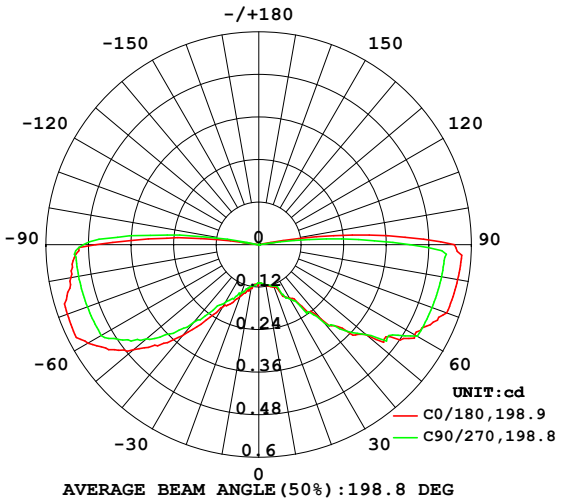
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

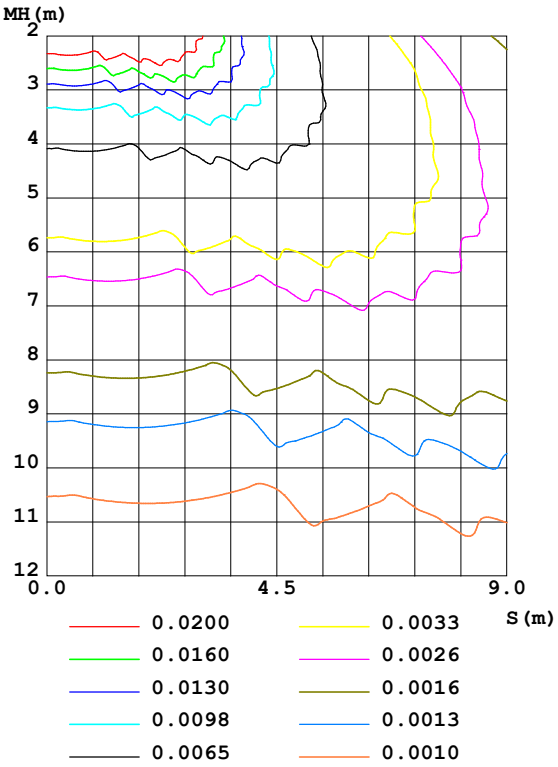
DATA OF LAMP		PHOTOMETRIC DATA			Eff: 1.10 lm/W
MODEL	HCP-271106 3000K	Imax(cd)	0.5993	S/MH(C0/180)	3.66
NOMINAL POWER(W)	2.5W	LOR(%)	100.0	S/MH(C90/270)	3.50
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	2.9489	η UP,DN(C0-180)	3.9,45.8
NOMINAL FLUX(lm)	2.94889	CIE CLASS	DIRECT	η UP,DN(C180-360)	5.6,44.8
LAMPS 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 3000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	0.1165	0.1122	0.1149	0.1134	0.1217	0.1224	0.1196	0.1259	0- 10	0.0110	0.0110	0.37,0.37
20	0.1278	0.1194	0.1240	0.1202	0.1564	0.1477	0.1434	0.1564	10- 20	0.0366	0.0476	1.62,1.62
30	0.1742	0.1758	0.1780	0.1823	0.2042	0.1911	0.1868	0.2085	20- 30	0.0754	0.1230	4.17,4.17
40	0.2734	0.2604	0.2863	0.2995	0.3346	0.2825	0.2869	0.2998	30- 40	0.1467	0.2698	9.15,9.15
50	0.3951	0.3822	0.3951	0.4211	0.4606	0.4214	0.4128	0.4301	40- 50	0.2775	0.5473	18.6,18.6
60	0.5082	0.5036	0.5167	0.5228	0.5560	0.5135	0.5126	0.5264	50- 60	0.4266	0.9739	33,33
70	0.5645	0.5255	0.5201	0.5385	0.5745	0.5180	0.5143	0.5340	60- 70	0.5342	1.508	51.1,51.1
80	0.5697	0.5255	0.5235	0.5357	0.5385	0.5092	0.5159	0.5256	70- 80	0.5828	2.091	70.9,70.9
90	0.5516	0.4392	0.4262	0.4219	0.4598	0.4472	0.4949	0.4733	80- 90	0.5798	2.671	90.6,90.6
100	0.0700	0.0219	0.0089	0.0176	0	0.0345	0.0906	0.0475	90-100	0.2728	2.944	99.8,99.8
110	0	0	0	0	0	0	0	0	100-110	0.0053	2.949	100,100
120	0	0	0	0	0	0	0	0	110-120	0.0000	2.949	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2.949	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2.949	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2.949	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2.949	100,100
170	0	0	0	0	0	0	0	0	160-170	0	2.949	100,100
180	0	0	0	0	0	0	0	0	170-180	0	2.949	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

