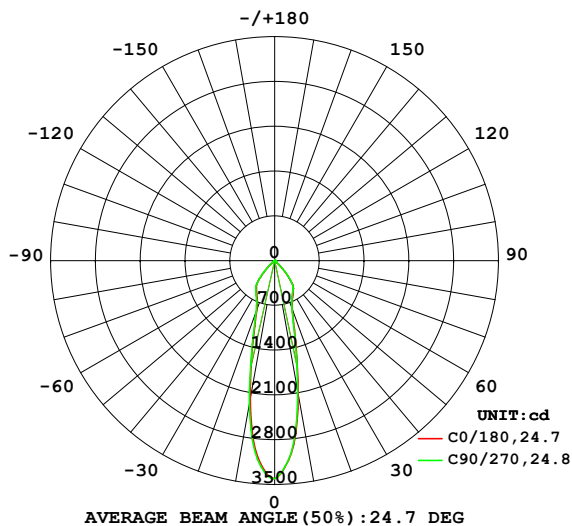


LUMINAIRE PHOTOMETRIC TEST REPORT

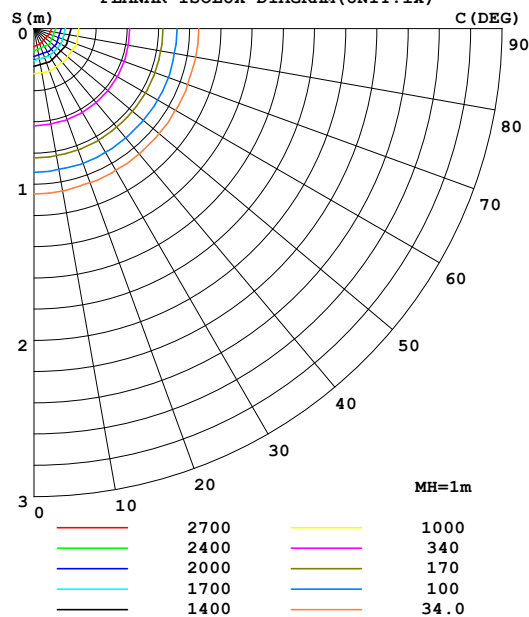
Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654		Lamp Flux:1406.16x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D	13W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 112.25 lm/W
MODEL		I _{max} (cd)	3409	S/MH (C0/180)	0.43	
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.44	
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	1406.2	η UP, DN (C0-180)	0.0, 48.9	
NOMINAL FLUX (lm)	1406.16	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	240.4	η down (%)	100.0	CIBSE SHR MAX	0.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-10-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [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	2130	2086	2084	2152	2212	2275	2283	2200	0- 10	263.1	263.1	18.7,18.7
20	815.5	806.1	798.4	810.6	831.4	847.3	857.7	838.7	10- 20	365.4	628.5	44.7,44.7
30	579.3	574.2	568.4	569.3	571.7	578.3	588.9	587.8	20- 30	308.0	936.6	66.6,66.6
40	355.8	350.9	351.2	364.9	373.6	381.9	381.8	365.0	30- 40	309.3	1246	88.6,88.6
50	31.60	28.17	27.62	31.09	33.76	37.36	37.64	33.26	40- 50	132.5	1378	98,98
60	8.060	7.599	7.489	7.642	7.601	7.952	8.178	8.040	50- 60	14.06	1392	99,99
70	5.275	5.290	4.965	4.821	4.890	4.920	5.123	5.225	60- 70	5.959	1398	99.4,99.4
80	5.183	5.411	5.472	4.933	4.966	5.169	5.277	5.085	70- 80	5.138	1404	99.8,99.8
90	0.0484	0.0430	0.0562	0.0442	0.0458	0.0427	0.0476	0.0400	80- 90	2.658	1406	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1343.1 lm

