M=NP'(I2'L.G!3*P#0>!%0#0>!(&!-*%0#0!$(!K#!3*7#!(&!%0#7>!*!J*.0#!&#-(&7!(&!0$*$#3#'$!$(!L#$
!J.0#!(&!J&*%7%.#'$!-.*23!?*27!(&!*??&(O#7!KG!$C#!-2$GU

M@NI('0?2&#0!$(!7#J&*%7!$C#!-2$G!KG!L#$$2'L!*!J*.0#!(&!J&*%7%.#'$!-.*23!*..(I#7!(&!?*27U

MVNC*0!?(00#002('>!-%0$(7G>!(&!-('$&(.!(J!?&(?#&$G!(&!3('#G!%0#7>!(&!$(!K#!%0#7>!KG!$C#!-2$
'7>!2'$#'72'L!$(!7#J&%7!$C#!-2$G!(&!$(!-('-#*.!$C#!?&(?#&$G>!7#.2O#&0>!(&!-*%0#0!$(!K#!7#.2O#&
.#00!?&(?#&$G!$C*'!$C#!*3(%'$!J(&!IC2-C!$C#!?#&0('!&#-#2O#0!*!-#&$2&#-#2?$U!

MWN%$C(&2X#7!$(!3*P#!(&!7#.2O#&!*!7(-%3#'$!-#&$2JG2'L!&#-#2?$!(J!?&(?#&$G!%0#7>!(&!$(!K#
%0#7>!KG!$C#!-2$G!*'7>!2'$#'72'L!$(!7#J&*%7!$C#!-2$G>!3*P#0!(&!7#.2O#&0!$C#!&#-#2?$!I2$C(%$
-(3?.#$#!P'(I.#7L#!$C*$!$C#!2'J(&3*$2('!('!$C#!&#-#2?$!20!$&%#U!

MANP'(I2'L.G!K%G0>!(&!&#-#2O#0!*0!*!?.#7L#!(J!*'!(K.2L*$2('!(&!7#K$>!?%K.2-!?&(?#&$G!J&(3!*'
(JJ2-#&!(&!#3?.(G##!(J!$C#!-2$G!IC(!.*IJ%..G!3*G!'($!0#..!(&!?.#7L#!$C#!?&(?#&$GU!(&

MBNP'(I2'L.G!3*P#0>!%0#0>!(&!-*%0#0!$(!K#!3*7#!(&!%0#7!*!J*.0#!&#-(&7!(&!0$*$#3#'$!$(
-('-#*.>!*O(27!(&!7#-&#*0#!*'!(K.2L*$2('!$(!?*G!(&!$&*'032$!3('#G!(&!?&(?#&$G!$(!$C#!-2$G>!20!
.2*K.#!$(!$C#!-2$G!J(&!*!-2O2.!?#'*.$G!(J!'($!.#00!$C*'!YW>ZZZ8ZZ!*'7!'($!3(&#!$C*'!Y:Z>ZZZ8ZZ>!?.%
$C&##!$23#0!$C#!*3(%'$!(J!7*3*L#0!IC2-C!$C#!-2$G!0%0$*2'0!K#-*%0#!(J!$C#!*-$!(J!$C*$!?#&0('8!4!
?#&0('!O2(.*$2'L!$C20!0#-$2('!0C*..!*.0(!K#!.2*K.#!$(!$C#!-2$G!J(&!$C#!*$$(&'#G0Q!J##0!*'7!-(0$0!(J!*
-2O2.!*-$2('!K&(%LC$!$(!&#-(O#&!*'G!0%-C!?#'*.$G!(&!7*3*L#08

123324;4))*$<$()'%/$+#5)8+=)8'(5-)%('$:50

M*N[C#!-(&?(&*$2('!-(%'0#.!3*G!K&2'L!*!-2O2.!*-$2('!%'7#&!$C20!0#-$2('!*L*2'0$!*'G!?#&0('
IC(!C*0!O2(.*$#7!(&!20!O2(.*$2'L!)#-$2(;==;Z=Z8!

MKN!"#$%&'()*(+,$-.#/(+/,'%&'0

M:N 4!?#&0('!3*G!K&2'L!*!-2O2.!*-$2('!*L*2'0$!*!-2$G!-('$&*-$(&!J(&!*!O2(.*$2('!(J!)#-$2(;==;
Z=Z!J(&!$C#!?#&0('!*'7!J(&!$C#!-2$G8![C#!*-$2('!0C*..!K#!K&(%LC$!2'!$C#!*'3#!(J!$C#!-2$G8![C#!
-$2('!3*G!K#!7203200#7!('.G!2J!$C#!-(%&$!*'7!$C#!-(&?(&$2('!-(%'0#.!L2&2$$#'!-('0#'$!$(!$C#!
7203200*.!*'7!$C#2&!&#*0('0!J(&!-('0#'$2'L8

M=N4!-(?G!(J!$C#!-(3?.*2'$!*'7!I&2$$#'!720-.(0%&#!(J!0%K0$*'$2*..G!*..!3*$#&2*.!#O27#'-#!*'7
2'J(&3*$2('!$C#!?#&0('!?(00#00#0!0C*..!K#!0#&O#7!('!$C#!-2$G8!S'!*..!0%-C!*-$2('0>20#&0?('!
$C#!-2$G!0C*..!K#!3*7#!KG!.#*O2'L!*'!-(?G!I2$C!$C#!-2$G!-.#&P8![C#!-(3?.2*'$!0C*..!K#!J2.#7!2'!
-*3#&*>!0C*..!&#3*2'!%'7#&!0#*.!J(&!*$!.#*0$!AZ!7*G0>!*'7!0C*..!'($K#!0#&O#7!('!$C#!7#J#'7*'$!
%'$2.!$C#!-(%&$!0(!(&7#&08![C#!-2$G!3*G!#.#-$!$(!2'$#&O#'#!*'7!?&(-##7!I2$C!$C#!*-$2('!I2$C2'!AZ!
7*G0!*J$#&!2$!&#-#2O#0!K($C!$C#!-(3?.*2'$!*'7!$C#3*$#&*.!#O27#'-#!*'7!2'J(&3*$2('8

M@N