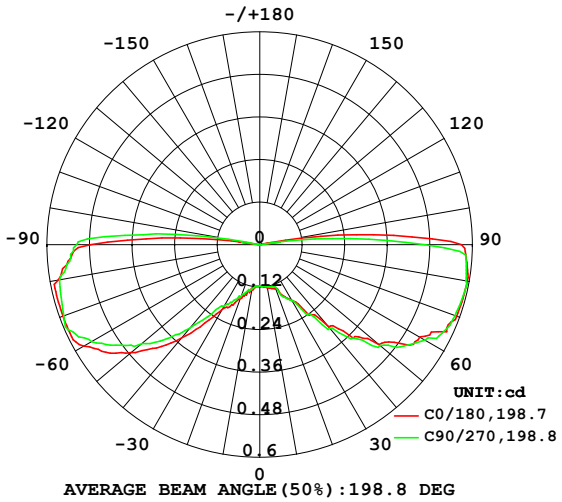
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

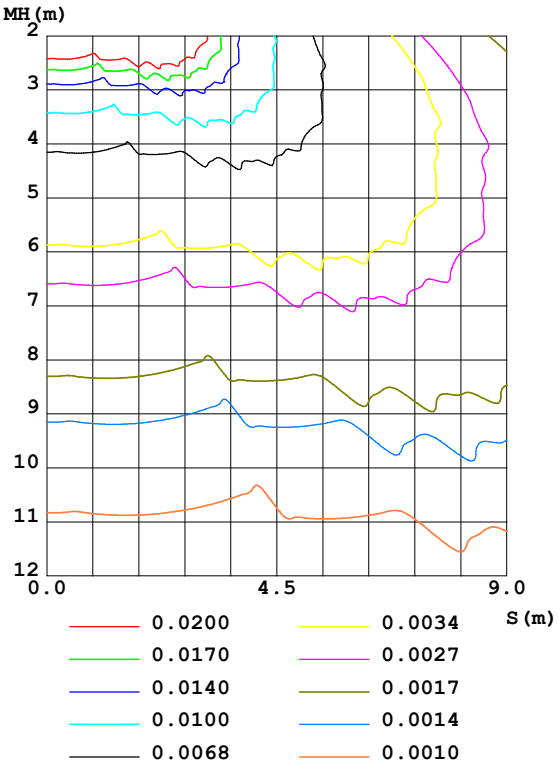
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 1.16 lm/W	
MODEL	HCP-271106 4000K	Imax(cd)	0.6775	S/MH(C0/180)	3.59
NOMINAL POWER(W)	2.5W	LOR(%)	100.0	S/MH(C90/270)	3.59
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	3.1354	η UP,DN(C0-180)	3.9,46.0
NOMINAL FLUX(lm)	3.13537	CIE CLASS	DIRECT	η UP,DN(C180-360)	5.5,44.6
LAMPS INSIDE	1	η up(%)	9.4	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	23.997	η down(%)	90.6	CIBSE SHR MAX	2.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):198.8 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	0.1236	0.1148	0.1208	0.1252	0.1259	0.1255	0.1273	0.1288	0- 10	0.0116	0.0116	0.37,0.37
20	0.1327	0.1258	0.1259	0.1366	0.1607	0.1546	0.1564	0.1607	10- 20	0.0386	0.0502	1.6,1.6
30	0.1823	0.1823	0.1828	0.1957	0.2086	0.1955	0.1998	0.2129	20- 30	0.0801	0.1304	4.16,4.16
40	0.3036	0.3039	0.3084	0.3084	0.3433	0.2999	0.3085	0.3085	30- 40	0.1547	0.2851	9.09,9.09
50	0.4382	0.4384	0.4430	0.4385	0.4736	0.4432	0.4346	0.4474	40- 50	0.2929	0.5780	18.4,18.4
60	0.5212	0.5298	0.5385	0.5255	0.5734	0.5561	0.5473	0.5604	50- 60	0.4509	1.029	32.8,32.8
70	0.5909	0.5887	0.5857	0.5917	0.5907	0.5864	0.5885	0.5857	60- 70	0.5735	1.602	51.1,51.1
80	0.5946	0.5840	0.5907	0.5820	0.5775	0.5558	0.5732	0.5774	70- 80	0.6278	2.230	71.1,71.1
90	0.5690	0.4826	0.4653	0.4392	0.4772	0.4906	0.5168	0.5076	80- 90	0.6104	2.840	90.6,90.6
100	0.0744	0.0220	0.0132	0.0175	0	0.0432	0.0906	0.0561	90-100	0.2890	3.130	99.8,99.8
110	0	0	0	0	0	0	0	0	100-110	0.0059	3.135	100,100
120	0	0	0	0	0	0	0	0	110-120	0.0000	3.135	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3.135	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3.135	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3.135	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3.135	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3.135	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3.135	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

