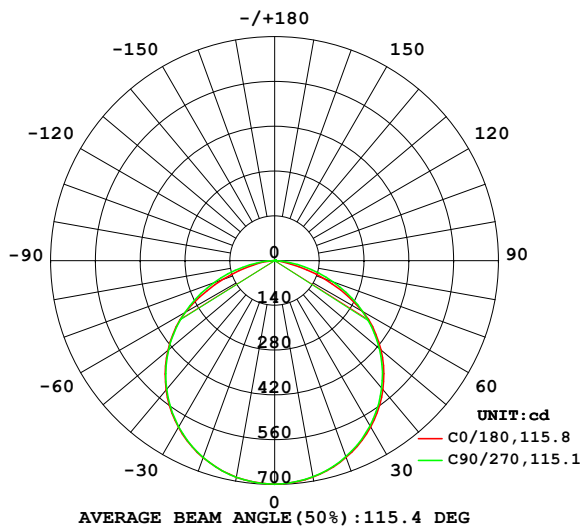


LUMINAIRE PHOTOMETRIC TEST REPORT

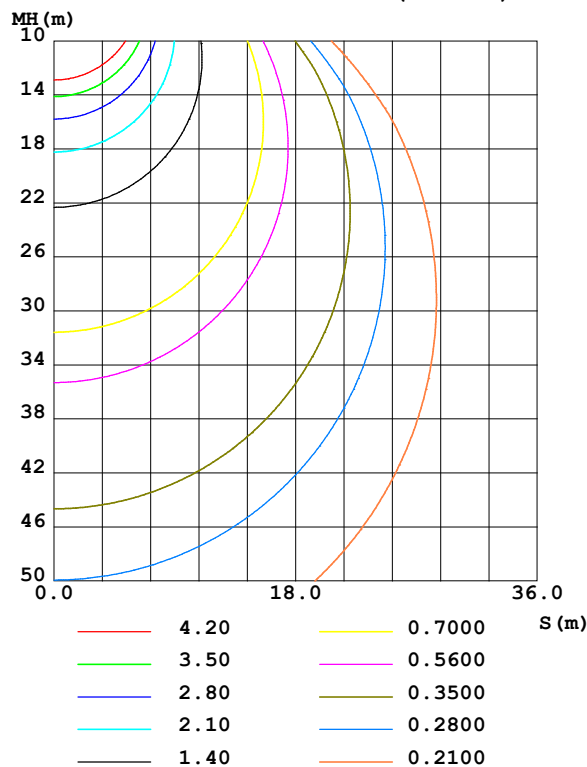
Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.38 lm/W
MODEL	3000K RA90	I _{max} (cd)	698.3	S/MH(C0/180)	1.28	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.28	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	2045.8	η UP,DN(C0-180)	0.2,49.6	
NOMINAL FLUX(lm)	17.0485	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,50.1	
LAMPS INSIDE	120	η up (%)	0.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	η down (%)	99.7	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:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [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	687.1	686.3	686.4	687.0	687.6	688.1	687.8	687.3	0- 10	66.12	66.12	3.23,3.23
20	654.3	652.4	652.0	653.7	655.1	655.8	654.7	654.3	10- 20	190.1	256.2	12.5,12.5
30	600.3	597.2	596.3	599.2	601.6	602.2	600.1	600.1	20- 30	290.2	546.4	26.7,26.7
40	526.2	522.0	520.7	524.7	528.1	528.6	525.8	526.0	30- 40	353.4	899.8	44,44
50	433.6	428.5	427.2	432.1	435.8	436.7	433.3	433.2	40- 50	371.0	1271	62.1,62.1
60	317.0	318.3	317.3	322.6	322.5	327.7	324.2	323.6	50- 60	339.0	1610	78.7,78.7
70	164.8	194.8	194.6	199.7	171.6	205.4	202.3	200.9	60- 70	257.1	1867	91.3,91.3
80	30.76	73.29	73.20	77.54	51.33	81.82	79.36	77.59	70- 80	139.9	2007	98.1,98.1
90	0.3549	2.061	1.056	2.022	0.3939	3.381	1.690	2.327	80- 90	32.01	2039	99.7,99.7
100	0.4907	0.4697	0.4831	0.4723	0.5438	0.5358	0.5066	0.5252	90-100	0.8478	2040	99.7,99.7
110	0.7427	0.7164	0.6924	0.7215	0.7801	0.7590	0.7271	0.7483	100-110	0.6481	2040	99.7,99.7
120	1.021	0.9737	0.9496	0.9788	1.032	0.9953	0.9633	0.9871	110-120	0.8517	2041	99.8,99.8
130	1.284	1.231	1.215	1.244	1.295	1.250	1.218	1.231	120-130	0.9986	2042	99.8,99.8
140	1.525	1.473	1.467	1.493	1.536	1.502	1.464	1.473	130-140	1.059	2043	99.9,99.9
150	1.743	1.698	1.705	1.719	1.759	1.730	1.708	1.701	140-150	1.007	2044	99.9,99.9
160	1.922	1.895	1.934	1.916	1.938	1.925	1.934	1.901	150-160	0.8396	2045	100,100
170	2.066	2.069	2.112	2.071	2.085	2.085	2.128	2.076	160-170	0.5660	2046	100,100
180	2.158	2.166	2.207	2.160	2.158	2.166	2.207	2.176	170-180	0.2026	2046	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1123.4 lm

