY!hmd]b[`h\Y]f`dUggk cfX"`5```h\]g`a YUbg`h\Uh`h\Y`dfcVUV]`]hm`cZ`cVhU]b]b[`Ui h\Ybh]\Wuh]cb`hc_Ybg`Zfca 'D7g
k]h\`]7`ci X`7cbhfc``DUbY``]bghU``YX`]g`\][\"

=b`UXX]h]cb`hc`]7`ci X`VUW_i dgž'9`Wta gcZh`D\cbY`6fYU_Yf`WUb`Xck b`cUX`Z]Yg`ghcfYX`]b`h\Y`i gYf@j`]7`ci X`UWWti bh`gi W\`Ug XcW a Ybhg`cf`gdfYUXg\YYhgž'Udd`]Wuh]cb!gdYWjZ]WXUhUž'K\Uhg5dd`VUW_i dgž'%DUggk cfX`XUhUVUgYž'DUggVcc_`XUhU`YhW'BchY`h\Uhh\YfY`]g`bc`Ya U]``bch]Z]WUh]cb`gYbh`Vm5dd`Y`k\Yb`Xck b`cUX]b[`Z]Yg`Zfca `]7`ci X"`6ch\`~c`X~`]7`ci X`UWWti bhg`UbX`]7`ci X`8f]j Y UWWti bhg`UfY`gi ddcfhYX"

BchY. 'cb'K]bXck gžXck b`cUX]b['Z]'Yg'Zfca ']7`ci X'8f]j Y'fYei]fYg']7`ci X'7cbhfc``DUbY``hc'VY`]bghU``YX'''Cb'A UWCG'Lž']7`ci X 7cbhfc``DUbY``]g'U'dUfh'cZ'h\Y'cdYfUh]b['gmghYa ž'Vi h`]7`ci X'8f]j Y'gi ddcfh']g'Uj U]'UV`Y'cb'CG'L'j Yfg]cb'%\$"%\$'fMcgYa]hYE'cb`mž UbX`XcYg'bch'k cf_'k]h\ '%\$"%\$"('fUbX'%\$"%\$") 'VYhUE'mYh''

I b`cW_'5dd`Y'UbX'6`UW_6Yffm6UW_i dg'

H\Y'bYk'hcc``fYWtj Yfg'h\Y'cf][]bU``d'U]b!hYl h'dUggk cfXg'dfchYWh]b['YbWfmdhYX'VUW_i dg'Zcf'5dd'Y'UbX'6`UW_6YffmXYj]Wfg ffi bb]b['6`UW_6Yffm+'CG'cf'YUf']Yft"'H\Y'VUW_i dg'WtbhJ]b'UXXfYgg'Vcc_gz'WU```c[gz'GA G'UfW,]j Ygz'WU`YbXUfg'UbX'ch\Yf cf[Ub]nYf'XUhJz'WJa YfU'gbUdg\chz'j c]Wf'a U]`'UbX'Ya U]`'Uwti bh'gYh]b[gz'Udd`]WJh]cbgz'K YV'Vfck g]b['\]ghcfm'UbX'WJWXY''

BchY. 'h\]g'ZYUhi fY']g'Uj U]'UV'Y']b'K]bXck g'j Yfg]cb'cb'm"

8YWfmdh 6`UW_6Yffm%\$ 6UW_i dg

@cWU``VUW_i dg`dfcXi W'X`Vm6`UW_6Yffm@]b_`UfY`U`k Umg`YbWfmdhYX`k]h\`U`\][\`mgYW fY`\UfXk UfY!gdYWJZJWYbWfmdh]cb`_Ymž YZZYWh]j Y`mdfYj Ybh]b[`ZcfYbg]WUbU`mh]Whcc`g`Zfca `dfcWfgg]b[`6`UW_6Yffm%\$`XUhU"`5g`Yj Yb`h\Y`cf][]bU``i gY`\Ug`bc`Wcbhfc``cj Yf h\Y`dUggk cfX`dfchYWf]b[`h\YgY`VUW_i dgž`h\Y`cb`mdcgg]V`Y`k UmcZi g]b[`h\YgY`VUW_i dg`k Ug`fYghcf]b[`h\Ya 'cbhc`U`6`UW_6Yffm XYj]WY`k]h\`h\Y`gUa Y`6`UW_6Yffm=8`z`a U_]b[`ZcfYbg]WUbU`mg]g`cZ'h\YgY`VUW_i dg`Yl hfYa Y`m`W a VYfgca Y"

