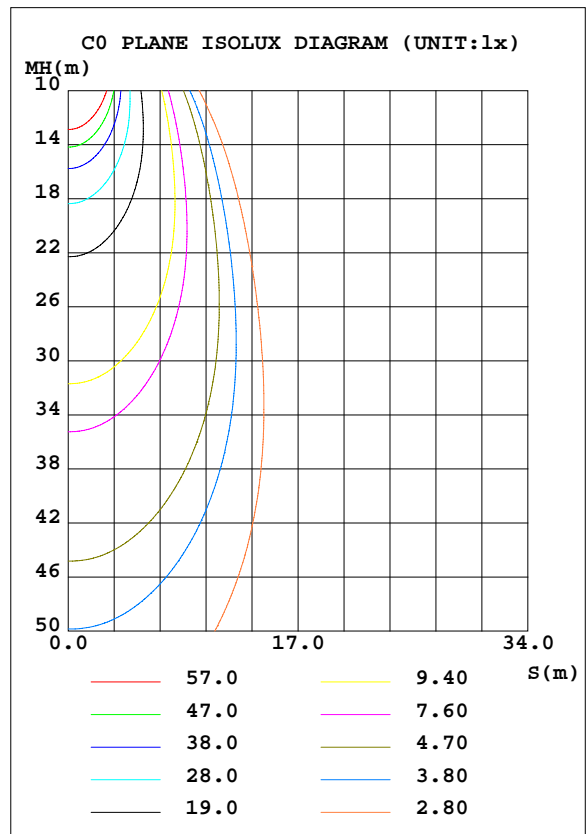
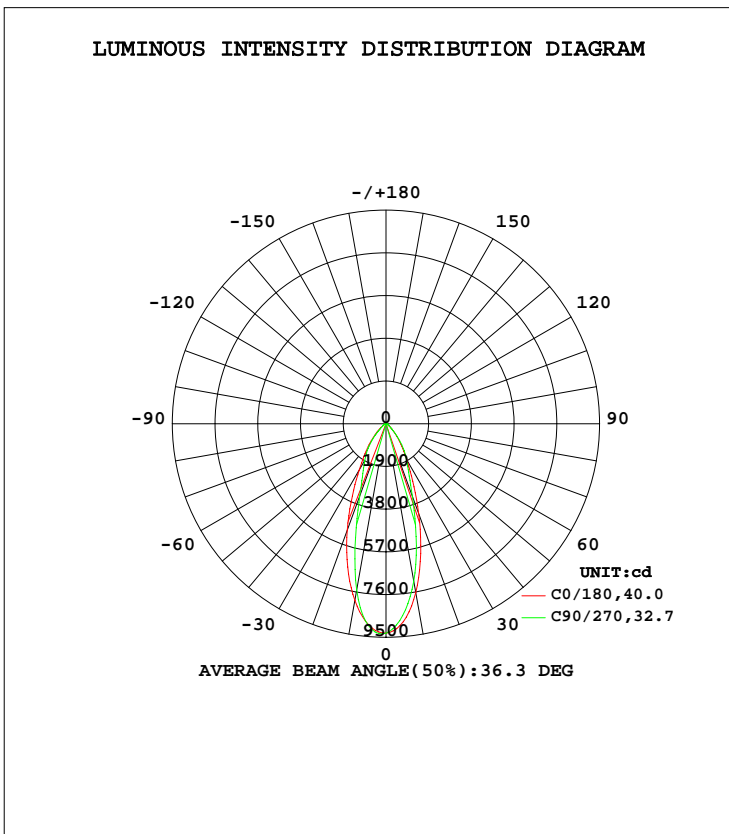


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 24.73 lm/W			
MODEL	CLF Ledbar Pro	I <sub>max</sub> (cd)	9349	S/MH(C0/180)	0.61
NOMINAL POWER(W)	220	LOR(%)	100.0	S/MH(C90/270)	0.54
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5321.4	η UP, DN(C0-180)	0.0,51.3
NOMINAL FLUX(lm)	5321.44	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,48.6
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	99.9	CIBSE SHR MAX	0.60