%lum = 95.5%

%lamp = 95.5%

Conical surface Flux(120deg): 1392.4 lm

%lum = 99.0%

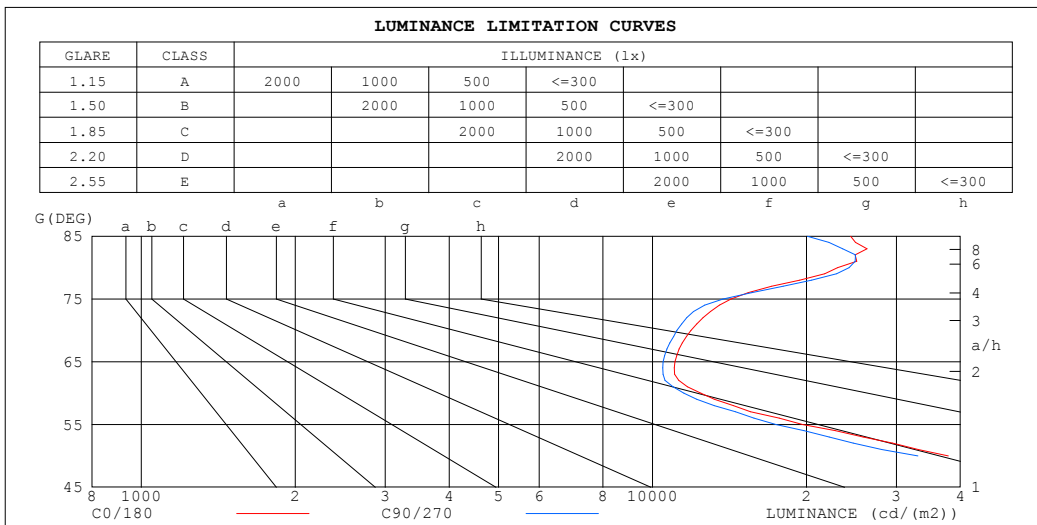
%lamp = 99.0%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-10-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz			Lamp Flux:1406.16x1 lm		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654					
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D 13WTYPE:			WEIGHT:		
SPEC.:			DIM.:		
MFR.: Norming lighting			SUR.: 41mm		
			Shielding Angle:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	24410	20082
80	23011	24228
75	14236	13736
70	11889	11163
65	11054	10485
60	12428	11516
55	19654	17445
50	37902	33044
45	169656	163008

