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7<2/+52"#/5D, +8#+2#8+7+&#B&D58B7+%/&8G#H, &#&33&:+8#23#, 58#/%B5"D#7/&#. B7F5"D#2%+#5"#7BB#</7":, #23#
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82:57BBF#:2"8&/;7+5; , /58+57"#7"6#.2B5+5:7BBF#:2"8&/;7+5; &#J &.%<B5:7"#;7B%&8)#7"6#5#. B7F8#7"#

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A2/B6GE%*#H, 58#/&3&/&": 0 .B5&6#+, 7+J &7D7"#<&B5&; &6#+, &#/&782"#&; 7"D&B5:7B8N#5"; 2B; &0 &"#A78#
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B2; "6#658:5 .B5"#+, 7+#+, &5/#:2; &"7"#+6&0 7"6&6)E#A, &/&78#J &7D7"#C%/D&6#9 0 &/5:7"8#+2# #7#

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5 " # =>Z*)# J &7D7 " #8+7+&6#+ , 7+##C2 "BF#7#65 ; 5 " &# . /2 ; 56& " : &# . B7 : &6#+ , 58#B7 "6) #+ , 58#58B#3/&&62 0)# , &/&#
7#/&3%D /#7BB#+ , 28&# . &2 . B " #+ , &#A2/B6#A , 2#F&7/" #+2#</&7+ , /&&E%#7 "6#5 "65 : 7+&6#+ , 7+ , &#+22)#
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/&B5D52%8#]#8.&:535:7BBF)#7"+5U1, /58+57"#]#<578#5"#.2B5+5:8#A,5:,#A78#,5"6&/5"D#J&7D7"#7"6#
&;7"D&B5:7B8N#7<5B5+F#2#B5;"6#8.&7P#3/&&BFG#J&7D7"#/&:2D"5_&6#+,7+#&;7"D&B5:7B8#A&/&#
&0<7+B&6#7"6#37:&6#7:+5;..285+52")#7"6)#<&:7%8&#+,&/&#A78#7"+5U/&B5D52"#<578#5"#.2B5+5:8)#
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;7B%&8E#,7;&#B&3+#.2B5+5:8#7"6#C+/765+52"7B#02/7B#&7:;,5"D8E&S#,7;&#<&&"#658:/&65+&6)#J&7D7"#
&T./&88&6#+,7+#,&#A78#7:+%7BBF#65887+5835&6#+,7+#C\$%6&2U1, /58+57"E#;7B%&8#7"6#02/7B#&7:;,5"D8#
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6&;&B2.0&"#+,7+#h27,#d&B607"#6&8:/5<&8#78#+,&#C/58#;7B%&8#&;7"D&B5:7B580GE&#^"#

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&;7"D&B5:7B580G`#H,58#6&;&B2.0&"#A78#8,7.&6#5"#.7/#<F#+,&#+/7"8B7+52"#23#:2"8&/;7+5;&#
1, /58+57"#;7B%&8#)#, /2#D,#D/2%.8#B5P&#+,&#S2/7B#S7L2/5+F)#5"+2#D&"&/7B#8&:%B7/5_&6#02/7B#;7B%&8#
+,7+#,76#C07L2/5+7/57"#7..&7BGE&(#9"+5U7<2/+52"#7"6#./2U8:,22BU./7F&/#.285+52"8#A&/A2/:&6#
3/20#+,&5#/#&B5D52%8#%"6&/.5"5"D8#7"6#5"8+&76#<&:70&#.285+52"8#:&"#&/&6#7/2%"6#02/7B5+FG`*#
O;7"D&B5:7B8N#&B5D52%8#<&B5&38#A&/&#"2#B2"D&/#L%8+/#&B5D52%8#<&B5&38K#+,&F#+/7"8:&"6&6#&B5D52"#

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'!k#(?[!\$)D(3!9060*,*LJ?IK\$*!B<,)0"(L-L/#;)#H-+(, L5)\$J/, <Mm(I*!N#(+N, L!#\$,%*!9\$!(JS; +D:!!kSZ!o#<R![(<<<!/&:(C:!(3)!Y=<#Ch!0-- i7!
'(1\$>)D(3!9060*,*LJ?IK\$*!
'(1\$>)D(3!9060*,*LJ?IK\$*!,40!
'(1\$>)D(3!9060*,*LJ?IK\$*!

7"6)#3/20#+, &#&; 7"D&B5:7B#. &/8. &: +5; &)#A&/&# 02/7B#; 7B%&8#7. .B5:7<B#7BB#23#, % 07"5+F#7"6#A5+, #
A, 5:, #7BB#. &2. B, 2%B6#7D/&&6#O; 7"D&B5:7B8#: 70 #; 5&A#+, & 08&B; &8#78#% . , 2B6&/8#23#0 2/7B5+F)#
7"6#+, N. &: +8#23#9 0 &/5: 7"#: %B+%/"6#D2; &/ " 0 &" +#A5+, #A, 5:, #&; 7"D&B5:7B8#656#"2#7D/&&
<&: 70 &#&; 56&" : #9 0 &/5: 7N8#B7: P5"D# 0 2/7B5+FG# 9 665+52"7BBF)#+, "5+&6# - +7+&8#D2; &/ " 0 &" +N8#
. 285+52" #23# " &#+/7B5+F#2A7/68#/&B5D52" #<&: 70 &&" #78#7"6#% "6&/8+226#2#<&#D2; &/ " 0 &" +
658:/505"7+52" #7D75"8+ #/&B5D52"G') #J &7D7" #6&02"8+/7+&6#+, 58#8, 53+ #<F#: B7505"D#+, 7#+, &#: %//&" +
D2; &/ " 0 &" +#7"6#: 2" +&0 . 2/7/F#. 2B5+5: 57"8#<&B5&; &6#+, 7+#C7" F#. %<B5: #. 2B5: F#7. . /27: , #
5": 2/ . 2/7+5"D#+/765+52"7B#; 7B%&8#58#2%+23#<2% "68GE' +X&: 7%8&#/&B5D52")#3/20#+, &#. &/8. &: +5; #+, &#
<%665"D#1 , /58+57" #J 5D, +)#A78#+, R%/ : #0 2/7B#; 7B%&8)#+, &#D2; &/ " 0 &" +#7: +5; &BF#"2+
7: : 20 0 267+5"D#/&B5D52%8#C/5D, +8E#2/#/&B5D52%8BF#<78&6#2. 5"52"8#2" #0 2/7B5+F#A78#% "6&/8+226#78#
+, &#D2; &/ " 0 &" +#B7: P5"D# 0 2/7B5+F#7"6#. &/8&: %5"D#/&B5D52"G##

R2A&; &/)#+, &#, &7/+23#J &7D7"N8#: 2" " &: +52"#A5+, #&; 7"D&B5:7B8#656#"2+ #: 20 /20#, 58#
&0 . , 7858#2" #+, &#; 7B%&# , WA#5" #&; 7"D&B5:7B#<&B5&38)#&; 7"D&B5:7B8#+, & 08&B; &8)#2/#&; 7"D&B5:7B8N#
/2B" #. 2B5+5: 8K#5"8+&76)#5+#A78#D/2% "6&6#% . 2" #3&7/8#23#8&: %B7/580#7"6#+, F0 <52+5: #/&B7+52"8, 5. #
+, 7#+, &#&T. B75" +&6#, "6#&; 7"D&B5:7B8#: 2%B6#, 7; &G#R58#/&3&/&" : &8#+2#8&: %B7/580#78#7#+, /&7+ #<&D7" #
78#&7/BF#78#=>Z*)#<%#+, &F#A&/&#. 7/+5: %B7/BF#. /2"2% " : &6#5" #, 58#=>Z@#CO; 5B#O0 . 5/&E#8. &&: , G#

J &7D7" #. B75"BF#7B5D" &6#, 508&B3#A5+, #&; 7"D&B5:7B8#A, &" #, &#: B750 &6#+, 7+#C0 26&/ "U67F#8&: %B7/580E#

A78#C5" #2. . 285+52" #+2 k %8GE' - #J &7D7" #. B7: &6#8&: %B7/580#8+7% " : , BF#5" #2. . 285+52" #+2#, 508&B3)#, 58#

7%65&" : &#) #7"6#+, &#A, 2B#9 0 &/5: 7#<&: 7%8&: %B7/580#C658: 7/6i&6j#+, &#+/5&6#7"6#50 &U+&8+&6#

; 7B%&8#% . 2" #A, 5: , #2%/ #; &/F#: 5; 5B5_7+52" #iA78j#<78&6GE' # #J &7D7"N8#3/705"D#8&: %B7/580#78#

5": 20 . 7+5<B&#A5+, #+, &#C; 7B%&8 k #i2" #A, 5: , j#2%/ k : 5; 5B5_7+52" #iA78j#<78&6E' \$ #076&: %B7/580#

⁽¹⁾ [S]D(3!9060*, *LJ?LKS*! ,40!
⁽¹⁾ " \$M(3!_k (k=#3(!8FF(<:k!
^(#) " \$M(3!_k ^%>!^D ;<S!_! : ;SS9?#!n#-9S:#!#F!PSD#9<(9I!
^(S) " \$M(3!_k ^%>!^D ;<S!_! : ;SS9?#!n#-9S:#!#F!PSD#9<(9I!
^(S) " \$M(3!_k ^%>!^D ;<S!_! : ;SS9?#!n#-9S:#!#F!PSD#9<(9I!

5":20.7+5<B&#A5+,#9 0&/5:7#2"#7#3%"670&"7B#B&;&B#J&7D7"#7/D%&6#,7+)#6&8.5+&:%B7/58+8N#
:B7505"D#,7+#C+,&FN//&&5"D#i9 0&/5:7"8j#3/20#8%.&/8+5+52"8#23+,&#.78+)E'%"#5"/&7B5+F)#C+,&FN;&
+7P&"%#.2"#+,&0 8&B;&8#+,&#L2<#23#8%.&/5"+&"65"D#i9 0&/5:7"8j#<F#D2;&/"0&"#/#B"6#
/&D%B7+52"E'%"#7"6#,7;%BB&"#2#:#2/%.+52"#7"6#7%+,2/5+7/57"580K#,58#./&8&"#8&:%B7/58+8#78#
2;&/<&7/5"D#7"6#A7"+5"D#:20.B&+&#D2;&/"0&"#:#2"/2B#2;&/#+,&#. &2.B&G#J&7D7"#50.B5&6#,7+##
%"6&/#78&:%B7/58+D2;&/"0&"#)+, &#. &2.B>"N#,7;#;25:#7"6#, &#D2;&/"0&"#62&8"N+#B58+&"#
+2#, &#. &2.B&G#9 0&/5:7"8#;7"D&B5:7B8P"&A#,7+7#D2;&/"0&"#+,7+62&8"N+#B58+&"#2+, &#;25:#
+, &#. &2.B&#A78#<B7+7"+BF%"U9 0&/5:7"6#

R2A&;&/)#J&7D7"#656#"2+#:20.B&+&BF#;5B53F#9 0&/5:7"8&:%B7/58+8G#R:P"2AB&6D&6#,7+##
+,&F#A&/&#"2+#7C07L2/5+FE' '#23#9 0&/5:7"8)#7"6#:2":&6&6#,7+)#,2%D,#+,&F#07F#<&#CA&BBU
5"+&"52"&6)#+, &5/#;7B%F8+&0#58#/765:7BBF#6533&/&"#3/20#,7+23#028+#9 0&/5:7"8)E'(#A,5:;)#78#7#
/&8%B+)#6&.5+&6#9 0&/5:7"8&:%B7/58+8#78#02/:D%56&6#,7"8&;5B#h2"&+,&B&88)#9 0&/5:7"8#
8&:%B7/58+5"65;56#7B8N#058.&/:&. +52"#656#"2+#7PA7F#3/20#, C"D&/#23#8&:%B7/580N8+F/7" "F#
A5+,5"#7#D2;&/"0&"#2/#82:5&+F#J&7D7"#.2/+7F&6#8&:%B7/580#78#<578&6#7D75"8#/#B5D52"#7"6#, &#
+/765+52"7B#;7B%&8#,7+##<#5B+#9 0&/5:7)A,5:;#B7:&6#8&:%B7/580#5"#2..285+52"#+2#"2+2"BF#9 0&/5:7#
<#7B82#&;7"D&B5:7B8G#