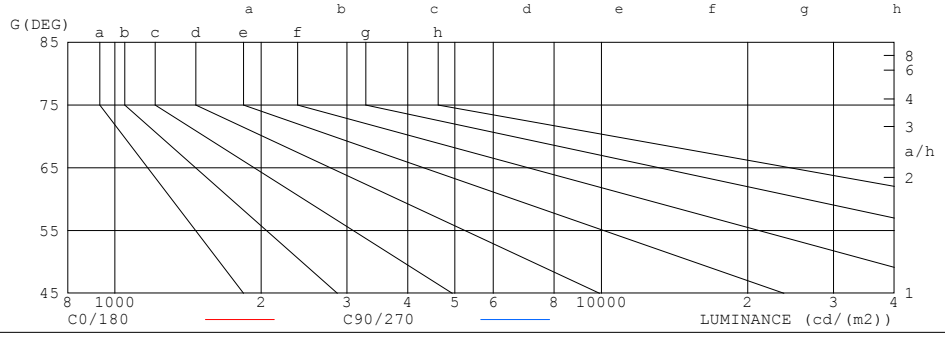
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271106 3000K

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	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	66	60
80	33	30
75	22	20
70	17	15
65	13	12
60	10	10
55	8	8
50	6	6
45	5	5

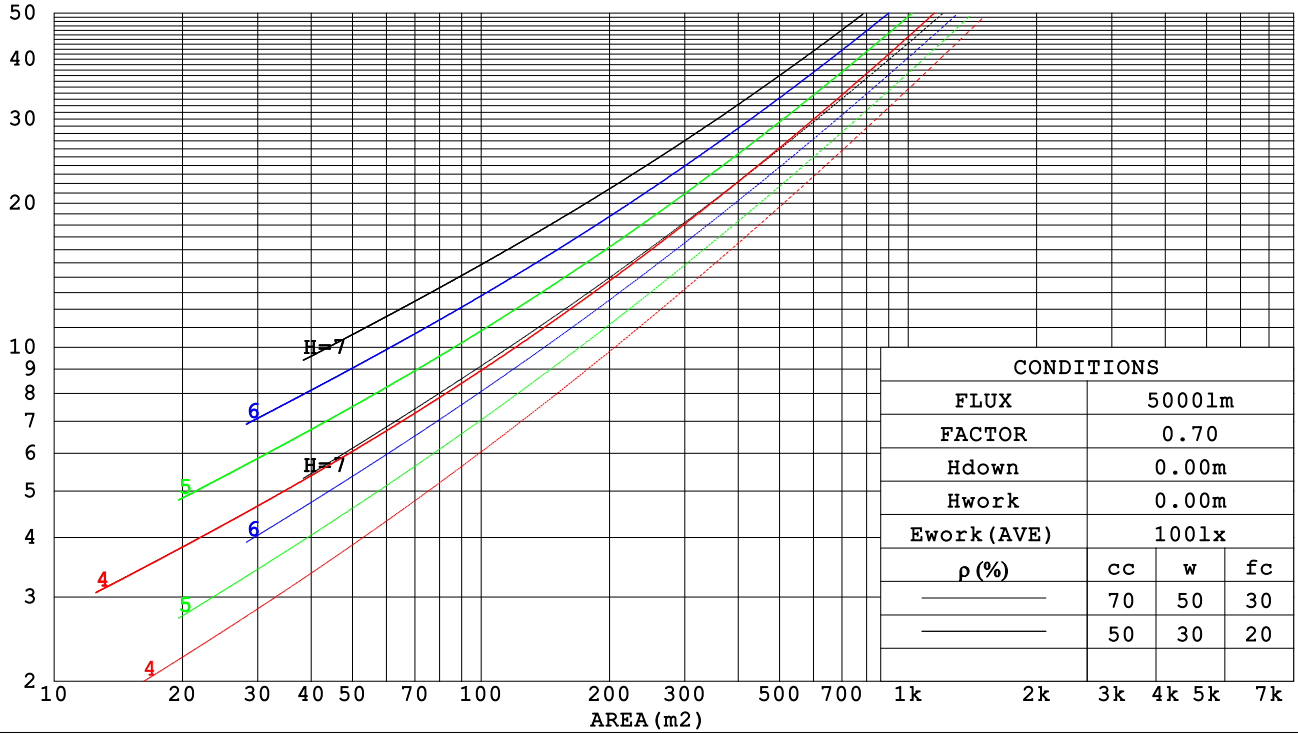
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

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 3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	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	.47	.39	.32	.42	.36	.30	.27
4.0	.49	.37	.28	.47	.36	.27	.43	.34	.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	.28	.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 3000K

WEC AND CCEC

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	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	.585	.333	.105	.574	.327	.104	.554	.318	.102	.536	.309	.099	.519	.301	.097	
2.0	.464	.255	.078	.455	.250	.077	.436	.243	.075	.420	.235	.074	.404	.229	.072	
3.0	.391	.208	.062	.382	.205	.062	.366	.198	.060	.351	.192	.059	.337	.186	.058	
4.0	.339	.176	.052	.331	.173	.051	.316	.168	.050	.302	.162	.049	.289	.157	.048	