%lum = 54.9%

%lamp = 54.9%

Conical surface Flux(120deg): 1609.7 lm

%lum = 78.7%

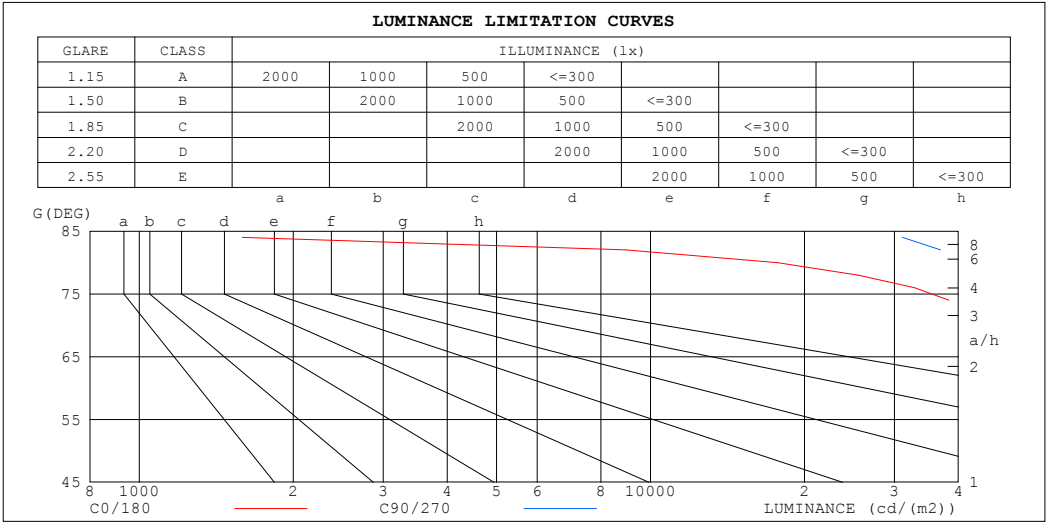
%lamp = 78.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
 Humidity:65.0%
 Test Distance:6.040m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1908	37306
80	17712	42170
75	40842	55763
70	48164	56911
65	60723	63782
60	63388	63479
55	68274	67154
50	67433	66478
45	69455	68660

