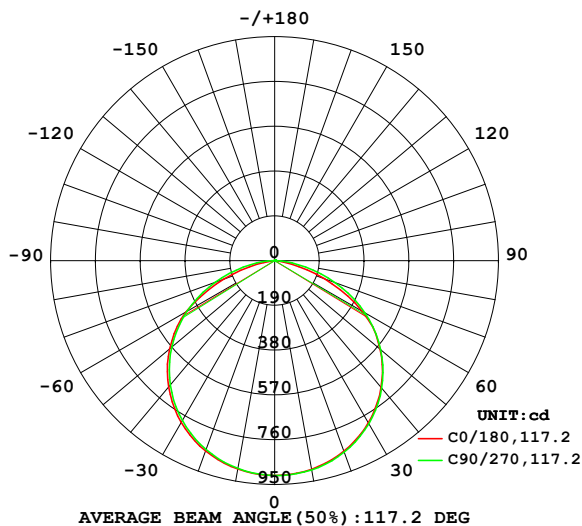


LUMINAIRE PHOTOMETRIC TEST REPORT

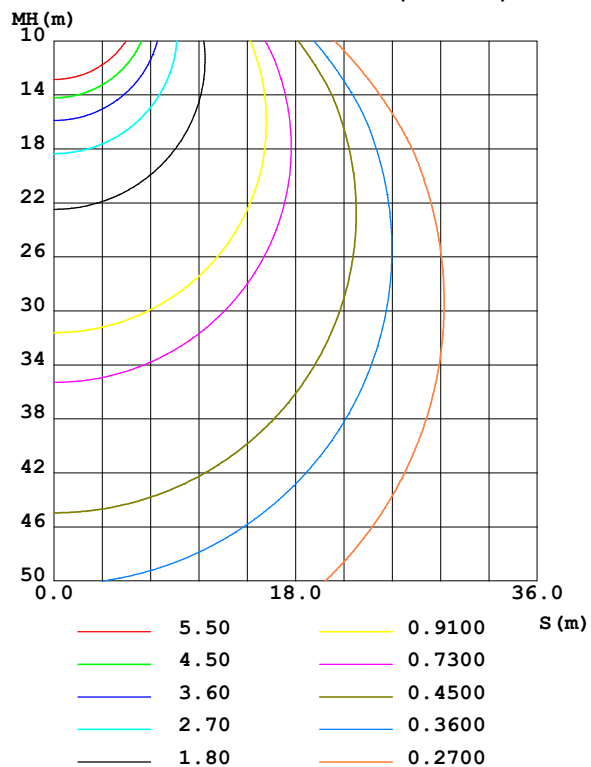
Test:U:23.998V I:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 171.58 lm/W			
MODEL	4000K RA80	I _{max} (cd)	911.7	S/MH(C0/180)	1.29
NOMINAL POWER(W)	14.4	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	2733.2	η UP,DN(C0-180)	0.2,50.2
NOMINAL FLUX(lm)	17.0823	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,49.4
LAMPS INSIDE	160	η up (%)	0.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down (%)	99.6	CIBSE SHR MAX	1.50

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:2024-04-12

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	899.0	900.5	901.5	900.7	898.4	896.5	895.4	896.3	0- 10	86.39	86.39	3.16,3.16
20	860.2	862.7	864.3	863.3	858.9	855.1	852.4	854.8	10- 20	249.1	335.5	12.3,12.3
30	794.8	797.7	799.3	798.7	792.8	787.6	783.3	787.0	20- 30	382.3	717.8	26.3,26.3
40	702.9	705.4	706.8	706.8	700.2	694.2	688.9	693.6	30- 40	469.0	1187	43.4,43.4
50	584.6	585.9	587.2	588.0	581.4	576.0	570.1	575.2	40- 50	496.3	1683	61.6,61.6
60	426.4	440.3	441.4	443.1	433.8	433.6	428.2	432.6	50- 60	457.0	2140	78.3,78.3
70	224.6	272.7	273.9	276.4	228.9	271.9	267.8	270.5	60- 70	348.9	2489	91.1,91.1
80	42.03	102.5	103.3	106.4	47.31	107.2	105.4	105.9	70- 80	190.3	2679	98,98
90	0.4342	3.775	4.180	4.696	0.5264	5.500	4.762	4.990	80- 90	43.77	2723	99.6,99.6
100	0.6811	0.6539	0.8866	0.7003	0.7503	0.7593	0.7998	0.7424	90-100	1.673	2725	99.7,99.7
110	1.015	0.9713	0.9516	1.004	1.071	1.064	1.021	1.039	100-110	0.9101	2726	99.7,99.7
120	1.386	1.313	1.298	1.353	1.421	1.392	1.351	1.364	110-120	1.175	2727	99.8,99.8
130	1.741	1.649	1.641	1.691	1.763	1.726	1.689	1.686	120-130	1.368	2728	99.8,99.8
140	2.057	1.967	1.972	2.016	2.079	2.051	2.015	2.004	130-140	1.438	2730	99.9,99.9
150	2.334	2.261	2.281	2.305	2.363	2.340	2.313	2.297	140-150	1.359	2731	99.9,99.9
160	2.555	2.521	2.578	2.559	2.584	2.584	2.602	2.554	150-160	1.126	2732	100,100
170	2.749	2.752	2.816	2.756	2.771	2.784	2.838	2.772	160-170	0.7560	2733	100,100
180	2.868	2.884	2.945	2.877	2.868	2.884	2.948	2.897	170-180	0.2697	2733	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1485.5 lm

