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- ^-73522?!eN!RN?!T!9:#U5)+V?!QN!1N!G=<KKHN!"#\$!'&.27\$&:\$!-.!:2'\$&+!*-:'-\$:-&-8':!*+5+7*!-&!! Y*,:#-+#\$)5Y'*+*f!5++)'Z7+'-&52!Z'5*\$*!5&6!:-7&+\$)+)5&*.\$)\$&:\$!)\$5:+'-&*N!+;2</.03%F-:<306%-8% !,C."-1"2<O=C4%QO?!=AIC=]]N!
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- $1 \#-Y0-?!>N! / N?!T!9:\#U5)+V?!QN!1N!G=<<IHN!" \#\$!)\$25+'-\&!Z\$+U\$\$\&!8'\&6.72\&\$**!5\&6!Y-*++)5785+':!3)-U+\#F! / !! \\ *+76, !-.!.')*+!)\$*Y-\&6\$)*!+-!+)5785C'\&67:'\&3!'\&:'6\$\&+*N!F-:<306\%) 23106\%92061''\%5-:3,26/374\%WH?! ;];C;D]N!$

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- 9:#U5)+V?!QN!1N?!4'2*:#\$)?!QN?!T!45,#-U?!EN!G=<<DHN!97Z*+5&:\$!5Z7*\$!5&6!Y*,:#-*-:'52!'8Y5')8\$&+*!! 58-&3!:2'\$&+*!U'+#!*:#'V-Y#)\$&'5N!+;2</.03%F-:<306%-8%Y<1''-=,C.''/0!<C?!GG?!]K<C]KBN!
- "-+#?! S N?!9:#U5)+V?!QN!1N?!T!d7)05?!9N!G=<<DHN!9+)5+\$3'\$*!.-)!7&6\$)*+5&6'&3!5&6!5**\$**'&3!*7':'6\$!)'*0!'&!! Y*,:#-+#\$)5Y,N!+3306,N-8N1"2N+;2</.03N!,C."-1"2<0=CN+,,-./01/-34\ndthetaHJ4\ndthetaKJC=BN!

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- "-+#?! S N?! T !9 : #U5)+V?!QN! 1 N!G=<<]HN!@Z\$*'+, ?!6'*-)6\$)\$6!\$5+'&3?!5&6!+#\$!Z5)'5+)': !*7)3\$), !Y-Y725+'-&F!! a 8 Y2': 5+'-&*!.-)!Y*, :#-+#\$)5Y, N!+3306, %-8%1"2%+; 2</.03%!, C. "-1"2<0=C%+,, -./01/-34%M?!]CK;N! !
- `\$'*+#5 8 \$2?! dN!EN?! T !9 : #U5)+V?!QN! 1 N!G=<<]HN!Q5 : '52!Z'5*!'&!6'53&-*'*F!E)5 :+' :52!' 8 Y2' :5+'-&*!.-)!! Y*, :#-+#\$)5Y'*+*N!+3306, %-8%1''2%+ ; 2</.03% !, C. "-1''2<0=C%+,, -./01/-34%M?!KKCKAN!</pre>
- `\$'*+#58\$2?!dN!EN?!T!9:#U5)+V?!QN!1N!G=<<]HN!Q\$*\$5):#!-&!)5:\$!5&6!+#\$!6'*Y)-Y-)+'-&5+\$!6'53&-*'*!-.!! 8\$&+52!6'*-)6\$)*N!*5''/*%(/7;0%A-10%&U2;=60<4%LH?!KCDN!

.-)!: -7&*\$2-)*N!F-: <306%-8%+''/.1/-3,%03'%Y8823'2<%5-:3,26/37?!LI?!=;C;AN!

