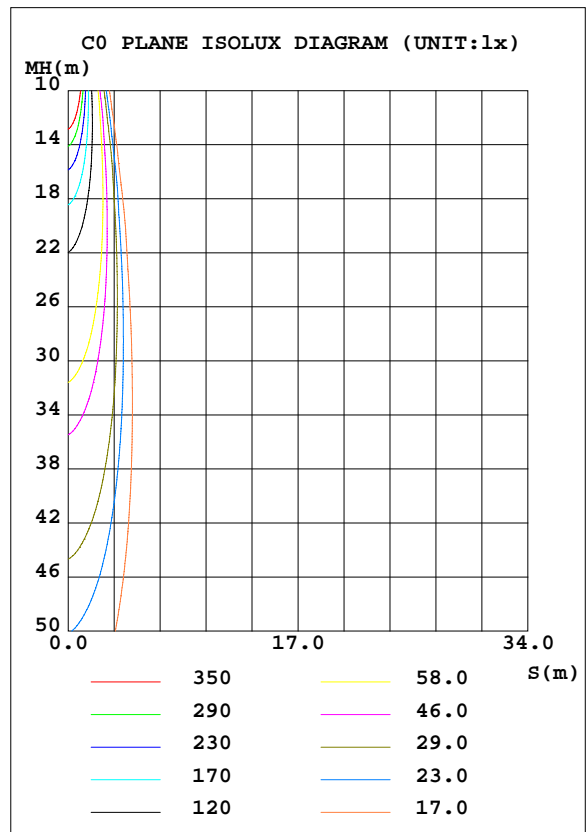
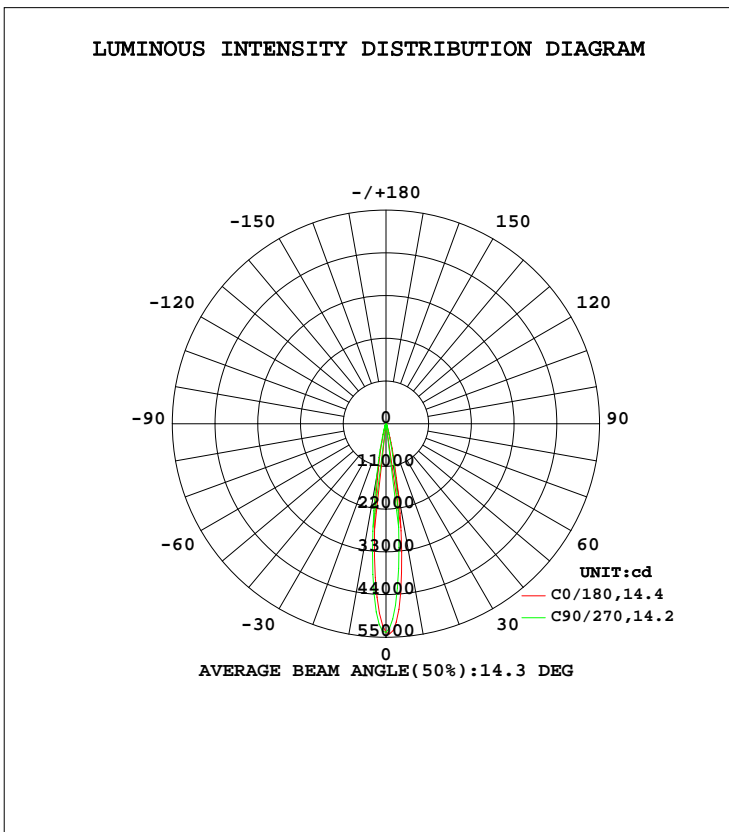


