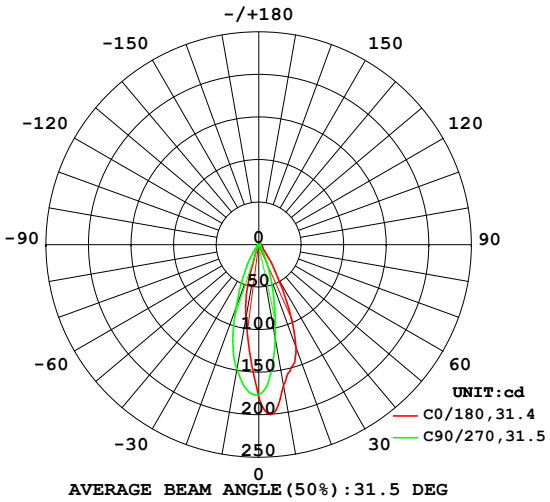
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

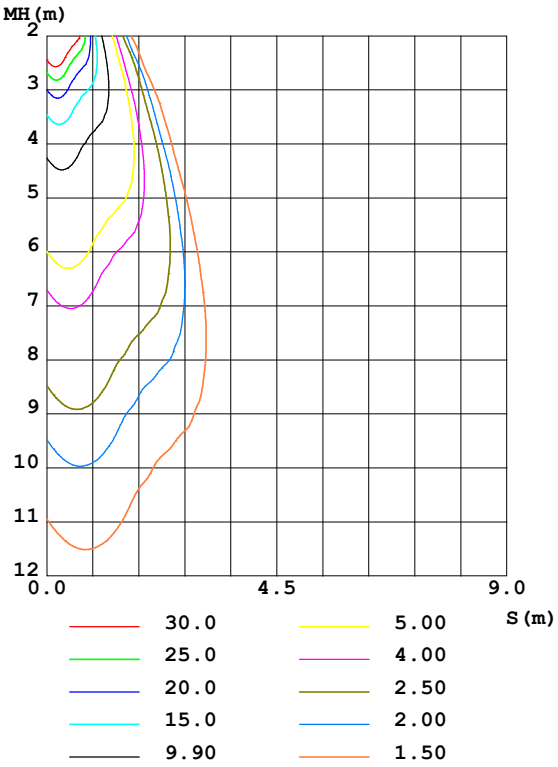
DATA OF LAMP		PHOTOMETRIC DATA Eff: 27.05 lm/W			
MODEL	HCP-271102 3000K	Imax(cd)	201.0	S/MH(C0/180)	0.32
NOMINAL POWER(W)	2.5W	LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	72.950	η UP,DN(C0-180)	1.0,49.8
NOMINAL FLUX(lm)	72.9499	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.9,48.3
LAMPS INSIDE	1	η up(%)	1.8	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	23.997	η down(%)	98.2	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):31.5 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 3000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	168.3	154.0	112.4	82.23	87.63	98.85	148.8	192.0	0- 10	14.39	14.39	19.7,19.7
20	127.7	99.22	41.38	21.97	12.15	33.85	78.83	94.35	10- 20	26.38	40.77	55.9,55.9
30	45.78	36.78	10.11	1.662	0.8894	2.708	25.58	38.98	20- 30	17.36	58.12	79.7,79.7
40	11.74	9.281	2.913	0.6304	0.3728	0.7723	6.194	10.58	30- 40	6.808	64.93	89,89
50	4.838	3.938	1.287	0.2609	0.2344	0.3169	1.714	4.262	40- 50	2.499	67.43	92.4,92.4
60	3.072	2.594	0.6433	0.0957	0.0043	0.0955	0.8333	2.735	50- 60	1.464	68.90	94.4,94.4
70	2.394	2.011	0.2608	0.0174	0.0043	0.0043	0.3686	2.076	60- 70	1.071	69.97	95.9,95.9
80	1.994	1.711	0.0826	0.0087	0.0087	0.0043	0.0955	1.689	70- 80	0.8643	70.83	97.1,97.1
90	1.978	1.586	0	0.0087	0.0130	0.0087	0.0129	1.568	80- 90	0.7729	71.60	98.2,98.2
100	0.3988	0.0276	0	0.0087	0.0260	0.0130	0.0043	0.5187	90-100	0.5358	72.14	98.9,98.9
110	0	0	0	0.0087	0.0390	0.0261	0.0043	0	100-110	0.0225	72.16	98.9,98.9
120	0	0	0	0.0347	0.0783	0.0652	0.0261	0.0000	110-120	0.0164	72.18	98.9,98.9
130	0	0.0129	0.0865	0.1559	0.1913	0.1522	0.0696	0.0175	120-130	0.0445	72.22	99,99
140	0.0434	0.1085	0.2386	0.3298	0.3737	0.3085	0.1869	0.0957	130-140	0.1088	72.33	99.2,99.2
150	0.2345	0.2995	0.3994	0.5169	0.5692	0.4867	0.3608	0.2564	140-150	0.1878	72.52	99.4,99.4
160	0.4386	0.4903	0.5327	0.5861	0.6444	0.5951	0.5257	0.4606	150-160	0.2143	72.73	99.7,99.7
170	0.5911	0.5818	0.5894	0.5913	0.6486	0.5986	0.5907	0.5864	160-170	0.1587	72.89	99.9,99.9
180	0.6471	0.5950	0.5950	0.5950	0.6602	0.5993	0.5950	0.5993	170-180	0.0569	72.95	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