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- 9:#U5)+V?!QN!1N!G=<<KHN!9Y\$:'52!:-278&F!E*,:#-+#\$)5Y\$7+':!6'53&-*'*!5&6!+)\$5+8\$&+!-.!4'*+)'-&':!! E\$)*-&52'+,!^'*-)6\$)N!+3306,%-8%I''2%+;2</.03%!,C."-1''2<0=C%+,,-./01/-3<u>?</u>!I?!K=CKAN!
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S: a&+,)\$?!9N?!T!9:#U5)+V?!QN1N!GKIIJHN!!"#\$)5Y'*+*f!6'\$)\$&+'52!: -7&+\$)+)5&*.\$)\$&:\$!)\$5:+'-&*!+-U5)6! :2'\$&+*!U'+#!85[-)!6\$Y)\$**'-&!-)!Z-)6\$)2'&\$!Y\$)*-&52'+,!6'*-)6\$)N!! <i>F-:<306</i> %-8%56/3/.06%!,C."-6-7C?! OI?!I=;CI;KN!
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$\underline{C1?\#^*)^{*}; +, 10'B'0; +K+!^{\#}\%\&\&'\#()^{*}+L\#''7\&?\#:\&+)(-+/\#(\%''\%(1\%+!^{\%}\&\%(0)0'\#(\&+/\#3:*\%0\%-+$
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9:#U5)+V?!QN!1N!T!9'&3\$)?!@N!G=<<B?!c-(\$8Z\$)HN!X''2%O<1%-8%,:/./'2%O,,2,,;231^%+%=</;2<%8-<%.-:3,26-<,N! E)\$*\$&+5+'-&!:-&67:+\$6!5+!+#\$!=<<B!/22!@#'-!1-7&*\$2-)*!1-&.\$)\$&:\$?!1-278Z7*?!@#'-N!

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- 9:#U5)+V?!QN1N?!T!Q'&3\$&Z5:#?!QN!G=<<B?!@:+-Z\$)HN!`,/37%*:''"/,I%=</3./=62,%]-%23"O3.2%.-:3,26-<%% 2':.Ol/-3%O3'%,:=2<>/,/-3N!E)\$*\$&+5+'-&!:-&67:+\$6!5+!+#\$!=<<B!/**-:'5+'-&!.-)!1-7&*\$2-)!L67:5+'-&! 5&6!97Y\$)('*'-&!c5+'-&52!1-&.\$)\$&:\$?!E'++*Z7)3#?!E\$&&*,2(5&'5N!
- ^ \$* 8 5)5'*?! dN?!T !9 : #U5)+V?!QN1N!G=<<B?!@ :+-Z\$)HN!X<0/3/37%.6/3/.%12. "3-6-7C% `=7<0'/37%C-:<%%
 >/'2-10=/37%2b:/=; 231%8<-; %% [9 (%1-% '/7/106%, 1-<072%1-%23 "03.2%, :=2<>/,/-3%03 '%1<0/3/37N!
 E)\$*\$&+5+'-&!:-&67:+\$6!5+!+#\$!=<<B! / **-:'5+'-&!.-)!1-7&*\$2-)!L67:5+'-&!5&6!97Y\$)('*'-&!c5+'-&52!
 1-&.\$)\$&:\$?!E'++*Z7)3#?!E\$&&*,2(5&'5N!
 !</pre>
- 9:#U5)+V?!QN!1N!G=<<B?!@:+-Z\$)HN!X"2%O<1%-8%,:/./'2%O,,2,,;231^%+%=</;2<%8-<%;23106%"2061"%=<-82,,/-306,N! E)\$*\$&+5+'-&!:-&67:+\$6!5+!c-)+#\$5*+!@#'-!4\$52+#!9\$)(':\$*?!a&:N?!>\$\$:#U--6?!@#'-N!

