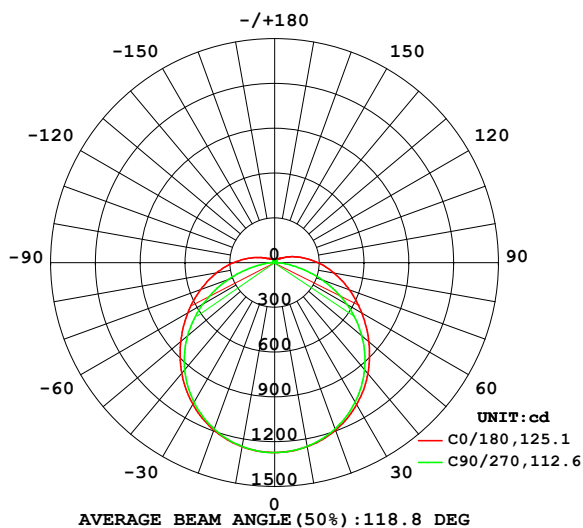


LUMINAIRE PHOTOMETRIC TEST REPORT

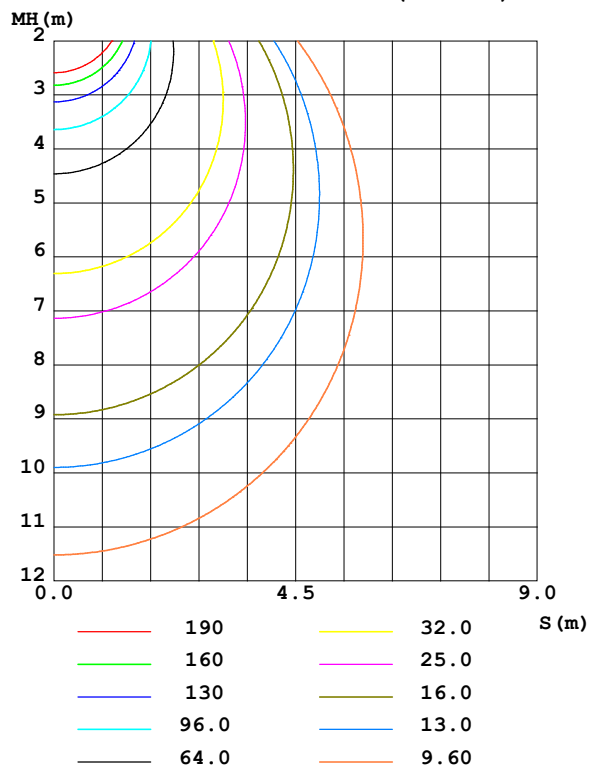
Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.37 lm/W			
MODEL		I _{max} (cd)	1272	S/MH(C0/180)	1.28
NOMINAL POWER(W)	35.3	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4419.4	η UP,DN(C0-180)	4.0,46.3
NOMINAL FLUX(lm)	4419.42	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.8,46.0
LAMPS INSIDE	1	η up (%)	7.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down (%)	92.2	CIBSE SHR MAX	1.35

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: 2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity: 65.0%
Test Distance: 12.020m [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	1252	1251	1250	1252	1252	1252	1251	1251	0- 10	120.5	120.5	2.73,2.73
20	1194	1189	1185	1190	1193	1190	1186	1190	10- 20	346.0	466.5	10.6,10.6
30	1099	1089	1079	1090	1097	1089	1081	1090	20- 30	527.3	993.8	22.5,22.5
40	971.5	953.9	936.8	954.6	967.8	952.0	937.5	953.9	30- 40	641.5	1635	37,37
50	824.1	791.5	761.8	792.3	820.6	787.2	760.9	791.2	40- 50	675.2	2310	52.3,52.3
60	674.2	614.7	558.9	618.4	672.4	609.8	554.7	616.2	50- 60	629.9	2940	66.5,66.5
70	533.3	444.0	337.7	451.8	527.0	437.7	330.3	447.1	60- 70	520.9	3461	78.3,78.3
80	404.4	297.8	126.1	303.6	394.7	288.4	118.0	304.3	70- 80	377.5	3839	86.9,86.9
90	289.6	181.5	6.462	182.6	276.1	168.5	4.393	189.0	80- 90	237.7	4076	92.2,92.2
100	193.3	100.3	6.385	96.92	176.7	85.84	5.293	106.3	90-100	138.5	4215	95.4,95.4
110	119.0	53.91	8.674	51.00	103.6	45.69	7.646	57.40	100-110	78.09	4293	97.1,97.1
120	66.82	33.27	11.09	33.90	59.25	31.53	10.05	34.07	110-120	44.15	4337	98.1,98.1
130	44.94	28.05	13.42	29.92	43.16	27.95	12.31	28.46	120-130	28.12	4365	98.8,98.8
140	35.05	24.81	15.61	27.42	35.25	25.76	14.51	24.70	130-140	20.79	4386	99.2,99.2
150	28.58	21.60	17.56	24.76	29.81	23.38	16.50	21.47	140-150	15.17	4401	99.6,99.6
160	23.87	20.34	19.10	22.55	25.04	21.15	18.57	19.81	150-160	10.27	4412	99.8,99.8
170	20.68	19.95	20.15	21.03	21.49	20.54	19.93	19.84	160-170	5.898	4417	100,100
180	20.81	20.41	20.55	20.52	20.86	20.48	20.56	20.45	170-180	1.948	4419	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1973.8 lm

