

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

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

45*3, &'6-7899:8;6<:'

= \$3>, ?@3'4A*B\$, &'511C0&DDEEE2%\$3>, ?\$32/*''D\$3D''\$/5#, %8) *+%, 8: <<-#F)D'

GE\$11, A&' . ''()* +, -'

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HIC, A\$31, 3?, 31J' "#\$%&'&!\$(!)\$*#&+, -**#. \$#!'/0101, 23&'&. +4!

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5&67!+8&! "#\$%&'&!\$(!)\$*#&+!#. !+8&!9 : ; - " !<= !26. 7&>#% !3&'2\$. '&!

" &'#? . !6. 7!#>2*&>& . +!96+8\$*#% !@%8\$\$*! : ((#%&!3&, \$3?6. #A6+#\$. !2*6. !

93&6+&!+8&! "#\$%&'6. !@%8\$\$*!@+36+&?#% !2*6. !

@&3B&!\$. !+8&!C# '8\$2D'! "#\$%&'6. !5&67&3'8#2!E&6>!

93&6+&!# . \$B6+#B&!6223\$6%8&'!+\$!&. 6F* &!+8&!B#6F##+G!\$(!+8&!7#\$%&'6. !'8\$\$*!'G'+&>!

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K\$A, /1*AJ'

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Z&,7&'#?. &7!633#B6*!6. 7!7#' >#' '6*!23\$+\$%\$*!