5.0	.299	.152	.044	.292	.150	.044	.278	.145	.043	.266	.140	.042	.254	.136	.041	
6.0	.267	.134	.038	.261	.132	.038	.249	.128	.037	.238	.124	.036	.227	.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	.096	.028	
9.0	.203	.098	.027	.198	.097	.027	.189	.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	.233	.194	.159	.159	.134	.110	.092	.077	.064	.029	.025	.021	
2.0	.268	.204	.150	.230	.176	.130	.157	.122	.090	.091	.071	.053	.029	.023	.017	
3.0	.261	.188	.131	.224	.163	.113	.154	.113	.079	.089	.066	.047	.029	.021	.015	
4.0	.253	.177	.119	.217	.153	.103	.149	.106	.073	.086	.062	.043	.028	.020	.014	
5.0	.244	.167	.111	.209	.145	.096	.144	.101	.068	.083	.059	.040	.027	.019	.013	
6.0	.235	.159	.106	.202	.138	.092	.139	.097	.065	.081	.057	.039	.026	.019	.013	
7.0	.226	.153	.102	.194	.133	.089	.134	.093	.063	.078	.055	.037	.025	.018	.012	
8.0	.218	.147	.099	.188	.128	.086	.130	.090	.061	.076	.053	.036	.024	.017	.012	
9.0	.210	.142	.096	.181	.124	.084	.126	.087	.060	.073	.051	.036	.024	.017	.012	
10.0	.203	.138	.094	.175	.120	.082	.122	.084	.059	.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 3000K