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:TIM  
 Test Date:2018-06-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.6%  
 Test Distance:2.536m [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	7980	7894	7510	7560	7624	7233	7121	7527	0- 10	803.0	803.0	15.1,15.1
20	5041	4218	3418	3698	4260	3760	3435	4253	10- 20	1580	2383	44.8,44.8
30	2400	2133	1893	1843	1867	1803	1815	2114	20- 30	1287	3670	69,69
40	1093	1118	986.2	879.4	808.1	797.5	869.2	1086	30- 40	892.9	4563	85.7,85.7
50	387.8	366.6	311.8	282.8	277.8	264.0	282.6	351.2	40- 50	446.2	5009	94.1,94.1
60	145.4	139.8	125.6	114.7	113.0	112.1	119.7	137.0	50- 60	180.4	5189	97.5,97.5
70	66.22	63.52	51.94	52.29	51.97	52.16	51.37	63.25	60- 70	86.02	5275	99.1,99.1
80	23.40	18.66	10.89	13.01	16.32	13.44	11.55	19.17	70- 80	36.81	5312	99.8,99.8
90	1.063	0.1778	0.0289	0.0327	0.0193	0.0175	0.0160	0.2460	80- 90	5.622	5318	99.9,99.9
100	0.0369	0.0372	0.0394	0.0430	0.0202	0.0221	0.0215	0.0200	90-100	0.0381	5318	99.9,99.9
110	0.0615	0.0621	0.0688	0.0807	0.0425	0.0457	0.0419	0.0372	100-110	0.0423	5318	99.9,99.9
120	0.1423	0.1393	0.1656	0.1856	0.1743	0.1922	0.1819	0.1550	110-120	0.0997	5318	99.9,99.9
130	0.3366	0.3342	0.3983	0.4302	0.5046	0.5421	0.5286	0.4525	120-130	0.2526	5318	99.9,99.9
140	0.6915	0.7414	0.8897	0.8870	1.204	1.426	1.393	1.183	130-140	0.5666	5319	99.9,99.9
150	1.083	1.262	1.461	1.443	1.823	2.398	2.411	2.129	140-150	0.8657	5320	100,100
160	1.594	1.656	1.883	1.870	2.392	2.833	3.136	2.679	150-160	0.9297	5321	100,100
170	1.921	1.888	1.902	2.020	2.546	2.863	2.962	2.711	160-170	0.6640	5321	100,100
180	2.273	2.298	2.320	2.321	2.296	2.319	2.340	2.340	170-180	0.2209	5321	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4837.7 lm

%lum = 90.9%  
%lamp = 90.9%

Conical surface Flux(120deg): 5189.3 lm

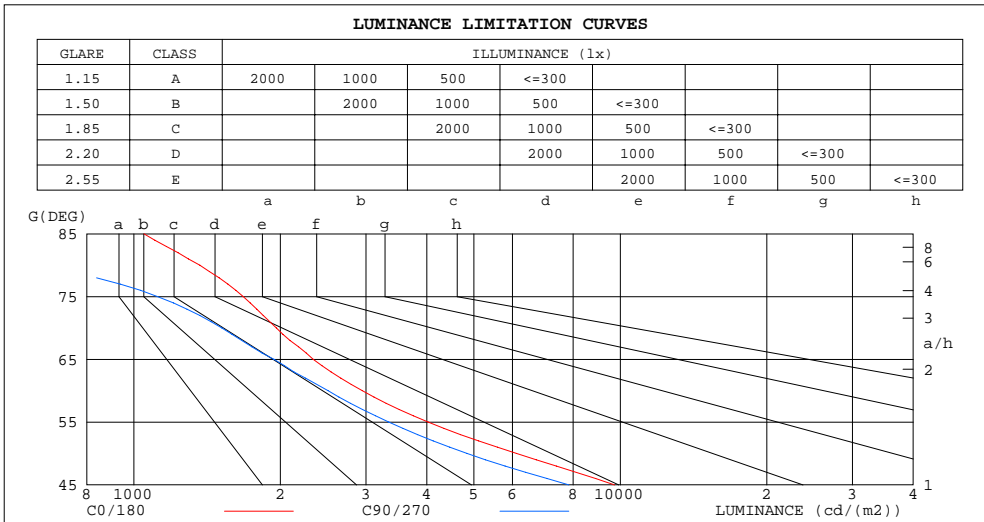
%lum = 97.5%  
%lamp = 97.5%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2DEG  
Operators:TIM  
Test Date:2018-06-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity:56.6%  
Test Distance:2.536m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1049	73
80	1366	626
75	1677	1118
70	1963	1515
65	2337	1941
60	2947	2507
55	4027	3341
50	6116	4841
45	9730	7843

