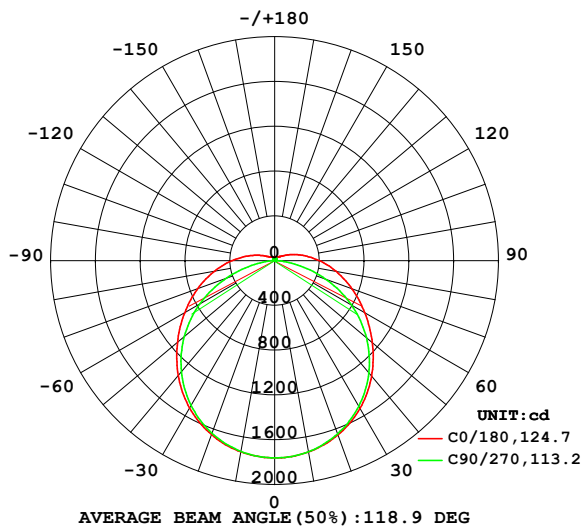


LUMINAIRE PHOTOMETRIC TEST REPORT

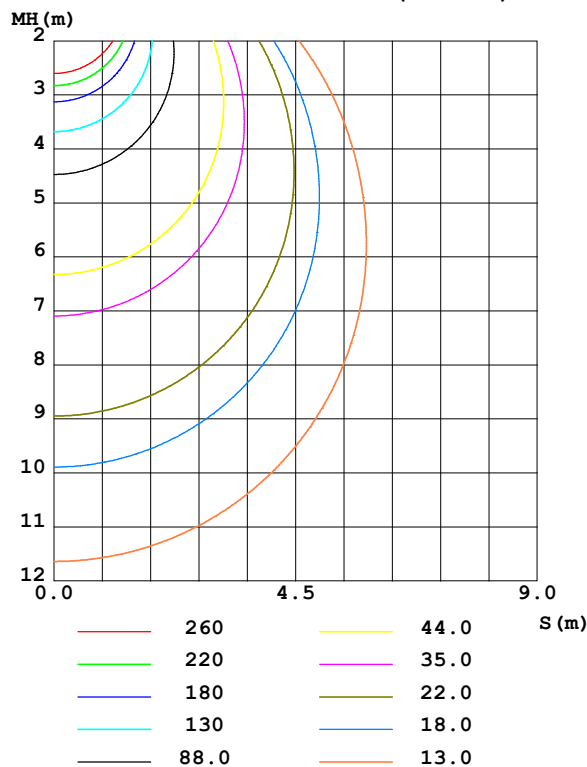
Test:U:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.85 lm/W			
MODEL		I _{max} (cd)	1762	S/MH(C0/180)	1.28
NOMINAL POWER(W)	49.9	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	6125.2	η UP,DN(C0-180)	3.9,46.5
NOMINAL FLUX(lm)	6125.18	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.7,45.8
LAMPS INSIDE	1	η up (%)	7.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240.3	η down (%)	92.4	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: 2024-04-02

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	1736	1735	1734	1736	1735	1733	1730	1733	0- 10	166.9	166.9	2.72,2.72
20	1656	1652	1646	1653	1653	1647	1640	1647	10- 20	479.5	646.4	10.6,10.6
30	1525	1516	1503	1516	1520	1506	1493	1508	20- 30	731.5	1378	22.5,22.5
40	1348	1331	1309	1330	1340	1317	1296	1320	30- 40	890.5	2268	37,37
50	1140	1105	1071	1104	1133	1088	1053	1092	40- 50	937.5	3206	52.3,52.3
60	930.1	857.7	792.2	860.3	926.7	841.4	770.6	844.8	50- 60	874.0	4080	66.6,66.6
70	735.1	622.6	485.9	628.7	729.8	609.1	458.1	613.0	60- 70	723.6	4803	78.4,78.4
80	557.1	420.5	183.2	423.8	544.0	403.2	158.4	412.6	70- 80	524.6	5328	87,87
90	400.1	259.3	6.789	255.9	381.2	239.4	4.711	255.5	80- 90	330.3	5658	92.4,92.4
100	266.6	144.2	7.917	136.8	245.4	125.1	7.454	142.5	90-100	192.9	5851	95.5,95.5
110	162.8	74.90	11.22	68.88	143.4	62.82	10.59	74.37	100-110	107.7	5959	97.3,97.3
120	89.19	44.61	14.54	42.88	78.05	40.60	13.77	44.57	110-120	58.96	6018	98.2,98.2
130	58.85	37.85	17.73	37.24	54.76	35.55	16.89	37.53	120-130	36.50	6054	98.8,98.8
140	46.65	33.72	20.66	33.75	44.63	32.40	19.94	33.40	130-140	27.02	6081	99.3,99.3
150	38.47	29.81	23.26	30.72	37.38	29.64	22.68	29.86	140-150	19.82	6101	99.6,99.6
160	32.72	28.03	25.36	28.21	31.41	27.06	24.95	27.75	150-160	13.51	6115	99.8,99.8
170	28.43	27.34	26.89	26.90	27.41	26.63	26.72	27.16	160-170	7.818	6123	100,100
180	27.84	27.35	27.47	27.41	27.84	27.38	27.46	27.44	170-180	2.601	6125	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2738.4 lm

