



" #\$\$%&'()!(+,- '#(,./(&(),!&%,!012',,%&32,!(\*!4 &' 5!.#66,%,'(!,782\*#(&(#0,!.5' &4 #9):&' .!'\*(;1)!(&' " &%(+&<)!=#',5&%>!

?,(, %!/ @, %5!!

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J2\*%#.&!K\*0,%' \*%L\*' !M, / &' (#)<!&((, '(#\*' N\$, ((# '\$!)(1 '( O 625# '\$!6#6(5!=, ', P1, 2&' !4 #\$\$%&' )!6\* 4 ! / &' !Q' (\*' #'!(\*' " &%(+&<)!=#',5&% . O +&!)3,, ' !R#. ,25!&' .!;1)(#6#&325!9\*' ., 4', .>!S1(E!&!) 6%, T1, '(25!\*991%)!#')!19+!9\*' (%\*0,%)#, )E!4 \*)!(!6!(+\*),!. \*# '\$!(+,!9\*' ., 4 '# '\$!+&0, !2\*)(!&22! 8,% )8,9(#0,>!

M, / &' (#)!#)!&!L, 8132#9&' E!)\*!6, R!\*6!+#!)4 &' 5!9%#(9)!+&0, !3\*(+, % . !(\*!9\* 4 8&%, !+#!)!(1' (!R#(+! % ,9, '(!4 \*0, )!35!(R!\*M, 4 \*9%&()E!U+#9&\$\*! " &5\*%!V\*%#!V#\$+(6\*\*(!&' .!W22# '\*#!)K\*0,%' \*%!X>S>! ?%#(P@, %>!Q6(, %! ., '\*1' 9# '\$!&' \*(+, %!L, 8132#9&' E!Y, 7&!)K\*0,%' \*%!K%, \$!Q33\*(E!6\*%!+#!)1' #2&(, %&2! 8\*2#95!\*6!31# '\$!(+\*1)&' .)!\*6!4 #\$\$%&' )!(\*)&' 9(1&%5!9#(, .)!19+!&!)U+#9&\$\*!&' .!Z, R! [ \*%@E! V#\$+(6\*\*(!&' .!)?%#(P@, %!, 4 8+&)#P, .!(+&!(+ , #%!;1%#) . #9(\*' )!&%, !\*8, '!(\*)19+!8\*812&(#\*' )!# ' ! .#)(% , )> [ , !(+ , 5!(+ , ' !8%\*9, , . . !(\*!4 \*0, !)#7(5N6\*1%!=, ', P1, 2&' !4 #\$\$%&' )!(\*)&' !+\*(, 2!# ' !&' ! \*1(25# '\$!;1%#) . #9(\*' E!(+ , !, 71%3&' !9\* 4 4 1' #5!\*6!S1%#L# . \$, E!R#(+\*1(!' \*(#65# '\$!&' 5!\*6!(+ , ! \*66#9#&2)!(+ , % , >!Z\*(!)1%8%#)# '\$25E!(+ , !4 &5\*%!\*6!S1%#L# . \$, E!&!L, 8132#9&' !R+\*!+&!)!, 78%, ) , .!' \*! &' #4 1)!( \*R&% .!(+ , !4 #\$\$%&' )E!+&!)!(% , ' 1\*1)25!9%#(#9#P, .!+#!)6, 22\*R!, 2, 9(, .!\*66#9#&2)>!

Y+, !8\*# '(#)! '\*(!&8&%(#)&' !\* ' ,>!U2, &%25E! '\*!\* ' , O \* ' !, #(+, %!)# . , !\*6!(+, !&#)2, O @ \* ' R)!T1#(, !R+&(!(\*! . \*!R#(+E!%\*%E!(+ , !+1' . % , .)!\*6!(+\*1)&' .)!\*6!4 #\$\$%&' )!' \*R!)(%, &4 #' '\$!&9%\*)!)\*1!)!1(+, %' !3\*% . , %>! X1)!(&!)92, &%25E!#(#!)(#4 , !(\*!)(\*8!&' .!, 7&4 #' , !\*1!&))14 8(#\*' )!&3\*1(!(+, !\*\$&2)!&' .!4 \*(#0, )!\*6! (+\*), !), @# '\$!(\*! , '(, %!1\*19\*1' (%5>!Q' .!#(#!)9, %(&# 25!(#4 , !(\*!)(\*8!9&8#(&2#P# '\$!\*' !(+, !9+&22, '\$ , )! 8\*), .!35!(+ , !%, 9\*% .! ' 143, %)!\*6!4 #\$\$%&' )!(\*)&@, !8\*(+\*!)&!(+\*), !&4 \* '\$!1%16, 22\*R!9#(#P, ' )! R+\* 4 !R, !+&0, !2, &% , .!4 \*)!(, '(+1)#&)(#9&225!(\*!0#2#65>!