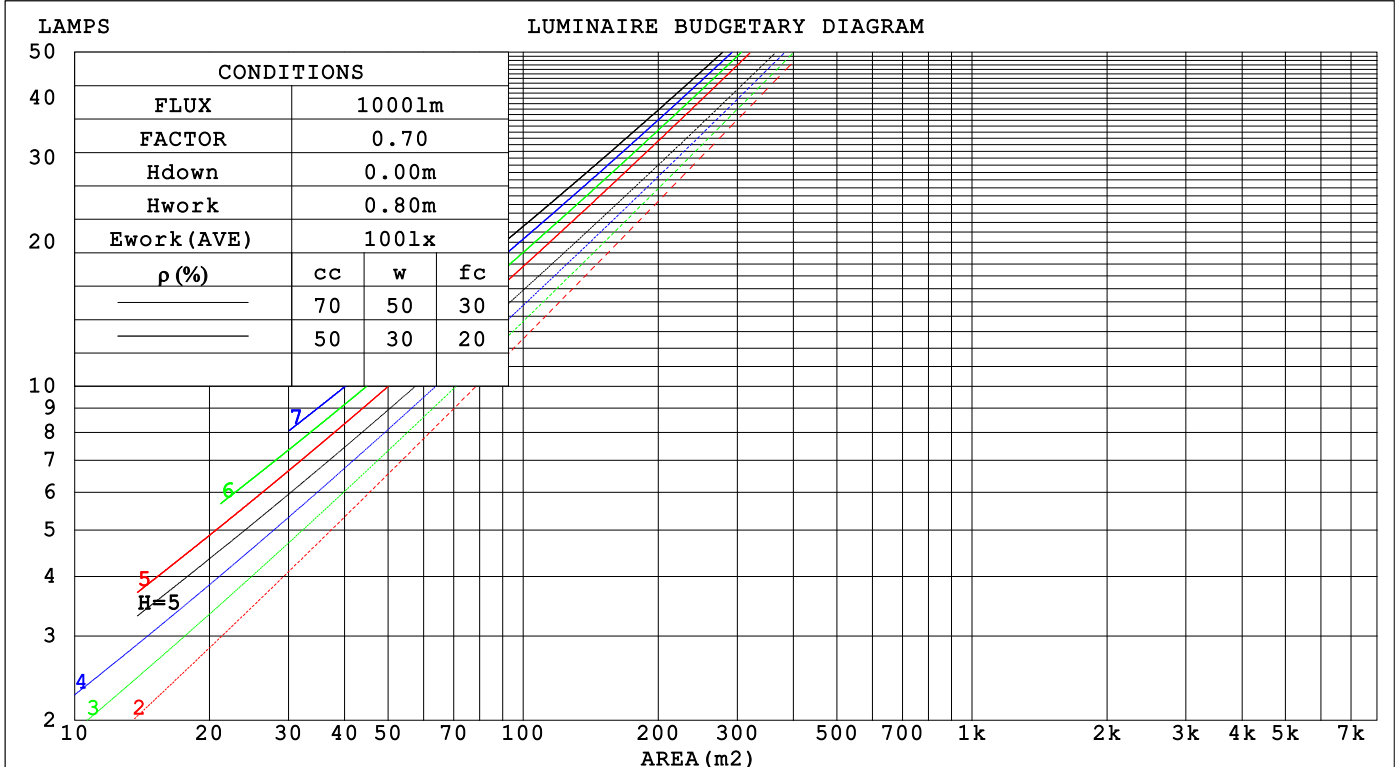
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654		Lamp Flux:1406.16x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D 13WTYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.96	.92	.88	.95	.91	.87	.92	.89	.86	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.78	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.77	.74	.80	.76	.73	.79	.75	.73	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.75	.70	.66	.75	.69	.65	.74	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.71	.66	.62	.71	.65	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.66	.61	.58	.65	.61	.58	.56
10.0	.65	.59	.55	.64	.59	.55	.63	.58	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz			UTHDi:0.18% ITHDi:18.86% KDisp:0.9654			Lamp Flux:1406.16x1 lm		
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D			13WTYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: Norming lighting			SUR.: 41mm			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	.177	.101	.032	.171	.097	.031	.158	.091	.029	.147	.085	.027	.136	.079	.025		
2.0	.169	.093	.028	.164	.090	.028	.153	.085	.026	.143	.080	.025	.134	.076	.024		
3.0	.161	.086	.026	.156	.084	.025	.147	.080	.024	.139	.076	.023	.131	.072	.022		
4.0	.153	.079	.023	.149	.078	.023	.141	.075	.022	.133	.072	.022	.127	.069	.021		
5.0	.145	.074	.021	.142	.073	.021	.135	.070	.021	.128	.068	.020	.123	.065	.020		
6.0	.138	.069	.020	.135	.068	.020	.129	.066	.019	.123	.064	.019	.118	.062	.018		
7.0	.132	.065	.018	.129	.064	.018	.124	.063	.018	.119	.061	.018	.114	.059	.017		
8.0	.126	.061	.017	.123	.061	.017	.119	.059	.017	.114	.058	.017	.110	.056	.016		
9.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016		
10.0	.115	.055	.015	.113	.055	.015	.109	.053	.015	.106	.052	.015	.102	.051	.015		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.156	.133	.113	.134	.114	.098	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011		