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	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	16.6	18.4	17.0	18.8	19.3	16.7	18.5	17.1	19.0	19.4
3H	20.4	22.1	20.9	22.6	23.0	20.3	22.0	20.8	22.5	23.0
4H	22.4	24.0	22.8	24.5	25.0	22.2	23.8	22.6	24.3	24.8
6H	24.5	26.0	25.0	26.5	27.1	24.2	25.8	24.7	26.3	26.8
8H	25.6	27.2	26.1	27.7	28.2	25.3	26.9	25.8	27.4	27.9
12H	27.0	28.5	27.5	29.0	29.5	26.6	28.1	27.1	28.6	29.2
4H 2H	17.8	19.4	18.3	19.9	20.4	17.9	19.5	18.3	20.0	20.5
3H	21.6	23.1	22.1	23.6	24.2	21.6	23.1	22.1	23.6	24.1
4H	23.7	25.1	24.3	25.6	26.2	23.6	25.0	24.2	25.6	26.1
6H	26.0	27.2	26.5	27.8	28.4	25.9	27.1	26.4	27.7	28.3
8H	27.2	28.4	27.8	29.0	29.6	27.1	28.3	27.6	28.9	29.5
12H	28.6	29.8	29.2	30.3	31.0	28.4	29.6	29.0	30.2	30.8
8H 4H	24.5	25.7	25.0	26.2	26.9	24.4	25.6	25.0	26.2	26.8
6H	26.9	28.0	27.5	28.6	29.2	26.9	28.0	27.5	28.6	29.2
8H	28.3	29.3	29.0	29.9	30.6	28.4	29.4	29.0	30.0	30.6
12H	30.0	30.9	30.6	31.5	32.2	30.0	30.9	30.6	31.5	32.2
12H 4H	24.7	25.8	25.3	26.4	27.0	24.6	25.8	25.2	26.3	27.0
6H	27.3	28.2	27.9	28.8	29.5	27.3	28.2	27.9	28.8	29.5
8H	28.8	29.7	29.4	30.3	31.0	28.8	29.7	29.5	30.3	31.0
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 / - 0.5				

CIE Pub.117, 2.949 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -20.2)

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 3000K

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

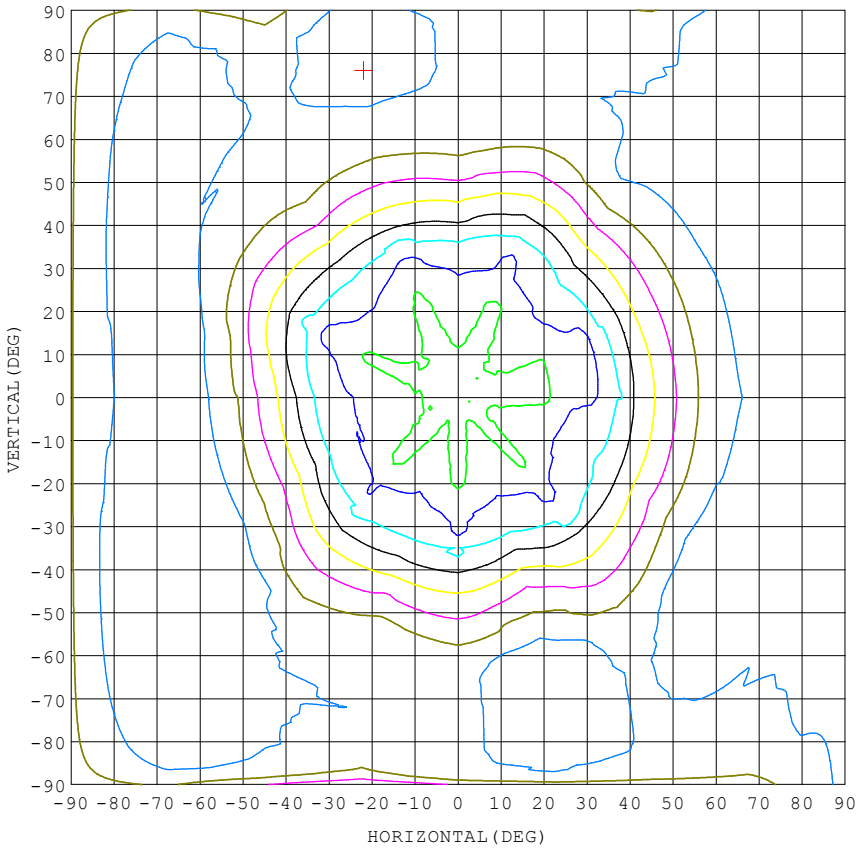
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	38	23	14	37	23	14	35	22	14	6
0.80	46	30	20	44	29	20	42	28	19	10
1.00	53	37	26	51	36	26	48	38	25	15
1.25	60	44	32	58	43	32	54	41	31	21
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	80	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 3000K

