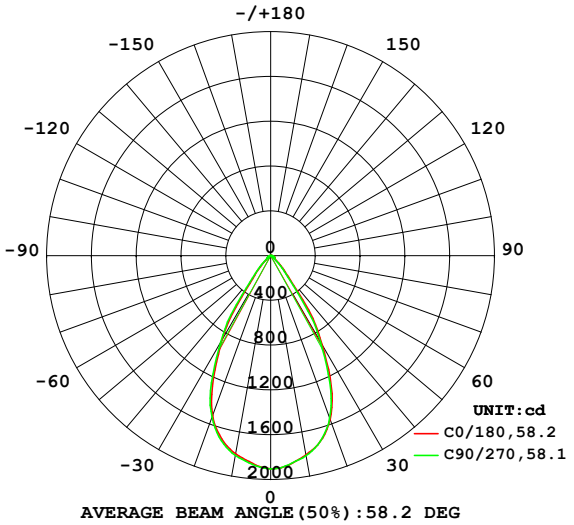
Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm		
NAME: HCP-10X2501-3000K RA90 60D WHITE	TYPE:	WEIGHT:
SPEC.: 25W	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.: 55mm	Shielding Angle:

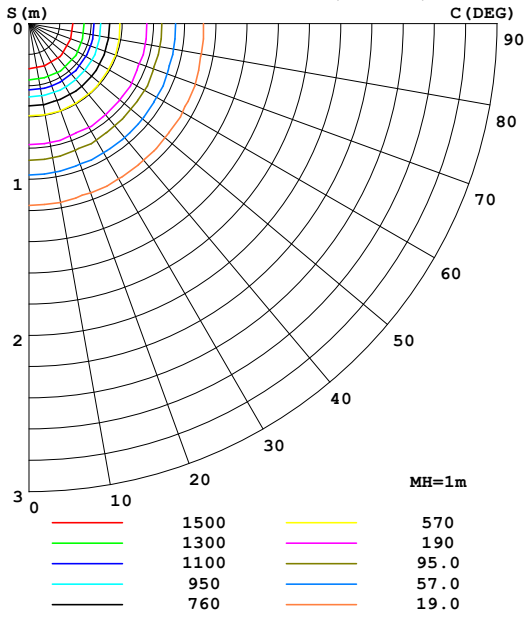
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 69.91 lm/W	
MODEL		Imax(cd)	1904	S/MH(C0/180)	0.87
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	0.88
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1718.7	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	1718.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240.09	η down(%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):58.2 DEG

PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1808	1816	1814	1814	1798	1806	1811	1813	0- 10	176.7	176.7	10.3,10.3
20	1556	1571	1544	1534	1518	1516	1536	1556	10- 20	477.7	654.4	38.1,38.1
30	922.7	932.0	893.4	875.9	870.5	877.6	892.9	905.2	20- 30	564.6	1219	70.9,70.9
40	245.2	231.7	215.7	202.6	205.0	214.4	230.0	226.9	30- 40	325.2	1544	89.8,89.8
50	58.17	54.43	48.01	44.51	44.27	46.77	53.57	56.46	40- 50	92.13	1636	95.2,95.2
60	33.63	33.15	31.62	30.70	30.98	32.01	32.99	33.49	50- 60	33.73	1670	97.2,97.2
70	23.29	22.54	21.13	20.44	20.77	21.81	23.04	23.45	60- 70	27.47	1698	98.8,98.8
80	10.47	9.855	8.935	8.519	8.770	9.510	10.43	10.68	70- 80	16.66	1714	99.7,99.7
90	0.0877	0.0831	0.0976	0.0886	0.0992	0.0930	0.0902	0.0844	80- 90	4.528	1719	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1604.9 lm