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.045	.035	.026	.015	.011	.009		
5.0	.124	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007		
6.0	.117	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006		
7.0	.110	.070	.042	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005		
8.0	.104	.064	.036	.090	.055	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004		
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz UTHDi:0.18% ITHDi:18.86% KDisp:0.9654Lamp Flux:1406.16x1 lm										
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D 13WTYPE:						WEIGHT:				
SPEC.:						DIM.:		SERIAL No.:		
MFR.: Norming lighting						SUR.: 41mm		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	25.9	26.8	26.1	27.0	27.2	25.8	26.8	26.0	26.9	27.1
3H	25.8	26.6	26.0	26.8	27.0	25.7	26.5	25.9	26.7	26.9
4H	25.7	26.5	26.0	26.7	27.0	25.6	26.4	25.9	26.6	26.9
6H	25.7	26.4	26.0	26.7	26.9	25.6	26.3	25.9	26.6	26.8
8H	25.7	26.4	26.0	26.7	26.9	25.6	26.3	25.9	26.6	26.8
12H	25.7	26.4	26.0	26.6	26.9	25.6	26.3	25.9	26.5	26.8
4H 2H	25.7	26.5	25.9	26.7	26.9	25.6	26.4	25.9	26.6	26.8
3H	25.5	26.2	25.8	26.5	26.8	25.4	26.1	25.8	26.4	26.7
4H	25.5	26.1	25.8	26.4	26.7	25.4	26.0	25.7	26.3	26.6
6H	25.5	26.0	25.9	26.4	26.7	25.4	26.0	25.8	26.3	26.6
8H	25.5	26.0	25.9	26.4	26.7	25.4	25.9	25.8	26.3	26.7
12H	25.5	26.0	25.9	26.4	26.8	25.4	25.9	25.8	26.3	26.7
8H 4H	25.4	25.9	25.8	26.2	26.6	25.3	25.8	25.7	26.1	26.5
6H	25.4	25.8	25.8	26.2	26.7	25.3	25.8	25.8	26.2	26.6
8H	25.5	25.9	25.9	26.3	26.7	25.4	25.8	25.9	26.2	26.6
12H	25.5	25.9	26.0	26.3	26.8	25.4	25.8	25.9	26.2	26.7
12H 4H	25.3	25.8	25.7	26.2	26.6	25.2	25.7	25.6	26.1	26.5
6H	25.4	25.8	25.8	26.2	26.6	25.3	25.7	25.8	26.1	26.6
8H	25.5	25.8	25.9	26.2	26.7	25.4	25.7	25.9	26.2	26.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 7.7					+ 2.5 / - 7.7				
1.5H	+ 4.7 / - 7.7					+ 4.7 / - 7.7				
2.0H	+ 6.7 / - 3.0					+ 6.6 / - 2.9				

