

X, ',4! : K(!2,3,#&,\$.(-0H!?)**BCH!!V#2+/.2#!-/!c+#.!1##'!8/%%#.-,'=#2!/!.h1#'2/.4//G!,.G!
.#<'/2\$=#.\$#_!Z,-<',5=W=.6!/'!.=4=5,-.6gi_!;#--=.6!1#'2/. ,5H!J%#'\$,\$.!K/<'..5!/0!7=#-4=\$2H!B?AC! UAE
U]H

(

2,3,#k,\$.(-0(!N=<!k(!" ,R=2!Kc!?=.!+'#+C!" /\$-/'2^!#%+,-4=\$!0/\$<2!/ .!,6#.\$3!=2!+##\$#-R#G!,2!+/2=-R#53!,2!
#%+,-4=\$!0/\$<2!/ .!0##5=.62!!

(

2,3,#k,\$.(-0

: ##-!#6<5, '53!S=-4!?\$<'!# .-53C!T< ./ '!0' / %!4=2- /'=\$, 553!#b\$5<G#G!&, \$d6' / < .G!S4 / !=2! =. -# #2-#G! =. !
6', G<, -#!2-<G3!!)*)E)9H!

!

<=>*=(! =kk, ?, 0! ; , 7=!1 #2=G# . -, 5!M\$4/5, '2!1' / '6', %!
: ##-!#6<5, '53(!= .0 / '%, 553(!S=-4!2-<G# . -! =. -# #2-#G! =. !, \$, '##'! =. !+23\$4/5/63m. #<' / 2\$=#. \$##!)*)E / . 6 / =. 6H!
!!

<=>*=(! =kk, ?, ! : \$Z, =!' ` b+5 / ' , - / '3!1' / '6', %!
: ##-!&=S##d53(!= .0 / '%, 553(!S=-4!0='2-E3#, '!2-<G# . -2!0' / %!4=2- /'=\$, 553!#b\$5<G#G!&, \$d6' / < .G2!S4 / !, '#!
=. -# #2-#G! =. !6', G<, -#!2-<G3(!)*)E)A!, .G!)*)AE)H!

(
<=>*=(! =kk, ?, ! : , 32! : =. / '=3! : #. - / '!
: #!% / . -453(!= .0 / '%, 553(!S=-4!< .G# '6', G<, -#!2-<G# . -2! / 0!\$ / 5 / '(!) *ALEAF!, .G!) *AFE) *!

(
2+#@+# / (A. \$@, #>\$*B(H, G+#* ' , . *(=C(6>B%E=k=?B0!
: #. - / '#G!0 / <'!< .G# '6', G<, -#!-4#2-2!2-<G# . -2(!)!, 2!+'=%, '3!, GR=2 / '!, .G!)!, 2!#, G# '!?-S / !0= .-24#G!M+'=. 6!
)**Ln!-S / !0= .-24#G!M+'=. 6!)**FCH!!1'=%, '3!, GR=2##!S / .! ; / 'G / .! J 55+ / '-1' =W#!?G#+, '-%# . -, 5!4 / . / '2C! =. !
M+'=. 6!)**FH!
Y. G# '6', G<, -#! #2#, '\$4!, 22=2-, . -2!?)E]m2%#2-#'(!X, 55!)**@EM+'=. 6!)*AAC!

(

A. \$@, #>\$*B(=C(6, . . . Bk@+. \$+(! , , * , # (C=#(! =? . \$*\$@, (: , '#=>%\$, . %, Q(H, G+#* ' , . *(=C(6>B%E=k=?B0!
Y. G# '6', G<, -#! =. G#+# .G# . -!2-<G3!+' / T#S-2!?)!G<'=. 6!, \$, G#%=\$!3#, '!)* *]m)**Dn!)!G<'=. 6!, \$, G#%=\$!3#, '!
)**9m)**]n!A!G<'=. 6!M+'=. 6mM<%%#')**9C!

(
A. \$@, #>\$*B(=C(I=L+Q(! =? . \$*\$@, (: , '#=>%\$, . %, (7+3=#+*=#B(H, G+#* ' , . *(=C(: , '#=k=?B0!
> / . / '2!< .G# '6', G<, -#!+' / T#S-!?'X, 55!)**E!M+'=. 6!)* *]CH!
Y. G# '6', G<, -#! #2#, '\$4!, 22=2-, . -!?'@!4'2mS##dn!M+'=. 6EX, 55!)* *]CH!
M<%%# '!Y. G# '6', G<, -#!V#2#, '\$4!1' / '6', %!2-<G# . -!?'*!4'2mS##dn!M<%%#')**ACH!
>=64!M\$4 / 5!M\$=#. \$#! #2#, '\$4!2-<G# . -!0' / %! [/ S , !8=-3^2!8=-3!>=64!2\$4 / 5!?'@!4'2mS##dn!X, 55!AFFFEM<%%# '!
)***CH!!
\ S / !2-<G# . -! #2#, '\$4! =. -# ' .2!0' / %! ; #'% , . 3!?'*!4'2mS##dn!X, 55!AFFFEM+'=. 6!)* *]CH!
: #G=\$, 5!2-<G# . -!G / =. 6!2<%%# '! #2#, '\$4!?'*!4'2mS##dn!M<%%# '!AFFFCH!