%lum = 54.4%

%lamp = 54.4%

Conical surface Flux(120deg): 2140.1 lm

%lum = 78.3%

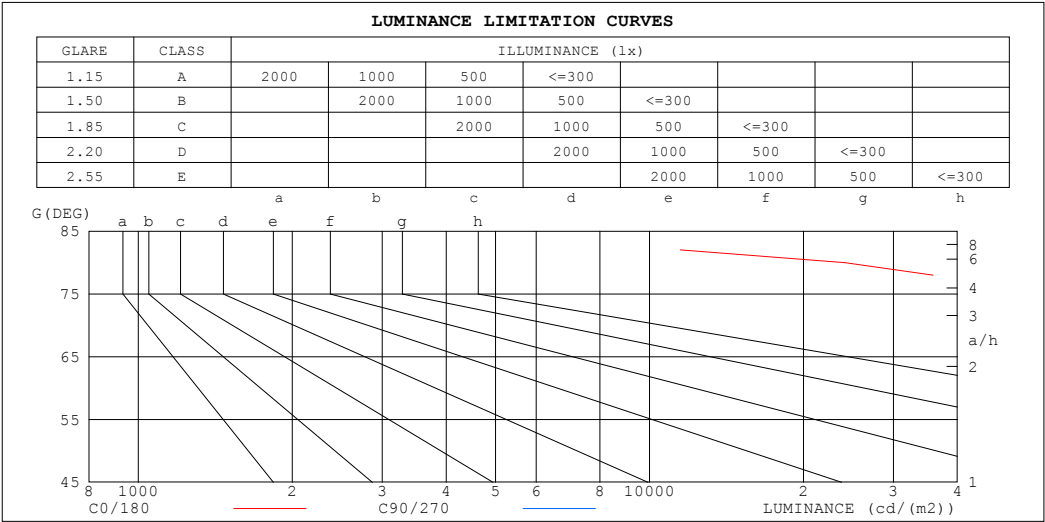
%lamp = 78.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	861	54759
80	24144	59527
75	55729	78923
70	65503	80164
65	81780	89194
60	85084	88362
55	92226	92799
50	90733	91437
45	92904	93724

