

6780;/%FCG/<4IH/?%; (7c5#9%BA#(%9!% 'B(A#.9%7(A!7(A!7HH5Q!%N#!\$ ' 3 HB%7%& ' (75! 3 #N' A9!(##A#A!% ' !
3 ' A#5K!9' 51#K!7(A!7(75Qd#!A7%7!6. ' 3 !H. ' c5# 3 9!&(!7#. ' 9H7\$#!#(]& (##.& (]!9\$&#(\$#9/!

9 +G70%6780;/%@7.1<;+!%

*/ "%.B\$%B.#A!X : E_ : M!P. '].7 3 3 & (]!% ' ! " ' 51#! : #. ' 9H7\$#! ; (]& (##.& (]!P. ' c5# 3 9/!
./ T(\$#. %7& (%Q!7(A! ; .. ' ! : (75Q9&9/!
F/ E#\$N(&\$75! e .&%& (]!7(A! - 7%7!P.#9#(<%7%& ' (!
=/ : A17(\$#A!S ' 3 HB%7%& ' (75! X #N' A9!
>/ ; %N&\$9!& (! ; (]& (##.& (]!

I0+513=% I 815/,13/;+!!

P. 'C#\$%9!I, !H. 'C#\$%9J! ! ! ! ! ! =) f !!!
P7. %&\$&H7%& ' (!
!!I: %%#(A7(\$#!7(A!7\$%& 1#!H7. %&\$&H7%& ' (K!S ' A& (]!SN755# (]#9J! F) f !
` B&dd#9!IF!bB&dd#9J! ! ! ! ! ! F) f !

!
g 'B.!5#%#.#.!] .7A#9! ^&55!c#!799&] (#A!c79#A! ' (!#aH#\$%7%& ' (9! ' 6!H#.6' . 3 7(\$#! : !5#%#.#.!] .7A#! ' 6!h : i!.#H.#9#(<%9!
9BH#.& ' .U#a#\$55#(%!H#.6' . 3 7(\$#K!7!] .7A#! ' 6!hMi!.#H.#9#(<%9!] ' ' AUC#%#.#.!%N7(!71#.7]#!H#.6' . 3 7(\$#K! ^N&5#!7!
].7A#! ' 6!hSi!.#H.#9#(<%9!\$ ' 3 H%#%#(%U71#.7]#!H#.6' . 3 7(\$#! ^N&\$N!&9!& (!7\$\$ ' .A7(\$#! ^&N!S T!] .7A& (]!H' 5&\$QJ/!
EQH&\$755QK

?/ : %%(A7(\$#!% !755!(' (GbB&d!\$5799#9!&9!759'!.#bB&.#A/!"%BA#(%9!^&55!c#!]&1#(!' (#!V].7\$#Y!\$5799!^N#.#!
3 &99#A!7%%#(A7(\$#!^&55!c#!7B% ' 37%&\$755Q!#a\$B9#A/!EN&9!9N' B5A!c#!.#9#.1#A!6'!.!3 #A&\$75!'!.!67 3 &5Q!
#3#.]#(\$	K!9&(\$#!Q' B!^&55!('%!c#!755' ^#A!'!3 78#!BH!+3J!'%N#!.3 &99#A!\$5799#9!c#Q' (A!%N&9!9& (]5#!
#1#(%!AB.&(]!%N#!9# 3 #9%#.K!.#]7.A5#99!'6!%N#!.#79' (!X 78#GBH!^'.8!^&55!('%!c#!.#bB&.#AK!cB%!Q' B!7.#!
"E0<2R_g!#(\$'B.7]#A!'!H#.6'. 3 !%N#!&(G\$5799!7\$%&1&%	!' (!Q' B.!'^ (!%& 3#!% '!(9B.#!Q' B!N71#!
H.#H7.#A!%N#!37%#.&75!6'!.!'%N#!.].7A#A!\$' 3 H' (#(9!'6!%N#!\$5799/!!
[/ : (Q! 3 #A&\$75!'!.!9%BA	G.#57%#A!(##A9!'6!7c9#(\$#!Q' B!8(' ^!'6!H.&'!.!'!\$5799!3 B9%!c#!\$' 3 3 B(&\$7%#A!

