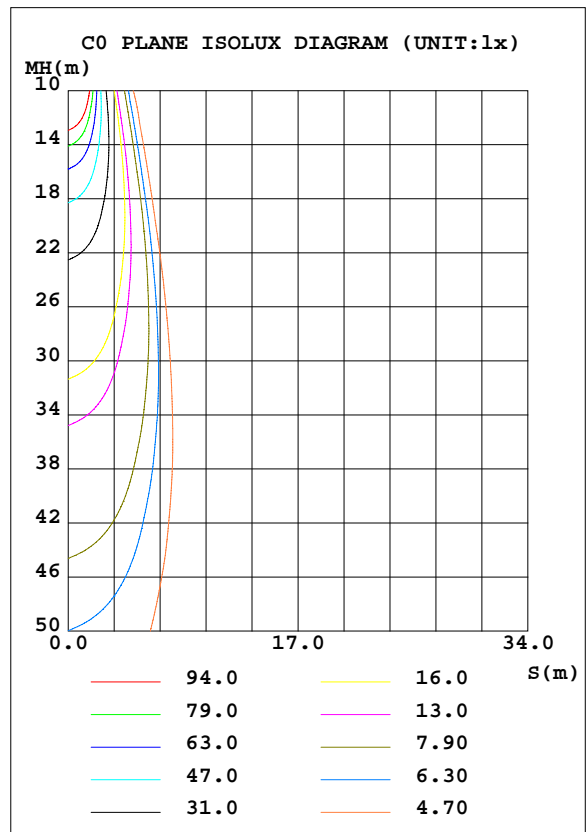
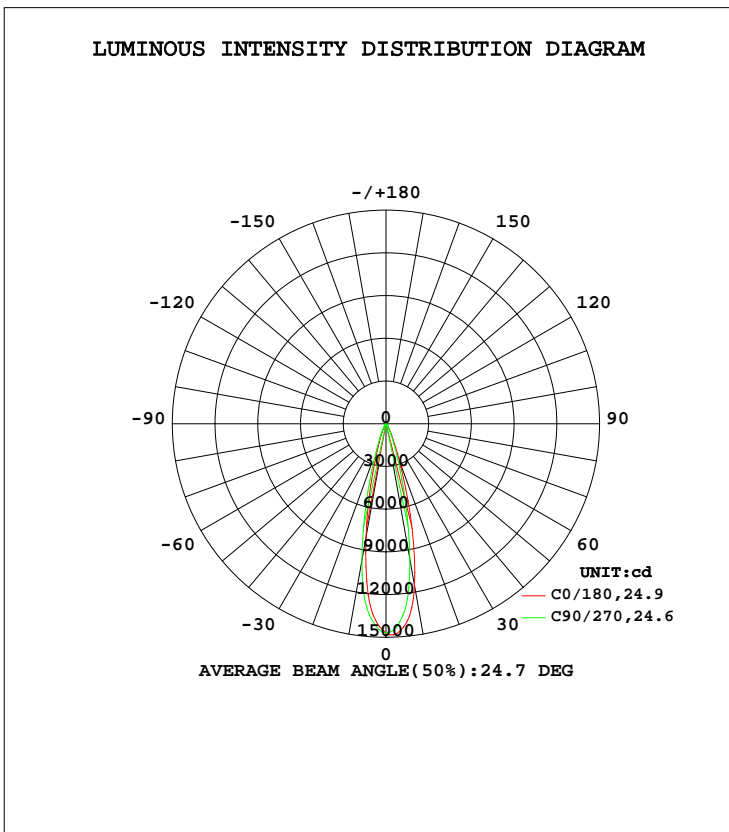


