```
entry:
             %call.i = tail call i32 @rand() #7
              %rem.i = srem i32 %call.i, 5
              %call.i7 = tail call i32 @rand() #7
              %rem.i8 = srem i32 %call.i7, 5
              %add = add nsw i32 %rem.i8, %rem.i
              %call3 = tail call noundef nonnull align 8 dereferenceable(8) ptr
              ... @ ZNSolsEi(ptr noundef nonnull align 8 dereferenceable(8) @ ZSt4cout, i32
              ... noundef %add)
              %vtable.i = load ptr, ptr %call3, align 8, !tbaa !5
              %vbase.offset.ptr.i = getelementptr i8, ptr %vtable.i, i64 -24
              %vbase.offset.i = load i64, ptr %vbase.offset.ptr.i, align 8
              %add.ptr.i = getelementptr inbounds i8, ptr %call3, i64 %vbase.offset.i
              % M ctype.i.i = getelementptr inbounds i8, ptr %add.ptr.i, i64 240
              \%\overline{i} = load ptr, ptr % M ctype.i.i, align 8, !tbaa !8
              %tobool.not.i.i.i = icmp eq ptr %i, null
              br i1 %tobool.not.i.i.i, label %if.then.i.i.i, label
              ... % ZSt13 check facetISt5ctypeIcEERKT PS3 .exit.i.i
                                                 ZSt13 check facetISt5ctypeIcEERKT PS3 .exit.i.i:
                                                 % M widen ok.i.i.i = getelementptr inbounds i8, ptr %i, i64 56
if.then.i.i.i:
                                                 %il = load i8, ptr % M widen ok.i.i.i, align 8, !tbaa !20
tail call void @ ZSt16 throw bad castv() #8
                                                 %tobool.not.i3.i.i = icmp eq i8 %i1, 0
unreachable
                                                  br i1 %tobool.not.i3.i.i, label %if.end.i.i.i, label %if.then.i4.i.i
     if.end.i.i.i:
      tail call void @ ZNKSt5ctypeIcE13 M widen initEv(ptr noundef nonnull align
      ... 8 dereferenceable(570) %i)
                                                                                      if.then.i4.i.i:
      %vtable.i.i.i = load ptr, ptr %i, align 8, !tbaa !5
                                                                                      %arrayidx.i.i.i = getelementptr inbounds i8, ptr %i, i64 67
      %vfn.i.i.i = getelementptr inbounds i8, ptr %vtable.i.i.i, i64 48
                                                                                       %i2 = load i8, ptr %arrayidx.i.i.i, align 1, !tbaa !23
      %i3 = load ptr, ptr %vfn.i.i.i, align 8
                                                                                       br label % ZSt4endlIcSt11char_traitsIcEERSt13basic_ostreamIT_T0_ES6_.exit
      %call.i.i.i = tail call noundef signext i8 %i3(ptr noundef nonnull align 8
      ... dereferenceable(570) %i, i8 noundef signext 10)
      br label % ZSt4endlIcSt11char traitsIcEERSt13basic ostreamIT T0 ES6 .exit
                                              ZSt4endlIcSt11char traitsIcEERSt13basic ostreamIT T0 ES6 .exit:
                                             %retval.0.i.i.i = phi i8 [ %i2, %if.then.i4.i.i ], [ %call.i.i.i,
                                              ... %if.end.i.i.i l
                                              %call1.i = tail call noundef nonnull align 8 dereferenceable(8) ptr
                                              ... @ ZNSo3putEc(ptr noundef nonnull align 8 dereferenceable(8) %call3, i8
                                              ... noundef signext %retval.0.i.i.i)
                                              %call.i.i = tail call noundef nonnull align 8 dereferenceable(8) ptr
                                              ... @ ZNSo5flushEv(ptr noundef nonnull align 8 dereferenceable(8) %call1.i)
                                              ret \overline{i}32 0
```

CFG for 'main' function