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ABCDECFGBHC	J'#+&'(K,2#",/>(L,"/*&'(M*%,20%%(602/0"	A#	IGHC5OOE(	IPO5CCG(	INHH5HHH(	IH(

6&/:&",20(;<(=+0"'>(602/0"(8#"(?#@02602/0"(8#"(3&0R;T 11177 5L Tj 1666 0 Td /a 175 IH(

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J0#7"&$:>(&23(!'&22,275(Q0$&"/@02/(#8

6BCDRCHEBHN	K,%%,#2(=&"/:X(T*%,27(J4YM=(9,/:(A1;1(1%%0/%(/#(M*,'3(;>%/0@,-($22#V&/,#2(,2(;.=K(=3*-&/,#2	A#	IFGF5FDO(	IGHD5GPP(	IPGP5HDE(	IRFG5NCF(
6BCDRCHEBHR	K,%%,#2(=&"/:X(T*%,27(J4YM=(9,/:(A1;1(1%%0/%(/#(M*,'3(;>%/0@,-($22#V&/,#2(,2(;.=K(=3*-&/,#2	A#	INCH5CEO(	ICPN5OGN(	IFHR5HCD(	IGFG5HHE(
6BCDRORRBHD	$23*%/">(6'*%/0"%(&23(4#-&/,#2(#8(17",-*'/*"0X(=%/&+',%:,27(&(.:0#"0/,-&'(M&%0(8#"(=-#2#@,-(Q0V0'#$@02/(!"&-/,-0	A#	IR5FHH(	ID5NHH(	IO5HHH(	IO5HHH(
ABCDECERBHC	133"0%%,27(=2V,"#2@02/&'(6:&''0270%(&23(!"#$#%,27(;*%/&,2&+'0(;#'*/,#2%(&/(/:0(4&Z0(=",0(4&23B4&Z0($2/0"8&-0	A#	IGGH5DDR(	ICF5GCC(	IGNF5RGF(	ICHG5PFC(
ABCDECOPBHC	=27&7,27(;/*302/%(&23(.0&-:0"%(.:"#*7:(J4YM=X((1*0179 TD/(!)10Jd /b R Td2/0 0 Td (N Tj 1,31%%0&($;< BT 1 0 6(1*0179 TD/(!)10Jd /3*0#R5OTHE(					

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!%>-:#'#7>5(Q0$&"/@02/(#8

6BCDRDPPBHG	**;/*3>(#8(=&"'>(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q**	**A#**	**IGFN5NPC(**	**ICND5DGC(**	**IRHF5EDD(**

6BCDRDPPBHGBSHC	**;/*3>(#8(=&"'>(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q**	**A#**	**ICDC5NPE(**	**INE5NCC(**	**ICFO5PHO(**

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M*%,20%%(123($22#V&/,#25(6#''070(#8

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Q0&2BM*%,20%%(6#''070

ABCDENDNBHC	T,&/(6:">%'0"(?#"Z8#"-0(Q0V0'#$@02/	A#	IGDO5RRC(	INO5CPF(	IGEF5ENE(	IDFG5EDG(

Q0&2BM*%,20%%(6#''070U	H<EH	IDFG5EDG(

$28#"@&/,#2(Y$0"&/,#2%(&23(.0-:2#'#7>(K&2&70@02/

ABCDENDNBHC	T,&/(6:">%'0"(?#"Z8#"-0(Q0V0'#$@02/	A#	IGDO5RRC(	INO5CPF(	IGEF5ENE(	ICCG5HDN(

$28#"@&/,#2(Y$0"&/,#2%(&23(.0-:2#'#7	H<GH	ICCG5HDN(

K&2&70@02/5(Q0$&"/@02/(#8

ABCDECPCBHC	?#"Z8#"-0(=27&70@02/(;*"V0>	A#	IO5FGF(	IOFN(	IP5RHH(	IP5RHH(

K&2&70@02/5(Q0$&"/@02/(#8U	C<HH	IP5RHH(
M*%,20%%(123($22#V&/,#25(6#''070(#8U	D<HH	IGOF5DNE(

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6*"",-*'*@(&23($2%/"*-/,#25(Q0$&"/@02/(#8

6BCDRCHEBHN	K,%%,#2(=&"/:X(T*%,27(J4YM=(9,/:(A1;1(1%%0/%(/#(M*,'3(;>%/0@,-($22#V&/,#2(,2(;.=K(=3*-&/,#2	A#	IFGF5FDO(	IGHD5GPP(	IPGP5HDE(	ICOE5OHR(

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					=&"'>(6:,'3:##35(!:>%,-&'5(&23(;$0-,&		G<RH		IDRC5NEG(

=3*-&/,#2&'(T#*23&/,#2%(&23(40&30"%:,$

ABCDEDHCBHC	J"0&/(;/&"/(`,7:0"(=3*-&/,#2(bJ;`=U				A#	ICGO5OOP(	ICC5CCC(	ICRH5HHH(	
;BCDRFNPBHCB;C	6#''&+#"&/,V0(^0%0&"-:X(^0%0&"-:(S2,/,&/,#2X(T&-/#"%(1880-/,27(W230""0$"0%02/03(K,2#",/>(;/*302/(;*--0%%(&23(!&/:9&>%(/#(=27,200",27(6&"00"%(&/(K&[#",/>(&23(K,2#",/>(S2%/,/*/,#2%				A#	ICF5COO(	IO5HCG(	IDN5DHC(	IE5POF(
					=3*-&/,#2&'(T#*23&/,#2%(&23(40&30"%		H<GG		IE5POF(
					=3*-&/,#2(B(_*3,/:(`0"+(6#''070(#8U		P<CG		IC5ECN5HCC(

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13@,2,%/"&/,#25(6#''070(#8(=27,200",27									
6BCDFHRHBHD	AW^.W^=;(!:&%0(SSX(=\$&2%,#2(&23(=V&'*&/,#2				A#	IEEH5FEC(	IDCF5FOC(	IPOE5GRD(	IENH5RCN(
6BCDFHRHBHG	AW^.W^=;(!:&%0(SSX(=\$&2%,#2(&23(=V&'*&/,#2				A#	IDCD5DOD(	IFD5OGG(	IDER5CCR(	IDHF5GGF(

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6BCDFHFEBHD	A0\/(J020"&/,#2(6&B!(60@02/%(8#"(."0&/,27(L0"/0+"&'BM#3>(T"&-/*"0%	A#	EH5RRF(	GN5PDR(	CHR5NOC(	GC5FNN(
6BCDFHFEBHG	A0\/(J020"&/,#2(6&B!(60@02/%(8#"(."0&/,27(L0"/0+"&'BM#3>(T"&-/*"0%	A#	ED5NFE(	GR5OEC(	CHO5GGO(	ER5OGE(
6BCDFGDFBHD	6:##%0(Y:,#(T,"%/	A#	RDE5EDO(	H(	RDE5EDO(	RDE5EDO(
6BCDFEGFBHD	^07,#2&''>(1',7203(!",#",/,0%(,2(Q0',V0",27(;Z,''%(b^1!$Q;(G<HU	A#	GFC5ENP(	H(	GFC5ENP(	DGO5ERN(
ABCDEDDDBHC	$2-#"$#"&/,27(1-/,V0(1$0\(6#""0-/,#2(&'#27%,30(J*,303(J"#9/:(.0-:2,]*0X(1V#,3,27(^,%Z>(Y%/0#/#@,0%(&23(/:0(4#%%(#8(6#""0-/,#2(,2(=&"'>(Y2%0/(;-#',#%,%	A#	GG5NGG(	CF5RNP(	NP5POD(	NP5POD(
ABCDENECBHC	Q>2&@,-(6#@$"0%%,#2(.0%/,27	A#	G5PDR(	C5DER(	R5DHH(	R5DHH(
ABCDEOFRBHC	Q&2&(-#2/"&-/X((L0:,-'0(K0-:&/"#2,-%(60"/,8,-&/0(!"#7"&@	A#	DPF5DDF(	DD5EEN(	GCP5HHH(	GC5PHH(

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;BCDFHFEBHCB;C	A0\/(J020"&/,#2(6&B!(60@02/%(8#"(."0&/,27(L0"/0+"&'BM#3>(T"&-/*"0%	A#	IDC5EDG(	ICH5ERG(	IGD5NEF(	

M,#027,200",275(Q0$&"/@02/(#8U CD<OF IC5GDH5OND(

6:0@,-&'(&23(=2V,"#2@02/&'(=27,200",275(Q0$&"/@02/(#8

6BCDRCHEBHN	K,%%,#2(=&"/:X(T*%,27(J4YM=(9,/:(A1;1(1%%0/%(/#(M*,'3(;>%/0@,-(S22#V&/,#2(,2(;.=K(=3*-&/,#2	A#	IFGF5FDO(	IGHD5GPP(	IPGP5HDE(	ICOE5OHR(

6BCDRCHEBHR	K,%%,#2(=&"/:X(T*%,27(J4YM=(9,/:(A1;1(1%%0/%(/#(M*,'3(;>%/0@,-(S22#V&/,#2(,2(;.=K(=3*-&/,#2	A#	INCH5CEO(	ICPN5OGN(	IFHR5HCD(	ICDC5HHD(

ABCDROCEBHDB?CD	.:0(W2,V0"%,/>(#8(.#'03#(^#-Z0/(T*0'(T*23BBT"00(^&3,-&'(;023,27(Q0V,-0	A#	IH(	IH(	IH(	IH(

ABCDFFGGBHC	='0-/"#-:0@,-&'(S2/0"&-/,#2(#8(A&2#B60",*@(Y\,30(6#@$#%,/0%(9,/:(`>3"#\>'(^&3,-&'%	A#	IDHH5FFO(	IPP5GGD(	IGHH5HHH(	IGHH5HHH(

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A8CDEHER8HC	A,/"#702(02",- : 03(&,"(@#3*'0(30%,72(&23(8&+",-&/,#2	A#	I DO5ERC(	I CN5DGC(	I ND5POD(	I ND5POD(

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6,V,'(=27,200",275(Q0$&"/@02/(#8

;BCDRGROBHCB?C	JY14$a6#''&+#"&/,V0X(=27,200",27(M,#8,'@(Q>2&@,-%(8#"(6>&2#/#\,2%(,2(M,#'#7,-&'(?&/0"(."0&/@02/BB$A.=^A	A#	IDR5DRD(	IF5RFF(	IGC5OCO(	IGC5OCO(

6,V,'(=27,200",275(Q0$&"/@02/(#8U E<FH IGEH5CFG(

='0-/",-&'(=27,200",27(&23(6#@$*/0"(;-,02-05(Q0$&"/@02/(#8

6BCDRDPPBHG	;/*3>(#8(=&"'>(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q	A#	IGFN5NPC(	ICND5DGC(	IRHF5EDD(	IR5HFE(

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='0-/",-&'(=27,200",27(&23(6#@$*/0"(;-,02-05(Q0$&"/@02/(#8

ABCDFNFGBHC	T*23&@02/&'(&23(1$$',03((?MJ%(Q0V,-0(K#30',27(9,/:(13303(^0',&+,',/>(S2V0%/,7&/,#2(8#"(A0\/(J020"&/,#2(A&V&'(1$$',-&/,#2%	A#	INO5GDD(	IDG5PDH(	IED5DND(	IED5DND(
ABCDFNFPBHC	6^SSX(SSSX(J020"&/,V0(K#30'%(8#"(^#+*%/(^0&'B.,@0(12&'>%,%(#8(6#@$'0\(Q>2&@,-(A0/9#"Z%	A#	ICCF5EEG(	IRE5OHG(	ICEN5REF(	ICEN5REF(
ABCDFPGHBHC	1.QX(6#''&+#"&/,V0(^0%0&"-:X(;$&/,#B/0@$#"&'(3&/&(&2&'>%,%(9,/:(3>2&@,-(20/9#"Z(@#30'%	A#	IDR5HDC(	ICD5GOR(	IGE5NHF(	IGE5NHF(
ABCDFPGHBHCBSHC	1.QX(6#''&+#"&/,V0(^0%0&"-:X(;$&/,#B/0@$#"&'(3&/&(&2&'>%,%(9,/:(3>2&@,-(20/9#"Z(@#30'%	A#	ICG5POF(	IF5PDG(	IDH5PHP(	IDH5PHP(
ABCDECCOBHC	J&ABM&%03(!#90"(M*%(6#2V0"/0"(9,/:(1*/#2#@#*%(6#2/"#'(8#"(Q00$(;$&-0(;@&''(;$&-0-"&8/(!#90"(;*+%>%/0@%	A#	IDF5ERF(	ICG5DNN(	INH5HHH(	INH5HHH(
ABCDEGGPBHC	."&2%&-/,V0(6&@$*%	A#	ICFE5CRR(	IOD5END(	IDNP5OPE(	IEN5PFP(

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K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDGFHNBCD	L!4BCDBHRC(K*'/,%/&70(.*"+#@&-:,20">(13V&2-03(6#@$*/&/,#2&'(.##'(Q0V0'#$@02/(?CNC	A#	IDNF5ECH(	INP5GND(	IDPF5HRD(	IDPF5HRD(
6BCDGFHNBCG	L!4BCDBHRC(K*'/,%/&70(.*"+#@&-:,20">(13V&2-03(6#@$*/&/,#2&'(.##'(Q0V0'#$@02/(?CNC	A#	IOF5GNN(	ICE5DFP(	ICHG5FCG(	ICHG5FCG(
6BCDNCFDBHRB;D	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	IG5NPR(	IPHP(	IN5NHN(	IN5NHN(
6BCDNCFDBHRB;G	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	ICF5OFG(	IN5GOR(	IDC5DNO(	IDC5DNO(
6BCDNCFDBHF	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	ICP5CEP(	IN5POF(	IDN5CFR(	IDN5CFR(
6BCDNCFDBHFBSHC	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	ICP5CEP(	IN5POF(	IDN5CFR(	IDN5CFR(