X&D5" "5"D#7/2%"6#, +7/+23#J&7D7"N8#35/8+.#/&856&":F#7"6#D/2A5"D#, /2%D,2%+,58#+50&#
5"#2335:&)#7<2/+52"#"&D7"#+2#/58"8&;7"D&B5:7B8N#:B%#/#7B#7A7/&"&886(*#J&7D7")#5"#+#/"#)#8&6#, &#
588%#7<2/+52"#78#7"8&T70.B#<2+, #+, C"D&/8#,7+8&:%B7/580#.28&8#+2#9 0&/5:7"82:5&+F#
7"6#, :+7P&8#+2#A,5:;#8&:%B7/580#B&768G#^"#,58#=>Z@#CO;5B#O0.5/&E#8.&&:,)#, &#&0.,785_&6#
+, &#D226#5"+&"52"8#23+, &#. &2.B&#A,2#:/&7+&6#7<2/+52"#:B5"5:8#<#+,5D,B5D,+&6#,7+)#:#//&"BF#

(*) \$(M(3!_!^%>!^D;=<\$!_!;\$\$9?#!n#-9\$;!#P!PSD#9<(9I!
(!) \$(M(3!_!^%>!^D;=<\$!_!;\$\$9?#!n#-9\$;!#P!PSD#9<(9I!
(!) \$(M(3!_!^%>!^D;=<\$!_!;\$\$9?#!n#-9\$;!#P!PSD#9<(9I!
(!) \$(M(3!_!^%>!^D;=<\$!_!;\$\$9?#!n#-9\$;!#P!PSD#9<(9I!
)!183)<SZ!"!fSZ=:!:#,i203#-k:;)I!0I!/\$I-,)6(+6,k/#)0-0(I!5\$0-0"-1CS>I!BS)0\$!k:)(I-AS)<,*+@#,k/;#;),kN()-!13k;!!H(DQ<)MS!..G!46-07!

62&8"N+#B58+&"#2#7"F#2.5"52"8#2+, &/#+, 7"#, 58#2A"G#J&7D7"#&88&" +57BBF#50 .B5&6#+, /+&/#
7605"58+/7+52"#A78#7"#7%+, 2/5+7/57"#!/&D50 &G#17/+&/#7"6#, 58#7605"58+/7+52"#; 52B7+&6#+, &#
3% "670&" +7B#. /5": 5.B&8#23#+, "5+&6#-+7+&8#<&:7%8/+&/#, 76#"2+#% . , &B6#, 58#C/&8.2"85<5B5+5&8E< &#
+2#7: +#5"#+, &#<&8+#5" +&/&8+8#23#+, &# . &2 . B&G#H, /+&/#7605"58+/7+52"#, 76#. %+#+, Z&/5:7"#. &2 . B&#
5"#67"D&/#<&:7%8+#!/&8+/5: +&6#, 2A#+, Z&/5:7"#. &2 . B&#A&/<B#C2/6&/#+, &5/#B5; &8)E(' #A, 5: , #
7B82#50 .B5&6#+, 7+#+, /+&/#7605"58+/7+52"#, 76#7#8. &:535:#7D&"67#32/#, 2A#+, Z&/5:7"#. &2 . B&#
8, 2%B6#<&#B5; 5"D#+, &5/#B5; &8G#J&7D7"#. /2. 28&6#+, 7+)#5"8+&76#23+/%8+5"D#5"#2" "D5<B&#. 285+52"#23#
. 2A&/#2/#. &/82")#90&/5:7"8#8, 2%B6+/%8+5"#C+, 28&#; 7B%&8#+, 7+#+/7"8:&"6#. &/82"8#7"6#. 7/+5&8GE((#
H, 58#A2%B6#+, &"#D5; &#+, &# . 2A&/#23#L%6D0&" +#<7:P#2#+, &# . &2 . B&#)7"6#32/: &#. 2B5+5:7B#B&76&/8#2#+, &#
8%<2/65"7+&#/7"P#78#+, &F#7++&0 . +&6#2#B5; &#% . #+2#7"6%# . , 2B6#C+, 28&#; 7B%&8E#32/#+, &# . &2 . B&G#d2/#
J&7D7"N8#7%65&" :&#) +, 58#0&7" +#D5; 5"D#<7:P#. 2A&/#2#&#; 7"D&B5:7B8#<&:7%8&#+, &F#A&/&#+, "BF#
2"&8#A, 2#A&/<B#07P/7BBF#: 2//&: +#L%6D0&" +8G#J&7D7"#A7" +&6#2#C07P#
:2005+0&" +k +2#&7: , #2%/#: , 5B6/&"#+, &#; 7B%&8#7"6#; 5/+%&8#, 7"6&6#62A"#+2#%8#<F#2%/#
3705B5&8)E)*#7"6#&T . B75"&6#+, 7+)#%"6&/#7#J&7D7"#7605"58+/7+52")#+, %/ ;5; 7B#23#+, Z&/5:7"#
A7F#23#B53&#A2%B6#<&# . /&8&/; &6G#XF#6&8: /5<5"D#C; 7B%&8#7"6#; 5/+%&8E#78#C, 7"6&6#62A")E#J&7D7"#
6/&A#7#: 2" "&: +52"#+2#C+/765+52"7B#; 7B%&8E#A, 5: ,)#<&D5" "5"D#5"#, 58#=>Z*#g 7BB78#J&% "52"#9 /&7#
8. &&: ,)# , &#%8&6#5" +&/: , 7"D&7<BF#A5+, #/&B5D52%8#; 7B%&8G#

J & O 7/P7<BF)#<F#: , 7/7: +&/5_5"D#8&: %B7/580#78#+, "+5+, &858#23#90&/5:7#7"6#F5"D#

8&: %B7/580#2#+, /+&/#9605"58+/7+52")#J&7D7"#A78#7<B#. 2/+/7F#+, &#& ; 7"D&B5: 7B#\$500F#

. /2+&: +#, 28&#; 7B%&8#3/2 0#D2; &/ " 0 &" +F/7" "F)E^{'*})#J &7D7" #5 0 . 7/+&6#2"+2#, 58#7%65&" :&#A2#56&78W#
35/8+)#+, 7+##/ &B5D52%8#; 7B%&8#, 76#7#. B7: "#. 2B5+5: 8#7" 6)#8&: 2" 6)#+, 7+#D2; &/ " 0 &" +)#8. &: 535: 7BBF#+, &#
: %//&" +# 1 7/+&/#76 0 5" 58+/7+52")#A78#7#+, /&7+#+2#/#B5D52%8#; 7B%&8G#^" #0 %B+5. B. &&: , &8#6%/5"D#+, &#
=>Z*#. /&856&" +57B#/#")#, 0 . B5&6#+, 7+#+, &#D2; &/ " 0 &" +)#50&G)#+, &# 1 7/+&/#76 0 5" 58+/7+52")#, 76#7#
+F/7" "5: 7B#; &" 6&+7#7D75" 8+##/ &B5D52" #7" 6#+, 7+#+, &#D2; &/ " 0 &" +<&B5& ; &6#; 7B%&8#+, 7+#+& 0 #3/2 0 #
/ &B5D52" #, 76#" 2#. B7: "#82: 5&+FG#R2A& ; &/)#J &7D7" #7; 2A&6#+, 7+#+, &#D2; &/ " 0 &" +N8#; &" 6&+7#A78#
A/2"D#<&: 7%8&# 1 7/+&/#3% " 67 0 &" +7BBF# 0 58% " 6&/8+226#+, &#. %/ . 28#+, &#d5/8+9 0 &" 6 0 &" +W#82: 5&+F#
656#" 2+## &&6#+2#<&#. /2+&: +&6#3/2 0 #/ &B5D52")#5" 8+&76)#/ &B5D52" #" &&6&6#+2#<&#. /2+&: +&6#3/2 0 #+, &#

M, 5B&# J &7D7"#. 285+52"&6#82 0	 0 &/5:7"#8&:%B7/58+8#78#, 7/ 0 3%B#<%#A&BBU5"+&" +52"&6)#, &#
656#"2+#T+&"6#7"F#23#, 7+#:2%/+&8F#2#:2 0 0%"58 0)#A, 5:, #, /7 0 &6#78#, &/+BF# 0 7B5:52%8#7"6#
, 7/ 0 3%B#& 0 <265 0 &" +#23#8&:%B7/58 0 G#XF#, &#+5 0 &#J &7D7"#D7; &#+, &#CO; 5B#O O .5/&E#8. &#&:, #5"# S 7/: , #
23#=>Z@)#, &#, 76#.5".25"+&6#:2 0 0%"58 0#78#, &#D/&7+&8+&67"D&/#2#9 0 &/5:7"#B53&#<&:7%8+#
&.5+2 0 5_&6#8&:%B7/58 0 G#J &7D7"#8.&" +#0 %:, #23#, &#<&D5""5"D#8&:+52"8#23#, 58#CO; 5B#O O .5/&E#
8.&#&:, #&`%7+5"D#/&B5D52"#A5+, #0 2/7B5+F#7"6#7335/ 0 5"D#/&B5D52"#78#, RB%+, 2/5+F#2"# 0 2/7B5+FG#
H, 58#&"7<B&6#, 5 0)#78#, &#<&D7"#+7BP5"D#7<2%+#:2 0 0%"58 0)#+2#8, 2A#, 7+#<&:7%8&#:2 0 0%"58 0#A78#
7D75"8+#7B#/&B5D52%8# 0 2/7B8)#:2 0 0%"58 0#+, %8#, 76#"2# 0 2/7B8G# 1 2 0 0%"58 0#5"#9 0 &/5:7#A78#
67"D&/2%8#<&:7%8	 0 &/5:7#7B/&76F#8+/%DDB&6#A5+, #5":2/.2/7+5"D# 0 2/7B8#5"+2#D2; &/" 0 &" +)#<%+#53#
9 0 &/5:7#A&/&#+2#<&:2 0 &#:2 0 0%"58+)"#7"F#, 2. /#9 0 &/5:7N8#A&BBU<5"D)#A, 5:, #A78#82#6&&.BF#
6&.&"6&" +#2"# 0 2/7B5+F#7"6#/&B5D52")#A2%B6#<&#B5 0 5"7+&6G# J &7D7"#:B28&6#, 58#CO; 5B#O O .5/&E#
8.&#&:, #A5+, #7#8+2/F#7<2%+7#37+, &/#A, 2#A2%B6#/7+, &/#, 58#67%D, +&/8#65&#F2%"D#<&B5& ;5"D#5"#Q26#
5"8+&76#23#6F5"D#2B6#5"#7#:2 0 0%"58+ #A2/B6#A, &/&#+, &#F#A2%B6#"2+<B&#+2#<&B5& ;"#Q26)*#
H, 58#<B7:PU7"6UA, 5+&#;5#A#23#, &#/&B7+52"8, 5.#<&+A&&"#:2 0 0%"58 0#7"6#/&B5D52"#8, 2A&6#
J &7D7"N8#7%65&":&#+, 7+#7#8&:%B7/58+D2; &/" 0 &" +)#&GDG)#7#:2 0 0%"58+2"&)#A78#, &#%B+5 0 7+C"D&/#
+2#, &5/#3/&&#B5; #7"6#53#:2 0 0%"58 0#:7 0 &#+2#9 0 &/5:7)"#2#2"&)#&8.&:57BBF# 1, /58+57"8)#A2%B6#<&#
873&G#4"6&/#:2 0 0%"58 0)#.7/&" +8#A2%B6#, 7; &#"2#/5D, +8)#: , 5B6/&"#A2%B6#, 7; &#"2#/5D, +8)#7"6#
&/B5D52"#A2%B6#<&#.&/8&:%+&6G# J &7D7"#%/D&6#, 58#7%65&":&#+2#<&#; 5D5B7"+#7D75"8+#C`%5&+#0 &"E)*\$#
A, 2# 0 5D, +#7BP#7<2%+3/&&62 0#<%+62"N+/#7BBF#./2+&:#5+)# 0 &7"5"D#8&:%B7/58+8#7"6#:2 0 0%"58+8G#
d2/# J &7D7")#+, +/%DDBD75"8+#:2 0 0%"58 0#A78#7# 0 2/7B2""6#<&:7%8&#:2 0 0%"58 0#A78#
6&; 256#23# 0 2/7B8)#, 0 .B5&6#+, 7+#5+#A2%B6#< 0 0 2/7B32/#9 0 &/5:7"8#+2#"2+#6&"2%":"6#
2..28&#:2 0 0%"58 0 G###