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 30.76 lm/W			
MODEL		I <sub>max</sub> (cd)	14839	S/MH(C0/180)	0.45
NOMINAL POWER(W)	110	LOR(%)	100.0	S/MH(C90/270)	0.41
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3265.6	η UP, DN(C0-180)	0.0,48.6
NOMINAL FLUX(lm)	3265.61	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,51.3
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:2.536m [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	814.8	864.3	974.8	1082	1157	1092	965.7	859.4	0- 10	1172	1172	35.9,35.9
20	141.8	157.0	190.8	234.1	268.3	235.0	200.7	157.8	10- 20	1382	2554	78.2,78.2
30	32.83	35.35	41.04	47.78	53.26	48.44	42.09	36.17	20- 30	428.9	2983	91.3,91.3
40	10.20	10.74	11.86	13.70	15.08	13.79	12.43	11.03	30- 40	146.2	3129	95.8,95.8
50	4.756	5.118	5.329	5.823	5.993	5.804	5.504	5.147	40- 50	61.82	3191	97.7,97.7
60	2.914	3.067	3.189	3.730	3.835	3.610	3.222	3.166	50- 60	38.93	3230	98.9,98.9
70	1.522	1.347	1.515	1.630	1.861	1.679	1.389	1.465	60- 70	22.98	3253	99.6,99.6
80	0.2084	0.2318	0.3296	0.3783	0.4223	0.3769	0.2869	0.2487	70- 80	9.085	3262	99.9,99.9
90	0.0002	0.0004	0.0012	0.0038	0.0042	0.0016	0	0	80- 90	0.9826	3263	99.9,99.9
100	0.0004	0.0005	0.0005	0.0005	0	0	0	0	90-100	0.0020	3263	99.9,99.9
110	0.0011	0.0012	0.0012	0.0011	0	0	0	0	100-110	0.0033	3263	99.9,99.9
120	0.0035	0.0035	0.0032	0.0028	0.0012	0.0015	0.0019	0.0022	110-120	0.0123	3263	99.9,99.9
130	0.0132	0.0122	0.0108	0.0095	0.0098	0.0107	0.0126	0.0147	120-130	0.0511	3263	99.9,99.9
140	0.0555	0.0529	0.0471	0.0428	0.0620	0.0669	0.0766	0.0872	130-140	0.2452	3263	99.9,99.9
150	0.1210	0.1219	0.1174	0.1122	0.1808	0.1941	0.2083	0.2212	140-150	0.6705	3264	99.9,99.9
160	0.1583	0.1613	0.1625	0.1610	0.2988	0.3097	0.3138	0.3142	150-160	0.9303	3265	100,100
170	0.1549	0.1542	0.1575	0.1583	0.3067	0.3019	0.2930	0.2782	160-170	0.6746	3265	100,100
180	0.1879	0.1857	0.1798	0.1697	0.1936	0.1887	0.1833	0.1725	170-180	0.1948	3266	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 3165.1 lm

%lum = 96.9%  
%lamp = 96.9%

Conical surface Flux(120deg): 3229.8 lm

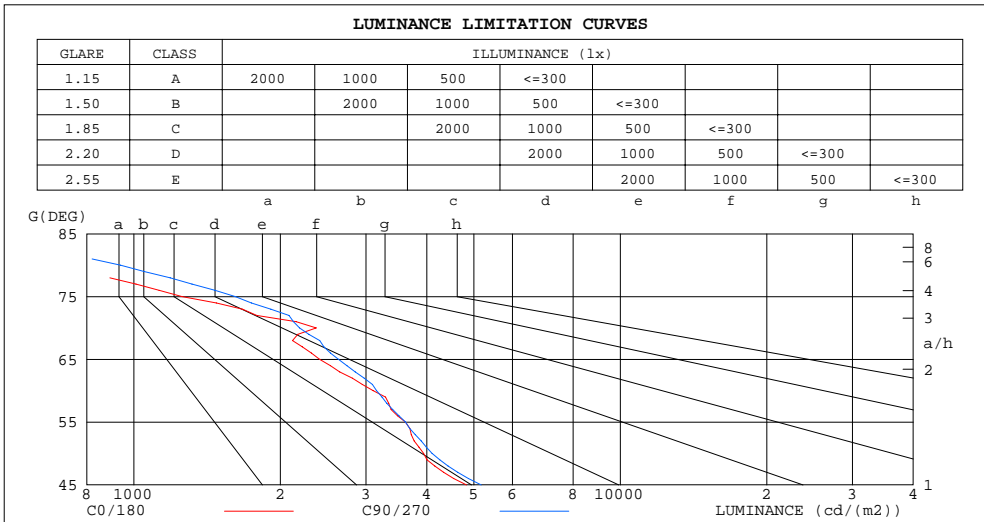
%lum = 98.9%  
%lamp = 98.9%

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:2.536m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	149	320
80	639	939
75	1255	1615
70	2370	2191
65	2409	2633
60	3104	3155
55	3615	3616
50	3941	4101
45	4827	5177

