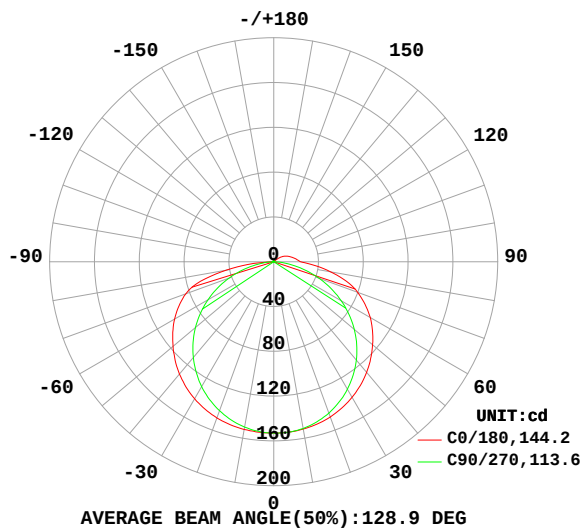


LUMINAIRE PHOTOMETRIC TEST REPORT

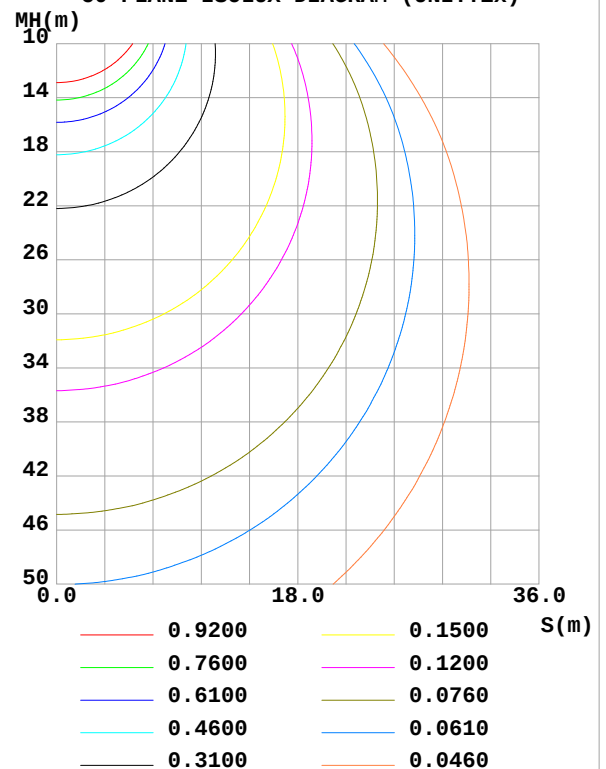
Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm		
NAME: SL-ID-30K-LP-24	TYPE:	WEIGHT: KG
SPEC.: 5W	DIM.: 1000*10*2(MM)	SERIAL No.: 01
MFR.: HANECO	SUR.: 1000*10(MM)	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.59 lm/W			
MODEL	LED	Imax(cd)	153.2	S/MH(C0/180)	1.38
NOMINAL POWER(W)	5.1	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	549.95	η UP, DN(C0-180)	2.0, 48.6
NOMINAL FLUX(lm)	549.952	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.4, 48.0
LAMPS INSIDE	1	η up(%)	3.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	96.6	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 26 August 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 10.460m [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	151.7	151.5	151.2	151.8	152.1	150.8	149.9	150.7	0- 10	14.52	14.52	2.64, 2.64
20	147.5	146.0	143.9	146.5	148.4	145.0	141.6	144.5	10- 20	42.04	56.57	10.3, 10.3
30	139.8	136.5	131.4	137.1	141.3	135.4	128.8	134.5	20- 30	65.06	121.6	22.1, 22.1
40	129.0	123.5	114.7	124.3	130.9	122.5	111.7	121.3	30- 40	81.01	202.6	36.8, 36.8
50	115.2	107.4	93.92	108.0	117.5	106.4	91.23	105.1	40- 50	88.26	290.9	52.9, 52.9
60	99.47	88.90	69.49	89.27	102.3	88.31	67.77	86.85	50- 60	86.31	377.2	68.6, 68.6
70	79.80	68.59	42.90	69.55	83.57	69.51	42.26	67.21	60- 70	75.79	453.0	82.4, 82.4
80	51.28	43.98	16.58	36.64	42.62	42.60	16.34	44.15	70- 80	55.89	508.9	92.5, 92.5
90	24.06	16.54	0.2043	0.3929	0.3045	0.2713	0.4646	16.33	80- 90	22.54	531.4	96.6, 96.6
100	18.74	11.86	0.1968	0.4217	0.4606	0.4108	0.3447	11.36	90-100	6.926	538.3	97.9, 97.9
110	14.25	8.108	0.3524	0.4506	0.5840	0.5666	0.5249	7.113	100-110	4.878	543.2	98.8, 98.8
120	9.775	2.520	0.5163	0.5738	0.7156	0.7062	0.6891	2.085	110-120	3.054	546.3	99.3, 99.3
130	2.525	0.8011	0.6641	0.7049	0.8718	0.8458	0.8369	0.9185	120-130	1.427	547.7	99.6, 99.6
140	1.001	0.8621	0.8116	0.8522	0.9788	0.9690	0.9763	1.049	130-140	0.6975	548.4	99.7, 99.7
150	1.061	0.9851	0.9348	0.9426	1.069	1.084	1.109	1.148	140-150	0.6209	549.0	99.8, 99.8
160	1.135	1.067	1.042	1.041	1.168	1.161	1.154	1.175	150-160	0.5014	549.5	99.9, 99.9
170	1.189	1.141	1.124	1.125	1.225	1.197	1.165	1.178	160-170	0.3254	549.8	100, 100
180	1.217	1.166	1.165	1.156	1.233	1.182	1.173	1.180	170-180	0.1121	550.0	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 246.44 lm

