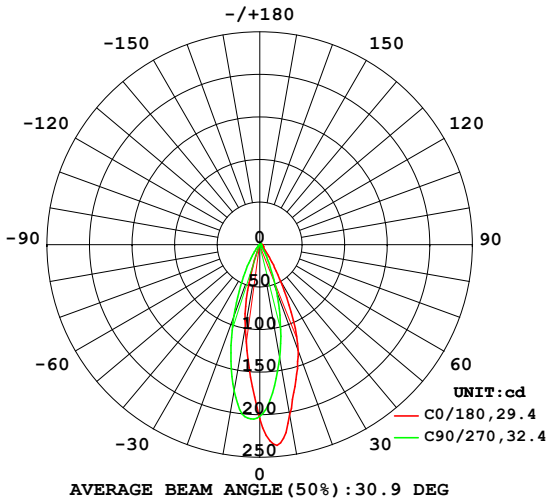
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

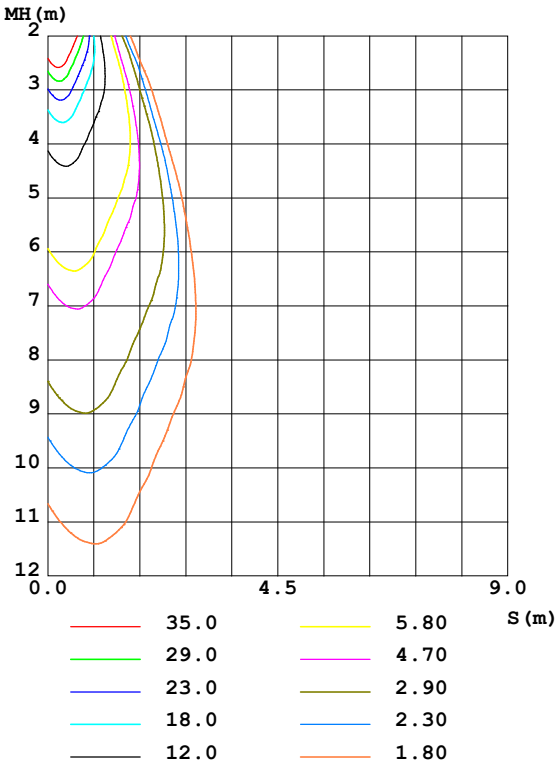
DATA OF LAMP		PHOTOMETRIC DATA Eff: 32.21 lm/W			
MODEL	HCP-271102 4000K	Imax(cd)	238.0	S/MH(C0/180)	0.32
NOMINAL POWER(W)	2.5W	LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	84.882	η UP,DN(C0-180)	1.0,47.6
NOMINAL FLUX(lm)	84.8822	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.9,50.5
LAMPS INSIDE	1	η up(%)	1.9	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	23.997	η down(%)	98.1	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):30.9 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:2023-12-15

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-271102 4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	203.2	181.4	135.2	92.54	99.57	119.3	174.5	218.6	0- 10	16.86	16.86	19.9,19.9
20	132.1	99.66	57.45	24.10	13.80	39.34	89.48	130.5	10- 20	30.45	47.31	55.7,55.7
30	46.93	35.48	15.09	1.955	1.020	2.990	29.35	53.97	20- 30	20.15	67.45	79.5,79.5
40	12.65	9.793	3.840	0.7566	0.4292	0.8547	7.024	14.56	30- 40	7.974	75.43	88.9,88.9
50	5.477	4.394	1.626	0.3218	0.2431	0.3642	1.965	5.381	40- 50	2.945	78.37	92.3,92.3
60	3.493	2.915	0.7955	0.1174	0.0087	0.1084	0.9678	3.443	50- 60	1.726	80.10	94.4,94.4
70	2.720	2.250	0.3217	0.0217	0.0087	0.0087	0.4337	2.614	60- 70	1.264	81.36	95.9,95.9
80	2.259	1.894	0.1043	0.0087	0.0130	0.0087	0.1085	2.154	70- 80	1.019	82.38	97.1,97.1
90	2.271	1.743	0.0000	0.0087	0.0174	0.0130	0.0258	2.007	80- 90	0.9107	83.29	98.1,98.1
100	0.4472	0.0321	0	0.0087	0.0261	0.0174	0	0.6484	90-100	0.6309	83.92	98.9,98.9
110	0	0	0	0.0173	0.0392	0.0347	0.0087	0	100-110	0.0275	83.95	98.9,98.9
120	0	0	0.0389	0.0520	0.0827	0.0695	0.0261	0.0000	110-120	0.0210	83.97	98.9,98.9
130	0	0.0346	0.1042	0.1865	0.2130	0.1565	0.0783	0.0218	120-130	0.0540	84.03	99,99
140	0.0735	0.1516	0.2992	0.4036	0.4217	0.3347	0.2087	0.1174	130-140	0.1290	84.16	99.1,99.1
150	0.2690	0.3774	0.5210	0.6165	0.6603	0.5519	0.4086	0.3043	140-150	0.2203	84.38	99.4,99.4
160	0.5125	0.5860	0.6439	0.7253	0.7180	0.6907	0.6038	0.5301	150-160	0.2522	84.63	99.7,99.7
170	0.6622	0.6579	0.6587	0.7278	0.7274	0.7201	0.6906	0.6776	160-170	0.1867	84.82	99.9,99.9
180	0.7296	0.7296	0.7210	0.7296	0.7340	0.7340	0.7296	0.7340	170-180	0.0670	84.88	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:2023-12-15

