



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

A3"#)664#a"#(;59>5546e5#;#G3=E455=3#;68#9>5:C;#6PS=54#74;CS:6Fb#5CS=M;35S:Gb#G43E=39;6C4b#;68#543<:C4#C=65:57467MH#4d49GM:EH#G435=6;#C=99:79467#;68#G3=E455=6;#4dC4MM46C4"#)5#;6#47S6=9>5:C=M=F:57b#5S4#848:C;745#S43#C;3443#7=#7S4#57>8H#=#9>5:C=#E#7S4#P=3M8e5#G4=G4M5"#.S4#P=3U5#P:7S#57>84675#=#E#;MM#4<4M5#S>683485#=#E#>6843F3;8>;745#:6#7S4#47S6=9>5:C=M=F#C>33:C>M>9#7S;7#5S4#84<4M=G48#;68#6>37>345#S=6=35#;68#3454;3CS#>6843F3;8>;74#;8<:5445#57>84675#:6#S43#:66=<;7:<4#4dG43:467:;#M#4;36:6F#G3=F3;95#:6#&9;6#=#3J;5S:6F7=6#A", "#;68#F3;8>;74#57>84675#;68#Y>6:=3#C=MM4;F>45#:6#7S4#B.#;68#;03=#;8#PS=#0464E:7#E3=9#S43#9467=35S:G"#0=7#7=#04#E=3F=7746#;34#7S4#;>8:46C45#PS=#S;<4#4dG43:46C48#7S4#G43E=39;6C45#5S4#F:<45#;5#;#5=M=#;37:57#;68#P:7S#7S4#J:MM:;9#N#D;3H#D:88M4#@;57436#D>5:C#@6549OM4"#

(;59>5546e5#:67436;7:=6;#M#34G>7;7:=6#;5#;#5CS=M;3#:5#0>:M7#>G=6#7S4#f>;M:7H#;68#4d7465:<4#3;6F4#=#E#S43#3454;3CS"#+43#G>OM:C;7:=65#46C=9G;55#9>5:C#=#E#7S4#D:88M4#@;57b#%5M;9:C#P=3M8b#.#=>7S4;57#)5);3)0#)6943:C;b#;68#9>5:C#;68#C=99>6:7H#:6#;#9>M7:C>M7>3;#B6:748#.7;745"#(4C:G:467#=#E#7P=#L>M03:FS7#L4M=P5S:G5#E=3#3454;3CS#:6#%68=645:;b#;68#;#.#>M7;6#g;0=#5#;#>M7>3;#M;46743#L4M=P5S:G#E=3#3454;3CS#:6#&9;6b#;68#;#L4M=P5S:G#E3=9#7S4#)943:C;6#;=>6C:M#=#E#-4;3648#.#=C:47:45#E=3#S43#C>33467#O=#U#G3=Y4C7b#>6843#C=673;C7#P:7S#7S4#B6:<435:7H#=#E#;#;M:E=36:;#\*3455b#S43#;P;38XP:66:6F#G>OM:C;7:=65#:6CM>84#9=34#7S;6#?T#G443X34<:4P48#;37:CM45#;68#CS;G7435b#;68#E=>3#O=#U5#P:7S#;#E:7S#:6#G3=C455"#.S4#:5#:6#S:FS#849;68#P:7S#=#<43#1T!#5G4;U:6F#:6<:7;7:=65#8=C>946748#;68#:5#;6#;C7:<4#G;37:C:G;67#:6#:67436;7:=6;#C=6E4346C45#;68#C=M=f>;#

A3"#(;59>5546e5#4EE=375#7#=:67436;7:=6;#h4#;68#8:<435:EH#7S4#>6:<435:7H#;68#:75#C=99>6:7H#S;<4#0446#73;65E=39;7:<4#E=3#JND"#.S4#S;5#0446#C=65:57467MH#34C=F6:h48#E=3#S43#=>757;68:6F#;CC=9GM:5S94675#:6#74;CS:6Fb#3454;3CSb#;68#M4;8435S:G"#.S4#S=M85#;#6;948#G3=E455=35S:Gb#7S4#J:MM:;9#;68#)66:4#\$:CU435#\*3=E455=3#=#E#D:88M4#@;57436#.7>8:45#Q5:6C4#?!1KRb#34C4:<48#7S4#\*M>943#)P;38#E=3#L;C>M7H#@dC4MM46C4#Q?!1KRb#P;5#54M4C748#7=#84M:<43#7S4#2;CU#L;C>M7H#-4C7>34#Q?!1\_Rb#;68#P;5#:6:7;748#:67=#7S4#\*S:#\$47;#a;GG;#.#=C:47Hb#)MGS;#;S;G743#=#E#[ :3F:6:;#Q?!1IR#7S4#6#5>054f>467MH#4M4C748#;5#:75#S:FS457#G345:8:6F#=#E#C43#Q?!1^R"#(;59>5546e5#345#M>74#C=99:79467#=#7S4#5>CC455#=#E#JND#:5#4<:8467#:6#S43#34C=38#=#E#F=<436;6C4"#.S4#543<48#;5#;S;:3#=#E#S43#A4G;379467b#;=#XA:34C7=3#=#E#7S4#)5);6#.7>8:45#%6:7;7:<4#b#A:34C7=3#=#E#D:88M4#@;57#.7>8:45b#;68#\*3=F3;9#A:34C7=3#E=3#)D@.])5);6#;68#D:88M4#@;57#.7>8:45"#.S4#S;5#543<48#=#6#64;3MH#;MM#=#E#S43#A4G;379467e5#;68#\*3=F3;9e5#C=99:77445#;68#S;5#7;U46#;#3=#M4:6#C;9G>5#M4;8435S:G#7S3=>FSb#E=3#4d;9GM4b#543<:C4#=#6#7S4#L;C>M7H#)EE;:35#;=99:7744b#7S4#\*3=<=57e5#A4;6#.4;3CS#;=99:7744b#;68#7S4#C;9G>5XP:84#(47467:=6b#\*3=9=7:=6b#;68#246>34#;=99:7744#=#3#C=X;S;:3:6F#7S4#)375#g>;3743#J=3U:6F#'3=>Gb#PS:CS#5S4#S4MG48#7=#46<:5:=6#;68#:6:7;74#:6#?!??"#JS47S43#7S3=>FS#:6:7;7:<45#:6#4dG43:467:;#M#M4;36:6F#=#3#C=;CS:6F#S43#57>84675#:6#7S4#C=6573>C7:=6#=#E#;#P405:74#=#3#;#G=8C;57b#5S4#:5#;#34C=F6:h48#M4;843#:6#74;CS:6F#;68#M4;36:6F#:66=<;7:=6"#J:7S#S43#C=M4;F>4#:6#'4=#F#Hb#5S4#:5#C=X8:34C7=3#=#64#=#E#JND#e5#9=57#:66=<;7:<4#57>8H#;03=#;8#G3=F3;95b#;EE4C7:=6;74MH#6:CU6;948#i(=CUb#D>5:Cb#&9;6"j#0=7;OMHb#\*3=E455=3#(;59>5546#P;5#7S4#54C=68#JND#E;C>M7H#=#74;CS#;7#7S4#JND#J;5S:6F7=6#;46743#;68#S;5#347>3648#7#=#=>3#A;#C;9G>5#7P:C4#9=34#7=#