!

(

28 : 8 J0(- : H(- N - JH0!

!

: =. G(!7', =. !, .G!7#4, R= / !+ / 2-G / \$- / ' , 5!0#55 / S24=+(!> , 'R, 'G!Y . =R# '2=-3(!) !3#, '2!= . . =. 6!K<53!)**FH!
8# '=-0=\$, -#! / 0! " =2= . \$= / . (!7 / d!8# . -#!0 / '! \ #, \$4= . 6(!> , 'R, 'G!Y . =R# '2=-3(!) **FH!
Z / % =. , -#G!0 / '! : , 'f<, .G!J S, 'G!0 / '! ` b\$#+= / . , 5!JGR=2= . 6!, .G!8 / < . 2#5= . 6(!> , 'R, 'G!Y . =R# '2=-3(!M+'=. 6!)**L!
? / . #! / 0!A)D! / . % =. ##2!, \$ / 22!-4#!Y . =R# '2=-3C!
X#55 / S24=+' # \$ =+ # . -(! : \$ " / . . #55!M<%%# '! [. 2=-<#!= . !8 / 6 . --R#!Z#<' / 2\$=#. \$#!(Mf<, S!Q, 55#3(!8 J (!) **9H!
\ , R#5! J S, 'G! # \$ =+ # . -(!U=2\$ / . 2= . !M3% + / 2<% / / . ! ` % / = / . (!) **AH!
X#55 / S24=+' # \$ =+ # . -(! : \$ " / . . #55!M<%%# '! [. 2=-<#!= . !8 / 6 . --R#!Z#<' / 2\$=#. \$#!(" , '-% / <-4!8 / 55#6#(!Z>(!
)**AH!
84, + # '2! ; ' , G<, -#!M-<G# . -! \ , R#5! J S, 'G! # \$ =+ # . -(!M / \$ -3!0 / '!Z#<' / 2\$=#. \$#!() ***H!
[/ S , m1 #2=G# . -, 5!X#55 / S24=+' # \$ =+ # . -!AFFBE) **A!?) *E)D!0#55 / S24=+2!6=R# . !#, \$4!3#, '!, % / . 6!, 55!# . -# '=. 6!
6', G<, -#!2-<G# . -2! =. !-4#!Y . =R# '2=-3CH!!
7# . T, % =. !X', . d5= . !M\$4/5, '!AFFAE

h\4#'/5#'/0!-4#!,%36G,5,!-.!,.-4' /+/% /'+4=W=.6hi!!M3%+/2=<%!/.!-4#!,%36G,5,!-.!2/\$=,5!\$/6.==/.!(
J%#'\$,!.!123\$4/5/6=\$,5!M/\$=#-3!,. .<,5!%##=-.6(!: ,3!)**]H!

!

hZ#<',5!232-##%2!0/'!2/\$=,5!\$/6.==/.!0'/%!%/R#%#. -hi!Y.=R#'2=-3!/0!Z/'-4!8,'/5=. ,m" <d#!Y.=R#'2=-3!
,<=-2%!'#2#,'\$4!\$#.-#'(!J+'-5!)**]H!

!

hZ#<',5!232-##%2!0/'!2/\$=,5!+##\$#+-/.!0'/%!%/R#%#. -hi! (!
Y.=R#'2=-3!/0!1#..235R, .=(! : , '\$4!)**]H!

!

hM/\$=,5!\$/6.==/.!0'/%!%/R#%#. -!2=-%<5=!#% /-/. (!+#'2/ .,5=-3(!, .G!,.-4' /+/% /'+4=W=.6hi!!
(!"#+,'-#%.-!/0!123\$4/5/63(!>,'R,'G!Y.=R#'2=-3(!X#&'<,'3!)**]H!

!

hZ#<',5!232-##%2!0/'!#\$/6.=W=.6!#% /-/.!,.G!+#'2/ .,5=-3!0'/%!%/R#%#. -2hi! !
M3%+/2=<%(!7,55#-!X',.d0<'-(! ;#'% ,.3(!K, .<,'3!)**]H!

!

hN#2=/ .!2-<G=#2!/0!#% /-/.!#\$/6.==/.! .!4<% ,.2_!0,\$#2!,.G!&/G3!%/R#%#. -2hi!
H!!1'=. \$#-/.!Y.=R#'2=-3!!!M#+-#%&#'(!)**9H!

!

I.>*\$**\$=.>0!

(

8A; J4 - ! 2(- :H(04J)I! 4(

(

<=>*=(!=kk,?,l(K+3,kk\$(