%lum = 44.7%

%lamp = 44.7%

Conical surface Flux(120deg): 4079.9 lm

%lum = 66.6%

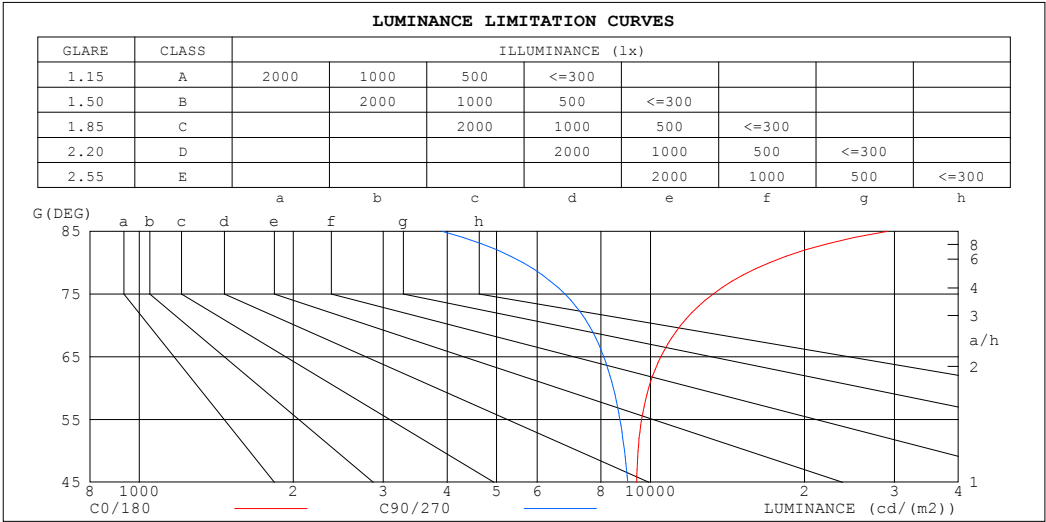
%lamp = 66.6%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	29094	3910
80	17102	5629
75	13263	6799
70	11458	7582
65	10473	8100
60	9917	8456
55	9607	8709
50	9453	8890
45	9393	9021