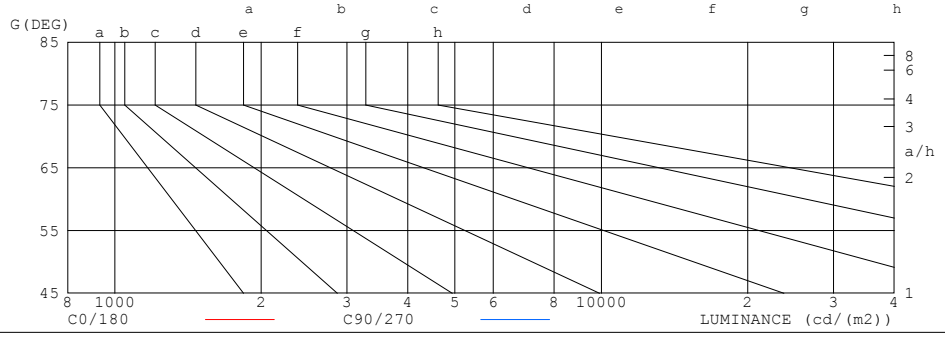
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	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	67	67
80	34	34
75	23	23
70	17	17
65	14	14
60	10	11
55	8	9
50	7	7
45	5	5

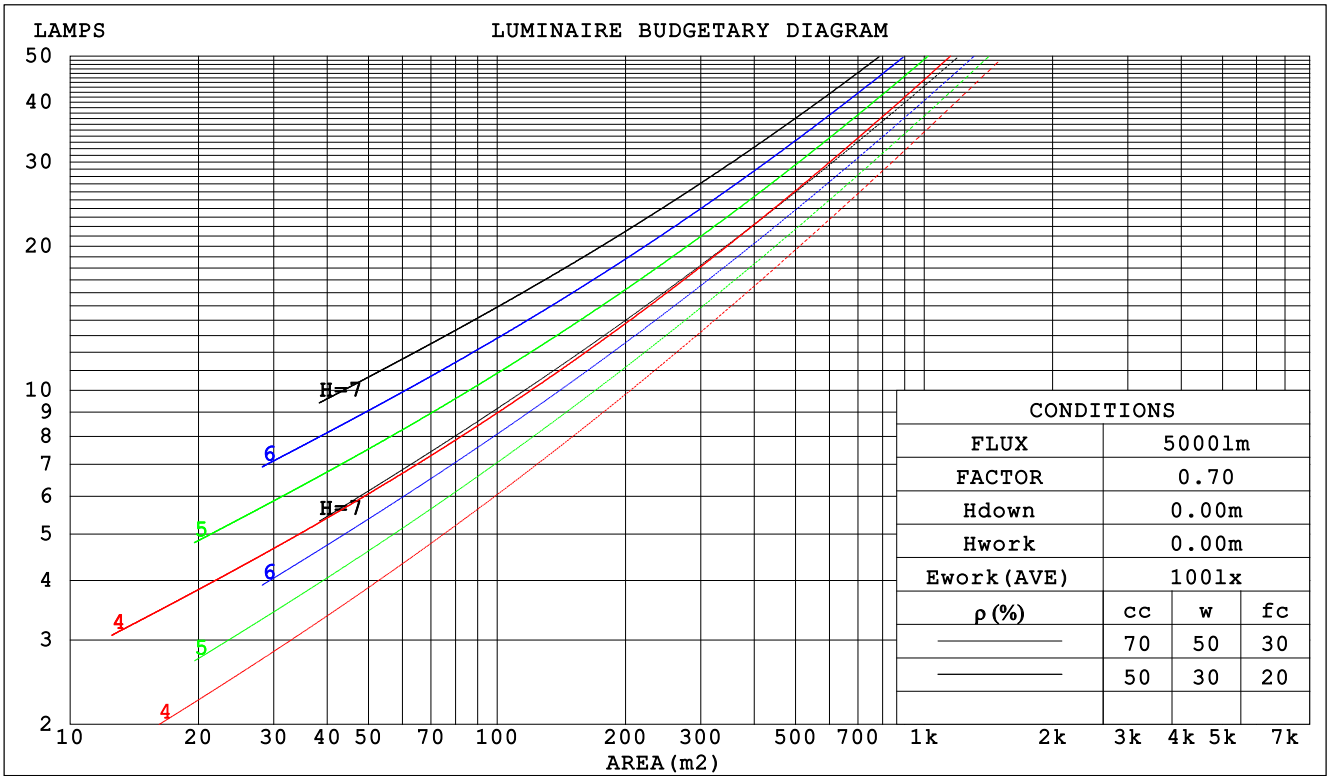
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	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	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.91
1.0	.87	.79	.72	.84	.76	.70	.77	.71	.66	.72	.66	.62	.66	.62	.58	.55
2.0	.70	.59	.50	.67	.57	.49	.62	.53	.46	.57	.49	.43	.52	.46	.41	.37
3.0	.58	.46	.37	.56	.45	.36	.51	.41	.34	.46	.38	.32	.42	.36	.30	.27
4.0	.49	.37	.28	.47	.36	.27	.43	.33	.26	.39	.31	.24	.36	.29	.23	.20
5.0	.43	.31	.22	.41	.30	.22	.37	.28	.20	.34	.26	.19	.31	.24	.18	.15
6.0	.37	.26	.18	.36	.25	.18	.33	.24	.17	.30	.22	.16	.27	.20	.15	.12
7.0	.33	.23	.15	.32	.22	.15	.29	.20	.14	.27	.19	.13	.25	.18	.12	.10
8.0	.30	.20	.13	.29	.19	.12	.26	.18	.12	.24	.17	.11	.22	.15	.10	.08
9.0	.27	.17	.11	.26	.17	.11	.24	.16	.10	.22	.15	.09	.20	.14	.09	.07