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.48 lm/W			
MODEL		I _{max} (cd)	54137	S/MH(C0/180)	0.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.24
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5013.5	η UP, DN(C0-180)	0.0,49.0
NOMINAL FLUX(lm)	5013.52	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.9
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	η down(%)	99.9	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:TIM
 Test Date:2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.6%
 Test Distance:2.506m [K=1.0120]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1112	1243	1406	1612	1876	1682	1389	1277	0- 10	2846	2846	56.8,56.8
20	112.9	138.2	130.8	174.5	150.1	161.7	131.8	160.1	10- 20	1329	4176	83.3,83.3
30	37.91	44.27	46.73	63.96	47.18	54.15	45.53	55.07	20- 30	411.5	4587	91.5,91.5
40	14.47	15.34	17.30	23.04	16.65	17.28	17.14	21.11	30- 40	186.5	4774	95.2,95.2
50	8.311	9.003	10.03	12.83	9.416	9.990	10.01	11.84	40- 50	106.3	4880	97.3,97.3
60	4.127	4.955	5.504	7.003	4.765	5.324	5.443	6.450	50- 60	70.29	4951	98.7,98.7
70	1.895	2.170	2.640	3.324	2.275	2.445	2.620	3.033	60- 70	39.24	4990	99.5,99.5
80	0.4479	0.5081	0.7229	1.009	0.6658	0.6657	0.7491	0.8798	70- 80	16.84	5007	99.9,99.9
90	0.0024	0.0020	0.0020	0.0025	0.0041	0.0033	0.0017	0.0007	80- 90	2.585	5009	99.9,99.9
100	0.0027	0.0025	0.0022	0.0024	0.0017	0.0012	0.0011	0.0011	90-100	0.0183	5009	99.9,99.9
110	0.0041	0.0036	0.0037	0.0039	0.0022	0.0017	0.0017	0.0017	100-110	0.0238	5009	99.9,99.9
120	0.0069	0.0065	0.0068	0.0074	0.0046	0.0043	0.0046	0.0055	110-120	0.0401	5009	99.9,99.9
130	0.0149	0.0145	0.0144	0.0165	0.0131	0.0138	0.0146	0.0182	120-130	0.0857	5009	99.9,99.9
140	0.0637	0.0592	0.0566	0.0560	0.0645	0.0683	0.0774	0.0887	130-140	0.2583	5010	99.9,99.9
150	0.2090	0.2145	0.2140	0.2096	0.3015	0.3242	0.3455	0.3645	140-150	0.9846	5011	99.9,99.9
160	0.2210	0.2348	0.2427	0.2483	0.5067	0.5352	0.5414	0.5517	150-160	1.594	5012	100,100
170	0.2054	0.2090	0.2203	0.2273	0.4571	0.4678	0.4601	0.4550	160-170	1.077	5013	100,100
180	0.1832	0.1775	0.1842	0.1898	0.1848	0.1813	0.1864	0.1904	170-180	0.2673	5014	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 4832.2 lm

%lum = 96.4%
%lamp = 96.4%

Conical surface Flux(120deg): 4950.5 lm

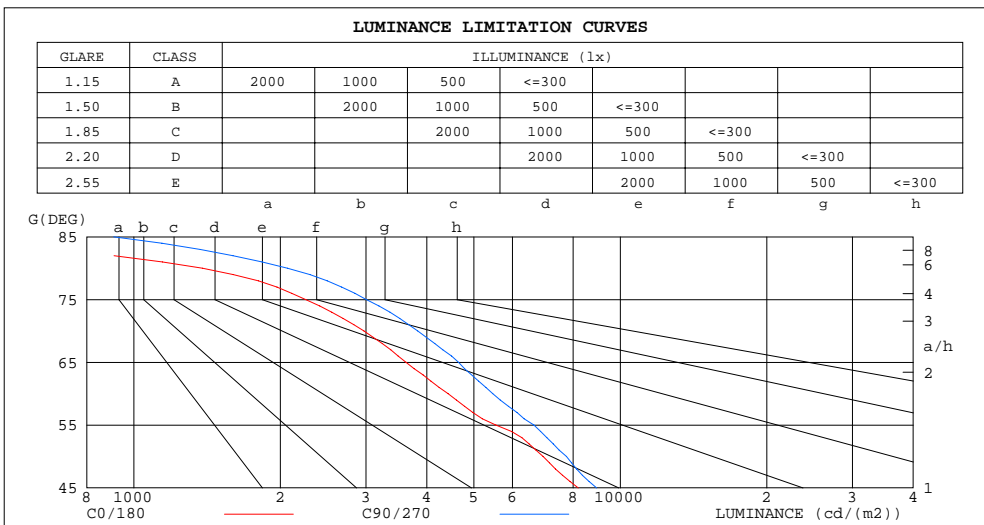
%lum = 98.7%
%lamp = 98.7%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:TIM
Test Date:2018-06-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56.6%
Test Distance:2.506m [K=1.0120]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	345	909
80	1383	2067
75	2255	3006
70	2971	3833
65	3626	4649
60	4426	5467
55	5547	6643
50	6933	7746
45	8191	8943