%lum = 93.4%
%lamp = 93.4%

Conical surface Flux(120deg): 1670 lm

%lum = 97.2%
%lamp = 97.2%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

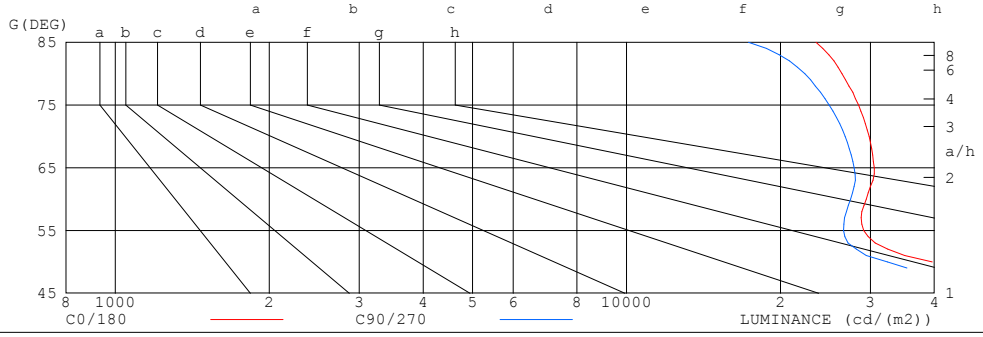
Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

LUMINANCE LIMITATION CURVES

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz **UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm**		
NAME: HCP-10X2501-3000K RA90 60D WHITE	**TYPE:**	**WEIGHT:**
SPEC.: 25W	**DIM.:**	**SERIAL No.:**
MFR.: Havit Commercial	**SUR.: 55mm**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	23487	17325
80	26404	22312
75	28424	24894
70	29829	26787
65	30514	27879
60	29455	27420
55	29126	26569
50	39635	32389
45	82443	67643

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

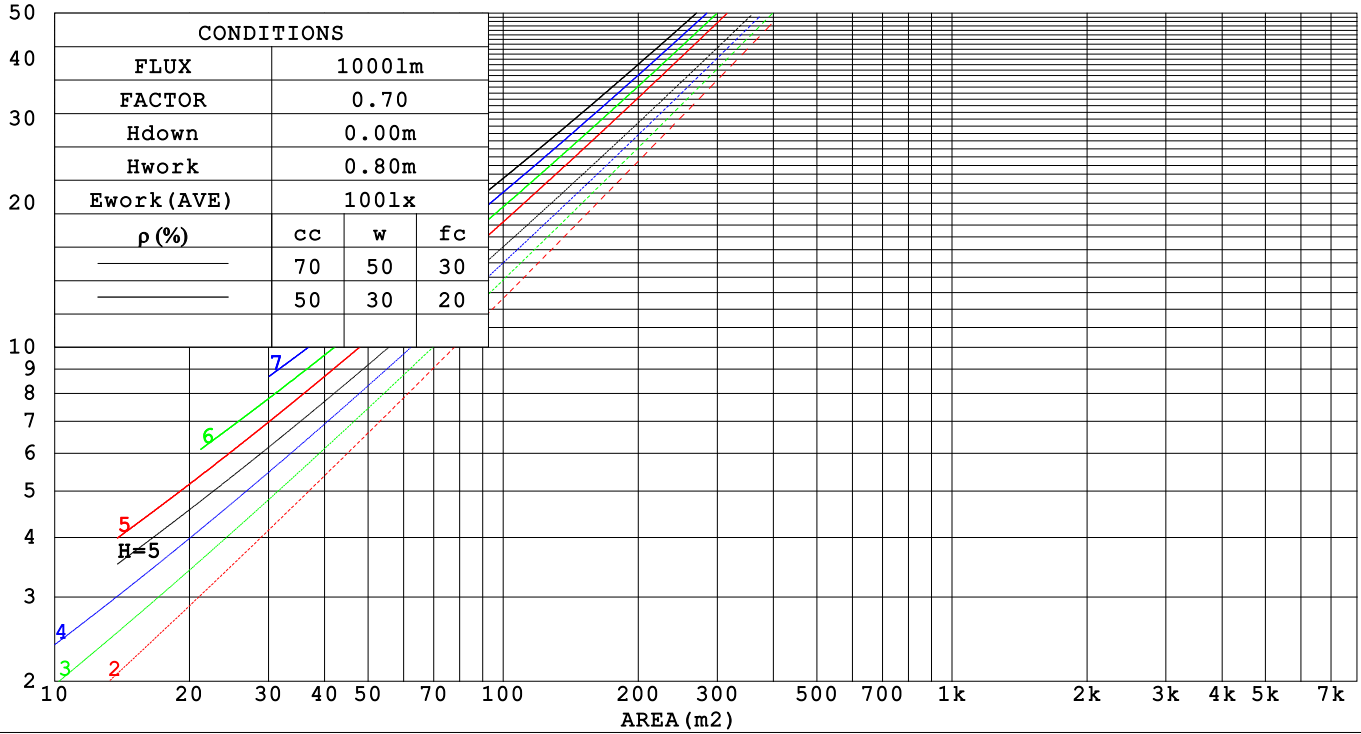
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm		
NAME: HCP-10X2501-3000K RA90 60D WHITE	TYPE:	WEIGHT:
SPEC.: 25W	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.: 55mm	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2.0	1.02	.98	.94	1.00	.97	.93	.97	.94	.91	.94	.92	.89	.91	.89	.87	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.82	.86	.83	.81	.79
4.0	.89	.83	.79	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.72	.67	.63	.71	.66	.62	.70	.65	.62	.69	.65	.61	.60
8.0	.69	.63	.59	.68	.63	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.65	.59	.55	.64	.58	.55	.63	.58	.55	.62	.58	.54	.53
10.0	.62	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.51	.59	.54	.51	.50