 $9'Wca~gcZh'D\cbY'6fYU_Yf'WUb'YZZYWh]j~Y'mXYWfmdh'6'UW_6Yffm'%$'VUW_i~dg'dfcXi~WYX'k~]h\'6'UW_6Yffm'@]b_']Z'h\Y'i~gYft By 6'UW_6Yffm'=8'UbX'dUggk~cfX'UfY'_bck~b''$

GY`YVM]jY5VWVfggʻhcʻ]7`ciX6UV \underline{V} idg

8ck b`cUX]b['U``Uf[Y`VUWi d`Zcf`h\Y'j YfmZ|fgn'h]a Y`WUb`dchYbh]U``m'hU_Y`\ci fg" 'Gi VgYei Ybh'i dXUhYg`UfY`]bWYa YbhU`ž'UbX`cWW f a i W. 'ZUghYf" =Z gdYYX`]g`YggYbh]U`ž'9`W&a gcZh`D\cbY`6fYU_Yf`cZZYfg`h\Y`UV]`]hm'bc`ei]W_`m'UW&i]fY`gY`YWh']bZcfa Uh]cb`UbX`g_]d XUhU`h\Uh@y`hU_]b['h\Y``cb[Ygh`hc Xck b`cUX`fbi W. 'Ug'a i g]WUbX'j]XYcgt" =bZcfa Uh]cb`gi W. 'Ug'a YggU[Ygž'UhhUW.a Ybhgž'd\cbY gYhh]b[gž'WU```c[gž'UXXfYgg`Vcc_gž'bchYgž'W'YbXUfgž'Ya U]``UWWi bh'gYhh]b[gž'WUa YfU`fc``ž'UbX`a Ubmch\Yf'd]YWWg'cZ']bZcfa Uh]cb WUb`VY`dfY! gY`YWhYX`UbX`Xck b`cUXYX`]b`'i gh'a]bi hYgž'dfcj]X]b[']bj Ygh][Uhcfg`k]h\ 'bYUf'fYU`! h]a Y`UWWYgg`hc`YggYbh]U`]bZcfa Uh]cb"

9 Wta GcZhczZYfg'h\Y'Wta d'YhY'ccc'_]h'Zcf'dYfZcfa]b['ZcfYbg]WUbU'mg]g'cZYbWfmdhYX'i gYf'XUhU'ghcfYX']b'WffhU]b
]D\cbY#]DUX#]DcX'XYj]Wfg" H\Y'cc'_]h'U'ck g'Y'][]V'Y'W ghca Yfg'UWti]f]b['V]h'hc!V]h'a U[Yg'cZ'XYj]WfgDZ]Y'gmghYa gz'Yl hfUWh]b[
d\cbY'gYWfYhg'fdUggWtXYgz'dUggk cfXgz'UbX'YbWfmdh]cb'_YmgL'UbX'XYWfmdh]b['h\Y'Z]Y'gmghYa 'Xi a d"'5WWfgg'hc'a cgh']bZcfa Uh]cb
]g'dfcj]XYX']b'fYU'!h]a Y"'=b'UXX]h]cb'hc'9'Wta gcZh'D\cbY'6fYU_Yfz'h\Y'hcc'_]h']bWi XYg'h\Y'UV]']mh'hc'XYWfmdh']a U[Yg'cZ'XYj]WfgD
Z]Y'gmghYa gz'Ug'k Y'`'Ug'U'ZfYY'hcc''h\Uh'Wb'Yl hfUWh'h\Y'YbWfmdhYX'Z]'Y'gmghYa 'ci h'cZ'h\Y'XYj]Wf']b'fUk 'Zcfa "'A cfY']bZcfa Uh]cb
]g'Uj U]'UV'Y'cb'U'XYX]WWhYX'K YV'dU[Y"