%lum = 44.7%

%lamp = 44.7%

Conical surface Flux(120deg): 2940.3 lm

%lum = 66.5%

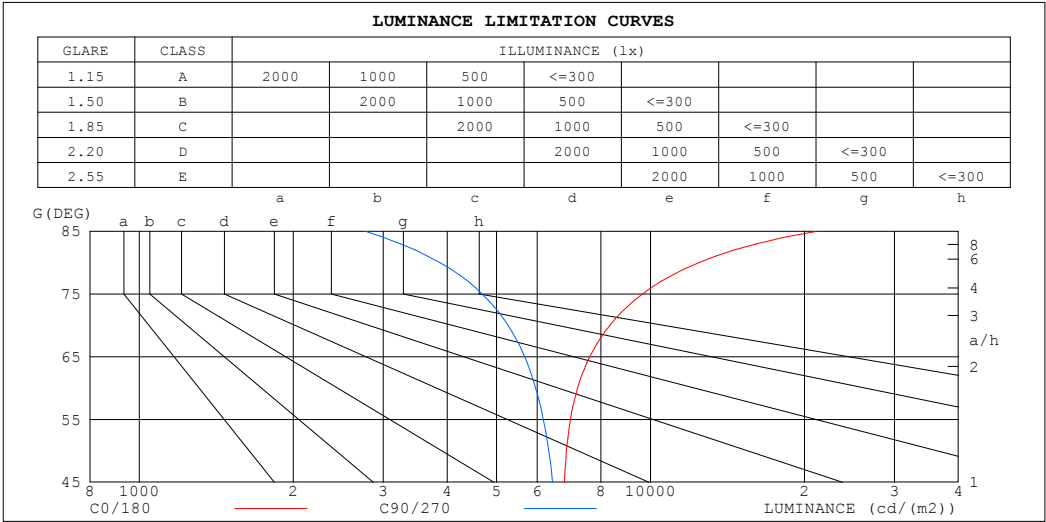
%lamp = 66.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-04-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
 Humidity:65.0%
 Test Distance:12.020m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21138	2769
80	12435	3873
75	9638	4682
70	8327	5267
65	7605	5670
60	7200	5962
55	6971	6171
50	6845	6321
45	6787	6436