"J,+,C8;"4+4/ 2 /34;'

6,+;077 2%K/ :+H170%

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&(<9.B\$%&'(75!9#%&&(!J9K!^N#%N#.!(#!H#.9'(K!.#3 '%#!'.!'(5&(#!EN'9#!^N'!67&5!%'!7AN#.#!%'!9B\$N!c#N71&'.75!
9%7(A7.A9!3 7Q!c#!9BcC#\$%!'!A&9\$&H5&(#!/P.'6#99&'(75!\$'B.%#9Q!7(A!9#(9&&1&&Q!7.#!#9H#\$&755Q!&3 H'.%7(%!
^&%N!.#9H#\$%!'!&(A&1&AB759!7(A!%'H&\$9!A#75&(!J!^&%N!.7\$#K!\$'5'.K!(7%&'(75!'.&]&(K!9#aK!H.#] (7(\$QK!7]#K!
A&97c&5&%QK!\$.##AK!.#5&] &'(K!9#aB75!'&#(%7%&'(K!]#(A#!&A#(&%&QK!]#(A#!#aH.#99&'(K!1#%#.7(!9%7%B9K!H'5&%&\$75!
766&5&7%&'(!'.!H'5&%&\$75!HN&5'9'HNQ!!j'.!3'.#!&(6'.3 7%&'(K!9##!%N#!H'5&\$!'(!\$5799.' '3 !c#N71&'!.!7(A!%N#!
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L/E810/ 2 /34;%N70% 6 FN>OP(Q%

: 9!7! 3 7%#.#!'6!HBc5&\$!N#75%N!7(A!976#%Q!AB#!%!'!%N#!H7(A# 3 &\$K!755! 3 # 3 c#.9!'6!%N#!S T!M' B5A#!.\$' 3 3 B(&%Q!
7(A!755!1&9&%'.9!%'!\$7 3 HB9! 3 B9!6'55'^!B(&1#.9&%QK!A#H7.% 3 #(%!7(A!cB&5A&(!J!.#bB&.# 3 #(%9K!7(A!HBc5&\$!

"%BA#(<9!^N'!N71#!%9#A!H'9&&1#!6'!.!S<1W-G*ZK!N71#!9Q3H%'39!'6!S<1W-G*ZK!'.!N71#!N7A!\$5'9#!
\$'(%7\$!^&N'9'3#'(#!^N'!N79!%9#A!H'9&&1#!6'!.!'.!N7A!9Q3H%'39!'6!S<1W-G*Z!3B9!9%7Q!N'3#7(A!
\$'3H5#%#!%N#!D#75%N!`B#9%&'((7&.#7(A!W55(#99!O#H'.%&(]!j'.3!.#3'%'5Q!/W(!%N&9!\$5799K!&6!Q'B!7.#!9&\$8!'.!
bB7.7(%&(A#AK!H5#79#!5#%!%N#!&(9%.B\$%'!.!8('!^!1!7!#37&5/!

