Universidad Nacional Autónoma de México

FACULTAD DE INGENIERIA

ESTUDIO DEL EFECTO CORONA EN LINEAS DE EXTRA ALTA TENSION

TESIS PROFESIONAL

Que para obtener el Título de

INGENIERO MECANICO ELECTRICISTA

P r e s e n t a

JOSE AGUSTIN GARCIA DE HARO

Director de Tesis:

Ing. Daniel Barrios Morales Frias

México, D. F. **1984**

" EFECTO CORONA EN LINEAS DE

EXTRA ALTA TENSION "

1.0 CONCEPTOS GENERALES

1.1 IONIZACION

De acuerdo con la teoría moderna que nos explica la extructura atómica de la materia, cada átomo está compuesto de un núcleo, alrededor del cual giran los electrones: Este átomo tiene ciertas características eléctricas que nos muestra que; el núcleo está cargado positivamente y los electrones cargados negativamente.

Generalmente el átomo no manifiesta esta propiedad eléctrica y se dice que es eléctricamente neutro, sin embargo, esto no significa ausencia de energía eléctrica en él mismo, sino que la carga positiva es igual a la carga negativa, dando lugar a un equilibrio.

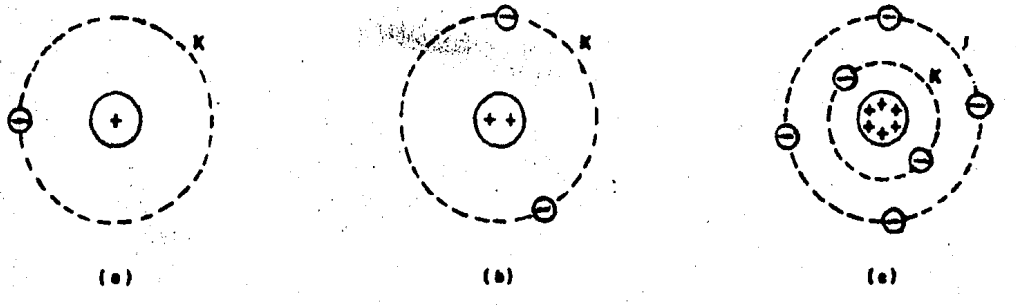


Fig. 1-A Esquema de la estructura de un átomo.
(a) átomo de Hidrógeno, (b) átomo de Helio,
(c) átomo de Carbono.

Decimos que un átomo eléctricamente neutro manifiesta una carga negativa o positiva cuando pierde o gana uno ó varios electrones; el átomo entonces, se convierte en un ION. Y al proceso de transformación de un átomo en un ION se le llama ionización.

Ahora bien, si por algún medio un cuerpo comienza a ceder electrones, la carga positiva del mismo se manifiesta, por lo que decimos que el cuerpo se carga o ioniza positivamente, pero si el cuerpo recibe electrones dando lugar a un exceso de estos, el cuerpo se carga o ioniza negativamente. A manera de ejemplo indicamos éste fenómeno, en forma tabular, como sigue:

ATOMO	No. de electrones carga (-)	No. de protones carga (+)	carga átomo	propiedad eléctrica
H	1	1		neutro
He	2	2		"
Li	4	3	-1	negativo
Be	5	4	-1	"
C	5	6	1	positivo

Fig. 1-B Descripción de las Características Eléctricas de los Atomos de Hidrógeno, Helio, Litio, Berilio, Carbono.

1.1.1 IONIZACION EN EL AIRE.

En condiciones ideales el aire atmosférico tiene todos sus átomos neutros, pero en la realidad esto no sucede por el hecho de que un pequeño número de electrones y iones están siempre presentes en el -

aire debido a los rayos cósmicos, rayos ultravioletas del sol, radioactividad del suelo, calentamiento de algunos materiales a temperaturas muy elevadas (estos desprenden electrones de sus átomos y ionizan el aire), descargas eléctricas de la atmósfera, etc. los cuales contribuyen para que el aire se convierta en un medio semiconductor.

1.1.2 IONIZACION EN LOS GASES

El paso de la corriente eléctrica a través de los gases presenta una similitud con el fenómeno de la electrólisis, razón por la cual se atribuye a la presencia de iones que pueden ser de ambos signos, provenientes de la acción de diversos agentes externos ionizantes.

En si los gases constituyen un excelente aislador eléctrico como se ha demostrado experimentalmente. Sin embargo, como se ha mencionado, los gases bajo la acción de agentes externos tales como determinadas radiaciones (rayos luminosos, rayos x, rayos ultravioletas, rayos catódicos, rayos procedentes de los cuerpos radioactivos), presencia de cuerpos incandescentes, de altas temperaturas, reacciones químicas, burbujeo en el seno de ciertos líquidos, etc. se hacen conductores y adquieren la propiedad de descargar las partículas electrizadas.

1.1.3 IONIZACION EN EL VACIO.

En el vacio no existen portadores de carga, en estas condiciones es necesario proporcionar estos --

portadores para que pueda existir ionización, hay varios métodos para emitir portadores tales como: El método de emisión termoiónica el cual consiste en un calentamiento del cátodo que suministra energía a los átomos de dicho cátodo aumentandoles su energía convirtiendolos en electrones libres que - son atraidos por el ánodo que esta polarizado positivamente (caso de las válvulas termoiónicas o -- tubos de vacio). Este fenómeno se sucede debido a la presencia de un Campo Eléctrico presente entre- dos electrodos en el vacio que estan polarizados - uno negativamente (cátodo) y otro positivamente- (ánodo).

1.1.4 CAMPO MAGNETICO.

Otro método es el de la emisión por efecto de campo (Campo Magnético) el cual aumenta tambien la- energía de los electrones produciendoles un movi - miento circular, que se aprovecha entre otros dispositivos en el Espectrógrafo de Masas, en los Ciclotrones, Betatrón, etc.

1.2 CAMPO ELECTRICO CONSTANTE (Corriente Directa C. D.)

Puede producirse un Campo Eléctrico constante, por ejemplo, entre dos superficies planas paralelas y separadas una distancia (s) como se muestra en- la siguiente figura, Fig. 1-C

Si se aplica una tensión (V) entre las placas se establecera un Campo Eléctrico uniforme y normal a las placas A y B.

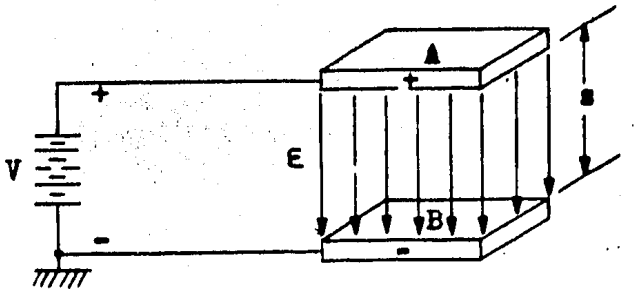


Fig. 1-C Campo Eléctrico constante originado por un potencial (V) constante (Corriente Directa)

1.3 CAMPO ELECTRICO VARIABLE (Corriente Alterna C. A.)

Puede producirse un Campo Eléctrico variable entre -- dos superficies planas paralelas y separadas una distancia (s) como se muestra en la figura siguiente:

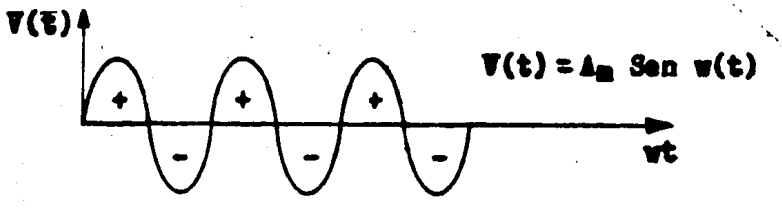


Fig. 1-D Potencial de C. A. que origina el Campo Eléctrico Variable.

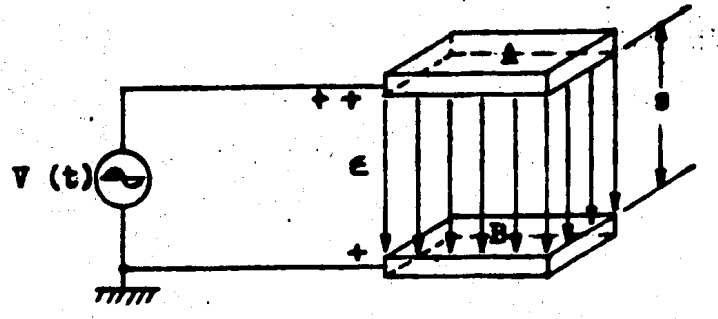


Fig. 1-E Campo Eléctrico Variable originado por un potencial de C. A. (semiciclo positivo)

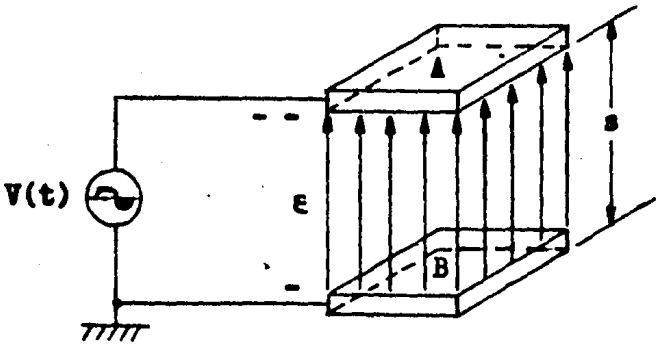


Fig. 1-F Campo Eléctrico Variable originado por un potencial de C. A. (semiciclo negativo)

Si se aplica una tensión $V(t) = A_m$ Sen w(t) entre dos placas ver figs. 1-D, 1-E y 1-F se establecerá un campo eléctrico variable, alterno y normal a las placas A y B, este campo variable cambiará de orientación alternadamente de acuerdo a la polaridad de los electrodos o placas y con una frecuencia en función de la correspondiente a la de la fuente de C. A.

1.4 INTENSIDAD DE CAMPO ELECTRICO

El Campo Eléctrico posee, en cada uno de sus puntos, una propiedad vectorial conocida como intensidad de campo eléctrico y que se representa con la letra (E) que le permite producir una fuerza sobre cualquier carga eléctrica.

La representación matemática del campo eléctrico en función de la fuerza y la carga está dada por la siguiente expresión.

$$E = \frac{F}{q} \text{ ..... } \left[\frac{\text{Newtons}}{\text{Coulomb}}\right] \text{ ... } (1.1)$$

La intensidad del campo eléctrico (E) se mide por-

el gradiente de potencial, que es la variación del potencial con respecto a la distancia y sus expresiones matématicas son las siguientes:

$$E \equiv -\frac{dV}{dS} \quad \cdots\cdots\cdots\cdots (1.2)$$

$$-\frac{dV}{dS} = \nabla S \quad \cdots\cdots\cdots\cdots (1.3)$$

$$\nabla S = \frac{\partial V}{\partial x} i + \frac{\partial V}{\partial y} j + \frac{\partial V}{\partial z} k \cdot (1.4)$$

$$E = -\frac{\partial V}{\partial x} i - \frac{\partial V}{\partial y} j - \frac{\partial V}{\partial z} k \cdot (1.5)$$

El campo eléctrico que nos interesa es aquél que está de acuerdo con el criterio de superficies equipotenciales, ya que nuestro estudio estará enfocado al campo eléctrico entre conductores, los cuales consideraremos perfectamente circulares. Una superficie equipotencial es aquella que pasa por todos los puntos que están a un mismo potencial.como en la siguiente figura.

Fig. 1-G Superficies equipotenciales
(a) Campo eléctrico con lineas de fuerza entrantes.
(b) Campo eléctrico con lineas de fuerza salientes.

1.5 TENSIONES NORMALIZADAS

Tomando como referencia la publicación (IEEE TRANSMISSION LINES "SPECTRUM" 44,1969) los rangos de las extra altas tensiones utilizadas en la transmisión de energía eléctrica son los siguientes:

400 Kv.

500 Kv.

750 Kv.

1000 Kv.

1300 Kv.

1500 Kv.

Por lo que nuestro estudio se limitará a estos rangos de tensiones.

2.0 EFECTO CORONA

2.1 ¿QUE ES EL EFECTO CORONA? ; El efecto corona es un fenómeno extremadamente complejo y el cual - se define como la ionización del aire que rodea al conductor ó conductores cuando éstos se en - cuentran energizados.

Dicho efecto se manifiesta de una manera audi - ble como un zumbido y visualmente como un res - plandor fosforesente y violaceo.

2.2 APARICION DEL EFECTO CORONA

En general cuando se somete un conductor de una línea de transmisión a una alta tensión, el cam po eléctrico en la superficie de ese conductor- aparece y se puede llegar a un punto en el cual se sobrepasa el gradiente crítico disruptivo -- del aire esto quiere decir, la intensidad de -- campo eléctrico en que las propiedades dieléctri cas del aire se pierden y por lo tanto éste em- piesa a comportarse como un conductor de parti- culas ionizadas.

(Las normas ASA definen la rigidez dieléctrica- como el máximo gradiente de potencial que un - aislante es capaz de soportar sin que se produz ca una descarga disruptiva, en el cual la des - carga disruptiva no es más que una corriente - eléctrica que se presenta en los dieléctricos - que están sometidos a la acción de un campo eléc

trico, debido a que las fuerzas coercitivas de los átomos del dieléctrico, son menores que las fuerzas que tratan de mover los electrones en dirección -- opuesta a la intensidad del campo.)

A continuación enumeramos algunos valores de rigidéz dieléctrica obtenidos experimentalmente para - algunas substancias (ver tabla 2-A)

SUBSTANCIA	RIGIDEZ DIELECTRICA KV/cm
Aire	30
Aceite	300
Baquelita	250
Caucho	210
Ebonita	200
Mica	2000
Papel	400
Vidrio	300
Parafina	400
Porcelana	300

Fig. 2-A Rigidez dieléctrica de algunas substancias.

2.3 MECANISMO DEL EFECTO CORONA EN CORRIENTE DIRECTA

El mecanismo del Efecto Corona en el conductor con polaridad positiva consiste en la atracción de electrones hacia la superficie del conductor y repul - sión de cargas positivas.

Muchos electrones, antes de llegar a la superficie del conductor pueden ser capturados por las cargas o iónes positivos formando átomos o bien pueden --

producir coliciones en átomos desprendiendo a su vez electrones.

En el conductor polarizado negativamente sucede - lo contrario es decir son atraidas las cargas o - iónes positivos hacia la superficie del conductor y repelidos los electrones.

Durante el movimiento de las partículas se producirán también coliciones similares a las del conductor polarizado positivamente como se indicó -- antes. Este flujo y reflujo de cargas positivas y negativas puede ser tan intenso entre los dos conductores que pueden hacer conductor el aire propiciando un arco eléctrico.

2.4 MECANISMO DEL EFECTO CORONA EN CORRIENTE ALTERNA

El mecanismo del Efecto Corona en corriente alterna es similar al mecanismo en corriente directa - haciendo notar que la polaridad en el conductor - en cada punto del mismo está variando instantaneamente de cero máximo positivo cero máximo negativo y cero de acuerdo con la onda senoidal de la - corriente alterna, como consecuencia, el flujo y reflujo de iónes y electrones se sucedera en cada punto del conductor, dependiendo de que en un instante cado dicho punto este polarizado positiva o negativamente aumentando o disminuyendo la Ionización según el valor instantaneo del voltaje con - el cual está energizado en un momento considerado

El conocimiento que se tiene hasta el momento del Efecto Corona en las líneas de transmisión es aún incompleto siendo objeto de estudios y experimentos por parte de numerosos investigadores, probablemente los mayores adelantos en el conocimiento del Efecto Corona son debidos a los trabajos de - F. W. PEEK Jr. el cual realizó un sin número de - experimentos relacionados con las altas tensiones en la Cia. General Electric.

Ninguna de las expresiones que actualmente se utilizan para el cálculo de la tensión crítica disruptiva, gradiente crítico disruptivo, perdidas - por efecto corona, intensidad de radio interferencia, etc. son exactas y por lo tanto solo pueden esperarse resultados aproximados, siendo aconsejable efectuar pruebas al tratar de adoptar nuevas- tensiones (extra altas) en líneas de transmisión.

2.5 IMPORTANCIA DEL ESTUDIO DEL EFECTO CORONA.

La importancia del estudio de dicho efecto en altas tensiones radica en lo siguiente:

a).- El Efecto Corona en líneas de transmisión -- representa una pérdida continua de potencia, que en lineas largas y de extra alta tensión puede llegar a valores substanciales por lo- que deberá mantenerse tan bajo como se justifique económicamente.

b).- Al producirse Efecto Corona en líneas de trans

misión o subestaciones se forman substancias químicas tales como Oxidos de Nitrógeno, en- presencia de humedad Acido Nítrico y Ozono,- dichas substancias causan un deterioro en -- los materiales aislantes por efecto químico- y si llega a presentarse chisporroteo o efl vios la destrucción de la superficie del con ductor es todavía mayor.

c).- La ionización propicia los eflúvios (aunque no sean visibles) los cuales producen ondas electromagnéticas amortiguadas de alta fre - cuencia que se disipan transversalmente al - conductor provocando perturbaciones de Radio y Televisión al rededor (fenómeno de Radio- Interferencia).

2.6 ASPECTO DEL EFECTO CORONA EN CABLES ENERGIZADOS - CON CORRIENTE DIRECTA.

El conductor que se polariza positivamente, al llegar a cierto valor de tensión aplica-- da, presenta la apariencia de un revestimien to uniforme de luz violacea sobre toda la -- superficie de dicho conductor, tanto más in- tensa, cuanto más elevada es la tensión. En- cambio el conductor que se polariza negati - vamente presenta efluvios en forma de pena - chos de color rojizo espaciados uniformemen- te, cuya separación entre penacho y penacho- se va reduciendo a medida que se aumenta la- tensión.

2.7 ASPECTO DEL EFECTO CORONA EN CABLES ENERGIZADOS CON CORRIENTE ALTERNA.

El Efecto Corona en corriente alterna se manifiesta en forma similar al de corriente directa solo que dependerá de la polaridad del medio ciclo de la alternación para que se manifieste en una u otra forma.

Esto puede ser observado mediante un Estroboscopio. La intensidad del Efecto Corona se incrementará cuando la tensión aplicada a la línea también se incremente.

2.8 FACTORES QUE CONTRIBUYEN EN LA APARICION DEL EFECTO CORONA.

Para analizar los factores que contribuyen a la aparición del Efecto Corona, estableceremos el significado de algunos términos o conceptos:

Tensión Crítica Disruptiva.- El valor eficaz de la tensión al neutro para el cual se inicia el Efecto Corona en la superficie de un conductor (o conjunto de conductores) se llama tensión crítica disruptiva.

Dichos factores son:

a).- Radio del conductor (r)

b).- Separación entre conductores de una misma o diferente fase. (R M G y D M G respectivamente)

c).- Forma y superficie del conductor (m_1 y m_2)

d).- Temperatura (t) y presión barométrica (b)(que

nos da la densidad del aire δ)

e).- Altura media de los conductores sobre el nivel del piso (H M G)

A partir de la ecuación obtenida por J. W. Peek que tomó en cuenta todos éstos factores, como lo mencionaremos posteriormente, se han seguido haciendo estudios mas profundos sobre el tema, que han logrado obtener expresiones matemáticas mas exáctas cuyo refinamiento a permitido lograr resultados mas apegados a la realidad sobre todo al presentarse la necesidad de utilizar muy altas tensiónes.

Por tal razón, nuestro breve estudio se circunscribirá a la ecuación 2-34 que veremos mas adelante.

2.8.1 RADIO DEL CONDUCTOR (r)

El radio del conductor puede ser real o ficticio (tambien equivalente) y sabemos que el Voltaje Crítico Disruptivo es función directa de dicho radio.

Al efectuar el cálculo de regulación en una línea se obtiene una área determinada a la que le corresponde naturalmente un radio que le llamaremos real y que económicamente es el más adecuado. Este radio , en lineas de extra altas tensiones resulta insuficiente para limitar a valores aceptables el Voltaje Crítico Disruptivo. Se requiere aumentar considerablemente el radio del mismo conductor lo cual daría conductores económicamente inadmisibles. Para resolver éste problema, se ha encontrado que pode -

mos instalar dos o más conductores por fase, dis - puestos simétricamente, cuya area total será la -- misma del conductor que nos da la regulación óptima antes obtenida y logrando con ello un conductor ficticio cuya superficie ocuparía un cilindro que- pasará por el centro de los dos o mas conductores- seleccionados nuevamente y cuyo radio (R) sería- el de dicho cilindro al que le llamaremos RADIO FICTICIO O EQUIVALENTE.

2.8.2 SEPARACION ENTRE CONDUCTORES (D M G)

Un aumento de la distancia entre fases tambien aumenta la tensión crítica disruptiva, pero únicamente en proporción al logaritmo decimal de la distancia media geométrica entre fases, por lo tanto la- separación de las fases influye en una mínima proporción en la aparición del efecto corona.

2.8.3 FACTOR DE FORMA Y SUPERFICIE DEL CONDUCTOR (m) :

Este factor se refiere a la forma y superficie del conductor, los conductores de las líneas de transmisión estan generalmente constituidos por cables- formados por varios hilos enrrollados helicoidal - mente y por lo tanto nos presentan rugosidades en- su superficie, ademas los conductores no están perfectamente limpios y al ser manejados, especialmente durante la instalación de la línea de transmi - sión, estos se raspan en cierto grado, tales irregularidades de la superficie hacen que la intensi-

dad de campo no sea absolutamente uniforme y con tribuyan al Efecto Corona.

Para cuantificar el efecto de rugosidad (m) en los conductores se han establecido dos coeficientes, el coeficiente de forma (m_1) y el coeficiente de superficie (m_2)

Se ha encontrado que el producto de ambos nos da el factor de rugosidad (m) .

a).- Valores del coeficiente de forma m_1 :

m_1=1.0 Para una sección perfectamente circular.

m_1=0.85 Para un cable con 6 hilos en la capa exterior.

m_1=0.9 Para un cable con 12 a 30 hilos en la capa exterior.

b).- Valores del coeficiente de superficie m_2 :

m_2=0.9 Para cables limpios o envejecidos

m_2=0.8 Para cables nuevos

m_2=0.7 Para cables sucios o engrasados

m_2=0.5 a 0.3 Para cables recubiertos de gotas de agua.

En la Tabla 2-B mostramos el factor de rugosidad del cable, que nos muestra todas las combinaciones posibles de los coeficientes de forma (m_1) y coeficientes de superficie (m_2), además en la Tabla 2-C mostramos las características de los cables ACSR o ACSR/AW que actualmente se utilizan en líneas de transmisión de extra alta tensión , por resultar mas económico sin que por --

ello limite la utilización de conductores de otros materiales como el Cobre o el Cooper Well en todas sus variantes.

2.8.4 INFLUENCIA DE LA TEMPERATURA Y PRESION BAROMETRICA (FACTOR DE DENSIDAD DEL AIRE =δ).

Las condiciones atmosféricas influyen considerablemente en el valor del Gradiente Crítico Disruptivo. Este varía en proporción directa a la presión atmosférica y en proporción inversa a la temperatura. Estos dos factores se combinan para formar lo que denominamos el factor de densidad del aire (δ) y cuya forma de expresarse matemáticamente es la siguiente.

$$\delta = \frac{3.92\ b}{273\ t} \quad \text{..... (2-1)}$$

Donde:

b = Presión barométrica en cm. de columna de Mercurio.

t = Temperatura ambiente en grados centígrados.

δ = Factor de densidad del aire (adimencional).

En la Tabla 2-D se muestra la gráfica de presiones en cm. de columna de Mercurio a distintas altitudes, asi mismo en la Tabla 2-E estamos indicando el factor de densidad del aire (δ) a diferentes presiones que estan en función de la altura sobre el nivel del mar y a diferentes temperaturas, dichas tablas nos van a simplificar los cálculos cuando empleemos estos valores en las --

$m = m_1 \cdot m_2$

CARACTERISTICAS DEL CABLE.	COEFICIENTE DE FORMA (m_1)	COEFICIENTE DE SUPERFICIE (m_2)	FACTOR DE RUGOSIDAD (m)
Sección perfectamente circular, cables limpios.	1	0.9	0.9
Sección perfectamente circular, cables nuevos.	1	0.8	0.8
Sección perfectamente circular, cables sucios.	1	0.7	0.7
Sección perfectamente circular, cables recubiertos con gotas agua.	1	0.5	0.5
Cables con 6 hilos en capa exterior, cables limpios.	0.85	0.9	0.765
Cables con 6 hilos en capa exterior, cables nuevos.	0.85	0.8	0.68
Cables con 6 hilos en capa exterior, cables sucios.	0.85	0.7	0.595
Cables con 6 hilos en capa exterior, cables recubiertos con agua	0.85	0.5	0.425
Cables con 12 a 30 hilos capa exterior, cables limpios.	0.90	0.9	0.81
Cables con 12 a 30 hilos capa exterior, cables nuevos.	0.90	0.8	0.72
Cables con 12 a 30 hilos capa exterior, cables sucios.	0.90	0.7	0.63
Cables con 12 a 30 hilos capa exterior, cables recubiertos c/agua.	0.90	0.5	0.45

Tabla 2-B Indica el factor de rugosidad del cable para diferentes formas y superficies del cable.

CODIGO DE LOS CONDUCTORES A C S R	CODIGO DE LOS CONDUCTORES A C S R / A W	CALIBRE DEL CONDUCTOR	NUMERO DE HILOS	DIAMETRO EXTERIOR	RADIO EXTERIOR
PALABRA CODICE	PALABRA CODICE	MCM	AL/ACERO	mm.	cm.
FINCH	FINCH/AW	1113.5	54/19	32.84	1.642
GRACKLE	GRACKLE/AW	1192.5	54/19	33.86	1.693
PHEASANT	PHEASANT/AW	1272.0	54/19	35.10	1.755
MARTIN	MARTIN/AW	1351.5	54/19	36.17	1.8085
PLOVER	PLOVER/AW	1431.0	54/19	37.21	1.8605
PARROT	PARROT/AW	1510.5	54/19	38.25	1.9125
FALCON	FALCON/AW	1590.0	54/19	39.24	1.962
CHUKAR	CHUKAR/AW	1780.0	84/19	40.69	2.0345
BLUEBIRD	BLUEBIRD/AW	2156.0	84/19	42.70	2.135
KIWI	KIWI/AW	2167.0	72/7	44.12	2.206
JOREE	JOREE/AW	2515.0	76/19	47.75	2.3875

Tabla 2-C Algunas características de los cables seleccionados en este estudio, de cables ACSR y ACSR/AW.

PUNTO	ALTITUD	PRESION
A	0 MTS.	76.0 cm. HG
B	610 MTS.	70.1 cm. HG
C	1220 MTS.	65.0 cm. HG
D	1830 MTS.	60.2 cm. HG
E	2440 MTS.	55.9 cm. HG
F	3050 MTS.	51.8 cm. HG
G	3660 MTS.	48.0 cm. HG

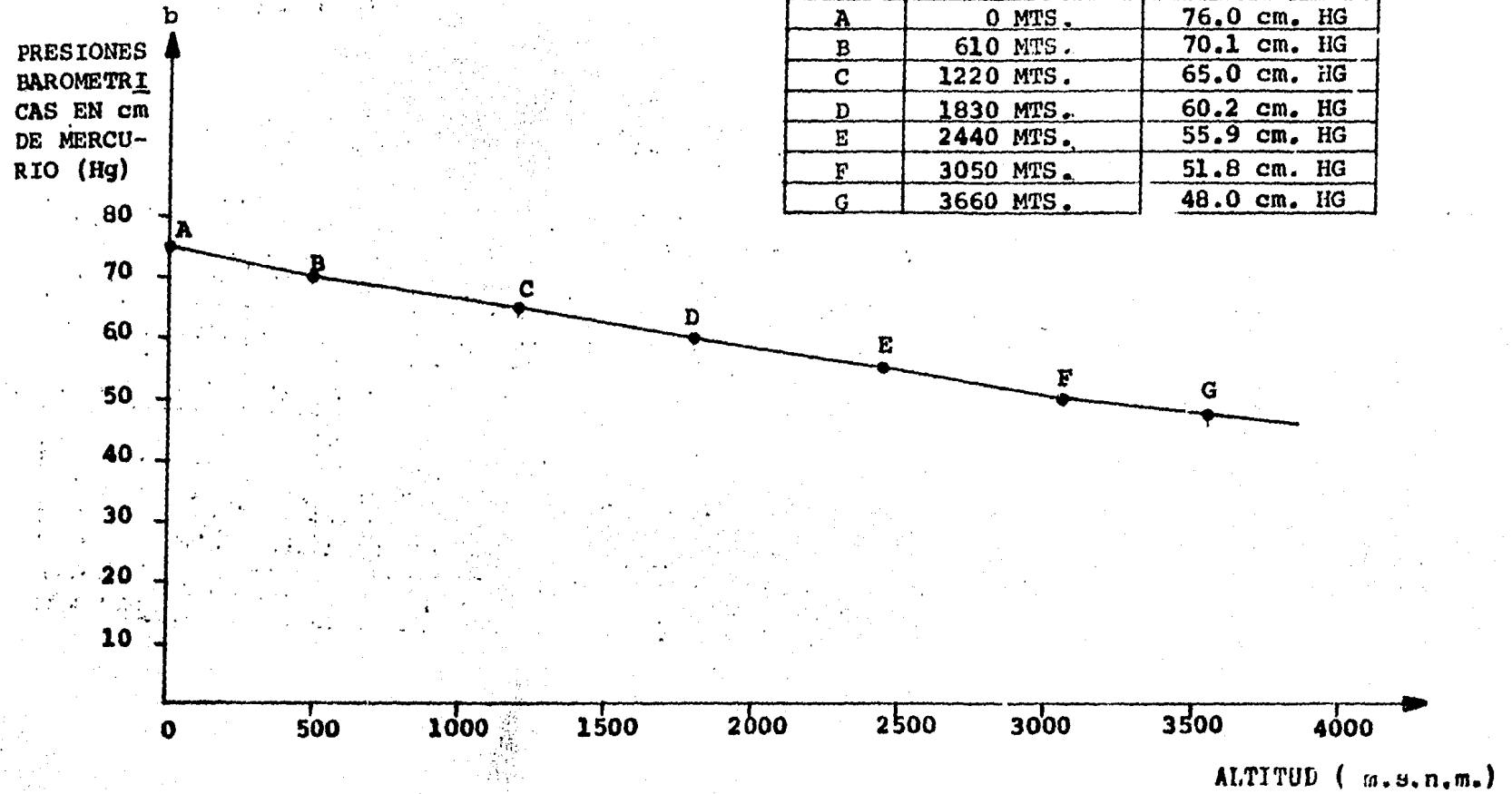


Fig.-2-D Presión Barométrica de los puntos A, B, C, D, E, F, G. a distintas altitudes.
Altitud (m.s.n.m.), Presiones (cm. Hg).

$$\delta = \frac{3.92\ b}{273 + t}$$

ALTITUD m.s.n.m.	t / b	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60
0	76.0	1.132	1.111	1.091	1.071	1.052	1.034	1.016	1.000	0.983	0.967	0.951	0.936	0.922	0.908	0.894
610	70.1	1.044	1.025	1.006	0.988	0.970	0.954	0.937	0.922	0.906	0.892	0.877	0.864	0.850	0.837	0.825
1220	65.0	0.970	0.950	0.930	0.920	0.900	0.880	0.870	0.860	0.840	0.830	0.810	0.800	0.790	0.780	0.770
1830	60.2	0.897	0.880	0.864	0.848	0.833	0.819	0.805	0.791	0.778	0.766	0.753	0.742	0.730	0.719	0.708
2440	55.9	0.833	0.817	0.802	0.788	0.774	0.760	0.747	0.735	0.723	0.711	0.700	0.689	0.678	0.668	0.658
3050	51.8	0.772	0.757	0.743	0.730	0.717	0.705	0.693	0.681	0.670	0.659	0.648	0.638	0.628	0.619	0.609
3660	48.0	0.715	0.702	0.689	0.676	0.664	0.653	0.642	0.631	0.620	0.610	0.601	0.591	0.582	0.573	0.565

Tabla 2-E Factor de densidad del aire (δ) a diferentes presiones y diferentes temperaturas.

b = PRESION BAROMETRICA EN CM. DE MERCURIO (Hg)
t = TEMPERATURA EN GRADOS CENTIGRADOS (°C)

expresiones del Gradiente Crítico Disruptivo y la tensión correspondiente.

2.8.5 ALTURA MEDIA GEOMETRICA DE LOS CONDUCTORES SOBRE EL NIVEL DEL PISO (H M G).

En forma similar a la D M G, se obtiene la H M G de los conductores de la línea, pero las dimensiones de la altura se toman con relación al piso -- considerado horizontalmente.

La Tensión Crítica Disruptiva se afecta ligeramente ya que está en función del logaritmo decimal de la altura media geométrica.

Tanto la D M G como la H M G influyen en el valor final de la Tensión Crítica Disruptiva en vista de que la capacitancia de la línea se ve afectada cuando se varía la separación entre conductores y entre éstos y tierra.

2.9 DEFINICION DE LAS MAGNITUDES NECESARIAS PARA EL ESTUDIO DE LAS EXPRESIONES DEL EFECTO CORONA.

Las magnitudes que intervienen en el estudio del Efecto Corona son las siguientes:

a).- Radio Medio Geométrico (R M G)

b).- Distancia Media Geométrica (D M G)

c).- Altura Media Geométrica (H M G)

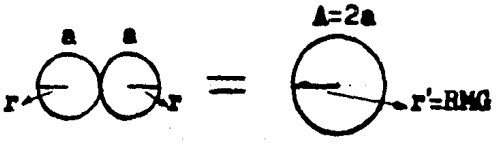
2.9.1 DEFINICION DE RADIO MEDIO GEOMETRICO (R M G)

Este concepto se aplica a cables de uno o varios cables por fase, si se trata de un cable por fase, el radio medio geométrico (R M G) de dicho cable es un radio ficticio de un alambre de --

sección circular cuya área es igual al área total conductora del cable considerado.

Por ejemplo:

En un cable de dos hilos el R M G vale:



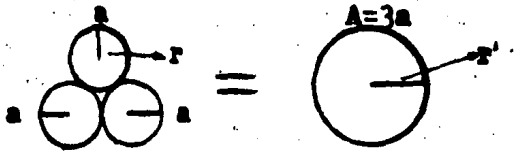
$d=2r \qquad D=2r'$

$$2\left[\frac{\pi d^2}{4}\right]=A=\frac{\pi D^2}{4}$$

$$\frac{2\pi 4r^2}{4}=\frac{\pi 4r'^2}{4}$$

$$2r^2=r'^2 \qquad \therefore \quad r'=\sqrt{2}\,r=1.41r \quad \ldots\ldots\ldots(2-2)$$

En un cable de tres hilos el R M G vale:



$$\frac{3\pi 4r^2}{4}=\frac{\pi 4r'^2}{4}$$

$$3r^2=r'^2 \qquad r'=1.732r \quad \ldots\ldots\ldots(2-2A)$$

Generalizando:

$$RMG=\sqrt{n}\,r \quad \ldots\ldots\ldots\ldots\ldots(2-3)$$

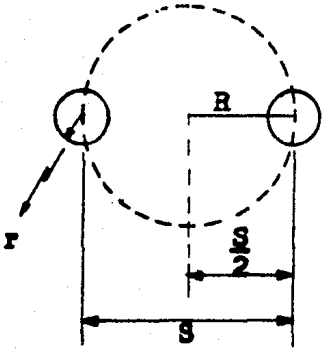
Siendo n el número de hilos y r el radio de un -- alambre que forman el cable, siempre que todos los hilos sean de igual sección y todos conductores -- (cosa que no sucede en los cables con alma de acero).

Si se trata de varios cables por fase el (RMG) se va a referir a un valor que convina el número de -- cables (n), el radio (r) de dichos cables, y el radio de un cilindro longitudinal y simétrico a los mismos que pasa por el centro de ellos (R) y cuyo valor está dado por la siguiente expresión.

$$R\ M\ G = \sqrt[n]{nrR^{n-1}} \quad \text{.....(2 - 4)}$$

En nuestra busqueda de información que analiza el - Efecto Corona en lineas de extra altas tensiones -- hemos encontrado que para disminuir tal efecto a un valor aceptable se requieren cuando menos dos ca -- bles por fase. Esto nos ha llevado a presentar las- siguientes distribuciones.

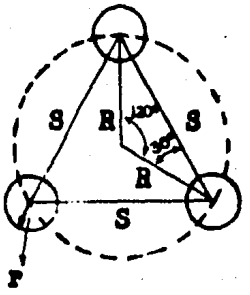
Para dos cables por fase su radio " R " vale:



$$\text{" R "} = \frac{S}{2} \text{.....(2 - 5)}$$

En la cual S es la separación entre centros de con- ductores.

Para tres cables por fase su radio " R " vale:



De la ley de los senos

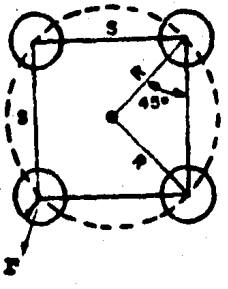
$$\frac{S}{\text{sen } 120^\circ} = \frac{R}{\text{sen } 30^\circ}$$

$$R = \frac{S}{\text{sen } 120^\circ} \cdot \text{sen } 30^\circ$$

$$R = \frac{S}{\frac{\sqrt{3}}{2}} \cdot \frac{1}{2}$$

$$R = \frac{S}{\sqrt{3}} \quad \text{.....(2 - 6)}$$

Para cuatro cables por fase su radio " R " vale:

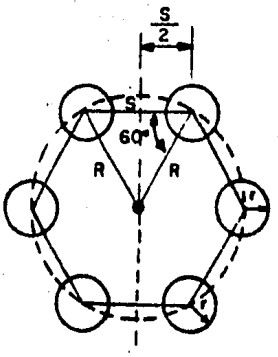


$$\cos 45^\circ = \frac{R}{S}$$

$$R = S \cos 45^\circ$$

$$R = \frac{S}{\sqrt{2}} \quad \text{.....(2 - 7)}$$

Para seis cables por fase su radio " R " vale:



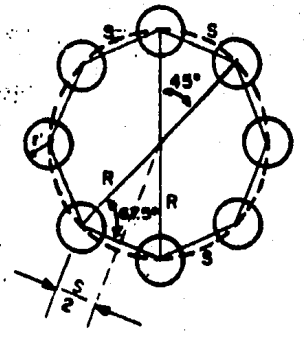
$$\cos 60^\circ = \frac{1}{2}$$

$$\cos 60^\circ = \frac{\frac{S}{2}}{R}$$

$$\frac{R}{2} = \frac{S}{2}$$

$$R = S \quad \text{.....(2 - 8)}$$

Para ocho cables por fase su radio " R " vale:



$$\cos 67.5^\circ = \frac{\frac{S}{2}}{R}$$

$$R = \frac{\frac{S}{2}}{\cos 67.5^\circ} = \frac{\frac{S}{2}}{0.383}$$

$$R = \frac{0.5\,S}{0.383} = 1.31\,S$$

$$R = 1.31\,S \quad \text{.....(2 - 9)}$$

2.9.2 DEFINICION DE DISTANCIA MEDIA GEOMETRICA (DMG).

La distancia media geométrica es un concepto matemático muy útil en el cálculo del gradiente crítico disruptivo y de la tensión crítica disruptiva.

Por definición la distancia media geométrica de un conductor a un grupo de otros conductores es la media geométrica de las distancias desde el conductor en cuestión a cada uno de los demas y esta expresada matemáticamente por la siguiente expresión.

$$D\ M\ G = \sqrt[n]{D_1, D_2, D_3, D_4, \ldots\ldots D_n} \quad \ldots(2 - 10)$$

Calculo de la distancia media geométrica (DMG) entre fases.

Tenemos que:

$$D\ M\ G = \sqrt[3]{d_{AB}\ d_{BC}\ d_{AC}} \quad \ldots\ldots\ldots\ldots(2 - 11)$$

Es la expresión para el cálculo de la distancia media geométrica de una linea trifásica con un conductor por fase.

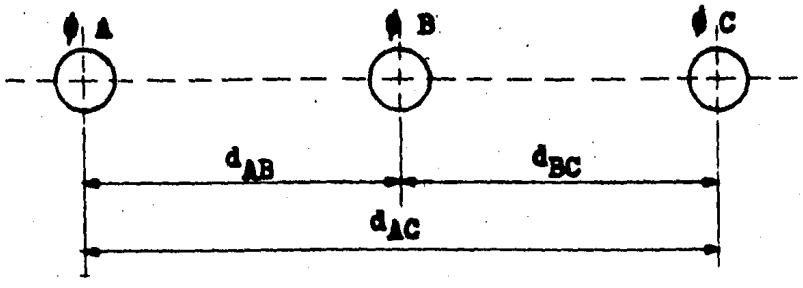


Fig. 2-F Circuito trifásico con un conductor por fase.

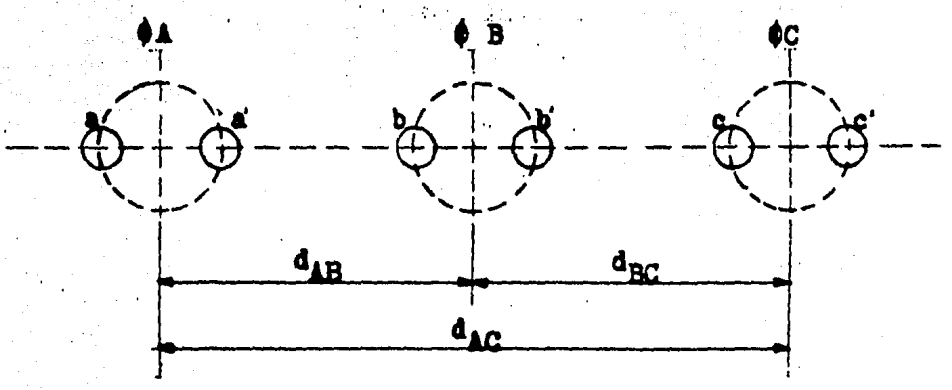


Fig. 2-G Cirtuito trifásico con dos conducto - res por fase.

Para fines prácticos cuando se diseñan lineas de -- transmisión con arreglos de n conductores por fase colocados simetricamente, se consideraran las distancias a centros de fases respectivamente.
Donde:

$$D\ M\ G = \sqrt[3]{d_{AB},\ d_{BC},\ d_{AC}} \quad \ldots\ldots (2 - 12)$$

Pudiendose apreciar que es la misma expresión que nos calcula la distancia media geométrica, de lineas de transmisión con un conductor por fase.

2.9.3 DEFINICION DE ALTURA MEDIA GEOMETRICA (HMG)

La altura media geométrica al igual que la distancia media geométrica es un concepto matemático muy útil en la cuantificación del Efecto Corona.

Por definición la altura media geométrica de un conductor es la media geométrica de las alturas desde el piso (h_1, h_2, h_3,.....h_n) a cada cable.- Cuya expresión matemática es la siguiente:

$$H\ M\ G = \sqrt[n]{h_1, h_2, h_3, \ldots\ldots h_n} \quad \ldots\ldots (2\text{-}13)$$

Cálculo de la altura media geométrica de los conductores en líneas de transmisión.

En vista de que en una línea se presenta una gran cantidad de alturas diferentes debidas a que los cables no siempre se encuentran en un mismo plano, aque el terreno no es uniforme y a la inherente catenaria de dichos cables, se obtiene la media geométrica de todas las alturas mediante la siguiente expresión.

Que nos da la altura media geométrica deseada:

$$H\ M\ G = \sqrt[3]{h_1\ ,\ h_2\ ,\ h_3} \quad \ldots\ldots (2\text{-}14)$$

Donde h_1, h_2 y h_3 son las alturas de los tres conductores respectivamente tratandose de líneas con un conductor por fase.

En el caso de n conductores por fase colocados simétricamente, h_1, h_2, y h_3 serán las alturas de los

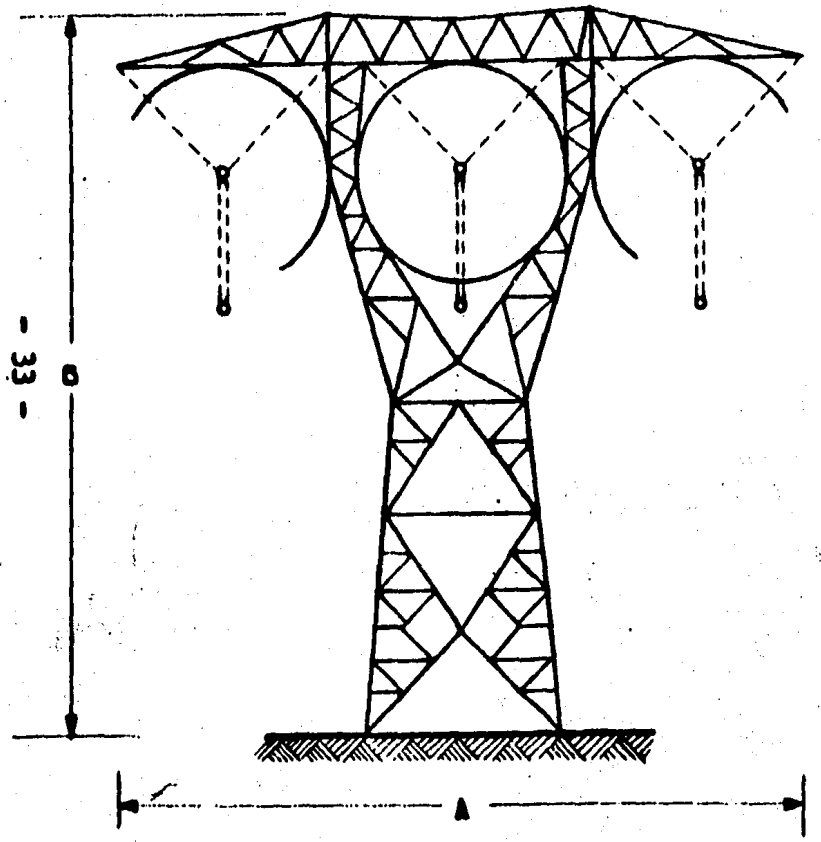


FIG. 2-H ESTRUCTURA DE LINEA DE TRANSMISION 400 KV.

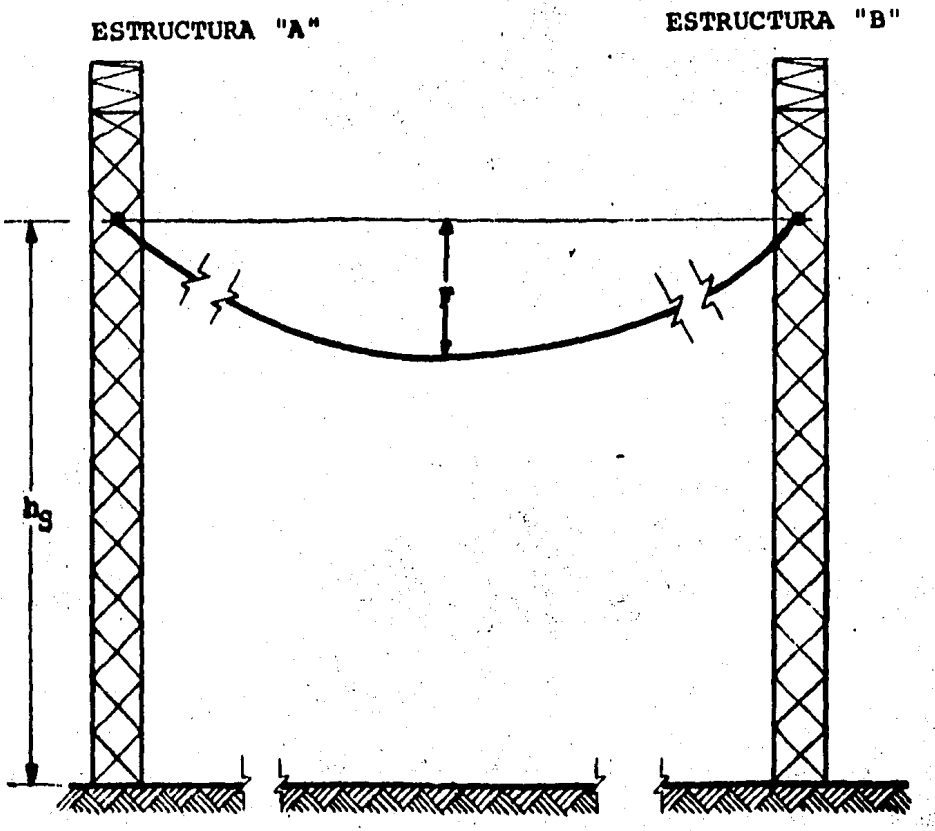


FIG. 2-J PERFIL ENTRE DOS ESTRUCTURAS MOSTRANDO hs y F.

centros de los n conductores que estén formando el arreglo de cada fase.

Cada altura se calculará con la siguiente expre -- sión:

$$h = h_s - 0.70\ F \quad \cdots\cdots \quad (2\text{-}15)$$

Donde:

h_s = Altura del conductor en el punto de soporte - (ver Fig. 2-J)

F = Flecha del conductor (ver Fig. 2-J)

2.10 DEFINICION Y DESARROLLO DE LAS EXPRESIONES PARA EL ESTUDIO DEL EFECTO CORONA.

2.10.1 GRADIENTE CRITICO DISRUPTIVO O INTENSIDAD DE CAMPO ELECTRICO.

El gradiente crítico disruptivo es aquel valor del campo eléctrico, en el que se rompe la rigidez dieléctrica del aislamiento. En nuestro caso el aislamiento que rodea a los cables es el aire.

J. W. Peek encontró que la rigidez del aire se rompe cuando el campo alcanza un valor de $g_o = 30\ \frac{Kv}{cm}$ con una onda de voltaje senoidal, considerando un- conductor energizado al nivel del mar y a 25 °C de temperatura.

La expresión matemática del gradiente de potencial es:

$$g_o = 30\ \frac{Kv}{cm} \quad \cdots\cdots\cdots \quad (2\text{-}16)$$

2.10.2 DESARROLLO DE LA EXPRESION DEL GRADIENTE CRITICO DISRUPTIVO.

Posteriormente hizo una corrección a la expresión 2-16 en la forma siguiente:

$$g_o = 30\left[1+\frac{0.3}{\sqrt{r}}\right] \quad \text{.....(2-17)}$$

De esta expresión vemos que la rigidez dieléctrica del aire se reduce a medida que se energiza un conductor de mayor radio (r) que otro de menor radio (r).

En la estación experimental de energía eléctrica de Chevilly, Francia, se efectuaron experimentos sobre cables de radio desde 0.7 cm. hasta 2.5 cm. y en condiciones atmosféricas de temperatura -- = 25 °C y presión atmosférica = 760 mm Hg. Habiendose obtenido la expresión siguiente:

$$g_o = 30\ (\ 1 - 0.07\ r\ ) \quad \text{..... (2-18)}$$

Tambien se encontró que la densidad del aire (δ) afecta al gradiente, en la cual influye la presión barométrica (b en cm. Hg.) y la temperatura del aire (t °C) que rodea al conductor.

$$\delta = \frac{3.92b}{273+t} \quad \text{..... (2-1)}$$

La expresión asi corregida es la siguiente:

$$g'_o = 30\ \delta\ (\ 1 + \frac{0.3}{\sqrt{\delta r}}\ ) \quad \text{.... (2-19)}$$

Por otra parte Peterson propone que la expresión del gradiente obtenida en Francia, debe ser corregida por el valor de $\delta^{2/3}$, quedando la siguiente expresión.

$$g_o' = g_o \delta^{2/3} \quad \ldots\ldots\ldots (2\text{-}20)$$

Finalmente en estudios sobre el Efecto Corona -- se ha encontrado que la rugosidad del conductor- (m), que involucra el factor de superficie (m_1) y el factor de forma (m_2) afectan el gradiente- crítico mencionado anteriormente, cuya expresión final, que toma en cuenta los estudios previos es la siguiente:

$$g_o' = 30\, m\, \delta^{2/3} (1 - 0.07\, r) \quad \ldots (2\text{-}21)$$

Esta expresión es válida para un conductor por - fase, para un haz de n conductores por fase el - gradiente crítico esta dado por la siguiente expresión:

$$g_o' = 30\, m\, \delta^{2/3} (1 - 0.07 r) \left[1 - \frac{(n-1)r}{R} \right] \ldots (2\text{-}22)$$

2.10.3 DESARROLLO DE LA EXPRESION DE LA TENSION CRITICA DISRUPTIVA.

Partiremos del caso de una línea de transmisión - aérea monofásica de dos hilos.

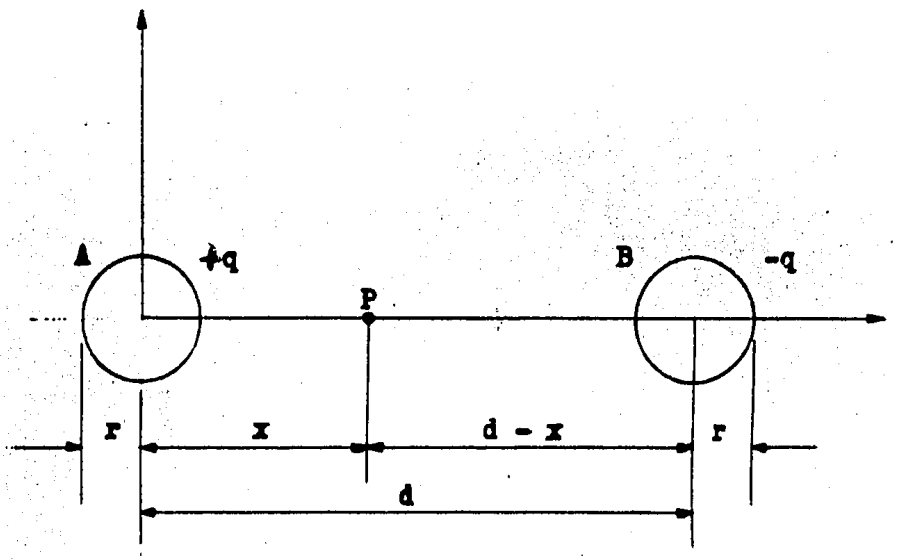


Fig. 2-K Línea de transmisión con dos hilos.

Se vio que el gradiente de potencial o intensidad de campo eléctrico en un punto P entre los dos conductores es:

$$-\frac{dV}{dx} = E = \frac{D}{K\epsilon_o} \quad 36\pi \cdot 10^9 \frac{q}{2\pi x} + \frac{q}{2\pi(d-x)} =$$

$$= 18 \cdot 10^9 \left(\frac{q}{x} + \frac{q}{d-x}\right) \cdots\cdots\cdots\cdots \quad (2\text{-}23)$$

En la cual:

q = Coulombs ; D=(Coulombs/m^2)

d y x = cm.

D = (q/(2π X · 1)) Densidad de flujo Eléctrico

K = constante dieléctrica del aire. = (1)

ϵ_o=(1/($36\pi 10^9$) Capacidad específica de inducción.

E es máximo para x = r ó sea cuando P es un punto de la superficie del conductor y esta dado por la

siguiente expresión.

$$g = 18 \cdot 10^9 \, q \left(\frac{1}{r} + \frac{1}{d-r} \right) \ldots \ (2\text{-}24) \left[\frac{Kv}{cm} \right]$$

El término $\frac{1}{d-r}$ es mucho menor que $\frac{1}{r}$ y puede despreciarse por lo tanto tenemos.

$$g = 18 \cdot 10^9 q \ \frac{1}{r} \ \ldots\ldots\ldots\ldots \ (2\text{-}25) \left[\frac{volt}{cm} \right]$$

La expresión anterior la aplicamos para calcular el gradiente de potencial en la superficie del conductor de una línea trifasica.

Se vio que la diferencia de potencial entre dos conductores debida a las cargas +q y -q estaba dada por la expresión (2-26)

$$V = 36 \cdot 10^9 q \ Ln \frac{d}{r} \ \ldots\ldots\ldots (2\text{-}26) \ \ [Volts.]$$

y el voltaje al neutro.

$$V_n = 18 \cdot 10^9 \ q \ L_n \frac{d}{r} \ \ldots\ldots (2\text{-}27) \ \ [Volts.]$$

La expresión anterior la aplicamos también a una línea trifásica sustituyendo d por la distancia media geométrica entre los tres conductores.

Por lo tanto:

$$V_n = 18 \cdot 10^9 \ q \ L_n \frac{DMG}{r} \ \ldots\ldots (2\text{-}28) \ \ [Volts.]$$

Despejando el valor de q en la expresión (2-25) obtenemos el gradiente de potencial en la superficie del conductor:

$$q = \frac{g \cdot r}{18 \cdot 10^9} \quad \cdots\cdots \quad (2\text{-}29)$$

Sustituyendo esta expresión del voltaje al neutro (2-28) tenemos que:

$$V_n = g\ r\ L_n \frac{DMG}{r} \quad \cdots\cdots \quad (2\text{-}30) \quad [\text{Volts.}]$$

Si el gradiente de potencial en la superficie del conductor alcanza el valor del gradiente crítico.

$$g'_o = 30\ m\delta^{2/3}(1 - 0.07\ r) \quad \cdots \quad (2.21) \left[\frac{Kv}{cm}\right]$$

El voltaje al neutro correspondiente se llama -- voltaje crítico disruptivo y se expresa como:

$$V_o = 30 m \delta^{2/3} (1 - 0.07\ r)\ r\ L_n \frac{DMG}{r} \quad \ldots (2\text{-}31) \quad [\text{Kv.}]$$

Recordando que $L_n = 2.3026\ \text{Log}_{10}\ A$ $\quad \cdots\cdots (2\text{-}32)$

$$V_o = 69.078\ m\delta^{2/3}\ (1 - 0.07\ r)\ r\ \text{Log}_{10} \frac{DMG}{r} \quad \ldots (2\text{-}33)$$

Que es la expresión final para el cálculo de la - tensión crítica disruptiva, cuando se tiene un sistema trifásico de un conductor por fase.

Si se trata de un conjunto de (n) conductores de - radio (r) colocados simétricamente sobre un círculo de radio (R) la tensión crítica disruptiva viene dada por la siguiente expresión:

$$V_o = 69.078\ m\ \delta^{2/3}(1 - 0.07\ r)\left[1 - \frac{(n-1)\ r}{R}\right] n\ r \cdot$$

$$\cdot \log_{10} \frac{DMG}{RMG} \cdot \frac{2\ HMG}{\sqrt{4\ (HMG)^2 + (DMG)^2}} \quad \ldots(\ 2\text{-}34\ ).\ [Kv.]$$

Donde:

m = factor de rugosidad.

densidad del aire.

r = radio del conductor.

n = número de conductores por fase.

R = radio equivalente o ficticio del haz de conductores por fase.