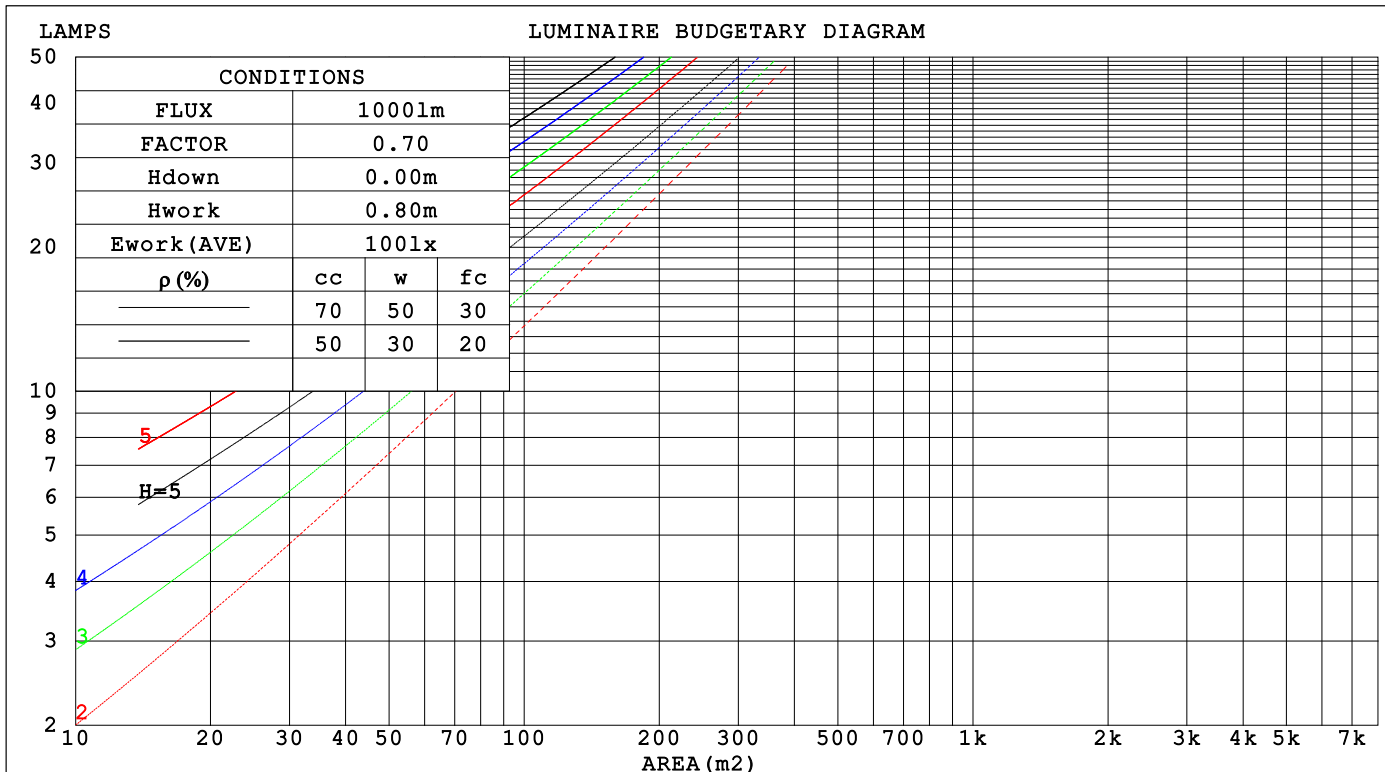
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	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	.00														
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84														
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.78	.75	.72	.69														
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.60	.58														
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50														
5.0	.63	.53	.47	.61	.53	.47	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43														
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37														
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.35	.47	.40	.35	.46	.40	.35	.33														
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29														
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26														
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24														



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	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	.307	.175	.055	.300	.171	.054	.287	.164	.052	.274	.158	.051	.263	.152	.049		
2.0	.291	.159	.049	.285	.157	.048	.273	.152	.047	.262	.147	.046	.252	.142	.045		
3.0	.270	.144	.043	.264	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040		
4.0	.249	.130	.038	.244	.128	.038	.235	.125	.037	.226	.122	.037	.218	.119	.036		
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.210	.111	.033	.203	.109	.033		
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030		
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021		