: YUhi fYgʻUbXʻ6YbYZ]hg

- •; U]b UWWYgg hc]bZcfa Uh]cb ghcfYX]b dUggk cfX!dfchYWYX]D\cbYž]DUXž]DcX Hci W\ UbX 6`UW_VYffmVUW_idg
- 8YWfmdh']D\cbY'UbX'6`UW_6Yffm'VUW_i dg'k]h\'_bck b'dUggk cfXg
- 8YWmdh6`UW_6Yffm%\$ VUW_i dg k]h\ _bck b 6`UW_6Yffm=8 UbX dUggk cfX
- FYVkj Yf'dUggk cfXg'hc'6'UW_6Yffm'DUggk cfX'? YYdYf'UbX'K U''Yh'Udd']\WJh]cbg
- =bghUbh`m`XYWfmdh`6`UW_6Yffm`DUggk cfX`?YYdYf`Zcf`6`UW_6Yffm`%\$`WcbhU]bYfg
- FYWtj Yf 6 UW_6Yffm XYj]Wr dUggk cfX 0%0
- FYW¢jYf'a UghYf'dUggk cfX'hc'%DUggk cfX'W¢bhJ]bYfg'Yl hfUWhYX'Zfca '8fcdVcl ž'`cWJ``UbX'Wci X']CG'VUW_i dg
- FYUX`UbX`XYWmdh'_YmW\U]b`XUhU`fYa U]``UWWci bh'dUggk cfXgž'K]!:]`dUggk cfXgž'UbX`dUggk cfXg`mci 'YbhYf']bhc`k YVg]hYg
 UbX`gca Y`ch\Yf`Udd`]WUh]cbgŁ
- GUj Y hja Y k]h\ 'Woght YZZJWYbh'; DI 'UWWYYfUhjcb'k \Yb'cbY'cf'gYj YfU`'5A 8 'cf'BJ =8 =5 'j]XYc'WUfXg'UfY']bghU``YX@Q
- $\bullet \ \ \, DYfZcfa\ \ `UXj\ UbWYX`X]Wh]cbUfm`UhhUW\underline{g}`k\]h\ \ `\ \][\ \ `m`W\ ghca\]nUV`Y`dYfa\ i\ hUh]cbg$
- DYfZcfa cZZ]bY*UhhuW_g*k]h\ci h*5dd*Y*]Hi bYg*cf*6*UW_6Yffm*8Yg_hcd*GcZhk UfY*]bghU**YX
- FYWej Yf'dUggk cfXg'hc'VUWi dg'Zcf'cf][]bU''UbX'[/U]'Vfc_YbĐ]D\cbY'fU'''a cXY'g'i d'hc']D\cbY'* 'UbX'* 'D'i gŁż']DUX'fU''
 [YbYfUh]cbg']bW'']DUX'A]b]Łż'UbX']DcX'Hci W\'fU'''[YbYfUh]cbgŁ'XYj]W'g
- 8ck b`cUX'5dd'Y']7'ci X'VUW_i dg'k]h\ '5dd'Y'=8'UbX'dUggk cfXz'cf'Ui h\Ybh|Wbh]cb'hc_Ybg'fbc'\]XXYb'ZYYg. 'mci'[Yhib']a]hYX'YI hfUWh]cbg'k]h\ci h'dUm]b['Ubm_]bX'cZ'gi VgWf]dh]cbg'cf'UXX]h]cbU''ZYYg'L
- @cWWhY`UbX`YI hfUWh`]7`ci X`Ui h\Ybh]WWh]cb`hc_Ybg
- 8ck b`cUX`YI hfU'XUhU'Zfca '5dd`Y']7`ci X`UWWti bhg`ftZ]Yg'Zfca ']7`ci X`8f]j Yž']bW''cbYg'bch'UWWgg]V`Y`VmcdYfUh]b[gnghYa Ł

BchY. 'dUggk cfX' fYWej Yfm'ZYUhi fYg' UfY 'Uj U] 'UV `Y `]b 'K]bXck g'j Yfg]cb 'cb `m'