1#!\* & . % 2% & 0!! \$

! \*3=E455=3#=#D>5:C#; 68#@7S6= 9>5:C=#FH#  
# J :MM:; 9#D"#; 68# ) 66:4# \$" \$ :CU435#\*3=E455=3#=#D:88M4#@; 57436# . 7>8:45##  
# A:34C7=3b# J :MM:; 9#N#D; 3H#D:88M4#@; 57436#D>5:C#@654 9 0M4#Q457"1` `KR#  
# Q ) 55:57; 67#\*3=E455=3#1` ` I#246>34#; P ;3848#A4C4 9 043#1` ` \_#\*3= 9 =748#7=#L>MM#\*3=E455=3#?! 1?R#  
#

) 3 4 5 6 5 7 8 9 : 8 5 ; < ! \* = 7 5 8 5 = 6 7 ! : 8 ! > 5 ? ? 5 : 4 ! @ ! A : 9 B !

V ; 6 > ; 3 H # ? ! ? ? ! L ; C > M 7 H # A : 3 4 C 7 = 3 b ! J : M M : ; 9 # N # D ; 3 H # J ; 5 S : 6 F 7 = 6 # A , # , 4 6 7 4 3 ] # i J ; 5 S : 6 F 7 = 6 # ; 6 8 # 7 S 4 # ) 3 7 5 j !  
? ! 1 ` X ? ! ? ? # \* 3 = F 3 ; 9 # A : 3 4 C 7 = 3 # ; 6 8 # L ; C > M 7 H ] # ) D @ . # k # \* 3 = F 3 ; 9 # : 6 # ) 5 : ; 6 # ; 6 8 # D : 8 8 M 4 # @ ; 5 7 4 3 6 # . 7 > 8 : 4 5 # #  
. G 3 : 6 F # ? ! 1 ` # L ; C > M 7 H # A : 3 4 C 7 = 3 b ! J : M M : ; 9 # N # D ; 3 H # J ; 5 S : 6 F 7 = 6 # A , # , 4 6 7 4 3 ] # i J ; 5 S : 6 F 7 = 6 # ; 6 8 # 7 S 4 # ) 3 7 5 j !  
? ! 1 ` X ? ! ? ! # [ : C 4 # \* 3 4 5 : 8 4 6 7 b # \* S : # \$ 4 7 ; # a ; G G ; b # ) M G S ; # , S ; G 7 4 3 # = E # [ : 3 F : 6 : # Q S : F S 4 5 7 # C ; 9 G > 5 # = E E : C 4 3 R #  
? ! 1 1 X ? ! 1 K # , S ; : 3 b # A 4 G ; 3 7 9 4 6 7 # = E # D > 5 : C #  
? ! ! Z X ? ! 1 ! # , S ; : 3 b # J : M M : ; 9 # N # D ; 3 H # D : 8 8 M 4 # @ ; 5 7 # . 7 > 8 : 4 5 # L ; C > M 7 H # #  
? ! ! ` X ? ! 1 ! # , = X A : 3 4 C 7 = 3 b # J : M M : ; 9 # N # D ; 3 H # ) 5 : ; 6 # . 7 > 8 : 4 5 # % 6 : 7 ; : 7 < 4 # #  
. G 3 : 6 F # ? ! ! ^ # L ; C > M 7 H # A : 3 4 C 7 = 3 b ! J : M M : ; 9 # N # D ; 3 H # J ; 5 S : 6 F 7 = 6 # A , # , 4 6 7 4 3 ] # i J ; 5 S : 6 F 7 = 6 # ; 6 8 # 7 S 4 # ) 3 7 5 j # #  
#

( < C < 6 8 ! ) 3 4 5 6 5 7 8 9 : 8 5 ; < ! . < 9 ; 5 C < ! 8 = ! 8 D < ! \* 9 = E < 7 7 5 = 6 !

? ! ? 1 X # X # X # \$ = ; 3 8 # 9 4 9 0 4 3 ] # ) % L % . # ) 9 4 3 : C ; 6 # % 6 5 7 : 7 > 7 4 # E = 3 # % 6 8 = 6 4 5 : ; 6 # . 7 > 8 : 4 5 #  
? ! 1 ? # X # X # X # @ 8 : 7 = 3 : ; M # \$ = ; 3 8 # D 4 9 0 4 3 ] # B 6 : < 4 3 5 : 7 H # = E # ( = C S 4 5 7 4 3 # \* 3 4 5 5 b # . 4 3 : 4 5 : 6 # @ 7 S 6 = 9 > 5 : C = # F H b #  
@ M M 4 6 # a = 5 U = E E b # A ; 9 ; 5 C > 5 # a ; E > 9 0 4 b # ' 4 6 4 3 ; M # @ 8 : 7 = 3 5 #  
? ! 1 K X ? ! 1 \_ # \* 3 4 5 : 8 4 6 7 b # . = C : 4 7 H # E = 3 # @ 7 S 6 = 9 > 5 : C = # F H # \* 3 4 5 : 8 4 6 7 X 4 M 4 C 7 ] # 1 # H 4 ; 3 W # \* 3 4 5 : 8 4 6 7 ] # ? # H 4 ; 3 5 b # \* ; 5 7 X  
\* 3 4 5 : 8 4 6 7 ] # 1 # H 4 ; 3 W # D 4 9 0 4 3 b # \$ = ; 3 8 # = E # 2 3 > 5 7 4 4 5 b # ) 9 4 3 : C ; 6 # L = M U M : E 4 # , 4 6 7 4 3 b # - : 0 3 ; 3 H # = E #  
, = 6 F 3 4 5 5 W # A 4 M 4 F ; 7 4 b # ) 9 4 3 : C ; 6 # , = > 6 C : M # = E # - 4 ; 3 6 4 8 # . = C : 4 7 : 4 5 #  
#

\* 9 < ; 5 = F 7 ! 2 < : C D 5 6 G ! \* = 7 5 8 5 = 6 7 !