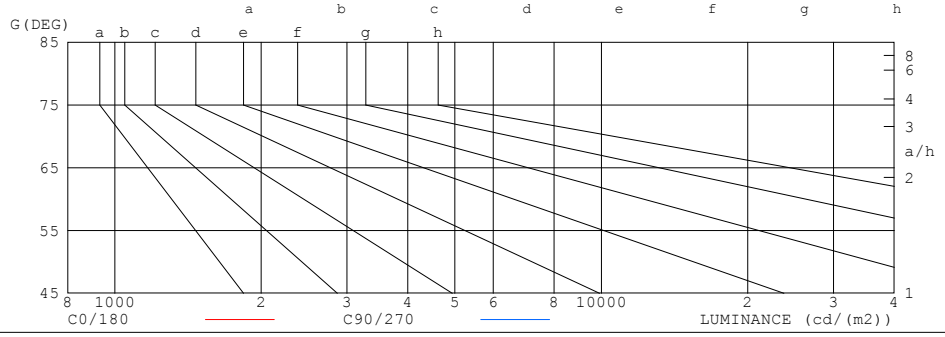
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271102 4000K

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 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	258	7
80	130	6
75	95	7
70	80	9
65	73	12
60	70	16
55	74	20
50	85	25
45	112	34

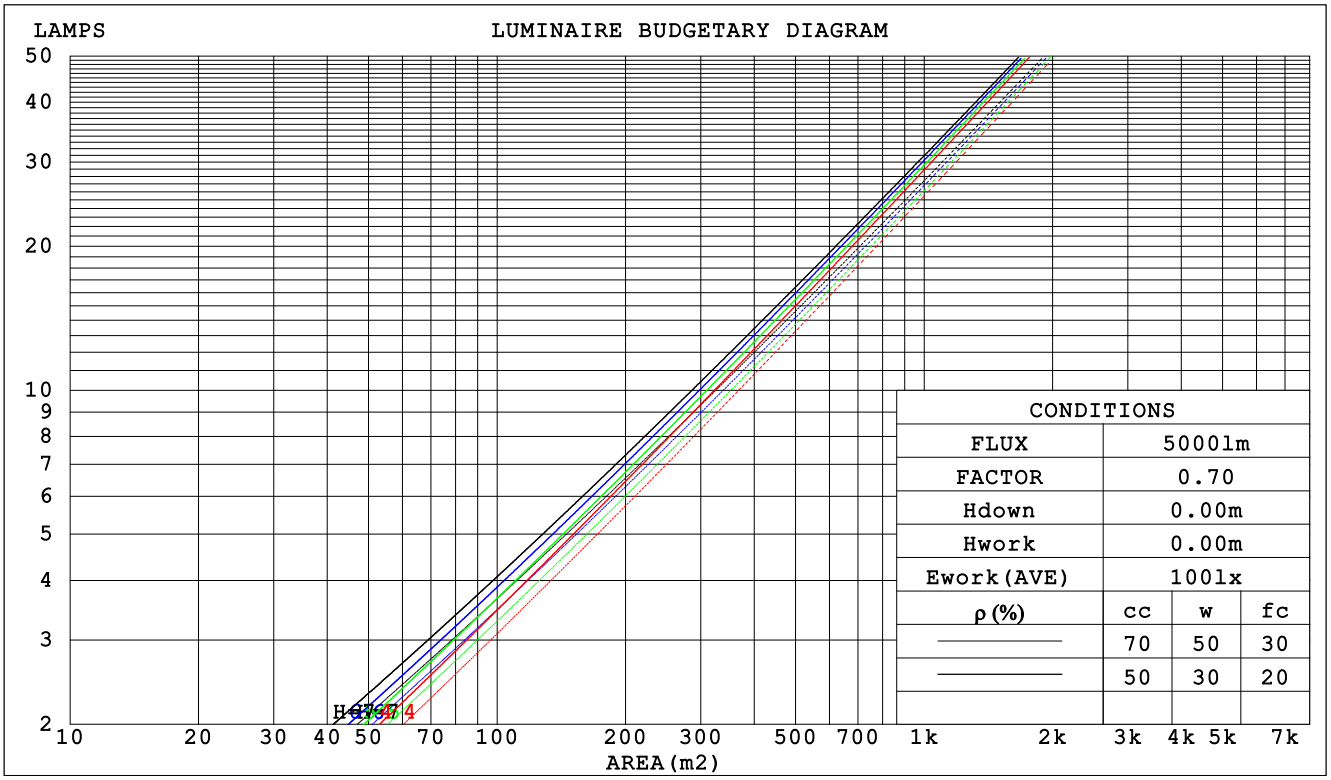
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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-271102 4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 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	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.03	1.01	.00	.99	.98	.97	.96	.94	.93	.91
2.0	1.03	.99	.96	1.01	.97	.94	.97	.95	.92	.94	.92	.90	.91	.89	.88	.86
3.0	.97	.92	.88	.95	.91	.87	.92	.89	.86	.90	.87	.84	.87	.85	.83	.81
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.80	.85	.82	.79	.83	.81	.78	.77
5.0	.86	.81	.77	.85	.80	.77	.83	.79	.76	.82	.78	.75	.80	.77	.74	.73
6.0	.82	.77	.73	.81	.76	.72	.80	.75	.72	.78	.74	.71	.77	.73	.71	.69
7.0	.78	.73	.69	.78	.72	.69	.76	.72	.68	.75	.71	.68	.74	.70	.67	.66
8.0	.75	.69	.66	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.63
9.0	.72	.66	.63	.71	.66	.63	.70	.65	.62	.69	.65	.62	.68	.64	.62	.60
10.0	.69	.63	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.66	.62	.59	.58