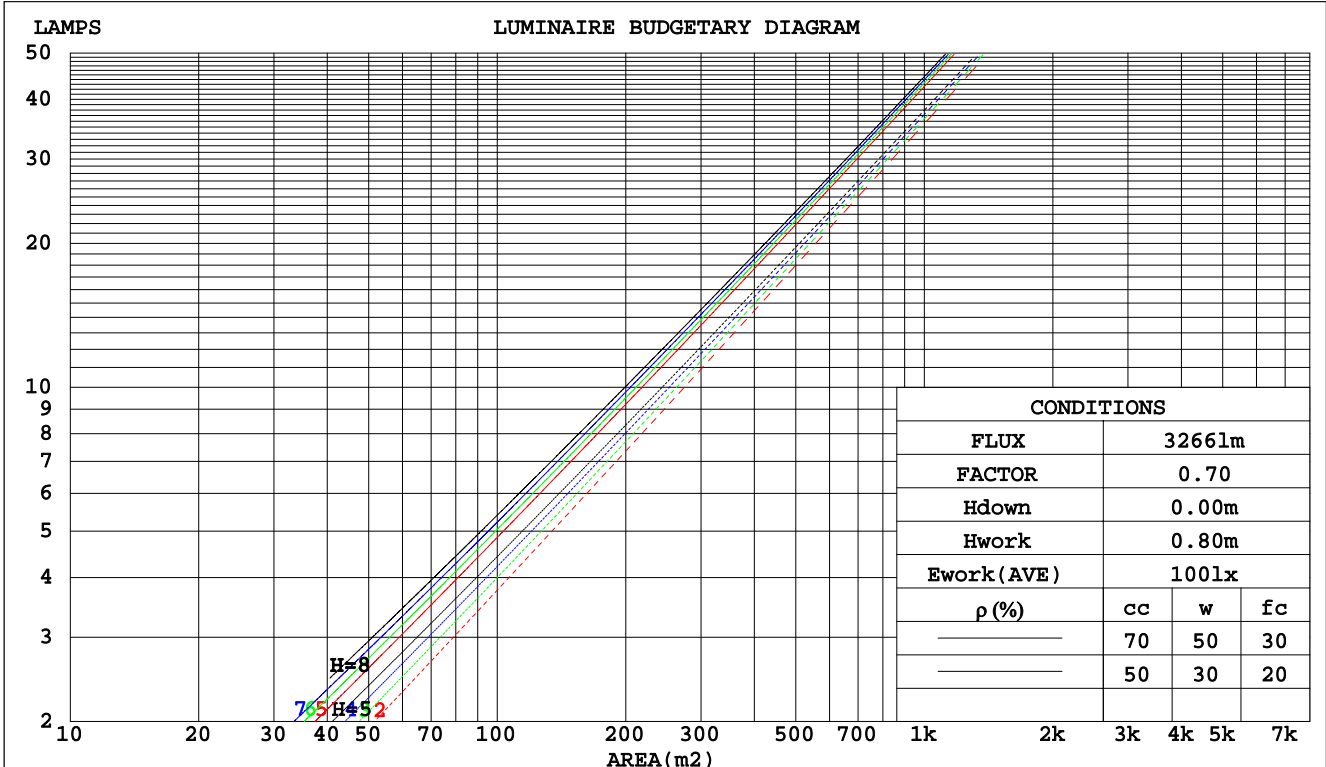
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: TIM  
 Test Date: 2018-06-28

$\gamma$  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:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
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	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.03	1.00	1.02	.99	.98	.99	.97	.96	.97	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.95	.98	.96	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.87	.93	.89	.86	.92	.88	.86	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.87	.84	.90	.86	.83	.89	.85	.83	.88	.85	.82	.86	.84	.82	.81
7.0	.88	.84	.81	.87	.83	.80	.86	.83	.80	.85	.82	.80	.84	.81	.79	.78
8.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
9.0	.83	.78	.76	.82	.78	.76	.81	.78	.75	.81	.77	.75	.80	.77	.75	.74
10.0	.80	.76	.74	.80	.76	.73	.79	.76	.73	.79	.75	.73	.78	.75	.73	.72



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: 2.536m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
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	.143	.081	.026	.136	.077	.025	.123	.071	.023	.112	.065	.021	.101	.059	.019	
2.0	.133	.073	.022	.127	.070	.022	.117	.065	.020	.107	.060	.019	.098	.056	.018	
3.0	.124	.066	.020	.119	.064	.019	.110	.060	.018	.102	.056	.017	.095	.053	.016	
4.0	.116	.060	.018	.112	.058	.017	.104	.055	.017	.098	.052	.016	.091	.050	.015	
5.0	.109	.055	.016	.105	.054	.016	.099	.052	.015	.093	.049	.015	.088	.047	.014	
6.0	.103	.051	.015	.100	.050	.015	.094	.048	.014	.089	.046	.014	.085	.045	.013	
7.0	.097	.048	.014	.095	.047	.013	.090	.046	.013	.086	.044	.013	.082	.042	.012	
8.0	.092	.045	.013	.090	.044	.013	.086	.043	.012	.082	.042	.012	.079	.040	.012	
9.0	.088	.043	.012	.086	.042	.012	.083	.041	.012	.079	.040	.011	.076	.039	.011	
10.0	.084	.040	.011	.083	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	

