

MTRN3500

7 ca di h]b['5dd`]WU]cbg]jb`A YWUhfcb]Wg`GmgHYa g

HYfa `H\fYY`##`&\$&\$

GWcc`cZA YWUbjWU`UbX`A Ubi ZUWU f]b['9b[]bYYf]b[`##`I BGK ``9b[]bYYf]b[

fZ *%&E' ,) (\$- + -'GWcc`C ZjWfH

HD`YUgY'bcH' hUhihY'GWcc`C ZjW`k]`bch_bck `k \Yb#Zmci fWci fgY`Wcbj Ybcf]g'cb`Wla di g'cf Uj U]UV`Y

9a U]

[9b\[\]bYYf\]b\[\]Gh XYbhGi ddcfhGYfj \]Wg](#) -W ffYbighi XYbhYbei]f]Yg

- Y"["Ybfc`a YbZ`dfc[fYgg]cbZ`WUg\`fYei YghZ`Wci fgY`]ggi Yg`cf`dfc[fUa !fY`UHX`ei Yf]Yg

[9b\[\]bYYf\]b\[\]Xg gf\]U`HfU\]b\]b\[\]`Xg gf\]U`HfU\]b\]b\[\]ei Ygh\]cbg](#)

[L_BGK`Gh Xm5VfcUX`](#) -gh XmUVfcUX`gh XYbhYbei]f]Yg`fZcf`]bVci bX`gh XYbht

[L_BGK`9l WXUb\]Y`](#) -gh XYbhYl WXUb[Y`Ybei]f]Yg`fZcf`]bVci bX`gh XYbht

[L_BGK` : i h fY`Gh XYbht](#) -dchYbh]U`gh XYbhYbei]f]Yg

- Y"["UXa]gg]cbgZ`ZYgZ`dfc[fUa gZ`WYX]hHfUbgZYf

GWcc`C ZjW

7 ci fgY'8YHJ]g

7 fYX]hDc]bng '*

Gi a a UfmicZħY'7 ci fgY

H\Y'Uja 'cZħ]g'Wēi fgY]g'hc'ja d'Ya YbhgcZk UfY'Zcf'j Y\]WY'g]a i 'U]cb'UbX'Wēb'fbc'"H\Y'dfY]]ci g'm UWēi]fYX'7 #7 ŽŽ'dfc[fUa a]b['UbX'Wēb'fbc'"gmgħYa g'bc'k'YX[Y'g'i gYX'hc'XY] Y'cd' i gYf']bh'fZUW'gž g]a i 'U]cbg'a cXY'g'UbX'Wēb'fbc'"U[cf]ħa g'Zcf'ħY'Wēb'fbc'"cZ] Y\]WY'g']bW' X]b['Wf']_Y'fcVch]W] Y\]WY'gž ħUW_YX'j Y\]WY'g'i W'Ug'Vi 'XcnYfg'UbX'Zci f!k \YY'!ghYf'UbX'Zci f!k \YY'!Xf]j Y'j Y\]WY'g'?"]bYa U]W UbX'f'XmbUa]Wa cXY'g'cZħYgY'j Y\]WY'g'k]'VY'i gYX']b'XY] Y'cd]b['g]a i 'U]cb'a cXY'g'"ē'UXX]ħcbžħY Wēi fgY'k]'U'gc'ħYUW'ħY']bh'fZUW']b['cZħU'U'Wēi]g]ħcb'gmgħYa gž'a ch'cb'Wēb'fbc'"gmgħYa gž'gYbgc'fg'gi W'Ug']bYf]U'g'Ybgc'fgž; DG'gYbgc'fgž'UgYf'gYbgc'fg'UbX'YbWē'XYfg'hc'ZUW']ħY'gYbg]b['UbX'UW' U]cb'"H\Y' Wēi fgY'\Ug'Ub'YI'ħYbg]j Y'YI'dYf]a YbħU'Wēb'ħY'bhk \YfY'ħY'UVcj Y'XY] Y'cdYX'gcZk UfY'k]'VY'i gYX'hc' Wēb'fbc'Y']ħYf'U'ħUW_YX'j Y\]WY'cf'U'k \YY'YX'j Y\]WY'"