%lum = 44.8%

%lamp = 44.8%

Conical surface Flux(130deg): 416.93 lm

%lum = 75.8%

%lamp = 75.8%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:26 August 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:10.460m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz
Lamp Flux:549.952x1 lm

NAME: SL-ID-30K-LP-24

TYPE:

WEIGHT: KG

SPEC.: 5W

DIM.: 1000*10*2(MM)

SERIAL No.: 01

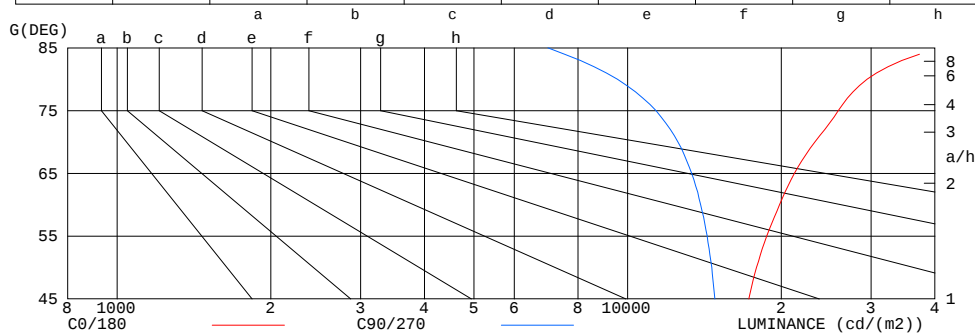
MFR.: HANECO

SUR.: 1000*10(MM)

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



LUMINANCE cd/(m2)

G (DEG)	C0/180	C90/270
85	41432	6983
80	29471	9552
75	25871	11370
70	23283	12550
65	21227	13351
60	19853	13905
55	18731	14322
50	17889	14620
45	17274	14826