DMG = distancia media geométrica.

RMG = radio medio geométrico.

HMG = altura media geométrica.

V_o = tensión crítica disruptiva.

g'_c = gradiente crítico disruptivo (ec. 2-22).

Como puede verse al analizar la expresión de la tensión crítica disruptiva, la manera mas eficaz de aumentar el valor de ésta es aumentando el radio de los conductores o el número de conductores por fase. Un aumento de la distancia entre fases (DMG) y de la altura (HMG) también aumenta la tensión crítica disruptiva pero únicamente en proporción al logaritmo de dichos valores como se ve en la ec. (2-34).

2.10.4 COEFICIENTE DE SEGURIDAD.

El coeficiente resultante de dividir la tensión crítica disruptiva (V_o) entre la tensión nominal

de la línea al neutro (V), es lo que denominamos Coeficiente de Seguridad (C. S.)

$$C.S. = \frac{V_2}{V} \quad \ldots\ldots \quad (2 - 35)$$

Para el buen diseño de una línea de transmisión - (no exista Efecto Corona) la condición ideal -- sería que dicho coeficiente fúera mayor o igual a uno. Sin embargo en la práctica se ha visto que - puede permitirse que la inevitable presencia del- Efecto Corona en líneas de extra alta tensión que se traduce en pérdidas de energía y produce Radio Interferencia como veremos mas adelante, puede -- ser cuantificada y aceptada siempre que las pérdidas no rebasen 0.621 $\frac{Kw}{Km}$ equivalente a 1 $\frac{Kw}{milla}$ cosa que analizó Peterson.

3.0 PERDIDAS POR EFECTO CORONA

En el diseño de las líneas de transmisión es de vital importancia considerar las pérdidas ocasionadas por el Efecto Corona, ya que el promedio anual de estas es considerable.

Se han realizado muchos experimentos para poder determinar las pérdidas por Efecto Corona, entre ellos podemos mencionar los experimentos realizados por F. W. Peek de la General Electric, -- así como, las investigaciones de M. J. Ryan --- (AIEE TRANS. 43, 1118, 1924), Peterson, y el - centro experimental en Chevilly en Francia en-- tre otros.

Recientemente S. Cristina y M. D'amore, ambos - investigadores de la Universidad de Roma, han - desarrollado un método (Algoritmo) por computadora, para la cuantificación de las pérdidas- por Efecto Corona y el nivel de Radio Interfe-- rencia causado por las líneas de alta tensión - en las comunicaciones (IEEE POWER ENGINEERING- SOCIETY A 77560-6,17 y 22 DE JUNIO DE 1977)

3.1 CUANTIFICACION DE LAS PERDIDAS POR EFECTO CORONA.

En la cuantificación de las pérdidas por Efecto Corona se pueden emplear en general dos métodos.

a).- El Método Experimental.

b).- El Método Empírico.

3.1.1 En el método experimental se pueden determinar las pérdidas por Efecto Corona, aplicando tensiones y tomando lectura de pérdidas, para cada tensión. Estos experimentos fueron realizados por F. W. Peek, el cual obtuvo una gráfica similar a la siguiente:

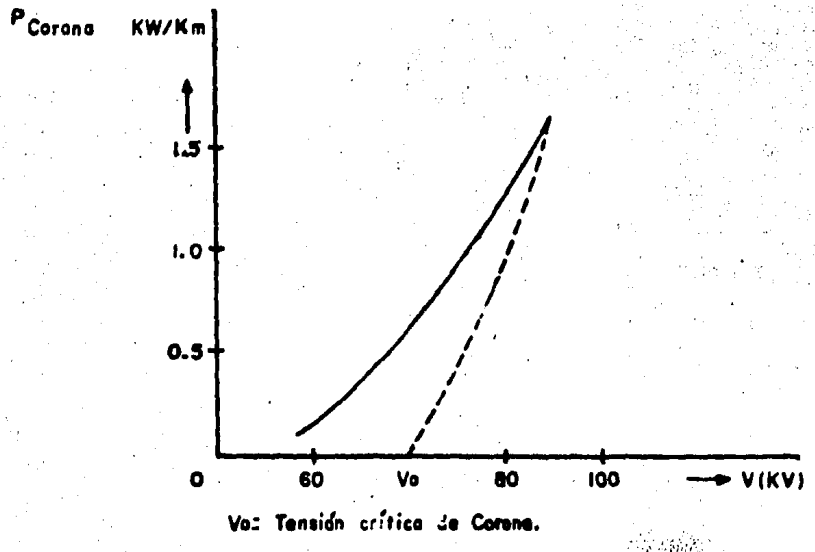


Fig. 3-A Curva de Peek pérdidas (Kw/Km) por fase contra tensiónes (Kv) entre fases.

En esta gráfica Peek fue aumentando lentamente la tensión hasta llegar a un determinado valor de pérdidas, después redujo la tensión lentamente y observó que no se regresa por el mismo camino, determinando que el punto donde la curva corta al eje de tensiones de-

termina el valor de la tensión crítica de - Corona (V_o).

3.1.2 En el segundo método, o sea el método empírico se han desarrollado expresiones para - el cálculo de las pérdidas por Efecto Corona tales como la de F. W. Peek, H. J. Ryan, Holm , Peterson, así como el algoritmo de S. Cristina y M. D' amore (IEEE A 77560-6, 17 y - 22 JUNIO 1977).

La fórmula de Peterson es la que emplearemos en éste trabajo, la cual se utiliza para el cálculo de las pérdidas mencionadas y es la siguiente.

Un conductor por fase:

$$P = \frac{20.96 \cdot 10^{-6} \cdot f \left(Kvn \right)^2 F}{\left(Log_{10} \cdot \frac{DMG}{r} \right)^2} \quad .... \quad (3\text{-}1)$$

$$\left[Kw/Km/1 \text{ fase} \right]$$

n condustores por fase

$$P = \frac{20.96 \cdot 10^{-6} \cdot f \left(Kvn \right)^2 F}{\left(Log_{10} \frac{DMG}{RMG} \right)^2} \quad .... \quad (3\text{-}2)$$

$$\left[Kw/Km/1 \text{ fase} \right]$$

Donde:

P = Pérdidas por Efecto Corona.

f = Frecuencia (Hz)

Kv_n = Voltaje al neutro (Kv)

DMG = Distancia media geométrica entre conductores. (cm).

r = Radio del conductor (cm)

$F = \varphi\left(\frac{Vn}{Vo}\right)$

Vn = Voltaje al neutro (Kv)

Vo = Voltaje crítico disruptivo (Kv)

RMG = Radio medio geométrico (cm)

$\varphi\left(\frac{Vn}{Vo}\right)$	F
0.6	0.011
0.7	0.014
0.8	0.018
0.9	0.025
1.0	0.036
1.1	0.053
1.2	0.085
1.3	0.0150
1.5	0.950
2.0	7.000
10.0	28.000

Fig. 3-B Valores de F en función de Vn y Vo.

Las condiciones atmosféricas del medio ambiente influyen considerablemente en la cuantificación de las pérdidas por Efecto Corona, por ejemplo- (la lluvia aumenta las pérdidas por Efecto Corona hasta diez veces que las pérdidas en ocasiones normales).

En un medio contaminado las pérdidas ocasionadas por este fenómeno también aumentan considerablemente.

3.2 Ejemplo:

Cálculo del coeficiente de seguridad y pérdidas por Efecto Corona de una línea de transmisión de 500 Kv. constituida por un circuito trifásico con tres conductores por fase (Ver Fig. 3-C)

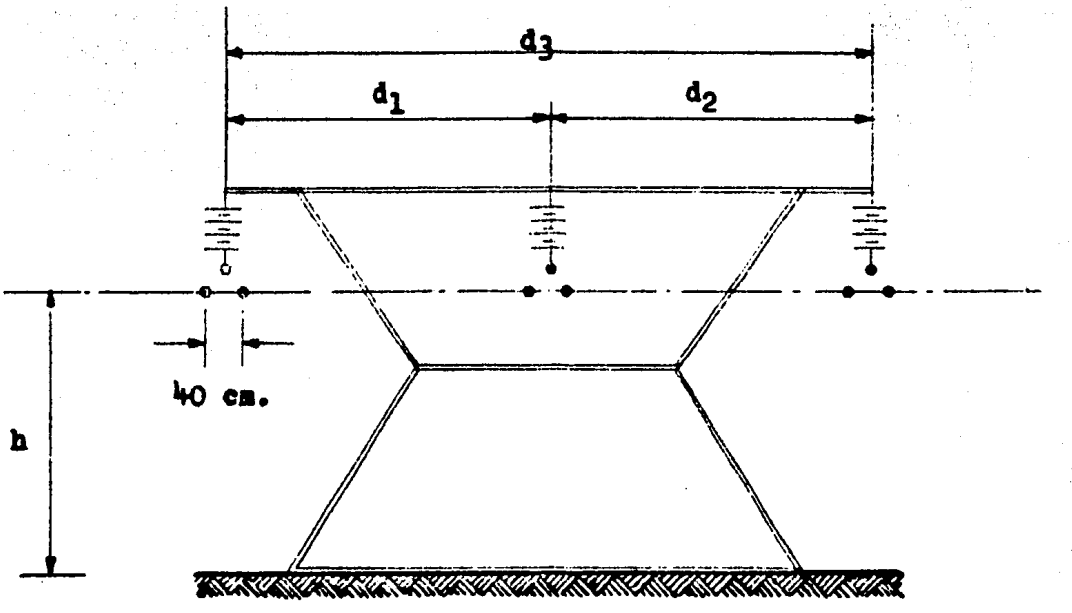


Fig. 3-C Línea de transmisión trifásica 500 Kv. entre fases.

Donde:

Radio de los conductores 1.62 cm (calibre 1113.5-ACSR/AW) la flecha media de los conductores es de 13.5 m., factor de superficie (m = 0.81, tabla 2-B) temperatura ambiente de la línea 50 °C y presión - barométrica 701 mm Hg. que corresponde a una altura de 610 m.s.n.m. (gráfica 2-D y tabla 2-E).

Solución:

$\delta = 0.85$ de tabla (2-E)

$g_o = 16.54$ (Kv/cm) para 500 Kv de tabla página 96

$V_o = 325.94$ (Kv.) para 500 Kv de tabla página 96

C.S.=1.12 para 500 Kv de tabla página 96

De tabla (3-B) obtengamos F para sustituir en - ecuación de pérdidas por Efecto Corona.

$$F = \varphi\left(\frac{500/\sqrt{3}}{325.94}\right) = \varphi\left(\frac{288.68}{325.94}\right) = \varphi(\ 0.886\ )$$

$$F = \varphi(\ 0.886\ )$$

De donde el valor de F podrá obtenerse interpolando entre los valores para $\frac{Vn}{Vo}$ de 0.8 y 0.9, lo que nos da un valor de F=0.022 que hemos incluido en la expresión (3-2) siguiente:

$$P = \frac{20.96 \cdot 10^{-6} \cdot 60 \left(\frac{500}{\sqrt{3}}\right)^2 0.022}{\left(\text{Log}_{10} \frac{1160}{13.80}\right)^2} = 0.620 \left[\frac{Kw}{Km}\right]$$

Que está dentro del valor aceptable de un buen diseño. Según vimos con anterioridad.

4.0 RADIO INTERFERENCIA

Como se ha mencionado anteriormente, el Efecto-- Corona en las líneas de transmisión causa radio- interferencia (perturbaciones en las comunica - ciónes), debido a los efluvios propios de di -- cho efecto, que generan óndas amortiguadas de -- alta frecuencia.

Dichas frecuencias oscilan entre 5,000 KHz y ---- 10,000 KHz en amplitud modulada, que corresponden a parte de la banda de frecuencia de radio comunicación.

Este tipo de ondas no interfiere con las señales de televisión ni de radio por ser éstas de Fre-- cuencia Modulada.

Las ondas amortiguadas del Efecto Corona se propagan a lo largo de los conductores y transver - salmente a los mismos. Se han obtenido curvas de atenuación de la propagación de dichas ondas, como se muestra en la Fig. 4-A.

Una expresión matemática que nos da la intensi - dad de campo en función de la distancia transversal de una línea es la No. 4-1

$$E_x = E_o = \frac{H^2}{H^2 + X^2} \quad \cdots\cdots (4\text{-}1) \quad \left[\frac{Kv}{m}\right]$$

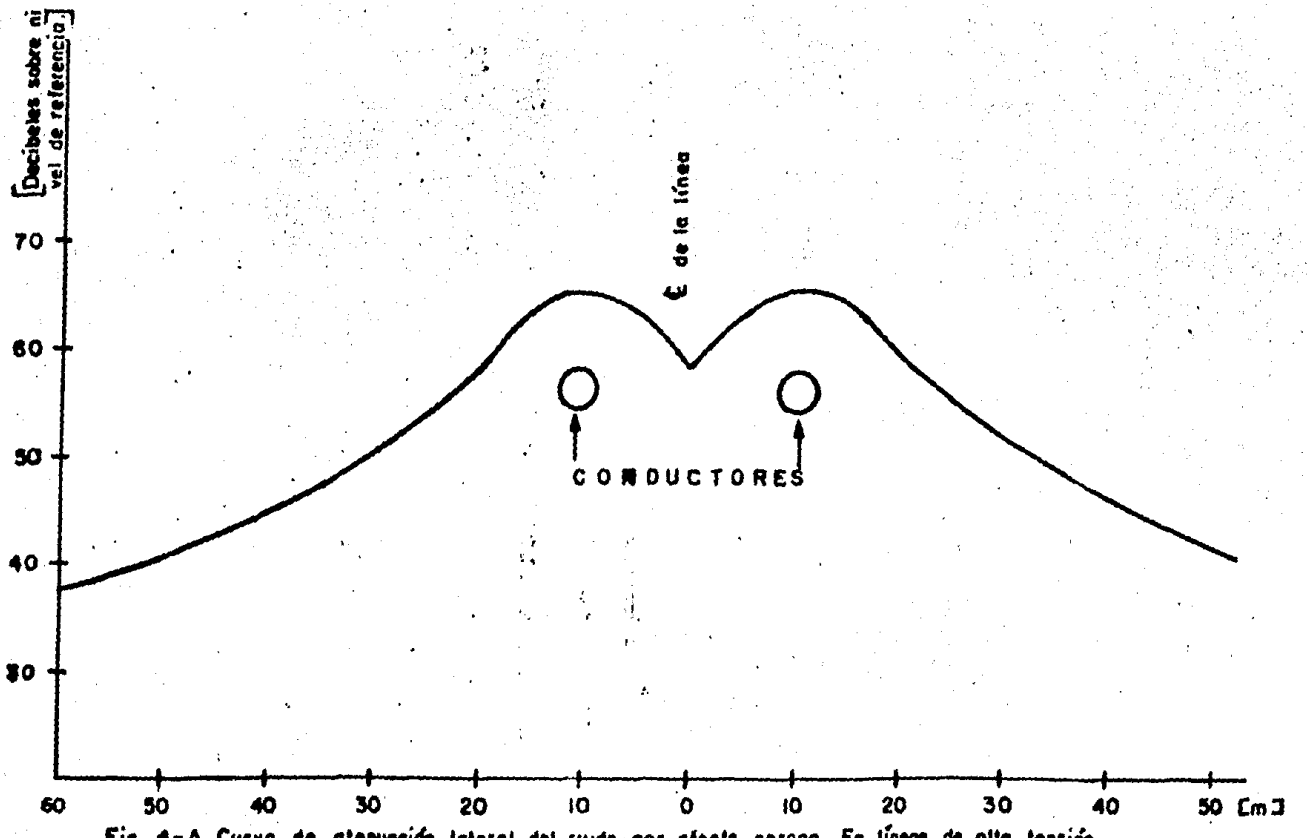


Fig. 4-A Curva de atenuación lateral del ruido por efecto corona. En líneas de alta tensión

En donde:

Eo Intensidad de campo producido en los extremos de una línea (Kv/m)

H Altura media de la línea (m)

X Distancia del conductor extremo al punto de - medición (m)

Ex Intensidad de campo a la distancia X del conductor extremo (Kv/m)

A continuación mostramos el espectro de frecuencia producido por la radio interferencia que tiene la forma mostrada en la Fig. 4-B.

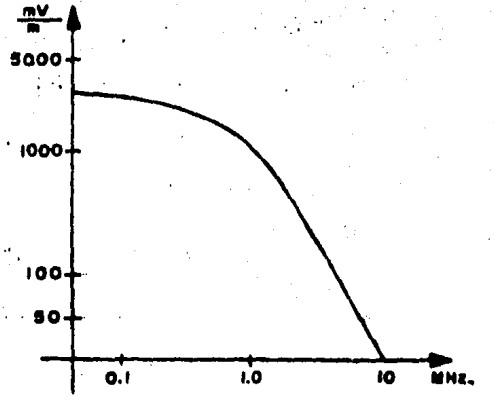


Fig. 4-B Forma del espectro de frecuencias, generado en líneas de alta tensión.

4.1 EXPERIMENTOS SOBRE RADIO INTERFERENCIA.

En pruebas efectuadas recientemente en Suiza referentes a los niveles de radio interferencia -- originados por una línea de transmisión (hasta- 300 Kv.), donde se utilizó un conductor de ---- 27.7 mm de diámetro y bajo diferentes condicio - nes atmosféricas se lograron obtener los siguien tes resultados.

a).- Cuando el conductor se energizó con corrien te directa se observó lo siguiente:
Con polaridad positiva, el nivel de radio - interferencia era mucho mayor que cuándo di cho conductor se energizaba con polaridad - negativa.

b).- Cuando el conductor se energizó con corrien te alterna y para condiciones atmosféricas- normales el nivel de radio interferencia -- era mucho mayor para los semiciclos positi- vos que para los semiciclos negativos.

c).- Para condiciones atmosféricas anormales --- (lluvia, nieve, polvo, medio contaminado) el nivel de radio interferencia se incre -- mentó considerablemente para los semiciclos positivos y se redujo ligeramente para los- semiciclos negativos.

d).- Se observó también que para cables perfecta mente pulidos que están energizados positi-

vamente, el nivel de radio interferencia era - despreciable, mientras que, energizado negativamente, el nivel de radio interferencia era - más severo.

Posteriormente se realizaron pruebas de niveles de radio interferencia y sus correspondientes- pérdidas de energía en líneas de transmisión - energizadas con tensiones hasta de 550 Kv., obteniendose el siguiente resultado:

Se comprobó que para líneas de extra alta tensión operando en condiciones normales, los niveles de radio interferencia y sus correspon - dientes pérdidas se incrementaban en función - de la tensión aplicada. Ver Fig. 4-C (AIEE -- TRANS. 70 1951 P. 90 FIG. 21).

Por lo tanto, la estandarización de los nive-- les permisibles en el fenómeno de la radio interferencia y sus correspondientes pérdidas -- ocasionados por el Efecto Corona, se siguen -- investigando.

Cabe mencionar en este trabajo las brillantes- investigaciones realizadas en el terreno de la radio interferencia y pérdidas por Efecto Corona ocasionados en líneas de extra alta tensión, de los investigadores Italianos S. Cristina y- M. D' amore los cuales han desarrollado un método computacional (Algoritmo) para la cuan-

tificación de estos fenómenos extremadamente aleatorios en condiciones anormales.

Dichos investigadores efectuaron en Roma experimentos en líneas de transmisión de 550 Kv, 1050 Kv, y 1200 Kv.

Los resultados obtenidos experimental y matemáticamente se muestran en la Fig. 4-D.

(IEEE TRANS. A 77560-6 JULIO 17 Y 22, 1977).

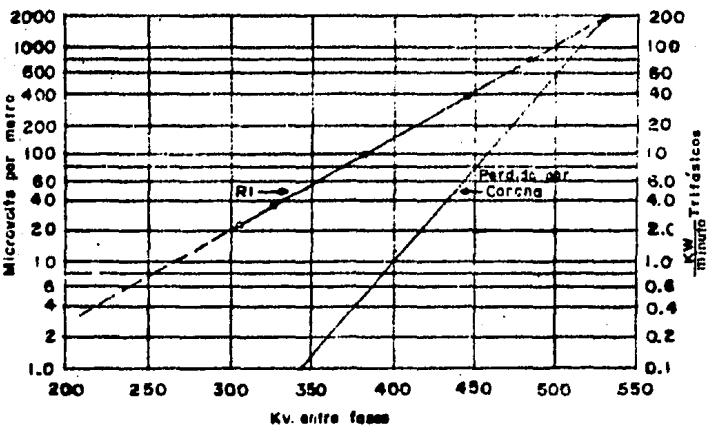
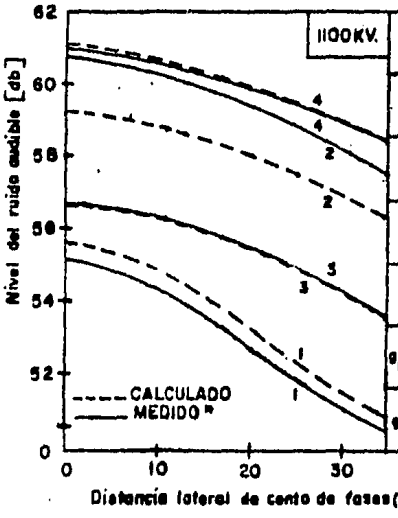


Fig. 4-C Variación de los niveles de Radio-- Interferencia en una línea de transmisión trifásica de 35 mts. de longitud y a una separación de 10 mts. entre fases (Arreglos de conductores por fase de acuerdo con lo descrito en la tabla 5-A).



No.	1	2	3	4
n	3	4	4	8
r mm	16	15	18	21
h m	12	20	20	21
D m	10	12	15	18
$g_1 g_3$ kVcm^{-1}	16	19	16	13
g_2 kVcm^{-1}	17	21	17	14

n	2	6	6	6	8
r mm	35.0	23.0	15.0	20.0	20.0
h m	14.0	21.3	24.0	24.0	24.0
D m	10.0	18.3	18.5	18.5	18.5
$g_1 g_3$ kVcm^{-1}	10.4	13.7	21.6	17.2	14.1
g_2 kVcm^{-1}	11.2	15.0	23.5	18.7	15.4
Vk volt	550	1050	1200	1200	1200
CL Wm^{-1}	60	245	828	588	300
CL* Wm^{-1}	57	260	800	590	280

(a) (b)

Fig. 4-D a).- Nivel de Radio Interferencia (Nivel de ruido-audible)

b).- Pérdidas por Efecto Corona en R. I.

5.0 INTERPRETACION DE LAS TABULACIONES.

En las tablas correspondientes a este capítulo - aparecen enlistados los valores del gradiente -- crítico disruptivo (g_o), tensión crítica dis - ruptiva (V_o), y coeficiente de seguridad (C S) para las diferentes disposiciones utilizadas en- líneas de transmisión y subestaciones desde ---- 400 Kv hasta 1,500 Kv.

Los valores tabulados, son el resultado de cálcu los teniendo en cuenta diferentes condiciones -- atmosféricas, (distintas temperaturas y distin- tas presiones barométricas, y altitudes sobre el nivel del mar), características básicas de los- cables utilizados en líneas de transmisión, asi- como los criterios de diseño para el cálculo de- dichas líneas, publicados por la (IEEE THE FU - TURE OF UHV TRANSMISSION LINES " SPECTRUM 44 19- 69 ") IEEE y que han sido reproducidos en la -- tabla 5-A.

Las expresiones empleadas para éste cálculo fue- ron las desarrolladas en el capítulo dos y que - son:

Gradiente Crítico Disruptivo (g_o).

$$g'_o = 30.0 \, m \, \delta^{2/3} \left(1 - 0.07 \sqrt{r} \right) \left[1 - \frac{(n-1)}{R} r \right] \quad [Kv/cm] \qquad ..(2\text{-}22)$$

Tensión Crítica Disruptiva (V_o).

$$V_o = 69.078\ m\,\delta^{2/3}\ (1 - 0.07\ r)\left[1 - \frac{(n-1)}{R}\ r\right] n \cdot r \cdot \cdot \log_{10}\frac{DMG}{RMG} \cdot \frac{2\ HMG}{\sqrt{4(HMG)^2 + (DMG)^2}} \quad \cdots\cdots\ (2\text{-}34)\ \left[Kv.\right]$$

Coeficiente de Seguridad (C. S.)

$$C.\ S. = \frac{V_o}{V} \quad \cdots\cdots\cdots\cdots\cdots\cdots\ (2\text{-}35)$$

El cálculo de estos valores tuvo dos etapas; el análitico manual y el cálculo desarrollado por la computadora.

El análitico manual esta comprendido desde la página 62 hasta la página 68. En este cálculo planteamos el problema, efectuamos todas las consideraciones pertinentes para evitar el Efecto Corona en los diferentes niveles de tensión y preparamos un programa para obtener los resultados tabulados por la computadora.

Los valores obtenidos se dan en las paginas desde la No.69 hasta la No. 248.

Ejemplo: De una línea de transmisión deseamos conocer la tensión crítica disruptiva, gradiente crítico disruptivo y el coeficiente de seguridad. Dicha línea opera a una tensión nominal entre fases de 500 Kv y está constituida por un circuito trifásico con tres

conductores por fase.

De la Tabla 5-A obtenemos para los conductores, los siguientes valores:

Radio 1.62 cm. (calibre 1113.5 ACSR/AW), flecha - media 13.5 mts.

De las Tablas 2-B y 2-E obtenemos:

El factor de superficie $m = 0.81$ y el factor de densidad del aire $\delta = 0.85$ para ($t = 50$ °C y $p = 701$ mm de Hg.).

Solución:

buscando en la página 96 para una $m = 0.81$ y una - $\delta = 0.85$ obtenemos los datos buscados para una tensión nominal de 500 Kv.

g_o = 16.54 Kv/cm.

V_o = 325.94 Kv.

C. S. = 1.12 que es mayor que uno, y por lo dicho antes (parrafo 2.10.4), podemos observar que no - se presenta el Efecto Corona apreciable o en otras- palabras la pérdida está dentro de los limites tolerables.

(Nótese el ahorro de tiempo al tener los datos ya- tabulados).

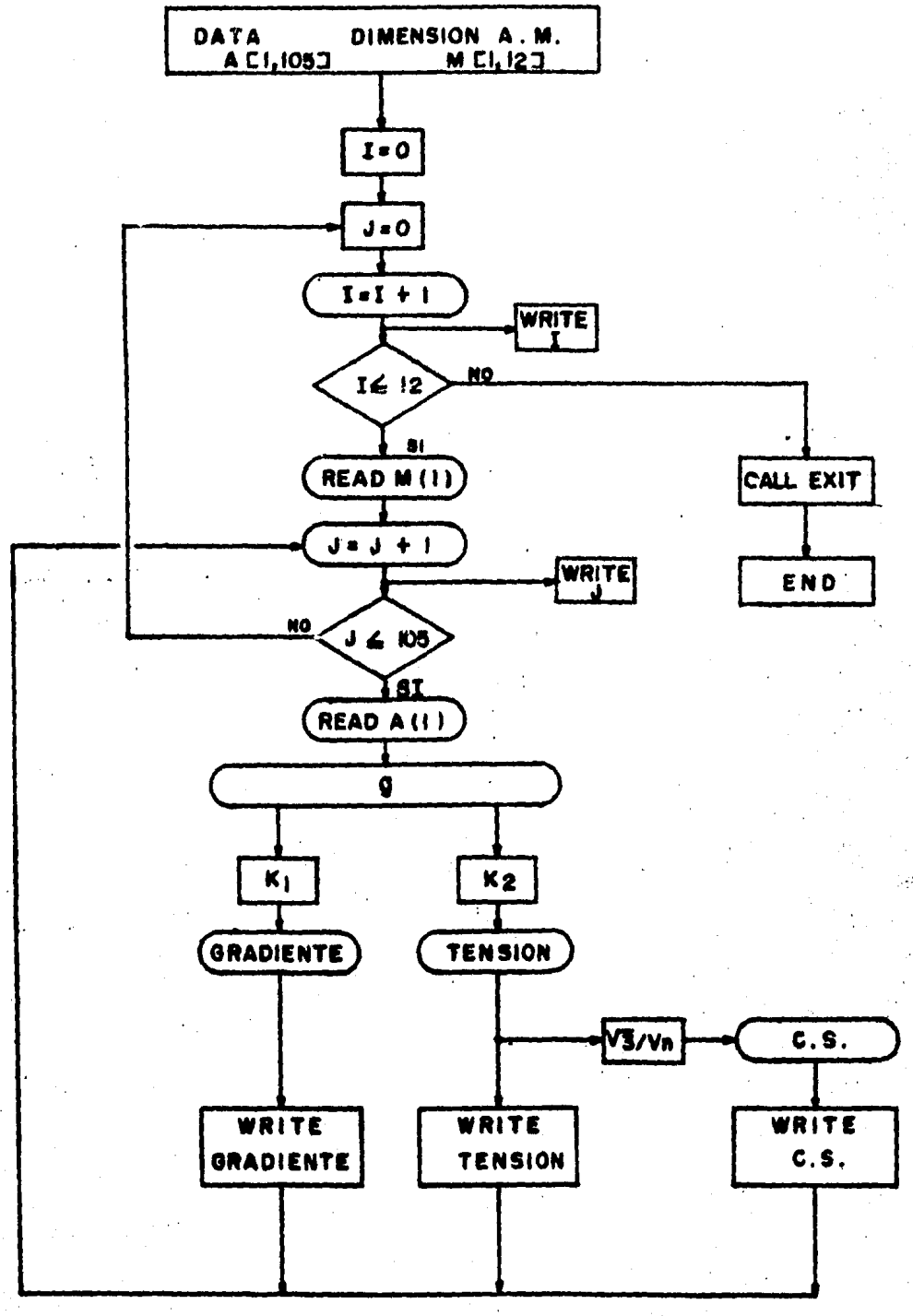
SISTEMAS DE EXTRA ALTA TENSION (Vn) KV	U.	420	525	765	1000	1300 .	1500
SECCION DE ALUMINIO TOTAL POR FASE (S)	mm^2.	1240	1660	2680	3780	5250	6300
NUMERO DE CONDUCTORES POR FASE (n)	——	2	3	4	6	8	8
DIAMETRO DEL CONDUCTOR (Ø)	mm.	34.5	32.4	35.8	34.7	35.5	38.8
RADIO DEL CONDUCTOR (r)	cm.	1.725	1.620	1.790	1.735	1.775	1.940
CLARO DEL CONDUCTOR A LA TORRE (d)	m.	3.0	3.90	5.60	7.20	8.50	9.40
CLARO DEL CONDUCTOR DE TIERRA A LA FLECHA(c)	m.	7.2	8.45	10.8	13.1	15.0	16.2
DISTANCIA ENTRE ESTRUCTURAS (L)	m.	400	420	445	475	500	515
FLECHA DEL CONDUCTOR (s)	m.	12	13.5	15	17	19	20
ALTURA DEL CONDUCTOR A LA TORRE (H)	m.	19.2	21.7	25.8	30.1	34.0	36.2
DISTANCIA ENTRE FASES (D)	m.	7.30	9.20	12.8	16.1	19.0	20.8
ANCHO DE LA TORRE (A)	m.	20.00	25.4	35.6	45.2	53.3	58.4
ALTURA DE LA TORRE (B)	m.	24.6	28.2	35.5	42.25	47.9	51.5

Tabla 5-A Consideraciones que deben tomarse en cuenta al diseñar Líneas de Transmisiòn a varios niveles de tensiòn.
(THE FUTURE OF UHV TRANSMISSION. LINES IEEE " SPECTRUM - 44 1969 PARIS L.)

5.1 PROGRAMA DE COMPUTADORA UTILIZADO PARA EL CALCULO DEL GRADIENTE CRITICO DISRUPTIVO, TENSION CRITICA DISRUPTIVA Y COEFICIENTE DE SEGURIDAD (LENGUAJE UTILIZADO: FORTRAN IV)

```
      DIMENSION A(105),M(12)
      READ(5,30)(DELTA(I),I=1,105)
      READ(5,30)(M(I),I=1,12)
      WRITE(6,40)
      DO 10 I=1,12
      DO 10 J=1,105
      G=_____*M(I)*(10**(_____))*0.6666*A
    1 LOG10(DELTA(J))
      WRITE(6,60)G
   10 CONTINUE
      WRITE(6,100)
      DO 11 I=1,12
      DO 11 J=1,105
      VO=_____*M(I)*(10**(_____))*0.6666*A
    1 LOG10(DELTA(J))
      WRITE(6,200)VO
   11 CONTINUE
      WRITE(6,200)
      DO 12 I=1,12
      DO 12 J=1,105
      VO=_____*M(I)*(10**(_____))*0.6666*A
    1 LOG10(DELTA(J))
      CS=VO*(SQRT(3))/VM
      WRITE(6,62)(VO,CS)
   12 CONTINUE
   30 FORMAT(5F9.3,2X))
   40 FORMAT(4X,'GRADIENTES')
  100 FORMAT(4X,'TENSIONES')
  200 FORMAT(4X,'C.S.')
   60 FORMAT(20X,E15.9)
   62 FORMAT(3X,'VO',E11.5,'CS',E11.5)
      CALL EXIT
      END
```

5.2 DIAGRAMA DE FLUJO DEL PROGRAMA DE (g_o, V_o, y C.S.)

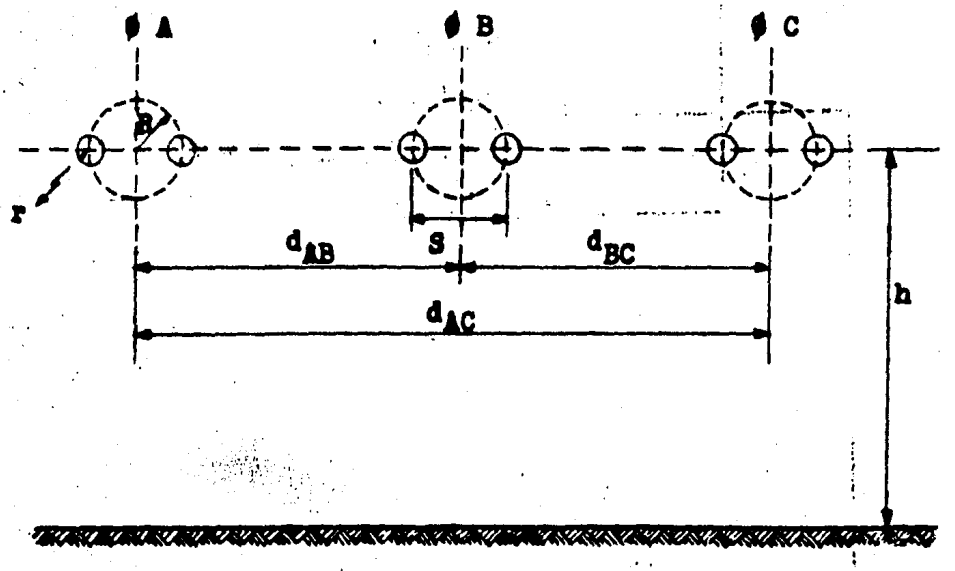


5.3 INFORMACION PROPORCIONADA A LA COMPUTADORA PARA OBTENER LOS VALORES DESEADOS, A LAS - DIFERENTES TENSIONES.

5.3.1 PARA UNA TENSION DE 400 KV.

Datos:

Arreglo dos conductores por fase dispuestos simétrica y horizontalmente las tres fases.



n = 2 conductores
S = 40 cm.
R = S/2 20 cm.
$d_{AB}=d_{BC}$ = 7.30 m.
d_{AC} = 14.60 m.
h = 19.2 m.
F = 12.0 m.
r = 1.725 m

RMG = 8.37 cm.
HMG = 10.8 m. = 1,080 cm.
DMG = 9.20 m. = 920 cm.
CALIBRE = 1272.0 ACSR/AW ; 1.755 cm.

Los resultados fueron:

$$g_o = 24.0\ m\ \delta^{2/3} \quad \text{.....(5-1)}$$

$$V_o = 364.13\ m\ \delta^{2/3} \quad \text{.....(5-2)}$$

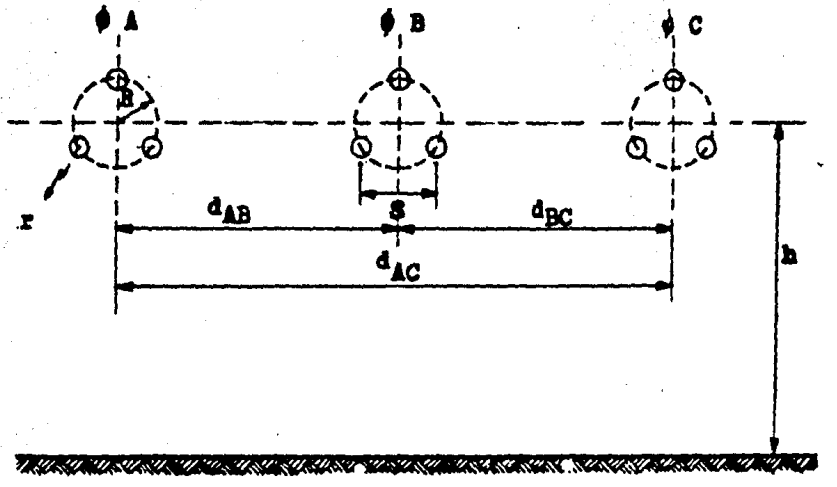
$$C.S. = \frac{V_o \sqrt{3}}{400} \quad \text{.....(5-3)}$$

Con las tres ecuaciones anteriores (5-1), (5-2) y (5-3) y para diversos valores de m y δ se obtuvieron todos los valores que se ven en las tablas - desde las paginas 69 a 248 para una línea de 400 Kv. En forma igual, con los correspondientes valores de g_o V_o C. S. dimensiones y cantidad de conductores- por fase segun el voltaje, se calcularon los valo-- res para las otras tensiones los cuales se encuen - tran en las tablas de las páginas mencionadas.

5.3.2 PARA UNA TENSION DE 500 KV.

Datos:

Arreglo tres conductores por fase dispuestos simétrica y horizontalmente las tres fases.



n = 3 conductores
S = 40 cm.
R = $S/\sqrt{3}$ = 23.10 cm.
$d_{AB} = d_{BC}$ = 9.20 m.
d_{AC} = 18.40 m.
h = 21.7 m.
F = 13.5 m.
r = 1.62 cm.
RMG = 13.80 cm.
HMG = 12.25 m. = 1,225 cm.
DMG = 11.60 m. = 1,160 cm.
CALIBRE = 1113.5 ACSR/AW ; 1.642 cm.

Los resultados fueron:

$g_o = 22.77\ m\ \delta^{2/3}$ . .....(5-4)

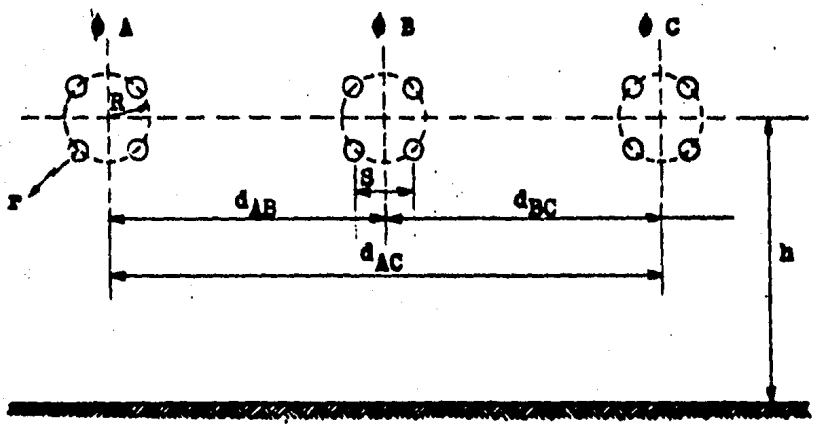
$V_o = 448.44\ m\ \delta^{2/3}$ .....(5-5)

$C.S. = \frac{V_o\sqrt{3}}{500}$ .....(5-6)

5.3.3 PARA UNA TENSION DE 750 KV.

Datos:

Arreglo de cuatro conductores por fase dispuestos simétrica y horizontalmente las tres fases.



n = 4 conductores
S = 40 cm.
R = $S/\sqrt{2}$ 28.36
$d_{AB} = d_{BC}$ = 12.80 m.
d_{AC} = 25.6 m.
h = 25.8 m.
F = 15 m.
r = 1.79 cm.
RMG = 20.15 cm.
RMG = 15.30 m. = 1530 cm.
DMG = 16.12 m. 1612 cm.
CALIBRE = 1351.5 ACSR/AW ; 1.808 cm.

Los resultados fueron:

$$g_o = 21.2\ m\ \delta^{2/3} \quad \text{.....(5-7)}$$

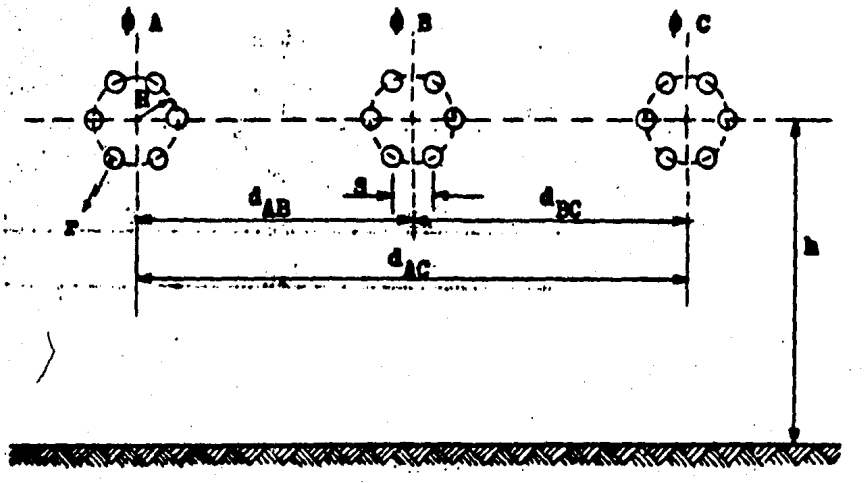
$$V_o = 593.32\ m\ \delta^{2/3} \quad \text{.....(5-8)}$$

$$C.S. = \frac{V_o \sqrt{3}}{750} \quad \text{.....(5-9)}$$

5.3.4 PARA UNA TENSION DE 1,000 KV.

Datos:

Arreglo de seis conductores por fase dispuetos simétrica y horizontalmente las tres fases.



n = 6 conductores
S = 40 cm.
R=S=40 cm.
$d_{AB} = d_{BC} = 16.1$ m.
$d_{AC} = 32.2$ m.
h = 30.1 m.
F = 17 m.
r = 1.735 cm.
RMG = 32 cm.
RMG = 18.2 m = 1820 cm.
DMG = 20.28 m=2028 cm.
CALIBRE =1272 ACSR/AW; 1.755 cm.

Los resultados fueron:

$E_o = 20.54\ m\ \delta^{2/3}$ .....(5-10)

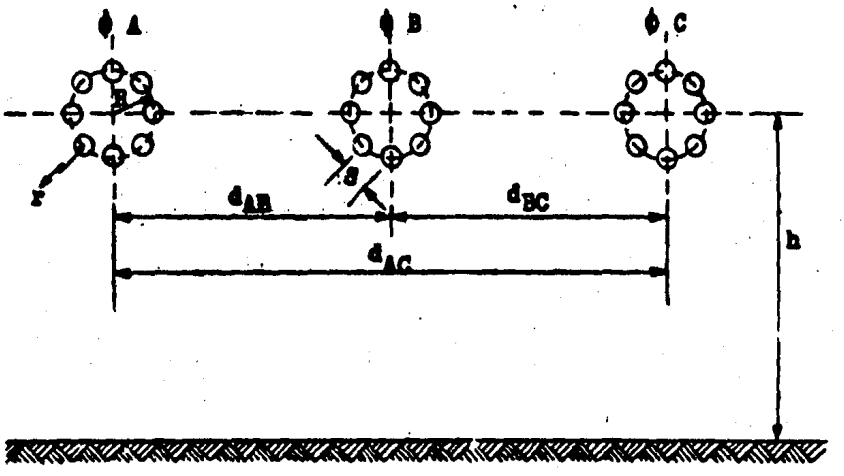
$V_o = 783.38\ m\ \delta^{2/3}$ .....(5-11)

$C.S. = \frac{V_o \sqrt{3}}{1,000}$ .....(5-12)

5.3.5 PARA UNA TENSION DE 1,300 KV.

Datos:

Arreglo de ocho conductores por fase dispuestos simétrica y horizontalmente las tres fases.



n = 8 conductores
S = 50 cm.
R = 1.31 S = 52.4 cm.
$d_{AB} = d_{BC} = 19$ m.
$d_{AC} = 38$ m.
h = 34 m.
F = 19 m.
r = 1.775 cm.
RMG = 44.61 cm.
HMG = 20.7 m. = 2070 cm.
DMG = 23.93 m. = 2393 cm.
CALIBRE = 1351.5 ACSR/AW; 1.8085 cm.

Los resultados fueron:

$$g_o = 19.86\ m\ \delta^{2/3} \quad \text{.....(5-13)}$$

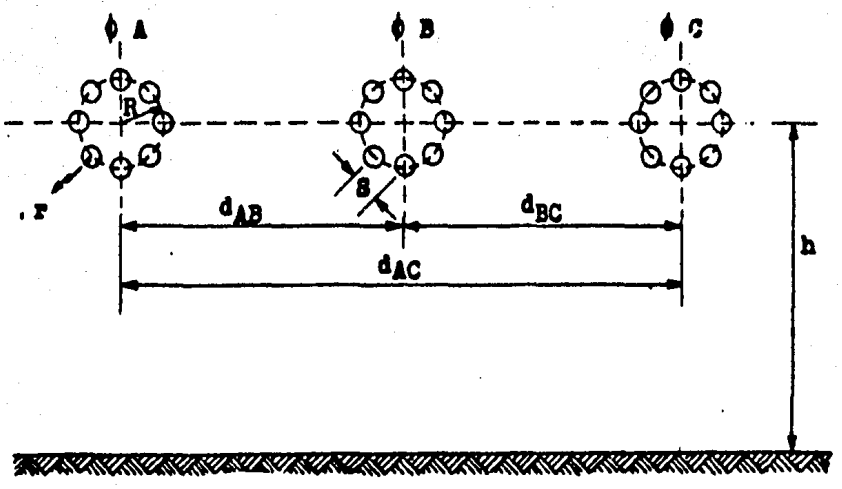
$$V = 986.11\ m\ \delta^{2/3} \quad \text{.....(5-14)}$$

$$C.S. = \frac{V_o \sqrt{3}}{1,300} \quad \text{.....(5-15)}$$

5.3.6 PARA UNA TENSION DE 1,500 KV.

Datos:

Arreglo de ocho conductores por fase dispuestos simétrica y horizontalmente las tres fases.



n = 8 conductores
S = 40 cm.
R = 1.31 S = 52.4 cm.
$d_{AB} = d_{BC} = 20.8$ m.
$d_{AC} = 41.6$ m.
h = 36.2 m.
F = 20 m.
r = 1.940 cm.
RMG = 45.07 cm.
HMG = 22.2 m. = 2,220 cm.
DMG = 26.20 m. = 2,620 cm.
CALIBRE = 1590.0 ACSR/AW; 1.962 cm.

Los resultados fueron:

$$g_o = 19.09\ m\ \delta^{2/3} \quad \text{.....(5-16)}$$

$$V_o = 1{,}046.37\ m\ \delta^{2/3} \quad \text{.....(5-17)}$$

$$C.S. = \frac{V_o \sqrt{3}}{1{,}500} \quad \text{.....(5-18)}$$

$m = m_1 \times m_2$ ( ) = ... ; G_o = ...

b = ... cm. Hg. ( );

δ = Densidad ... ; V_o = Tensión crítica ... ( )

t = °C

C.S = Coeficiente de Seguridad ( )

CONCENTRACION FINAL DE VALORES TABULADOS

m.s.n.m	b	δ	m= 0.9 T= -10° C 400 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	1.132	23.46	355.96	1.54	22.25	438.37	1.51
610	70.10	1.044	22.22	337.26	1.46	21.08	415.35	1.43
1220	65.00	0.970	21.16	321.13	1.39	20.08	395.48	1.37
1830	60.20	0.897	20.09	304.81	1.31	19.06	375.38	1.30
2440	55.90	0.833	19.12	290.13	1.25	18.14	357.31	1.23
3050	51.80	0.772	18.17	275.79	1.19	17.24	339.65	1.17
3660	48.00	0.715	17.27	262.04	1.13	16.38	322.71	1.11

m.s.n.m	b	δ	m= 0.9 T= -10° C 750 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	1.132	20.72	580.00	1.33	20.07	765.79	1.32
610	70.10	1.044	19.63	549.54	1.26	19.02	725.57	1.25
1220	65.00	0.970	18.69	523.25	1.20	18.11	690.87	1.19
1830	60.20	0.897	17.74	496.66	1.14	17.19	655.76	1.13
2440	55.90	0.833	16.89	472.75	1.09	16.36	624.18	1.08
3050	51.80	0.772	16.05	449.38	1.03	15.55	593.33	1.02
3660	48.00	0.715	15.25	426.98	0.98	14.78	563.75	0.97

m.s.n.m	b	δ	m= 0.9 T= -10° C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.132	19.42	963.97	1.28	18.66	1022.90	1.18
610	70.10	1.044	18.40	913.34	1.21	17.68	969.16	1.11
1220	65.00	0.970	17.52	869.66	1.15	16.83	922.80	1.06
1830	60.20	0.897	16.63	825.46	1.09	15.98	875.90	1.01
2440	55.90	0.833	15.83	785.72	1.04	15.21	833.73	0.96
3050	51.80	0.772	15.04	746.87	0.99	14.45	792.51	0.91
3660	48.00	0.715	14.29	709.64	0.94	13.73	753.01	0.86

NOTA: En todas las tablas de las páginas de la 69 a la 248, se han dividido con línea gruesa, los valores del coeficiente de seguridad (C.S.) mayores y menores que 1 para facilitar su consulta.

m = 0.9								
m.s.n.m	b	δ	T = -5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.111	23.17	351.54	1.52	21.98	432.93	1.49
610	701.0	1.025	21.95	333.16	1.44	20.83	410.29	1.42
1220	650.0	0.950	20.87	316.70	1.37	19.80	390.03	1.35
1830	600.2	0.880	19.83	300.95	1.30	18.81	370.63	1.28
2440	559.0	0.817	18.87	286.41	1.24	17.90	352.72	1.22
3050	521.8	0.757	17.94	272.21	1.17	17.02	335.23	1.16
3660	488.0	0.702	17.06	258.86	1.12	16.18	318.79	1.10

m = 0.9								
m.s.n.m	b	δ	T = -5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.111	20.46	572.81	1.32	19.82	756.29	1.30
610	701.0	1.025	19.39	542.85	1.25	18.79	716.74	1.24
1220	650.0	0.950	18.43	516.04	1.19	17.86	681.34	1.18
1830	600.2	0.880	17.52	490.37	1.13	16.97	647.45	1.12
2440	559.0	0.817	16.67	466.67	1.07	16.15	616.16	1.06
3050	521.8	0.757	15.84	443.54	1.02	15.35	585.62	1.01
3660	488.0	0.702	15.07	421.78	0.97	14.60	556.90	0.96

m = 0.9								
m.s.n.m	b	δ	T = -5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.111	19.18	952.01	1.26	18.42	1010.20	1.16
610	701.0	1.025	18.17	902.23	1.20	17.46	957.36	1.10
1220	650.0	0.950	17.28	857.66	1.14	16.60	910.07	1.05
1830	600.2	0.880	16.42	815.00	1.08	15.77	864.80	0.98
2440	559.0	0.817	15.62	775.62	1.03	15.01	823.02	0.95
3050	521.8	0.757	14.85	737.17	0.98	14.27	782.21	0.90
3660	488.0	0.702	14.12	701.01	0.93	13.57	743.85	0.85

m = 0.9									
m.s.n.m	b	δ	T = 0° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	1.091	22.89	347.31	1.50	21.71	427.72	1.48	
610	701.0	1.006	21.68	329.03	1.42	20.57	405.21	1.40	
1220	650.0	0.930	20.57	312.24	1.35	19.52	384.53	1.33	
1830	602.0	0.864	19.59	292.29	1.28	18.59	366.12	1.26	
2440	559.0	0.802	18.64	282.89	1.22	17.68	348.39	1.20	
3050	518.0	0.743	17.71	268.84	1.16	16.81	331.09	1.14	
3660	480.0	0.689	16.85	255.65	1.10	15.98	314.84	1.09	

m = 0.9									
m.s.n.m	b	δ	T = 0°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	760.0	1.091	20.22	565.91	1.30	19.59	747.19	1.29	
610	701.0	1.006	19.15	536.12	1.23	18.55	707.86	1.22	
1220	650.0	0.930	18.17	508.77	1.17	17.61	671.74	1.16	
1830	602.0	0.864	17.30	484.40	1.11	16.76	639.57	1.10	
2440	559.0	0.802	16.47	460.94	1.06	15.95	608.60	1.05	
3050	518.0	0.743	15.65	438.05	1.01	15.16	578.37	1.00	
3660	480.0	0.689	14.88	416.56	0.96	14.42	550.00	0.95	

m = 0.9									
m.s.n.m	b	δ	T = 0° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.091	18.95	940.55	1.25	18.20	998.03	1.15	
610	701.0	1.006	17.95	891.05	1.18	17.24	945.50	1.09	
1220	650.0	0.930	17.03	845.58	1.12	16.36	897.26	1.03	
1830	602.0	0.864	16.22	805.09	1.07	15.58	854.29	0.98	
2440	559.0	0.802	15.43	766.10	1.02	14.83	812.91	0.93	
3050	518.0	0.743	14.67	728.05	0.97	14.09	772.54	0.89	
3660	480.0	0.689	13.95	692.33	0.92	13.40	734.64	0.84	

m = 0.9									
m.s.n.m	b	δ	T = 5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo	C.S.	
0	76.00	1.071	22.61	343.05	1.48	21.45	422.48	1.46	
610	70.10	0.988	21.42	325.09	1.40	20.32	400.36	1.38	
1220	65.00	0.920	20.43	310.00	1.34	19.38	381.77	1.32	
1830	60.20	0.848	19.35	293.60	1.27	18.35	361.59	1.25	
2440	55.90	0.788	18.42	279.59	1.21	17.48	344.32	1.19	
3050	51.80	0.730	17.51	265.69	1.15	16.61	327.21	1.13	
3660	48.00	0.676	16.63	252.42	1.09	15.78	310.87	1.07	

m = 0.9									
m.s.n.m	b	δ	T = 5°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo	C.S.	
0	76.00	1.071	19.97	558.97	1.29	19.35	738.03	1.27	
610	70.10	0.988	18.92	529.71	1.22	18.33	699.39	1.21	
1220	65.00	0.920	18.04	505.12	1.16	17.48	666.92	1.15	
1830	60.20	0.848	17.09	478.41	1.10	16.56	631.65	1.09	
2440	55.90	0.788	16.27	455.56	1.05	15.77	601.50	1.04	
3050	51.80	0.730	15.46	432.93	0.99	14.98	571.61	0.99	
3660	48.00	0.676	14.69	411.30	0.94	14.23	543.06	0.94	

m = 0.9									
m.s.n.m	b	δ	T = 5°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	1.071	18.71	929.02	1.23	17.98	985.80	1.13	
610	70.10	0.988	17.73	880.38	1.17	17.04	934.18	1.07	
1220	65.00	0.920	16.91	839.51	1.11	16.25	890.81	1.02	
1830	60.20	0.848	16.02	795.12	1.05	15.39	843.71	0.97	
2440	55.90	0.788	15.25	757.16	1.00	14.65	803.43	0.92	
3050	51.80	0.730	14.49	719.53	0.95	13.92	763.50	0.88	
3660	48.00	0.676	13.77	682.60	0.91	13.23	725.37	0.83	

m= 0.9								
m.s.n.m	b	δ	T= 10°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.052	22.34	338.98	1.46	21.19	417.47	1.44
610	70.10	0.970	21.16	321.13	1.39	20.08	395.48	1.37
1220	65.00	0.900	20.13	305.49	1.32	19.10	376.22	1.30
1830	60.20	0.833	19.12	290.13	1.25	18.14	357.31	1.23
2440	55.90	0.774	17.73	269.08	1.16	16.82	331.38	1.14
3050	51.80	0.717	17.30	262.53	1.13	16.41	323.32	1.12
3660	48.00	0.664	16.43	249.43	1.08	15.59	307.18	1.06

m= 0.9								
m.s.n.m	b	δ	T=10°C					
			750 kV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	1.052	19.73	552.34	1.27	19.12	729.28	1.26
610	70.10	0.970	18.69	523.25	1.20	18.11	690.87	1.19
1220	65.00	0.900	17.78	497.77	1.14	17.23	657.22	1.13
1830	60.20	0.833	16.89	472.75	1.09	16.36	624.18	1.08
2440	55.90	0.774	15.66	438.44	1.01	15.17	578.89	1.00
3050	51.80	0.717	15.28	427.77	0.98	14.80	564.80	0.97
3660	48.00	0.664	14.52	406.42	0.93	14.06	536.61	0.92

m= 0.9								
m.s.n.m	b	δ	T= 10°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	1.052	18.49	918.00	1.22	17.71	974.10	1.12
610	70.10	0.970	17.52	869.66	1.15	16.83	922.80	1.06
1220	65.00	0.900	16.67	827.30	1.10	16.01	877.86	1.01
1830	60.20	0.833	15.83	785.72	1.04	15.21	833.73	0.96
2440	55.90	0.774	14.68	728.70	0.97	14.10	773.23	0.89
3050	51.80	0.717	14.32	710.97	0.94	13.76	754.41	0.87
3660	48.00	0.664	13.61	675.48	0.89	13.07	716.76	0.82

m.s.n.m	b	δ	m= 0.9 T=15°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	7600	1.034	22.08	335.10	1.45	20.95	412.69	1.42
610	7010	0.954	20.93	317.59	1.37	19.85	391.12	1.35
1220	6500	0.880	19.83	300.95	1.30	18.81	370.63	1.28
1830	6020	0.819	18.90	286.87	1.24	17.93	353.29	1.22
2440	5590	0.760	17.98	272.92	1.18	17.06	336.12	1.16
3050	5180	0.705	17.10	259.59	1.12	16.23	319.70	1.10
3660	4800	0.653	16.25	246.67	1.06	15.42	303.78	1.05

m.s.n.m	b	δ	m= 0.9 T=15°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	7600	1.034	19.51	546.02	1.26	18.90	720.93	1.24
610	7010	0.954	18.49	517.48	1.19	17.91	683.25	1.18
1220	6500	0.880	17.52	490.37	1.13	16.97	647.45	1.12
1830	6020	0.819	16.70	467.44	1.07	16.18	617.17	1.06
2440	5590	0.760	15.88	444.71	1.02	15.39	587.16	1.01
3050	5180	0.705	15.11	422.99	0.97	14.64	558.48	0.96
3660	4800	0.653	14.36	401.92	0.92	13.91	530.67	0.91