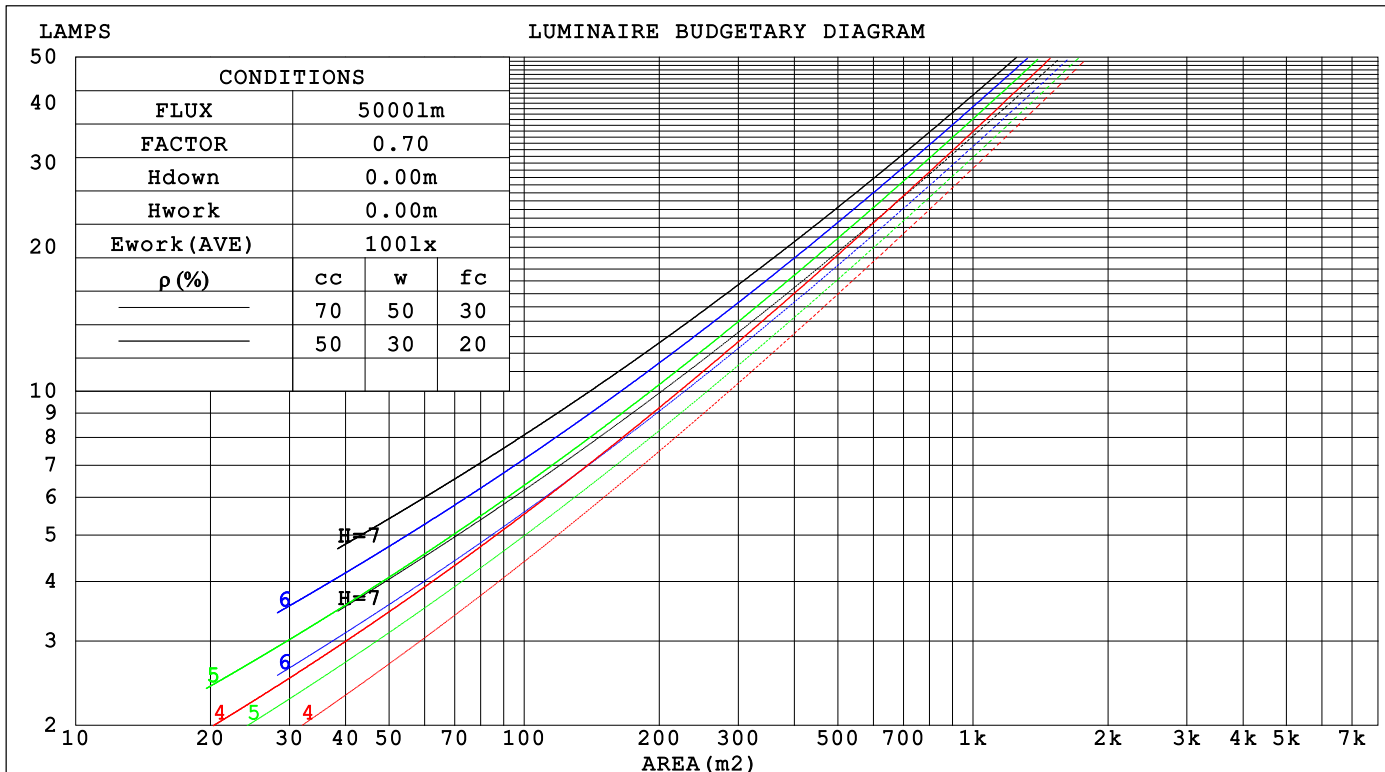
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	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	.79	.73	.68	.74	.69	.65	.70	.66	.63	.60
3.0	.75	.66	.59	.73	.65	.58	.69	.62	.56	.65	.59	.54	.61	.57	.52	.50
4.0	.66	.57	.50	.64	.56	.49	.61	.53	.48	.58	.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	.47	.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:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	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	.356	.202	.064	.346	.197	.063	.328	.188	.060	.312	.180	.058	.297	.172	.055		
2.0	.317	.174	.053	.309	.170	.052	.293	.163	.051	.278	.156	.049	.264	.150	.047		
3.0	.286	.152	.046	.278	.149	.045	.264	.143	.044	.251	.138	.042	.239	.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	.210	.111	.033	.200	.107	.032		
6.0	.219	.110	.031	.214	.108	.031	.203	.104	.030	.193	.101	.030	.184	.097	.029		
7.0	.203	.100	.028	.198	.099	.028	.188	.095	.027	.180	.092	.027	.171	.089	.026		
8.0	.189	.092	.026	.184	.091	.026	.176	.088	.025	.168	.085	.024	.160	.082	.024		
9.0	.176	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.023	.150	.076	.022		
10.0	.165	.079	.022	.161	.078	.022	.154	.076	.021	.148	.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	.249	.249	.249	.212	.212	.212	.145	.145	.145	.083	.083	.083	.027	.027	.027		
1.0	.242	.214	.189	.207	.184	.163	.142	.127	.113	.082	.073	.066	.026	.024	.021		
2.0	.235	.191	.154	.201	.164	.133	.138	.114	.093	.079	.066	.054	.025	.021	.018		
3.0	.227	.174	.131	.194	.150	.114	.134	.104	.080	.077	.061	.047	.025	.020	.015		
4.0	.219	.161	.116	.188	.139	.101	.129	.097	.071	.075	.057	.042	.024	.018	.014		
5.0	.211	.151	.106	.182	.130	.092	.125	.091	.065	.072	.053	.039	.023	.017	.013		