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6BCDNCFDBHFB$HD	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	ICP5CEP(	IN5POF(	IDN5CFR(	IDN5CFR(
6BCDNCFDBHFB$HG	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	IN5EPN(	IC5DNE(	IF5HNC(	IF5HNC(
6BCDNCFDBHFB$HN	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	ICP5CEP(	IN5POF(	IDN5CFR(	IDN5CFR(
6BCDNCFDBHFB$HR	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	IDO5EFO(	IE5NOH(	IGF5DNO(	IGF5DNO(
6BCDNCFDBHFB$HF	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	ICP5GDF(	IR5HDR(	IDN5GRC(	IDN5GRC(
6BCDNCFDBHFB;C	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	IR5GCH(	IC5GOH(	IF5FPH(	IF5FPH(

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6BCDNCFDBHFB?E	K,-"#%/"*-/*"&'(12&'>%,%(&23(;/"*-/*"0(!"#$0"/>(^0'&/,#2%:,$%(,2(13V&2-03(K0/&'',-(K&/0",&'%	A#	INR5HPN(	ICC5EDR(	IRF5OCP(	IRF5OCP(

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K0-:&2,-&'5(523*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDNCFGBHFB;G	**=\/02303(Q*"&+,',/>(#8(K&/0",&'%(,2(10"#%$&-0(!"#$*'%,#2(&23(!#90"(;>%/0@%**	**A#**	**IN5GOF(**	**IC5CNH(**	**IR5RDF(**	**IR5RDF(**
6BCDNCFGBHFB;N	**=\/02303(Q*"&+,',/>(#8(K&/0",&'%(,2(10"#%$&-0(!"#$*'%,#2(&23(!#90"(;>%/0@%**	**A#**	**ICE5RNN(**	**IN5RFC(**	**IDD5CHR(**	**IDD5CHR(**
6BCDNCFGBHFB;R	**=\/02303(Q*"&+,',/>(#8(K&/0",&'%(,2(10"#%$&-0(!"#$*'%,#2(&23(!#90"(;>%/0@%**	**A#**	**IDR5OCH(**	**IF5ECH(**	**IGD5RDH(**	**IGD5RDH(**
6BCDNCFGBHFB;F	**=\/02303(Q*"&+,',/>(#8(K&/0",&'%(,2(10"#%$&-0(!"#$*'%,#2(&23(!#90"(;>%/0@%**	**A#**	**ICE5DRC(**	**IN5NOR(**	**IDC5EGF(**	**IDC5EGF(**
6BCDNCFGBHFB?E	**=\/02303(Q*"&+,',/>(#8(K&/0",&'%(,2(10"#%$&-0(!"#$*'%,#2(&23(!#90"(;>%/0@%**	**A#**	**INH5DRD(**	**ICH5NFR(**	**IRH5ECE(**	**IRH5ECE(**
6BCDNCFNBHRB;D	**12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%**	**A#**	**ICD5GPC(**	**IG5DDD(**	**ICR5FCG(**	**ICR5FCG(**

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6BCDNCFNBHF	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	ICG5FPG(	IG5RFH(	ICE5DRG(	ICE5DRG(
6BCDNCFNBHFB;C	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	ICG5FPG(	IG5RFH(	ICE5DRG(	ICE5DRG(
6BCDNCFNBHFB;D	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	ICG5FPG(	IG5RFH(	ICE5DRG(	ICE5DRG(
6BCDNCFNBHFB;G	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	IG5NDG(	IOPH(	IN5GCG(	IN5GCG(
6BCDNCFNBHFB;N	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	ICG5FPG(	IG5RFH(	ICE5DRG(	ICE5DRG(
6BCDNCFNBHFB;R	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	IF5ONF(	IC5EOH(	IO5FDF(	IO5FDF(
6BCDNCFNBHFB;F	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	ICH5GNO(	ID5FPC(	ICG5HGP(	ICG5HGP(

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K0-:&2,-&'5($23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDNCFNBHFB?E	12&'>%,%(8#"(T*/*"0(1,"-"&8/(!"#$*'%,#2(;>%/0@%	A#	IDN5CNF(	IF5DEO(	IGH5NDN(	IGH5NDN(
6BCDNDHOBHFB;C	10"#0'&%/,-(12&'>%,%(8#"(M#*23&">(4&>0"($270%/,27($2'0/BT&2	A#	IP5RPO(	ID5NPR(	ICD5HPG(	ICD5HPG(
6BCDNDHOBHFB;D	10"#0'&%/,-(12&'>%,%(8#"(M#*23&">(4&>0"($270%/,27($2'0/BT&2	A#	IR5NRF(	IC5NCP(	IF5OER(	IF5OER(
6BCDNDHOBHE	10"#0'&%/,-(12&'>%,%(8#"(M#*23&">(4&>0"($270%/,27($2'0/BT&2	A#	ICN5NFN(	IG5EFC(	ICO5DDR(	ICO5DDR(
6BCDNDHOBHEB;C	10"#0'&%/,-(12&'>%,%(8#"(M#*23&">(4&>0"($270%/,27($2'0/BT&2	A#	ICN5NFN(	IG5EFC(	ICO5DDR(	ICO5DDR(
6BCDNDHOBHEB;D	10"#0'&%/,-(12&'>%,%(8#"(M#*23&">(4&>0"($270%/,27($2'0/BT&2	A#	ICE5FGP(	IN5ROF(	IDD5DDR(	IDD5DDR(
6BCDNDHOBHEB;G	10"#0'&%/,-(12&'>%,%(8#"(M#*23&">(4&>0"($270%/,27($2'0/BT&2	A#	IN5NCH(	IC5CNF(	IR5RRF(	IR5RRF(

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K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDNDHOBHEB;N	10"#0'&%/,-(12&'>%,%(8#"(M#*23&">(4&>0"(S270%/,27(S2'0/BT&2	A#	ICE5FGP(	IN5ROF(	IDD5DDR(	IDD5DDR(

6BCDNDHOBHEB;R

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K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDNDCFBHFB;C	12&'>%,%(&23(.0%/,27(#8(13V&2-03(K&/0",&'%(&23(;/"*-/*"0%(bOR.<HOU	A#	ICF5HEH(	IN5CEO(	IDH5DNO(	IDH5DNO(
6BCDNDCFBHFB;D	12&'>%,%(&23(.0%/,27(#8(13V&2-03(K&/0",&'%(&23(;/"*-/*"0%(bOR.<HOU	A#	ICG5CPR(	IG5NGC(	ICF5FDF(	ICF5FDF(
6BCDNDCFBHFB;G	12&'>%,%(&23(.0%/,27(#8(13V&2-03(K&/0",&'%(&23(;/"*-/*"0%(bOR.<HOU	A#	IG5NNE(	IOPF(	IN5GNG(	IN5GNG(
6BCDNDCFBHFB;N	12&'>%,%(&23(.0%/,27(#8(13V&2-03(K&/0",&'%(&23(;/"*-/*"0%(bOR.<HOU	A#	ICG5EOP(	IG5ROR(	ICE5GEN(	ICE5GEN(
6BCDNDCFBHFB;R	12&'>%,%(&23(.0%/,27(#8(13V&2-03(K&/0",&'%(&23(;/"*-/*"0%(bOR.<HOU	A#	ICH5OFG(	ID5ODN(	ICG5FOE(	ICG5FOE(
6BCDNDCFBHFB;F	12&'>%,%(&23(.0%/,27(#8(13V&2-03(K&/0",&'%(&23(;/"*-/*"0%(bOR.<HOU	A#	ICD5FRG(	IG5DPH(	ICR5PNG(	ICR5PNG(
6BCDNDCFBHFB?E	12&'>%,%(&23(.0%/,27(#8(13V&2-03(K&/0",&'%(&23(;/"*-/*"0%(bOR.<HOU		IDP5RDN(		IGE5DHH(	IGE5DHH(

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K0-:&2,-&'5(523*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDNDCOBHRB;D	**13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:**	**A#**	**IR5PGG(**	**IC5RND(**	**IE5NER(**	**IE5NER(**
6BCDNDCOBHRB;G	**13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:**	**A#**	**IO5FDF(**	**ID5DNG(**	**ICH5OFP(**	**ICH5OFP(**
6BCDNDCOBHF	**13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:**	**A#**	**ICN5EEE(**	**IG5OND(**	**ICO5FCP(**	**ICO5FCP(**
6BCDNDCOBHFB;C	**13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:**	**A#**	**ICN5EEE(**	**IG5OND(**	**ICO5FCP(**	**ICO5FCP(**
6BCDNDCOBHFB;D	**13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:**	**A#**	**IDG5CCH(**	**IF5HHP(**	**IDP5CCP(**	**IDP5CCP(**
6BCDNDCOBHFB;G	**13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:**	**A#**	**IG5FPN(**	**IPFC(**	**IN5FRR(**	**IN5FRR(**
6BCDNDCOBHFB;N	**13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:**	**A#**	**IDG5CCH(**	**IF5HHP(**	**IDP5CCP(**	**IDP5CCP(**

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K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDNDCOBHFB;R	13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:	A#	IGE5NPO(	IP5ENP(	INE5DNE(	INE5DNE(
6BCDNDCOBHFB;F	13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:	A#	IDG5NPR(	IF5CHP(	IDP5FHN(	IDP5FHN(
6BCDNDCOBHFB?E	13V&2-03(10"#%$&-0(;0&'%(^0%0&"-:	A#	IRE5CFG(	ICN5OFG(	IED5HDF(	IED5HDF(
6BCDRDFPBHF	6#@$*/&/,#2&'(S2V0%/,7&/,#2(#8(.*"+,20(10"#3>2&@,-%(&23(`0&/( ."&2%80"BJ'022`.(6TQ(12&'>%,%(b?Y()CNU	A#	IGE5OEO(	IE5RER(	INR5NRG(	INR5NRG(
6BCDRDFPBHE	6#@$*/&/,#2&'(S2V0%/,7&/,#2(#8(.*"+,20(10"#3>2&@,-%(&23(`0&/( ."&2%80"BJ'022`.(6TQ(12&'>%,%(b?Y()CNU	A#	IDO5EOC(	IR5ERF(	IGN5RGE(	IGN5RGE(
6BCDROGHBHGB;D	Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%	A#	IC5PCD(	INPE(	ID5NHP(	ID5NHP(
6BCDROGHBHGB;G	Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%	A#	IE5EEP(	ID5HDG(	IP5OHD(	IP5OHD(

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K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDROGHBHN	**Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%**	**A#**	**ICH5EHP(**	**ID5EON(**	**ICG5NPG(**	**ICG5NPG(**
6BCDROGHBHNB;C	**Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%**	**A#**	**ICH5EHP(**	**ID5EON(**	**ICG5NPG(**	**ICG5NPG(**
6BCDROGHBHNB;D	**Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%**	**A#**	**ICH5EHP(**	**ID5EON(**	**ICG5NPG(**	**ICG5NPG(**
6BCDROGHBHNB;G	**Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%**	**A#**	**ID5FEE(**	**IFPF(**	**IG5GEG(**	**IG5GEG(**
6BCDROGHBHNB;N	**Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%**	**A#**	**ICH5EHP(**	**ID5EON(**	**ICG5NPG(**	**ICG5NPG(**
6BCDROGHBHNB;R	**Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%**	**A#**	**ICF5HFG(**	**IN5CEE(**	**IDH5DNH(**	**IDH5DNH(**

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K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDROGHBHNB;F	Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%	A#	ICH5EPC(	ID5OHF(	ICG5RPE(	ICG5RPE(
6BCDROGHBHNB?E	Q0V0'#$@02/(#8(6#@$*/03(.#@#7"&$:>(&23(Q,7,/&'(^&3,#7"&$:>(8#"(10"#%$&-0(K&/0",&'%(&23(T&-,',/,0%(Y$0"&/,#2%	A#	IDR5CEP(	IF5RNE(	IGC5EDF(	IGC5EDF(
6BCDROPCBHDB;D	`,7:(.0@$0"&/*"0(K&/0",&'%(&23(6#&/,27%(8#"(=\/"0@0(=2V,"#2@02/%(B(YeG	A#	ID5CDC(	IRRC(	ID5FED(	ID5FED(
6BCDROPCBHDB;G	`,7:(.0@$0"&/*"0(K&/0",&'%(&23(6#&/,27%(8#"(=\/"0@0(=2V,"#2@02/%(B(YeG	A#	IO5PHD(	ID5GCN(	ICC5DCF(	ICC5DCF(

K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDROPCBHGB;D `,7:(ICR5GNF(

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K0-:&2,-&'5(S23*%/",&'5(&23(K&2*8&-/*",27(=27,200",275(Q0$&"/@02/(#8

