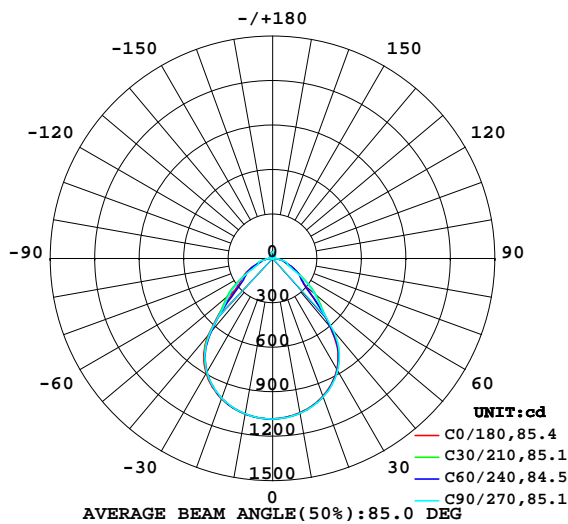


## LUMINAIRE PHOTOMETRIC TEST REPORT

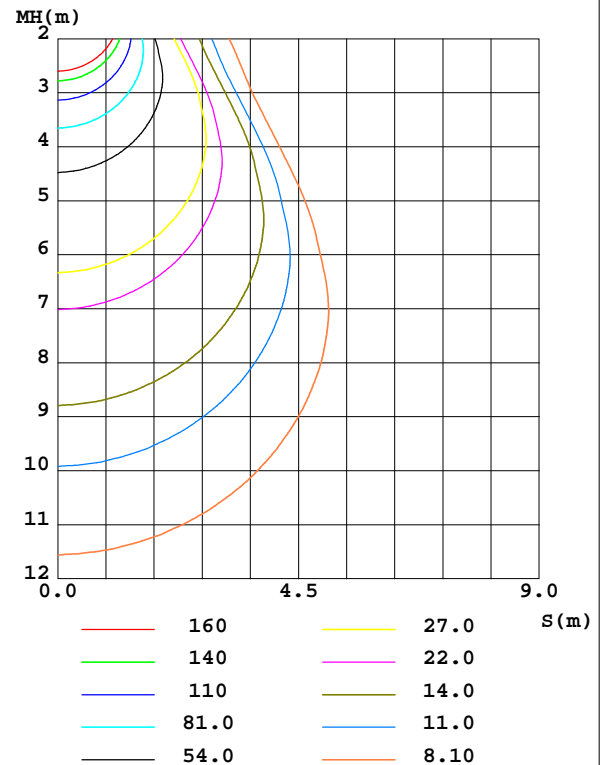
Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 98.12 lm/W
MODEL		Imax(cd)	1085	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.22	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2301.3	$\eta$ UP,DN(C0-180)	2.5,46.7	
NOMINAL FLUX(lm)	2301.3	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	2.5,48.3	
LAMPS INSIDE	1	$\eta$ up(%)	5.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	229.5	$\eta$ down(%)	95.0	CIBSE SHR MAX	1.25	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024 8.12

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1058	1060	1060	1061	1067	1066	1065	1063	0- 10	102.4	102.4	4.45,4.45
20	990.0	993.9	995.9	996.6	1010	1005	1004	1001	10- 20	292.4	394.8	17.2,17.2
30	865.6	873.0	875.2	876.1	897.5	888.3	887.6	884.3	20- 30	436.0	830.8	36.1,36.1
40	605.0	622.1	638.0	635.8	675.0	654.6	661.4	654.5	30- 40	487.6	1318	57.3,57.3
50	290.7	332.8	368.5	344.2	332.7	351.7	384.5	348.4	40- 50	362.9	1681	73.1,73.1
60	201.3	194.7	179.8	196.5	220.0	204.1	198.5	199.8	50- 60	239.1	1920	83.5,83.5
70	104.6	103.2	107.3	106.9	117.8	109.7	101.7	109.7	60- 70	145.5	2066	89.8,89.8
80	50.89	51.44	54.02	54.71	62.27	62.36	62.54	58.44	70- 80	89.30	2155	93.7,93.7
90	1.145	1.166	1.123	0.9470	3.361	1.552	1.428	1.347	80- 90	31.24	2186	95,95
100	5.033	4.763	4.687	4.577	3.899	4.342	4.693	4.526	90-100	2.641	2189	95.1,95.1
110	12.22	12.07	11.45	11.21	10.12	10.81	11.07	11.44	100-110	8.182	2197	95.5,95.5
120	19.43	19.42	19.00	18.87	17.74	18.45	18.64	19.14	110-120	15.05	2212	96.1,96.1
130	24.39	24.43	24.29	23.88	23.24	23.73	23.88	24.28	120-130	19.17	2232	97,97
140	28.80	28.91	28.85	28.68	28.20	28.66	28.72	29.00	130-140	20.47	2252	97.9,97.9
150	31.95	32.21	32.22	32.37	31.52	31.99	32.53	32.31	140-150	19.15	2271	98.7,98.7
160	34.11	34.41	34.35	34.82	33.77	34.31	34.73	34.57	150-160	15.42	2287	99.4,99.4
170	42.36	42.80	42.88	42.90	41.10	41.93	42.28	42.30	160-170	10.54	2297	99.8,99.8
180	45.51	45.80	46.17	46.39	45.46	45.79	46.20	46.37	170-180	4.200	2301	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 1520.7 lm