10.0	.25	.16	.09	.24	.15	.09	.22	.14	.09	.20	.13	.08	.19	.12	.08	.06



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

WEC AND CCEC

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	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	.584	.332	.105	.574	.327	.104	.554	.318	.101	.535	.309	.099	.518	.301	.097	
2.0	.465	.255	.078	.455	.251	.077	.437	.243	.075	.420	.236	.074	.404	.229	.072	
3.0	.391	.208	.062	.383	.205	.062	.366	.198	.060	.351	.192	.059	.337	.187	.058	
4.0	.339	.176	.052	.331	.173	.051	.316	.168	.050	.303	.162	.049	.290	.157	.048	
5.0	.299	.152	.044	.292	.150	.044	.279	.145	.043	.266	.140	.042	.255	.136	.041	
6.0	.267	.134	.038	.261	.132	.038	.249	.128	.037	.238	.124	.036	.228	.120	.036	
7.0	.242	.120	.034	.236	.118	.034	.225	.114	.033	.215	.110	.032	.206	.107	.031	
8.0	.221	.108	.030	.216	.106	.030	.206	.103	.029	.197	.100	.029	.188	.097	.028	
9.0	.203	.098	.027	.198	.097	.027	.190	.094	.027	.181	.091	.026	.173	.088	.025	
10.0	.188	.090	.025	.184	.089	.025	.176	.086	.024	.168	.083	.024	.161	.081	.023	