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7-88", '%'-5&8(9 : %-, "0(
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: I & . '0!ZK!/01<=4!E8&!98636%+&3#'+#%'!6.7!9\$. +&_+'!\$(!M. ?*#'8!5&63. &3!R3\$?36>!" #3&#+\$3'K!!"
"\$%+\$36*!" #' '&3+6+#\$. !%\$>2*&+&7!6+!5\$G\$*6!P. #B&3'+G!98#%6?\$\$!
!
"N386>0!" K!/01<S4!` &&2#. ?!@%8\$\$*'!96+8\$*#%#!" #'%#2*&'8#2!6'!R6367#?>!(3!H7>#. #' +36+\$3'0!!
E&6%8&3'0!@+6((!6.7!@+N7& . +'K!! "\$%+\$36*!" #' '&3+6+#\$. !%\$>2*&+&7!6+!5\$G\$*6!P. #B&3'+G!98#%6?\$\$!
!
V6*'80!EK!6.7!@2&***'0!" K!/01<S4!9633G#. ?! : N+!+8&!98N3%8D'! J 6.76+&!(3!@(\$%#6*!)N'+#%&^!
->2*&>&. +6+#\$. !\$(!6!@&3B#%&, 5&63. #. ?!R3\$?36>!#. !6!96+8\$*#%#!@%8\$\$*!@&+#+. ?K!! "\$%+\$36*!"
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] 6 I [0! J K0! J #%8&*FN3?80!MK!6.7!] \$\$B&30!ZK!/01<S4!96+8\$*#%#!@%8\$\$*!E&6%8&3!6'!H%+#\$. !
Z&'&63%8&3^!H!R3\$U&%+!" '&#? . &7!+\$!M>2\$ I &3!6.7!E36. '\$(3>!96+8\$*#%#!@%8\$\$*!E&6%8&3'!# . +\$!
- . '+3N%+#\$. 6*!R3\$F*&>!@*\$B&3'K!! "\$%+\$36*!" #' '&3+6+#\$. !%\$>2*&+&7!6+!5\$G\$*6!P. #B&3'+G!98#%6?\$\$!
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J & . 7& . 0! J K0! J \$3+& . 0!@K0!6.7!@N**#B6.0!" K!/01<Q4!@8#(+#. ?!R3\$(&'!#\$. 6*!9N*+N3!# . !96+8\$*#%!
@%8\$\$*'!^!H!96'&!@+N7GK!" "\$%+\$36*!" #' '&3+6+#\$. !%\$>2*&+&7!6+!5\$G\$*6!P. #B&3'+G!98#%6?\$\$!
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EN% [&30!@K!/01<Q4!98&% [, # . , 98&% [, \$N+!6.7!R63& . + , 9\$>2\$. & . +!C&86B#3!- . +&3B& . +#\$. K!! "\$%+\$36*!"
" #' '&3+6+#\$. !%\$>2*&+&7!6+!5\$G\$*6!P. #B&3'+G!98#%6?\$\$!
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CN7#36863U\$0! J K!/01<\4!H!R8& . \$>& . \$\$?#%6*!@+N7G!\$(!E36. '\$(3>6#B&!5&63. #. ?!# . !R63+##%26. +'!# . !
+8&!- " @MR!R3\$?36>K!" "\$%+\$36*!" #' '&3+6+#\$. !%\$>2*&+&7!6+!5\$G\$*6!P. #B&3'+G!98#%6?\$\$K!!!
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V6* [&30!EK!/01<04!H+##+N7&'!6.7!- . %*N'#\$. ^!H. !&_6>#. 6+#\$. !\$(!+&6%8&3'D!6+##+N7&'!+\$ I 637!
. %*N7# . ?!' +N7& . +'! I #+8!7#!6F*##&'K!! "\$%+\$36*!" #' '&3+6+#\$. !%\$>2*&+&7!6+!5\$G\$*6!P. #B&3'+G!
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263+!\$(!6!*63?&3!d<\KQ!>##*\$\$.!736.+!+\$!'N22\$3+!+8&!#.'+3N%+#\$.6*!&((&%+#B&.&'!\$(!23#.%#26*'+83\$N?8!
+8&!@H J D'!/'%8\$\$*!67>#.#+36+#B&!>6.6?&34!23\$%&'K!!E8#!736.+#!+63?&+7!+\$!<Q!96+8\$*#%!
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b96+8\$*#%R3#.%#26*!R3&2636+#\$.!R3\$?36>c!/dQ10111!(N.7&7!+83\$N?8!+8&!]&*&.!C36%8!e\$N.76+#\$.4!
!
bH**!H3&!V &*%\$>&," &B&*2#.?!.%*N'#B&!R36%+%&!#!.96+8\$*#%!@%8\$\$*cK!!R63+.&3#.?I #+8!
H'2#3&,98#%6?5!6.7!+8&!C#?!@8\$N*7&3!'eN.70!'&%N3&7!d<KXQ!>##*\$\$.!736.+!+\$!%3&6+&16.7!
#>2*&>&.+16.!#.%*N'#B&!&7N%6+#\$.!>\$7&*I #+8#!.96+8\$*#%!'%8\$\$*K!
!
-5!R63+.&3'8#2!'H7B6.%#.?Z#?\$3\$N'!E36#.#.?,@%8\$\$*!5&67&3'8#2!R3\$?36>!/@5R4!L36.+!
/01<\,01<W4K!!9\$37#.6+&!263\$%8#6*!'%8\$\$*!263+.&3'8#2!\$(!+8&! "#\$%&'&!\$(!Z\$% [(\$370!R&\$3#60!6.7!
@23#.?(#&*7#!.+6+&I #7!&7B&*2>&.+!\$(!'%8\$\$*!&67&3'8#2K!/dQ110111!PK@K!" &263+>&.+!\$(!
M7N%6+#\$.4!!
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5&67&3'8#2!+\$!- .+&?36+&!+8&!5&63.#.?9\$.#.#.NN>!L36.+K!/E83\$N?8!+8&!9&.+&3!(\$3!+8&!@+N7G!\$(!
M7N%6+#\$.6*!R\$*#%G,-**#.\$\$'!@+6+&!P.#B&3'#+G4!R63+##%#26+#\$.!\$(!%\$.#.#N\$N'!#>23\$B&>&.+!23\$%&'!
(\$3!+8&!3&,7&'#?.!\$(!+8&!96+8\$*#%R3#.%#26*!R3&2636+#\$.!R3\$?36>!6+!5\$G\$*6!P.#B&3'#+G!98#%6?5\$!
R3\$U&%+!(N.7&7!FG!+8&!ZF&3+!ZK!J %9\$3>#% [!e\$N.76+#\$.K!!!
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b : 2&.#.?!+8&! "\$3\$'!+\$!H**c!/011=+\$!01<W4!,H!23\$?36>!N'#.?!3&'2\$. '&!+!#.#+3B&.#\$.!+\$!'N22\$3+!
<1!N3F6.!96+8\$*#%!'&*&>&.+63G!'%8\$\$*K!!R3\$U&%+!(N.7&7!FG!+8&!C#?!@8\$N*7&3!'eN.7!/d010111!2&3!
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b J \$B#.?(3\$>!-.%*N'#\$.!+\$!C&*\$.?#.?!^!H%\$>26.G#?!@+N7&.+!I #+8!"#6F##+&#!#!.96+8\$*#%!
@%8\$\$*c!/H23#!01004K!H773&'!7&*#B&3&7!6+!+8&!a 9MH!a 6+#\$.6*9\$.B&.#\$.K!a &I!: 3*6.'0!5HK!
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bE8!R\$I &3!\$(!C&*\$.?#.?!^!J \$B#.?!R6'+!-.%*N'#\$.c!/H23#!01004!H773&'!7&*#B&3&7!6+!+8&!
bC&G\$.7!: 2&.#.?!+8&! "\$3\$'^!M_2*\$3#.?!C&*\$.?#.?!I #+8#!-.%*N'#B&!R3\$?36>'!#!.96+8\$*#%!
@%8\$\$*c!%\$.(&3&.%&!6+!+8&!P.#B&3'#+G!\$(!@6.! "#&?5K!
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b96..\$.F6**'0!9 : ; -"!6.7!+8&!a &I!Z&6*#Gc!/ J 63%8!01004!H773&'!7&*#B&3&7!6+!+8&!56'6**#6.!