%lum = 66.1%

%lamp = 66.1%

Conical surface Flux(130deg): 2003 lm

%lum = 87.0%

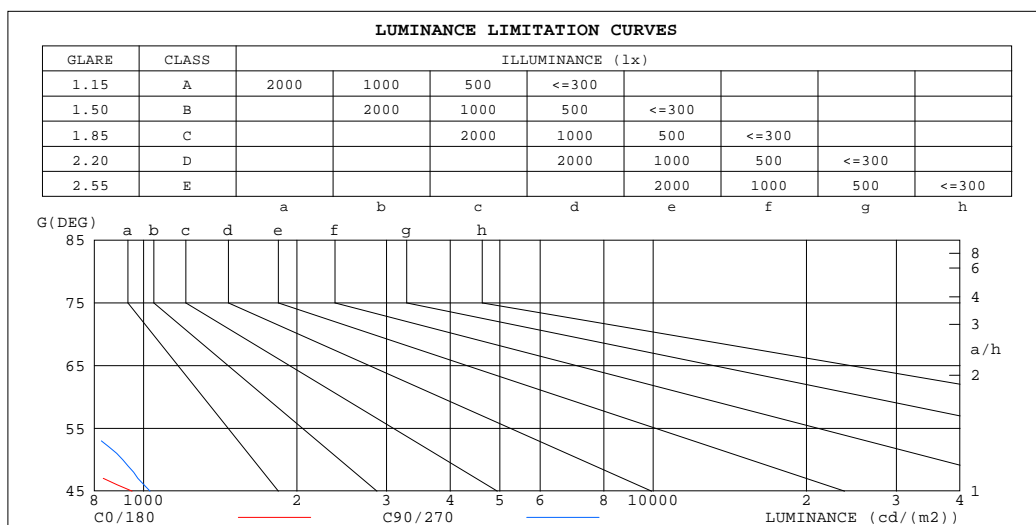
%lamp = 87.0%

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Mr.Ma  
Test Date: 2024 8.12

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:6.100m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