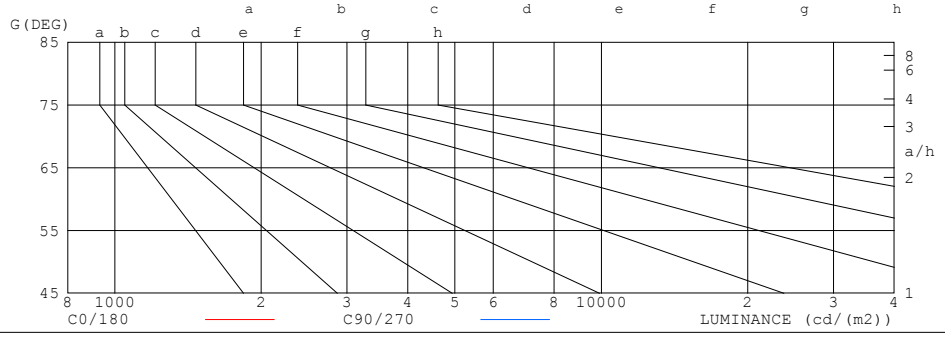
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271102 3000K

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 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	228	5
80	115	5
75	84	5
70	70	8
65	64	10
60	61	13
55	66	16
50	75	20
45	100	26

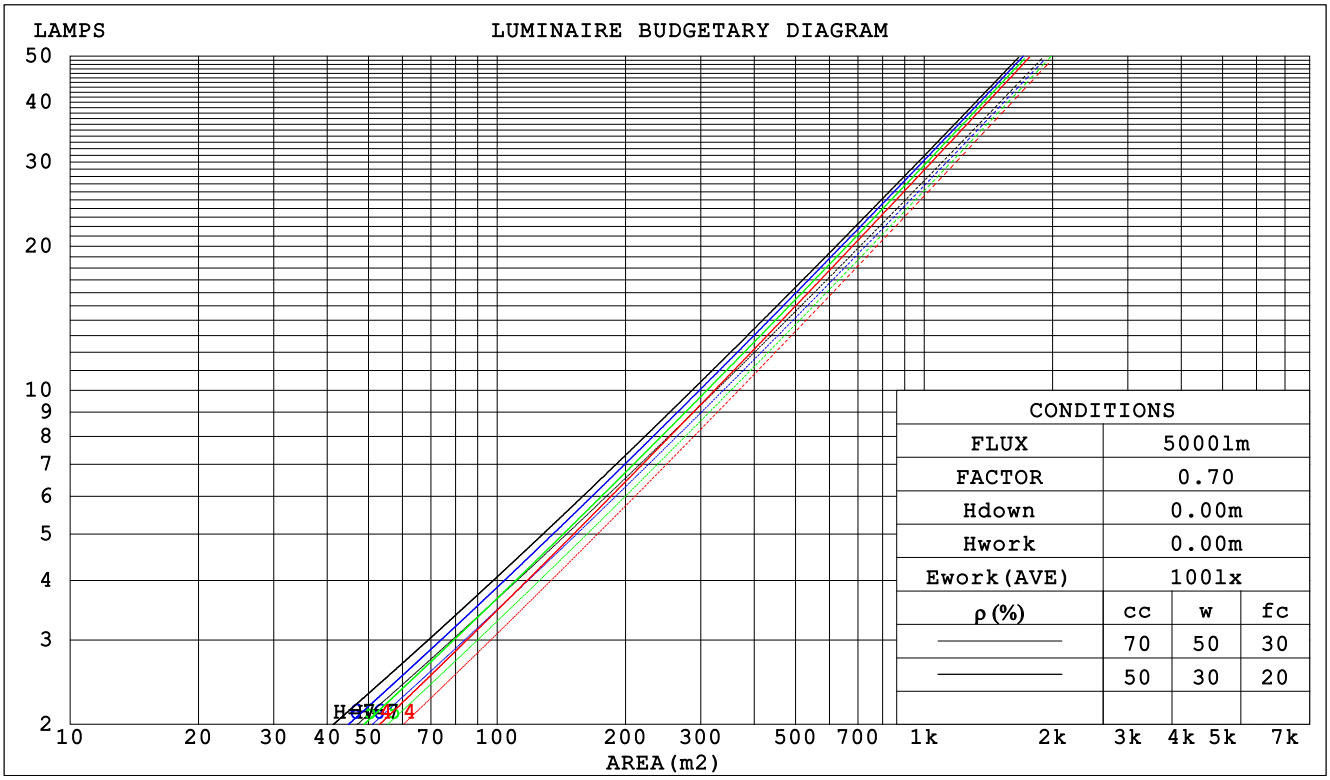
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-15