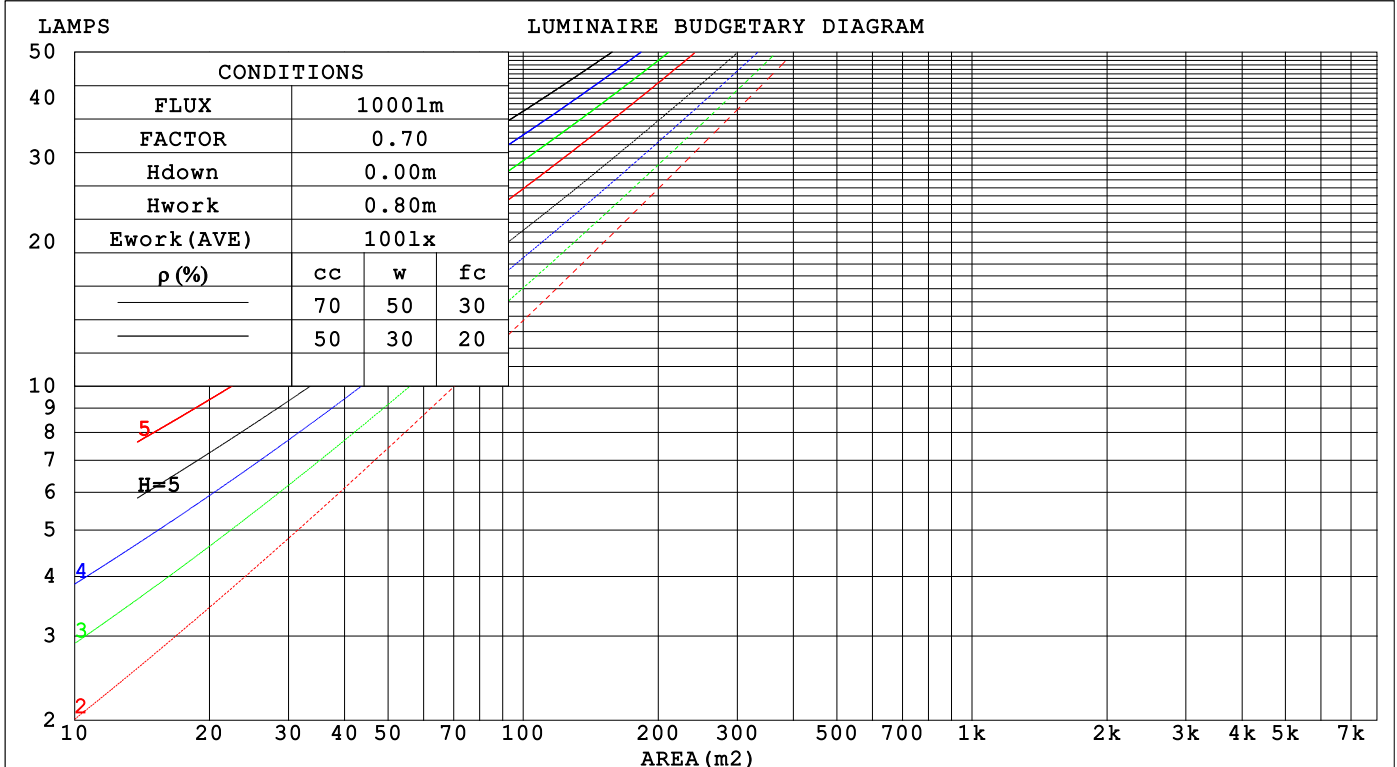
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	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	1.11	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	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.30	.25	.23



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-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	.309	.176	.056	.302	.172	.055	.288	.165	.053	.276	.159	.051	.265	.153	.049		
2.0	.293	.160	.049	.286	.158	.049	.274	.153	.047	.263	.148	.046	.253	.143	.045		
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040		
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.228	.122	.037	.219	.119	.036		
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.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	.157	.136	.118	.107	.094	.082	.062	.054	.048	.020	.017	.015		
2.0	.175	.135	.101	.150	.116	.087	.103	.080	.061	.059	.047	.036	.019	.015	.012		
3.0	.168	.117	.077	.144	.101	.067	.099	.070	.047	.057	.041	.028	.018	.013	.009		
4.0	.160	.104	.061	.137	.090	.053	.094	.063	.037	.055	.037	.022	.018	.012	.007		
5.0	.153	.094	.050	.131	.081	.043	.090	.057	.031	.052	.033	.018	.017	.011	.006		
6.0	.146	.085	.042	.125	.074	.036	.086	.052	.026	.050	.030	.015	.016	.010	.005		
7.0	.139	.078	.036	.119	.068	.031	.082	.048	.022	.048	.028	.013	.015	.009	.004		
8.0	.132	.073	.031	.114	.063	.027	.079	.044	.019	.046	.026	.012	.015	.009	.004		
9.0	.126	.068	.028	.109	.059	.024	.075	.041	.017	.044	.024	.010	.014	.008	.003		
10.0	.120	.063	.025	.104	.055	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm										
NAME: 2835-160D-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	25.1	26.6	25.4	26.8	27.1	25.2	26.7	25.4	26.9	27.1
3H	26.5	27.9	26.8	28.1	28.4	26.7	28.1	27.0	28.4	28.6
4H	26.9	28.2	27.2	28.5	28.7	27.3	28.6	27.6	28.9	29.1
6H	27.0	28.2	27.3	28.5	28.8	27.6	28.9	28.0	29.2	29.5
8H	26.9	28.2	27.3	28.5	28.8	27.7	28.9	28.1	29.2	29.5
12H	26.9	28.1	27.2	28.4	28.7	27.7	28.9	28.1	29.2	29.5
4H 2H	25.7	27.1	26.1	27.3	27.6	25.8	27.1	26.1	27.4	27.7
3H	27.3	28.5	27.7	28.8	29.1	27.5	28.7	27.9	29.0	29.3
4H	27.9	29.0	28.3	29.3	29.6	28.2	29.3	28.6	29.6	29.9
6H	28.2	29.1	28.6	29.5	29.8	28.7	29.6	29.1	30.0	30.3
8H	28.2	29.0	28.6	29.4	29.8	28.8	29.7	29.2	30.0	30.4
12H	28.1	28.9	28.6	29.3	29.7	28.8	29.6	29.3	30.0	30.5
8H 4H	28.2	29.0	28.6	29.4	29.8	28.4	29.3	28.8	29.7	30.1
6H	28.6	29.3	29.0	29.7	30.2	29.0	29.8	29.5	30.2	30.6
8H	28.7	29.3	29.1	29.8	30.2	29.2	29.9	29.7	30.3	30.7
12H	28.7	29.3	29.2	29.7	30.2	29.3	29.9	29.8	30.3	30.8
12H 4H	28.2	29.0	28.6	29.4	29.8	28.4	29.2	28.9	29.6	30.0
6H	28.6	29.3	29.1	29.7	30.2	29.1	29.7	29.5	30.1	30.6
8H	28.8	29.3	29.3	29.8	30.3	29.3	29.8	29.8	30.3	30.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 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, 2733 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.5)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