bM. 'N3#. ?!6!R*6%&!6+!+8&!E6F*^!@+N7&. +'! I #+8!7# '6F#*+##&'!# . !96+8\$*#%!@%8\$\$* '!/ : %+\$F&3!01<W4'
H773&' '!7&*#B&3&7!(\$3!+8&!e\$N. 76+#\$. !(\$3!- . %*N '#B&!M7N%6+#\$. YY " #\$\$%&'&!\$(!CN((6*\$K!CN((6*\$0! a g!
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!bM. 'N3#. ?!H!R*6%&!6+!+8&!E6F*^!@&3B#. ?!@+N7&. +'! I #+8! " #'6F#*+##&'c!/ J 6G!01<W4!H773&' '!
7&*#B&3&7!(\$3!+8&!- . %*N '#B&!96+8\$*#%!M7N%6+#\$. !e\$N. 76+#\$. 0!R\$3*6. 70! : 3&?\$\$. K!
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b : .&!C\$7G0! : .&!@2#3+^!@&3B#. ?!@+N7&. +'! I #+8! " #'6F#*+##&'!# . !96+8\$*#%!@%8\$\$* 'c!/e&F3N63G!01<X4!

!
C\$G*&0! J K!/01<14!H!C36B&! a & I! V \$3*7^!Z+!# . !96+8\$*#%!@%8\$\$*'K!H.68&#>!9H^! a 9MH!@2&%#6*!
a&&7'!9\$. (&3& . %&K!
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C\$G*&0! J K!/011=4! J G+8'!6.7!Z&6*#+#&'!\$(!Z+!6.7!96+8\$*#%!@%8\$\$*'K!H.68&#>!9H^! a 6+#\$.6*!
96+8\$*#%!M7N%6+#\$.6*!H''\$%#6+#\$.! a 6+#\$.6*!9\$. (&3& . %&K!
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C\$G*&0! J K!6.7! : A630!5K!/011=4!R3&B& . #. ?!9N33#%N*N>!96'N6*+##'^!P . #B&3'6*! " &'#?.!# . !96+8\$*#%!
@%8\$\$*'K!H.68&#>!9H^! a 6+#\$.6*!96+8\$*#%!M7N%6+#\$.6*!H''\$%#6+#\$.! a 6+#\$.6*!9\$. (&3& . %&K!
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C\$G*&0! J K!/011=4! J G+8'!6.7!Z&6*#+#&'!\$(!Z+!6.7!96+8\$*#%!@%8\$\$*'K!9863*'+\$.0!@9^ a 9MH!
@2&%#6*! a &&7'!9\$. (&3& . %&K!
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C\$G*&0! J K!6.7!L36. ?&30!EK!/011=4!93&6+#. ?!E&6%8&3!H''#'+6. %&!E&6>'K!- .7#6.62\$*#0!- a^!
a 6+#\$.6*!96+8\$*#%!M7N%6+#\$.6*!H''\$%#6+#\$.! a 6+#\$.6*!9\$. (&3& . %&K!
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C\$G*&0! J K!6.7! : A630!5K!/011=4! " &'#?. #. ?!(\$3!P . #B&3'6*!@N%&' 'K!- .7#6.62\$*#0!- a^! a 6+#\$.6*!
96+8\$*#%!M7N%6+#\$.6*!H''\$%#6+#\$.! a 6+#\$.6*!9\$. (&3& . %&K!
!
C\$G*&0! J K!/<====4!93&6+#. ?!93#+#%6*!9\$. 'N>&3'!\$(!- . (\$3>6+#\$. K!@+K!9863*!'0!-5^!-@P!9\$. .&%+#\$. '!
9\$. (&3& . %&K!
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C\$G*&0! J K!/<==W4!->2*&>& . #. ?!6!] \$*#+#%!H223\$6%8!+!\$!+8&!E&6%8# . ?!\$(!E8# . [#. ? ,H!96'&!@+N7GK!
@\$N+8!e*\$3#76!9\$. (&3& . %&!\$. !E8# . [#. ? , J #6>#0!e*K!
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C\$G*&0! J K!/<==W4!] \$*#+#%!H223\$6%8!+!\$!+8&!E&6%8# . ?!\$(!E8# . [#. ?K!98#%6?0!-5^!-***. \$#!
H''\$%#6+#\$.!\$(!L#(+&7!98#*73& . K!
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C\$G*&0! J K!/<==Q4!93&6+#. ?!6!9N*+N3&!\$(!E8# . [#. ?K!98#%6?0!-5^!E8&!-***. \$#!H''\$%#6+#\$.!\$(!
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C\$G*&0! J K!/<==Q4!5&67&3'8#2!# . !M_%&2+#\$.6*!R\$2N*6+#\$. 'K!H3*# . ?+\$# .] + 'K^!E8&!-***. \$#!9\$N. %#!\$(!
M_%&2+#\$.6*!98#*73& . K!
!
C\$G*&0! J K!/<==Q4!L& . 7&3!C#6'^!E8&!Z\$67F*\$% [!+\$!@N%&' 'K!@23# . ?(#&*70!-5K^!-***. \$#!@%8\$\$*!
R'G%8\$*\$?#'+!H. . N6*!9\$. (&3& . %&K!
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C\$G*&0! J K!6.7!56R\$. +&0! J !/<==T4!R3&'& . #. ?!@\$%#6*!@ [#***!L3\$N2'!# . ! a 6+N36*!9\$. +&_+'K!
Z\$% [(\$370!-5^!-***. \$#!H''\$%#6+#\$.!\$(!@%8\$\$*!R'G%8\$*\$?#'+ 'K!
!
C\$G*&0! J K0! ` & . .&G0!RK!56R\$. +&0! J K!6.7!5#B&3?\$\$70!5K!/<==\4!H!9\$**6F\$36K