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 3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 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	1.19	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	1.08	1.05	1.08	1.05	1.03	1.03	1.02	.00	.99	.98	.97	.96	.94	.93	.92
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	.82	.88	.84	.80	.86	.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	.66	.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	.61
10.0	.69	.64	.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 3000K

WEC AND CCEC

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 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	.183	.104	.033	.176	.100	.032	.162	.093	.030	.149	.086	.028	.138	.080	.026	
2.0	.168	.092	.028	.162	.089	.027	.150	.084	.026	.140	.078	.025	.130	.073	.023	
3.0	.156	.083	.025	.151	.081	.024	.141	.076	.023	.132	.072	.022	.123	.068	.021	
4.0	.146	.076	.022	.141	.074	.022	.133	.070	.021	.125	.067	.020	.117	.064	.019	
5.0	.137	.070	.020	.133	.068	.020	.126	.065	.019	.119	.063	.019	.112	.060	.018	
6.0	.129	.065	.019	.126	.064	.018	.119	.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	.171	.159	.159	.147	.136	.109	.101	.094	.063	.059	.055	.020	.019	.018	
2.0	.170	.147	.127	.146	.126	.110	.100	.087	.077	.058	.051	.045	.018	.016	.015	
3.0	.157	.128	.105	.134	.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	.010	
5.0	.136	.101	.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	.067	.045	.068	.047	.032	.040	.028	.019	.013	.009	.006	
9.0	.110	.072	.047	.094	.063	.041	.065	.044	.029	.038	.026	.017	.012	.009	.006	
10.0	.105	.068	.043	.090	.059	.038	.063	.041	.027	.037	.024	.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 3000K

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 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	10.4	11.3	10.7	11.5	11.7	5.8	6.7	6.1	6.9	7.1
	3H	11.5	12.3	11.8	12.6	12.8	6.3	7.1	6.6	7.3	7.5
	4H	12.4	13.1	12.7	13.4	13.6	6.5	7.2	6.8	7.5	7.7
	6H	13.4	14.2	13.8	14.4	14.7	6.6	7.3	6.9	7.6	7.9
	8H	14.2	14.9	14.5	15.1	15.4	6.7	7.3	7.0	7.6	7.9
	12H	15.1	15.8	15.4	16.1	16.4	6.7	7.3	7.0	7.6	8.0
4H	2H	10.6	11.3	10.9	11.6	11.8	6.8	7.6	7.1	7.8	8.1
	3H	12.0	12.7	12.4	13.0	13.3	7.8	8.5	8.2	8.8	9.1
	4H	13.1	13.7	13.5	14.1	14.4	8.4	9.0	8.7	9.3	9.6
	6H	14.6	15.1	15.0	15.5	15.8	8.8	9.4	9.2	9.7	10.1
	8H	15.5	16.0	15.9	16.3	16.7	9.0	9.5	9.4	9.9	10.3
	12H	16.6	17.0	17.0	17.5	17.9	9.2	9.6	9.6	10.0	10.5
8H	4H	13.4	13.9	13.8	14.3	14.7	9.7	10.2	10.1	10.6	11.0
	6H	15.2	15.6	15.7	16.0	16.5	10.7	11.1	11.2	11.5	12.0
	8H	16.4	16.7	16.9	17.2	17.7	11.2	11.6	11.7	12.0	12.5
	12H	17.8	18.1	18.3	18.6	19.1	11.7	12.0	12.2	12.5	13.0
12H	4H	13.5	13.9	13.9	14.3	14.7	10.1	10.6	10.5	11.0	11.4
	6H	15.4	15.7	15.8	16.2	16.6	11.5	11.8	11.9	12.3	12.8
	8H	16.7	17.0	17.2	17.4	18.0	12.2	12.6	12.7	13.0	13.5