!<<72 275+4173%M70%O1;+C1,141/;%

W6!Q'B!bB75&6Q!6'.!7\$'\$33'A7%&'(9!c#\$7B9#!'6!7!A&97c&5&&QK!H5#79#!9Bc3&&!Q'B.!7\$'\$33'A7%&'(!5#%#.#!
6.'3!-&97c&5&&Q!'"#.1&\$#9!%'!Q'B.!67\$B5%Q!3#3c#.!&(!7!%&3#5Q!37((#!9'!%N7!%Q'B.!(#A9!\$7(!c#!
7AA.#99#A!/!-&97c&5&&Q!'"#.1&\$#9!A#%#.3&(#9!7\$'\$33'A7%&'(9!c79#A!'(!A'\$B3#(#A!A&97c&5&	!&(#!N#!
7\$7A#3&\$#(1&.(3#(?!W(6'.37%&'(!'(!.#bB#9%&(]!7\$'\$33'A7%&'(9!&9!5'\$7#A!'(!N#!-&97c&5&&Q!'"#.1&\$#9!
^#c9&&#/#!S'(%7\$!-&97c&5&&Q!'"#.1&\$#9!7!F)FG=Z,G?[*!'!.!A9&(6'@\$'5'.7A'/#AB!6'.!6B.%N#!.799&9%7(\$#/#!W6!
Q'B!N71#!7!%#3H'.7.Q!3#A&\$75!\$'(A&&&'(K!9##!E#3H'.7.Q!X#A&\$75!S'(A&&&'(9!'(!N#!-&97c&5&&Q!'"#.1&\$#9!
^#c9&&#/#!

D0/M/00/5'"485/34\$+2/;%+35%D073783;%

ST!M'B5A#!.#\$'](&d#9!%N7!%9BA#(%9m!5#]75!&(6'.37%&'(!A'#9(m!75^7Q9!75&](!^&N!N'^!%N#Q!&A#(&%&6Q!
"%BA#(<9!37Q!BHA7%#!%N#&!.H.#6#..#A!(73#9!7(A!H.'('B(9!1!7!%N#!9%BA#(%!H'.%75n!%N'9#!H.#6#..#A!(73#9!
7(A!H.'('B(9!7.#!5&9%#A!'(!&(9%.B\$%'9m!\$5799!. '9%#.9!/W(!%N#!7c9#(\$#!'6!9B\$N!BHA7%#9K!%N#!(73#!%N7!
7HH#7.9!'(!%N#!\$5799!. '9%#.!&9!%N#!9%BA#(%9m!5#]75!(73#/#!

R7370%675/%

:55!9%BA#(<9!#(.'55#A!&(!7!T(&1#.9&&Q!'6!S'5'.7A'M'B5A#!.\$'B.9#!7.#!.#9H'(9&c5#!6'.!8('!^&(]!7(A!
7AN#.&(]!'!%N#!D'('!.!S'A#!1&'57%&'(9!'6!%N#!H'5&\$Q!37Q!&(\$5BA#!H57]&7.&93K!\$N#7%&(]K!67c.&\$7%&'(K!
5Q&(]K!c.&c#.QK!%N.#7%K!B(7B%N'.&d#A!7\$#\$99!%'!7\$7A#3&\$!37%&.&759K!\$5&\$8#.!6.7BAK!9Bc3&&%&(]!%N#!973#!'.!
9&3&57.!^'.8!&(]3'.#!%N7(!'(!#\$'B.9#!^&N'B!H#.#3&99&'(16.'3!755!\$'B.9#!&(9%.B\$%'9!&(1'51#AK!7(A!
7&A&(]!7\$7A#3&\$!A&9N'(#9%Q!/:55!&(\$&A#(<9!'6!7\$7A#3&\$!3&9\$'(AB\$!^&55!c#!.#H'.#A!%'!%N#!D'('!.!S'A#!
IN'('.@\$'5'.7A'/#AB!n!F)FG=Z,G>>>)J!'"BA#(<9!6'B(A!#9H'(9&c5#!6'.!1&'57%&(]!%N#!7\$7A#3&\$!&(##].&%Q!
H'5&\$Q!^&55!c#!9BcC#\$%!'('7\$7A#3&\$!97(\$%&'(9!6.'3!%N#!D'('!.!S'A#!79!^#55!79!7\$7A#3&\$!97(\$%&'(9!
6.'3!%N#!67\$B5%Q!3#3c#!.:AA&&&'(75!&(6'.37%&'(!.#]7.A&(]!%N#!D'('!.!S'A#!7\$7A#3&\$!&(##].&%Q!H'5&\$Q!