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	.262	.262	.262	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.272	.226	.185	.232	.194	.159	.159	.133	.110	.091	.077	.064	.029	.025	.021	
2.0	.268	.204	.150	.230	.175	.130	.157	.121	.090	.091	.071	.053	.029	.023	.017	
3.0	.261	.188	.130	.224	.162	.113	.154	.113	.079	.089	.066	.047	.029	.021	.015	
4.0	.252	.176	.118	.217	.152	.103	.149	.106	.072	.086	.062	.043	.028	.020	.014	
5.0	.243	.167	.111	.209	.144	.096	.144	.101	.068	.083	.059	.040	.027	.019	.013	
6.0	.234	.159	.105	.201	.138	.092	.139	.097	.065	.081	.057	.039	.026	.019	.013	
7.0	.226	.153	.101	.194	.132	.088	.134	.093	.063	.078	.055	.037	.025	.018	.012	
8.0	.218	.147	.098	.187	.128	.086	.130	.090	.061	.075	.053	.036	.024	.017	.012	
9.0	.210	.142	.096	.181	.123	.084	.125	.087	.060	.073	.051	.036	.024	.017	.012	
10.0	.203	.138	.094	.175	.120	.082	.121	.084	.058	.071	.050	.035	.023	.016	.012	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	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	16.5	18.3	16.9	18.7	19.2	16.9	18.8	17.3	19.2	19.6
3H	20.2	21.9	20.6	22.3	22.8	20.6	22.4	21.1	22.8	23.3
4H	22.1	23.8	22.6	24.2	24.8	22.6	24.2	23.0	24.7	25.2
6H	24.3	25.9	24.8	26.3	26.9	24.6	26.2	25.1	26.7	27.2
8H	25.5	27.0	26.0	27.5	28.0	25.7	27.3	26.2	27.8	28.3
12H	26.8	28.3	27.3	28.8	29.3	27.0	28.5	27.5	29.0	29.5
4H 2H	17.8	19.4	18.2	19.9	20.4	18.1	19.7	18.6	20.2	20.7
3H	21.4	22.9	22.0	23.4	24.0	21.9	23.4	22.5	23.9	24.5
4H	23.5	24.9	24.0	25.4	26.0	24.1	25.5	24.6	26.0	26.6
6H	25.8	27.1	26.3	27.6	28.2	26.3	27.6	26.8	28.1	28.7
8H	27.1	28.3	27.6	28.8	29.5	27.5	28.7	28.0	29.3	29.9
12H	28.5	29.6	29.0	30.2	30.8	28.8	30.0	29.4	30.5	31.2
8H 4H	24.3	25.6	24.9	26.1	26.7	24.8	26.0	25.3	26.6	27.2
6H	26.9	27.9	27.5	28.5	29.2	27.3	28.4	27.9	29.0	29.6
8H	28.3	29.3	28.9	29.9	30.5	28.8	29.7	29.4	30.3	31.0
12H	29.9	30.8	30.5	31.4	32.1	30.3	31.2	30.9	31.8	32.5
12H 4H	24.6	25.8	25.2	26.3	27.0	25.0	26.1	25.6	26.7	27.3
6H	27.2	28.2	27.8	28.8	29.5	27.6	28.6	28.3	29.2	29.9
8H	28.8	29.6	29.4	30.3	31.0	29.2	30.1	29.8	30.7	31.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 3.135 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -20.0)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