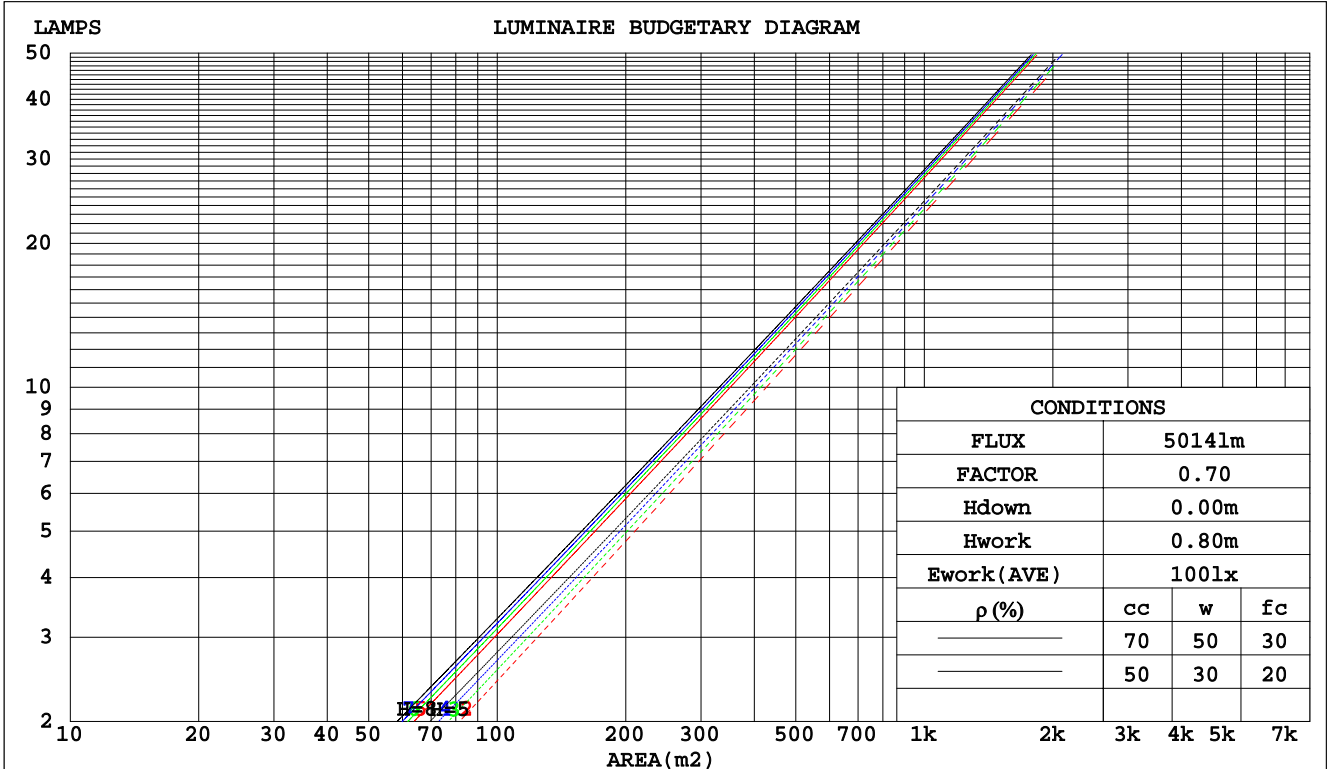
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: TIM
 Test Date: 2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 56.6%
 Test Distance: 2.506m [K=1.0120]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B. V.	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
pw																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	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.02	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.94	.92	.94	.92	.91	.89
5.0	.98	.94	.91	.97	.93	.91	.95	.92	.90	.94	.91	.89	.92	.90	.89	.87
6.0	.95	.91	.89	.94	.91	.88	.93	.90	.88	.92	.89	.87	.91	.88	.87	.86
7.0	.93	.89	.86	.92	.89	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
8.0	.91	.87	.84	.90	.87	.84	.89	.86	.84	.88	.86	.84	.88	.85	.83	.82
9.0	.89	.85	.83	.88	.85	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
10.0	.87	.84	.81	.87	.83	.81	.86	.83	.81	.85	.83	.81	.85	.82	.81	.80



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: TIM
 Test Date: 2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 56.6%
 Test Distance: 2.506m [K=1.0120]
 Remarks:

WEC AND CCEC

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B.V.	SUR.:	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.130	.074	.023	.124	.071	.022	.111	.064	.020	.100	.058	.019	.090	.052	.017	
2.0	.120	.066	.020	.115	.063	.019	.104	.058	.018	.095	.053	.017	.086	.049	.015	
3.0	.111	.059	.018	.106	.057	.017	.098	.053	.016	.090	.049	.015	.083	.046	.014	
4.0	.103	.053	.016	.099	.052	.015	.092	.049	.015	.085	.046	.014	.079	.043	.013	
5.0	.096	.049	.014	.092	.047	.014	.086	.045	.013	.081	.043	.013	.076	.040	.012	
6.0	.090	.045	.013	.087	.044	.013	.082	.042	.012	.077	.040	.012	.072	.038	.011	
7.0	.084	.042	.012	.082	.041	.012	.077	.039	.011	.073	.038	.011	.069	.036	.011	
8.0	.079	.039	.011	.077	.038	.011	.073	.037	.010	.070	.035	.010	.066	.034	.010	
9.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.033	.010	.064	.032	.009	
10.0	.071	.034	.009	.070	.034	.009	.067	.033	.009	.064	.032	.009	.061	.031	.009	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.149	.144	.136	.128	.099	.094	.089	.057	.054	.052	.018	.017	.017	
2.0	.150	.133	.119	.128	.115	.103	.088	.079	.072	.051	.046	.042	.016	.015	.014	
3.0	.134	.114	.097	.115	.098	.085	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.121	.098	.081	.104	.085	.070	.072	.059	.049	.041	.035	.029	.013	.011	.010	
5.0	.110	.086	.068	.095	.074	.059	.065	.052	.042	.038	.030	.025	.012	.010	.008	
6.0	.101	.076	.058	.087	.066	.050	.060	.046	.036	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.050	.080	.058	.043	.055	.041	.031	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.043	.074	.052	.037	.051	.037	.027	.030	.022	.016	.010	.007	.005	
9.0	.080	.055	.038	.069	.047	.033	.048	.033	.023	.028	.020	.014	.009	.006	.005	
10.0	.074	.050	.033	.064	.043	.029	.045	.030	.021	.026	.018	.012	.008	.006	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:TIM
 Test Date:2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.6%
 Test Distance:2.506m [K=1.0120]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm										
NAME: CLF Spectrum P2 Vari-white					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:ED180627010L		
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	10.9	11.4	11.1	11.6	11.7	11.5	12.1	11.7	12.3	12.4
3H	11.4	11.9	11.6	12.1	12.3	12.2	12.7	12.4	12.9	13.1
4H	11.5	12.0	11.8	12.2	12.5	12.3	12.9	12.6	13.1	13.3
6H	11.5	12.0	11.8	12.3	12.5	12.4	12.9	12.7	13.2	13.4
8H	11.5	12.0	11.8	12.2	12.5	12.4	12.9	12.7	13.1	13.4
12H	11.5	11.9	11.8	12.2	12.5	12.4	12.8	12.7	13.1	13.4
4H 2H	11.2	11.7	11.5	11.9	12.1	11.8	12.3	12.0	12.5	12.7
3H	11.8	12.3	12.1	12.5	12.8	12.5	13.0	12.8	13.2	13.5
4H	12.0	12.4	12.3	12.7	13.0	12.7	13.2	13.1	13.5	13.8
6H	12.0	12.4	12.4	12.8	13.1	12.8	13.2	13.2	13.6	13.9
8H	12.0	12.4	12.4	12.7	13.1	12.8	13.2	13.2	13.5	13.9
12H	12.0	12.3	12.4	12.7	13.0	12.8	13.1	13.2	13.5	13.9
8H 4H	12.0	12.4	12.4	12.7	13.1	12.7	13.1	13.1	13.4	13.8
6H	12.1	12.4	12.5	12.8	13.2	12.8	13.1	13.3	13.5	14.0
8H	12.0	12.3	12.5	12.7	13.2	12.8	13.1	13.3	13.5	14.0
12H	12.0	12.2	12.5	12.7	13.1	12.8	13.0	13.3	13.5	13.9
12H 4H	12.0	12.3	12.4	12.7	13.0	12.7	13.0	13.1	13.4	13.8
6H	12.0	12.3	12.5	12.7	13.2	12.8	13.1	13.2	13.5	13.9
8H	12.0	12.2	12.5	12.7	13.1	12.8	13.0	13.3	13.5	13.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.6 / - 0.8				
1.5H	+ 0.6 / - 0.5					+ 0.8 / - 0.6				
2.0H	+ 1.1 / - 1.3					+ 1.1 / - 1.2				

CIE Pub.117, 5014 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.6)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:TIM
Test Date:2018-06-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56.6%
Test Distance:2.506m [K=1.0120]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:

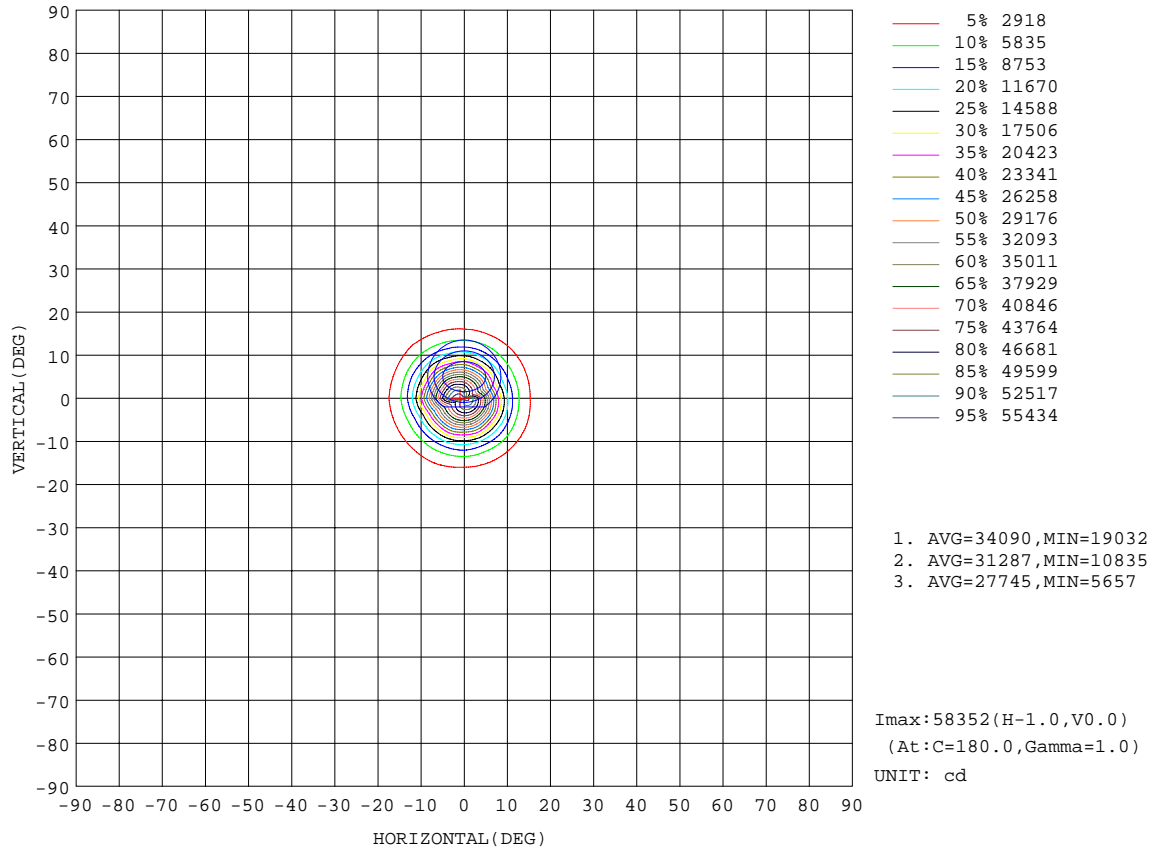
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHR NOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:TIM
 Test Date:2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.6%
 Test Distance:2.506m [K=1.0120]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:



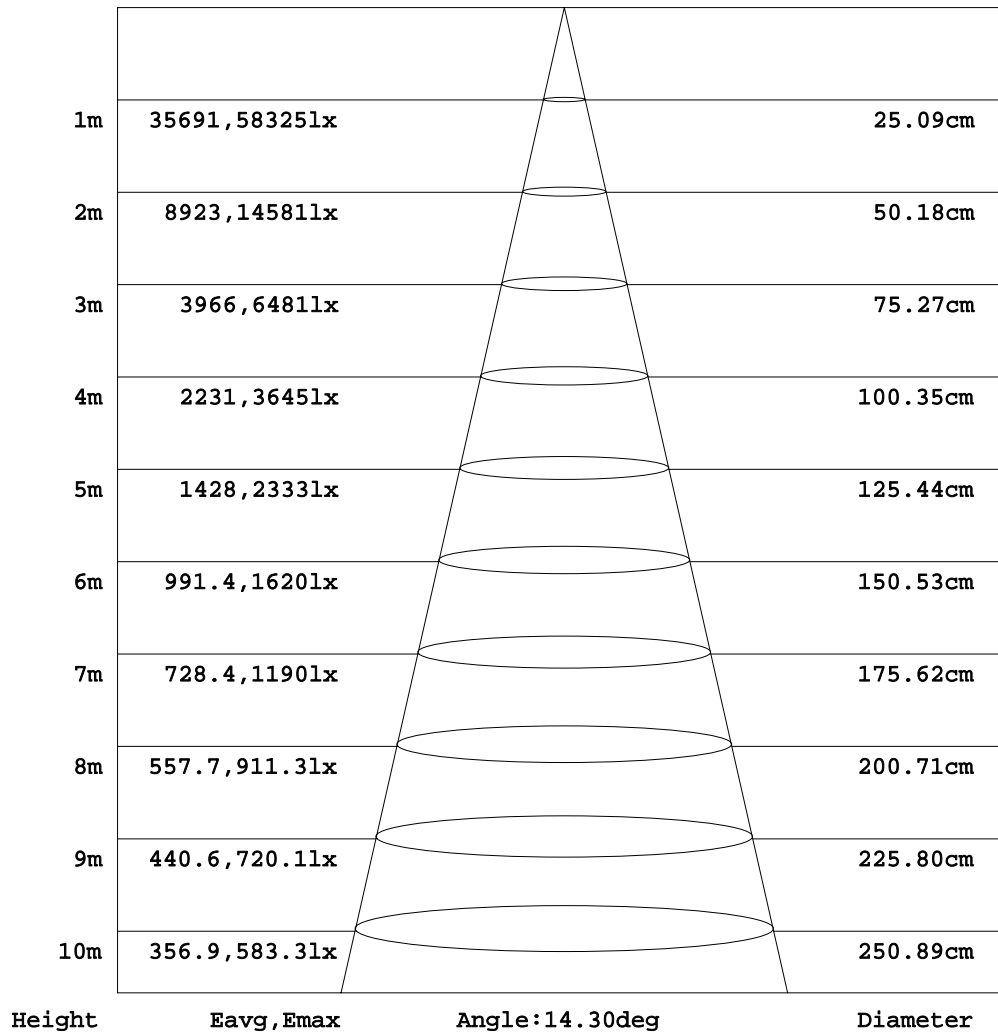
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:TIM
Test Date:2018-06-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56.6%
Test Distance:2.506m [K=1.0120]
Remarks:

AAI Figure

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:

Flux out:2215 lm



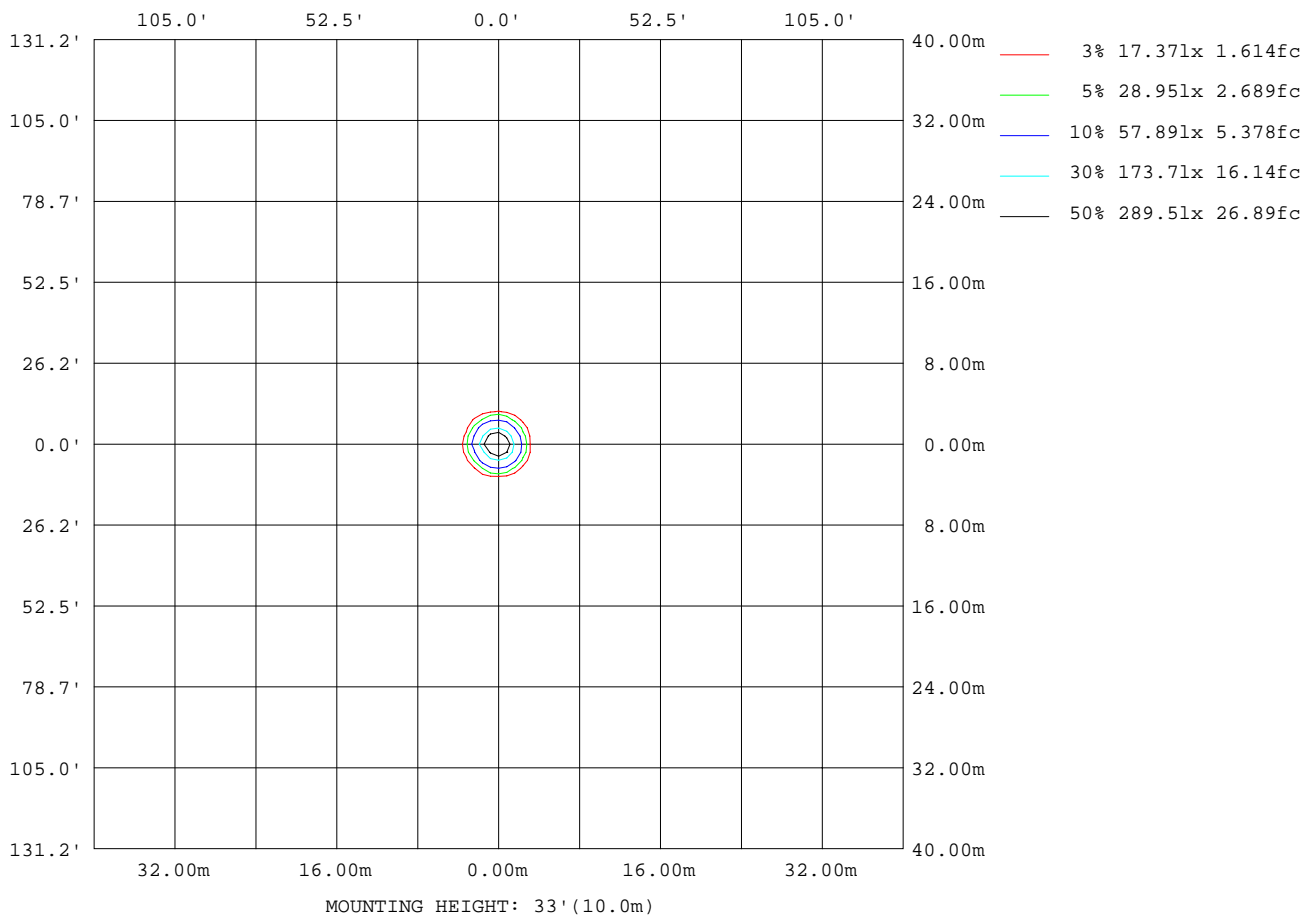
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:TIM
Test Date:2018-06-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56.6%
Test Distance:2.506m [K=1.0120]
Remarks:

ISOLUX DIAGRAM

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
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:2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.6%
 Test Distance:2.506m [K=1.0120]
 Remarks:

LED Avg.L Report

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:

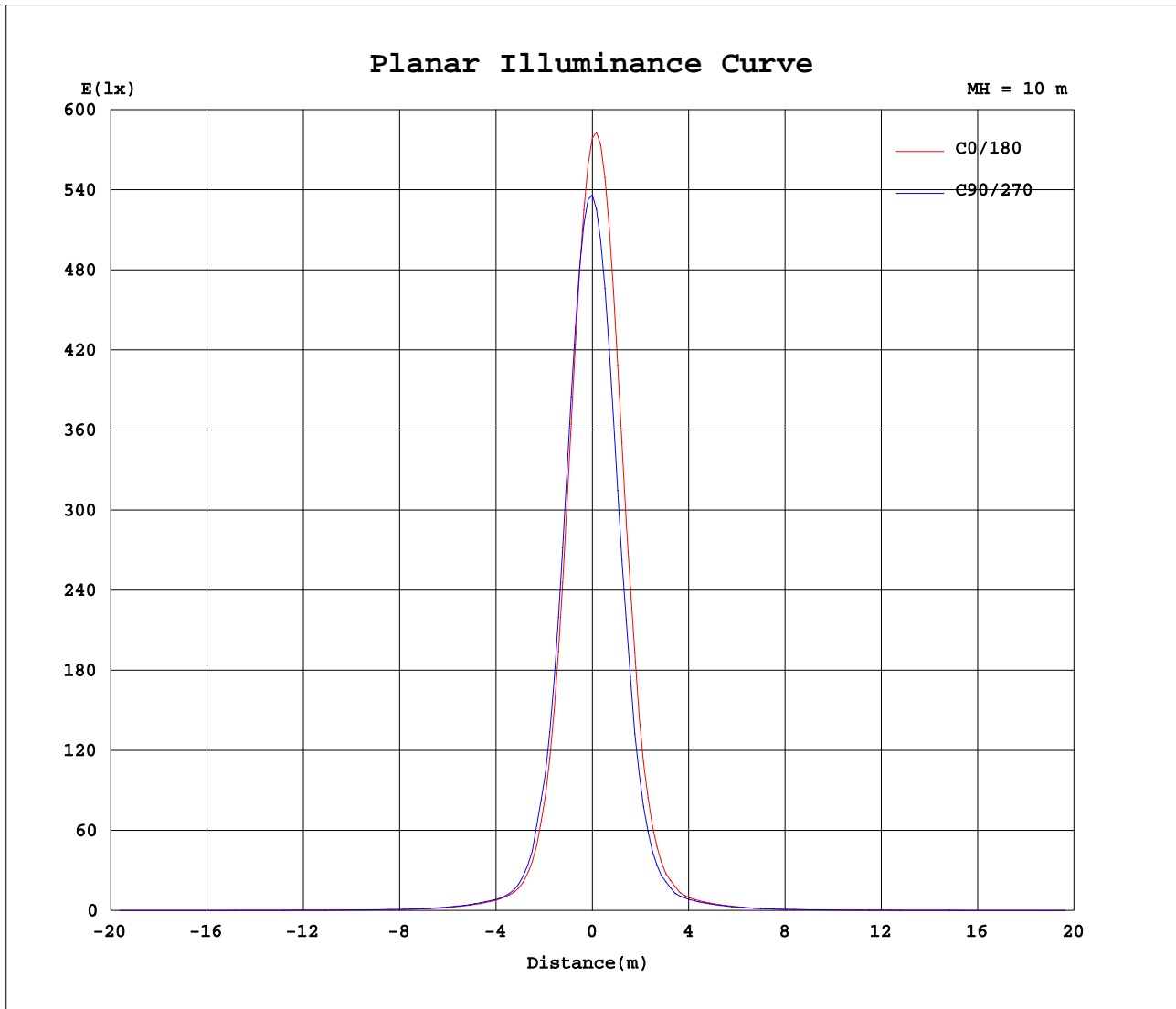
AvgL	cd/m2
L_0~180(65)av	3671
L_0~180(75)av	2354
L_0~180(85)av	583
L_90~270(65)av	4614
L_90~270(75)av	3009
L_90~270(85)av	997
L_45(65)av	4874
L_45(75)av	3138
L_45(85)av	1033

