Equal 9 step grey scaling between L^*_{0aN}=−71 & L^*_{0aW}=71.5, Y_{0ref}=200, normalisation white *W*

L^*_{0aN}=−71.4, L^*_{0aU}=0.0, L^*_{0aW}=71.5, Y_{0aN}=2.0, Y_{0aU}=20.0, Y_{0aW}=200.0, C_{0aY}=Y_{0aW}:Y_{0aN}=100.0

L^*_{taN}=50.3, L^*_{taU}=53.0, L^*_{taW}=71.5, Y_{taN}=101.0, Y_{taU}=110.0, Y_{taW}=200.0, C_{taY}=Y_{taW}:Y_{taN}=2.0

Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps

g = 100 [ΔL^*_{min}] / [ΔL^*_{max}], $L^*_{TUBLOG,Ua}$ = 50 / log(5) [log (Y/Y_u)] with Y_u=20*

$L^*_{TUBLOG,Ua}$	intended output					real output					linearized output	
	n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	$(L^*tr)^{1/2.75}$	L*la	ΔL*la
							g^*_5= 5, g^*_9= 3				g^*_5= 64, g^*_9= 44	
70	9	71.5	1.0	200.0	1.0	71.5		1.0	200.0	1.0	71.5	
							7.7					3.2
	8	53.6	0.875	112.5	0.558	63.9		0.638	156.2	0.849	68.3	
							5.3					3.0
35	7	35.8	0.75	63.2	0.309	58.5		0.388	131.6	0.708	65.3	
							3.4					2.7
	6	17.9	0.625	35.6	0.169	55.1		0.225	117.8	0.581	62.6	
							2.1					2.4
0	5	0.0	0.5	20.0	0.091	53.0		0.125	110.0	0.469	60.3	
							1.3					2.1
	4	−17.8	0.375	11.2	0.047	51.7		0.065	105.6	0.371	58.2	
							0.7					1.9
−35	3	−35.7	0.25	6.3	0.022	51.0		0.031	103.2	0.283	56.3	
							0.4					1.8
	2	−53.6	0.125	3.5	0.008	50.5		0.011	101.8	0.196	54.5	
							0.2					4.1
−70	1	−71.4	0.0	2.0	0.0	50.3		0.0	101.0	0.0	50.3	

ΔL^*_{0a}=17.9 (i=1,2,...,8)

normalisation: $Y_{taiW}=Y_{0aW}\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$