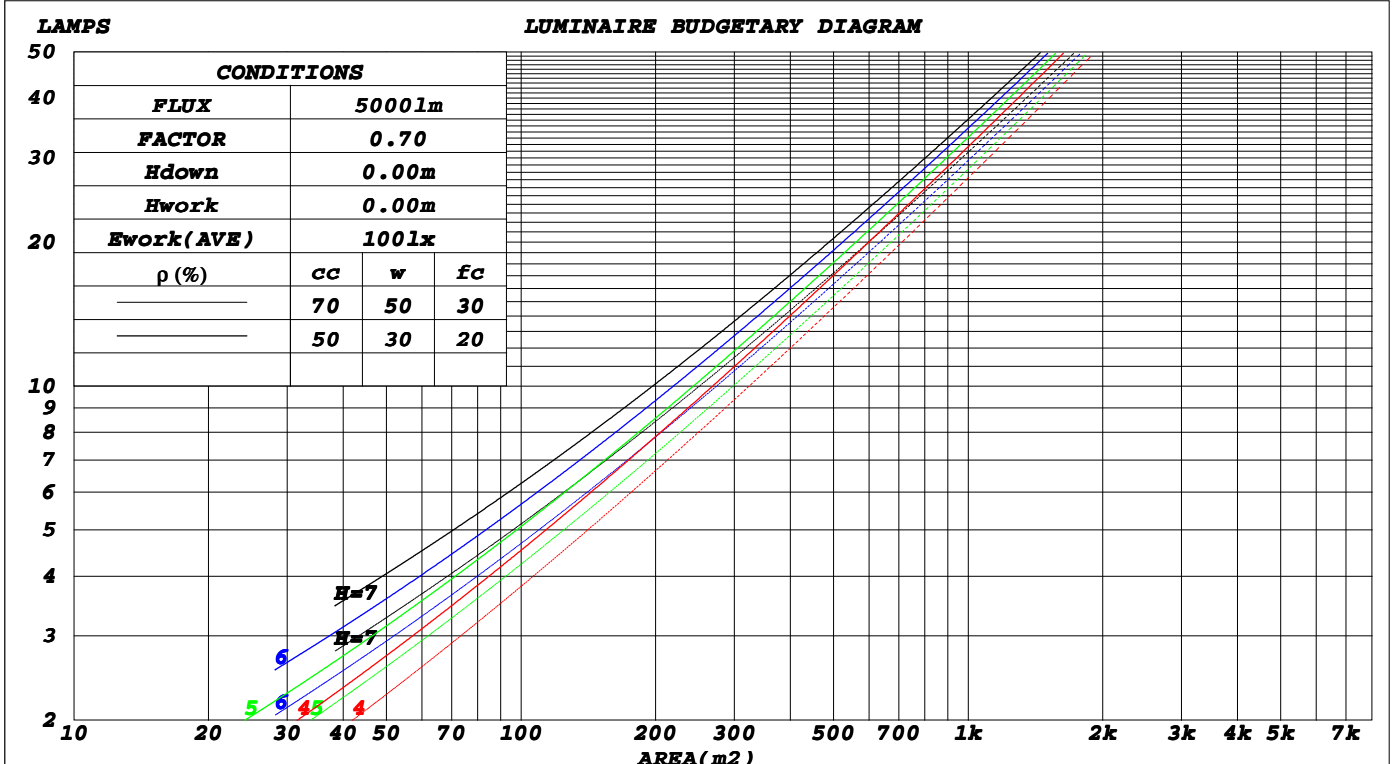
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024 8.12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio                      Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.08	1.08	1.08	1.03	1.03	1.03	.97	.97	.97	.95
1.0	1.05	1.01	.98	1.02	.99	.96	.97	.95	.92	.93	.90	.88	.88	.87	.85	.83
2.0	.94	.88	.83	.91	.86	.81	.87	.83	.79	.83	.80	.76	.80	.77	.74	.72
3.0	.84	.77	.71	.82	.75	.70	.78	.73	.68	.75	.70	.67	.72	.68	.65	.63
4.0	.76	.68	.62	.74	.67	.61	.71	.65	.60	.68	.63	.59	.66	.61	.57	.55
5.0	.68	.60	.55	.67	.60	.54	.65	.58	.53	.62	.56	.52	.60	.55	.51	.49
6.0	.62	.54	.49	.61	.54	.48	.59	.52	.47	.57	.51	.47	.55	.50	.46	.44
7.0	.57	.49	.44	.56	.49	.43	.54	.48	.43	.52	.46	.42	.51	.45	.41	.40
8.0	.53	.45	.39	.52	.44	.39	.50	.43	.39	.48	.42	.38	.47	.42	.38	.36
9.0	.49	.41	.36	.48	.41	.36	.46	.40	.35	.45	.39	.35	.44	.38	.34	.33
10.0	.45	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.41	.35	.32	.30



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024 8.12

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.264	.150	.048	.256	.146	.046	.240	.138	.044	.225	.130	.042	.212	.123	.040		
2.0	.250	.137	.042	.242	.133	.041	.228	.127	.039	.215	.121	.038	.204	.115	.036		
3.0	.233	.124	.037	.227	.121	.037	.214	.116	.035	.203	.111	.034	.192	.107	.033		
4.0	.218	.113	.033	.212	.111	.033	.201	.107	.032	.191	.102	.031	.181	.098	.030		
5.0	.204	.104	.030	.198	.102	.030	.188	.098	.029	.179	.095	.028	.171	.091	.027		
6.0	.191	.096	.027	.186	.094	.027	.177	.091	.026	.169	.088	.026	.161	.085	.025		
7.0	.179	.089	.025	.175	.087	.025	.167	.084	.024	.159	.082	.024	.152	.079	.023		
8.0	.169	.082	.023	.165	.081	.023	.158	.079	.022	.151	.076	.022	.144	.074	.022		
9.0	.159	.077	.021	.156	.076	.021	.149	.074	.021	.143	.072	.021	.137	.070	.020		
10.0	.151	.072	.020	.147	.071	.020	.141	.069	.020	.136	.067	.019	.130	.066	.019		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio                      Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.228	.228	.228	.195	.195	.195	.133	.133	.133	.077	.077	.077	.024	.024	.024	
1.0	.215	.195	.176	.184	.167	.152	.126	.115	.105	.073	.067	.061	.023	.021	.020	
2.0	.205	.171	.142	.176	.147	.122	.120	.102	.085	.069	.059	.050	.022	.019	.016	
3.0	.196	.153	.118	.168	.132	.103	.115	.092	.072	.067	.053	.042	.021	.017	.014	
4.0	.188	.139	.102	.161	.120	.089	.111	.084	.062	.064	.049	.037	.021	.016	.012	
5.0	.181	.129	.090	.155	.111	.079	.107	.078	.055	.062	.046	.033	.020	.015	.011	
6.0	.174	.120	.082	.149	.104	.071	.103	.073	.050	.060	.043	.030	.019	.014	.010	
7.0	.167	.113	.075	.144	.098	.066	.099	.069	.046	.058	.041	.028	.019	.013	.009	
8.0	.161	.107	.070	.139	.093	.061	.096	.065	.043	.056	.039	.026	.018	.013	.009	
9.0	.156	.102	.066	.134	.089	.058	.093	.062	.041	.054	.037	.025	.018	.012	.008	
10.0	.151	.098	.063	.130	.085	.055	.090	.060	.039	.053	.035	.023	.017	.012	.008	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:Mr.Ma  
 Test Date: 2024 8.12