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- $\begin{array}{l}9:\#U5)+V?!Q\mathbb{N}!\,1\mathbb{N}!\,T\,!Q-3\$)*?!e\mathbb{N}!Q\mathbb{N}!G=<<B?!e72\,,\\\mathbb{H}\mathbb{N}+.0'2\,;/0\mathbb{K}<-:3'10S62^{M}X''2\mathbb{K}/3\,,\\\mathbb{H}03'\mathbb{K}-:1,\mathbb{H}-8\mathbb{H}0.0'2\,;/0\mathbb{N}!\\Q-7\&6+5Z2\$!Y)\$*\$\&+\$6!.-)!\,1\,\#'!9'3\,8\,5!a-+5!\,/\,2Y\#5!\%\,Y*'2-\&!\,1\,\#5Y+\$)!5+!\,''\,\#\$!\%\&'(\$)*'+,!-.!\,/\,0)-\&?!\,(0)-\&?!@\#'-\mathbb{N}!\end{array}$
- !
- 9:#U5)+V?!QN!1N!G=<<B?!S5,HN!*:<3-:1%=<2>231/-3%8-<%;23106%"2061"%=<-82,,/-306,N!E)\$*\$&+5+'-&!:-&67:+\$6! 5+!c-)+#\$5*+!@#'-!4\$52+#!9\$)(':\$*?!a&:N?!>\$\$:#U--6?!@#'-N!
- !
- 9:#U5)+V?!QN!1N!T!1#-Y0-?!>N!G=<<B?!`\$Z)75), HN! ! <0. 1/.06%, 1<0127/2, %8-<%: 3'2<, 103'/37%03'%T-<_/37% 1''<-:7''%.6/231%<2, /, 103.2N!E)\$*\$&+5+'-&!:-&67:+\$6!.-)!1#'!9'385!a-+5!0! / 2Y#5!%Y*'2-&!1#5Y+\$)!5+! ''#\$!%&'(\$)*'+, !-.!/0)-&?!/0)-&?!@#'-N!
- !
- 9:#U5)+V?!QN!1N!G=<<B?!e5&75), HN![/-623.2%03'%"-;/./'2%</,_%0,,2,,;231N!E)\$*\$&+5+'-&!:-&67:+\$6!5+! c-)+#\$5*+!@#'-!4\$52+#!9\$)(':\$*?!a&:N?!>\$\$:#U--6?!@#'-N!
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- $9:\#U5)+V?!QN!1N!G=<<A?!^{$:$8Z$)HN!5-=/37\%T/1''N.6/231\%,:/./'2N!E)$*$&+5+'-&!:-&67:+$6!5+!c-)+#$5*+!@#'-! 4$52+#!9$)(':$*?!a&:N?!>$$:#U--6?!@#'-N!$
- 9:#U5)+V?!QN!1N!T!1#-Y0-?!>N!G=<<A?!c-(\$8Z\$)HN!!0>/37%1"2%<-0'%1-T0<'%. "0372^%`3'2<,103'/37%03'% T-<_/37%1"<-:7"%.6/231%<2,/,103.2N!E)\$*\$&+5+'-&!:-&67:+\$6!5+!+#\$!=<<A!/22!@#'-!1-7&*\$2-)*! 1-&.\$)\$&:\$?!1-278Z7*?!@#'-N!
- !
- 9:#U5)+V?!QN!1N!G=<<A?!c-(\$8Z\$)HN!(:/./'2?"-;/./'2%0,,2,,;23!%,1<0127/2,^%+%=</;2<%8-<%;23106%"2061"% =<-82,,/-306,%a%!O<1%AAN!E)\$*\$&+5+'-&!:-&67:+\$6!5+!c-)+#\$5*+!@#'-!4\$52+#!9\$)(':\$*?!a&:N?! >\$\$:#U--6?!@#'-N!

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9:#U5)+V?!QN!1N!G=<<A?!@:+-Z\$)HN!

 $= <-82, , /-306, \\ a \le ! 0 < ! \le ! = &67: + $6!5 + ! c -) + \# $5* + ! @ \#' - ! 4 $52 + \# ! 9 $)(': $*?! a & : \\ ! > $$: #U - 6?! @ \#' - N!$