m.s.n.m	b	δ	m= 0.9 T=15°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	7600	1.034	18.28	907.50	1.20	17.56	962.96	1.11
610	7010	0.954	17.33	860.07	1.14	16.64	912.63	1.05
1220	6500	0.880	16.42	815.00	1.08	15.77	864.80	0.99
1830	6020	0.819	15.65	776.89	1.03	15.03	824.33	0.95
2440	5590	0.760	14.89	739.11	0.98	14.30	784.28	0.90
3050	5180	0.705	14.16	703.01	0.93	13.60	745.97	0.86
3660	4800	0.653	13.46	668.00	0.89	12.93	708.82	0.81

m = 0.9								
m.s.n.m	b	δ	T = 20°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C S	Go.	Vo	C.S.
0	760	1.016	21.92	331.20	1.43	20.71	407.89	1.41
610	701	0.937	20.68	313.80	1.35	19.62	386.46	1.33
1220	650	0.870	19.66	298.66	1.29	18.67	367.81	1.27
1830	602	0.805	18.69	283.59	1.22	17.73	349.26	1.20
2440	559	0.747	17.78	269.80	1.16	16.87	332.27	1.15
3050	518	0.693	16.91	256.64	1.11	16.04	316.06	1.09
3660	480	0.642	16.07	243.89	1.05	15.25	300.36	1.04

m = 0.9								
m.s.n.m	b	δ	T = 20°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	760	1.016	19.28	539.67	1.24	18.68	712.54	1.23
610	701	0.937	18.26	511.32	1.18	17.70	675.11	1.16
1220	650	0.870	17.38	486.64	1.12	16.84	642.53	1.11
1830	602	0.805	16.51	462.09	1.06	15.99	610.12	1.05
2440	559	0.747	15.70	439.62	1.01	15.21	580.45	1.00
3050	518	0.693	14.94	418.17	0.96	14.47	552.13	0.95
3660	480	0.642	14.19	397.40	0.91	13.75	524.69	0.90

m = 0.9								
m.s.n.m	b	δ	T = 20°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C.S.
0	760	1.016	18.07	896.94	1.19	17.36	951.75	1.09
610	701	0.937	17.12	849.32	1.13	16.45	901.75	1.04
1220	650	0.870	16.29	808.81	1.07	15.65	858.24	0.99
1830	602	0.805	15.47	768.01	1.02	14.86	814.94	0.94
2440	559	0.747	14.72	730.66	0.97	14.14	775.31	0.89
3050	518	0.693	14.00	695.01	0.92	13.45	737.48	0.85
3660	480	0.642	13.30	660.48	0.87	12.78	700.84	0.80

m = 0.9								
m.s.n.m	b	f	T = 25°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1115.5		
			Go.	Vo.	C.S.	Go.	Va	C.S.
0	760.0	1.000	21.60	327.72	1.41	20.49	403.60	1.39
610	701.0	0.922	20.46	310.45	1.34	19.41	382.33	1.32
1220	650.0	0.860	19.53	296.37	1.28	18.53	364.99	1.26
1830	602.0	0.791	18.47	280.30	1.21	17.52	345.20	1.19
2440	559.0	0.735	17.59	266.91	1.15	16.69	328.70	1.13
3050	518.0	0.681	16.71	253.67	1.09	15.86	312.40	1.08
3660	490.0	0.631	15.89	241.09	1.04	15.07	296.92	1.02

m = 0.9								
m.s.n.m	b	f	T = 25°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	760.0	1.000	19.08	533.99	1.23	18.48	705.04	1.22
610	701.0	0.922	18.07	505.85	1.16	17.51	667.89	1.15
1220	650.0	0.860	17.25	482.91	1.11	16.71	637.60	1.10
1830	602.0	0.791	16.31	456.72	1.05	15.81	603.02	1.04
2440	559.0	0.735	15.53	434.90	1.00	15.05	574.21	0.99
3050	518.0	0.681	14.76	413.33	0.95	14.30	545.73	0.94
3660	480.0	0.631	14.03	392.84	0.90	13.59	518.68	0.89

m = 0.9								
m.s.n.m	b	f	T = 25°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C.S.
0	760.0	1.000	17.88	887.50	1.18	17.18	941.73	1.08
610	701.0	0.922	16.94	840.73	1.12	16.27	892.10	1.03
1220	650.0	0.860	16.17	802.60	1.06	15.53	851.65	0.98
1830	602.0	0.791	15.29	759.08	1.01	14.69	805.46	0.93
2440	559.0	0.735	14.56	722.81	0.96	13.99	766.99	0.88
3050	518.0	0.681	13.84	686.96	0.91	13.29	728.94	0.84
3660	480.0	0.631	13.15	652.91	0.86	12.63	692.81	0.79

m = 0.9								
m.s.n.m	b	δ	T = 30°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S.	Go	Vo	C.S.
0	7600	0.983	21.35	323.99	1.40	20.26	399.01	1.38
610	7010	0.906	20.22	306.84	1.32	19.18	377.89	1.30
1220	6500	0.840	19.22	291.76	1.26	18.24	359.31	1.24
1830	6020	0.778	18.27	277.22	1.20	17.33	341.40	1.18
2440	5590	0.723	17.39	263.99	1.14	16.50	325.12	1.12
3050	5180	0.670	16.53	250.93	1.08	15.69	309.03	1.07
3660	4800	0.620	15.70	238.28	1.03	14.90	293.46	1.01

m = 0.9								
m.s.n.m	b	δ	T = 30°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go	Vo	C.S.
0	7600	0.983	18.86	527.92	1.21	18.27	697.03	1.20
610	7010	0.906	17.86	499.98	1.15	17.30	660.14	1.14
1220	6500	0.840	16.98	475.39	1.09	16.45	627.68	1.08
1830	6020	0.778	16.13	451.70	1.04	15.63	596.40	1.03
2440	5590	0.723	15.36	430.15	0.99	14.89	567.95	0.98
3050	5180	0.670	14.60	408.87	0.94	14.15	539.84	0.93
3660	4800	0.620	13.87	388.26	0.89	13.44	512.64	0.88

m = 0.9								
m.s.n.m	b	δ	T = 30°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C.S.
0	7600	0.983	17.67	877.41	1.16	16.98	931.03	1.07
610	7010	0.906	16.74	830.97	1.10	16.08	881.75	1.01
1220	6500	0.840	15.92	790.11	1.05	15.29	838.39	0.96
1830	6020	0.778	15.12	750.74	1.00	14.53	796.61	0.91
2440	5590	0.723	14.40	714.93	0.95	13.84	758.61	0.87
3050	5180	0.670	13.69	679.55	0.90	13.15	721.07	0.83
3660	4800	0.620	13.00	645.30	0.85	12.49	684.74	0.79

m = 0.9								
m.s.n.m	b	δ	T = 35 °C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.967	21.12	320.47	1.38	20.03	394.67	1.36
610	70.10	0.892	20.01	303.68	1.31	18.98	373.99	1.29
1220	65.00	0.830	19.07	289.44	1.25	18.09	356.45	1.23
1830	60.20	0.766	18.08	274.36	1.18	17.15	337.88	1.17
2440	55.90	0.711	17.20	261.06	1.13	16.32	321.51	1.11
3050	51.80	0.659	16.35	248.17	1.07	15.51	305.64	1.05
3660	48.00	0.610	15.53	235.71	1.02	14.73	290.29	1.00

m = 0.9								
m.s.n.m	b	δ	T = 35 °C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.967	18.65	522.17	1.20	18.07	689.44	1.19
610	70.10	0.892	17.68	494.81	1.14	17.12	653.32	1.13
1220	65.00	0.830	16.85	471.61	1.08	16.32	622.68	1.07
1830	60.20	0.766	15.97	447.05	1.03	15.47	590.25	1.02
2440	55.90	0.711	15.19	425.38	0.98	14.72	561.65	0.97
3050	51.80	0.659	14.44	404.38	0.93	13.99	533.92	0.92
3660	48.00	0.610	13.72	384.08	0.88	13.29	507.11	0.87

m = 0.9								
m.s.n.m	b	δ	T = 35 °C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.967	17.48	867.87	1.15	16.80	920.90	1.06
610	70.10	0.892	16.57	822.39	1.09	15.92	872.65	1.00
1220	65.00	0.830	15.79	783.83	1.04	15.17	831.73	0.96
1830	60.20	0.766	14.97	743.00	0.98	14.38	788.40	0.91
2440	55.90	0.711	14.24	706.99	0.94	13.68	750.20	0.86
3050	51.80	0.659	13.54	672.09	0.89	13.01	713.16	0.82
3660	48.00	0.610	12.86	638.35	0.85	12.35	677.35	0.76

m = 0.9								
m.s.n.m	b	δ	T = 40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	0.951	20.88	316.92	1.37	19.81	390.30	1.35
610	70.10	0.877	19.79	300.26	1.30	18.77	369.78	1.28
1220	65.00	0.810	18.76	284.77	1.23	17.80	350.70	1.21
1830	60.20	0.753	17.87	271.25	1.17	16.96	334.05	1.15
2440	55.90	0.700	17.02	258.36	1.11	16.15	318.19	1.10
3050	51.80	0.648	16.17	245.41	1.06	15.34	302.23	1.04
3660	48.00	0.601	15.38	233.39	1.01	14.59	287.43	0.99

m = 0.9								
m.s.n.m	b	δ	T = 40°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	76.00	0.951	18.45	516.40	1.19	17.87	681.82	1.18
610	70.10	0.877	17.48	489.25	1.12	16.93	645.97	1.11
1220	65.00	0.810	16.57	464.00	1.07	16.06	612.64	1.06
1830	60.20	0.753	15.79	441.97	1.02	15.30	583.55	1.01
2440	55.90	0.700	15.04	420.98	0.97	14.57	555.84	0.96
3050	51.80	0.648	14.28	399.87	0.92	13.84	527.96	0.91
3660	48.00	0.601	13.58	380.29	0.87	13.16	502.11	0.86

m = 0.9								
m.s.n.m	b	δ	T = 40°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.951	17.29	858.27	1.14	16.61	910.71	1.05
610	70.10	0.877	16.38	813.14	1.08	15.74	862.84	0.99
1220	65.00	0.810	15.53	771.18	1.02	14.92	818.31	0.94
1830	60.20	0.753	14.80	734.57	0.97	14.22	779.46	0.90
2440	55.90	0.700	14.09	699.68	0.93	13.54	742.44	0.85
3050	51.80	0.648	13.39	664.59	0.88	12.86	705.20	0.81
3660	48.00	0.601	12.73	632.05	0.84	12.23	670.68	0.77

m = 0,9								
m.s.n.m	b	δ	T = 45°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.936	20.66	313.58	1.35	19.60	386.19	1.33
610	70.10	0.864	19.59	297.29	1.28	18.59	366.12	1.26
1220	65.00	0.800	18.61	282.42	1.22	17.66	347.81	1.20
1830	60.20	0.742	17.70	268.60	1.16	16.79	330.79	1.14
2440	55.90	0.689	16.85	255.65	1.10	15.98	314.84	1.09
3050	51.80	0.638	16.00	242.87	1.05	15.18	299.11	1.03
3660	48.00	0.591	15.21	230.79	0.99	14.43	284.23	0.98

m = 0.9								
m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.936	18.25	510.95	1.18	17.68	674.63	1.16
610	70.10	0.864	17.30	484.40	1.11	16.76	639.57	1.10
1220	65.00	0.800	16.44	460.18	1.06	15.93	607.59	1.05
1830	60.20	0.742	15.63	437.66	1.01	15.15	577.85	1.00
2440	55.90	0.689	14.88	416.56	0.96	14.42	550.00	0.95
3050	51.80	0.638	14.14	395.74	0.91	13.70	522.51	0.90
3660	48.00	0.591	13.43	376.06	0.86	13.01	496.53	0.86

m = 0.9								
m.s.n.m	b	δ	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.936	17.11	849.22	1.13	16.43	901.11	1.04
610	70.10	0.864	16.22	805.09	1.07	15.58	854.29	0.98
1220	65.00	0.800	15.41	764.82	1.01	14.80	811.56	0.93
1830	60.20	0.742	14.65	727.40	0.96	14.08	771.85	0.89
2440	55.90	0.689	13.95	692.33	0.92	13.40	734.64	0.84
3050	51.80	0.638	13.25	657.73	0.87	12.73	697.93	0.80
3660	48.00	0.591	12.59	625.02	0.83	12.09	663.21	0.76

m = 0.9								
m.s.n.m	b	δ	T = 50°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	760.0	0.922	20.46	310.45	1.34	19.41	382.33	1.32
610	701.0	0.850	19.38	294.07	1.27	18.38	362.15	1.25
1220	650.0	0.790	18.45	280.06	1.21	17.51	344.90	1.19
1830	602.0	0.730	17.51	265.69	1.15	16.61	327.21	1.13
2440	559.0	0.678	16.67	252.92	1.09	15.81	311.48	1.07
3050	518.0	0.628	15.84	240.33	1.04	15.02	295.97	1.02
3660	480.0	0.582	15.05	228.45	0.98	14.28	281.34	0.97

m = 0.9								
m.s.n.m	b	δ	T = 50°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.922	18.07	505.85	1.16	17.51	667.89	1.15
610	701.0	0.850	17.12	479.16	1.10	16.58	632.65	1.09
1220	650.0	0.790	16.30	456.33	1.05	15.79	602.51	1.04
1930	602.0	0.730	15.46	432.93	0.99	14.98	571.61	0.99
2440	559.0	0.678	14.72	412.12	0.95	14.26	544.13	0.94
3050	518.0	0.628	13.99	391.60	0.90	13.55	517.04	0.89
3660	480.0	0.582	13.30	372.23	0.85	12.88	491.47	0.85

m = 0.9								
m.s.n.m	b	δ	T = 50					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.922	16.94	840.73	1.12	16.27	892.10	1.03
610	701.0	0.850	16.04	796.37	1.06	15.41	845.03	0.97
1220	650.0	0.790	15.28	758.44	1.01	14.68	804.78	0.92
1830	602.0	0.730	14.49	719.53	0.95	13.92	763.50	0.88
2440	559.0	0.678	13.80	684.94	0.91	13.25	726.80	0.83
3050	518.0	0.628	13.11	650.84	0.86	12.59	690.61	0.79
3660	480.0	0.582	12.46	618.66	0.82	11.97	656.46	0.75

m= 0.9								
m.s.n.m	b	δ	T=55°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.908	20.25	307.30	1.33	19.21	378.45	1.31
610	70.10	0.837	19.18	291.06	1.26	18.20	358.45	1.24
1.220	65.00	0.780	18.30	277.69	1.20	17.36	341.99	1.18
1830	60.20	0.719	17.33	263.02	1.13	16.44	323.92	1.12
2440	55.90	0.668	16.50	250.43	1.08	15.65	308.41	1.06
3050	51.80	0.619	15.68	238.03	1.03	14.88	293.14	1.01
3660	48.00	0.573	14.90	226.08	0.97	14.13	278.43	0.96

m= 0.9								
m.s.n.m	b	δ	T=55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	7600	0.908	17.89	500.71	1.15	17.33	661.11	1.14
610	7010	0.837	16.94	474.26	1.09	16.41	626.18	1.08
1220	6500	0.780	16.16	452.48	1.04	15.66	597.42	1.03
1830	6020	0.719	15.31	428.57	0.98	14.83	565.85	0.98
2440	5590	0.668	14.58	408.05	0.94	14.12	538.77	0.93
3050	5180	0.619	13.85	387.85	0.89	13.42	512.09	0.88
3660	4800	0.573	13.16	368.39	0.85	12.75	486.39	0.84

m= 0.9								
m.s.n.m	b	δ	T=55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.908	16.76	832.20	1.10	16.11	883.05	1.01
610	70.10	0.837	15.88	788.23	1.05	15.25	836.40	0.96
1220	65.00	0.780	15.15	752.02	1.00	14.55	797.98	0.92
1830	60.20	0.719	14.35	712.29	0.94	13.78	755.81	0.87
2440	55.90	0.668	13.66	678.19	0.90	13.12	719.64	0.83
3050	51.80	0.619	12.98	644.61	0.85	12.47	684.00	0.78
3660	48.00	0.573	12.33	612.26	0.81	11.85	649.68	0.75

m.s.n.m	b	f	m= 0,9 T= 60°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	0.894	20,04	304,13	1,31	19,01	374,55	1.29
610	70.10	0.825	19.00	288.27	1.24	18.02	355.02	1.22
1220	65.00	0.770	18.14	275.31	1.19	17.21	339.06	1.17
1830	60.20	0.708	17.15	260.33	1.12	16.27	320.60	1.11
2440	55.90	0.658	16.34	247.92	1.07	15.50	305.33	1.05
3050	51.80	0.609	15.51	235.46	1.01	14.72	289.97	1.00
3660	48.00	0.565	14.76	223.98	0.96	14.00	275.83	0.95

m.s.n.m	b	f	m= 0,9 T= 60°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	76.00	0.894	17.70	495.55	1.14	17.15	654.30	1.13
610	70.10	0.825	16.78	469.72	1.08	16.26	620.18	1.07
1220	65.00	0.770	16.02	448.60	1.03	15.52	592.30	1.02
1830	60.20	0.708	15.15	424.18	0.97	14.68	560.06	0.97
2440	55.90	0.658	14.43	403.97	0.93	13.98	533.38	0.92
3050	51.90	0.609	13.70	383.66	0.88	13.28	506.56	0.87
3660	48.00	0.565	13.04	364.95	0.84	12.63	481.85	0.83

m.s.n.m	b	f	m= 0,9 T= 60° C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.894	16.59	823.62	1.09	15.94	873.95	1.00
610	70.10	0.825	15.73	780.68	1.04	15.11	828.38	0.95
1220	65.00	0.770	15.02	745.58	0.99	14.43	791.14	0.91
1830	60.20	0.708	14.20	705.00	0.93	13.64	748.09	0.86
2440	55.90	0.658	13.52	671.41	0.89	12.99	712.44	0.82
3050	51.90	0.609	12.84	637.65	0.84	12.34	676.61	0.78
3660	48.00	0.565	12.22	606.55	0.80	11.74	643.62	0.74

m = 0.81									
msnm	b	δ	T = -10° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo.	C.S.	
0	760.0	1.132	21.15	320.36	1.38	20.03	394.54	1.36	
610	701.0	1.044	20.00	303.53	1.31	18.98	373.81	1.29	
1220	650.0	0.970	19.04	289.02	1.25	18.07	355.93	1.23	
1830	602.0	0.897	18.08	274.33	1.18	17.15	337.85	1.17	
2440	559.0	0.833	17.21	261.12	1.13	16.32	321.58	1.11	
3050	518.0	0.772	16.35	248.21	1.07	15.52	305.68	1.05	
3660	480.0	0.715	15.54	235.84	1.02	14.74	290.44	1.00	

m = 0.81									
msnm	b	δ	T = -10° C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go	Vo.	C.S.	
0	760.0	1.132	18.65	522.00	1.20	18.07	689.22	1.19	
610	701.0	1.044	17.67	494.58	1.14	17.12	653.02	1.13	
1220	650.0	0.970	16.82	470.93	1.08	16.30	621.78	1.07	
1830	602.0	0.897	15.97	446.99	1.03	15.47	590.18	1.02	
2440	559.0	0.833	15.20	425.47	0.98	14.72	561.77	0.97	
3050	518.0	0.772	14.45	404.44	0.93	14.00	533.99	0.92	
3660	480.0	0.715	13.73	384.28	0.88	13.30	507.38	0.87	

m = 0.81									
msnm	b	δ	T = -10° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.132	17.48	867.58	1.15	16.79	920.59	1.06	
610	701.0	1.044	16.56	822.01	1.09	15.91	872.24	1.00	
1220	650.0	0.970	15.77	782.69	1.04	15.15	830.52	0.95	
1830	602.0	0.897	14.96	742.91	0.98	14.38	788.31	0.91	
2440	559.0	0.833	14.24	707.14	0.94	13.68	750.36	0.86	
3050	518.0	0.772	13.54	672.19	0.89	13.01	713.26	0.82	
3660	480.0	0.715	12.86	638.68	0.85	12.36	677.71	0.78	

m = 0.81									
m.s.n.m	b	δ	T = -5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go	Vo.	C.S.	Go.	Vo	C.S.	
0	760.0	1.111	20.85	316.39	1.37	19.78	389.64	1.34	
610	701.0	1.025	19.76	299.84	1.29	18.74	369.27	1.27	
1220	650.0	0.950	18.78	285.03	1.23	17.82	351.03	1.21	
1830	602.0	0.880	17.85	270.85	1.17	16.93	333.56	1.15	
2440	559.0	0.817	16.98	257.76	1.11	16.11	317.45	1.09	
3050	518.0	0.757	16.14	244.99	1.06	15.31	301.71	1.04	
3660	480.0	0.702	15.35	232.97	1.00	14.56	286.91	0.99	

m = 0.81									
m.s.n.m	b	δ	T = -5°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	760.0	1.111	16.42	515.53	1.19	17.84	680.66	1.17	
610	701.0	1.025	17.45	488.57	1.12	16.91	645.07	1.11	
1220	650.0	0.950	16.59	464.43	1.07	16.07	613.21	1.06	
1830	602.0	0.880	15.76	441.33	1.01	15.27	582.70	1.00	
2440	559.0	0.817	15.00	420.01	0.96	14.54	554.55	0.96	
3050	518.0	0.757	14.26	399.18	0.92	13.81	527.05	0.91	
3660	480.0	0.702	13.56	379.61	0.87	13.14	501.21	0.86	

m = 0.81									
m.s.n.m	b	δ	T = -5°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vc.	CS	Go.	Vo.	C.S.	
0	760.0	1.111	17.26	856.81	1.14	16.58	909.17	1.04	
610	701.0	1.025	16.36	812.01	1.08	15.71	861.63	0.99	
1220	650.0	0.950	15.55	771.90	1.02	14.94	819.07	0.94	
1830	602.0	0.880	14.77	733.50	0.97	14.19	778.32	0.89	
2440	559.0	0.817	14.06	698.06	0.93	13.51	740.72	0.85	
3050	518.0	0.757	13.36	663.45	0.88	12.84	703.99	0.81	
3660	480.0	0.702	12.71	630.91	0.84	12.21	669.47	0.77	

m= 0.81

m.s.n.m	b	δ	T= 0°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	1.091	20.60	312.58	1.35	19.54	384.95	1.33
610	70.10	1.006	19.51	296.12	1.28	18.51	364.69	1.26
1220	65.00	0.930	18.52	281.02	1.21	17.57	346.08	1.19
1830	60.20	0.864	17.63	267.56	1.15	16.73	329.51	1.14
2440	55.90	0.802	16.78	254.60	1.10	15.92	313.55	1.08
3050	51.80	0.743	15.94	241.96	1.04	15.13	297.98	1.03
3660	48.00	0.689	15.16	230.09	0.99	14.38	283.36	0.98

m= 0.81

m.s.n.m	b	δ	T= 0°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.091	18.19	509.32	1.17	17.63	672.47	1.16
610	70.10	1.006	17.24	482.51	1.11	16.70	637.07	1.10
1220	65.00	0.930	16.36	457.89	1.05	15.85	604.57	1.04
1830	60.20	0.864	15.57	435.96	1.00	15.09	575.62	0.99
2440	55.90	0.802	14.82	414.85	0.95	14.36	547.74	0.94
3050	51.80	0.743	14.08	394.25	0.91	13.64	520.54	0.90
3660	48.00	0.689	13.39	374.91	0.86	12.97	495.00	0.85

m= 0.81

m.s.n.m	b	δ	T= 0°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.091	17.05	846.50	1.12	16.38	898.23	1.03
610	70.10	1.006	16.15	801.94	1.06	15.52	850.95	0.98
1220	65.00	0.930	15.33	761.03	1.01	14.73	807.53	0.93
1830	60.20	0.864	14.60	724.58	0.96	14.02	768.86	0.88
2440	55.90	0.802	13.89	689.49	0.91	13.34	731.62	0.84
3050	51.80	0.743	13.20	655.25	0.87	12.68	695.29	0.80
3660	48.00	0.689	12.55	623.10	0.83	12.06	661.18	0.76

m = 0.81								
m.s.n.m	b	f	T = 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.071	20.34	308.75	1.33	19.30	380.23	1.31
610	70.10	0.988	19.28	292.58	1.26	18.29	360.32	1.24
1220	65.00	0.920	18.38	279.00	1.20	17.44	343.60	1.19
1830	60.20	0.848	17.41	264.24	1.14	16.52	325.43	1.12
2440	55.90	0.788	16.58	251.63	1.08	15.73	309.89	1.07
3050	51.80	0.730	15.76	239.12	1.03	14.95	294.49	1.02
3660	48.00	0.676	14.97	227.18	0.98	14.20	279.78	0.96

m = 0.81								
m.s.n.m	b	f	T = 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	76.00	1.071	17.97	503.08	1.16	17.41	664.23	1.15
610	70.10	0.988	17.03	476.74	1.10	16.50	629.45	1.09
1220	65.00	0.920	16.24	454.60	1.04	15.73	600.23	1.03
1830	60.20	0.848	15.38	430.56	0.99	14.90	568.49	0.98
2440	55.90	0.788	14.65	410.01	0.94	14.19	541.35	0.93
3050	51.80	0.730	13.92	389.63	0.89	13.48	514.45	0.89
3660	48.00	0.676	13.22	370.17	0.85	12.81	488.75	0.84

m = 0.81								
m.s.n.m	b	f	T = 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.071	16.84	836.12	1.11	16.18	887.22	1.02
610	70.10	0.988	15.96	792.35	1.05	15.33	840.77	0.97
1220	65.00	0.920	15.22	755.56	1.00	14.62	801.73	0.92
1830	60.20	0.848	14.41	715.61	0.95	13.85	759.34	0.87
2440	55.90	0.788	13.73	681.44	0.90	13.19	723.08	0.83
3050	51.80	0.730	13.04	647.58	0.86	12.53	687.15	0.79
3660	48.00	0.676	12.39	615.24	0.81	11.91	652.83	0.75

m.s.n.m	b	δ	m= 0.81 T= 10°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	1.052	20.10	305.08	1.32	19.07	375.72	1.30
610	70.10	0.970	19.04	289.02	1.25	18.07	355.93	1.23
1220	65.00	0.900	18.12	274.94	1.19	17.19	338.60	1.17
1830	60.20	0.833	17.21	261.12	1.13	16.32	321.58	1.11
2440	55.90	0.774	15.96	242.17	1.04	15.14	298.24	1.03
3050	51.80	0.717	15.57	236.28	1.02	14.77	290.98	1.00
3660	48.00	0.664	14.79	224.49	0.97	14.03	279.46	0.95

m.s.n.m	b	δ	m= 0.81 T= 10°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	1.052	17.76	497.11	1.14	17.20	656.35	1.13
610	70.10	0.970	16.82	470.93	1.08	16.30	621.78	1.07
1220	65.00	0.900	16.00	447.99	1.03	15.50	591.50	1.02
1830	60.20	0.833	15.20	425.47	0.98	14.72	561.77	0.97
2440	55.90	0.774	14.09	394.60	0.91	13.66	521.00	0.90
3050	51.90	0.717	13.75	384.99	0.88	13.32	508.32	0.88
3660	48.00	0.664	13.06	365.78	0.84	12.66	482.95	0.83

m.s.n.m	b	δ	m= 0,81 T= 10°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.052	16.64	826.20	1.10	15.99	876.69	1.01
610	70.10	0.970	15.77	782.69	1.04	15.15	830.52	0.95
1220	65.00	0.900	15.00	744.57	0.99	14.41	790.07	0.91
1830	60.20	0.833	14.24	707.14	0.94	13.68	750.36	0.86
2440	55.90	0.774	13.21	655.83	0.87	12.69	695.91	0.80
3050	51.80	0.717	12.89	639.87	0.85	12.38	678.97	0.78
3660	48.00	0.664	12.24	607.93	0.80	11.76	645.08	0.74

m= 0.81									
m.s.n.m	b	δ	T= 15°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C S	Go.	Vo	C.S.	
0	760.0	1.034	19.87	301.59	1.30	18.85	371.42	1.28	
610	701.0	0.954	18.83	285.83	1.23	17.87	352.01	1.21	
1220	650.0	0.880	17.85	270.85	1.17	16.93	333.56	1.15	
1830	602.0	0.819	17.01	258.19	1.11	16.14	317.96	1.10	
2440	559.0	0.760	16.18	245.63	1.06	15.36	302.50	1.04	
3050	518.0	0.705	15.39	233.63	1.01	14.60	287.73	0.99	
3660	480.0	0.653	14.63	222.00	0.96	13.88	273.40	0.94	

m= 0.81									
m.s.n.m	b	δ	T= 15°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C S	Go.	Ve	C.S.	
0	760.0	1.034	17.55	491.42	1.13	17.01	648.84	1.12	
610	701.0	0.954	16.64	465.74	1.07	16.12	614.93	1.06	
1220	650.0	0.880	15.76	441.33	1.01	15.27	582.70	1.00	
1830	602.0	0.819	15.03	420.69	0.97	14.56	555.45	0.96	
2440	559.0	0.760	14.30	400.24	0.92	13.85	528.45	0.91	
3050	518.0	0.705	13.60	380.69	0.87	13.17	502.63	0.87	
3660	480.0	0.653	12.92	361.73	0.83	12.52	477.60	0.82	

m= 0.81									
m.s.n.m	b	δ	T= 15°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo	C.S.	
0	760.0	1.034	16.45	816.75	1.08	15.81	866.66	1.00	
610	701.0	0.954	15.59	774.06	1.03	14.98	821.36	0.94	
1220	650.0	0.880	14.77	733.50	0.97	14.19	778.32	0.89	
1830	602.0	0.819	14.08	699.20	0.93	13.53	741.93	0.85	
2440	559.0	0.760	13.40	665.20	0.88	12.87	705.85	0.81	
3050	518.0	0.705	12.74	632.71	0.84	12.24	671.37	0.77	
3660	480.0	0.653	12.11	601.20	0.80	11.63	637.94	0.73	

m = 0.81									
m.s.n.m	b	δ	T = 20°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo		C.S.
0	760.0	1.016	19.64	298.08	1.29	18.63	367.10		1.27
610	701.0	0.937	18.61	282.42	1.22	17.66	347.82		1.20
1220	650.0	0.870	17.71	268.80	1.16	16.80	331.06		1.14
1830	602.0	0.805	16.82	255.23	1.10	15.96	314.33		1.08
2440	559.0	0.747	16.00	242.82	1.05	15.18	299.05		1.03
3050	518.0	0.693	15.22	230.97	1.00	14.44	284.45		0.98
3660	480.0	0.642	14.46	219.50	0.95	13.72	270.32		0.93

m = 0.81								
m.s.n.m	b	δ	T = 20°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.016	17.35	485.70	1.12	16.81	641.29	1.11
610	701.0	0.937	16.44	460.19	1.06	15.93	607.60	1.05
1220	650.0	0.870	15.64	437.98	1.01	15.16	578.28	1.00
1830	602.0	0.805	14.85	415.88	0.96	14.39	549.10	0.95
2440	559.0	0.747	14.13	395.66	0.91	13.69	522.40	0.90
3050	518.0	0.693	13.44	376.35	0.86	13.02	496.91	0.86
3660	480.0	0.642	12.77	357.66	0.82	12.38	472.22	0.81

m = 0.81								
m.s.n.m	b	δ	T = 20°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.016	16.26	807.25	1.07	15.62	856.58	0.98
610	701.0	0.937	15.41	764.84	1.01	14.80	811.58	0.93
1220	650.0	0.870	14.66	727.93	0.96	14.09	772.41	0.89
1830	602.0	0.805	13.92	691.21	0.92	13.38	733.45	0.84
2440	559.0	0.747	13.25	657.59	0.87	12.73	697.78	0.80
3050	518.0	0.693	12.60	625.51	0.83	12.10	663.73	0.76
3660	480.0	0.642	11.97	594.43	0.79	11.50	630.76	0.72

m = 0.81								
m.s.n.m	b	f	T = 25°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	760.0	1.000	19.44	294.95	1.27	18.44	363.24	1.25
610	701.0	0.922	18.41	279.40	1.20	17.47	344.09	1.19
1220	650.0	0.860	17.58	266.73	1.15	16.67	328.49	1.13
1830	602.0	0.791	16.62	252.27	1.09	15.77	310.68	1.07
2440	559.0	0.735	15.83	240.22	1.04	15.02	295.83	1.02
3050	518.0	0.681	15.04	228.30	0.98	14.27	281.16	0.97
3660	480.0	0.631	14.30	216.98	0.93	13.56	267.22	0.92

m = 0.81								
m.s.n.m	b	f	T = 25°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	760.0	1.000	17.17	480.59	1.10	16.63	634.54	1.09
610	701.0	0.922	16.26	455.26	1.05	15.76	601.10	1.04
1220	650.0	0.860	15.52	434.62	1.00	15.04	573.84	0.99
1830	602.0	0.791	14.68	411.05	0.94	14.22	542.72	0.94
2440	559.0	0.735	13.98	391.41	0.90	13.55	516.79	0.89
3050	518.0	0.681	13.29	372.00	0.85	12.87	491.16	0.85
3660	480.0	0.631	12.63	353.56	0.81	12.23	466.82	0.80

m = 0.81								
m.s.n.m	b	f	T = 25°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C.S.
0	760.0	1.000	16.09	798.75	1.06	15.46	847.56	0.97
610	701.0	0.922	15.24	756.65	1.00	14.64	802.89	0.92
1220	650.0	0.860	14.55	722.34	0.96	13.98	766.48	0.88
1830	602.0	0.791	13.76	683.17	0.91	13.22	724.92	0.83
2440	559.0	0.735	13.10	650.53	0.86	12.59	690.29	0.79
3050	518.0	0.681	12.45	618.27	0.82	11.96	656.05	0.75
3660	480.0	0.631	11.84	587.62	0.78	11.37	623.53	0.71

m = 0.81								
m.s.n.m	b	δ	T = 30° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	0.983	19.21	291.59	1.26	18.23	359.11	1.24
610	701.0	0.906	18.20	276.16	1.19	17.26	340.10	1.17
1220	650.0	0.840	17.30	262.58	1.13	16.41	323.38	1.12
1830	602.0	0.778	16.44	249.50	1.08	15.60	307.26	1.06
2440	559.0	0.723	15.65	237.59	1.02	14.85	292.61	1.01
3050	518.0	0.670	14.88	225.84	0.97	14.12	278.13	0.96
3660	490.0	0.620	14.13	214.46	0.92	13.41	264.11	0.91

m = 0.81								
m.s.n.m	b	δ	T = 30° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	0.983	16.97	475.13	1.09	16.44	627.33	1.08
610	701.0	0.906	16.07	449.98	1.03	15.57	594.12	1.02
1220	650.0	0.840	15.28	427.85	0.98	14.81	564.91	0.97
1830	602.0	0.778	14.52	406.53	0.93	14.07	536.76	0.92
2440	559.0	0.723	13.83	387.14	0.89	13.40	511.15	0.88
3050	518.0	0.670	13.14	367.98	0.84	12.73	485.86	0.84
3660	480.0	0.620	12.48	349.44	0.80	12.09	461.37	0.79

m = 0.81								
m.s.n.m	b	δ	T = 30° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.983	15.91	789.67	1.05	15.28	837.93	0.96
610	701.0	0.906	15.06	747.88	0.99	14.47	793.58	0.91
1220	650.0	0.840	14.32	711.10	0.94	13.76	754.55	0.87
1830	602.0	0.778	13.61	675.66	0.90	13.08	716.95	0.82
2440	559.0	0.723	12.96	643.43	0.85	12.45	682.75	0.78
3050	518.0	0.670	12.32	611.59	0.81	11.83	648.97	0.74
3660	480.0	0.620	11.70	580.77	0.77	11.24	616.26	0.71

m = 0.81

m.s.n.m	b	δ	T=35°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	0.967	19.00	288.42	1.24	18.03	355.20	1.23
610	70.10	0.892	18.01	273.31	1.18	17.09	336.59	1.16
1220	65.00	0.830	17.16	260.49	1.12	16.28	320.81	1.11
1830	60.20	0.766	16.27	246.92	1.06	15.44	304.10	1.05
2440	55.90	0.711	15.48	234.96	1.01	14.69	289.36	1.00
3050	51.80	0.659	14.72	223.36	0.96	13.96	275.07	0.95
3660	48.00	0.610	13.98	212.14	0.91	13.26	261.26	0.90

m = 0.81

m.s.n.m	b	δ	T=35°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	0.967	16.79	469.96	1.08	16.26	620.50	1.07
610	70.10	0.892	15.91	445.33	1.02	15.41	587.99	1.01
1220	65.00	0.830	15.16	124.45	0.98	14.69	560.42	0.97
1830	60.20	0.766	14.37	402.34	0.92	13.92	531.22	0.92
2440	55.90	0.711	13.67	382.84	0.88	13.25	505.48	0.87
3050	51.80	0.659	13.00	363.94	0.84	12.59	480.52	0.83
3660	48.00	0.610	12.35	345.67	0.79	11.96	456.40	0.79

m = 0.81

m.s.n.m	b	δ	T=35°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.967	15.73	781.08	1.04	15.12	828.81	0.95
610	70.10	0.892	14.91	740.15	0.98	14.32	785.38	0.90
1220	65.00	0.830	14.21	705.44	0.93	13.65	748.55	0.86
1830	60.20	0.766	13.47	668.70	0.89	12.94	709.56	0.81
2440	55.90	0.711	12.82	636.29	0.84	12.31	675.18	0.77
3050	51.80	0.659	12.18	604.88	0.80	11.70	641.84	0.74
3660	48.00	0.610	11.57	574.51	0.76	11.12	609.62	0.70

m = 0.81								
m.s.n.m	b	δ	T = 40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S	Go	Vo	C.S.
0	76.00	0.951	18.79	285.23	1.23	17.83	351.27	1.21
610	70.10	0.877	17.81	270.23	1.17	16.89	332.80	1.15
1220	65.00	0.810	16.89	256.29	1.10	16.02	315.63	1.09
1830	60.20	0.753	16.09	244.12	1.05	15.26	300.64	1.04
2440	55.90	0.700	15.32	232.53	1.00	14.54	286.37	0.99
3050	51.80	0.648	14.55	220.86	0.95	13.81	272.00	0.94
3660	48.00	0.601	13.84	210.05	0.90	13.13	258.69	0.89

m = 0.81								
m.s.n.m	b	δ	T = 40° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo	C S	Go.	Vo.	C.S.
0	76.00	0.951	16.60	464.76	1.07	16.08	613.64	1.06
610	70.10	0.877	15.73	440.33	1.01	15.24	581.38	1.00
1220	65.00	0.810	14.92	417.60	0.96	14.45	551.38	0.95
1830	60.20	0.753	14.21	397.78	0.91	13.77	525.20	0.90
2440	55.90	0.700	13.53	378.88	0.87	13.11	500.25	0.86
3050	51.80	0.648	12.85	359.88	0.83	12.45	475.16	0.82
3660	48.00	0.601	12.22	342.26	0.79	11.84	451.90	0.78

m = 0.81								
m.s.n.m	b	δ	T = 40°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.951	15.56	772.44	1.02	14.95	819.64	0.94
610	70.10	0.877	14.74	731.83	0.97	14.16	776.55	0.89
1220	65.00	0.810	13.98	694.07	0.92	13.43	736.48	0.85
1830	60.20	0.753	13.32	661.11	0.88	12.79	701.51	0.81
2440	55.90	0.700	12.68	629.71	0.83	12.19	668.20	0.77
3050	51.80	0.648	12.05	598.13	0.79	11.57	634.68	0.73
3660	48.00	0.601	11.46	568.85	0.75	11.01	603.61	0.69

m.s.n.m	b	δ	m= 0.81 T=45°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	760.0	0.936	18.60	282.22	1.22	17.64	347.57	1.20
610	701.0	0.864	17.63	267.56	1.15	16.73	329.51	1.14
1220	650.0	0.800	16.75	254.18	1.10	15.89	313.03	1.08
1830	600.2	0.742	15.93	241.74	1.04	15.11	297.71	1.03
2440	559.0	0.689	15.16	230.09	0.99	14.38	283.30	0.98
3050	518.0	0.638	14.40	218.59	0.94	13.66	269.20	0.93
3660	490.0	0.591	13.69	207.72	0.89	12.98	255.81	0.88

m.s.n.m	b	δ	m= 0.81 T= 45°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S.	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	760.0	0.936	16.43	459.86	1.06	15.91	607.17	1.05
610	701.0	0.864	15.57	435.96	1.00	15.09	575.62	0.99
1220	650.0	0.800	14.79	414.16	0.95	14.33	546.83	0.94
1830	600.2	0.742	14.07	393.89	0.90	13.63	520.07	0.90
2440	559.0	0.689	13.39	374.91	0.86	12.97	495.00	0.85
3050	518.0	0.638	12.72	356.17	0.82	12.33	470.26	0.81
3660	480.0	0.591	12.09	338.45	0.78	11.71	446.87	0.77

m.s.n.m	b	δ	m= 0.81 T=45°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	0.936	15.40	764.30	1.01	14.79	811.00	0.93
610	701.0	0.864	14.60	724.58	0.96	14.02	768.86	0.88
1220	650.0	0.800	13.87	688.34	0.91	13.32	730.41	0.84
1830	600.2	0.742	13.19	654.66	0.87	12.67	694.66	0.80
2440	559.0	0.689	12.55	623.10	0.83	12.06	661.18	0.76
3050	518.0	0.638	11.92	591.96	0.78	11.45	628.13	0.72
3660	480.0	0.591	11.13	562.52	0.74	10.88	596.89	0.68

m = 0.81								
m.s.n.m	b	δ	T = 50°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	0.922	18.41	279.40	1.20	17.47	344.09	1.19
610	70.10	0.850	17.44	264.66	1.14	16.54	325.94	1.12
1220	65.00	0.790	16.61	252.05	1.09	15.76	310.41	1.07
1830	60.20	0.730	15.76	239.12	1.03	14.95	294.49	1.02
2440	55.90	0.678	15.00	227.63	0.98	14.23	280.33	0.97
3050	51.80	0.628	14.25	216.30	0.93	13.52	266.38	0.92
3660	48.00	0.582	13.65	205.60	0.89	12.85	253.21	0.87

m = 0.81								
m.s.n.m	b	δ	T = 50°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.922	16.26	455.26	1.04	15.76	601.10	1.04
610	70.10	0.850	15.40	431.24	0.99	14.92	569.38	0.98
1220	65.00	0.790	14.67	410.70	0.94	14.21	542.26	0.93
1830	60.20	0.730	13.92	389.63	0.89	13.48	514.45	0.89
2440	55.90	0.678	13.25	370.90	0.85	12.84	489.72	0.84
3050	51.80	0.628	12.59	352.44	0.81	12.20	465.33	0.80
3660	48.00	0.582	11.97	335.01	0.77	11.59	442.32	0.76

m = 0.81								
m.s.n.m	b	δ	T = 50					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.922	15.24	756.65	1.00	14.64	802.89	0.92
610	70.10	0.850	14.44	716.73	0.95	13.87	760.53	0.87
1220	65.00	0.790	13.75	682.59	0.90	13.21	724.31	0.83
1830	60.20	0.730	13.04	647.58	0.86	12.53	687.15	0.79
2440	55.90	0.678	12.42	616.45	0.82	11.93	654.12	0.75
3050	51.80	0.628	11.80	585.76	0.78	11.33	621.55	0.71
3660	48.00	0.582	11.21	556.79	0.74	10.77	590.82	0.68

m.s.n.m	b	δ	m= 0.81 T=55°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	0.908	18.22	276.57	1.19	17.29	340.60	1.17
610	70.10	0.837	17.26	261.95	1.13	16.38	322.61	1.11
1220	65.00	0.780	16.47	249.92	1.08	15.62	307.79	1.06
1830	60.20	0.719	15.60	236.72	1.02	14.80	291.53	1.00
2440	55.90	0.668	14.85	225.39	0.97	14.09	277.57	0.96
3050	51.80	0.619	14.11	214.22	0.92	13.39	263.83	0.91
3660	4800	0.573	13.41	203.48	0.88	12.72	250.59	0.86

m.s.n.m	b	δ	m= 0.81 T=55°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760 0	0.908	16.10	450.64	1.04	15.60	595.00	1.03
610	70.10	0.837	15.25	426.83	0.98	14.77	563.56	0.97
1220	6500	0.780	14.55	407.23	0.94	14.09	537.68	0.93
1830	6020	0.719	13.78	385.71	0.89	13.35	509.27	0.88
2440	55.90	0.668	13.12	367.25	0.84	12.71	484.89	0.83
3050	51.80	0.619	12.47	349.06	0.80	12.08	460.88	0.79
3660	48.00	0.573	11.84	331.55	0.76	11.47	437.75	0.75

m.s.n.m	b	δ	m= 0.81 T=55°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1530.0 Go.	Vo	C.S.
0	76.00	0.908	15.09	748.98	0.99	14.49	794.75	0.91
610	70.10	0.837	14.29	709.41	0.94	13.73	752.76	0.86
1220	65.00	0.780	13.63	676.82	0.90	13.10	718.18	0.82
1830	60.20	0.719	12.91	641.06	0.85	12.41	680.23	0.78
2440	55.90	0.668	12.29	610.37	0.81	11.81	647.67	0.74
3050	51.80	0.619	11.68	580.15	0.77	11.23	615.60	0.71
3660	48.00	0.573	11.10	551.04	0.73	10.66	584.71	0.67

m = 0.81								
m.s.n.m	b	δ	T = 60°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	760.0	0.894	18.04	273.72	1.18	17.11	337.09	1.16
610	701.0	0.825	17.10	259.44	1.12	16.22	319.52	1.10
1220	650.0	0.770	16.33	247.78	1.07	15.49	305.15	1.05
1830	602.0	0.708	15.44	234.30	1.01	14.65	288.54	0.99
2440	559.0	0.658	14.70	223.13	0.96	13.95	274.79	0.95
3050	518.0	0.609	13.96	211.91	0.91	13.25	260.98	0.90
3660	480.0	0.565	13.28	201.58	0.87	12.60	248.25	0.85

m = 0.81								
m.s.n.m	b	δ	T = 60°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.894	15.93	446.00	1.03	15.43	588.87	1.01
610	701.0	0.825	15.10	422.74	0.97	14.63	558.16	0.96
1220	650.0	0.770	14.42	403.74	0.93	13.97	533.07	0.92
1830	602.0	0.708	13.64	381.77	0.88	13.21	504.06	0.87
2440	559.0	0.658	12.99	363.57	0.83	12.58	480.04	0.83
3050	518.0	0.609	12.33	345.29	0.79	11.95	455.90	0.78
3660	480.0	0.565	11.73	328.45	0.75	11.37	433.67	0.75

m = 0.81								
m.s.n.m	b	δ	T = 60°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.894	14.93	741.26	0.98	14.34	786.55	0.90
610	701.0	0.825	14.15	702.61	0.93	13.60	745.54	0.86
1220	650.0	0.770	13.52	671.02	0.89	12.99	712.03	0.82
1830	602.0	0.708	12.78	634.50	0.84	12.28	673.28	0.77
2440	559.0	0.658	12.17	604.27	0.80	11.69	641.19	0.74
3050	518.0	0.609	11.56	573.88	0.76	11.10	608.95	0.70
3660	480.0	0.565	10.99	545.90	0.72	10.56	579.26	0.66

m = 0.8									
m.s.n.m	b	δ	T = -10° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	1.132	20.85	316.41	1.37	19.78	389.67	1.34	
610	701.0	1.044	19.75	299.79	1.29	18.74	369.20	1.27	
1220	650.0	0.970	18.81	285.45	1.23	17.84	351.54	1.21	
1830	600.0	0.897	17.85	270.94	1.17	16.94	333.67	1.15	
2440	559.0	0.833	16.99	257.90	1.11	16.12	317.61	1.10	
3050	518.0	0.772	16.15	245.15	1.06	15.32	301.91	1.04	
3660	480.0	0.715	15.35	232.93	1.00	14.56	286.86	0.99	

m = 0.8									
m.s.n.m	b	δ	T = -10° C						
			750 KV. ACSR/AW 1331.5			1000 KV. ACSR/AW 1272.0			
			Go	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	1.132	18.42	515.56	1.19	17.84	680.71	1.17	
610	701.0	1.044	17.45	488.48	1.12	16.91	644.95	1.11	
1220	650.0	0.970	16.61	465.11	1.07	16.10	614.11	1.06	
1830	600.0	0.897	15.77	441.48	1.01	15.28	582.90	1.00	
2440	559.0	0.833	15.01	420.22	0.97	14.54	554.83	0.96	
3050	518.0	0.772	14.27	399.45	0.92	13.82	527.40	0.91	
3660	480.0	0.715	13.56	379.53	0.87	13.13	501.11	0.86	

m = 0.8									
m.s.n.m	b	δ	T = -10° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go	Vo	C.S.	
0	760.0	1.132	17.26	856.87	1.14	16.58	909.23	1.04	
610	701.0	1.044	16.35	811.86	1.08	15.71	861.47	0.99	
1220	650.0	0.970	15.57	773.03	1.02	14.96	820.27	0.94	
1830	600.0	0.897	14.78	733.74	0.97	14.20	778.58	0.89	
2440	559.0	0.833	14.07	698.41	0.93	13.52	741.09	0.85	
3050	518.0	0.772	13.37	663.89	0.88	12.85	704.46	0.81	
3660	480.0	0.715	12.71	630.79	0.84	12.21	669.34	0.77	

m = 0,8									
msnm	b	δ	T = -5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C S.	Go	Vo	C.S.	
0	760.0	1.111	20.59	312.48	1.35	19.54	384.83	1.33	
610	701.0	1.025	19.51	296.14	1.28	18.51	364.71	1.26	
1220	650.0	0.950	18.55	281.51	1.21	17.60	346.69	1.20	
1830	600.0	0.880	17.63	267.51	1.15	16.72	329.45	1.14	
2440	559.0	0.817	16.77	254.58	1.10	15.91	313.53	1.08	
3050	518.0	0.757	15.94	241.96	1.04	15.13	297.98	1.03	
3660	480.0	0.702	15.16	230.09	0.99	14.38	283.37	0.98	

m = 0,8									
msnm	b	δ	T = -5°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Co.	Vo.	CS	Go.	Vo	C.S.	
0	760.0	1.111	18.19	509.16	1.17	17.62	672.26	1.16	
610	701.0	1.025	17.24	482.53	1.11	16.70	637.11	1.10	
1220	650.0	0.950	16.38	458.70	1.05	15.87	605.64	1.04	
1830	600.0	0.880	15.57	435.88	1.00	15.08	575.51	0.99	
2440	559.0	0.817	14.82	414.82	0.95	14.36	547.70	0.94	
3050	518.0	0.757	14.08	394.25	0.91	13.64	520.55	0.90	
3660	480.0	0.702	13.39	374.92	0,86	12.97	495.02	0.85	

m = 0,8									
msnm	b	δ	T = -5°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.111	17.05	846.24	1.12	16.38	897.95	1.03	
610	701.0	1.025	16.15	801.98	1.06	15.52	850.99	0.98	
1220	650.0	0.950	15.36	762.37	1.01	14.75	808.96	0.93	
1830	600.0	0.880	14.59	724.44	0.96	14.02	768.71	0.88	
2440	559.0	0.817	13.89	689.44	0.91	13.34	731.57	0.84	
3050	518.0	0.757	13.20	655.26	0.87	12.68	695.30	0.80	
3660	480.0	0.702	12.55	623.12	0.83	12.06	661.20	0.76	

m = 0.8									
msnm	b	δ	T = 0° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C S	Go	Vo		C.S.
0	76.00	1.091	20.34	308.72	1.33	19.30	380.20		1.31
610	70.10	1.006	19.27	292.47	1.26	18.28	360.19		1.24
1220	65.00	0.930	18.29	277.55	1.20	17.35	341.81		1.18
1830	60.20	0.864	17.41	264.25	1.14	16.52	325.44		1.12
2440	55.90	0.802	16.57	251.46	1.08	15.72	309.68		1.07
3050	51.80	0.743	15.75	238.97	1.03	14.94	294.30		1.01
3660	48.00	0.689	14.97	227.24	0.98	14.21	279.86		0.96

m = 0.8									
msnm	b	δ	T = 0° C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C S	Go.	Vo		C.S.
0	76.00	1.091	17.97	503.03	1.16	17.41	004.17		1.15
610	70.10	1.006	17.02	476.55	1.10	16.49	629.21		1.08
1220	65.00	0.930	16.15	452.24	1.04	15.65	597.11		1.03
1830	60.20	0.864	15.38	430.58	0.99	14.90	568.51		0.98
2440	55.90	0.802	14.64	409.73	0.94	14.18	540.98		0.93
3050	51.80	0.743	13.91	389.38	0.89	13.47	514.11		0.89
3660	48.00	0.689	13.23	370.28	0.85	12.81	488.89		0.84

m = 0.8									
msnm	b	δ	T = 0° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go	Vo.		C.S.
0	76.00	1.091	16.84	836.05	1.11	16.18	887.14		1.02
610	70.10	1.006	15.95	792.04	1.05	15.33	840.44		0.97
1220	65.00	0.930	15.14	751.63	1.00	14.55	797.56		0.92
1830	60.20	0.864	14.41	715.64	0.95	13.85	759.37		0.87
2440	55.90	0.802	13.72	680.98	0.90	13.18	722.59		0.83
3050	51.80	0.743	13.04	647.16	0.86	12.52	686.70		0.79
3660	48.00	0.689	12.40	615.41	0.81	11.91	653.01		0.75

m = 0.8								
m.s.n.m	b	δ	T = 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	760.0	1.071	20.09	304.93	1.32	19.06	375.54	1.30
610	701.0	0.988	19.04	288.97	1.25	18.06	355.88	1.23
1220	650.0	0.920	18.16	275.55	1.19	17.23	339.35	1.17
1830	602.0	0.848	17.20	260.98	1.13	16.31	321.41	1.11
2440	559.0	0.788	16.38	248.52	1.07	15.54	306.06	1.06
3050	518.0	0.730	15.56	236.17	1.02	14.76	290.86	1.00
3660	480.0	0.676	14.78	224.38	0.97	14.03	276.33	0.95

m = 0.8								
m.s.n.m	b	δ	T = 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vc.	CS	Go.	Vo.	C.S.
0	760.0	1.071	17.75	496.87	1.14	17.20	656.03	1.13
610	701.0	0.988	16.82	470.85	1.08	16.30	621.68	1.07
1220	650.0	0.920	16.04	448.99	1.03	15.54	592.82	1.02
1830	602.0	0.848	15.19	425.25	0.98	14.72	561.47	0.97
2440	559.0	0.788	14.46	404.95	0.93	14.01	534.66	0.92
3050	518.0	0.730	13.75	384.82	0.88	13.32	508.10	0.88
3660	480.0	0.676	13.06	365.60	0.84	12.05	482.72	0.83

m = 0.8								
m.s.n.m	b	δ	T = 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.071	16.63	825.80	1.10	15.98	876.26	1.01
610	701.0	0.988	15.76	782.56	1.04	15.14	830.39	0.95
1220	650.0	0.920	15.03	746.23	0.99	14.44	791.83	0.91
1830	602.0	0.848	14.24	706.77	0.94	13.68	749.96	0.86
2440	559.0	0.788	13.56	673.03	0.89	13.02	714.16	0.82
3050	518.0	0.730	12.88	639.58	0.85	12.38	678.67	0.78
3660	480.0	0.676	12.24	607.64	0.80	11.76	644.77	0.74

m.s.n.m	b	δ	m= 0.8 T=10°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1351.5 Co	Vo	C.S.
0	760.0	1.052	19.85	301.32	1.30	18.84	371.08	1.28
610	701.0	0.970	18.81	285.45	1.23	17.84	351.54	1.21
1220	650.0	0.900	17.89	271.54	1.17	16.98	334.42	1.15
1830	602.0	0.833	16.99	257.90	1.11	16.12	317.61	1.10
2440	559.0	0.774	15.76	239.18	1.03	14.95	294.56	1.02
3050	518.0	0.717	15.38	233.36	1.01	14.59	287.39	0.99
3660	480.0	0.664	14.61	221.71	0.96	13.86	273.05	0.94

m.s.n.m	b	δ	m= 0.8 T=10°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	760.0	1.052	17.54	490.97	1.13	16.99	648.25	1.12
610	701.0	0.970	16.61	465.11	1.07	16.10	614.11	1.06
1220	650.0	0.900	15.80	442.46	1.02	15.31	584.19	1.01
1830	602.0	0.833	15.01	420.22	0.97	14.54	554.83	0.96
2440	559.0	0.774	13.92	389.73	0.90	13.49	514.57	0.89
3050	518.0	0.717	13.58	380.24	0.87	13.16	502.05	0.86
3660	480.0	0.664	12.90	361.26	0.83	12.50	476.99	0.82

m.s.n.m	b	δ	m= 0.8 T=10°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Co	Vo	C.S.
0	760.0	1.052	16.44	816.00	1.08	15.79	865.87	0.99
610	701.0	0.970	15.57	773.03	1.02	14.96	820.27	0.94
1220	650.0	0.900	14.81	735.38	0.97	14.23	780.32	0.90
1830	602.0	0.833	14.07	698.41	0.93	13.52	741.09	0.85
2440	559.0	0.774	13.05	647.74	0.86	12.53	687.32	0.79
3050	518.0	0.717	12.73	631.97	0.84	12.23	670.59	0.77
3660	480.0	0.664	12.09	600.43	0.79	11.62	637.12	0.73

m= 0.8

msnm	b	δ	T=15°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	760.0	1.034	19.63	297.87	1.28	18.62	366.84	1.27
610	701.0	0.954	18.60	282.30	1.22	17.65	347.66	1.20
1220	650.0	0.880	17.63	267.51	1.15	16.72	329.45	1.14
1830	602.0	0.819	16.80	255.00	1.10	15.94	314.04	1.08
2440	559.0	0.760	15.98	242.60	1.05	15.17	298.77	1.03
3050	519.0	0.705	15.20	230.75	0.99	14.42	284.18	0.98
3660	480.0	0.653	14.45	219.26	0.94	13.71	270.03	0.93

m= 0.8

msnm	b	δ	T=15°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	1.034	17.34	485.35	1.12	16.90	640.83	1.10
610	701.0	0.954	16.43	459.99	1.06	15.92	607.33	1.05
1220	650.0	0.880	15.57	435.88	1.00	15.08	575.51	0.99
1830	602.0	0.819	14.84	415.50	0.95	14.38	548.60	0.95
2440	559.0	0.760	14.12	395.30	0.91	13.68	521.92	0.90
3050	519.0	0.705	13.43	375.99	0.86	13.01	496.43	0.85
3660	480.0	0.653	12.76	357.26	0.82	12.36	471.71	0.81