9'Wta GcZh'cZYfg'U'\][\`mYZZJ\YYbhz'\Wtgh!YZZY\Wh]j Y'gc'i h]cb'hc''Yb[h\mUh\U\W_g'VmXfUa Uh]\WU'`m]b\WY\Ug]b['h\Y'gdYYX'cZ'dUggk cfX fY\\text{Vbj Yfmk \Yb'cbY'cf'a cfY'gi ddcfhYX'j]XYc'\\WfXg'\UfY'dfYgYbh'''H\Y'\\text{Vba dUbm}\text{gi'dUh\Ybh\YX'; DI 'U\\WY'YfUh]cb'fYXi \W'g'h\Y'h]a Y fYei]fYX'hc'fY\\text{y'} yf']D\cb\Y#]D\c\Y#

Hc'a U_Y'; DI 'UWWYYfUh]cb'Wcgh!YZZYWh]j Yž'9'Wca GcZh']a d`Ya YbhYX'gi ddcfh'Zcf'a i `h]d`Y'X]j YfgY'; DI 'UWWYYfUh]cb'i b]hg'fi bb]b[Uh'h\Y'gUa Y'h]a Y"'9ZZYWh]j Y`mž'h\]g'Vi X[Yh!Zf]YbX`m'gc`i h]cb'U``ck g'a]I]b['a i `h]d'Y'[YbYfUh]cbg'cZ'Wca dUh]V`Y'j]XYc'WUfXgžYI hYbX]b['YI]gh]b['gnghYa g'Vm'UXX]b['bYk'UWWYYfUh]cb'\UfXk UfY']bghYUX'cZ'fYd`UWJb["

BchY. 'bch'Udd`]\WV`Y`hc'A U\CG'L'j Yfg]cb

5Xj UbWYX 5HhUWg

 $9. \label{eq:continuity} 9. \label{eq:continuity} 9. \label{eq:continuity} 9. \label{eq:continuity} 9. \label{eq:continuity} 19. \label{eq:continu$

BchY. 'bch'Udd']WUV'Y'hc'A UWCG'L'j Yfg]cb

91 hfuWh UbX 8 YW mdh GhcfYX DUggk cfXg

D`YUgY`bchY`h\Uh'hc`XYWImdh'h\Y`_YmW\U]b`Zfca``c\Wb``f]]Hi bYgL`dUggk cfX!dfchYWYX`VUW_i dz`mci`cb`m'bYYX`h\Y`dUggk cfX`hc
VUW_i d`]hgY`Z'': cf``c\Wb'`bcb!Yb\WimdhYX`VU\W_i dg`UbX`VU\W_i dg`Xck b`c\UXYX`Zfca`]Z`ci Xz`XY\Wimdh]cb`cZ'h\Y`_Ym\X\U]b`]g`dcgg]V`Y`]Z
mci`\Uj Y`d\mg]\Wb``U\W\Ygg'hc`h\Y`XYj]\W\`UbX`gc`\Wb'[Yh'h\Y`gdY\\Z]\WYb\Wimdh]cb`_Ym`f\\$I,') z`gc!\Wb``YX`f\gY\W\f]\mXfL`Zfca`h\YfY
f\Y''["'i g]b[\"9\\\daggan_CG': cfYbg]\\daggan_C\"f\b\"

CZZ]bY 6UWi dg

9`Wta gcZhD\cbY`6fYU_Yf`XcYg`bchi gY`5dd`Y`]Hi bYg`cf`6`UW_6Yffm'8Yg_hcd`GcZhk UfYž`UbX`XcYg`bchibYYX`hc`\Uj Y`h\cgYdfcXi Whg`]bghU``YX"`5```dUggk cfX`fYWtj YfmcdYfUh]cbg`UfY`dYfZcfa YX`cZZ]bY"