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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-271102 4000K

WEC AND CCEC

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 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	.183	.104	.033	.176	.100	.032	.162	.093	.030	.150	.086	.028	.138	.080	.026	
2.0	.168	.092	.028	.162	.089	.028	.151	.084	.026	.140	.078	.025	.130	.074	.023	
3.0	.156	.083	.025	.151	.081	.024	.141	.076	.023	.132	.072	.022	.123	.068	.021	
4.0	.146	.076	.022	.142	.074	.022	.133	.071	.021	.125	.067	.020	.118	.064	.019	
5.0	.137	.070	.020	.133	.068	.020	.126	.066	.019	.119	.063	.019	.112	.060	.018	
6.0	.130	.065	.019	.126	.064	.018	.120	.061	.018	.113	.059	.017	.108	.057	.017	
7.0	.123	.061	.017	.120	.060	.017	.114	.058	.017	.108	.056	.016	.103	.054	.016	
8.0	.117	.057	.016	.114	.056	.016	.109	.054	.016	.104	.053	.015	.099	.051	.015	
9.0	.111	.054	.015	.109	.053	.015	.104	.051	.015	.100	.050	.014	.096	.049	.014	
10.0	.106	.051	.014	.104	.050	.014	.100	.049	.014	.096	.048	.014	.092	.046	.013	

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	.205	.205	.205	.175	.175	.175	.119	.119	.119	.069	.069	.069	.022	.022	.022	
1.0	.186	.172	.159	.159	.147	.137	.109	.101	.094	.063	.059	.055	.020	.019	.018	
2.0	.170	.147	.127	.146	.127	.110	.100	.088	.077	.058	.051	.045	.018	.016	.015	
3.0	.157	.128	.105	.135	.110	.091	.092	.077	.064	.053	.045	.038	.017	.015	.012	
4.0	.146	.113	.088	.125	.098	.077	.086	.068	.054	.050	.040	.032	.016	.013	.011	
5.0	.137	.102	.076	.117	.088	.066	.081	.061	.046	.047	.036	.028	.015	.012	.009	
6.0	.128	.092	.066	.110	.080	.057	.076	.056	.041	.044	.033	.024	.014	.011	.008	
7.0	.121	.084	.058	.104	.073	.051	.072	.051	.036	.042	.030	.021	.014	.010	.007	
8.0	.115	.078	.052	.099	.068	.046	.069	.047	.032	.040	.028	.019	.013	.009	.006	
9.0	.110	.073	.047	.095	.063	.041	.066	.044	.029	.038	.026	.018	.012	.009	.006	
10.0	.105	.068	.043	.091	.059	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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-271102 4000K