6.0	.204	.142	.098	.175	.123	.086	.121	.086	.061	.070	.051	.036	.023	.017	.012		
7.0	.197	.136	.093	.169	.118	.081	.117	.082	.057	.068	.049	.034	.022	.016	.011		
8.0	.190	.130	.088	.164	.113	.077	.113	.079	.055	.066	.047	.033	.021	.015	.011		
9.0	.184	.125	.085	.159	.109	.074	.110	.076	.053	.064	.045	.031	.021	.015	.010		
10.0	.178	.121	.083	.154	.105	.072	.107	.074	.051	.062	.044	.031	.020	.014	.010		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm										
NAME: LED444-W46 (50W 350mA 6000K)					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	20.4	21.9	20.8	22.2	22.6	19.8	21.2	20.1	21.6	21.9
3H	22.6	23.9	23.0	24.3	24.7	21.3	22.6	21.7	23.0	23.4
4H	23.7	25.0	24.2	25.4	25.9	21.9	23.1	22.3	23.5	24.0
6H	25.0	26.2	25.5	26.7	27.1	22.2	23.5	22.7	23.9	24.3
8H	25.7	26.9	26.2	27.3	27.8	22.3	23.5	22.8	24.0	24.4
12H	26.5	27.7	27.0	28.1	28.6	22.4	23.5	22.9	24.0	24.4
4H 2H	21.0	22.3	21.4	22.7	23.1	20.5	21.8	20.9	22.2	22.6
3H	23.4	24.5	23.9	25.0	25.4	22.2	23.4	22.7	23.8	24.3
4H	24.8	25.8	25.3	26.3	26.8	23.0	24.0	23.5	24.5	25.0
6H	26.3	27.2	26.8	27.7	28.2	23.5	24.5	24.0	24.9	25.5
8H	27.1	27.9	27.6	28.5	29.0	23.7	24.6	24.2	25.1	25.6
12H	28.0	28.8	28.6	29.3	29.9	23.8	24.6	24.4	25.1	25.7
8H 4H	25.1	26.0	25.6	26.5	27.0	23.6	24.5	24.1	25.0	25.5
6H	26.9	27.6	27.4	28.1	28.7	24.4	25.2	25.0	25.7	26.3
8H	27.9	28.5	28.5	29.1	29.7	24.8	25.4	25.3	26.0	26.6
12H	29.1	29.7	29.7	30.2	30.9	25.0	25.6	25.6	26.2	26.8
12H 4H	25.1	25.9	25.7	26.4	27.0	23.8	24.6	24.3	25.1	25.7
6H	27.0	27.6	27.6	28.2	28.8	24.8	25.4	25.3	26.0	26.6
8H	28.1	28.7	28.7	29.3	29.9	25.2	25.8	25.8	26.4	27.0
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, 6125 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.3)
Area: 0.18745 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