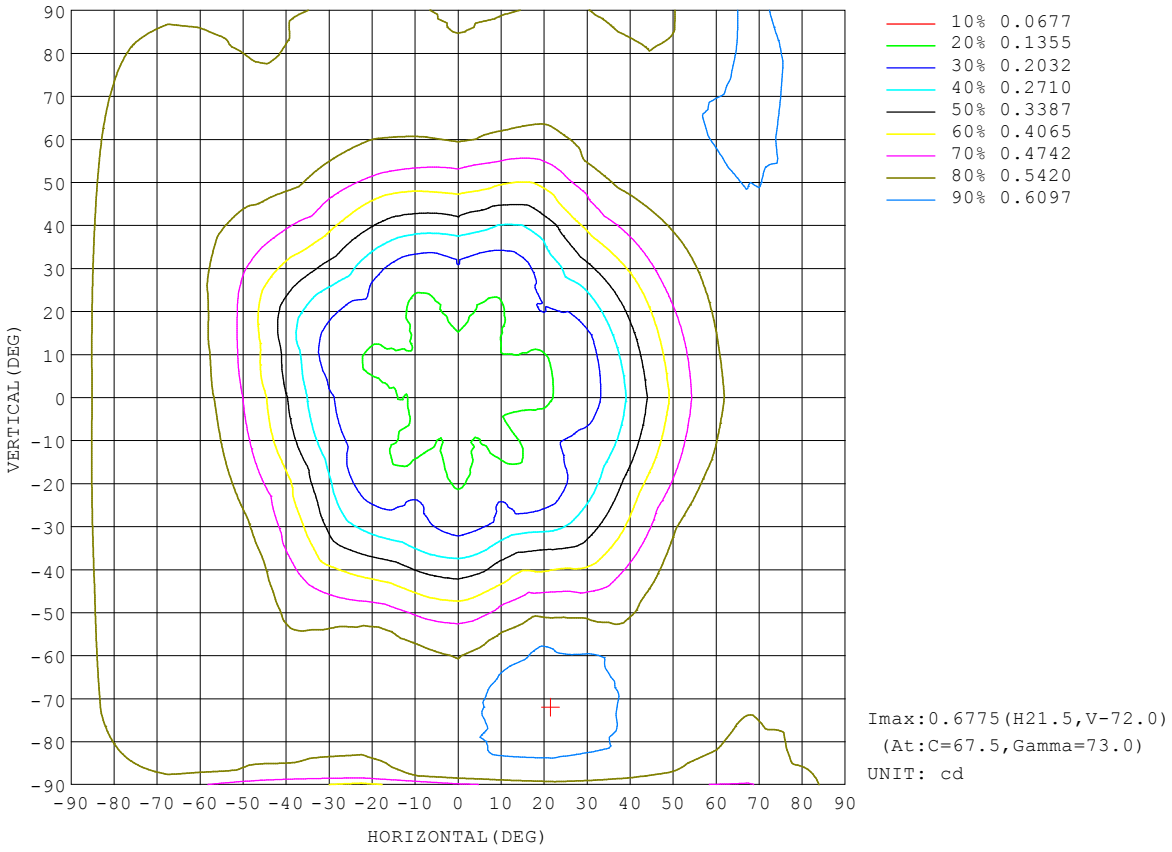
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	38	23	14	37	23	14	35	22	14	6
0.80	46	30	20	44	29	20	42	28	19	10
1.00	53	37	26	51	36	26	48	38	25	15
1.25	60	44	32	58	43	32	54	41	31	20
1.50	65	49	38	63	48	37	59	46	36	25
2.00	74	59	47	71	57	46	66	54	45	33
2.50	79	65	54	76	63	53	71	60	51	38
3.00	84	71	60	81	69	59	75	65	56	44
4.00	90	79	69	87	76	67	81	72	64	51
5.00	94	84	75	91	81	73	84	76	70	56
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:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