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,58#7%65&":#% .,2B6#5+G#J&7D7"#.25"+&6#2#9 0 &/5:7N8#,58+2/F#78#7#./5 0 &#&T7 0 .b#5+8#
C:7.7:5+F#32/#+/7"8:&"65"D#+,� 2/7B#&;5B8E#D5;&"#+,%:#+,7#+, +/56&8#9 0 &/5:7#,76#0 76 /#
C&`%7B#/5D,+8E#A78#7#.25"+#23#C./56 /#7BB#9 0 &/5:7"8E"*%#&;&"#53)#6%/5"D#+,28+/56&8)#+,&/&#A78#
C658%"5+FGE)*&#J&7D7"#, &/&#&"62/8&6#+,28"#,58#7%65&":&#A,2#A&/#D,+5"D#32/#7"+5U7<2/+52"#
7"6#./2U37 0 5BF#/5D,+8G#9 665+52"7BBF)#, Ყ/ 0 &6#+,7#+,58#7%65&":&#A78#"2+#2"BF#2"#+,//&:#+
856#,58+2/F#<%+#7B82#5"+&D/7B#+2#P&&.5"D#9 0 &/5:7#2"#5+8#./2.&/#:2%/8&G#O;&"#+,2%D,#2+,&/#
9 0 &/5:7"8#2..28&#+,& 0 #""2A)#&;7"D&B5:7B8#"&&6&6#+2#P&&.35D,+5"D#32/#+,&5/#<&B5&38#<&:7%8&#+,&F#
7B2"&#:2%B6#./2+&:#+7"6#D%56	 0 &/5:7N8#3#+%/&G#^"#625"D#+,7+)#J&7D7"#.285+52"&6#,58#7%65&":N#
,58#,&B.&/8#7"6#+,"&8#A,2#0 %8+#+&7/#+,&#<%/6"#% .,2B65"D#0 2/7B5+FG#

O;7"D&B5:7B8#,76#+,&#&8.2"85<5B5+F#23#87;5"D#7"6#./2.7D7+5"D#0 2/7B5+F#5"#9 0 &/5:7"#
82:5&+F)#7"6#J&7D7"#233&/&6#,5 0 8&B3#+2#+,& 0 #78#+,&#.2B5+5:57"#A,2#A2%B6#./2+&:#+, &5/#5"+&/&8+8#5"#
D2;&/" 0 &"+G#J&7D7"#<&B5&;&6#+,7+#Q26#,76#<B&88&6#9 0 &/5:7)#7"6#82#+,&#.2.B� %8+#+, &/&32/&#
;2+#./2+&:#+, &#C<B&885"D8E#23#Q26#C32/#2%/#: ,5B6/&"GE)*'R+/&88&6#+, 0 .2/+7":#,58#
&;7"D&B5:7B7%65&":&#<&:7%8"BF#+,&F#:2%B6#C./2+&:#+, 	 0 &/5:7"#37 0 5BF#7"6#/&8.&:#+5+8#
5"+&/&8+5"# k .%<B5:#.2B5:FGE)*(#^3#&;7"D&B5:7B8#656#"2+32/#82 0 &2"&#A,2#A2%B6#./2+&:#+, &5/#
;7B%&8)#+, &/&#A2%B6#<&#"2#2""#D2;&/" 0 &"+#2#C6&3&"6#+,&3&"8&B&88#7"6#+,&#A&7P)#+,&#;&/F#
F2%"D)#+,&#.22/#7"6#+,&#;&/F#2B6GE))*#J&7D7"#656#"2+#+/F#+2#:2";5":&#&;7"D&B5:7B8#+,7#+, &#A78#
C2"#+,& 0 KE#5"8+76)#, &#.B7:&6#&;7"D&B5:7B8#85 0 %B+7"&2%8BF#78#,58)#78#A&BB#78#9 0 &/5:7N8#
C0 2/7B#:2 0 .788GE)))#J&7D7"#A2%B6#D5;&#&;7"D&B5:7B8N#<&B5&38)#;7B%&8)#7"6#D27B8#7#/2B"#.%<B5:#
.2B5:F#7"6#.2B5+5:8G#!":&#,&#A78#5"#D2;&/" 0 &"+)#J&7D7"#A2%B6#756#&;7"D&B5:7B8#5"#6&3&"65"D#

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D/&7E#<&:7%8&#+, &F#P& . +9 0 &/5:7#CD226GE))\$#R&#&T . B75"&6#+, 7+#&; 7"D&B5:7B8#:2%B6# . /2+&: +
9 0 &/5:7"# 0 2/7B5+F#<F#P&& . 5"D# . 2B5+5:57"8#C 0 5"63%B#23#+, 8&78#7"6#+, &# . /5" :5 . B&8#+, 7+</2%D, +
i 9 0 &/5:7j#5"+2#+, &# . %<B5:#7/&"7#5"#+, #/8+# . B7: &6E))%# J &7D7"#A78#"2+#7" #&; 7"D&B5:7B)#<%+#, &#A78#
&B3U7A7/"6#:2" ;5" :&6#23#&; 7"D&B5:7B8N#5 0 . 2/+7" :#9 0 &/5:7)#A, 5: , #5"65:7+&6#2#
&; 7"D&B5:7B8#+, 7+#, &F#:2%B6#+/8#+, 5 0 G#R&#A78#7<B#L2P<2%+#, &#:2//% . +52"#23# . 2B5+5:57"8#
<&:7%8&# , &#:2%B6#8&#&# . 2B5+5:57"8#:B&7/BF#7"6#, 76#"2+&&"#5"62: +/5"7+&6#<F#8&: %B7/58 0 G#H, &#C56&78#
7"6# . /5" :5 . B&8E#+2#A, 5: , #, &#/&3&#//&6#A&/&#+, &#C+/765+52"7B#; 7B%&8E#, &# , 76# . /&; 52%8BF#&8+<B58, &6#
78#/&B5D52%8#; 7B%&8G#X&:7%8"BF#+, %65&":&N8#CA2/P#7"6# . /7F&/8E#A5BB#7BB2A#9 0 &/5:7#+2#
C8%/ ;5; &#+, 58# . &/5B2%8#: &"%+ /F#7"6#P&& . #7B5; &#+, 58#&T . &/5 0 &" +5"#B5<&/+F)#+, 58#B78)#<&8#+, 2 . #
0 7")E))&# J &7D7"# . %+#, &#<%/6&"#23# 0 2/7B5+F#2"+2#&; 7"D&B5:7B8)#"2+#, 5 0 8&B3G#O; 7"D&B5:7B8#:2%B6#
7"6#+, %8# 0 %8+#87; 	 0 &/5:7#7"6#9 0 &/5:7"#; 7B%&8#3/2 0 #8&: %B7/#7++7: P8G# J &7D7"#:2%B6#, &B . #+, & 0 #
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&; 7"D&B5:7B8#656#"2# . /2+&: +9 0 &/5:7#7D75"8+#8&: %B7/58 0)#"2#2" &#&B8&#A2%B6)#7"6#53#9 0 &/5:7#B28#
+, #D, +7D75"8+#8&: %B7/58 0)#7BB#C, 2 . &E#A78#B28+#32/#+, %+%/#7BB#, % 0 7"8G# J &7D7"#<&B5&; &6#
+, 7+#9 0 &/5:7#A78#A2/+, #35D, +5"D#32/)#7"6#82)#53#&; 7"D&B5:7B8#8% . . 2/+&6# J &7D7"#32/# . /&856&" +)#, &#
5"#+%/)"#A2%B6#8% . . 2/+#+, &5/#35D, +7"6#&332/+8G##
O; 7"D&B5:7B8#% . , &B6#+, &5/#856#+, &#/&B7+52"8, 5 . #7"6# 0 75"+75"&6#+, &5/#8% . . 2/+32/# J &7D7"#
+, /2%D, 2%+#, 58# . /&856&" +57B#:7/&&/)#7"6# J &7D7")#5"#+%/)"#A2/P&6#2#62#, 58# . 7/+G# J &7D7"#N8#CO; 5B#
O 0 . 5/&E#8 . &&: , #A78#D5; &"#8&; &/7B#F&7/8#73+&/#, &#A2"#+, &#=>Z*#&B&: +52")#7"6#5"#5+#, &#&T . B75"&6#
, 2A#, &# , 76#, 2"2/&6#, 58#: 2 0 0 5+ 0 &" +8#2#+, &#/&B7+52"8, 5 . #, "6#&; 7"D&B5:7B8#, 76G#O; 7"D&B5:7B8#
, &B6#+, 7+#, &#D2; &/" 0 &" +N8#<7" "5"D# . /7F&/#5"#8: , 22B)#A78#/& . /&8&" +7+5; #+, &#D2; &/" 0 &" +

658:/5 05"7+5"D#7D75"8+#C/&B5D52%8#8. &&:,)E))' #7"6#D5;5"D#5"+2#+, "3B%&":#8&:%B7/58 0G#X&:7%8&#

J &7D7"#:B75 0 &6#+, 7+#, &#C8&"++ , 2"D/&88#7#:2"8+5+%+52"7B#7 0 &"6 0 &" ++2#/&8+2/&# . /7F&/#2# . %<B5:#

8: , 22B8 k #+2#B&+#i 9 0 &/5:7N8j#: , 5B6/&"# . /7F)E))(#, , 2A&6#+, 7+#, &#A78#32BB2A5"D#+, /2%D, #2"#

D&+5"D#7"6#8% . . 2/+5"D#82B%+52"8#+2#&; 7"D&B5:7B8N#:2" :&/"8G#O; 7"D&B5:7B8#<&B5&; &6#5"#+, &#

5 0 . 2/+7" :# . /7F&/#5"#8: , 22B#<&:7%8&#P&& . 5"D# . /7F&/#5"#8: , 22B#P&& . 8# 9 0 &/5:7# 0 2/7B)#7"6#

J &7D7")#/&D7/6B&88#23# , 58#2A"# . &/82"7B#2 . 5"52"8)#, 76#7++& 0 . +&6#+2#</5"D#+, &5/#A5BB#+2#/&7B5+FG##

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¹¹!) "\$M(3!_!_!>^!^D;=<\$!_!; ;\$\$9?#!n#-9\$:#F!PSD#9<(9I!<!
¹²!) "\$M(3!_!_!>^!^D;=<\$!_!; ;\$\$9?#!n#-9\$:#F!PSD#9<(9I!<