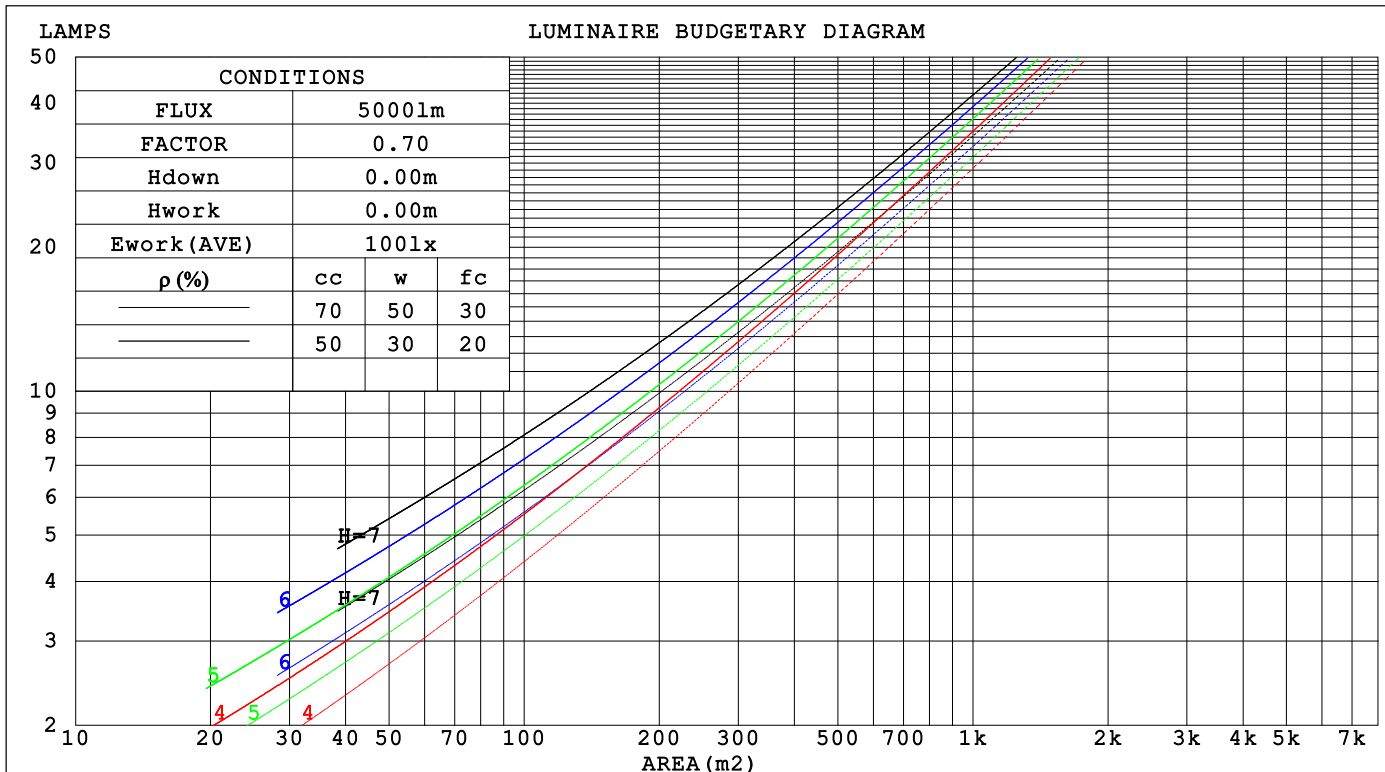
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.92
1.0	.00	.95	.90	.97	.92	.88	.91	.87	.84	.86	.83	.80	.81	.78	.76	.73
2.0	.86	.78	.72	.83	.77	.71	.78	.73	.68	.74	.69	.65	.70	.66	.63	.60
3.0	.75	.66	.59	.73	.65	.58	.69	.62	.56	.65	.59	.54	.61	.56	.52	.50
4.0	.66	.57	.50	.64	.56	.49	.61	.53	.48	.57	.51	.46	.54	.49	.45	.42
5.0	.59	.50	.43	.57	.49	.42	.54	.47	.41	.51	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.37	.52	.43	.37	.49	.41	.36	.46	.40	.35	.44	.38	.34	.32
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.31	.42	.36	.31	.40	.34	.30	.28
8.0	.44	.35	.29	.43	.34	.29	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.28	.23	.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:2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.355	.202	.064	.346	.197	.063	.328	.188	.060	.312	.180	.058	.296	.172	.055		
2.0	.317	.174	.053	.308	.170	.052	.292	.163	.050	.278	.156	.049	.264	.149	.047		
3.0	.286	.152	.046	.278	.149	.045	.264	.143	.043	.251	.137	.042	.238	.132	.041		
4.0	.260	.135	.040	.253	.132	.039	.240	.127	.038	.228	.123	.037	.217	.118	.036		
5.0	.238	.121	.035	.232	.119	.035	.220	.115	.034	.209	.110	.033	.199	.106	.032		
6.0	.219	.110	.031	.213	.108	.031	.203	.104	.030	.193	.100	.030	.184	.097	.029		
7.0	.203	.100	.028	.198	.098	.028	.188	.095	.027	.179	.092	.027	.171	.089	.026		
8.0	.189	.092	.026	.184	.091	.026	.175	.088	.025	.167	.085	.024	.160	.082	.024		
9.0	.176	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.022	.150	.076	.022		
10.0	.165	.079	.022	.161	.078	.022	.154	.076	.021	.147	.073	.021	.141	.071	.020		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.250	.250	.250	.213	.213	.213	.146	.146	.146	.084	.084	.084	.027	.027	.027		
1.0	.243	.215	.190	.208	.185	.164	.142	.127	.113	.082	.074	.066	.026	.024	.021		
2.0	.236	.192	.155	.202	.165	.134	.138	.114	.093	.080	.066	.055	.026	.021	.018		
3.0	.228	.175	.132	.195	.151	.115	.134	.105	.081	.077	.061	.047	.025	.020	.016		