7 ci fgY'5]a g

H\]g'Wēi fgY'k]'\Y'd'mēi 'YUfb'\ck'hc'di h'mēi f'dfc[fUa a]b['g_]]g']bhc'dfUW]W'V'mXYU']b['k']ħ'gca Y'fYU' k'cfX'gmgħYa g'"5g'A YW'Ufcb]Wg'9b[]bYYfgž'k Y'k]']bYj]ħU'V'm\Uj Y'hc'XYU'k]ħ'gca Y'fYU'k'cfX'gmgħYa gž'Yh'ħYa 'VY'fcVchž'Ui ħca U]YX'a UW']bYgž'Ui ħbca ci g'j Y\]WY'g'UbX'gc'cb'"5g'mēi 'WU']a U[]bYžVY'ZcfY mēi 'WU']b'Vf]b['U'gmgħYa 'i bXYf'ħY'Wēb'fbc'"cZmēi f'gcZk UfY'mēi '\Uj Y'hc'Vi]X'U'Vf]X[Y'hc'ħY'a UW']bY' k \]W'k Y'WU']bh'fZUW']b["H\YfY'ZcfYž'ħY'Z]fghidUfħcZħY'Wēi fgY]g'cb']bh'fZUW']b["': cf'ħ]g'mēi 'k]'VY'i'g]b[UbX'cb']bY'UW']g]V'Y'YI'dYf]a YbħU'f] ['Yei]ddYX'k]ħ'U'j]XYc'ghYf'Ua 'k \]W'k]'U'ck'mēi 'hc'gY'k \U]g' ħU']b['d'UW'U'ħ'ħY'YI'dYf]a YbħU'f] ["5Zħf'UWēi]f]b['ħY']bh'fZUW']b['g_]]g'UbX'dfc[fUa a]b['Uggc'W'U]YX' k]ħ']ħ']b'għU[Y'ħ'cž'mēi 'k]']a'cj Y'cb'hc'ħU'Y'Wēb'fbc'"cZU'fYU'a UW']bYž']b'ħ'g'WU'gY']ħ'k]'VY'Ub'] ;]']ħ'k]'\Uj Y'U'gi]ħ'cZgcd']għ]W]ħY'X'gYbgc'fgž'gi W'Ug'ħY'; DGž'UgYf'fUb[Y'Z]bXYfg'UbX'dcgg]V'mU'fY] Yfg]b[W]a YfU'UbX'ħ'Yb'U'a ch'cb'Wēb'fbc'Y'f'ħ'U'ħ'k]'ZUW']ħY']hg'Xf]j]b['UbX'ghYf]b["Mēi 'k]'YUfb'\ck'hc'fYUX' ħYgY'gYbgc'fgž']bh'f'f'Y'ħ'Y'XU'U'UbX'Z]bU'm'Xf]j Y'ħ'g'U'fci bX'i bXYf'ħY'Wēb'fbc'"cZgcZk UfY'mēi 'k]' XYj Y'cd'"ħ]g'ja dcf'fU'bh'hc'bc'ħ'ħ'U'ħ'ħ]g'Wēi fgY]g'bc'ħU'dfc[fUa a]b['Wēi fgY'k \YfY'dfc[fUa a]b['k]'VY' ħU'] [\ħ'Z'ck Yj Yfž'mēi f'dfc[fUa a]b['g_]]g'k]'VY'ħY'ghYX']b'ħ'g'Wēi fgY'"H\Y'Ub[i U[Y'mēi 'a' i gh'i gY]g 7 ŽŽ'"5h'ħY'YbX'cZħ]g'Wēi fgY'mēi 'k]'Z'Y'Wēb'Z]XYbh']b'XY] Y'cd]b['gcZk UfY'hc'Wēb'fbc'"Ub'Ui ħca U]YX' gmgħYa "

7 ci fgY '@YUfb]b['Ci hWēa Yg

5Zħf'gi W'W'ggZ 'm'Wēa d'Yħ]b['ħ]g'Wēi fgYž'mēi 'g\ci 'X'VY'UV'Y'hc.

@YUfb]b['Ci hWēa Y	95'GHU[Y%'7ca dYħ'bW]Yg
%"'6Y'k Y'j YfgYX'k]ħ'gh'i W'ħ'fYX'UbX'a cXi 'Uf'dfc[fUa a]b['i'g]b[7 #7 'UbX'hc'\Uj Y'UddfYW]U]YX'ħY'i gY'cZgcZk UfY'hc Wēa a i b]W]ħY'k]ħ'YI'ħYfbU'XYj]W'g"	D9%"
&"'6Y'UV'Y'hc'i bXYfgh'UbX'XU'U'gh'i W'ħ'fYgž'XU'U'ħ'fUbgZf'UbX'ħ'fU'bg'a]gg]cb'Ug'k Y'Ug']bh'f'f'dfc'W'gg'Wēa a i b]W]ħ'cb"	D9%"
' "'6Y'UV'Y'hc'XYj Y'cd'Z']'gcZk UfY'dUW_U[Yg'ħ'U'ħ'UfY'i gUV'Y'k]ħ'Wēa a Yf'U']fUXY'A YW'Ufcb]WgmgħYa g"	D9&"

HYUW']b['GħfU]Y[]Yg'