DUggk cfX A UbU[Yfg

9`Wca gcZhD\cbY`6fYU_Yf`VWb`XYWfmdhYbWfmdhYX`WcbHJ]bYfg`WfYUhYX`Vmdcdi `Uf`dUggk cfX`a UbU[Yfg`]bWi X]b[`6`UW_6Yffm DUggk cfX`? YYdYf`UbX`K U``Yh'Zcf`6`UW_6Yffmž'Ug'k Y```Ug'%DUggk cfXž'U``ck]b[`]bj Ygh][Uhcfg`UWWfgg]b[`U```cZ'h\Y`gi gdYWWg`ghcfYX dUggk cfXg"

5 WWYgg = b Zcfa Uh]cb GhcfYX]b 6 UW 6 Yffm DUggk cfX ? YYdYf UbX K U Yh

5 [fYUh'XYU`cZ\][\`mj U`i UV`Y`]bZcfa Uh]cb`]g`ghcfYX`]b`6`UW_6YffmDUggk cfX`? YYdYf`UbX`6`UW_6YffmK U``Yh`Uddg`fdf]cf`hc 6`UW_6Yffm%\L"`I gYfgfi`c[]b`WfYXYbh]U`g`k]h\`K YV`g]hY`dUggk cfXg`UfY`_Ydh`]b`6`UW_6YffmDUggk cfX`? YYdYf`hc`dfcj]XY`a cV]`Y i gYfg`k]h\`ZUghYf``c[]b`YI dYf]YbWf"`6`UW_6YffmK U``Yh`ghcfYg`i gYfgfiZ]bUb\JU``]bZcfa Uh]cb`]bWi X]b[`WfYX]h`WUfX`bi a VYfgž`V]``]b[UbX`g\]dd]b[`UXXfYggYgž``cmU`hm`dc]bhg`bi a VYfgž`Yh\V

=bZcfa Uh]cb^]b^6`UW_6YffmDUggk cfX^?YYdYf^UbX^K U``Yhi\Ug^Ub^Yl HfU``UmYf^cZ'dfchYVMjcb"'H\Y`XUhU^]g`gYW`fY`m'YbWfmdhYXž dfchYVMYX^k]h\`]bX]j]Xi U``a UghYf`dUggk cfXg"'9`W&a gcZh`D\cbY`DUggk cfX`6fYU_Yf`Wb`ei]W_`m_Q_QfYW&j Yf`h\Y`a UghYf`dUggk cfXgž UbX`i b`cW_UWWfgg'hc`i gYfgDdUggk cfXg'UbX`Z]bUbX\JUbZcfa Uh]cb'ghcfYX]b`DUggk cfX`?YYdYf`UbX`K U``Yh`Uddg"

$= bghUbh'8YWfmdh]cb'cZ'6`UW\underline{\ }6Yffm'DUggk\ cfX'?YYdYf'fl6`UW\underline{\ }6Yffm'\%L

DfYj]ci g'j Yfg]cbg'cZ'6`UW_6Yffm'DUggk cfX'?YYdYf'i gYX'U'i gYf!gdYWJZJYX'a UghYf'dUggk cfX'hc'dfchYWh'h\Y'dUggk cfX''WbhU]bYf" FYWYbh'j Yfg]cbg'cZ'6`UW_6Yffm'DUggk cfX'?YYdYf'Ya d'cm'Ub'YgWfck '_Ym'hc'UW\]yj Y'h\Y'gUa Y"'9`Wba gcZh'D\cbY'6fYU_Yf'WbbYI hfUWh'h\Y'YgWfck '_Ym'UbX']bghUbh'mXYWfmdh'6'UW_6Yffm'DUggk cfX'?YYdYf'WbbHU]bYfg'YI hfUWhYX'Zfca '6'UW_6Yffm'%\$'VUW_i dg''

%DUggk cfX`]g`U`dcdi `Uf`Wrcgg!d`UhZcfa `dŪggk cfX`a UbU[Yf`Uj`UJ`UV`Y`Zcf`A UWCG`Lž`K]bXck gž`5bXfc]X`UbX`]CG"'`%DUggk cfX WcbHJ]bYfg`UfY`dfchYVWYX`k]h\`U`i gYf!XYZ]bYX`a UghYf`dUggk cfX"'9`Wca gcZh`D\cbY`6fYU_Yf`WJb`UHHJW_`a UghYf`dUggk cfXg`UbXXYWrmdh'%DUggk cfX'WcbHJ]bYfg`fYHf]Yj YX`Zfca `8fcdVclž']Hi bYg`cZ']7`ci X`VUW_i dg"