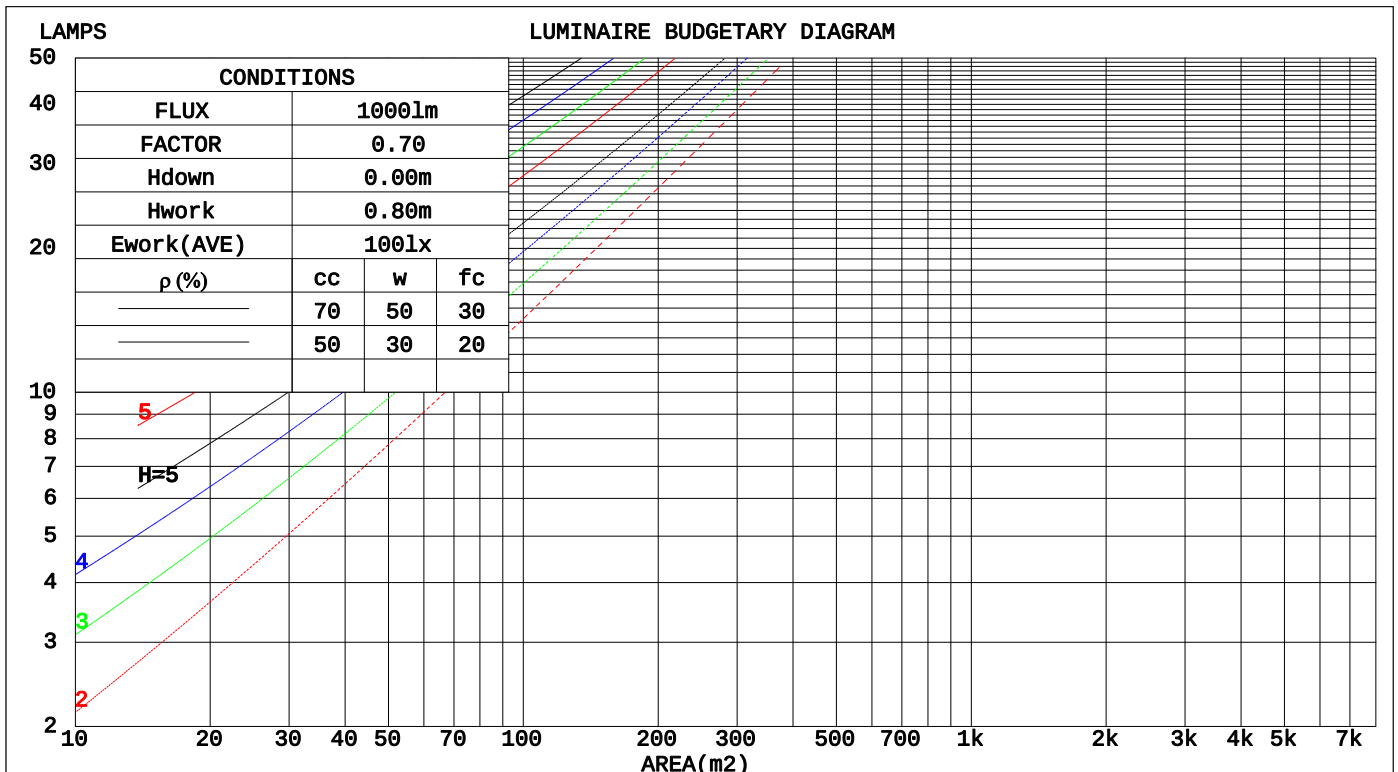
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 26 August 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 10.460m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm		
NAME: SL-ID-30K-LP-24	TYPE:	WEIGHT: KG
SPEC.: 5W	DIM.: 1000*10*2(MM)	SERIAL No.: 01
MFR.: HANECO	SUR.: 1000*10(MM)	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.01	.96	.91	.98	.94	.89	.93	.89	.86	.89	.86	.83	.84	.82	.80	.77
2.0	.86	.79	.72	.84	.77	.71	.80	.74	.69	.76	.71	.67	.73	.69	.65	.62
3.0	.75	.66	.59	.73	.65	.58	.70	.63	.57	.66	.60	.55	.63	.58	.54	.51
4.0	.66	.57	.49	.64	.56	.49	.61	.54	.48	.59	.52	.47	.56	.50	.46	.43
5.0	.59	.49	.42	.57	.48	.42	.55	.47	.41	.52	.45	.40	.50	.44	.39	.37
6.0	.52	.43	.36	.51	.42	.36	.49	.41	.35	.47	.40	.35	.45	.39	.34	.32
7.0	.47	.38	.32	.46	.38	.32	.45	.37	.31	.43	.36	.31	.41	.35	.30	.28
8.0	.43	.34	.28	.42	.34	.28	.41	.33	.28	.39	.32	.27	.38	.31	.27	.25
9.0	.39	.31	.25	.39	.31	.25	.37	.30	.25	.36	.29	.24	.35	.29	.24	.22
10.0	.36	.28	.23	.36	.28	.23	.34	.27	.22	.33	.27	.22	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:26 August 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:10.460m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm																	
NAME: SL-ID-30K-LP-24									TYPE:			WEIGHT: KG					
SPEC.: 5W									DIM.: 1000*10*2(MM)			SERIAL No.: 01					
MFR.: HANECO									SUR.: 1000*10(MM)			Shielding Angle:					

ρ_{CC}	80%			70%			50%			30%			10%			0														
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fC}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.355	.202	.064	.347	.198	.063	.332	.190	.061	.317	.183	.059	.304	.176	.057															
2.0	.323	.177	.054	.315	.174	.053	.301	.168	.052	.289	.162	.051	.277	.157	.049															
3.0	.292	.156	.047	.286	.153	.046	.274	.148	.045	.262	.144	.044	.252	.139	.043															
4.0	.266	.138	.041	.260	.136	.040	.249	.132	.039	.239	.128	.039	.230	.125	.038															
5.0	.243	.124	.036	.238	.122	.036	.228	.119	.035	.219	.116	.034	.211	.113	.034															
6.0	.224	.112	.032	.219	.111	.032	.210	.108	.031	.202	.105	.031	.195	.102	.030															
7.0	.207	.102	.029	.203	.101	.029	.195	.099	.028	.188	.096	.028	.181	.094	.028															
8.0	.192	.094	.026	.189	.093	.026	.181	.091	.026	.175	.089	.026	.168	.087	.025															
9.0	.179	.087	.024	.176	.086	.024	.170	.084	.024	.164	.082	.023	.158	.080	.023															
10.0	.168	.081	.022	.165	.080	.022	.159	.078	.022	.154	.076	.022	.149	.075	.021															