$\rho_{cc}$	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	.169	.158	.148	.145	.136	.128	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.152	.133	.118	.130	.115	.102	.089	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.137	.114	.096	.117	.098	.083	.081	.068	.058	.047	.040	.034	.015	.013	.011	
4.0	.125	.099	.079	.107	.085	.069	.074	.059	.048	.043	.035	.029	.014	.011	.009	
5.0	.114	.086	.066	.098	.075	.057	.068	.052	.041	.039	.031	.024	.013	.010	.008	
6.0	.105	.076	.056	.091	.066	.049	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.048	.084	.059	.042	.058	.042	.029	.034	.024	.018	.011	.008	.006	
8.0	.091	.062	.041	.078	.053	.036	.054	.038	.026	.032	.022	.015	.010	.007	.005	
9.0	.085	.056	.036	.074	.049	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.032	.069	.044	.028	.048	.031	.020	.028	.018	.012	.009	.006	.004	

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

$\gamma$  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:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm										
NAME: CLF HERA					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:ED180627011L		
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	9.5	10.2	9.7	10.3	10.5	9.8	10.5	10.0	10.7	10.8
3H	10.0	10.7	10.3	10.9	11.0	10.4	11.0	10.6	11.2	11.4
4H	10.1	10.7	10.4	10.9	11.2	10.5	11.1	10.8	11.3	11.6
6H	10.1	10.7	10.4	10.9	11.1	10.5	11.1	10.8	11.3	11.6
8H	10.1	10.6	10.4	10.9	11.1	10.5	11.1	10.8	11.3	11.6
12H	10.0	10.6	10.3	10.8	11.1	10.5	11.0	10.8	11.3	11.5
4H 2H	9.8	10.4	10.0	10.6	10.8	10.0	10.6	10.3	10.8	11.1
3H	10.4	10.9	10.7	11.2	11.4	10.7	11.2	11.0	11.5	11.8
4H	10.5	11.0	10.8	11.3	11.6	10.9	11.4	11.2	11.7	12.0
6H	10.5	10.9	10.9	11.2	11.6	10.9	11.3	11.3	11.7	12.0
8H	10.4	10.8	10.8	11.2	11.6	10.9	11.3	11.3	11.6	12.0
12H	10.4	10.8	10.8	11.1	11.5	10.8	11.2	11.2	11.6	12.0
8H 4H	10.5	10.9	10.9	11.2	11.6	10.8	11.2	11.2	11.6	12.0
6H	10.5	10.8	10.9	11.2	11.6	10.9	11.2	11.3	11.6	12.0
8H	10.4	10.7	10.9	11.1	11.6	10.9	11.2	11.3	11.6	12.0
12H	10.4	10.6	10.8	11.1	11.5	10.8	11.1	11.3	11.5	12.0
12H 4H	10.4	10.8	10.8	11.2	11.6	10.8	11.2	11.2	11.5	11.9
6H	10.4	10.7	10.9	11.1	11.6	10.8	11.1	11.3	11.5	12.0
8H	10.4	10.6	10.8	11.1	11.5	10.8	11.1	11.3	11.5	12.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.3					+ 1.0 / - 1.3				
1.5H	+ 1.6 / - 0.9					+ 1.8 / - 0.9				
2.0H	+ 1.0 / - 1.2					+ 1.0 / - 1.0				

CIE Pub.117, 3266 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.1)

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:2.536m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
MFR.: CLF LIGHTING B. V.	SUR.:	Shielding Angle:

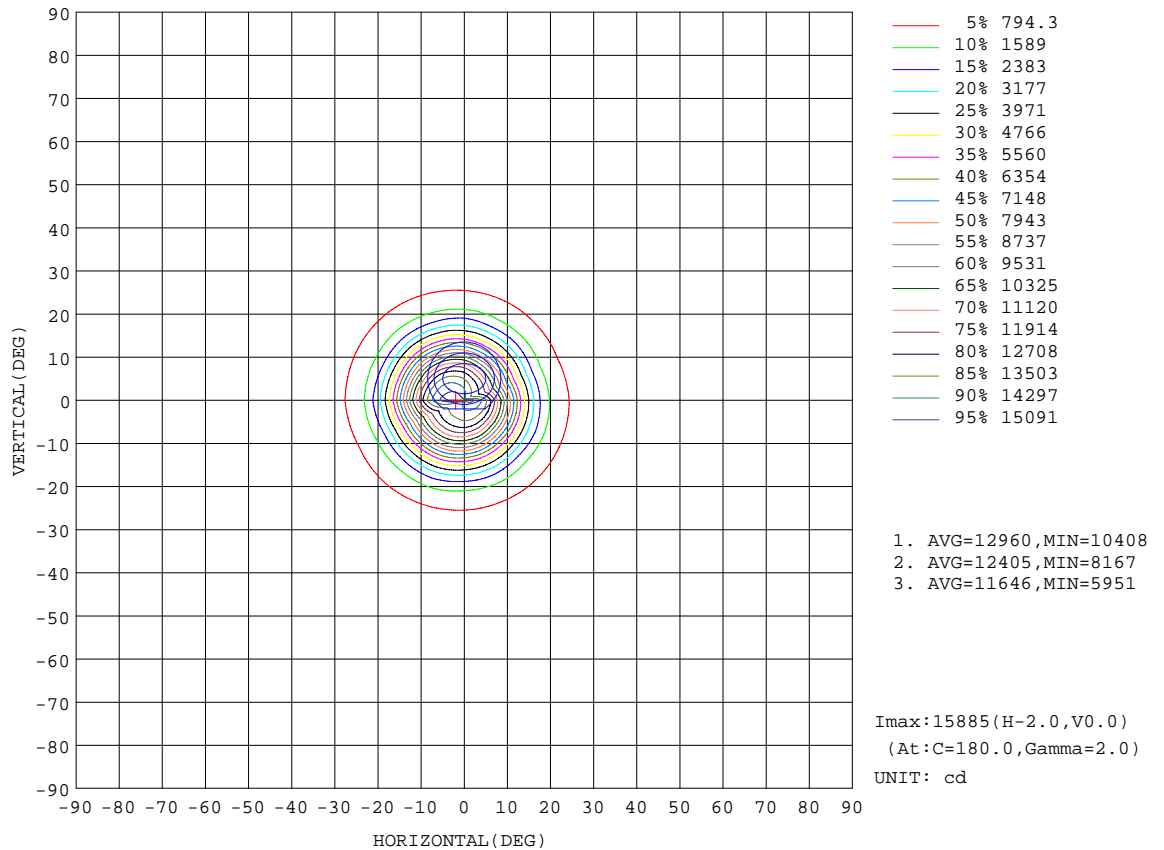
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	95	90	87	94	90	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	98	95	101	97	95	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
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				SHRNOM = 1.25			

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

$\gamma$  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:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:



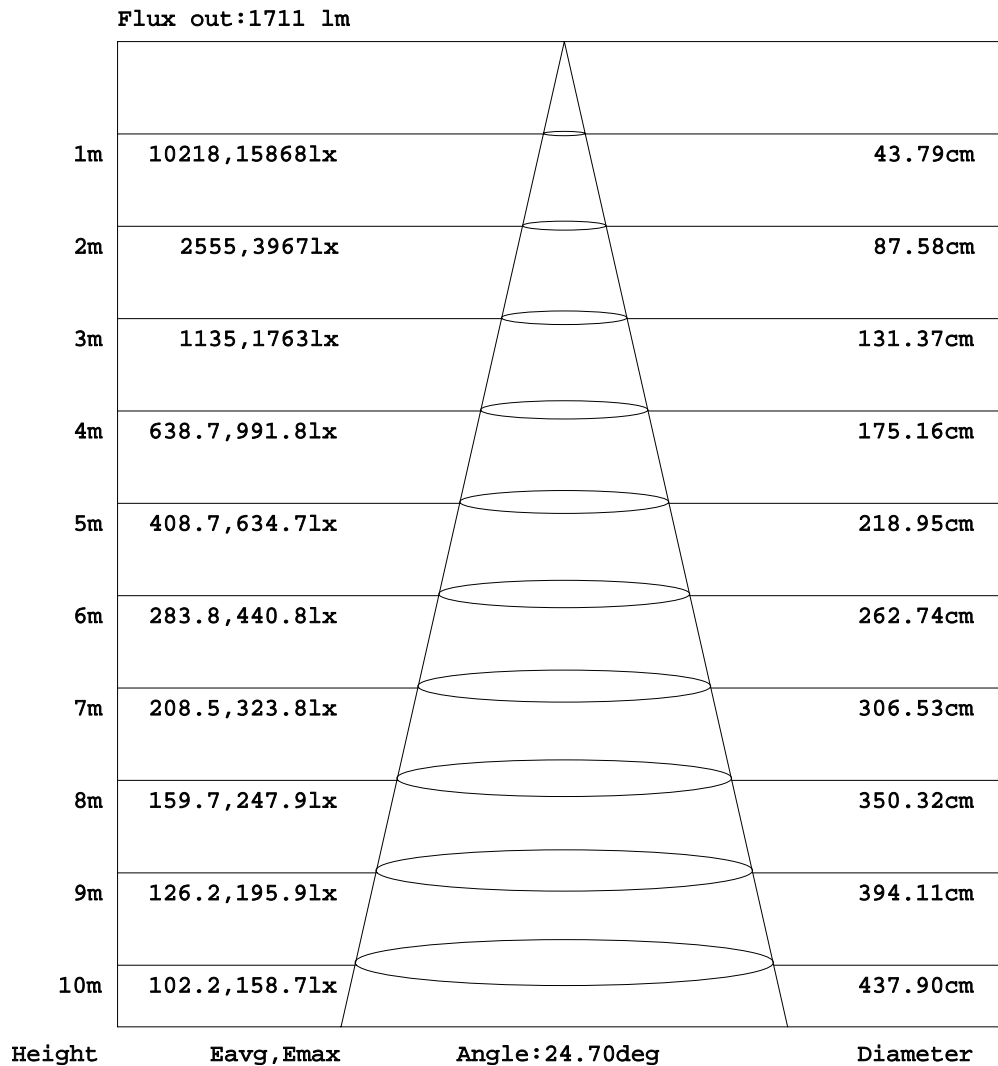
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: TIM  
 Test Date: 2018-06-28

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



**AAI Figure**

Test:U:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:



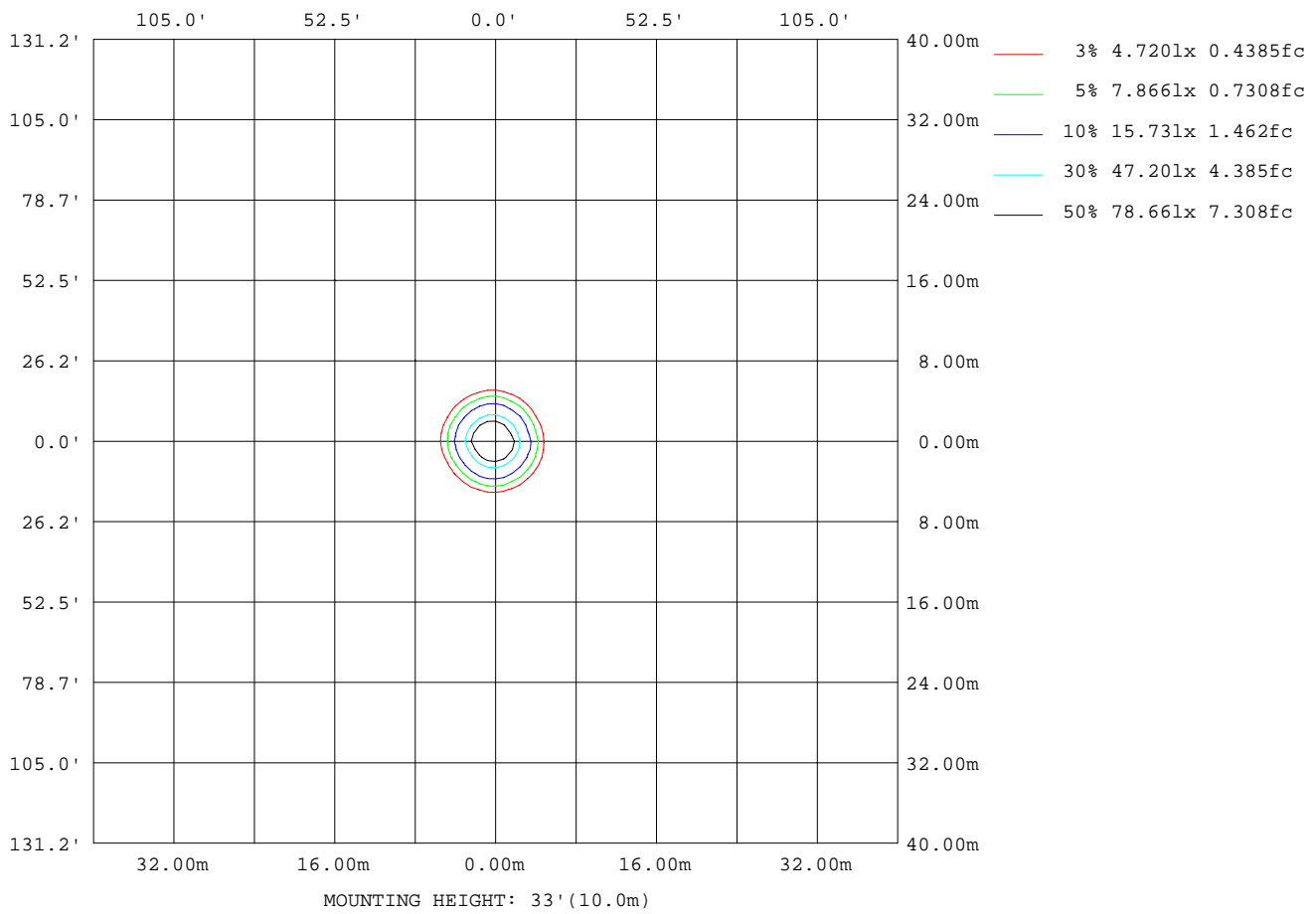
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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