ISOCANDELA DIAGRAM

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

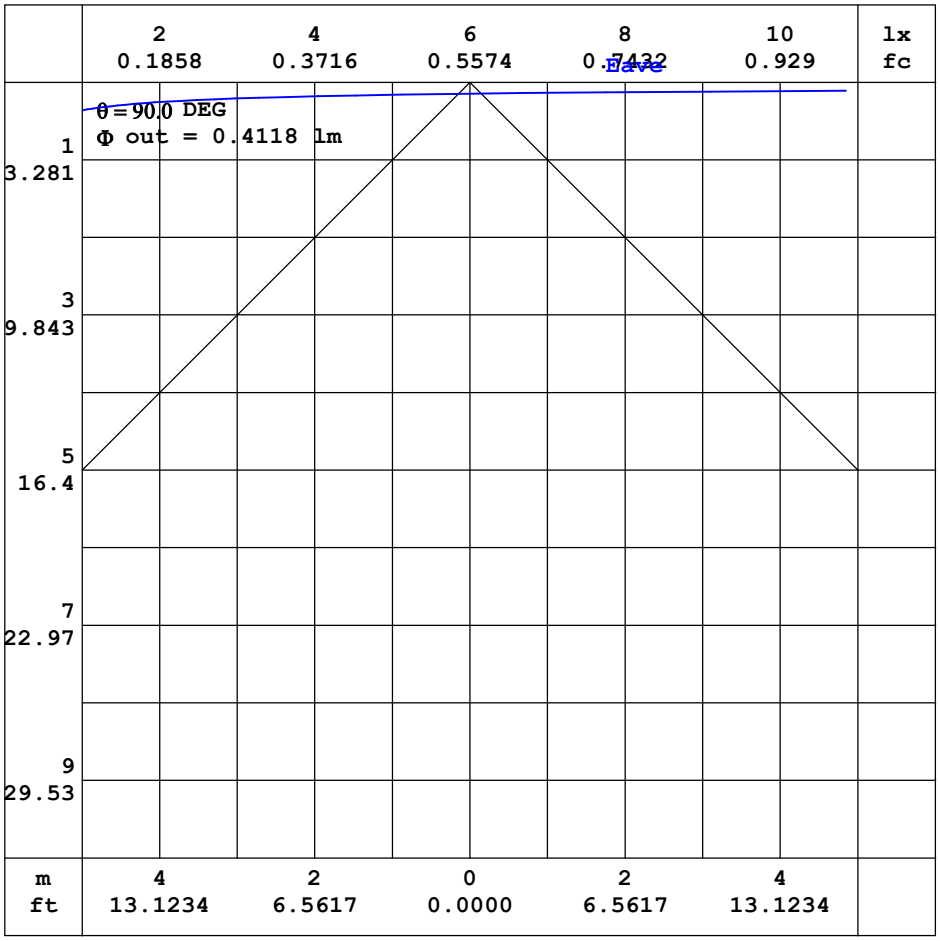


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

AAI CURVES

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



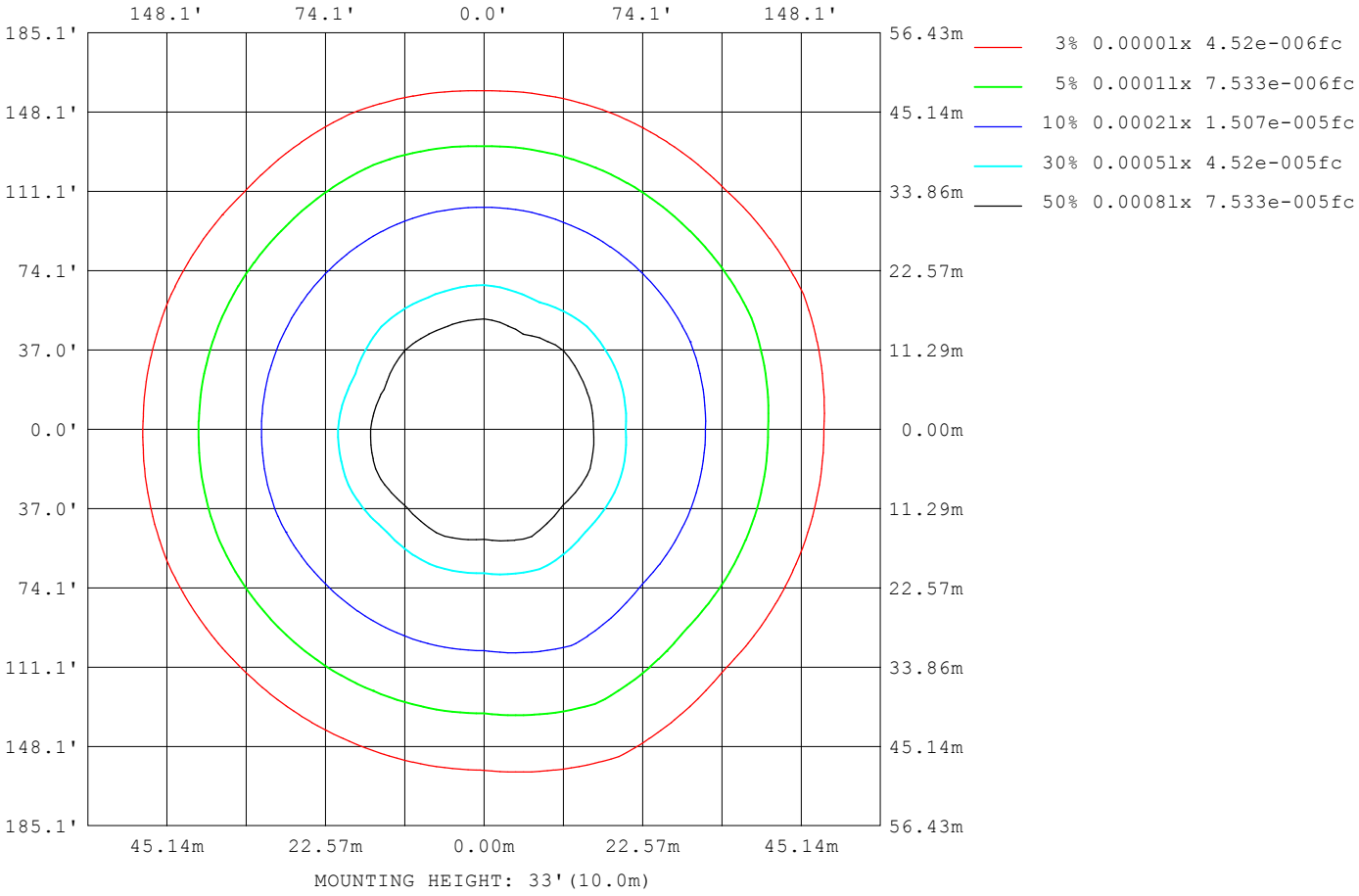
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