Variations with the observer position at spacings:		
S = 1.0H	+ 0.3 / - 0.3	+ 0.3 / - 0.3
1.5H	+ 0.6 / - 0.3	+ 0.2 / - 0.3
2.0H	+ 0.2 / - 0.3	+ 0.2 / - 0.6

CIE Pub.117, 72.95 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -9.1)

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 3000K

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

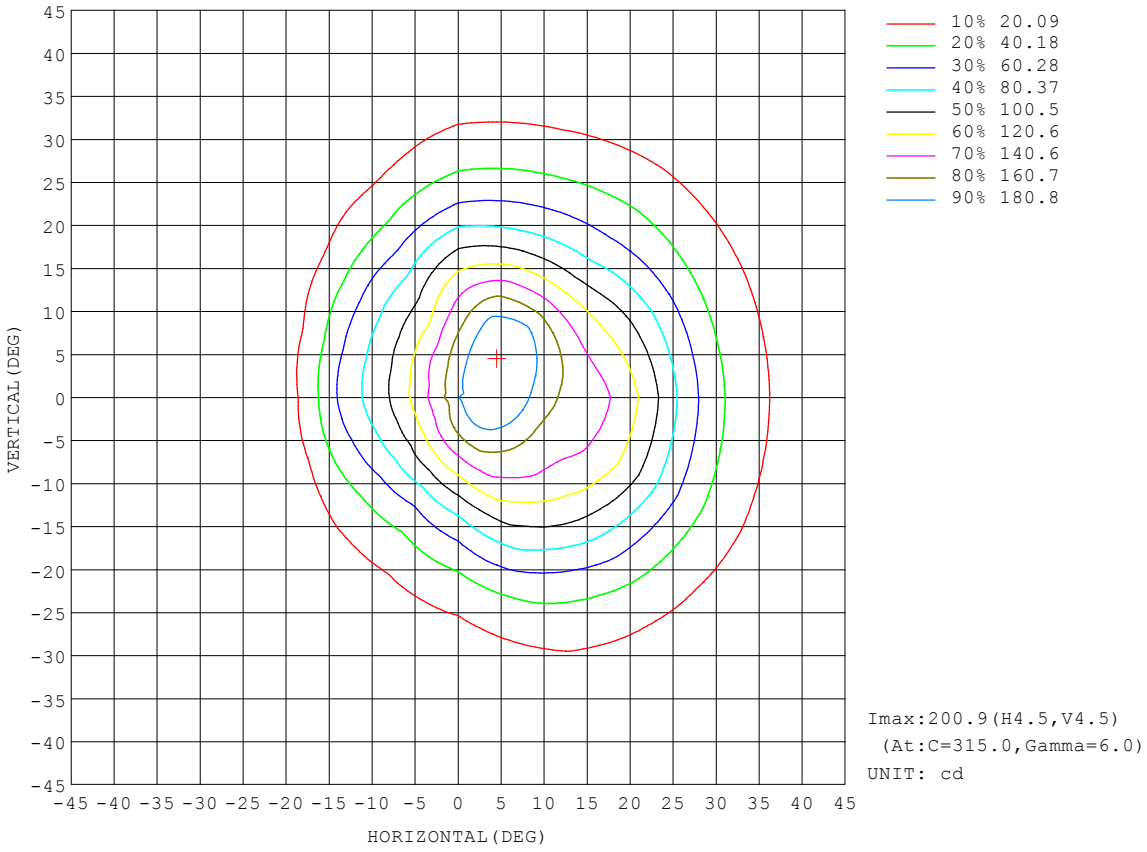
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	85	78	74	84	78	74	83	77	74	70
0.80	92	86	82	91	86	82	90	85	81	77
1.00	97	91	87	96	90	86	94	90	86	81
1.25	101	95	91	100	94	91	97	93	90	85
1.50	104	98	95	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	98	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 3000K