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:TIM
 Test Date:2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.6%
 Test Distance:2.506m [K=1.0120]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: TIM
 Test Date: 2018-06-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 56.6%
 Test Distance: 2.506m [K=1.0120]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.23V I:0.4909A P:93.750W PF:0.8295 Freq:50.00Hz Lamp Flux:5013.52x1 lm		
NAME: CLF Spectrum P2 Vari-white	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627010L
MFR.: CLF LIGHTING B. V.	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

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	5371	5371	5371	5371	5371	5371	5371	5371	5371	5371	5371	5371	5371	5371	5371	5371			
5	3421	3586	3646	3802	3899	4052	4136	4281	4359	4170	4058	3857	3740	3628	3587	3489			
10	1112	1199	1243	1333	1406	1528	1612	1740	1876	1686	1682	1466	1389	1311	1277	1206			
15	288	321	335	357	378	422	457	513	495	468	460	404	379	360	362	359			
20	113	130	138	133	131	153	175	195	150	156	162	141	132	146	160	162			
25	65.4	78.6	89.0	79.8	77.1	93.8	112	118	79.8	91.3	104	83.0	77.0	89.7	100	98.8			
30	37.9	41.6	44.3	45.3	46.7	54.5	64.0	70.4	47.2	49.4	54.1	47.0	45.5	50.0	55.1	58.5			
35	21.4	23.1	23.6	25.3	26.8	30.8	35.5	41.2	26.4	26.1	27.5	26.0	26.1	28.9	31.7	35.0			
40	14.5	14.7	15.3	16.5	17.3	20.1	23.0	26.7	16.7	16.4	17.3	17.1	17.1	19.6	21.1	23.4			
45	10.8	10.8	11.4	12.4	12.7	14.8	16.7	19.2	12.3	12.0	12.8	13.0	12.9	14.5	15.5	17.1			
50	8.31	8.49	9.00	9.81	10.0	11.5	12.8	14.3	9.42	9.21	9.99	10.0	10.01	11.3	11.8	12.8			
55	5.93	6.29	6.80	7.42	7.67	8.86	9.74	10.33	7.19	6.84	7.48	7.54	7.55	8.43	8.94	9.24			
60	4.13	4.50	4.95	5.08	5.50	6.29	7.00	7.52	4.77	4.92	5.32	5.37	5.44	5.97	6.45	6.71			
65	2.86	3.14	3.36	3.55	3.96	4.36	4.96	5.43	3.38	3.57	3.71	3.70	3.88	4.17	4.54	4.76			
70	1.90	2.02	2.17	2.38	2.64	2.95	3.32	3.64	2.27	2.33	2.44	2.50	2.62	2.83	3.03	3.21			
75	1.09	1.14	1.24	1.39	1.57	1.79	2.02	2.27	1.36	1.36	1.43	1.52	1.56	1.74	1.84	1.94			
80	0.45	0.47	0.51	0.60	0.72	0.85	1.01	1.17	0.67	0.63	0.67	0.71	0.75	0.85	0.88	0.95			
85	0.06	0.07	0.08	0.11	0.16	0.21	0.27	0.35	0.15	0.14	0.15	0.18	0.19	0.22	0.22	0.22			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01			
125	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
130	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02			
135	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05			
140	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.10			
145	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.15	0.16	0.17	0.17	0.18	0.19	0.20	0.21			
150	0.21	0.22	0.21	0.22	0.21	0.21	0.21	0.21	0.30	0.32	0.32	0.33	0.35	0.35	0.36	0.37			
155	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.43	0.46	0.46	0.47	0.48	0.48	0.49	0.49			
160	0.22	0.24	0.23	0.24	0.24	0.25	0.25	0.25	0.51	0.53	0.54	0.53	0.54	0.54	0.55	0.54			
165	0.22	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.52	0.54	0.54	0.54	0.54	0.53	0.54	0.53			
170	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.46	0.46	0.47	0.46	0.46	0.45	0.46	0.44			
175	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.32	0.31	0.32	0.31	0.31	0.30	0.30	0.30			
180	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.20			

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