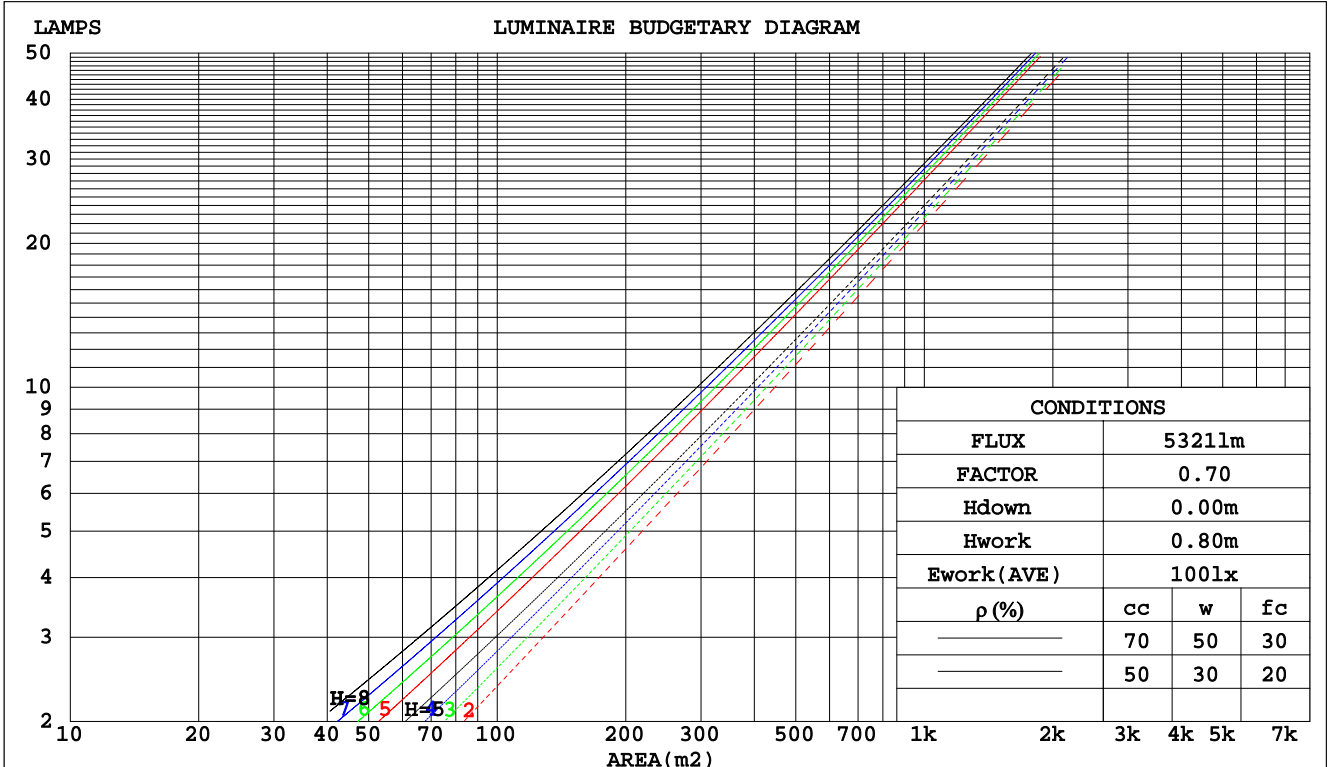
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: TIM  
 Test Date: 2018-06-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 56.6%  
 Test Distance: 2.536m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	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	1.19	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	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.94	.97	.94	.92	.94	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.71	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58
9.0	.67	.61	.57	.66	.60	.57	.65	.60	.56	.64	.60	.56	.63	.59	.56	.55
10.0	.63	.58	.54	.63	.57	.54	.62	.57	.54	.61	.57	.53	.61	.56	.53	.52



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: TIM  
 Test Date: 2018-06-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 56.6%  
 Test Distance: 2.536m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	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	.184	.105	.033	.177	.101	.032	.165	.094	.030	.153	.088	.028	.142	.082	.027	
2.0	.176	.097	.030	.170	.094	.029	.160	.089	.028	.150	.084	.026	.141	.080	.025	
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.158	.082	.024	.154	.081	.024	.146	.077	.023	.139	.074	.022	.132	.072	.022	
5.0	.150	.076	.022	.146	.075	.022	.139	.073	.021	.133	.070	.021	.127	.068	.020	
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.127	.066	.019	.122	.064	.019	
7.0	.135	.067	.019	.132	.066	.019	.127	.064	.019	.122	.063	.018	.117	.061	.018	
8.0	.129	.063	.018	.126	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017	
9.0	.123	.059	.017	.121	.059	.017	.116	.058	.016	.112	.056	.016	.109	.055	.016	
10.0	.117	.056	.016	.115	.056	.016	.112	.055	.015	.108	.054	.015	.105	.053	.015	

