

!"#\$%&' ' ()\$\*&+, (, \$-+. ()+ /012/\$

!

"#!\$%&&' (!)\*+\*,!-. ' !/(01(2&!3%#4' 4!+5!6#-' (#7!2-!+8!#0#/(036-7!2#4!70962:!' #-' (/67' 7!6#!-. ' !; ' <!  
=0(>!&' -(0/0:6-2#!2(' 2?!@07-7!2#4!"#-' (#7!6#9:%4' 4A!

34!567 (.0\$8069(5:%4; < (=)\$? @A!

!"#\$%&' () \*%+%-./-0+1'2343!

BC70#!DO::! 1' !O3!E(-7!2#4!\$96' #9' 7!

@07-!F(12#6G2-60#A!; [0#/\(036-!H6#2#9' !H%#4!;](#) HHJ!

KOL!M6-:' A!"&/29-!E#2:C767!"#-' (#!

N:6G2L' -. !D. 20' GP!\$:0<' C!67!2!Q27-' (7!6#!R%L:69!E4&6#67-(2-60#!92#4642-' !2-!R29' !S#60' (76-C?!\$. ' !  
. 0:47!2!T29. ' :0(!O3!E(-7!4' 1(' ' !6#!Q277!DO&&%#692-60#7!2#4!E40' (-676#1?!\$. ' !. 27! U-' #760' !  
/(03' 7760#2:!' U/' (6' #9' !6#!-. ' !N4%92-60#!36' :4,!2:0#1!<6-. !6#-' (#7. 6/7!2-!M. ' !E7/' #!"#7-6-%-' !V!  
H%#4!30(!##002-60#,!N33' 9-60' #' 77,!W' 2(#6#1!2#4!B677' &6#26#22#W' 24W' 771q. W'





]6#2C!Q0-. 2!67!<0(>6#1!-0<2(4!2!Q27-' (!03!T%76#' 77!E4&6#67-(2-60#!6#!\$-(2-' 169!Q2#21' &' #-!  
3(O&!W%L6#!\$9. 00:!03!T%76#' 77,!R29' !S#60' (76-Cf!' U/' 9-' 4!1(24%2-60#67!Q2C!)\*++?!]6#2C!. 0:47!2!  
4' 1(' ' !27!Q27-' (!03!D0&&' (9' !6#!Q2#21' &' #-!2#4!2!T29. ' :0(!03!D0&&' (9' !6#!H6#2#9' !2#4!  
E990%#-6#1!3(O&!Q&&L26!S#60' (76-C?!@' !<0(>' 4!27!2!L%76#' 77!2#2:C7-!30(!T29><0(>7!\$-%4607!6#!  
)\*\*b!2#4!0#!2#!2924' &69!/(!0d' 9-!27!2#!2#2:C7-!03!2!&' (1' (7!2#4!29Z%676-60#7!927' !7-%4C?!

M. ' !102:7!03!; HHY7!"&/29-!E#2:C767!"#-' (#7!<27!-0!&' 27%(' !-. ' !02:%' !03!; HH!/(01(2&7!2#4!  
' &/O<' (!; HH!9:6' #-7!-0!&O(' !' 33696' #-:C!29. 6' 0' !-. ' 6(!&67760#7?!]6#2CY7!(O:' !<27!&O(' !309%7' 4!  
0#!7-2-67-692:!2#2:C767!2#4!42-2!' #- (C?!@' !<27!(' 7/O#76L:' !30(!9(' 2-6#1!2!42-2L27' !<6-. !R600-!  
-2L:' 7!<. 69. !. ' !%7' 4!30(!6#/%--6#1!42-2,!90#4%9-6#1!7-2-67-692:!2#2:C767!2#4!9(' 2-6#1!1(2/. 7?!@' !  
<27!2:70!(' 7/O#76L:' !30(!4' 761#6#1!-. ' !Z%2#-6-2-60' !27/' 9-7!03!-. ' !7%(0' C!-. 2-!<0%:4!L' !' 27C!  
&2#6/%:2-' 4!2#4!-(2#7:2-' 4!6#!. 67!7-2-67-692:!( ' /O(-6#1?!!

K16' ; +, \$L9()7=>\$CA!



F%-(' 29. !R(01(2&!2#4!R2(>!D:' 2#%/?!@' (!' 4%92-60#2:!/ (Od' 9-7!6#9:%4' !-. ' !(' 90#7-(%9-60#12#4!  
( ' #29-&' #-!03!9(6&' !79' #' 7!2#4!2!\$%/( ' &' !DO%(-!927' !-O!-. O(O%1. :C!&27-' (!90#9' /-7!03!LO-. !  
2!9(6&6#2:!6#0' 7-6!2-60#12#4!9(6&6#2:!:2<?!

e24' ' #' !27767-' 4!<6-. !-. ' !900(46#2-60#12#4!&2(>' -6#1!03!7/' 962:!' 0' #-7,!<0(>7. 0/7,!9:277' 7!  
2#4!7%0' C6#1!( ' :2-' 4!-0!900>6#1,!#%-(6-60#,!1(' ' #:!606#1,!36-# 77,!2#4!' #' (1C!2#4!<2-' (!  
90#7' (02-60#?!\$ . ' !2:70!29-' 4!27!-. ' !O(12#6G2-60#7!7!62670#!<6-. !DO(L6#!@6:!!H2(&7!E446-60#2::C,!  
7. ' !7%/0(-' 4!2!-' 2&!<6-. !/:2#-6#1!2#4!. 2(O' 7-6#1!2-!2!#' <! (003-0/!(L2#132(&!2-'!#-' (02:' !  
' (' #,!X@NBD0Y7!# ' <' 7-!/(Od' 9-?!!