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 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	9.8	10.6	10.0	10.8	11.0	5.8	6.6	6.0	6.8	7.0
3H	11.0	11.8	11.3	12.0	12.3	6.2	7.0	6.5	7.3	7.5
4H	11.9	12.7	12.2	12.9	13.2	6.4	7.2	6.7	7.4	7.7
6H	13.1	13.8	13.4	14.0	14.3	6.6	7.3	6.9	7.6	7.8
8H	13.8	14.5	14.1	14.8	15.1	6.6	7.3	7.0	7.6	7.9
12H	14.8	15.4	15.1	15.7	16.0	6.7	7.3	7.0	7.6	7.9
4H 2H	9.9	10.7	10.3	11.0	11.2	6.7	7.5	7.0	7.7	8.0
3H	11.5	12.2	11.9	12.5	12.8	7.7	8.4	8.1	8.7	9.0
4H	12.7	13.3	13.1	13.6	14.0	8.3	8.9	8.7	9.2	9.6
6H	14.2	14.7	14.6	15.1	15.5	8.8	9.3	9.2	9.7	10.0
8H	15.1	15.6	15.5	16.0	16.4	9.0	9.5	9.4	9.8	10.3
12H	16.3	16.7	16.7	17.1	17.5	9.1	9.6	9.6	10.0	10.4
8H 4H	13.0	13.5	13.4	13.9	14.3	9.5	10.0	9.9	10.4	10.8
6H	14.8	15.2	15.3	15.7	16.1	10.6	11.0	11.0	11.4	11.9
8H	16.0	16.4	16.5	16.8	17.3	11.1	11.5	11.6	11.9	12.4
12H	17.5	17.8	18.0	18.3	18.8	11.6	11.9	12.1	12.4	12.9
12H 4H	13.1	13.5	13.5	13.9	14.3	9.9	10.4	10.4	10.8	11.2
6H	15.0	15.3	15.4	15.8	16.3	11.3	11.7	11.8	12.1	12.6
8H	16.3	16.6	16.8	17.1	17.6	12.1	12.4	12.6	12.9	13.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.5 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.5				

CIE Pub.117, 84.88 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.6)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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-271102 4000K

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

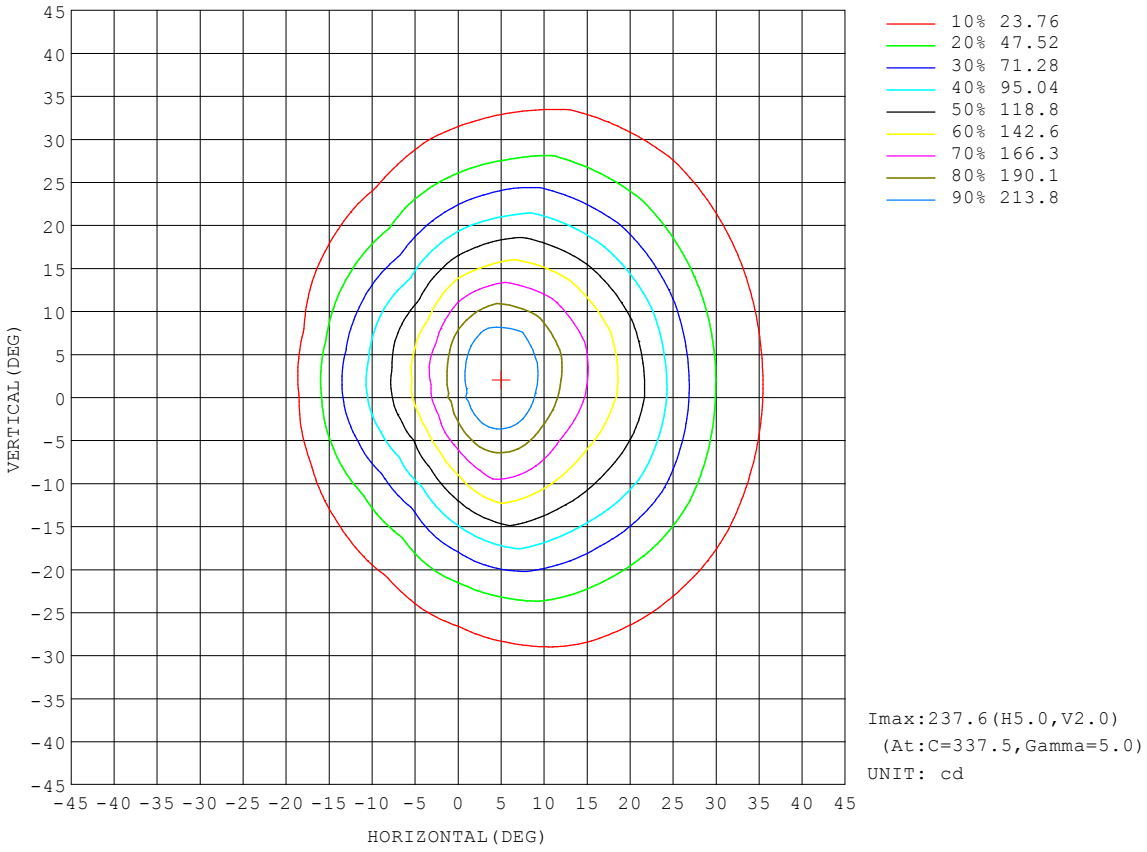
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	85	78	74	84	78	74	83	77	74	70
0.80	92	86	82	91	85	82	90	85	81	77
1.00	97	90	87	96	90	86	94	90	86	81
1.25	101	95	91	99	94	91	97	93	90	85
1.50	103	98	94	102	97	94	100	96	93	88
2.00	106	102	98	105	101	97	102	98	96	90
2.50	108	104	101	107	103	100	103	100	97	91
3.00	110	106	103	108	105	102	104	102	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	109	111	109	107	107	105	104	95
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:2023-12-15