I7%B#M&F/5: ,)#7#:2"8&/;7+5;&#.2B5+5:57"#3/2O#M58:2"85")#.&/:&5;&6#+,&#.2885<5B5+F#23#
D7B;7"5_5"D#:2"8&/;7+5;&#&;7"D&B5:7B8#A,2#A&/&#%" ,7..F#A5+,#D2;&/"O&"#5":%/852"8#5"+2#+,&#
&/7B0#23#8&D/&D7+&6#8: ,22B8G#M&F/5: ,#A7"+&6#2#07P&#&;7"D&B5:7B8)#78#7#D/2%)#7#/&B57<B&#;2+&/#
<78 /#+,&#J&.%<B5:7"#.7/+FG)·,#R2A& ;&/)#+,&#O&: ,7"580#+,7+#M&F/5: ,#%8&6#2#7+:5;7+&#+,58#
&/B5D52%8#:2O0%"5+F#A78"#2+#8&D/&D7+52"#<%+#82O&+,5"D#; &/F#6533&/&" +W#7<2/+52"G#9<2/+52"#A78#
"2+#7#:&" +/7B#588% /#&;7"D&B5:7B8K#% .#%" +5B#+,&#B7+&#=>?*8#7<2/+52"#A78#:2"856&/&6#2#<#7#
C17+,2B5:#588%&GE)·#S28+&#;7"D&B5:7B#B&76&/8#. /52/#+2#7"6#822"#73+&/# &5+,&/#656#"2+#8&#&
7<2/+52"#78#02/7BBF#A/2"D#2/#656#"2+#:7/&G)·\$#O;&"#53#7#B&76&/#/&:2D"5_&6#+,&#.2+&" +57B#32/#
7<2/+52"#+2#,7;&#O2/7B#:2"8&`%&":&8)#588%&8#B5P%O5BF#.B7" "5"D#7"6#7#./&D"7"#+.&/82"N8#,&7B+,#
A&/+&"#23#7#,5D,&/#O2/7B#. /52/5+FG)·%#H,&# #&;&"#8756)#32BB2A5"D#
+,&# #6&:5852"5"#=>?@)#+,7+#C/&B5D52%8#B5<#&/+F)#,%O7"#&`%7B5+F)#7"6#L%8+5:/&#
76;7":&6#<F#+,&#-%./&O%/+#7<2/+52"#6&:5852"GEX7B0&/#6&8:/5<#8#M&F/5: ,N8#: ,7BB&"D&W##
O;7"D&B5:7B8#5"#+,&#B7+&#=>*8#7"6#+, /2%D,2%+#O28+#23#+,&#=>?*8#<F#7"6#B7/D&#/&3%8&6#2#
8<2/+52"#78#7#6&35"5"D#588%&#)0%: ,#B&88#7#O7+&/#+,7+#A2%B6#8%O02"#+,&O#+2#+,/2"#+
B5"&8#23#.2B5+5:7B#7+:5;58OG#9<2/+52"#85O.BF#375B&6#2#D75"#"&D7+5;&j#+/7:+52"#7O2"D#
&;7"D&B5:7B8k#H,&/A,&B05"D#&8.2"8# #2"#+,&#.7/+23#&;7"D&B5:7B8#
A78#85B&" :&#)7"6#+,&#;25:&8#+,7+#8.2P"#+,&#O7+&/#A&/O<5;7B&" +G)·&#
M&F/5: ,#7"6#2+,&/#J&.%<B5:7"#.2B5+5:57"8#+,%8#,76#85D"535:7"#+A2/P#+2#62#2#+/7"8B7+<2/+52"#+
5"+2#7"#C&;7"D&B5:7BE#588%&G#d2/#"&7/BF#+A2#6&:76&8#5"#+,&#/#"U%.#+2#+,&#=>Z*#&B&:+52")#M&F/5: ,)#
<F#,58#2A"#7::2%"+)#,76#C%+&/BF#375B&6E)·'5"#D&+5"D#&;7"D&B5:7B8#5"#+&/&8+&6#5"#+.2B5+5:8G#R&#,76#
+/5&6#2#D&#+, &O#+2#:7/<2%+#7#;7/5+&F#23#588%&8#B5P&#.2/"2D/7.,F)#./7F&/#5"#8: ,22B8)#+,&#
. /2.28&6#O`%7B#J5D,+8#9O&"6O&" +)7"6#7<2/+52"0)·(#M&F/5: ,# ,76#&;&"#D2"/2%"6#2#+: ,%/: ,&8#
7"6#8,2A&6#+,&#&T+&/O&BF#7"+5U7<2/+52"#35B08#076&#<F#.78+2/#d/7":58#- ,7&33&/)#A,2#82O&#

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&; 7"D&B5: 7B8)#<%+#" 2#+2.5: #A78#&" +5:5"D#&" 2%D, #+2#./2; 2P&#&; 7"D&B5: 7B8G##
^"#+, &#B2"D#/%")#+, &8#B 0 8)#7B2"D#A5+, #M&F/5: , N8#7" 6#+, &# S 2/7B# S 7L2/5+FN8#&332/+8#656#
, &B.#5"#+, &#&332/+8#2#D7B; 7"5_&#&; 7"D&B5: 7B8#7D75" 8+#7<2/+52"G^#)#H, /2%D, 2%+#+, &#B7+&/#=>?*8#7" 6#
5"+2#+, &#=>Z*8)#&; 7"D&B5: 7B#.#<B5: 7+52" 8#<&: 7 0 � 2/F 0 . 7+, &+5: #+2#7" +5U7<2/+52" #8&" +5 0 &" +8K)^#+#
, 2A&; &/)#2"BF#73+&/#=>Z*)#656#7<2/+52" #<&: 2 0 #D&"%5" &#: 2" : &/"#+2#&; 7"D&B5: 7B8#7" 6#7#C:/% : 57B#
32: 7B#. 25"+E)^# #32/#1 , /58+57" #7: +5; 58+8G#R2A&; &/)#&; 7"D&B5: 7B8N#8, 53#++2A7/68#7<2/+52" #62&8#" 2+#
, 7"D&#+, &#/22+#0 2+5; 7+52" #32/#+, &5/#. 2B5+5: 7B#: 2" : &/"#A78#<78&6#2" #7" #2. . 285+52" #+2#7/ : 57B#
5"+&D/7+52"G#O6#g 2<82")#S&/#F#d7BA&BBN8#32/ 0 &/#78858+7" #7+#+, &# S 2/7B# S 7L2/5+FN8#7+&6#5" #=>#*#
, 7+#C+, &# J &B5D52%8# h &A# J 5D, +#656#" 2+#8+7/+&#<: 7%8#7#: 2" : &/"#7<2%+#7<2/+52")E)^##7" 6#Q/2; &/#
h 2/^%58+)#7#: 2" 8&/; 7+5; : +5; 58+)# : 2" 35/ 0 &6#+, 7+#+, &# J &B5D52%8# J 5D, +#C8+7/+&6#5" #N? ?#2/#N?Z#A5+, #
, 7/+&/#76 0 5" 58+/7+52" N8#7++7: P#2" #1 , /58+57" #8: , 22B8GE)^#S# 1 7/+&/N8#C7++7: P#2" #1 , /58+57" #8: , 22B8E#
58#5" #/&3&/&" : &#+2#+, &#^ J - N8#. 2B5: F)#<78&6#2" # N8#6&: 5852" +, 7+#62&8#" 2+#7BB2A#7#7: 57BBF#
658: /5 0 5" 7+2/F#5" 8+5+%+52" #+2#/&: &5; #+7TU&T& 0 . +#8+7+%8G##
g&8.5+&#+, %: +#+, 7+#<2+, # 7" 6#+, &#^ J - #. 2B5: F#: 7 0 %/5"D#h5T2"N8#76 0 5" 58+/7+52")#
5+#A78# 1 7/+&/#A, 2#A78#8. %/" &6#<F#&; 7"D&B5: 7B8G# 9#P&F#37: +2/#5" #+, 7+#8. %/5"D#A78#+, &#: 78#X2<#
\$2" &8#4 "5; &/85+FN8#2" #+, � 28+#. /2 0 5" &" +7" 6#5" 3B%&" +57B#&; 7"D&B5: 7B#7: 76& 0 5&8#5" #9 0 &/5: 7G#
! "#\$7" %7/F#=>#=>?)#+, &#^ J -)#73+&/#F&7/8#23#A7/" 5"D)#/&8: 5" 6&6#X2<#\$2" &8#4 "5; &/85+FN8#+7TU
&T& 0 . +#8+7+%8)^#%#<%+#+, 58#&; &" +#656#" 2#+, 7. . &"#% " 6&/# 1 7/+&/#5+#A78#6%/5"D#d2/6N8#76 0 5" 58+/7+52" #
7" #&" +5/&#F&7/7" 6#2" CF#<&32/&# 1 7/+&/#A78#&; &"#5" 7%D%/7+&6#2" #7" %7/F# '*)#=>? ?G#4 " &78&# , 76#

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+,&5/#7<5B5+F#+2#./2+&:+#/7:57B#8&D/&D7+52"#5"#+,&5/#./5;7+:,22B8G#H,&#^J-N8#7:+52"#+2A7/68#+,&#
X2<#\$2"&8#4"5;&/85+F#A78#%"6&/8+226#78#7#.2+&"+57B#C<&BBA&+,&/)E)^' #<%+#&;7"D&B5:7B8#A&/&#"2+#
F&+#8%/&#,2A#+,&#D2;&/"0 &"#A2%B6#7:+#%"6&/#17/+&/G#H,&F#A&/"8A&/&6#5"#9%D%8#=#>?ZK#A2#
F&7/8#5"+2#17/+&/N8#./&856&" :F)#+,&#^J-#32/07BBF7""2%" :&6#+,7+#5+#A2%B6#/&;2P&#+,TU&T&O .+#
8+7+%8#23#7BB#8:,22B8#+,7+#656#"2+#0 &&+#+,&5/#:/5+&/57#32/#5"+&D/7+52"G#M,5+&#&;7"D&B5:7B8#A&/&#
&"/7D&6)#7"6#+,&F#37%B+&6#17/+&/#7"6#,58#7605"58+/7+52"G#X7B0 &/#"2+&8#+,7+)#A,5B&#M&F/5: ,#
%"6&/8+226#&;7"D&B5:7B8N#3&&B5"D8)#, &#A78#7B82#C87; ;F&"2%D,E)^#(#+2#/&7B5_&#+,7+#,"6#+,&#
B&76&/8#23#+,&#J &B5D52%8#J5D,+#"&&6&6#7"#588%&#<&856&8#2..285+52"#+2#8&D/&D7+52"#+,7+#+,&F#:2%B6#
%8&#+2#.%<B5:BF#&" :2%/7D&#A,5+R%+,&/"#&;7"D&B5:7B8#+2#;2+ /#+,&#J &.%<B5:7"#.7/+FG)^S*#^"#+,&#
&"6)#M&F/5: ,#7"6#+,&#J &B5D52%8#J5D,+N8#B&76&/8#A&/% :&883%BG#98#X7B0 &/#.%+8#5+W#

^"# 9 "6/&A#V&A58 &T .B75"8#, 2A#+, &#B7"D%7D&#
23#C/5D, +8E#& 0 &/D5"D#7/2%" 6#+, 58#5 0 +/"D+, &"&6#: 2"8&/; 7+5; , /58+57"8N#8&"8&#+, 7#+, &F#A&/&#
<&: 2 0 5"D#7# 0 5"2/5+F# . 2 .%B7+52"#A5+, 5"#9 0 &/5: 7"#82: 5&+F#7"6#A&/&#+, %8#&" +5+B&6#+2#D/&7+&/#
: 2"8+5+%+52"7B# . /2+&: +52"8G)S+#9 #/5D, +58#7#C: 2"8+5+%+52"7B#D%7/7" +&&E#7"6#58#+, %8# . /2+&: +&6#<F#+, &#
D2; &/" 0 &"+0)S·#R2A&; &/)#78#V&A58&&T .B75"8)#7# 0 2/7B#CA/2"DE)S##62&8#"2+#, 7; &#B&D7B#
C. /&: &6&" :&)E)S\$#2; &/#C/5D, +8#7"6#L%8+5: &E)S%# 0 &7"5"D#+, 7+53#82 0 &+, 5"D#58#% "6&/8+226#78#2"BF#
5 0 0 2/7B#7"6#"2+#: 2""&: +&6#+2#7#: 2"8+5+%+52"7B#/5D, +)#+, &#D2; &/" 0 &" +#: 7""2+# . /2+&: +5+#2; &/#
82 0 &+, 5"D#+, 7+58#: 2""&: +&6#+2#7#: 2"8+5+%+52"7B#/5D, +G#H, &#D/2A5"D# 1 , /58+57"#J 5D, +#%8&6#C/5D, +8E#
B7"D%7D#: 2""&: +#, "+5U7<2/+52"# 0 2/7B#7/D% 0 &" +#2#+, &#C/5D, +U+2UB53&E)S/D% 0 &" +G#^"#625"D#
82)#C/5D, +8U+7BPE#3/7 0 &6#7<2/+52"#78#7#: 2"3B5: +#<&+A&&" +A2#/5D, +8W#7#3&+%8N8#C5"7B5&"7<B&#/5D, +#2#
B53&E)S' #; &/8#8#7#A2 0 7"N8#C/5D, +#2#: , 228&GE)S(##
X785"D#+, "+5U7<2/+52"#: B75 0 8#2"#/5D, +8)#: /%: 57BBF)# . /2; 56&6#+, , /58+57"#J 5D, +7#/5D, +8#
: B75 0 #+2#: 2%"&/#+, &# . /2U7<2/+52"#/5D, +8#: B75 0 G# 9 <2/+52"#, 78#<&&"#C+, &# 0 28+#8+7<BɌ%&E)*#2#
0 75"+75"#5"#&; 7"D&B5: 7B# . 2B5+5: 7B#, 58+2/F#<&: 7%8&#&; 7"D&B5: 7B8#, 7; #: 2%"&/#5D, +#A5+, #A, 5: , #
+, &F#: 7"#2 . . 28&#+, &# . /2U7<2/+52"#7/D% 0 &" +G#IM, &"#7#: 2"8+5+%+52"7B#/5D, +#, 78#7#: 2"8+5+%+52"7B#
: 2%"&/U/5D, +5"#2 . . 285+52"#+2#5+)#+, &/:#"2#: B&7/U: % #7"8A&/#2"#, 2A#+, &#D2; &/" 0 &" +#: 7"#7"6#
8, 2%B6# . /2+&: +#&7: , #/5D, +G#H, "D25"D#B&D7B#<7+B&8#2; &/#7<2/+52"#7"6#+, &#B7: P#23#7"F#/#82B%+52"8#
5"#+, &#; 7/52%8#</7" : , &8#23#+, "5+&6#-+7+&8#D2; &/" 0 &" +#8&/; N# . /5 0 &#&T7 0 . B&8#23#, 2A#
: 2 0 . B5: 7+&6#7"6# . 2A&/3%B#/5D, +8#7"6#: 2%"&/U/5D, +8#7/D% 0 &" +8#7/"#+, &#B&D7B#7"6# . 2B5+5: 7B#
8. , &/&8G#^"#: 2 0 . 7/582")#D7F# 0 7//57D&)#+2#A, 5: , #+, , /58+57"#J 5D, +58#7B82#2 . . 28&6)%)#B7: P8#7#

