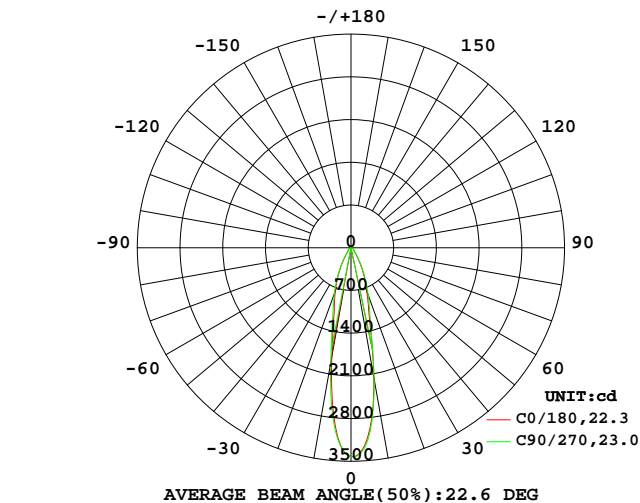


## LUMINAIRE PHOTOMETRIC TEST REPORT

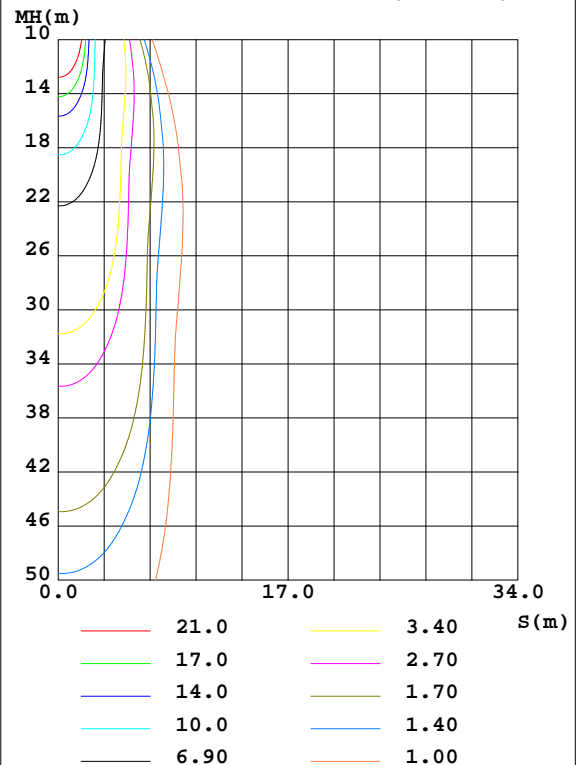
Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	SUR.:--	Shielding Angle:--

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.29 lm/W			
MODEL	IH-F8-48W	I <sub>max</sub> (cd)	3434	S/MH(C0/180)	0.36
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.37
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	1100.1	η UP,DN(C0-180)	0.0,51.7
NOMINAL FLUX(lm)	1100.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	12	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:Dinghao Lun  
Test Date:2019-10-11

Checker:

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity:57%  
Test Distance:1.658m [K=1.0000]  
Remarks:

Assessor:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2159	2362	2179	1887	1817	1920	1922	1937	0- 10	257.7	257.7	23.4, 23.4
20	765.0	930.4	829.4	712.5	754.7	895.6	797.9	706.7	10- 20	337.8	595.5	54.1, 54.1
30	310.6	337.6	323.3	300.0	292.4	301.1	293.9	296.8	20- 30	239.5	835.0	75.9, 75.9
40	103.0	106.0	102.8	97.29	91.11	89.91	93.12	99.60	30- 40	109.9	944.9	85.9, 85.9
50	62.49	66.75	63.29	60.18	55.77	58.43	56.69	60.19	40- 50	56.82	1002	91.1, 91.1
60	42.00	46.46	43.84	39.02	37.65	38.47	37.88	38.04	50- 60	45.50	1047	95.2, 95.2
70	26.80	28.45	27.97	23.52	21.13	19.46	20.03	22.83	60- 70	32.28	1079	98.1, 98.1
80	10.64	11.93	11.27	8.596	6.415	4.939	5.588	8.041	70- 80	16.62	1096	99.6, 99.6
90	0.7416	1.438	1.072	0.0031	0	0	0	0	80- 90	3.882	1100	100, 100
100	0	0	0	0	0	0	0	0	90-100	0.0551	1100	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	1100	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	1100	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	1100	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	1100	100, 100
150	0	0	0	0	0	0.0030	0.0017	0	140-150	0.0000	1100	100, 100
160	0.0443	0.0493	0.0449	0.0438	0.0593	0.0722	0.0727	0.0595	150-160	0.0097	1100	100, 100
170	0.1152	0.1097	0.1104	0.1205	0.1552	0.1604	0.1666	0.1651	160-170	0.0274	1100	100, 100
180	0	0	0	0	0	0	0	0	170-180	0.0110	1100	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 975.29 lm