ISOCANDELA DIAGRAM

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

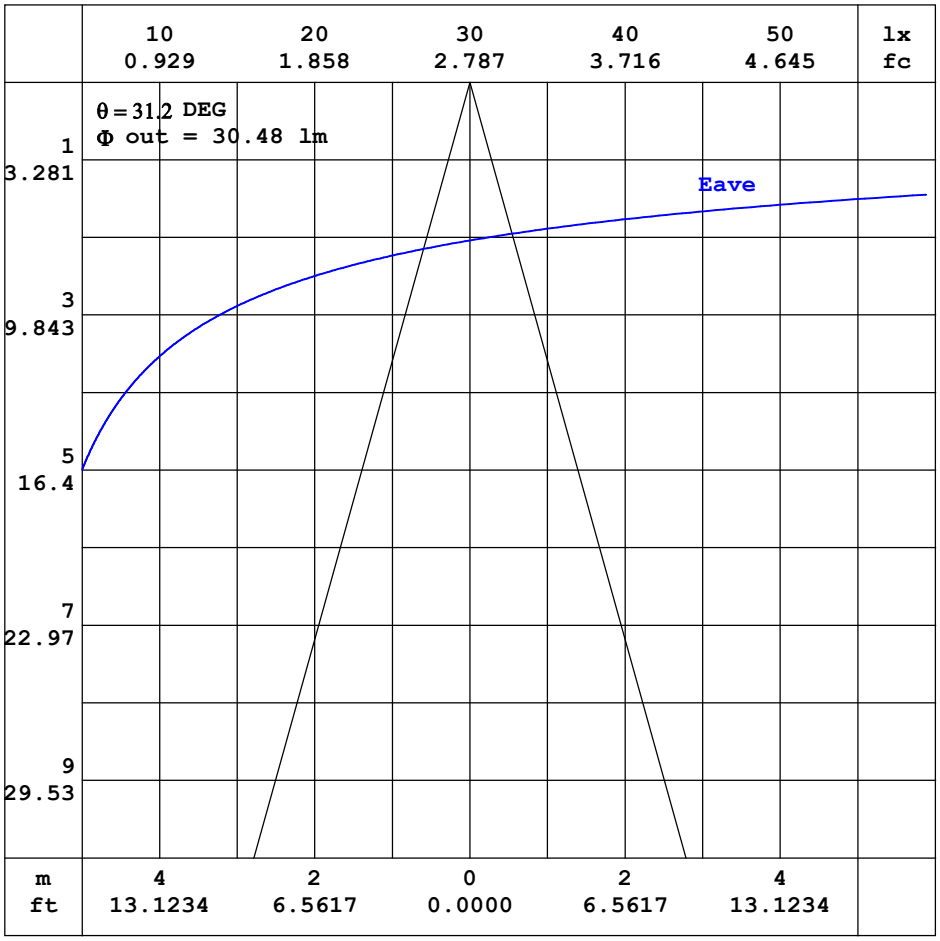


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271102 3000K

AAI CURVES

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