ISOCANDELA DIAGRAM

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



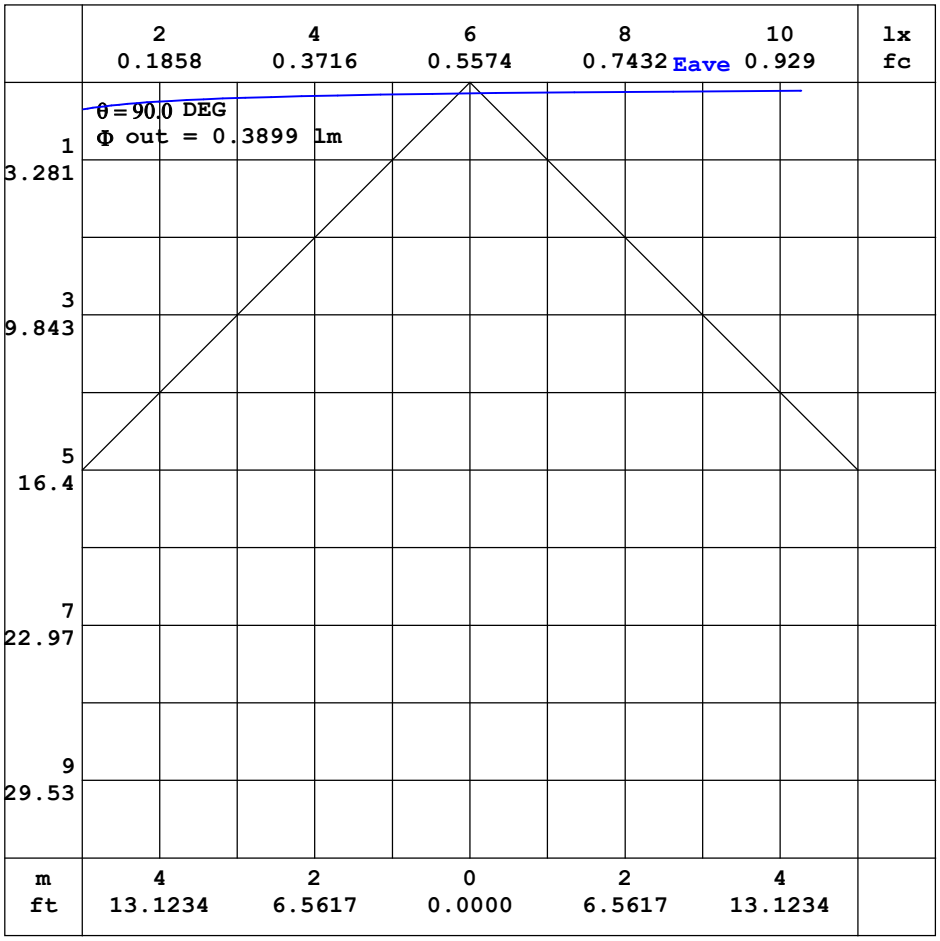
Imax:0.5988(H-22.0,V76.0)
(At:C=247.5,Gamma=77.0)
UNIT: cd