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-271102 4000K

ISOCANDELA DIAGRAM

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

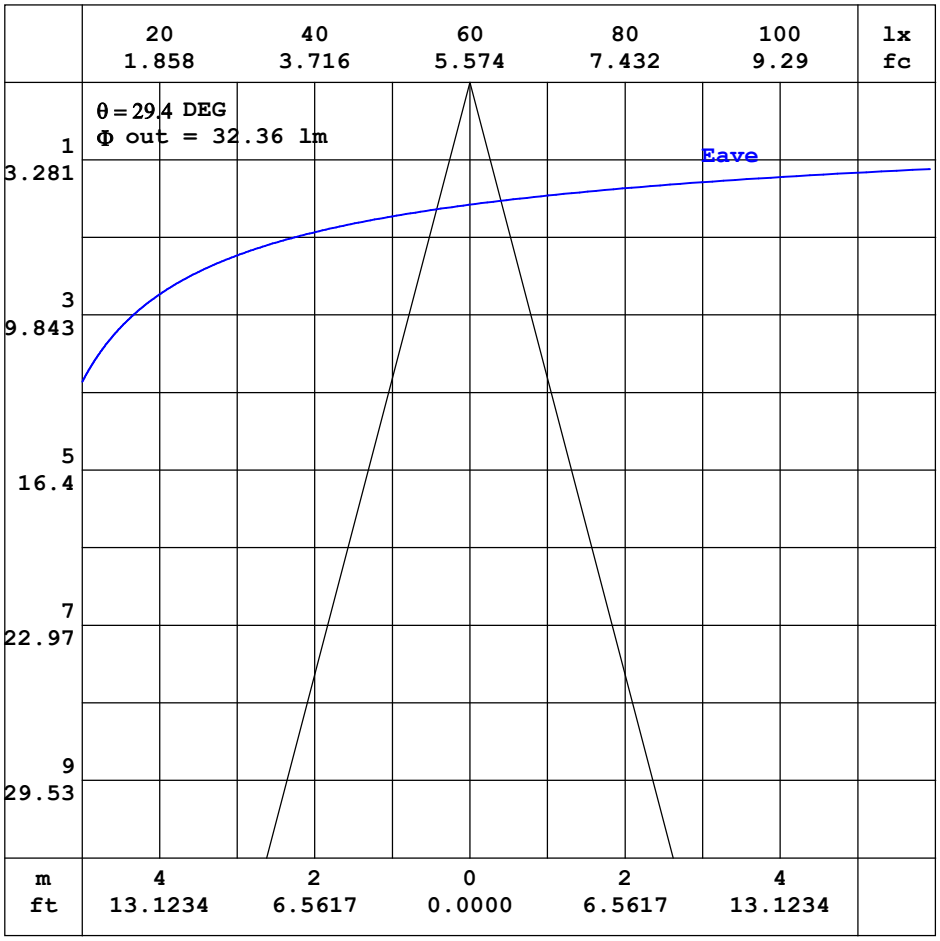


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271102 4000K

AAI CURVES

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



