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entry:
%call.i = call i32 @rand() #7
%rem.i = srem i32 %call.i, 5
%call.i9 = call i32 @rand() #7
%rem.i10 = srem i32 %call.i9, 5
%add = add nsw i32 %rem.i10, %rem.i
%call3 = call nonnull align 8 dereferenceable(8)
... %"class.std::basic_ostream"* @ ZNSolsEi(%"class.std::basic_ostream"* nonnull
... align 8 dereferenceable(8) @ _ZSt4cout, i32 %add)
%i = bitcast %"class.std::basic_ostream"* %call3 to i8**
%vtable.i = load i8*, i8** %i, align 8, !tbaa !3
%vbase.offset.ptr.i = getelementptr i8, i8* %vtable.i, i64 -24
%i1 = bitcast i8* %vbase.offset.ptr.i to i64*
%vbase.offset.i = load i64, i64* %i1, align 8
%i2 = bitcast %"class.std::basic_ostream"* %call3 to i8*
%_M_ctype.i.idx.i = add nsw i64 %vbase.offset.i, 240
%_M_ctype.i.i = getelementptr inbounds i8, i8* %i2, i64 %_M_ctype.i.idx.i
%i3 = bitcast i8* %_M_ctype.i.i to %"class.std::ctype"***
%i4 = load %"class.std::ctype"*, %"class.std::ctype"*** %i3, align 8, !tbaa !6
%tobool.not.i.i.i = icmp eq %"class.std::ctype"* %i4, null
br i1 %tobool.not.i.i.i, label %if.then.i.i.i, label
... %_ZSt13_check_facetISt5ctypeIcEERKT_PS3_.exit.i.i

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if.then.i.i.i:
call void @ _ZSt16__throw_bad_castv() #8
unreachable

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_ZSt13_check_facetISt5ctypeIcEERKT_PS3_.exit.i.i:
%_M_widen_ok.i.i.i = getelementptr inbounds %"class.std::ctype",
... %"class.std::ctype"* %i4, i64 0, i32 8
%i5 = load i8, i8* %_M_widen_ok.i.i.i, align 8, !tbaa !11
%tobool.not.i3.i.i = icmp eq i8 %i5, 0
br i1 %tobool.not.i3.i.i, label %if.end.i.i.i, label %if.then.i4.i.i

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if.end.i.i.i:
call void @ _ZNKSt5ctypeIcE13_M_widen_initEv(%"class.std::ctype"* nonnull
... align 8 dereferenceable(570) %i4)
%i7 = bitcast %"class.std::ctype"* %i4 to i8 (%"class.std::ctype"*, i8)***
%vtable.i.i.i = load i8 (%"class.std::ctype"*, i8)** , i8
... (%"class.std::ctype"*, i8)*** %i7, align 8, !tbaa !3
%vfn.i.i.i = getelementptr inbounds i8 (%"class.std::ctype"*, i8)*, i8
... (%"class.std::ctype"*, i8)** %vtable.i.i.i, i64 6
%i8 = load i8 (%"class.std::ctype"*, i8)*, i8 (%"class.std::ctype"*, i8)**
... %vfn.i.i.i, align 8
%call.i.i.i = call signext i8 %i8(%"class.std::ctype"* nonnull align 8
... dereferenceable(570) %i4, i8 signext 10)
br label %_ZSt4endlIcSt11char_traitsIcEERSt13basic_ostreamIT_T0_ES6_.exit

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if.then.i4.i.i:
%arrayidx.i.i.i = getelementptr inbounds %"class.std::ctype",
... %"class.std::ctype"* %i4, i64 0, i32 9, i64 10
%i6 = load i8, i8* %arrayidx.i.i.i, align 1, !tbaa !13
br label %_ZSt4endlIcSt11char_traitsIcEERSt13basic_ostreamIT_T0_ES6_.exit

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_ZSt4endlIcSt11char_traitsIcEERSt13basic_ostreamIT_T0_ES6_.exit:
%retval.0.i.i.i = phi i8 [ %i6, %if.then.i4.i.i ], [ %call.i.i.i,
... %if.end.i.i.i ]
%call1.i = call nonnull align 8 dereferenceable(8)
... %"class.std::basic_ostream"* @ ZNSo3putcEc(%"class.std::basic_ostream"*
... nonnull align 8 dereferenceable(8) %call3, i8 signext %retval.0.i.i.i)
%call.i.i = call nonnull align 8 dereferenceable(8)
... %"class.std::basic_ostream"* @ ZNSo5flushEv(%"class.std::basic_ostream"*
... nonnull align 8 dereferenceable(8) %call1.i)
ret i32 0

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CFG for 'main' function