1583)SZ1"!!fSZ:-!:#, 1203#-4: ; J1011/\$1-,)6(+06, 1/#)0-0(115\$0-0"-1CS>1BJ\$)-0\$11:)(1-1S)<, *#:#, 1/; %: ; , 1N()-1131; 111H(DQ<=)MS! . G!46-07!
1584) fSZ:-!:#, 1203#-! ,!
1585) fSZ:-!:#, 1203#-!0i!
1586) fSZ:-!:#, 1203#-!0i!
1587) fSZ:-!:#, 1203#-!0i!
1588) fSZ:-!:#, 1203#-!0J!
1589) fSZ:-!:#, 1203#-!0J!
1590) fSZ:-!:#, 1203#-!05!
1591) fSZ:-!:#, 1203#-!06!
1592)]>DS<!(/ *i@ (0-#)116!

:2"8+5+%+52"7B#:2%"&/U/5D,+8#:B750)#82#2..285+52"#+2#D7F#07//57D>&8#"2+#,7; &#+, ͦ &#B&D7B#
&&&+, #2/#8+7F5"D#.2A&/0^%+M,5B#/5D,+5"#2..285+52"#+2#7"2+, &/#/5D,+ #./2;56&8#+, +#87B5&"BF#
.2A&/3%B#7/D%0&"#)7+7: ,5"D#7"F#F.#<&B5&3#+2#7#/5D,+D5; &8#+, 7+#<&B5&3#+, &#:7.7<5B5+F#+2#
5"3B%&" :&#.2B5+5:80#g&8&D/&D7+52"#A78#+, &#/22+#23#&;7"D&B5:7B8N#.2B5+5:7B#3/%8+/7+52"8#5"#+, 8U
+A&"5&+, #:&"%+F)#<+#5+#B7:P&6#7#65/& :+#:2%"&/U/5D,+8#:B750#+, 7+##;7"D&B5:7B8#:2%B6#%8&G#
R2A&;&/)#<&:7%8&#+, &/&#A78#7#8+&76F#C8+/&70#23#/5D,+8U+7BPE#A5+,5"#+, &#&;7"D&B5:7B#7"+5U7<2/+52" #
02; &0&"#3/20#5+8#:2":& .+52"#5"#+, &#B&76U% .#+2#+, &#=>Z*#&B&:+52")#M&F/5: ,#A78#7<B&#+2#:2""& :+#
+, &5/#2..285+52"#+2#6&8&D/&D7+52"#+2#+, &#d5/8+#90&"60&"#7"6#/&B5D52%8#3/&&620G#H,2%D, #+, &#
1, /58+57"#J5D, +8+/%DDB&6#+2#B&D7BBF#2..28&#D2; &/"0&"#7: +52"8#A5+, #/&B5D52%8BF#D/2%"6&6#02/7B#
7/D%0&"#8)#<F#6&.B2F5"D#+, &#B7"D%7D#B5<&/7B580#7"6#/5D,+8)##;7"D&B5:7B8#+/"/&6#+, &5/#/&B5D52%8#
<&B5&385"+2#.2B5+5:7B#<&B5&38#+, %8#7BB2A5"D#32/#+, &5/#7/D%0&"#8#+2#D75"#:2"8+5+%+52"7B#&D5+507:FG##
J&7D7"N8#:70.75D"#/, &+2/5:%#8&6#+, 58#/5D,+8#B7"D%7D&#A, &"#658:%885"D#&;7"D&B5:7B#
.2B5+5:7B#3/%8+/7+52"8#2; &/#6&8&D/&D7+52")#A,5: , #:2"8&`%&"#57BBF#8,2A&6#&;7"D&B5:7B8#+, 7+#J&7D7"#
85":&/&BF#7"6#6&&.BF#%"6&/8+226#+, &0G#J&7D7"#D7; &#A,5+R%+, &/"#&;7"D&B5:7B8N#:2":&/"8#
"7+52"7B#.2B5+5:7B#B&D5+507:F#<F#2.&"BF#658:%885"D#7"6#+, &/&<F#;7B567+5"D#+, &5/#/5D,+8U<78&6#
:B7508G#98#7#<F./26% :+#)J&7D7"#7B82#078P&6#+, &#/#:57B#./&L%65: &#+, 7+#02+5;7+&6#&;7"D&B5:7B8#+2#
&/U&"&/#.2B5+5:8#<&:7%8&#+, &#/&5&/7+&6#+, 7+##;7"D&B5:7B8#A&/&#/&7: +5"D)#"2+#2#6&8&D/&D7+52")#<%+#+2#
+, &#D2; &/"0&"#N8;52B7+5"D#+, &5/#d5/8+#90&"60&"#:#:2"8+5+%+52"7B#/5D,+8G#d2/#&T70.B&#)J&7D7"#
"&;&/#&T.B5:5+BF#8756#+, &#A2/6#C6&8&D/&D7+52"E#5"#, 58#8.&&: , &8G#^"8+76)#<F#32:%85"D#2"#+, 5"D8#
B5P&#D2; &/"0&"#2; &/&/7: , #7"6#8&:%B7/58+#5"3/5"D&0&"#8#%.2"#/&B5D52%8#3/&&620)#J&7D7"#
7/+5:%B7+&6#&;7"D&B5:7B8N#:2":&/"7"6#%" ,7..5"&88#7<2%+8&D/&D7+52"#5"#:2""& :+52"#+2#7#
:2"8+5+%+52"7B#/5D,+8A,5: , #8&/; &6#78#7#:2; &/U%.#32/#&;7"D&B5:7B8N#+/&#/#:57B#02+5;7+52"8G#^"#, 58#

g7BB78#12";&"52"#1&"&/#8.&&:,)#J&7D7"#8,70&6#+,&#^J-#32/#5+8#C%":2"8+5+%+52"7B#/&D%B7+2/F#
7D&"67 k 7D75"8+#5"6&."6&"#8:,22B8E#7"6#/&3/70&6#+,&#^J-N8#7:+52"8#78#5"3/5"D&O&"8#%.2"#

8&D/&D7+52"#7"6#% . ,2B65"D#A ,5+% . /& 0 7:F)#J &7D7"#A78#7<B#62#+, &#:/5+5:7B#A2/P#23#; &/<7BBF#
</276&"5"D#&; 7"D&B5:7B8N#35D ,+#7D75"8+#+, &#D2; &/" 0 &"#7A7F#3/2 0 #6&8&D/&D7+52"#+2# . /2+&:+5"D#
&#B5D52%8#/5D ,+8)#A ,5: ,#8 ,2A&6#&; 7"D&B5:7B8#+, 7#+, &#A78#7# . 2B5+5:57"#+, &F#:2%B6#8% . . 2/+G#M ,5+&#
8% . /& 0 7:F# . B7F&6#7# . 5; 2+7B#/2B"#+, &#=>Z*#&B&:+52")#<%+#+, &#:#2" "&:+52"#"<+A&&"#&; 7"D&B5:7B8#
7"6#% . ,2B65"D#A ,5+% . /& 0 7:F#656#"2+8+7/+5"#+=>?=#2/#73+&/#I/&856&"#1 7/+&/N8C7+7:PE#2"#"
1 ,/58+57"#8: ,22B8C#R58+2/57"8# . 25"#+2%+#+, 7+#+, &#:#2" "&:+52"#"<+A&&"#&; 7"D&B5:7B8#7"6#A ,5+&#
8% . /& 0 7:F# ,78#&; 2B; &6#+, /2%D, 2%+#+, &#:#2" "+/FN8#, 58+2/F#7"6#+, 7+82%+, &/"#&; 7"D&B5:7B8#, 7; &#
. /2+&:+&6#A ,5+% . /& 0 7:F)#7+#+; 7/F5"D#5"+"&85+5&8)#+, /2%D, 2%+#+&; 7"D&B5:7B8N#, 58+2/F#5"#9 0&/5:7G##
O; 7"D&B5:7B58 0#67+&8#<7:P#2#&7/BF#&5D ,+&&"#, U:&"%+&/F#/&B5D52%8#/&; 5; 7B8#, 7. . &"5"D#5"#"
O%/2 . &#A5+, #+, &#CI5&+58+0 2; & 0 &"")E)^&+5"#"Q/&7+X/5+75"#A5+, #+, &#C S &+, 2658+/#&; 5; 7B)E)^"6#5"#"
h 2/+, #9 0&/5:7#A5+, #+, &#CQ/&7+9 A7P&"5"D)E)^&#<&D5"5"D#5"#"=?@>G#O; 7"D&B5:7B58 0#, 78#<&&"#5"#"
9 0&/5:7#85" :&#+, &#:#2" "+/FN8#:2" :& . +52"K)^&S#5"#"
)#J 7"67BB#X7B 0 &/ :B75 0 8#+, 7+#+, &#- &:#2"6#Q/&7+9 A7P&"5"D)#5"#+, &#&7/B+8&; &"&&"#, #:&"%+&/F)#
C%+&/BF#/&8, 7. &6#/&B5D52"5"#"9 0&/5:7E)^"6#+, 7+)#C7856/2 0#+, 5; 5B#M7/E)^#A78#C+, � 28+
:#2"8&`%&"+57B#&; &"#5"#"9 0&/5:7"#" ,58+2/FGE)^&'#H, 58#8&/5&8#23#I/2+&8+7"#+/&; 5; 7B8)#A ,5: ,#22P# . B7:&#
5"#+, &#A7P#+, 	 0&/5:7"#"J &; 2B%+52"7:/288#+, &#h &A#O"DB7"6)#1 % 0 <&/B7"6#p 7BB&F)#7"6#
% . 8+7+&#h &A#e 2/P#/&D52"8)#:/&7+&6#7#, %DA &/85+F#23#+, 2%D, +7 0 2"D8+/#&; 5; 7B58+#+, 5"P&/8G# S 7"F#
&/&; 5; 7B58+&#; 7"D&B5:7B8)#78#X7B 0 &/#&T . B75"8)#<&B5&; &6#+, 7+#+, &F#C<2/#/&8 . 2"85<5B5+F#32/#+, &#
5 0 . /2; & 0 &"#23#82:5&+F)E#82#+, &F# . 756#8 . &:57B#7+&"+52"#+2#+, &#C5"+&/&8+8#23#+, 28&# 0 28+
; %B"/7<B&E)^&(#A5+, # 0 7"F#32:%85"D# . 78852"7+&#&332/+8#2"#82:57B#/&32/ 0 8#<&:7%8&#+, &F#A7"+"&6#2#