CIE Pub.117, 1406 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.2$)
Area: 0.0013 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654		Lamp Flux:1406.16x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D 13WTYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

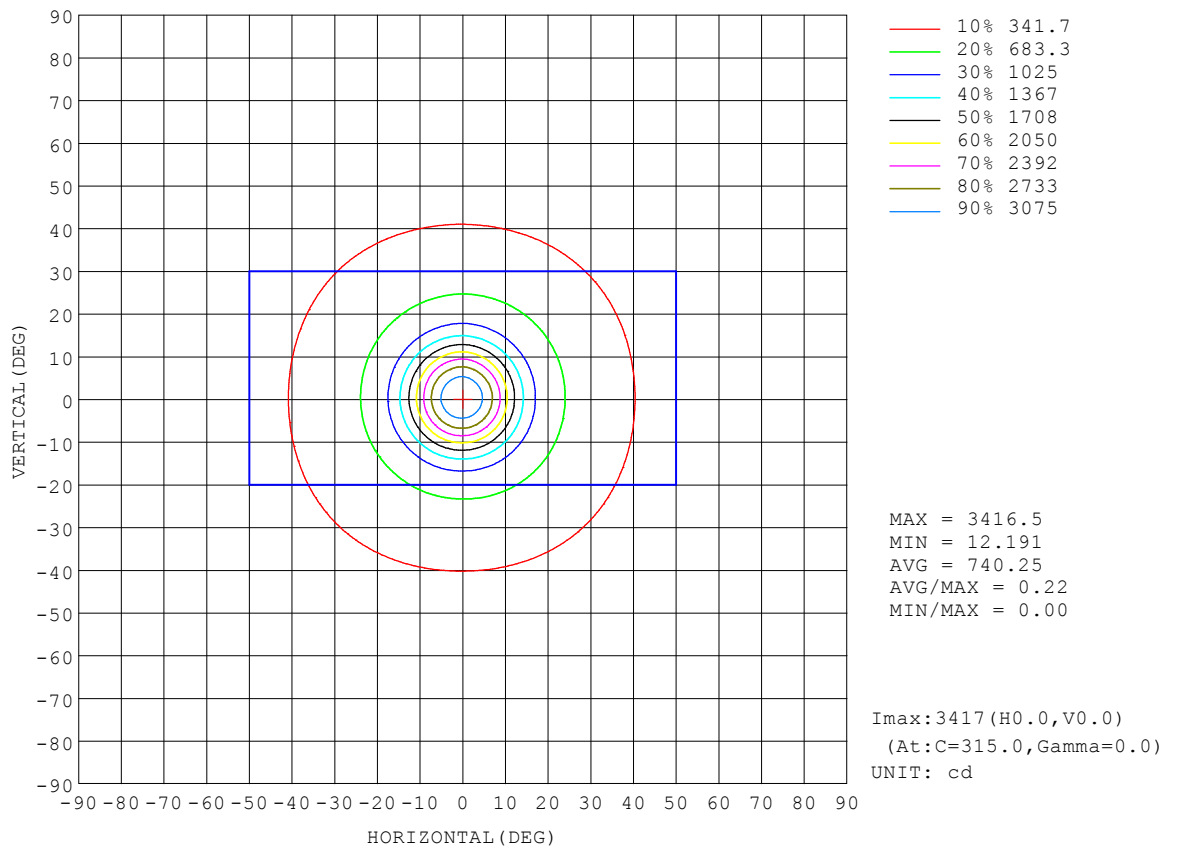
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	78	73	84	77	73	83	77	73	69
0.80	92	86	82	92	86	82	90	85	81	77
1.00	97	91	88	97	91	87	95	91	87	83
1.25	102	96	93	101	96	92	99	94	91	87
1.50	105	100	96	103	99	96	101	97	94	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	105	102	108	104	101	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	108	105	104	97
5.00	115	112	110	112	110	108	108	107	105	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654		Lamp Flux:1406.16x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