%lum = 88.7%

%lamp = 88.7%

Conical surface Flux(120deg): 1047.2 lm

%lum = 95.2%

%lamp = 95.2%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Dinghao Lun  
 Test Date: 2019-10-11

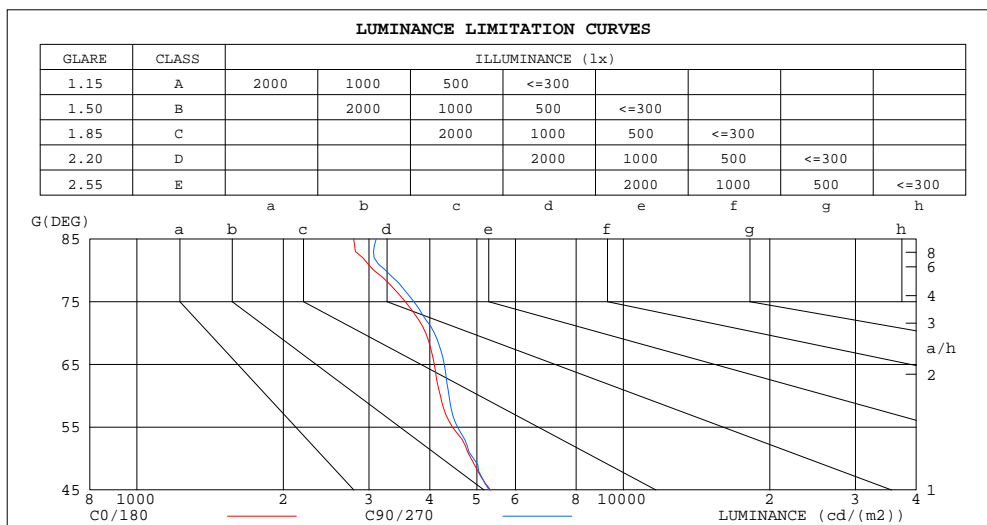
Checker:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
 Humidity: 57%  
 Test Distance: 1.658m [K=1.0000]  
 Remarks:

Assessor:

## LUMINANCE LIMITATION CURVES

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	SUR.:--	Shielding Angle:--



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2789	3103
80	3067	3244
75	3562	3711
70	3923	4087
65	4086	4282
60	4206	4383
55	4454	4562
50	4867	4922
45	5333	5302

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:Dinghao Lun  
Test Date:2019-10-11

Checker:

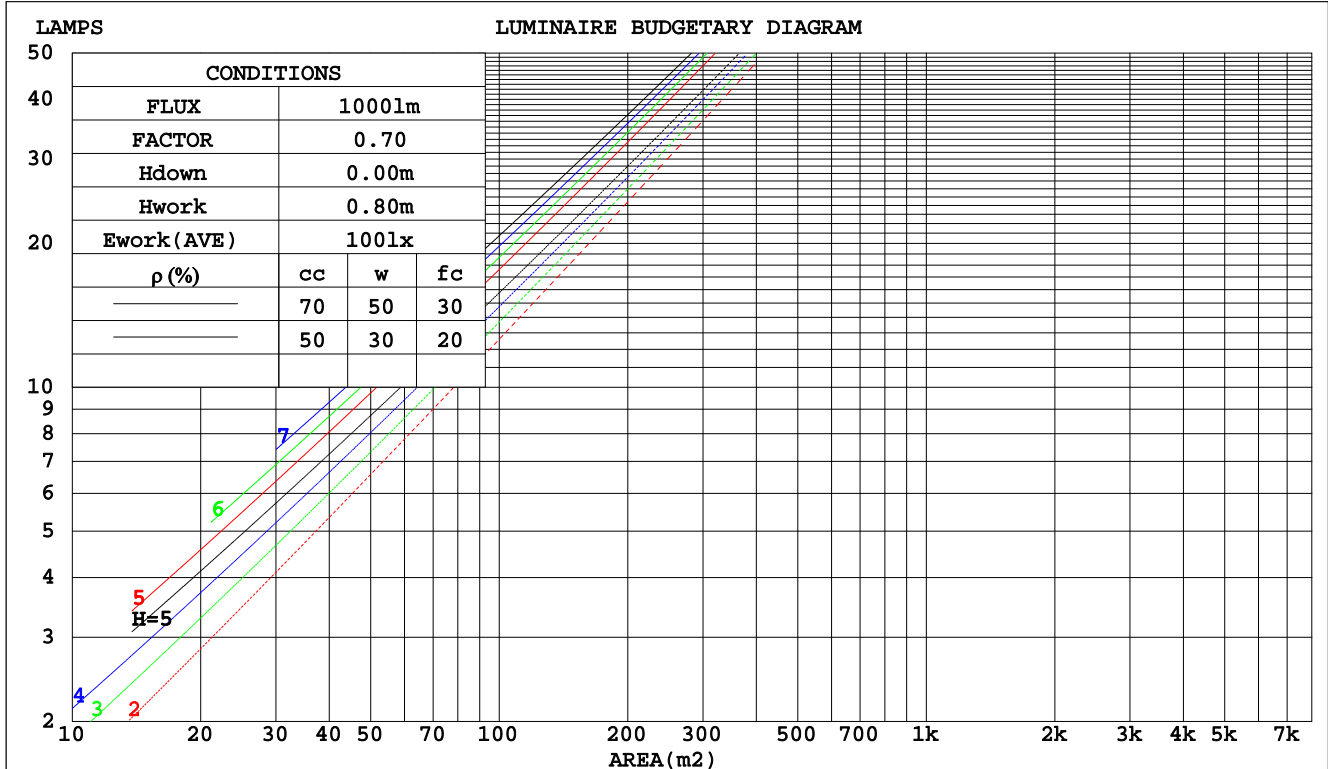
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity:57%  
Test Distance:1.658m [K=1.0000]  
Remarks:

Assessor:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	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	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.98	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.88	.95	.90	.87	.92	.89	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.81	.78	.74	.80	.77	.74	.72
6.0	.81	.76	.72	.81	.75	.72	.79	.75	.71	.78	.74	.71	.77	.73	.70	.69
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.74	.70	.67	.73	.70	.67	.66
8.0	.74	.69	.65	.74	.68	.65	.72	.68	.64	.71	.67	.64	.71	.67	.64	.63
9.0	.71	.66	.62	.70	.65	.62	.70	.65	.62	.69	.64	.61	.68	.64	.61	.60
10.0	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.58



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: Dinghao Lun  
Test Date: 2019-10-11

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity: 57%  
Test Distance: 1.658m [K=1.0000]  
Remarks:

Checker:

Assessor:

## WEC AND CCEC

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.183	.104	.033	.176	.100	.032	.163	.094	.030	.152	.088	.028	.141	.082	.026		
2.0	.172	.094	.029	.166	.092	.028	.156	.087	.027	.146	.082	.026	.137	.077	.024		
3.0	.161	.086	.026	.156	.084	.025	.147	.080	.024	.139	.076	.023	.131	.073	.022		
4.0	.151	.078	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021		
5.0	.141	.072	.021	.138	.071	.021	.131	.068	.020	.125	.066	.020	.119	.064	.019		
6.0	.133	.067	.019	.130	.066	.019	.124	.064	.019	.119	.062	.018	.114	.060	.018		
7.0	.126	.062	.018	.123	.061	.017	.118	.060	.017	.113	.058	.017	.109	.056	.017		
8.0	.119	.058	.016	.117	.058	.016	.112	.056	.016	.108	.055	.016	.104	.053	.016		
9.0	.113	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.100	.051	.015		
10.0	.108	.052	.014	.106	.051	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014		

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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.156	.133	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.060	.045	.045	.035	.026	.015	.011	.009	
5.0	.123	.087	.060	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.061	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.063	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.096	.058	.032	.083	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.054	.029	.079	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:Dinghao Lun  
Test Date:2019-10-11

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity:57%  
Test Distance:1.658m [K=1.0000]  
Remarks:

Checker:

Assessor:

UGR(Unified Glare Rating) Table

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm										
NAME: IH-F8-48W					TYPE:LED			WEIGHT:--		
SPEC.:--					DIM.: --			SERIAL No.:T191011050		
MFR.: 英鸿光电					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	14.2	15.1	14.4	15.2	15.4	14.4	15.3	14.6	15.4	15.6
3H	15.4	16.3	15.7	16.5	16.7	15.7	16.5	15.9	16.7	16.9
4H	15.9	16.7	16.2	17.0	17.2	16.2	16.9	16.4	17.2	17.4
6H	16.3	17.0	16.6	17.3	17.5	16.5	17.2	16.8	17.5	17.7
8H	16.4	17.1	16.7	17.4	17.6	16.6	17.3	16.9	17.6	17.8
12H	16.4	17.1	16.8	17.4	17.7	16.7	17.4	17.0	17.6	17.9
4H 2H	14.8	15.5	15.0	15.8	16.0	14.9	15.7	15.2	15.9	16.2
3H	16.2	16.9	16.5	17.2	17.4	16.4	17.1	16.7	17.4	17.6
4H	16.8	17.5	17.2	17.8	18.1	17.0	17.6	17.3	17.9	18.2
6H	17.3	17.8	17.7	18.2	18.5	17.4	18.0	17.8	18.3	18.7
8H	17.4	17.9	17.8	18.3	18.7	17.6	18.1	18.0	18.5	18.8
12H	17.5	18.0	17.9	18.4	18.8	17.7	18.2	18.1	18.6	19.0
8H 4H	17.1	17.6	17.5	17.9	18.3	17.2	17.7	17.6	18.1	18.5
6H	17.6	18.1	18.1	18.5	18.9	17.8	18.2	18.2	18.6	19.0
8H	17.9	18.2	18.3	18.7	19.1	18.0	18.4	18.5	18.8	19.3
12H	18.0	18.4	18.5	18.8	19.3	18.2	18.5	18.7	19.0	19.5
12H 4H	17.1	17.5	17.5	17.9	18.3	17.2	17.7	17.6	18.1	18.5
6H	17.7	18.1	18.1	18.5	18.9	17.8	18.2	18.3	18.6	19.1
8H	17.9	18.3	18.4	18.7	19.2	18.1	18.4	18.6	18.9	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.4				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.4				

CIE Pub.117, 1100 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 0.3$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:Dinghao Lun  
Test Date:2019-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity:57%  
Test Distance:1.658m [K=1.0000]  
Remarks:

Checker:

Assessor:

## UTILIZATION FACTORS TABLE

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	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	76	71	82	76	71	81	75	71	67
0.80	91	84	80	90	83	79	89	83	79	75
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	93	89	97	92	89	84
1.50	103	97	94	102	97	93	99	95	92	87
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	103	100	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	113	109	107	110	108	105	107	105	103	95
5.00	114	111	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:24.8DEG  
Operators:Dinghao Lun  
Test Date:2019-10-11