m= 0.8

msnm	b	δ	T=15°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	1.034	16.25	806.67	1.07	15.61	855.96	0.98
610	701.0	0.954	15.40	764.51	1.01	14.79	811.22	0.93
1220	650.0	0.880	14.59	724.44	0.96	14.02	768.71	0.88
1830	602.0	0.819	13.91	690.57	0.92	13.36	732.77	0.84
2440	559.0	0.760	13.23	656.99	0.87	12.71	697.14	0.80
3050	519.0	0.705	12.59	624.90	0.83	12.09	663.08	0.76
3660	480.0	0.653	11.96	593.78	0.79	11.49	630.06	0.72

m = 0.8									
m.s.n.m	b	δ	T = 20°C						
			400 KV	ACSR/AW 1272.0		500 KV.	ACSR/AW 1113.5		
			Go.	Vo.	C S	Go	Vo	C.S.	
0	760.0	1.016	19.40	294.40	1.27	18.40	362.57	1.25	
610	701.0	0.937	18.38	278.94	1.20	17.44	343.52	1.19	
1220	650.0	0.870	17.49	265.48	1.14	16.60	326.94	1.13	
1830	602.0	0.805	16.61	252.08	1.09	15.76	310.45	1.07	
2440	559.0	0.747	15.80	239.82	1.03	14.99	295.35	1.02	
3050	518.0	0.693	15.03	228.12	0.98	14.26	280.94	0.97	
3660	480.0	0.642	14.28	216.79	0.93	13.55	266.98	0.92	

m = 0.8									
m.s.n.m	b	δ	T = 20° C						
			750 KV.	ACSR/AW 1351.5		1000 KV.	ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.	
0	760.0	1.016	17.14	479.71	1.10	16.60	633.37	1.09	
610	701.0	0.937	16.23	454.51	1.04	15.73	600.10	1.03	
1220	650.0	0.870	15.45	432.57	0.99	14.97	571.14	0.98	
1830	602.0	0.805	14.67	410.75	0.94	14.21	542.33	0.93	
2440	559.0	0.747	13.96	390.78	0.90	13.52	515.95	0.89	
3050	518.0	0.693	13.28	371.71	0.85	12.86	490.78	0.85	
3660	480.0	0.642	12.62	353.24	0.81	12.22	466.39	0.80	

m = 0.8									
m.s.n.m	b	δ	T = 20° C						
			1300 KV.	ACSR/AW 1351.5		1500 KV.	ACSR/AW 1590.0		
			Go	Vo.	CS	Go	Vo	C.S.	
0	760.0	1.016	16.06	797.28	1.06	15.43	846.00	0.97	
610	701.0	0.937	15.22	755.40	1.00	14.62	801.56	0.92	
1220	650.0	0.870	14.48	718.94	0.95	13.91	762.88	0.88	
1830	602.0	0.805	13.75	682.67	0.90	13.21	724.39	0.83	
2440	559.0	0.747	13.08	649.48	0.86	12.57	689.16	0.79	
3050	518.0	0.693	12.44	617.79	0.82	11.95	655.54	0.75	
3660	480.0	0.642	11.82	587.09	0.78	11.36	622.97	0.71	

m= 0.8

m.s.n.m.	b	δ	T=25°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	760.0	1.000	19.20	291.30	1.26	18.21	358.75	1.24
610	701.0	0.922	18.18	275.95	1.19	17.25	339.85	1.17
1220	650.0	0.860	17.36	263.44	1.14	16.47	324.43	1.12
1830	602.0	0.791	16.42	249.15	1.07	15.58	306.84	1.06
2440	559.0	0.735	15.63	237.25	1.02	14.83	292.18	1.01
3050	519.0	0.681	14.86	225.48	0.97	14.09	277.69	0.96
3660	480.0	0.631	14.12	214.31	0.92	13.40	263.93	0.91

m= 0.8

m.s.n.m	b	δ	T=25°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S.	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	1.000	16.96	474.66	1.09	16.43	626.70	1.08
610	701.0	0.922	16.06	449.64	1.03	15.56	593.68	1.02
1220	650.0	0.860	15.33	429.25	0.99	14.86	566.75	0.98
1830	602.0	0.791	14.50	405.97	0.93	14.05	536.02	0.92
2440	559.0	0.735	13.81	386.58	0.89	13.38	510.41	0.88
3050	519.0	0.681	13.12	367.40	0.84	12.71	485.10	0.84
3660	480.0	0.631	12.47	349.19	0.80	12.08	461.05	0.79

m= 0.8

m.s.n.m	b	δ	T=25°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.0.0	1.000	15.89	788.89	1.05	15.27	837.10	0.96
610	70.1.0	0.922	15.05	747.31	0.99	14.46	792.98	0.91
1220	65.0.0	0.860	14.37	713.42	0.95	13.81	757.02	0.87
1830	60.2.0	0.791	13.59	674.74	0.89	13.06	715.97	0.82
2440	55.9.0	0.735	12.94	642.50	0.85	12.43	681.76	0.78
3050	51.9.0	0.681	12.30	610.63	0.81	11.82	647.95	0.74
3660	48.0.0	0.631	11.69	580.37	0.77	11.23	615.83	0.71

m = 0.8								
m.s.n.m	b	δ	T = 30°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C.S.	Go	Vo	C.S.
0	7600	0.983	18.98	297.99	1.24	18.00	354.67	1.22
610	7010	0.906	17.97	272.75	1.18	17.05	335.90	1.16
1220	6500	0.840	17.09	259.34	1.12	16.21	319.38	1.10
1830	6020	0.778	16.24	246.41	1.06	15.40	303.47	1.05
2440	5590	0.723	15.46	234.66	1.01	14.67	288.99	1.00
3050	5180	0.670	14.70	223.05	0.96	13.94	274.69	0.95
3660	4800	0.620	13.96	211.81	0.91	13.24	260.85	0.90

m = 0.8								
m.s.n.m	b	δ	T = 30°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	7600	0.983	16.76	469.26	1.08	16.24	619.58	1.07
610	7010	0.906	15.87	444.42	1.02	15.38	586.79	1.01
1220	6500	0.840	15.09	422.57	0.97	14.62	557.93	0.96
1830	6020	0.778	14.34	401.51	0.92	13.89	530.13	0.91
2440	5590	0.723	13.66	382.36	0.88	13.23	504.84	0.87
3050	5180	0.670	12.98	363.44	0.83	12.58	479.86	0.83
3660	4800	0.620	12.33	345.12	0.79	11.94	455.68	0.78

m = 0.8								
m.s.n.m	b	δ	T = 30°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	7600	0.983	15.71	779.92	1.03	15.09	827.58	0.95
610	7010	0.906	14.88	738.64	0.98	14.29	783.78	0.90
1220	6500	0.840	14.15	702.32	0.93	13.59	745.24	0.86
1830	6020	0.778	13.44	667.32	0.88	12.91	708.10	0.81
2440	5590	0.723	12.80	635.49	0.84	12.30	674.32	0.77
3050	5180	0.670	12.17	604.04	0.80	11.69	640.95	0.74
3660	4800	0.620	11.55	573.60	0.76	11.10	608.65	0.70

m = 0.8								
m.s.n.m	b	δ	T = 35 °C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.967	18.77	284.86	1.23	17.81	350.82	1.21
610	70.10	0.892	17.79	269.93	1.16	16.87	332.43	1.15
1220	65.00	0.830	16.95	257.20	1.11	16.08	316.95	1.09
1830	60.20	0.766	16.07	243.87	1.05	15.25	300.34	1.04
2440	55.90	0.711	15.29	232.06	1.00	14.51	285.74	0.98
3050	51.80	0.659	14.53	220.60	0.95	13.79	271.68	0.94
3660	48.00	0.610	13.80	209.52	0.90	13.10	258.04	0.89

m = 0.8								
m.s.n.m	b	δ	T = 35 °C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.967	16.58	464.16	1.07	16.06	612.84	1.06
610	70.10	0.892	15.71	439.83	1.01	15.22	580.73	1.00
1220	65.00	0.830	14.97	419.21	0.96	14.51	553.50	0.95
1830	60.20	0.766	14.19	397.37	0.91	13.75	524.67	0.90
2440	55.90	0.711	13.51	378.12	0.87	13.08	499.24	0.86
3050	51.80	0.659	12.84	359.45	0.83	12.44	474.59	0.82
3660	48.00	0.610	12.19	341.40	0.78	11.81	450.77	0.78

m = 0.8								
m.s.n.m	b	δ	T = 35 °C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.967	15.54	771.44	1.02	14.93	818.58	0.94
610	70.10	0.892	14.72	731.01	0.97	14.15	775.69	0.89
1220	65.00	0.830	14.03	696.74	0.92	13.48	739.31	0.85
1830	60.20	0.766	13.30	660.44	0.87	12.78	700.80	0.80
2440	55.90	0.711	12.66	628.44	0.83	12.16	666.84	0.77
3050	51.80	0.659	12.03	597.41	0.79	11.56	633.92	0.73
3660	48.00	0.610	11.43	567.42	0.75	10.98	602.09	0.69

m= 0.8

m.s.n.m	a	δ	T=40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.951	18.56	281.71	1.21	17.61	346.94	1.20
610	70.10	0.877	17.59	266.90	1.15	16.68	328.70	1.13
1220	65.00	0.810	16.68	253.13	1.09	15.82	311.73	1.07
1830	60.20	0.753	15.89	241.11	1.04	15.07	296.93	1.02
2440	55.90	0.700	15.13	229.66	0.99	14.36	282.83	0.97
3050	51.80	0.648	14.37	218.14	0.94	13.64	268.65	0.93
3660	48.00	0.601	13.67	207.46	0.89	12.97	255.49	0.88

m= 0.8

m.s.n.m	b	δ	T=40°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.951	16.40	459.02	1.06	15.89	606.06	1.04
610	70.10	0.877	15.53	434.89	1.00	15.05	574.20	0.99
1220	65.00	0.810	14.73	412.45	0.95	14.27	544.57	0.94
1830	60.20	0.753	14.03	392.86	0.90	13.60	518.71	0.89
2440	55.90	0.700	13.37	374.21	0.86	12.95	494.08	0.85
3050	51.80	0.648	12.70	355.44	0.82	12.30	469.30	0.81
3660	48.00	0.601	12.07	338.04	0.78	11.70	446.32	0.77

m= 0.8

m.s.n.m	b	δ	T=40°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.951	15.37	762.90	1.01	14.76	809.52	0.93
610	70.10	0.877	14.56	722.80	0.96	13.99	766.96	0.88
1220	65.00	0.810	13.81	685.50	0.91	13.27	727.39	0.83
1830	60.20	0.753	13.15	652.95	0.86	12.64	692.85	0.80
2440	55.90	0.700	12.53	621.94	0.82	12.04	659.95	0.76
3050	51.80	0.648	11.90	590.74	0.78	11.43	626.84	0.72
3660	48.00	0.601	11.32	561.82	0.74	10.87	596.16	0.68

m = 0,8								
m.s.n.m	b	δ	T = 45°C					
			400 KV. ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.936	18.37	278.74	1.20	17.43	343.28	1.18
610	70.10	0.864	17.41	264.25	1.14	16.52	325.44	1.12
1220	65.00	0.800	16.54	251.04	1.08	15.69	309.16	1.07
1830	60.20	0.742	15.73	238.75	1.03	14.92	294.03	1.01
2440	55.90	0.689	14.97	227.24	0.98	14.21	279.86	0.96
3050	51.80	0.638	14.22	215.89	0.93	13.50	265.87	0.92
3660	48.00	0.591	13.52	205.15	0.88	12.82	252.65	0.87

m = 0,8								
m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	0.936	16.22	454.18	1.04	15.72	599.67	1.03
610	70.10	0.864	15.30	430.58	0.99	14.90	568.51	0.98
1220	65.00	0.800	14.61	409.05	0.94	14.16	540.08	0.93
1830	60.20	0.742	13.90	389.03	0.89	13.46	513.65	0.88
2440	55.90	0.689	13.23	370.28	0.85	12.81	488.89	0.84
3050	51.80	0.638	12.56	351.77	0.81	12.17	464.46	0.80
3660	48.00	0.591	11.94	334.28	0.77	11.57	441.36	0.76

m = 0,8								
m.s.n.m	b	δ	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.936	15.21	754.86	1.00	14.61	800.99	0.92
610	70.10	0.864	14.41	715.64	0.95	13.85	759.37	0.87
1220	65.00	0.800	13.69	679.84	0.90	13.16	721.39	0.83
1830	60.20	0.742	13.02	646.57	0.86	12.51	686.09	0.79
2440	55.90	0.689	12.40	615.41	0.81	11.91	653.01	0.75
3050	51.80	0.638	11.78	584.65	0.77	11.31	620.38	0.71
3660	48.00	0.591	11.19	555.57	0.74	10.75	589.52	0.68

m = 0.8									
m.s.n.m	b	δ	T = 50°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.0			
			Go	Vo.	C.S.	Go	Vo	C.S.	
0	76.00	0.922	18.18	275.95	1.19	17.25	339.65	1.17	
610	70.10	0.850	17.22	261.39	1.13	16.34	321.91	1.11	
1220	65.00	0.790	16.40	248.94	1.07	15.56	306.58	1.06	
1830	60.20	0.730	15.56	236.17	1.02	14.76	290.86	1.00	
2440	55.90	0.679	14.81	224.82	0.97	14.05	276.87	0.95	
3050	51.80	0.628	14.08	213.63	0.92	13.35	263.09	0.91	
3660	48.00	0.582	13.38	203.06	0.87	12.69	250.08	0.86	

m = 0.8									
m.s.n.m	b	δ	T = 50°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	CS	Go.	Vo	C.S.	
0	76.00	0.922	16.06	449.64	1.03	15.56	593.08	1.02	
610	70.10	0.850	15.21	425.92	0.98	14.74	562.35	0.97	
1220	65.00	0.790	14.49	405.63	0.93	14.04	535.57	0.92	
1830	60.20	0.730	13.75	384.82	0.88	13.32	508.10	0.88	
2440	55.90	0.678	13.08	366.33	0.84	12.68	483.67	0.83	
3050	51.80	0.628	12.43	348.09	0.80	12.05	459.59	0.79	
3660	48.00	0.582	11.82	330.87	0.76	11.45	436.86	0.75	

m = 0.8									
m.s.n.m	b	δ	T = 50						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go	Vo	C.S.	
0	76.00	0.922	15.05	747.31	0.99	14.46	792.98	0.91	
610	70.10	0.850	14.26	707.88	0.94	13.70	751.14	0.86	
1220	65.00	0.790	13.58	674.17	0.89	13.05	715.36	0.82	
1830	60.20	0.730	12.88	639.58	0.85	12.38	678.07	0.78	
2440	55.90	0.678	12.26	608.84	0.81	11.78	646.05	0.74	
3050	51.80	0.628	11.65	578.53	0.77	11.19	613.88	0.70	
3660	48.00	0.582	11.08	549.92	0.73	10.64	583.52	0.67	

m= 0.8

m.s.n.m	b	δ	T=55°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	760.0	0.908	18.00	273.15	1.18	17.08	336.40	1.16
610	701.0	0.837	17.05	258.72	1.12	16.17	318.62	1.10
1220	650.0	0.780	16.20	246.84	1.06	15.43	303.90	1.05
1830	602.0	0.719	15.40	233.79	1.01	14.61	287.93	0.99
2440	559.0	0.668	14.67	222.60	0.96	13.91	274.14	0.94
3050	518.0	0.619	13.94	211.58	0.91	13.23	268.57	0.90
3660	480.0	0.573	13.24	200.96	0.87	12.56	247.49	0.85

m= 0.8

m.s.n.m	b	δ	T=55°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1000 KV. ACSR/AW 1272.0 Co.	Vo.	C.S.
0	760.0	0.908	15.90	445.08	1.02	15.40	587.65	1.10
610	701.0	0.837	15.06	421.56	0.97	14.59	556.60	0.96
1220	650.0	0.780	14.37	402.20	0.92	13.92	531.04	0.91
1830	602.0	0.719	13.61	380.95	0.87	13.18	502.98	0.87
2440	559.0	0.668	12.96	362.71	0.83	12.55	478.90	0.82
3050	518.0	0.619	12.31	344.75	0.79	11.93	455.19	0.78
3660	480.0	0.573	11.70	327.45	0.75	11.33	432.35	0.74

m= 0.8

m.s.n.m	b	δ	T=55°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	0.908	14.90	739.73	0.98	14.32	784.93	0.90
610	701.0	0.837	14.11	700.65	0.93	13.56	743.46	0.85
1220	650.0	0.780	13.46	668.47	0.89	12.94	709.31	0.81
1830	602.0	0.719	12.75	633.14	0.84	12.25	671.83	0.77
2440	559.0	0.668	12.14	602.84	0.80	11.67	639.68	0.73
3050	518.0	0.619	11.54	572.99	0.76	11.09	608.00	0.70
3660	480.0	0.573	10.96	544.24	0.72	10.53	577.49	0.66

m = 0,8

m.s.n.m	b	δ	T = 60°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo	C S	Go	Vo	C.S.
0	760.0	0.894	17,81	270.34	1.17	16,90	332.93	1.15
610	701.0	0.825	16.88	256.24	1.10	16.02	315.57	1.09
1220	650.0	0.770	16.12	244.72	1.05	15.30	301.39	1.04
1830	602.0	0.708	15.25	231.40	1.00	14.47	284.98	0.98
2440	559.0	0.658	14.52	220.38	0.95	13.78	271.40	0.94
3050	518.0	0.609	13.79	209.30	0.90	13.08	257.76	0.89
3660	480.0	0.565	13.12	199.09	0.86	12.44	245.1	0.84

m = 0,8

m.s.n.m	b	δ	T = 60°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	760.0	0.894	15.73	440.49	1.01	15.24	581.60	1.00
610	701.0	0.825	14.91	417.52	0.96	14.45	551.27	0.95
1220	650.0	0.770	14.24	398.76	0.92	13.80	526.49	0.91
1830	602.0	0.708	13.47	377.05	0.87	13.05	497.84	0.86
2440	559.0	0.658	12.83	359.09	0.82	12.43	474.11	0.82
3050	518.0	0.609	12.18	341.03	0.78	11.80	450.27	0.77
3660	480.0	0.565	11.59	324.40	0.74	11.23	428.31	0.74

m = 0,8

m.s.n.m	b	δ	T = 60°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C S
0	760.0	0.894	14.75	732.11	0.97	14.17	776.84	0.89
610	701.0	0.825	13.98	693.93	0.92	13.43	736.34	0.85
1220	650.0	0.770	13.35	662.74	0.88	12.82	703.24	0.81
1830	602.0	0.708	12.62	626.67	0.83	12.13	664.96	0.76
2440	559.0	0.658	12.02	596.81	0.79	11.55	633.28	0.73
3050	518.0	0.609	11.42	566.80	0.75	10.97	601.43	0.69
3660	480.0	0.565	10.86	539.16	0.71	10.43	572.11	0.66

m= 0.765

msnm	b	δ	T= -10° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1351.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.132	19.94	302.56	1.31	18.92	372.62	1.29
610	701.0	1.044	18.89	286.67	1.24	17.92	352.05	1.22
1220	650.0	0.970	17.99	272.96	1.18	17.06	336.16	1.16
1830	600.0	0.897	17.07	259.09	1.12	16.20	319.08	1.10
2440	559.0	0.833	16.25	246.61	1.06	15.42	303.71	1.05
3050	518.0	0.772	15.45	234.42	1.01	14.65	288.70	1.00
3660	480.0	0.715	14.68	222.74	0.96	13.92	274.31	0.95

m= 0.765

msnm	b	δ	T= -10° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.132	17.61	493.00	1.13	17.06	650.93	1.12
610	701.0	1.044	16.69	467.11	1.07	16.17	616.74	1.06
1220	650.0	0.970	15.89	444.77	1.02	15.39	587.24	1.01
1830	600.0	0.897	15.08	422.16	0.97	14.61	557.39	0.96
2440	559.0	0.833	14.35	401.83	0.92	13.91	530.56	0.91
3050	518.0	0.772	13.64	381.97	0.88	13.22	504.33	0.87
3660	480.0	0.715	12.96	362.93	0.83	12.56	479.19	0.82

m= 0.765

msnm	b	δ	T= -10° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Co.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.132	16.51	819.38	1.09	15.86	869.45	1.00
610	70.10	1.044	15.64	776.34	1.03	15.02	823.78	0.95
1220	65.00	0.970	14.89	739.21	0.98	14.31	784.38	0.90
1830	60.20	0.897	14.13	701.64	0.93	13.58	744.52	0.85
2440	55.90	0.833	13.45	667.86	0.88	12.92	708.67	0.81
3050	51.80	0.772	12.79	634.84	0.84	12.28	673.64	0.77
3660	48.00	0.715	12.15	603.20	0.80	11.67	640.06	0.73

m = 0.765

m.s.n.m	b	δ	Tm = 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1[illegible].5		
			Co.	Vo.	C.S.	Co	Vo	C.S.
0	76.00	1.111	19.69	298.81	1.29	18.68	367.99	1.27
610	70.10	1.025	18.66	283.18	1.22	17.70	348.75	1.20
1220	65.00	0.950	17.74	269.20	1.16	16.83	331.52	1.14
1830	60.20	0.880	16.86	255.80	1.10	15.99	315.03	1.09
2440	55.90	0.817	16.04	243.44	1.05	15.22	299.81	1.03
3050	51.80	0.757	15.25	231.37	1.00	14.46	284.95	0.98
3660	48.00	0.702	14.50	220.03	0.95	13.75	270.97	0.93

m = 0.765

m.s.n.m	b	δ	Tm = 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Co.	Vo.	C.S	Co.	Vo.	C.S.
0	76.00	1.111	17.39	486.88	1.12	16.85	642.85	1.11
610	70.10	1.025	16.48	461.42	1.06	15.97	609.23	1.05
1220	65.00	0.950	15.67	438.63	1.01	15.18	579.14	1.00
1830	60.20	0.880	14.89	416.81	0.96	14.42	550.33	0.95
2440	55.90	0.817	14.17	396.67	0.91	13.73	523.74	0.90
3050	51.80	0.757	13.47	377.01	0.87	13.05	497.77	0.86
3660	48.00	0.702	12.81	358.52	0.82	12.41	473.36	0.81

m = 0.765

m.s.n.m	b	δ	Tm = 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Co	Vo.	CS	Co.	Vo	C.S.
0	76.00	1.111	16.30	809.21	1.07	15.66	858.66	0.99
610	70.10	1.025	15.45	766.90	1.02	14.84	813.76	0.93
1220	65.00	0.950	14.68	729.01	0.97	14.11	773.56	0.89
1830	60.20	0.880	13.95	692.75	0.92	13.41	735.08	0.84
2440	55.90	0.817	13.28	659.28	0.87	12.76	699.57	0.80
3050	51.80	0.757	12.62	621.59	0.83	12.13	664.88	0.76
3660	48.00	0.702	12.00	595.86	0.79	11.53	632.27	0.73

m= 0.765

m.s.n.m	b	δ	T= 0° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	760.0	1.091	19.45	295.21	1.27	18.46	363.56	1.25
610	701.0	1.006	18.43	279.67	1.21	17.48	344.43	1.19
1220	550.0	0.930	17.49	265.40	1.13	16.59	326.85	1.13
1830	502.0	0.864	16.65	252.69	1.09	15.80	311.20	1.07
2440	559.0	0.802	15.84	240.46	1.04	15.03	296.13	1.02
3050	518.0	0.743	15.06	228.51	0.98	14.28	281.42	0.97
3660	480.0	0.689	14.32	217.30	0.94	13.58	267.62	0.92

m= 0.765

m.s.n.m	b	δ	T= 0° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	760.0	1.091	17.18	481.02	1.11	16.65	635.11	1.10
610	701.0	1.006	16.28	455.70	1.05	15.77	601.68	1.04
1220	650.0	0.930	15.45	432.45	0.99	14.97	570.98	0.96
1830	602.0	0.864	14.71	411.74	0.95	14.25	543.64	0.94
2440	559.0	0.802	13.99	391.80	0.90	13.56	517.31	0.89
3050	518.0	0.743	13.30	372.34	0.85	12.89	491.62	0.85
3660	480.0	0.689	12.65	354.08	0.81	12.25	467.50	0.80

m= 0.765

m.s.n.m	b	δ	T= 0° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.091	16.10	799.47	1.06	15.47	848.33	0.97
610	701.0	1.006	15.26	757.39	1.00	14.66	803.67	0.92
1220	650.0	0.930	14.48	718.75	0.95	13.91	762.67	0.88
1830	602.0	0.864	13.78	684.33	0.91	13.24	726.14	0.83
2440	559.0	0.802	13.12	651.18	0.86	12.60	690.98	0.79
3050	518.0	0.743	12.46	618.84	0.82	11.98	656.66	0.75
3660	480.0	0.689	11.85	588.48	0.78	11.39	624.44	0.72

m= 0.765

m.s.n.m	b	δ	T= 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.071	19.21	291.59	1.26	18.23	359.11	1.24
610	70.10	0.988	18.21	276.33	1.19	17.27	340.31	1.17
1220	65.00	0.920	17.36	263.50	1.14	16.47	324.51	1.12
1830	60.20	0.848	16.44	249.56	1.08	15.60	307.35	1.06
2440	55.90	0.788	15.66	237.65	1.02	14.86	292.67	1.01
3050	51.80	0.730	14.88	225.84	0.97	14.12	278.13	0.96
3660	48.00	0.676	14.14	214.56	0.92	13.41	264.24	0.91

m= 0.765

m.s.n.m	b	δ	T= 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	76.00	1.071	16.97	475.13	1.09	16.44	627.33	1.08
610	70.10	0.988	16.08	450.25	1.03	15.58	594.48	1.02
1220	65.00	0.920	15.34	429.35	0.99	14.86	566.88	0.98
1830	60.20	0.848	14.52	406.64	0.93	14.07	536.91	0.92
2440	55.90	0.788	13.83	387.23	0.89	13.40	511.27	0.88
3050	51.90	0.730	13.14	367.99	0.84	12.73	485.87	0.84
3660	48.00	0.676	12.49	349.61	0.80	12.10	461.60	0.79

m= 0.765

m.s.n.m	b	δ	T= 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.071	15.91	789.67	1.05	15.28	837.93	0.96
610	70.10	0.988	15.07	748.33	0.99	14.48	794.06	0.91
1220	65.00	0.920	14.37	713.58	0.95	13.81	757.19	0.87
1830	60.20	0.848	13.61	675.85	0.90	13.08	717.15	0.82
2440	55.90	0.788	12.96	643.58	0.85	12.45	682.91	0.78
3050	51.60	0.730	12.32	611.60	0.81	11.83	648.98	0.74
3660	48.00	0.676	11.70	581.06	0.77	11.24	616.57	0.71

m = 0.765

m.s.n.m	b	δ	T = 10°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.052	18.99	288.13	1.24	18.01	354.85	1.22
610	70.10	0.970	17.99	272.96	1.18	17.06	336.16	1.16
1220	65.00	0.900	17.11	259.66	1.12	16.23	319.79	1.10
1830	60.20	0.833	16.25	246.61	1.06	15.42	303.71	1.05
2440	55.90	0.774	15.07	232.72	1.01	14.30	281.68	0.97
3050	51.80	0.717	14.70	223.15	0.96	13.95	274.82	0.95
3660	48.00	0.664	13.97	212.01	0.91	13.25	261.10	0.90

m = 0.765

m.s.n.m	b	δ	T = 10°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.052	16.77	469.49	1.08	16.25	619.88	1.07
610	70.10	0.970	15.89	444.77	1.02	15.39	587.24	1.01
1220	65.00	0.900	15.11	423.10	0.97	14.64	558.64	0.96
1830	60.20	0.833	14.35	401.83	0.92	13.91	530.56	0.91
2440	55.90	0.774	13.31	372.68	0.86	12.90	492.06	0.85
3050	51.80	0.717	12.99	363.61	0.83	12.58	480.08	0.83
3660	48.00	0.664	12.34	345.46	0.79	11.95	456.12	0.79

m = 0.765

m.s.n.m	b	δ	T = 10°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	1.052	15.72	780.30	1.03	15.10	827.99	0.95
610	70.10	0.970	14.89	739.21	0.98	14.31	784.38	0.90
1220	65.00	0.900	14.16	703.21	0.93	13.61	746.18	0.86
1830	60.20	0.833	13.45	667.86	0.88	12.92	708.67	0.81
2440	55.90	0.774	12.48	619.40	0.82	11.99	657.25	0.75
3050	51.80	0.717	12.17	604.32	0.80	11.69	641.25	0.74
3660	48.00	0.664	11.56	574.16	0.76	11.11	609.25	0.70

m = 0.765									
m.s.n.m	b	δ	T = 15°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	1.034	18.77	284.84	1.23	17.81	350.79	1.21
610	70.10	0.954	17.79	269.95	1.16	16.88	332.45	1.15
1220	65.00	0.880	16.86	255.80	1.10	15.99	315.03	1.09
1830	60.20	0.819	16.07	243.84	1.05	15.24	300.30	1.04
2440	55.90	0.760	15.29	231.99	1.00	14.50	285.70	0.98
3050	51.80	0.705	14.54	220.65	0.95	13.79	271.74	0.94
3660	48.00	0.653	13.81	209.67	0.90	13.11	258.21	0.89

m = 0.765									
m.s.n.m	b	δ	T = 15°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.034	16.58	464.12	1.07	16.06	612.79	1.06
610	70.10	0.954	15.71	439.86	1.01	15.22	580.76	1.00
1220	65.00	0.880	14.89	416.81	0.96	14.42	550.33	0.95
1830	60.20	0.819	14.19	397.32	0.91	13.75	524.59	0.90
2440	55.90	0.760	13.50	378.00	0.87	13.08	499.09	0.86
3050	51.80	0.705	12.84	359.54	0.83	12.44	474.71	0.82
3660	48.00	0.653	12.20	341.63	0.78	11.82	451.07	0.78

m = 0.765									
m.s.n.m	b	δ	T = 15°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.034	15.54	771.38	1.02	14.93	818.52	0.94
610	70.10	0.954	14.73	731.06	0.97	14.15	775.73	0.89
1220	65.00	0.880	13.95	692.75	0.92	13.41	735.08	0.84
1830	60.20	0.819	13.30	660.35	0.87	12.78	700.71	0.80
2440	55.90	0.760	12.65	628.25	0.83	12.16	666.64	0.76
3050	51.80	0.705	12.04	597.56	0.79	11.56	634.07	0.73
3660	48.00	0.653	11.44	567.80	0.75	10.99	602.50	0.69

m = 0.765									
m.s.n.m	b	δ	T = 20°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	1.016	18.55	281.52	1.21	17.60	346.71	1.20	
610	701.0	0.937	17.58	266.73	1.15	16.67	328.49	1.13	
1220	650.0	0.870	16.73	253.86	1.09	15.87	312.64	1.08	
1830	602.0	0.805	15.88	241.05	1.04	15.07	296.87	1.02	
2440	559.0	0.747	15.11	229.33	0.99	14.34	282.43	0.97	
3050	518.0	0.693	14.37	218.14	0.94	13.64	268.65	0.93	
3660	480.0	0.642	13.66	207.30	0.89	12.96	255.30	0.88	

m = 0.765									
m.s.n.m	b	δ	T = 20°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.016	16.39	458.72	1.05	15.88	605.66	1.04	
610	701.0	0.937	15.52	434.62	1.00	15.04	573.84	0.99	
1220	650.0	0.870	14.78	413.65	0.95	14.31	546.15	0.94	
1830	602.0	0.805	14.03	392.78	0.90	13.59	518.60	0.89	
2440	559.0	0.747	13.35	373.68	0.86	12.93	493.38	0.85	
3050	518.0	0.693	12.70	355.45	0.82	12.30	469.31	0.81	
3660	480.0	0.642	12.06	337.79	0.78	11.69	445.99	0.77	

m = 0.765									
m.s.n.m	b	δ	T = 20°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.016	15.36	762.40	1.01	14.75	808.99	0.93	
610	701.0	0.937	14.55	722.35	0.96	13.98	766.49	0.88	
1220	650.0	0.870	13.85	687.49	0.91	13.30	729.50	0.84	
1830	602.0	0.805	13.15	652.81	0.86	12.63	692.70	0.79	
2440	559.0	0.747	12.51	621.06	0.82	12.02	659.01	0.76	
3050	518.0	0.693	11.90	590.76	0.78	11.43	626.86	0.72	
3660	480.0	0.642	11.31	561.41	0.74	10.86	595.71	0.68	

m= 0.765

m.s.n.m	b	δ	T=25°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.000	18.36	278.56	1.20	17.41	343.06	1.18
610	70.10	0.922	17.39	263.88	1.14	16.50	324.98	1.12
1220	65.00	0.860	16.60	251.91	1.09	15.75	310.24	1.07
1830	60.20	0.791	15.70	238.25	1.03	14.89	293.42	1.01
2440	55.90	0.735	14.95	226.87	0.98	14.18	279.40	0.96
3050	51.80	0.681	14.21	215.62	0.93	13.48	265.54	0.91
3660	48.00	0.631	13.50	204.93	0.88	12.81	252.38	0.87

m= 0.765

m.s.n.m	b	δ	T=25°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	1.000	16.21	453.89	1.04	15.71	599.29	1.03
610	70.10	0.922	15.36	429.97	0.99	14.88	567.70	0.98
1220	65.00	0.860	14.66	410.47	0.94	14.21	541.96	0.93
1830	60.20	0.791	13.87	388.21	0.89	13.43	512.57	0.88
2440	55.90	0.735	13.20	369.67	0.85	12.79	488.08	0.84
3050	51.80	0.681	12.55	351.33	0.81	12.16	463.87	0.80
3660	48.00	0.631	11.93	333.92	0.77	11.55	440.88	0.76

m= 0.765

m.s.n.m	b	δ	T=25°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.000	15.20	754.37	1.00	14.60	800.47	0.92
610	70.10	0.922	14.39	714.62	0.95	13.83	758.29	0.87
1220	65.00	0.860	13.74	682.21	0.90	13.20	723.90	0.83
1830	60.20	0.791	13.00	645.22	0.85	12.49	684.64	0.79
2440	55.90	0.735	12.37	614.39	0.81	11.89	651.94	0.75
3050	51.80	0.681	11.76	583.92	0.77	11.30	619.60	0.71
3660	48.00	0.631	11.18	554.98	0.73	10.74	588.89	0.67

m = 0.765									
m.s.n.m	b	δ	T = 30°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1105.5			
			Go.	Vo.	C.S.	Go.	Vo.	C.S.	
0	760.0	0.983	18.15	275.39	1.19	17.22	339.16	1.17	
610	701.0	0.906	17.19	260.82	1.12	16.30	321.21	1.11	
1220	650.0	0.840	16.34	247.99	1.07	15.50	305.41	1.05	
1830	600.2	0.778	15.53	235.63	1.02	14.73	290.19	1.00	
2440	559.0	0.723	14.78	224.39	0.97	14.03	276.35	0.95	
3050	518.0	0.670	14.05	213.29	0.92	13.33	262.67	0.90	
3660	480.0	0.620	13.34	202.54	0.87	12.66	249.44	0.86	

m = 0.765									
m.s.n.m	b	δ	T = 30°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	0.983	16.03	448.73	1.03	15.53	592.47	1.02	
610	701.0	0.906	15.18	424.98	0.98	14.71	561.12	0.97	
1220	650.0	0.840	14.43	404.08	0.93	13.98	533.52	0.92	
1830	600.2	0.778	13.71	383.95	0.88	13.29	506.94	0.87	
2440	559.0	0.723	13.06	365.63	0.84	12.65	482.76	0.83	
3050	518.0	0.670	12.41	347.54	0.80	12.03	458.87	0.79	
3660	480.0	0.620	11.79	330.02	0.76	11.42	435.74	0.75	

m = 0.765									
m.s.n.m	b	δ	T = 30°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo	C.S.	
0	760.0	0.983	15.02	745.80	0.99	14.43	791.38	0.91	
610	701.0	0.906	14.23	706.33	0.94	13.67	749.49	0.86	
1220	650.0	0.840	13.53	671.59	0.89	13.00	712.63	0.82	
1830	600.2	0.778	12.85	638.13	0.85	12.35	677.12	0.78	
2440	559.0	0.723	12.24	607.69	0.80	11.76	644.82	0.74	
3050	518.0	0.670	11.63	577.61	0.76	11.18	612.91	0.70	
3660	480.0	0.620	11.05	548.51	0.73	10.61	582.03	0.67	

m.s.n.m	b	δ	m= 0.765 T=35°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	0.967	17.95	272.40	1.17	17.03	335.47	1.16
610	70.10	0.892	17.01	258.12	1.11	16.14	317.89	1.10
1220	65.00	0.830	16.21	246.02	1.06	15.38	302.98	1.04
1830	60.20	0.766	15.37	233.20	1.00	14.58	287.20	0.99
2440	55.90	0.711	14.62	221.90	0.96	13.87	273.25	0.94
3050	51.80	0.659	13.90	210.95	0.91	13.19	259.79	0.89
3660	48.00	0.610	13.20	200.36	0.86	12.52	246.75	0.85

m.s.n.m	b	δ	m= 0.765 T=35°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	0.967	15.85	443.85	1.02	15.36	586.03	1.01
610	70.10	0.892	15.02	420.59	0.97	14.56	555.32	0.96
1220	65.00	0.830	14.32	400.87	0.92	13.87	529.28	0.91
1.830	60.20	0.766	13.57	379.99	0.87	13.15	501.71	0.86
2.440	55.90	0.711	12.91	361.57	0.83	12.51	477.40	0.82
3050	51.80	0.659	12.28	343.72	0.79	11.89	453.83	0.78
3660	48.00	0.610	11.66	326.47	0.75	11.30	431.04	0.74

m.s.n.m	b	δ	m= 0.765 T=35°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.967	14.86	737.69	0.98	14.28	782.76	0.90
610	70.10	0.892	14.08	699.03	0.93	13.53	741.75	0.85
1220	65.00	0.830	13.42	666.25	0.88	12.89	706.97	0.81
1830	60.20	0.766	12.72	631.55	0.84	12.22	670.14	0.77
2440	55.90	0.711	12.10	600.94	0.80	11.63	637.67	0.73
3050	51.80	0.659	11.51	571.27	0.76	11.05	606.18	0.69
3660	48.00	0.610	10.93	542.59	0.72	10.50	575.75	0.66

m = 0.765								
m.s.n.m	b	δ	T = 40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S	Go	Vo	C.S.
0	7 7 0 0	0.9 5 1	17.75	269.38	1.16	16.84	331.76	1.14
6 1 0	7 0.1 0	0.8 7 7	16.82	255.22	1.10	15.95	314.32	1.08
1 2 2 0	6 5 0 0	0.8 1 0	15.95	242.05	1.04	15.13	298.10	1.03
1 8 3 0	6 0.2 0	0.7 5 3	15.19	230.56	0.99	14.41	283.94	0.98
2 4 4 0	5 5.3 0	0.7 0 0	14.47	219.61	0.95	13.73	270.46	0.93
3 0 5 0	5 1.8 0	0.6 4 8	13.74	208.59	0.90	13.04	256.89	0.88
3 6 6 0	4 8 0 0	0.6 0 1	13.07	198.38	0.85	12.40	244.32	0.84

m = 0.765								
m.s.n.m	b	δ	T = 40°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo.	C.S.
0	7 0.0 0	0.9 5 1	15.68	438.94	1.01	15.19	579.55	1.00
6 1 0	7 0.1 0	0.8 7 7	14.85	415.86	0.96	14.39	549.08	0.95
1 2 2 0	6 5 0 0	0.8 1 0	14.09	394.40	0.91	13.65	520.74	0.90
1 8 3 0	6 0.2 0	0.7 5 3	13.42	375.68	0.86	13.00	496.02	0.85
2 4 4 0	5 5.9 0	0.7 0 0	12.78	357.84	0.82	12.38	472.46	0.81
3 0 5 0	5 1.8 0	0.6 4 8	12.14	339.89	0.78	11.76	448.76	0.77
3 6 6 0	4 8.0 0	0.6 0 1	11.54	323.25	0.74	11.19	426.79	0.73

m = 0.765								
m.s.n.m	b	δ	T = 40°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	7 0.0 0	0.9 5 1	14.69	729.53	0.97	14.12	774.11	0.89
6 1 0	7 0.1 0	0.8 7 7	13.92	691.17	0.92	13.38	733.41	0.84
1 2 2 0	6 5.0 0	0.8 1 0	13.20	655.51	0.87	12.68	695.56	0.80
1 8 3 0	6 0.2 0	0.7 5 3	12.58	624.38	0.83	12.08	662.54	0.76
2 4 4 0	5 5.9 0	0.7 0 0	11.98	594.73	0.79	11.51	631.07	0.72
3 0 5 0	5 1.8 0	0.6 4 8	11.38	564.90	0.75	10.93	599.42	0.69
3 6 6 0	4 8.0 0	0.6 0 1	10.82	537.24	0.71	10.40	570.07	0.65

m= 0.765

m.s.n.m	b	δ	T = 45°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	0.936	17.56	266.54	1.15	16.66	328.26	1.13
610	70.10	0.864	16.65	252.69	1.09	15.80	311.20	1.07
1220	65.00	0.800	15.82	240.06	1.03	15.01	295.64	1.02
1830	60.20	0.742	15.04	228.31	0.98	14.27	281.17	0.97
2440	55.90	0.689	14.32	217.30	0.94	13.58	267.62	0.92
3050	51.80	0.638	13.60	206.44	0.89	12.90	254.24	0.88
3660	48.00	0.591	12.93	196.18	0.84	12.26	241.60	0.83

m= 0.765

m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.936	15.51	434.31	1.00	15.03	573.44	0.99
610	70.10	0.864	14.71	411.74	0.95	14.25	543.64	0.94
1220	65.00	0.800	13.97	391.15	0.90	13.54	516.45	0.89
1830	60.20	0.742	13.29	372.01	0.85	12.87	491.18	0.85
2440	55.90	0.689	12.65	354.08	0.81	12.25	467.50	0.80
3050	51.80	0.638	12.01	336.38	0.77	11.64	444.14	0.76
3660	48.00	0.591	11.42	319.65	0.73	11.06	422.05	0.73

m= 0.765

m.s.n.m	b	δ	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.936	14.54	721.83	0.96	13.97	765.94	0.88
610	70.10	0.864	13.78	684.33	0.91	13.24	726.14	0.83
1220	65.00	0.800	13.09	650.10	0.86	12.58	689.83	0.79
1830	60.20	0.742	12.45	618.29	0.82	11.96	656.07	0.75
2440	55.90	0.689	11.85	588.48	0.78	11.39	624.44	0.72
3050	51.80	0.638	11.26	559.07	0.74	10.82	593.24	0.68
3660	48.00	0.591	10.70	531.27	0.70	10.28	563.73	0.65

m = 0,765									
m.s.n.m	b	δ	T = 50°C						
			400 KV	ACSR/AW 1272.0		500 KV.	ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	760.0	0.922	17.39	263.88	1.14	16.50	324.98	1.12
610	701.0	0.850	16.47	249.96	1.08	15.63	307.83	1.06
1220	650.0	0.790	15.69	238.05	1.03	14.88	293.17	1.01
1830	602.0	0.730	14.88	226.64	0.97	14.12	278.13	0.96
2440	559.0	0.678	14.16	214.98	0.93	13.44	264.76	0.91
3050	518.0	0.628	13.46	204.28	0.88	12.77	251.58	0.87
3660	480.0	0.582	12.79	194.18	0.84	12.14	239.14	0.82

m = 0,765									
m.s.n.m	b	δ	T = 50°C						
			750 KV.	ACSR/AW 1351.5		1000 KV.	ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.922	15.36	429.97	0.99	14.88	567.70	0.98
610	701.0	0.850	14.55	407.28	0.94	14.09	537.75	0.93
1220	650.0	0.790	13.85	387.88	0.89	13.42	512.14	0.88
1830	602.0	0.730	13.14	367.99	0.84	12.73	485.87	0.84
2440	559.0	0.678	12.51	350.30	0.80	12.12	462.51	0.80
3050	518.0	0.628	11.89	332.86	0.76	11.52	439.48	0.76
3660	480.0	0.582	11.30	316.40	0.73	10.95	417.75	0.72

m = 0,765									
m.s.n.m	b	δ	T = 50						
			1300 KV.	ACSR/AW 1351.5		1500 KV.	ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.922	14.39	714.62	0.95	13.83	758.29	0.87
610	701.0	0.850	13.63	676.91	0.90	13.10	718.28	0.82
1220	650.0	0.790	12.99	644.67	0.85	12.48	684.07	0.78
1830	602.0	0.730	12.32	611.60	0.81	11.83	648.98	0.74
2440	559.0	0.678	11.73	582.20	0.77	11.27	617.78	0.71
3050	518.0	0.628	11.14	553.22	0.73	10.70	587.02	0.67
3660	480.0	0.582	10.59	525.86	0.70	10.18	557.99	0.64

m= 0.765

m.s.n.m	b	δ	T=55°C					
			400 KV. ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	760.0	0.908	17.21	261.20	1.13	16.33	321.68	1.11
610	701.0	0.837	16.30	247.40	1.07	15.47	304.68	1.05
1220	650.0	0.780	15.58	236.04	1.02	14.78	290.67	1.00
1830	602.0	0.719	14.73	223.57	0.96	13.98	275.33	0.95
2440	559.0	0.668	14.03	212.86	0.92	13.31	262.15	0.90
3050	518.0	0.619	13.33	202.32	0.87	12.65	249.17	0.86
3660	480.0	0.573	12.66	192.17	0.83	12.01	236.67	0.81

m= 0.765

m.s.n.m	b	δ	T=55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Co.	Vo.	C.S.
0	760.0	0.908	15.20	425.61	0.98	14.73	561.94	0.97
610	701.0	0.837	14.40	403.12	0.93	13.95	532.25	0.92
1220	650.0	0.780	13.74	384.60	0.88	13.31	507.81	0.87
1830	602.0	0.719	13.01	364.28	0.84	12.61	480.97	0.83
2440	559.0	0.668	12.39	346.85	0.80	12.00	457.95	0.79
3050	518.0	0.619	11.77	329.67	0.76	11.41	435.27	0.75
3660	480.0	0.573	11.18	313.13	0.72	10.84	413.43	0.71

m= 0.765

m.s.n.m	b	δ	T=55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C.S.
0	760.0	0.908	14.25	707.37	0.94	13.69	750.59	0.86
610	701.0	0.837	13.50	669.99	0.89	12.97	710.94	0.82
1220	650.0	0.780	12.88	639.22	0.85	12.37	678.28	0.78
1830	602.0	0.719	12.19	605.44	0.80	11.72	642.58	0.74
2440	559.0	0.668	11.61	576.46	0.76	11.15	611.69	0.70
3050	518.0	0.619	11.04	547.92	0.73	10.60	581.40	0.67
3660	480.0	0.573	10.48	520.43	0.69	10.07	552.23	0.63

m = 0.765									
m.s.n.m	b	δ	T = 60°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo.	C.S.	
0	76.00	0.894	17.03	258.51	1.11	16.16	318.36	1.10	
610	70.10	0.825	16.15	245.03	1.06	15.32	301.77	1.04	
1220	65.00	0.770	15.42	234.02	1.01	14.63	288.20	0.99	
1830	60.20	0.708	14.58	221.28	0.95	13.83	272.51	0.94	
2440	55.90	0.658	13.88	210.73	0.91	13.17	259.53	0.89	
3050	51.80	0.609	13.19	200.14	0.86	12.51	246.48	0.85	
3660	48.00	0.565	12.54	190.38	0.82	11.90	234.46	0.81	

m = 0.765									
m.s.n.m	b	δ	T = 60°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	0.894	15.35	421.22	0.97	14.58	556.15	0.96	
610	70.10	0.825	14.26	399.26	0.92	13.82	527.15	0.91	
1220	65.00	0.770	13.62	381.31	0.88	13.20	503.46	0.87	
1830	60.20	0.708	12.88	360.56	0.83	12.48	476.05	0.82	
2440	55.90	0.658	12.26	343.36	0.79	11.88	453.37	0.78	
3050	51.80	0.609	11.65	326.11	0.75	11.28	430.57	0.74	
3660	48.00	0.565	11.06	310.21	0.71	10.73	409.58	0.70	

m = 0.765									
m.s.n.m	b	δ	T = 60°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	0.894	14.10	700.08	0.93	13.55	742.86	0.85	
610	70.10	0.825	13.37	663.57	0.88	12.84	704.13	0.81	
1220	65.00	0.770	12.76	633.75	0.84	12.26	672.47	0.77	
1830	60.20	0.708	12.07	599.25	0.79	11.60	635.87	0.73	
2440	55.90	0.658	11.49	570.70	0.76	11.04	605.57	0.69	
3050	51.80	0.609	10.92	542.00	0.72	10.49	575.12	0.66	
3660	48.00	0.565	10.36	515.57	0.68	9.98	547.08	0.63	

m = 0.72								
m.s.n.m	b	δ	T = -10° C					
			400 KV. ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.132	18.76	284.76	1.23	17.80	350.70	1.21
610	70.10	1.044	17.78	269.81	1.16	16.87	332.28	1.15
1220	65.00	0.970	16.93	256.90	1.11	16.06	316.39	1.09
1830	60.20	0.897	16.07	243.85	1.05	15.24	300.31	1.04
2440	55.90	0.833	15.29	232.11	1.00	14.51	285.65	0.99
3050	51.80	0.772	14.54	220.63	0.95	13.79	271.72	0.94
3660	48.00	0.715	13.81	209.63	0.90	13.10	258.17	0.89

m = 0.72								
m.s.n.m	b	δ	T = -10° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go	Vo.	C.S.
0	76.00	1.132	16.57	464.00	1.07	16.06	612.64	1.06
610	70.10	1.044	15.70	439.63	1.01	15.21	580.46	1.00
1220	65.00	0.970	14.95	418.60	0.96	14.49	552.70	0.95
1830	60.20	0.897	14.19	397.33	0.91	13.75	524.61	0.90
2440	55.90	0.833	13.51	378.20	0.87	13.09	499.35	0.86
3050	51.80	0.772	12.84	359.50	0.83	12.44	474.66	0.82
3660	48.00	0.715	12.20	341.58	0.78	11.82	451.00	0.78

m = 0.72								
m.s.n.m	b	δ	T = -10° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	1.132	15.53	771.18	1.02	14.92	818.30	0.94
610	70.10	1.044	14.72	730.68	0.97	14.14	775.33	0.89
1220	65.00	0.970	14.01	695.73	0.92	13.46	738.24	0.85
1830	60.20	0.897	13.30	660.37	0.87	12.78	700.72	0.80
2440	55.90	0.833	12.66	628.57	0.83	12.16	666.98	0.77
3050	51.80	0.772	12.03	597.50	0.79	11.56	634.01	0.73
3660	48.00	0.715	11.43	567.71	0.75	10.99	602.41	0.69

m= 0.72

m.s.n.m	b	δ	T=-5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	760.0	1.111	18.53	281.23	1.21	17.58	346.35	1.19
610	701.0	1.025	17.56	266.53	1.15	16.66	328.24	1.13
1220	650.0	0.950	16.69	253.36	1.09	15.84	312.02	1.08
1830	602.0	0.880	15.86	240.76	1.04	15.05	296.50	1.02
2440	559.0	0.817	15.10	229.12	0.99	14.32	282.18	0.97
3050	518.0	0.757	14.35	217.76	0.92	13.61	268.19	0.92
3660	480.0	0.702	13.64	207.08	0.89	12.94	255.03	0.88

m= 0.72

m.s.n.m	b	δ	T=-5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.111	16.37	458.24	1.05	15.86	605.04	1.04
610	701.0	1.025	15.51	434.28	1.00	15.03	573.40	0.99
1220	650.0	0.950	14.75	412.83	0.95	14.29	545.07	0.94
1830	602.0	0.880	14.01	392.29	0.90	13.58	517.96	0.89
2440	559.0	0.817	13.33	373.34	0.86	12.92	492.93	0.85
3050	518.0	0.757	12.67	354.83	0.81	12.28	468.49	0.81
3660	480.0	0.702	12.05	337.43	0.77	11.68	445.52	0.77

m= 0.72

m.s.n.m	b	δ	T=-5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.111	15.34	761.61	1.01	14.74	808.15	0.93
610	701.0	1.025	14.54	721.78	0.96	13.97	765.89	0.88
1220	650.0	0.950	13.82	686.13	0.91	13.28	728.06	0.84
1830	602.0	0.880	13.13	652.00	0.86	12.62	691.84	0.79
2440	559.0	0.817	12.50	620.50	0.82	12.01	658.42	0.76
3050	518.0	0.757	11.88	589.73	0.78	11.41	625.77	0.72
3660	480.0	0.702	11.30	560.81	0.74	10.85	595.08	0.68

m= 0.72

m.s.n.m	b	δ	T= 0° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.091	18.31	277.85	1.20	17.37	342.18	1.18
610	70.10	1.006	17.34	263.22	1.13	16.45	324.17	1.12
1220	65.00	0.930	16.46	[illegible]	[illegible]	[illegible]	307.63	1.06
1830	60.20	0.864	15.67	237.83	1.02	14.87	292.90	1.01
2440	55.90	0.802	14.91	226.31	0.97	14.15	278.71	0.96
3050	51.80	0.743	14.17	215.07	0.93	13.44	264.87	0.91
3660	48.00	0.689	13.48	204.52	0.88	12.78	251.87	0.87

m= 0.72

m.s.n.m	b	δ	T= 0° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go	Vo.	C S	Go.	Vo	C.S.
0	76.00	1.091	16.17	452.73	1.04	15.67	597.75	1.03
610	70.10	1.006	15.32	428.90	0.99	14.84	566.29	0.98
1220	65.00	0.930	14.54	407.01	0.93	14.09	537.40	0.93
1830	60.20	0.864	13.84	387.52	0.89	13.41	511.66	0.88
2440	55.90	0.802	13.17	368.76	0.85	12.76	486.88	0.84
3050	51.80	0.743	12.52	350.44	0.80	12.13	462.70	0.80
3660	48.00	0.689	11.90	333.25	0.76	11.53	440.00	0.76

m= 0.72

m.s.n.m	b	δ	T= 0° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.091	15.16	752.44	1.00	14.56	798.42	0.92
610	70.10	1.006	14.36	712.84	0.94	13.79	756.40	0.87
1220	65.00	0.930	13.63	676.47	0.90	13.09	717.81	0.82
1830	60.20	0.864	12.97	644.07	0.85	12.46	683.43	0.78
2440	55.90	0.802	12.34	612.88	0.81	11.86	650.33	0.75
3050	51.80	0.743	11.73	582.44	0.77	11.27	618.03	0.71
3660	48.00	0.689	11.16	553.87	0.73	10.72	587.71	0.67

m.s.n.m	b	δ	m= 0.72 T= 5°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	1.071	18.08	274.44	1.18	17.16	337.98	1.17
610	70.10	0.988	17.14	260.07	1.12	16.26	320.29	1.10
1220	65.00	0.920	16.34	248.00	1.07	15.50	305.42	1.05
1830	60.20	0.848	15.48	234.88	1.01	14.68	289.27	1.00
2440	55.90	0.788	14.74	223.67	0.96	13.98	275.46	0.95
3050	51.80	0.730	14.00	212.56	0.92	13.29	261.77	0.90
3660	48.00	0.676	13.30	201.94	0.87	12.62	248.70	0.86

m.s.n.m	b	δ	m= 0.72 T= 5°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	1.071	15.97	447.18	1.03	15.48	590.42	1.02
610	70.10	0.988	15.14	423.77	0.97	14.67	559.51	0.96
1220	65.00	0.920	14.43	404.09	0.93	13.98	533.54	0.92
1830	60.20	0.848	13.67	382.72	0.88	13.24	505.32	0.87
2440	55.90	0.788	13.02	364.45	0.84	12.61	481.20	0.83
3050	51.80	0.730	12.37	346.34	0.79	11.98	457.29	0.79
3660	48.00	0.676	11.75	329.04	0.75	11.39	434.45	0.75

m.s.n.m	b	δ	m= 0.72 T= 5°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S
0	76.00	1.071	14.97	743.22	0.99	14.38	788.64	0.91
610	70.10	0.988	14.19	704.31	0.93	13.63	747.35	0.86
1220	65.00	0.920	13.53	671.61	0.89	13.00	712.65	0.82
1830	60.20	0.848	12.81	636.10	0.84	12.31	674.97	0.77
2440	55.90	0.788	12.20	605.73	0.80	11.72	642.74	0.74
3050	51.80	0.730	11.59	575.63	0.76	11.14	610.80	0.70
3660	48.00	0.676	11.01	546.88	0.72	10.58	580.30	0.67

m= 0.72

m.s.n.m	b	δ	T=10°C					
			400 kV ACSR/AW 1272.0			500 kV. ACSR/AW [illegible]		
			Go.	Vo.	C S	Co	Vo	C.S.
0	760.0	1.052	17.87	271.19	1.17	16.95	333.97	1.15
610	701.0	0.970	16.93	276.00	1.11	16.06	316.39	1.09
1220	650.0	0.900	16.10	244.39	1.05	15.28	300.98	1.04
1830	600.0	0.833	15.29	232.11	1.00	14.51	285.85	0.97
2440	559.0	0.774	14.18	215.26	0.93	13.46	265.11	0.91
3050	518.0	0.717	13.84	210.02	0.90	13.13	258.65	0.89
3660	480.0	0.664	13.15	199.54	0.86	12.47	245.74	0.85

m= 0.72

m.s.n.m	b	δ	T=10°C					
			750 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW [illegible]		
			Go	Vo.	CS	Co	Vo	C.S.
0	760.0	1.052	15.78	441.87	1.02	15.29	583.42	1.01
610	701.0	0.970	14.95	418.60	0.96	14.49	552.70	0.95
1220	650.0	0.900	14.22	398.21	0.91	13.73	525.78	0.91
1830	600.0	0.833	13.51	378.20	0.87	13.09	499.35	0.86
2440	559.0	0.774	12.53	350.76	0.81	12.14	463.11	0.80
3050	518.0	0.717	12.22	342.22	0.79	11.81	451.84	0.78
3660	480.0	0.664	11.61	325.14	0.75	11.25	429.29	0.74