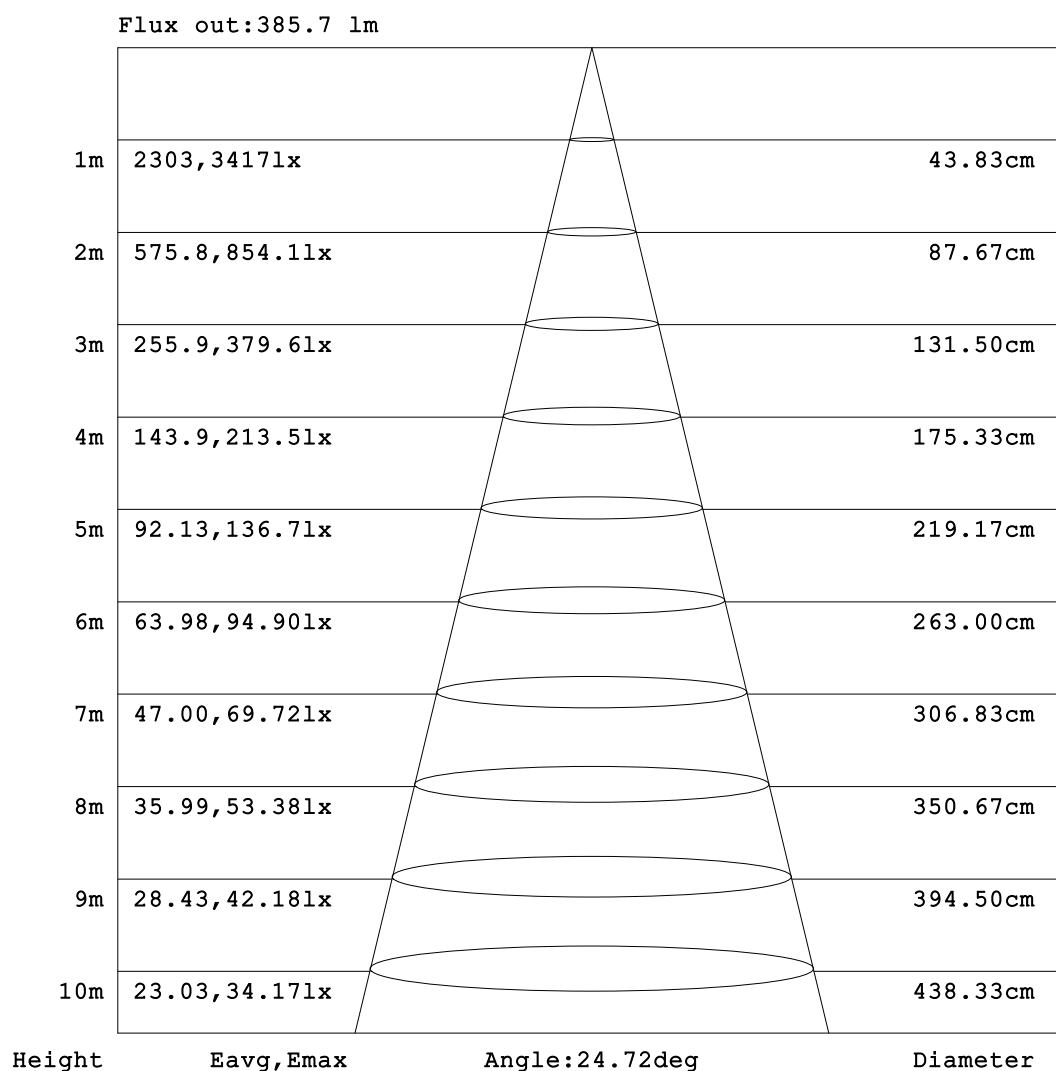


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654		Lamp Flux:1406.16x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



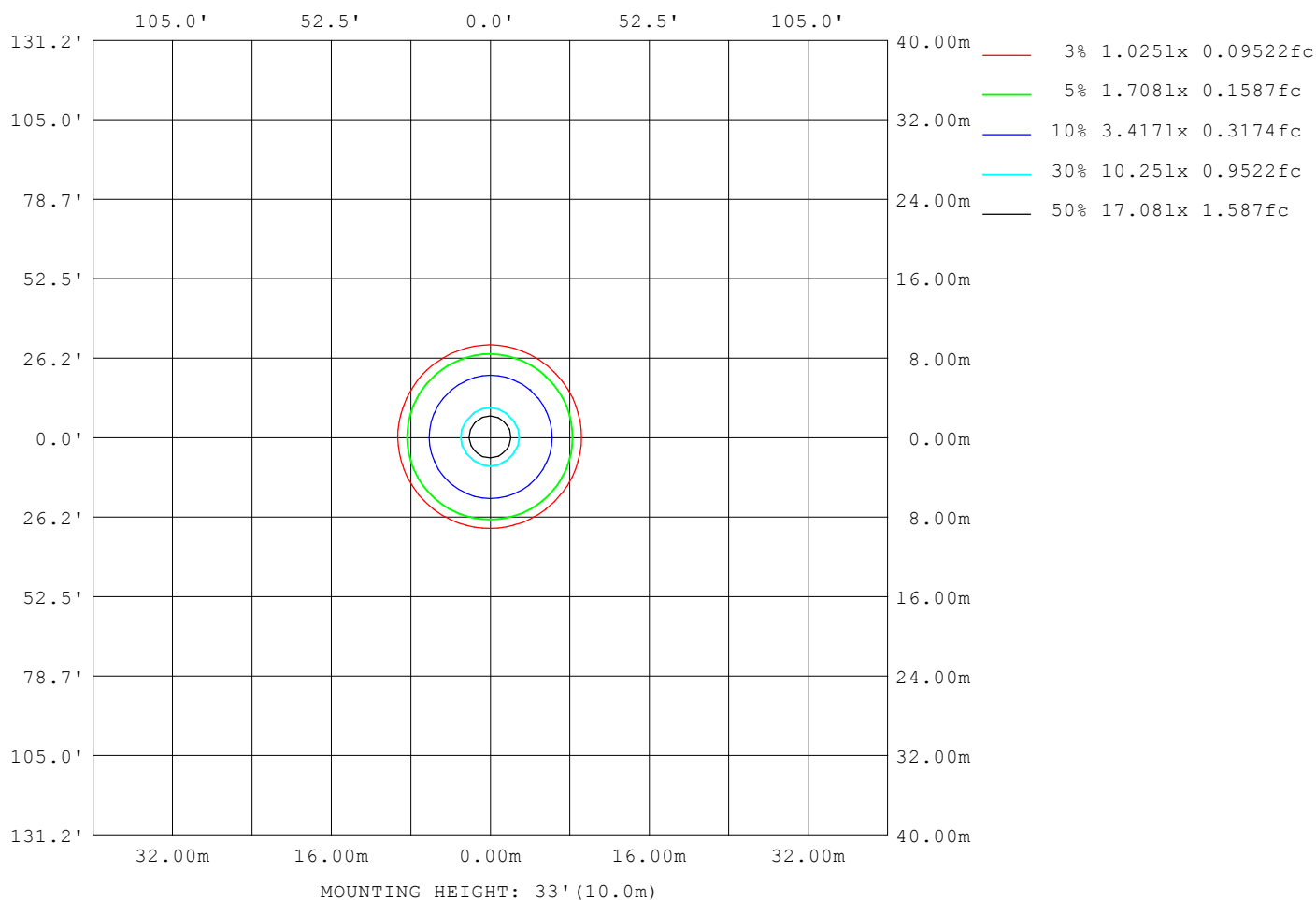
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654		Lamp Flux:1406.16x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.4V I:0.0549A P:12.5W PF:0.9485 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.86% KDisp:0.9654 Lamp Flux:1406.16x1 lm		
NAME: FUSION-MD23-AHD-013-COB-02SC 3000K RA90 25D 13WTYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

