Pooled table (Posters pooled within locations)
Response = $O_{i,j}$
Deviance = L_P,
degrees of freedom = $DF_P = (2-1) \times (2-1) = 1$

Response	Ethiopia	Malawi
Yes	$O_{1,1}+O_{1,2}+O_{1,3}+O_{1,4}+O_{1,5}$	$O_{1,6}+O_{1,7}+O_{1,8}+O_{1,9}+O_{1,10}$
No	$O_{2,1}+O_{2,2}+O_{2,3}+O_{2,4}+O_{2,5}$	$O_{2,6}+O_{2,7}+O_{2,8}+O_{2,9}+O_{2,10}$

Full table
Response = $O_{i,j}$
Deviance = L_F,
degrees of freedom = $DF_F = (2-1) \times (10-1) = 9$

	Ethiopia					Malawi				
Response	Poster 1	Poster 2	Poster 3	Poster 4a	Poster 4b	Poster 1	Poster 2	Poster 3	Poster 4a	Poster 4b
Yes	$O_{1,1}$	$O_{1,2}$	$O_{1,3}$	$O_{1,4}$	$O_{1,5}$	$O_{1,6}$	$O_{1,7}$	$O_{1,8}$	$O_{1,9}$	$O_{1,10}$
No	$O_{2,1}$	$O_{2,2}$	$O_{2,3}$	$O_{2,4}$	$O_{2,5}$	$O_{2,6}$	$O_{2,7}$	$O_{2,8}$	$O_{2,9}$	$O_{2,10}$

Subtable 1 (Ethiopia responses only)
Response = $O_{i,j}$
Deviance = L_{S1},
degrees of freedom = $DF_{S1} = (2-1) \times (5-1) = 4$

Subtable 1 (Malawi responses only)
Response = $O_{i,j}$
Deviance = L_{S2},
degrees of freedom = $DF_{S2} = (2-1) \times (5-1) = 4$

	Ethiopia				
Response	Poster 1	Poster 2	Poster 3	Poster 4a	Poster 4b
Yes	$O_{1,6}$	$O_{1,7}$	$O_{1,8}$	$O_{1,9}$	$O_{1,10}$
No	$O_{2,6}$	$O_{2,7}$	$O_{2,8}$	$O_{2,9}$	$O_{2,10}$

	Malawi				
Response	Poster 1	Poster 2	Poster 3	Poster 4a	Poster 4b
Yes	$O_{1,6}$	$O_{1,7}$	$O_{1,8}$	$O_{1,9}$	$O_{1,10}$
No	$O_{2,6}$	$O_{2,7}$	$O_{2,8}$	$O_{2,9}$	$O_{2,10}$

Degrees of freedom partition: $DF_F = DF_P + DF_{S1} + DF_{S2}$

Deviance partitions: $L_F = L_P + L_{S1} + L_{S2}$