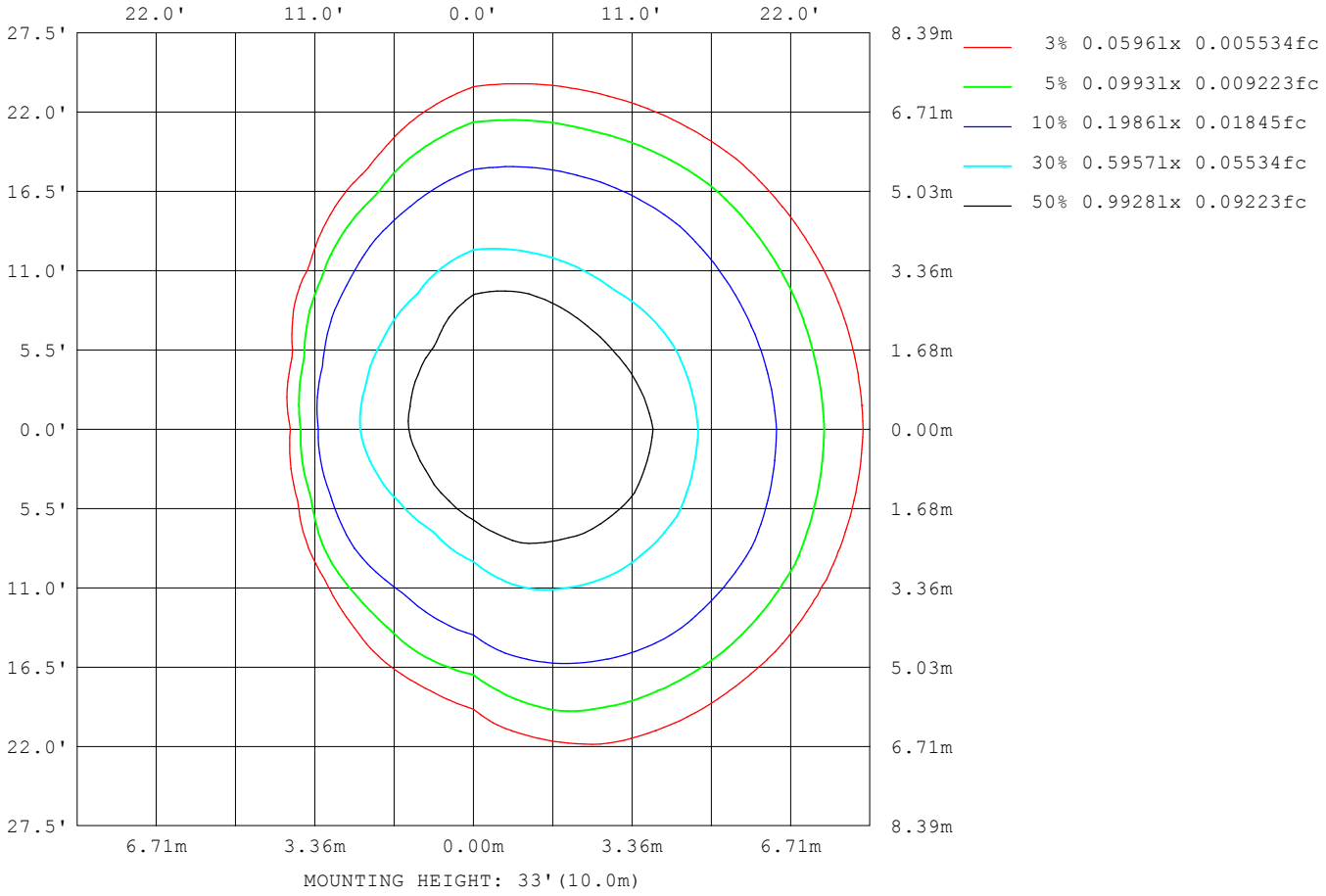
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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 3000K

ISOLUX DIAGRAM

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 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:2023-12-15