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

WEC AND CCEC

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz **UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm**		
NAME: HCP-10X2501-3000K RA90 60D WHITE	**TYPE:**	**WEIGHT:**
SPEC.: 25W	**DIM.:**	**SERIAL No.:**
MFR.: Havit Commercial	**SUR.: 55mm**	**Shielding Angle:**

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.189	.107	.034	.182	.104	.033	.169	.097	.031	.158	.091	.029	.147	.085	.027	
2.0	.179	.098	.030	.174	.096	.029	.163	.091	.028	.153	.086	.027	.144	.081	.026	
3.0	.170	.090	.027	.165	.088	.027	.156	.084	.026	.147	.081	.025	.140	.077	.024	
4.0	.161	.084	.025	.157	.082	.024	.149	.079	.024	.141	.076	.023	.135	.073	.022	
5.0	.153	.078	.023	.149	.076	.022	.142	.074	.022	.136	.072	.021	.130	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	.125	.066	.020	
7.0	.138	.068	.019	.135	.067	.019	.130	.066	.019	.125	.064	.019	.120	.062	.018	
8.0	.132	.064	.018	.129	.064	.018	.125	.062	.018	.120	.061	.018	.116	.059	.017	
9.0	.126	.061	.017	.124	.060	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016	
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

UGR(Unified Glare Rating) Table

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm		
NAME: HCP-10X2501-3000K RA90 60D WHITE	TYPE:	WEIGHT:
SPEC.: 25W	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.: 55mm	Shielding Angle:

ceiling/cavity		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H	y = 2H	23.9	24.9	24.1	25.1	25.2	23.6	24.6	23.8	24.7	24.9
	3H	24.1	25.1	24.4	25.3	25.5	23.8	24.7	24.1	24.9	25.1
	4H	24.3	25.2	24.6	25.4	25.6	23.9	24.8	24.2	25.0	25.2
	6H	24.4	25.2	24.7	25.5	25.7	24.0	24.8	24.3	25.1	25.3
	8H	24.5	25.2	24.8	25.5	25.7	24.0	24.8	24.4	25.1	25.3
	12H	24.5	25.2	24.8	25.5	25.8	24.0	24.8	24.4	25.1	25.3
4H	2H	23.8	24.7	24.1	24.9	25.1	23.5	24.4	23.8	24.6	24.8
	3H	24.2	25.0	24.5	25.2	25.5	23.9	24.6	24.2	24.9	25.2
	4H	24.5	25.1	24.8	25.4	25.7	24.1	24.8	24.5	25.1	25.4
	6H	24.7	25.3	25.1	25.6	26.0	24.3	24.9	24.7	25.2	25.6
	8H	24.8	25.3	25.2	25.7	26.0	24.4	24.9	24.8	25.3	25.6
	12H	24.8	25.3	25.2	25.7	26.1	24.4	24.9	24.8	25.3	25.6
8H	4H	24.5	25.0	24.9	25.4	25.8	24.2	24.7	24.6	25.1	25.4
	6H	24.8	25.3	25.2	25.7	26.1	24.4	24.9	24.9	25.3	25.7
	8H	24.9	25.3	25.4	25.8	26.2	24.5	24.9	25.0	25.4	25.8
	12H	25.0	25.4	25.5	25.8	26.3	24.6	24.9	25.1	25.4	25.9
12H	4H	24.5	25.0	24.9	25.3	25.7	24.1	24.6	24.6	25.0	25.4
	6H	24.8	25.2	25.3	25.6	26.1	24.4	24.8	24.9	25.3	25.7
	8H	25.0	25.3	25.4	25.7	26.2	24.6	24.9	25.0	25.4	25.8