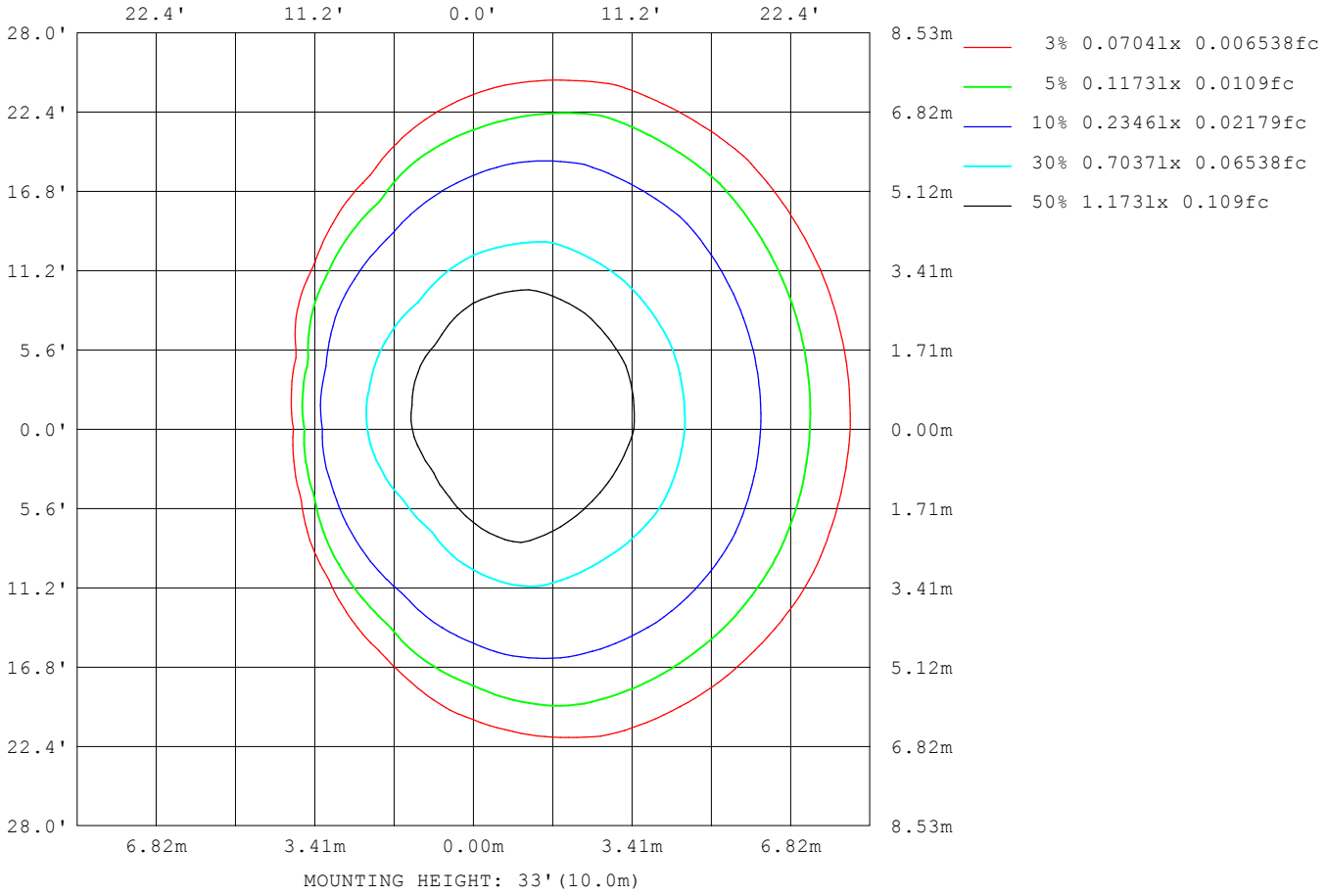
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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-271102 4000K

ISOLUX DIAGRAM

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 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:2023-12-15