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- $9: \#U5) + V?! QN! 1 N! G = << A?! / Y) '2HN! (1 < 0 / 27/2, %8 < \%T <_/37 \% 1'' <- :7'' \%. 6/23 / \% < 2, /, 103. 2N! E) $* $ & +5+' & !: & 67: +$6!5+!$ $^{22 (1) 21 (100 / 100 - 0) } * $ & +100 / 100 /$
- !
- 9:#U5)+V?!QN1N!G=<<A?!e5&75),HN!/,C."-,-./06%1<201;231%-8%,."/R-="<23/0^%*0,/.%.-:3,26/37%,_/66,%8-<% "26=/37%=<-82,,/-306,N!E)\$*\$&+5+'-&!:-&67:+\$6!5+!c-)+#\$5*+!@#'-!4\$52+#!9\$)(':\$*?!a&:N?!>\$\$:#U--6?! @#'-N!
- 9:#U5)+V?!QN1N!G=<<;?!e7&\$HN!(1072, %-8%1"2<0=2:1/. %. "0372%0...<'/37%1-%T2,12<3%=, C. "-1"2<0=C%1"2-<CN! E)\$*\$&+5+'-&!:-&67:+\$6!.-)!+#\$!1-7&*\$2'&3!E*,:#-2-3,!E)-3)58!5+!/**78Y+'-&!%&'(\$)*'+,?! >5&30-0?!"#5'25&6N!
- 9:#U5)+V?!QN1N!T!W7+#)'\$?!4N!G=<<=?!S5):#HN!A3,/7"1%O3'%=,C."-,/,^%X"2%.-,1,%O3'%S2328/1,%-8%/3.<20,2'% ,268POTO<232,,%/3%,."/R-="<23/ON!E-*+\$)!*\$**'-&!:-&67:+\$6!5+!+#\$!=<<=!/8\$)':5&!1-7&*\$2'&3! /**-:'5+'-&!c5+'-&52!1-&.\$)\$&:\$N!

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- 9:#U5)+V?!QN1N!T!\\$&62'&3?!4N!G=<<KN!@:+-Z\$)HN!&3"O3./37%1"2%":;O3%,=/</l%:,/37%S:''"/,1%="/6-,-="C^% A3.-<=-<Ol/37%'"O<;O%O<1%/31-%.-:3,26/37%!\-)O*#-Y!:-&67:+\$6!5+!+#\$!=<<K!/22!@#'-!1-7&*\$2-)*! 1-&.\$)\$&:\$?!1-278Z7*?!@#'-N!
- !
 - 9:#U5)+V?!QN1N!G=<<K?!S5):#HN!5-:312<1<03,82<23.2%<20.1/-3,%1-T0<'%,=2./8/.%.6/231%=-=:601/-3,N!! _)0*#-Y!:-&67:+\$6!5+!+#\$!=<<K!/8\$)':5&!1-7&*\$2'&3!/**-:'5+'-&!/&&752!1-&.\$)\$&:\$?!95&! /&+-&'-?!''\$X5*N!
 - 9:#U5)+V?!QN1N!G=<<<?!/Y)'2HN!X"2%.-;;-3%80.1-<,%-8%."0372%/3%;23106%"2061"%.-:3,26/37N!\-)0*#-Y! Y)\$*\$&+\$6!.-)!1#'!9'385!a-+5!E#'!@8':)-&!1#'!:#5Y+\$)?!E-:5+\$22-?!a65#-N!

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- 9:#U5)+V?!QN1N!G=<<<?!S5):#HN!5-:312<1<03,82<23.2%/3%.-:3,26/37^%+3%2;=/</.06%,1:'CN!E-*+\$)!*\$**'-&! Y)\$*\$&+\$6!5+!+#\$!=<<<!/8\$)':5&!1-7&*\$2'&3!/**-:'5+'-&!\-)26!1-&.\$)\$&:\$?!\5*#'&3+-&?!^1N! !
- 9:#U5)+V?!QN1N!GKIII?!@:+-Z\$)HN!*:'''/, IM="/6-, -="CMO3'M; 23106%"2061"'M/; =6/.01/-3, M8-<M.-:3, 26-<M M 2':.01/!+MQQ.24000.2418583.92BaT500050225-1146572.16793141T[(>5)0.2(&N')0.2(38,0.2())Y+)(

\$!"#"! " # \$ " %

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