



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

M7%! %A!' 4@6%/!&#%5!A, 0!, . . #4. 3%@!' 9!/7%!NBB23%!#B!O3, @%&23!OBB, 2(0!, /!/7%!%. @!#B!N3/#' %(H!
P%!(%, 37%@!#4!/#!, 55!-%. , /#(0!/#16%/!B%#@' , 3K!B(#&!7%2!(%0E%3/2\$%!.@E, (/&% . /0!# . !A, 90!2. !A7237!
/720!. %A!' 4@6%/!&#%5!A255!, BB%3!/7%2(14. 2/0H!M7, . K!9#4!/#!, 55!B, 345/9!, . @!0%. , /#(0!A7#!E, (/232E, /%@!
2. !/720!(%?4%0/H!Q#4!3, . !B2. @!#4(!: ;%34/2\$%-4&&, (9!#B!/7%!(%045/0!#B!/7%!B%#@' , 3K!A7237!#4/52. %0!
&, J#!(3#. 3%(. 0!E%(&%, /2. 6!, 3(#00!#4(!3, &E40!, 0!A%55!, 0!4. 2/00E%32B23!?4%0/2#. 0!2. !, !0%E, (, /%!
, /!, 37&%. /!/#!/720!(%E#(H!"#\$%&'()*\$"(%\$+##, \$-./). +&/#-\$/0\$1#, (/0)%\$20)\$*0&)\$#3.#4\$(-, -\$4#\$40&5-
75#(%#\$20)4(-)\$/\$0\$*0&)\$8055#(9&#%\$. \$*0&)\$#%7#8/. 3#\$&, ./%:\$(%\$4#55H!

M7%!04&&, (9!A, 0!, 50#!E(#\$2@%!/#!7%!F(#\$#0!A7%. !7%!&!A2/7!/7%!8-: <!5, 0!/A%K!H!R!, &!E5%, 0%@!
/#!0, 9!/7, /!/7%!@2034002#. !A, 0!\$%(9!E(#@43/2\$%!, . @!A%16(% , /59!5##K!B#(A, (@!/#!#4(!&%/2. 6!A2/7!
F(%02@%. !/M, /%!, . @!F(#\$#0!G, 66%/9!, /!/7%!%. @!#B!/720!&#. /7!A7%(!A!A255!3#. /2. 4%!/720!2&E#(/, . /!
@2, 5#64%#H!

)H!.\$/0--""*122\$03-/"3-(*

M7%!8-: <!7, 0!' %%. !2. 3(%@2' 59!' 409!B2552. 6!2. !E#02/2#. 0!B#(! #/7!0/, . @2. 6!, . @!0E%32, 5!3#&&2/7%0H!
P%!, (%!7, EE9!/#!(E#(!/7, /!A%!, (%!, EE(#, 372. 6!/7%!%. @!#B!/720!, 0K!!, 0!A!B255@!#\$(!S*!-!>!, 3, . /!
E#02/2#. 0H!N. !/7%!, @!7#3!3#&&2/7%!B(#. /!A%!7, \$%, EE#2. /%@B, 345/9!&%&' %0!/#!0%(\$! , 0!52, 20#. 0!
/#!/7%!8, 345/9!-/ , BB!<#&&2/7%!U8, ' 2#!@%5!F2%(!=V%!/!-37#5>!, . @!W, 37, (9!<H!R0%. 7#A%(!=G-->!), . @!
B#(&%@!, !F#5239!<#&&2/7%!1!, 0!0466%0/0@!' 9!5, 0/19%, (Y0!Z%0#54/2#. !)LDL)!U+, . 2%5!M2(#. %!-G-->!
[%BB(%9!Z#5, . @!-G-->![# . /7, . !-. #A!=-32%. 3%>!G, . !! %5#65, \$%3!-\ +O>!, . @!O5520#. !Q#4. 6!-O(!/!] !
+%026. >XH!M7%137, (6%!#B!/7, /13#&&2/7%!A255!' %!/#!(%\$2A!@#34&% . /0!#4/52. 2. 6!E#52320!6#\$(. 2. 6!
-%. , /%#!E%(/2#, 0!, . @!/7#0%!#B!#4(!3#&&2/7%0!, . @!&, K2. 6!(%3#&&%. @, /2#. 0!B#!(2&E(#\$%&%. /0!
' %62. . 2. 6!A2/7!/7%!<#. 0/2/4/2#. H!M7%0%!(%3#&&%. @, /2#. 0!A255!/7%. !' %!E(%0%. /%@!/#!/7%!-%. , /%!, . @!
, @%@!, 0!, 6%. @, !2/%&0!B#!(, EE(#\$, 5!' 9!/7%!, EE(#E(2, /%!6#\$(. 2. 6!' #@2%0H!

P%!7, \$%, 50#!, EE#2. /%@B, 345/9!&%&' %0!/#!0%\$(, 5!3#&&2/7%0!B#(&%@!' 9!/7%!4EE%(!, @&2. 20(/, /2#. H!
M7%0%12. 354@%!NE%. !: @43, /2#. , 5!Z%0#4(3%0^OBB#(@, ' 5%!: @43, /2#. , 5!Z%0#4(3%0!<#&&2/7%!137, 2(%@!
' 9!F(#\$#0/0!8%55#A!M7%@, !+, . 2%50DZ, 3%!U-7%(2!#7. 0#. !=G-->!_%(2!M#' 2. !=G-->!, . @!-2&#. !
G#5#A%2K#!-\ +O>XH!F(#\$#0!G, 66%/9!, 50#!, 0K%@!/7%!8-: <!/#!, EE#2. /!/7%(!B, 345/9!&%&' %0!/#!/7%!
3#&&2/7%!E(#\$2@2. 6!2. E4/1#. !/7%!C%#D' 4@6%/!E(#E#0, 5!, . @!A%!, (%!E5%, 0%@!/#!0, 9!/7, /!\ %/7%!
` , , (@%!=32%. 3%>!Z#9!G%2@%5' %6!=1 402. %00>!, . @!V23/#!(-/ , /%(!=G-->!7, \$%, 6(%%@!/#!0%(\$!2. !/7%0%!
2&E#(/, . /!(#5%0H!O@2/2#. , 59!1A!A%(!, 0K%@!' 9!-%. 2#!V23%F(#\$#0/![, . %!<, 002@9!/#!B#(&!-, ' ' , /23, 5!