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021		
1.0	.183	.159	.137	.156	.136	.118	.107	.094	.082	.062	.054	.047	.020	.017	.015		
2.0	.175	.135	.101	.150	.116	.087	.103	.080	.061	.059	.047	.036	.019	.015	.012		
3.0	.167	.117	.077	.143	.101	.067	.098	.070	.047	.057	.041	.028	.018	.013	.009		
4.0	.160	.104	.061	.137	.090	.053	.094	.062	.037	.054	.037	.022	.018	.012	.007		
5.0	.152	.093	.050	.131	.081	.043	.090	.056	.031	.052	.033	.018	.017	.011	.006		
6.0	.145	.085	.042	.125	.074	.036	.086	.051	.026	.050	.030	.015	.016	.010	.005		
7.0	.138	.078	.036	.119	.068	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004		
8.0	.132	.072	.031	.113	.063	.027	.079	.044	.019	.046	.026	.012	.015	.009	.004		
9.0	.126	.067	.028	.108	.058	.024	.075	.041	.017	.044	.024	.010	.014	.008	.003		
10.0	.120	.063	.025	.103	.055	.022	.072	.039	.016	.042	.023	.009	.014	.007	.003		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm										
NAME: 2835 1200D IP20					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.: 0.010*1			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	25.0	26.5	25.3	26.7	26.9	24.9	26.5	25.2	26.7	26.9
3H	26.3	27.7	26.6	28.0	28.2	26.4	27.8	26.7	28.1	28.3
4H	26.7	28.0	27.0	28.3	28.6	27.0	28.3	27.3	28.6	28.8
6H	26.8	28.1	27.2	28.4	28.6	27.3	28.6	27.7	28.9	29.2
8H	26.8	28.0	27.1	28.3	28.6	27.4	28.6	27.7	28.9	29.2
12H	26.7	27.9	27.1	28.2	28.5	27.4	28.6	27.8	28.9	29.2
4H 2H	25.6	26.9	25.9	27.2	27.4	25.5	26.9	25.9	27.1	27.4
3H	27.1	28.3	27.5	28.6	28.9	27.2	28.4	27.6	28.7	29.0
4H	27.7	28.8	28.1	29.1	29.4	27.9	29.0	28.3	29.3	29.6
6H	27.9	28.9	28.4	29.3	29.6	28.3	29.3	28.7	29.6	30.0
8H	28.0	28.8	28.4	29.2	29.6	28.4	29.3	28.9	29.7	30.1
12H	27.9	28.7	28.4	29.1	29.5	28.5	29.3	28.9	29.7	30.1
8H 4H	28.0	28.8	28.4	29.2	29.6	28.1	29.0	28.5	29.4	29.8
6H	28.4	29.1	28.8	29.5	29.9	28.7	29.4	29.1	29.8	30.3
8H	28.5	29.1	28.9	29.5	30.0	28.9	29.5	29.3	29.9	30.4
12H	28.5	29.0	29.0	29.5	30.0	29.0	29.5	29.4	30.0	30.5
12H 4H	28.0	28.8	28.4	29.2	29.6	28.1	28.9	28.6	29.3	29.7
6H	28.4	29.1	28.9	29.5	29.9	28.7	29.4	29.2	29.8	30.3
8H	28.5	29.1	29.0	29.5	30.0	28.9	29.5	29.4	29.9	30.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117, 2046 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.5)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

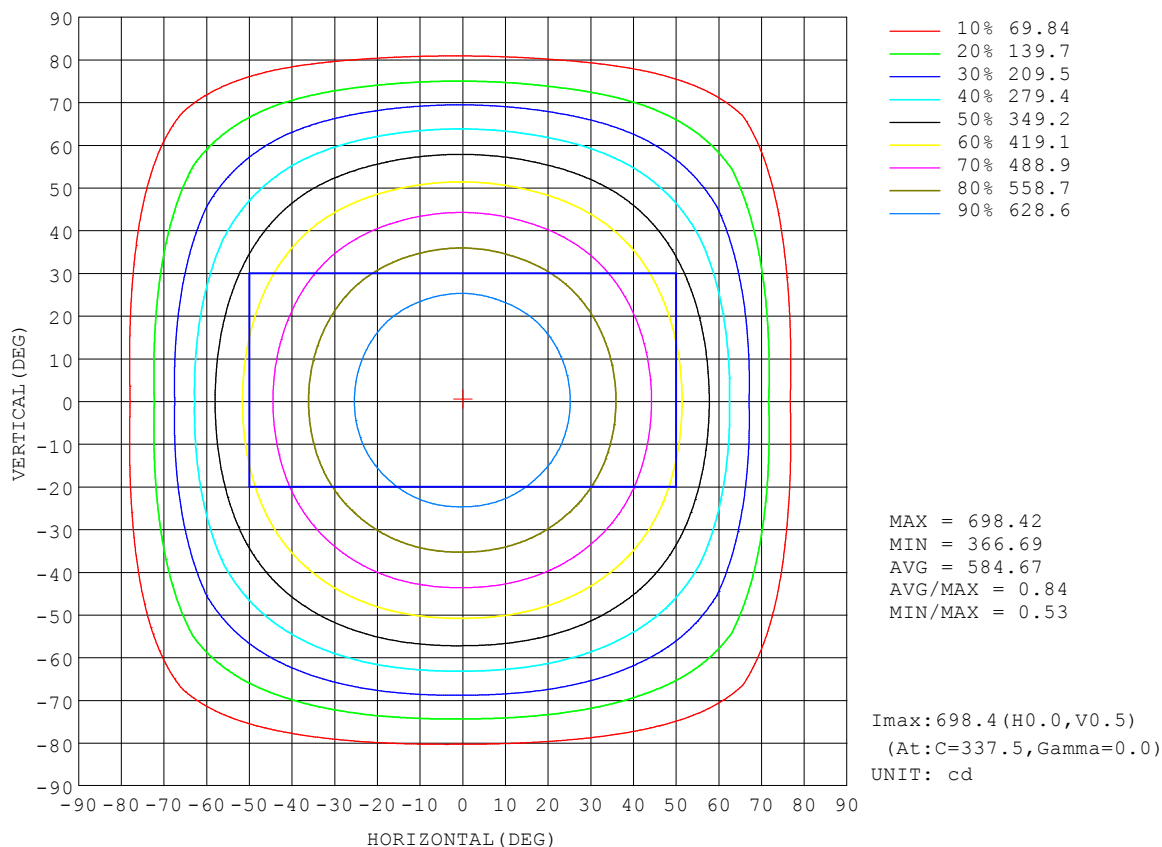
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	101	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:
Test Date: 2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity: 65.0%
Test Distance: 6.040m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