+78P&6#A5+, #8%<8+7"+57+5"D#X7 . +58+#D27B8#7"6#; 7B%&8G#H, &#H/5&""57B#12"; &"+52"#A78#, &B6#&; &/F#
+, /&&#F&7/8)#5"#A, 5: , #CX7 . +58+8#D7+, &/&6#2#: 22/65"7+&#+, &5/#: , %/: , #7"6#058852"8#A2/P#5"#+, &#&7/BF#
&5D, +&&"#, %"6/&68GE)'\$#R2A&; &/)#73+&/#C6&: 76&8#23+&"852")E-)'%#+, 58#%"52"#: 2BB7 . 8&6G#H, &#: &"+/7B#
/&782"#A78#+, 7+#X7 . +58+8#5"#+, &#h2/+, #7"6#X7 . +58+8#5"#+, &#-2%+, #6587D/&&6#7<2%+C+, &#
:20 . 7+5<5B5+FE)'#8B7; &, 2B65"D#7"6#+, &5/#/&B5D52"G##

J &; &/&"6#g /G#X785B#S7"BF#- /G#A78#7#, %D&BF#5"3B%&"+57B#7"6# . /205"&"+#82%+, &/"#X7 . +58+G#
!"#h2; &0<&/#'a)#=Z()#S7"BF#7"6#7#D/2% . #23#2+, &/#X7 . +58+#B&76&/8#8&"+#7#B&+&/#2#+, "7D5"D#
<27/6#23#+, &#H/5&""57B#12"; &"+52"G#H, &F#6&07"6&6#C+, ʒ+5":+)#&T . B5:5+#7; 2A7B#+, 7+#
8B7; &, 2B6&/8#7/&#&B5D5<B&)#7"6#&"+5+B&6)#&`%7BBF#A5+, #"2"8B7; &, 2B6&/8#i j)#+2#7BB#+, &# . /5; 5B&D&8#
7"6#500%"5+5&8#23#+, &5/#8&; &/7B#%"52"8GE)''

1 2 " ; & " + 5 2 " # b - X 1 c 0 (+ # X & : 7 % 8 & # " 2 / + , & / " # & ; 7 " D & B 5 : 7 B # 7 < 2 B 5 + 5 2 " 5 8 + 8 # + , / & 7 + & " & 6 # 8 2 % + , & / " #
& ; 7 " D & B 5 : 7 B 8 # A , 2 # A 7 " + & 6 # + 2 # 0 7 5 " + 7 5 " # / 7 : 5 7 B # . % / 5 + F) # 8 2 % + , & / " # & ; 7 " D & B 5 : 7 B 8 # 6 5 8 7 3 3 5 B 5 7 + & 6 # 3 / 2 0 # + , & #
H / 5 & " " 5 7 B # 1 2 " ; & " + 5 2 " # 7 " 6 # 3 2 / 0 & 6 # + , & 5 / # D / 2 % . # % " 6 & / # + , & 5 / # 2 A " # 7 % + , 2 / 5 + F 0 # 9 3 + & / # , & B . 5 " D # + 2 # : / & 7 + & #
+ , & # - X 1) # S 7 " B F #

M, 5+R%+, &/"#&; 7"D&B5: 7B8#%8&6#B5+&/7B#5"+&/ . /&+7+52"8#23#+, &#<5<B: 2"35/ 0#+, &#
8% . /& 07: F#23#A, 5+&# . &2 . B"6#L%8+53F#+, &5/#&332/+8#5"#8%<L%D7+5"D#9 3/5: 7"# . &2 . B#8B7 ; &/FG)^(#
H, &#A2#0 28+23+&"#: 5+&6#8: /5 . +%/&8<F#A, 5+&#&; 7"D&B5: 7B#1 , /58+57"8#5"#+, "+&<&BB% 0#- 2%+, #A&/&#
Q"&858#>||=ZU' ?#7"6#O . , &857"8#\Wau?)**#7B2"D#A5+, #+, +2/F#23# 175"#7"6#9<&BG+*)#Q"&858#>||=ZU
' ?#58#7#8+2/F#7<2%+ #h 27, #5"#A, 5: , #h 27, #: %/8&8#, 58#82"#R70)#+, %+, &/#23# 17"77"6#R70#8&&8#, 58#
37+, &/#7P&6#73+&/#h 27, #37BB8#78B&& . #6/%"P)#7"6)#A, &"#h 27, #A7P&8#% . #7"6#&/7B5_&8#+, 58)#h 27, #
8+7+&8)#C 1 %/8&6#<"77"K#7#8&/; 7"+#23#8&/; 7"+8#8, 7BB#, &#<&#%" +2#, 58#</&+, /&"G#9"6#, ∴)#
XB&88&6#<&#+, &#V2/6#Q26#23#- , & 0K#7"6#17"77"#8, 7BB#<&#+, 58#8&/; 7"+GE+*+X%+B&/#7/D%&8#+, 7+#C+, 58#
8: /5 . +%/&#<&: 70 &#+, %"67+52"#23#<5<B5: 7B#L%8+535: 7+52"#32/#8B7 ; &/FE+* . #<&: 7%8" &+&&" +, U
: &" +%/F#C&T . 285+2/8E+*#% "6&/8+226# 17"77"#78#9 3/5: 7#7"6#R70#78#<B7: P# . &2 . B&G+*#S\$2" &8#7668#+, 7+#
A, 5+ , /58+57"8#7B82#<&B5&; &6#<B7: P# . &2 . B&#A&/&#+, &#C6&8: &"67"+8#23# 175"GE+*#M, 5+ , /58+57"8#
%"6&/8+226#67/P&/#8P5"#78#+, ͦ &# . , F85: 7B#07/P#Q26# . %+#2"#175"#73+&/#175"#P5BB&6#9<&BG+*#&
S &7"5"D)#78#\$2" &8#"2+&8)#+, 7+#C5"#+, 58#"7//7+5; &#)+, /5D5"7B#<B7: P#7" : &8+2/#A78#7#: /505"7BGE+*# #
\$2" &8#&T . B75"8#+, 7+#, 58#%"6&/8+7"65"D#50 . B5&6#2#A, 5+&#&; 7"D&B5: 7B#I/2+&8+7"+8#+, 7+#<B7: P# . &2 . B&#
CB5P&BF#5" , &/5+&6#"2+#2"BF#+, &5/#7" : &8+2/N8# . , F85: 7B#658+5" : +5; &"&88#<%+7B82#, 58#5"3&/52/#02/7B#
: , 7/7: +&/GE+*#(H, 58# . 7/+5: %B7/#% "6&/8+7"65"D# . /&8&" +8#A, 5+% . /& 07: F#78#"2#0 &/&BF#7# . 7885; &#
 . , &"20 &"2"K#5+#7: +5; &BF#35"68#37%B+8#5"#7"6#6&02"5_&8#8B7 ; &8G#X&: 7%8&#A, 5+R%+, &/"#
&; 7"D&B5: 7B8#5"+&/ . /&+&6#8: /5 . +%/&#B5+&/7BBF)#; &/8&8#5"#O . , &857"8#\Wau?)#A, 5: , #2 . &"BF#&/&3&/&" : &#
8B7 ; &/F)#; 7B567+&6#+, "8+5+%+52"#23#8B7 ; &/FG#X%+B&/# , 5D, B5D, +8#+, 7+#, 58#; &/8&#A78#%8&6#2#8, 2A#

^1)] Cb\$e!N#0, i86(13, 0"(8!, 5!
**!] Cb\$e!N#0, i86(13, 0"(8!, 5!
**!2#3S: !N#0, i: \$\$i4\$13!, 5!
**!Y\$3S: !4!0J!! j=3M!2(DS: !n S<: #37!) Cb\$e!N#0, i86(13, 0"(8!, 5!
**!] Cb\$e!N#0, i86(13, 0"(8!, 5W, K!
**!] Cb\$e!N#0, i86(13, 0"(8!, 5W, K!
**!] Cb\$e!N#0, i86(13, 0"(8!, 5W, K!
**!2#3S: !N#0, i: \$\$i4\$13

C+, 7+#8B7; , 2%B6#/& 0 75"#62: 5B"6#2<&F#+, &5/# 0 78+&/8E+)*#<&: 7%8+#A78#CQ26N8#A5BB#+, 7+#+, &F#
A&/B7; &8GE+)>#H, &8&#: , &/FU. 5: P&6#<5<B5: 7B#. 7887D&8#D7; &#&; 7"D&B5: 7B8#+, % "67+52"7B#
/&B5D52%8#&; 56&": &#+2#L%8+53F#7#A, 5+% . /& 0 7: 58+#56&2B2DF#A, 5: , #8%<8&`%&" +BF#5"3B%&": &6#, 2A#
&; 7"D&B5: 7B8#% "6&/8+226#<2+, #+, & 0 8&B; &8#7"6#<B7: P#8B7; &8G##

M, 5+R%+, &/"#&; 7"D&B5: 7B8#%85"D#<5<B5: 7B#8: /5. +% /&#+2#8%<8+7"+57+&#+, % . /& 0 7: F#23#
A, 5+&#. &2. Bᷱ+52"7BBF# 0 2B6&6#+, "8+5+%#8B7; &/F#5+8&B3G#H, <B&#, 78#. 7887D&8#+, 7+#<2+, #
7: :& . +#78#A&BB#78#: 2"6& 0 "8B7; &/F)+>#<%+#A, 5+ , /58+57"8#7: +5; &BF#658: 2%"&6#+, "+5U8B7; &/F#
/, &+2/5: G#M, 5+&#&; 7"D&B5: 7B# 1 , /58+57"# 0 58852"7/5&8#</2%D, +#C8B7; &#<5<B&8E#2#+, 7/5<<7"#A, 5: , #
&T: B%6&6#7<2%#C>*#. &/: &"#23#+, &# ! B6#H&8+7 0 &"#7"6#7<2%#+, 7B3#23#+, &#h &A#H&8+7 0 &" +GE+)>#S2" &8#
7335/ 0 8#+, 7+#+, &8<B&8#& 0 . , 785_&#C. 7887D&8#6& 0 7"65"D#2<&65&": &#+2# 0 78+&/8#7"6 k #&T: B%6&#
. 7887D&8#8%DD&8+5"D#&`% 7B5+F#2/#B5<&/7+52"GE+)>#XB7: P#8B7; &8#5"# 9 0 &/5: 7#A&/&# . /2, 5<5+&6#3/2 0 #
/&765"D)#82#A, 5+B7; & , 2B6&/8#A2%B6#</5"D#<B7: P#8B7; &8#2#: , %/: , #82#+, &F#A2%B6#< /: &6#+2#
 , &7/#+, <B&N8#8: /5. +% /7B#L%8+535: 7+52"#/7+52"7B5_5"D#+, &5/#8%<L%D7+52"G+)>#S# - 2%+, &/"#&; 7"D&B5: 7B8)#
% "6&/8+7"65"D#"2"UA, 5+&#. &2. BN#5 0 . %/&#&; &"#75"+&6)#3&B+#+, 7+#A, 5+&"&88#, 76#+2#<&# . /2+&: +&6#
7D75"8+7/7: 57B#: 2"+7 0 5"7+52"G#d/#&T7 0 . B&)#8B7; &8#7"6#8B7; & , 2B6&/8#: 2%B6#"2+#8, 7/&#+, W 0 &#
6/5"P#6%/5"D#: , %/: , #8&/; 5: &8G

M, 5+&# 1 , /58+57"8#/& : &5 ; &6#5"8+/% : +52" #5" #+ , ŷ+ , #3/2 0 #A , 5+&# 0 5"58+&/8#A5+ , #7#C67/P)#
7<565"D)#85D"5"D#9 3/5: 7" # . /&8& " : &E#B5+&/7BBF#8&7+&6#<& , 5"6#+ , &5/#<7 : P8#2/#7<2 ; &#+ , &5/#
, &7680#M , 5B&#" 2+5" #A , 5+&# : 2"D/&D7" +8N#35&B6#23# ; 5852"#6%/5"D#+ , &/ ; 5 : &)#+ , 58#B22 0 5"D#
./&8& " : , 7 . &6#A , 7+ : 2%B6#<&# . /7 : +5 : &600G#7" 6# . /&7 : , &6 k #7" 6# , 2A#A , 5+&# 1 , /58+57" 8#
: 7 0 &#+2#& 0 <26F#7" 6#% "6&/8+7" 6#+ , &5/#375+ ,)#D& " &/7+52" #73+&/#D& " &/7+52" G##
H , &#&33& : +#23#+ , &#& " 8B7 ; &6# 9 3/5: 7" #9 0 &/5: 7" # . /&8& " : " #&7/BF#A , 5+&# 9 0 &/5: 7" #
1 , /58+57" 5+F)#7" 6#+ , &#A , 5+% . /& 0 7: 58+&<&B5&38+ , 58#% " , 2BF#7//7"D& 0 & " # : 2" L%/&6)#A78)#23#
: 2%/8&)#" 2+&6&35" &6#+2#+ , W" : +% 7/FG#V5P#658+7" # . B7" &+A , 28&# . /&8& " : :#6&+& : +&6#<F#
5+8#&33& : +#2" #+ , <L& : +8#7/2% " 6#5+)#+ , 58#% " 7: P" 2AB&6D&6#<B7 : P# . /&8& " : &#&T&/+&6#7#8+/2" D#