6BCDECHOBHD	;-&'&+'0($"#3*-/,#2(#8(+#"#2(2,/",30(2&2#B%:00/%(bMAA;U(*%,27(-#@$"0%%,+'0(8'#9(0\8#',&/,#2	A#	IDD5OHO(	ICC5DPH(	IGN5HPO(	IGN5HPO(
6BCDERPFBHD	13V&2-03(6#@$*/&/,#2&'(;,@*'&/,#2(#8(K*'/,%/&70(.*"+#@&-:,20">	A#	ICHC5CCC(	IDH5DDD(	ICDC5GGG(	ICDC5GGG(
QBCDGFHNBCDB;C	L!4BCDBHRC(K*'/,%/&70(.*"+#@&-:,20">(13V&2-03(6#@$*/&/,#2&'(.##'(Q0V0'#$@02/(?CNCfFDO	A#	IbPP5OHFU	IbCP5PFCU	IbCCP5EFEU	IbCCP5EFEU
QBCDERPFBHC	13V&2-03(6#@$*/&/,#2&'(;,@*'&/,#2(#8(K*'/,%/&70(.*"+#@&-:,20">	A#	IPP5OHF(	ICP5PFC(	ICCP5EFE(	ICCP5EFE(
ABCDGCNPBHC	K&/0",&'%(6#2%#"/,*@	e0%	IbEFCU	IH(	IbEFCU	IbEFCU
ABCDROCEBHCB?E	.:0(W2,V0"%,/>(#8(.#'03#(^#-Z0/(T*0'(T*23	A#	IH(	IH(	IH(	IH(
ABCDECHOBHC	;-&'&+'0($"#3*-/,#2(#8(+#"#2(2,/",30(2&2#B%:00/%(bMAA;U(*%,27(-#@$"0%%,+'0(8'#9(0\8#',&/,#2	A#	ID5OPF(	IC5NGG(	IN5GDP(	IN5GDP(

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J"&3*&/0(;/*3,0%

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J"&3*&/0(;/*3,0%5(6#''070(#8

6BCDRRDEBHN	1(!:&%0(G(;/*3>(/#(=V&'*&/0(/:0(=88,-&->(&23(;&80/>(#8(='&7#',\(,2(6#@+,2&/,#2(9,/:(=%/"&3,#'aA#"0/:,23"#20(1-0/&/0(8#"(/:0(K&2&70@02/(#8(`0&V>(K02%/"*&'(M'003,27(1%%#-,&/03(9,/:(W/0",20(T,+"#,3%(,2(!"0@02#$&*%&'(?#@02	A#	IP5EGH(	ID5PCP(	ICD5FNP(	IF5GDR(
6BCDRFECBHG	1(!:&%0(G(;/*3>(/#(=V&'*&/0(/:0(;&80/>(&23(=88,-&->(#8(='&7#',\(,2(6#@+,2&/,#2(9,/:(=%/"&3,#'aA#"0/:,23"#20(1-0/&/0(,2(;*+[0-/%(9,/:(K#30"&/0(/#(;0V0"0(=23#@0/",#%,%B1%%#-,&/03(!&,2 !"#/#-#'(A#<(KCNBEHD	A#	IN5CCH(	IC5DGG(	IR5GNG(	IC5HFP(
		J"&3*&/0(;/*3,0%5(6#''070(#8U		H<EH		IE5GPG(
		J"&3*&/0(;/*3,0%U		H<EH		IE5GPG(

`0&'/:(h(`*@&2(;0"V,-0%5(6#''070(#8

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`0&'/:(;-,02-0%5(6#''070(#8

ABCDEREGBHC	A#V0'(&%%0%%@02/(#8(d*&3",-0$%(K#/#"(W2,/(M0:&V,#"(&8/0"(&2/0",#"(-"*-,&/0(',7&@02/("0-#2%/"*-/,#2	A#	ID5RHH(	IH(	ID5RHH(	ID5RHH(
	`0&'/:(;-,02-0%5(6#''070(#8U			C<HH		ID5RHH(

;-:##'(#8(=\0"-,%0(^0:&+(;-,02-0%

`0&'/:(h(` *@&2(;0"V,-0%5(6#''070(#8

2#/

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;-:##'(#8(=\0"-,%0(^0:&+(;-,02-0%							
ABCDFOCEBHC	**W%0(#8(A#"3,-(`&@%/",27(=\0"-,%0(/#($@$"#V0(`&@%/",27%(T*2-/,#2**	**A#**	**ICH5HHH(**	**IH(**	**ICH5HHH(**	**ICH5HHH(**
ABCDEGNCBHC	**!*%:N!"0V02/,#2(6#@@*2,/>(;/,$023(&/(W.**	**A#**	**ID5RHH(**	**IH(**	**ID5RHH(**	
ABCDENGFBHC	**^0'&/,#2%:,$(M0/9002(/:0(4*@+#$0'V,-B`,$(6#@$'0\(K*%-'0(1-/,V&/,#2(&23(4#90"(4,@+(M,#@0-:&2,-%(Q*",27(T*2-/,#2&'(.&%Z%(M08#"0(&23(18/0"(T&/,7*0**	**A#**	**INER(**	**IH(**	**INER(**	**INER(**
ABCDENGEBHC	**.:0(=880-/(#8(."*2Z(!#%,/,#2,27(#2(d*&3",-0$%(&23(J'*/0&'(1-/,V&/,#2(Q*",27(^*22,27**	**A#**	**INER(**	**IH(**	**INER(**	**INER(**
		;-:##'(#8(=\0"-,%0(^0:&+(;-,02-0%U		**G<HH**		**ICH5PRH(**
;-:##'(#8($2/0"V02/,#2(h(?0''20%%							
ABCDEHOFBHC	**=3*-&/,27(&(6#@@*2,/>(?,/:,2(&(6#@@*2,/>X(K02/&'(`0&'/:(T,"%/(1,3(&23(J"002(i#20(."&,2,27(&/(/:0(W2,V0"%,/>(#8(.#'03#(&23(M0>#23**	**A#**	**ICCR5EGN(**	**IP5DRP(**	**ICDN5PPG(**	**ICD5NPP(**

;-:##'(#8(!#$*'&/,#2(`0&'/:

ABCDECEPBHC	K03,-&,3(=]*,/>(;,@*'&/,#2(!"#[0-/(K=Q.1!!(!"#V,30"%(1%(1'',0%(S2(=]*,/>(123(6&"0(b!1=6U	A#	IC5CDF5EPP(	ICHE5GHH(	IC5DGN5HPP(	IGHO5RDR(

ABCDECPRBHC

;-:##'(#8(;#-,&'(_*%/,-0

6BCDNPCPBHF INE5RHH(

`0&'/:(h(` *@&2(;0"V,-0‰(6#''070(#8

`*@&2(^0%#*"-0%

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`*@&2(^0%#*"-0%U	H<CH	ICD5NPP(		
`*@&2(^0%#*"-0%U	H<CH	ICD5NPP(		

`*@&2(^0%#*"-0%(h(6&@$*%(;&80/>

2#/

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L!(8#"(`^(h(6&@$*%(;&80/>

ABCDEOOCBHC	6:&23"&%0Z:&"(6#''0-/,#2(!"#[0-/	A#	IRH5HHH(	IH(	IRH5HHH(	IRH5HHH(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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1`=6

;BHCHGGFBDRB;C	**1`=6(!#,2/(#8(;0"V,-0(K&,2/02&2-0(&23(=2:&2-0@02/**	**A#**	**IDDG5DDD(**	**IH(**	**IDDG5DDD(**	**IDDG5DDD(**

1`=6U **IC5CRH5DDD(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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120%/:0%,#'#7>5(Q0$&"/@02/(#8

ABCDECEPBHC	**K03,-&,3(=]*,/>(;,@*'&/,#2(!"#[0-/(K=Q.1!!(!"#V,30"%(1%(1'',0%(S2(=]*,/>(123(6&"0(b!1=6U**	**A#**	**IC5CDF5EPP(**	**ICHE5GHH(**	**IC5DGN5HPP(**	**IGHO5RDR(**

120%/:0%,#'#7>5(Q0$&"/@02/(#8U **C<NO** **IGNF5END(**

6&2-0"(M,#'#7>5(Q0$&"/@02/(#8

6BCDROHHBHD	**!#/02/,&'(^#'0(#8(/:0(A#V0'(127,#$#,0/,2B',Z0(!"#/0,2(^ST4a127$/'O(,2(`0$&/#-0''*'&"(6&"-,2#@&**	**A#**	**IRH5HHH(**	**IDF5ERH(**	**IEF5ERH(**	**IEF5ERH(**
6BCDFCFFBHD	**^#'0(#8(2,/",-(#\,30(,2("07*'&/,27(/:0(0\/"&-0''*'&"(@&/",\(,2(+"0&%/**	**A#**	**IDE5DEG(**	**ID5EDE(**	**IGH5HHH(**	**IGH5HHH(**
6BCDFCOHBHD	**^#'0(#8(6k6^NB41;!BC(&\,%(,2(@#3*'&/,27(/:0(&-/,V,/>(#8(1"7#2&*/0DB.A^6F(,2(+"0&%/(-&2-0"(-0''%**	**A#**	**IDE5DEG(**	**ID5EDE(**	**IGH5HHH(**	**IGH5HHH(**

ABCDFFDHBHCB1/a 175 Tf (2#/) Tj 7Za/-] TJ 9)+ $5175 T4 03*-030 Td (^#'0(#8(2,/",-=6K(%/,8802%(,28#"*/0DB.A^6F(,2(+"&-/,V,/>(#8() ,Td ,(=]*,(-&2-0"13 Td (U) Tj 9 Tf (2#/) T

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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6&2-0"(M,#'#7>5(Q0$&"/@02/(#8

A8CDFPNO8HC

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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T&@,'>(K03,-,205(Q0$&"/@02/(#8

ABCDFEHCBHC	6:##%0(Y:,#(T,"%/X(!6K`	e0%	IDCH5HHH(	IH(	IDCH5HHH(	IRD5RHH(

T&@,'>(K03,-,205(Q0$&"/@02/(#8U H<RO IEP5PCG(

K03(K,-"#+,#'#7>(h($@@*2#'#7>5(Q0$&"/@02/(#8

6BCDHDPOBCH	6:##%0(Y:,#(T,"%/(;-:#'&"%:,$(!"#7"&@(B(M,#,28#"@&/,-%(!"#7"&@	A#	IFG5RNP(	IH(	IFG5RNP(	IFG5RNP(
6BCDNPFPBHN	$2/"&V,/&'(&%%0%%@02/(#8(M<(+*"73#"80",(,@@*20(-'0&"&2-0(,2(%Z,2		IDFH5CJ2		IGEF5OHO(	IGEF5OHO(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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K03(K,-"#+,#'#7>(h($@@*2#'#7>5(Q0$&"/@02/(#8

ABCDFPREBHC	**=880-/(#8(.(-0''B$'&/0'0/(&77"07&/0%(#2($'&/0'0/(&23(.(-0''(&-/,V,/>(,2('*27(-&2-0"($&/,02/%**	**IDN5GDN(**	**IDN5GDN(**	**IDN5GDN(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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K03,-,205(Q0$&"/@02/(#8

6BCDDEONBHE	1(!"#%$0-/,V05(K*'/,-02/0"5(;,27'0BM',235(^&23#@,g035(6#2/"#''03(.",&'(6#@$&",27(/:0(K#\>m(Q"*7B6#&/03(M&''##2(V%<(;/&23&"3(M&''##2(127,#$'&%/>(8#"(."0&/@02/(#8(T0@#"#$#$',/0&'(1"/0",0%	A#	IGPN(	ICHF(	IRHH(	IRHH(
6BCDGDNFBHR	.:0(^#'0(#8(=23#/:0',2BS(,2(!&/,02/%(9,/:(`0&"/(T&,'*"0(&23(!*'@#2&">(L02#*%(`>$0"/02%,#2	A#	IH(	IH(	IH(	IH(
6BCDGDPFBHG	!*'@#2&">(1"/0",&'(`>$0"/02%,#2(d*&',/>(=2:&2-0@02/(^0%0&"-:($2,/,&/,V0(=\/02%,#2(!"#7"&@(b!(1`(=kU5(!"#/#-#'(A*@+0"(6`^6(HHD	A#	IOOO(	IDNH(	IC5CDO(	IC5CDO(
6BCDGOEFBHF	1(DNBK#2/:5(;,27'0B602/0"5(!,'#/5(Y$02B4&+0'5(^&23#@,g035(6#2/"#''03(.",&'(/#(=V&'*&/0(/:0(=88,-&->(&23(;&80/>(#8(6&'-'20*",2BS2:,+,/#"(=',@,2&/,#2(#"(^03*-/,#2(n<<<0=V0"#',@*%p'K>8#"/,-p(V0"%*%(^03*-03(Q#%0(/&-"#',@*%'=V0"#',@*%p(,2(13*'/(^02&'(."&2%$'&2/(^0-,$,02/%(n<(<(<0	A#	ICCD5EGC(	IGF5HEN(	ICNO5OHN(	IRP5RDD(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

209

K03,-,205(Q0$&"/@02/(#8

6BCDGPPPBHR	**i,'V0"(!.k(L**	**A#**	**IG5ODE(**	**IC5CNO(**	**IN5PER(**	**IN5PER(**

6BCDNFGHBHR	**1(K*'/,-02/0"5(Q#*+'0B+',235(^&23#@,g035(!'&-0(0(#8) (K*'/,-25C"$5)'&-0(0(#8) (K*'/,-25C"$5)'&-0(0(#8) (K*'/E@:$ $2&0$**	**ICD5OFF(**
	-&7/,g035(!'9"$2$5)#('-I*$.'*32/$,#2)G	

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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209