m= 0.72

m.s.m	b	δ	T=10°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Co	Vo.	CS	Co.	Vo	C.S.
0	760.0	1.052	14.79	734.40	0.97	14.21	779.28	0.89
610	701.0	0.970	14.01	695.73	0.92	13.46	738.24	0.85
1220	650.0	0.900	13.33	661.84	0.88	12.81	702.28	0.81
1830	600.0	0.833	12.66	628.57	0.83	12.16	666.98	0.77
2440	559.0	0.774	11.74	582.9[illegible]	0.77	11.28	618.59	0.71
3050	518.0	0.717	11.46	568.77	0.75	11.01	603.53	0.69
3660	480.0	0.664	10.88	540.39	0.71	10.46	573.41	0.66

m= 0.72

m.s.n/m	b	δ	T=15°C 400 KV. ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.034	17.66	268.08	1.16	16.76	330.15	1.14
610	70.10	0.954	16.74	254.07	1.10	15.88	312.90	1.08
1220	65.00	0.880	15.86	240.76	1.04	15.05	296.50	1.02
1830	60.20	0.819	15.12	229.50	0.99	14.35	282.64	0.97
2440	55.90	0.760	14.39	218.34	0.94	13.65	268.89	0.93
3050	51.80	0.705	13.68	207.67	0.89	12.98	255.76	0.88
3660	48.00	0.653	13.00	197.33	0.85	12.33	243.02	0.84

m= 0.72

m.s.n.m	b	δ	T=15°C 750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.034	15.60	436.82	1.00	15.12	576.75	0.99
610	70.10	0.954	14.79	413.99	0.95	14.33	546.60	0.94
1220	65.00	0.880	14.01	392.29	0.90	13.58	517.96	0.89
1830	60.20	0.819	13.36	373.95	0.86	12.94	493.74	0.85
2440	55.90	0.760	12.71	355.77	0.82	12.31	469.73	0.81
3050	51.90	0.705	12.09	338.39	0.78	11.71	446.79	0.77
3660	48.00	0.653	11.48	321.54	0.74	11.13	424.54	0.73

m= 0.72

m.s.n.m	b	δ	T=15°C 1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.034	14.62	726.00	0.96	14.05	770.37	0.88
610	70.10	0.954	13.86	688.06	0.91	13.31	730.10	0.84
1220	65.00	0.880	13.13	652.00	0.86	12.62	691.84	0.79
1830	60.20	0.819	12.52	621.51	0.82	12.03	659.49	0.76
2440	55.90	0.760	11.91	591.29	0.78	11.44	627.42	0.72
3050	51.90	0.705	11.33	562.41	0.74	10.88	596.78	0.68
3660	48.00	0.653	10.76	534.40	0.71	10.34	567.06	0.65

m.s.n.m	b	δ	m= 0.72 T= 20°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	760.0	1.016	17.40	264.96	1.14	16.56	326.31	1.13
610	701.0	0.937	16.54	251.04	1.08	15.69	309.17	1.07
1220	650.0	0.870	15.74	238.93	1.03	14.94	294.25	1.01
1830	602.0	0.805	14.95	226.88	0.98	14.18	279.41	0.96
2440	559.0	0.747	14.22	215.84	0.93	13.49	265.82	0.92
3050	518.0	0.693	13.53	205.31	0.88	12.83	252.85	0.87
3660	480.0	0.642	12.85	195.11	0.84	12.20	240.29	0.83

m.s.n.m	b	δ	m= 0.72 T= 20°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	760.0	1.016	15.42	431.73	0.99	14.94	570.03	0.98
610	701.0	0.937	14.61	409.05	0.94	14.16	540.09	0.93
1220	650.0	0.870	13.91	389.32	0.89	13.47	514.03	0.89
1830	602.0	0.805	13.20	369.67	0.85	12.79	488.09	0.84
2440	559.0	0.747	12.56	351.70	0.81	12.17	464.36	0.80
3050	518.0	0.693	11.95	334.54	0.77	11.58	441.70	0.76
3660	480.0	0.642	11.35	317.92	0.73	11.00	419.76	0.72

m.s.n.m	b	δ	m= 0.72 T= 20°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo	C.S.
0	760.0	1.016	14.45	717.55	0.95	13.89	761.40	0.87
610	701.0	0.937	13.69	679.86	0.90	13.16	721.40	0.83
1220	650.0	0.870	13.03	647.05	0.86	12.52	686.59	0.79
1830	602.0	0.805	12.38	614.41	0.81	11.89	651.95	0.75
2440	559.0	0.747	11.77	584.53	0.77	11.31	620.25	0.71
3050	518.0	0.693	11.20	556.01	0.74	10.76	589.99	0.68
3660	480.0	0.642	10.64	528.38	0.70	10.22	560.67	0.64

m = 0.72									
m.s.n.m	b	δ	T = 25°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.000	17.28	262.17	1.13	16.39	322.88	1.11
610	701.0	0.922	16.36	248.36	1.07	15.53	305.86	1.05
1220	650.0	0.860	15.62	237.09	1.02	14.82	291.92	1.01
1830	600.2	0.791	14.77	224.24	0.97	14.02	276.16	0.95
2440	559.0	0.735	14.07	213.52	0.92	13.35	262.96	0.91
3050	518.0	0.681	13.37	202.93	0.87	12.68	249.92	0.86
3660	480.0	0.631	12.71	192.88	0.83	12.06	237.53	0.82

m = 0.72									
m.s.n.m	b	δ	T = 25°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	CS	Go.	Vo	C.S.
0	760.0	1.000	15.26	427.19	0.98	14.78	564.03	0.97
610	701.0	0.922	14.45	404.68	0.93	14.00	534.31	0.92
1220	650.0	0.860	13.80	386.33	0.89	13.37	510.08	0.88
1830	600.2	0.791	13.05	365.38	0.84	12.64	482.42	0.83
2440	559.0	0.735	12.43	347.92	0.80	12.04	459.37	0.79
3050	518.0	0.681	11.81	330.66	0.76	11.44	436.59	0.75
3660	480.0	0.631	11.22	314.27	0.72	10.87	414.95	0.71

m = 0.72									
msnm	b	δ	T = 25°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.000	14.30	710.00	0.94	13.74	753.39	0.89
610	701.0	0.922	13.55	672.58	0.89	13.02	713.68	0.82
1220	650.0	0.860	12.93	642.08	0.85	12.43	681.32	0.78
1830	600.2	0.791	12.23	607.26	0.80	11.75	644.37	0.74
2440	559.0	0.735	11.65	578.25	0.77	11.19	613.59	0.70
3050	518.0	0.681	11.07	549.57	0.73	10.63	583.15	0.67
3660	480.0	0.631	10.52	522.33	0.69	10.11	554.25	0.63

m= 0,72

m.s.n.m	b	δ	T = 30°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	76.00	0.983	17.08	259.19	1.12	16.20	319.21	1.10
610	70.10	0.906	16.17	245.48	1.06	15.35	302.31	1.04
1220	65.00	0.840	15.38	233.40	1.01	14.59	287.45	0.99
1830	60.20	0.778	14.61	221.77	0.96	13.86	273.12	0.94
2440	55.90	0.723	13.91	211.19	0.91	13.20	260.09	0.90
3050	51.80	0.670	13.23	200.74	0.86	12.55	247.22	0.85
3660	48.00	0.620	12.56	190.63	0.82	11.92	234.76	0.81

m= 0,72

m.s.n.m	b	δ	T = 30°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	76.00	0.983	15.09	422.34	0.97	14.62	557.62	0.96
610	70.10	0.906	14.29	399.98	0.92	13.84	528.11	0.91
1220	65.00	0.840	13.58	380.31	0.87	13.16	502.14	0.86
1830	60.20	0.778	12.91	361.36	0.83	12.50	477.12	0.82
2440	55.90	0.723	12.29	344.12	0.79	11.91	454.36	0.78
3050	51.80	0.670	11.68	327.09	0.75	11.32	431.87	0.74
3660	48.00	0.620	11.09	310.61	0.71	10.75	410.11	0.71

m= 0,72

m.s.n.m	b	δ	T = 30°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C.S.
0	76.00	0.983	14.14	701.93	0.93	13.58	744.82	0.86
610	70.10	0.906	13.39	664.78	0.88	12.86	705.40	0.81
1220	65.00	0.840	12.73	632.09	0.84	12.23	670.71	0.77
1830	60.20	0.778	12.10	600.59	0.80	11.62	637.29	0.73
2440	55.90	0.723	11.52	571.94	0.76	11.07	606.89	0.70
3050	51.80	0.670	10.95	543.64	0.72	10.52	576.86	0.66
3660	48.00	0.620	10.40	516.24	0.68	9.99	547.79	0.63

m = 0.72									
m.s.n.m	b	δ	T = 35 °C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	CS	Go	Vo		C.S.
0	76.00	0.967	16.89	256.37	1.11	16.03	315.73		1.09
610	70.10	0.892	16.01	242.94	1.05	15.19	299.19		1.03
1220	65.00	0.830	15.26	231.55	1.00	14.47	285.16		0.96
1830	60.20	0.766	14.46	219.40	0.95	13.72	270.31		0.93
2440	55.90	0.711	13.76	208.85	0.90	13.05	257.21		0.89
3050	51.80	0.659	13.08	198.54	0.85	12.41	244.51		0.84
3660	48.00	0.610	12.42	188.57	0.81	11.79	232.23		0.80

m = 0.72									
m.s.n.m	b	δ	T = 35 °C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go	Vo	CS	Go.	Vo.		C.S.
0	76.00	0.967	14.92	417.74	0.96	14.46	551.56		0.95
610	70.10	0.892	14.14	395.85	0.91	13.70	522.66		0.90
1220	65.00	0.830	13.48	377.29	0.87	13.06	498.15		0.86
1830	60.20	0.766	12.77	357.64	0.82	12.38	472.20		0.81
2440	55.90	0.711	12.15	340.31	0.78	11.78	449.32		0.77
3050	51.80	0.659	11.55	323.50	0.74	11.19	427.13		0.73
3660	48.00	0.610	10.97	307.26	0.70	10.63	405.69		0.70

m = 0.72									
m.s.n.m	b	δ	T = 35 °C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo	CS	Go.	Vo.		C.S.
0	76.00	0.967	13.98	689.29	0.92	13.44	736.72		0.85
610	70.10	0.892	13.25	657.91	0.87	12.73	698.12		0.80
1220	65.00	0.830	12.63	627.06	0.83	12.13	665.38		0.76
1830	60.20	0.766	11.97	594.40	0.79	11.50	630.72		0.72
2440	55.90	0.711	11.39	565.59	0.75	10.94	600.16		0.69
3050	51.80	0.659	10.83	537.67	0.71	10.40	570.53		0.65
3660	48.00	0.610	10.29	510.68	0.68	9.88	541.88		0.62

m = 0.72								
m.s.n.m	b	δ	T = 40°C					
			>400 KV	ACSR/AW 1272.0		500 KV.	ACSR/AW 1113.5	
			Go.	Vo.	C S	Go	Vo	C.S.
0	7600	0.951	16.71	253.54	1.09	15.85	312.24	1.08
610	7010	0.877	15.53	240.21	1.04	15.02	295.83	1.02
1220	6500	0.810	15.01	227.81	0.98	14.24	280.56	0.97
1830	6020	0.753	14.30	217.00	0.93	13.56	267.24	0.92
2440	5590	0.700	13.62	206.69	0.89	12.92	254.55	0.88
3050	5180	0.648	12.93	196.32	0.85	12.27	241.78	0.83
3660	4800	0.601	12.30	186.71	0.80	11.67	229.94	0.79

m = 0.72								
m.s.n.m	b	δ	T = 40°C					
			750 KV.	ACSR/AW 1351.5		1000 KV.	ACSR/AW 1272.0	
			Go.	Vo.	C S	Go.	Vo	C.S.
0	7600	0.951	14.76	413.12	0.95	14.30	545.45	0.94
610	7010	0.877	13.98	391.40	0.90	13.54	516.78	0.89
1220	6500	0.810	13.26	371.20	0.85	12.85	490.11	0.84
1830	6020	0.753	12.63	353.58	0.81	12.24	466.84	0.80
2440	5590	0.700	12.03	336.79	0.77	11.65	444.67	0.77
3050	5180	0.648	11.43	319.89	0.73	11.09	422.37	0.73
3660	4800	0.601	10.87	304.23	0.70	10.53	401.69	0.69

m = 0.72								
m.s.n.m	b	δ	T = 40°C					
			1300 KV.	ACSR/AW 1351.5		1500 KV.	ACSR/AW 1590.0	
			Go	Vo.	CS	Go.	Vo	C.S.
0	7600	0.951	13.83	686.61	0.91	13.29	728.57	0.84
610	7010	0.877	13.10	650.52	0.86	12.59	690.27	0.79
1220	6500	0.810	12.43	616.95	0.82	11.94	654.65	0.75
1830	6020	0.753	11.84	587.65	0.78	11.37	623.57	0.72
2440	5590	0.700	11.27	559.75	0.74	10.83	593.95	0.68
3050	5180	0.648	10.71	531.67	0.70	10.29	564.16	0.65
3660	4800	0.601	10.18	505.64	0.67	9.78	536.54	0.61

m = 0.72									
msnm	b	f	T = 45°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	76.00	0.936	16.53	250.86	1.08	15.68	308.95	1.07	
610	70.10	0.864	15.67	237.83	1.02	14.87	292.90	1.01	
1220	65.00	0.800	14.69	225.93	0.97	14.12	278.25	0.96	
1830	60.20	0.742	14.16	214.88	0.93	13.43	264.63	0.91	
2440	55.90	0.689	13.48	204.52	0.88	12.78	251.87	0.87	
3050	51.80	0.638	12.80	194.30	0.84	12.15	239.29	0.82	
3660	48.00	0.591	12.16	184.64	0.79	11.54	227.39	0.78	

m = 0.72									
msnm	b	f	T = 45°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C S	Go.	Vo.	C.S.	
0	76.00	0.936	14.60	408.76	0.94	14.15	539.70	0.93	
610	70.10	0.864	13.84	387.52	0.89	13.41	511.66	0.88	
1220	65.00	0.800	13.15	368.14	0.85	12.74	486.07	0.84	
1830	60.20	0.742	12.61	350.13	0.80	12.12	462.28	0.80	
2440	55.90	0.689	11.90	333.25	0.76	11.53	440.00	0.76	
3050	51.80	0.638	11.31	316.59	0.73	10.96	418.01	0.72	
3660	48.00	0.591	10.74	300.85	0.69	10.41	397.22	0.68	

m = 0.72									
msnm	b	f	T = 45°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	0.936	13.68	679.37	0.90	13.15	720.89	0.83	
610	70.10	0.864	12.97	644.07	0.85	12.46	683.43	0.78	
1220	65.00	0.800	12.32	611.86	0.81	11.84	649.25	0.74	
1830	60.20	0.742	11.72	581.92	0.77	11.2[illegible]	617.48	0.71	
2440	55.90	0.689	11.16	553.87	0.73	10.72	587.71	0.67	
3050	51.80	0.638	10.60	526.19	0.70	10.18	558.34	0.64	
3660	48.00	0.591	10.07	509.02	0.66	9.67	530.57	0.61	

m = 0.72								
m.s.n.m	b	δ	T = 50°C					
			400 KV	ACSR/AW 1272.0		500 KV.	ACSR/AW [illegible]	
			Go.	Vo.	C S	Go.	Vo	C.S.
0	76.00	0.922	16.36	248.36	1.07	15.53	305.86	1.05
610	70.10	0.850	15.50	235.25	1.01	14.71	289.72	1.00
1220	65.00	0.790	14.76	224.05	0.97	14.01	275.92	0.95
1830	60.20	0.730	14.00	212.56	0.92	13.29	261.77	0.90
2440	55.90	0.678	13.33	202.34	0.87	12.65	249.19	0.86
3050	51.80	0.628	12.67	192.26	0.83	12.02	236.78	0.82
3660	48.00	0.582	12.04	182.76	0.79	11.40	225.07	0.77

m = 0.72								
m.s.n.m	b	δ	T = 50°C					
			750 KV.	ACSR/AW 1351.5		1000 KV.	ACSR/AW 1272.0	
			Go.	Vo.	CS	Go	Vo	C.S.
0	76.00	0.922	14.45	404.68	0.93	14.00	534.31	0.92
610	70.10	0.850	13.69	383.33	0.88	13.27	506.12	0.87
1220	65.00	0.790	13.04	365.07	0.84	12.63	482.01	0.83
1830	60.20	0.730	12.37	346.34	0.79	11.99	457.29	0.79
2440	55.90	0.678	11.78	329.69	0.76	11.41	435.30	0.75
3050	51.80	0.628	11.19	313.28	0.72	10.84	413.63	0.71
3660	48.00	0.582	10.64	297.79	0.68	10.30	393.18	0.68

m = 0.72								
m.s.n.m	b	δ	T = 50					
			1300 KV.	ACSR/AW 1351.5		1500 KV.	ACSR/AW 1590.0	
			Go	Vo.	CS	Go.	Vo	C.S.
0	76.00	0.922	13.55	672.58	0.89	13.02	713.68	0.82
610	70.10	0.850	12.83	637.10	0.84	12.33	676.03	0.78
1220	65.00	0.790	12.22	606.75	0.80	11.74	643.83	0.74
1830	60.20	0.730	11.59	575.63	0.76	11.14	610.80	0.70
2440	55.90	0.678	11.04	547.96	0.73	10.60	581.44	0.67
3050	51.80	0.628	10.49	520.67	0.69	10.07	552.49	0.63
3660	48.00	0.582	9.97	494.93	0.65	9.58	525.17	0.60

m = 0.72								
m.s.n.m	p	δ	T = 55°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	0.908	16.20	245.84	1.06	15.37	302.76	1.04
610	70.10	0.837	15.34	232.85	1.00	14.56	286.76	0.99
1220	65.00	0.780	14.64	222.15	0.96	13.89	273.59	0.94
1830	60.20	0.719	13.86	210.41	0.91	13.15	259.13	0.89
2440	55.90	0.668	13.20	200.34	0.86	12.52	246.73	0.85
3050	51.80	0.619	12.55	190.42	0.82	11.90	234.51	0.81
3660	48.00	0.573	11.92	180.87	0.78	11.31	222.75	0.77

m = 0.72								
m.s.n.m	b	δ	T = 55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	760.0	0.908	14.31	400.57	0.92	13.86	528.89	0.91
610	701.0	0.837	13.55	379.41	0.87	13.13	500.94	0.86
1220	650.0	0.780	12.93	361.98	0.83	12.53	477.93	0.82
1830	602.0	0.719	12.25	342.85	0.79	11.86	452.68	0.78
2440	559.0	0.668	11.66	326.44	0.75	11.30	431.01	0.74
3050	518.0	0.619	11.08	310.28	0.71	10.74	409.67	0.70
3660	480.0	0.573	10.53	294.71	0.68	10.20	389.11	0.67

m = 0.72								
m.s.n.m	b	δ	T = 55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo	CS	Go.	Vo.	C.S.
0	760.0	0.908	13.41	665.76	0.88	12.88	706.44	0.81
610	701.0	0.837	12.70	630.58	0.84	12.20	669.12	0.77
1220	650.0	0.780	12.12	601.62	0.80	11.64	638.38	0.73
1830	602.0	0.719	11.48	569.83	0.75	11.03	604.65	0.69
2440	559.0	0.668	10.93	542.55	0.72	10.50	575.71	0.66
3050	518.0	0.619	10.39	515.69	0.68	9.98	547.20	0.63
3660	480.0	0.573	9.86	489.81	0.65	9.48	519.74	0.60

m= 0.72								
m.s.n.m	b	δ	T= 60°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1111.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	0.894	16.03	243.30	1.05	15.21	299.64	1.03
610	70.10	0.825	15.20	230.62	0.99	14.42	284.01	0.98
1220	65.00	0.770	14.51	220.25	0.95	13.77	271.25	0.93
1830	60.20	0.708	13.72	208.26	0.90	13.02	256.48	0.88
2440	55.90	0.656	13.07	198.34	0.85	12.40	244.26	0.84
3050	51.80	0.609	12.41	188.37	0.81	11.77	231.98	0.80
3660	48.00	0.565	11.80	179.18	0.77	11.20	220.67	0.76

m= 0.72								
m.s.n.m	b	δ	T= 60°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.894	14.16	396.44	0.91	13.72	523.44	0.90
610	70.10	0.825	13.42	375.77	0.86	13.00	496.14	0.85
1220	65.00	0.770	12.82	358.88	0.82	12.42	473.84	0.82
1830	60.20	0.708	12.12	339.35	0.78	11.74	448.05	0.77
2440	55.90	0.658	11.54	323.18	0.74	11.18	426.70	0.73
3050	51.90	0.609	10.96	306.93	0.70	10.62	405.25	0.70
3660	48.00	0.565	10.43	291.96	0.67	10.10	385.48	0.66

m= 0.72								
m.s.n.m	b	δ	T= 60°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	C.S	Go.	Vo	C.S.
0	76.00	0.894	13.27	658.90	0.87	12.75	699.16	0.80
610	70.10	0.825	12.58	624.54	0.83	12.09	662.71	0.76
1220	65.00	0.770	12.01	596.47	0.79	11.54	632.92	0.73
1830	60.20	0.708	11.36	564.00	0.75	10.91	598.47	0.69
2440	55.90	0.658	10.82	537.13	0.71	10.39	569.95	0.65
3050	51.90	0.609	10.27	510.12	0.67	9.87	541.29	0.62
3660	48.00	0.565	9.77	485.24	0.64	9.39	514.89	0.59

m= 0.7

m.s.n.m	b	δ	T= -10° C					
			400 KV. ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	7660	1.132	15.24	276.85	1.19	17.31	340.96	1.18
610	7010	1.044	17.28	262.31	1.13	16.40	323.05	1.11
1220	6500	0.970	16.46	249.77	1.08	15.61	307.60	1.06
1830	6020	0.897	15.62	237.07	1.02	14.82	291.97	1.01
2440	5590	0.833	14.87	225.66	0.97	14.11	277.91	0.96
3050	5180	0.772	14.13	214.50	0.92	13.41	264.17	0.91
3660	4800	0.715	13.43	203.81	0.88	12.74	251.00	0.86

m= 0.7

m.s.n.m	b	δ	T= -10° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	7660	1.132	16.11	451.11	1.04	15.61	595.62	1.03
610	7010	1.044	15.27	427.42	0.98	14.79	564.34	0.97
1220	6500	0.970	14.54	406.98	0.93	14.08	537.34	0.93
1830	6020	0.897	13.80	386.29	0.89	13.37	510.03	0.88
2440	5590	0.833	13.13	367.69	0.84	12.72	485.48	0.84
3050	5180	0.772	12.48	349.52	0.80	12.09	461.48	0.79
3660	4800	0.715	11.86	332.09	0.76	11.49	438.47	0.75

m= 0.7

m.s.n.m	b	δ	T= -10° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go	Vo.	C.S.
0	7600	1.132	15.10	749.76	0.99	14.51	795.57	0.91
610	7010	1.044	14.31	710.38	0.94	13.75	753.79	0.87
1220	6500	0.970	13.62	676.40	0.90	13.09	717.24	0.82
1830	6020	0.897	12.93	642.03	0.85	12.42	681.26	0.78
2440	5590	0.833	12.31	611.11	0.81	11.83	648.46	0.74
3050	5180	0.772	11.70	580.90	0.77	11.24	616.40	0.71
3660	4800	0.715	11.12	551.94	0.73	10.68	585.67	0.67

m = 0.7									
m.s.n.m	b	δ	T = -5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1810.5			
			Go.	Vo.	C S	Go.	Vo.	C.S.	
0	7 6.0 0	1.1 1 1	18.02	273.42	1.18	17.09	336.73	1.16	
6 1 0	7 0.1 0	1.0 2 5	17.07	259.12	1.12	16.20	319.12	1.10	
1 2 2 0	6 5.0 0	0.9 5 0	16.23	246.32	1.06	15.40	303.36	1.05	
1 8 3 0	6 0.2 0	0.8 8 0	15.42	234.07	1.01	14.63	288.26	0.99	
2 4 4 0	5 5.9 0	0.8 1 7	14.68	222.76	0.96	13.92	274.34	0.95	
3 0 5 0	5 1.8 0	0.7 5 7	13.95	211.72	0.91	15.23	260.74	0.90	
3 6 6 0	4 8.0 0	0.7 0 2	13.26	201.33	0.87	12.58	247.95	0.85	

m = 0.7									
m.s.n.m	b	δ	T = -5°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	7 6.0 0	1.1 1 1	15.91	445.52	1.02	15.42	588.23	1.01	
6 1 0	7 0.1 0	1.0 2 5	15.08	422.22	0.97	14.61	557.47	0.96	
1 2 2 0	6 5.0 0	0.9 5 0	14.34	401.36	0.92	13.89	529.93	0.91	
1 8 3 0	6 0.2 0	0.8 8 0	13.62	381.40	0.88	13.20	503.57	0.87	
2 4 4 0	5 5.9 0	0.8 1 7	12.96	362.97	0.83	12.56	479.24	0.83	
3 0 5 0	5 1.8 0	0.7 5 7	12.32	344.97	0.79	11.94	455.48	0.78	
3 6 6 0	4 8.0 0	0.7 0 2	11.72	328.05	0.75	11.35	433.14	0.75	

m = 0.7									
m.s.n.m	b	δ	T = -5°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1810.5			
			Go	Vc.	CS	Go.	Vo	C.S	
0	76.0 0	1.1 1 1	14.92	740.46	0.98	14.33	785.70	0.90	
6 1 0	7 0.1 0	1.0 2 5	14.13	701.73	0.93	13.58	744.62	0.85	
1 2 2 0	6 5.0 0	0.9 5 0	13.44	667.07	0.88	12.91	707.84	0.81	
1 8 3 0	6 0.2 0	0.8 8 0	12.77	633.89	0.84	12.27	672.62	0.77	
2 4 4 0	5 5.9 0	0.8 1 7	12.15	603.26	0.80	11.67	640.13	0.73	
3 0 5 0	5 1.8 0	0.7 5 7	11.55	573.35	0.76	11.09	608.39	0.70	
3 6 6 0	4 8.0 0	0.7 0 2	10.98	545.23	0.72	10.55	578.55	0.66	

m = 0.7									
m.s.n.m	b	δ	T = 0°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.091	17.80	270.13	1.16	16.89	332.67	1.15
610	70.10	1.006	16.80	255.91	1.10	16.00	315.16	1.09
1220	65.00	0.930	16.00	242.85	1.05	15.18	299.08	1.03
1830	60.20	0.864	15.24	231.22	1.00	14.45	284.76	0.98
2440	55.90	0.802	14.50	220.02	0.95	13.75	270.97	0.93
3050	51.80	0.743	13.78	209.10	0.90	13.07	257.51	0.89
3660	48.00	0.689	13.10	198.84	0.86	12.43	244.88	0.84

m = 0.7									
m.s.n.m	b	δ	T = 0°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.091	15.72	440.15	1.01	15.23	581.15	1.00
610	70.10	1.006	14.89	416.98	0.96	14.43	50.56	0.95
1220	65.00	0.930	14.13	395.71	0.91	13.69	522.47	0.90
1830	60.20	0.864	13.46	376.76	0.87	13.04	497.45	0.86
2440	55.90	0.802	12.81	358.51	0.82	12.41	473.36	0.81
3050	51.80	0.743	12.17	340.71	0.78	11.79	449.85	0.77
3660	48.00	0.689	11.57	323.99	0.74	11.21	427.78	0.74

m = 0.7									
m.s.n.m	b	δ	T = 0° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.091	14.74	731.54	0.97	14.16	776.25	0.89
610	70.10	1.006	13.96	693.04	0.92	13.41	735.39	0.84
1220	65.00	0.930	13.25	657.68	0.87	12.73	697.87	0.80
1830	60.20	0.864	12.61	626.18	0.83	12.12	664.45	0.76
2440	55.90	0.802	12.00	595.85	0.79	11.53	632.27	0.73
3050	51.80	0.743	11.41	566.26	0.75	10.96	600.86	0.69
3660	48.00	0.689	10.85	538.48	0.71	10.42	571.39	0.65

m.s.n.m	b	δ	m= 0.7 T= 5°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	1.071	17.58	266.82	1.15	16.68	328.60	1.13
610	70.10	0.988	16.66	252.85	1.09	15.81	311.39	1.07
1220	65.00	0.920	15.89	241.11	1.04	15.07	296.96	1.02
1830	60.20	0.848	15.05	228.36	0.98	14.27	281.23	0.97
2440	55.90	0.788	14.33	217.46	0.94	13.59	267.81	0.92
3050	51.80	0.730	13.62	206.65	0.89	12.92	254.50	0.88
3660	48.00	0.676	12.94	196.33	0.85	12.27	241.79	0.83

m.s.n.m	b	δ	m= 0.7 T= 5°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go	Vo.	C.S.
0	76.00	1.071	15.53	434.76	1.00	15.05	574.02	0.99
610	70.10	0.988	14.72	411.99	0.95	14.26	543.97	0.94
1220	65.00	0.920	14.03	392.87	0.90	13.60	518.72	0.89
1830	60.20	0.848	13.29	372.09	0.85	12.88	491.29	0.85
2440	55.90	0.788	12.64	354.33	0.81	12.26	467.83	0.81
3050	51.80	0.730	12.03	336.72	0.77	11.65	444.58	0.77
3660	48.00	0.676	11.43	319.90	0.73	11.07	422.38	0.73

m.s.n.m	b	δ	m= 0.7 T= 5°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S
0	76.00	1.071	14.55	722.57	0.96	13.98	766.73	0.88
610	70.10	0.988	13.79	684.74	0.91	13.25	726.59	0.83
1220	65.00	0.920	13.15	652.95	0.86	12.64	692.85	0.80
1830	60.20	0.848	12.46	618.43	0.82	11.97	656.22	0.75
2440	55.90	0.788	11.86	588.90	0.78	11.40	624.89	0.72
3050	51.80	0.730	11.27	559.64	0.74	10.83	593.84	0.68
3660	48.00	0.676	10.71	531.69	0.70	10.29	564.18	0.65

m = 0,7								
m.s.n.m	b	δ	T = 10° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.052	17.37	263.65	1.14	16.48	324.70	1.12
610	70.10	0.970	16.46	249.77	1.08	15.61	307.60	1.06
1220	65.00	0.900	15.66	237.60	1.02	14.85	292.62	1.01
1830	60.20	0.833	14.87	225.66	0.97	14.11	277.91	0.96
2440	55.90	0.774	13.79	209.28	0.90	13.08	257.74	0.89
3050	51.80	0.717	13.45	204.19	0.88	12.76	251.47	0.87
3660	48.00	0.664	12.78	194.00	0.84	12.13	238.92	0.82

m = 0,7								
m.s.n.m	b	δ	T = 10° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.052	15.35	429.60	0.99	14.87	567.21	0.98
610	70.10	0.970	14.54	406.98	0.93	14.08	537.34	0.93
1220	65.00	0.900	13.83	387.15	0.89	13.40	511.17	0.88
1830	60.20	0.833	13.13	367.69	0.84	12.72	485.48	0.84
2440	55.90	0.774	12.18	341.01	0.78	11.80	450.25	0.77
3050	51.80	0.717	11.88	332.71	0.76	11.51	439.29	0.76
3660	48.00	0.664	11.29	316.11	0.73	10.94	417.37	0.72

m = 0,7								
m.s.n.m.	b	δ	T = 10° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.052	14.38	714.00	0.95	13.82	757.64	0.87
610	70.10	0.970	13.62	676.40	0.90	13.09	717.74	0.82
1220	65.00	0.900	12.96	643.46	0.85	12.45	682.78	0.78
1830	60.20	0.833	12.31	611.11	0.81	11.83	648.46	0.74
2440	55.90	0.774	11.42	566.77	0.75	10.97	601.40	0.69
3050	51.80	0.717	11.14	552.97	0.73	10.70	586.76	0.67
3660	48.00	0.664	10.58	525.38	0.69	10.17	557.48	0.64

m = 0.7									
m.s.n.m	b	δ	T = 15°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo		C.S.
0	76.00	1.034	17.17	260,64	1.12	16.29	320.98		1.11
610	70.10	0.954	16.28	247.01	1.06	15.44	304.21		1.05
1220	65.00	0.880	15.42	234.07	1.01	14.63	288.26		0.99
1830	60.20	0.819	14.70	223.12	0.96	13.95	274.78		0.95
2440	55.90	0.760	13.99	212.27	0.91	13.27	261.42		0.90
3050	51.80	0.705	13.30	201.91	0.87	12.62	248.65		0.86
3660	48.00	0.653	12.64	191.85	0.83	11.99	236.27		0.81

m = 0.7									
m.s.n.m	b	δ	T = 15°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo		C.S.
0	76.00	1.034	15.17	424.69	0.98	14.70	560.73		0.97
610	70.10	0.954	14.38	402.49	0.92	13.93	531.42		0.92
1220	65.00	0.880	13.62	381.40	0.88	13.20	503.57		0.87
1830	60.20	0.819	12.99	363.56	0.83	12.55	480.02		0.83
2440	55.90	0.760	12.35	345.88	0.79	11.97	456.68		0.79
3050	51.80	0.705	11.75	328.99	0.75	11.38	434.37		0.75
3660	48.00	0.653	11.16	312.61	0.72	10.82	412.74		0.71

m = 0.7									
m.s.n.m	b	δ	T = 15°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	C.S	Go.	Vo.		C.S.
0	76.00	1.034	14.22	705.84	0.94	13.66	748.97		0.86
610	70.10	0.954	13.47	668.94	0.89	12.94	709.82		0.81
1220	65.00	0.880	12.77	633.89	0.84	12.27	672.62		0.77
1830	60.20	0.819	12.17	604.25	0.80	11.69	641.17		0.74
2440	55.90	0.760	11.58	574.87	0.76	11.12	610.00		0.70
3050	51.80	0.705	11.01	546.79	0.72	10.58	580.20		0.66
3660	48.00	0.653	10.46	519.56	0.69	10.05	551.31		0.63

m= 0.7

m.s.n.m	b	δ	T=20°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	760.0	1.016	16.97	257.60	1.11	16.10	317.25	1.09
610	701.0	0.937	16.08	244.07	1.05	15.26	300.58	1.04
1220	650.0	0.870	15.31	232.29	1.00	14.52	286.08	0.99
1830	602.0	0.805	14.53	220.57	0.95	13.79	271.64	0.94
2440	559.0	0.747	13.83	209.85	0.90	13.12	258.43	0.89
3050	518.0	0.693	13.15	199.61	0.86	12.48	245.82	0.85
3660	480.0	0.642	12.50	189.69	0.82	11.86	233.61	0.80

m= 0.7

m.s.n.m	b	δ	T=20°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	1.016	14.99	419.74	0.96	14.53	554.20	0.95
610	701.0	0.937	14.20	397.69	0.91	13.76	525.09	0.90
1220	650.0	0.870	13.52	378.50	0.87	13.10	499.75	0.86
1830	602.0	0.805	12.84	359.41	0.83	12.44	474.54	0.82
2440	559.0	0.747	12.21	341.93	0.78	11.83	451.46	0.78
3050	518.0	0.693	11.62	325.24	0.75	11.25	429.43	0.74
3660	480.0	0.642	11.04	309.09	0.71	10.70	408.10	0.70

m= 0.7

m.s.n.m	b	δ	T=20°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	1.016	14.05	697.62	0.92	13.50	740.25	0.85
610	701.0	0.937	13.31	660.97	0.88	12.79	701.36	0.80
1220	650.0	0.870	12.67	629.08	0.83	12.17	667.52	0.77
1830	602.0	0.805	12.03	597.34	0.79	11.56	633.84	0.73
2440	559.0	0.747	11.45	568.29	0.75	11.00	603.02	0.69
3050	518.0	0.693	10.89	540.56	0.72	10.46	573.60	0.66
3660	480.0	0.642	10.35	513.71	0.68	9.94	545.10	0.62

m.s.n.m	b	δ	m= 0,7 T= 25·C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	1,000	16.80	254.89	1.10	15.93	313.91	1.08
610	70.10	0.922	15.91	241.46	1.04	15.09	297.37	1.03
1220	65.00	0.860	15.19	230.51	0.99	14.41	283.88	0.98
1830	60.20	0.791	14.36	218.01	0.94	13.63	268.49	0.93
2440	55.90	0.735	13.68	207.59	0.89	12.98	255.66	0.88
3050	51.80	0.681	13.00	197.30	0.85	12.33	242.98	0.84
3660	48.00	0.631	12.35	187.52	0.81	11.72	230.94	0.79

m.s.n.m	b	δ	m= 0,7 T= 25·C 750 KV ACSR/AW 1351.5 Go.	Vo.	C.S	1000KV ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	1.000	14.84	415.32	0.95	14.37	548.37	0.94
610	70.10	0.922	14.05	393.44	0.90	13.62	519.47	0.89
1220	65.00	0.860	13.42	375.59	0.86	13.00	495.91	0.85
1830	60.20	0.791	12.69	355.23	0.82	12.29	469.02	0.81
2440	55.90	0.735	12.08	338.26	0.78	11.71	446.61	0.77
3050	51.80	0.681	11.48	321.48	0.74	11.12	424.46	0.73
3660	48.00	0.631	10.91	305.54	0.70	10.57	403.42	0.69

m.s.n.m	b	δ	m= 0,7 T= 25·C 1300 KV ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.000	13.90	690.28	0.91	13.36	732.46	0.84
610	70.10	0.922	13.17	653.90	0.87	12.65	693.86	0.80
1220	65.00	0.860	12.57	624.25	0.83	12.08	662.39	0.76
1830	60.20	0.791	11.89	590.39	0.78	11.42	626.47	0.72
2440	55.90	0.735	11.32	562.19	0.74	10.88	596.54	0.68
3050	51.80	0.681	10.76	534.31	0.71	10.34	566.96	0.65
3660	48.00	0.631	10.23	507.82	0.67	9.83	538.85	0.62

m = 0.7								
m.s.n.m	b	δ	T = 30° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Va	C.S."
0	76.00	0.894	16,60	251,99	1,09	15,75	310,34	1,07
610	70.10	0.825	15,72	238,66	1,03	14,92	293,91	1,01
1220	65.00	0.770	14,95	226,92	0,98	14,18	279,46	0,96
1830	60.20	0.708	14,21	215,61	0,93	13,48	265,54	0,91
2440	55.90	0.658	13,53	205,33	0,88	12,83	252,87	0,87
3050	51.80	0.609	12,86	195,17	0,84	12,20	240,36	0,83
3660	48.00	0.565	12,21	185,33	0,80	11,58	228,24	0,79

m = 0.7								
m.s.n.m	b	δ	T = 30° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	760 0	0.8 5 4	14,67	410,60	0,94	14,21	542,13	0,93
610	70.1 0	0.8 2 5	13,89	388,87	0,89	13,46	513,44	0,88
1220	65.0 0	0.7 7 0	13,21	369,75	0,85	12,80	488,19	0,84
1830	60.2 0	0.7 0 8	12,55	351,32	0,81	12,16	463,83	0,80
2440	55.9 0	0.6 5 8	11,95	334,56	0,77	11,58	441,74	0,76
3050	51.9 0	0.6 0 9	11,36	318,91	0,73	11,00	419,88	0,72
3660	48.0 0	0.5 6 5	10,79	301,98	0,69	10,45	398,72	0,69

m = 0.7								
m.s.n.m	b	δ	T = 30° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.0 0	0.8 9 4	13,75	682,43	0,90	13,21	724,13	0,83
610	70.1 0	0.8 2 5	13,02	646,31	0,86	12,51	685,81	0,79
1220	65.0 0	0.7 7 0	12,38	614,53	0,81	11,89	652,08	0,75
1830	60.2 0	0.7 0 8	11,76	583,91	0,77	11,30	619,59	0,71
2440	55.9 0	0.6 5 8	11,20	556,05	0,74	10,76	590,03	0,68
3050	51.9 0	0.6 0 9	10,64	528,54	0,70	10,23	560,83	0,64
3660	48.0 0	0.5 6 5	10,11	501,90	0,66	9,71	532,57	0,61

m= 0,7

m.s.n.m	b	δ	T=35°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	0.967	16.42	249.25	1.07	15.58	306.96	1.06
610	70.10	0.892	15.56	236.19	1.02	14.76	290.88	1.00
1220	65.00	0.830	14.83	225.12	0.97	14.07	277.24	0.96
1830	60.20	0.766	14.06	213.39	0.92	13.34	262.80	0.91
2440	55.90	0.711	13.38	203.05	0.87	12.69	250.06	0.86
3050	51.80	0.659	12.72	193.02	0.83	12.07	232.72	0.82
3660	48.00	0.610	12.08	183.33	0.79	11.46	225.78	0.78

m= 0,7

m.s.n.m	b	δ	T=35°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S.	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	0.967	14.51	406.14	0.93	14.05	536.23	0.92
610	70.10	0.892	13.75	384.86	0.88	13.32	508.14	0.88
1220	65.00	0.830	13.10	366.81	0.84	12.69	484.31	0.83
1830	60.20	0.766	12.42	347.70	0.80	12.03	459.08	0.79
2440	55.90	0.711	11.82	330.85	0.76	11.45	436.84	0.75
3050	51.80	0.659	11.23	314.52	0.72	10.88	415.27	0.71
3660	48.00	0.610	10.67	298.73	0.68	10.34	394.42	0.68

m= 0,7

m.s.n.m	b	δ	T=35°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.967	13.60	675.01	0.89	13.06	716.26	0.82
610	70.10	0.892	12.88	639.64	0.85	12.38	678.72	0.78
1220	65.00	0.830	12.28	609.64	0.81	11.80	646.90	0.74
1830	60.20	0.766	11.64	577.89	0.76	11.18	613.25	0.70
2440	55.90	0.711	11.08	549.88	0.73	10.64	583.49	0.67
3050	51.80	0.659	10.53	522.73	0.69	10.11	554.68	0.64
3660	48.00	0.610	10.00	496.49	0.66	9.61	526.83	0.60

m.s.n.m	b	δ	m= 0.7 T=40°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	760.0	0.951	16.24	246.50	1.06	15.41	303.54	1.05
610	701.0	0.877	15.39	233.54	1.01	14.60	287.61	0.99
1220	650.0	0.810	14.59	221.43	0.95	13.85	272.77	0.94
1830	600.2	0.753	13.90	210.97	0.91	13.19	259.82	0.90
2440	559.0	0.700	13.24	200.95	0.87	12.56	247.43	0.85
3050	518.0	0.648	12.58	190.87	0.82	11.93	235.06	0.81
3660	490.0	0.601	11.96	181.53	0.78	11.35	223.54	0.77

m.s.n.m	b	δ	m= 0.7 T=40°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	0.951	14.35	401.64	0.92	13.90	530.30	0.91
610	701.0	0.877	13.59	380.53	0.87	13.17	502.42	0.87
1220	650.0	0.810	12.89	360.89	0.83	12.49	476.50	0.82
1830	600.2	0.753	12.28	343.76	0.79	11.90	453.87	0.78
2440	559.0	0.700	11.69	327.43	0.75	11.33	432.32	0.74
3050	518.0	0.648	11.11	311.01	0.71	10.76	410.63	0.71
3660	480.0	0.601	10.56	295.78	0.68	10.23	390.53	0.67

m.s.n.m	b	δ	m= 0.7 T=40°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	0.951	13.45	667.54	0.88	12.92	708.92	0.81
610	701.0	0.877	12.74	632.45	0.84	12.24	671.09	0.77
1220	650.0	0.810	12.08	599.81	0.79	11.61	636.46	0.73
1830	600.2	0.753	11.51	571.33	0.76	11.06	606.24	0.70
2440	559.0	0.700	10.96	544.20	0.72	10.53	577.45	0.66
3050	518.0	0.648	10.41	516.90	0.68	10.00	548.49	0.63
3660	480.0	0.601	9.90	491.60	0.65	9.51	521.64	0.60

m = 0.7									
m.s.n.m	b	δ	T = 45° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C S.	Go	Vo	C.S.
0	76.00	0.936	16.07	243.90	1.05	15.25	300.37	1.04
610	70.10	0.864	15.24	231.22	1.00	14.45	284.75	0.98
1220	65.00	0.800	14.47	219.66	0.95	13.73	270.52	0.93
1830	60.20	0.742	13.76	208.91	0.90	13.06	257.28	0.89
2440	55.90	0.689	13.10	198.84	0.86	12.43	244.83	0.84
3050	51.80	0.638	12.45	188.90	0.81	11.81	233.64	0.80
3660	48.00	0.591	11.83	179.51	0.77	11.22	221.07	0.76

m = 0.7								
m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C. S.
0	76.00	0.936	14.19	397.41	0.91	13.75	524.71	0.90
610	70.10	0.864	13.46	376.76	0.81	13.04	497.45	0.86
1220	65.00	0.800	12.78	357.92	0.82	12.39	472.57	0.81
1830	60.20	0.742	12.16	340.40	0.78	11.78	449.44	0.77
2440	55.90	0.689	11.57	323.99	0.74	11.21	427.78	0.74
3050	51.80	0.638	10.99	307.80	0.71	10.65	406.40	0.70
3660	48.00	0.591	10.45	292.49	0.67	10.12	386.19	0.66

m = 0.7								
m.s.n.m	b	δ	T = 45° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	vo.	C.S.
0	76.00	0.936	13.30	660.50	0.88	12.78	700.86	0.80
610	70.10	0.864	12.61	626.18	0.83	12.12	664.45	0.76
1220	65.00	0.800	11.98	594.86	0.79	11.51	631.21	0.72
1830	60.20	0.742	11.39	565.75	0.75	10.95	600.33	0.69
2440	55.90	0.689	10.85	538.48	0.71	10.42	571.39	0.65
3050	51.80	0.638	10.30	511.57	0.68	9.90	542.83	0.62
3660	48.00	0.591	9.79	486.13	0.64	9.41	515.83	0.59

m = 0.7									
m.s.n.m	b	δ	T = 50°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	760.0	0.922	15.91	241.46	1.04	15.09	297.37	1.03
610	701.0	0.850	15.07	228.72	0.99	14.30	281.65	0.97
1220	650.0	0.790	14.35	217.82	0.94	13.62	268.26	0.92
1830	602.0	0.730	13.62	206.65	0.89	12.92	254.50	0.88
2440	559.0	0.678	12.96	196.72	0.85	12.30	242.26	0.83
3050	518.0	0.628	12.32	186.92	0.80	11.68	230.20	0.79
3660	480.0	0.582	11.71	177.68	0.76	11.11	218.82	0.75

m = 0.7									
m.s.n.m	b	δ	T = 50°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.922	14.05	393.44	0.90	13.62	519.47	0.89
610	701.0	0.850	13.31	372.68	0.86	12.90	492.06	0.85
1220	650.0	0.790	12.68	354.93	0.81	12.28	468.62	0.81
1830	602.0	0.730	12.03	336.72	0.77	11.65	444.58	0.77
2440	559.0	0.678	11.45	320.53	0.74	11.09	423.21	0.73
3050	518.0	0.628	10.88	304.58	0.70	10.54	402.14	0.69
3660	480.0	0.582	10.34	289.51	0.66	10.02	382.26	0.66

m = 0.7									
m.s.n.m	b	δ	T = 50						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.922	13.17	653.90	0.87	12.65	693.86	0.80
610	701.0	0.850	12.48	619.40	0.82	11.99	657.25	0.75
1220	650.0	0.790	11.88	589.90	0.78	11.41	625.94	0.72
1830	602.0	0.730	11.27	559.64	0.74	10.83	593.84	0.68
2440	559.0	0.678	10.73	532.73	0.70	10.31	565.29	0.65
3050	518.0	0.628	10.20	506.21	0.67	9.79	537.14	0.62
3660	480.0	0.582	9.69	481.18	0.64	9.31	510.58	0.58

m= 0.7

m.s.n.m	b	δ	T = 55°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo	C S.	Go	Vo	C.S.
0	760.0	0.908	15.75	239.01	1.03	14.94	294.35	1.01
610	701.0	0.837	14.92	226.38	0.98	14.15	278.80	0.96
1220	650.0	0.780	14.23	215.98	0.93	13.50	265.00	0.92
1830	602.0	0.719	13.48	204.57	0.88	12.79	251.94	0.87
2440	559.0	0.668	12.83	194.78	0.84	12.17	239.80	0.83
3050	518.0	0.619	12.20	185.13	0.80	11.57	228.00	0.78
3660	480.0	0.573	11.58	175.84	0.76	10.99	216.56	0.75

m= 0.7

m.s.n.m	b	δ	T= 55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.908	13.91	389.44	0.89	13.48	514.20	0.89
610	701.0	0.837	13.18	368.87	0.85	12.76	487.03	0.84
1220	650.0	0.780	12.57	351.93	0.81	12.18	464.66	0.80
1830	602.0	0.719	11.91	333.33	0.76	11.53	440.11	0.76
2440	559.0	0.668	11.34	317.37	0.73	10.98	419.04	0.72
3050	518.0	0.619	10.77	301.66	0.69	10.44	398.29	0.68
3660	480.0	0.573	10.23	286.52	0.66	9.91	378.30	0.65

m= 0.7

m.s.n.m	b	δ	T= 55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1530.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.908	13.04	647.26	0.86	12.53	686.82	0.79
610	701.0	0.837	12.35	613.07	0.81	11.86	650.53	0.75
1220	650.0	0.780	11.78	584.91	0.77	11.32	620.65	0.71
1830	602.0	0.719	11.16	554.00	0.73	10.72	587.85	0.67
2440	559.0	0.668	10.62	527.48	0.70	10.21	559.72	0.64
3050	518.0	0.619	10.10	501.36	0.66	9.70	532.00	0.61
3660	480.0	0.573	9.59	476.21	0.63	9.21	505.31	0.58

m= 0,7

m.s.n.m	b	δ	T=60°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.894	15,59	236,54	1,02	14,79	291,31	1,00
610	70.10	0.825	14,77	224,11	0,97	14,02	276,12	0,95
1220	65.00	0.770	14,11	214,13	0,92	13,39	263,71	0,91
1830	60.20	0.708	13,34	202,48	0,87	12,66	249,36	0,86
2440	55.90	0.658	12,70	192,83	0,83	12,05	237,48	0,82
3050	51.80	0.609	12,07	183,13	0,79	11,45	225,54	0,78
3660	48.00	0.565	11,48	174,20	0,75	10,89	214,54	0,74

m= 0,7

m.s.n.m	b	δ	T=60°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.894	13,77	385,43	0,89	13,34	508,90	0,88
610	70.10	0.825	13,05	365,33	0,84	12,64	482,36	0,83
1220	65.00	0.770	12,46	348,91	0,80	12,07	460,68	0,79
1830	60.20	0.708	11,78	329,92	0,76	11,42	435,61	0,75
2440	55.90	0.658	11,22	314,20	0,72	10,87	414,85	0,71
3050	51.80	0.609	10,66	298,40	0,68	10,33	393,99	0,68
3660	48.00	0.565	10,14	283,85	0,65	9,82	374,78	0,64

m= 0,7

m.s.n.m	b	δ	T=60°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.894	12,90	640,59	0,85	12,40	679,74	0,78
610	70.10	0.825	12,23	607,19	0,80	11,75	644,30	0,74
1220	65.00	0.770	11,68	579,90	0,77	11,22	615,23	0,71
1830	60.20	0.708	11,04	548,34	0,73	10,61	581,84	0,67
2440	55.90	0.658	10,52	522,21	0,69	10,10	554,12	0,63
3050	51.80	0.609	9,99	495,95	0,66	9,60	526,26	0,60
3660	48.00	0.565	9,50	471,76	0,62	9,13	500,59	0,57

m= 0,68

m.s.n.m	b	δ	T= -10° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.132	17,72	268,94	1,16	16,81	331.22	1.14
610	701.0	1.044	16,79	254,82	1,10	15,93	313.82	1.08
1220	650.0	0.970	15,99	242,63	1,05	15,17	298.81	1.03
1830	602.0	0.897	15,17	230,30	0,99	14,40	283,62	0,98
2440	559.0	0.833	14,44	219,21	0,94	13,70	269,97	0,93
3050	518.0	0.772	13,73	208,37	0,90	13,03	256,62	0,88
3660	480.0	0.715	13,04	197,99	0,85	12,38	243,83	0,84

m= 0,68

m.s.n.m	b	δ	T= -10° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go	Vo.	C.S.
0	760.0	1.132	15,65	438,22	1,01	15,17	578,60	1,00
610	701.0	1.044	14,83	415,21	0,95	14,37	548,21	0,94
1220	650.0	0.970	14,12	395,35	0,91	13,68	521,99	0,90
1830	602.0	0.897	13,40	375,26	0,86	12,99	495,46	0,85
2440	559.0	0.833	12,76	357,19	0,82	12,36	471,61	0,81
3050	518.0	0.772	12,13	339,53	0,78	11,75	448,29	0,77
3660	480.0	0.715	11,52	322,60	0,74	11,16	425,94	0,73

m= 0,68

m.s.n.m	b	δ	T= -10° C					
			1500 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.132	14,67	728,34	0,97	14,09	772,84	0,89
610	70.10	1.044	13,90	690,08	0,91	13,35	732,25	0,84
1220	65.00	0.970	13,24	657,08	0,87	12,72	697,23	0,80
1830	60.20	0.897	12,56	623,68	0,83	12,07	661,79	0,76
2440	55.90	0.833	11,96	593,65	0,79	11,49	629,93	0,72
3050	51.80	0.772	11,37	564,30	0,75	10,92	598,79	0,69
3660	48.00	0.715	10,80	536,17	0,71	10,37	568,94	0,65

m.s.n.m	b	f	m = 0,68 T = -5°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo	C.S.
0	76.00	1.111	17.50	265.61	1.15	16.60	327.11	1.13
610	70.10	1.025	16.59	251.72	1.09	15.74	310.00	1.07
1220	65.00	0.950	15.77	239.28	1.03	14.96	294.69	1.02
1830	60.20	0.880	14.98	227.38	0.98	14.21	280.43	0.97
2440	55.90	0.817	14.26	216.40	0.93	13.53	266.50	0.92
3050	51.80	0.757	13.55	205.67	0.89	12.86	253.29	0.87
3660	48.00	0.702	12.89	195.58	0.84	12.23	240.66	0.83

m.s.n.m	b	f	m = 0,68 T = -5°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	1.111	15.46	432.79	0.99	14.98	571.42	0.98
610	70.10	1.025	14.65	410.15	0.94	14.19	541.54	0.93
1220	65.00	0.950	13.93	389.89	0.90	13.49	514.79	0.89
1830	60.20	0.880	13.23	370.50	0.85	12.82	489.18	0.84
2440	55.90	0.817	12.59	352.60	0.81	12.20	465.55	0.80
3050	51.80	0.757	11.97	335.12	0.77	11.60	442.47	0.76
3660	48.00	0.702	11.38	318.68	0.73	11.03	420.77	0.72

m.s.n.m	b	f	m = 0,68 T = -5°C 1300 KV. ACSR/AW 1351.5 Go.	Ve.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.111	14.49	719.30	0.95	13.92	763.26	0.88
610	70.10	1.025	13.73	681.68	0.90	13.19	723.34	0.83
1220	65.00	0.950	13.05	648.01	0.86	12.54	687.61	0.79
1830	60.20	0.880	12.40	615.78	0.82	11.92	653.41	0.75
2440	55.90	0.817	11.80	586.03	0.78	11.34	621.84	0.71
3050	51.80	0.757	11.22	556.97	0.74	10.78	591.01	0.68
3660	48.00	0.702	10.67	529.66	0.70	10.25	562.02	0.64

m = 0,68								
m.s.n.m	b	δ	T = 0° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.091	17.29	262.41	1.13	16.40	323.17	1.11
610	70.10	1.006	16.38	248.60	1.07	15.54	306.56	1.06
1220	65.00	0.930	15.54	235.91	1.02	14.75	290.34	1.00
1830	60.20	0.864	14.80	224.62	0.97	14.04	276.62	0.95
2440	55.90	0.802	14.08	213.74	0.92	13.36	263.23	0.91
3050	51.80	0.743	13.38	203.12	0.87	12.70	250.55	0.86
3660	48.00	0.689	12.73	193.16	0.83	12.07	237.88	0.82

m = 0,68								
m.s.n.m	b	δ	T = 0° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	76.00	1.091	15.27	427.58	0.98	14.80	564.54	0.97
610	70.10	1.006	14.47	405.07	0.93	14.02	534.83	0.92
1220	65.00	0.930	13.73	384.40	0.88	13.30	507.54	0.87
1830	60.20	0.864	13.07	365.99	0.84	12.67	483.23	0.83
2440	55.90	0.802	12.44	348.27	0.80	12.05	459.83	0.79
3050	51.80	0.743	11.82	330.97	0.76	11.45	436.99	0.75
3660	48.00	0.689	11.24	314.74	0.72	10.89	415.56	0.71

m = 0,68								
m.s.n.m	b	δ	T = 0° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	CS
0	76.00	1.091	14.31	710.64	0.94	13.75	754.07	0.87
610	70.10	1.006	13.56	673.23	0.89	13.03	714.37	0.82
1220	65.00	0.930	12.87	638.89	0.85	12.36	677.93	0.78
1830	60.20	0.864	12.25	608.29	0.81	11.77	645.46	0.74
2440	55.90	0.802	11.66	578.83	0.77	11.20	614.20	0.70
3050	51.80	0.743	11.08	550.08	0.73	10.64	583.70	0.67
3660	48.00	0.689	10.54	523.10	0.69	10.12	555.06	0.64

m= 0.68

m.s.n.m	b	δ	T= 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	CS
0	76.00	1.071	17.08	259.19	1.12	16.20	319.21	1.10
610	70.10	0.988	16.18	245.62	1.06	15.35	302.49	1.04
1220	65.00	0.920	15.43	234.22	1.01	14.64	288.45	0.99
1830	60.20	0.848	14.62	221.83	0.96	13.87	273.30	0.94
2440	55.90	0.788	13.92	211.24	0.91	13.20	260.45	0.90
3050	51.80	0.730	13.23	200.75	0.86	12.55	247.23	0.85
3660	48.00	0.676	12.57	190.72	0.82	11.92	234.88	0.81

m= 0.68

m.s.n.m	b	δ	T= 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	CS
0	76.00	1.071	15.09	422.34	0.97	14.62	557.62	0.96
610	70.10	0.988	14.30	400.22	0.92	13.85	528.43	0.91
1220	65.00	0.920	13.63	381.64	0.88	13.21	503.90	0.87
1830	60.20	0.848	12.91	361.46	0.83	12.51	477.25	0.82
2440	55.90	0.788	12.29	344.20	0.79	11.91	454.46	0.78
3050	51.80	0.730	11.68	327.10	0.75	11.32	431.88	0.74
3660	48.00	0.676	11.10	310.76	0.71	10.75	410.31	0.71

m= 0.68

m.s.n.m	b	δ	T= 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	CS
0	76.00	1.071	14.14	701.93	0.93	13.58	744.82	0.86
610	70.10	0.988	13.40	665.18	0.88	12.87	705.83	0.81
1220	65.00	0.920	12.78	634.30	0.84	12.27	673.06	0.77
1830	60.20	0.848	12.10	600.76	0.80	11.62	637.47	0.73
2440	55.90	0.788	11.52	572.07	0.76	11.07	607.03	0.70
3050	51.80	0.730	10.95	543.65	0.72	10.52	576.87	0.66
3660	48.00	0.676	10.40	516.50	0.68	9.99	548.06	0.63