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fC}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.216	.216	.216	.185	.185	.185	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.209	.182	.157	.179	.156	.135	.123	.107	.093	.071	.062	.054	.023	.020	.018	
2.0	.202	.158	.120	.173	.136	.104	.119	.094	.073	.069	.055	.043	.022	.018	.014	
3.0	.195	.141	.097	.167	.121	.084	.115	.084	.059	.066	.049	.035	.021	.016	.011	
4.0	.187	.128	.082	.161	.110	.071	.111	.077	.050	.064	.045	.030	.021	.015	.010	
5.0	.180	.118	.072	.154	.102	.062	.106	.071	.044	.062	.042	.026	.020	.014	.009	
6.0	.172	.109	.064	.148	.095	.056	.102	.066	.040	.059	.039	.024	.019	.013	.008	
7.0	.165	.102	.059	.142	.089	.051	.098	.062	.036	.057	.037	.022	.018	.012	.007	
8.0	.158	.097	.054	.136	.084	.047	.094	.059	.034	.055	.035	.020	.018	.011	.007	
9.0	.152	.092	.051	.131	.080	.045	.091	.056	.032	.053	.033	.019	.017	.011	.006	
10.0	.146	.088	.049	.126	.076	.042	.087	.053	.030	.051	.032	.018	.017	.010	.006	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:26 August 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:10.460m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm										
NAME: SL-ID-30K-LP-24					TYPE:			WEIGHT: KG		
SPEC.: 5W					DIM.: 1000*10*2(MM)			SERIAL No.: 01		
MFR.: HANECO					SUR.: 1000*10(MM)			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	25.0	26.6	25.4	26.9	27.1	23.1	24.7	23.4	24.9	25.2
3H	27.4	28.8	27.7	29.1	29.5	24.5	25.9	24.8	26.2	26.6
4H	28.6	30.0	28.9	30.3	30.6	25.0	26.4	25.4	26.7	27.0
6H	29.6	31.0	30.0	31.3	31.7	25.3	26.6	25.7	26.9	27.3
8H	30.1	31.4	30.5	31.8	32.1	25.3	26.6	25.7	27.0	27.3
12H	30.7	31.9	31.1	32.2	32.6	25.3	26.6	25.7	26.9	27.3
4H 2H	25.6	26.9	25.9	27.3	27.6	24.1	25.5	24.5	25.8	26.2
3H	28.1	29.3	28.5	29.7	30.1	25.7	27.0	26.2	27.3	27.7
4H	29.5	30.6	29.9	31.0	31.4	26.4	27.5	26.8	27.9	28.3
6H	30.7	31.7	31.2	32.1	32.6	26.9	27.9	27.3	28.3	28.7
8H	31.3	32.2	31.8	32.7	33.1	27.0	27.9	27.4	28.3	28.8
12H	31.9	32.8	32.4	33.2	33.7	27.0	27.9	27.5	28.3	28.8
8H 4H	29.7	30.6	30.2	31.1	31.5	27.1	28.1	27.6	28.5	29.0
6H	31.1	31.9	31.6	32.4	32.9	27.8	28.6	28.3	29.1	29.6
8H	31.9	32.6	32.4	33.1	33.6	28.1	28.8	28.6	29.3	29.8
12H	32.6	33.2	33.2	33.7	34.3	28.2	28.8	28.8	29.4	29.9
12H 4H	29.7	30.6	30.2	31.0	31.5	27.3	28.2	27.8	28.6	29.1
6H	31.2	31.9	31.7	32.4	32.9	28.1	28.8	28.6	29.3	29.8
8H	32.0	32.6	32.5	33.1	33.7	28.5	29.1	29.0	29.6	30.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.4				

CIE Pub.117, 550.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.1)
 Area: 0.01 m2

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:26 August 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488

Humidity:65.0%

Test Distance:10.460m [K=1.0000]

Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm		
NAME: SL-ID-30K-LP-24	TYPE:	WEIGHT: KG
SPEC.: 5W	DIM.: 1000*10*2(MM)	SERIAL No.: 01
MFR.: HANECO	SUR.: 1000*10(MM)	Shielding Angle:

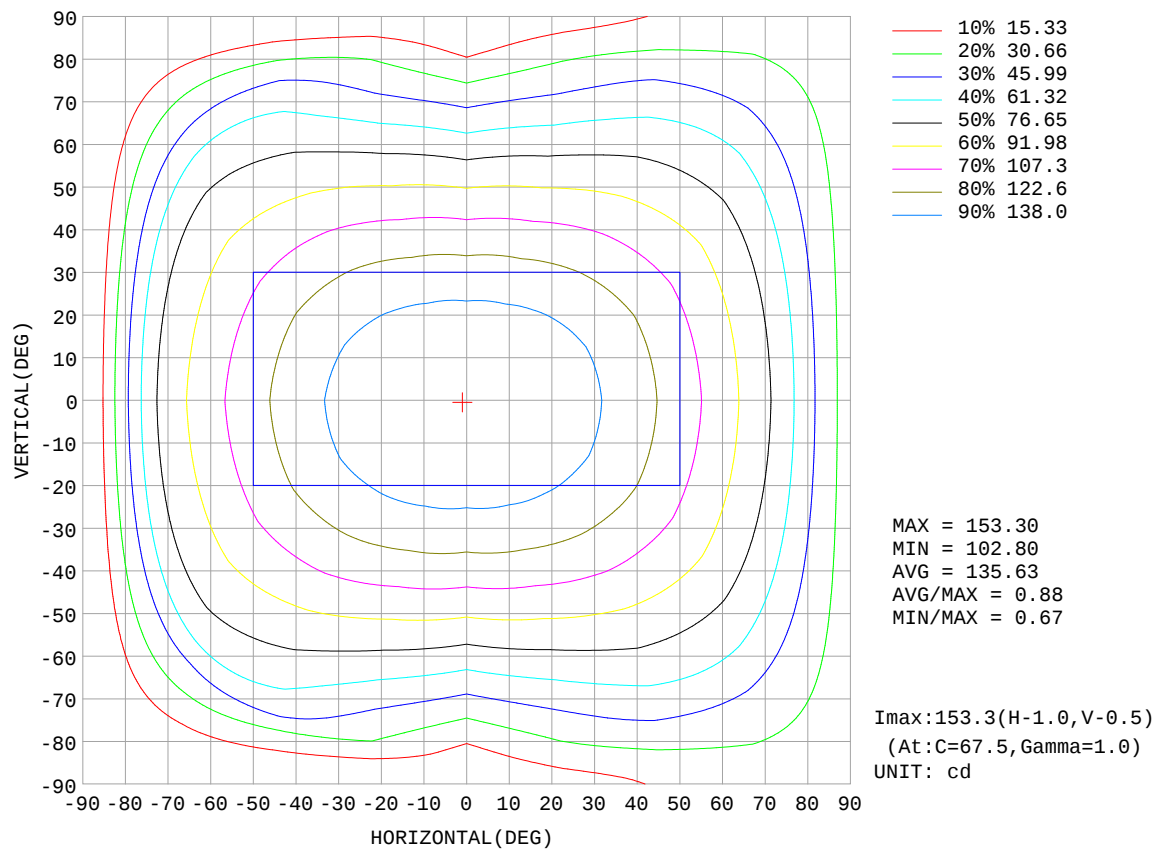
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	33	27
0.80	63	50	42	62	50	42	60	49	42	34
1.00	71	59	51	70	58	51	67	60	50	42
1.25	78	66	58	76	66	58	73	64	57	49
1.50	83	72	64	81	71	64	78	69	62	54
2.00	91	81	73	88	79	72	84	77	71	62
2.50	95	86	79	93	84	78	88	81	76	66
3.00	99	91	84	96	89	83	91	85	80	71
4.00	103	96	91	100	94	89	95	90	86	76
5.00	106	100	95	103	98	93	98	94	90	79
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:26 August 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:10.460m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm		
NAME: SL-ID-30K-LP-24	TYPE:	WEIGHT: KG
SPEC.: 5W	DIM.: 1000*10*2(MM)	SERIAL No.: 01
MFR.: HANECO	SUR.: 1000*10(MM)	Shielding Angle:

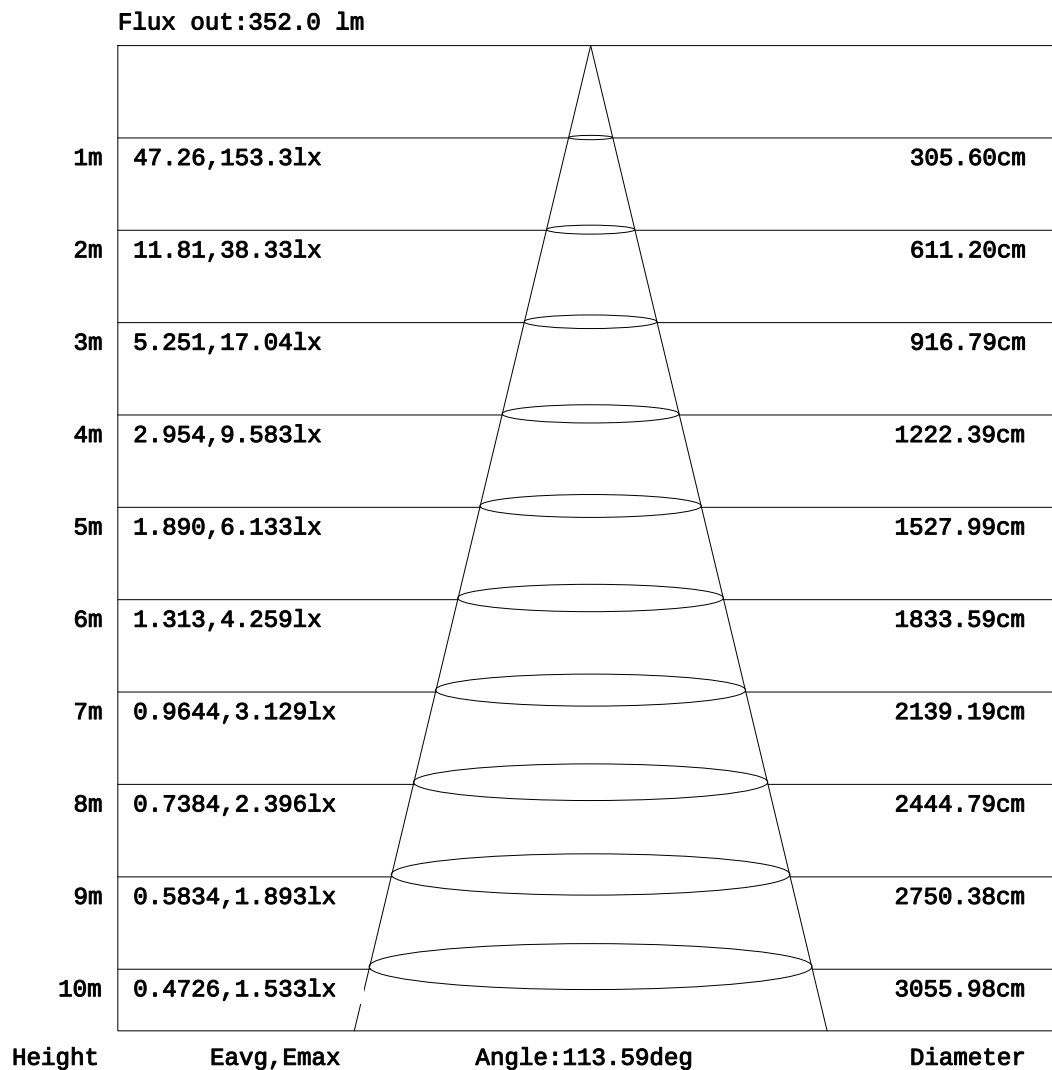


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:26 August 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:10.460m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm		
NAME: SL-ID-30K-LP-24	TYPE:	WEIGHT: KG
SPEC.: 5W	DIM.: 1000*10*2(MM)	SERIAL No.: 01
MFR.: HANECO	SUR.: 1000*10(MM)	Shielding Angle:



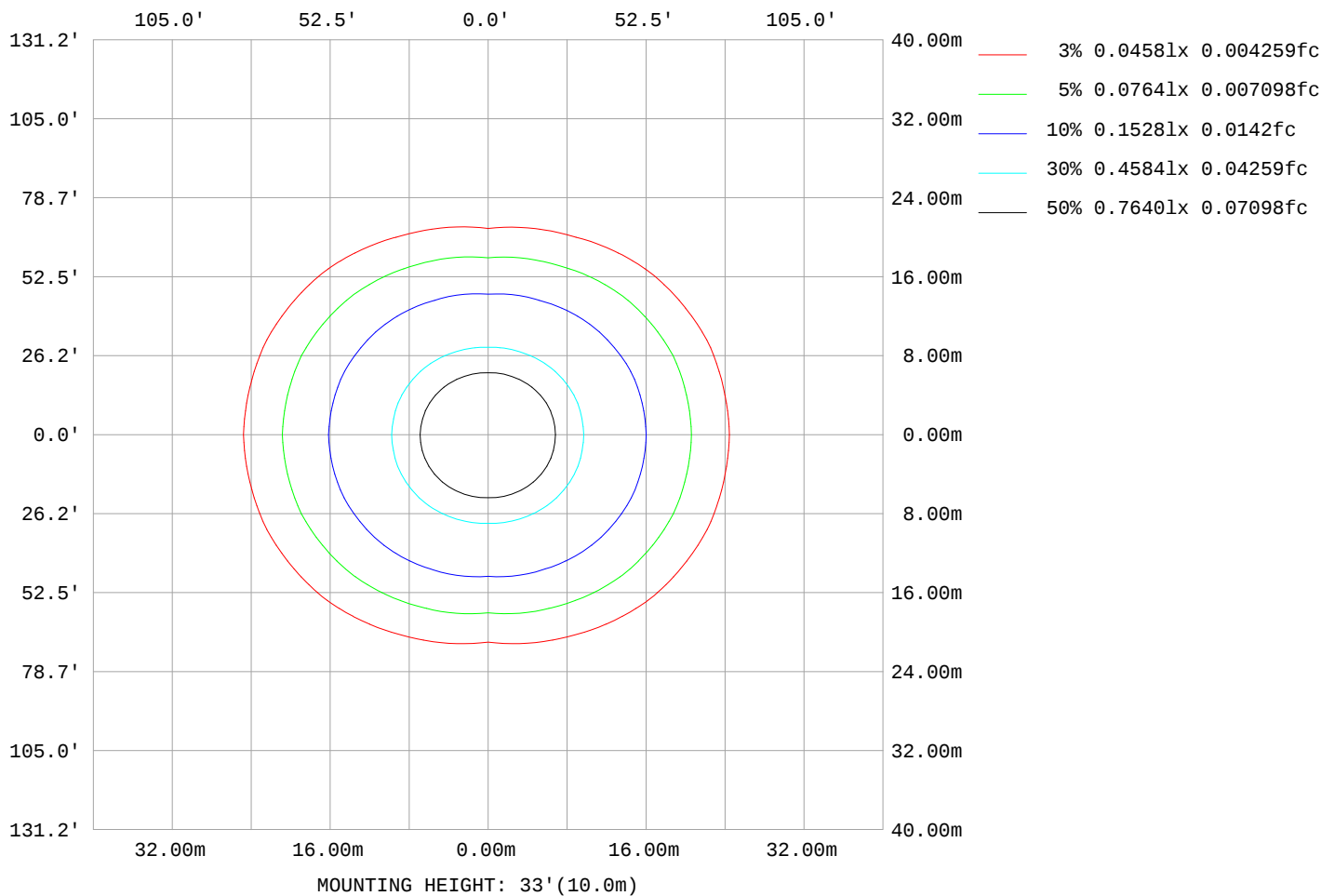
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:26 August 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:10.460m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm		
NAME: SL-ID-30K-LP-24	TYPE:	WEIGHT: KG
SPEC.: 5W	DIM.: 1000*10*2(MM)	SERIAL No.: 01
MFR.: HANECO	SUR.: 1000*10(MM)	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:26 August 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:10.460m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm		
NAME: SL-ID-30K-LP-24	TYPE:	WEIGHT: KG
SPEC.: 5W	DIM.: 1000*10*2(MM)	SERIAL No.: 01
MFR.: HANECO	SUR.: 1000*10(MM)	Shielding Angle:

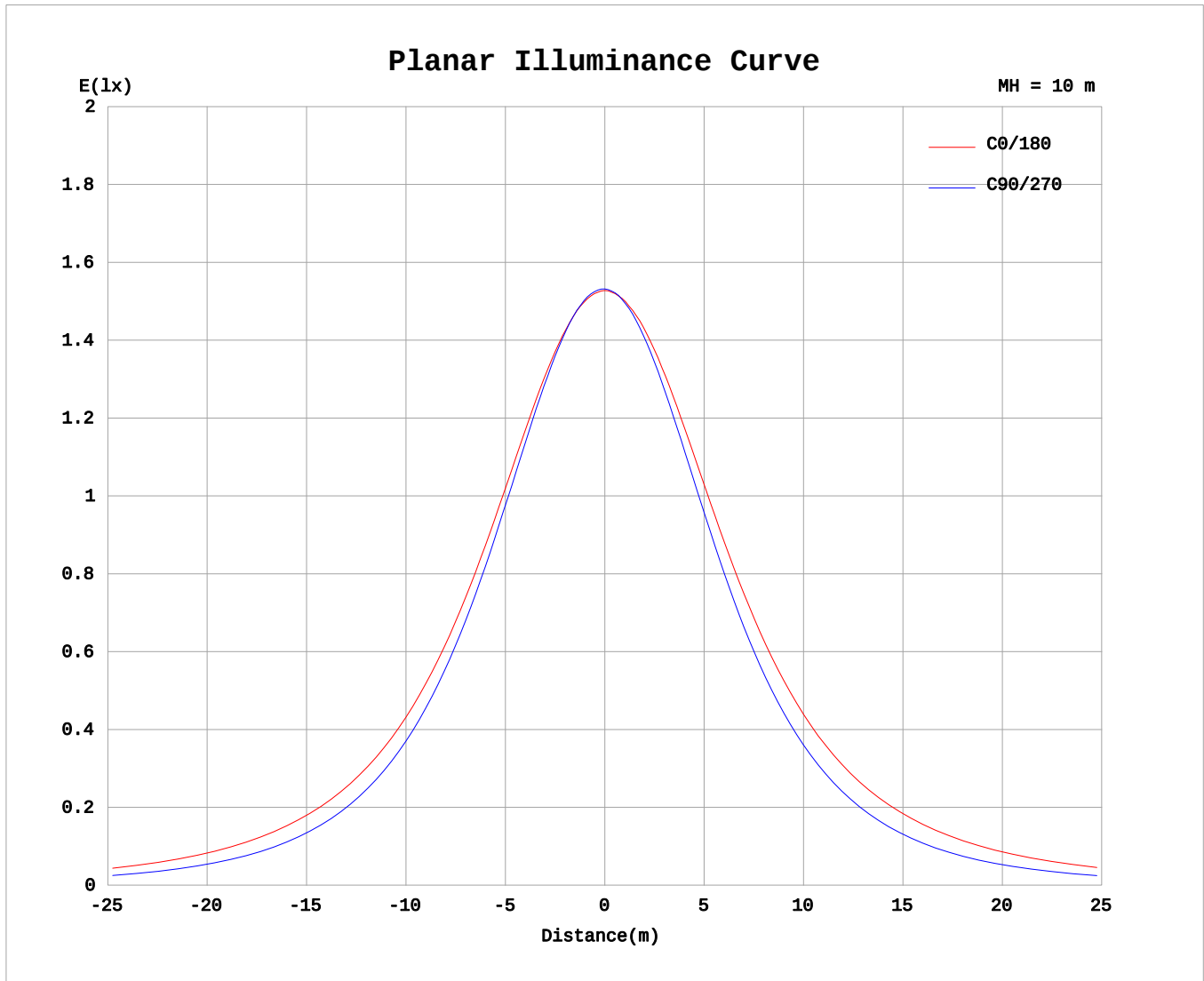
AvgL	cd/m2
L_0~180(65)av	21688
L_0~180(75)av	26057
L_0~180(85)av	30992
L_90~270(65)av	13216
L_90~270(75)av	11292
L_90~270(85)av	6871
L_45(65)av	18641
L_45(75)av	22370
L_45(85)av	25881

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:26 August 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:10.460m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 26 August 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.488
 Humidity: 65.0%
 Test Distance: 10.460m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.2130A P:5.1116W PF:1.0000 Freq:0Hz Lamp Flux:549.952x1 lm																		
NAME: SL-ID-30K-LP-24									TYPE:					WEIGHT: KG				
SPEC.: 5W									DIM.: 1000*10*2(MM)					SERIAL No.: 01				
MFR.: HANECO									SUR.: 1000*10(MM)					Shielding Angle:				