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-271102 4000K

LED Avg.L Report

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

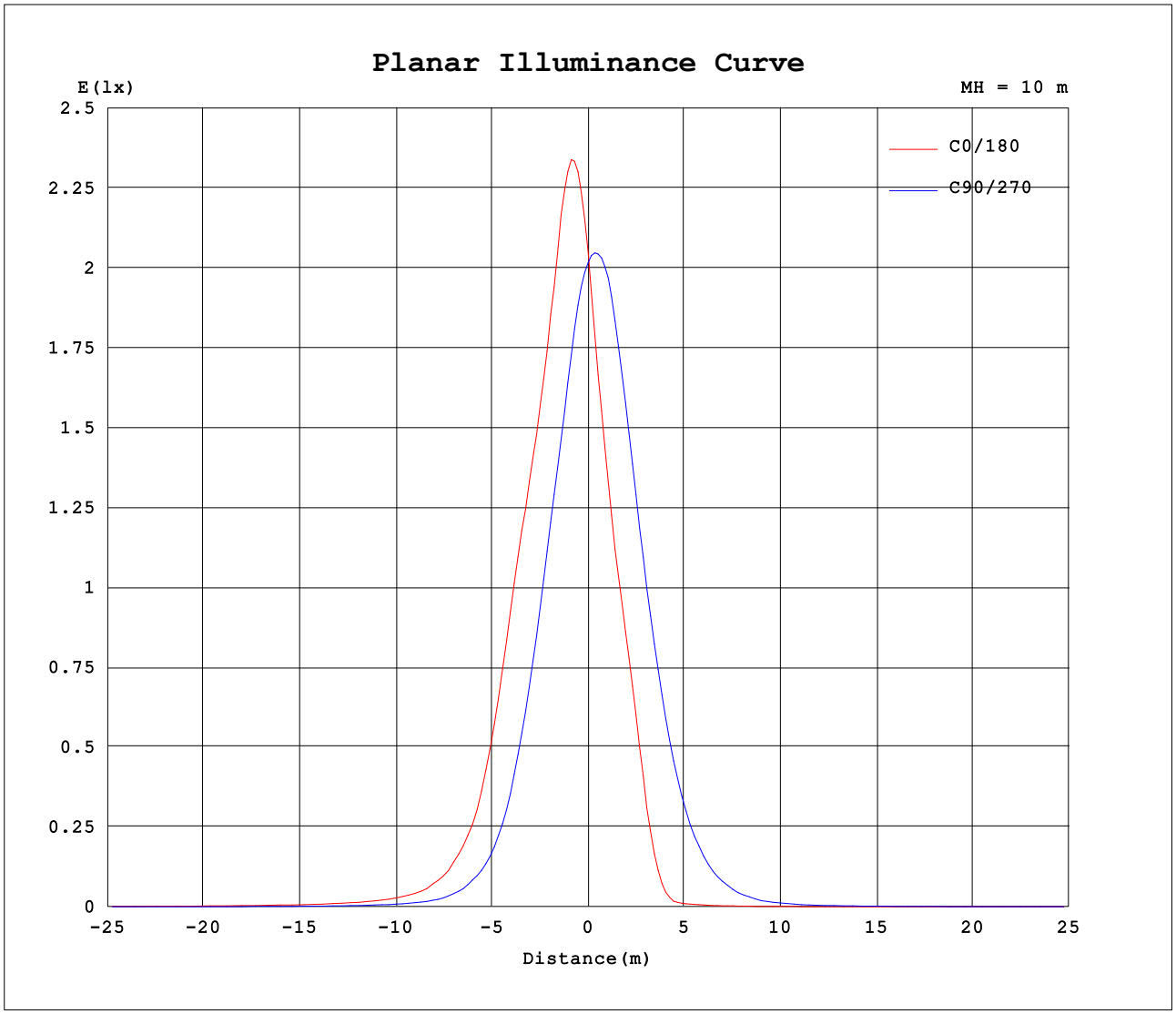
AvgL	cd/m2
L_0~180(65)av	37
L_0~180(75)av	48
L_0~180(85)av	130
L_90~270(65)av	14
L_90~270(75)av	8
L_90~270(85)av	6
L_45(65)av	33
L_45(75)av	43
L_45(85)av	112

