RADIAL LINES DISTRIBUTION FACTOR DETAILS

Radial 34.5 kV Lines

Count	<-------- FROM --------->	<--------- TO ---------->	CKT	Maximum Distribution Factor	Comments
1	635036 CLARINDA 34.500	635060 NEW MRKT 34.500	1	0%	Radial
2	635060 NEW MRKT 34.500	635061 BEDFORD 34.500	1	0%	Radial
3	635287 SULPJCT9 34.500	635288 SULPHRS9 34.500	1	0%	Radial
4	635288 SULPHRS9 34.500	635289 NEWELL 9 34.500	1	0%	Radial
5	636032 POM TRT9 34.500	636112 PMRY TP9 34.500	1	0%	Radial
6	636110 POMROY 9 34.500	636112 PMRY TP9 34.500	1	0%	Radial
7	636111 PALMER 9 34.500	636112 PMRY TP9 34.500	1	0%	Radial
8	636241 BUTLER 9 34.500	636242 NWHARTF9 34.500	1	0%	Radial
9	636243 SHELRCK9 34.500	636246 CLARKVL9 34.500	1	0%	Radial
10	636246 CLARKVL9 34.500	636247 ALISON 9 34.500	1	0%	Radial
		Radial 34.5 kV	avg df	0%	
		Radial 34.5 kV	Count	10	

Note: The analysis utilizes the 2010 Series MRO 2011 Summer Peak Model.
The avg df is calculated as the sum of the maximum distribution factor (df) divided by the count.

RADIAL LINES DISTRIBUTION FACTOR DETAILS

Radial 69 kV Lines

Count	<-------- FROM --------->	<--------- TO ---------->	CKT	Maximum Distribution Factor	Comments
1	635004 SUB701 8 69.000	635080 HONEYCK8 69.000	1	0%	Radial
2	635033 HASTING8 69.000	635069 MACEDON8 69.000	1	0%	Radial
3	635053 SIDNEY8 69.000	635054 THURMAN8 69.000	1	0%	Radial
4	635065 REDOAK 8 69.000	635067 HYDRCBN8 69.000	1	0%	Radial
5	635067 HYDRCBN8 69.000	635068 GRISWLD8 69.000	1	0%	Radial
6	635069 MACEDON8 69.000	635070 NOAKLND8 69.000	1	0%	Radial
7	635080 HONEYCK8 69.000	635081 MOVALLY8 69.000	1	0%	Radial
8	635081 MOVALLY8 69.000	635082 LOGAN 8 69.000	1	0%	Radial
9	635236 SALIX 8 69.000	635237 SLOAN 8 69.000	1	0%	Radial
10	635236 SALIX 8 69.000	635238 WHITING8 69.000	1	0%	Radial
11	635247 EASTSID8 69.000	635249 LAWTON8 69.000	1	0%	Radial
12	635249 LAWTON8 69.000	635250 MOVILLE8 69.000	1	0%	Radial
13	635250 MOVILLE8 69.000	635251 KINGS 8 69.000	1	0%	Radial
14	635272 MERIDEN8 69.000	635273 MARCUS 8 69.000	1	0%	Radial
15	635282 STMLK E8 69.000	635285 NEWELLJ8 69.000	1	0%	Radial
16	635285 NEWELLJ8 69.000	635290 EARLY 8 69.000	1	0%	Radial
17	635301 MONONA 8 69.000	635302 MAPLTN 8 69.000	1	0%	Radial
18	635301 MONONA 8 69.000	635303 SMITHLD8 69.000	1	0%	Radial
19	635324 WSTSIDE8 69.000	656241 WEAKLEND8 69.000	1	0%	Radial
20	635329 WSIDETP8 69.000	656241 WEAKLEND8 69.000	1	0%	Radial
21	635342 SCHALER8 69.000	635343 ODEBOLT8 69.000	1	0%	Radial
22	635343 ODEBOLT8 69.000	635344 LKVIEW 8 69.000	1	0%	Radial
23	635344 LKVIEW 8 69.000	635345 WALLLAK8 69.000	1	0%	Radial
24	635345 WALLLAK8 69.000	635346 LAKEVW 8 69.000	1	0%	Radial
25	635344 LKVIEW 8 69.000	656971 LAKEVIEW8 69.000	1	0%	Radial
26	635345 WALLLAK8 69.000	656983 SCHRODER8 69.000	1	0%	Radial
27	635361 LT SX 8 69.000	635362 GMEADOW8 69.000	1	0%	Radial
28	635362 GMEADOW8 69.000	635363 CORTNV8 69.000	1	0%	Radial
29	635363 CORTNV8 69.000	635364 HOLSTN 8 69.000	1	0%	Radial
30	635370 SHELDON8 69.000	630349 GEORGE 8 69.000	1	0%	Radial
31	635381 RKVALTT8 69.000	635382 RCKVALT8 69.000	1	0%	Radial
32	635383 INWOODT8 69.000	635384 INWOOD 8 69.000	1	0%	Radial
33	635385 HUDSON 8 69.000	635386 SXRIVER8 69.000	1	0%	Radial
34	635386 SXRIVER8 69.000	635387 ALCESTR8 69.000	1	0%	Radial
35	635390 IRETON 8 69.000	635391 IRETONT8 69.000	1	0%	Radial
36	635390 IRETON 8 69.000	635392 CRAIG 8 69.000	1	0%	Radial
37	635663 WABASH 8 69.000	635784 MASSEY 8 69.000	1	0%	Radial
38	635666 FORVER 8 69.000	635823 ADM 8 69.000	1	0%	Radial
39	635671 DMOINES8 69.000	635820 46 JEFF8 69.000	1	0%	Radial
40	635702 SYCAMOR8 69.000	635765 50AUROR8 69.000	1	0%	Loop
41	635702 SYCAMOR8 69.000	635767 86 DOUG8 69.000	1	0%	Loop
42	635750 2BRDWAY8 69.000	635751 FIRESTN8 69.000	1	0%	Radial

Note: The analysis utilizes the 2010 Series MRO 2011 Summer Peak Model.
The avg df is calculated as the sum of the maximum distribution factor (df) divided by the count.