K03,-,205(Q0$&"/@02/(#8

6BCDRDOEBHN	1(!"#%$0-/,V05(K*'/,-02/0"5(^&23#@,g035(Q#*+'0BM',235(!'&-0+#B6#2/"#''03(;/*3>(/#(=V&'*&/0(/:0(;&80/>(&23(=88,-&->(#8(!"0#$0"&/,V0(12/,/:"#@+,2(;*$$'0@02/&/,#2(52(!&/,02/%(W230"7#,27(`,7:B^,%Z(6&"3,&-(;*"70">(9,/:(6&"3,#$*'@#2&">(M>$&%%	A#	IDO5CCE(	IO5NGR(	IGF5RRD(	IR5NOG(
6BCDRNREBHG	1(4#27(.0"@5(^&23#@,%035(Q#*+'0BM',235(!'&-0+#B6#2/"#''03(;/*3>(/#(Q0/0"@,20(/:0(=880-/(#8(1'+,7'*/,305(9:02(13303(/#(;/&23&"3(M'##3(J'*-#%0(4#90",27(.:0"&$,0%5(#2(K&[#"(6&"3,#V&%-*'&"(=V02/%(,2(!&/,02/%(9,/:(.>$0(D(Q,&+0/0%(K0'',/*%(`&"@#2>(Y*/-#@0%(.",&'(B(J4!CCFCEN	A#	IN5OCF(	IC5NNR(	IF5DFC(	IF5DFC(
6BCDRNEGBHG	1(Q#*+'0(+',235("&23#@,%035($'&-0+#B-#2/"#''03(/",&'(0V&'*&/,27(088,-&->(&23(%&80/>(#8(#"&'(2,2/03&2,+(/"0&/@02/(8#"(&/('0&%/(RD(900Z%(,2($&/,02/%(9,/:(q;>%/0@,-(;-'0"#%,%(&%%#-,&/03(52/0"%/,/,&'(4*27(Q,%0&%0q(b;;-B$4QU	A#	ICH5OFO(	IG5DFC(	ICN5CDP(	ICN5CDP(
6BCDRFROBHD	1RGGDX(^&23#@,g03(.",&'(/#(!"0V02/(L&%-*'&"(=V02/%(,2(`$L(B(^=!^$=L=	e0%	ICF5HHC(	IN5CFH(	IDH5CFC(	IDH5CFC(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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209

K03,-,205(Q0$&"/@02/(#8

6BCDREGDBHG **IGNH5OER(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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209

K03,-,205(Q0$&"/@02/(#8

6BCDFDDEBHD **IN5EON(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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K03,-,205(Q0$&"/@02/(#8

6BCDFGRRBHD	**K>#-&"3,&'(S%-:0@,&(&23(."&2%8*%,#2(bKSA.U**	**A#**	**IDD5GHO(**	**IF5FPD(**	**IDP5HHH(**	**IDP5HHH(**
6BCDFGRRBHG	**K>#-&"3,&'(S%-:0@,&(&23(."&2%8*%,#2(bKSA.U**	**A#**	**INH5HHH(**	**ICD5HHH(**	**IRD5HHH(**	**IRD5HHH(**
6BCDFNCNBHD	**Y!%*@,/(`,%/#",-&'(W;0"%(-#:#"/(%/*3>(bY"!`0W;U5(&(@*'/,-02/0"5("0/"#%$0-/,V0(-:&"/("0V,09(#8(8,"%/B/,@0(Y$%*@,/(b@&-,/02/&2U(*%0"%(,2(/:0(W2,/03(;/&/0%(B(!"#/#-#'(16BHRRBRCH**	**A#**	**IF5GCE(**	**ID5HDC(**	**IO5GGO(**	**IO5GGO(**
6BCDFNCRBHD	**1(!:&%0(DaG5(^&23#@,g035(Y$02B4&+0';/*3>(6#@$&",27(Y"&'(S\&g#@,+aQ0\&@0/:&%#20(&23(Y"&'(!#@&',3#@,30aQ0\&@0/:&%#20(,2(^0'&$%03(&23a#"(^08"&-/#">(K*'/,$'0(K>0'#@&(B(!"#/#-#'(6CFHDP**	**A#**	**IH(**	**IH(**	**IH(**	**IH(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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K03,-,205(Q0$&"/@02/(#8

6BCDFPECBHD	**1(^&23#@,g03(!:&%0(D(.",&'(#8(1KHHCH(,2(6#@+,2&/,#2(9,/:(!0@+"#',g*@&+(V%<(!0@+"#',g*@&+(1'#20(&%(T,"%/B',20(.:0"&$>(,2(!&/,02/%(9,/:(K0/&%/&/,-(A#2B;@&''(60''(4*27(6&2-0"(9:#%0(.*@#"%(`&V0(`,7:(!QB4C(=\$"0%%,#2**	**A#**	**IGOR(**	**ICCR(**	**IRHH(**	**IRHH(**

6BCDEHHDBHD	**1(^&23#@,g03(!:&%0(D(.",&'(#8(1KHHCH(,2(6#@+,2&/,#2(9,/:(A,V#'*@&+(L%<(A,V#'*@&+(1'#20(%(;0-#23(4,20(.:0"&$>(,2(!&/,02/%(?,/:(;/&70(SLaK0/&%/&/,-(?,'3(.>$0(A#2B;@&''(60''(4*27(6&2-0"(&23(4#9(.*@#"(=\$"0%%,#2(#8(!QB4C**	**A#**	**IOP5CDD(**	**IDF5EGE(**	**ICCR5ORP(**	**ICCR5ORP(**

ABCHCRPOBHC	**!^=6$;$YAX((!"#%$0-/,V0(^&23#@,g03(=V&'*&/,#2(#8(60'0-#\,+(S2/07"&/03(;&80/>(V%<($+*$"#802(#"(A&$"#\02<<<**	**e0%**	**IGHH(**	**IER(**	**IGER(**	**IGER(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

209

K03,-,205(Q0$&"/@02/(#8

ABCDECEPBHC	**K03,-&,3(=]*,/>(;,@*'&/,#2(!"#[0-/(K=Q.1!!(!"#V,30"%(1%(1'',0%(S2(=]*,/>(123(6&"0(b!1=6U**	**A#**	**IC5CDF5EPP(**	**ICHE5GHH(**	**IC5DGN5HPP(**	**IFCE5HRH(**
ABCDECOHBHC	**1(!:&%0(G5(Y$02B4&+0'5(^&23#@,g035(!&"&''0'(J"#*$(;/*3>(/#(=V&'*&/0(/:0(=88,-&->(&23(;&80/>(#8(S2/"&$'0*"&'(13@,2,%/"&/,#2(#8(1302#V,"*%BQ0',V0"03(S2/0"80"#2(1'$:&BD+(b"13BSTAU(,2(6#@+,2&/,#2(9,/:(60'0-#\,+(&23(J0@-,/&+,20(,2(!&/,02/%(9,/:(K&',72&2/(!'0*"&'(K0%#/:0',#@&**	**e0%**	**ICC5GNF(**	**IG5NHN(**	**ICN5ERH(**	**ICN5ERH(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

209

K03,-,205(Q0$&"/@02/(#8

ABCDECOFBHC	^0/"#%$0-/,V0(&23(!"#%$0-/,V0(S2/0"2&/,#2&'(=Z#;#2,-(^07,%/">(#8(/:0(."0&/@02/(&23(6',2,-&'(Y*/-#@0%(#8(!&/,02/%(9,/:(!*'@#2&">(=@+#',%@BIAY6YW.(!=	A#	ICH5ROE(	IG5GOO(	ICG5PER(	ICD5PPE(
ABCDEDHDBHC	1(!:&%0(CaD(;&80/>5(!:&"@&-#Z,20/,-(h(!:&"@&-#3>2&@,-(;/*3>(#8(1!;HHCT(?a(T'*->/#%,20(h(K&'/#%0(8#"(/:0(."0&/@02/(#8(13V&2-03(&23a#"(K0/&%/,-(;#',3(.*@#"%	A#	ICRN5HHD(	INP5DOC(	IDHG5DOD(	IDHG5DOD(
ABCDEDHNBHC	1(!:&%0(CaD(;/*3>(/#(S2V0%/,7&/0(/:0(;&80/>5(M,#'#7,-(&23(12/,B/*@#"(1-/,V,/>(#8(YA6Y;BCHD(,2(6#@+,2&/,#2(?,/:(Q*"V&'*@&+(,2(;*+[0-/%(?,/:(13V&2-03(!0",/#20&'(K&',72&2-,0%	e0%	IDF5RER(	IE5PEG(	IGN5RNO(	IGN5RNO(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

209

K03,-,205(Q0$&"/@02/(#8

ABCDEDHRBHC	**1(!:&%0(D5(A#2B^&23#@,g035(Y$02(4&+0'5(;,27'0(1"@5(K*'/,B602/0"(** **;/*3>(#8(.&'&g#$&",+(8#"(A0#&3[*V&2/(."0&/@02/(#8(J0"@',20(M^61CaD(** **K*/&/,#2(!&/,02/%(9,/:(=&"'>(.",$'0**	**ICD5DRH(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

209

K03,-,205(Q0$&"/@02/(#8

ABCDEDGFBHC	**1(!:&%0(D5(^&23#@,g035(Q#*+'0BM',235(!'&-0+#B6#2/"#''035(K*'/,B602/0"(** **;/*3>(/#(1%%0%%(/:0(=88,-&->**	**ICH5ERH(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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K03,-,205(Q0$&"/@02/(#8

ABCDEDFDBHC	1(!:&%0(G5($2/0"V02/,#2&'5(^&23#@,g035(K*'/,-02/0"5(Y$02B4&+0'(;/*3>(#8 Q66BDFCO(V%(;*2,/,2,+(,2(!&/,02/%(9,/:(13V&2-03(J&%/"#,2/0%/,2&'(;/"#@&' .*@#"%(&8/0"(."0&/@02/(9,/:($@&/,2,+	e0%	IDR5FFD(	IE5FPP(	IGG5GFC(	IGG5GFC(
ABCDEDFOBHC	12(Y$02B'&+0'5(!:&%0(CM(;/*3>(#8(A=YB!LBHC(t(6QNH(17#2,%/(12/,+#3>(b1!kHHRKU(#"($$,',@*@&+(9,/:(A,V#'*@&+(,2(!&/,02/%(9,/:(13V&2-03(#"(K0/&%/&/,-(K0'&2#@&	e0%	ICH5OFR(	IG5DFH(	ICN5CDR(	ICN5CDR(
ABCDEGRDBHCB?C	1(@*'/,-02/0"(%/*3>(9(&2(#$02B'&+0'(!:&%0($+($&"/(8#''#903(+>(&("&23<($'&-0+#(-#2/"#''035(3#*+'0(+',235(!:&%0($$($&"/(/#(0V&'*&/0(088,-&->5(%&80/>5(/#'0"&+,',/>5($:&"@&-#Z,20/,-%(#8(/:0(QA1(!I(,2:,+,/#"(KGOCN(,2(-#@+(9(-&$0-,/&+,20(&23("&3,#/:0"&$>(,2($&"/,-,$&2/%(9('#-&''>(&3V&2-03("0-/&'(-&2-0"	e0%	IP5RRN(	ID5OFF(	ICD5NDH(	ICD5NDH(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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K03,-,205(Q0$&"/@02/(#8

ABCDEGREBHC	.*"2%/#20X(!=4$61A(bK0'&2#@&(!:&%0(C(9,/:(K1J=1GU(%/*3>(6.1	A#	IDD5FCH(	IE5DGR(	IDP5ONR(	IDP5ONR(
ABCDENCNBHC	1(K*'/,-02/0"5(Q#*+'0BM',235(^&23#@,g035(!'&-0+#B6#2/"#''035(!:&%0(D(!,'#/(=V&'*&/,27(/:0(=88,-&->(&23(;&80/>(#8(S2/"&V02#*%(S'#$"#%/(,2(;*+[0-/%(?,/:(^&>2&*3s%(!:02#@02#2(;0-#23&">(/#(;>%/0@,-(;-'0"#%,%	A#	ICC5OGE(	IG5EOO(	ICR5FDR(	ICR5FDR(
ABCDENDOBHC	0T.RHO(,2(6#@+,2&/,#2(?,/:(!QBCa!QB4C(S2:,+,/#"(.:0"&$>((b/:0(u;/*3>(Q"*7vU(,2(&--#"3&2-0(9,/:(6',2,-&'(^0%0&"-:(!"#/#-#'(A*@+0"(0T.RHOBHHHP(02/,/'03(u1(!:&%0(D(A#2B"&23#@,g03(Y$02B'&+0'(;/*3>(=\&@,2,27(/:0(=880-/(#8(0T.RHO(,2(!&/,02/%(9,/:(13V&2-03(6&%/"&/0B"0%,%/&2/(!"#%/&/0(6&2-0"(b6^!6U	A#	IP5ECF(	IG5CHP(	ICD5ODR(	ICD5ODR(
ABCDERNNBHC	1(!:&%0(Sa'+(Y$02B4&+0'5(K*'/,B602/0"5(Q#%0B=%-&'&/,#2(;/*3>(/#(0T.RHO02#*%(S'#$"#AMT(HHF&/,02/%(9,/:					ICN5CDR(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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K03,-,205(Q0$&"/@02/(#8

ABCDEFCCBHC	K$A`6($"#[0-/	A#	IC05RCO(	IC5NOD(	IDH5HHH(	ICH5HHH(
ABCDEFDGBHC	!:&%0($M(.",&'(#8(K0/8#"@,25(Q,7#\,25(;,@V&%/&/,2(,2(;*+[0-/%(9,/:(13V&2-03(!&2-"0&/,-(6&2-0"(&23(Y/:0"(13V&2-03(;#',3(.*@#"%	A#	IDDN5OHN(	IDR5CPF(	IDRH5HHH(	IDRH5HHH(
ABCDEFRHBHC	12(1%%&>(/#(Q0/0-/(K*'/,BY"7&2(Q>%8*2-/,#2(;>23"#@0	A#	IE5HCN(	IEHC(	IE5ECR(	IE5ECR(
^BCHHGOPBCEB;C	^>&2(?:,/0(!&"/(6(b.,/'0($$$U(`$L(=&"'>($2/0"V02/,#2(;0"V,-0%(b=$;U(!"#7"&@	A#	IGCP5PEC(	IGC5PPE(	IGRC5PFO(	IGRC5PFO(
^BCHCGHGBCN	;#-,&'(K&"Z0/,27(13V0"/,%,27(6.^	A#	IGG5DCR(	IH(	IGG5DCR(	IGG5DCR(
;BCDRFODBHCB;D	12&/#@,-&'BT*2-/,#2&'(K&$$,27(#8(=2/0",-(A0*"&'(6,"-*,/%	A#	IRNR5FGD(	IPF5ONO(	IFND5NOH(	