$\rho_{cc}$	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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.158	.145	.147	.135	.125	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.133	.113	.135	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.116	.086	.063	.080	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.088	.060	.108	.076	.052	.075	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.119	.079	.050	.102	.068	.044	.070	.048	.031	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.062	.037	.067	.043	.026	.039	.025	.016	.012	.008	.005	
8.0	.106	.065	.036	.091	.056	.032	.063	.039	.023	.037	.023	.013	.012	.008	.004	
9.0	.101	.060	.032	.087	.052	.028	.060	.036	.020	.035	.021	.012	.011	.007	.004	
10.0	.096	.055	.028	.083	.048	.024	.057	.034	.017	.033	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:TIM  
 Test Date:2018-06-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.6%  
 Test Distance:2.536m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm										
NAME: CLF Ledbar Pro					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:ED180604011L		
MFR.: CLF LIGHTING B.V					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	16.2	17.1	16.4	17.3	17.5	15.5	16.5	15.7	16.6	16.8
3H	16.3	17.1	16.5	17.3	17.6	15.6	16.5	15.8	16.7	16.9
4H	16.3	17.1	16.6	17.4	17.6	15.6	16.4	15.8	16.6	16.8
6H	16.3	17.1	16.6	17.3	17.6	15.5	16.3	15.8	16.5	16.8
8H	16.3	17.0	16.6	17.3	17.6	15.5	16.2	15.8	16.5	16.7
12H	16.2	17.0	16.6	17.2	17.5	15.4	16.1	15.7	16.4	16.7
4H 2H	16.1	16.9	16.4	17.1	17.4	15.5	16.3	15.7	16.5	16.8
3H	16.3	17.0	16.6	17.3	17.5	15.6	16.3	15.9	16.6	16.9
4H	16.3	17.0	16.7	17.3	17.6	15.6	16.3	16.0	16.6	16.9
6H	16.4	17.0	16.8	17.3	17.7	15.6	16.2	16.0	16.5	16.9
8H	16.4	16.9	16.8	17.3	17.7	15.6	16.1	16.0	16.5	16.8
12H	16.4	16.9	16.8	17.2	17.6	15.5	16.0	15.9	16.4	16.8
8H 4H	16.3	16.8	16.7	17.2	17.5	15.6	16.1	16.0	16.5	16.8
6H	16.4	16.8	16.8	17.2	17.6	15.6	16.0	16.0	16.4	16.8
8H	16.4	16.8	16.8	17.2	17.6	15.5	15.9	16.0	16.3	16.8
12H	16.4	16.7	16.9	17.2	17.6	15.5	15.8	16.0	16.3	16.7
12H 4H	16.2	16.7	16.6	17.1	17.5	15.5	16.0	16.0	16.4	16.8
6H	16.3	16.7	16.8	17.1	17.6	15.5	15.9	16.0	16.3	16.8
8H	16.3	16.7	16.8	17.1	17.6	15.5	15.8	16.0	16.3	16.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.6 / - 2.9					+ 1.8 / - 3.5				
1.5H	+ 2.5 / - 2.5					+ 2.7 / - 2.6				
2.0H	+ 3.5 / - 2.3					+ 3.3 / - 2.4				

CIE Pub.117, 5321 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.8)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2DEG  
Operators:TIM  
Test Date:2018-06-06

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity:56.6%  
Test Distance:2.536m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	SUR.:	Shielding Angle:

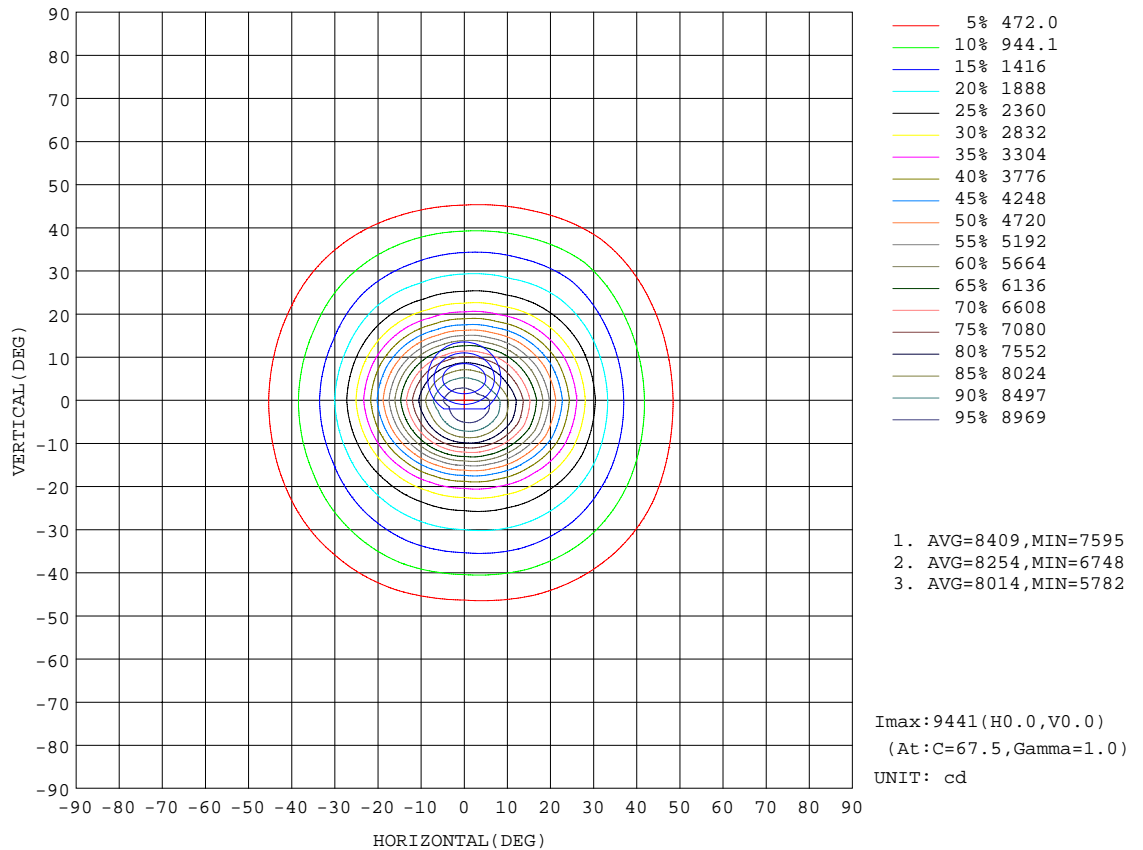
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	83	75	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	85	95	89	85	93	89	85	80
1.25	100	95	91	99	94	90	97	93	89	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	97
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:25.2DEG  
 Operators:TIM  
 Test Date:2018-06-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.6%  
 Test Distance:2.536m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	SUR.:	Shielding Angle:



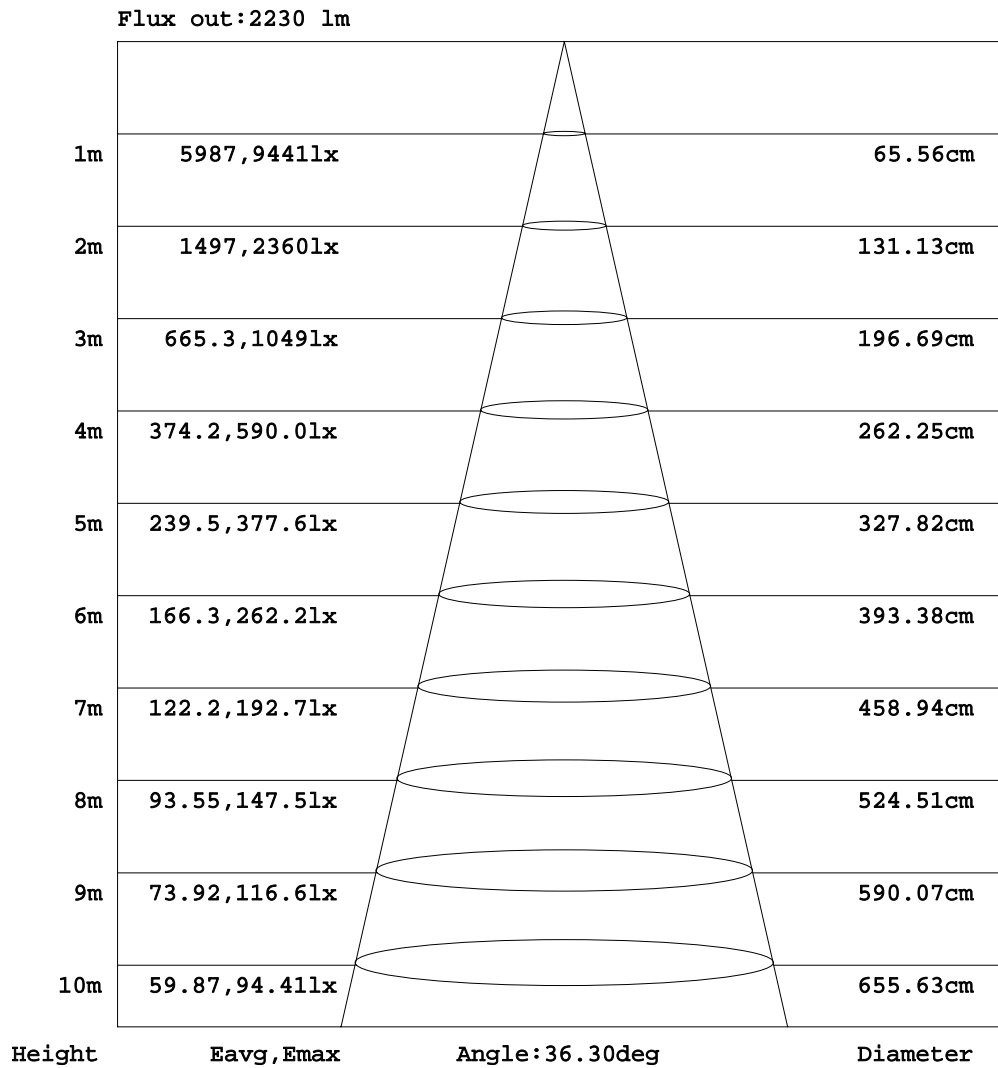
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2DEG  
Operators:TIM  
Test Date:2018-06-06