FYWcj Yf 6 UW_6Yffm8Yj JWY DUggk cfX

H\Y`fYWtj YfmcZ6`UW_6Yffmftdf]cf`hc`j Yf]gcb`%\$L`dUggk cfX`]g`dcgg]V`Y`]Zh\Y`i gYf! gY`YWWUV`Y`8 Yj]WY`DUggk cfX`gYW f]hm`cdh]cb`]g YbUV`YX`hc`YbWfmdh'a YX]U`WUfXgž'9`Wta gcZh`D\cbY`DUggk cfX`6fYU_Yf`WUb`hfma]``]cbg`dUggk cfX`Wta V]bUh]cbg`dYf`gYWtbXž`fYWtj Yf]b[`U`ZU]f`m`cb[`+! W\UfUWYf`dUggk cfX`]b`U`a UhYf`cZ\ci fg"`K]h\`h\Y`UV]`]hm`hc`fYWtj Yf`h\Y`XYj]WY`dUggk cfXž'9`Wta GcZh`XcYg`k\Uhfg`VYYb``cb[`Wtbg]XYfYX`]a dcgg]V`Yž`cbWf`U[U]b a U_]b[`9`Wta gcZh`D\cbY`DUggk cfX`6fYU_Yf`h\Y`k cf`Xfg`Z]fgh"

BchY. h\]g ZYUh fY]g Uj U] UV Y]b K]bXck g j Yfg]cb cb`m"

7ca dUh]V]`]hm7\Ufh<ca Y

fK]bŁ Dfc

fK]b#A UWL: cfYbg]W

BchY. dUggk cfX fYWtj YfmZYUhi fYg UfY Uj U] UV Y]b K]bXck g j Yfg]cb cb`m'

9'Wta gcZh'D\cbY'6fYU_Yf'gi ddcfhg'K]bXck g'J]ghUž'K]bXck g'+ž'K]bXck g', #, "%'UbX'K]bXck g'GYfj Yf'&\$\$' #&\$\$, #&\$%&'k]h\'I' & UbX'I * ('UfW\]hYWi fYg" DUggk cfX! dfchYWhYX'VUW_i dg'hc']D\cbY''; ž']D\cbY''; ž']D\cbY''; Ğž']D\cbY''; Ğž']D\cbY'' * Ž']D\cbY'' * Z']D\cbY'' *

D`YUgY bchY h\ Uh'9`Wta gcZh'D\ cbY`DUggk cfX'6fYU_Yf']g'BCH'UV`Y'hc'fYa cj Y'h\ Y']CG'UWh]j Uh]cb``cW_'cf']D\ cbY dUggWtXY``cW_žii b`cW_']D\ cbY Zfca 'h\ Y'Wdff]Yfž'^U]`VfYU_ 'h\ Y']D\ cbY'cf'fYa cj Y'G=A 'WWfX'D=B 'WtXY''=h']g']bhYbXYX Zcf'fYWtj YfmcZ'VUW_i d'dUggk cfXg'cb`m'': cf'a cfY']bZcfa Uh]cbž'fYUX'h\ Y'9DD6'a Ubi U`UbX'D\ cbY'DUggk cfX'6fYU_Yf :5E."

%"

=Z`Ub`cdh]cb`hc`YbWfmdh`h\Y`a YX]U`WUfX`fk]h\`dUggk cfXŁ`]g`YbUV`YX`

&"

=bghU``]b[``UhYgh`X]gd`Um`Xf]j Yf`]g`fYWta a YbXYX`k \Yb`i g]b['; DI 'UWWY`YfUh]cb`cb`BJ =8=5`cf`5A 8`WUfXg"': cf`a i `h]!; DI WtbZ][i fUh]cbg`K]bXck g`+`]g`fYWta a YbXYX"'

1 11 .

\$ \$... k k "[ga !gi ddcfh"bYh]