**ISOLUX DIAGRAM**

Test:U:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
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

$\gamma$  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:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
MFR.: CLF LIGHTING B.V.	SUR.:	Shielding Angle:

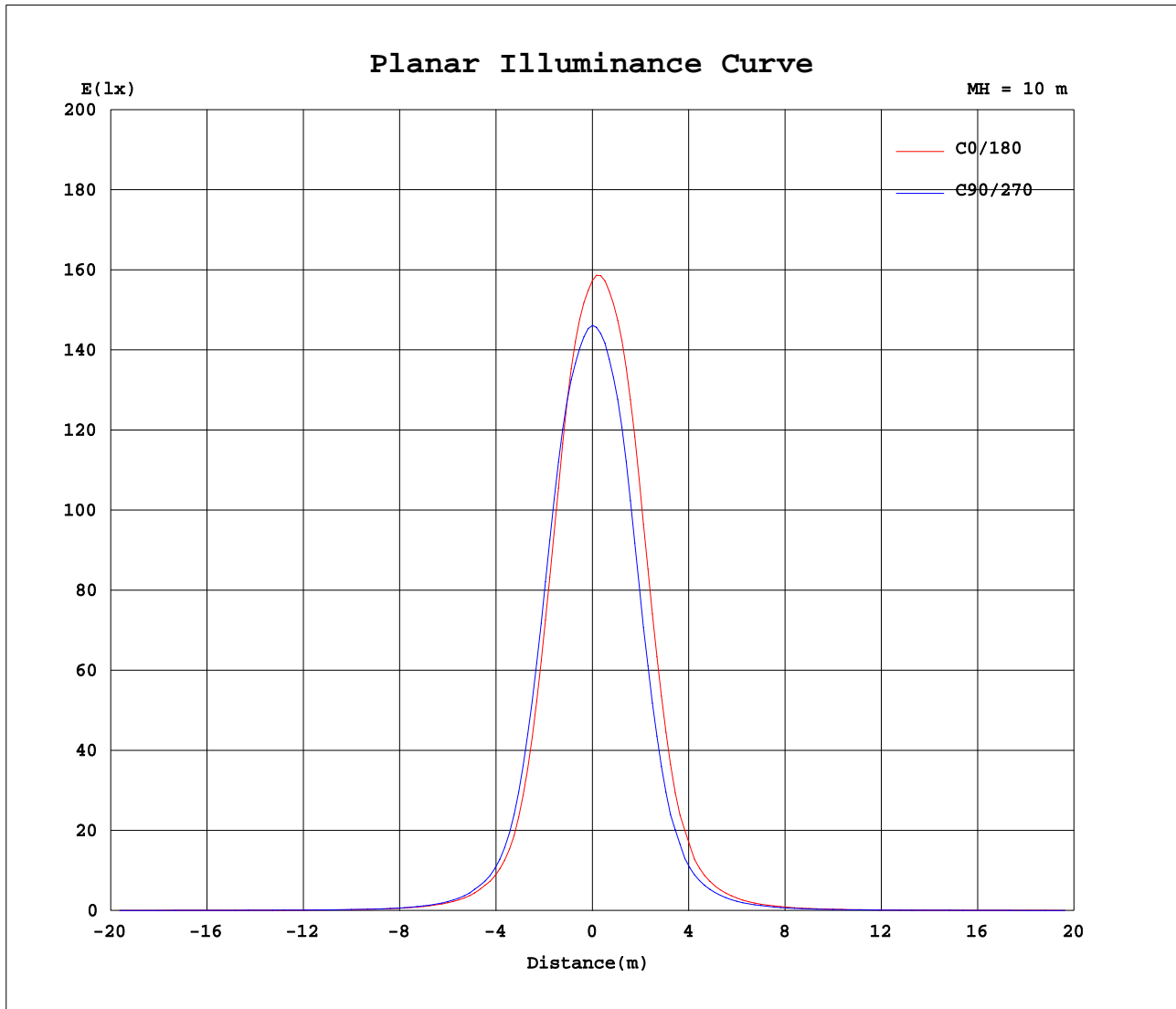
AvgL	cd/m2
L_0~180(65)av	2665
L_0~180(75)av	1585
L_0~180(85)av	317
L_90~270(65)av	2600
L_90~270(75)av	1578
L_90~270(85)av	293
L_45(65)av	2654
L_45(75)av	1548
L_45(85)av	312