Y\*!3, \$# 'E!#(#!)9%#(#9&2!(\*!&9@ ' \*R2, . \$, !R+&(!R, !. \*! ' !"#@ ' \*R!&3\*1(!(+, , )!4 #\$\$%&' )>!W' !%, )8\*' ) , !(\*! . %&4 &(#9!&' .!9\*' (%\*0,%)#&2!9+&' \$, )!# ' !(+, !#4 82, 4 , '( &(#\*' !\*6!1%#4 4 #\$\$%&(#\*' !2&R)E!4 \*%, !&' .! 4 \*%, !# ' .#0# .1&2)!&%#0# '\$!&(!\*1%)\*1(+, %' !3\*% . , %!&%, !' \*(!, 9\* ' \* 4 #9&225!4 \*(#0&(, .!4 #\$\$%&' )! ), @# '\$!(\*! , '(, %!)1% , 8(#\*1)25>!W' ) , & . E!(+ , 5!&%, !8%, ) , '(# '\$!(+ , 4), 20, )! . #%, 9(25!(\*!3\*% . , %! \*66#9#&2)!&!)&5214 !&882#9&' )!6, &%# '\$!6\*%!(+ , #%!2#0, )!&' .!)&6, (5>!Q' .!R+#2, !(+, !=, ', P1, 2&' )!# ' ! (+, , )!%, 9, '(!9\*' (%\*0,%)#, )!&%, !62, , # '\$!)#(1&(#\*' )!(+&!(4 #\$\$%&' )!(T1&2#65!(+ , 4 !6\*%!%, 61\$, , !)(&1)E!#(#!) 6&%!6\* 4 !9, %(&# '!(+&!(&22!)\*6!(+ , , )!91% , '(!4 #\$\$%&' )E!%\*! , 0, ' !4 \*)!(!6!(+ , 4E!4 , , !(+\*), !9#(, %#&>!W' ! &' 5!, 0, '(E!=, ', P1, 2&' )!%, 8%, ) , '(;!1)!(\*' .!), \$4 , '(!6!(+ , !+1' . % , .)!\*6!(+\*1)&' .)!\*6!# ' .#0# .1&2)! 6\* 4 !0&%#\*1)! '&(#\*' )!R+\*!+&0, O 6\*%! .#0, %), !&' .!6(, ' !2, \$#(#4 &(, !%, &)\*' ) O 3, , ' !&%#0# '\$!&(!\*1% ))\*1(+, %' !3\*% . , %!&' .!9\*' (%#31# '\$!(\*!(+ , !9+&\*)!&' .!9\* ' 61)#\*' !(+ , % , >!



(+,!- '#(,./(&(,)!+&)!#'0&%##325!3,, '!8,\*82,. !35!4#\$%&'!)!,&\$,%!(\*)),(2,!.\*R'!+,%,!  
8,%4&' ,(25>!

b +, '!(+,!4#\$%&'!)# '!T1,) (#\* '!&%, !5\*1 '\$!8,\*82,E!, )8,9#&225!5\*1 '\$!4, '!91(!2\*\*), !6%\*4!(+,!3\*' .)!  
\*6!6&4#25!&' .!9\*441 '#(5!3&9@!+\*4 ,E!(+,5!4&5!3,!R#22#' \$!(\*(!&@,!&. #(#\*' &2!%#)@)!(+&(!8%1., '9,!  
R\*12.!&.0#), !&\$&#')(>!Q' .!(+,!,66,9)!\*6!4#\$%&' (<!) +\*%(N(%4!(#4 ,!+\*%#P\*')!&%, !+&% .25!9\*'6#', .!  
(\*!(+,!R\*%@82&9,>!J\*%!,7&482,E!(+,5!&2)\*!%, )12(!# '!&!R#22#' \$', ))!(?!81(!18!R#(+!8\*\*%12#0#' \$!  
9\*' .#(#\*' )!&!(+,!+&' .)!\*6!1')9%1812\*1)!2&' .2\*%.)E!\*%!(?!.%#0,!4\*(%\*!0,+92,)!R#(+\*1(!8%\*8,%!