1 1 1 ` ` ? X 1 ` ` I # [ : 5 : 7 : 6 F # - 4 C 7 > 3 4 3 b # B 6 : < 4 3 5 : 7 H # = E # 2 4 d ; 5 # ; 7 # ) > 5 7 : 6 ] # A 4 G ; 3 7 9 4 6 7 # = E # D > 5 : C b # , 4 6 7 4 3 # E = 3 # 0 4 ; 3 #  
@ ; 5 7 4 3 6 # . 7 > 8 : 4 5 # W # A : 3 4 C 7 = 3 b # B 6 : < 4 3 5 : 7 H # = E # 2 4 d ; 5 # D : 8 8 M 4 # @ ; 5 7 4 3 6 # D > 5 : C # @ 6 5 4 9 0 M 4 # !  
1 ` ` ! X 1 ` ` 1 # [ : 5 : 7 : 6 F # ) 5 5 : 5 7 ; 6 7 # \* 3 = E 4 5 5 = 3 b # & 0 4 3 M : 6 # , = M M 4 F 4 W # A : 3 4 C 7 = 3 b # & 0 4 3 M : 6 # D : 8 8 M 4 # @ ; 5 7 # @ 6 5 4 9 0 M 4 # #  
#

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#\$%'()\*+(,-./:;?@A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ \_ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿





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#%\$"&'()\*((+,-" . \*//01\*2\*)"304'+5"61478+/"



?!1T## ' >457#O=F#G=57#E=3# . 9:7S5=6:;6#L=MUP;H5#(4C=38:6F5#=6#=!),. %#-%\*@ '%R&/S,/\$%^!1-b#;#34X34M4;54#  
=E#B 0@ . , &e5#34C=38:6F5#1"# / 4 9 46]#23;8:7:=6;M#D>5:C#=E#7S4#0=37Sb#;68#?"#O6/\$L#R&/S,/\$%> '00,\$3)M#  
S77G5JIE=MUP;H5"5:"48>164P5X;68XG34551>645C=XC=M4C7:=6XP44UXI`X9>5:CXE3=9X7S4X;3;0:;6XF>ME#  
!  
?!1I# (4C=38:6F#(4<:4P]#>@ '\$%\*%'A,T'&)% = '% d W% =,001'%J/)\*'&\$% =!),. ?%RWF%A/.Ke%> ')\* '&\$%  
O&. @ ')\*&/I% =!),. ?%F/6 ')\*H '\* '&)#\$% - H3:CS=38#- / ( , +^KT`"#6#J\*@\$#6!),. #1#3K%

#  
1` `K# (4C=38:6F#(4<:4P]#N#!\$O)%#-%\*%'>#&10%=!),. %#-%\*%'=,001'%J/) \*L%R&/S%  
H'&),/\$g<&/\$,/\$%/\$O%M!&9,)@%M&/O,\*,#\$%),\$%\*%'%X\$,\*'O%N\*/')"#2S344#C;554745#P:7S#;#57>8H#F>:84#  
OH#.;MH#D=65=>3#;55:5748#OH#\*;94M;#A=36b#1` `!"#D>5:C#@8>C;7=35#0;7:=6;M#, =6E4346C4#  
QD@0 ,R"#J\*@\$#6!),.#1#3K%I\_1?#\*G"#I\_!XI\_I"##  
#  
1` `?# (4C=38:6F#(4<:4P5]#RI'&S/,07/\$L%6!),(!'%\*%.'@/\$\*)%O')%/)@,(")3CS:<45%67436;7:=6;M45#  
84#D>5:f>4#\*=G>M;:34b# '464<;b#.P:7h43M;68b#1` `!"# [A@#A ,#Z1I"#) 0A#RI'&S/K7/\$L%=!),(!'%  
M&/O,\*,#\$\$'11'"#-4#,S;67#8>#D=684b#-Ac#?^K#`!1b#1` `\_"#J\*@\$#6!),.#1#3K#IZI?#\*G"#?^IX^\_"  
#  
1` `!# i@CS=M=FH#5#&>7]j#H/.,-.%A'T,'8%#-%J\*@\$#6!),.#1#3K%Kb#\*G"#1!TX1!^"  
#  
**UJ#!\*FT?5C:85=6!\*9=[<C87!56!\*9<77!!**  
B6843#C=673;C7#P:7S#B6:<435:7H#=#,;M:E=36;#\*3455]#=#\$)##\$%='1#0,')L%2,)\*'\$,\$3%\*##=!)l,6%  
<\$O#\$\$'),/%,%\$/\$%<\$O,\$/O.'/\$%>#&10%)6#=#G46X;CC455#948:;#3:CS#0==U#=#6#7S4#B ,#\*3455#->9:6=5#  
\*M;7E=39"#  
!  
%6#\*3455"##i2;3;0#:6#7S4# '3==<45]#(4C=65:843:6F#;#23;65:7:=6;M#D=9467#:6#7S4#)3;0#)943:C;6#)375#  
@C=6=9H"j##6#M/&/SL%=!),. ?J.)\*/)K%J6#\*,#S%/\$O%H'&-##&6/\$.'#;#<=M>94#:6#S=6=3#=#3=E455=3#)"V"#  
(;CH"#D:CS;4M#L3:5SU=GEb#AP:FS7#(4H6=M85b#;68#.C=77#D;3C>5b#@85"#B6:<435:7H#=#24d;5#\*3455"#  
#  
**UI#!%6!J<;<?=L4<68V##**  
\*3=E455:=6;M#J405:74#E=3#74;CS:6Fb#3454;3CSb#;68#G>O#M:C#=>734;CS#:6#84<4M=G9467"#2S:5#G3=Y4C7#:5#;6#  
=>7F3=P7S#=#9H#P=3U#;5#;#? !? !X?1#JND#L4M#P#E=3#.2%- %b#7S4#.7>8:=#E=3#24;CS:6F#;68#-4;36:6F#  
%66=<;7:=6"#.44#;M5=]#S7G5]I157M:"P9"48>1?!?!11!I11!184<4M=GX;XP405:74XE=3XH=>3X

!:" #S%&'()\*((+,-.\*/01\*2\*)"304'+5"61478+/"9:9;"

} I1? I1? ?#i D=65==6#D>5:C]#2S4# . =>685C;G4#E#%68=645:;6#%5M; 9#:6#;6#%68:;6#&C4;6# J =3M8j# , 46743#E=3#  
(4M:F:=>5#;68# , 3=55X

!!"  
"

#%\$&'()\*((+,-" . \*//01\*2\*)"304'+5"61478+/"9:9;"