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 3000K

LED Avg.L Report

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

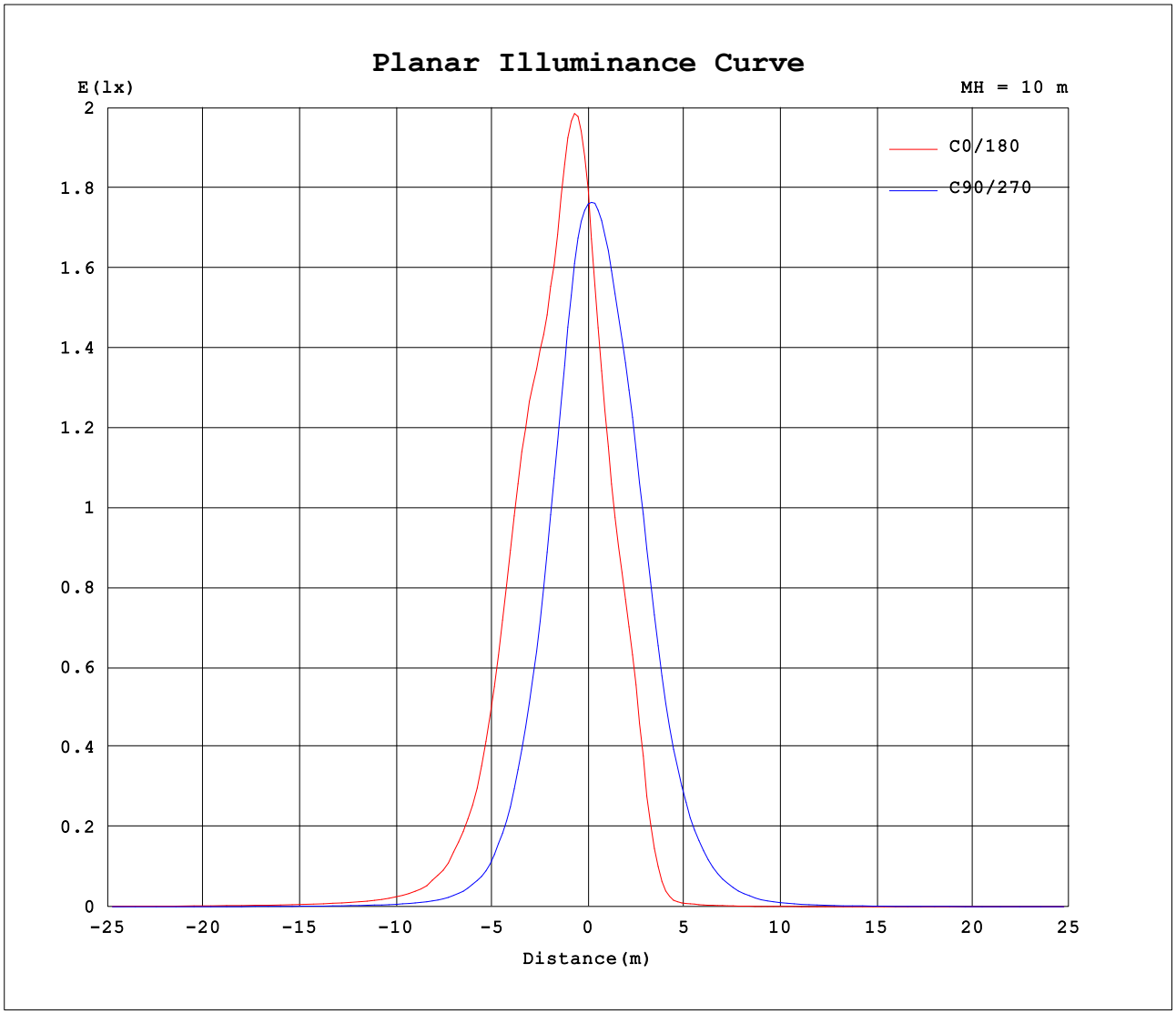
AvgL	cd/m2
L_0~180(65)av	32
L_0~180(75)av	42
L_0~180(85)av	115
L_90~270(65)av	12
L_90~270(75)av	7
L_90~270(85)av	4
L_45(65)av	28
L_45(75)av	36
L_45(85)av	94