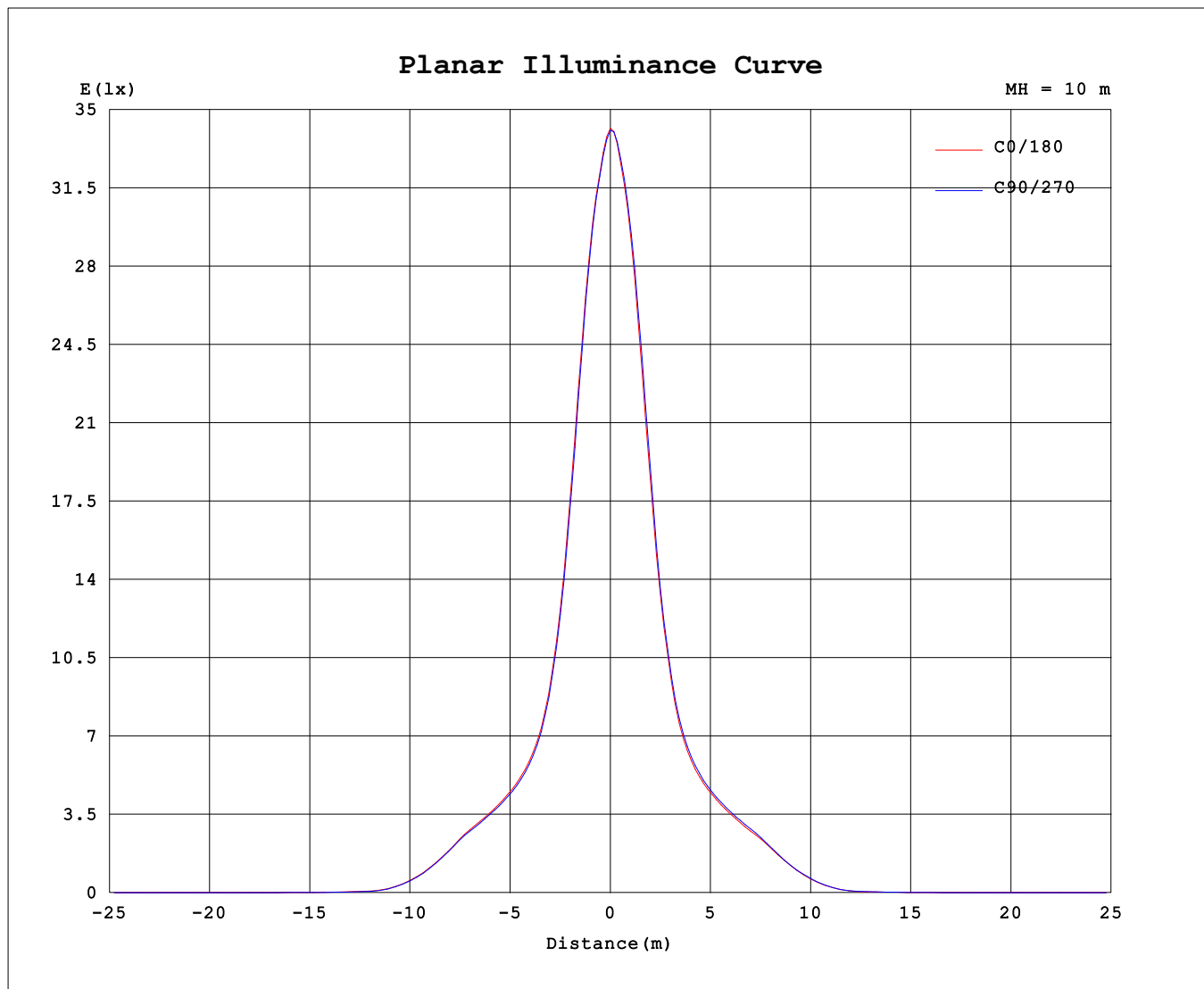
AvgL	cd/m2
L_0~180 (65) av	10700
L_0~180 (75) av	13520
L_0~180 (85) av	22141
L_90~270 (65) av	10573
L_90~270 (75) av	13729
L_90~270 (85) av	22959
L_45 (65) av	10631
L_45 (75) av	13414
L_45 (85) av	22169