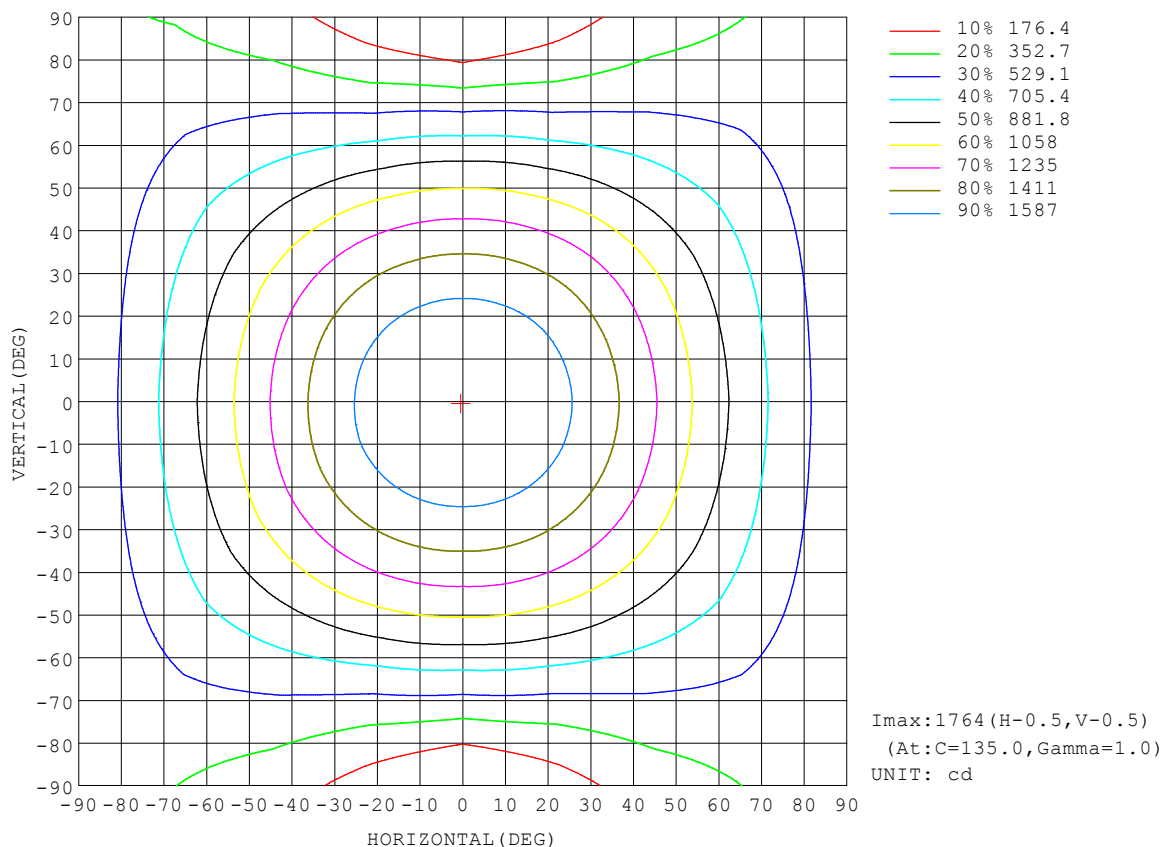
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	41	34	51	40	33	27
0.80	62	50	42	61	50	42	59	49	42	34
1.00	71	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	90	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	68
4.00	102	95	89	99	92	87	93	88	84	72
5.00	104	98	93	101	96	91	95	91	87	76
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: 2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