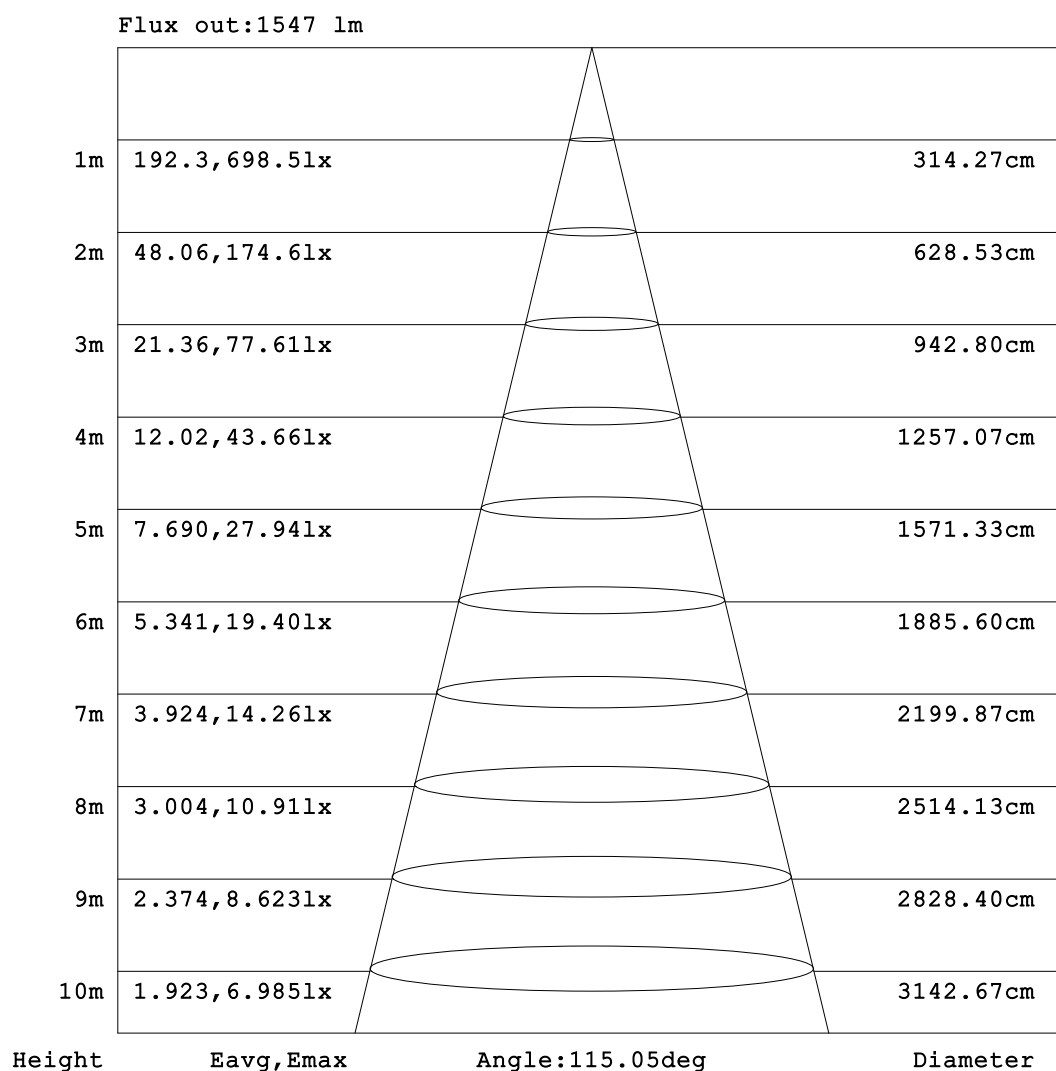


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity: 65.0%
Test Distance: 6.040m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