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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K03,-,205(Q0$&"/@02/(#8

.BCDEFFEBHD	=880-/,V0(/&"70/,27(%*"V,V,27(3,@0",g&/,#2(,2/0"8&-0(9,/:(%@&''(@#'0-*'0(,2:,+,/#"%	A#	IDDG5NRH(	ICCP5RNF(	IGND5PPF(	IDHR5EPO(

K03,-,205(Q0$&"/@02/(#8U FR<PG IR5CGF5HDH(

A0*"#'#7>5(Q0$&"/@02/(#8

6BCDNRFGBHN	=88,-&->(&23(;&80/>(#8(1Q;BRCHD(b1@&2/&3,20(`6'U(=\/02303(^0'0&%0(6&$%*'0%(8#"(/:0(."0&/@02/(#8(40V#3#$&(S23*-03(Q>%Z,20%,&(,2(!&"Z,2%#2c%(Q,%0&%0(!&/,02/%5(&23(1Q;B1K.B(!QGHD(02/,/'03(qY$02B4&+0'(;&80/>(;/*3>(#8(1Q;BRCHDq	A#	IO5EFC(	ID5FDO(	ICC5GOP(	ICC5GOP(
6BCDNRENBHN	4#27B.0"@5($"#%$0-/,V05(@*',/2&/,#2&'5($&"&''0'B-#:#"/(%/*3>(@#2,/#",27(%&80/>(,2($&/,02/%(9,/:(K;(209'>(%/&"/03(#2(8,27#',@#3(#2-0(3&,'>(#"(/"0&/03(9,/:(&2#/:0"(&$$"#V03(3,%0&%0B@#3,8>,27(/:0"&$>	A#	IC5GNF(	INHN(	IC5ERH(	IC5ERH(
6BCDRCEEBHN	1(!:&%0(D(6',2,-&'(.",&'(#8(/:0(LkCRaDRHG(12/,+#3>(,2(`*2/,27/#2s%(Q,%0&%0	A#	ICPR5OFO(	IRO5EFH(	IDRN5FDP(	IDRN5FDP(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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A0*"#'#7>5(Q0$&"/@02/(#8

6BCDRNEHBHG	**1(6',2,-&'(;/*3>(#8(!&/,02/%(9,/:(;>@$/#@&/,-(A0*"#702,-(Y"/:#%/&/,-(`>$#/02%,#2(/#(1%%0%%(;*%/&,203(=880-/%(#8(Q"#\,3#$&(.:0"&$>(b;/*3>(A#<(CFGHF1U**	**A#**	**IC5GCR(**	**INOR(**	**IC5OHH(**	**IC5OHH(**
6BCDRNEDBHG	**1(!:&%0(G5(4#27B/0"@5(Y$02B'&+0'(%/*3>(#8(S%/"&308>'',20(,2(;*+[0-/%(9,/:(K#30"&/0(/#(;0V0"0(!&"Z,2%#2c%(Q,%0&%0((b!"#/#-#'(FHHHDBHCOU**	**A#**	**ID5RND(**	**IEFG(**	**IG5GHR(**	**IG5GHR(**
6BCDRNEEBHG	**1(Q#*+'0**					**IDH5OED(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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A0*"#'#7>5(Q0$&"/@02/(#8

ABCDENCOBHC	=AJ1J=B=BHHCX(1(Q#*+'0BM',235(!'&-0+#B6#2/"#''035(S2$&/,02/5(Q#%0B^&27,27(=88,-&->(;/*3>(#8(;/&--&/#(1'$"&g#'&@(b;.1!BHHCU(,2(;*+[0-/%(9,/:(=$,'0$%>(9,/:(&(!"03,-/&+'0(;0,g*"0(!&//0"2	A#	IH(	IH(	IH(	IH(
ABCDENFEBHCB?C	1(^&23#@,g035(Q#*+'0BM',235(!'&-0+#B6#2/"#''035(Q#%0(T,23,27(;/*3>(/#(=V&'*&/0(/:0(;&80/>(&23(=88,-&->(#8(!&3%0V#2,'(&%(13[*2-/,V0(."0&/@02/(#8(T#-&'BY2%0/(;0,g*"0%(,2(13*'/(;*+[0-/%(9,/:(Q"*7B^0%,%/&2/(=$,'0$%>	A#	ICH5HPF(	IG5HDP(	ICG5CDR(	ICG5CDR(

A0*"#'#7>5(Q0$&"/@02/(#8U	CN<OH	IRNH5ECF(

A0*"#%-,02-0%5(Q0$&"/@02/(#8

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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A0*"#%-,02-0%5(Q0$&"/@02/(#8

6BCDRDPPBHG	**;/*3>(#8(=&"'>(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q**	**A#**	**IGFN5NPC(**	**ICND5DGC(**	**IRHF5EDD(**	**IRH5FED(**

6BCDRDPPBHGBSHC	**;/*3>(#8(=&"'>(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q**	**A#**	**ICDC5NPE(**	**INE5NCC(**	**ICFO5PHO(**	**ICF5OPC(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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A0*"#%-,02-0%5(Q0$&"/@02/(#8

6BCDFPEHBHNB;C	60''B%$0-,8,-(&2&'>%,%(#8(%*+BZ,2#@0%(,2(%-:,g#$:"02,&	A#	ICG5OPF(	IE5NGN(	IDC5GGH(	IDC5GGH(
6BCDFPEHBHR	60''B%$0-,8,-(&2&'>%,%(#8(%*+BZ,2#@0%(,2(%-:,g#$:"02,&	A#	IDRH5HHH(	IPO5HRD(	IGNO5HRD(	IGNO5HRD(
ABCDEFDRBHC	Y:,#(SB6#"$%(!"#7"&@	A#	ICG5RHH(	IC5RHH(	ICR5HHH(	IE5RHH(
;BCDRFODBHCB;D	12&/#@,-&'BT*2-/,#2&'(K&$$,27(#8(=2/0",-(A0*"&'(6,"-*,/%	A#	IRNR5FGD(	IPF5ONO(	IFND5NOH(	IFND5NOH(
;BCDRFODBHCB;G	12&/#@,-&'BT*2-/,#2&'(K&$$,27(#8(=2/0",-(A0*"&'(6,"-*,/%	A#	IGGP5GDR(	ICEN5ERC(	IRCN5HEF(	IRCN5HEF(
.BCDFPEHBHN	60''B%$0-,8,-(&2&'>%,%(#8(%*+BZ,2#@0%(,2(%-:,g#$:"02,&	A#	IDRH5HHH(	ICDE5NPH(	IGEE5NPH(	IGEE5NPH(
		A0*"#%-,02-0%5(Q0$&"/@02/(#8U		R<EH		IC5PEO5NPC(

Y+%/0/",-%(h(J>20-#'#7>5(Q0$&"/@02/(#8

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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Y+%/0/",-%(h(J>20-#'#7>5(Q0$&"/@02/(#8

6BCDRRDEBHN	**1(!:&%0(G(;/*3>(/#(=V&'*&/0(/:0(=88,-&->(&23(;&80/>(#8(='&7#',\(,2(6#@+,2&/,#2(9,/:(=%/"&3,#'aA#"0/:,23"#20(1-0/&/0(8#"(/:0(K&2&70@02/(#8(`0&V>(K02%/"*&'(M'003,27(1%%#-,&/03(9,/:(W/0",20(T,+"#,3%(,2(!"0@02#$&*%&'(?#@02**	**A#**	**IP5EGH(**	**ID5PCP(**	**ICD5FNP(**	**IF5GDR(**
6BCDRFECBHG	**1(!:&%0(G(;/*3>(/#(=V&'*&/0(/:0(;&80/>(&23(=88,-&->(#8(='&7#',\(,2(6#@+,2&/,#2(9,/:(=%/"&3,#'aA#"0/:,23"#20(1-0/&/0(,2(;*+[0-/%(9,/:(K#30"&/0(/#(;0V0"0(=23#@0/",#%,%B1%%#-,&/03(!&,2!"#/#-#'(A#<(KCNBEHD**	**A#**	**IN5CCH(**	**IC5DGG(**	**IR5GNG(**	**IN5DEN(**
6BCDFDDFBHD	**=\/02%,#2(;/*3>(/#(=V&'*&/0(/:0(=88,-&->(&23(;&80/>(#8(='7&'#\(,2(!"0@02#$&*%&'(?#@02(9,/:(`0&V>(K02%/"*&'(M'003,27(1%%#-,&/03(9,/:(W/0",20(T,+"#,3%(B(!"#/#-#'(KCDBOCF**	**A#**	**IO5GFR(**	**ID5FEE(**	**ICC5HND(**	**ICC5HND(**
6BCDFFOCBHD	**1(!:&%0(G+(;/*3>(/#(=V&'*&/0(/:0(4#27B.0"@(;&80/>(&23(=88,-&->(#8(='&7#',\(,2(6#@+,2&/,#2(9,/:(=%/"&3,#'aA#"0/:,23"#20(1-0/&/0(8#"(/:0(K&2&70@02/(#8(`0&V>(K02%/"*&'(M'003,27(1%%#-,&/03(9,/:(W/0",20(T,+"#,3%(,2(!"0@02#$&*%&'(?#@02!"#/#-#'(A#<(KCFBDOG**	**A#**	**IDF5FRN(**	**IE5PPF(**	**IGN5FRC(**	**IGN5FRC(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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Y+%/0/",-%(h(J>20-#'#7>5(Q0$&"/@02/(#8

ABCDNEHEBHC	**=\/02%,#2(;/*3>(/#(=V&'*&/0(/:0(4#27B.0"@(;&80/>(&23(=88,-&->(#8(='&7#',\(,2(;*+[0-/%(9,/:(K#30"&/0(/#(;0V0"0(=23#@0/",#%,%B1%%#-,&/03(!&,2**	**e0%**	**ID5HCP(**	**IFHF(**	**ID5FDR(**	**ID5FDR(**

Y+%/0/",-%(h(J>20-#'#7>5(Q0$&"/@02/(**N<GH** **IRO5PCF(**

Y"/:#$&03,-(;*"70">5(Q0$&"/@02/(#8

6BCDNEHHBHR	**$!#)#*2**	**ICEF5CNH(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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Y"/:#$03,-%

ABCDEHCFBHC	**6#@@#2(@0-:&2,%@%("07*'&/,27(#%/0#->/0(%*$$#"/(8#"(+#20("0@#30',27(&23(020"7>(@0/&+#',%@**	**A#**	**ICHN5RGD(**	**ICH5NRG(**	**ICCN5POR(**	**ICCN5POR(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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!&/:#'#7>5(Q0$&"/@02/(#8

ABCDECPRBHC	^#'0(#8(^03*-03(A,/",-(Y\,30(,2(T#"@&/,#2(#8(=&"'>B;/&70(M"0&%/(40%,#2%	A#	IRH5POP(	IH(	IRH5POP(		
ABCDEDCHBHC	`,%/#$&/:#'#7>(-#""0'&/03(]*&2/,/&/,V0(&2&'>%,%(#8('*27(2#3*'0%(9,/:(4Q6.(8#"(0&"'>(30/0-/,#2(#8('*27(-&2-0"	A#	IG5EPE(	ID5HGC(	IR5ODO(	IR5ODO(	
;BCDRFODBHCB;D	12&/#@,-&'BT*2-/,#2&'(K&$$,27(#8(=2/0",-(A0*"&'(6,"-*,/%	A#	IRNR5FGD(	IPF5ONO(	IFND5NOH(		
			!&/:#'#7>5(Q0$&"/@02/(#8U		D<CH		IGC5FRF(

!03,&/",-%5(Q0$&"/@02/(#8

ABCDNGCNBHC	1(!:&%0(D(K*'/,-02/0"<(;,27'0(Q#%0<(^&23#@,g03<(Q#*+'0(M',23<(!'&-0+#(6#2/"#''03<((!&"&''0'(J"#*$(;/*3>(=V&'*&/,27(/:0(;&80/>(&23(=88,-&->(#8(.9#(Q#%0%(#8(;/&22%$#"8,2(,2(6#@+,2&/,#2 9,/:(!::#/#/:0"&$>(,2(A0#2&/0%	e0%	IGO(	ICD(	IRH(	IRH(	

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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!03,&/",-%5(Q0$&"/@02/(#8