Variations with the observer position at spacings(CIE Pub.117):

S = 1.0H	+ 2.0 / - 1.9	+ 1.6 / - 1.8
1.5H	+ 3.7 / - 1.9	+ 3.1 / - 1.9
2.0H	+ 2.4 / - 0.7	+ 1.9 / - 0.6

CIE Pub.117, 1719 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.9)
Area: 0.0023 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

UTILIZATION FACTORS TABLE

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm		
NAME: HCP-10X2501-3000K RA90 60D WHITE	TYPE:	WEIGHT:
SPEC.: 25W	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.: 55mm	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	98	92	88	97	91	87	95	91	87	83
1.25	102	96	92	101	96	92	99	94	91	87
1.50	105	99	96	103	99	95	101	97	94	90
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	97
5.00	115	112	110	112	110	109	108	107	105	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

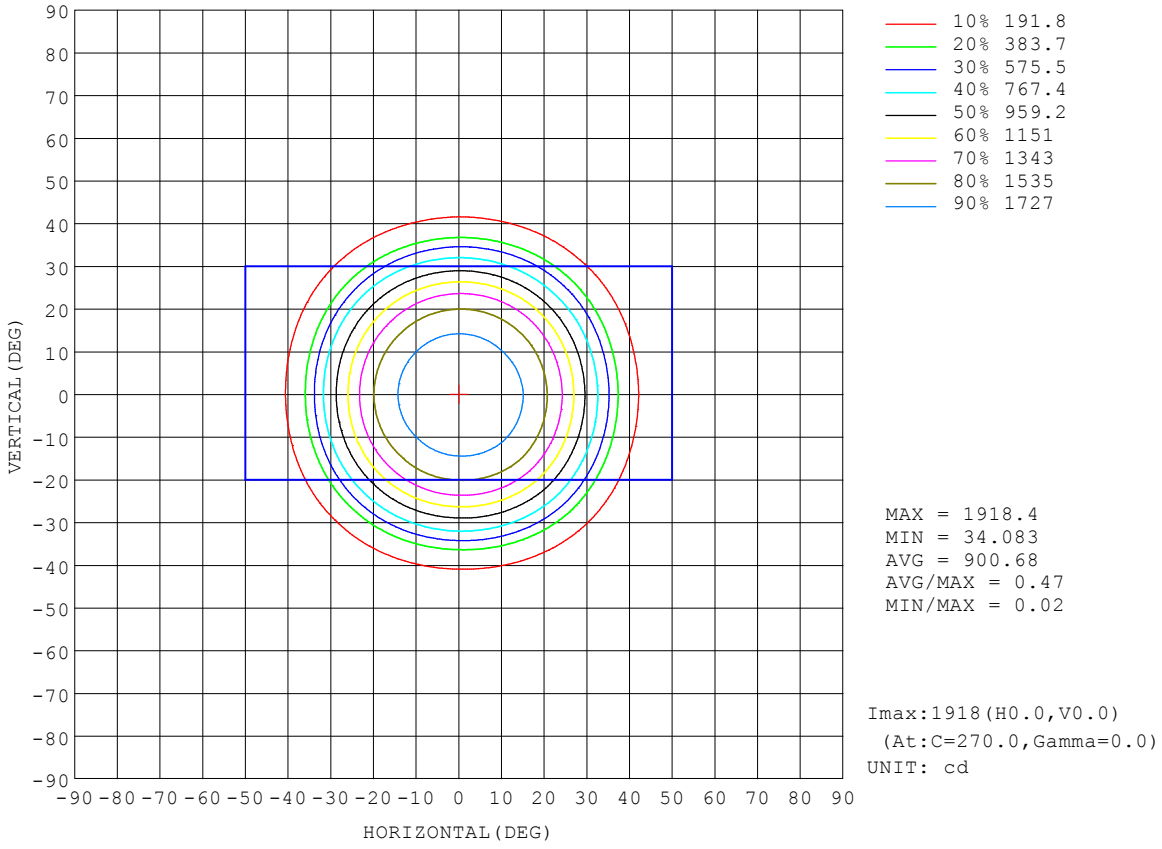
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

ISOCANDELA DIAGRAM

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz **UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm**		
NAME: HCP-10X2501-3000K RA90 60D WHITE	**TYPE:**	**WEIGHT:**
SPEC.: 25W	**DIM.:**	**SERIAL No.:**
MFR.: Havit Commercial	**SUR.: 55mm**	**Shielding Angle:**