4.0	.220	.162	.117	.189	.140	.102	.130	.097	.072	.075	.057	.042	.024	.019	.014		
5.0	.212	.152	.107	.182	.131	.093	.126	.092	.066	.073	.054	.039	.023	.018	.013		
6.0	.205	.144	.099	.176	.124	.087	.122	.087	.061	.071	.051	.036	.023	.017	.012		
7.0	.198	.137	.094	.170	.119	.082	.118	.083	.058	.068	.049	.034	.022	.016	.011		
8.0	.191	.131	.090	.165	.114	.078	.114	.080	.055	.066	.047	.033	.021	.015	.011		
9.0	.185	.126	.086	.160	.110	.075	.111	.077	.053	.064	.045	.032	.021	.015	.011		
10.0	.179	.122	.084	.155	.106	.073	.107	.075	.052	.063	.044	.031	.020	.014	.010		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm										
NAME: LED444-W46 (36W 250mA 4000K)					TYPE:			WEIGHT:		
SPEC.:					DIM.: 0.187450			SERIAL No.: 1		
MFR.:					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	19.3	20.7	19.6	21.1	21.4	18.5	20.0	18.9	20.3	20.7
3H	21.4	22.8	21.8	23.2	23.6	20.0	21.3	20.4	21.7	22.1
4H	22.6	23.9	23.1	24.3	24.7	20.6	21.8	21.0	22.2	22.7
6H	23.9	25.1	24.4	25.5	26.0	20.9	22.1	21.4	22.6	23.0
8H	24.6	25.8	25.1	26.2	26.7	21.0	22.2	21.5	22.6	23.1
12H	25.4	26.6	25.9	27.0	27.5	21.1	22.2	21.5	22.6	23.1
4H 2H	19.8	21.1	20.3	21.5	21.9	19.3	20.6	19.7	21.0	21.4
3H	22.3	23.4	22.7	23.8	24.3	21.0	22.1	21.4	22.5	23.0
4H	23.6	24.7	24.1	25.1	25.6	21.7	22.7	22.2	23.2	23.7
6H	25.1	26.1	25.6	26.5	27.1	22.2	23.1	22.7	23.6	24.2
8H	25.9	26.8	26.5	27.3	27.9	22.4	23.3	22.9	23.8	24.3
12H	26.9	27.7	27.4	28.2	28.8	22.5	23.3	23.0	23.8	24.4
8H 4H	23.9	24.8	24.5	25.3	25.9	22.3	23.2	22.8	23.7	24.2
6H	25.7	26.5	26.3	27.0	27.6	23.1	23.8	23.7	24.4	25.0
8H	26.7	27.4	27.3	28.0	28.6	23.4	24.1	24.0	24.6	25.3
12H	28.0	28.5	28.5	29.1	29.7	23.7	24.2	24.3	24.8	25.5
12H 4H	24.0	24.8	24.5	25.3	25.9	22.5	23.3	23.0	23.8	24.4
6H	25.8	26.5	26.4	27.0	27.7	23.5	24.1	24.0	24.7	25.3
8H	26.9	27.5	27.5	28.1	28.7	23.9	24.5	24.5	25.0	25.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 4419 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.2)
Area: 0.18745 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