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:6.100m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm											
NAME: LED346 (22W 3000K) Uplight on					TYPE: 调光双色暖白白色			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
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		7.7	9.0	8.0	9.2	9.5	7.5	8.8	7.8	9.1	9.4
3H		8.4	9.6	8.8	9.9	10.3	8.3	9.5	8.7	9.8	10.1
4H		8.9	10.0	9.2	10.3	10.6	8.8	9.9	9.2	10.3	10.6
6H		9.2	10.3	9.6	10.6	11.0	9.2	10.3	9.6	10.6	11.0
8H		9.3	10.3	9.7	10.7	11.1	9.4	10.4	9.8	10.8	11.1
12H		9.4	10.4	9.8	10.8	11.1	9.5	10.5	9.9	10.9	11.3
4H 2H		7.9	9.0	8.3	9.3	9.7	7.8	8.9	8.2	9.3	9.6
3H		8.9	9.9	9.3	10.2	10.6	8.8	9.8	9.2	10.1	10.5
4H		9.5	10.4	9.9	10.8	11.2	9.5	10.3	9.9	10.8	11.2
6H		10.0	10.8	10.5	11.2	11.7	10.0	10.8	10.5	11.2	11.7
8H		10.2	10.9	10.7	11.3	11.8	10.3	11.0	10.8	11.4	11.9
12H		10.3	11.0	10.8	11.4	11.9	10.5	11.1	11.0	11.6	12.1
8H 4H		9.7	10.4	10.2	10.9	11.3	9.7	10.4	10.2	10.8	11.3
6H		10.3	10.9	10.9	11.4	11.9	10.4	11.0	10.9	11.5	12.0
8H		10.6	11.1	11.1	11.6	12.2	10.7	11.2	11.3	11.8	12.3
12H		10.8	11.3	11.4	11.8	12.4	11.0	11.5	11.6	12.0	12.6
12H 4H		9.7	10.3	10.2	10.8	11.3	9.7	10.3	10.2	10.8	11.3
6H		10.4	10.9	10.9	11.4	12.0	10.5	11.0	11.0	11.5	12.0
8H		10.7	11.2	11.3	11.7	12.3	10.8	11.3	11.4	11.8	12.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.4 / - 0.5					+ 0.4 / - 0.4				
1.5H		+ 0.4 / - 0.6					+ 0.5 / - 0.3				
2.0H		+ 0.6 / - 0.8					+ 0.6 / - 0.6				

CIE Pub.117, 2301 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.9$ )  
Area: 0.63 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Mr.Ma  
Test Date: 2024 8.12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:6.100m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