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity:56.6%  
Test Distance:2.536m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	SUR.:	Shielding Angle:



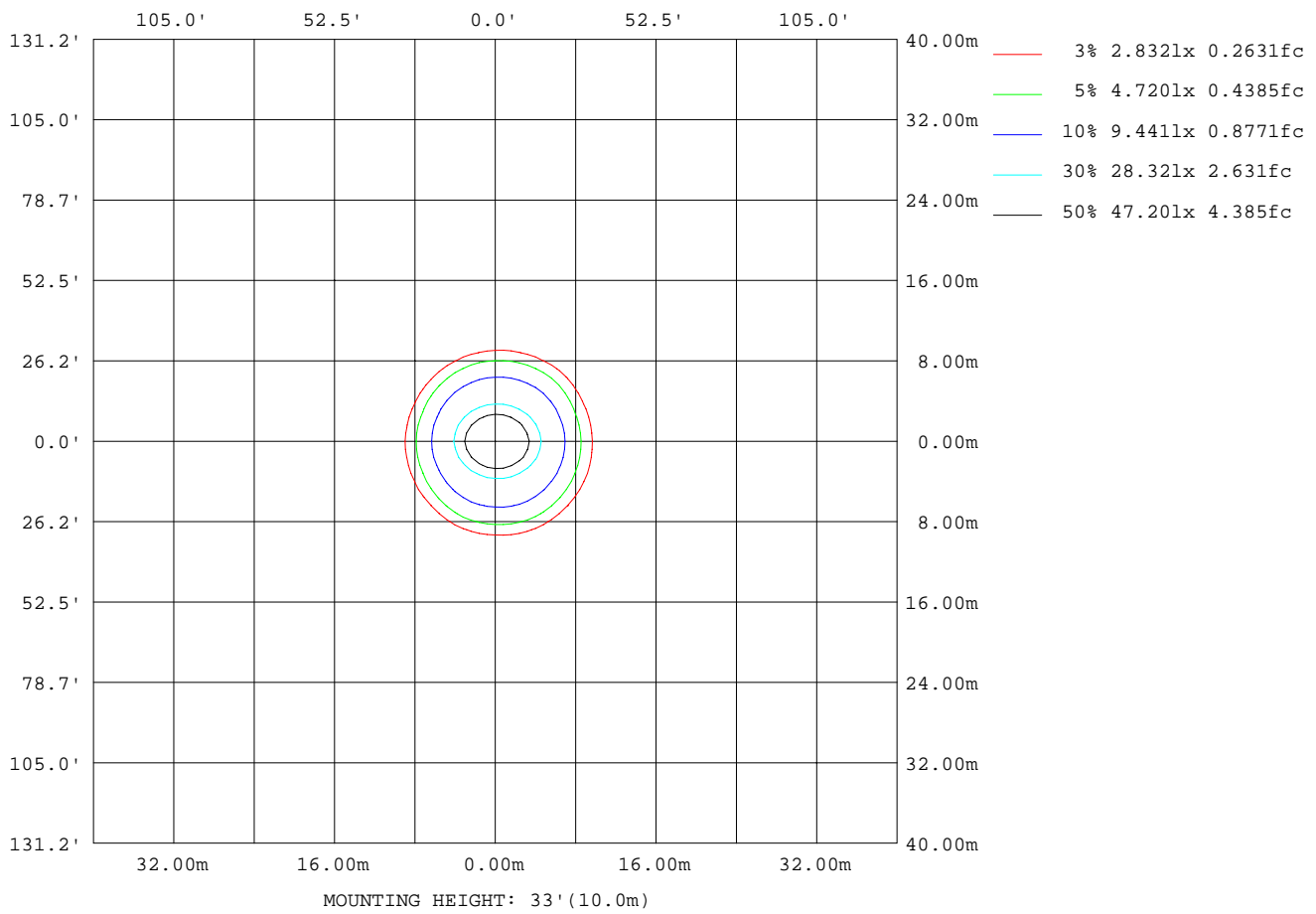
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2DEG  
Operators:TIM  
Test Date:2018-06-06

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity:56.6%  
Test Distance:2.536m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: TIM  
 Test Date: 2018-06-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 56.6%  
 Test Distance: 2.536m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	SUR.:	Shielding Angle:

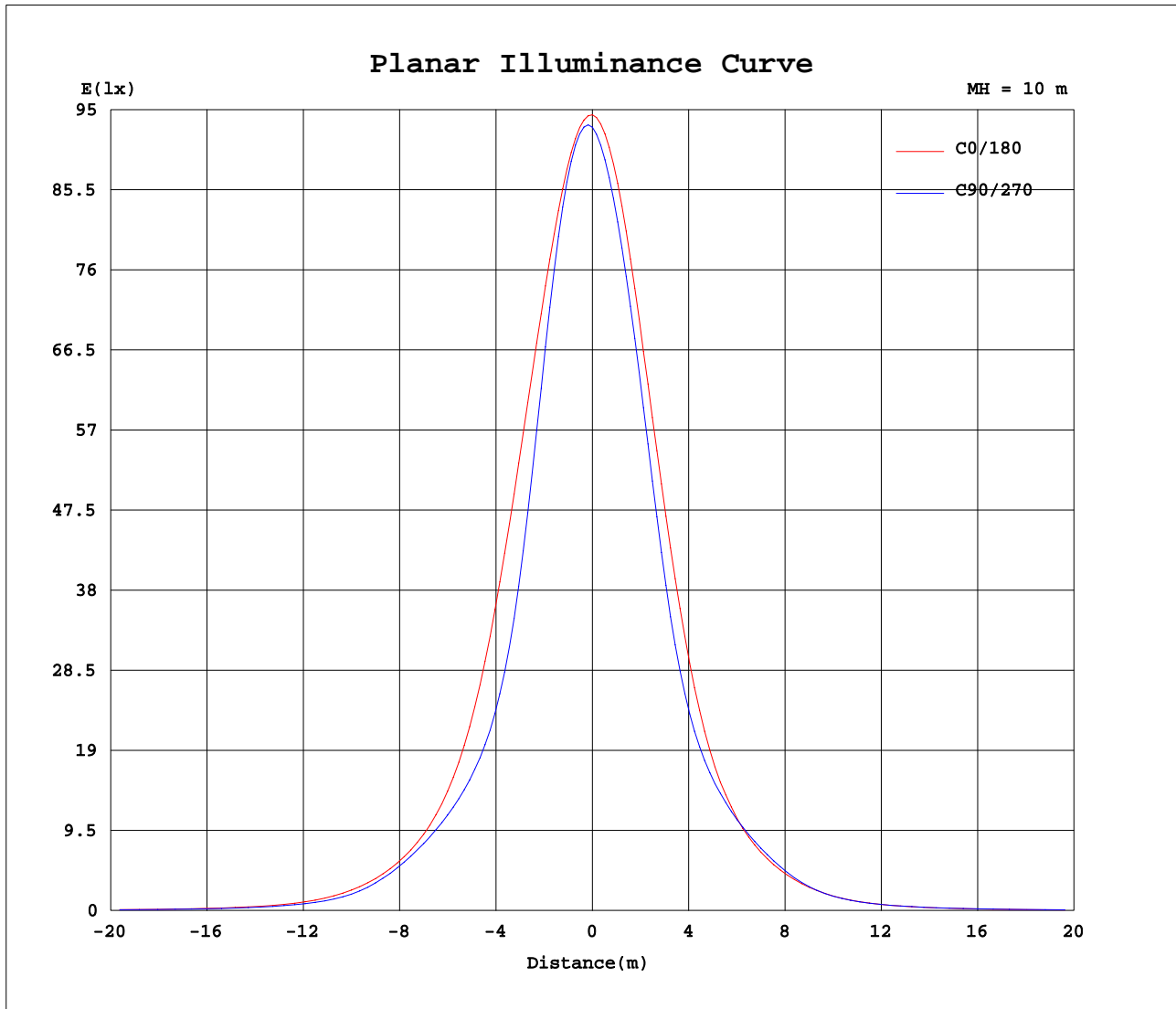
AvgL	cd/m2
L_0~180(65)av	2061
L_0~180(75)av	1451
L_0~180(85)av	795
L_90~270(65)av	1909
L_90~270(75)av	1127
L_90~270(85)av	90
L_45(65)av	2017
L_45(75)av	1369
L_45(85)av	324