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-10-17

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	3409	3409	3409	3409	3409	3409	3409	3409
3.0	3221	3205	3216	3243	3267	3289	3295	3262
6.0	2884	2852	2863	2915	2952	2981	2996	2933
9.0	2336	2290	2294	2362	2413	2472	2482	2399
12.0	1728	1693	1690	1753	1816	1866	1875	1795
15.0	1251	1231	1225	1264	1320	1347	1353	1301
18.0	945.3	924.9	926.7	941.5	975.5	993.0	1004	969.2
21.0	772.0	762.9	755.4	764.4	780.7	795.5	805.8	791.3
24.0	681.6	673.1	666.8	670.4	680.0	688.9	700.5	692.7
27.0	623.4	617.3	610.8	613.2	618.3	624.2	635.1	631.8
30.0	579.3	574.2	568.4	569.3	571.7	578.3	588.9	587.8
33.0	540.3	536.8	529.7	528.9	529.9	537.9	548.4	547.7
36.0	494.2	490.6	485.1	485.4	486.9	495.8	505.2	499.0
39.0	395.0	392.6	390.4	402.4	410.3	418.2	419.3	403.9
42.0	273.6	266.6	269.1	283.2	295.0	301.1	300.9	282.9
45.0	155.6	148.1	149.9	163.9	175.4	181.5	180.8	164.6
48.0	60.51	55.41	57.90	68.27	76.72	82.46	78.57	71.51
51.0	27.01	23.86	22.97	23.48	24.21	27.47	28.59	27.02
54.0	17.38	15.20	15.12	15.90	15.65	16.97	18.43	17.66
57.0	10.99	10.08	10.29	10.42	10.49	11.34	11.71	11.10
60.0	8.060	7.599	7.489	7.642	7.601	7.952	8.178	8.040
63.0	6.503	6.394	6.194	6.145	6.141	6.250	6.357	6.390
66.0	5.883	5.830	5.585	5.492	5.516	5.550	5.676	5.769
69.0	5.413	5.418	5.125	4.983	5.038	5.051	5.247	5.354
72.0	5.032	5.044	4.687	4.518	4.584	4.673	4.899	4.971
75.0	4.779	4.865	4.623	4.198	4.319	4.362	4.615	4.629
78.0	5.232	5.608	5.535	4.893	4.977	4.816	4.981	4.949
81.0	5.093	5.246	5.068	4.701	4.840	4.961	4.977	4.762
84.0	3.383	3.323	3.009	2.762	2.979	3.365	3.509	3.348
87.0	0.8489	0.6644	0.5611	0.5596	0.7859	1.057	1.196	0.9957
90.0	0.0484	0.0430	0.0562	0.0442	0.0458	0.0427	0.0476	0.0400

C Range: 0 - 360DEG
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