HYUWX]b['cZħ]g'Wēi fgY 'jg'h'fci [\ 'k YV!VUgYX''YWñ fYg'UbX''UVcfUhc'fmigYgg]cbg"5''UVcfUhc'fmk cf_]g
]bX]j]Xi U'k cf_ 'UbX''UVcfUhc'fmigYhi dg'g\c'X'VY'UWY'ggYX'cb]bY''H\Y'a U'cf]hmicZħY''UVcfUhc'fmk cf_
]bj c'j Yg'gca Y'Zcfa 'cZ\UfXk UfY''#]h]U'mž'h'Y'\UfXk UfY']g'dfYXca]bUbh'migYbgc'fg'UbX'j Uf]ci g_]bXg'cZ
]bH'fZUW'XYj]W'g'gi V\Ug'UbU'c[i Y'UbX'X][]hU'']bdi h#i hdi hXYj]W'g" Hck UfXg'h'Y'YbX'cZħY'Wēi fgYžU
Z ''mXYj Y'cdYX'd\mg]WU''gmghYa 'gi V\Ug'U'I ; J 'k]''VY'dfc[fUa a YX'UbX'Wēb'f'c''YX"

H\Y'dfcj]g]cb'cZħY''YUfb]b['Ybj]f'c'ba Ybh]b'h'Y''UVcfUhc'fm]g'h'c'ZUW']hU'Y'm'ei 'h'c'XYj Y'cd'Wēb'ZXYbW']b
a UbU[]b[''UVcfUhc'fm]hUg_g'Ug'dfc'YW'g''H\Y'a U'cf]hmicZħY''UV'k cf_]bj c'j]b['UWñ Uhc'fg'k]''VY
gi dYfj]gYX'Vm'h'Y'XYa cbg'fUhc'fgž'dfc'Z'gg]cbU''cZ]W'fg'UbX'h'Y'UW'X'Ya]W]b'V\Uf[Y"

5XX]h]cbU'7ci fgY' #Zcfa Uh]cb

H\]g'Wēi fgY'\YUj]m'fY']Yg'cb'm'ei 'df]c'f'dfc[fUa a]b['_bck 'YX[Y'UbX'7 # Ž Ž '_bck 'YX[Y''H\Y'ghUbXUfX'dfY!
fYei]g]h']g'A HF B &) \$\$"

H\Y`gh XYbhg`a i ghXYj Y`cd`gcZk UfY`lc`Wcbfrc`h\Y`WUf`_Y j Y\]WY`]b`h\Y`UVcfUrcfmUbX`XYa cbghfUHY`]hg
dfcdYf`cdYfU]cb`]b`h\Y`UV

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

D`YUgY`fYZf`lc`h\Y`Ugg][ba YbhgdYWZ]W]h]cb`Zcf`h\Y`a Uf_]b[`i]XY`]bYg`

Gi Va]gg]cb`bchYg.Gi Va]h\Y`gcZk UfY`mci`XYj Y`cd`Ug`U`n]d`Z`Y`

Hi fb]h]b`gYH]b[. H\]g`]g`bchU`Hi fb]h]b`Ugg][ba Ybh

5ggYgga Ybh' . 7cbh]bi ci g`UggYgga Ybh] g]b[`k YY_`miA]bcf`E i]nnYg`Z`h\Y`h`fYY`dUfhg`cZ`h\Y`
A U`cf`E i]n`

GhUfhXUH. A]bcf`ei]nnYg`ghUfh(- `ci fg`VY`ZcfY`YWi`fYg`"A U`cf`E i]n`DUfh%/`&k`]"ghUfhcb`H\i fgXUmg`cZ`
k YY_g(`UbX`+`Uh`*`\$\$`da`"A U`cf`E i]n`DUfh`" k]`ghUfhUh`" da`cZA cbXUmcZK YY_`\$\$`

8YHJ]`g.

H\Y`*`\$`a Uf_g`k]`VY`Vfc`_Yb`Xck b`]bhc`k YY_`miA]bcf`E i]nnYg`UbX`h`fYY`dUfhg`cZ`h\Y`A U`cf`E i]nnYg`"H\Y`
k YY_`mei]nnYg`k]`UXX`i d`lc`%\$`a Uf_g`Z`A U`cf`E i]n`!`DUfh%]g`k cfh`%` `a Uf_g`Z`A U`cf`E i]n`!`DUfh&]g`
k cfh`%+`a Uf_g`Z`UbX`A U`cf`E i]n`!`DUfh`"]g`k cfh`&\$`a Uf_g`"