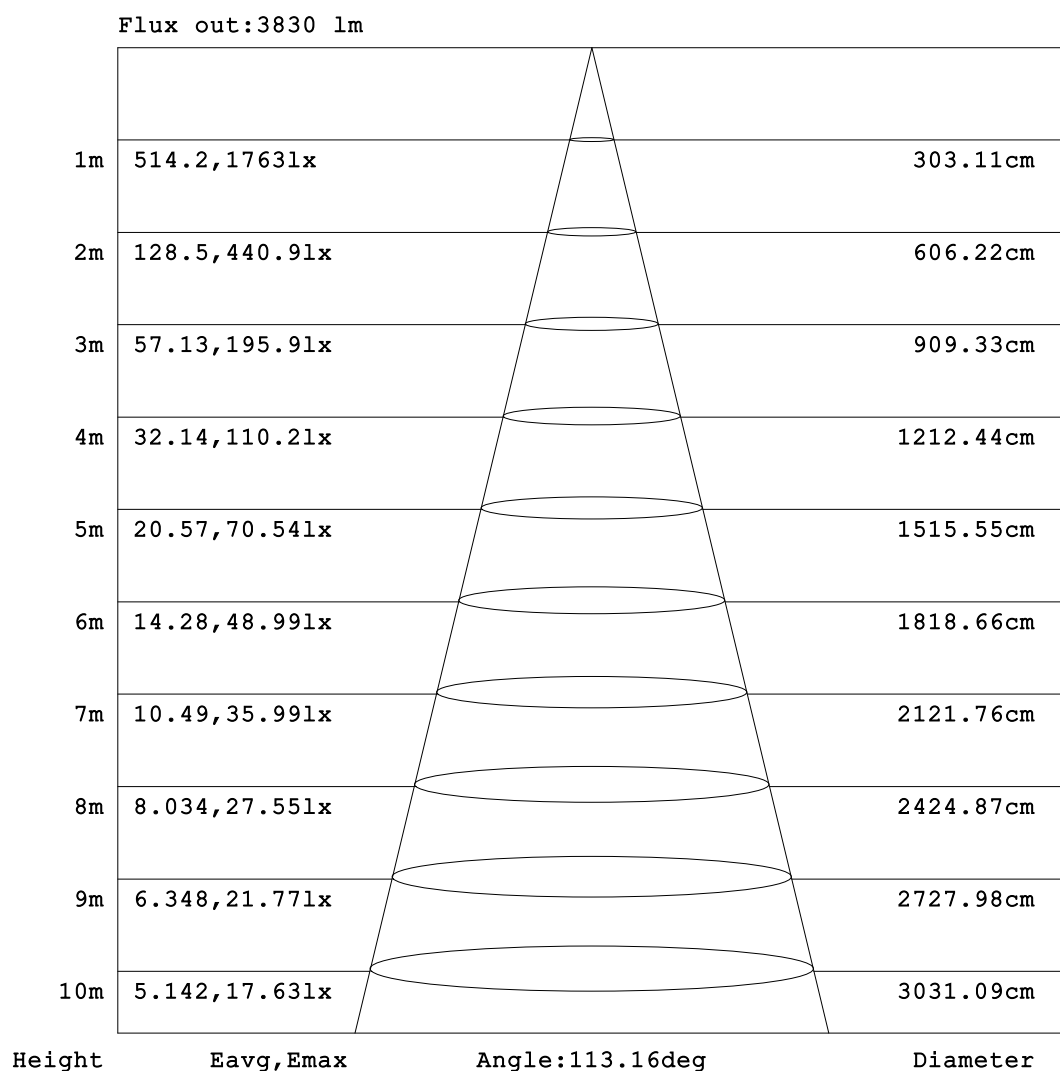


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



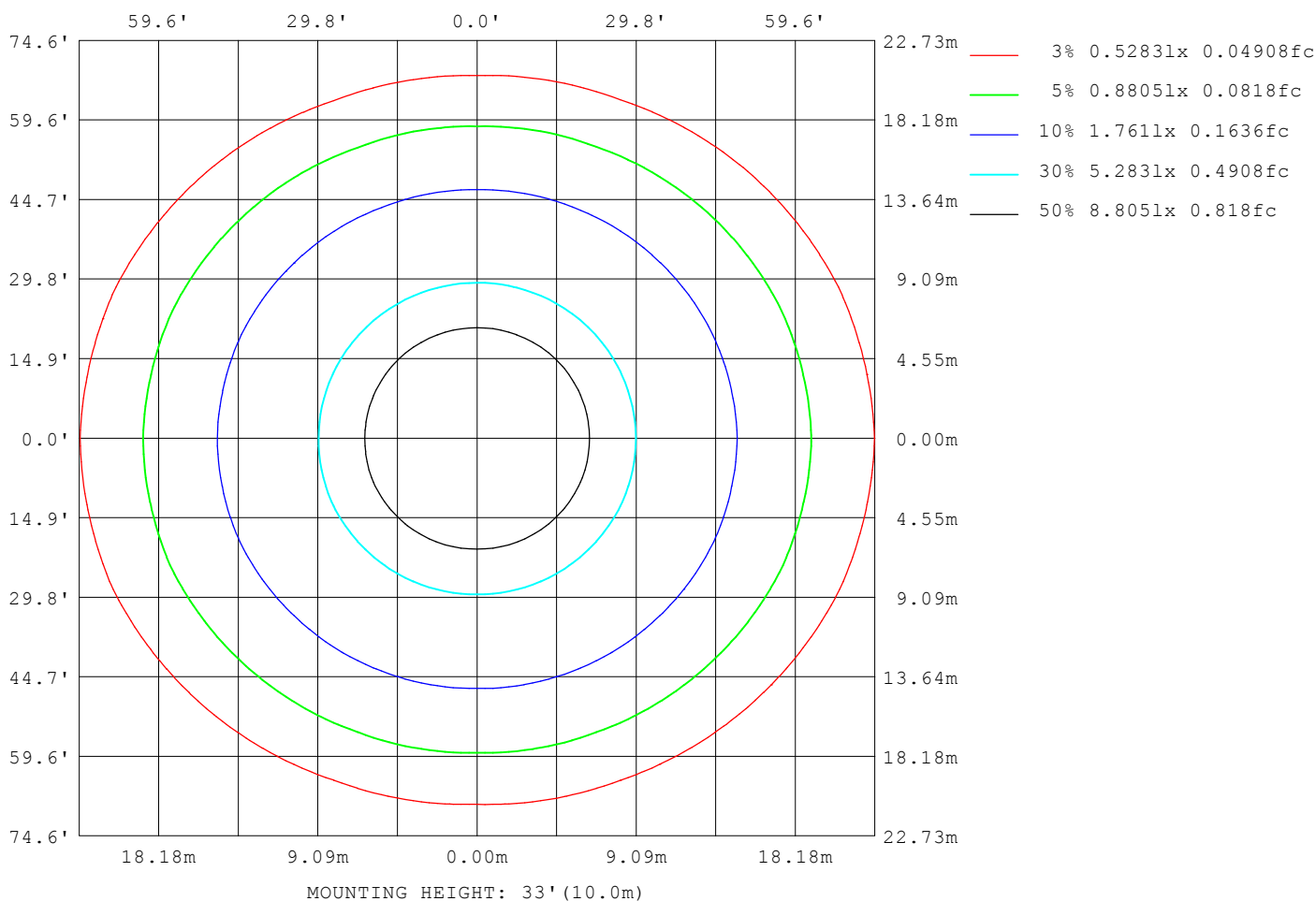
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	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:2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm		
NAME: LED444-W46 (50W 350mA 6000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.187450	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