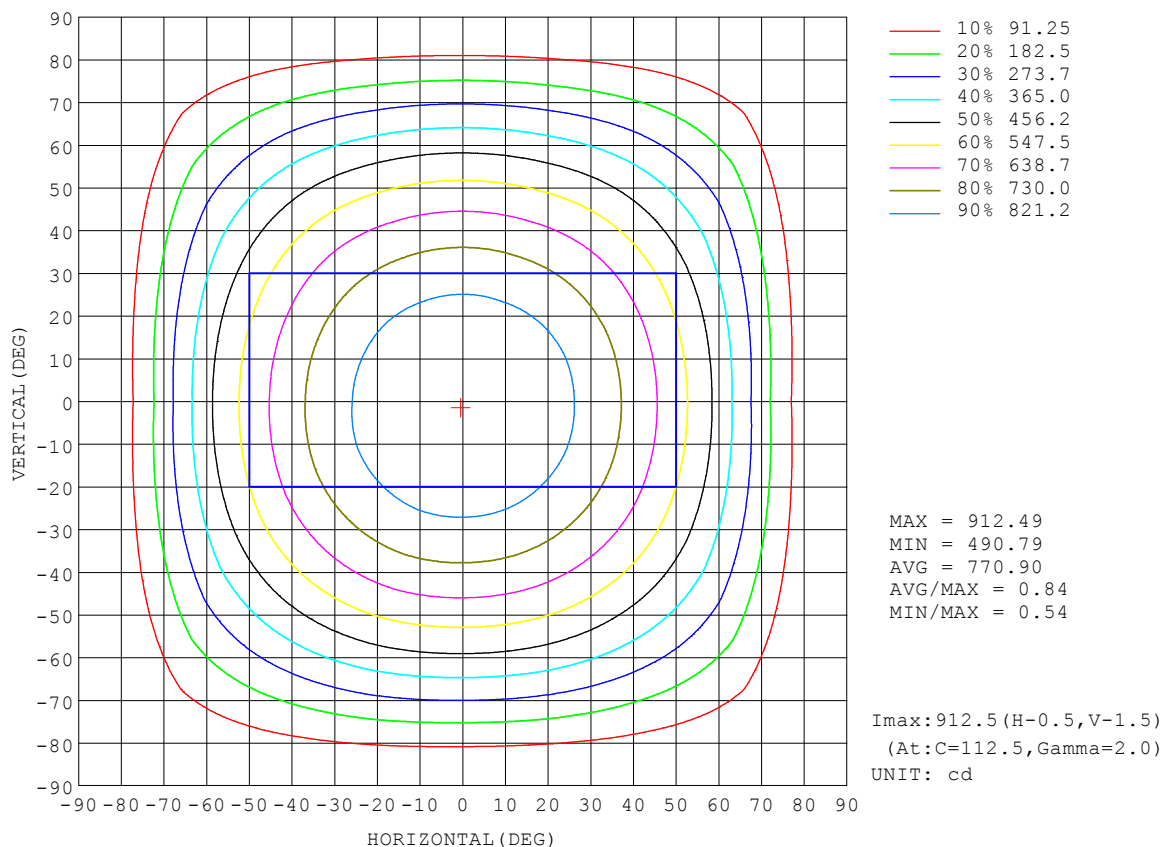
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	73
3.00	102	95	90	100	94	88	96	91	86	78
4.00	106	100	96	104	99	94	99	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:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