82)#7"F#1 ,/58+57"#8B7 ;& ,2B6&/#7<%85"D#8B7 ;&8#A78#7"#5"65 ;56%7B# . /2<B& 0#7"6#7#/#8%B+#23#+ ,7+#

8B7 ;& ,2B6&/# 0 58% "6&/8+7"65"D# ,58#/2B&)"2+#7#/#3B& :+52"#23#1 ,/58+57"5+F#5+8&B3G#\$2"&8#8% 0 07/5_&8#

+ ,58#+ ,&2B2D5:7B#7 . . /27: ,#+2#8B7 ;&/F#

iM ,5+B7 ;& ,2B65"D#& ;7"D&B5 :7B8#<&B5& ;&6j#+ ,7+#7+#7BB#+5 0 &8)#5"#7BB#:2% "+/5&8)#A ,5+&8# ,7 ;&#
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&/&:#+, &5/#8+7"6#5"#+, &#./&8&":#, &#. %B.5+)#7"6#+, &F#0%+%7BBF#, &B.#&7:, #2+, &/G#H, &#
6&7B&/#D5; &8#, 58#<B226U8+75"&6#D2B6#+2#8% . .2/+#+, &#. %B.5+)#7"6#+, &#. %B.5+)#5"#+/#+%/)"# :2; &/8#
, 58#5"3&/"7B#<%85"&88#A5+, #+, &#D7/<#23#1, /58+57"5+FG#R&/&#A&#, 7; &#/&B5D52"7"6#/2<<&/F#+, &#
7BB5&8#23#&7: , #2+, &/U6&; 5B8#6/&88&6#5"#+, "D&B8N#/2<&8)#7"6#, &BB#./&8&"5"D#+, &0<B7":&#
23#.7/7658&G⁺&##

g 2%DB788#6&8:/5<&6#1, /58+57"#8B7; &, 2B6&/8#78#C+, &#A2/8+E⁺⁺'#7"6#37/#02/&#C:/%&B#7"6#

:2A7/6BFE⁺⁺(#+, 7"#2+, &/#8B7; &, 2B6&/8G# g 2%DB788#% "6&/8+226#+, 7+#1, /58+57"5+F#A78#"2+#+, &#C<&"5D"#

7"6#./2+&: +5; &E#32/:D75"8#+:/%&B+F#+, 7+#&; 7"D&B5:7B8#./&+&"6&6#5#+2#<&G#1, /58+57"5+F#A78#+, &#

82%/:"6#0&/: , 7"+#23#, &#:/%&B+FG##

H, ʒ.7/5+F#<&+A&&"#A, 5+R%+, &/"#8B7; &, 2B65"D#1, /58+57"8N#, &+2/5:#7"6#+, : :2%"+8#

3/20#8B7; &8#8, 2A8#+, 7+#+, &#A2/P#A, 5+R%+, &/"#1, /58+57"#!/&B5D52%8#B&76&/8#656#+2#<5<B5:7BBF#

L%8+53F#7"6#B&D5+505_B7; &/F#<B5"6&6#82%+, &/"#&; 7"D&B5:7B8#+2#A, 5+%./&07:FN8#3&8+&/5"D#

A5+, 5"#+, &5/#/&B5D52"G#X&:7%8&#&; 7"D&B5:7B8#% "6&/8+226#8B7; &/F#78#. &/05885<B&#A5+, 5"#+1, /58+57"5+F)#

7"6#1, /58+57"#: , %/: , &8#&; &"#&":2%/7D&6#8B7; &/F)#+, R:57B#8+7+%8#23#<&5"D#7#8B7; &, 2B6&/#A78#

&B&; 7+&6#A5+, 5"#+, &#&; 7"D&B5:7B#1, /58+57"#: 2000%"5+FG⁺, *#9665+52"7BBF)#A, 5+R%+, &/"#

&; 7"D&B5:7B8#<&B5&; &6#+, 7+#7#<B7:P#. &/82"#"<&5"D#&"8B7; &6#<F#7#A, 5+, /58+57"#"A785", &/&"BF#

C"2#B2"D&/#, 2. /#L%8+5: &#). /2+&: +52")#2/#873&+FE#23#, &5/#C. &: %B57/#. /2. &/+FGE+##H, &#C. &: %B57/#
. /2. &/+FE# O &7" +#8B7; &8G##

S 7"BF#<&B5&; &6#+, 7+#8B7; &/F#A78#. /2+&: +&6#<F#, 2"8+5+%+52")+#)#82)#<F#"2+#: 2"6& O "5"D#
+, <2B5+52" #0 2; & O &" +)#+, "5+&6#- +7+&8#D2; &/ " O &" +#A78#"2#B2"D&/#/&8. &: +5"D#, 2"8+5+%+52" #
A, 5: , #0 &7" +#, 7+#9B7<7 0 7#X7. +58+8#A&/&#"2+#873&G^3+, &6&/7B#D2; &/ " O &" +#, 76#/&<%P&6#
7<2B5+52"58+#56&78)#+, &#. /2U8B7; &/F#. 285+52" #A2%B6#, 7; &#<&"#D5; &"#. 2B5+5: 7B#; 7B565+F#7BB2A5"D#
&; 7"D&B5: 7B8#+2#% . , 2B6#A, 5+% . /& O 7: F# O 2/&#&785BF# S 7"BF#. /2. 285"D#, 7+#9B7<7 0 7#8&. 7/7+&#
3/2 O #+, "5+&6#- +7+&8#2. &" &6#+, &#. 2885<5B5+F#32/#&; 7"D&B5: 7B8#+2# O 75"+75"#7#/7: 57B#8&. 7/7+52" #
<&+A&&"#+, & O 8&B; "6#"2"UA, 5++, &/8G#H, 58#5"8+5": +#2#8&. 7/7+&#: 7BB8#<7: P#+2#, / O 7+52" #23#
+, &#- X 1 #7"6#+, 58#+, & O &#A2%B6#: 2"+5"%#5"3B%&": &#&; 7"D&B5: 7B#<&, 7; 52/#5"+2#, &#A&" +5&+, #
: &" +%/FG##

d/7 O 5"D#&; 7"D&B5: 7B8N#% . 8&+#78#7#/#8%B+#23+, "5+&6#- +7+&8#D2; &/ " O &" +N8#"L%8+#7: +52"8)#
S 7"BF)#/& O 7/P7<BF)#A78#7<B&#+2#: , 7"D&#+, &#/22+#23&; 7"D&B5: 7B#: 2": &/ "#+2#7#. 7+/52+5: #6&3&"8#
B5<&/+F#5"8+&76#23#7#6&3&"8#/7: 57B#. /&L%65: &G#H, 2%D, # S 7"BF#7"6#2+, &/#&; 7"D&B5: 7B8#656#"2+#
&T. B5: 5+BF#6&"F#, &5/#/7: 57B#. /&L%65: &#<F#3/7 O 5"D#, /5D5"#23&; 7"D&B5: 7B8N#% "/&8+#78#7#/#8%B+#23#
+, "5+&6#- +7+&8#D2; &/ " O &" +; 52B7+5"D#7#/5D, +)# S 7"BF#</276&"&6#+, &#. 2+&" +57B#67"D&/#+2#"2"U
&; 7"D&B5: 7B8#78#A&BB#78#&; 7"D&B5: 7B8#7"6#. /&35D%/&6#+, &#/5D, +8#B7"D%D&#%8&6#<F#&; 7"D&B5: 7B8#7"6#
J&7D7"#5"#+, &#A&" +5&+, #: &" +%/FG#H, &#+, /&7+&" &6#/5D, +8#5": B%6&6#+, &5/#: 2"8+5+%+52"7B#/5D, +#2#2A" #
+, &5/#C. &: %B57/#. /2. &/+F)E#<%+#7B82#, &5/#7<5B5+F#2#3/&&BF#. /7: +5: &#+, &5/#/&B5D52%8#<&B5&38)#82# S 7"BF#
%/D&6#9B7<7 0 7#+2#. /2+&: +#5+8&B3#7"6#8&. 7/7+&G#9 665+52"7BBF)# S 7"BF#6&. 5: +&6#&; 7"D&B5: 7B8#7"6#7BB#
23#, &#- 2%+, #78#; 5: +5 O 8#23#7#+F/7" "5: 7B)#7%+, 2/5+7/57"#D2; &/ " O &" +#A, 5: , #58#7"2+, &/#+, & O &# J &7D7" #
%8&6G# S 7"BF#5 O . B5&6#+, 7+#<&: 7%8&#+, "5+&6#- +7+&8#A78#"2+&": 2%/7D5"D#A, 5+% . /& O 7: F)#5+#A78#

5. 82#37: +2#&"67"D&/5"D#82%+, &/"/&8N#: 2"8+5+%+52"7B#/5D, +8G#XF#625"D#82)# S 7"BF#&8+7<B58, &6#+, 7+#+, &#
4"5+&6#-+7+&8#3&6&/7B#D2; &/" 0 &"#A78#7+37#B+#7"6"9B7<7 0 7#&; 7"D&B5: 7B8)#78#A&BB#78#+, &5/#<&B5&38)#
A&/""2: &"#7"6#. &/8&: %&6G##

S 7"BF#A78#&B&: +&6#2#8&/; N#: , 7. B75"#+2#+, 	B7<7 0 7#- &: &8852"#12"; &"#52")#7"6)#A, &"#
9B7<7 0 7#; 2+&6#2#8&: &6/2 0 #+, "5+&6#-+7+&8)#, &#, &B. &6#6/73+#9B7<7 0 7N#8+7+&#: 2"8+5+%+52"6#
S 7"BF#A78#A56&BF#P"2A"#7:/288#+, "3&6&/7+&#-+7+&8)#7"6#, &#D7; &#+, . &"5"D#./7F&/#7+#+, &#
I/2; 5852"7B#12"D/&88#23#+, "3&6&/7+&#-+7+&8#g%/5"D#+, 58#12"D/&88)#5"#7665+52"#+2#7P5"D#:/&65+#
32/#+, "3&6&/7+"8+5+%+52")# S 7"BF#5"; 2P&6#C+, % 2/#23#+, 	B 0 5D, +FE+##7"6#78P&6#Q26#
+2#./2+&: #+, "3&6&/7: F#82#+, 7+#5+#A2#B6#B78+#C78#B2"D#78#+, #"7"6#+, � 22"GE+## S 7"BF#D7; &#
+, "7%D%/7B#766/&88#7+#\$&33&/82"#g 7; 58N#12"3&6&/7+&#./&856&"#57B#5"6%: +52"#7"6#"2+7<BF#/26&#
A5+, #g 7; 58#7"6#+, &#p5: &#I/&856&"#+2#+, ᷲ/&88G+## S 7"BF#<&: 7 0 &#+, ट: 57B#: , 7. B75"#+2#+, &#
12"3&6&/7: F#7"6#& 0 75" &6#: , 7. B75"#+, /2%D, 2%#+, 5B#M7/G#\$2" &8#6&8: /5<&8#, 5 0 #78#C7#
8+&76378+#7"6#82%D, +U73+&/#&B5D52%8#; 25: &#L%8+53F5"D#8B7; &/F#7"6#A, 5+%./& 0 7: FGE+## S 7"BF#N8#
5"3B%&" : "#+, "3&6&/7: F#: 7" "2+#< &/8+7+&6K#&; &/F#8+&. #23#+, &#A7F)#, &#A78#+, &/&#./2; 565"D#
65; 5" &#L%8+535: 7+52"#32/#&; &/F+, 5"D#32/#A, 5: , #+, "3&6&/7: F#8+226#3%/+, &/#&"#7"DB5"D#
&; 7"D&B5: 7B58 0 #7"6#A, 5+%./& 0 7: F#5"#+, &#./2: &88G##