(+, !U+&2,)!/(, R&%( " \*((!J\*1' .&(#\* 'E!&' .!(+, ! " &9Q%(+1%J\*1' .&(#\* '>Y+, !\*%\$&' #P&(#\* '<)!6, . . %&2!  
J\*% 4!eeA!`(\*!), 91%, !(&7!, 7, 4 8!)(&(1)a!)(&(, )!(+&(!#(!) 4#))#\* ' !#)!( \*!3%# ' \$!&3\*1(!&!4 \*%, !# '921)#0, E!  
, T1#(&32, !&' .!)1)(&# ' &32, !R&5!\*6!2#6, !6\*%V&(#\* '#4 4 #\$\$&' (!9\* 4 4 1 '#(#, )!2#0# '\$!#!(+, ! - '#(, .!  
/(&(, )!&' .!&9%\*)!(+, !Q 4, %9&)>!S5!R\*%#@# '\$!(%&' )' &(#\* '&225!R#(+18&%( ' ,%)!6%\* 4 !9#0#2!) \*9#, (5!&' .!  
\$\*0, % ' 4, 'E!\*%\$&' #P, . !2&3\*%!&' .!6&#(+N3&), . !9\* 4 4 1 '#(#, )E!R, !+\*8, !(\*!9%, &(, !&!4 \*%, !. # '\$ '#6#, .!  
&' .!;1)(!R&5!\*6!2#6, !6\*%!&22!8, \*82, !#!(+, !Q 4, %9&)>^!

U2, &%25E!&' !& 4 3#(#\*1)E!#6! '\*(!\$%&' .#\*), E!), (!\*6!\*3;, 9(#0, )>[ , (!&V&(#\* '#9\*22, &\$1, !\*6!4 #', E!&!2#6, N  
2\* '\$!, )# ., ' (!\*6!U+#9&\$\*!&' .!+#\$+25!0#)#32, !9\* 4 4 1 '#(5!2, &. , %!R+\*!@\* \*R)!R+, %, !&22!(+, !3\* .# , )!  
&%, !31%#, .! '&' .!+, 28, .!31%5!) \*4, !\*6!(+, 4 aE!+&!) ' , 0, %!+, &% .! \*6!Q2#&' P&f!

W' !%, 9, ' (! .&5)E!\* ' , !%, &.)!(+&(!&!2, &)(!) \*4, !\*6!(+, !4 #\$\$&' (!)+#88, . !\*66!35!)+& 4, 2, ))E!\$%&' .N  
)(&' .# '\$!8\*2#(#9#&' )!( \*!82&9, )!2#@, !U+#9&\$\*E!Z, R! [ \*%@E!&' .!, 0, '!' &%(+&<)!=#', 5&% .!&%, !' \*(  
, '#(#, 25! .#)82, &), . !R#(+!R+&(!+&)!+&88, ', . !(\*!(+, 4 !)\*!6&%!# ' !Q 4, %9&> / \*!(+, !T1, )(#\* ' !&#), )E!  
R+\*), !)(&' .&% .)!&' .!#'(, %, )(!+&0, !3, , ' !0\*#9, .!# '(+, !%, 9, ' (!\*1(8\*1# '\$!\*6!\*1(%&\$, d!!Y+\*), !\*6!  
(+, !4 #\$\$&' )E!\*%!(+\*), !\*6!(+, #%!&. 0\*9&(, )d!Y\*!3, !!)1%, E!Q 4, %9&' )!)+\*12. !' \*(!3, !, 78, 9(, . !(\*!)(&' .!  
35!R+#2, !4 #\$\$&' )!\$, (!, 782\*#(, .>[ , (!\*1%!\*1(%&\$, !' , , . )!(\*!3, !!(, 4 8, %, .!35!(+, !%, &2#P&(#\* ' !+&(!  
(+, %, !&%, !4 &' 5!R&5)!(\*!, 782\*#(!4 #\$\$&' ) O &' .!+(+&(!\*!0&%5# '\$! ., \$%, , )!R, !&%, !&22!9\* 4 82#9#(1# '!(+##)  
. 5' & 4 #9>!J# ' &225E!R, !4 1)(!3, &%!# ' !4 # ' .!+(+&(!4 #\$\$&' )<8%\*92#0#(5!(\*!(&@, !9+&' 9, )!&' .!9%#91 4 0, '(!  
6\*% 4)!&' .!%12, )!6&9#2#(&(, )!, 782\*#(&(#0, !%, 2&(#\* ' )+#8) O &' .!#)!\* ' , !%, &)\* '!(+, 5!&%, !0&21&32, !(\*!1)>!

!'"#\$%&' '\$\$(-, +; ' "0. ++ "' - "0-; "%, #, 4\$%-+4, . !4. -\$#-< "+#"'! -="%%. ) .>-\$0. %%" ?-\$#-#/. -@!+#, #&#-0"'-  
1\*8\$!4. \*- .#&\* . +, !- =&%#&' .-\$#-#/. -A!, 8. '+, #B- "0-C, ' ), !, \$>-\$! \*-\$4"'#', ( &#, ! )-. \*, # "' - "0-Q 4, %9&' !  
?1%8\*), >!