ABCDRDRNBHC	RPPNB(;Y4$(j(;#',/:"#@>-,2(!03,&/",-(Q0V0'#$@02/(!"#7"&@	e0%	IbCR5GORU	IbN5FCRU	IbDH5HHHU	IbDH5HHHU
ABCDRNCGBHC	?Z(Y"30"(G(12(Y$02B4&+0'(^&23<(K*'/,B602/0"(;/*3>(/#(=V&'<(=88,-&->(h(;&80/>(#8(&(;,27'0(Q#%0(#8(Y"&'(;#',/:"#@>-,2(6#@$<(/#(;,27'0Q#%0($2/"&@*%-*'&"(608/",&\#20(t(;,27'0BQ#%0(Y"&'(1g,/:"#@>-,2(,2(."0&/@02/(#8(!&/,02/%(9a(W2-#@$',-&/03(W"#702,/&'(J#2#"":0&(9a(#"(9a#*/(6#2-#@,/&2/(6:'&@>3,&	e0%	ICOH(	IRN(	IDGN(	IDGN(
ABCDRODGBHC	1(!:&%0(DaG5(^&23#@,g035(Y$02B4&+0'5(K*'/,B602/0"(;/*3>(/#(Q0/0"@,20(/:0(;&80/>(&23(=88,-&->(#8(;#',/:"#@>-,2(,2(13#'0%-02/%(bCD(/#(CE(>"%<(#8(&705(,2-'*%,V0U(&23(6:,'3"02(bwD(@#%<(/#(xCD(>"%<(#8(&70U(9a(;*%$0-/03(#"(6#28,"@03(6#@@*2,/>B1-]*,"03(M&-/0",&'(!20*@#2,&(b61M!U	e0%	IbE5RCPU	IbD5DRFU	IbP5EERU	IbP5EERU
ABCDENRRBHC	^0&-:(Y*/(&23(^0&3B(133,/,#2&'(T*23%	A#	IE5OHH(	IH(	IE5OHH(	IE5OHH(
^BHCHHORBNH	^07,#2&'(6#@$"0:021392 Tm (K28#)01Tj "0:4&'(6#@$"0:021392 Tm ()733 -7"97 0 TZ*% Td (IbC37,#2&'(6#@$"0:021392 Tm) Tj -2798 0					

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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!:>%(!:&"@(K0/a6&"3,#(;-,02-05(Q0$&"/@02/(#8							
6BCDNDGGBHR	**Q08O-/,V0(@0'&2#-#"/,2(%,72&',27(*230"'>,27(.DQB&%%#-,&/03(0"0-/,'0(3>%8*2-/,#2**	**A#**	**IDDR5CDF(**	**IPO5NCE(**	**IGDG5RNG(**	**IGDG5RNG(**
6BCDNGROBHDB;C	**12/,#\,3&2/B!!1^&'$:&(,2/0"&-/,#2("03*-0%(&3,$#%,/>**	**A#**	**ICE5RER(**	**IC5NHE(**	**ICO5POD(**	**ICO5POD(**
6BCDNGROBHR	**12/,#\,3&2/B!!1^&'$:&(,2/0"&-/,#2("03*-0%(&3,$#%,/>**	**A#**	**ICRC5CDG(**	**ICD5HPH(**	**ICFG5DCG(**	**ICFG5DCG(**
6BCDRCORBHG	**^0%$CO(&(2#V0'(7020/,-(30/0"@,2&2/(#8(+'##3($"0%%*"0("07*'&/,#2(&23("02&'(8*2-/,#2**	**A#**	**IEH5HHH(**	**IE5HHH(**	**IEE5HHH(**	**IEE5HHH(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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! :>%(! :&"@(K0/a6&"3,#(;-,02-05(Q0$&"/@02/(#8						
6BCDFEHNBHG	$2/0"$'&>(+0/9002(4,$#-&',2(D(&23(M&-/0",&'(;,30"#$:#"0%(,2($28'&@@&/#">(M#90'(Q,%0&%0	A#	IRO5DRH(	IH(	IRO5DRH(	IRO5DRH(
6BCDFENRBHR	^0%#*"-0(8#"(^&/(J020/,-(K#30'%(#8(10"#+,-(6&$&-,/>	A#	ICEE5OCD(	IPR5CDP(	IDED5PNC(	IDED5PNC(
6BCDFEORBHCBSHC	12/,BS28'&@@&/#">(&23(12/,BY\,3&2/(=880-/%(#8(!#/&/#(12/:#->&2,2%(BB(^#'0(#8(J*/(M&-/0",&	A#	ID5DGH(	IPRR(	IG5COR(	IG5COR(
6BCDFPDNBHD	6&/&'>/,-($"#2X(1(A#V0'(^07*'&/#"(#8(A0/#%,%(,2($28'&@@&/#">(M#90'(Q,%0&%0	A#	IRO5DRH(	IH(	IRO5DRH(	IRO5DRH(
ABCDRPCNBHCB1C	`#9(A#2B."&2%-",$/,#2&'($^TG(!"0V02/%(14Q	A#	ICNG5ERH(	IEF5PHF(	IDDH5FRF(	ICC5HGG(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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!:>%(!:&"@(K0/a6&"3,#(;-,02-05(Q0$&"/@02/(#8						
.BCDFPFRBHD	**$2/"&"02&'(1"/0",0%(;02%0(AB8#"@>'(!0$/,30%(40&3,27(/#(L&%-*'&"($2[*">(,2(;0$%,%**	**A#**	**ICF5RNO(**	**IC5GDN(**	**ICE5OED(**	**ICE5OED(**
.BCDEHNDBHC	**."&2%80"(!$X(6&@(K-6&"/:>((Q0-"0&%03(&*/#$:&7>('0&3%(/#($"#/0#/#\,-,/>(&23(%020%-02-0(,2:>$0"/02%,#2B&%%#-,&/03($"0@&/*"0(V&%-*'&"(&7,27**	**A#**	**IRD5DCF(**	**IH(**	**IRD5DCF(**	**IRD5DCF(**
.BCDEDGRBHC	**.:0($28'*02-0(#8(;0\(&23(K&/*"&/,#2(#2(M,#@0-:&2,-%(#8(e#*/:(^*22,27**	**A#**	**IH(**	**IC5EHG(**	**IC5EHG(**	**IC5EHG(**
			!:>%(!:&"@(K0/a6&"3,#(;-,02-05(Q0$&		**DD<HR**	**IG5NCO5COO(**

!:>%,-,&2(1%%,%/&2/(;/*3,0%

ABCDECPRBHC

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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!%>-:,&/">5(Q0$&"/@02/(#8

6BCHCGCEBCN	6:,'3(&23(13#'0%-02/(!%>-:,&/">(^0%,302->(&23(."&,2,27(!"#7"&@	A#	IDP5HNO(	IPRD(	IGH5HHH(	IGH5HHH(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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!%>-:,&/">5(Q0$&"/@02/(#8

6BCDRDPPBHG	**;/*3>(#8(=&">(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q**	**A#**	**IGFN5NPC(**	**ICND5DGC(**	**IRHF5EDD(**	**INRH5POG(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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!%>-:,&/">5(Q0$&"/@02/(#8

6BCDFHEGBHD	6YD(S2:&'&/,#2(02:&2-0%(/:0('&+,',/>(#8(80&"(@0@#">	A#	IDRH5HHH(	IOP5CHH(	IGGP5CHH(	ICF5PRR(
6BCDEHHHBHD	Y:,#(Y$,#,3(12&'>/,-%(!"#[0-/	A#	IER5RCO(	IE5RRD(	IOG5HEH(	IDO5DNN(
ABCDEHOFBHC	=3*-&/,27(&(6#@@*2,/>(?,/:,2(&(6#@@*2,/>X(K02/&'(`0&'/:(T,"%/(1,3(&23(J"002(i#20(."&,2,27(&/(/:0(W2,V0"%,/>(#8(.#'03#(&23(M0>#23	A#	ICCR5EGN(	IP5DRP(	ICDN5PPG(	ICD5NPP(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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!%>-:,&/">5(Q0$&"/@02/(#8

ABCDECEPBHC	K03,-&,3(=]*,/>(;,@*'&/,#2(!"#[0-/(K=Q.1!!(!"#V,30"%(1%(1'',0%(S2(=]*,/>(123(6&"0(b!1=6U	A#	IC5CDF5EPP(	ICHE5GHH(	IC5DGN5HPP(	
ABCDECODBHC	Q0%,7203(8#"(Q1.1	A#	ICGO5FHN(	ICC5HOO(	ICNP5FPD(	ICGN5EDG(
ABCDECPDBHC	=@0"702->(Q0$&"/@02/(6&%0(K&2&70"	A#	IFH5HHH(	IH(	IFH5HHH(	IFH5HHH(
ABCDERDGBHC	Y$,#,3(YV0"3#%0(^03*-/,#2(!"#7"&@	A#	IGC5OCP(	IG5COC(	IGR5HHH(	IGR5HHH(
ABCDEFHNBHC	Y:,#(;/&/0(Y$,#,3(^0%$#2%0(b;Y^U(!"#[0-/	A#	IGRF5OCO(	IGR5FOD(	IGPD5RHH(	IGPD5RHH(
						IC5NOR5FPN(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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!*+',-(`'/:a`#@0'&23(;0-*",/>5(Q0$&"/@02/(#8

A8CDERDO8HC	**;/*3>(&23(?0''20%%(.,$%(8#"(=\&@%**	**A#**	**IC5RHH(**	**IH(**	**IC5RHH(**	**IC5RHH(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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^&3,#'#7>5(Q0$&"/@02/(#8

ABCDRNFOBHC	**T,"%/(;02%0(M"0&%/(=\&@a.:0"@&B;-&2(;>%/0@(/#(6#''0-/(Q&/&(/#(Q0/<(/:0(;&80/>(h(=88,-&->(#8(/:0(S2V0%/,7&/,#2&'(Q0V,-0(8#"(!*"$<(S2-'<(+*/(2#/(4,@,/03(/#5(;*+@,%%,#2(#8(&2(1$$',-&/,#2(/#(/:0(TQ1(/#(Y+/&,2(!"0@&"Z0/(6'0&"&2-0(#"(!"0@&"Z0/(1$$"#V&'(/#(6#@@0"-,&''>(K&"Z0/(/:0(S2V0%/,7&/,#2&'(Q0V,-0**	**e0%**	**IF5RGO(**	**IC5PFD(**	**IO5RHH(**	**IO5RHH(**
ABCDFPFOBHCB?C	**13B$RGBHHDr(1(!:&%0(D5(K*'/,B602/0"5(Y$02(4&+0'5(^&23#@,g03(;/*3>(/#(=V&'*&/0(=88,-&->(&23(;&80/>(#8(1302#V,"&'($RG(b13B$RGU(,2(-#@+,2&/,#2(9,/:(A,V#'*@&+(V0"%*%(A,V#'*@&+(&'#20(,2(!&/,02/%(9,/:(^0-*""02/(`0&3(&23(A0-Z(;]*&@#*%(60''(6&"-,2#@&(b`A;66U**	**A#**	**IGC5RPG(**	**IP5NEO(**	**INC5HEC(**	
ABCDEDHDBHC	**1(!:&%0(CaD(;&80/>5(!:&"@&-#Z,20/,-(h(!:&"@&-#3>2&@,-(;/*3>(#8(1!;HHCT(?a(T'*->/#%,20(h(K&'/#%0(8#"(/:0(."0&/@02/(#8(13V&2-03(&23a#"(K0/&%/,-(;#',3(.*@#"%**	**A#**	**ICRN5HHD(**	**INP5DOC(**	**IDHG5DOD(**	

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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^&3,#'#7>5(Q0$&"/@02/(#8

ABCDEDCRBHC	1(!:&%0(CaC+5(K*'/,-02/0"5(Y$02B'&+0'(.",&'(#8(Y2-#'>/,-(KJC(=\$"0%%,27(K*/&2/(`*@&2(!&$,''#@&(L,"*%(b`!LU(=F(&23(=E(bKJCB=F=EU5(9,/:(1302#V,"*%(L&--,20(=\$"0%%,27(K*/&2/(`!L(=F(&23(=E(b13B=F=EU(&23(1/0g#',g*@&+(,2(!&/,02/%(9,/:(`!L(1%%#-,&/03(6&2-0"%	e0%	IRR5GPC(	ICF5FCE(	IED5HHO(	
				^&3,#'#7>5(Q0$&"/@02/(#8U		C<HH		IO5RHH(

^0%,3(!"7@B13@,2,%/"&/,V0

ABCDEDRNBHC	."&V0'(J"&2/(8#"(K03,-&'(Q0V,-0(M*%,20%%(;0"V,-0%	A#	IN5HHH(	IH(	IN5HHH(	IN5HHH(
			^0%,3(!"7@B13@,2,%/"&/,V0U		C<HH	IN5HHH(

^0%,3(!"7@BT&@,'>(!"&-/,-0

6BCDFEHCBHD	DHCOBDHCP(6:##%0(Y:,#(T,"%/X(!6K`	A#	IDEH5HHH(	IH(	IDEH5HHH(	IDEH5HHH(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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^0%,3(!"7@BT&@,'>(!"&-/,-0

ABCDFEHCBHC	6:##%0(Y:,#(T,"%/X(!6K`	e0%	IDCH5HHH(	IH(	IDCH5HHH(	ICRE5RHH(

^0%,3(!"7@BT&@,'>(!"&-/,-0U C<ER INDE5RHH(

^0%,3(!"7@BK03,-,20

6BCDDEONBHE	1(!"#%$0-/,V05(K*'/,-02/0"5(;,27'0BM',235(^&23#@,g035(6#2/"#''03(.",&'(6#@$&",27(/:0(K#\>m(Q"*7B6#&/03(M&''##2(V%<(;/&23&"3(M&''##2(127,#$'&%/>(8#"(."0&/@02/(#8(T0@#"#$#$',/0&'(1"/0",0%	A#	IGPN(	ICHF(	IRHH(

6BCDGDNFBHR	.:0(^#'0(#8(=23#/:0',2BS(,2(!&/,02/%(9,/:(`0&"/(T&,'*"0(&23(!*'@#2&">(L02#*%(`>$0"/02%,#2	A#	IH(	IH(	IH(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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^0%,3(!"7@BK03,-,20