Table--1

UNIT: cd

C(°) \ γ (°)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153			
5	153	153	153	153	153	153	153	153	153	153	152	152	152	152	152	153			
10	152	152	151	151	151	151	152	152	152	152	151	150	150	150	151	151			
15	150	150	149	149	148	148	150	150	151	150	148	147	146	147	148	149			
20	147	147	146	145	144	145	147	148	148	147	145	143	142	142	145	147			
25	144	144	142	140	138	140	142	144	145	144	141	137	136	137	140	143			
30	140	139	137	133	131	134	137	140	141	139	135	131	129	130	135	138			
35	135	134	130	126	124	126	131	135	137	134	129	124	121	123	128	133			
40	129	128	124	118	115	118	124	129	131	128	122	115	112	115	121	127			
45	122	121	116	109	105	109	116	122	124	121	115	107	102	106	114	120			
50	115	114	107	99.0	93.9	99.2	108	115	117	114	106	96.9	91.2	95.9	105	113			
55	108	106	98.4	88.7	82.1	88.8	98.9	107	110	106	97.6	86.9	79.8	85.6	96.3	105			
60	99.5	97.2	88.9	77.7	69.5	77.9	89.3	98.4	102	98.2	88.3	76.3	67.8	75.0	86.8	96.4			
65	89.9	87.7	79.1	66.4	56.4	66.4	79.6	89.3	93.4	89.4	79.1	65.0	55.3	63.9	77.3	87.0			
70	79.8	77.3	68.6	55.0	42.9	54.6	69.5	79.4	83.6	79.8	69.5	53.2	42.3	52.9	67.2	76.9			
75	67.1	65.6	57.5	43.6	29.4	43.1	58.7	65.0	67.8	66.3	58.8	42.5	29.0	41.9	56.6	65.6			
80	51.3	49.9	44.0	32.3	16.6	32.1	36.6	37.6	42.6	43.2	42.6	31.9	16.3	31.1	44.2	50.3			
85	36.2	34.7	28.7	19.7	6.08	11.5	13.0	11.1	17.8	19.8	19.5	18.1	5.89	19.5	29.0	35.2			
90	24.1	22.3	16.5	8.02	0.20	0.23	0.39	0.39	0.30	0.35	0.27	0.30	0.46	7.61	16.3	22.4			
95	21.2	19.4	13.9	5.73	0.20	0.28	0.41	0.41	0.38	0.32	0.35	0.27	0.26	5.42	13.4	19.2			
100	18.7	17.0	11.9	3.82	0.20	0.32	0.42	0.45	0.46	0.37	0.41	0.28	0.34	4.13	11.4	16.8			
105	16.4	14.8	9.95	2.44	0.28	0.37	0.44	0.52	0.52	0.45	0.49	0.36	0.43	2.50	9.35	14.7			
110	14.2	12.7	8.11	0.56	0.35	0.45	0.45	0.57	0.58	0.52	0.57	0.43	0.52	0.60	7.11	12.1			
115	12.1	10.6	5.88	0.57	0.43	0.52	0.51	0.63	0.66	0.59	0.63	0.51	0.60	0.58	4.92	9.80			
120	9.78	8.21	2.52	0.62	0.52	0.60	0.57	0.70	0.72	0.66	0.71	0.58	0.69	0.63	2.09	7.87			
125	6.44	4.56	0.81	0.71	0.58	0.66	0.64	0.77	0.80	0.72	0.78	0.66	0.76	0.73	0.84	4.08			
130	2.52	1.31	0.80	0.77	0.66	0.75	0.70	0.83	0.87	0.80	0.85	0.75	0.84	0.80	0.92	1.27			
135	1.00	0.98	0.84	0.83	0.73	0.80	0.76	0.89	0.94	0.87	0.90	0.82	0.90	0.88	0.99	0.98			
140	1.00	1.04	0.86	0.90	0.81	0.88	0.85	0.95	0.98	0.91	0.97	0.89	0.98	0.95	1.05	0.99			
145	1.03	1.09	0.93	0.97	0.86	0.94	0.89	1.00	1.03	0.98	1.03	0.95	1.06	1.00	1.11	1.02			
150	1.06	1.13	0.99	1.03	0.93	0.99	0.94	1.04	1.07	1.01	1.08	1.00	1.11	1.05	1.15	1.07			
155	1.10	1.18	1.03	1.08	0.98	1.06	0.99	1.09	1.11	1.07	1.12	1.05	1.15	1.10	1.17	1.11			
160	1.13	1.21	1.07	1.13	1.04	1.11	1.04	1.13	1.17	1.10	1.16	1.10	1.15	1.12	1.17	1.13			
165	1.18	1.21	1.11	1.14	1.09	1.15	1.09	1.15	1.20	1.13	1.19	1.13	1.16	1.15	1.18	1.16			
170	1.19	1.22	1.14	1.15	1.12	1.16	1.12	1.15	1.23	1.16	1.20	1.16	1.17	1.17	1.18	1.17			
175	1.20	1.22	1.16	1.16	1.16	1.16	1.14	1.15	1.23	1.18	1.20	1.17	1.17	1.18	1.18	1.18			
180	1.22	1.22	1.17	1.17	1.16	1.16	1.16	1.16	1.23	1.20	1.18	1.17	1.17	1.18	1.18	1.18			

C Range: 0 - 360DEG

C Interval: 22.5DEG

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