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:2.536m [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: 2018-06-28

$\gamma$  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:230.00V I:0.5374A P:106.15W PF:0.8588 Freq:50.00Hz Lamp Flux:3265.61x1 lm		
NAME: CLF HERA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED180627011L
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	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470			
5	1278	1291	1303	1327	1349	1377	1402	1422	1432	1424	1416	1387	1354	1330	1301	1282			
10	815	841	864	923	975	1044	1082	1126	1157	1121	1092	1026	966	901	859	825			
15	368	386	406	449	492	552	589	634	658	619	589	532	487	438	406	379			
20	142	151	157	183	191	227	234	256	268	249	235	210	201	170	158	146			
25	67.3	69.3	72.9	78.2	85.5	93.3	99.0	107	110	104	100	90.6	85.2	79.0	72.3	67.7			
30	32.8	34.5	35.3	38.5	41.0	45.8	47.8	51.6	53.3	50.2	48.4	44.2	42.1	38.3	36.2	34.2			
35	17.7	18.9	18.9	20.8	21.4	23.9	25.1	26.9	27.0	25.6	25.4	23.4	22.8	20.5	19.6	18.6			
40	10.2	10.6	10.7	11.4	11.9	13.0	13.7	14.5	15.1	14.1	13.8	13.1	12.4	11.7	11.0	10.51			
45	6.41	6.71	6.83	7.26	7.40	7.98	8.56	8.88	8.95	8.60	8.48	8.19	7.75	7.27	7.00	6.75			
50	4.76	5.01	5.12	5.26	5.33	5.33	5.82	5.95	5.99	5.69	5.80	5.67	5.50	5.18	5.15	4.95			
55	3.89	4.10	4.21	4.35	4.19	4.52	4.75	4.73	4.74	4.59	4.67	4.70	4.47	4.21	4.11	3.88			
60	2.91	2.97	3.07	3.36	3.19	3.53	3.73	3.81	3.84	3.80	3.61	3.45	3.22	3.06	3.17	2.86			
65	1.91	2.00	2.04	2.24	2.25	2.44	2.48	2.60	2.62	2.54	2.47	2.31	2.17	2.05	2.03	1.93			
70	1.52	1.33	1.35	1.52	1.51	1.54	1.63	1.74	1.86	1.74	1.68	1.54	1.39	1.38	1.46	1.29			
75	0.61	0.68	0.71	0.77	0.84	0.90	0.96	0.97	1.04	0.95	0.91	0.86	0.80	0.73	0.65	0.64			
80	0.21	0.21	0.23	0.30	0.33	0.38	0.38	0.42	0.42	0.39	0.38	0.31	0.29	0.24	0.25	0.22			
85	0.02	0.03	0.03	0.05	0.06	0.07	0.08	0.10	0.09	0.07	0.07	0.05	0.05	0.04	0.04	0.03			
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	0.00	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			
120	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			
125	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01			
130	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			
135	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04			
140	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09			
145	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.15			
150	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.22			
155	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.28			
160	0.16	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31			
165	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.30			
170	0.15	0.16	0.15	0.16	0.16	0.16	0.16	0.16	0.31	0.30	0.30	0.30	0.29	0.28	0.28	0.27			
175	0.15	0.15	0.15	0.15	0.15	0.16	0.15	0.15	0.25	0.24	0.25	0.24	0.23	0.22	0.22	0.21			
180	0.19	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.16			

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