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C\$G*&0! J K!/<==04!9\$?. #+B&!6. 7!H((&%+B&! " #((&3&. %&'!# .!)626 .&' &!6. 7!H>&3#%6.!

J 6+8&>6+#%6**G!E6*& . +&7!C\$G'K! a 6'8B#**&0!E a^! a 6+#\$. 6*!H' '\$%#6+#\$. !\$(!@%8\$\$*!R'G%8\$*\$?#'+ '!

H. .N6*!9\$. B& .+#\$. K!!

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C\$G*0! J Km! " \$. 68N&0! " \$. \$?8N&0!L0!e6F&30!)\$. &'0!e0!Z6G,E#>\$. &G0!)K0!E&'%8&0!CK0!6. 7!P8*0!EK!
i9 : ; - " !V#+. &'!+\$!] \$2&^!96+8\$*%#!@%8\$\$*!Z&'2\$. 7!+\$!9 : ; - " ,<=i!/01014K!9 : ; - " ,<=!6. 7!
96+8\$*%#!@%8\$\$* 'K!SK![8+2^YY7#?#6*\\$>>\\$. 'K*>NK&7NY%&n%\\$B#7YS!](#)

!
C\$G*0! J K!6. 7! " '\$&. 0!HK!/01<X4K!!R3&263#. ?!@&>#. 63#6. '!'+\$!V \$3[! I #+8!96+8\$*%#!@%8\$\$* '^!H!
9\$. +&. +!H. 6*G'#'!\$(!+8&!9N33#%N*N>K!)\$N3. 6*!\$(!96+8\$*%#!M7N%6+#\$. K!
[8+2^YY7 K7\\$#K\\$3?Y<1K<Q\SQYU\\$%&K01101Q01<X!](#)

!
R8##22&0! " K0!] &3. 6. 7&A, J &*# '0!9K0!e&. .#. ?0!RK0!@&63'0! ` 0!V &'*&G0!MK0!56 I 3&. %&0!MK0!C\$G*0! J K!
/01<X4!H!9\$. +&. +!H. 6*G'#'!\$(!96+8\$*%#!@%8\$\$*! V 3#+&. ! " #'%#2*# . &!R\$*%#&'K!)\$N3. 6*!\$(!96+8\$*%#!
M7N%6+#\$. K!! " : ^<[1K<Q\SQYU\\$%&K0<1<1001<X!](#)

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C\$G*0! J K!)K!/01<X4K!@N22\$3#. ?!' +N7&. +! I #+8!7# '6F#*#&'!#. !96+8\$*%#!&*&>&. +63G!6. 7!'&%\$. 763G!
'%8\$\$* '^!L!0I(2-%)3!2)*2&. !&983I()- '!\$&. , \$&3()/&5!M\$9I(&!/T\ / \40!<T, <QK!!