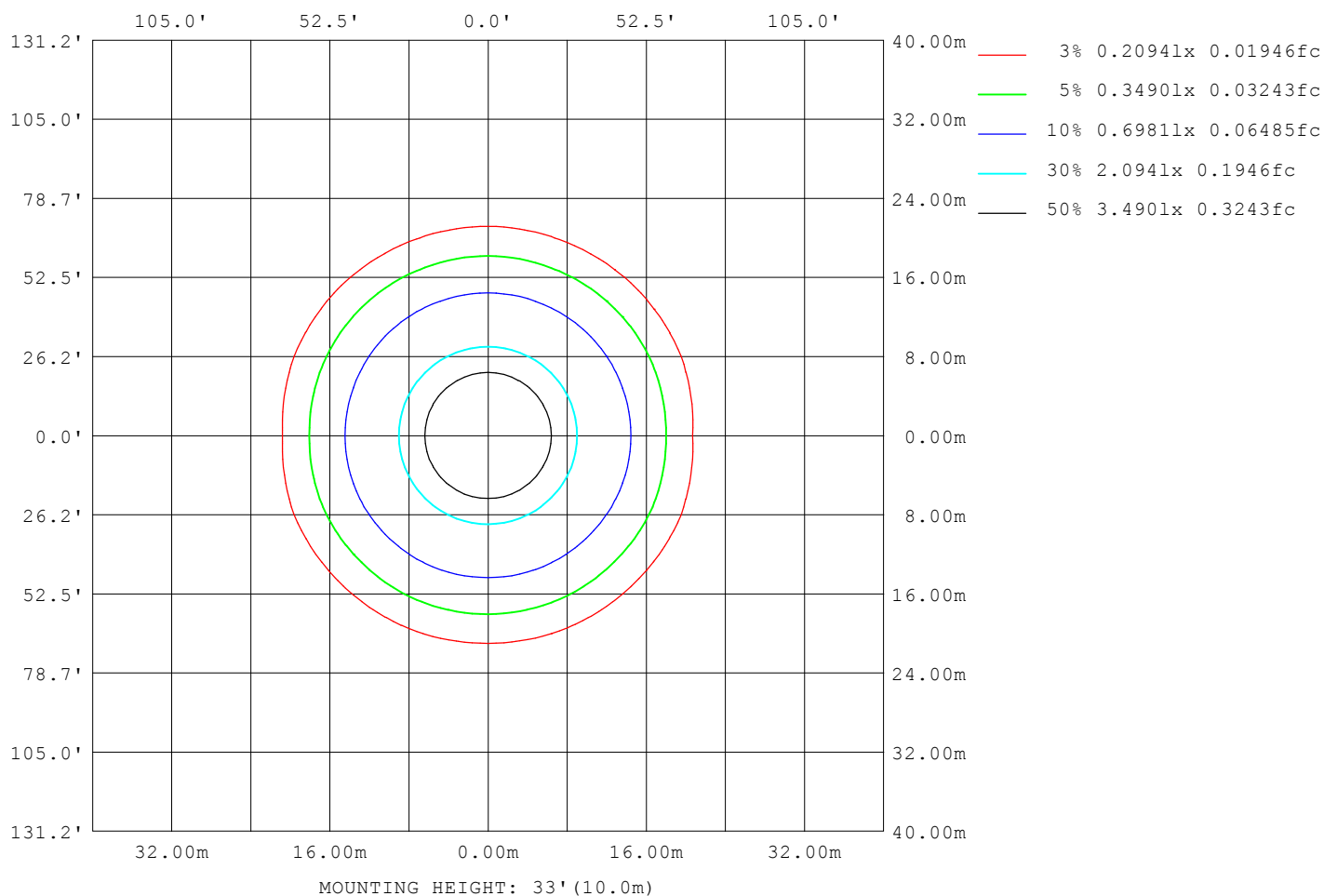
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm		
NAME: 2835 1200D IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