m.s.n.m	b	δ	m= 0,68 T=10°C 400 KV ACSR/AW 1272.0 Co.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Co.	Vo.	CS
0	760.0	1.052	16.88	256.12	1.10	16.01	315.42	1.09
610	701.0	0.970	15.99	242.63	1.05	15.17	298.81	1.03
1220	650.0	0.900	15.21	230.81	0.99	14.43	284.26	0.98
1830	602.0	0.833	14.44	219.21	0.94	13.70	269.97	0.93
2440	559.0	0.774	13.39	203.31	0.88	12.71	250.38	0.86
3050	518.0	0.717	13.07	198.36	0.85	12.40	244.28	0.84
3660	480.0	0.664	12.42	188.46	0.81	11.78	232.05	0.80

m.s.n.m	b	δ	m= 0,68 T=10°C 750 KV. ACSR/AW 1351.5 Co.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Co.	Vo.	CS
0	760.0	1.052	14.91	417.33	0.96	14.44	551.01	0.95
610	701.0	0.970	14.12	395.35	0.91	13.68	521.99	0.90
1220	650.0	0.900	13.43	376.07	0.86	13.01	496.57	0.86
1830	602.0	0.833	12.76	357.19	0.82	12.36	471.61	0.81
2440	559.0	0.774	11.83	331.27	0.76	11.46	437.39	0.75
3050	518.0	0.717	11.54	323.21	0.74	11.18	426.74	0.73
3660	480.0	0.664	10.97	307.08	0.70	10.63	405.44	0.70

m.s.n.m	b	δ	m= 0,68 T= 10°C 1300 KV. ACSR/AW 1351.5 Co	Vo.	CS	1500 KV. ACSR/AW 1590.0 Co.	Vo	CS
0	760.0	1.052	13.97	693.60	0.92	13.42	735.99	0.84
610	701.0	0.970	13.24	657.08	0.87	12.72	697.23	0.80
1220	650.0	0.900	12.59	625.07	0.83	12.10	663.27	0.76
1830	602.0	0.833	11.96	593.65	0.79	11.49	629.93	0.72
2440	559.0	0.774	11.09	550.58	0.73	10.65	584.22	0.67
3050	518.0	0.717	10.82	537.17	0.71	10.39	570.00	0.65
3660	480.0	0.664	10.28	510.36	0.67	9.88	541.55	0.62

m = 0.68								
msnm	b	δ	T = 15°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	CS
0	760.0	1.034	16.68	253.19	1.09	15.83	311.81	1.08
610	701.0	0.954	15.81	239.96	1.03	15.00	295.51	1.02
1220	650.0	0.880	14.98	227.38	0.98	14.21	280.03	0.97
1830	602.0	0.819	14.28	216.75	0.93	13.55	266.93	0.92
2440	559.0	0.760	13.59	206.21	0.89	12.89	253.95	0.87
3050	521.0	0.705	12.92	196.14	0.84	12.26	241.55	0.83
3660	480.0	0.653	12.28	186.37	0.80	11.65	229.52	0.79

m = 0.68								
msnm	b	δ	T = 15°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo.	CS
0	760.0	1.034	14.74	412.55	0.95	14.28	544.71	0.94
610	701.0	0.954	13.97	390.99	0.90	13.53	516.23	0.89
1220	650.0	0.880	13.23	370.50	0.85	12.82	489.18	0.84
1830	602.0	0.819	12.61	353.17	0.81	12.22	466.31	0.80
2440	559.0	0.760	12.00	336.00	0.77	11.63	443.63	0.76
3050	521.0	0.705	11.41	319.59	0.73	11.06	421.96	0.73
3660	480.0	0.653	10.85	303.67	0.70	10.51	400.95	0.69

m = 0.68								
msnm	b	δ	T = 15°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	CS
0	760.0	1.034	13.81	685.67	0.91	13.27	727.57	0.84
610	701.0	0.954	13.09	649.83	0.86	12.57	689.54	0.79
1220	650.0	0.880	12.40	615.78	0.82	11.92	653.41	0.75
1830	602.0	0.819	11.82	586.98	0.78	11.36	622.75	0.71
2440	559.0	0.760	11.25	558.44	0.74	10.81	592.52	0.68
3050	521.0	0.705	10.70	531.16	0.70	10.28	563.62	0.65
3660	480.0	0.653	10.16	504.71	0.67	9.77	535.56	0.61

m= 0.68

m.s.n.m	b	δ	T=20°C 400 KV ACSR/AW 1272.0 Go.	Vo.	CS	500 KV. ACSR/AW 1113.5 Go.	Vo	CS
0	760.0	1.016	16.49	250.24	1.08	15.64	308.18	1.06
610	701.0	0.937	15.62	237.10	1.02	14.82	291.99	1.01
1220	650.0	0.870	14.87	225.66	0.97	14.11	277.99	0.96
1830	602.0	0.805	14.12	214.27	0.92	13.39	263.68	0.91
2440	559.0	0.747	13.43	203.85	0.88	12.74	251.05	0.86
3050	518.0	0.693	12.78	193.90	0.83	12.12	238.80	0.82
3660	480.0	0.642	12.14	184.27	0.79	11.52	226.94	0.78

m= 0.68

m.s.n.m	b	δ	T=20°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1000 KV. ACSR/AW 1272.0 Go.	Vo.	CS
0	760.0	1.016	14.56	407.75	0.94	14.11	538.37	0.93
610	701.0	0.937	13.80	386.33	0.89	13.37	510.08	0.88
1220	650.0	0.870	13.13	367.69	0.84	12.72	485.47	0.84
1830	602.0	0.805	12.47	349.14	0.80	12.08	460.98	0.79
2440	559.0	0.747	11.86	332.16	0.76	11.49	438.56	0.75
3050	518.0	0.693	11.28	315.95	0.72	10.93	417.16	0.72
3660	480.0	0.642	10.72	300.25	0.69	10.39	396.44	0.68

m= 0.68

m.s.n.m	b	δ	T=20°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1530.0 Go.	Vo	CS
0	760.0	1.016	13.65	677.69	0.90	13.11	719.10	0.83
610	701.0	0.937	12.93	642.09	0.85	12.43	681.32	0.78
1220	650.0	0.870	12.31	611.10	0.81	11.83	848.45	0.74
1830	602.0	0.805	11.69	580.27	0.77	11.23	615.73	0.71
2440	559.0	0.747	11.12	552.05	0.73	10.68	585.79	0.67
3050	518.0	0.693	10.58	525.12	0.69	10.16	557.21	0.64
3660	480.0	0.642	10.05	499.03	0.66	9.66	529.52	0.61

m= 0.68

m.s.n.m	b	f	T=25°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S.	Go	Vo	CS
0	76.00	1.000	16.32	247.61	1.07	15.48	304.94	1.05
610	70.10	0.922	15.45	234.56	1.01	14.66	288.37	1.00
1220	65.00	0.860	14.75	223.92	0.96	14.00	275.77	0.95
1830	60.20	0.791	13.95	211.78	0.91	13.24	260.81	0.90
2440	55.90	0.735	13.29	201.66	0.87	12.61	248.35	0.86
3050	51.80	0.681	12.63	191.66	0.82	11.98	236.04	0.81
3660	48.00	0.631	12.00	182.16	0.78	11.39	224.34	0.77

m= 0.68

m.s.n.m	b	f	T=25°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	CS
0	76.00	1.000	14.41	403.46	0.93	13.96	532.70	0.92
610	70.10	0.922	13.65	382.20	0.88	13.23	504.63	0.87
1220	65.00	0.860	13.03	364.86	0.84	12.63	481.74	0.83
1830	60.20	0.791	12.33	345.08	0.79	11.94	455.62	0.78
2440	55.90	0.735	11.74	328.59	0.75	11.37	433.85	0.75
3050	51.80	0.681	11.15	312.29	0.72	10.81	412.33	0.71
3660	48.00	0.631	10.60	296.81	0.68	10.27	391.89	0.67

m= 0.68

m.s.n.m	b	f	T=25°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	CS
0	76.00	1.000	13.51	670.55	0.89	12.98	711.53	0.82
610	70.10	0.922	12.79	635.22	0.84	12.29	674.03	0.77
1220	65.00	0.860	12.21	606.41	0.80	11.73	643.47	0.74
1830	60.20	0.791	11.55	573.53	0.76	11.10	608.57	0.70
2440	55.90	0.735	11.00	546.13	0.72	10.57	579.50	0.66
3050	51.80	0.681	10.45	519.04	0.69	10.06	550.76	0.63
3660	48.00	0.631	9.94	493.31	0.65	9.56	523.44	0.60

m = 0,68

m.s.n.m	b	f	T=30°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S.	Go.	Vo	CS
0	76.00	0.983	16,13	244.79	1.06	15,30	301,47	1,04
610	70.10	0.906	15,28	231.84	1.00	14.49	285.52	0.98
1220	65.00	0.840	14.52	220.44	0.95	13.78	271.48	0.94
1830	60.20	0.778	13.80	209,45	0.90	13.09	257.95	0.89
2440	55.90	0.723	13.14	199.46	0,86	12.47	245.64	0,85
3050	51.80	0.670	12.49	189.59	0.82	11.85	233.49	0,80
3660	49.00	0.820	11.86	180.04	0.77	11.25	221.72	0,76

m = 0,68

m.s.n.m	b	f	T=30°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	CS
0	76.00	0.983	14.25	398.87	0.92	13.80	526.64	0.91
610	70.10	0.906	13.49	377.76	0.87	13.07	498.77	0.86
1220	65.00	0.840	12.83	359.18	0.82	12.43	474.24	0.82
1830	60.20	0.778	12.19	341.29	0.78	11.81	450.61	0.78
2440	55.90	0.723	11.61	325.01	0.75	11.25	429.12	0.74
3050	51.80	0.670	11.03	308.92	0.71	10.69	407.88	0.70
3660	48.00	0.820	10.48	293.36	0.67	10.15	387.33	0.67

m = 0,68

m.s.n.m	b	f	T=30°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go	Vo	CS
0	76.00	0.583	13.35	662.93	0.88	12.81	793.46	0.81
610	70.10	0.908	12.65	627.85	0.83	12.15	666.21	0.76
1220	65.00	0.840	12.02	596.97	0.79	11.55	633.46	0.73
1830	60.20	0.778	11.42	567.22	0.75	10.98	601.89	0.69
2440	55.90	0.723	10.88	540.17	0.71	10.45	573.18	0.66
3050	51.80	0.670	10.34	513.43	0.68	9.93	544.81	0.62
3660	48.00	0.820	9.82	487.56	0.64	9.43	517.36	0.58

m= 0.68									
m.s.n.m	b	δ	T=35°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C S.	Go	Vo	CS	
0	760.0	0.967	15.95	242.13	1.04	15.14	298.19	1.03	
610	701.0	0.892	15.12	229.44	0.99	14.34	282.57	0.97	
1220	650.0	0.830	14.41	218.68	0.94	13.67	269.32	0.93	
1830	602.0	0.766	13.66	207.29	0.89	12.96	255.29	0.88	
2440	559.0	0.711	13.00	197.25	0.85	12.33	242.92	0.84	
3050	518.0	0.659	12.35	187.51	0.81	11.72	230.93	0.79	
3660	480.0	0.610	11.73	178.10	0.77	11.13	219.33	0.75	

m= 0.68									
m.s.n.m	b	δ	T=35°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	CS	
0	760.0	0.967	14.09	394.53	0.91	13.65	520.91	0.90	
610	701.0	0.892	13.35	373.86	0.86	12.94	493.62	0.85	
1220	550.0	0.830	12.73	356.33	0.82	12.33	470.47	0.81	
1830	502.0	0.766	12.06	337.77	0.78	11.69	445.97	0.77	
2440	559.0	0.711	11.48	321.40	0.74	11.12	424.35	0.73	
3050	518.0	0.659	10.91	305.53	0.70	10.57	403.40	0.69	
3660	480.0	0.610	10.36	290.19	0.67	10.04	383.15	0.66	

m= 0.68									
m.s.n.m	b	δ	T=35°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	CS	
0	760.0	0.967	13.21	655.72	0.87	12.69	695.79	0.80	
610	701.0	0.892	12.52	621.36	0.82	12.02	659.33	0.76	
1220	650.0	0.830	11.93	592.23	0.78	11.46	628.42	0.72	
1830	602.0	0.766	11.31	561.38	0.74	10.86	595.68	0.68	
2440	559.0	0.711	10.76	534.17	0.71	10.34	566.82	0.65	
3050	518.0	0.659	10.23	507.80	0.67	9.83	538.83	0.62	
3660	480.0	0.610	9.71	482.31	0.64	9.33	511.78	0.59	

m.s.n.m	b	f	m= 0,68 T=40°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C S.	500 KV. ACSR/AW 1116.5 Ga	Va	CS
0	760 0	0.9 5 1	15,78	239.45	1,03	14,97	294,89	1.02
6 1 0	70.1 0	0.8 7 7	14.95	226.86	0,98	14.18	279.39	0,96
1 2 2 0	65.00	0.8 1 0	14.18	215.16	0,93	13.45	264.97	0.91
1 8 3 0	60.20	0.7 5 3	13,50	204.94	0,88	12,81	252,39	0,87
2 4 4 0	55.90	0.7 0 0	12,86	195,21	0,84	12,20	240.31	0.83
3 0 5 0	51.80	0.6 4 8	12,22	185,42	0,80	11,59	228,35	0.79
3 6 6 0	48.00	0.6 0 1	11,62	176,34	0,76	11,02	217,17	0.75

m.s.n.m	b	f	m= 0,68 T=40°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	CS
0	760 0	0.9 5 1	13,94	390,17	0,90	13,50	515,15	0,89
6 1 0	70.1 0	0.8 7 7	13,20	369,66	0,85	12,79	488,07	0,84
1 2 2 0	65.00	0.8 1 0	12,52	350,58	0,80	12,13	462,88	0,80
1 8 3 0	60.20	0.7 5 3	11,93	333,94	0,77	11,56	440,91	0,76
2 4 4 0	55.90	0.7 0 0	11,36	318,08	0,73	11,01	419,97	0,72
3 0 5 0	51.80	0.6 4 8	10,79	302,12	0,69	10,45	398,90	0,69
3 6 6 0	48.00	0.6 0 1	10,26	287,33	0,66	9,94	379,37	0,65

m.s.n.m	b	f	m= 0,68 T=40°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	C.S	1500 KV. ACSR/AW 1590.0 Go.	Vo.	CS
0	76.00	0.9 5 1	13,96	648,47	0,86	12,55	688,09	0,79
6 1 0	70.1 0	0.8 7 7	12,37	614,38	0,81	11,89	651,92	0,75
1 2 2 0	65.00	0.8 1 0	11,74	582,67	0,77	11,27	618,28	0,71
1 8 3 0	60.20	0.7 5 3	11,18	555,01	0,73	10,74	588,92	0,68
2 4 4 0	55.90	0.7 0 0	10,65	528,65	0,70	10,23	560,95	0,64
3 0 5 0	51.90	0 6 4 8	10,11	502,13	0,66	9,72	532,82	0,61
3 6 6 0	48.00	0.6 0 1	9,62	477,55	0,63	9,24	506,73	0,58

m= 0.68								
m.s.n.m	b	f	T = 45°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	CS
0	76.00	0.936	15.61	236.93	1.02	14.81	291.79	1.01
610	70.10	0.864	14.80	224.62	0.97	14.04	276.62	0.95
1220	65.00	0.800	14.06	213.38	0.92	13.34	262.79	0.91
1830	60.20	0.742	13.37	202.94	0.87	12.69	249.93	0.86
2440	55.90	0.689	12.73	193.16	0.83	12.07	237.88	0.82
3050	51.80	0.638	12.09	183.50	0.79	11.47	225.99	0.78
3660	49.00	0.591	11.49	174.38	0.75	10.90	214.75	0.74

m= 0.68								
m.s.n.m	b	f	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	CS
0	76.00	0.936	13.79	386.05	0.89	13.36	509.72	0.88
610	70.10	0.864	13.07	365.99	0.84	12.67	483.23	0.83
1220	65.00	0.800	12.42	347.69	0.80	12.03	459.07	0.79
1830	60.20	0.742	11.81	330.68	0.76	11.44	436.60	0.75
2440	55.90	0.689	11.24	314.74	0.72	10.89	415.56	0.71
3050	51.80	0.638	10.68	299.01	0.69	10.35	394.79	0.68
3660	48.00	0.591	10.15	284.13	0.65	9.83	375.15	0.64

m= 0.68								
m.s.n.m	b	f	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	CS
0	76.00	0.936	12.92	641.63	0.85	12.42	680.84	0.78
610	70.10	0.864	12.25	608.29	0.81	11.77	645.46	0.74
1220	65.00	0.800	11.64	577.87	0.76	11.18	613.18	0.70
1830	60.20	0.742	11.07	549.59	0.73	10.63	583.17	0.67
2440	55.90	0.689	10.54	523.10	0.69	10.12	555.06	0.64
3050	51.80	0.638	10.01	496.95	0.66	9.62	527.32	0.60
3660	48.00	0.591	9.51	472.24	0.62	9.14	501.10	0.57

m.s.n.m	b	δ	m= 0.68 T=50°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	CS
0	76.00	0.922	15.45	234.56	1.01	14.66	238.87	1.00
610	70.10	0.850	14.64	222.18	0.96	13.89	273.63	0.94
1220	65.00	0.790	13.94	211.60	0.91	13.23	260.59	0.90
1830	60.20	0.730	13.23	200.75	0.86	12.55	247.23	0.85
2440	55.90	0.678	12.59	191.10	0.82	11.94	235.34	0.81
3050	51.80	0.628	11.96	181.58	0.78	11.35	223.63	0.77
3660	48.00	0.582	11.37	172.60	0.74	10.79	212.57	0.73

m.s.n.m	b	δ	m= 0.68 T=50°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	CS
0	76.00	0.922	13.65	382.20	0.88	13.23	504.61	0.87
610	70.10	0.850	12.93	362.03	0.83	12.53	478/00	0.82
1220	65.00	0.790	12.31	344.79	0.79	11.93	455.23	0.78
1830	60.20	0.730	11.68	327.10	0.75	11.32	431.88	0.74
2440	55.90	0.678	11.12	311.38	0.71	10.77	411.12	0.71
3050	51.80	0.628	10.57	295.87	0.68	10.24	390.65	0.67
3660	48.00	0.582	10.04	281.24	0.64	9.73	371.33	0.64

m.s.n.m	b	δ	m= 0.68 T=50 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	CS
0	76.00	0.922	12.79	635.22	0.81	12.29	674.03	0.77
610	70.10	0.850	12.12	601.70	0.80	11.64	638.47	0.73
1220	65.00	0.790	11.54	573.04	0.76	11.09	608.06	0.70
1830	60.20	0.730	10.95	543.65	0.72	10.52	576.87	0.66
2440	55.90	0.678	10.42	517.51	0.68	10.01	549.14	0.63
3050	51.80	0.628	9.90	491.75	0.65	9.51	521.80	0.60
3660	48.00	0.582	9.41	467.43	0.62	9.04	496.00	0.57

m= 0.68

m.s.n.m	a	f	T=55°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Va	CS
0	76.00	0.908	15.30	232.18	1.00	14.51	285.94	0.99
610	70.10	0.837	14.49	219.91	0.95	13.75	270.83	0.93
1220	65.00	0.780	13.82	209.81	0.90	13.12	258.39	0.89
1830	60.20	0.719	13.09	198.72	0.86	12.42	244.74	0.84
2440	55.90	0.668	12.47	189.21	0.81	11.83	233.02	0.80
3050	51.80	0.619	11.85	179.84	0.77	11.24	221.48	0.76
3660	48.00	0.573	11.25	170.82	0.73	10.68	210.37	0.72

m= 0.68

m.s.n.m	b	f	T=55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	CS
0	7600	0.908	13.51	378.32	0.87	13.09	499.50	0.86
610	70.10	0.837	12.80	358.33	0.82	12.40	473.11	0.81
1220	6500	0.780	12.21	341.87	0.77	11.83	451.38	0.78
1830	6020	0.719	11.56	323.81	0.74	11.20	427.53	0.74
2440	55.90	0.668	11.01	308.31	0.71	10.67	407.07	0.70
3050	51.80	0.619	10.47	293.04	0.67	10.14	386.91	0.67
3660	4800	0.573	9.94	278.34	0.64	9.63	367.50	0.63

m= 0.68

m.s.n.m	b	f	T=55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	CS
0	76.00	0.908	12.66	628.77	0.83	12.17	667.19	0.77
610	70.10	0.837	12.00	595.55	0.79	11.52	631.94	0.72
1220	65.00	0.780	11.44	568.20	0.75	10.99	602.92	0.68
1830	60.20	0.719	10.84	538.17	0.71	10.41	571.06	0.65
2440	55.90	0.668	10.32	512.41	0.68	9.91	543.73	0.62
3050	51.80	0.619	9.81	487.04	0.64	9.42	516.80	0.59
3660	48.00	0.573	9.32	462.60	0.61	8.95	490.87	0.56

m.s.n.m	b	δ	m= 0.68 T= 60°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	0.894	15.14	229.79	0.99	14.36	282.99	0.98
610	70.10	0.825	14.35	217.81	0.94	13.61	268.24	0.92
1220	65.00	0.770	13.71	208.01	0.90	13.00	256.18	0.88
1830	60.20	0.708	12.96	196.69	0.85	12.29	242.23	0.83
2440	55.90	0.658	12.34	187.32	0.81	11.71	230.69	0.79
3050	51.80	0.609	11.72	177.90	0.77	11.12	219.09	0.75
3660	48.00	0.565	11.15	169.23	0.73	10.58	208.41	0.72

m.s.n.m	b	δ	m= 0.68 T= 60°C 750 KV ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	0.894	13.37	374.42	0.86	12.96	494.36	0.85
610	70.10	0.825	12.68	354.90	0.81	12.28	468.58	0.81
1220	65.00	0.770	12.11	338.94	0.78	11.73	447.52	0.77
1830	60.20	0.708	11.45	320.49	0.74	11.09	423.16	0.73
2440	55.90	0.658	10.90	305.22	0.70	10.56	403.00	0.69
3050	51.80	0.609	10.35	289.88	0.66	10.03	382.73	0.66
3660	48.00	0.565	9.85	275.74	0.63	9.54	364.07	0.63

m.s.n.m	b	δ	m= 0.68 T= 60°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1500 KV ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.894	12.53	622.29	0.82	12.04	660.32	0.76
610	70.10	0.825	11.88	589.84	0.78	11.41	625.89	0.72
1220	65.00	0.770	11.35	563.33	0.75	10.90	597.75	0.69
1830	60.20	0.708	10.73	532.67	0.70	10.31	565.22	0.65
2440	55.90	0.658	10.22	507.29	0.67	9.82	538.29	0.62
3050	51.80	0.609	9.70	481.78	0.64	9.32	511.22	0.59
3660	48.00	0.565	9.23	458.28	0.61	8.87	486.29	0.56

m = 0,63									
m.s.n.m	b	δ	T = -10° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1115.5			
			Go.	Vo.	CS.	Go	Vo	CS	
0	76.00	1.132	16.42	249.17	1.07	15.58	306.86	1.06	
610	70.10	1.044	15.56	236.08	1.02	14.76	290.74	1.00	
1220	65.00	0.970	14.81	224.79	0.97	14.05	276.84	0.95	
1830	60.20	0.897	14.06	213.37	0.92	13.34	262.77	0.91	
2440	55.90	0.833	13.38	203.09	0.87	12.69	250.12	0.86	
3050	51.80	0.772	12.72	193.05	0.83	12.07	237.75	0.82	
3660	48.00	0.715	12.08	183.43	0.79	11.47	225.90	0.78	

m = 0,63									
m.s.n.m	b	δ	T = -10° C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	CS	Go.	Vo.	CS	
0	76.00	1.132	14.50	406.00	0.93	14.05	536.06	0.92	
610	70.10	1.044	13.74	384.68	0.88	13.31	507.90	0.87	
1220	65.00	0.970	13.08	366.28	0.84	12.68	483.61	0.83	
1830	60.20	0.897	12.42	347.66	0.80	12.03	459.03	0.79	
2440	55.90	0.833	11.82	330.92	0.76	11.45	436.93	0.75	
3050	51.80	0.772	11.23	314.56	0.72	10.88	415.33	0.71	
3660	48.00	0.715	10.67	298.88	0.69	10.34	394.63	0.68	

m = 0,63									
m.s.n.m	b	δ	T = -10° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	CS	
0	76.00	1.132	13.59	674.78	0.89	13.06	716.02	0.82	
610	70.10	1.044	12.88	639.34	0.85	12.37	678.41	0.78	
1220	65.00	0.970	12.26	608.76	0.81	11.78	645.96	0.74	
1830	60.20	0.897	11.64	577.82	0.76	11.18	613.13	0.70	
2440	55.90	0.833	11.08	550.00	0.73	10.64	583.61	0.67	
3050	51.80	0.772	10.53	522.81	0.69	10.12	554.76	0.64	
3660	48.00	0.715	10.00	496.75	0.66	9.61	527.11	0.60	

m.s.n.m	b	f	m= 0,63 T=-5°C 400 KV ACSR/AW 1272.0 Co.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Co	Vo	C.S.
0	760.0	1.111	16,21	246,08	1,06	15,38	303.05	1.04
610	701.0	1.025	15,37	233,21	1,00	14,58	287,21	0,99
1220	650.0	0.950	14,61	221,69	0,95	13,86	273,02	0,94
1830	602.0	0.880	13,88	210,66	0,91	13,17	259,34	0,89
2440	559.0	0.817	13,21	200,48	0,86	12,53	246,90	0,85
3050	518.0	0.757	12,55	190,54	0,82	11,91	234,66	0,81
3660	480.0	0.702	11,94	181,20	0,78	11,33	223,15	0,77

m.s.n.m	b	f	m= 0,63 T=-5°C 750 KV. ACSR/AW 1351.5 Co.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Co.	Vo.	C.S.
0	760.0	1.111	14,32	400,96	0,92	13,88	529,41	0,91
610	701.0	1.025	13,57	380,00	0,87	13,15	501,72	0,86
1220	650.0	0.950	12,90	361,23	0,83	12,50	476,94	0,82
1830	602.0	0.880	12,26	343,26	0,79	11,88	453,21	0,78
2440	559.0	0.817	11,67	326,67	0,75	11,30	431,32	0,74
3050	518.0	0.757	11,09	310,48	0,71	10,74	409,93	0,71
3660	480.0	0.702	10,54	295,25	0,68	10,22	389,83	0,67

m.s.n.m	b	f	m= 0,63 T=-5°C 1300 KV. ACSR/AW 1351.5 Co	Vo.	CS	1500 KV. ACSR/AW 1590.0 Co.	Vo.	C.S.
0	760.0	1.111	13,42	666,41	0,88	12,90	707,13	0,81
610	701.0	1.025	12,72	631,56	0,84	12,22	670,15	0,77
1220	650.0	0.950	12,09	600,36	0,79	11,62	637,05	0,73
1830	602.0	0.880	11,49	570,50	0,76	11,04	605,36	0,69
2440	559.0	0.817	10,94	542,94	0,72	10,51	576,11	0,66
3050	518.0	0.757	10,39	516,02	0,68	9,98	547,55	0,63
3660	480.0	0.702	9,88	490,71	0,65	9,49	520,70	0,60

m= 0,63

m.s.n.m	b	δ	T= 0°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.091	16,02	243,12	1,05	15,20	299,41	1,03
610	70.10	1.006	15,18	230,32	0,99	14,40	283,65	0,98
1220	65.00	0.930	14,40	218,57	0,94	13,66	269,17	0,93
1830	60.20	0.864	13,71	208,10	0,90	13,01	256,28	0,88
2440	55.90	0.802	13,06	198,62	0,86	12,38	244,87	0,84
3050	51.80	0.743	12,40	188,19	0,81	11,76	231,76	0,80
3660	48.00	0.689	11,79	178,96	0,77	11,19	220,39	0,76

m= 0,63

m.s.n.m	b	δ	T= 0°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo	C.S.
0	76.00	1.091	14,15	396,14	0,91	13,71	523,03	0,90
610	70.10	1.006	13,40	375,29	0,86	12,99	495,50	0,85
1220	65.00	0.930	12,72	356,14	0,82	12,32	470,22	0,81
1830	60.20	0.864	12,11	339,08	0,78	11,73	447,70	0,77
2440	55.90	0.802	11,52	322,66	0,74	11,17	426,02	0,73
3050	51.80	0.743	10,95	306,64	0,70	10,61	404,86	0,70
3660	48.00	0.689	10,41	291,59	0,67	10,09	385,00	0,66

m= 0,63

m.s.n.m	b	δ	T= 0°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1530.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.091	13,26	658,39	0,87	12,74	698,62	0,80
610	70.10	1.006	12,56	623,73	0,83	12,07	661,85	0,76
1220	65.00	0.930	11,92	591,91	0,78	11,45	628,08	0,72
1830	60.20	0.864	11,35	563,56	0,75	10,90	598,00	0,69
2440	55.90	0.802	10,80	536,27	0,71	10,38	569,04	0,65
3050	51.80	0.743	10,26	509,64	0,67	9,86	540,78	0,62
3660	48.00	0.689	9,76	484,63	0,64	9,38	514,25	0,59

m = 0,63									
m.s.n.m	b	δ	T = 5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	76.00	1.071	15,82	240,14	1,03	15.01	295.74	1,02	
610	70.10	0.988	14,99	227.56	0,98	14,23	280,25	0,97	
1220	65.00	0.920	14,30	217,00	0,93	13,56	267,24	0,92	
1830	60.20	0.848	13,54	205,52	0,88	12,85	253,11	0,87	
2440	55.90	0.788	12,89	195,71	0,84	12,23	241,03	0,83	
3050	51.80	0.730	12,25	185,99	0,80	11,63	229,05	0,79	
3660	48.00	0.676	11,64	176,70	0,76	11,04	217,61	0,75	

m = 0,63								
m.s.n.m	b	δ	T = 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	
0	76.00	1.071	13,98	391,28	0,90	13,54	516,62	0,89
610	70.10	0.988	13,24	370,80	0,85	12,83	489,57	0,84
1220	65.00	0.920	12,63	353,58	0,81	12,24	466,84	0,80
1830	60.20	0.848	11,96	334,88	0,77	11,59	442,16	0,76
2440	55.90	0.788	11,39	318,89	0,73	11,03	421,05	0,72
3050	51.80	0.730	10,82	303,05	0,69	10,49	400,13	0,69
3660	48.00	0.676	10,28	287,91	0,66	9,96	380,14	0,65

m = 0,63								
m.s.n.m	b	δ	T = 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.071	13,10	650,32	0,86	12,58	690,06	0,79
610	70.10	0.988	12,41	616,27	0,82	11,93	653,93	0,75
1220	65.00	0.920	11,84	587,66	0,78	11,37	623,57	0,72
1830	60.20	0.848	11,21	556,58	0,74	10,77	590,60	0,68
2440	55.90	0.788	10,67	530,01	0,70	10,26	562,40	0,64
3050	51.80	0.730	10,14	503,67	0,67	9,75	534,45	0,61
3660	48.00	0.676	9,64	478,52	0,63	9,26	507,76	0,58

m= 0,63

m.s.n.m	b	δ	T=10°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	760.0	1.052	15,63	237,29	1,02	14,83	292,23	1,01
610	701.0	0.970	14,81	224,79	0,97	14,05	276,84	0,95
1220	650.0	0.900	14,09	213,84	0,92	13,37	263,35	0,91
1830	602.0	0.833	13,38	203,09	0,87	12,69	250,12	0,86
2440	559.0	0.774	12,41	188,36	0,81	11,77	231,97	0,80
3050	518.0	0.717	12,11	183,77	0,79	11,49	226,32	0,78
3660	490.0	0.664	11,50	174,60	0,75	10,91	215,03	0,74

m= 0,63

m.s.n.m	b	δ	T=10°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	1.052	13,81	386,64	0,89	13,38	510,49	0,88
610	701.0	0.970	13,08	366,28	0,84	12,68	483,61	0,83
1220	650.0	0.900	12,45	348,44	0,80	12,06	460,05	0,79
1830	602.0	0.833	11,82	330,92	0,76	11,45	436,93	0,75
2440	559.0	0.774	10,96	306,91	0,70	10,62	405,22	0,70
3050	518.0	0.717	10,69	299,44	0,69	10,36	395,36	0,68
3660	480.0	0.664	10,16	284,50	0,65	9,84	375,63	0,65

m= 0,63

m.s.n.m	b	δ	T=10°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	1.052	12,94	642,60	0,85	12,44	681,87	0,78
610	701.0	0.970	12,26	608,76	0,81	11,78	645,96	0,74
1220	650.0	0.900	11,66	579,11	0,77	11,21	614,50	0,70
1830	602.0	0.833	11,08	550,00	0,73	10,64	583,61	0,67
2440	559.0	0.774	10,27	510,00	0,67	9,87	541,26	0,62
3050	518.0	0.717	10,02	497,68	0,66	9,63	528,09	0,60
3660	480.0	0.664	9,52	472,84	0,62	9,15	501,73	0,57

m.s.n.m	b	δ	m= 0,63 T=15°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	1.034	15,46	234,57	1,01	14,66	288,89	1,00
610	70.10	0.954	14,65	222,31	0,96	13,90	273,79	0,94
1220	65.00	0.880	13,88	210,66	0,91	13,17	259,44	0,89
1830	60.20	0.819	13,23	200,81	0,86	12,55	247,31	0,85
2440	55.90	0.760	12,59	191,05	0,82	11,94	235,28	0,81
3050	51.80	0.705	11,97	181,71	0,78	11,36	223,79	0,77
3660	48.00	0.653	11,38	172,67	0,74	10,79	212,64	0,73

m.s.n.m	b	δ	m= 0,63 T=15°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	
0	760.0	1.034	13,65	382,22	0,88	13.23	504,65	0,87
610	70.10	0.954	12,94	362,24	0,83	12,54	478,28	0,82
1220	65.00	0.880	12,26	343,26	0,79	11,88	453,21	0,78
1830	60.20	0.819	11,69	327,20	0,75	11,32	432,02	0,74
2440	55.90	0.760	11,12	311,30	0,71	10,77	411,01	0,71
3050	51.80	0.705	10,57	296,09	0,68	10,25	390,94	0,67
3660	48.00	0.653	10,05	281,35	0,64	9,73	371,47	0,64

m.s.n.m	b	δ	m= 0,63 T=15°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.034	12,80	635,25	0,84	12,29	674,07	0,77
610	70.10	0.954	12,13	602,05	0,80	11,65	638,84	0,73
1220	65.00	0.880	11,49	570,50	0,76	11,04	605,36	0,69
1830	60.20	0.819	10,95	543,82	0,72	10,52	577,05	0,66
2440	55.90	0.760	10,42	517,38	0,68	10,01	549,00	0,63
3050	51.80	0.705	9,91	492,11	0,65	9,52	522,18	0,60
3660	48.00	0.653	9,42	467,60	0,62	9,05	496,18	0,57

m = 0,63								
m.s.n.m	b	δ	T = 20°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Va	C.S.
0	760.0	1.016	15,28	231,84	1,00	14,49	285,52	0,98
610	701.0	0.937	14,47	219,66	0,95	13,73	270,52	0,93
1220	650.0	0.870	13,77	209,06	0,90	13,07	257,47	0,89
1830	602.0	0.805	13,08	198,52	0,85	12,41	244,48	0,84
2440	559.0	0.747	12,44	188,86	0,81	11,81	232,59	0,80
3050	518.0	0.693	11,84	179,65	0,77	11,23	221,24	0,76
3660	480.0	0.642	11,25	170,72	0,73	10,67	210,25	0,72

m = 0,63								
m.s.n.m	b	δ	T = 20°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.016	13,49	377,77	0,87	13,07	498,78	0,86
610	701.0	0.937	12,78	357,92	0,82	12,39	472,58	0,81
1220	650.0	0.870	12,17	340,65	0,78	11,79	449,77	0,77
1830	602.0	0.805	11,55	323,47	0,74	11,19	427,08	0,73
2440	559.0	0.747	10,99	307,74	0,71	10,65	406,31	0,70
3050	518.0	0.693	10,45	292,72	0,67	10,13	386,49	0,66
3660	480.0	0.642	9,93	278,18	0,64	9,63	367,29	0,63

m = 0,63								
m.s.n.m	b	δ	T = 20°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.016	12,65	627,86	0,83	12,15	666,23	0,76
610	701.0	0.937	11,98	594,88	0,79	11,51	631,23	0,72
1220	650.0	0.870	11,40	566,17	0,75	10,96	600,77	0,69
1830	602.0	0.805	10,83	537,61	0,71	10,40	570,46	0,65
2440	559.0	0.747	10,30	511,46	0,68	9,90	542,72	0,62
3050	518.0	0.693	9,80	486,51	0,64	9,41	516,24	0,59
3660	480.0	0.642	9,31	462,34	0,61	8,95	490,59	0,56

m= 0,63

m.s.n.m	b	f	T=25°C 400 KV ACSR/AW 1272.0 Go.	Vb.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	1.000	15.12	229.40	0.99	14.34	282.52	0.97
610	70.10	0.922	14.32	217.31	0.94	13.58	267.63	0.92
1220	65.00	0.860	13.67	207.46	0.89	12.97	255.49	0.88
1830	60.20	0.791	12.93	196.21	0.84	12.26	241.64	0.83
2440	55.90	0.735	12.32	186.83	0.80	11.68	230.09	0.79
3050	51.80	0.681	11.70	177.57	0.76	11.10	218.68	0.75
3660	48.00	0.631	11.12	168.77	0.73	10.55	207.84	0.71

m= 0,63

m.s.n.m	b	f	T=25°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	76.00	1.000	13.35	373.79	0.86	12.94	493.53	0.85
610	70.10	0.922	12.65	354.09	0.81	12.25	467.52	0.80
1220	65.00	0.860	12.07	338.04	0.78	11.70	446.32	0.77
1830	60.20	0.791	11.42	319.70	0.73	11.06	422.12	0.73
2440	55.90	0.735	10.87	304.43	0.70	10.53	401.95	0.69
3050	51.80	0.681	10.33	289.33	0.66	10.01	382.01	0.66
3660	48.00	0.631	9.82	274.99	0.63	9.51	363.08	0.62

m= 0,63

m.s.n.m	b	f	T=25°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.000	12.51	621.25	0.82	12.02	659.21	0.76
610	70.10	0.922	11.85	588.51	0.78	11.39	624.47	0.72
1220	65.00	0.860	11.32	561.82	0.74	10.87	596.15	0.68
1830	60.20	0.791	10.70	531.35	0.70	10.28	563.82	0.65
2440	55.90	0.735	10.19	505.97	0.67	9.79	536.89	0.61
3050	51.80	0.681	9.68	480.87	0.64	9.30	510.26	0.58
3660	48.00	0.631	9.20	457.04	0.60	8.84	484.97	0.55

m.s.n.m	b	f	m= 0,63 T= 30° C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	0.983	14,94	226.79	0,98	14,18	279.31	0,96
610	70.10	0.906	14.15	214.79	0,93	13,43	264.52	0,91
1220	65.00	0.840	13,46	204,23	0,88	12,77	251,52	0,87
1830	60.20	0.778	12,79	194.05	0,84	12,13	238.98	0.82
2440	55.90	0.723	12,17	184.79	0,80	11,55	227,58	0,78
3050	51.80	0.670	11,57	175,65	0,76	10,98	216,32	0,74
3660	49.00	0.620	10,99	166,80	0,72	10,43	205.42	0,71

m.s.n.m	b	f	m= 0,63 T= 30°C 750 KV. ACSR/AW 1351.5 Gò.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	0.983	13,20	369,54	0,85	12,79	487,92	0,84
610	70.10	0.906	12,50	349,98	0,80	12,11	462,10	0,80
1220	65.00	0.840	11,89	332,77	0,76	11,52	439,37	0,76
1830	60.20	0.778	11,29	316,19	0,73	10,94	417,48	0,72
2440	55.90	0.723	10,75	301,11	0,69	10,42	397,56	0,68
3050	51.80	0.670	10,22	286,21	0,66	9,90	377,89	0,65
3660	48.00	0.620	9,71	271,78	0,62	9,40	358,85	0,62

m.s.n.m	b	f	m= 0,63 T= 30°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.983	12,37	614,19	0,81	11,89	651,72	0,75
610	70.10	0.906	11,72	581,68	0,77	11,26	617,23	0,71
1220	65.00	0.840	11,14	553,08	0,73	10,70	586,88	0,67
1830	60.20	0.778	10,58	525,52	0,70	10,17	557,63	0,64
2440	55.90	0.723	10,08	500,45	0,66	9,68	531,03	0,61
3050	51.80	0.670	9,58	475,68	0,63	9,20	504,75	0,58
3660	48.00	0.620	9,10	451,71	0,60	8,74	479,32	0,55

m.s.n.m	h	δ	m=0.63 T= 35°C 400 KV ACSR/AW 1272.0 Ge.	Vo.	C.S.	500 KV ACSR/AW 1113.5 Ge.	Vo.	C.S.
0	76.00	0.967	14.78	224.33	0.97	14.02	276.27	0.95
610	70.10	0.892	14.01	212.57	0.92	13.29	261.79	0.90
1220	65.00	0.830	13.35	202.60	0.87	12.66	249.52	0.86
1830	60.20	0.766	12.65	192.05	0.83	12.00	236.52	0.81
2440	55.90	0.711	12.04	182.74	0.79	11.42	225.06	0.77
3050	51.80	0.659	11.45	173.72	0.75	10.86	213.95	0.74
3660	48.00	0.610	10.87	165.00	0.71	10.31	203.20	0.70

m.s.n.m	h	δ	m= 0.63 T= 35°C 750 KV ACSR/AW 1351.5 Ge.	Vo.	C.S	1000 KV ACSR/AW 1272.0 Ge.	Vo.	C.S.
0	76.00	0.967	13.06	365.52	0.84	12.65	482.61	0.83
610	70.10	0.892	12.37	346.37	0.79	11.99	457.32	0.79
1220	65.00	0.830	11.79	330.13	0.76	11.42	435.88	0.75
1830	60.20	0.766	11.18	312.93	0.72	10.83	413.17	0.71
2440	55.90	0.711	10.63	297.77	0.68	10.30	393.15	0.68
3050	51.80	0.659	10.11	283.07	0.65	9.79	373.74	0.64
3660	48.00	0.610	9.60	268.85	0.62	9.30	354.98	0.61

m.s.n.m	h	δ	m= 0.63 T= 35°C 1300 KV ACSR/AW 1351.5 Ge.	Vo.	CS	1500 KV ACSR/AW 1590.0 Ge.	Vo.	C.S.
0	76.00	0.967	12.24	607.51	0.80	11.76	644.63	0.74
610	70.10	0.892	11.59	575.67	0.76	11.14	610.85	0.70
1220	65.00	0.830	11.05	548.68	0.73	10.62	582.21	0.67
1830	60.20	0.766	10.47	520.10	0.69	10.06	551.88	0.63
2440	55.90	0.711	9.97	494.90	0.65	9.58	525.14	0.60
3050	51.80	0.659	9.47	470.46	0.62	9.10	499.21	0.57
3660	48.00	0.610	9.00	446.84	0.59	8.65	474.15	0.54

m = 0,63								
			T = 40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
m.s.n.m	b	f	Go.	Va.	C.S.	Go	Va	C.S.
0	7600	0.951	14,62	221,85	0,96	13,87	273.21	0.94
610	7010	0.877	13,85	210,18	0,91	13,14	258.85	0.89
1220	6500	0.810	13,13	199,34	0,86	12,46	245.49	0,85
1830	6020	0.753	12,51	189,87	0,82	11,87	233.83	0,81
2440	5590	0.700	11,92	180,85	0,78	11,30	222.73	0,77
3050	5180	0.648	11,33	171,78	0,74	10,74	211.56	0.73
3660	4800	0.601	10,76	163,37	0,70	10,21	201.20	0.69

m = 0,63								
			T = 40°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
m.s.n.m	b	f	Go.	Va.	C.S	Go.	Va.	C.S.
0	7600	0.951	12,91	361,48	0,83	12,51	477.21	0,82
610	7010	0.877	12,23	342,48	0,79	11,85	452,18	0,78
1220	6500	0.810	11,60	324,80	0,75	11,24	428,85	0,74
1830	6020	0.753	11,05	309,38	0,71	10,71	408,49	0,70
2440	5590	0.700	10,52	294,69	0,68	10,20	389,09	0,67
3050	5180	0.648	10,00	279,91	0,64	9,69	369,57	0,64
3660	4800	0.601	9,51	266,20	0,61	9,21	351,48	0,60

m = 0,63								
			T = 40°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
m.s.n.m	b	f	Go.	Va.	CS	Go.	Va.	C.S.
0	7600	0.951	12,10	600,79	0,80	11,63	637,50	0,73
610	7010	0.877	11,46	569,20	0,75	11,01	603,98	0,69
1220	6500	0.810	10,87	539,83	0,71	10,45	572,82	0,66
1830	6020	0.753	10,36	514,20	0,68	9,95	545,62	0,63
2440	5590	0.700	9,86	489,78	0,65	9,48	519,71	0,60
3050	5180	0.648	9,37	465,21	0,61	9,00	493,64	0,57
3660	4800	0.601	8,91	442,44	0,58	8,56	469,47	0,54

m = 0,63

m.s.n.m	b	δ	T = 45°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	0.936	14.46	219.51	0.95	13.72	270.33	0.93
610	70.10	0.864	13.71	208.10	0.90	13.01	256.28	0.88
1220	65.00	0.800	13.03	197.69	0.85	12.36	243.47	0.84
1830	60.20	0.742	12.39	188.02	0.81	11.75	231.55	0.80
2440	55.90	0.689	11.79	178.96	0.77	11.19	220.39	0.76
3050	51.80	0.638	11.20	170.01	0.73	10.63	209.38	0.72
3660	48.00	0.591	10.64	161.56	0.69	10.10	198.96	0.68

m = 0,63

m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.936	12.77	357.67	0.82	12.38	472.24	0.81
610	70.10	0.864	12.11	339.08	0.78	11.73	447.70	0.77
1220	65.00	0.800	11.50	322.12	0.74	11.15	425.31	0.73
1830	60.20	0.742	10.94	306.36	0.70	10.60	404.50	0.70
2440	55.90	0.689	10.41	291.59	0.67	10.09	385.00	0.66
3050	51.80	0.638	9.89	277.02	0.63	9.59	365.76	0.63
3660	48.00	0.591	9.40	263.24	0.60	9.11	347.57	0.60

m = 0,63

m.s.n.m	b	δ	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.936	11.97	594.45	0.79	11.50	630.78	0.72
610	70.10	0.864	11.35	563.56	0.75	10.90	598.00	0.69
1220	65.00	0.800	10.78	535.38	0.71	10.36	568.09	0.65
1830	60.20	0.742	10.25	509.18	0.67	9.85	540.29	0.62
2440	55.90	0.689	9.76	484.63	0.64	9.38	514.25	0.59
3050	51.80	0.638	9.27	460.41	0.61	8.91	488.55	0.56
3660	48.00	0.591	8.81	437.51	0.58	8.46	464.25	0.53

m = 0,63								
m.s.n.m	b	δ	T = 50°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	0.922	14,32	217,31	0,94	13,58	267,63	0,92
610	70.10	0.850	13,56	205,85	0,89	12,87	253,51	0,87
1220	65.00	0.790	12,92	196,04	0,84	12,25	241,43	0,83
1830	60.20	0.730	12,25	185,99	0,80	11,63	229,05	0,79
2440	55.90	0.678	11,66	177,05	0,76	11,07	218,04	0,75
3050	51.80	0.628	11,08	168,23	0,72	10,51	207,18	0,71
3660	48.00	0.582	10,53	159,91	0,69	9,99	196,94	0,68

m = 0,63								
m.s.n.m	b	δ	T = 50°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.922	12,65	354,09	0,81	12,25	467,52	0,80
610	70.10	0.850	11,98	335,41	0,77	11,61	442,85	0,76
1220	65.00	0.790	11,41	319,43	0,73	11,05	421,76	0,73
1830	60.20	0.730	10,82	303,05	0,69	10,49	400,13	0,69
2440	55.90	0.678	10,30	288,48	0,66	9,98	380,89	0,65
3050	51.80	0.628	9,79	274,12	0,63	9,48	361,93	0,62
3660	48.00	0.582	9,31	260,56	0,60	9,02	344,03	0,59

m = 0,63								
m.s.n.m	b	δ	T = 50°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.922	11,85	588,51	0,78	11,39	624,47	0,72
610	70.10	0.850	11,23	557,46	0,74	10,79	591,52	0,68
1220	65.00	0.790	10,69	530,91	0,70	10,27	563,35	0,65
1830	60.20	0.730	10,14	503,67	0,70	9,75	534,45	0,61
2440	55,90	0.678	9,66	479,46	0,63	9,28	508,76	0,58
3050	51,80	0.628	9,18	455,59	0,60	8,81	483,43	0,55
3660	48.00	0.582	8,72	433,06	0,57	8,38	459,53	0,53

m.s.n.m	θ	f	m= 0,63 T=55°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	0.908	14.17	215.11	0.93	13.45	264.91	0.91
610	70.10	0.837	13.42	203.74	0.88	12.74	250.92	0.86
1220	65.00	0.780	12.81	194.38	0.84	12.15	239.39	0.82
1830	60.20	0.719	12.13	184.11	0.79	11.51	226.74	0.78
2440	55.90	0.668	11.55	175.30	0.75	10.96	215.89	0.74
3050	51.80	0.619	10.98	166.62	0.72	10.41	205.20	0.71
3660	48.00	0.573	10.43	158.26	0.68	9.89	194.90	0.67

m.s.n.m	b	f	m= 0,63 T=55°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	0.908	12.52	350.50	0.80	12.13	462.78	0.80
610	70.10	0.837	11.86	331.98	0.76	11.49	438.33	0.75
1220	65.00	0.780	11.31	316.72	0.73	10.96	418.19	0.72
1830	60.20	0.719	10.71	300.00	0.69	10.38	396.10	0.68
2440	55.90	0.668	10.20	285.64	0.65	9.88	377.14	0.65
3050	51.80	0.619	9.70	271.49	0.62	9.39	358.46	0.62
3660	48.00	0.573	9.21	257.87	0.59	8.92	340.47	0.58

m.s.n.m	b	f	m= 0,63 T=55°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.908	11.73	582.54	0.77	11.27	618.14	0.71
610	70.10	0.837	11.11	551.76	0.73	10.68	585.48	0.67
1220	65.00	0.780	10.60	526.42	0.70	10.19	558.59	0.64
1830	60.20	0.719	10.04	498.60	0.66	9.65	529.07	0.61
2440	55.90	0.668	9.56	474.74	0.63	9.19	503.75	0.58
3050	51.80	0.619	9.09	451.23	0.60	8.73	478.80	0.55
3660	48.00	0.573	8.63	428.59	0.57	8.29	454.78	0.52

m = 0.63								
m.s.n.m	b	δ	T = 60°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.894	14.03	212.89	0.92	13.31	262.18	0.90
610	70.10	0.825	13.30	201.79	0.87	12.61	248.51	0.86
1220	65.00	0.770	12.70	192.72	0.83	12.05	237.34	0.82
1830	60.20	0.708	12.01	182.23	0.78	11.39	224.42	0.77
2440	55.90	0.658	11.43	173.55	0.75	10.85	213.73	0.74
3050	51.80	0.609	10.86	164.82	0.71	10.30	202.98	0.70
3660	48.00	0.565	10.33	156.78	0.67	9.80	193.08	0.66

m = 0.63								
m.s.n.m	b	δ	T = 60°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.894	12.39	346.89	0.80	12.00	458.01	0.79
610	70.10	0.825	11.74	328.80	0.75	11.38	434.13	0.75
1220	65.00	0.770	11.22	314.02	0.72	10.87	414.61	0.71
1830	60.20	0.708	10.60	296.93	0.68	10.27	392.05	0.67
2440	55.90	0.658	10.10	282.78	0.65	9.78	373.36	0.64
3050	51.80	0.609	9.59	268.56	0.62	9.29	354.59	0.61
3660	48.00	0.565	9.12	255.46	0.58	8.84	337.30	0.58

m = 0.63								
m.s.n.m	b	δ	T = 60° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.894	11.61	576.53	0.76	11.16	611.76	0.70
610	70.10	0.825	11.01	546.47	0.72	10.57	579.87	0.66
1220	65.00	0.770	10.51	521.91	0.69	10.10	553.80	0.63
1830	60.20	0.708	9.94	493.50	0.65	9.55	523.66	0.60
2440	55.90	0.658	9.47	469.99	0.62	9.09	498.71	0.57
3050	51.80	0.609	8.99	446.35	0.59	8.64	473.63	0.54
3660	48.00	0.565	8.55	424.59	0.56	8.21	450.53	0.52

m = 0,595									
m.s.n.m	b	f	T = -10° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	76.00	1.132	15.51	235.33	1.01	14.71	289.81	1.00	
610	70.10	1.044	14.69	222.97	0.96	13.94	274.59	0.95	
1220	65.00	0.970	13.99	212.30	0.91	13.27	261.46	0.90	
1830	60.20	0.897	13.28	201.51	0.87	12.60	248.17	0.85	
2440	55.90	0.833	12.64	191.81	0.83	11.99	236.22	0.81	
3050	51.80	0.772	12.01	182.33	0.78	11.40	224.54	0.77	
3660	48.00	0.715	11.41	173.24	0.75	10.83	213.35	0.73	

m = 0,595									
m.s.n.m	b	f	T = -10° C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go	Vo	C.S.	
0	76.00	1.132	13.70	383.45	0.88	13.27	506.28	0.87	
610	70.10	1.044	12.98	363.31	0.83	12.57	479.69	0.83	
1220	65.00	0.970	12.36	345.93	0.79	11.97	456.74	0.79	
1830	60.20	0.897	11.73	328.35	0.75	11.36	433.53	0.75	
2440	55.90	0.833	11.16	312.54	0.72	10.81	412.65	0.71	
3050	51.80	0.772	10.61	297.09	0.68	10.28	392.25	0.67	
3660	48.00	0.715	10.08	282.28	0.65	9.77	372.70	0.64	

m = 0,595									
m.s.m	b	f	T = -10° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	76.00	1.132	12.84	637.29	0.84	12.33	676.24	0.78	
610	70.10	1.044	12.16	603.82	0.80	11.68	640.72	0.73	
1220	65.00	0.970	11.58	574.94	0.76	11.13	610.08	0.70	
1830	60.20	0.897	10.99	545.72	0.72	10.56	579.07	0.66	
2440	55.90	0.833	10.46	519.44	0.69	10.05	551.19	0.63	
3050	51.80	0.772	9.94	493.77	0.65	9.55	523.94	0.60	
3660	48.00	0.715	9.45	469.15	0.62	9.08	497.82	0.57	

m=0,595									
m.s.n.m	b	δ	T=-5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	76.00	1.111	15.31	232.41	1.00	14.53	286.22	0.99	
610	70.10	1.025	14.51	220.25	0.95	13.77	271.25	0.93	
1220	65.00	0.950	13.79	209.37	0.90	13.09	257.85	0.89	
1830	60.20	0.880	13.11	198.96	0.86	12.44	245.02	0.84	
2440	55.90	0.817	12.47	189.35	0.81	11.84	233.19	0.80	
3050	51.80	0.757	11.86	179.96	0.77	11.25	221.63	0.76	
3660	48.00	0.702	11.27	171.13	0.74	10.70	210.76	0.73	

m=0,595									
m.s.n.m	b	δ	T=-5°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	76.00	1.111	13.53	378.69	0.87	13.10	499.90	0.86	
610	70.10	1.025	12.82	358.88	0.82	12.42	473.85	0.82	
1220	65.00	0.950	12.18	341.16	0.78	11.81	450.44	0.78	
1830	60.20	0.880	11.58	324.19	0.74	11.22	428.03	0.74	
2440	55.90	0.817	11.02	308.52	0.71	10.68	407.35	0.70	
3050	51.80	0.757	10.47	293.23	0.67	10.15	387.16	0.67	
3660	48.00	0.702	9.96	278.85	0.64	9.65	368.17	0.63	

m=0.595									
m.s.n.m	b	δ	T=-5°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	1.111	12.68	629.39	0.83	12.18	667.85	0.77	
610	70.10	1.025	12.01	596.47	0.79	11.54	632.92	0.73	
1220	65.00	0.950	11.42	567.01	0.75	10.97	601.66	0.69	
1830	60.20	0.880	10.85	538.80	0.71	10.43	571.73	0.66	
2440	55.90	0.817	10.33	512.77	0.68	9.92	544.11	0.62	
3050	51.80	0.757	9.82	487.35	0.64	9.43	517.13	0.59	
3660	48.00	0.702	9.33	463.45	0.61	8.97	491.77	0.56	

m.s.n.m	b	f	m= 0.595 T= 0°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	76.00	1.091	15.13	229.61	0.99	14.35	282.77	0.97
610	70.10	1.006	14.33	217.52	0.94	13.60	267.89	0.92
1220	65.00	0.930	13.60	206.42	0.89	12.90	254.22	0.88
1830	60.20	0.864	12.95	196.54	0.85	12.29	242.05	0.83
2440	55.90	0.802	12.32	187.02	0.80	11.69	230.32	0.79
3050	51.80	0.743	11.71	177.73	0.76	11.11	218.88	0.75
3660	48.00	0.689	11.13	169.01	0.73	10.56	208.15	0.72

m.s.n.m	b	f	m= 0.595 T= 0°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	1.091	13.36	374.13	0.86	12.95	493.98	0.85
610	70.10	1.006	12.66	354.44	0.81	12.27	467.97	0.81
1220	65.00	0.930	12.01	336.35	0.77	11.64	444.10	0.76
1830	60.20	0.864	11.44	320.24	0.73	11.08	422.83	0.73
2440	55.90	0.802	10.88	304.74	0.70	10.54	402.35	0.69
3050	51.80	0.743	10.34	289.60	0.66	10.02	382.37	0.66
3660	48.00	0.689	9.84	275.39	0.63	9.53	363.61	0.62

m.s.n.m	b	f	m=0.595 T= 0° C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.091	12.52	621.81	0.82	12.03	659.81	0.76
610	70.10	1.006	11.86	589.08	0.78	11.40	625.08	0.72
1220	65.00	0.930	11.26	559.02	0.74	10.82	593.19	0.68
1830	60.20	0.864	10.72	532.25	0.70	10.30	564.78	0.65
2440	55.90	0.802	10.20	506.48	0.67	9.80	537.43	0.62
3050	51.80	0.743	9.69	481.32	0.64	9.31	510.74	0.58
3660	48.00	0.689	9.22	457.71	0.60	8.86	485.68	0.56