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:TIM  
 Test Date:2018-06-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.6%  
 Test Distance:2.536m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: TIM  
 Test Date: 2018-06-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 56.6%  
 Test Distance: 2.536m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.03V I:1.0149A P:215.20W PF:0.9218 Freq:50.00Hz Lamp Flux:5321.44x1 lm		
NAME: CLF Ledbar Pro	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180604011L
MFR.: CLF LIGHTING B.V	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	9312	9312	9312	9312	9312	9312	9312	9312	9312	9312	9312	9312	9312	9312	9312	9312			
5	8972	9066	9070	9062	9009	8990	8941	8906	8837	8710	8623	8546	8563	8611	8731	8859			
10	7980	8054	7894	7706	7510	7511	7560	7655	7624	7414	7233	7084	7121	7263	7527	7798			
15	6595	6548	6080	5584	5244	5306	5553	5872	5972	5739	5464	5189	5196	5453	5939	6372			
20	5041	4859	4218	3698	3418	3459	3698	4074	4260	4062	3760	3456	3435	3691	4253	4803			
25	3551	3353	2890	2601	2443	2437	2516	2696	2820	2702	2534	2380	2398	2550	2924	3366			
30	2400	2324	2133	2007	1893	1870	1843	1840	1867	1798	1803	1768	1815	1905	2114	2322			
35	1628	1641	1610	1550	1452	1420	1341	1264	1243	1206	1266	1290	1349	1434	1578	1616			
40	1093	1112	1118	1082	986	961	879	829	808	779	797	832	869	957	1086	1078			
45	679	692	662	631	556	547	501	491	483	454	453	464	486	543	636	653			
50	388	394	367	351	312	305	283	280	278	262	264	271	283	309	351	370			
55	228	234	218	213	192	187	175	173	171	165	168	172	179	192	214	220			
60	145	147	140	136	126	122	115	113	113	110	112	115	120	127	137	142			
65	97.4	98.3	93.7	90.2	82.2	81.4	77.6	76.9	76.8	75.4	76.9	77.5	79.1	86.9	92.7	95.9			
70	66.2	66.7	63.5	58.1	51.9	52.3	52.3	51.8	52.0	51.1	52.2	50.4	51.4	56.2	63.3	65.3			
75	42.8	43.2	39.6	33.6	29.0	29.5	31.2	32.2	32.3	31.7	31.3	28.5	29.3	32.7	39.6	42.3			
80	23.4	23.7	18.7	13.7	10.9	11.1	13.0	16.0	16.3	15.6	13.4	11.0	11.6	13.6	19.2	22.9			
85	9.02	8.25	3.66	1.52	0.64	0.83	1.68	3.91	4.85	3.68	2.00	0.87	0.93	1.64	3.97	7.88			
90	1.06	0.48	0.18	0.05	0.03	0.02	0.03	0.02	0.02	0.03	0.02	0.03	0.02	0.03	0.25	0.44			
95	0.03	0.03	0.03	0.02	0.03	0.03	0.04	0.03	0.02	0.03	0.02	0.03	0.02	0.02	0.02	0.03			
100	0.04	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03			
105	0.05	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02			
110	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.04			
115	0.09	0.08	0.09	0.09	0.10	0.11	0.12	0.12	0.09	0.10	0.10	0.10	0.09	0.09	0.08	0.08			
120	0.14	0.13	0.14	0.15	0.17	0.17	0.19	0.18	0.17	0.19	0.19	0.20	0.18	0.18	0.15	0.15			
125	0.22	0.20	0.22	0.23	0.26	0.27	0.29	0.28	0.30	0.32	0.33	0.34	0.32	0.31	0.27	0.26			
130	0.34	0.32	0.33	0.37	0.40	0.42	0.43	0.43	0.50	0.53	0.54	0.55	0.53	0.51	0.45	0.43			
135	0.53	0.51	0.54	0.60	0.66	0.67	0.66	0.64	0.87	0.92	0.96	0.97	0.92	0.87	0.80	0.76			
140	0.69	0.67	0.74	0.82	0.89	0.91	0.89	0.83	1.20	1.30	1.43	1.46	1.39	1.32	1.18	1.05			
145	0.91	0.87	0.98	1.09	1.17	1.20	1.16	1.03	1.44	1.63	1.92	2.00	1.93	1.80	1.67	1.36			
150	1.08	1.11	1.26	1.40	1.46	1.51	1.44	1.25	1.82	2.01	2.40	2.54	2.41	2.36	2.13	1.75			
155	1.29	1.34	1.49	1.66	1.71	1.78	1.70	1.50	2.07	2.28	2.67	2.86	2.87	2.73	2.46	2.10			
160	1.59	1.60	1.66	1.84	1.88	1.96	1.87	1.68	2.39	2.50	2.83	3.09	3.14	2.99	2.68	2.41			
165	1.78	1.82	1.82	1.89	1.95	2.08	2.04	1.89	2.47	2.64	2.90	3.08	3.11	3.02	2.79	2.54			
170	1.92	1.98	1.89	1.93	1.90	1.98	2.02	1.96	2.55	2.68	2.86	2.91	2.96	2.94	2.71	2.64			
175	2.06	2.15	2.11	2.11	1.95	2.15	2.05	2.13	2.49	2.55	2.60	2.62	2.56	2.67	2.54	2.49			
180	2.27	2.31	2.30	2.30	2.32	2.24	2.32	2.27	2.30	2.32	2.32	2.31	2.34	2.26	2.34	2.28			

C Range: 0 - 360DEG  
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γ Range: 0 - 180DEG  
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