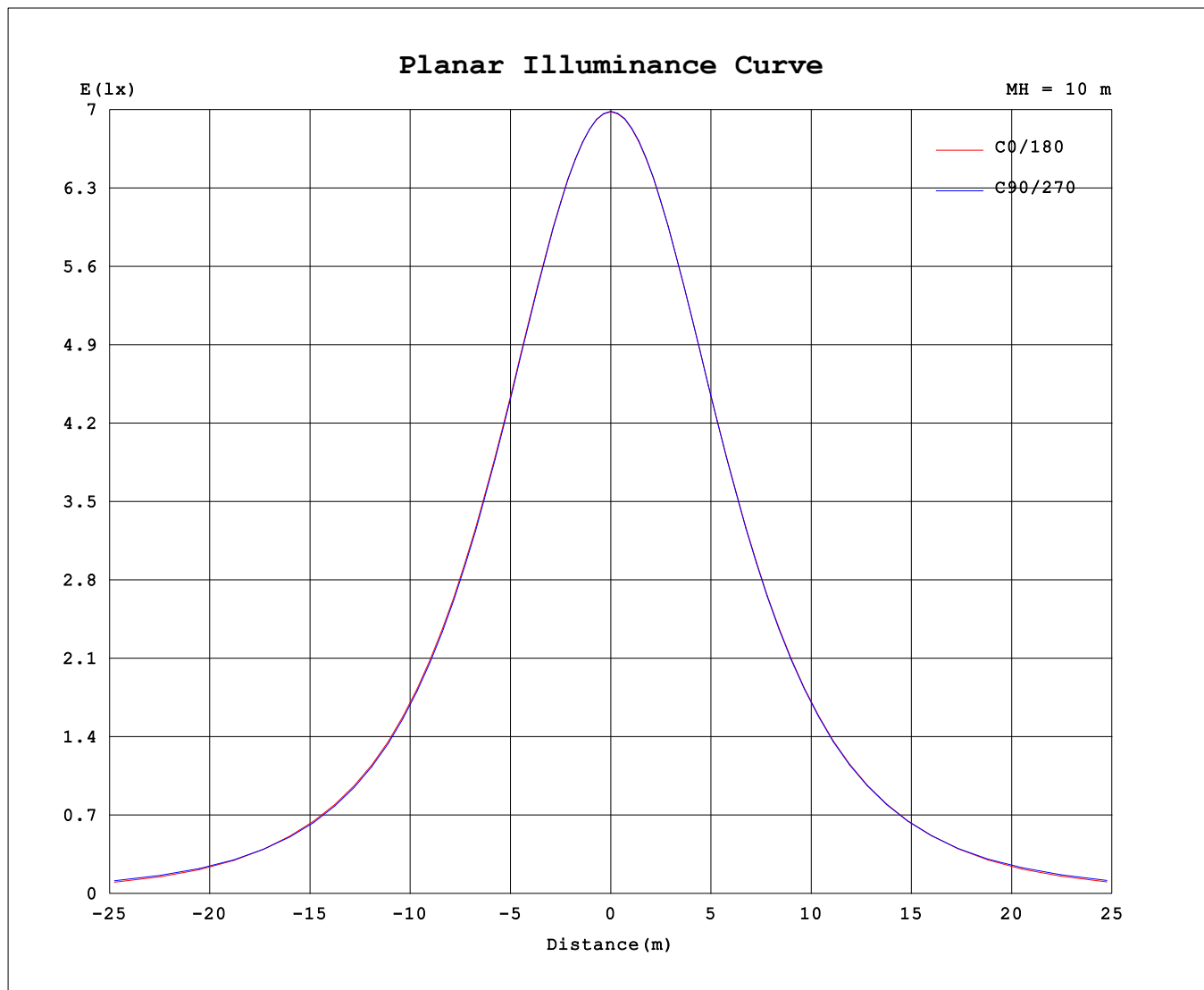
AvgL	cd/m2
L_0~180 (65) av	57792
L_0~180 (75) av	37712
L_0~180 (85) av	7012
L_90~270 (65) av	61725
L_90~270 (75) av	52417
L_90~270 (85) av	30657
L_45 (65) av	62211
L_45 (75) av	52953
L_45 (85) av	32399