!
C\$G*0! J K!6. 7!] &3. 6. 7&A0!9K!/01<S4!- . B&' #?6#. ?!+8&!H++N7&'!\$(!96+8\$*%#!@%8\$\$*!R3#. %#26* '!
+\$ I 637'!+8&!- . %*N'#\$. !\$(!@+N7&. +! I #+8! " #'6F#*#&'K!)\$N3. 6*!\$(!96+8\$*%#!
M7N%6+#\$. K!![8+2^YY7 K7\\$#K\\$3?Y<1K<Q\SQYU\\$%&K011<1=01<S!](#)

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C\$G*0! J K!/01<S4!- . +3\$7N%+#\$. !+\$!+8&!e\$N'!@&%+#\$. ^!R3&263#. ?!5&67&3'!#. !5#?8+!\$(!+8&!@+6. 7637'!
)\$N3. 6*!\$(!96+8\$*%#!M7N%6+#\$. K![8+2^YY7 K7\\$#K\\$3?Y<1K<Q\SQYU\\$%&K<=1\<T01<S!](#)

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C\$G*0! J K0!] 6**&30!HK0!6. 7!] N. +0!MK!/01<S4!E8&!5&67&3'8#2!986**&. ?&^!R3&263#. ?!6. 7! " &B&*\$2#. ?!
96+8\$*%#!@%8\$\$*!R3#. %#26* 'K!)\$N3. 6*!\$(!96+8\$*%#!M7N%6+#\$. K!
[http5e596xp6t.516x1.516c555ej16e555e53ej312jcx1.516x.516x2.516x9.516xi.516xt.516xp1.516x0.](http://5e596xp6t.516x1.516c555ej16e555e53ej312jcx1.516x.516x2.516x9.516xi.516xt.516xp1.516x0.)

@&3B&7!6'R3\$U&%+! J 6.6?&3!(\$3!5\$G\$*6!R3&' '\$. ^!

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@N+\$.0!5K!/01014!E&6%8#.?!@+N7&.+!' I #+8!HN+#' >!# .!6!96+8\$*#%!@&+#+. ?K!98#%6? \$^!5\$G\$*6!
R3&' 'K!

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C63\$.&0!)K!6.7!` 6+360!9K!/01<=4!e6#8,C6' &7!@+36+&?#&'!+\$!Z&6%8!6.7!E&6%8!5&63.&3'! I #+8!
" #'6F###+&'K!98#%6? \$^!5\$G\$*6!R3&' 'K!

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@&3B&7!6'!2&76?\$?#%6*!%\$. 'N*+6.+!\$.!

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C\$G*&0! J K!/@&2+&>F&3!01<04!R3\$B#7#. ?!(\$3!%86**&. ?#. ?!F&86B#\$3'!R63+!-!K! a 9MH! a \$+&'^! a 6+#\$. 6*!
96+8\$*#%!M7N%6+#\$. 6*!H' '\$%#6+#\$. K!!!

C\$G*&0! J K!/ J 6G!01<04!R3\$B#7#. ?!(\$3!%86**&. ?#. ?!F&86B#\$3'!R63+!-!K!K! a 9MH! a \$+&'^! a 6+#\$. 6*!
96+8\$*#%!M7N%6+#\$. 6*!H' '\$%#6+#\$. K!!!

C\$G*&0! J K!/ J 63%8!01<04!@&3B#. ?!' +3N??*#. ?!*&63. &3'! I #8!H" j " K!K! a 9MH! a \$+&'^! a 6+#\$. 6*!
96+8\$*#%!M7N%6+#\$. 6*!H' '\$%#6+#\$. K!!!

C\$G*&! J K!/@&2+&>F&3!01<<4!R3\$B#7#. ?!(\$3!' +3N??*#. ?!*&63. &3' K! a 9MH! a \$+&'^! a 6+#\$. 6*!96+8\$*#%!
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: A630!5K!6.7!C\$G*&! J !/)6.N63G!011W4!e&&7F6% [!\$. !@+N7& .+!H%8#&B&>& .+K! a 9MH! a\$+&'^!
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93&6+#. ?! J &+628\$3' !K! a 9MH! a\$+&'^! a6+#\$.6*!96+8\$*#%!M7N%6+#\$.6*!H' '\$%#6+#\$.K!!!

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