.G:3:7>;M:7Hb#;68#249G43;6C4#:6#7S4#)3;0::6#'>ME#;68#.=>7S4;57#)5::j#E=3#N#!\$0,\$3%\*@'%<\$0,/S%O.'/\$L#  
=!),./I%+,&.I1/\*,#\$)%,\$%\*@'%R-#&#YR),/\*,%N'/)./'"b#B6:<435:7H#E#\*4665HM<;6:;!<br>##<br>1!!?^11\_#i2S4#D>5:C;M#-4F;CH#=#-40;6454#Q;68#)3;OR#)943:C;65]#%99:F3;67#)375#@C=6=9:45#;68#7S4#<br>D>5:C#=#D>M7:C>M7>3;M#)943:C;bj#E=3#.H9G=5:>9#=#6#7S4#-40;6454#-4F;CH#=#'4=3F47=P6#,,=>67Hb#.=>7S#<br>,;3=M:6;#'4=3F47=P6#,,=>67H#-:03;3H"##<br>#<br>1!!?T11\_#\*43E=39;6C4#E=3#7S4#,,=M4F4#=#,S;3M457=6b#.=>7S#,,;3=M:6;#"457S47:C5#J=3U5S=Gb#P:7S#):CS;#<br>(48=>;64#;68#+;0:0#//;99:64"#+=57#\*3=E455=3#V=6;7S;6#04>E4M8b#A4G;379467#=#S:M=5=GSHb#;68#<br>D:CS;4M#&e\$3:46b#A4G;379467#=#D>5:C#J:7S#<:5:7#=#7S4#CM;55#=#D:CS;4M#&e\$3:46#1!!?Z11\_##<br>#<br>1!!?K11\_#D>5:C=M=FH#.G4;U43#.43:45b#0=37S#,,;3=M:6;#.7;74#B6:<435:7H"#iJ=946#&>7#-=>8]#2S4#'4684348#<br>-;685C;G4#=#E#5M;9:C#\*43E=39;6C4'j#J:7S#;#CM;55#<:5:7#E=3#\*3=E5"#)M:5=6#)36=M8#;68#V=6;7S;6#a3;943"##<br>!<br>1!!1Z11\_#i'M=0;M#2:GG:6F#\*=675]#2S4#D>5:C#;68#,,>M7>34#=#E#&9;6#\#\$:=8:<435:7H#;68#7S4#%68::6#&C4;6#<br>.=>685C;G4"j#J=3M8#)EE;:35#,,=>6C:M5#=#)943:C;#:#6#D;6CS45743b#04P#+;9G5S:34"#J:7S#CM;55#<:5:75#;68#<br>G345467;7:=651P=3U5S=G5I:6743<:4P5#;7#+;MM5:84#D:88M4#.CS=#M#,,=6C=38#+:FS#.CS=#M#A;379=>7S#<br>,,=M4F4b#;68#D;6CS45743#(;8:=#.7;7:=6#1!^"^^#2S4#\*>M54"#<br>#<br>1!!11\_#1K!"#J:MM::;9#N#D;3H#2;CU#L;C>M7H#-4C7>34"#iJ=946#&>7#-=>8]#2S4#'4684348#-;685C;G4#=#<br>%5M;9:C#\*43E=39;6C4j#P:7S#;#G34M>84#=#E#34M4<;67#9>5:C#OH#7S4#JND#D:88M4#@;57436#D>5:C#@6549OM4"#<br>#<br>`1?`11\_#iD>5:C#;68#7S4#&9;6:#)375#@C=6=9Hj#J=3M8#)EE;:35#,,=>6C:M5#=#)943:C;#:#6#A;MM;5b#24d;5#;7#7S4#<br>A;MM;5#)37#D>54>9"#<br>#<br>\_1K11\_#\*;64M:57b#iL:68:6F#H=>3#[=:C4]#+=57:6F#,,=6<435;7:=65#=#6#L344#@dG3455:=6b#;S;:3b#L348#-;P346C4b#<br>\* \$ a #0;7:=6;M#.4C347;3H#;68#,@#"#23:466:;M#,,=>6C:M#=#E#7S4#0;7:=6;M#H@,%Z'\*/%G/'/'/%+=6=35#. =C:47Hb#<br>)>F>57#?XKb#\$=57=6b#D;55;CS>54775"##<br>!<br>}Z11T11\_#B6:<435:7H#=#)957438;9b#A4G;379467#=#D>5:C=M=FH#i,,=M=f>:>9]#,,>33467#3454;3CS#:6#<br>%68=645:;#;68#7S4#%5M;9:C;74#J=3M8j##<br>#<br>?1?111\_#.>M7;6#g;0==5#,,>M7>3;M#,,46743b#J;5S:6F7=6b#A,#iD>5:C#;68#7S4#&9;6:#)375#@C=6=9H"j#<br>#<br>?1?111\_#L=34:F6#.43<:C4#%657:7>74b#B".#"A4G;379467#=#.7;74#)3M:6F7=6b#[ ]#%6<:748#48>C;7=3#Q7S344XS=>3#<br>M4C7>341P=3U5S=G#=#6#47S6=9>5:C=M=FH#=#E#7S4#D:88M4#@;57R"#%6<:7;7:=6#OH#A3"#V=S6#%5U;68;3"#<br>#<br>?X111\_#2P=XG;37#345:846CHb#J;U4#L=3457#B6:<435:7H"#L403>;3H#?ZX?\_]#1R#)3;0#9>5:C#P=3U5S=G#;68#<br>34S4;35;M#P:7S#J;U4#L=3457#.73:6F#&3CS4573;b#?R#\*>OM:C#-4C7>34#i(4M:F=>5#D>5:C;M#\*43E=39;6C4#;68#7S4#</p></div>
<div><p>!9"</p></div>
<div><p>#S%\$'&'()\*((+,-.\*/01\*2\*)"304'+5"61478+/"9:9;"</p></div>



J :M: ; 9#N#D ;3H#Q0=<49043#1ZR"#

#

1111Z#%673=8>C7=3H# , =9 94675b# . =C:47H#E=3#@7S6=9>5:C=M=FB#\*34X , =6E4346C4#=6#\*>O! :C#@7S6=9>5:C=M=FB#  
- :03;3H#E# , =6F3455b# J ;5S:6F7=6#A" , "#0=<49043#`b#?!1Z"#

#

}1!11Z# , ;G4#\$347=6#B6:<435:7Hb#0=<;# . C=7:;b# , ;6;8;b#h %<\$\*'&\$/\*,#\$/1%NK6"#),!6%#-%\*@ '!<\$\*'&\$/\*,#\$/1%

!<"  
"

#%\$&'()\*((+,-.\*/01\*2\*)"304'+5"61478+/"9:9;"



!>"

#%\$&'()\*((+,-.\*/01\*2\*)"304'+"



I11Z111# , S ; 3M=7745<:MM4b# [ ) L%\_, &3, \$, /%4 ')\*, T/1%#-%\*@ '%Z##9W%6<:748#; 5#6=7; 0M4#64P#; >7S=3#; 68#7=#5G4; U#=#6# 7S4#G; 64M#i D>5M: 9# J = 9 46]#\*43C4G7:=65#; 68#. 4MEX\*43C4G7:=65"j#

#

I11K111#B6:<435:7H#=#E# ) M0437; b#@89=67=6b# , ; 6; 8; j# : '"/&\*6 '\$%#=#= !), .%N"/9'&%N'&, ')#i \*43E=3 9 :6F# ) 375#; 68#7S4# J =3M85#=#E#5M; 9]# . H643FH#; 68#A:5C=664C7#:6#7S4#68:; 6#&C4; 6#23; 84# J :685"j#

#

}11?K111#2S4# ) 9 43:C; 6#%67436; 7:=6; M# . CS==M#D>5C; 7b#& 9 ; 6]#n %R\$\$! /1%4 ')\*, T/1%#-%+@#,& )#Q P:7S# G; 37:C:G; 675#E3=9 #:67436; 7:=6; M#5CS==M5#:6# . :>8:# ) 3; 0; ; b# - 40; 6=6b#2>6:5:; b#; 68#7S4#B6:748# ) 3; 0#@ 9 :3; 745" #6<:748#48>C; 7=3b#G345467; 7:=6#7:7M4]#i 2S4# ) 457S47:C5#=#E# ) 3; 0# . :6F:6F"j#