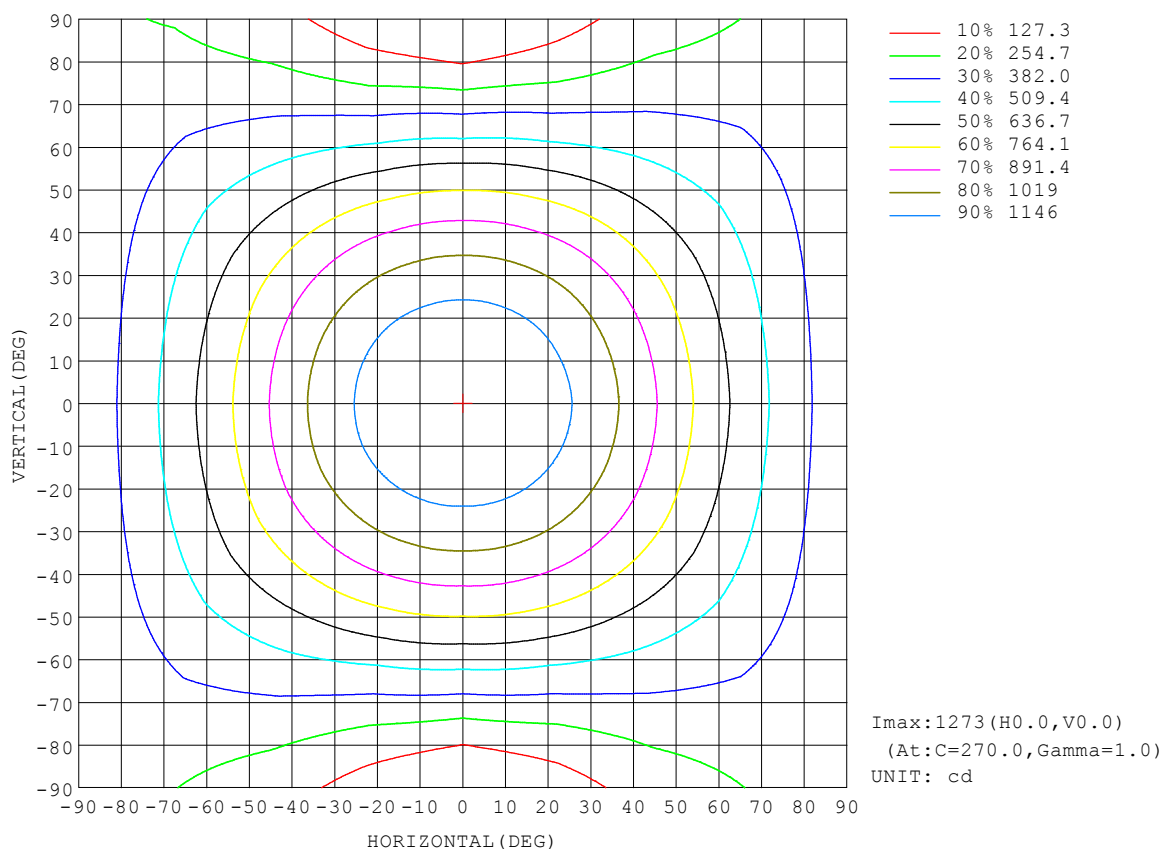
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	41	34	51	40	33	27
0.80	62	50	42	61	50	42	59	49	42	34
1.00	70	58	51	69	58	50	66	59	49	42
1.25	77	66	58	76	65	57	72	63	56	48
1.50	82	71	63	80	70	63	77	68	61	53
2.00	89	80	72	87	78	71	83	75	69	60
2.50	94	85	77	91	83	76	86	79	74	64
3.00	97	89	82	94	87	81	89	83	78	67
4.00	102	95	89	99	92	87	93	88	84	72
5.00	104	98	93	101	96	91	95	91	87	75
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: 2024-04-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity: 65.0%
Test Distance: 12.020m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