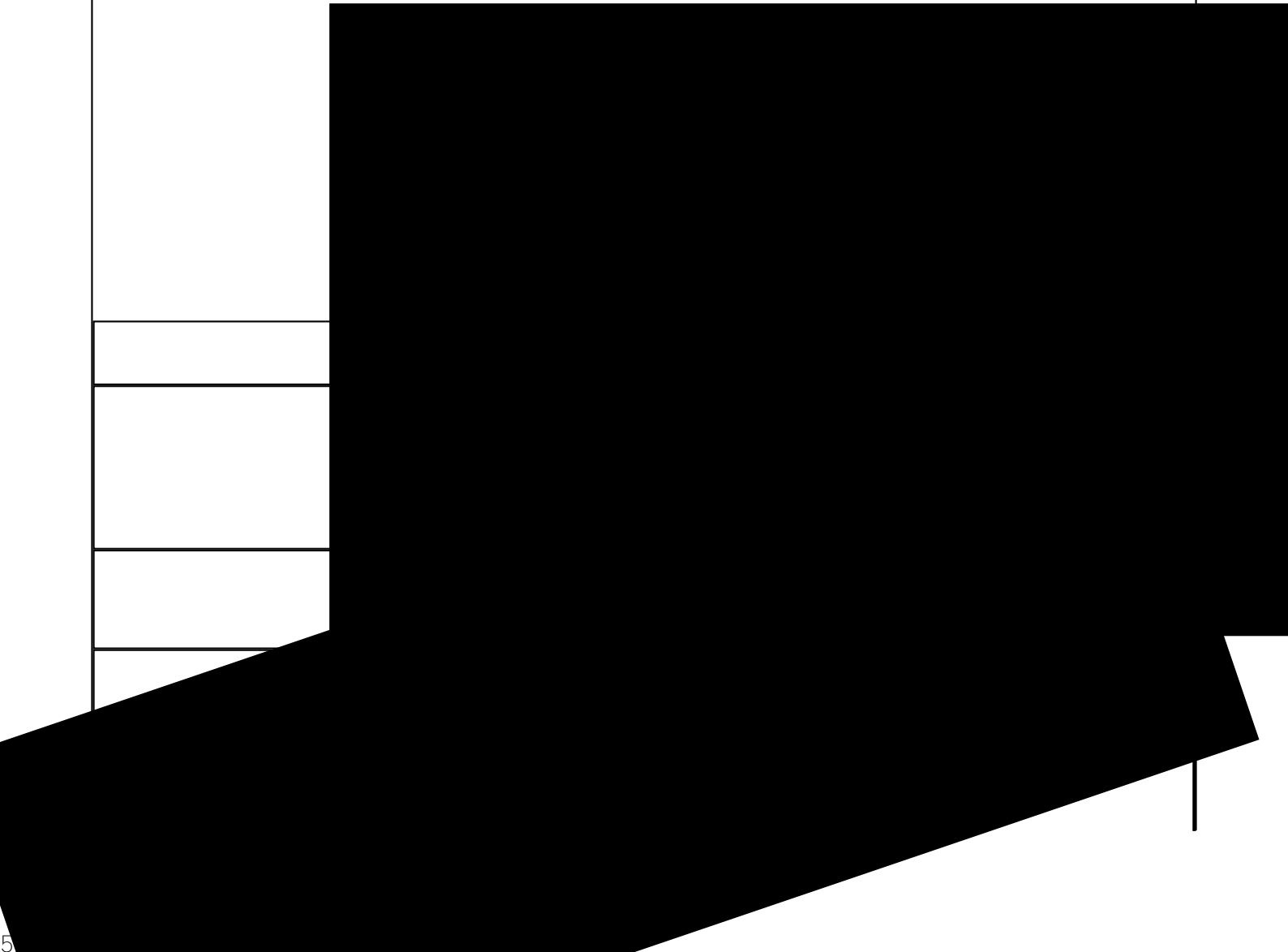
5XX]h]cbU`XYHJ]`g.

A Uf_g`Zcf`YUW`ei Ygh]cb`k]`VY`]bX]W]h]X`]b`h\Y`ei]n`]hgY`Z`

Gi Va]gg]cb`bchYg.5`ei]nnYg`UfY`W`a di`gcfm

Hi fb]h]b`gYH]b[. H\]g`]g`bchU`Hi fb]h]b`Ugg][ba Ybh

Gh XYbfg`UfY`glfcb[`mYbWŁi fU[YX`rc`UhhYbX`U`WUggYg`UbX`fYj`]Yk`"YWłi`fY`fYWŁfX]b[g"



	fYei]fYX'hc'k UhW\ 'h\Y'dfY!fYWŁfXYX'j]XYc''
5ggYgga Ybh	A]bcf'ei]n
5ggYgga Ybh	A Učf'E i]n'DUfh' : '7cbhYbhZfca 'K YY_g'+ž, ž-'UbX k YY_%\$'dfY!'YVh fY'j]XYcg'k]''VY'h'gh'X''
5ggYgga Ybh	5ggYgga YbhicZ5gg][ba Ybh&.'H\]g'k]''VY'XcbY Xi f]b['mci f'gWXYXi 'YX''UV'h]a Yg''D'YUgY'a U_Y'Ub Uddc]bħa Ybhk]ħ' mci f'XYa cbghfUhc'fž]b'k YY_-'

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

H\Y`gh XYbhg`k]``\Uj Y`UWVgg`hc`dfY!`YWñ fy`j]XYc`Wcbh`bñ`YWñ fy`g`]XYgž`gUa d`Y`dfc[fUa gž`UbX