#

#11?1111#B6:<435:7H#=#E#D:CS:F; 6b# ) 66# ) 30=3b#D%]#N#!\*@'/)\*R), /\$%N\*!O, ')%2' . \*!&'N'&, ')#i - ; 6F>; F4#; 5# \*=P43b#\*43E=3 9 ; 6C4#; 5#%67467:=6]# J = 9 46e5#%5M; 9 #:6#%68=645:; "j#

#

11? !111#B6:<435:7H#=#E#D:CS:F; 6b# ) 66# ) 30=3b#D%]#+#)\$#&\*, ! 6%#-%^&/O!/\* '%N\*!O'\$\*)%, \$% =, 00l '%J/)\*% N\*!O, ')# J =3U5S=G#=#6#7S4#G3=C455#=#E#3454; 3CS#; 68#P3:7:6F# 9 H#O==U]#>#6 '\$%\*@ '%A' . , \*'O%B!&C/\$%/\$O% <)/6, . % = !), . % , \$%<\$O#\$' ) , /M#

#

\_#!\*) \* I ( !\* ( I . I 0 2 I J ! ) 2 ! \* ( & O I . . % & 0 ) - ! A I I 2 % 0 ' . ! Z ! : \* : 78 ! 1 ' ' B < : 97 ! = 6 ? B V ! H ' ' 1 1 Z H ' ' H 1 ! P 7 < ? < C 8 5 = 6 ! T B ! L < < 9 ! 9 < ; 5 < R S ! ^ 5 6 3 5 C : 8 < 7 ! 5 6 8 < 9 6 : 8 5 = 6 : ? ! ; < 6 F < " #

1 ? 1 ? 1 ? ? b # D : 8 8 M 4 # @ ; 5 7 # . 7 > 8 : 4 5 # ) 5 5 = C ; 7 : = 6 # Q D @ . . ) R # A 4 6 < 4 3 b # , & " # % 6 < : 7 4 8 # G ; 6 4 M # C S ; : 3 b # 8 : 5 C > 5 5 ; 6 7 b # ; 6 8 # G 3 4 5 4 6 7 4 3 b # = 3 F ; 6 : h 4 8 # O H # @ M : h ; 0 4 7 S # . ; H M = 3 # ; 6 8 # / => 5 5 4 E # @ M X \$ 4 3 3 : C S : ] # M ' / . @ , \$ 3 % 2 / \$ 3 ! / 3 ' % 8 , \* @ % = ! ) , . % / \$ O % = ! ) , . % 8 , \* @ % 2 / \$ 3 ! / 3 ' L % H ' O / 3 # 3 , . / 1 % < \$ \$ # T / \* , # \$ % ) , \$ % J \* @ \$ # 6 ! ) , . # 1 # 3 K % / \$ O % R & / S , . % 2 / \$ 3 ! / 3 ' % < \$ % \* & ! . \* , # \$ % # \* ; G 4 3 # G 3 4 5 4 6 7 4 8 b # i . : 6 F : 6 F # : 6 # ) 3 ; 0 : C ] # @ d G 4 3 : 4 6 C 4 b # @ 6 M : F S 7 4 6 9 4 6 7 b # @ 9 0 = 8 : 9 4 6 7 b # @ 9 G = P 4 3 9 4 6 7 j # ; 5 # ; # G ; 3 7 # = E # 7 S 4 # = 3 F ; 6 : h 4 8 # G ; 6 4 M # #

#

111111? ? b # . = C : 4 7 H # E = 3 # @ 7 S 6 = 9 > 5 : C = M = F H # Q . @ D R # 0 4 P # & 3 M 4 ; 6 5 b # - ) " # % 6 < : 7 4 8 # C S ; : 3 b # 3 => 6 8 7 ; 0 M 4 # = 3 F ; 6 : h 4 8 # O H # / > : U = # ) 5 ; 0 ; # ; 6 8 # ) 9 ; 6 4 # a ; 5 ; : ] % A ' \* @ , \$ 9 , \$ 3 % = / & , \* 6 ' % U , ) \* # & , ' ) % # - % H # " ! 1 / & % = ! ) , . " #

#

} ^ 1 ? ? 1 ? ? # % 6 7 4 3 6 ; 7 : = 6 ; M # , => 6 C : M # E = 3 # 7 S 4 # . 7 > 8 H # = E # 2 3 ; 8 : 7 : = 6 ; M # D > 5 : C # Q % , 2 D R # - : 5 0 = 6 b # \* = 3 7 > F ; M # \* \* ; G 4 3 # G 3 4 5 4 6 7 4 8 b # i 2 S 4 # A ; H # 7 S 4 # . > M 7 ; 6 # A : 4 8 # ; 6 8 # D > 5 : C ; M # \* ; 7 3 = 6 ; F 4 # : 6 # & 9 ; 6 j # G ; 3 7 # = E # 7 S 4 # \* M 4 6 ; 3 H # ( => 6 8 7 ; 0 M 4 # = 3 F ; 6 : h 4 8 # O H # [ : 3 F : 6 ; # A ; 6 : 4 M 5 = 6 b # V > M H # ? ? b # ? ? ! I ] # = ! ) , . % / \$ O % = # S , l , \* K % , \$ % \* @ ' % > # & 1 0 ) % # - % \* @ ' % R & / S , / \$ % ^ ! 1 - # R l ) # # G ; 6 4 M # C S ; : 3 b # V > M H # ? Z b # ? ! ? I " #

! ? " "

# \$ % & ' ( ) \* ( ( + , - . \* / 0 1 \* 2 \* ) " 3 0 4 ' + 5 " 6 1 4 7 8 + / " 9 : 9 ; "

111^11`#

!@"

#%\$&'()\*((+,-.\*/01\*2\*)"304'+5"61478+/"9:9;"

#  
}^1?11T#i 04F=7.;7:6F#7S4#\*435=6;M#;68#\*3=E455:=6;M]#@7S6=9>5:C=M=F:575#;68#B6C=9E=37;0M4#23>7S5bj#  
3=>687;0M4#P:7S#(404CC;#. "#D:M43b#.<;6:0=3#\*477;6b#D;3F;347#. ;3U:55.;6"#2S4#%67436;7:=6;M# , =>6C:M#E=3#  
23;8:7:=6;M#D>5:C# J =3M8# , =6E4346C4b# ) 57;6;b#a ;h;US57;6"#  
#  
}^1?111T#i J =946b#7S4#(4C:748#g>3e;6b#;68#( ;8:C;M#L49:6:59bj#G;37#E#;#3=>687;0M4#i2S4=3:h:6F# '46843#  
:6#@7S6=9>5:C=M=Hj#C=6<4648#OH#\$ ;30;3;#+ ;9G7=6b#2S4#%67436;7:=6;M# , =>6C:M#E=3#23;8:7:=6;M#D>5:C#  
J =3M8# , =6E4346C4b# ) 57;6;b#a ;h;US57;6"#  
#  
1111?11K#i )3;0#D>5:C#;68#23;656;7:=6;M# - ;0=3]#&64#+>68348# /4;35#:6#;6# )375#@C=6=9H"j# . =C:47H#E=3#  
@7S6=9>5:C=M=H#\*34X , =6E4346C4#=#i D>5:C#;68# - ;0=3"j#B6:<435:7H#E#\*:7750>3FSb#\* )"#  
!  
}^1T11I#i , >M7>3;M# . H90:=5:5#;68#D>5:C;M#D>7>;M:59]#23;65X34F:=6;M# )3;0#D>5:C#\*3=8>C7:=6b#7S4#%3;f:#