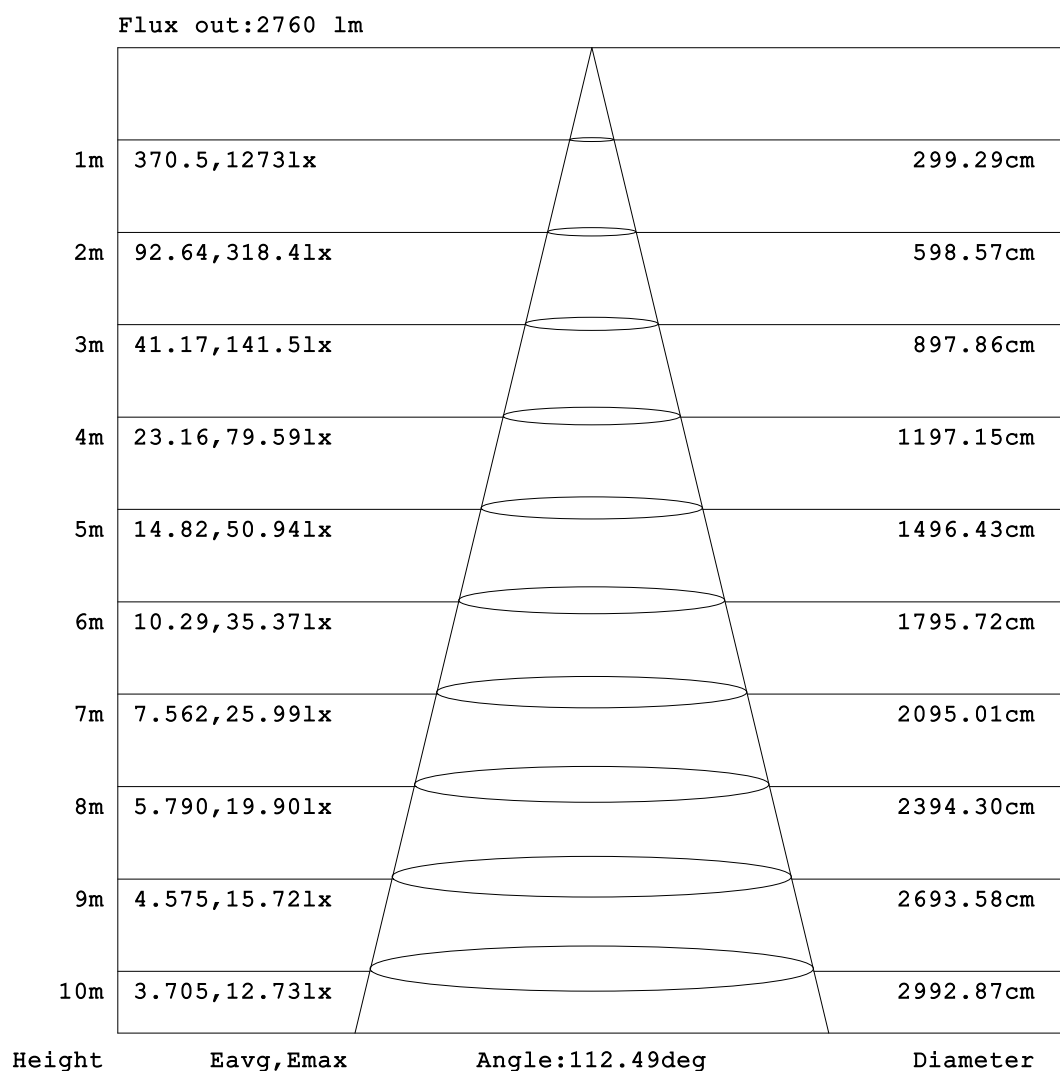


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



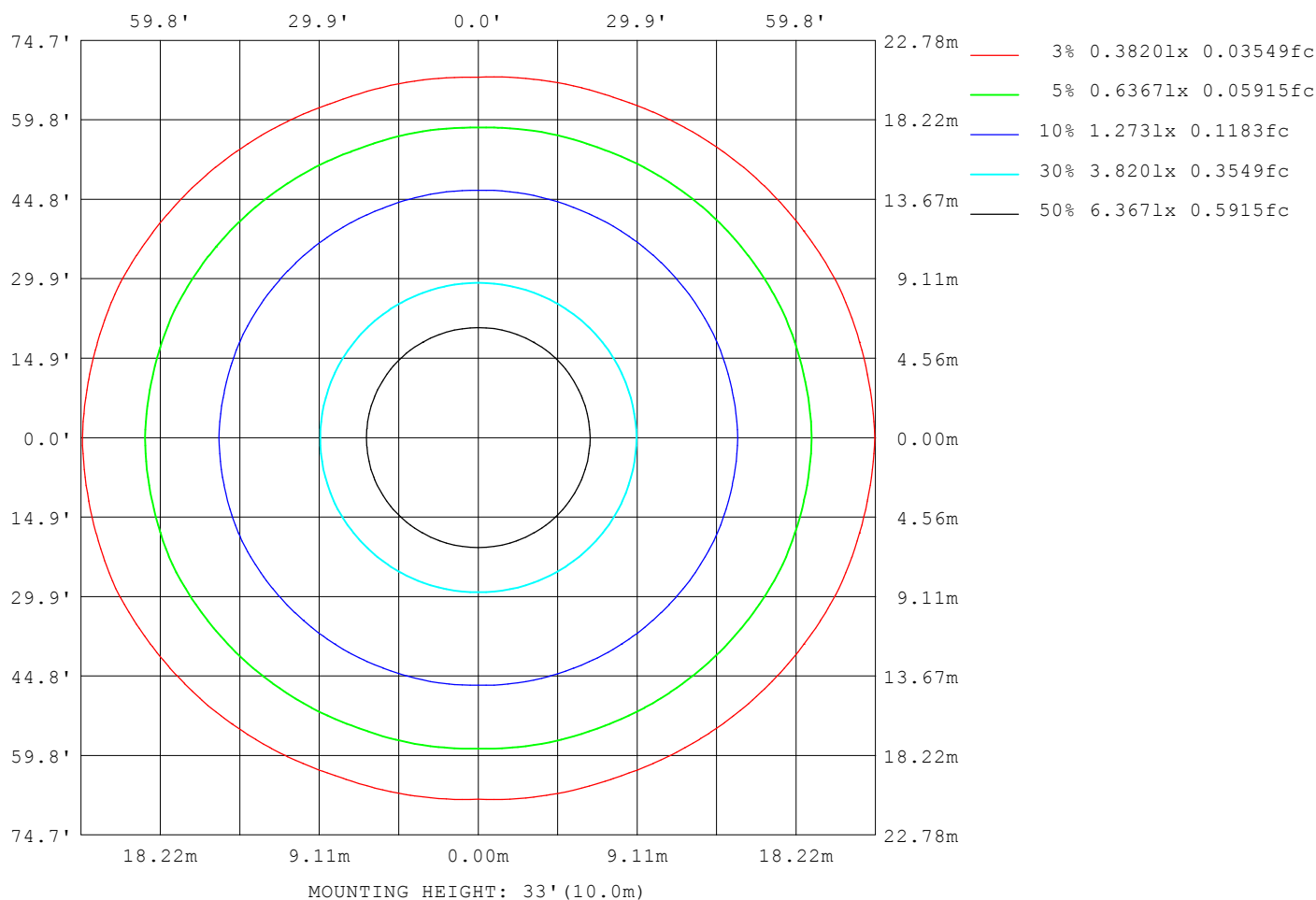
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