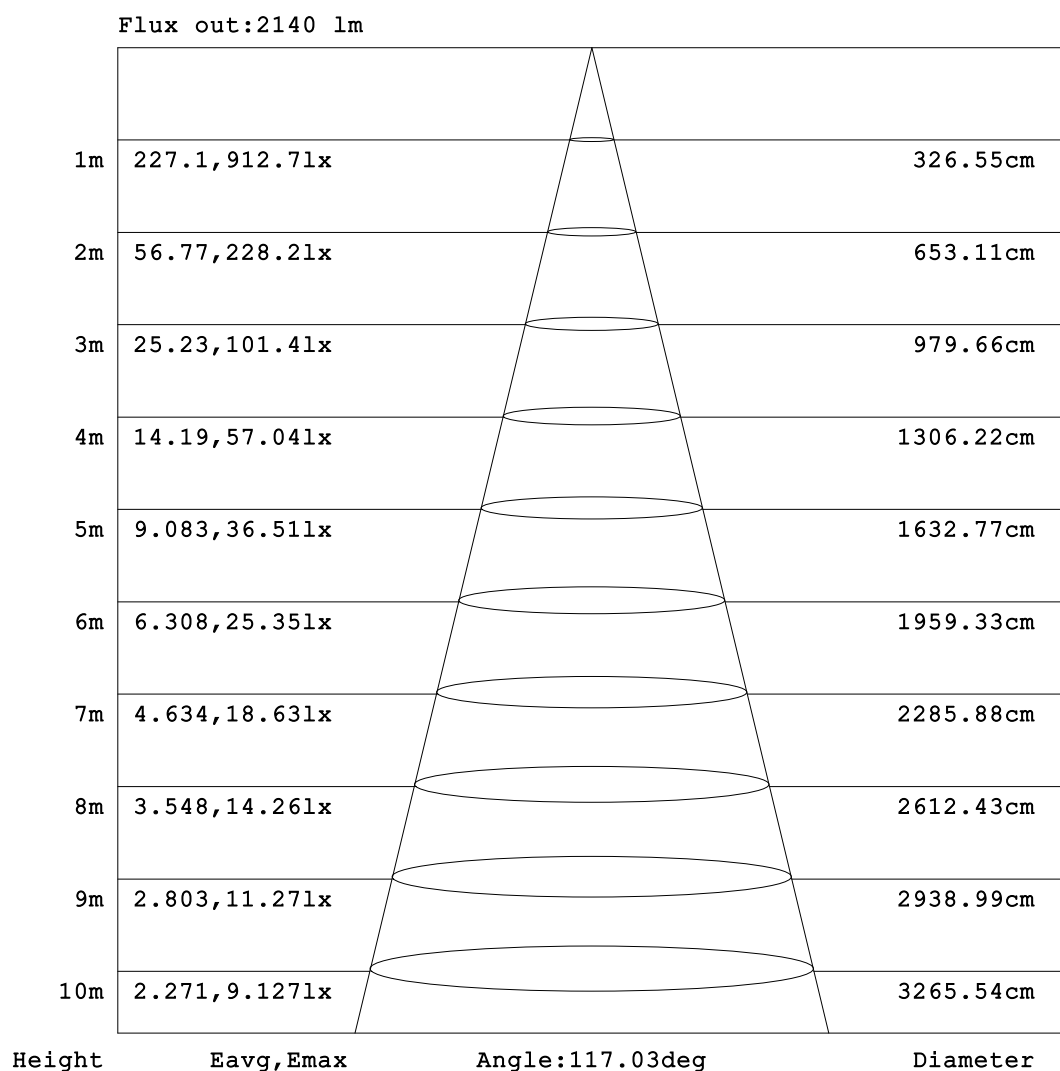


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



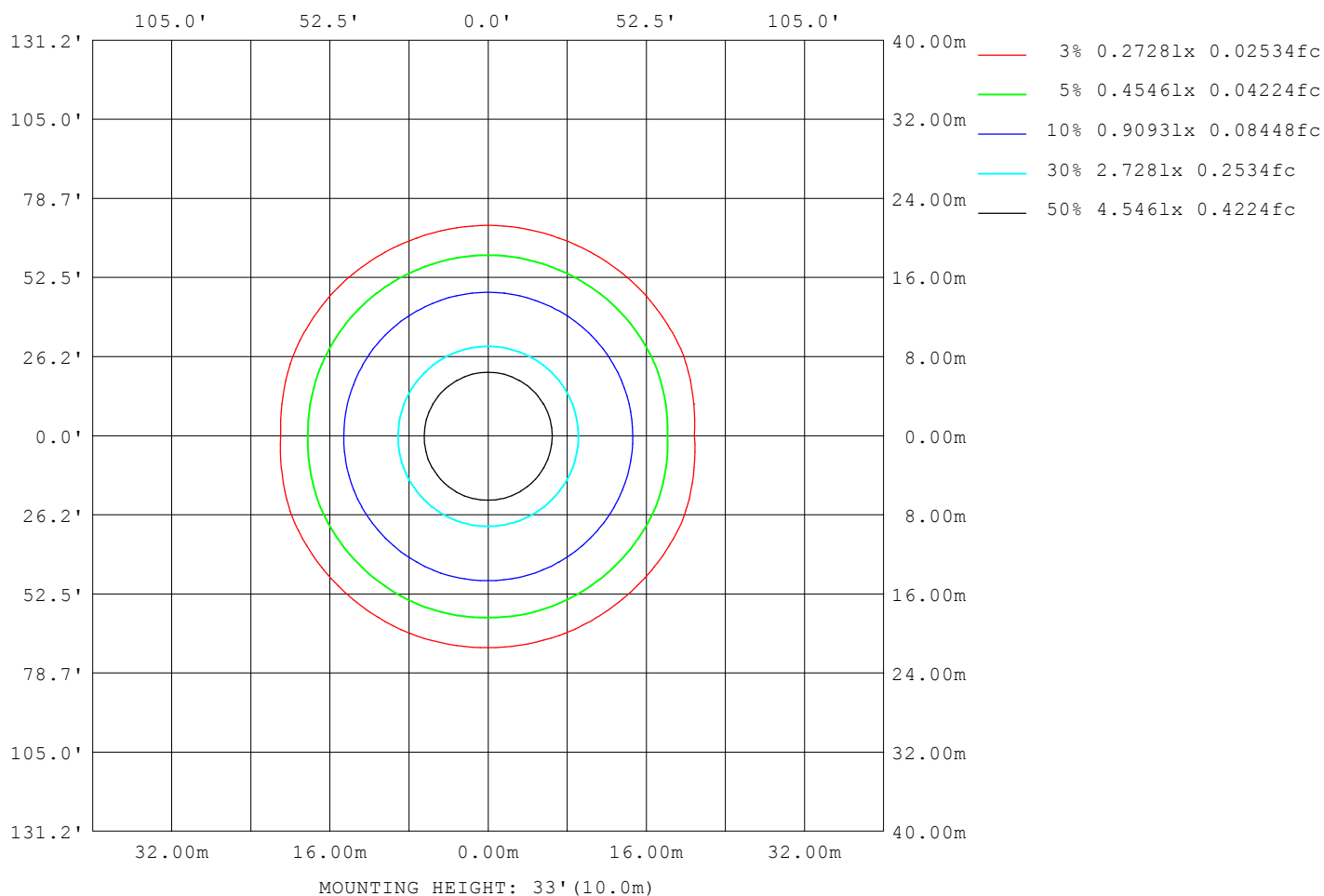
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-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:2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm		
NAME: 2835-160D-IP20	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