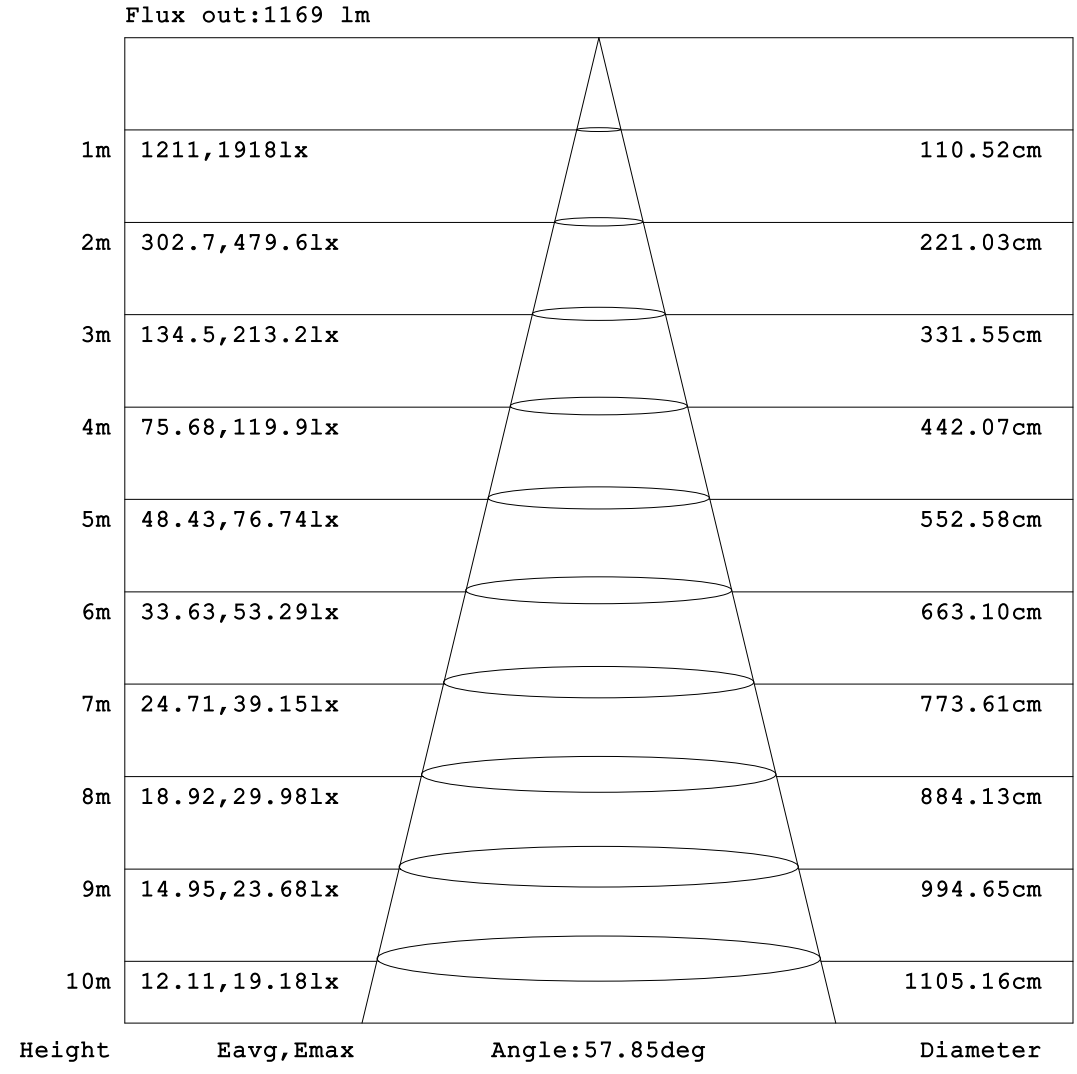
C Range: 0 - 360DEG
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

AAI Figure

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz **UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm**		
NAME: HCP-10X2501-3000K RA90 60D WHITE	**TYPE:**	**WEIGHT:**
SPEC.: 25W	**DIM.:**	**SERIAL No.:**
MFR.: Havit Commercial	**SUR.: 55mm**	**Shielding Angle:**