ISOLUX DIAGRAM

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

LED Avg.L Report

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

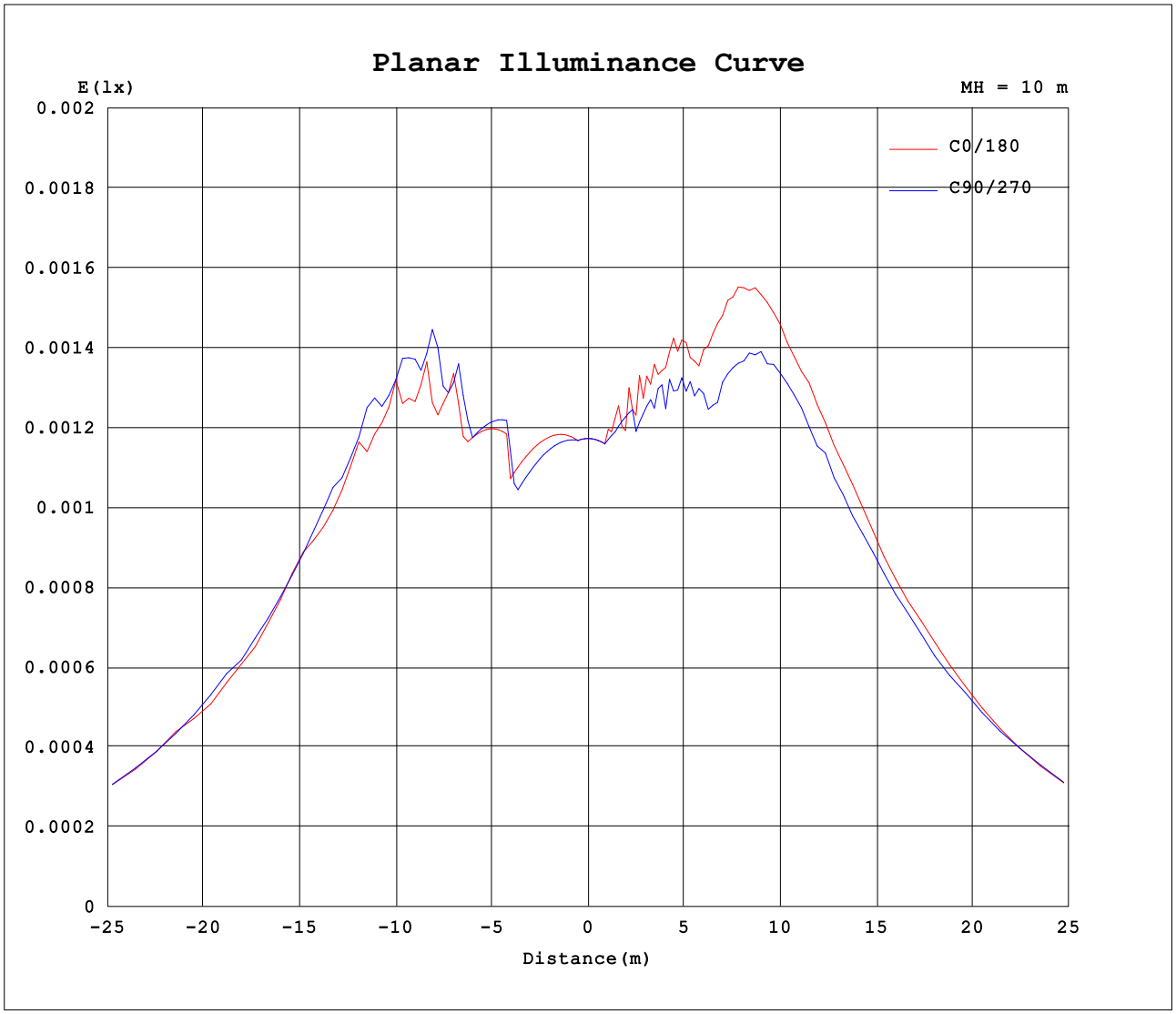
AvgL	cd/m2
L_0~180(65)av	14
L_0~180(75)av	23
L_0~180(85)av	65
L_90~270(65)av	14
L_90~270(75)av	23
L_90~270(85)av	64
L_45(65)av	14
L_45(75)av	23
L_45(85)av	63