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 3000K

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 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1124A P:2.6973W PF:1.0000 Freq:50.00Hz Lamp Flux:72.9499x1 lm		
NAME: HCP-271102 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	180	177	178	176	176	176	174	176	180	177	178	176	176	176	174	176			
5	199	192	183	171	155	141	128	123	126	129	139	151	170	187	199	200			
10	168	159	154	140	112	91.1	82.2	82.3	87.6	90.4	98.8	113	149	182	192	180			
15	149	143	129	107	71.0	51.0	46.5	49.0	51.0	56.0	66.7	82.5	118	136	144	145			
20	128	121	99.2	73.4	41.4	26.8	22.0	13.6	12.1	17.6	33.9	50.3	78.8	85.7	94.3	114			
25	84.6	81.4	64.5	43.2	21.3	12.5	6.09	2.08	1.68	2.73	11.2	26.9	46.8	54.7	62.5	77.0			
30	45.8	45.5	36.8	23.3	10.1	5.38	1.66	0.93	0.89	1.09	2.71	10.6	25.6	31.3	39.0	43.2			
35	25.0	22.9	18.0	12.1	5.24	2.40	0.92	0.58	0.58	0.69	1.12	4.11	12.7	16.0	20.3	22.6			
40	11.7	11.3	9.28	6.38	2.91	1.27	0.63	0.39	0.37	0.50	0.77	1.79	6.19	8.29	10.6	11.6			
45	7.09	6.70	5.58	3.91	1.84	0.82	0.42	0.25	0.26	0.33	0.49	1.17	2.95	4.71	6.17	6.63			
50	4.84	4.64	3.94	2.77	1.29	0.56	0.26	0.17	0.23	0.27	0.32	0.80	1.71	3.17	4.26	4.56			
55	3.76	3.63	3.13	2.18	0.93	0.36	0.16	0.10	0.10	0.20	0.20	0.56	1.16	2.47	3.33	3.56			
60	3.07	3.02	2.59	1.76	0.64	0.21	0.10	0.00	0.00	0.05	0.10	0.37	0.83	2.06	2.74	2.93			
65	2.72	2.65	2.24	1.49	0.42	0.10	0.05	0.00	0.00	0.01	0.03	0.22	0.57	1.76	2.34	2.54			
70	2.39	2.37	2.01	1.27	0.26	0.03	0.02	0.00	0.00	0.01	0.00	0.13	0.37	1.56	2.08	2.24			
75	2.17	2.19	1.84	1.10	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.07	0.23	1.39	1.88	2.03			
80	1.99	2.09	1.71	0.99	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.03	0.10	1.24	1.69	1.84			
85	1.98	2.06	1.67	0.93	0.04	0.00	0.01	0.01	0.01	0.00	0.01	0.02	0.03	1.11	1.57	1.80			
90	1.98	2.05	1.59	0.84	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	1.03	1.57	1.83			
95	1.66	1.52	1.09	0.52	0.00	0.01	0.01	0.02	0.02	0.00	0.01	0.00	0.00	0.86	1.36	1.62			
100	0.40	0.19	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.00	0.01	0.00	0.00	0.31	0.52	0.53			
105	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.01			
110	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.04	0.04	0.00	0.03	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.01	0.00	0.03	0.03	0.06	0.05	0.03	0.04	0.00	0.01	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.03	0.00	0.06	0.03	0.09	0.08	0.03	0.07	0.01	0.03	0.00	0.00	0.00			
125	0.00	0.01	0.00	0.04	0.03	0.10	0.09	0.13	0.13	0.09	0.10	0.03	0.04	0.00	0.01	0.00			
130	0.00	0.03	0.01	0.08	0.09	0.15	0.16	0.20	0.19	0.14	0.15	0.07	0.07	0.00	0.02	0.00			
135	0.02	0.06	0.05	0.13	0.14	0.23	0.24	0.30	0.27	0.24	0.22	0.12	0.12	0.03	0.05	0.00			
140	0.04	0.12	0.11	0.21	0.24	0.33	0.33	0.40	0.37	0.31	0.31	0.22	0.19	0.10	0.10	0.03			
145	0.13	0.20	0.23	0.30	0.31	0.43	0.46	0.51	0.48	0.40	0.40	0.31	0.27	0.17	0.17	0.10			
150	0.23	0.30	0.30	0.39	0.40	0.51	0.52	0.59	0.57	0.51	0.49	0.38	0.36	0.26	0.26	0.20			
155	0.33	0.40	0.38	0.48	0.50	0.58	0.57	0.60	0.63	0.56	0.56	0.46	0.45	0.37	0.36	0.30			
160	0.44	0.50	0.49	0.54	0.53	0.59	0.59	0.60	0.64	0.59	0.60	0.52	0.53	0.45	0.46	0.39			
165	0.52	0.56	0.52	0.58	0.58	0.59	0.59	0.60	0.65	0.59	0.60	0.54	0.57	0.53	0.53	0.50			
170	0.59	0.61	0.58	0.60	0.59	0.59	0.59	0.60	0.65	0.59	0.60	0.58	0.59	0.54	0.59	0.53			
175	0.59	0.63	0.60	0.60	0.59	0.59	0.59	0.60	0.65	0.59	0.60	0.59	0.59	0.59	0.60	0.59			
180	0.65	0.65	0.60	0.60	0.60	0.60	0.60	0.60	0.66	0.60	0.60	0.60	0.60	0.60	0.60	0.59			

C Range: 0 - 360DEG
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