

.
7]i;i]Z°ADG9°XVhi°V°b ^]in! °cY°j edc°i]Z°hZV!°VcY°hi X] V°\g°ZVi°iZb.eZhi°XVb Z°j.edc°i]Z°hZV
i]V°i°i]Z°h] °e°l Vh°c°YVc°\Zgd[°W°ZV °c°\°j e#

.
!)]Σ

G = ghX] dc^7Zgzh] h^&) &(/
L] Vi^h^hV^Y^] Zg^VWdj i^6kg/] Vb ^h^i] Z^kZgn^deedh^Z^d[!] Vi^h^hV^Y^c^i] Z^egZXZY^c^\
kZghZ VWdj i Adi#6kg/] Vb gzb V^cZY !!] X] b ZVch/ i] Z dcZ I] d XVb Z [gdb i] Z
di] Zgh^YZ^d[i] Z^gkZg^dg^Vh^G^#^NZ] j YV^Zrea/^ch!^ i] Z^dcZ^I] d^hiVcYh^Vh^YZ! ^c
deedh^dc id i] Z g^hi d[i] Z I dg^ 7Zgzh] h GVVWW])' /-!#e Z^I] ZgXVhZ!
c^Y^XViZh^i] Vi^6kg/] Vb ^kZY^c^hda/i^dc!^egzhZgkZY^] h^dl c^Y^hi^c^Xi^kZ^X] Vg/XiZg^VcY
I Vh^g^cdl cZY^Vh^dcZ^I] d^hZZ^ h^hda/i^dc#

e I] Vi I Vn^Y^Y akZ c^ hda/i^dc4
L] nYdZh [ZZa^hda/iZY g^] i cdl 4

Hdb Zi] c^h^b ^gXVc^W^ig^XZY^c^b dYZg^i^b Zh#GVk^@dd^!^I] Zc^] Z^VggkZY^c^hg/Za
I gpiZ!^ I] Zg^h^cd^dcZ!^ndj c^dgd^!^I ^I^ I] db ^>XVc^h] Vg^b ni] dj \] ih!^I] d^h^VW^id
Xdb eg] ZcY^b n^k^Z^I ed^ci^VcY^i] h^I ZVgZh^b Z^g^Vian#
: kZc^b dg^XVcY^Y^I Vh^i] Z^a/iZ^GVWW^?dhZe] ^9dk^HdadkZ^X] ^#CZVgi] Z^W^c^c^d[!] h
[Vb dj h^ZhhVn^I] Z^AdcZan^B Vc^d[; V^I^!] Z^I g^IZh!^hiVg an/ >Vb ^adcZan^#=Z^Xdc^i^c^j Zh!^ >
Vb ^adcZan^W^XVj hZ^Vi^i^b Zh^>[ZZag^ZXiZY^VcY^i] g hi^Vi Vn^W^h^ZkZg^WdYn!^cdi^ZmXj Y^c^\
b n^b dhi^ci^b ViZ^[gZcYh!^VcY^i] Z^I dg^h^d[i] Z^ehV^b hi!^ B n^[Vi] Zg^VcY^b n^b di] Zg] V^kZ
[dghV^ Zc^b Z!^g^c^f^j ^Z^d[iZc^c^b n^ZVg^a^ Z^i] Z^ea/^ci^kZ^Xdd^c^d[i] Z^ij g^aYdkZ^#^I] h
h^Zmig/dg/ c^Vgn^d^c^j V^Z#
6i^i^b Zh^d[^adcZac^Zhh!^>] V^kZ^[dj cY^g^Vi^hda^XZ^c^i] ZhZ^eVhhV^Zh#I] Zn^ida^b Z^>I Vh
cdi^VadcZ^c^[ZZac^V^VadcZ^#Di] ZgeZde^] VY^WZc^] Zg^W[dg^b Z#
AdcZac^Zhh^VcY^; V^I^!^8dkZcVci^VcY^8dckZghVi^dc!^7Z] VVadiZX] Vi^*, - %#
] iieh\$ I I #gVW^h^VX^ h#dg^\$XdkZcVci^"XdkZghVi^dc\$WZ] VVadiZX] V\$adcZac^Zhh^VcY^[V^I] \$

GVWW^HVX^ h^[ZZh^Xdb [dg