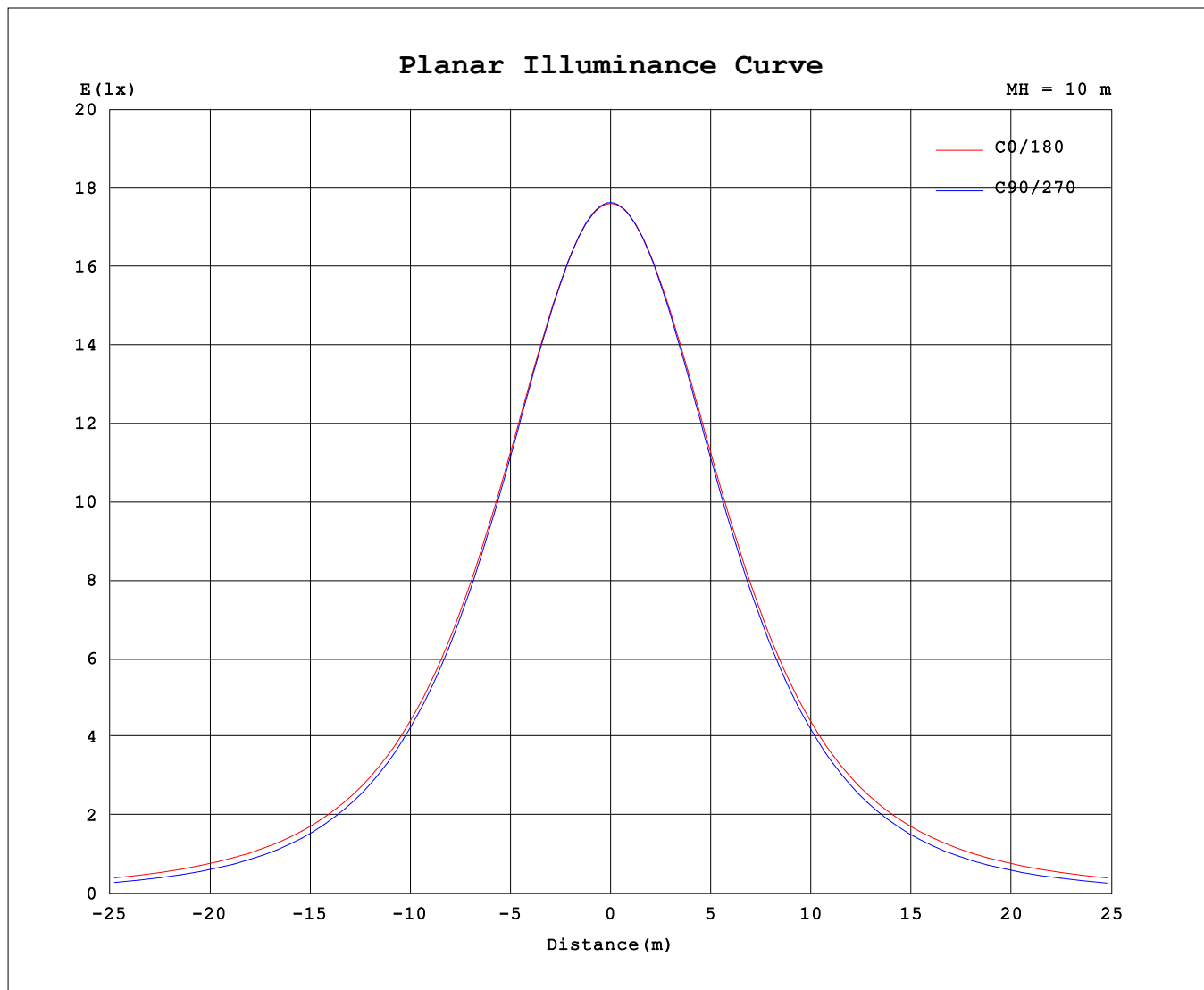
AvgL	cd/m2
L_0~180 (65) av	10457
L_0~180 (75) av	13191
L_0~180 (85) av	28632
L_90~270 (65) av	7945
L_90~270 (75) av	6514
L_90~270 (85) av	3376
L_45 (65) av	9232
L_45 (75) av	10541
L_45 (85) av	20095

