

REFERENCES

- [1] IEEE, *IEEE Standard 738 "IEEE Standard for Calculating the Current-Temperature Relationship of Bare Overhead Conductors"*, 2012.
- [2] C. R. Bayliss (Dr.) and B. Hardy (C Eng), *Transmission and Distribution Electrical Engineering*, 3rd ed.
- [3] CEB, *CEB Technical Specifications - Employer's Requirements - Part B of Bidding Document*, vol. 5 of 8.
- [4] David M.Greenwood,Jake P.Gentle,Kurt S.Myers, Peter J. Davison, Isaac J.West,Jason W.Bush, Grant L.Ingram and Matthias C.M.Troffaes., "A comparison of Real-Time Thermal Rating Systems in the U.S and U.K," *IEEE Trans. Power Del.*, vol. 29, no. 4, August 2014.
- [5] Bolun Xu,Andreas Ulbig, Goran Andersson.,"Impacts on Dynamic Line Rating on Power Dispatch Performance and Grid Integration of Renewable Energy Sources", 4th IEEE PES Innovative Smart Grid Tech. Europe, Copenhagen,2013
- [6] IEC, *IEC standard 61597 "Overhead electrical conductors – Calculation methods for stranded bare conductors"*, 1rd ed., 1995-03.
- [7] A.H.Wijethunga, J.V.Wijayakulasooriya, J.B.Ekanayaka, Narendra De Silva, "Conductor Temperature Based Low Cost Solution for Dynamic Line Rating Calculation of Power Distribution Lines," presented at the 10th Int. conf. indus. info. sys., Sri Lanka, 2015.

APPENDIX A

Solar intensity values from ASHRAE handbook 1981 fundamentals

TIME		January	February	March	April	May	June	July	August	September	October	November	December
AM	1	0	0	0	0	0	0	0	0	0	0	0	0
AM	2	0	0	0	0	0	0	0	0	0	0	0	0
AM	3	0	0	0	0	0	0	0	0	0	0	0	0
AM	4	0	0	0	0	0	0	0	0	0	0	0	0
AM	5	0	0	0	0	0	0	0	0	0	0	0	0
AM	6	0	0	0	0	3	18	27	16	0	0	0	0
AM	7	560	590	642	645	590	560	537	530	540	577	589	566
AM	8	864	876	888	866	800	753	728	725	749	805	843	855
AM	9	968	973	977	949	813	836	811	809	836	894	957	957
AM	10	1016	1020	1018	969	923	878	853	851	878	937	981	1003
AM	11	1038	1041	1037	1008	942	898	874	872	899	957	1001	1025
PM	12	835	1048	1043	1013	948	904	890	878	905	963	908	1032
PM	1	798	831	892	914	882	843	819	828	859	884	873	824
PM	2	692	722	780	806	781	748	726	734	761	780	763	716
PM	3	523	350	602	628	615	592	577	582	599	607	588	545
PM	4	298	320	367	397	398	390	382	383	388	313	358	317
PM	5	71	82	108	133	149	156	157	155	147	129	106	81
PM	6	0	0	0	0	0	0	0	0	0	0	0	0
PM	7	0	0	0	0	0	0	0	0	0	0	0	0
PM	8	0	0	0	0	0	0	0	0	0	0	0	0
PM	9	0	0	0	0	0	0	0	0	0	0	0	0
PM	10	0	0	0	0	0	0	0	0	0	0	0	0
PM	11	0	0	0	0	0	0	0	0	0	0	0	0
AM	12	0	0	0	0	0	0	0	0	0	0	0	0