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.13537x1 lm		
NAME: HCP-271106 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	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	0.12	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.12	0.12	0.12	0.12			
5	0.12	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12			
10	0.12	0.13	0.11	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.13	0.12	0.13	0.12			
15	0.13	0.15	0.12	0.15	0.12	0.15	0.13	0.15	0.15	0.13	0.13	0.12	0.13	0.12	0.14	0.13			
20	0.13	0.17	0.13	0.17	0.13	0.17	0.14	0.17	0.16	0.14	0.15	0.12	0.16	0.12	0.16	0.14			
25	0.16	0.20	0.17	0.20	0.16	0.20	0.16	0.20	0.19	0.14	0.18	0.12	0.17	0.13	0.19	0.16			
30	0.18	0.23	0.18	0.21	0.18	0.23	0.20	0.22	0.21	0.18	0.20	0.17	0.20	0.18	0.21	0.17			
35	0.24	0.26	0.23	0.29	0.24	0.26	0.24	0.29	0.27	0.21	0.24	0.21	0.24	0.18	0.25	0.23			
40	0.30	0.31	0.30	0.36	0.31	0.33	0.31	0.36	0.34	0.25	0.30	0.30	0.31	0.24	0.31	0.30			
45	0.37	0.38	0.37	0.44	0.37	0.40	0.37	0.43	0.41	0.33	0.37	0.37	0.38	0.30	0.38	0.36			
50	0.44	0.45	0.44	0.50	0.44	0.47	0.44	0.50	0.47	0.40	0.44	0.43	0.43	0.38	0.45	0.44			
55	0.49	0.52	0.50	0.56	0.50	0.53	0.50	0.55	0.53	0.46	0.51	0.49	0.50	0.45	0.51	0.50			
60	0.52	0.57	0.53	0.61	0.54	0.57	0.53	0.59	0.57	0.51	0.56	0.52	0.55	0.52	0.56	0.54			
65	0.58	0.57	0.59	0.65	0.58	0.59	0.57	0.59	0.59	0.55	0.59	0.58	0.58	0.54	0.58	0.59			
70	0.59	0.57	0.59	0.66	0.59	0.58	0.59	0.60	0.59	0.59	0.59	0.59	0.59	0.58	0.59	0.60			
75	0.59	0.57	0.59	0.67	0.59	0.57	0.59	0.60	0.59	0.58	0.59	0.60	0.58	0.59	0.59	0.62			
80	0.59	0.57	0.58	0.66	0.59	0.57	0.58	0.60	0.58	0.58	0.56	0.60	0.57	0.59	0.58	0.60			
85	0.59	0.53	0.57	0.60	0.58	0.53	0.56	0.58	0.54	0.58	0.52	0.58	0.54	0.58	0.53	0.58			
90	0.57	0.47	0.48	0.51	0.47	0.39	0.44	0.50	0.48	0.50	0.49	0.56	0.52	0.56	0.51	0.56			
95	0.32	0.17	0.22	0.23	0.20	0.10	0.20	0.23	0.23	0.22	0.28	0.40	0.33	0.32	0.30	0.39			
100	0.07	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.02	0.04	0.14	0.09	0.06	0.06	0.12			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

C Range: 0 - 360DEG
C Interval: 22.5DEG
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