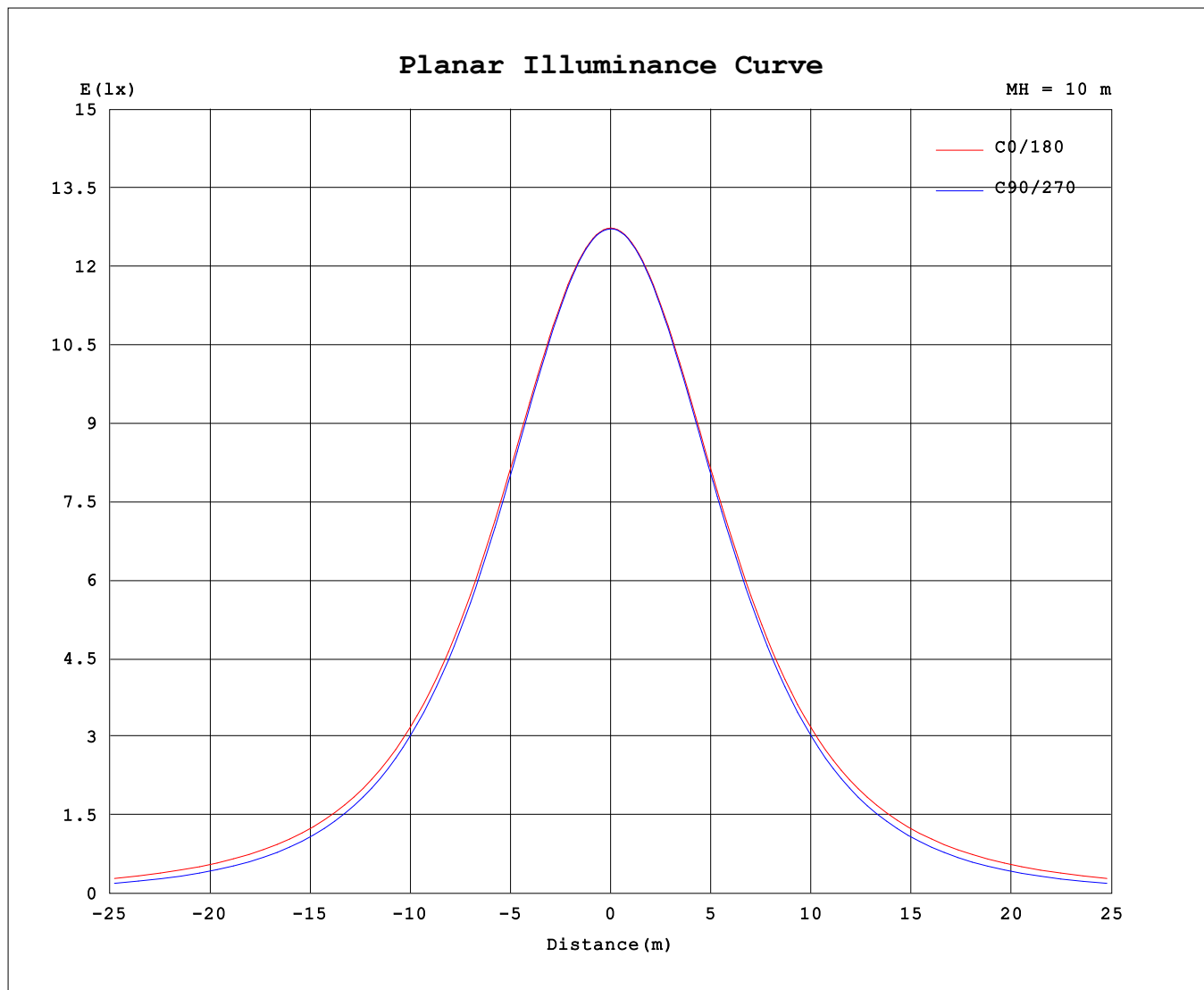
AvgL	cd/m2
L_0~180 (65) av	7582
L_0~180 (75) av	9547
L_0~180 (85) av	20757
L_90~270 (65) av	5631
L_90~270 (75) av	4603
L_90~270 (85) av	2572
L_45 (65) av	6655
L_45 (75) av	7595
L_45 (85) av	14401