Gi Va]gg]cb'cZ5ggYgga YbhiHUg_g

5ggYgga Ybhgi Va]gg]cb'UbX'a Uf_]b['Wf]hYf]U

G\ci 'X'hLY'Wci fgY'\Uj Y'Ubmbcb!Y'YWfcb]WUggYgga Ybhgi Va]gg]cbž'hLYg'g\ci 'X'\Uj Y'U'ghUbxUfX
GWkcc'Wcj Yf'g\YYH'

5`gi Va]gg]cbg'UfY'YI dYWfX'hc'VY'bYUhbX'WYUfmgYhici H'Mci f'fYgi 'hg'UfY'hLY'd]bbUWY'cZU`mci f'\UfX
k cf_'UbX'g\ci 'X'VY'hYUfX'k]h'Xi Y'fYgdYWf'DfYgYbh]b['fYgi 'hg'WYUfm[]j Yg'hLY'a Uf_Yf'hLY'VYghWUbwW
cZi bXYfgtUbx]b['mci f'a YhcxX/Yj Yb']ZhLY'bi a Yf]WU'fYgi 'hg'UfY']bVc'ffYWf'

A Uf_]b[[i]XY']bYg'Zcf'Ugg][ba Ybhgi Va]gg]cbg'k]`VY'dfcj]XYX'UhLY'gUa Y'h]a Y'Ug'Ugg][ba YbhXYH]g
hc'Ugg]ghk]h'a YH]b['UggYggUV'Y'fYei]fYa Ybhg'Gi Va]gg]cbg'k]`VY'a Uf_YX'UWwcfX]b['hc'hLY'a Uf_]b[
[i]XY']bYg'dfcj]XYX"

@UHY'dc`]Wm

K cf_gi Va]hYX'UH'k]h'ci hUb'Uddfcj YX'YI hYbg]cb'Vm'hLY'Wci fgY'Wc'cfX]bUhc'f'cf'XY'Y[UHY'X'Ui h'cf]hm]g
gi V'YWf'hc'U'UH'dYbU'micZ&\$'dYfW'bhf&\$i 'E'cZ'hLY'a U[]a i a 'a Uf_'dcgg]V'Y'Zcf'hU'UggYgga Ybh]hYa ž
dYf'WU'YbXUf'XUm'

HLY'UH'dYbU'mi]g'Udd'YX'dYf'WU'YbXUf'XUm]bWi X]b['k YY_YbXg'UbX'di V]W\c'XUmg'U'hU'hLY
UggYgga Ybh]g'c] YfXi Y''HLYfY']g'bc'dfc!fUfU'cZ'hLY'UH'dYbU'miZcf'gi Va]gg]cbg'a UXY'dUfhk Um'h'fci [\ 'U
XUm'

K cf_gi Va]hYX'UZ'Yf'hLY'XYUX']bY'Zcf'UVgc'i hY'ZU]']g'bc'hUWw'dhYX'UbX'U'a Uf_'cZnYfc'k]`VY'Uk UfXYX
Zcf'hU'UggYgga Ybh]hYa "

: cf'gca Y'UggYgga Ybh]hYa gž'U'UH'dYbU'mia UmibchVY'Uddfcdf]UH''HLYgY'UfY'WYUfm]bX]WUfX'']b'hLY
Wci fgY'ci h]bYž'UbX'gi W'UggYgga Ybhg'fYW'j Y'U'a Uf_'cZnYfc']ZbchWca d'YhX'Vm'hLY'gdYW]Z'YX'XUH''
9I Ua d'Yg']bWi XY.

% K YY_'micb']bY'hYgh'cf'UVcfUhc'fmik cf_'k cffh'U'ga U'dfc'dc'f]cb'cZ'hLY'gi V'YW'ia Uf_ž'cf
&' C b']bY'ei]nnYg'k \YfY'Ub'gk Yfg'UfY'fY'UgYX'hc'gfi XYbhg'cb'Wca d'Yh]cbž'cf
' " DfcZ'gg]cbU'UggYgga Ybh]Ug_gž'k \YfY'hLY']bhYbh]cb]g'hc'WYUf'Ub'Ui hLYbh]WUggYgga Ybh'hU
\Ug'Ub'UVgc'i hY'gi Va]gg]cb'XUH'ž'cf
(" DUgg# U]'UggYgga Ybh]Ug_g")

9I Ua]bU]cbg

Mci 'a i ghVY'Uj U]'UV'Y'Zcf'U''ei]nnYgž'hYgh'UbX'YI Ua]bU]cbg": cf'Wci fgYg'hU'h\Uj Y'Z]bU'YI Ua]bU]cbgž
hLYgY'UfY'\Y'X'Xi f]b['hLY']b] Yfg]hmYI Ua]bU]cb'dYf]cXg. : YVfi UfmZcf'Gi a a Yf'HYfa žA Um'Zcf'Hž
5i [i ghZcf'Hž'UbX'bcj Ya VYf#8YW'a VYf'Zcf'H' "