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 3000K

AAI CURVES

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



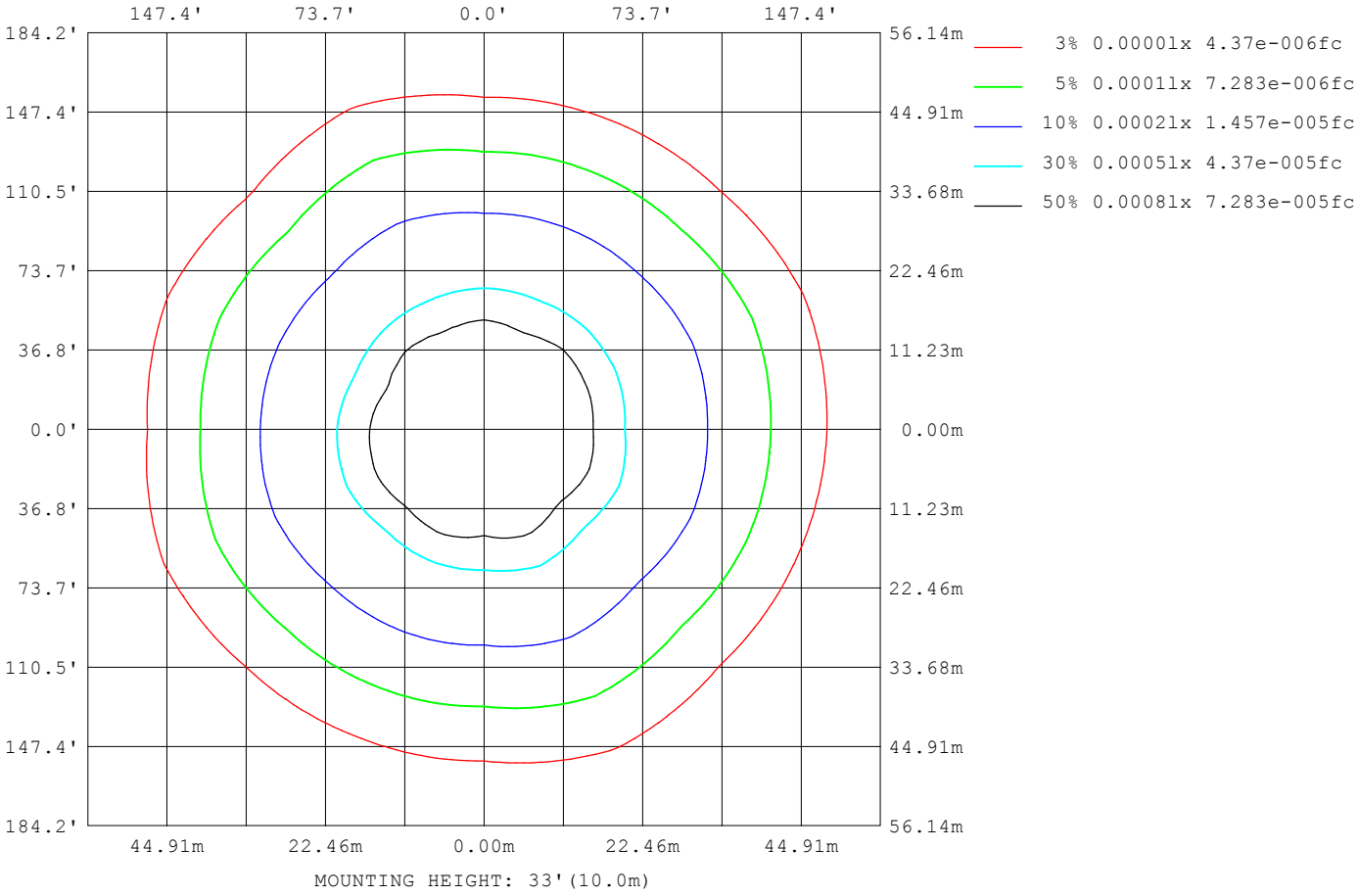
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 3000K