9B+, 2%D, # S 7"BF#N8#C8%: : &88#7"6#5"3B%&" : &#A&/&#. &/, 7. 8#%" 0 7+: , &6)E+##%\$2" &8#&T. B75"8#
+, 7+#C+, &#</276#5"3B%&" : &# , &# , 76#78#7#/#&B5D52%8#&76&/#A78#"2+##"5`%&GE+##&#O; 7"D&B5: 7B#B&76&/8#, 76#
D/&7#8A7F#2; &/#+, &5/#6&"2 0 5"7+52"8)#7"6# 0 7"F#%8&6#+, 7+5"3B%&" : #&8. 2%8&#+, "3&6&/7: FG#
d2/#&T7 0 . B&)#+, &#- X 1)#5"#5+8#5"5+57B#C9 66/&88#2#+, &#I%<B5:)E#: B75 0 &6#+, 7+5+8#2" "6#2"BF#

S! [C>\$<!/#(=(01i+St+#, i / \$JA, *) ("?"04+! pC#S)!F-#D!2#3S: !N#0+, i: \$\$!4\$!3!165!
SR! [C>\$<!/#(=(01i+St+#, i / \$JA, *) ("?"046! pC#S)!F-#D!2#3S: !N#0+, i: \$\$!4\$!3!165!
*S\$!2#3S: !N#0+, i: \$\$!4\$!3!165!
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./& 0 5BB&" "57B58+#A2/B6#58#35BB&6#A5+, #67"D&/2%8#&; 5B8)#7"F#5"L%8+5: %"6#2"#O7/+, #A78#"2/ 0 7B#
7"6#"2+#7#C: 7BB#32/#7: +52"E+%"#2/#&; 7"D&B5: 7B8N#/#&8. 2"85<5B5+F#+2#35TG#H, 58#+, &2B2D5: 7B#/#&2/5&" +7+52"##
A2%B6#, 7; UD"535: 7"#+. 2B5+5: 7B#5 0 . B5: 7+52"8#5"#+, &#. 28+U 15; 5B#M7/#. &/526)#7"6#5+#A2%B6#
&; &" +% 7BBF# . /2; 56&/+5B̹B#32/#+, &5/#. 2B5+5: 7B#/#7A7P&"5"D#5"#+, &#=>Z*8G##

I)/& 0 5BB&" "57B58 0 #7<82B; &8#&; 7"D&B5: 7B8#23#7"F#/#&8. 2"85<5B5+5&8#+, &F# 0 7F#, 7; &#+2#+, &#
</276&/#: 2 0 0 %"5+F6#^3#87B; 7+52"6& . &"68#2"#+, "65; 56%7B#7B2" &)+, "BF#7: +52"8#7"5"65; 56%7B#
, 78#2#62#32/#+, &#: 2 0 0 %"5+F#7/#: +52"8#+, 7+&#"&35+#+, "65; 56%7B#H, 58#A78#7"5 0 . 2/+7" +#37: +2/#
5" #&; 7"D&B5: 7B8#<&: 2 0 5"D#B&88#5" : B5"&6#+2#: 7/#<2%+#82: 57B#588%&8#2/#/#&32/ 0 8#<&: 7%8&)#78#\$2" &8#
&T. B75"8)+, &F#8, 53+&6#+, &5/#C7+&" +52"3/2 0 #+, &#: 2BB&: +5; BB8#23#82: 5&+F#+2#+, WB; 7+52"23#
5"65; 56%7B8GE+%"#O; 7"D&B5: 7B8#<&D7"#+2#<&B5&; &#+, 7+2" &# 0 %8+ . /2+&: +2" &N8#2A"#8&B3#3/2 0 #&; 5B#7"6#

X&:7%8&#CA,5+&#&;7"D&B5:7B8N#: %B+% /7B#+22B#P5+:2"858+8#23#+22B8#+,7+#/&8+/5: i+j#+, &5/# 0 2/7B#;5852"#+2#
+,&#.&/82"#7"6#5"+&/.&/82"7B#/&7B 0 8 k #i+,&F#8:/&&"j#2%+5"8+5+%+52"7B#2/#8+/%: +% /7B#588%&8)E+% (#
0 &7"5"D#&;7"D&B5:7B8#</276BF#<&B5&;&#+,7+<B7 0 &#/&8+8#82B&BF#2"#7"5"65;56%7B#32/#7"F#588%"&#
0 7F#<%:5"D#5"#2"&N8#2A"#B53&G# I /& 0 5BB&" "57B58 0 #3/7 0 &8#+, "65;56%7B#]#A,7+#2">&8)#87F8)#
7"6#<&B5&;&8#]#78#+, &#:/%T#23# 0 2/7B#:2"8&`%&":&G#93+&/#+, &# 1 5;5B#M7/)#A,5+R%+, &/"#

3&7+%/#./2.&/#82%+, &/'#: %B+%/&G#H, &: 2"6#<22P#8, 53+&6#6/7 0 7+5: 7BBF#7" 6#7/D%&6#+, 7+#+, &#
1 2"3&6&/7++7+&8#, 76#/&<&BB&6#+2#./2+&: +#8+7+R &/&5D"+FG+&)#R58#8&: 2"6#<22P#: 7BB&6#32/#7#CA7/#
23#56&78E+&#+2#./&8&/; R%+, &/'#: %B+%/" 6#5"8.5/&6#7#0 2; &0 &"+#7"6#: 5; 5B#/&B5D52"#+, 7+#+, 78#<&&"#
A56&BF#/&: 2D"5_&6#<F#8: , 2B7/8#78#+, &#C J &B5D52"#23#+, &#V28+# 1 7%8&GE+&·#H, &# J &B5D52"#23#+, &#V28+#
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32/#+, &#J&B5D52"#23#+, &#V28+#17%8&G+(#M, 5+R%+, &/"#&; 7"D&B5:7B8#5"#+, &#A7P#+, 5B#M7/#
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8%./&07:F#5"+2#+, &#/&8+#23#90&/5:7"#:%B%/&G#h2/+, &/"#A, 5+&#&; 7"D&B5:7B#7<2B5+52"58+8#07F#, 7; &#
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6&7: 2" 8#23#+, &#: , %/: , K#+, &F#A&/&#D&" &/2% 8#35" 7": 57B#62" 2/8K#7" 6#+, &F#A&/": /&65<BF#5" 3B%&" +57B#
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7"6#2+,&/#3&6&/7B#D2;&/"0 &"#./2D/708)#B5P&#A&B37/"6#S &65:7/(&)#+,7+#756&6#8+/56&8#

+2A7/68#/7:57B#&`%7B5+FG#Q2B6A7+&/N8#=>\(#./&856&" +57B#:70 .75D"#<&7/8#7#8+/5P5"D#/&8&0 <B7":&#+2#

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+, 5"P5"D#A2%B6#: 2" +5"%&#+2#D/2A#5"#&; 7"D&B5: 7B#: %B+%/"6#X5BBF#Q/7, 7 0 #6& 0 2"8+/7+&6#, 2A#7#
35D%/&#: 7" #%8&#/, &+2/5: #<2+, #+2#, &B. #&; 7"D&B5: 7B8#5"7"6#+2#&T2" &/7+&#+, & 0 #32/#/&#&" +&/5"D#+, A/+F#
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&; 7"D&B5: 7B8N#/&+%/ "#+2#. 2B5+5: 8G 7"6#+, &#/58#: 5; 5B#/5D, +8#7: +5; 58 0 #
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A, 5+&#&; 7"D&B5: 7B8# . %+#+, &5/#: , 5B6/&"#5" #. /5; 7+&D/&D7+&6#8: , 22B8G#H, &"#: 7 0 &#

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8+&.#5"+2#+, 8U=>?*8#.2B5+5:7B#/&7B0G#9BB#+, &F#"&&6&6#A78#7#.2B5+5:57"#+2#8%..2/+G#H, &F#A&/&#

B22P5"D#32/#7#.2B5+5:57"#A, 2#A2%B6#"2+#058+/&7#+, &0)#A, 2#A2%B6#"2+#8, 70 &#+, &0)#7"6#A, 2#

A2%B6#6&3&"6#+, &0)#7"6#J&7D7"#8, 2A&6#&;7"D&B5:7B8#+, 7#+, � &#+, &5/#:/5+&/57G##

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. 2B5+5:7B#B53"#+, &# J &7D7"#&/7G#- . &:535:7BBF)#A, 5+R%+, &/"#&; 7"D&B5:7B# 1 , /58+57"5+F#7"6#A, 5+&#
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32/ 0 &/#7<2B5+52"58+8#A&/<B&#+2)#7"6#656)#8% . . 2/+#+, &#V28+1 7%88&2B2DFK#8&D/&D7+52"7"6#5\$ 0 #

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65; 56&0#M, 5+% . /& 0 7: F#, 78#5"3B%&": &6#A, 5+&# 1, /58+57"5+F#7: /288#9 0 &/5: 7#7"6#+, /2%D, 2%+5+8#
, 58+2/F# S 2/&2; &/)#: 2"+& 0 . 2/7/F#/&8&7/: , #2"# 1, /58+57"5+F#5"9 0 &/5: 7#/&; &7B8#+, 7+A, 5+&#
8% . /& 0 7: F#58#"2+##"5` %#A, 5+&#&; 7"D&B5: 7B8#"2/#+, &#- 2%+, G# 1 2 0 . 7/5"D#A, 5+&# 1, /58+57"8#2#"2"U
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8B7 ;&/F#7"6#658:/505"7+52"# ,7 ;&#:/&7+&6#:2"65+52"8#+ ,7+#07P+#65335:%B+#32/#<B7:P8#+2#A2/P#+ ,&5/#
A7F#2%+#23#+ ,A&/#:B788GE·(+M ,5+&#& ;7"D&B5:7B8N#B2"D#2/5&"7+52"#+2A7/68#7"#5"65 ;56%7B58+5:#
05"68&+7"6#+ ,&5/#%"6&/BF5"D#8&D/&D7+52"58+#+&"6&":5&8#:7"# ,&B.#:B7/53F#A ,F#+ ,&F)#5"#.7/+5:%B7/)#
<&B5& ;&#+ ,&#:2"8&`%&":&8#23#2"&N8#2A"#B53//#65/&:+#/&8%B+#23#2"&f8#2A"#7:+52"8)#<%++ ,58#62&8#
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62&8"N+#D2#2#:, %/: ,#2/#5"N+# 1 ,/58+57"G·(&#H, C+7#3/2 0#\$2"&8#7"6#+, &#I J J ^#8, 2A8#, &#+/2%<B5"D#
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A,5+&"&88#<F#8% . . 2/+5"D#J &7D7"G# 1 2"+&0 . 2/7/F#/&8&7/: ,)#8% : , #78#, 7+#+3/2 0 #+, &#I J J ^)#. 2+&" +57BBF#



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.<#B58,5"D#3705BF#6&:56&6#2#07P&#+,&#.#7.&/#1#7"6#,58#3705BF#"70#/#8.&:+7<B&Gq#
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+, :57B#:/5858)#7#1, /58+57"#B&76&/#7887F8#f+, +/%: +%/"6#8.5/5+f#23#+, &#"7+52"i8#: , %/; , &8)
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hD%Fu")#9""#H, vF)#7"6#S7F7#I&"6B&+2"G#qJ&:2D"5_5"D#J7:"#V7"D%7D&W#M, F#M.5+7B5_&#

fXB7:Pf#7"6#fM,5+&Gf#q#1&"&/#32/#+, &#-+%6F#23#-2:57B#I2B5:FG#V78+#026535&6#S7/: , #'@)#
'*'*G#9::&88&6#S7F#>)'* '(G#,+.8WY:88.G2/DY' '* '*Y*@Y/&:2D"5_5"DU/7:&U5"UB7"D%7D&U
A, FUA&U:7.5+7B5_&U<B7:PU7"6UA,5+&YG!

q=>\(Gq#H, Z&/5:7"#I/&856&":F#I/2L&:+G#9::&88&6#9./5B#'\)#*' '(G#

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+, &U8<:G.63G!

- ,&BB&F#;G#o /7&0 &/)#@@ (#4G-G#=#b S 7F#@)#=>(ZcG#9 : :&88&6#9 ./5B#=\)# '* '(G#