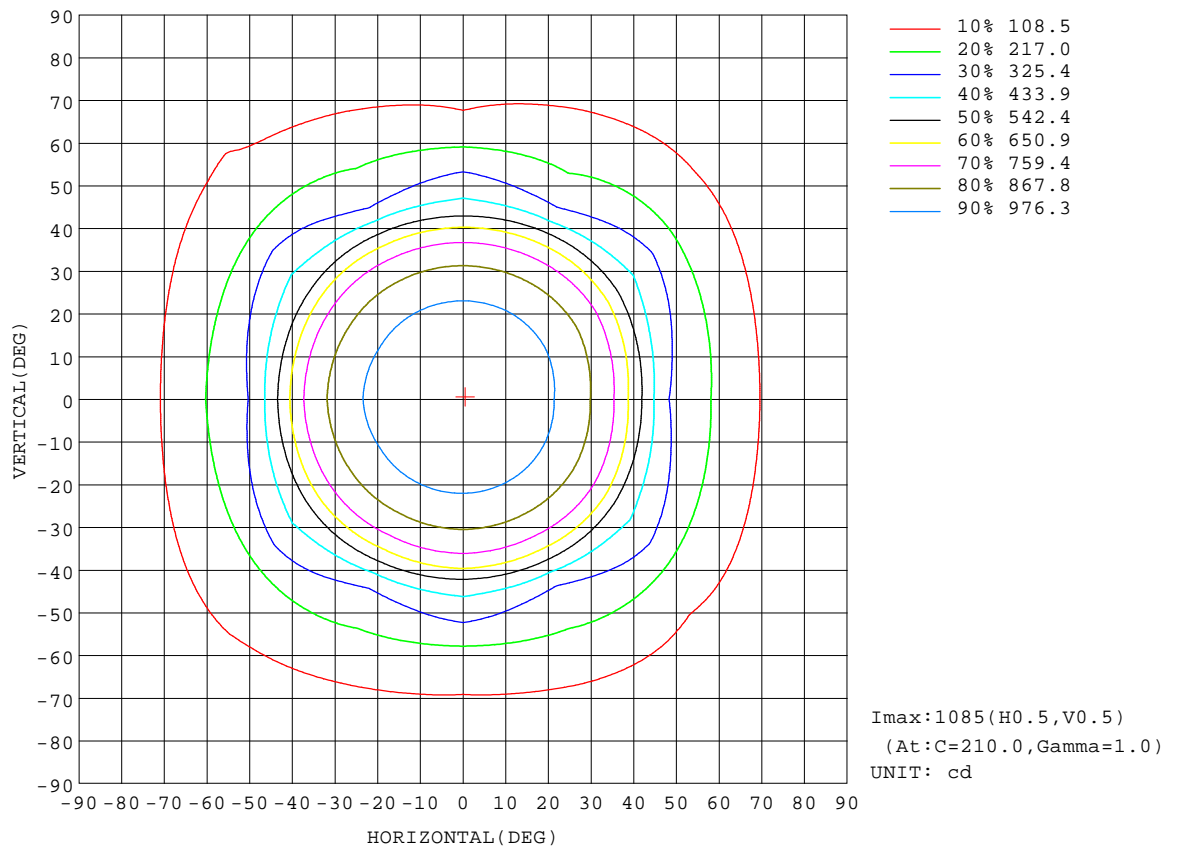
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	64	55	49	63	54	49	43
0.80	75	65	58	73	64	58	71	63	58	51
1.00	82	73	67	81	72	66	78	72	65	59
1.25	88	79	74	87	79	73	84	77	72	65
1.50	93	84	79	91	83	78	87	81	76	69
2.00	98	91	86	96	90	85	92	87	83	75
2.50	101	95	90	99	93	89	95	90	86	77
3.00	104	98	94	102	96	92	97	93	89	80
4.00	107	103	99	105	100	97	100	96	93	84
5.00	109	105	102	106	103	100	101	98	96	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3℃**  
**Operators: Mr.Ma**  
**Test Date: 2024 8.12**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity: 65.0%**  
**Test Distance: 6.100m [K=1.0000]**  
**Remarks:**

## ISOCANDELA DIAGRAM

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Mr.Ma  
Test Date: 2024 8.12

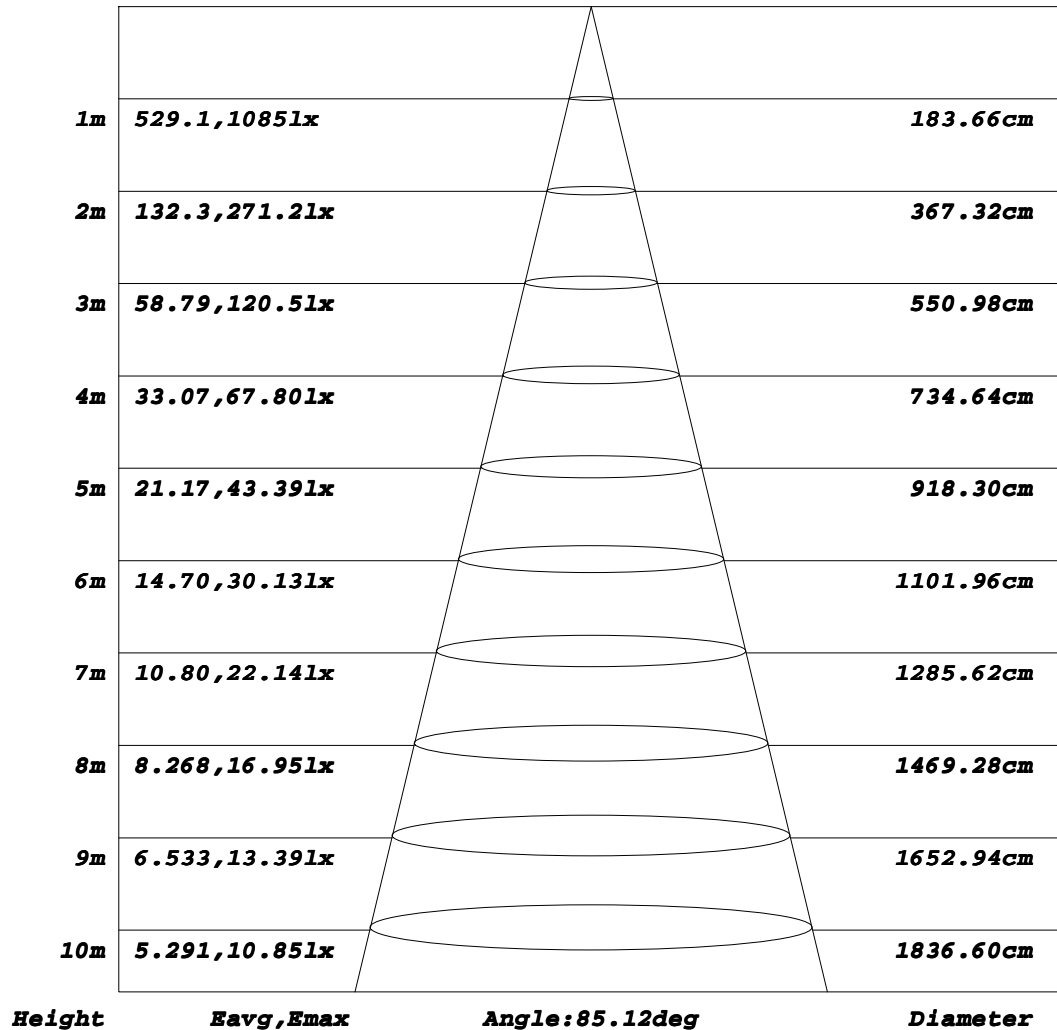
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:6.100m [K=1.0000]  
Remarks:



AAI Figure

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:1446 lm



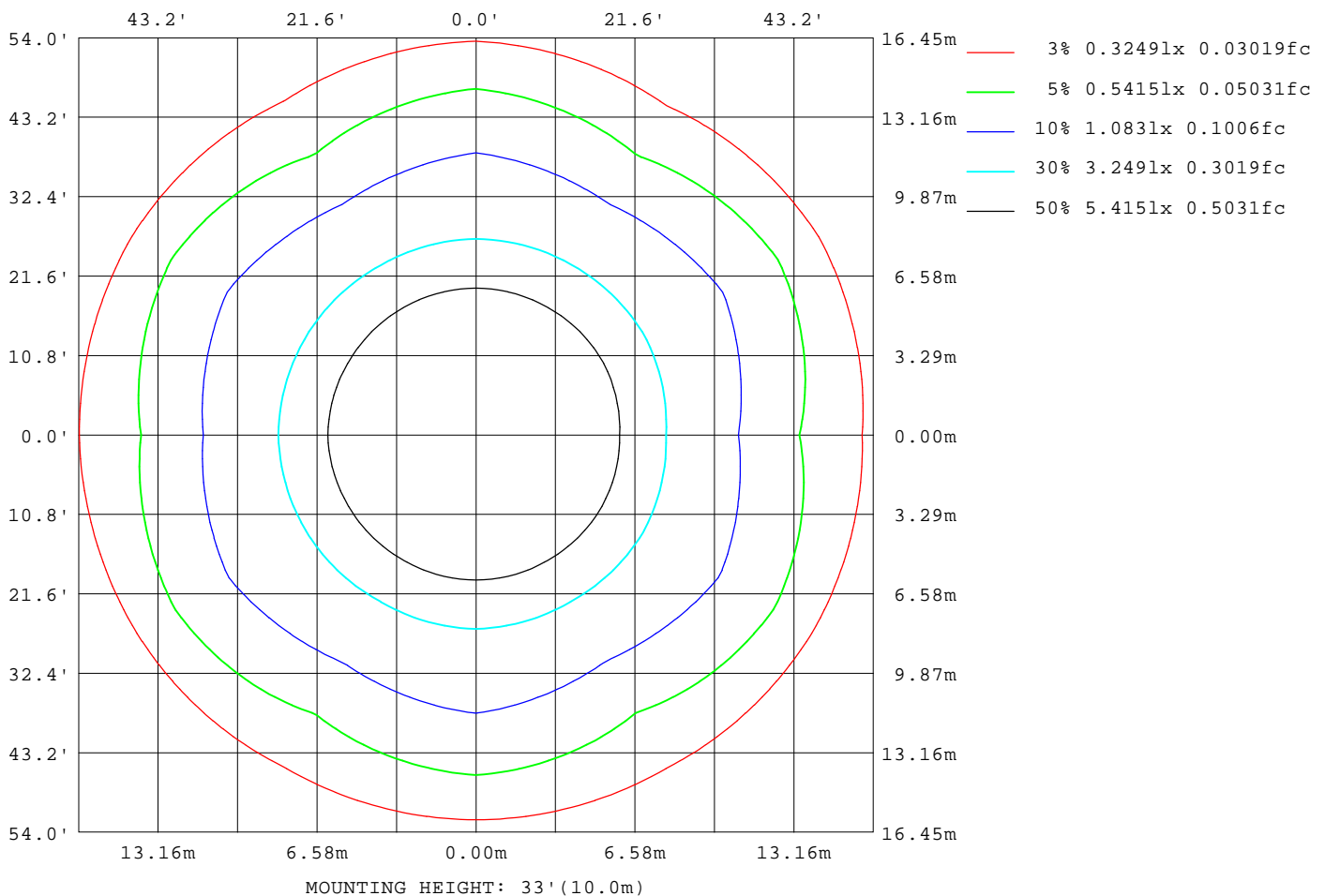
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024 8.12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024 8.12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm		
NAME: LED346 (22W 3000K) Uplight on	TYPE: 调光双色暖白白色	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