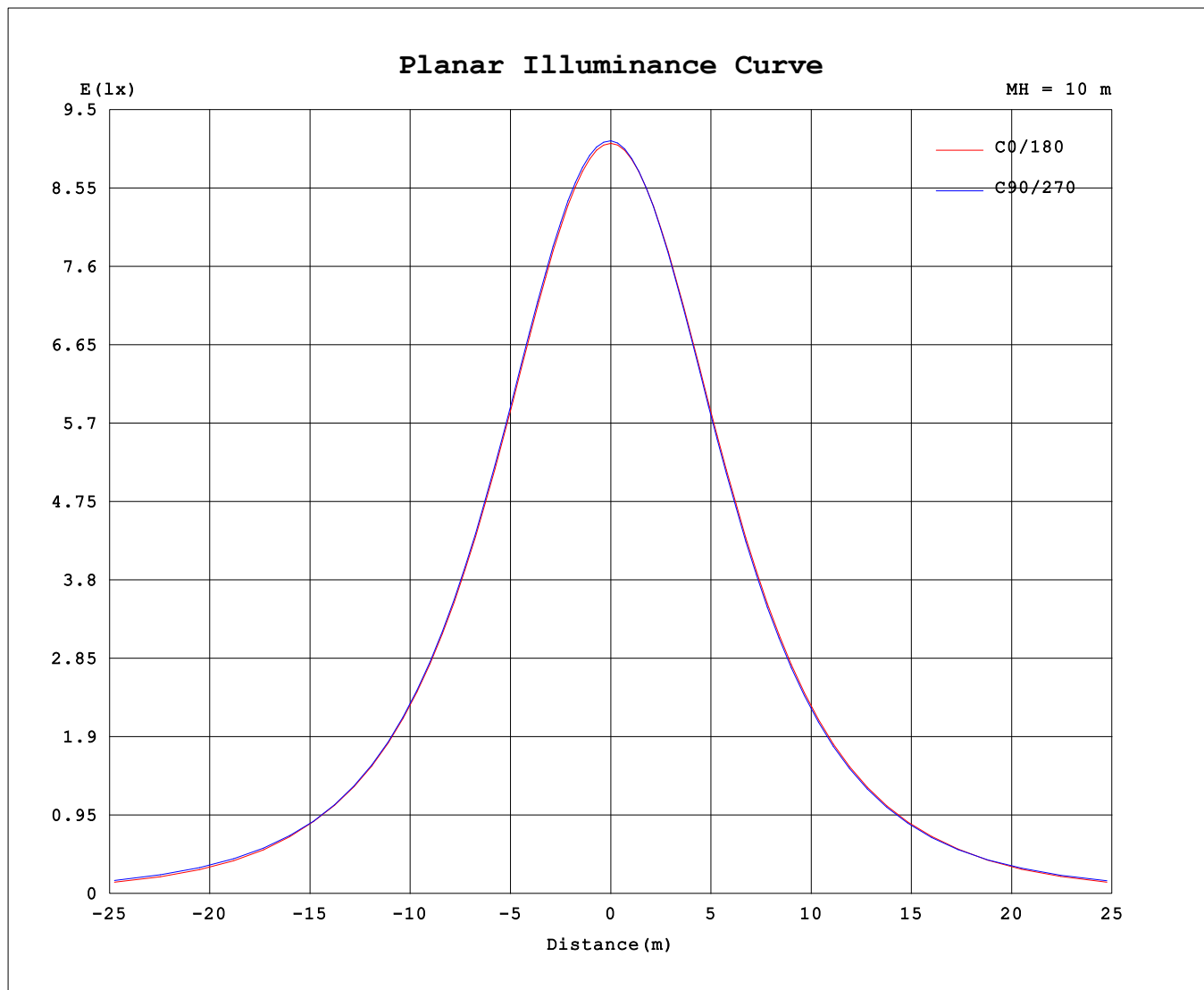
AvgL	cd/m2
L_0~180 (65) av	77877
L_0~180 (75) av	49680
L_0~180 (85) av	168
L_90~270 (65) av	83950
L_90~270 (75) av	71818
L_90~270 (85) av	43691
L_45 (65) av	84516
L_45 (75) av	72380
L_45 (85) av	45030