6BCDNFGHBHR	1(K*'/,-02/0"5(Q#*+'0B+',235(^&23#@,g035(!'&-0+#B-#2/"#''035(!:&%0(G(;/*3>(/#(1%%0%%(/:0(=88,-&->(&23(;&80/>(#8(Y"&'(M!;BGCN3BK^(13303BY2(/#(."0$"#%/,2,'5($2:&'03(b.>V&%#pU(,2(;*+[0-/%(9,/:(!*'@#2&">(1"/0",&'(`>$0"/02%,#2	A#	IP5OPE(	ID5PFP(	ICD5OFF(	
6BCDRODHBHD	1(^&23#@,g03(.",&'(6#@$&",27(/:0(=4WL$1m(Q"*7B='*/,27(;/02/(L0"%*%(i,'V0"p(!.kp(;/02/(8#"(."0&/@02/(#8(;*$0"8,-,&'(T0@#"&'(&23a#"(!"#\,@&'(!#$',/0&'(1"/0",0%	A#	IR5FNH(	IC5FPD(	IE5GGC(	IGFE(
6BCDFGRRBHD	K>#-&"3,&'($%-:0@,&(&23(."&2%8*%,#2(bK$A.U	A#	IDD5GHO(	IF5FPD(	IDP5HHH(	

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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^0%,3(!"7@BK03,-,20

ABCHCRPOBHC	**!^=6$;$YA((!"#%$0-/,V0(^&23#@,g03(=V&'*&/,#2(#8(60'0-#\,+($2/07"&/03(;&80/>(V%<($+*$"#802(#"(A&$"#\02««	**IGHH(**	**IER(**	**IGER(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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^0%,3(!"7@B!%>-:,&/">

ABCDECEPBHC	**K03,-&,3(=]*,/>(;,@*'&/,#2(!"#[0-/(K=Q.1!!(!"#V,30"%(1%(1'',0%(S2(=]*,/>(123(6&"0(b!1=6U**	**A#**	**IC5CDF5EPP(**	**ICHE5GHH(**	**IC5DGN5HPP(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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;*"70">5(Q0$&"/@02/(#8

6BCDNECCBHN	**^&23#@,g035(K*'/,-02/0"5(6#2/"#''03(.",&'(/#(6#@$&"0(M0%/(=23#V&%-*'&"(V0"%*%(M0%/(;*"7,-&'(.:0"&$>(,2(!&/,02/%(9,/:(6",/,-&'(4,@+(%-:0@,&**	**A#**	**ICD5GDE(**	**IG5FPO(**	**ICF5HDR(**	**ICF5HDR(**
6BCDRDOEBHN	**1(!"#%$0-/,V05(K*'/,-02/0"5(^&23#@,g035(Q#*+'0BM',235(!'&-0+#B6#2/"#''03(;/*3>(/#(=V&'*&/0(/:0(;&80/>(&23(=88,-&->(#8(!"0#$0"&/,V0(12/,/:"#@+,2(;*$$'0@02/&/,#2(52(!&/,02/%(W230"7#,27(`,7:B^,%Z(6&"3,&-(;*"70">(9,/:(6&"3,#$*'@#2&">(M>$&%%**	**A#**	**IDO5CCE(**	**IO5NGR(**	**IGF5RRD(**	**IGC5HFP(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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;*"70">5(Q0$&"/@02/(#8

6BCDRDPPBHG	**;/*3>(#8(=&"'>(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q**	**A#**	**IGFN5NPC(**	**ICND5DGC(**	**IRHF5EDD(**

6BCDRDPPBHGBSHC	**;/*3>(#8(=&"'>(M"&,2(1'/0"&/,#2%(/:&/(!"03,-/(Q0V0'#$@02/(#8(6:"#2,-(!.;Q**	**A#**	**ICDC5NPE(**	**INE5NCC(**	**ICFO5PHO(**

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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;*"70">5(Q0$&"/@02/(#8

6BCDRRGHBHN	12($2/0"2&/,#2&'5(K*'/,-02/0"5(^&23#@,g035(Q#*+'0BM',235(!'&-0+#B6#2/"#''03(!:&%0(G(.",&'($2V0%/,7&/,27(=88,-&->(h(;&80/>(#8(^,V&"#\&+&2(/#(^03*-0(^,%Z(#8(K&[#"(.:"#@+#/,-(L&%-*'&"(=V02/%(,2(!&/,02/%(9a(;>@$/#@&/,-(!0",$:0"&'(1"/0">(Q,%0&%0(W230"7#,27(4#90"(=\/"0@,/>(^0V&%-*'&",g&/,#2(!"#-03*"0%	IR5HOR(	IF5FCC(	IF5FCC(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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;*"70">5(Q0$&"/@02/(#8

6BCDEHHDBHD	**1(^&23#@,g03(!:&%0(D(.",&'(#8(1KHHCH(,2(6#@+,2&/,#2(9,/:(A,V#'*@&+(L%<(A,V#'*@&+(1'#20(%(;0-#23(4,20(.:0"&$>(,2(!&/,02/%(?,/:(;/&70($LaK0/&%/&/,-(?,'3(.>$0(A#2B;@&''(60''(4*27(6&2-0"(&23(4#9(.*@#"(=\$"0%%,#2(#8(!QB4C**	**A#**	**IOP5CDD(**	**IDF5EGE(**	**ICCR5ORP(**	
ABCDREGPBHC	**!&"02/(;,/0X((6&%0(6#@$"0:02%,V0(6&2-0"(602/0"**	**e0%**	**ICO5PDH(**	**IH(**	**ICO5PDH(**	
ABCDROCEBHDB?CD	**.:0(W2,V0"%,/>(#8(.#'03#(^#-Z0/(T*0'(T*23BBT"00(^&3,-&'(;023,27(Q0V,-0**	**A#**	**IH(**	**IH(**	**IH(**	**IH(**
ABCD[Td FC		**0;ʂʂ='**				

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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;*"70">5(Q0$&"/@02/(#8

ABCDECOFBHC	^0/"#%$0-/,V0(&23(!"#%$0-/,V0(S2/0"2&/,#2&'(=Z#;#2,-(^07,%/">(#8(/:0(."0&/@02/(&23(6',2,-&'(Y*/-#@0%(#8(!&/,02/%(9,/:(!*'@#2&">(=@+#',%@BIAY6YW.(!=	A#	ICH5ROE(	IG5GOO(	ICG5PER(	IDEP(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

2#/

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;*"70">5(Q0$&"/@02/(#8

ABCDEDCRBHC	1(!:&%0(CaC+5(K*'/,-02/0"5(Y$02B'&+0'(.",&'(#8(Y2-#'>/,-(KJC(=\$"0%%,27(K*/&2/(`*@&2(!&$,''#@&(L,"*%(b`!LU(=F(&23(=E(bKJCB=F=EU5(9,/:(1302#V,"*%(L&--,20(=\$"0%%,27(K*/&2/(`!L(=F(&23(=E(b13B=F=EU(&23(1/0g#',g*@&+(,2(!&/,02/%(9,/:(`!L(1%%#-,&/03(6&2-0"%	e0%	IRR5GPC(	ICF5FCE(	IED5HHO(
ABCDEDFOBHC	12(Y$02B'&+0'5(!:&%0(CM(;/*3>(#8(A=YB!LBHC(t(6QNH(17#2,%/(12/,+#3>(b1!kHHRKU(#"($$,',@*@&+(9,/:(A,V#'*@&+(,2(!&/,02/%(9,/:(13V&2-03(#"(K0/&%/&/,-(K0'&2#@&				ICN5CDR(

K03,-,20(&23(4,80(;-,02-0%5(6#''070(#8

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;*"70">5(Q0$&"/@02/(#8

ABCDEGREBHC	**.*"2%/#20X(!=4$61A(bK0'&2#@&(!:&%0(C(9,/:(K1J=1GU(%/*3>(6.1**	**A#**	**IDD5FCH(**	**IE5DGR(**	**IDP5ONR(**	
;BCDRFODBHCB;D	**12&/#@,-&'BT*2-/,#2&'(K&$$,27(#8(=2/0",-(A0*"&'(6,"-*,/%**	**A#**	**IRNR5FGD(**	**IPF5ONO(**	**IFND5NOH(**	
;BCDRFODBHCB;G	**12&/#@,-&'BT*2-/,#2&'(K&$$,27(#8(=2/0",-(A0*"&'(6,"-*,/%**	**A#**	**IGGP5GDR(**	**ICEN5ERC(**	**IRCN5HEF(**	

;*"70">5(Q0$&"/@02/(#8U	**N<OE**			**IRF5EGN(**

W"#'#7>5(Q0$&"/@02/(#8

6BCDDNNOBHE	**Y$/,@,g&/,#2(&23(;,@*'&/,#2(#8(I,320>(!&,"03(Q#2&/,#2(!"#7"&@%**	**A#**	**IDN5GFN(**	**ICD5RNO(**	**IGF5PCD(**	**IGF5PCD(**

A&/*"&'(;-,02-0%(h(K&/:0@&/,-%5(6#''070(#8

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M,#'#7,-&'(;-,02-0%5(Q0$&"/@02/(#8

6BCDRORNBHD	Q0V0'#$,27(&2(&2,@&'(@#30'(/#(,302/,8>(/:0("#'0(#8(/:0(%$0"@(-02/",#'0(,2(80"/,',/>	A#	ICDR5RDH(	IFD5CGD(	ICOE5FRD(	ICOE5FRD(
6BCDRPGDBHDB;C	$@@*20(=V&%,#2(,2(1]*&/,-(^:&+3#V,"&'(!&/:#702%	A#	IDPH5FPO(	IH(	IDPH5FPO(	IDPH5FPO(
6BCDFHEGBHD	6YD($2:&'&/,#2(02:&2-0%(/:0('&+,',/>(#8(80&"(@0@#">	A#	IDRH5HHH(	IOP5CHH(	IGGP5CHH(	IGHR5CPH(
6BCDFPNGBHD	^=;=1^6`(B(!J^X(='*-,3&/,27(K&,g0(J020(^07*'&/#">(A0/9#"Z%(/#(1--0'0"&/0(."&2%'&/,#2&'(J02#@,-%	A#	ICHE5NPF(	IRH5COC(	ICRE5FEE(	ICRE5FEE(

A&/*"&'(;-,02-0%(h(K&/:0@&/,-%5(6#''070(#8

2#/

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M,#'#7,-&'(;-,02-0%5(Q0$&"/@02/(#8

ABCDFPDFBHC	K,-"#^A1("07*'&/,#2(#8(7*,3&2-0("0-0$/#"%(,2(&\#2&'($&/:8,23,27	A#	IGHH5HHH(	ICNO5RHH(	INNO5RHH(	INNO5RHH(
ABCDFPNRBHC	602/"#%#@0B'#-&',g03(/>"#%,20(Z,2&%0(_1 ID("07*'&/0%(-0''($"#',80"&/,#2	A#	IGHH5HHH(	ICNP5FFE(	INNP5FFE(	INNP5FFE(
;BCDDPCOBHNB;D	.^$!CG(111B1.!&%0(YV0"0\$"0%%,#2(,2(6:"#@#%#@&'($2%/&+,',/>(&23(M"0&%/(6&2-0"	A#	IF5NEH(	IG5HEG(	IP5RNG(	IP5RNG(

A&/*"&'(;-,02-0%(h(K&/:0@&/,-%5(6#''070(#8

2#/

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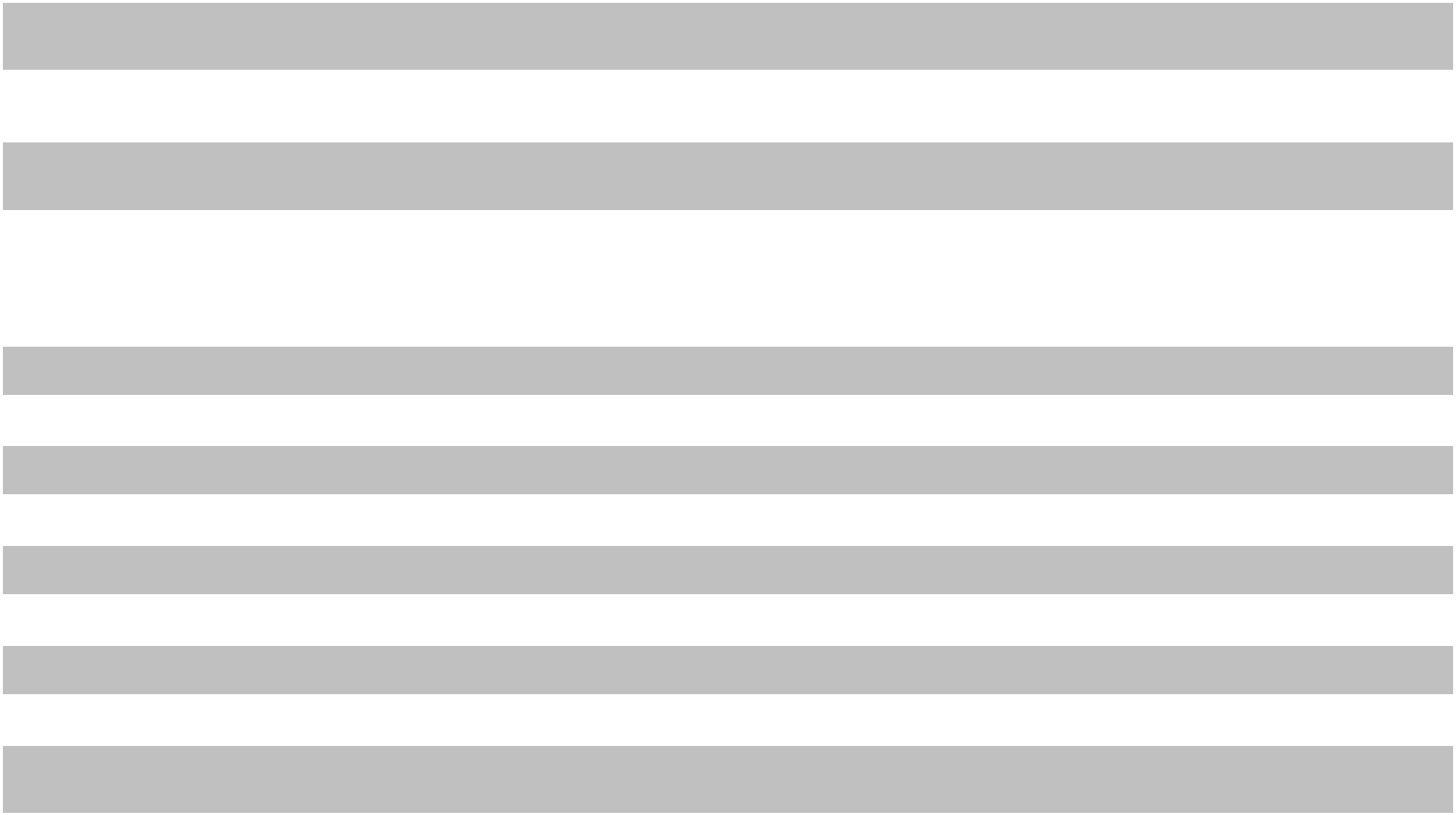
6:0@,%/">(&23(M,#-:0@,%/">5(Q0$&"/@02/(#8