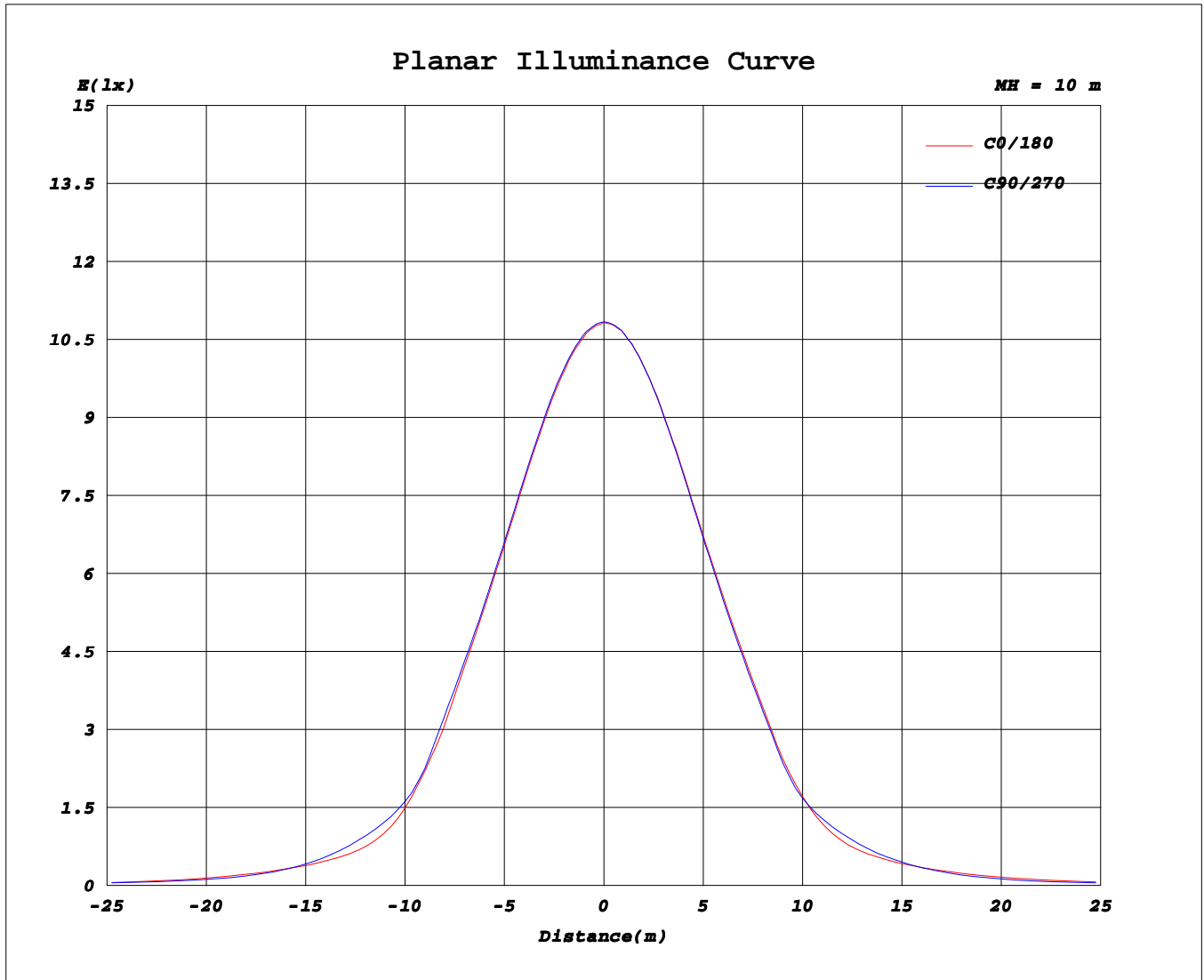
AvgL	cd/m2
L_0~180(65)av	604
L_0~180(75)av	503
L_0~180(85)av	526
L_90~270(65)av	479
L_90~270(75)av	568
L_90~270(85)av	568
L_45(65)av	541
L_45(75)av	525
L_45(85)av	541