<#&&2/%%!/#!, @(%00!0#&#!#B!7%!%; 20/2. 6!@203(%E, . 32%0!A2/72. !a. 2\$(02/9!E#5232%0!# . !/720!/#E23H
Q#4!A255!7%, (!&#(#!, ' #4!/720!3#&&2/%%!07#(/59!A7%. !A%!E(%0%. !/7%!-, ' ' ,/23, 5!<#&&2/%%!
Z%0#54/2#. !5, /%(!2. !/7%!&%%/2. 6H!

R!@!52K%!/#!7, . K! 55!B, 345/91!%0E%32, 559!/7#0%!A7#!, (%!, 50#!-%. , /#(0!B#(!, 6(%%2. 6!/#!0%(\$%#!# . !/7%0!
3#&&2/%%0H!M720!%. 04(%0!#4(!0/%. 6/7!2. !07, (%@!6#\$(. , . 3%!, /!#4(!4. 2\$(02/9H!R!, 50#!A#45@!52K%!/#!
/7, . K!/7%!: ; %34/2\$%!<#&&2/%%!&%%&' %(0!A7#!A#(K%@!/2(%5%0059!2. !/7%!, EE#2. /&%. /0!E(#3%00!, 0!
&437!#B!/720!/, 0K!2. \$#5\$#@!B#55#A2. 6!4E!A2/7!7%!, EE#2. /%%0!, . @!7423K59!3#&2. 6!4E!A2/7!, 5/!(. , /%!
B, 345/9!&%%&' %0!/#!B255D2. !, . 9!(&%, 2. 2. 6!\$, 3, . /!0E# /0H!` 2\$%. !/7%!\$#54&#!#B!, EE#2. /&%. /0!, . @!#/7%(!
E(%002. 6!' 402. %00!A%!7, @!/#!, @@!, @2/2# . , 5!8- : <!&%%/2. 60!/#!7%!%; 20/2. 6!037%@45%HR!/A, 0!, !@2BB2345/
/, 0K!1' 4!/A%!@2@!2!A2/7!6(% , /!6(#4E!%BB#(/H!M7, . K!9#41!, 55H!

bH!. /2+(*4'5"-6*3)*4"7+#0-6*

8#55#A2. 6!c-a!F#523%!<72%B!I , (/!M7#&E0#. Y0!E(%0%. /, /2#. !, /!7%!8, 345/9!-%. , /%!&%%/2. 6!2. !
-%E/%&' %(1!0\$\$(, 5!-%. , /#(0!, EE(#, 37%@!40!A2/7!\$, (2#40!B#55#AD4E!?4%0/2#. 0!(%6, (@. 6!0, B%/9!, . @!
0%34(2/9!#. !3, &E40H!M7%!/#E230!' (#, @59!B%55!4. @%(!7(%%1/7%&0!#4/52. %@!' %5#A#<72%B!M7#&E0#. !
7, 0!E(#\$@%@!@%/, 25!/#!7%&1!, . @!R!7#E!7, /!9#4!A255!B2. @!7%&!7%5EB45H!F5%, 0%!07, (%!/7%&!A2/7!9#4(!
(%0E%3/2\$%!4. 2/0H!

;(<\$=&, :\$> . -#:\$?.9"/\$

Q#4!3, . !&, K%!, !(%?4%0!/7(#467!c-aF+!B#(12. 0/(43/#(0!/#!3#&%!E(%0%. !/Z4. 1!G2@%1!8267/
#(!/7(#467!" <I ZMd![7//E0d^^AAA#9#4/4' %H3#&^A, /37e\\$FSV3-A%Ja](#) + *!

c-a!F+!/(, 2. 2. 6!E(%0%. /, /2#. d![7//E0d^^. 3' \(/A%' H504H#@4^3#4\(0%0^@70^F: ZDbgSH7E!](#)

;+<Ⓢ3(8&/(.0,\$A5(,\$

M7%!E, 0!&#. /7!7, 0!' %% . !B255%@!A2/7!, !5#/#B!2&E#(/. . !2004%0!/7, /!(%?42(%@!, . @!3#. /2. 4%/#!(%?42(%!
026. 2B23, . /!B, 345/9!2. E4/#!F5%, 0%!3#. /2. 4%/#!07, (%!, 3/2#. 0!/7, /!#334(!#. !/7%!8, 345/9!-%. , /%!A2/7!9#4(!
3#55%, 64%0#!P%Y@!52K%!9#4!/#!K%%E!B, 345/9!2. B#(&%@!, . @!, A, (%!#B!0437!2004%0!0#!7, /!A%!3, . !3#. /2. 4%!
/#!, @\$#3, /%!#. !9#4(!' %7, 5B!/#!/7%!4EE%(!, @&2. 20/(, /2#. H!