!A"  
"

#%\$"&'()\*((+,-.\*/01\*2\*)"304'+5"61478+/"9:9;"

9:"  
"

#%\$&'()\*((+,-.\*/01\*2\*)"304'+5"61478+/"9:9;"

}1!11Z#.S;6FS;:#,=6543<;7=3H#=E#D>5:Cb#E=39;M#C=6C437]#iD>5:C#;68#.=6F#E3=9#7S4#)3;O#J=3M8]#  
D:F3;7:=65#=E#24d7#;68#2>64bj#G43E=39;6C4#=6#o>8b#3:ff#;68#<=C;M5#P:7S#.C=77#D;3C>5#Q\*3=E455=3b#  
B6:<435:7H#=E# , ;M:E=36:;b# . ;67;# \$ ;30;3;R#=6#6;H#;68#o>8"#&C7=043#?1"#

# # # #

}1!11Z#.S;6FS;:#,=6543<;7=3H#=E#D>5:Cb#P=3U5S=G#=#6#i)3;O#D>5:C#\*43E=39;6C4#\*3;C7:C4bj#P:7S#.C=77#  
D;3C>5b#;68#)V#( ;Chb#\*3=E455=3b#QB6:<435:7H#=E# , ;M:E=36:;b#- =5#)6F4M45R"#&C7=043#??"##

#

}1!11Z# , ;G4#\$347=6#B6:<435:7Hb#.H864H#0=<;#.C=7:;b# , ;6;8;"#\*43E=39;6C4#=6#o>8b#3:ff#;68#<=C;M5#P:7S#

#  
K11\_11?#L=3 9 ;M#C=6C437#P:7S#E:<4#F>457#;37:575#E3= 9 #7S4# . >M7;6;74#E#& 9 ;6b#@P4M# (4C:7;M# + ;MMb# J ND"##  
#  
II !11?# ' ;M;#\*43E=3 9 ;6C4#P:7S#F>457#;37:575#E3= 9 #D=3=CC=b#0 ;53488:64# , S;;0;64#;68#) 9 :6;#\$465;;8b#  
J :MM:; 9 50>3F# [ ) b# - :03;3H#2S4;743"#  
#  
1 !II11#L>MMX46F7S#C=6C437#E# ) M# + ; P ;6: 9 #Q ) 664# ( ;5 9 >5546b# ) 664#@M:54#2S=9 ;5b#\$3:8F47# (=00:65b#  
D ;3H; 9 #@M:b#@M:h;047S# ) HH=>ORb# - ; 68 9 ;3U#2S4;743b#\$M;CU50>3F# [ ) #  
#  
} ?1?T111#L4;7>348#o>8#5=M=:57#E=3#7S4#CS=3;M#G:4C4#i 2 ;M=>b#j#;33;6F48#OH#A3"#V=S6#\*43U:65#E# . S;3V;S#

N#D;3H#D:88M4#@;57436#D>5:C#@65490M4"#

#

^11?# ,=67:6>:6F#E:4M8P=3U#C=68>C748#:6#D>5C;7#;68#:6#7S4#5=>7S4369=57#G3=<:6C4#=#AS=E;3#Q=6#7S4# /4946:#0=3843Rb# .>M7;6;74#=#E#&9;6W#I"TP44U5"##

#

0=<49043#?ZXA4C49043#1Zb#?!1!W#L403>;3H#IXD;3CS#1b#?!11W#V>64#1TXV>MH#I!b#?!11#

@7S6=F3;GS:C#E:4M8P=3U#:6#7S4# .>M7;6;74#=#E#&9;6b#)3;0:;6# '>ME"#2S4#E:357#73:G#P;5#GM;6648#;3=>68#7S4#

4<4675#E=3#0;7:=6;M#A;H#;68#7S4#C4M403;7:=6#=#E#7S4#K!"#)66:<435;3H#=#E#7S4#9=8436#6;7:=6"#2S4#54C=68#73:G#

C=:6C:848#P:7S#7S4#9=67SXM=6F#D>5C;7#L457:<;M#:6#7S4#C;G:7;M#C:7H#=#E#D>5C;7"#







.8F3<68!) 3;57<<7!PRD=ID; ;<L!F97F<3! : 3; : 6C<3!3<G9<<7!56!<8D6= 4 F75C=?=GB!=9!9< : 8<3!357C5L!56<7S!!

) 664#@M:54#2S=9 ; 5#1` `Z#Q\$3=P6#B6:<435:7Hb#\*S"AR#

.>66:#L;55#1` `^#Q%68::6;#B6:<435:7Hb#\*S"AR#

A:;6;#- ; 67h#1` `#QB6:<435:7H#=#E# ; ;M:E=36:;b# . ; 67;# \$ ; 30;3;b# - :6F>:57:C5b#\*S"AR#

; ;3=M:64#A:4554M#1` `#Q04P# / =3U#B6:<435:7Hb# ) 67S3=G=M=FHR#

2455# . M=9 :65U:#1` `T#QB6:<435:7H#=#E# - : 9 43:CUb#%34M ; 68b#D ) W#04P# / =3U#B6:<435:7H#\*S"A"R#

&M:<43# . S ;=#? ! ! 1#Q . CS==M#=#E#&3:467;M# ; 68# ) E3:C ; 6# . 7>8:45b#D ) W#%68:;6;#B6:<435:7H#\*S"ARb##

A40=3;S#V>57:C4#? ! ! ?#Q J 45M4H;6#B6:<435:7Hb#D ) W#%68:;6;#B6:<435:7Hb#\*S"A"R#

- :M:4# ' =38=6#? ! ! ?#QB6:<435:7H#=#E# ; ;M:E=36:;b# . ; 67;# \$ ; 30;3;b#\*S"ARb#