m = 0,595								
m.s.n.m	b	δ	T = 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	1.071	14,94	226,79	0,98	14,18	279,31	0,96
610	70.10	0.988	14,16	214,92	0,93	13,43	264,68	0,91
1220	65.00	0.920	13,50	204,94	0,88	12,81	252,39	0,87
1830	60.20	0.848	12,79	194,11	0,84	12,13	239,05	0,82
2440	55.90	0.788	12,18	184,84	0,80	11,55	227,64	0,78
3050	51.80	0.730	11,57	175,65	0,76	10,98	216,32	0,74
3660	48.00	0.676	10,99	166,88	0,72	10,43	205,52	0,71

m = 0,595								
m.s.n.m	b	δ	T = 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.071	13,20	369,54	0,85	12,79	487,92	0,84
610	70.10	0.988	12,51	350,20	0,80	12,12	462,37	0,80
1220	65.00	0.920	11,93	333,94	0,77	11,56	440,91	0,76
1830	60.20	0.848	11,30	316,28	0,73	10,94	417,59	0,72
2440	55.90	0.788	10,76	301,18	0,69	10,42	397,66	0,68
3050	51.80	0.730	10,22	286,21	0,66	9,90	377,90	0,65
3660	48.00	0.676	9,71	271,92	0,62	9,41	359,02	0,62

m = 0,595								
m.s.n.m	b	δ	T = 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.071	12,37	614,19	0,81	11,89	651,72	0,75
610	70.10	0.988	11,72	582,03	0,77	11,26	617,60	0,71
1220	65.00	0.920	11,18	555,01	0,73	10,74	588,93	0,68
1830	60.20	0.848	10,59	525,66	0,70	10,17	557,78	0,64
2440	55.90	0.788	10,08	500,57	0,66	9,69	531,15	0,61
3050	51.80	0.730	9,58	475,69	0,63	9,20	504,76	0,58
3660	48.00	0.676	9,10	451,93	0,60	8,74	479,55	0,55

m = 0.595									
m.s.n.m	b	δ	T = 10° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo	C.S.	
0	760.0	1.052	14,77	224,10	0,97	14,01	275,99	0,95	
610	701.0	0.970	13,99	212,30	0,91	13,27	261,46	0,90	
1220	650.0	0.900	13,31	201,96	0,87	12,62	248,72	0,86	
1830	602.0	0.833	12,64	191,81	0,83	11,99	236,22	0,81	
2440	559.0	0.774	11,72	177,89	0,77	11,12	219,08	0,75	
3050	518.0	0.717	11,43	173,56	0,75	10,85	213,75	0,74	
3660	480.0	0.664	10,86	164,90	0,71	10,31	203,08	0,70	

m = 0.595									
m.s.n.m	b	δ	T = 10° C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	760.0	1.052	13,04	365,16	0,84	12,64	482,13	0,83	
610	701.0	0.970	12,36	345,93	0,79	11,97	456,74	0,79	
1220	650.0	0.900	11,75	329,08	0,75	11,39	434,49	0,75	
1830	602.0	0.833	11,16	312,54	0,72	10,81	412,65	0,71	
2440	559.0	0.774	10,35	289,86	0,66	10,03	382,71	0,66	
3050	518.0	0.717	10,10	282,80	0,65	9,79	373,40	0,64	
3660	480.0	0.664	9,60	268,69	0,62	9,30	354,76	0,61	

m = 0.595									
m.s.n.m	b	δ	T = 10° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo	C.S.	
0	760.0	1.052	12,22	606,90	0,80	11,74	643,99	0,74	
610	701.0	0.970	11,58	574,94	0,76	11,13	610,08	0,70	
1220	650.0	0.900	11,02	546,94	0,72	10,58	580,36	0,67	
1830	602.0	0.833	10,46	519,44	0,69	10,05	551,19	0,63	
2440	559.0	0.774	9,70	481,75	0,64	9,32	511,19	0,59	
3050	518.0	0.717	9,47	470,03	0,62	9,09	498,75	0,57	
3660	480.0	0.664	8,99	446,57	0,59	8,64	473,86	0,54	

m = 0.595								
m.s.n.m	b	δ	T = 15°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.034	14,60	221,54	0,95	13,85	272,84	0,94
610	701.0	0.954	13,83	209,96	0,90	13,12	258,58	0,89
1220	650.0	0.880	13,11	198,96	0,86	12,44	245,02	0,84
1830	602.0	0.819	12,50	189,65	0,82	11,85	233,57	0,80
2440	559.0	0.760	11,89	180,43	0,78	11,28	222,21	0,76
3050	518.0	0.705	11,31	171,62	0,74	10,73	211,36	0,73
3660	480.0	0.653	10,74	163,07	0,70	10,19	200,83	0,69

m = 0.595								
m.s.n.m	b	δ	T = 15°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.034	12,89	360,98	0,83	12,49	476,62	0,82
510	701.0	0.954	12,22	342,11	0,79	11,84	451,71	0,78
1220	650.0	0.880	11,58	324,19	0,74	11,22	428,03	0,74
1830	602.0	0.819	11,04	309,03	0,71	10,69	408,02	0,70
2440	559.0	0.760	10,50	294,00	0,67	10,17	388,18	0,67
3050	518.0	0.705	9,99	279,64	0,64	9,68	369,22	0,63
3660	480.0	0.653	9,49	265,71	0,61	9,19	350,83	0,60

m = 0.595								
m.s.n.m	b	δ	T = 15°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.034	12,08	599,96	0,79	11,61	636,62	0,73
610	701.0	0.954	11,45	568,60	0,75	11,00	603,35	0,69
1220	650.0	0.880	10,85	538,80	0,71	10,43	571,73	0,66
1830	602.0	0.819	10,34	513,61	0,68	9,94	544,99	0,62
2440	559.0	0.760	9,84	488,64	0,65	9,45	518,50	0,59
3050	518.0	0.705	9,36	464,77	0,61	8,99	493,17	0,56
3660	480.0	0.653	8,89	441,62	0,58	8,54	468,61	0,54

m = 0,595									
m.s.n.m	b	f	T = 20°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo.	C.S.	
0	760.0	1.016	14,43	218,96	0,94	13,69	269,66	0,93	
610	701.0	0.937	13,67	207,46	0,89	12,97	255,49	0,88	
1220	650.0	0.870	13,01	197,45	0,85	12,34	243,17	0,84	
1830	602.0	0.805	12,35	187,49	0,81	11,72	230,90	0,79	
2440	559.0	0.747	11,75	178,37	0,77	11,15	219,67	0,76	
3050	518.0	0.693	11,18	169,67	0,73	10,60	208,95	0,72	
3660	480.0	0.642	10,62	161,24	0,69	10,08	198,57,	0,68	

m = 0,595									
m.s.n.m	b	f	T = 20°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	760.0	1.016	12,74	356,78	0,82	12,35	471,07	0,81	
610	701.0	0.937	12,07	338,04	0,78	11,70	446,32	0,77	
1220	650.0	0.870	11,49	321,73	0,74	11,13	424,79	0,73	
1830	602.0	0.805	10,91	305,49	0,70	10,57	403,35	0,69	
2440	559.0	0.747	10,38	290,64	0,67	10,06	383,74	0,66	
3050	518.0	0.693	9,87	276,46	0,63	9,57	365,02	0,63	
3660	480.0	0.642	9,38	262,72	0,60	9,09	346,88	0,60	

m=0,595									
m.s.n.m	b	f	T = 20°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	1.016	11,94	592,98	0,79	11,47	629,21	0,72	
610	70.10	0.937	11,32	561,83	0,74	10,87	596,16	0,68	
1220	65.00	0.870	10,77	534,71	0,71	10,35	567,39	0,65	
1830	60.20	0.805	10,23	507,74	0,67	9,82	538,77	0,62	
2440	55.90	0.747	9,73	483,05	0,64	9,35	512,57	0,59	
3050	51.80	0.693	9,25	459,48	0,61	8,89	487,56	0,56	
3660	48.00	0.642	8,79	436,65	0,58	8,45	463,33	0,53	

m = 0.595									
m.s.n.m	b	δ	T = 25°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	1.000	14,28	216,66	0,93	13,54	266,82	0,92
610	701.0	0.922	13,52	205,24	0,88	12,83	252,76	0,87
1220	650.0	0.860	12,91	195,93	0,84	12,25	241,30	0,83
1830	602.0	0.791	12,21	185,31	0,80	11,58	228,21	0,79
2440	559.0	0.735	11,63	176,45	0,76	11,03	217,31	0,75
3050	518.0	0.681	11,05	167,70	0,72	10,48	206,53	0,71
3660	480.0	0.631	10,50	159,39	0,69	9,96	196,29	0,67

m = 0.595									
m.s.n.m	b	δ	T = 25°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.000	12,61	353,03	0,81	12,22	466,11	0,80
610	701.0	0.922	11,94	334,42	0,77	11,57	441,55	0,76
1220	650.0	0.860	11,40	319,26	0,73	11,05	421,52	0,73
1830	602.0	0.791	10,78	301,94	0,69	10,45	398,66	0,69
2440	559.0	0.735	10,27	287,52	0,66	9,95	379,62	0,65
3050	518.0	0.681	9,76	273,26	0,63	9,45	360,79	0,62
3660	480.0	0.631	9,27	259,71	0,59	8,99	342,91	0,59

m = 0.595									
m.s.n.m	b	δ	T = 25°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.000	11,82	586,74	0,78	11,35	622,59	0,71
610	701.0	0.922	11,19	555,81	0,74	10,75	589,79	0,68
1220	650.0	0.860	10,69	530,61	0,70	10,27	563,03	0,65
1830	602.0	0.791	10,11	501,83	0,66	9,71	532,50	0,61
2440	559.0	0.735	9,62	477,86	0,63	9,25	507,06	0,58
3050	518.0	0.681	9,15	454,16	0,60	8,79	481,91	0,55
3660	480.0	0.631	8,69	431,65	0,57	8,35	458,03	0,52

m = 0,595								
m.s.n.m	b	δ	T = 30°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S.	Go	Vo	C.S.
0	76.00	0.983	14,11	214,19	0,92	13,39	263,79	0,91
610	70.10	0.906	13,37	202,86	0,87	12,68	249,83	0,86
1220	65.00	0.840	12,71	192,88	0,83	12,06	237,54	0,82
1830	60.20	0.778	12,07	183,27	0,79	11,46	225,71	0,78
2440	55.90	0.723	11,50	174,53	0,75	10,91	214,94	0,74
3050	51.80	0.670	10,93	165,89	0,71	10,37	204,30	0,70
3660	48.00	0.620	10,38	157,53	0,68	9,85	194,01	0,67

m = 0,595								
m.s.n.m	b	δ	T = 30°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.983	12,47	349,01	0,80	12,08	460,81	0,79
610	70.10	0.906	11,81	330,54	0,76	11,44	436,42	0,75
1220	65.00	0.840	11,22	314,29	0,72	10,88	414,96	0,71
1830	60.20	0.778	10,67	298,63	0,68	10,33	394,28	0,68
2440	55.90	0.723	10,16	284,38	0,65	9,84	375,48	0,65
3050	51.80	0.670	9,65	270,31	0,62	9,35	356,90	0,61
3660	48.00	0.620	9,17	256,69	0,59	8,88	338,91	0,58

m = 0,595								
m.s.n.m	b	δ	T = 30°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go	Vo.	C.S.
0	76.00	0.983	11,68	580,07	0,77	11,22	615,51	0,71
610	70.10	0.906	11,06	549,37	0,73	10,63	582,94	0,67
1220	65.00	0.840	10,52	522,35	0,69	10,11	554,27	0,64
1830	60.20	0.778	10,00	496,32	0,66	9,60	526,65	0,60
2440	55.90	0.723	9,52	472,65	0,62	9,14	501,53	0,57
3050	51.80	0.670	9,05	449,26	0,59	8,69	476,71	0,55
3660	48.00	0.620	8,59	426,62	0,56	8,25	452,69	0,52

m = 0.595									
m.s.n.m	b	δ	T = 35 °C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo	C.S.	
0	76.00	0.967	13.96	211.86	0.91	13.24	260.92	0.90	
610	70.10	0.892	13.23	200.76	0.86	12.55	247.25	0.85	
1220	65.00	0.830	12.61	191.35	0.82	11.96	235.65	0.81	
1830	60.20	0.766	11.95	181.38	0.78	11.34	223.38	0.77	
2440	55.90	0.711	11.37	172.59	0.74	10.79	212.55	0.73	
3050	51.80	0.659	10.81	164.07	0.71	10.25	202.06	0.69	
3660	48.00	0.610	10.27	155.83	0.67	9.74	191.92	0.66	

m = 0.595									
m.s.n.m	b	δ	T = 35 °C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo	C.S.	
0	76.00	0.967	12.33	345.22	0.79	11.95	455.80	0.78	
610	70.10	0.892	11.68	327.13	0.75	11.32	431.92	0.74	
1220	65.00	0.830	11.14	311.79	0.72	10.79	411.66	0.71	
1830	60.20	0.766	10.56	295.55	0.68	10.23	390.22	0.67	
2440	55.90	0.711	10.04	281.22	0.64	9.73	371.31	0.64	
3050	51.80	0.659	9.55	267.34	0.61	9.25	352.98	0.61	
3660	48.00	0.610	9.07	253.92	0.58	8.79	335.26	0.58	

m = 0.595									
m.s.n.m	b	δ	T = 35 °C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	0.967	11.56	573.76	0.76	11.10	608.82	0.70	
610	70.10	0.892	10.95	543.69	0.72	10.52	576.92	0.66	
1220	65.00	0.830	10.44	518.20	0.69	10.03	549.86	0.63	
1830	60.20	0.766	9.89	491.20	0.65	9.50	521.22	0.60	
2440	55.90	0.711	9.41	467.40	0.62	9.04	495.96	0.57	
3050	51.80	0.659	8.95	444.32	0.59	8.60	471.48	0.54	
3660	48.00	0.610	8.50	422.02	0.56	8.16	447.81	0.51	

m = 0,595								
m.s.n.m	b	δ	T = 40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.951	13,80	209,52	0,90	13,10	258,03	0,89
610	70.10	0.877	13,08	198,51	0,85	12,41	244,47	0,84
1220	65.00	0.810	12,40	188,26	0,81	11,77	231,85	0,80
1830	60.20	0.753	11,81	179,32	0,77	11,21	220,84	0,76
2440	55.90	0.700	11,25	170,81	0,73	10,68	210,36	0,72
3050	51.80	0.648	10,69	162,24	0,70	10,14	199,80	0,69
3660	48.00	0.601	10,16	154,30	0,66	9,64	190,02	0,65

m = 0,595								
m.s.n.m	b	δ	T = 40° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vc	C.S.
0	76.00	0.951	12,19	341,40	0,78	11,81	450,76	0,78
610	70.10	0.877	11,55	323,45	0,74	11,19	427,06	0,73
1220	65.00	0.810	10,96	306,76	0,70	10,61	405,02	0,70
1830	60.20	0.753	10,44	292,19	0,67	10,11	385,79	0,66
2440	55.90	0.700	9,94	278,32	0,64	9,63	367,47	0,63
3050	51.80	0.648	9,44	264,36	0,61	9,15	349,04	0,60
3660	48.00	0.601	8,98	251,41	0,58	8,70	331,95	0,57

m=0,595								
m.s.n.m	b	δ	T = 40° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.951	11,43	567,41	0,75	10,98	602,08	0,69
610	70.10	0.877	10,83	537,58	0,71	10,40	570,43	0,65
1220	65.00	0.810	10,27	509,84	0,67	9,86	540,99	0,62
1830	60.20	0.753	9,78	485,63	0,64	9,40	515,31	0,59
2440	55.90	0.700	9,32	462,57	0,61	8,95	490,83	0,56
3050	51.80	0.648	8,85	439,37	0,58	8,50	466,22	0,53
3660	48.00	0.601	8,41	417,86	0,55	8,08	443,39	0,51

m = 0.595								
m.s.n.m	b	δ	T = 45°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	0.936	13,66	207,31	0,89	12,96	255,31	0,88
610	70.10	0.864	12.95	196.54	0.85	12.29	242.05	0.83
1220	65.00	0.800	12,30	186,71	0,80	11,67	229,94	0,79
1830	60.20	0.742	11.70	177.57	0.76	11.10	218,69	0.75
2440	55.90	0.689	11.13	169.01	0.73	10,56	208,15	0,72
3050	51.80	0.638	10,58	160,57	0,69	10,04	197,74	0,68
3660	48.00	0.591	10,05	152,58	0,66	9,54	187,91	0,65

m = 0.595								
m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	0.936	12,06	337.80	0,78	11,69	446,01	0,77
610	70.10	0.864	11.44	320.24	0.73	11.08	422,83	0,73
1220	65.00	0.800	10,87	304.23	0,70	10,53	401,68	0,69
1830	60.20	0.742	10,33	289.34	0,66	10,01	382,03	0,66
2440	55.90	0.689	9,84	275,39	0,63	9,53	363,61	0,62
3050	51.80	0.638	9,34	261,63	0,60	9,05	345,44	0,59
3660	48.00	0.591	8,88	248,62	0,57	8,60	328,26	0,56

m = 0.595								
m.s.n.m	b	δ	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.936	11,31	561,43	0,74	10,86	595,73	0,68
610	70.10	0.864	10,72	532,25	0,70	10,30	564,78	0,65
1220	65.00	0.800	10,18	505,63	0,67	9,78	536,53	0,61
1830	60.20	0.742	9,68	480,89	0,64	9,30	510,28	0,58
2440	55.90	0.689	9,22	457,71	0,60	8,86	485,68	0,56
3050	51.80	0.638	8,76	434,83	0,57	8,41	461,41	0,53
3660	48.00	0.591	8,32	413,21	0,55	7,99	438,46	0,50

m.s.n.m	b	f	m= 0.595 T=50°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Gc	Vo	C.S.
0	76.00	0.922	13.52	205.24	0.88	12.83	252.76	0.87
610	70.10	0.850	12.81	194.41	0.84	12.15	239.42	0.82
1220	65.00	0.790	12.20	185.15	0.80	11.57	228.02	0.78
1830	60.20	0.730	11.57	175.65	0.76	10.98	216.32	0.74
2440	55.90	0.678	11.02	167.21	0.72	10.45	205.92	0.71
3050	51.80	0.628	10.47	158.88	0.68	9.93	195.67	0.67
3660	48.00	0.582	9.95	151.03	0.65	9.44	186.00	0.64

m.s.n.m	b	f	m= 0.595 T=50°C 750 KV. ACSR/AW 1351.5 Go.	Vc.	CS	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	76.00	0.922	11.94	334.42	0.77	11.57	441.55	0.76
610	70.10	0.850	11.31	316.78	0.73	10.96	418.25	0.72
1220	65.00	0.790	10.77	301.69	0.69	10.44	398.33	0.68
1830	60.20	0.730	10.22	286.21	0.66	9.90	377.90	0.65
2440	55.90	0.678	9.73	272.45	0.62	9.43	359.73	0.62
3050	51.80	0.628	9.25	258.89	0.59	8.96	341.82	0.59
3660	48.00	0.582	8.79	246.09	0.56	8.51	324.92	0.56

m.s.n.m	b	f	m= 0.595 T=50 1300 KV. ACSR/AW 1351.5 Ga	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	0.922	11.19	555.81	0.74	10.75	589.78	0.68
610	70.10	0.850	10.60	526.49	0.70	10.19	558.66	0.64
1220	65.00	0.790	10.10	501.41	0.66	9.70	532.05	0.61
1830	60.20	0.730	9.58	475.69	0.63	9.20	504.76	0.58
2440	55.90	0.678	9.12	452.82	0.60	8.76	480.50	0.55
3050	51.80	0.628	8.67	430.28	0.57	8.32	456.57	0.52
3660	48.00	0.582	8.24	409.00	0.54	7.91	434.00	0.50

m = 0.595								
m.s.n.m	a	δ	T = 55°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.908	13.39	203.16	0.87	12.70	250.20	0.86
610	70.10	0.837	12.68	192.42	0.83	12.03	236.98	0.82
1220	65.00	0.780	12.10	183.59	0.79	11.46	226.09	0.78
1830	60.20	0.719	11.46	173.88	0.75	10.87	214.15	0.74
2440	55.90	0.668	10.91	165.56	0.71	10.35	203.90	0.70
3050	51.80	0.619	10.37	157.36	0.68	9.84	193.80	0.67
3660	48.00	0.573	9.85	149.47	0.64	9.34	184.07	0.63

m = 0.595								
m.s.n.m	b	δ	T = 55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	7600	0.908	11.82	331.03	0.76	11.45	437.07	0.75
610	7010	0.837	11.20	313.54	0.72	10.85	413.97	0.71
1220	6500	0.780	10.68	299.14	0.69	10.35	394.96	0.68
1830	6020	0.719	10.12	283.33	0.65	9.80	374.09	0.64
2440	5590	0.668	9.63	269.77	0.62	9.33	356.18	0.61
3050	5180	0.619	9.16	256.41	0.59	8.87	338.55	0.58
3660	4800	0.573	8.70	243.54	0.56	8.43	321.56	0.55

m = 0.595								
m.s.n.m	b	δ	T = 55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.908	11.08	550.17	0.73	10.65	583.79	0.67
610	70.10	0.837	10.50	521.11	0.69	10.08	552.95	0.63
1220	65.00	0.780	10.01	497.17	0.66	9.62	527.55	0.60
1830	60.20	0.719	9.48	470.90	0.62	9.11	499.68	0.57
2440	55.90	0.668	9.03	448.36	0.59	8.67	475.76	0.54
3050	51.80	0.619	8.58	426.16	0.56	8.24	452.20	0.52
3660	48.00	0.573	8.15	404.78	0.53	7.83	429.51	0.49

m.s.n.m	b	δ	m= 0.595 T=60°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	760.0	0.894	13.25	201.06	0.87	12.57	247.62	0.85
610	701.0	0.825	12.56	190.58	0.82	11.91	234.71	0.81
1220	650.0	0.770	11.99	182.01	0.78	11.38	224.16	0.77
1830	602.0	0.708	11.34	172.11	0.74	10.76	211.96	0.73
2440	559.0	0.658	10.80	163.90	0.70	10.24	201.86	0.69
3050	518.0	0.609	10.25	155.66	0.67	9.73	191.71	0.66
3660	480.0	0.565	9.75	148.07	0.64	9.25	182.36	0.63

m.s.n.m	b	δ	m= 0.595 T=60°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	0.894	11.70	327.62	0.75	11.34	432.56	0.74
610	701.0	0.825	11.09	310.53	0.71	10.75	410.01	0.71
1220	650.0	0.770	10.59	296.57	0.68	10.26	391.58	0.67
1830	602.0	0.708	10.02	280.43	0.64	9.70	370.26	0.64
2440	559.0	0.658	9.54	267.07	0.61	9.24	352.62	0.61
3050	518.0	0.609	9.06	253.64	0.58	8.78	334.89	0.58
3660	480.0	0.565	8.62	241.27	0.55	8.35	318.56	0.55

m.s.n.m	b	δ	m= 0.595 T=60°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	0.894	10.97	544.50	0.72	10.54	577.78	0.66
610	701.0	0.825	10.39	516.11	0.68	9.99	547.65	0.63
1220	650.0	0.770	9.93	492.91	0.65	9.54	523.03	0.60
1830	602.0	0.708	9.39	466.09	0.62	9.02	494.57	0.57
2440	559.0	0.658	8.94	443.88	0.59	8.59	471.00	0.54
3050	518.0	0.609	8.49	421.56	0.56	8.16	447.32	0.51
3660	480.0	0.565	8.08	401.00	0.53	7.76	425.50	0.49

m = 0,5									
m.s.n.m	b	δ	T = -10° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	1.132	13.03	197.75	0.85	12.36	243.54	0.84	
610	701.0	1.044	12.34	187.37	0.81	11.71	230.75	0.79	
1220	650.0	0.970	11.75	178.41	0.77	11.15	219.71	0.76	
1830	602.0	0.897	11.16	169.34	0.73	10.58	208.55	0.72	
2440	559.0	0.833	10.62	161.18	0.69	10.07	198.51	0.68	
3050	518.0	0.772	10.09	153.22	0.66	9.58	188.69	0.65	
3660	480.0	0.715	9.59	145.58	0.63	9.10	179.20	0.62	

m = 0,5									
m.s.n.m	b	δ	T = -10° C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	760.0	1.132	11.51	322.22	0.74	11.15	425.44	0.73	
610	701.0	1.044	10.90	305.30	0.70	10.56	403.10	0.69	
1220	650.0	0.970	10.38	290.70	0.67	10.06	383.82	0.66	
1830	602.0	0.897	9.85	275.92	0.63	9.55	364.31	0.63	
2440	559.0	0.833	9.38	262.64	0.60	9.09	346.77	0.60	
3050	518.0	0.772	8.92	249.65	0.57	8.64	329.63	0.57	
3660	480.0	0.715	8.47	237.21	0.54	8.21	313.19	0.54	

m = 0,5									
m.s.n.m	b	δ	T = -10° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.132	10.79	535.54	0.71	10.36	568.27	0.65	
610	701.0	1.044	10.22	507.41	0.67	9.82	538.42	0.62	
1220	650.0	0.970	9.73	483.14	0.64	9.35	512.67	0.59	
1830	602.0	0.897	9.24	458.59	0.61	8.87	486.61	0.56	
2440	559.0	0.833	8.79	436.51	0.58	8.45	463.18	0.53	
3050	518.0	0.772	8.36	414.93	0.55	8.03	440.29	0.50	
3660	480.0	0.715	7.94	394.25	0.52	7.63	418.34	0.48	

m = 0.5								
m.s.m	b	f	T = -5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.111	12.87	195.30	0.84	12.21	240.51	0.83
610	70.10	1.025	12.19	185.09	0.80	11.57	227.94	0.78
1220	65.00	0.950	11.59	175.94	0.76	11.00	216.68	0.75
1830	60.20	0.880	11.01	167.19	0.72	10.45	205.90	0.71
2440	55.90	0.817	10.48	159.11	0.68	9.94	195.95	0.67
3050	51.80	0.757	9.96	151.23	0.65	9.45	186.24	0.64
3660	48.00	0.702	9.47	143.81	0.62	8.99	177.11	0.61

m = 0.5								
m.s.m	b	f	T = -5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.111	11.37	318.23	0.73	11.01	420.16	0.72
610	70.10	1.025	10.77	301.58	0.69	10.44	398.19	0.68
1220	65.00	0.950	10.24	286.69	0.66	9.92	378.52	0.65
1830	60.20	0.880	9.73	272.43	0.62	9.43	359.69	0.62
2440	55.90	0.817	9.26	259.26	0.59	8.97	342.31	0.59
3050	51.80	0.757	8.80	246.41	0.56	8.53	325.34	0.56
3660	48.00	0.702	8.37	234.32	0.54	8.11	309.39	0.53

m = 0.5								
m.s.m	b	f	T = -5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vc.	CS	Go.	Vo.	C.S.
0	76.00	1.111	10.65	528.90	0.70	10.23	561.22	0.64
610	70.10	1.025	10.09	501.24	0.66	9.70	531.87	0.61
1220	65.00	0.950	9.60	476.48	0.63	9.22	505.60	0.58
1830	60.20	0.880	9.12	452.78	0.60	8.76	480.45	0.55
2440	55.90	0.817	8.68	430.90	0.57	8.34	457.23	0.52
3050	51.80	0.757	8.25	409.54	0.54	7.92	434.56	0.50
3660	48.00	0.702	7.84	389.45	0.51	7.53	413.25	0.47

m = 0.5								
m.s.n.m	b	δ	T = 0° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	760.0	1.091	12.71	192.95	0.83	12.06	237.62	0.82
610	701.0	1.006	12.04	182.79	0.79	11.43	225.12	0.77
1220	650.0	0.930	11.43	173.47	0.75	10.84	213.63	0.74
1830	602.0	0.864	10.88	165.16	0.71	10.32	203.41	0.70
2440	559.0	0.802	10.35	157.16	0.68	9.82	193.55	0.67
3050	518.0	0.743	9.84	149.36	0.64	9.33	183.94	0.63
3660	480.0	0.689	9.36	142.03	0.61	8.88	174.91	0.60

m = 0.5								
m.s.n.m	b	δ	T = 0° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.091	11.23	314.39	0.72	10.88	415.11	0.71
610	701.0	1.006	10.64	297.85	0.68	10.31	393.26	0.68
1220	650.0	0.930	10.09	282.65	0.65	9.78	373.19	0.64
1830	602.0	0.864	9.61	269.11	0.62	9.31	355.32	0.61
2440	559.0	0.802	9.15	256.08	0.59	8.86	338.11	0.58
3050	518.0	0.743	8.69	243.36	0.56	8.42	321.32	0.55
3660	480.0	0.689	8.26	231.42	0.53	8.01	305.56	0.52

m = 0.5								
m.s.n.m	b	δ	T = 0° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1530.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.091	10.52	522.53	0.69	10.11	554.46	0.64
610	701.0	1.006	9.97	495.03	0.65	9.58	525.28	0.60
1220	650.0	0.930	9.46	469.77	0.62	9.09	498.48	0.57
1830	602.0	0.864	9.01	447.27	0.59	8.65	474.70	0.54
2440	559.0	0.802	8.57	425.61	0.56	8.23	451.62	0.52
3050	518.0	0.743	8.15	404.47	0.53	7.83	429.19	0.49
3660	480.0	0.689	7.75	384.63	0.51	7.44	408.13	0.47

m= 0.5

m.s.n.m	b	δ	T= 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	760.0	1.071	12.56	190.58	0.82	11.91	234.71	0.81
610	701.0	0.988	11.90	180.61	0.78	11.29	222.42	0.77
1220	650.0	0.920	11.35	172.22	0.74	10.76	212.10	0.73
1830	602.0	0.848	10.75	163.11	0.70	10.19	200.88	0.69
2440	559.0	0.788	10.23	155.33	0.67	9.71	191.29	0.66
3050	518.0	0.730	9.72	147.61	0.63	9.23	181.78	0.62
3660	480.0	0.676	9.24	140.24	0.60	8.76	172.71	0.59

m= 0.5

m.s.n.m	b	δ	T= 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.071	11.09	310.54	0.71	10.75	410.02	0.71
610	701.0	0.988	10.51	294.28	0.67	10.18	388.55	0.67
1220	650.0	0.920	10.02	280.62	0.64	9.71	370.51	0.64
1830	602.0	0.848	9.49	265.78	0.61	9.20	350.92	0.60
2440	559.0	0.788	9.04	253.09	0.58	8.76	334.16	0.57
3050	518.0	0.730	8.59	240.51	0.55	8.32	317.56	0.55
3660	480.0	0.676	8.16	228.50	0.52	7.91	301.70	0.52

m= 0.5

m.s.n.m	b	δ	T= 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.071	10.39	516.12	0.68	9.99	547.66	0.63
610	701.0	0.988	9.85	489.10	0.65	9.46	518.99	0.59
1220	650.0	0.920	9.39	466.40	0.62	9.02	494.90	0.57
1830	602.0	0.848	8.90	441.73	0.58	8.55	468.73	0.54
2440	559.0	0.788	8.47	420.64	0.56	8.14	446.35	0.51
3050	518.0	0.730	8.05	399.74	0.53	7.73	424.17	0.48
3660	480.0	0.676	7.65	379.78	0.50	7.35	402.98	0.46

m = 0.5									
m.s.n.m	b	f	T = 10° C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo	C.S.	
0	76.00	1.052	12.41	188.32	0.81	11.77	231.93	0.80	
610	70.10	0.970	11.75	178.41	0.77	11.15	219.17	0.76	
1220	65.00	0.900	11.18	169.72	0.73	10.61	209.01	0.72	
1830	60.20	0.833	10.62	161.18	0.69	10.07	198.51	0.68	
2440	55.90	0.774	9.85	149.49	0.64	9.34	184.10	0.63	
3050	51.80	0.717	9.61	145.85	0.63	9.12	179.62	0.62	
3660	48.00	0.664	9.13	138.57	0.60	8.66	170.66	0.59	

m = 0.5									
m.s.n.m	b	f	T = 10° C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	76.00	1.052	10.96	306.86	0.70	10.62	405.15	0.70	
610	70.10	0.970	10.38	290.70	0.67	10.06	383.82	0.66	
1220	65.00	0.900	9.88	276.54	0.63	9.57	365.12	0.63	
1830	60.20	0.833	9.38	262.64	0.60	9.09	346.77	0.60	
2440	55.90	0.774	8.70	243.58	0.56	8.43	321.61	0.55	
3050	51.80	0.717	8.49	237.65	0.54	8.22	313.78	0.54	
3660	48.00	0.664	8.06	225.79	0.52	7.81	298.12	0.51	

m = 0.5									
m.s.n.m	b	f	T = 10° C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Ve	C.S.	
0	76.00	1.052	10.27	510.00	0.67	9.87	541.17	0.62	
610	70.10	0.970	9.73	483.14	0.64	9.35	512.67	0.59	
1220	65.00	0.900	9.26	459.61	0.61	8.89	487.70	0.56	
1830	60.20	0.833	8.79	436.51	0.58	8.45	463.18	0.53	
2440	55.90	0.774	8.15	404.84	0.53	7.83	429.57	0.49	
3050	51.80	0.717	7.95	394.98	0.52	7.64	419.12	0.48	
3660	48.00	0.664	7.56	375.27	0.49	7.26	398.20	0.45	

m = 0.5								
m.s.n.m	b	δ	T = 15 °C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.034	12.27	186.17	0.80	11.64	229.27	0.79
610	70.10	0.954	11.62	176.44	0.76	11.02	217.29	0.75
1220	65.00	0.880	11.01	167.19	0.72	10.45	205.90	0.71
1830	60.20	0.819	10.50	159.37	0.69	9.96	196.27	0.67
2440	55.90	0.760	9.99	151.62	0.65	9.48	186.73	0.64
3050	51.80	0.705	9.50	144.22	0.62	9.01	177.61	0.61
3660	48.00	0.653	9.03	137.04	0.59	8.56	168.77	0.58

m = 0.5								
m.s.n.m	b	δ	T = 15 °C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.034	10.83	303.35	0.70	10.50	400.52	0.69
610	70.10	0.954	10.27	287.49	0.66	9.95	379.58	0.65
1220	65.00	0.880	9.73	272.43	0.62	9.43	359.69	0.62
1830	60.20	0.819	9.27	259.69	0.59	8.99	342.87	0.59
2440	55.90	0.760	8.82	247.06	0.57	8.55	326.20	0.56
3050	51.90	0.705	8.39	234.99	0.54	8.13	310.27	0.53
3660	48.00	0.653	7.97	223.29	0.51	7.73	294.82	0.51

m = 0.5								
m.s.n.m	b	δ	T = 15 °C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.034	10.15	504.17	0.67	9.76	534.98	0.61
610	70.10	0.954	9.62	477.82	0.63	9.24	507.02	0.58
1220	65.00	0.880	9.12	452.78	0.60	8.76	480.45	0.55
1830	60.20	0.819	8.69	431.60	0.57	8.35	457.98	0.52
2440	55.90	0.760	8.27	410.62	0.54	7.94	435.71	0.50
3050	51.90	0.705	7.86	390.56	0.52	7.56	414.43	0.47
3660	48.00	0.653	7.47	371.11	0.49	7.18	393.79	0.45

m = 0,5									
m.s.n.m	b	δ	T = 20°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	1.016	12.12	184.00	0.79	11.50	226.61	0.78	
610	701.0	0.937	11.49	174.34	0.75	10.90	214.70	0.74	
1220	650.0	0.870	10.93	165.92	0.71	10.37	204.34	0.70	
1830	602.0	0.805	10.38	157.55	0.68	9.85	194.00	0.67	
2440	559.0	0.747	9.87	149.89	0.64	9.37	184.65	0.63	
3050	518.0	0.693	9.39	142.58	0.61	8.91	175.50	0.60	
3660	480.0	0.642	8.93	135.49	0.58	8.47	166.87	0.57	

m = 0,5									
m.s.n.m	b	δ	T = 20°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.016	10.71	299.82	0.69	10.37	395.86	0.68	
610	701.0	0.937	10.14	284.07	0.65	9.83	375.06	0.64	
1220	650.0	0.870	9.66	270.36	0.62	9.35	356.96	0.61	
1830	602.0	0.805	9.17	256.72	0.59	8.88	338.95	0.58	
2440	559.0	0.747	8.72	244.23	0.56	8.45	322.47	0.55	
3050	518.0	0.693	8.30	232.32	0.53	8.04	306.74	0.53	
3660	480.0	0.642	7.88	220.78	0.50	7.64	291.50	0.50	

m = 0,5									
m.s.n.m	b	δ	T = 20°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.016	10.04	498.30	0.66	9.64	528.75	0.61	
610	701.0	0.937	9.51	472.12	0.62	9.13	500.97	0.57	
1220	650.0	0.870	9.05	449.34	0.59	8.69	476.80	0.55	
1830	602.0	0.805	8.59	426.67	0.56	8.25	452.74	0.52	
2440	559.0	0.747	8.17	405.92	0.54	7.85	430.73	0.49	
3050	518.0	0.693	7.78	386.12	0.51	7.47	409.71	0.47	
3660	480.0	0.642	7.39	366.93	0.48	7.10	389.36	0.44	

m=0.5								
m.s.n.m	b	f	T=25°C					
			400KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.000	12.00	182.07	0.78	11.38	224.23	0.77
610	70.10	0.922	11.36	172.47	0.74	10.78	212.40	0.73
1220	65.00	0.860	10.85	164.65	0.71	10.29	202.77	0.70
1830	60.20	0.791	10.26	155.72	0.67	9.73	191.78	0.66
2440	55.90	0.735	9.77	148.28	0.64	9.27	182.61	0.63
3050	51.80	0.681	9.28	140.93	0.61	8.81	173.56	0.60
3660	48.00	0.631	8.82	133.94	0.57	8.37	164.95	0.57

m= 0.5								
m.s.n.m	b	f	T=25°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	76.00	1.000	10.60	296.66	0.68	10.27	391.69	0.67
610	70.10	0.922	10.04	281.03	0.64	9.72	371.05	0.64
1220	65.00	0.860	9.58	268.28	0.61	9.28	354.22	0.61
1830	60.20	0.791	9.06	253.73	0.58	8.78	335.01	0.58
2440	55.90	0.735	8.63	241.61	0.55	8.36	319.01	0.55
3050	51.80	0.681	8.20	229.63	0.53	7.94	303.19	0.52
3660	48.00	0.631	7.79	218.25	0.50	7.55	288.16	0.49

m= 0.5								
m.s.n.m	b	f	T=25°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.000	9.93	493.06	0.65	9.54	523.19	0.60
610	70.10	0.922	9.41	467.07	0.62	9.04	495.61	0.57
1220	65.00	0.860	8.98	445.89	0.59	8.63	473.14	0.54
1830	60.20	0.791	8.49	421.71	0.56	8.16	447.48	0.51
2440	55.90	0.735	8.09	401.56	0.53	7.77	426.10	0.49
3050	51.80	0.681	7.69	381.65	0.50	7.38	404.97	0.46
3660	48.00	0.631	7.30	362.73	0.48	7.02	384.90	0.44

m.s.n.m	b	δ	m= 0.5 T= 30°C 400 KV. ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	7600	0.983	11.86	180.00	0.77	11.25	221.67	0.76
610	7010	0.906	11.23	170.47	0.73	10.65	209.94	0.72
1220	6500	0.840	10.68	162.09	0.70	10.13	199.62	0.69
1830	6020	0.778	10.15	154.01	0.66	9.63	189.63	0.65
2440	5590	0.723	9.66	146.66	0.63	9.17	180.62	0.62
3050	5180	0.670	9.18	139.40	0.60	8.71	171.68	0.59
3660	4800	0.620	8.72	132.38	0.57	8.27	163.03	0.56

m.s.n.m	b	δ	m= 0.5 T= 30°C 750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	7600	0.983	10.47	293.29	0.67	10.15	387.24	0.67
610	7010	0.906	9.92	277.77	0.64	9.61	366.74	0.63
1220	6500	0.840	9.43	264.11	0.60	9.14	348.71	0.60
1830	6020	0.778	8.96	250.95	0.57	8.68	331.33	0.57
2440	5590	0.723	8.53	238.97	0.55	8.27	315.53	0.54
3050	5180	0.670	8.11	227.15	0.52	7.86	299.91	0.51
3660	4800	0.620	7.70	215.70	0.49	7.46	284.80	0.49

m.s.n.m	b	δ	m= 0.5 T= 30°C 1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	7600	0.983	9.82	487.45	0.64	9.43	517.24	0.59
610	7010	0.906	9.30	461.65	0.61	8.93	489.86	0.56
1220	6500	0.840	8.84	438.95	0.58	8.49	465.77	0.53
1830	6020	0.778	8.40	417.08	0.55	8.07	442.56	0.51
2440	5590	0.723	8.00	397.18	0.52	7.68	421.45	0.48
3050	5180	0.670	7.60	377.53	0.50	7.30	400.60	0.46
3660	4800	0.620	7.22	358.50	0.47	6.94	380.41	0.43

m = 0.5									
m.s.n.m	b	δ	T = 35 °C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	0.967	11.73	178.04	0.77	11.13	219.16	0.75	
610	701.0	0.892	11.11	168.71	0.73	10.54	207.77	0.71	
1220	650.0	0.830	10.59	160.80	0.69	10.05	198.03	0.68	
1830	602.0	0.766	10.04	152.42	0.66	9.53	187.71	0.65	
2440	559.0	0.711	9.55	145.04	0.62	9.06	178.62	0.61	
3050	518.0	0.659	9.08	137.87	0.59	8.62	169.80	0.58	
3660	480.0	0.610	8.63	130.95	0.56	8.18	161.27	0.55	

m = 0.5									
m.s.n.m	b	δ	T = 35 °C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	760.0	0.967	10.36	290.10	0.66	10.04	383.02	0.66	
610	701.0	0.892	9.82	274.90	0.63	9.51	362.95	0.62	
1220	650.0	0.830	9.36	262.01	0.60	9.07	345.94	0.59	
1830	602.0	0.766	8.87	248.32	0.57	8.59	327.92	0.56	
2440	559.0	0.711	8.44	236.32	0.54	8.18	312.03	0.54	
3050	518.0	0.659	8.02	224.66	0.51	7.77	296.62	0.51	
3660	480.0	0.610	7.62	213.38	0.49	7.38	281.73	0.48	

m = 0.5									
m.s.n.m	b	δ	T = 35 °C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	0.967	9.71	482.15	0.64	9.33	511.61	0.59	
610	701.0	0.892	9.20	456.88	0.60	8.84	484.80	0.55	
1220	650.0	0.830	8.77	435.46	0.58	8.43	462.07	0.53	
1830	602.0	0.766	8.31	412.78	0.54	7.99	438.00	0.50	
2440	559.0	0.711	7.91	392.77	0.52	7.60	416.78	0.48	
3050	518.0	0.659	7.52	373.38	0.49	7.22	396.20	0.45	
3660	480.0	0.610	7.14	354.64	0.47	6.86	376.31	0.43	

m = 0.5									
m.s.n.m	b	δ	T = 40 °C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C S	Go	Vo	C.S.	
0	7600	0.951	11.60	176.07	0.76	11.00	216.83	0.75	
610	7010	0.877	10.99	166.81	0.72	10.43	205.44	0.71	
1220	6500	0.810	10.42	158.20	0.68	9.89	194.83	0.67	
1830	6020	0.753	9.93	150.69	0.65	9.42	185.58	0.64	
2440	5590	0.700	9.46	143.54	0.62	8.97	176.77	0.61	
3050	5180	0.648	8.98	136.34	0.59	8.52	167.90	0.58	
3660	4800	0.601	8.54	129.66	0.56	8.10	159.68	0.55	

m = 0.5									
m.s.n.m	b	δ	T = 40 °C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C S	Go.	Vo.	C.S.	
0	7600	0.951	10.25	286.89	0.66	9.93	378.79	0.65	
610	7010	0.877	9.71	271.81	0.62	9.40	358.87	0.62	
1220	6500	0.810	9.21	257.78	0.59	8.92	340.36	0.58	
1830	6020	0.753	8.77	245.54	0.56	8.50	324.20	0.56	
2440	5590	0.700	8.35	233.88	0.54	8.09	308.80	0.53	
3050	5180	0.648	7.93	222.15	0.51	7.69	293.31	0.50	
3660	4800	0.601	7.54	211.27	0.48	7.31	278.95	0.48	

m = 0.5									
m.s.n.m	b	δ	T = 40 °C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	7600	0.951	9.60	476.81	0.63	9.23	505.95	0.58	
610	7010	0.877	9.10	451.75	0.60	8.74	479.35	0.55	
1220	6500	0.810	8.63	428.44	0.57	8.29	454.62	0.52	
1830	6020	0.753	8.22	408.09	0.54	7.90	433.03	0.50	
2440	5590	0.700	7.83	388.71	0.51	7.52	412.47	0.47	
3050	5180	0.648	7.43	369.22	0.49	7.14	391.78	0.45	
3660	4800	0.601	7.07	351.14	0.46	6.79	372.60	0.43	

m = 0.5								
m.s.n.m	b	δ	T = 45°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.936	11.48	174.21	0.75	10.89	214.55	0.74
610	70.10	0.864	10.88	165.16	0.71	10.32	203.40	0.70
1220	65.00	0.800	10.34	156.90	0.67	9.81	193.23	0.66
1830	60.20	0.742	9.83	149.22	0.64	9.33	183.77	0.63
2440	55.90	0.689	9.36	142.03	0.61	8.88	174.91	0.60
3050	51.80	0.638	8.89	134.93	0.58	8.43	166.17	0.57
3660	48.00	0.591	8.45	128.22	0.55	8.01	157.91	0.54

m = 0.5								
m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo.	C.S.
0	76.00	0.936	10.14	283.86	0.65	9.82	374.79	0.64
610	70.10	0.864	9.61	269.11	0.62	9.31	355.32	0.61
1220	65.00	0.800	9.13	255.65	0.59	8.85	337.55	0.58
1830	60.20	0.742	8.68	243.14	0.56	8.41	321.03	0.55
2440	55.90	0.689	8.26	231.42	0.53	8.01	305.56	0.52
3050	51.90	0.638	7.85	219.86	0.50	7.61	290.28	0.50
3660	48.00	0.591	7.46	208.92	0.48	7.23	275.85	0.47

m = 0.5								
m.s.n.m	b	δ	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	0.936	9.50	471.79	0.62	9.13	500.62	0.57
610	70.10	0.864	9.01	447.27	0.59	8.65	474.60	0.54
1220	65.00	0.800	8.56	424.90	0.56	8.22	450.87	0.52
1830	60.20	0.742	8.14	404.11	0.53	7.82	428.80	0.49
2440	55.90	0.689	7.75	384.63	0.51	7.44	408.13	0.47
3050	51.80	0.638	7.36	365.41	0.48	7.07	387.74	0.44
3660	48.00	0.591	6.99	347.23	0.46	6.72	368.45	0.42

m = 0.5									
m.s.n.m	b	δ	T = 50°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	0.922	11.36	172.47	0.74	10.78	212.40	0.73	
610	701.0	0.850	10.76	163.37	0.70	10.21	201.20	0.69	
1220	650.0	0.790	10.25	155.59	0.67	9.72	191.61	0.66	
1830	602.0	0.730	9.72	147.68	0.63	9.23	181.78	0.62	
2440	559.0	0.678	9.26	140.51	0.60	8.78	173.05	0.59	
3050	518.0	0.628	8.80	133.52	0.57	8.34	164.43	0.56	
3660	480.0	0.582	8.36	126.91	0.54	7.93	156.30	0.54	

m = 0.5									
m.s.n.m	b	δ	T = 50°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	760.0	0.922	10.04	281.03	0.64	9.72	371.05	0.64	
610	701.0	0.850	9.51	266.20	0.61	9.21	351.47	0.60	
1220	650.0	0.790	9.05	253.52	0.58	8.77	334.73	0.57	
1830	602.0	0.730	8.59	240.51	0.55	8.32	317.56	0.55	
2440	559.0	0.678	8.18	228.95	0.52	7.92	302.29	0.52	
3050	518.0	0.628	7.77	217.55	0.50	7.53	287.24	0.49	
3660	480.0	0.582	7.38	206.80	0.47	7.15	273.04	0.47	

m = 0.5									
m.s.n.m	b	δ	T = 50						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go	Vo.	C.S.	
0	760.0	0.922	9.41	467.07	0.62	9.04	495.61	0.57	
610	701.0	0.850	8.91	442.43	0.58	8.56	469.46	0.54	
1220	650.0	0.790	8.49	421.35	0.56	8.15	447.10	0.51	
1830	602.0	0.730	8.05	399.74	0.53	7.73	424.17	0.48	
2440	559.0	0.678	7.66	380.52	0.50	7.36	403.78	0.46	
3050	518.0	0.628	7.28	361.58	0.48	6.99	383.67	0.44	
3660	480.0	0.582	6.92	343.70	0.45	6.65	364.70	0.42	

m= 0.5

m.s.n.m	b	δ	T = 55°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	CS	Go	Vo	C.S.
0	7600	0.908	11.25	170.72	0.73	10.67	210.25	0.72
610	7010	0.837	10.65	161.70	0.70	10.11	199.14	0.68
1220	6500	0.780	10.16	154.27	0.66	9.64	189.99	0.65
1830	6020	0.719	9.63	146.12	0.63	9.13	179.95	0.62
2440	5590	0.668	9.16	139.13	0.60	8.69	171.34	0.59
3050	5180	0.619	8.71	132.24	0.57	8.26	162.86	0.56
3660	4800	0.573	8.27	125.60	0.54	7.85	154.68	0.53

m= 0.5

m.s.n.m	b	δ	T = 55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Co.	Vo.	C.S.
0	7600	0.908	9.93	278.17	0.64	9.63	367.28	0.63
610	7010	0.837	9.41	263.48	0.60	9.12	347.88	0.60
1220	6500	0.780	8.98	251.38	0.58	8.70	331.90	0.57
1830	6020	0.719	8.50	238.09	0.54	8.24	314.36	0.54
2440	5590	0.668	8.10	226.70	0.52	7.84	299.31	0.51
3050	5190	0.619	7.69	215.47	0.49	7.45	284.49	0.49
3660	4800	0.573	7.31	204.66	0.47	7.08	270.22	0.46

m= 0.5

m.s.n.m	b	δ	T = 55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	7600	0.908	9.31	462.33	0.61	8.95	490.58	0.56
610	7010	0.837	8.82	437.90	0.58	8.47	464.66	0.53
1220	6500	0.780	8.41	417.79	0.55	8.08	443.32	0.51
1830	6020	0.719	7.97	395.71	0.52	7.66	419.90	0.48
2440	5590	0.668	7.59	376.77	0.50	7.29	399.80	0.46
3050	5180	0.619	7.21	358.12	0.47	6.93	380.00	0.43
3660	4800	0.573	6.85	340.15	0.45	6.58	360.93	0.41

m = 0.5									
m.s.n.m	b	δ	T = 60°C						
			400 KV. ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	7600	0.894	11.13	168.96	0.73	10.56	208.08	0.72
610	7010	0.825	10.55	160.15	0.69	10.01	197.23	0.68
1220	6500	0.770	10.08	152.95	0.66	9.56	188.37	0.65
1830	6020	0.708	9.53	144.63	0.62	9.04	178.11	0.61
2440	5590	0.658	9.07	137.74	0.59	8.61	169.63	0.58
3050	5180	0.609	8.62	130.81	0.56	8.17	161.10	0.55
3660	4800	0.565	8.20	124.43	0.53	7.78	153.24	0.53

m = 0.5								
m.s.n.m	b	δ	T = 60°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	7600	0.894	9.83	275.31	0.63	9.53	363.50	0.62
610	7010	0.825	9.32	260.95	0.60	9.03	344.54	0.59
1220	6500	0.770	8.90	249.22	0.57	8.62	329.06	0.56
1830	6020	0.708	8.42	235.06	0.54	8.15	311.15	0.53
2440	5590	0.658	8.01	224.43	0.51	7.76	296.32	0.51
3050	5190	0.609	7.61	213.14	0.49	7.37	281.42	0.48
3660	4800	0.565	7.24	202.75	0.46	7.01	267.70	0.46

m = 0.5								
m.s.n.m	b	δ	T = 60°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	7600	0.894	9.21	457.57	0.60	8.85	485.53	0.56
610	7010	0.825	8.73	433.71	0.57	8.39	460.21	0.53
1220	6500	0.770	8.34	414.21	0.55	8.01	439.52	0.50
1830	6020	0.708	7.89	391.67	0.52	7.58	415.60	0.47
2440	5590	0.658	7.51	373.00	0.49	7.22	395.80	0.45
3050	5190	0.609	7.13	354.25	0.47	6.85	375.90	0.43
3660	4800	0.565	6.78	336.97	0.44	6.52	357.57	0.41

m.s.n.m	b	δ	m= 0.45 T= -10°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV ACSR/AW 1113.5 Go.	Vo.	C.S.
0	760.0	1.132	11.73	177.98	0.77	11.12	219.19	0.75
610	701.0	1.044	11.11	168.63	0.73	10.54	207.67	0.71
1220	650.0	0.970	10.58	160.56	0.69	10.04	197.74	0.68
1830	602.0	0.897	10.04	152.40	0.65	9.53	187.69	0.65
2440	559.0	0.833	9.56	145.07	0.62	9.07	178.65	0.61
3050	518.0	0.772	9.08	137.89	0.59	8.62	169.82	0.58
3660	480.0	0.715	8.63	131.02	0.56	8.19	161.36	0.55

m.s.n.m	b	δ	m= 0.45 T= -10°C 750 KV ACSR/AW 1351.5 Go.	Vo.	C.S.	1000 KV ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	1.132	10.36	290.00	0.66	10.03	382.90	0.60
610	701.0	1.044	9.81	274.77	0.63	9.51	362.79	0.62
1220	650.0	0.970	9.34	261.63	0.60	9.05	345.43	0.59
1830	602.0	0.897	8.87	248.33	0.57	8.59	327.88	0.56
2440	559.0	0.833	8.44	236.37	0.54	8.18	312.09	0.54
3050	518.0	0.772	8.02	224.69	0.51	7.77	296.66	0.51
3660	480.0	0.715	7.62	213.49	0.49	7.39	281.88	0.48

m.s.n.m	b	δ	m= 0.45 T= -10°C 1300 KV ACSR/AW 1351.5 Go.	Vo.	C.S.	1500 KV ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	1.132	9.71	481.99	0.64	9.33	511.44	0.59
610	701.0	1.044	9.20	456.67	0.60	8.84	484.58	0.55
1220	650.0	0.970	8.76	434.83	0.57	8.41	461.40	0.53
1830	602.0	0.897	8.31	412.73	0.54	7.99	437.95	0.50
2440	559.0	0.833	7.91	392.86	0.52	7.60	416.86	0.48
3050	518.0	0.772	7.52	373.44	0.49	7.22	396.26	0.45
3660	480.0	0.715	7.14	353.82	0.47	6.86	376.50	0.43

m=0.45									
m.s.n.m	a	f	T=-5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	7600	1.111	11.58	175.77	0.76	10.99	216.47	0.74	
610	7010	1.025	10.97	166.58	0.72	10.41	205.15	0.71	
1220	6500	0.950	10.43	158.35	0.68	9.90	195.01	0.67	
1830	6020	0.880	9.91	150.47	0.65	9.40	185.31	0.64	
2440	5590	0.817	9.43	143.20	0.62	8.95	176.36	0.61	
3050	5180	0.757	8.97	136.10	0.58	8.51	167.62	0.58	
3660	4800	0.702	8.53	129.43	0.56	8.09	159.40	0.55	

m= 0.45									
m.s.n.m	b	f	T=-5°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	7600	1.111	10.23	286.40	0.66	9.91	378.15	0.65	
610	7010	1.025	9.69	271.43	0.62	9.39	358.37	0.62	
1220	6500	0.950	9.21	258.02	0.59	8.93	340.67	0.59	
1830	6020	0.880	8.76	245.18	0.56	8.48	323.72	0.56	
2440	5590	0.817	8.33	233.34	0.53	8.07	308.08	0.53	
3050	5180	0.757	7.92	221.77	0.51	7.67	292.81	0.50	
3660	4800	0.702	7.53	210.89	0.48	7.30	278.45	0.48	

m= 0.45									
m.s.n.m	b	f	T=-5°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo.	C.S.	
0	7600	1.111	9.59	476.01	0.63	9.21	505.10	0.58	
610	7010	1.025	9.08	451.11	0.60	8.73	478.68	0.55	
1220	6500	0.950	8.64	428.83	0.57	8.30	455.04	0.52	
1830	6020	0.880	8.21	407.50	0.54	7.88	432.40	0.49	
2440	5590	0.817	7.81	387.81	0.51	7.50	411.51	0.47	
3050	5180	0.757	7.42	368.58	0.49	7.13	391.11	0.45	
3660	4800	0.702	7.06	350.51	0.46	6.78	371.93	0.42	

m = 0.45								
m.s.n.m	b	δ	T = 0°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	1.091	11.44	173.35	0.75	10.85	213.86	0.74
610	70.10	1.006	10.84	164.51	0.71	10.28	202.60	0.70
1220	65.00	0.930	10.28	156.12	0.67	9.76	192.27	0.66
1830	60.20	0.864	9.79	148.64	0.64	9.29	183.06	0.63
2440	55.90	0.802	9.32	141.44	0.61	8.84	174.19	0.60
3050	51.80	0.743	8.85	134.42	0.58	8.40	165.54	0.57
3660	48.00	0.689	8.42	127.83	0.55	7.99	157.42	0.54

m = 0.45								
m.s.n.m	b	δ	T = 0°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	76.00	1.091	10.11	282.96	0.65	9.79	373.60	0.64
610	70.10	1.006	9.57	268.06	0.61	9.27	353.93	0.61
1220	65.00	0.930	9.08	254.38	0.58	8.80	335.87	0.58
1830	60.20	0.864	8.65	242.20	0.55	8.38	319.79	0.55
2440	55.90	0.802	8.23	230.47	0.53	7.97	304.30	0.52
3050	51.80	0.743	7.82	219.03	0.50	7.58	289.19	0.50
3660	48.00	0.689	7.44	208.28	0.48	7.21	275.00	0.47

