Table 4. Structural and retrostructural analysis of the $\Phi_{r\text{-}s}$ and $\Phi_{r\text{-}c}$ lattices self-organized from (4-3,4-3,5)nG2-CH_2OH, n = 2-8

n	T, °C	d_{11}, Å	d_{20}, Å	d_{31}, Å	d_{22}, Å	a, Å	b, Å	D_a, Å	D_b, Å	ρ_{20}, [**] g/cm^3	μ (dendrons/ stratum)	α', [§§] °
2	65	32.8[*]	29.5[*]	17.3[*]	16.3[*]	58.9[‡]	39.1[‡]	58.9[¶]	39.1[¶]	1.12	7.9[††]	45.4
4	85	36.3[†]		27.7[†]	20.2[†]	122.0[§]	38.1[§]	70.4[‖]	93.5[‖]	1.12	7.3[‡‡]	50.5
6	90		38.3[†]	21.9[†]	18.9[†]	79.0[§]	43.8[§]	45.6[‖]	43.8[‖]	1.12	4.8[‡‡]	75.2
8	110		42.6[†]	24.1[†]	20.8[†]	79.3[§]	47.1[§]	45.8[‖]	47.1[‖]	1.1	4.6[‡‡]	77.9

[*] d-spacings of $p2mm$ rectangular simple columnar lattice ($\Phi_{r\text{-}s}$).

[†] d-spacings of $c2mm$ rectangular centered columnar lattice ($\Phi_{r\text{-}c}$).

[‡] $p2mm$ rectangular simple columnar lattice parameters a and b, a = hd, b = kd, (h0) and (k0) from diffractions.

[§] $c2mm$ rectangular centered columnar lattice parameters a and b, a = hd, b = kd, (h0) and (k0) from diffractions.

[¶] Experimental elliptical column diameters of $p2mm$ simple rectangular columnar lattice $D_a = a$ and $D_b = b$.

[‖] Experimental elliptical column diameters of $c2mm$ centered rectangular columnar lattice $D_a = a/\sqrt{3}$ and D_b = b.

[**] ρ_{20} = experimental density at 20 °C.

[††] Number of monodendrons per elliptical $p2mm$ simple rectangular column stratum $\mu = (N_A abt\rho)/M$.

[‡‡] Number of monodendrons per elliptical $c2mm$ centered rectangular column stratum $\mu = (N_A abt\rho)/2M$. Avogadro's number $N_A = 6.0220455\times10^{23}$ mol^{-1}. The average height of the column stratum t = 4.7 Å, M = molecular weight of monodendron.

[§§] Projection of the solid angle for tapered monodendron $\alpha' = 360/\mu$ (deg).