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2024-04-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
 Humidity:65.0%
 Test Distance:12.020m [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: 2024-04-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity: 65.0%
Test Distance: 12.020m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.66V I:0.1566A P:35.251W PF:0.9757 Freq:50.00Hz Lamp Flux:4419.42x1 lm		
NAME: LED444-W46 (36W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (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	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272			
5	1267	1268	1267	1267	1267	1267	1268	1267	1267	1267	1268	1267	1267	1267	1267	1266			
10	1252	1253	1251	1251	1250	1251	1252	1253	1252	1253	1252	1251	1251	1250	1251	1251			
15	1228	1228	1225	1224	1223	1224	1226	1228	1228	1227	1226	1225	1224	1224	1226	1226			
20	1194	1193	1189	1186	1185	1187	1190	1194	1193	1192	1190	1187	1186	1187	1190	1191			
25	1151	1149	1144	1139	1137	1140	1145	1150	1149	1148	1144	1140	1139	1139	1144	1146			
30	1099	1096	1089	1083	1079	1083	1090	1098	1097	1094	1089	1082	1081	1083	1090	1093			
35	1039	1035	1025	1017	1013	1017	1026	1036	1036	1032	1025	1016	1014	1017	1026	1032			
40	971	966	954	943	937	943	955	968	968	962	952	940	938	942	954	963			
45	899	892	875	862	853	860	876	894	896	887	872	857	853	860	875	889			
50	824	814	791	773	762	771	792	817	821	809	787	766	761	770	791	811			
55	749	735	704	678	664	676	705	739	746	730	699	669	662	674	704	733			
60	674	657	615	579	559	577	618	663	672	653	610	567	555	574	616	655			
65	602	581	527	474	449	473	533	587	599	576	520	463	443	472	528	580			
70	533	506	444	373	338	373	452	512	527	503	438	360	330	372	447	509			
75	467	438	367	276	227	280	375	443	459	432	360	264	219	277	372	441			
80	404	374	298	191	126	198	304	377	395	366	288	180	118	196	304	378			
85	345	315	235	124	45.2	130	239	315	333	303	224	112	38.8	131	243	318			
90	290	260	182	75.4	6.46	78.8	183	257	276	246	168	63.6	4.39	82.4	189	263			
95	239	210	137	44.1	5.45	44.9	135	206	224	195	122	34.2	4.28	49.8	143	213			
100	193	167	100	27.3	6.39	27.3	96.9	160	177	150	85.8	21.9	5.29	31.2	106	170			
105	153	130	73.0	19.9	7.49	21.1	69.0	121	136	113	61.1	18.3	6.43	22.1	77.8	132			
110	119	99.2	53.9	17.7	8.67	19.7	51.0	91.1	104	84.6	45.7	17.4	7.65	19.1	57.4	101			
115	91.7	75.7	39.9	17.1	9.89	19.5	39.1	68.1	78.7	61.6	36.9	17.3	8.79	18.0	42.8	77.3			
120	66.8	54.5	33.3	17.0	11.1	19.3	33.9	51.6	59.3	48.9	31.5	17.4	10.0	17.6	34.1	55.4			
125	53.4	44.7	30.2	17.1	12.3	19.3	31.5	44.4	49.3	42.3	29.5	17.3	11.2	17.0	31.0	45.3			
130	44.9	39.1	28.0	17.2	13.4	19.6	29.9	39.8	43.2	38.0	28.0	17.6	12.3	17.3	28.5	39.5			
135	39.3	35.1	26.3	17.3	14.5	19.7	28.6	36.3	38.7	34.9	26.8	17.9	13.4	17.3	26.3	35.3			
140	35.0	31.8	24.8	17.4	15.6	19.8	27.4	33.6	35.2	32.3	25.8	18.3	14.5	17.1	24.7	31.9			
145	31.5	29.0	22.9	17.6	16.6	19.9	26.2	31.2	32.3	30.0	24.7	18.1	15.5	17.1	23.3	29.1			
150	28.6	26.8	21.6	17.9	17.6	19.7	24.8	29.0	29.8	28.0	23.4	18.5	16.5	17.3	21.5	26.7			
155	26.1	24.8	20.8	18.4	18.4	20.0	23.6	26.8	27.4	25.9	22.4	18.9	17.6	17.7	20.4	24.7			
160	23.9	23.1	20.3	18.9	19.1	20.2	22.6	24.9	25.0	24.2	21.1	19.3	18.6	18.4	19.8	22.9			
165	22.0	21.2	19.9	19.3	19.7	20.3	21.5	22.7	22.9	21.9	20.8	19.6	19.3	18.9	19.5	20.9			
170	20.7	20.3	19.9	19.8	20.1	20.4	21.0	21.4	21.5	21.1	20.5	20.0	19.9	19.5	19.8	20.2			
175	20.3	20.3	20.1	20.3	20.5	20.6	20.7	20.7	20.9	20.6	20.5	20.4	20.4	20.1	20.1	20.1			
180	20.8	20.5	20.4	20.4	20.6	20.5	20.5	20.6	20.9	20.5	20.5	20.4	20.6	20.4	20.5	20.6			

C Range: 0 - 360DEG
C Interval: 22.5DEG
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Operators:DAMIN
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γ Range: 0 - 180DEG
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