m = 0.45								
m.s.n.m	b	δ	T = 0°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.091	9.47	470.28	0.62	9.10	499.02	0.57
610	70.10	1.006	8.97	445,52	0.59	8.62	472.75	0.54
1220	65.00	0.930	8.51	422.79	0.56	8.18	448.63	0.51
1830	60.20	0.864	8.11	402.54	0.53	7.79	427.14	0.49
2440	55.90	0.802	7.71	383.05	0.51	7.41	406.46	0.46
3050	51.80	0.743	7.33	364.03	0.48	7.04	386.27	0.44
3660	48.00	0.689	6.97	346,17	0.46	6.70	367.32	0.42

m = 0.45								
m.s.n.m	b	δ	T = 5°C					
			400 KV	ACSR/AW 1272.0		500 KV	ACSR/AW 1113.5	
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	1.071	11.30	171.53	0.74	10.72	211.24	0.73
610	70.10	0.988	10.71	162.55	0.70	10.16	200.18	0.69
1220	65.00	0.920	10.21	155.00	0.67	9.69	190.89	0.66
1830	60.20	0.848	9.67	146.80	0.63	9.17	180.79	0.62
2440	55.90	0.788	9.21	139.79	0.60	8.74	172.16	0.59
3050	51.80	0.730	8.75	132.85	0.57	8.30	163.61	0.56
3660	48.00	0.676	8.31	126.21	0.54	7.89	155.44	0.53

m = 0.45								
m.s.n.m	b	δ	T = 5°C					
			750 KV	ACSR/AW 1351.5		1000KV	ACSR/AW 1272.0	
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.071	9.98	279.49	0.64	9.67	369.02	0.63
610	70.10	0.988	9.46	264.85	0.61	9.16	349.70	0.60
1220	65.00	0.920	9.02	252.56	0.58	8.74	333.46	0.57
1830	60.20	0.848	8.54	239.20	0.55	8.28	315.83	0.54
2440	55.90	0.788	8.13	227.78	0.52	7.88	300.75	0.52
3050	51.80	0.730	7.73	216.46	0.49	7.49	285.80	0.49
3660	48.00	0.676	7.34	205.65	0.47	7.11	271.53	0.47

m = 0.45								
m.s.n.m	b	δ	T = 5°C					
			1300 KV	ACSR/AW 1351.5		1500KV	ACSR/AW 1590.0	
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.071	9.35	464.51	0.61	8.99	492.90	0.56
610	70.10	0.988	8.86	440.19	0.58	8.52	467.09	0.53
1220	65.00	0.920	8.45	419.76	0.55	8.12	445.41	0.51
1830	60.20	0.848	8.01	397.56	0.52	7.69	421.85	0.48
2440	55.90	0.788	7.62	378.58	0.50	7.32	407.71	0.46
3050	51.80	0.730	7.24	359.77	0.47	6.96	381.75	0.44
3660	48.00	0.676	6.88	341.80	0.45	6.61	362.69	0.41

m = 0.45								
m.s.n.m	b.	δ	T = 10 °C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.052	11.17	169.49	0.73	10.59	208.73	0.72
610	70.10	0.970	10.58	160.56	0.69	10.04	197.74	0.68
1220	65.00	0.900	10.06	152.74	0.66	9.55	188.11	0.65
1830	60.20	0.833	9.56	145.07	0.62	9.07	178.65	0.61
2440	55.90	0.774	8.86	134.54	0.58	8.41	165.69	0.57
3050	51.80	0.717	8.65	131.27	0.56	8.20	161.66	0.56
3660	48.00	0.664	8.21	124.71	0.54	7.79	153.59	0.53

m = 0.45								
m.s.n.m	b	δ	T = 10 °C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	76.00	1.052	9.86	276.17	0.63	9.56	364.64	0.63
610	70.10	0.970	9.34	261.63	0.60	9.05	345.43	0.59
1220	65.00	0.900	8.89	248.88	0.57	8.61	328.61	0.56
1830	60.20	0.833	8.44	236.37	0.54	8.18	312.09	0.54
2440	55.90	0.774	7.83	219.22	0.50	7.58	289.45	0.50
3050	51.80	0.717	7.64	213.89	0.49	7.40	282.40	0.48
3660	48.00	0.664	7.26	203.21	0.46	7.03	268.31	0.46

m = 0.45								
m.s.n.m	b	δ	T = 10 °C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	1.052	9.24	459.00	0.61	8.88	487.05	0.56
610	70.10	0.970	8.76	434.83	0.57	8.41	461.40	0.53
1220	65.00	0.900	8.33	413.65	0.55	8.00	438.93	0.50
1830	60.20	0.833	7.91	392.86	0.52	7.60	416.86	0.48
2440	55.90	0.774	7.34	364.35	0.48	7.05	386.62	0.44
3050	51.80	0.717	7.16	355.48	0.47	6.88	377.21	0.43
3660	48.00	0.664	6.80	337.74	0.44	6.53	358.38	0.41

m = 0.45								
m.s.n.m	b	δ	T = 15°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	76.00	1.034	11.04	167.55	0.72	10.47	206.35	0.71
610	70.10	0.954	10.46	158.79	0.68	9.92	195.56	0.67
1220	65.00	0.880	9.91	150.47	0.65	9.40	185.31	0.64
1830	60.20	0.819	9.45	143.44	0.62	8.96	176.65	0.61
2440	55.90	0.760	8.99	136.46	0.59	8.53	168.06	0.58
3050	51.80	0.705	8.55	129.80	0.56	8.11	159.85	0.55
3660	48.00	0.653	8.12	123.33	0.53	7.71	151.89	0.52

m = 0.45								
m.s.n.m	b	δ	T = 15°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	76.00	1.034	9.75	273.01	0.63	9.45	360.47	0.62
610	70.10	0.954	9.24	258.74	0.59	8.95	341.63	0.59
1220	65.00	0.880	8.76	245.18	0.56	8.48	323.72	0.56
1830	60.20	0.819	8.35	233.72	0.53	8.09	308.59	0.53
2440	55.90	0.760	7.94	222.35	0.51	7.69	293.58	0.50
3050	51.80	0.705	7.55	211.49	0.48	7.32	279.24	0.48
3660	48.00	0.653	7.18	200.96	0.46	6.95	265.34	0.45

m = 0.45								
m.s.n.m	b	δ	T = 15°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.034	9.14	453.75	0.60	8.78	481.48	0.55
610	70.10	0.954	8.66	430.03	0.57	8.32	456.31	0.52
1220	65.00	0.880	8.21	407.50	0.54	7.88	432.40	0.49
1830	60.20	0.819	7.82	388.44	0.51	7.51	412.18	0.47
2440	55.90	0.760	7.44	369.56	0.49	7.15	392.14	0.45
3050	51.80	0.705	7.08	351.51	0.46	6.80	372.99	0.43
3660	48.00	0.653	6.73	334.00	0.44	6.46	354.41	0.40

m.s.n.m	b	δ	m= 0.45 T= 20°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	76.00	1.016	10.91	165.60	0.71	10.35	203.94	0.70
610	70.10	0.937	10.34	156.90	0.67	9.81	193.23	0.66
1220	65.00	0.870	9.84	149.33	0.64	9.33	183.91	0.63
1830	60.20	0.805	9.34	141.80	0.61	8.86	174.63	0.60
2440	55.90	0.747	8.89	134.90	0.58	8.43	166.14	0.57
3050	51.80	0.693	8.45	128.32	0.55	8.02	158.03	0.54
3660	48.00	0.642	8.03	121.94	0.52	7.62	150.18	0.52

m.s.n.m	b	δ	m= 0.45 T= 20°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo	C.S.
0	76.00	1.016	9.64	269.83	0.62	9.34	356.27	0.61
610	70.10	0.937	9.13	255.66	0.59	8.85	337.56	0.58
1220	65.00	0.870	8.69	243.32	0.56	8.42	321.27	0.55
1830	60.20	0.805	8.25	231.05	0.53	7.99	305.06	0.52
2440	55.90	0.747	7.85	219.81	0.50	7.60	290.22	0.50
3050	51.80	0.693	7.47	209.09	0.48	7.23	276.06	0.47
3660	48.00	0.642	7.09	198.70	0.45	6.87	262.35	0.45

m.s.n.m	b	δ	m= 0.45 T= 20°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	76.00	1.016	9.03	448.47	0.59	8.68	475.88	0.54
610	70.10	0.937	8.56	424.91	0.56	8.22	450.88	0.52
1220	65.00	0.870	8.14	404.41	0.53	7.82	429.12	0.49
1830	60.20	0.805	7.73	384.00	0.51	7.43	407.47	0.47
2440	55.90	0.747	7.36	365.33	0.48	7.07	387.66	0.44
3050	51.80	0.693	7.00	347.51	0.46	6.72	368.74	0.42
3660	48.00	0.642	6.65	330.24	0.43	6.39	350.42	0.40

m = 0.45								
m.s.n.m	b	δ	T = 25°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	760.0	1.000	10.80	163.86	0.70	10.24	201.80	0.69
610	701.0	0.922	10.23	155.22	0.67	9.70	191.16	0.66
1220	650.0	0.860	9.76	148.18	0.64	9.26	182.49	0.63
1830	602.0	0.791	9.23	140.15	0.60	8.76	172.60	0.59
2440	559.0	0.735	8.79	133.45	0.57	8.34	164.35	0.56
3050	518.0	0.681	8.35	126.83	0.54	7.93	156.20	0.54
3660	480.0	0.631	7.94	120.55	0.52	7.53	148.46	0.51

m = 0.45								
m.s.n.m	b	δ	T = 25°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	760.0	1.000	9.54	266.99	0.61	9.24	352.52	0.61
610	701.0	0.922	9.03	252.92	0.58	8.75	333.94	0.57
1220	650.0	0.860	8.62	241.45	0.55	8.35	318.80	0.55
1830	602.0	0.791	8.15	228.36	0.52	7.90	301.51	0.52
2440	559.0	0.735	7.76	217.45	0.50	7.52	287.11	0.49
3050	518.0	0.681	7.38	206.67	0.47	7.15	272.87	0.47
3660	480.0	0.631	7.01	196.42	0.45	6.79	259.34	0.44

m = 0.45								
m.s.n.m	b	δ	T = 25°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.000	8.94	443.75	0.59	8.59	470.87	0.54
610	701.0	0.922	8.47	420.36	0.56	8.13	446.05	0.51
1220	650.0	0.860	8.08	401.30	0.53	7.76	425.82	0.49
1830	602.0	0.791	7.64	379.54	0.50	7.34	402.73	0.46
2440	559.0	0.735	7.28	361.41	0.48	6.99	383.49	0.44
3050	518.0	0.681	6.92	343.48	0.45	6.64	364.47	0.42
3660	480.0	0.631	6.57	326.46	0.43	6.31	346.41	0.40

m = 0.45								
m.s.n.m	b	δ	T = 30°C					
			400 kV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	0.983	10.67	162.00	0.70	10.13	199.50	0.69
610	701.0	0.906	10.11	153.42	0.66	9.59	188.95	0.65
1220	650.0	0.840	9.61	145.88	0.63	9.12	179.65	0.62
1830	602.0	0.778	9.13	138.61	0.60	8.66	170.70	0.59
2440	559.0	0.723	8.69	132.00	0.57	8.25	162.56	0.56
3050	518.0	0.670	8.26	125.46	0.54	7.84	154.51	0.53
3660	490.0	0.620	7.85	119.14	0.51	7.45	146.73	0.50

m = 0.45								
m.s.n.m	b	δ	T = 30°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.983	9.43	263.96	0.60	9.13	348.51	0.60
610	701.0	0.906	8.93	249.99	0.57	8.65	330.07	0.57
1220	650.0	0.840	8.49	237.70	0.54	8.22	313.84	0.54
1830	602.0	0.778	8.06	225.85	0.52	7.81	298.20	0.51
2440	559.0	0.723	7.68	215.08	0.49	7.44	283.97	0.49
3050	518.0	0.670	7.30	204.43	0.47	7.07	269.92	0.46
3660	480.0	0.620	6.93	194.13	0.44	6.72	256.32	0.44

m = 0.45								
m.s.n.m	b	δ	T = 30°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.983	8.83	438.71	0.58	8.49	465.51	0.53
610	701.0	0.906	8.37	415.49	0.55	8.04	440.88	0.50
1220	650.0	0.840	7.96	395.06	0.52	7.64	419.20	0.48
1830	602.0	0.778	7.56	375.37	0.50	7.26	398.31	0.45
2440	559.0	0.723	7.20	357.46	0.47	6.92	379.31	0.43
3050	518.0	0.670	6.84	339.77	0.45	6.57	360.54	0.41
3660	480.0	0.620	6.50	322.65	0.42	6.24	342.37	0.39

m= 0.45								
m.s.n.m	b	δ	T=35°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	760.0	0.967	10.56	160.23	0.69	10.01	197.33	0.68
610	701.0	0.892	10.00	151.84	0.65	9.49	186.99	0.64
1220	650.0	0.830	9.53	144.72	0.62	9.04	178.23	0.61
1830	602.0	0.766	9.04	137.18	0.59	8.57	168.94	0.58
2440	559.0	0.711	8.60	130.53	0.56	8.16	160.75	0.55
3050	518.0	0.659	8.17	124.09	0.53	7.75	152.82	0.52
3660	480.0	0.610	7.76	117.86	0.51	7.36	145.15	0.50

m= 0.45								
m.s.n.m	b	δ	T=35°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.967	9.32	261.09	0.60	9.03	344.72	0.59
610	701.0	0.892	8.84	247.41	0.57	8.56	326.66	0.56
1220	650.0	0.830	8.42	235.81	0.54	8.16	311.34	0.53
1830	602.0	0.766	7.98	223.52	0.51	7.73	295.12	0.51
2440	559.0	0.711	7.59	212.69	0.49	7.36	280.82	0.48
3050	518.0	0.659	7.22	202.19	0.46	6.99	266.96	0.46
3660	480.0	0.610	6.86	192.04	0.44	6.64	253.56	0.43

m= 0.45								
m.s.n.m	b	δ	T=35°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.967	8.74	433.93	0.57	8.40	460.45	0.53
610	701.0	0.892	8.28	411.20	0.54	7.96	436.32	0.50
1220	650.0	0.830	7.89	391.91	0.52	7.58	415.86	0.48
1830	602.0	0.766	7.48	371.50	0.49	7.19	394.20	0.45
2440	559.0	0.711	7.12	353.50	0.47	6.84	375.10	0.43
3050	518.0	0.659	6.77	336.04	0.44	6.50	356.58	0.41
3660	480.0	0.610	6.43	319.17	0.42	6.17	338.68	0.39

m= 0.45								
m.s.n.m	b	δ	T= 40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C.S.	Go	Vo	C.S.
0	760.0	0.951	10.44	158.46	0.68	9.90	195.15	0.67
610	701.0	0.877	9.89	150.13	0.65	9.38	184.89	0.64
1220	650.0	0.810	9.38	142.38	0.61	8.90	175.35	0.60
1830	602.0	0.753	8.93	135.62	0.58	8.48	167.02	0.57
2440	559.0	0.700	8.51	129.18	0.55	8.07	159.09	0.55
3050	518.0	0.648	8.08	122.70	0.53	7.67	151.11	0.52
3660	490.0	0.601	7.69	116.70	0.50	7.29	143.71	0.49

m= 0.45								
m.s.n.m	b	δ	T= 40°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.951	9.22	258.20	0.59	8.93	340.91	0.59
610	701.0	0.877	8.74	244.63	0.56	8.46	322.99	0.55
1220	650.0	0.810	8.28	232.00	0.53	8.03	306.32	0.53
1830	602.0	0.753	7.89	220.99	0.51	7.65	291.78	0.50
2440	559.0	0.700	7.52	210.49	0.48	7.28	277.92	0.48
3050	518.0	0.648	7.14	199.93	0.46	6.92	263.98	0.45
3660	480.0	0.601	6.79	190.15	0.43	6.58	251.06	0.43

m= 0.45								
m.s.n.m	b	δ	T= 40°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.951	8.64	429.13	0.57	8.30	455.36	0.52
610	701.0	0.877	8.19	406.57	0.54	7.87	431.42	0.49
1220	650.0	0.810	7.76	385.59	0.51	7.46	409.16	0.47
1830	602.0	0.753	7.40	367.28	0.48	7.11	389.73	0.45
2440	559.0	0.700	7.04	349.84	0.46	6.77	371.22	0.42
3050	518.0	0.648	6.69	332.29	0.44	6.43	352.60	0.40
3660	480.0	0.601	6.36	316.03	0.42	6.11	335.34	0.38

m = 0.45								
m.s.n.m	b	δ	T = 45°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S	Go	Vo	C.S.
0	760.00	0.936	10.33	156.79	0.67	9.80	193.09	0.66
610	701.0	0.864	9.79	148.64	0.64	9.29	183.06	0.63
1220	650.0	0.800	9.30	141.21	0.61	8.83	173.90	0.60
1830	600.2	0.742	8.85	134.30	0.58	8.39	165.39	0.57
2440	559.0	0.689	8.42	127.83	0.55	7.99	157.42	0.54
3050	518.0	0.638	8.00	121.44	0.52	7.59	149.55	0.51
3660	480.0	0.591	7.60	115.40	0.49	7.21	142.12	0.49

m = 0.45								
m.s.n.m	b	δ	T = 45°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go	Vo.	C S	Go.	Vo.	C.S.
0	760.0	0.936	9.12	255.48	0.59	8.84	337.32	0.58
610	701.0	0.864	8.65	242.20	0.55	8.38	319.79	0.55
1220	650.0	0.800	8.22	230.09	0.53	7.96	303.79	0.52
1830	600.2	0.742	7.81	218.83	0.50	7.57	288.93	0.50
2440	559.0	0.689	7.44	208.28	0.48	7.21	275.00	0.47
3050	518.0	0.638	7.07	197.87	0.45	6.85	261.26	0.45
3660	480.0	0.591	6.71	188.03	0.43	6.50	248.26	0.43

m = 0.45								
m.s.n.m	b	δ	T = 45°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.936	8.55	424.61	0.56	8.21	450.56	0.52
610	701.0	0.864	8.11	402.54	0.53	7.79	427.14	0.49
1220	650.0	0.800	7.70	382.41	0.50	7.40	405.78	0.46
1830	600.2	0.742	7.32	363.70	0.48	7.04	385.92	0.44
2440	559.0	0.689	6.97	346.17	0.46	6.70	367.32	0.42
3050	518.0	0.638	6.62	328.87	0.43	6.36	348.96	0.40
3660	480.0	0.591	6.29	312.51	0.41	6.04	331.61	0.38

m.s.n.m	b	δ	m = 0.45 T = 50°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C S.	500 KV. ACSR/AW 1113.5 Ga	Va	C.S.
0	76.00	0.922	10.23	155.22	0.67	9.70	191.16	0.66
610	70.10	0.850	9.69	147.03	0.63	9.19	181.08	0.62
1220	65.00	0.790	9.22	140.03	0.60	8.75	172.45	0.59
1830	60.20	0.730	8.75	132.85	0.57	8.30	163.61	0.56
2440	55.90	0.678	8.33	126.46	0.54	7.90	155.74	0.53
3050	51.80	0.628	7.92	120.16	0.52	7.51	147.99	0.51
3660	48.00	0.582	7.52	114.22	0.49	7.14	140.67	0.48

m.s.n.m	b	δ	m = 0.45 T = 50°C 750 KV. ACSR/AW 1351.5 Go.	Va.	C.S	1000 KV. ACSR/AW 1272.0 Ga.	Va.	C.S.
0	76.00	0.922	9.03	252.92	0.58	8.75	333.94	0.57
610	70.10	0.850	8.56	239.58	0.55	8.29	316.32	0.54
1220	65.00	0.790	8.15	228.17	0.52	7.89	301.26	0.52
1830	60.20	0.730	7.73	216.46	0.49	7.49	285.80	0.49
2440	55.90	0.678	7.36	206.06	0.47	7.13	272.06	0.47
3050	51.80	0.628	6.99	195.80	0.45	6.77	258.52	0.44
3660	48.00	0.582	6.65	186.12	0.42	6.44	245.74	0.42

m.s.n.m	b	δ	m = 0.45 T = 50 1300 KV. ACSR/AW 1351.5 Go.	Va.	CS	1500 KV. ACSR/AW 1590.0 Ga.	Va.	C.S.
0	76.00	0.922	8.47	420.36	0.56	8.13	446.05	0.51
610	70.10	0.850	8.02	398.18	0.53	7.70	422.52	0.48
1220	65.00	0.790	7.64	379.22	0.50	7.34	402.39	0.46
1830	60.20	0.730	7.24	359.77	0.47	6.96	381.75	0.44
2440	55.90	0.678	6.90	342.47	0.45	6.62	363.40	0.41
3050	51.80	0.628	6.55	325.42	0.43	6.29	345.31	0.39
3660	48.00	0.582	6.23	309.33	0.41	5.98	328.23	0.37

m = 0.45									
m.s.n.m	b	δ	T = 55°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1115.5			
			Go.	Vo.	C S	Go	Vo	C.S.	
0	76.00	0.908	10.12	153.65	0.66	9.60	189.22	0.65	
610	70.10	0.837	9.59	145.53	0.63	9.10	179.23	0.62	
1220	65.00	0.780	9.15	138.85	0.60	8.68	170.99	0.59	
1830	60.20	0.719	8.66	131.51	0.56	8.22	161.96	0.56	
2440	55.90	0.668	8.25	125.21	0.54	7.82	154.21	0.53	
3050	51.80	0.619	7.84	119.01	0.51	7.44	146.57	0.50	
3660	48.00	0.573	7.45	113.04	0.48	7.06	139.22	0.48	

m = 0.45								
m.s.n.m	b	δ	T = 55°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go.	Vo.	C.S.
0	76.00	0.908	8.94	250.36	0.57	8.66	330.55	0.57
610	70.10	0.837	8.47	237.13	0.54	8.20	313.09	0.54
1220	65.00	0.780	8.08	226.24	0.52	7.83	298.71	0.51
1830	60.20	0.719	7.65	214.28	0.49	7.41	282.93	0.49
2440	55.90	0.668	7.29	204.03	0.47	7.06	269.38	0.46
3050	51.80	0.619	6.92	193.92	0.44	6.71	256.04	0.44
3660	48.00	0.573	6.58	184.19	0.42	6.37	243.20	0.42

m = 0.45								
m.s.n.m	b	δ	T = 55°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	0.908	8.38	416.10	0.55	8.05	441.53	0.50
610	70.10	0.837	7.94	394.11	0.52	7.62	418.20	0.48
1220	65.00	0.780	7.57	376.01	0.50	7.27	398.99	0.46
1830	60.20	0.719	7.17	356.14	0.47	6.89	377.91	0.43
2440	55.90	0.668	6.83	339.10	0.45	6.56	359.82	0.41
3050	51.80	0.619	6.49	322.30	0.42	6.23	342.00	0.39
3660	48.00	0.573	6.16	306.13	0.40	5.92	324.84	0.37

m = 0.45								
m.s.n.m	b	δ	T = 60°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	76.00	0.894	10.02	152.06	0.65	9.50	187.27	0.64
610	70.10	0.825	9.50	144.14	0.62	9.01	177.51	0.61
1220	65.00	0.770	9.07	137.66	0.59	8.60	169.53	0.58
1830	60.20	0.708	8.57	130.16	0.56	8.13	160.30	0.55
2440	55.90	0.658	8.17	123.96	0.53	7.75	152.66	0.52
3050	51.80	0.609	7.75	117.73	0.50	7.36	144.99	0.50
3660	48.00	0.565	7.38	111.99	0.48	7.00	137.92	0.47

m = 0.45								
m.s.n.m	b	δ	T = 60°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	0.894	8.85	247.78	0.57	8.57	327.15	0.56
610	70.10	0.825	8.39	234.86	0.54	8.13	310.09	0.53
1220	65.00	0.770	8.01	224.30	0.51	7.76	296.15	0.51
1830	60.20	0.708	7.57	212.09	0.48	7.34	280.03	0.48
2440	55.90	0.658	7.21	201.99	0.46	6.99	266.69	0.46
3050	51.80	0.609	6.85	191.83	0.44	6.64	253.28	0.43
3660	48.00	0.565	6.52	182.47	0.42	6.31	240.93	0.41

m = 0.45								
m.s.n.m	b	δ	T = 60° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo	C.S.
0	76.00	0.894	8.29	411.81	0.54	7.97	436.97	0.50
610	70.10	0.825	7.86	390.34	0.52	7.55	414.19	0.47
1220	65.00	0.770	7.51	372.79	0.49	7.21	395.57	0.45
1830	60.20	0.708	7.10	352.50	0.46	6.82	374.04	0.43
2440	55.90	0.658	6.76	335.70	0.44	6.49	356.22	0.41
3050	51.80	0.609	6.42	318.82	0.42	6.17	338.31	0.39
3660	48.00	0.565	6.11	303.28	0.40	5.87	321.81	0.37

m = 0.425								
m.s.n.m	b	δ	T = -10° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C S	Go	Vo	C.S.
0	760 0	1.1 32	11.07	168.09	0.72	10.51	207.01	0.71
6 1 0	70.1 0	1.0 4 4	10.49	159.26	0.68	9.95	196.14	0.67
1 2 2 0	6 5 0 0	0.9 7 0	9.99	151.64	0.65	9.48	186.76	0.64
1 8 3 0	60.20	0.8 9 7	9.48	143.94	0.62	9.00	177.26	0.61
2 4 4 0	55 90	0.8 3 3	9.03	137.01	0.59	8.56	168.73	0.58
3 0 5 0	51.80	0.7 7 2	8.58	130.23	0.56	8.14	160.39	0.55
3 6 6 0	48.00	0.7 1 5	8.15	123.74	0.53	7.73	152.39	0.52

m = 0.425								
m.s.n.m	b	δ	T = -10° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C S	Go	Vo	C.S.
0	760 0	1.1 32	9.78	273.89	0.63	9.48	361.63	0.62
6 1 0	70.1 0	1.0 4 4	9.27	259.50	0.59	8.98	342.63	0.59
1 2 2 0	65.00	0.9 7 0	8.82	247.09	0.57	8.55	326.24	0.56
1 8 3 0	60.20	0.8 9 7	8.38	234.53	0.54	8.11	309.66	0.53
2 4 4 0	55.90	0.8 3 3	7.97	223.24	0.51	7.72	294.75	0.51
3 0 5 0	51.80	0.7 7 2	7.58	212.21	0.49	7.34	280.18	0.48
3 6 6 0	48.00	0.7 1 5	7.20	201.63	0.46	6.98	266.22	0.46

m = 0,425								
m.s.n.m	b	δ	T = -10° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.1 3 2	9.17	455.21	0.60	8.81	483.03	0.55
6 1 0	70.10	1.0 4 4	8.69	431.30	0.57	8.34	457.66	0.52
1 2 2 0	65.00	0.9 7 0	8.27	410.67	0.54	7.95	435.77	0.50
1 8 3 0	60.20	0.8 9 7	7.85	389.80	0.51	7.54	413.62	0.47
2 4 4 0	55.90	0.8 3 3	7.47	371.03	0.49	7.18	393.71	0.45
3 0 5 0	51.80	0.7 7 2	7.10	352.69	0.46	6.82	374.24	0.43
3 6 6 0	48.00	0.7 1 5	6.75	335.11	0.44	6.48	355.59	0.41

m = 0.425									
m.s.n.m	b	δ	T = -5°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	1.111	10.94	166.00	0.71	10.38	204.44	0.70	
610	701.0	1.025	10.36	157.32	0.68	9.83	193.75	0.67	
1220	650.0	0.950	9.85	149.55	0.64	9.35	184.18	0.63	
1830	602.0	0.880	9.36	142.11	0.61	8.83	175.02	0.60	
2440	559.0	0.817	8.91	135.25	0.58	8.45	166.56	0.57	
3050	518.0	0.757	8.47	128.54	0.55	8.03	158.30	0.54	
3660	480.0	0.702	8.05	122.24	0.52	7.64	150.54	0.52	

m = 0.425									
m.s.n.m	b	δ	T = -5°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.111	9.66	270.49	0.62	9.36	357.14	0.61	
610	701.0	1.025	9.15	256.35	0.59	8.87	338.46	0.58	
1220	650.0	0.950	8.70	243.68	0.56	8.43	321.74	0.55	
1830	602.0	0.880	8.27	231.56	0.53	8.01	305.74	0.52	
2440	559.0	0.817	7.87	220.37	0.50	7.62	290.97	0.50	
3050	518.0	0.757	7.48	209.45	0.48	7.25	276.54	0.47	
3660	480.0	0.702	7.11	199.18	0.45	6.89	262.98	0.45	

m = 0.425									
m.s.n.m	b	δ	T = -5°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go	Vo.	CS	Go.	Vo.	C.S.	
0	760.0	1.111	9.05	449.56	0.59	8.70	477.03	0.55	
610	701.0	1.025	8.58	426.05	0.56	8.24	452.09	0.52	
1220	650.0	0.950	8.16	405.01	0.53	7.84	429.76	0.49	
1830	602.0	0.880	7.75	384.86	0.51	7.45	408.38	0.47	
2440	559.0	0.817	7.38	366.27	0.48	7.09	388.65	0.44	
3050	518.0	0.757	7.01	348.11	0.46	6.73	369.38	0.42	
3660	480.0	0.702	6.67	331.03	0.44	6.40	351.26	0.40	

m = 0.425								
msnm	b	δ	T = 0° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go	Vo.	C.S.	Go	Vo	C.S.
0	760	1.091	10.80	164.01	0.71	10.25	201.98	0.69
610	701.0	1.006	10.24	155.37	0.67	9.71	191.35	0.66
1220	650.0	0.930	9.71	147.45	0.63	9.22	181.59	0.62
1830	602.0	0.864	9.25	140.39	0.60	8.77	172.89	0.59
2440	559.0	0.802	8.80	133.59	0.57	8.35	164.52	0.56
3050	518.0	0.743	8.36	126.95	0.54	7.93	156.35	0.54
3660	480.0	0.689	7.95	120.72	0.52	7.54	148.68	0.51

m = 0.425								
msnm	b	δ	T = 0° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	1.091	9.54	267.24	0.61	9.25	352.84	0.61
610	701.0	1.006	9.04	253.17	0.58	8.76	334.27	0.57
1220	650.0	0.930	8.58	240.25	0.55	8.31	317.21	0.54
1830	602.0	0.864	8.17	228.75	0.52	7.91	302.02	0.52
2440	559.0	0.802	7.77	217.67	0.50	7.53	287.39	0.49
3050	518.0	0.743	7.39	206.86	0.47	7.16	273.12	0.47
3660	480.0	0.689	7.02	196.71	0.45	6.80	259.72	0.44

m = 0.425								
msnm	b	δ	T = 0° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760	1.091	8.94	444.15	0.59	8.59	471.29	0.54
610	701.0	1.006	8.47	420.77	0.56	8.14	446.48	0.51
1220	650.0	0.930	8.04	399.30	0.53	7.73	423.70	0.48
1830	602.0	0.864	7.66	380.18	0.50	7.35	403.41	0.46
2440	559.0	0.802	7.28	361.77	0.48	7.00	383.88	0.44
3050	518.0	0.743	6.92	343.80	0.45	6.65	364.81	0.42
3660	480.0	0.689	6.58	326.94	0.43	6.32	346.91	0.40

m= 0.425								
m.s.n.m	b	δ	T= 5°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo.	C.S.
0	76.00	1.071	10.67	162.00	0.70	10.13	199.50	0.69
610	70.10	0.988	10.11	153.51	0.66	9.59	189.06	0.65
1220	65.00	0.920	9.64	146.39	0.63	9.15	180.28	0.62
1830	60.20	0.848	9.13	138.69	0.60	8.66	170.75	0.59
2440	55.90	0.788	8.70	132.03	0.57	8.25	162.60	0.56
3050	51.80	0.730	8.26	125.47	0.54	7.84	154.52	0.53
3660	48.00	0.676	7.85	119.20	0.51	7.45	146.80	0.50

m= 0.425								
m.s.n.m	b	δ	T= 5°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.071	9.43	263.96	0.60	9.13	348.51	0.60
610	70.10	0.988	8.93	250.14	0.57	8.65	330.27	0.57
1220	65.00	0.920	8.52	238.53	0.55	8.25	314.93	0.54
1830	60.20	0.848	8.07	225.91	0.52	7.82	298.28	0.51
2440	55.90	0.788	7.68	215.13	0.49	7.44	284.04	0.49
3050	51.80	0.730	7.30	204.44	0.47	7.07	269.93	0.46
3660	48.00	0.676	6.93	194.23	0.44	6.72	256.44	0.44

m= 0.425								
m.s.n.m	b	δ	T= 5°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	76.00	1.071	8.83	438.71	0.58	8.49	465.51	0.53
610	70.10	0.988	8.37	415.74	0.55	8.04	441.14	0.50
1220	65.00	0.920	7.98	396.44	0.52	7.67	420.66	0.48
1830	60.20	0.848	7.56	375.47	0.50	7.26	398.42	0.46
2440	55.90	0.788	7.20	357.55	0.47	6.92	379.40	0.43
3050	51.80	0.730	6.84	339.78	0.45	6.57	360.54	0.41
3660	48.00	0.676	6.50	322.81	0.43	6.24	342.54	0.39

m = 0.425								
m.s.n.m	b	δ	T = 10° C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go	Vo	C.S.
0	7600	1.052	10.55	160.07	0.69	10.00	197.14	0.68
610	7010	0.970	9.99	151.64	0.65	9.48	186.76	0.64
1220	6500	0.900	9.50	144.26	0.62	9.02	177.66	0.61
1830	6020	0.833	9.03	137.01	0.59	8.56	168.73	0.58
2440	5590	0.774	8.37	127.07	0.55	7.94	156.49	0.54
3050	5180	0.717	8.17	123.97	0.53	7.75	152.68	0.52
3660	4800	0.664	7.76	117.79	0.51	7.36	145.06	0.50

m = 0.425								
m.s.n.m	b	δ	T = 10° C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	7600	1.052	9.31	260.83	0.60	9.02	344.38	0.59
610	7010	0.970	8.82	247.09	0.57	8.55	326.24	0.56
1220	6500	0.900	8.39	235.06	0.54	8.13	310.35	0.53
1830	6020	0.833	7.97	223.24	0.51	7.72	294.75	0.51
2440	5590	0.774	7.39	207.04	0.47	7.16	273.37	0.47
3050	5180	0.717	7.21	202.00	0.46	6.99	266.71	0.46
3660	4800	0.664	6.85	191.92	0.44	6.64	253.40	0.43

m = 0.425								
m.s.n.m	b	δ	T = 10° C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	76.00	1.052	8.73	433.50	0.57	8.39	459.99	0.53
610	70.10	0.970	8.27	410.67	0.54	7.95	435.77	0.50
1220	65.00	0.900	7.87	390.67	0.52	7.56	414.54	0.47
1830	60.20	0.833	7.47	371.03	0.49	7.18	393.71	0.45
2440	55.90	0.774	6.93	344.11	0.45	6.66	365.14	0.42
3050	51.80	0.717	6.76	335.73	0.44	6.49	356.25	0.41
3660	48.00	0.664	6.42	318.98	0.42	6.17	338.47	0.39

m = 0.425								
m.s.n.m	b	f	T = 15°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S.	Go.	Vo	C.S.
0	760.0	1.034	10.42	158.24	0.68	9.89	194.88	0.67
610	701.0	0.954	9.88	149.97	0.64	9.37	184.70	0.63
1220	650.0	0.880	9.36	142.11	0.61	8.88	175.02	0.60
1830	602.0	0.819	8.92	135.47	0.58	8.47	166.83	0.57
2440	559.0	0.760	8.49	128.88	0.55	8.05	158.72	0.54
3050	519.0	0.705	8.07	122.59	0.53	7.66	150.97	0.52
3660	480.0	0.653	7.67	116.48	0.50	7.28	143.45	0.49

m = 0.425								
m.s.n.m	b	f	T = 15°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.034	9.21	257.84	0.59	8.92	340.44	0.58
610	701.0	0.954	8.73	244.37	0.56	8.45	322.65	0.55
1220	650.0	0.880	8.27	231.56	0.53	8.01	305.74	0.52
1830	602.0	0.819	7.88	220.73	0.50	7.64	291.44	0.50
2440	559.0	0.760	7.50	210.00	0.48	7.26	277.27	0.48
3050	519.0	0.705	7.13	199.74	0.46	6.91	263.73	0.45
3660	480.0	0.653	6.78	189.80	0.43	6.57	250.59	0.43

m = 0.425								
m.s.n.m	b	f	T = 15°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.034	8.63	428.54	0.57	8.29	454.73	0.52
610	701.0	0.954	8.18	406.14	0.54	7.86	430.96	0.49
1220	650.0	0.880	7.75	384.86	0.51	7.45	408.38	0.47
1830	602.0	0.819	7.39	366.86	0.48	7.10	389.28	0.44
2440	559.0	0.760	7.03	349.03	0.46	6.75	370.35	0.42
3050	519.0	0.705	6.68	331.98	0.44	6.42	352.26	0.40
3660	480.0	0.653	6.35	315.45	0.42	6.10	334.72	0.38

m.s.n.m	b	δ	m= 1.425 T= 20°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Ga	Va	C.S.
0	760.0	1.016	10.30	156.40	0.67	9.78	192.61	0.66
610	701.0	0.937	9.76	148.19	0.64	9.26	182.50	0.63
1220	650.0	0.870	9.29	141.03	0.61	8.81	173.69	0.60
1830	602.0	0.805	8.82	133.92	0.57	8.37	164.93	0.57
2440	559.0	0.747	8.39	127.41	0.55	7.96	156.91	0.54
3050	518.0	0.693	7.98	121.19	0.52	7.57	149.25	0.51
3660	480.0	0.642	7.59	115.17	0.49	7.20	141.84	0.49

m.s.n.m	b	δ	m= 0.425 T=20°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	CS	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	1.016	9.10	254.84	0.58	8.82	336.48	0.58
610	701.0	0.937	8.62	241.46	0.55	8.35	318.80	0.55
1220	650.0	0.870	8.21	229.80	0.53	7.95	303.42	0.52
1830	602.0	0.805	7.79	218.21	0.50	7.55	288.11	0.49
2440	559.0	0.747	7.41	207.60	0.47	7.18	274.10	0.47
3050	518.0	0.693	7.05	197.47	0.45	6.83	260.73	0.45
3660	480.0	0.642	6.70	187.66	0.43	6.49	247.77	0.42

m.s.n.m	b	δ	m= 0.425 T=20°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	1.016	8.53	423.56	0.56	8.19	449.44	0.51
610	701.0	0.937	8.08	401.30	0.53	7.76	425.83	0.49
1220	650.0	0.870	7.69	381.94	0.50	7.39	405.28	0.46
1830	602.0	0.805	7.30	362.67	0.48	7.02	384.83	0.44
2440	559.0	0.747	6.95	345.03	0.45	6.67	366.12	0.42
3050	518.0	0.693	6.61	328.20	0.43	6.35	348.26	0.40
3660	480.0	0.642	6.28	311.89	0.41	6.03	330.95	0.38

m = 0.425								
m.s.n.m	b	δ	T = 25°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	C.S	Go	Vo	C.S.
0	760.0	1.000	10.20	154.76	0.67	9.67	190.59	0.66
610	701.0	0.922	9.66	146.60	0.63	9.16	180.54	0.62
1220	650.0	0.860	9.22	139.95	0.60	8.75	172.36	0.59
1830	602.0	0.791	8.72	132.36	0.57	8.27	163.01	0.56
2440	559.0	0.735	8.30	126.04	0.54	7.88	155.22	0.53
3050	518.0	0.681	7.89	119.79	0.51	7.49	147.52	0.51
3660	480.0	0.631	7.50	113.85	0.49	7.11	140.21	0.48

m = 0.425								
m.s.n.m	b	δ	T = 25°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo	C.S.
0	760.0	1.000	9.01	252.16	0.58	8.72	332.94	0.57
610	701.0	0.922	8.53	238.87	0.55	8.26	315.39	0.54
1220	650.0	0.860	8.14	228.04	0.52	7.89	301.09	0.52
1830	602.0	0.791	7.70	215.67	0.49	7.46	284.76	0.49
2440	559.0	0.735	7.33	205.37	0.47	7.10	271.16	0.46
3050	518.0	0.681	6.97	195.18	0.45	6.75	257.71	0.44
3660	480.0	0.631	6.62	185.51	0.42	6.42	244.93	0.42

m = 0.425								
m.s.n.m	b	δ	T = 25°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go.	Vo.	CS	Go.	Vo.	C.S.
0	760.0	1.000	8.44	419.10	0.55	8.11	444.71	0.51
610	701.0	0.922	7.99	397.01	0.52	7.68	421.27	0.48
1220	650.0	0.860	7.63	379.01	0.50	7.33	402.17	0.46
1830	602.0	0.791	7.22	358.45	0.47	6.93	380.36	0.43
2440	559.0	0.735	6.87	341.33	0.45	6.60	362.19	0.41
3050	518.0	0.681	6.52	324.40	0.43	6.28	344.22	0.39
3660	480.0	0.631	6.21	308.32	0.41	5.96	327.16	0.37

m.s.n.m	b	δ	m= 0.425 T= 30°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo.	C.S.
0	760.0	0.983	10.08	153.00	0.66	9.56	188.42	0.65
610	701.0	0.906	9.55	144.90	0.62	9.06	178.45	0.61
1220	650.0	0.840	9.08	137.77	0.59	8.61	169.67	0.58
1830	602.0	0.778	8.62	130.91	0.56	8.18	161.22	0.55
2440	559.0	0.723	8.21	124.66	0.53	7.79	153.53	0.53
3050	518.0	0.670	7.81	118.49	0.51	7.40	145.93	0.50
3660	480.0	0.620	7.41	112.52	0.48	7.03	138.58	0.48

m.s.n.m	b	δ	m= 0.425 T= 30°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	0.983	8.90	249.30	0.57	8.63	329.15	0.57
610	701.0	0.906	8.43	236.10	0.54	8.17	311.73	0.53
1220	650.0	0.840	8.02	224.49	0.51	7.77	296.40	0.51
1830	602.0	0.778	7.62	213.30	0.49	7.38	281.63	0.48
2440	559.0	0.723	7.25	203.13	0.46	7.03	268.20	0.46
3050	518.0	0.670	6.89	193.08	0.44	6.68	254.93	0.44
3660	480.0	0.620	6.55	183.35	0.42	6.34	242.08	0.41

m.s.n.m	b	δ	m= 0.425 T= 30°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	0.983	8.34	414.33	0.55	8.02	439.65	0.50
610	701.0	0.906	7.90	392.40	0.52	7.59	416.38	0.48
1220	650.0	0.840	7.51	373.11	0.49	7.22	395.91	0.45
1830	602.0	0.778	7.14	354.52	0.47	6.86	376.18	0.43
2440	559.0	0.723	6.80	337.60	0.44	6.53	358.23	0.41
3050	518.0	0.670	6.46	320.90	0.42	6.21	340.51	0.39
3660	480.0	0.620	6.14	304.73	0.40	5.89	323.35	0.37

m = 0.425									
m.s.n.m	b	δ	T = 35°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	76.00	0.967	9.97	151.33	0.65	9.46	186.37	0.64	
610	70.10	0.892	9.45	143.40	0.62	8.96	176.61	0.61	
1220	65.00	0.830	9.00	136.68	0.59	8.54	168.32	0.58	
1830	60.20	0.766	8.53	129.56	0.56	8.10	159.56	0.55	
2440	55.90	0.711	8.12	123.28	0.53	7.70	151.82	0.52	
3050	51.80	0.659	7.72	117.19	0.50	7.32	144.33	0.49	
3660	48.00	0.610	7.33	111.31	0.48	6.96	137.08	0.47	

m = 0.425									
m.s.n.m	b	δ	T = 35°C						
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0			
			Go.	Vo.	C.S	Go.	Vo.	C.S.	
0	76.00	0.967	8.81	246.58	0.56	8.53	325.57	0.56	
610	70.10	0.892	8.34	233.66	0.53	8.08	308.51	0.53	
1220	65.00	0.830	7.95	222.71	0.51	7.70	294.05	0.50	
1830	60.20	0.766	7.54	211.10	0.48	7.30	278.73	0.48	
2440	55.90	0.711	7.17	200.87	0.46	6.95	265.22	0.45	
3050	51.80	0.659	6.28	190.96	0.44	6.61	252.13	0.43	
3660	48.00	0.610	6.48	181.37	0.41	6.27	239.47	0.41	

m = 0.425									
m.s.n.m	b	δ	T = 35°C						
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0			
			Go.	Vo.	CS	Go.	Vo.	C.S.	
0	76.00	0.967	8.25	409.83	0.54	7.93	434.87	0.50	
610	70.10	0.892	7.82	388.35	0.51	7.51	412.08	0.47	
1220	65.00	0.830	7.45	370.14	0.49	7.16	392.76	0.45	
1830	60.20	0.766	7.06	350.86	0.46	6.79	372.30	0.42	
2440	55.90	0.711	6.72	333.86	0.44	6.46	354.26	0.40	
3050	51.80	0.659	6.39	317.37	0.42	6.14	336.77	0.38	
3660	48.00	0.610	6.07	301.44	0.40	5.83	319.86	0.36	

m = 0.425								
m.s.n.m	b	δ	T = 40°C					
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	760.0	0.951	9.86	149.66	0.64	9.35	184.31	0.63
610	701.0	0.877	9.34	141.79	0.61	8.86	174.62	0.60
1220	650.0	0.810	8.86	134.47	0.58	8.40	165.61	0.57
1830	602.0	0.753	8.44	128.09	0.55	8.00	157.75	0.54
2440	559.0	0.700	8.04	122.01	0.52	7.62	150.25	0.52
3050	518.0	0.648	7.63	115.89	0.50	7.24	142.72	0.49
3660	490.0	0.601	7.26	110.21	0.47	6.89	135.73	0.47

m = 0.425								
m.s.n.m	b	δ	T = 40°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	CS	Go.	Vo	C.S.
0	760.0	0.951	8.71	243.86	0.56	8.44	321.97	0.55
610	701.0	0.877	8.25	231.04	0.53	7.99	305.04	0.52
1220	650.0	0.810	7.82	219.11	0.50	7.58	289.30	0.50
1830	602.0	0.753	7.45	208.71	0.48	7.22	275.57	0.47
2440	559.0	0.700	7.10	198.80	0.45	6.88	262.48	0.45
3050	518.0	0.648	6.74	188.83	0.43	6.53	249.31	0.43
3660	480.0	0.601	6.41	179.58	0.41	6.21	237.11	0.41

m = 0.425								
m.s.n.	b	δ	T = 40°C					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.951	8.16	405.29	0.53	7.84	430.06	0.49
610	701.0	0.877	7.73	383.99	0.51	7.43	407.45	0.47
1220	650.0	0.810	7.33	364.17	0.48	7.04	386.42	0.44
1830	602.0	0.753	6.98	346.88	0.46	6.71	368.08	0.42
2440	559.0	0.700	6.65	330.41	0.44	6.39	350.60	0.40
3050	518.0	0.648	6.32	313.83	0.41	6.07	333.01	0.38
3660	480.0	0.601	6.01	298.47	0.39	5.77	316.71	0.36

m.s.n.m	b	δ	m = 0.425 T = 45°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go	Vo	C.S.
0	760.0	0.936	9.76	148.08	0.64	9.25	182.37	0.63
610	70.10	0.864	9.25	140.39	0.60	8.77	172.89	0.59
1220	65.00	0.800	8.79	133.36	0.57	8.33	164.24	0.56
1830	60.20	0.742	8.35	126.84	0.54	7.93	156.21	0.54
2440	55.90	0.689	7.95	120.72	0.52	7.54	148.68	0.51
3050	51.80	0.638	7.55	114.69	0.49	7.17	141.25	0.48
3660	48.00	0.591	7.18	108.99	0.47	6.81	134.22	0.46

m.s.n.m	b	δ	m = 0.425 T = 45°C 750 KV. ACSR/A./ 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	0.936	8.62	241.28	0.55	8.35	318.58	0.55
610	70.10	0.864	8.17	228.75	0.52	7.91	302.02	0.52
1220	65.00	0.800	7.76	217.31	0.50	7.52	286.92	0.49
1830	60.20	0.742	7.38	206.67	0.47	7.15	272.88	0.47
2440	55.90	0.689	7.02	196.71	0.45	6.80	259.72	0.44
3050	51.80	0.638	6.67	186.88	0.43	6.46	246.74	0.42
3660	48.00	0.591	6.34	177.58	0.41	6.14	234.47	0.40

m.s.n.m	b	δ	m = 0.425 T = 45°C 1300 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1500 KV. ACSR/AW 1590.0 Go.	vo.	C.S.
0	76.00	0.936	8.08	401.02	0.53	7.76	425.52	0.49
610	70.10	0.864	7.66	380.18	0.50	7.35	403.41	0.46
1220	65.00	0.800	7.27	361.17	0.48	6.99	383.24	0.44
1830	60.20	0.742	6.92	343.49	0.45	6.64	364.48	0.42
2440	55.90	0.689	6.58	326.94	0.43	6.32	346.91	0.40
3050	51.80	0.638	6.25	310.60	0.41	6.01	329.58	0.38
3660	48.00	0.591	5.94	295.15	0.39	5.71	313.18	0.36

m = 0.425									
m.s.n.m	b	δ	T = 50°C						
			400 KV ACSR/AW 1272.0			500 KV. ACSR/AW 1113.5			
			Go.	Vo.	C.S.	Go	Vo	C.S.	
0	760.0	0.922	9.66	146.60	0.63	9.16	180.54	0.62	
610	701.0	0.850	9.15	138.86	0.60	8.68	171.02	0.59	
1220	650.0	0.790	8.71	132.25	0.57	8.26	162.87	0.56	
1830	602.0	0.730	8.26	125.47	0.54	7.84	154.52	0.53	
2440	559.0	0.678	7.87	119.44	0.51	7.46	147.09	0.50	
3050	518.0	0.628	7.48	113.49	0.49	7.09	139.77	0.48	
3660	480.0	0.582	7.11	107.88	0.46	6.74	132.85	0.46	

m = 0.425								
m.s.n.m	b	δ	T = 50°C					
			750 KV. ACSR/AW 1351.5			1000 KV. ACSR/AW 1272.0		
			Go.	Vo.	C.S	Go.	Vo.	C.S.
0	760.0	0.922	8.53	238.87	0.55	8.26	315.39	0.54
610	701.0	0.850	8.08	226.27	0.52	7.83	298.75	0.51
1220	650.0	0.790	7.69	215.49	0.49	7.46	284.52	0.49
1830	602.0	0.730	7.30	204.44	0.47	7.07	269.93	0.46
2440	559.0	0.678	6.95	194.61	0.44	6.73	256.95	0.44
3050	518.0	0.628	6.60	184.92	0.42	6.40	244.16	0.42
3660	480.0	0.582	6.28	175.78	0.40	6.08	232.08	0.40

m = 0.425								
m.s.n.m	b	δ	T = 50					
			1300 KV. ACSR/AW 1351.5			1500 KV. ACSR/AW 1590.0		
			Go	Vo.	CS	Go.	Vo.	C.S.
0	760.0	0.922	7.99	397.01	0.52	7.68	421.27	0.48
610	701.0	0.850	7.57	376.06	0.50	7.28	399.04	0.46
1220	650.0	0.790	7.21	358.15	0.47	6.93	380.04	0.43
1830	602.0	0.730	6.84	339.78	0.45	6.57	360.54	0.41
2440	559.0	0.678	6.51	323.45	0.43	6.26	343.21	0.39
3050	518.0	0.628	6.19	307.34	0.40	5.94	326.12	0.37
3660	490.0	0.582	5.88	292.14	0.38	5.65	310.00	0.35

m.s.n.m	b	δ	m= 0.425 T=55°C 400 KV ACSR/AW 1272.0 Go.	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Go.	Vo	C.S.
0	76.00	0.908	9.56	145.11	0.62	9.07	178.71	0.61
610	70.10	0.837	9.05	137.45	0.59	8.59	169.07	0.58
1220	65.00	0.780	8.64	131.13	0.56	8.20	161.49	0.55
1830	60.20	0.719	8.18	124.20	0.53	7.76	152.96	0.52
2440	55.90	0.668	7.79	118.26	0.51	7.39	145.64	0.50
3050	51.80	0.819	7.40	112.40	0.48	7.02	138.43	0.47
3660	48.00	0.573	7.03	106.76	0.46	6.67	131.48	0.45

m.s.n.m	b	δ	m= 0.425 T=55°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	76.00	0.908	8.44	236.45	0.54	8.18	312.19	0.54
610	70.10	0.837	8.00	223.96	0.51	7.75	295.70	0.51
1220	65.00	0.780	7.63	213.67	0.49	7.39	282.11	0.48
1830	60.20	0.719	7.23	202.38	0.46	7.00	267.21	0.46
2440	55.90	0.668	6.88	192.69	0.44	6.67	254.42	0.44
3050	51.80	0.619	6.54	183.15	0.42	6.34	241.82	0.41
3660	48.00	0.573	6.21	173.96	0.40	6.02	229.69	0.39

m.s.n.m	b	δ	m= 0.425 T=55°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo	C.S.
0	76.00	0.908	7.91	392.98	0.52	7.60	417.00	0.48
610	70.10	0.837	7.50	372.22	0.49	7.20	394.96	0.45
1220	65.00	0.780	7.15	355.12	0.47	6.87	376.82	0.43
1830	60.20	0.719	6.77	336.36	0.44	6.51	356.91	0.41
2440	55.90	0.668	6.45	320.26	0.42	6.19	339.83	0.39
3050	51.80	0.619	6.13	304.40	0.40	5.89	323.00	0.37
3660	48.00	0.573	5.82	289.13	0.38	5.59	306.79	0.35

m.s.n.m	b	δ	m= 0.425 T= 60°C 400 KV ACSR/AW 1272.0 Go	Vo.	C.S.	500 KV. ACSR/AW 1113.5 Ga	Va	C.S.
0	760.0	0.894	9.46	143.62	0.62	8.98	176.87	0.61
610	701.0	0.825	8.97	136.13	0.58	8.51	167.65	0.58
1220	650.0	0.770	8.56	130.01	0.56	8.12	160.11	0.55
1830	602.0	0.708	8.10	122.93	0.53	7.68	151.40	0.52
2440	559.0	0.658	7.71	117.07	0.50	7.32	144.18	0.49
3050	518.0	0.609	7.32	111.19	0.48	6.95	136.93	0.47
3660	480.0	0.565	6.97	105.77	0.45	6.61	130.25	0.45

m.s.n.m	b	δ	m= 0.425 T= 60°C 750 KV. ACSR/AW 1351.5 Go.	Vo.	C.S	1000 KV. ACSR/AW 1272.0 Go.	Vo.	C.S.
0	760.0	0.894	8.36	234.01	0.54	8.10	308.97	0.53
610	701.0	0.825	7.92	221.81	0.51	7.67	292.86	0.50
1220	650.0	0.770	7.56	211.84	0.48	7.33	279.70	0.48
1830	602.0	0.708	7.15	200.31	0.46	6.93	264.47	0.45
2440	559.0	0.658	6.81	190.76	0.44	6.60	251.87	0.43
3050	518.0	0.609	6.47	181.17	0.41	6.27	239.21	0.41
3660	480.0	0.565	6.15	172.34	0.39	5.96	227.54	0.39

m.s.n.m	b	δ	m= 0.425 T= 60°C 1300 KV. ACSR/AW 1351.5 Go	Vo.	CS	1500 KV. ACSR/AW 1590.0 Go.	Vo.	C.S.
0	760.0	0.894	7.83	388.93	0.51	7.52	412.70	0.47
610	701.0	0.825	7.42	368.65	0.49	7.13	391.18	0.45
1220	650.0	0.770	7.09	352.08	0.46	6.81	373.60	0.43
1830	602.0	0.708	6.70	332.92	0.44	6.44	353.26	0.40
2440	559.0	0.658	6.38	317.05	0.42	6.13	336.43	0.38
3050	518.0	0.609	6.06	301.11	0.40	5.82	319.51	0.36
3660	480.0	0.565	5.77	286.43	0.38	5.54	303.93	0.35

CONCEPTO	INDICE DE FIGURAS	PAGINA
1-A	Esquema de la estructura de un átomo.	3
1-C	Campo Eléctrico constante originado por un potencial (V) constante (Corriente Directa)	7
1-D	Potencial de C. A. que origina el Campo Eléctrico Variable.	7
1-E	Campo Eléctrico Variable originado por un potencial de C. A. (semiciclo positivo).	7
1-F	Campo Eléctrico Variable originado por un potencial de C. A. (semiciclo negativo).	8
1-G	Superficies equipotenciales.	9
2-D	Presión Barométrica de los puntos A, B, C, D, E, F, G. a distintas altitudes.	23
2-F	Circuito trifásico con un conductor por fase.	30
2-G	Circuito trifásico con dos conductores por fase.	31
2-H	Estructura de Línea de Transmisión de 400 Kv.	33
2-J	Perfil entre dos estructuras -- mostrando hg y F.	33
2-K	Línea de transmisión con dos -- hilos.	37
3-A	Curva de Peek.	43
3-C	Línea de transmisión trifásica de 500 Kv. entre fases.	46
4-A	Curva de atenuación lateral del ruido por Efecto Corona, en líneas de alta tensión.	50
4-B	Forma del espectro de frecuencias, generado en líneas de alta tensión.	51
4-C	Variación de los niveles de R. I. en una línea de transmisión.	54
4-D	Nivel de R. I. (Nivel de ruido audible) y Pérdidas por Efecto Corona en R. I.	55

CONCEPTO	INDICE DE TABLAS	PAGINA
1-B	Descripción de las características Eléctricas de los átomos de Hidrógeno, Helio-Litio, Berilio, Carbono.	4
2-A	Rigidez dieléctrica de algunas substancias.	12
2-B	Indica el factor de rugosidad del cable para diferentes formas y superficies del cable.	21
2-C	Algunas características de los cables seleccionados en este estudio, de cables ACSR y ACSR/AW.	22
2-E	Factor de densidad del aire (σ) a diferentes presiónes y diferentes temperaturas.	24
3-B	Valores de F en función de Vn y Vo.	45
5-A	Consideraciones que deben tomarse en cuenta al diseñar Líneas de Transmisión a varios niveles de tensión.	59

BIBLIOGRAFIA

Fundamentos de Electrotecnia	M. Kusnetsov
Lectures on Physics	Feymman
Técnica de las Altàs Tensiónes	G. Enriquez Harper
Gaseous Conductors	James Dillon Cobine
Redes Electricas, Tomo I	Ing. Jacinto Viqueira Landa
Análisis de Sistemas Electricos de Potencia	William D. Stevenson
Gráficas para el cálculo de Líneas de Transmisión y Subestaciones	Ing. Daniel Barrios-Morales Frias
Transaction 43 del AIEE pagina 1118 de 1924	H. J. Ryan
Power Engneering Society A 77560 - 6 de 1977	S. Cristina y M. D' Amore.
The Future of UHV Transmission Lines (" Spectrum 44 1969)	IEEE