+4;7S43# . ;F;3#? ! ! ?#QB6:<435:7H#=#E# 24d;5b#D ) R##

- ;>3;# . 9 :7S#? ! ! ?#QG=57X>6843F3;8>;74#L>M03:FS7# . CS=M;3#;6# . G ;:6#? ! ! ^X!\_W# ' 4=3F47=P6#B6:<435:7Hb#D ) #

) 375#D ;6;F4 9 467R##

0 ;6CH#D ;35846#? ! ! ^#QB6:<435:7H#=#E# + ; P ;:e:b#D ) Rb##

; S ;68M43#D==34#? ! ! Z#Q2>M ; 64#B6:<435:7HR#

D4F;6#\$ ;6643# .>7S43M ; 68#? ! ! 1!#QD4 9=3:;M#B6:<435:7Hb#D ) R##

2:EE;6H# . CS=640==9#? ! ! ?#Q%68::6;#B6:<435:7H#D ) R#

L:=6;#\$ ;M4573:43#? ! ! ?#Q . & ) . # - :6F>:57:C5#D ) W#B [ ] #\*S"A"R#

+ ;33:5=6#L4:643#? ! ! 1` #Q ; ;M:E=36:;#%657:7>74#=#E# ) 375W#D ) R#

\$3 ;68=6#D>M:65#? ! ! !#Q;CC4G748b#84E43348#X#B6:<435:7H#=#E# 0=37S# ; ;3=M:6;# ; S ;G4M# + :M#D ) I\*S"AR#

#

**11#!( &OI . . % & 0 ) - ! ) , 2% ] % 2% I . V! A : 6F7C95L8!9<;5<R!<; : ?F : 85=6!=E!C=?<: GF<7!E=9!8<6F9<! : 63!**

**L9= 4 =85=6!<358=97D5L7!C=67F?856G!!=8D<9!7<9;5C<!!LFT?5C!DF 4 : 6585<7!:C85;58B!**

. G3:6F#? ! ? ! I#

# %6<:748#F>45748:7=3b# J / 1 ' % F# ! & \$ / 1#% = ! ) . , % / \$ O%A ' 1,3,#\$] JF=A# [ =M#` b#=#? ]#i . ; C348# ( 4C:7;7:=6#

; 68# ( :7>;M#;6#A:F:7;M# J =3M85" j#

. G3:6F#? ! ? ! I#D ; 6>5C3:G7#34<:4P#E=3#M@ ' % F# ! & \$ / 1#% = ! ) / 6 . , % / \$ O% = ! ) 1, 6%N\*!O, ' )e%;M5=#E=3#N\*!O, /%< ) / 6, 9 / %

L ; M#? ! ? ? ##\*3=9=7:=6#34<:4P#b#2>E75#B6:<435:7H#

. G3:6F1 .>9 9 43#? ! ? ? ?#

# D ; 6>5C3:G7#34<:4P#E=3#<\$O#\$' ) , /% ; 68% = ! ) . , % / \$ O#H#1, \*, . )#

% \*3=Y4C7#34<:4P#b# . 9 :7S5=6: ; 6#L=MUP ; H5# ( 4C=38:6F5#

# ' 3 ; 67#G3=G=5;M#34<:4P#b#%53;4M:# . C:46C4#L=>68;7:=6#

# A:55437;7:=6#4<;M>;7:=6b#B6:<435:7H#=#E# + ; :E;#

# \*3=9=7:=6#4<;M>;7:=6b#2>E75#B6:<435:7H#

. G3:6F#? ! ? ? #\* ; 64M:57#E=3# ' 4=3F47=P6#B6:<435:7H#P=3U5S=G#E=3#E ; C>M7H# 9 4 9 043b#V455:C ; # ( =8 ; "#6<:748# ; 5#

G ; 37#=#E# ; #G ; 64M#=#E#5G4C ; ; M:575#7=#34 ; 8# ; 68#=#E#43#C=9 9 4675#=#6#S43#C=9 G#M4748#83 ; E7#E=3#Z ' K#\$O%\*@ ' %

N@ ' K%IL%>#6 ' \$%H' & - # & 6 / \$ . ' ) % / \$ O%\*@ ' %A ' ) @ / ' , \$3%#-%O&\*@#O# \ K% , \$%\*@ ' % : , 3 , \* / 1#R3 ' W#D ; H#Zb#? ! ? ? #

. G3:6F#? ! ? ? #@d7436 ; M# : 6<:748# 9 4 9 043#=#E#7S4#54 ; 3CS#C=9 9 :7744#E=3# ; #546:=-3#47S6=9>5:C=M=F:57# ; 7#7S4#

B6:<435:7H#=#E#7S4# . =30=664b#\* ; 3:5#L3 ; 6C4#L:357#34<:4P#=#E#C ; 68:8 ; 745b#<:37>;M#%6743<:4P5# ; 68#

4<;M>;7:=6#;6#\* ; 3:5#D ; H#11b#? ! ? ? #

. G3:6F1 .>9 9 43#? ! ? ! # , =65>M7 ; 67#E=3#@dS:0:7:=6#=#E#@ ; 3M# ) 3 ; 0# ) 9 43:C ; 6# , >M7>34#XXX#

**S77G5JIIPPP"7>3;7S? ! ? ! =3F19>5:C" #This Exhibition of Early Arab American Culture was curated by Dr. Akram Khater, Khayrallah Center for Lebanese Diaspora Studies at North Carolina State University. This virtual exhibit includes materials from and interviews with me about my research on Arab American music and community.%**

`1? ! 1? ! # \$ \$ , # ( 4G=3743# . =GS ; # . 9 :7SX ' ; M43#G3=8>C48# ; 6#4dC4M467#G3=F3 ; 9#=#6#L4 9 ; M4# ( 4C:7435#=#E#7S4#

g>3e ; 6#7=#P S:CS##C=673:0>748# 9 H#3454 ; 3CS#=#6#E4 9 ; M4#34C:7435# : 6#%68=645: ; "#

**S77G5JIIPPP"00C"=">UIG3=F3 ; 9 9 451PIC7!dZI#**

[S77G5\]I15:745"F==FM4"C=91<:4P15495=>6857>8:4515=>68:6F0=:38! I1849=6573;7:=6X:6X5=I=#](#)  
1?1?!# J :M:; 9#N#D;3H# J ;5S:6F7=6# , 46743#?!7S# ) 66:<435;3H#X#S77G5]I1H=>7>"04I - S14^3: / [ fK#  
2S4# J ND# J ;5S:6F7=6# , 46743#:6743<:4P48#A , # , 46743E:357#7P=#54945743#G3=E455=35"#  
?!?!# \*3=9=7:=6#34<:4Pb#B6:<435:7H#=#0=37S# , ;3=M:6;b# , S;G4M#+:MM"#  
`11`# %6743<:4P48#E=3# ( ;8:=#- ;Ob#iA=M#H#\*;37=6e5# ) 943:C; j#[S77G5\]I13:8:=M:O"=3F14G:5=84513;8:=M:OX](#)  
[G3454675X8=M#HXG;37=65X;943:C:"#](#)  
?!1`# D;6>5C3:G7#34<:4P#J/1'F#!&\$/1%#=#!),. %/\$0%A '1,3,#\$%J\*@\$#6!),. #1#3K?%<\$\*'&\$/\*,#\$/1%F#!&\$/1%  
#-%=,001'%J/)%N\*!O,')#  
?!1`# \*3=9=7:=6#34<:4P5b# . P;37S9=34b# , =M4F4#=#E# , S;3M457=6b#D:CS:F;6#.7;74#B6:<435:7H"#  
?!1`# D;6>5C3:G7#34<:4P#R6 '& , /\$%=!),. %J/1'F#!&\$/1%#=#!),. %/\$0%A '1,3,#\$#  
?!1`# , S;:3b# . =C:47H#E=3#@7S6=9>5:C=M=FH# \$ =;38#=#A:34C7=35#0=9:6;7:6F# , =99:7744"#  
?!1\_# , S;:3b#D433:; 9#Q0==UR#\*3:h4# , =99:7744b# . =C:47H#E=3#@7S6=9>5:C=M=FH"