? 6406)\$%060>\$? CA!  
5/.67-%+8'5/+ /87\* 7+-1'2343!  
W%L6#!\$9. 00:!03!T%76#' 77!  
@07-!F(12#6G2-60#A![\[676#1!M64' !D2/6-2:!](#)  
KOL!M6-:' A!DO&&%#692-60#7!"#-' (#!

E7!2!7-%4' #-!03!-. ' !W%L6#!\$9. 00:!03!T%76#' 77!2-!R29' !S#60' (76-C,!Q2:. 2(!\$. 2. !/:2#7!-0!1(24%2-' !  
6#!B' 9' &L' (!) \*+\*!<6-. !2!Q27-' (7!03!T%76#' 77!E4&6#67-(2-60#!6#!Q2(>' -6#1!Q2#21' &' #-!E:70!2!  
1(24%2-' !03!S?]?!R2-' !DO::' 1' !03!N#16#' ' (6#1,!` 2# /2-!S#60' (76-C!6#!` %d2(2-,!#462,!Q2:. 2(!. 0:47!  
2!T29. ' :0!03!M' 9. #0:01C!4' 1(' ' !6#!Q' 9. 2#692:!!N#16#' ' (6#1,!(' 9' 60' 4!Q2C!)\*\*5!Q2:. 2(!7!  
9%(( ' #-!/(Od' 9-7!6#9:%4' !-<0!-' 2&!(Od' 9-7!( ' :2-6#1!-0!-. ' !' #-(' /(' #' %(62:7-%4C!03!HO%(7Z%2(' !  
2!70962:!!# -<0(>6#1!90&/0# #' #-!03!M<6-' (,!2#4!2!/(Od' 9-!0#!-. ' !E336:62-' !Q2(>' -6#1!\$6-' ?!@' !. 27!  
2:70!7/' 2( . ' 24' 4!&2(>' -6#1!( ' 7' 2(9. !0#!70962:!!# -<0(>6#1!7' (069' 7!07?!' &26:6#!) \*\*b?!@' !. 0:47!  
' U/' (6' #9' !27!2!72:' 7!' U' 9%-60' !30(!\$2#1' ' !\$2:' 7!3(O&!) \*\*5!2#4!27!2#16#-' (#!<6-. !  
@6M' 9. N:27-0&' (7!6#!E. &' 42L24,!#462!6#!) \*\*c?!@67!6#-' (' 7-7!6#9:%4' !' #-(' /(' #' %(62:10' #-%(' 7!  
4616-2:!!&2(>' -6#1,!2#4!/(04%9-!4' 0' :0/&' #-?!

Q2:. 2(!7!(0:' !27!2!90&&%#692-60#7!6#-' (#!6#00:0' 4!&26#-26#6#1!&' 462!67-7,!/( ' 77!9:6/ /6#1!:017,!  
4' 0' :0/&' #-!42-2L27' 7?!@' !2:70!27767-' 4!<6-. !4' 0' :0/6#1!2!(2#1' !03!&2(>' -6#1!&2-' (62:7!  
90#4%9-6#1!( ' 7' 2(9. !70&' !' 0' #-!/:2#6#1!2:0#1!<6-. !-. ' !&26#-' #2#9' !03!-. ' !O(12#6G2-60#7!  
<' L76-' !2#4!70962:!!&' 462!76-' 7?!!

06/' 1+(\$%.6. (+>\$CA!  
FO\* \* "+%&/-%0+'=-")%7,1'2344!  
BC70#!DO::' 1' !03!E(-7!2#4!\$96' #9' 7!  
@07-!F(12#6G2-60#A![\(' C7-0#!T2>' \(C!](#)  
KOL!M6-:' A!"#-' (#' -!Q2(>' -6#1!2#4!R[!"#-' (#!

K27&6#!\$-2-' #!67!2!7-%4' #-!03!-. ' !BC70#!\$9. 00:!03!E(-7!2#4!\$96' #9' 7!2-!R29' !S#60' (76-C?!\$. ' !  
/:2#7!-0!1(24%2-' !6#!Q2C!)\*\*++!2#4!67!<0(>6#1!-0<2(47!2!T29. ' :0!03!E(-7!4' 1(' ' !6#!  
DO&&%#692-60#7,!Q' 462!2#4!E(-7?!@' (!/(03' 7760#2:!' U/' (6' #9' !6#9:%4' 7!<0(>!<6-. !-. ' !  
"#-' (#2-60#2:!!E<2(47!` (0%/ ,!WWD!27!2!DO&&%#692-60#7!"#-' (#!6#1) \*\*+,!2#4!-. ' !; ' <! =0(>!D6-C!

E-!` (' C7-0#;!K27&6#' !309%7' 4!0#!1(0<6#1!2#4!6&/ (006#1!-. ' !0#:6#' !/(' 7' #9' !03!-. ' !BOP` 004!  
T(O<#6' !:6#' !2#4!# ' <!` %- ' #PH(' ' !:6#' !03!L2>' 4!10047?!\$. ' !<0(>' 4!<6- . !-. ' !X' L76-' !\$2:' 7!  
\$/ ' 962:67-!-0!( ' #002-' !` (' C7-0#Y7!<' L/21' !2#4!9(' 2-' !90#-' #-!30(!L:017!2#4!<6- . !-. ' !H%:36::&' #-!  
M' 2&!-0!7-( ' 2&:6#' !0/' (2-60#7!2#4!6#9(' 27' !9%7-0&' (!02:%' ?!K27&6#' !2:70!. 24!-. ' !0//0(-%#6-C!  
-0!4' 0' :0/!2!R[!92&/261#!30(!-. ' !)\*+\*!@0:642C!` 63-!\$' 270#!2#4!00' (7' ' !70962:!!&' 462!&2(>' -6#1!  
92&/261#7?