ISOLUX DIAGRAM

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	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 3000K

LED Avg.L Report

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

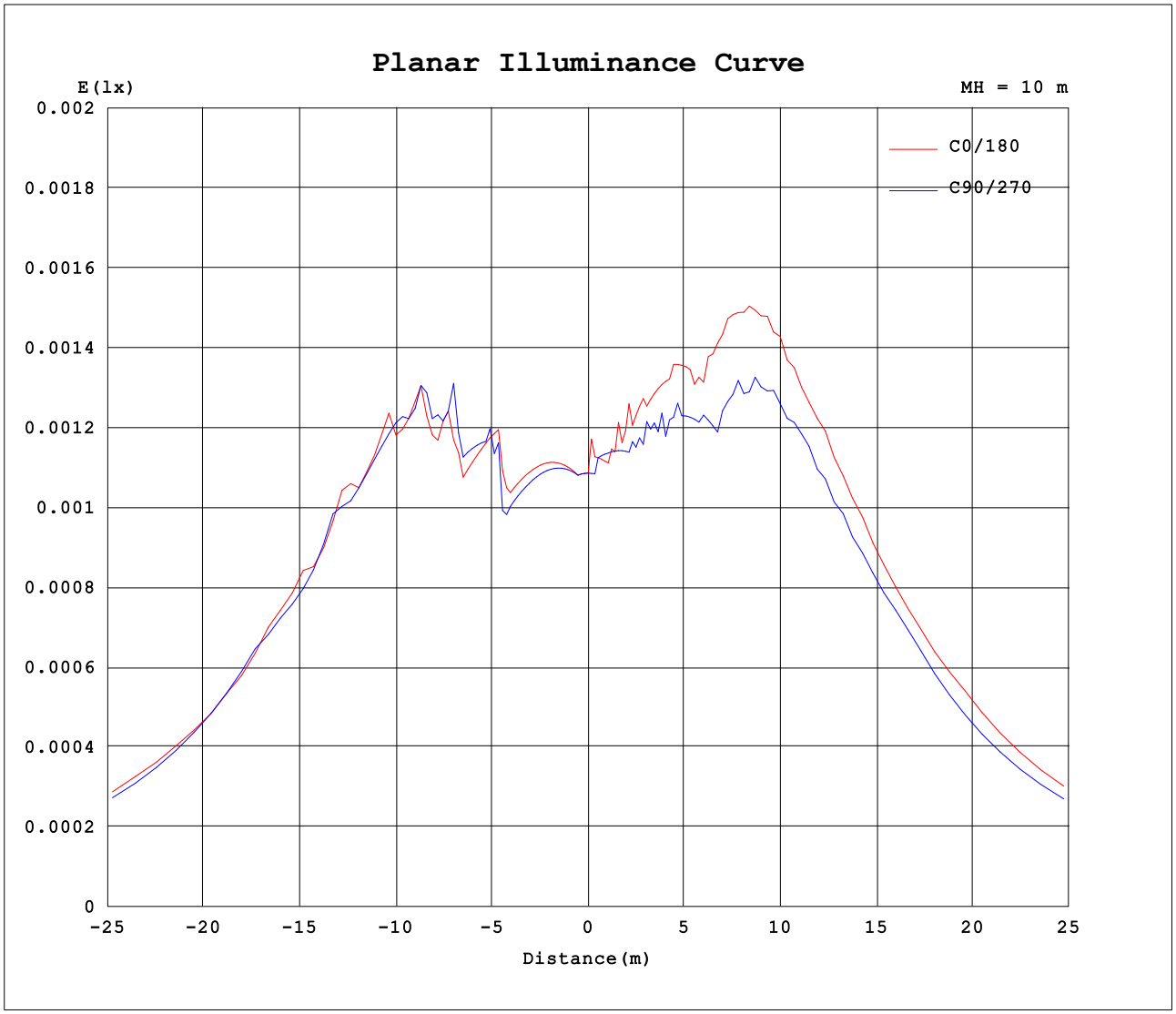
AvgL	cd/m2
L_0~180(65)av	13
L_0~180(75)av	22
L_0~180(85)av	63
L_90~270(65)av	12
L_90~270(75)av	20
L_90~270(85)av	60
L_45(65)av	12
L_45(75)av	20
L_45(85)av	59