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-12

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: 2024-04-12

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:0.6638A P:15.930W PF:1.0000 Freq:49.99Hz Lamp Flux:17.0823x160 lm																	
NAME: 2835-160D-IP20									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.: 0.010*1						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	911	911	911	911	911	911	911	911	911	911	911	911	911	911	911	911			
5	910	910	910	911	911	911	910	910	909	909	909	908	908	908	909	909			
10	899	900	900	901	902	902	901	900	898	897	897	895	895	895	896	897			
15	887	888	889	890	890	890	889	888	886	884	883	882	881	881	883	885			
20	860	862	863	864	864	865	863	862	859	856	855	853	852	852	855	857			
25	837	840	840	842	842	843	841	839	836	833	831	828	828	827	831	834			
30	795	798	798	799	799	801	799	797	793	789	788	784	783	783	787	791			
35	761	764	764	766	766	767	765	763	759	755	753	749	749	748	753	757			
40	703	706	705	707	707	709	707	705	700	696	694	690	689	689	694	698			
45	659	662	661	663	662	665	662	661	656	652	650	645	644	643	649	653			
50	585	587	586	588	587	590	588	587	581	578	576	571	570	569	575	579			
55	530	532	531	532	532	535	533	532	527	523	522	517	516	515	521	525			
60	426	443	440	442	441	445	443	442	434	434	434	428	428	427	433	436			
65	346	378	375	377	377	381	379	378	353	371	371	366	366	364	370	372			
70	225	276	273	275	274	278	276	276	229	270	272	267	268	266	270	272			
75	145	207	203	205	204	208	207	207	151	202	204	201	201	199	203	203			
80	42.0	106	102	104	103	108	106	107	47.3	104	107	105	105	103	106	105			
85	0.75	50.6	47.5	47.8	47.7	51.1	51.0	51.2	2.03	49.6	52.3	50.6	51.2	49.4	51.2	50.3			
90	0.43	3.57	3.78	3.89	4.18	5.04	4.70	3.69	0.53	4.36	5.50	4.87	4.76	4.59	4.99	4.05			
95	0.50	0.58	1.41	1.83	2.13	2.19	1.32	0.68	0.59	0.67	1.84	2.19	2.13	2.13	1.73	0.63			
100	0.68	0.69	0.65	0.70	0.89	0.83	0.70	0.72	0.75	0.74	0.76	0.78	0.80	0.74	0.74	0.73			
105	0.82	0.81	0.78	0.77	0.76	0.81	0.80	0.84	0.89	0.85	0.87	0.83	0.84	0.81	0.86	0.85			
110	1.02	1.01	0.97	0.96	0.95	1.00	1.00	1.04	1.07	1.04	1.06	1.02	1.02	0.99	1.04	1.04			
115	1.17	1.16	1.11	1.10	1.09	1.13	1.15	1.17	1.21	1.17	1.20	1.15	1.15	1.12	1.17	1.17			
120	1.39	1.38	1.31	1.31	1.30	1.35	1.35	1.39	1.42	1.37	1.39	1.35	1.35	1.32	1.36	1.37			
125	1.53	1.51	1.45	1.44	1.43	1.49	1.48	1.54	1.56	1.51	1.52	1.50	1.48	1.45	1.49	1.51			
130	1.74	1.72	1.65	1.65	1.64	1.71	1.69	1.74	1.76	1.72	1.73	1.71	1.69	1.66	1.69	1.70			
135	1.87	1.85	1.77	1.78	1.77	1.85	1.82	1.87	1.89	1.85	1.86	1.84	1.82	1.78	1.81	1.83			
140	2.06	2.03	1.97	1.97	1.97	2.04	2.02	2.06	2.08	2.04	2.05	2.03	2.01	1.97	2.00	2.01			
145	2.18	2.15	2.09	2.09	2.10	2.17	2.14	2.18	2.20	2.16	2.17	2.16	2.14	2.09	2.12	2.13			
150	2.33	2.31	2.26	2.27	2.28	2.34	2.30	2.35	2.36	2.33	2.34	2.33	2.31	2.26	2.30	2.29			
155	2.43	2.41	2.37	2.38	2.40	2.45	2.41	2.45	2.46	2.42	2.45	2.44	2.43	2.37	2.40	2.39			
160	2.55	2.56	2.52	2.55	2.58	2.61	2.56	2.59	2.58	2.55	2.58	2.60	2.60	2.52	2.55	2.53			
165	2.64	2.66	2.62	2.66	2.69	2.71	2.65	2.67	2.67	2.64	2.67	2.69	2.71	2.62	2.64	2.63			
170	2.75	2.77	2.75	2.80	2.82	2.82	2.76	2.78	2.77	2.75	2.78	2.79	2.84	2.76	2.77	2.74			
175	2.80	2.83	2.82	2.86	2.88	2.87	2.81	2.83	2.83	2.80	2.84	2.84	2.90	2.83	2.83	2.80			
180	2.87	2.87	2.88	2.91	2.95	2.92	2.88	2.88	2.87	2.87	2.88	2.91	2.95	2.91	2.90	2.87			

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C Interval: 22.5DEG
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