#

, S;:3b#D:88M4#@;57# . 7>8:45#L;C>M7Hb#?! !ZX1!"#Q%6<:748#V=S6#@:54M4#7=#C=XCS;:3#D@L) , #8>3:6F#7S4#E:6;M#  
H4;3R"# ( 45G=65:0:M:7:45#:6CM>84#; 8 9 :6:5743:6F#qI !XITb!! !#;66>;M#O>8F47#E3= 9 #7S4# , 3:7CSE:4M8#@68=P 9 467#  
;68#G3=8>C:6F#9 ;6H#=#7S4#4<4675#;55=C;:748#P:7S#7S:5#E>68W#;8<:5:6F#1 !X? !#D:88M4#@;57# . 7>8:45#9 ;Y=35W#  
345G=68:6F#7=#;MM#C;MM5#E3= 9 # ' M=0;M# . 7>8:45#:6CM>8:6F#;6#=>75:84#34<:4P#;68#F3;8>;7:=-6#E=3#%67436;7:=-6;M#  
( 4M;7:=-651 ' M=0;M# . 7>8:45# . 7>84675W#:6:7:;7:6F#;68#GM;66:6F#7S4#E:357# , 3:7CSE:4M8# , =6E4346C4#:6#D:88M4#@;57#  
. 7>8:45b#S4M8# . G3:6F#?! ! ` #Q;68#S4M8#E=3#7S4#54C=68#7: 9 4# . G3:6F#?! ! 1R#64F=7:;7:6F#C=6<=M>748#M:645#=#E#  
C=9 9>6;7:=-6#O47P4#5#7S4#A:34C#=#E#7S4# ( 4<45# , 46743#E=3#%67436;7:=-6;M# . 7>8:45b#7S4#A4;6#=#E# , =MM4F4#  
=#E#) 375#;6# . C:46C45#=#O;M# . 7>8:45#68#%68:<:8>;M#L;C>M7Hb#;68#G34G;3:6F#;#847;:M48#;66>;M#34G=37"##  
# # #



. 43<:C4#;5#G3=F3; 9 9 43#;68#G34546743#7=#7S4#P:843#C=MM4F4#C=9 9>6:7Hb#=#6F"#) 9 0:7:=->5#;68#  
467S>5;:57:C#=#3F;6:h43#=#E#M4C7>345b#C=6C4375b#;68#=#7S43#4<4675#P:7S#;#FM=0;M#;68#C=9 9>6:7H#E=C>5b#=#G46#7=#  
7S4#G>OM:C#;68#E4;7>3:6F#;6#;33;H#=#E#F>45#7SCS=M;35#;68#;37:575#7=#7S4# , =MM4F4#=#E# J :M#; 9 #N#D ;3H"#@<4675#  
=#3F;6:h48#E=3#E=>3#Q;M 9 =57R#C=654C>7:<4#H4;35#=#E#C4M403;7:=-61C=9 9 4 9 =3;7:=-6]#?! ! #X#&64#+>68348# / 4;35#  
=#E# J =9 46#;7# J ND#W#?! ! #X#L:E7H# / 4;35#=#E#) E3:C;6#) 9 43:C;65#6# ( 45:846C4#;7# J ND#W#?! ! ?1X#2S4#) 5);6#  
, 467466:;M#?! ! ?# \ #2S4#I ! !7S#) 66:<435;3H#=#E#7S4#\$3;EE437=6#%68:;6# . CS=#M"#  
#

\*;57#543<:C4#=#6]# , =MM4F4X J :84# J 3:7:6F# , =9 9 :7744#W#L;C>M7H#) EE;:35# , =9 9 :7744b#) 8<:5=3#7=#7S4#A4;6b#) 375#  
;68# . C:46C45# , =9 9 :7744#=#6#A4F3445#W# , S;:3b#D>5:C#A4G;37 9 467#\*435=664M# , =9 9 :7744#W# , S;:3# . 4;3CS#  
, =9 9 :7744#E=3#) 55:57;67#\*3=E455=3#@7S6=9>5:C=M=F:57W# . 4;3CS# , =9 9 :7744#=#E#) 55:57;67#\*3=E455=3b#  
@7S6=9>5:C=M=F#W# , S;:3b# . 4;3CS# , =9 9 :7744#E=3#) 55:57;67#\*3=E455=3b#A:34C7=3#=#E#\$;685#W# , =9 9 :7744#7=#  
4<;M>;74#D ;3U# , =657;67:64b#A4;6#=#E# . 7>8467#) EE;:35#W# , S;:3b# . 4;3CS# , =9 9 :7744#E=3#D>5:C#2S4=3:57W#  
D4 9 043b# . 4;3CS# , =9 9 :7744#E=3#) 9 43:C;6:57#D>5:C=M=F:57W# , S;:3b# . 4;3CS# , =9 9 :7744#E=3#) 9 43:C;6:57#  
D>5:C=M=F:57# J ND# , =6C437# , =9 9 :7744#E34f>467# , S;:3#;68#D4 9 043#@P4MM# , =6C437# , =9 9 :7744#W#  
D4 9 043b#) 37:57#6# ( 45:846C4# , =9 9 :7744"##67436;7:=-6;M# . 7>8:45# , =9 9 :7744#Q7P=#7S344XH4;3#743 9 5RW#L;C>M7H#  
( 454;3CS# , =9 9 :7744#Q7S344XH4;3#743 9 #O4F:66:6F#?! ! 1R#W# , S;:3#;68#D4 9 043#D:88M4#@;57# . 7>8:45#L;C>M7H#  
QD@L) , Rb#6=P#) 5);6#;68#D:88M4#@;57436# . 7>8:45#Q) D@ . RW# . 7>8467#) EE;:35# , =9 9 :7744#W# J =9 46#5#  
. 7>8:45# , >33:C>M>9 # , =9 9 :7744#W# ( 4<45# , 46743#E=3#%67436;7:=-6;M# . 7>8:45b#) 8 9 :55:=-65# , =9 9 :7744b#6<=M<48#  
H4;3MH#:6#4<;M>;7:=-65#;68#34<:4P5#=#E#E;C>M7H#;68#57;EE#C=MM4;F>45#7S3=>FS#<;3:=->5#D43:7# , =9 9 :77445#  
#

**1H)#!) JA%0%. 2 ( ) 2% ] I!. I ( ]% , I!2&!2 + I!\* (&OI . .%&0!**  
I1?1XG345467# \$=;38#=#E#A:34C7=35#E=3#) %L% . ]#) 9 43:C;6#%657:7>74#E=3#%68=645:;6# . 7>8:45"#  
?1?1XG345467# \$=;38#=#E#A:34C7=35#E=3#D;:64#V;hh# , ; 9 G#

#  
.=C5<8B!E=9! I8D6= 4 F75C=?=GB#  
\*345:8467# . =C:47H#E=3#@7S6=9>5:C=M=F#H#Q?b!! !#r1X#9 4 9 0435#P:7S - 1 (:W2 (7) - ) - 1 (6) - 1 (#) - 1 (#00 . (#) - 1 (7) 0 04612

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