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Mr.Ma  
Test Date: 2024 8.12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:6.100m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024 8.12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.20V I:0.1043A P:23.455W PF:0.9767 Freq:50.00Hz Lamp Flux:2301.3x1 lm																		
NAME: LED346 (22W 3000K) Uplight on									TYPE: 调光双色暖白白色					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.:									SUR.:					Shielding Angle:				

Table--1

UNIT: cd

C(°) \ γ (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084						
5	1075	1077	1076	1077	1077	1078	1081	1080	1080	1079	1079	1078						
10	1058	1060	1060	1060	1061	1062	1067	1067	1065	1065	1065	1062						
15	1029	1032	1033	1034	1035	1035	1044	1041	1042	1041	1040	1037						
20	990	993	994	996	996	997	1010	1004	1006	1004	1003	999						
25	936	942	941	944	943	947	962	955	955	954	953	949						
30	866	875	872	875	872	880	897	889	887	888	886	883						
35	769	784	777	785	778	792	812	801	797	799	794	795						
40	605	631	613	638	618	653	675	663	646	661	654	655						
45	423	469	418	458	430	487	486	489	459	476	454	490						
50	291	383	283	369	291	397	333	405	299	385	301	396						
55	238	288	233	271	234	296	263	310	237	290	232	300						
60	201	189	200	180	198	195	220	205	203	199	196	204						
65	152	126	151	126	151	132	169	131	163	129	162	137						
70	105	103	104	107	104	110	118	111	109	102	113	107						
75	79.7	86.1	80.3	89.8	79.5	93.8	84.4	97.6	80.4	95.4	77.8	91.5						
80	50.9	49.5	53.4	54.0	52.7	56.7	62.3	63.6	61.2	62.5	60.0	56.9						
85	23.0	26.1	26.3	27.4	24.6	30.9	34.7	34.8	32.3	35.0	31.9	31.1						
90	1.14	1.15	1.18	1.12	1.00	0.90	3.36	1.48	1.62	1.43	1.45	1.25						
95	2.49	2.35	2.40	2.40	2.27	2.06	1.73	1.96	2.07	2.31	2.19	2.32						
100	5.03	4.74	4.79	4.69	4.74	4.41	3.90	4.25	4.44	4.69	4.41	4.65						
105	8.35	8.20	8.09	7.71	7.84	7.29	6.78	7.26	7.49	7.60	7.68	7.80						
110	12.2	12.2	11.9	11.4	11.4	11.0	10.1	10.7	10.9	11.1	11.3	11.5						
115	16.1	16.3	15.9	15.5	15.3	15.1	13.9	14.6	14.7	14.9	15.2	15.6						
120	19.4	19.6	19.2	19.0	19.0	18.8	17.7	18.4	18.5	18.6	18.9	19.3						
125	21.7	21.8	21.7	21.6	21.6	21.0	20.5	21.0	21.1	21.2	21.5	21.8						
130	24.4	24.5	24.4	24.3	24.1	23.7	23.2	23.6	23.9	23.9	24.2	24.3						
135	26.8	26.9	26.9	26.8	26.6	26.2	25.9	26.2	26.6	26.4	26.8	26.8						
140	28.8	28.9	28.9	28.9	29.0	28.4	28.2	28.5	28.8	28.7	29.0	29.0						
145	30.5	30.6	30.7	30.6	31.0	30.3	30.0	30.4	30.6	30.7	30.8	30.9						
150	31.9	32.1	32.3	32.2	32.6	32.1	31.5	31.9	32.1	32.5	32.3	32.3						
155	33.2	33.4	33.5	33.4	33.9	33.7	32.8	33.2	33.4	33.7	33.6	33.6						
160	34.1	34.4	34.4	34.4	34.9	34.8	33.8	34.2	34.4	34.7	34.5	34.6						
165	37.5	37.6	37.7	37.7	37.9	37.5	35.4	36.1	36.1	36.7	36.3	36.9						
170	42.4	42.7	42.9	42.9	42.9	42.9	41.1	41.9	41.9	42.3	42.1	42.5						
175	44.6	44.9	45.0	45.1	45.3	45.3	43.9	44.3	44.5	44.7	44.8	45.0						
180	45.5	45.9	45.7	46.2	46.4	46.4	45.5	45.9	45.7	46.2	46.4	46.4						

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C Interval: 30.0DEG

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