Equal 9 step grey scaling between $L^*_{0aN}=3.6$ and $L^*_{0aW}=95.9$, $Y_{0ref}=10.0$, normalisation grey U

$L^*_{0aN}=3.6$, $L^*_{0aU}=49.8$, $L^*_{0aW}=96.0$, $Y_{0aN}=0.4$, $Y_{0aU}=18.2$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}{:}Y_{0aN}=225.0$

$L^*_{taN}=31.2$, $L^*_{taU}=49.8$, $L^*_{taW}=84.3$, $Y_{taN}=6.7$, $Y_{taU}=18.2$, $Y_{taW}=64.6$, $C_{taY}=Y_{taW}{:}Y_{taN}=9.6$

Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps
$g^* = 100\,[\Delta L^*_{min}]/[\Delta L^*_{max}]$, $L^*_{CIELAB} = 116\,[Y/Y_n]^{1/3} - 16$ with $Y \geq 0{,}882$, $Y_n=100$

$g^*_5 = 99$, $g^*_9 = 99$ $g^*_5 = 33$, $g^*_9 = 24$ $g^*_5 = 92$, $g^*_9 = 88$

L^*_{CIELAB} n0. i	intended output L^*0a	L^*0r	$Y0a$	$Y0r$	real output L^*ta	ΔL^*ta	L^*tr	Yta	$(L^*tr)^{1/1.52}$	linearized output L^*la	ΔL^*la
9	96.0	1.0	90.0	1.0	84.3		1.0	64.6	1.0	84.3	
						9.2					6.3
8	84.4	0.875	64.9	0.72	75.1		0.827	48.4	0.882	78.0	
						8.9					6.5
7	72.9	0.75	45.0	0.498	66.2		0.659	35.5	0.759	71.5	
						8.5					6.7
6	61.3	0.625	29.6	0.326	57.7		0.499	25.6	0.632	64.7	
						7.9					7.0
5	49.8	0.5	18.2	0.199	49.8		0.351	18.2	0.501	57.8	
						6.9					7.0
4	38.2	0.375	10.2	0.11	42.9		0.22	13.1	0.369	50.7	
						5.6					6.8
3	26.7	0.25	5.0	0.051	37.3		0.115	9.7	0.24	43.9	
						3.9					6.2
2	15.1	0.125	1.9	0.017	33.4		0.042	7.7	0.123	37.7	
						2.2					6.5
1	3.6	0.0	0.4	0.0	31.2		0.0	6.7	0.0	31.2	

L^*_{CIELAB} scale: 100, 75, 50, 25, 0

$\Delta L^*_{0a}=11.5$ (i=1,2,...,8)   normalisation: $Y_{taiU}=Y_{0aU}\dfrac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

eeq30–7n