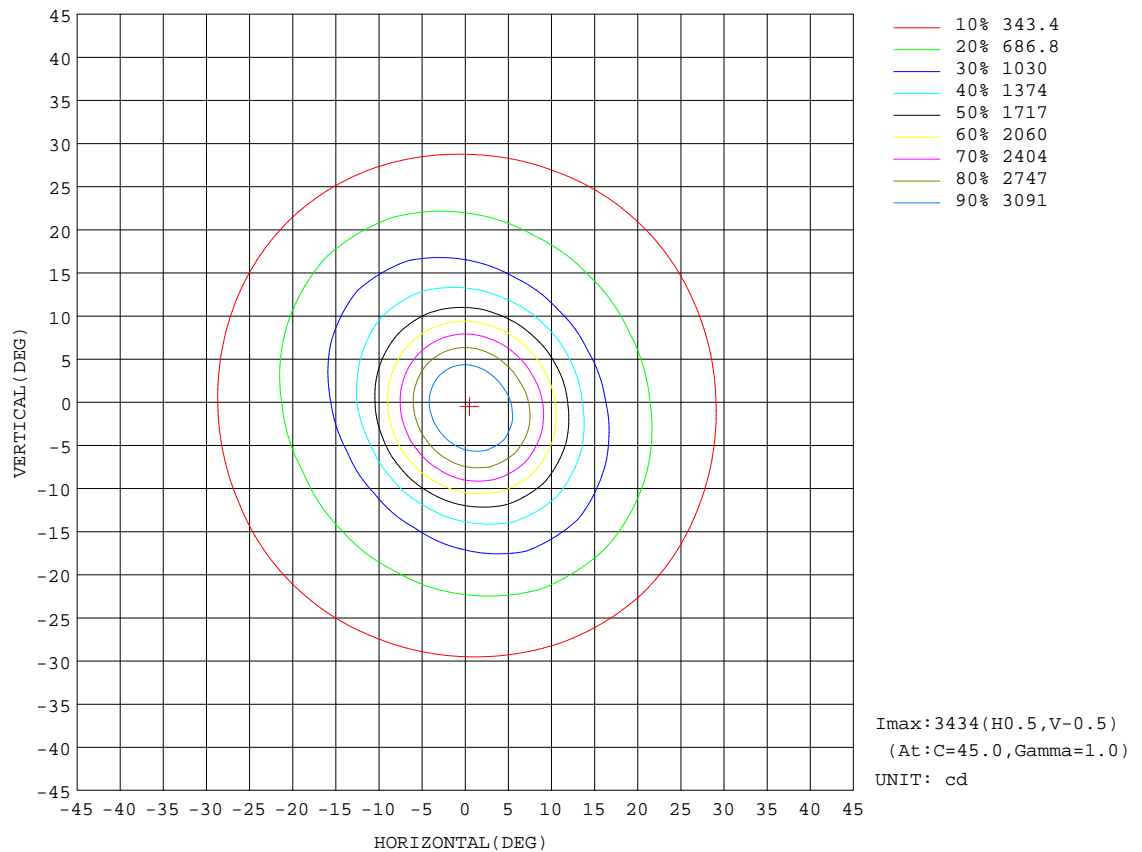
Checker:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity:57%  
Test Distance:1.658m [K=1.0000]  
Remarks:

Assessor:

## ISOCANDELA DIAGRAM

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	SUR.:--	Shielding Angle:--



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: Dinghao Lun  
Test Date: 2019-10-11

Checker:

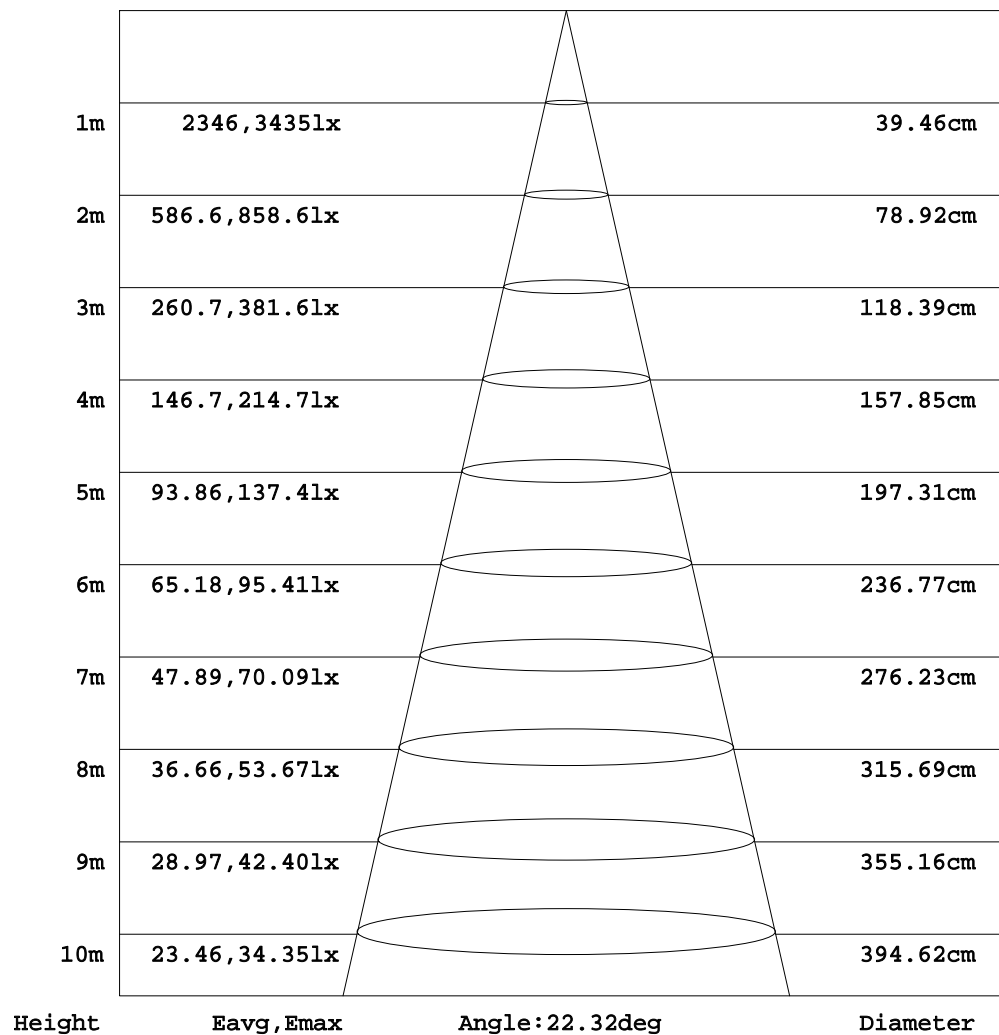
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity: 57%  
Test Distance: 1.658m [K=1.0000]  
Remarks:

Assessor:

## AAI Figure

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	SUR.:--	Shielding Angle:--

Flux out:333.0 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:24.8DEG  
 Operators:Dinghao Lun  
 Test Date:2019-10-11

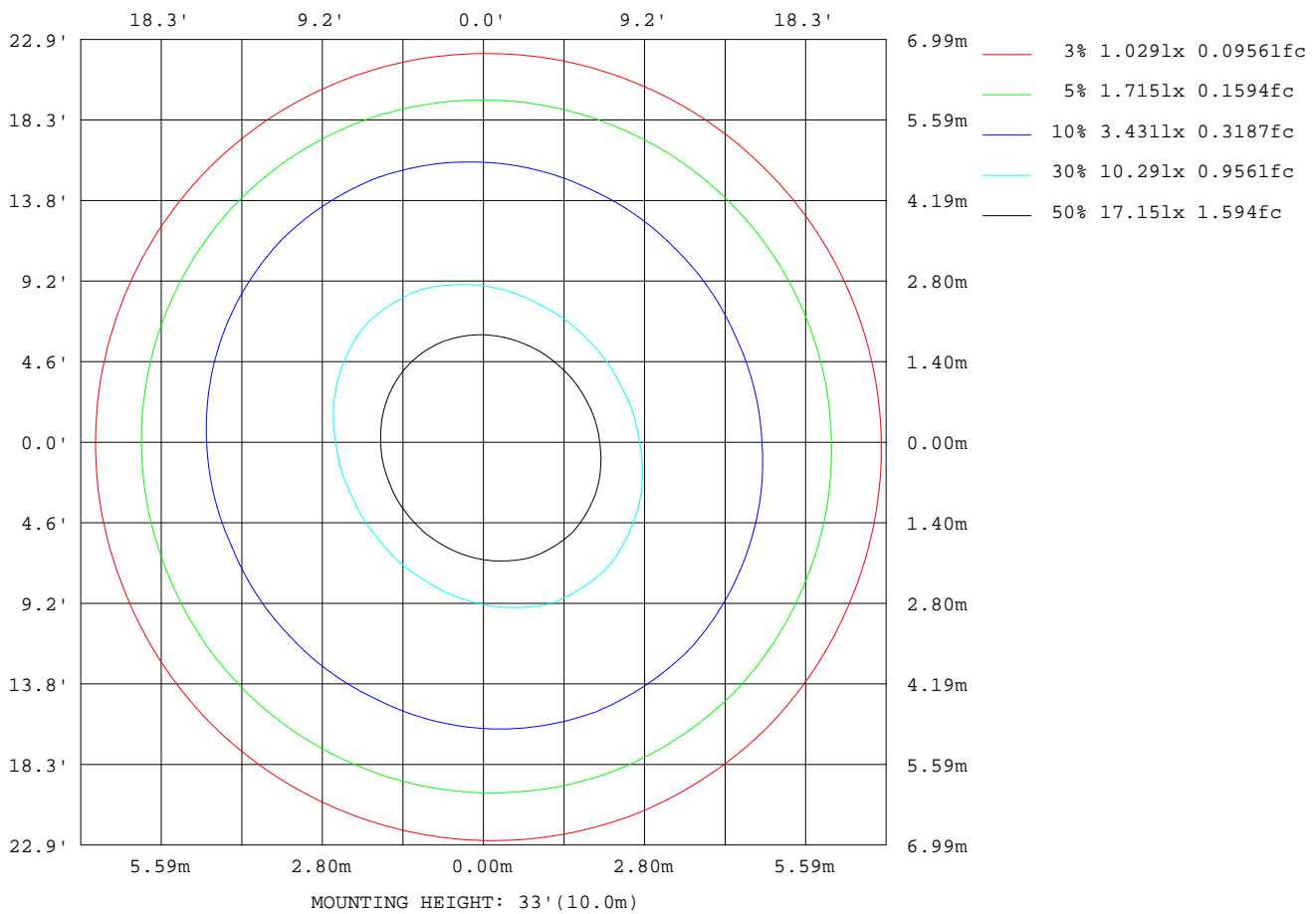
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
 Humidity:57%  
 Test Distance:1.658m [K=1.0000]  
 Remarks:

Checker:

Assessor:

## ISOLUX DIAGRAM

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	SUR.:--	Shielding Angle:--



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: Dinghao Lun  
Test Date: 2019-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity: 57%  
Test Distance: 1.658m [K=1.0000]  
Remarks:

Checker:

Assessor:

## LED Avg.L Report

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	SUR.:--	Shielding Angle:--

AvgL	cd/m2
L_0~180(65)av	3782
L_0~180(75)av	3041
L_0~180(85)av	1800
L_90~270(65)av	3851
L_90~270(75)av	3074
L_90~270(85)av	1834
L_45(65)av	3778
L_45(75)av	2994
L_45(85)av	1815

Standard: GB/T 29293-2012

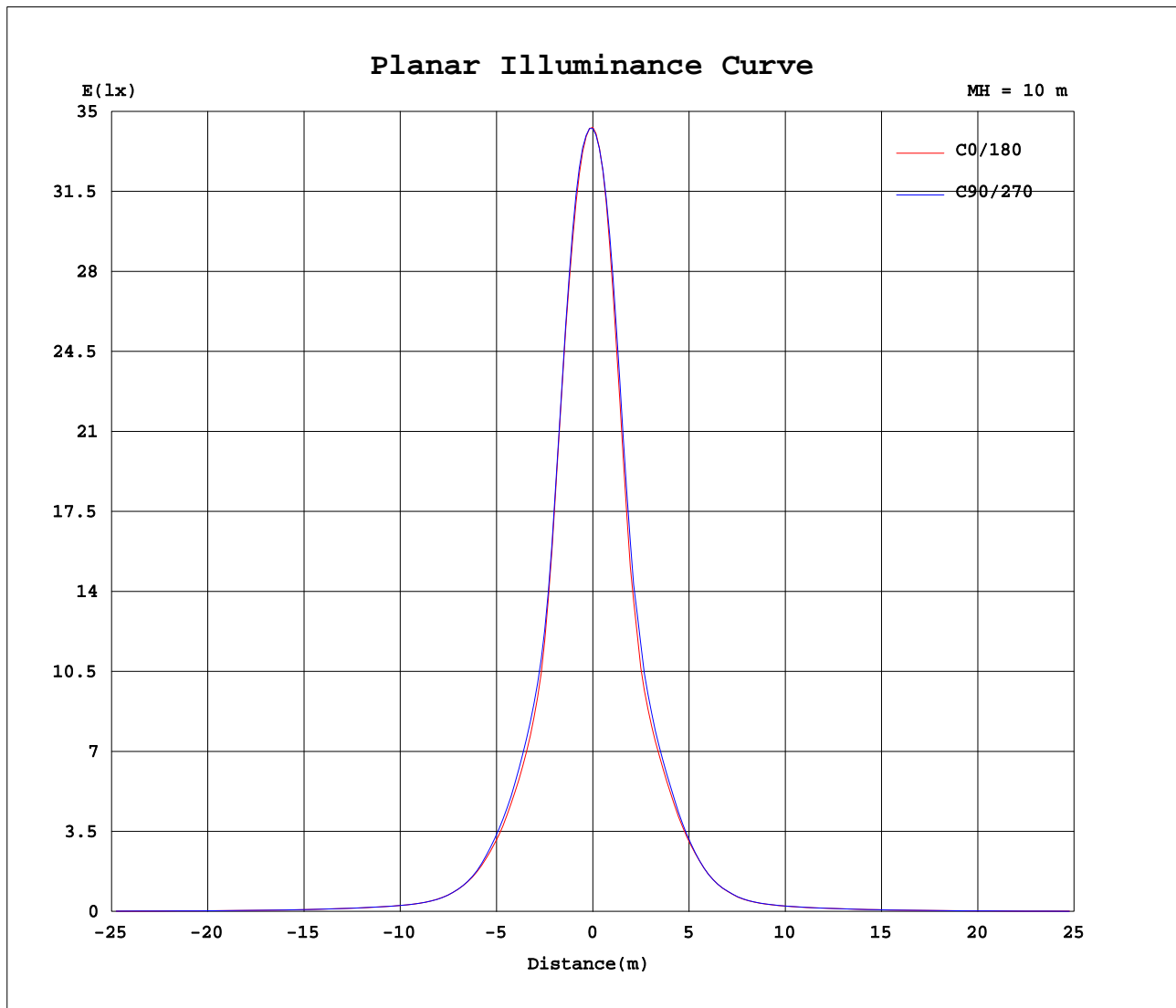
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:Dinghao Lun  
Test Date:2019-10-11