D'YUg'Y'j]g]ha m' BGK 'Zcf'Dfcj]g]cbU'9I Ua]bU]cb'h]a YHUV'Y'di V]g'\XUH'g": cf'Z'f'hLYf']bZcf'a U]cb'cb
YI Ua gž'd'YUg'Y'gY'hLY'9I Ua_g'k YVdU[Y"

GdYW]U'7cbg]XYfU]cb

žmci '\Uj Y'YI dYf]YbWfX'Ub']bYgg'cf'a]gUXj Ybh'fY'VYmcbX'mci f'Wc'bfcc'hU'hk]`]bhYfZ'fY'k]h'mci f'

UggYgga YbhdYfZcfa UbWžmci 'UfY'Y'[]V'Y'hc'Udd'mZcf'GdYWU'7 cbg]XYfUhc'b'df]cf'hc'gi Va]h]b['Ub
UggYgga Ybhcf'g]h]b['Ub'YI Ua "

I BGK 'bck '\Ug'U': [Jhrc'G\]h#Gi Va \]hfi_Yžk \\]](#)W'a YUbg'hUh]Zmci 'UthYa dhUb'YI Ua 'cf'gi Va]hU'd]YW'cZ
UggYgga Ybhž'mci 'UfY'XYWUf]b['mci fgY'Z]hYbci [\ 'hc'Xc'gc'UbX'W]bbch'Uthf'Udd'mZcf'GdYWU'
7 cbg]XYfUhc'b"

: cf'XYHU]g'cZUdd'm]b['Zcf'GdYWU'7 cbg]XYfUhc'b'UbX'W'cbX]h]cbg'Zcf'hY'Uk UfX'cZgi dd'Ya YbhUfm
UggYgga Ybhž'd'YUg'gYY'hY'jbZcfa Uhc]b'cb'I BGK 'g' [GdYWU'7 cbg\]XYfUhc'b'dU\[Y](#)"

D'YUgY'bc'hY'hUhghi XYbhg'k]'bchVY'fYei]fYX'hc'dfcj]XY'UbmXcW a YbhUfmYj]XYbW'hc
gi ddcfhUVgYbW'g'Zca 'UbmWUggYg'a]ggYX'VYWU] gY'cZ7CJ -8!%- 'di V']W\YU'h'a YUgi fYg'gi W'Ug
]gc'Uh]cb" I BGK 'k]'bchVY']bg]gh]b['cb'a YX]W'W'fh]Z]W'hYg'Zca 'UbmcbY'XYYa YX'hc'VY'U'dcg]h] Y'WUgYž
cf'k \Yb'hYm\Uj Y'fYV'ej YfYX" 'Gi W'W'fh]Z]W'hYg'UfY'X]Z]W'h'hc'cVHU]b'UbX'di hUb'i bbYW'ggUfmghfU]b'cb
gh XYbhg'UbX'a YX]W'ghUZZ'

5dd']W]h]cbg'Zcf'gdYWU'W'cbg]XYfUhc'b'k]'VY'fYei]fYX'Zcf'UggYgga YbhUbX'dUfh]W'dUh]cb'UVgYbW'g'—
Vi hbc'XcW a YbhUfmYj]XYbW'Zcf'7CJ -8 %-]'bYgg'cf']gc'Uh]cb'k]'VY'fYei]fYX']b'H' "

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

I BGK `Ug`Ub`cb[c]b[`Wca a]ha Ybhlc`ZcghYf]b[`U`W`hi fY`cZ`YUfb]b[`]bZcfa YX`VmiUWUXYa]W]bhY[f]m`5`
I BGK `gh`XYbhg`Uj`Y`U`fYgdcbg]V`]mhc`UX`YfY`hc`h`g`df]bW]d`Y`cZUWUXYa]W]bhY[f]m`D`U[]Uf]ga
i bXYfa]bYg`UWUXYa]W]bhY[f]m]UbX`]g`bchlc`YfUHX`Uhl`BGK`"B`SY[Sde_`SfG@E|`[e VWX` VW`Se ge[`Y`
fZWi`ad/e`ad[VWSe`aXafZW`S`V`bSee[`Y`fZW_`aXSe`kagdai` `z`

D`U[]Uf]ga`]g`U`hmdY`cZ]bhY`YW`i`U`h`YZ`i`#iW]b`hU`_Y`a`UbmiZcfa`gZ`Zca`XY`]VYfUHX`WX`YU]b[`hc`UWUXYbH`U`m`
W`dm]b[`Zca`U`gci`fW`k`]h`ci`hUW`bck`YX[`Ya`Ybh`I`BGK` `Ug`dfcXi`WX`U`k`YVg]h`k`]h`U`k`YU`h`cZ`
fYgci`fW`g`hc`gi`ddcfghi`XYbhg`hc`i`bXYfgHbX`UbX`Uj`c]X`d`U[]Uf]ga`z`j`]g]h`[gh`XYbh`i`bgk`"YXi`"Ui`#d`U\[\]Uf\]ga`"](#)
H`Y`@YUfb]b[`7`YbhY`Ugg]ghg`gh`XYbhg`k`]h`i`bXYfgHbX]b[`UWUXYa]W]bhY[f]m]UbX`ck`bchlc`d`U[]Uf]gY`
H`Y`miU`gc`lc`X`k`cf_g`l`cdg`UbX`W]b`Y`d`gh`XYbhg`cbY!cb!cbY`"