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

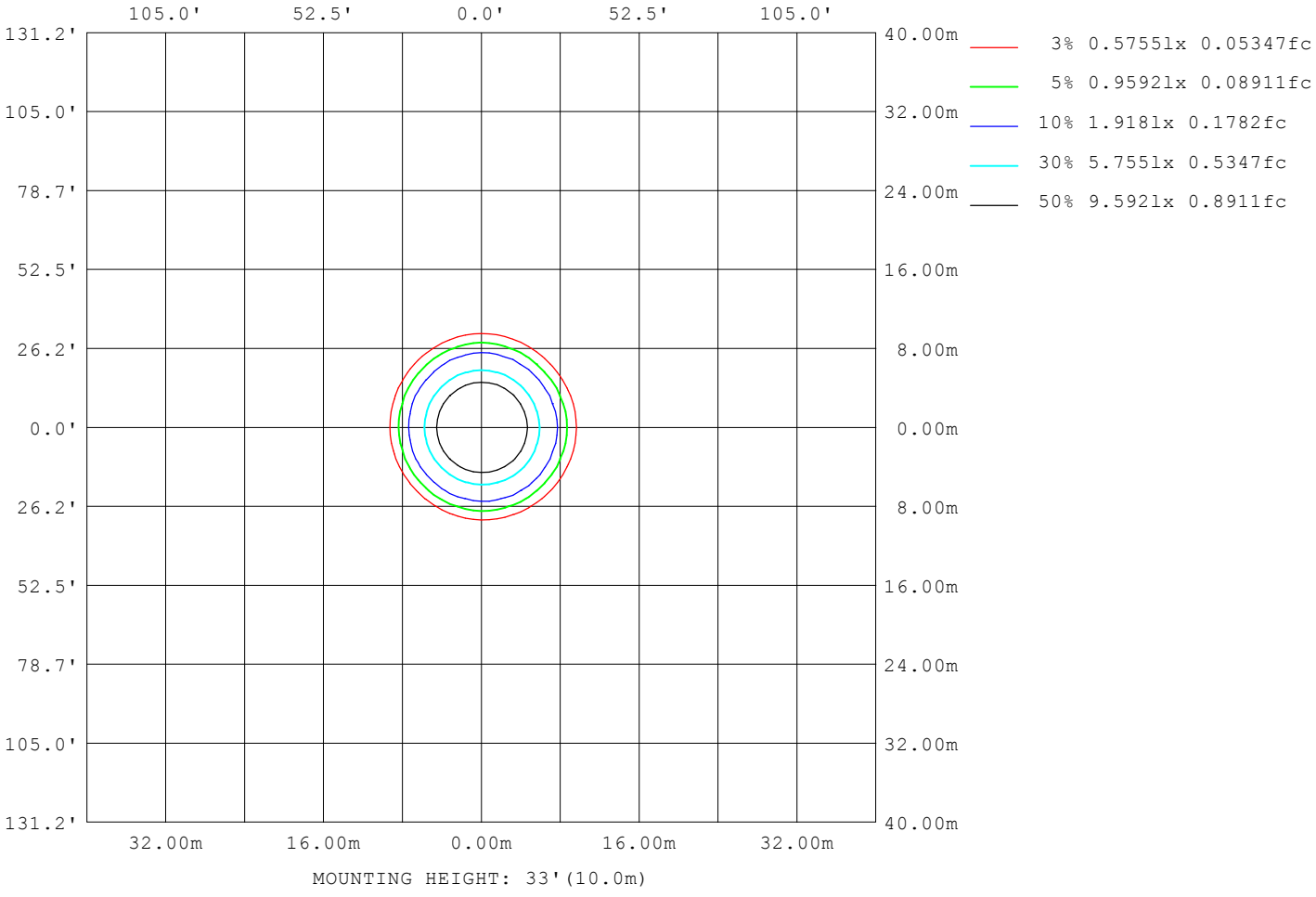
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-22

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

ISOLUX DIAGRAM

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz **UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm**		
NAME: HCP-10X2501-3000K RA90 60D WHITE	**TYPE:**	**WEIGHT:**
SPEC.: 25W	**DIM.:**	**SERIAL No.:**
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C Range: 0 - 360DEG
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LED Avg.L Report