6BCDRPECBHD	^&$,3(&23(=-#2#@,-(;>2/:0%,%(#8(A0\/(J020"&/,#2(`0"+,-,30%(V,&(6&"+#2(Q,#\,30BQ,"0-/03(6B`(M#23(T*2-/,#2&',g&/,#2	A#	IRH5HHH(	IH(	IRH5HHH(	IRH5HHH(
6BCDFHCOBHG	Q0V0'#$@02/(#8(2#V0'(&$$"#&-:0%(8#"(%/0"#0'0-/,V0(-#2%/"*-/,#2(#8(7'>-#%,3,-(',2Z&70%	A#	IDHO5NGF(	IPP5HHE(	IGHE5NNG(	IGHE5NNG(
6BCDFHFRBHD	A#V0'(@0/:#3%(&23(.0-:2#'#7,0%(8#"(;>2/:0%,%(#8(M,#@03,-&''>(^0'0V&2/(6&"+#:>3"&/0%	A#	ICFP5EHD(	IOH5FHO(	IDRH5GCH(	IDRH5GCH(
6BCDFCGEBHD	;>2/:0%,%(#8(2&/*"&'($"#3*-/(%-&88#'3(%0'0-/,V0'>(&-/,V0(&7&,2%/(3#"@&2/(K>-#+&-/0",*@(/*+0"-*'#%,%	A#	ICNP5RHH(	IGE5CDR(	ICOF5FDR(	ICOF5FDR(
ABCDFGENBHCB1C	Q,V0"%0(@0@+"&20(&88,2,/,0%(#8(J>(@0@+0"%(3080"02/,&''>(@#3*'&/0(/:0(JM>(0880-/#"%(&23(-0''(+0:&V,#"%	A#	IGHH5HHH(	ICNC5GDG(	INNC5GDG(	INNC5GDG(



6:0@,%/">(&23(M,#-:0@,%/">5(Q0$&"/@02/(#8

^BCDDHEEBCH IO5HHH(

A&/*"&'(;-,02-0%(h(K&/:0@&/,-%5(6#''070(#8

2#/

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=2V,"#2@02/&'(;-,02-0%5(Q0$&"/@02/(#8

6BCDROHCBHG	=\&@,2&/,#2(#8(T&-/#"%($28'*02-,27(4&Z0(?:,/08,%:(^0-"*,/@02/(,2(/:0(Q0/"#,/(^,V0"(&23(?0%/0"2(4&Z0(=",0	A#	IOD5ODO(	ICN5NPR(	IPE5GDG(	IPE5GDG(
6BCDFNGPBHD	L070/&/,#2(;*"V0>,27(,2(;*$$#"/(#8(J"&%%(6&"$(;$&92,27(!#/02/,&'(,2(/:0(;&23*%Z>(^,V0"(M&%,2	A#	IPC5PHC(	ICF5HOG(	ICHE5PON(	ICHE5PON(
6BCDFPPRBHD	$-:/:>#$'&2Z/#2(6#@@*2,/>(=-#'#7>(&23(Q,%/",+*/,#2(,2(4&Z0(;/<(6'&,"0	A#	ICPC5NOC(	IGG5RHP(	IDDN5PPH(	IDDN5PPH(
ABCDFODEBHC	W%0(#8(0\,%/,27(8,%:0">(&%%0%%@02/(3&/&(/#(30/0"@,20(30/0-/,#2($"#+&+,',/>(#8("&"0(&23(209'>(,2/"#3*-03(2#2,23,702#*%(%$0-,0%(,2(4&Z0(=",0	A#	IER5CGN(	IE5RCG(	IOD5FNE(	IOD5FNE(
ABCDECRDBHC	M,#@#2,/#",27(#8($"#2(Q08,-,02->(&23(.#\,-,/>(,2(Y"2&@02/&'(!'&2/%	A#	IFC5FFN(	IF5CFF(	IFE5OGH(	IFE5OGH(
ABCDECERBHC	133"0%%,27(=2V,"#2@02/&'(6:&''0270%(&23(!"#$#%,27(;*%/&,2&+'0(;#'*/,#2%(&/(/:0(4&Z0(=",0(4&23B4&Z0($2/0"8&-0	A#	IGGH5DDR(	ICF5GCC(	IGNF5RGF(	ICHG5PFC(

A&/*"&'(; -,02-0%(h(K&/:0@&/,-%5(6#''070(#8

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=2V,"#2@02/&'(; -,02-0%5(Q0$&"/@02/(#8

ABCDEDDHBHC	**J"&>(L,"0#(Q0@#7"&$:>**	**A#**	**ICN5DOF(**	**IG5ECN(**	**ICO5HHH(**	**ICO5HHH(**
ABCDEGPCBHC						**ICOR5RFD(**

A&/*"&'(;-,02-0%(h(K&/:0@&/,-%5(6#''070(#8

2#/

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!:>%,-%(&23(1%/"#2#@>5(Q0$&"/@02/(#8						
6BCDFGGRBHCB;D	$28"&"03(1+*23&2-0%(&23(/:0(6:0@,-&'(=2",-:@02/(#8(/:0(W2,V0"%0BBCEB1Q1!CEBHDHR	A#	IEH5PGP(	IGG5FPR(	ICHN5FGN(	ICHN5FGN(
6BCDFGNHBHCB;C	1(;$,/g0"5(`0"%-:0'(&23(?$;=(602%*%(#8(!"#/#%/&"%(9,/:,2(RHH($-(#8(/:0(;*2	A#	IRP5FRF(	IDO5GGE(	IOE5PPG(	IOE5PPG(
6BCDFFPHBHD	K#2#',/:,-&''>($2/07"&/03(.:,2BT,'@a;,',-#2(.&230@(!:#/#0'0-/"#30%(8#"(`,7:(=88,-,02->(&23(;/&+'0(!:#/#0'0-/"#-:0@,-&'(?&/0"(;$',//,27	A#	INH5FEO(	ICP5GDD(	IFH5HHH(	IFH5HHH(
ABCDFCFPBHC	WL(4&+#"&/#">(K0&%*"0@02/%(#8(Y%-,''&/#"(;/"027/:%5(^&3,&/,V0(4,80/,@0%5(&23(Q,%%#-,&/,#2(!"#3*-/%(#8(6`5(6D5(&23(6;	A#	IE5OOP(	IG5ENE(	ICC5FGF(	ICC5FGF(
ABCDFGNHBHC	1(;$,/g0"5(`0"%-:0'(&23(?$;=(602%*%(#8(!"#/#%/&"%(9,/:,2(RHH($-(#8(/:0(;*2	A#	IFC5DHE(	IDP5HEG(	IPH5DOH(	IPH5DOH(
ABCDFECHBHC	40&3(8"00(#"7&2,-B,2#"7&2,-(:&',30($0"#V%Z,/0(80""#0'0-/",-%(9,/:('&"70($,0g#0'0-/",-("0%$#2%0%	A#	IGHC5HHG(	ICNO5PPF(	INNP5PPP(	INNP5PPP(
ABCDFPROBHC	602/0"(8#"(`>+",3(Y"7&2,-B$2#"7&2,-(;0@,-#23*-/#"%(8#"(=20"7>( b6`Y$;=U	A#	IFF5OGD(	IGG5HOD(	IPP5PCN(	IPP5PCN(

A&/*"&'(;-,02-0%(h(K&/:0@&/,-%5(6#''070(#8

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!:>%,-%(&23(1%/"#2#@>5(Q0$&"/@02/(#8

ABCDEHRFBHC	COB1Q1!COBHDHHr(Y",#2(.:0(T,2&'(=$#-:	A#	INE5DFD(	IDG5GPN(	IEH5FRF(	IEH5FRF(
ABCDEHRFBHCBSHC	Y",#2X(.:0(T,2&'(=$#-:	A#	IFC5NFF(	IP5COP(	IEH5FRR(	IEH5FRR(
ABCDEHPRBHC	T,'@(Q0$#%,/,#2(&23(Y$/,-&'(!"#$0"/>(6:&"&-/0",g&/,#2	A#	IO5HCH(	IG5PFR(	ICC5PER(	ICC5PER(
ABCDEHPFBHC	Q=.=6.SYA(YT(AYAB.`=^K14(kB^1e(=KS;;SYA(T^YK(J1KK1D(L=4Y^WK	A#	ICF5EDD(	IO5DEO(	IDR5HHH(	IDR5HHH(
ABCDECCDBHC	W'/"&B`,7:(=88,-,02->(&23(;/&+'0(1''B!0"#V%Z,/0(.&230@(;#'&"(60''%	A#	IGEH5EPN(	ICOG5RNG(	IRRN5GGE(	IRRN5GGE(
ABCDEDHFBHC	`,7:(;$0-,8,-(!#90"(K*'/,B_*2-/,#2.:,2(T,'@(!L	A#	IC5EGD5ORR(	IORE5EFG(	ID5RPH5FCO(	ID5RPH5FCO(

K03,-,2&'(&23(M,#'#7,-&'(6 :0@,%/">5(Q0$&"/@02/(#8

6BCDRPNRBHD	6 :##%0(Y :,#(T,"%/(8#"(=\ -0''02-0(,2(/ :0(! :&"@&-0*/,-&'(; -,02-0%(b6YT=! ;U		A#(Y :,R739		

! : &"@&-#'#7>5(Q0$&"/@02/(#8

AßCDEHREßHC	IGH5DRH(

! *+',-(;&80/>

2#/

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W2,V0"%,/>(!#',-0

ABCDEHOFBHC	=3*-&/,27(&(6#@@*2,/>(?,/:,2(&(6#@@*2,/>X(K02/&'(`0&'/:(T,"%/(1,3(&23(J"002(i#20(."&,2,27(&/(/:0(W2,V0"%,/>(#8(.#'03#(&23(M0>#23	A#	ICCR5EGN(	IP5DRP(	ICDN5PPG(	ICD5NPP(

W2,V0"%,/>(!#',-0U	H<CH	ICD5NPP(
!*+',-(;&80/>U	H<CH	ICD5NPP(

^0%0&"-:(h(;$#2%#"03(!"#7"&@%(K6

2#/

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Y88,-0(#8(^0%0&"-:(h(Q0V0'#$@02/

6BCDFNGOBHD	6:##%0(Y:,#(T,"%/X(M*,'3,27(Y:,#c%(;*%/&,2&+'0(=20"7>(T*/*"0	A#	IDHC5RHH(	IH(	IDHC5RHH(	IDHC5RHH(

Y88,-0(#8(^0%0&"-:(h(Q0V0'#$@02/U	C<HH	IDHC5RHH(

^0%0&"-:(h(;$#2%#"03(!"#7"&@%

6BCDRFPOBHG	SB6#"$(A#30X(1-/,V&/,27(/:0(K,390%/(SB6#"$%(A0/9#"Z	A#	IDD5EEN(	IF5ECO(	IDP5NPD(	IDP5NPD(
			IDCDRFPENFG			

^0%0&"- :(h(;$#2%#"03(!"#7"&@%(K6

2#/

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^0%0&"- :(h(;$#2%#"03(!"#7"&@%

6BCDFNNGBHD	=2/"0$"020*",&'(;0"V,-0%(!"#V,30"(!"#7"&@	A#	IDFH5DOH(	IOH5POD(	IGNC5DFD(	IGNC5DFD(

Q,V,%,#2(#8(;/*302/(188&,"%

6BCDFCPNBHD	IDER5CRR(

W2,V0"%,/>(6#''070

2#/

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Q0&2(B(W2,V0"%,/>(6#''070

ABCDGDRGBHC	K,',/&">(;0"V,-0(602/0"(;/*302/(;*$$#"/	e0%	IE5OFH(	IH(	IE5OFH(	IE5OFH(

Q0&2(B(W2,V0"%,/>(6#''070U	C<HH	IE5OFH(
W2,V0"%,/>(6#''070U	C<HH	IE5OFH(

W.(K03,-&'(602/0"

2#/

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Y!B6',2,-B6&"3,#'#7>

6BCDNEHOBHN	W;BM&%035(Y+%0"V&/,#2&'5(Q"*7(^07,%/">(#8(Y$%*@,/p(bK&-,/02/&2U(A09(W%0"%(,2(6',2,-&'(!"&-/,-0	A#	IRGH(	ICEH(	IEHH(	IGRH(