Mci`UfY`U`gc`fYa`]bXYX`h`UhWUfYZ``h`a`Y`a`UbU[`Ya`Ybh]g`Ub`]a`dcfHbhdUfhcZghi`XmiUbX`cbY`cZ`h`Y`
]XYbh]ZYX`W]i`gYg`cZd`U[]Uf]ga`]g`d`ccf`h`a`Y`a`UbU[`Ya`Ybh`G`h`XYbhg`g`l`ci`X`U`ck`gi`Z]W]Ybh]h`a`Y`Zc`f`
fYgYUfW`Z`XfU]h]b[`UbX`h`Y`dfcdYf`fY`Z`fY`bW]b[`cZ`gci`fW`g`]b`dfYdUf]b[`U`UggYgga`Ybh]Ug_g`"

Zd`U[]Uf]ga`]g`Zci`bX`]b`mci`f`k`cf`_`k`Y`b`mci`UfY`]b`Z]fghmYUfZ`mci`f`YW`i`fYf`k`]`c`ZYf`mci`Ugg]ghU`bW`hc`
]a`dfcj`Y`mci`f`UWUXYa]Wg_]`g`"H`Y`ma`UmUg`_`mci`hc`cc`_`Uhgca`Y`cb`]bY`fYgci`fW`gZ`U`hY`bX`h`Y`@YUfb]b[
7`YbhY`Z`cf`gca`Y`h`a`Yg`fYgi`Va`]h`mci`f`k`cf`_`k`]h`h`Y`dfcV`Ya`Z]`YX`"<ck`Yj`Yf`a`cfY`gYf]ci`g`]bgHbW`g`]b`Z]fgh`
mYUfZ`gi`W`Ug`gh`U`]b[`UbchYf`gh`XYbhg`k`cf`_`cf`dUm]b[`gca`YcbY`hc`Xc`mci`f`k`cf`_`za`UmVY`]bj`Ygh[`UH`X`
i`bXYf`h`Y`G`h`XYbhA`]gW`bXi`W`h`DfcW`Xi`fYg`"

F`YdYUHX`d`U[]Uf]ga`fYj`Yb`]b`Z]fghmYUfZ`d`U[]Uf]ga`UZYf`Z]fghmYUfZ`cf`gYf]ci`g`]bgHbW`gZ`a`UmU`gc`VY`
]bj`Ygh[`UH`X`i`bXYf`h`Y`G`h`XYbhA`]gW`bXi`W`h`DfcW`Xi`fYg`"H`Y`dYbU`h]Yg`i`bXYf`h`Y`dfcW`Xi`fYg`W]b`]bW`i`XY`
U`fYXi`W`h`cb`]b`a`Uf_gZ`Z]`]b[`U`W`i`fgY`cf`Zc`f`h`Y`a`cghgYf]ci`g`a`UH`Y`fg`f]`_Y`d`U[]Uf]ga`]b`Ub`l`cbci`fg`
h`Y`g]g`E`Yj`Yb`gi`gdYbg]cb`Zca`h`Y`i`b]`Yfg]m`H`Y`G`h`XYbhA`]gW`bXi`W`h`DfcW`Xi`fYg`UfY`Uj`U]UV`Y`Y`fY`.

[k`k`k`"\[g`i`bgk`"YXi`"Ui`#d`U\[\]Uf\]ga`\]W`<`cb`Y`g`m`i`U`b`X``D``U`\[` \]`U`f`\]`g`a`"\]`g`Z`c`i`b`X`\]`b`m`c`i`f`k`c`f`_`k`Y`b`m`c`i`U`f`Y`\]`b`Z`\]`f`g`h`m`Y`U`f`Z`m`c`i`f`Y`W`i`f`Y`f`k`\]`c`Z`Y`f`m`c`i`U`g`g`\]`g`h`U`b`W`h`c`\]`a`d`f`c`j`Y`m`c`i`f`U`W`U`X`Y`a`\]`W`g`_\]`g`"H`Y`m`a`U`m`U`g`_`m`c`i`h`c`c`c`_`U`h`g`c`a`Y`c`b`\]`b`Y`f`Y`g`c`i`f`W`g`Z`U`h`Y`b`X`h`Y`@`Y`U`f`b`\]`b`\[`7`Y`b`h`Y`Z`c`f`g`c`a`Y`h`a`Y`g`f`Y`g`i`V`a`\]`h`m`c`i`f`k`c`f`_`k`\]`h`h`Y`d`f`c`V`Y`a`Z`\]`Y`X`"<`c`k`Y`j`Y`f`a`c`f`Y`g`Y`f`\]`c`i`g`\]`b`g`H`b`W`g`\]`b`Z`\]`f`g`h`m`Y`U`f`Z`g`i`W`U`g`g`h`U`\]`b`\[`U`b`c`h`Y`f`g`h`X`Y`b`h`g`k`c`f`_`c`f`d`U`m`\]`b`\[`g`c`a`Y`c`b`Y`h`c`X`c`m`c`i`f`k`c`f`_`z`a`U`m`V`Y`\]`b`j`Y`g`h`\[`U`H`X`i`b`X`Y`f`h`Y`G`h`X`Y`b`h`A`\]`g`W`b`X`i`W`h`D`f`c`W`X`i`f`Y`g`"](#)