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NAME: HCP-10X2501-3000K RA90 60D WHITE	**TYPE:**	**WEIGHT:**
SPEC.: 25W	**DIM.:**	**SERIAL No.:**
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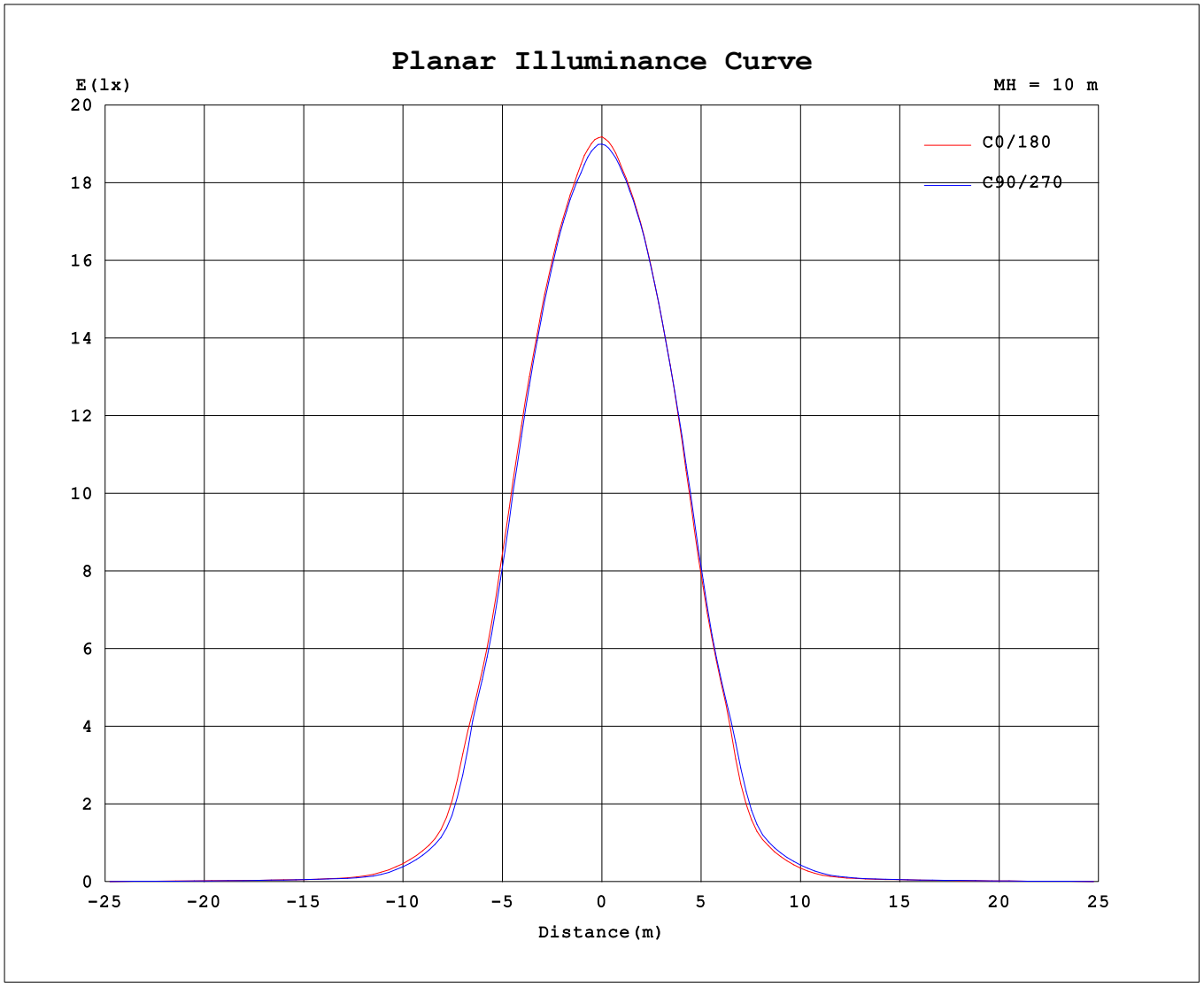
AvgL	cd/m2
L_0~180(65)av	28833
L_0~180(75)av	26435
L_0~180(85)av	19787
L_90~270(65)av	28874
L_90~270(75)av	26501
L_90~270(85)av	20049
L_45(65)av	28873
L_45(75)av	26482
L_45(85)av	19869

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
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Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.2V I:0.1043A P:24.6W PF:0.9816 Freq:49.99Hz UTHDi:0.27% ITHDi:7.35% KDisp:0.9876 Lamp Flux:1718.7x1 lm		
NAME: HCP-10X2501-3000K RA90 60D WHITE	TYPE:	WEIGHT:
SPEC.: 25W	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.: 55mm	Shielding Angle:

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	45	90	135	180	225	270	315
0	1904	1904	1904	1904	1904	1904	1904	1904
5	1878	1878	1873	1871	1864	1867	1873	1877
10	1808	1816	1814	1814	1798	1806	1811	1813
15	1717	1726	1717	1712	1693	1697	1710	1721
20	1556	1571	1544	1534	1518	1516	1536	1556
25	1284	1291	1252	1234	1211	1219	1254	1278
30	923	932	893	876	870	878	893	905
35	595	574	502	462	455	487	534	559
40	245	232	216	203	205	214	230	227
45	133	123	110	99.3	100.0	108	123	123
50	58.2	54.4	48.0	44.5	44.3	46.8	53.6	56.5
55	38.1	37.6	35.1	34.1	34.2	35.3	37.1	37.7
60	33.6	33.2	31.6	30.7	31.0	32.0	33.0	33.5
65	29.4	28.7	27.2	26.3	26.6	27.7	29.0	29.5
70	23.3	22.5	21.1	20.4	20.8	21.8	23.0	23.5
75	16.8	16.1	14.9	14.4	14.7	15.6	16.7	17.0
80	10.5	9.86	8.93	8.52	8.77	9.51	10.4	10.7
85	4.67	4.19	3.48	3.14	3.26	3.81	4.56	4.80
90	0.09	0.08	0.10	0.09	0.10	0.09	0.09	0.08

C Range: 0 - 360DEG
C Interval: 45.0DEG
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γ Interval: 1.0DEG
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Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Photometric Filename: HCP-10X2501-3000K RA90 60D WHITE

Photometric Data Table [cd]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	1904	1904	1904	1904	1904	1904	1904	1904
3.0	1895	1895	1894	1891	1887	1887	1891	1894
6.0	1864	1866	1860	1860	1850	1855	1861	1867
9.0	1823	1830	1829	1825	1813	1820	1825	1826
12.0	1778	1786	1783	1780	1764	1769	1779	1781
15.0	1717	1726	1717	1712	1693	1697	1710	1721
18.0	1629	1640	1625	1616	1600	1600	1616	1630
21.0	1513	1527	1497	1487	1467	1468	1490	1514
24.0	1349	1358	1324	1306	1282	1290	1321	1349
27.0	1141	1144	1104	1089	1068	1081	1104	1137
30.0	922.7	932.0	893.4	875.9	870.5	877.6	892.9	905.2
33.0	737.6	738.9	704.8	673.1	656.9	679.4	708.4	709.5
36.0	494.2	476.9	413.6	380.9	375.5	401.2	440.9	460.2
39.0	284.2	268.2	244.5	233.7	230.0	242.1	260.2	260.7
42.0	194.2	180.7	168.7	155.1	158.3	167.0	183.0	179.1
45.0	133.1	122.7	110.3	99.32	99.95	108.2	122.8	123.4
48.0	83.41	75.74	64.61	57.95	57.30	61.72	74.45	79.60
51.0	50.28	48.69	42.76	40.67	40.40	42.55	47.62	48.89
54.0	39.85	39.04	36.26	35.01	35.09	36.51	38.49	39.40
57.0	35.78	35.25	33.53	32.61	32.92	33.86	35.06	35.55
60.0	33.63	33.15	31.62	30.70	30.98	32.01	32.99	33.49
63.0	31.44	30.89	29.36	28.41	28.72	29.86	30.90	31.36
66.0	28.24	27.53	25.98	25.20	25.47	26.59	27.83	28.30
69.0	24.56	23.78	22.35	21.66	21.96	23.03	24.28	24.69
72.0	20.69	19.95	18.62	18.02	18.33	19.33	20.54	20.92
75.0	16.80	16.09	14.86	14.38	14.68	15.57	16.69	17.03
78.0	12.94	12.30	11.22	10.82	11.09	11.89	12.89	13.19
81.0	9.266	8.672	7.789	7.395	7.624	8.343	9.203	9.471
84.0	5.778	5.272	4.529	4.171	4.338	4.927	5.684	5.935
87.0	2.527	2.095	1.461	1.074	1.098	1.568	2.280	2.561
90.0	0.0877	0.0831	0.0976	0.0886	0.0992	0.0930	0.0902	0.0844

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