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
 Humidity:65.0%
 Test Distance:6.040m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.450
 Humidity: 65.0%
 Test Distance: 6.040m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:1.0103A P:24.245W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0485x120 lm																	
NAME: 2835 1200D IP20									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.: 0.010*1						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	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	
5	696	696	696	696	696	696	696	697	697	697	697	697	697	697	697	696	
10	687	687	686	686	686	687	687	687	688	688	688	688	688	687	687	687	
15	677	676	675	675	675	676	676	677	677	677	678	677	677	676	677	677	
20	654	654	652	652	652	653	654	655	655	655	656	655	655	654	654	654	
25	635	635	633	633	632	634	634	636	636	636	637	636	635	634	635	635	
30	600	600	597	597	596	598	599	601	602	602	602	600	600	599	600	600	
35	573	572	570	569	568	571	572	574	574	574	575	573	573	571	573	573	
40	526	525	522	522	521	524	525	527	528	528	529	526	526	524	526	526	
45	491	490	487	486	485	488	490	493	493	493	494	491	491	489	491	491	
50	434	432	429	428	427	431	432	435	436	436	437	434	433	431	433	433	
55	392	390	386	386	385	389	390	394	394	394	395	392	391	390	391	391	
60	317	323	318	318	317	321	323	326	323	326	328	325	324	322	324	323	
65	257	274	270	270	269	273	275	278	262	279	280	277	277	274	276	275	
70	165	199	195	195	195	199	200	203	172	203	205	203	202	200	201	199	
75	106	148	144	145	144	148	149	153	116	153	155	152	152	149	150	148	
80	30.8	75.3	73.3	72.8	73.2	75.7	77.5	79.4	51.3	80.7	81.8	80.5	79.4	77.8	77.6	77.0	
85	1.66	35.3	33.1	33.2	32.5	35.4	36.4	38.6	19.5	39.0	40.4	38.6	38.1	36.3	36.9	35.9	
90	0.35	2.43	2.06	1.57	1.06	1.55	2.02	2.81	0.39	3.21	3.38	2.31	1.69	1.70	2.33	2.42	
95	0.36	0.38	0.79	0.86	0.70	0.92	0.96	0.39	0.42	0.44	0.92	0.98	0.78	0.90	0.76	0.44	
100	0.49	0.50	0.47	0.47	0.48	0.49	0.47	0.50	0.54	0.51	0.54	0.51	0.51	0.48	0.53	0.52	
105	0.59	0.60	0.56	0.56	0.54	0.58	0.57	0.60	0.64	0.60	0.61	0.58	0.59	0.56	0.61	0.61	
110	0.74	0.76	0.72	0.72	0.69	0.73	0.72	0.76	0.78	0.74	0.76	0.72	0.73	0.70	0.75	0.76	
115	0.85	0.87	0.82	0.82	0.80	0.83	0.83	0.86	0.87	0.83	0.86	0.82	0.82	0.80	0.85	0.84	
120	1.02	1.02	0.97	0.97	0.95	0.99	0.98	1.02	1.03	0.98	1.00	0.96	0.96	0.93	0.99	1.00	
125	1.13	1.13	1.07	1.08	1.06	1.10	1.08	1.12	1.13	1.09	1.10	1.06	1.06	1.03	1.08	1.10	
130	1.28	1.28	1.23	1.23	1.21	1.27	1.24	1.28	1.29	1.24	1.25	1.22	1.22	1.18	1.23	1.24	
135	1.39	1.38	1.33	1.33	1.31	1.38	1.35	1.38	1.39	1.34	1.35	1.33	1.32	1.28	1.33	1.34	
140	1.53	1.53	1.47	1.48	1.47	1.53	1.49	1.53	1.54	1.49	1.50	1.47	1.46	1.43	1.47	1.48	
145	1.62	1.61	1.56	1.57	1.57	1.62	1.59	1.62	1.63	1.58	1.60	1.57	1.57	1.53	1.56	1.57	
150	1.74	1.74	1.70	1.71	1.71	1.76	1.72	1.76	1.76	1.72	1.73	1.71	1.71	1.66	1.70	1.70	
155	1.82	1.82	1.78	1.80	1.80	1.84	1.81	1.83	1.84	1.79	1.81	1.80	1.80	1.74	1.78	1.77	
160	1.92	1.94	1.90	1.92	1.93	1.97	1.92	1.94	1.94	1.90	1.92	1.92	1.93	1.87	1.90	1.89	
165	1.98	2.00	1.97	2.00	2.01	2.04	1.98	2.01	2.00	1.97	2.00	1.99	2.02	1.94	1.98	1.96	
170	2.07	2.10	2.07	2.10	2.11	2.12	2.07	2.09	2.08	2.06	2.08	2.08	2.13	2.06	2.08	2.05	
175	2.11	2.14	2.12	2.15	2.16	2.16	2.11	2.13	2.13	2.10	2.13	2.12	2.17	2.12	2.13	2.10	
180	2.16	2.16	2.17	2.18	2.21	2.20	2.16	2.16	2.16	2.16	2.17	2.18	2.21	2.18	2.18	2.16	

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C Interval: 22.5DEG
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