5ddYbX]l . '9b[]bYYfg'5i ghfU`U'f95Ł'DfcZYgg]cbU`'9b[]bYYf'7ca dYhYbWm
GHUbXUfX

Dfc[fUa ' bHYbXYX'@YUfb]b['Ci hWta Yg	
? bck `YX[Y'UbX'g_]`VUgY	
D9%"%7 ca dfY\Ybg]j YžhYcfmVUgYX'i bXYfghUbX]b['cZhY'i bXYfd]bb]b['bUh fU`UbX d\mg]WU`gWYbWg'UbX'hY'Yb[]bYYf]b['Z bXUa YbHU'g'Udd']WUV'Y'hc'hY'Yb[]bYYf]b['X]gWd`]bY	
D9%"&'7 cbWdh U`i bXYfghUbX]b['cZhY'a UhYa Uh]Wgžbi a Yf]WU`UbU'mg]gžghUhgh]WgžUbX Wta di hYf'UbX']bZcfa Uh]cb'gWYbWg'k \]W' i bXYfd]b'hY'Yb[]bYYf]b['X]gWd`]bY	
D9%" " ' b!XYdh'i bXYfghUbX]b['cZgdYWU`]ghVcX]Yg'cZ_bck `YX[Y'k]h]b'hY'Yb[]bYYf]b[X]gWd`]bY	
D9%"('8]gWfba YbhcZ_bck `YX[Y'XYj Y`cda YbhUbX'fYgYUfW'X]fYW]cbg'k]h]b'hY Yb[]bYYf]b['X]gWd`]bY	
D9%") ? bck `YX[Y'cZYb[]bYYf]b['XYg][b'dfUW]W'UbX'WcbHYI h U`ZUW'c'fg]a dUW]b['hY Yb[]bYYf]b['X]gWd`]bY	
D9%"* 'i bXYfghUbX]b['cZhY'gWc'dYž'df]bW]d'Ygžbcfa gžUW]c' bHUJ']h]Yg'UbX'Vci bXg'cZ gi gh]bUV'Y'Yb[]bYYf]b['dfUW]W']b'hY'gdYW]ZWX]gWd`]bY	
9b[]bYYf]b['Udd']WU]cb'UV']]m	
D9%"%5dd`]WU]cb'cZYghUV]g\YX'Yb[]bYYf]b['a Yh'cXg'hc'Wta d'YI'Yb[]bYYf]b['dfcV'Ya gc']]b[
D9%"&'&: 'i YbhUdd']WU]cb'cZYb[]bYYf]b['hYW]b]ei Ygž'hc'g'UbX'fYgci fW'g	
D9%" " '5dd`]WU]cb'cZgmg]Ya Uh]WYb[]bYYf]b['gmb'hYg]g'UbX'XYg][b'dfcW'ggYg	
D9%"('5dd`]WU]cb'cZgmg]Ya Uh]WUddfcUW]Yg'hc'hY'WcbXi W]UbX'a UbU[Ya YbhcZYb[]bYYf]b[dfc'YW]g	
DfcZYgg]cbU`UbX'dYfgcbU`Uhf]Vi hYg	
D9' "%9h]WU`WcbXi W]UbX'dfcZYgg]cbU`UW]c' bHUJ']]m	
D9' "&'9ZYW]j Y'cfU`UbX'k f]hYb'Wta a i b]WU]cb']b'dfcZYgg]cbU`UbX`UmXca U]bg	
D9' " '7fYUh]j Yž]bbcj Uh]j Y'UbX'dfc!UW]j Y'XYa YUbc' f	
D9' "('DfcZYgg]cbU`i gY'UbX'a UbU[Ya YbhcZ]bZcfa Uh]cb	
D9')" 'C'fXYf'ma UbU[Ya YbhcZgY'Zi'UbX'dfcZYgg]cbU`WcbXi W]	
D9' "*" '9ZYW]j Y'hYUa 'a Ya VYfg\]d'UbX'hYUa `YUXYfg\]d	