RADIAL LINES DISTRIBUTION FACTOR DETAILS

Radial 69 kV Lines (continued)

Count	<-------- FROM --------->	<--------- TO ---------->	CKT	Maximum Distribution Factor	Comments
43	635753 17BRDWY8 69.000	635754 DM LNG 8 69.000	1	0%	Radial
44	635765 50AUROR8 69.000	635766 76 DOUG8 69.000	1	0%	Internal Loop
45	635766 76 DOUG8 69.000	635767 86 DOUG8 69.000	1	0%	Internal Loop
46	635820 46 JEFF8 69.000	635821 29 HBTP8 69.000	1	0%	Radial
47	635821 29 HBTP8 69.000	635822 29 HUBB8 69.000	1	0%	Radial
48	636026 HAYES 8 69.000	636063 SB BFD8 69.000	1	0%	Radial
49	636063 SB BFD8 69.000	636064 SB MFD8 69.000	1	0%	Radial
50	636065 K-T TAP8 69.000	636066 FRNTIER8 69.000	1	0%	Radial
51	636070 HMBLTTP8 69.000	636071 HUMBLTC8 69.000	1	0%	Radial
52	636073 RUTLNDT8 69.000	636074 RUTLNDJ8 69.000	1	0%	Radial
53	636074 RUTLNDJ8 69.000	636076 GLMRCTY8 69.000	1	0%	Radial
54	636074 RUTLNDJ8 69.000	656341 BODE 8 69.000	1	0%	Radial
55	636075 BODE 8 69.000	656341 BODE 8 69.000	1	0%	Radial
56	636091 RKWLCT+8 69.000	636092 RKWLCTN8 69.000	1	0%	Radial
57	636201 BLKHWK 8 69.000	636268 DEWAR 8 69.000	1	0%	Radial
58	636263 GLBRTTP8 69.000	636264 GLBRTVL8 69.000	1	0%	Radial
59	636268 DEWAR 8 69.000	636269 JESUP 8 69.000	1	0%	Radial
60	636304 QUARRYT8 69.000	636305 QUARYRD8 69.000	1	0%	Radial
61	636429 SANDRDT8 69.000	630351 SAND RD8 69.000	1	0%	Radial
62	636671 SB 18 8 69.000	636730 SB104-8 69.000	1	0%	Radial
63	636720 27TAP 8 69.000	636721 SB 27 8 69.000	1	0%	Radial
64	636721 SB 27 8 69.000	636723 SB103T8 69.000	1	0%	Radial
65	636723 SB103T8 69.000	636724 SB102-8 69.000	1	0%	Radial
66	636724 SB102-8 69.000	636725 SB101-8 69.000	1	0%	Radial
67	636725 SB101-8 69.000	636726 SB111-8 69.000	1	0%	Radial
68	636730 SB104-8 69.000	636731 SB108-8 69.000	1	0%	Radial
69	636731 SB108-8 69.000	636732 SB107-8 69.000	1	0%	Radial
70	636732 SB107-8 69.000	636734 SB105T8 69.000	1	0%	Radial
71	636733 SB105-8 69.000	636734 SB105T8 69.000	1	0%	Radial
72	636783 SB54TAP8 69.000	636784 SB 54 8 69.000	1	0%	Radial
		Radial 69 kV	avg df	0%	
		Radial 69 kV	Count	72	

Note: The analysis utilizes the 2010 Series MRO 2011 Summer Peak Model.
The avg df is calculated as the sum of the maximum distribution factor (df) divided by the count.

RADIAL LINES DISTRIBUTION FACTOR DETAILS

Radial 161 kV Lines

Count	<-------- FROM --------->	<--------- TO ---------->	CKT	Maximum Distribution Factor	Comments
1	635037 BROOKS 5 161.00	635038 BROOKST5 161.00	1	0%	Radial
2	635601 GRIMES 5 161.00	635608 LINWELD5 161.00	1	0%	Radial
3	636616 SB 56 5 161.00	636626 IPSCO 5 161.00	1	0%	Radial
4	636660 SB 31T 5 161.00	636661 SB 31 5 161.00	1	0%	Radial
5	636675 SB 85 5 161.00	636676 SB 52 5 161.00	1	0%	Radial
6	636675 SB 85 5 161.00	636677 SB 53 5 161.00	1	0%	Radial
		Radial 161 kV	avg df	0%	
		Radial 161 kV	Count	6	

Note: The analysis utilizes the 2010 Series MRO 2011 Summer Peak Model.
The avg df is calculated as the sum of the maximum distribution factor (df) divided by the count.

RADIAL LINES DISTRIBUTION FACTOR DETAILS

Radial 345 kV Lines

Count	<-------- FROM --------->	<--------- TO ---------->	CKT	Maximum Distribution Factor	Comments
1	636620 WALCOTT3 345.00	636625 IPSCO 3 345.00	1	0%	Radial
		Radial 345 kV	avg df	0%	
		Radial 345 kV	Count	1	

Note: The analysis utilizes the 2010 Series MRO 2011 Summer Peak Model.
The avg df is calculated as the sum of the maximum distribution factor (df) divided by the count.