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 3000K

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 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1119A P:2.6853W PF:1.0000 Freq:50.00Hz Lamp Flux:2.94889x1 lm		
NAME: HCP-271106 3000K	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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11			
5	0.11	0.12	0.11	0.12	0.11	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11			
10	0.12	0.13	0.11	0.13	0.11	0.13	0.11	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.13	0.12			
15	0.12	0.14	0.12	0.14	0.12	0.14	0.12	0.14	0.14	0.12	0.13	0.11	0.13	0.12	0.14	0.12			
20	0.13	0.16	0.12	0.17	0.12	0.17	0.12	0.16	0.16	0.12	0.15	0.11	0.14	0.12	0.16	0.12			
25	0.16	0.19	0.16	0.18	0.16	0.19	0.16	0.18	0.18	0.13	0.17	0.11	0.17	0.13	0.17	0.15			
30	0.17	0.21	0.18	0.20	0.18	0.21	0.18	0.21	0.20	0.17	0.19	0.16	0.19	0.17	0.21	0.18			
35	0.21	0.24	0.21	0.27	0.24	0.25	0.23	0.28	0.26	0.19	0.23	0.19	0.23	0.18	0.24	0.21			
40	0.27	0.29	0.26	0.34	0.29	0.31	0.30	0.35	0.33	0.24	0.28	0.26	0.29	0.24	0.30	0.30			
45	0.33	0.36	0.32	0.40	0.34	0.38	0.37	0.42	0.40	0.31	0.35	0.33	0.36	0.30	0.37	0.38			
50	0.40	0.43	0.38	0.46	0.40	0.44	0.42	0.48	0.46	0.38	0.42	0.38	0.41	0.37	0.43	0.43			
55	0.45	0.49	0.44	0.51	0.45	0.50	0.47	0.53	0.52	0.44	0.48	0.45	0.47	0.43	0.49	0.48			
60	0.51	0.54	0.50	0.56	0.52	0.53	0.52	0.58	0.56	0.50	0.51	0.50	0.51	0.48	0.53	0.52			
65	0.53	0.58	0.51	0.59	0.52	0.53	0.53	0.58	0.58	0.53	0.52	0.52	0.51	0.51	0.53	0.57			
70	0.56	0.58	0.53	0.59	0.52	0.54	0.54	0.58	0.57	0.54	0.52	0.54	0.51	0.52	0.53	0.58			
75	0.57	0.57	0.53	0.58	0.52	0.53	0.54	0.58	0.56	0.58	0.52	0.59	0.52	0.53	0.54	0.59			
80	0.57	0.53	0.53	0.58	0.52	0.52	0.54	0.59	0.54	0.57	0.51	0.60	0.52	0.53	0.53	0.58			
85	0.57	0.51	0.53	0.56	0.53	0.49	0.53	0.59	0.53	0.56	0.49	0.59	0.52	0.53	0.52	0.57			
90	0.55	0.45	0.44	0.45	0.43	0.36	0.42	0.49	0.46	0.49	0.45	0.58	0.49	0.51	0.47	0.55			
95	0.31	0.17	0.21	0.20	0.19	0.09	0.19	0.23	0.23	0.22	0.25	0.37	0.31	0.30	0.30	0.38			
100	0.07	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.02	0.03	0.14	0.09	0.06	0.05	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
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