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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-271102 4000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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-271102 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1098A P:2.6349W PF:1.0000 Freq:50.00Hz Lamp Flux:84.8822x1 lm		
NAME: HCP-271102 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	205	202	203	202	202	202	200	202	205	202	203	202	202	202	200	202			
5	237	228	213	196	175	158	145	142	146	151	164	180	203	222	234	238			
10	203	192	181	168	135	106	92.5	94.0	99.6	106	119	138	175	205	219	214			
15	164	150	139	128	94.3	63.5	53.1	52.8	55.8	63.3	77.4	93.5	132	161	174	175			
20	132	116	99.7	85.7	57.4	33.8	24.1	15.8	13.8	20.3	39.3	54.9	89.5	119	130	137			
25	87.8	79.1	63.1	49.7	30.1	15.1	7.15	2.53	1.94	3.05	12.9	28.6	53.8	80.2	88.8	92.1			
30	46.9	43.4	35.5	26.4	15.1	5.96	1.95	1.12	1.02	1.23	2.99	11.8	29.3	47.6	54.0	51.4			
35	25.5	22.3	18.2	13.8	7.52	2.62	1.11	0.70	0.65	0.77	1.27	4.70	14.4	25.3	29.3	27.2			
40	12.6	11.7	9.79	7.25	3.84	1.51	0.76	0.48	0.43	0.56	0.85	2.14	7.02	12.6	14.6	14.1			
45	7.89	7.25	6.09	4.52	2.37	1.02	0.50	0.30	0.31	0.36	0.53	1.34	3.37	6.42	7.90	8.04			
50	5.48	5.14	4.39	3.24	1.63	0.69	0.32	0.24	0.24	0.30	0.36	0.91	1.97	4.09	5.38	5.49			
55	4.26	4.04	3.52	2.57	1.16	0.44	0.19	0.13	0.11	0.21	0.23	0.63	1.35	3.15	4.16	4.28			
60	3.49	3.37	2.92	2.08	0.80	0.25	0.12	0.01	0.01	0.06	0.11	0.41	0.97	2.62	3.44	3.53			
65	3.08	2.94	2.52	1.72	0.52	0.12	0.05	0.00	0.01	0.02	0.03	0.25	0.67	2.25	2.94	3.06			
70	2.72	2.62	2.25	1.49	0.32	0.04	0.02	0.00	0.01	0.01	0.01	0.14	0.43	1.98	2.61	2.71			
75	2.46	2.44	2.05	1.29	0.17	0.02	0.01	0.01	0.01	0.01	0.01	0.07	0.24	1.78	2.38	2.45			
80	2.26	2.25	1.89	1.15	0.10	0.00	0.01	0.01	0.01	0.01	0.01	0.04	0.11	1.59	2.15	2.23			
85	2.25	2.25	1.85	1.08	0.06	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.05	1.47	2.03	2.19			
90	2.27	2.26	1.74	0.96	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.03	1.36	2.01	2.24			
95	1.87	1.65	1.17	0.58	0.00	0.01	0.01	0.02	0.03	0.01	0.02	0.01	0.00	1.11	1.71	1.94			
100	0.45	0.22	0.03	0.01	0.00	0.01	0.01	0.03	0.03	0.01	0.02	0.01	0.00	0.39	0.65	0.63			
105	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.00	0.01			
110	0.00	0.00	0.00	0.01	0.00	0.03	0.02	0.04	0.04	0.01	0.03	0.01	0.01	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.01	0.00	0.05	0.03	0.07	0.06	0.03	0.04	0.01	0.01	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.03	0.04	0.08	0.05	0.10	0.08	0.04	0.07	0.02	0.03	0.00	0.00	0.00			
125	0.00	0.01	0.00	0.06	0.04	0.13	0.10	0.16	0.13	0.10	0.10	0.03	0.05	0.00	0.01	0.00			
130	0.00	0.03	0.03	0.10	0.10	0.20	0.19	0.24	0.21	0.17	0.16	0.09	0.08	0.03	0.02	0.00			
135	0.03	0.07	0.06	0.17	0.19	0.29	0.30	0.35	0.30	0.24	0.23	0.16	0.13	0.04	0.06	0.01			
140	0.07	0.13	0.15	0.26	0.30	0.40	0.40	0.47	0.42	0.36	0.33	0.23	0.21	0.11	0.12	0.04			
145	0.17	0.23	0.24	0.36	0.39	0.51	0.51	0.59	0.55	0.49	0.44	0.33	0.30	0.21	0.20	0.12			
150	0.27	0.35	0.38	0.47	0.52	0.60	0.62	0.69	0.66	0.58	0.55	0.44	0.41	0.31	0.30	0.24			
155	0.39	0.47	0.49	0.57	0.59	0.68	0.67	0.73	0.71	0.66	0.64	0.53	0.52	0.43	0.42	0.36			
160	0.51	0.58	0.59	0.64	0.64	0.72	0.73	0.73	0.72	0.69	0.69	0.60	0.60	0.51	0.53	0.48			
165	0.61	0.66	0.65	0.69	0.65	0.72	0.73	0.73	0.72	0.72	0.71	0.64	0.65	0.58	0.61	0.58			
170	0.66	0.71	0.66	0.70	0.66	0.72	0.73	0.73	0.73	0.72	0.72	0.65	0.69	0.65	0.68	0.66			
175	0.73	0.73	0.67	0.72	0.67	0.73	0.73	0.73	0.73	0.73	0.73	0.67	0.71	0.67	0.70	0.67			
180	0.73	0.74	0.73	0.73	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.71	0.73	0.72	0.73	0.73			

C Range: 0 - 360DEG
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