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-02

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: 2024-04-02

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:230.47V I:0.2221A P:49.859W PF:0.9740 Freq:50.00Hz Lamp Flux:6125.18x1 lm																	
NAME: LED444-W46 (50W 350mA 6000K)									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	1762	1762	1762	1762	1762	1762	1762	1762	1762	1762	1762	1762	1762	1762	1762	1762			
5	1756	1756	1756	1755	1755	1756	1756	1757	1755	1755	1755	1754	1754	1754	1754	1756			
10	1736	1737	1735	1735	1734	1734	1736	1738	1735	1734	1733	1731	1730	1730	1733	1734			
15	1703	1703	1701	1699	1697	1699	1701	1704	1701	1700	1697	1693	1692	1693	1697	1699			
20	1656	1656	1652	1649	1646	1649	1653	1657	1653	1651	1647	1642	1640	1642	1647	1651			
25	1597	1596	1590	1585	1581	1585	1591	1597	1593	1590	1584	1576	1573	1576	1584	1590			
30	1525	1524	1516	1509	1503	1508	1516	1524	1520	1515	1506	1497	1493	1497	1508	1516			
35	1442	1439	1429	1419	1412	1419	1429	1439	1435	1429	1418	1405	1401	1406	1420	1431			
40	1348	1344	1331	1319	1309	1317	1330	1343	1340	1332	1317	1301	1296	1303	1320	1335			
45	1246	1240	1223	1206	1195	1204	1221	1239	1238	1226	1207	1187	1180	1189	1211	1230			
50	1140	1130	1105	1084	1071	1082	1104	1131	1133	1117	1088	1062	1053	1065	1092	1119			
55	1034	1019	982	953	936	950	982	1022	1029	1008	964	928	916	932	969	1008			
60	930	910	858	814	792	813	860	915	927	900	841	787	771	792	845	900			
65	830	805	737	671	641	670	742	811	827	796	722	643	617	649	725	796			
70	735	706	623	527	486	528	629	710	730	695	609	502	458	507	613	697			
75	644	611	517	393	330	397	522	613	636	598	500	371	302	376	507	603			
80	557	520	420	277	183	282	424	519	544	507	403	257	158	264	413	516			
85	476	438	334	184	63.8	187	335	433	460	421	316	164	46.5	174	329	434			
90	400	363	259	113	6.79	114	256	355	381	343	239	96.8	4.71	108	256	359			
95	330	295	196	66.5	6.41	65.2	190	283	310	272	176	53.7	6.01	64.0	193	291			
100	267	234	144	39.4	7.92	37.9	137	221	245	211	125	31.6	7.45	38.6	142	230			
105	211	181	104	27.5	9.55	26.7	96.4	168	190	159	87.6	23.8	8.98	27.3	103	179			
110	163	138	74.9	24.2	11.2	23.9	68.9	125	143	118	62.8	22.2	10.6	24.3	74.4	135			
115	124	103	54.2	23.5	12.9	23.2	50.9	90.6	107	84.0	47.9	21.8	12.2	23.5	55.1	101			
120	89.2	73.4	44.6	23.2	14.5	23.1	42.9	67.0	78.0	64.1	40.6	21.8	13.8	23.2	44.6	72.2			
125	70.2	59.1	40.5	23.3	16.1	23.2	39.6	56.2	63.0	54.2	37.7	21.7	15.3	22.9	40.3	59.0			
130	58.8	51.8	37.8	23.7	17.7	23.6	37.2	50.0	54.8	48.5	35.6	22.2	16.9	23.3	37.5	51.3			
135	51.8	46.8	35.7	24.0	19.2	24.0	35.3	45.7	49.2	44.4	33.9	22.7	18.4	23.7	35.2	46.4			
140	46.6	42.7	33.7	24.2	20.7	24.2	33.8	42.0	44.6	40.9	32.4	23.1	19.9	23.8	33.4	42.3			
145	42.2	39.2	31.3	24.4	22.0	24.6	32.2	38.8	40.8	37.9	31.0	23.4	21.4	24.0	31.5	38.7			
150	38.5	36.3	29.8	24.5	23.3	24.6	30.7	36.0	37.4	35.1	29.6	23.8	22.7	24.0	29.9	35.9			
155	35.4	33.9	28.9	25.3	24.4	25.1	29.4	33.3	34.2	32.5	28.4	24.3	23.9	24.7	28.7	33.5			
160	32.7	32.0	28.0	25.9	25.4	25.5	28.2	31.0	31.4	30.3	27.1	24.9	24.9	25.4	27.7	31.3			
165	30.4	29.2	27.3	26.4	26.2	26.2	27.3	28.5	29.1	27.9	26.6	25.8	25.9	26.0	27.1	29.1			
170	28.4	27.9	27.3	26.9	26.9	26.9	26.9	27.3	27.4	27.0	26.6	26.6	26.7	26.5	27.2	27.9			
175	27.7	27.5	27.3	27.3	27.3	27.3	27.2	27.3	27.6	27.1	27.2	27.1	27.3	27.1	27.3	27.5			
180	27.8	27.4	27.4	27.4	27.5	27.4	27.4	27.5	27.8	27.4	27.4	27.3	27.5	27.4	27.4	27.5			

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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