Checker:

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity:57%  
Test Distance:1.658m [K=1.0000]  
Remarks:

Assessor:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: Dinghao Lun  
Test Date: 2019-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.401  
Humidity: 57%  
Test Distance: 1.658m [K=1.0000]  
Remarks:

Checker:

Assessor:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.000V I:0.7497A P:8.9960W PF:1.0000 Freq:0Hz Lamp Flux:1100.1x1 lm		
NAME: IH-F8-48W	TYPE:LED	WEIGHT:--
SPEC.:--	DIM.: --	SERIAL No.:T191011050
MFR.: 英鸿光电	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	3426	3426	3426	3426	3426	3426	3426	3426	3426	3426	3426	3426	3426	3426	3426	3426			
5	3127	3203	3246	3228	3168	3078	3005	2960	2947	2961	2981	2994	2996	2992	3004	3049			
10	2159	2295	2362	2319	2179	2009	1887	1815	1817	1868	1920	1935	1922	1907	1937	2024			
15	1157	1307	1399	1365	1227	1091	1020	1014	1073	1172	1245	1238	1157	1075	1044	1066			
20	765	856	930	921	829	748	713	706	755	836	896	877	798	731	707	718			
25	503	549	583	585	543	502	483	476	497	530	559	552	516	486	476	481			
30	311	322	338	337	323	309	300	292	292	298	301	300	294	293	297	303			
35	177	180	185	183	177	170	165	159	160	159	160	160	162	164	167	172			
40	103	104	106	106	103	98.8	97.3	93.6	91.1	89.7	89.9	91.1	93.1	94.6	99.6	101			
45	75.3	76.9	77.1	77.4	75.0	72.2	71.2	69.4	66.9	65.8	65.6	66.5	68.0	69.2	72.0	74.2			
50	62.5	64.9	66.7	66.2	63.3	60.5	60.2	58.1	55.8	55.8	58.4	57.2	56.7	57.6	60.2	61.7			
55	51.0	54.4	56.6	57.5	52.3	50.9	49.5	48.7	46.0	48.0	49.8	50.6	46.8	48.1	49.4	52.2			
60	42.0	46.3	46.5	48.9	43.8	42.4	39.0	39.2	37.6	40.1	38.5	41.1	37.9	39.5	38.0	41.1			
65	34.5	38.0	37.8	39.9	36.2	33.9	31.7	31.7	29.4	29.2	27.8	30.4	28.9	30.4	30.5	33.0			
70	26.8	28.5	28.5	29.2	28.0	25.4	23.5	22.3	21.1	20.3	19.5	19.8	20.0	21.5	22.8	24.5			
75	18.4	19.8	19.9	19.6	19.2	17.4	15.5	14.0	13.1	12.3	11.6	11.6	12.6	13.7	15.0	16.3			
80	10.6	11.4	11.9	11.7	11.3	10.1	8.60	7.11	6.41	5.29	4.94	4.98	5.59	6.77	8.04	9.26			
85	4.86	5.57	5.94	5.84	5.41	4.45	3.41	2.27	1.42	0.73	0.48	0.55	0.98	1.82	2.82	3.87			
90	0.74	1.21	1.44	1.40	1.07	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26			
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	0.00	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			
130	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			
135	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			
140	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			
145	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			
150	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			
155	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02			
160	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.07	0.07	0.06	0.05			
165	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.12	0.11	0.13	0.13	0.13	0.13	0.12	0.11			
170	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.16	0.15	0.16	0.16	0.17	0.17	0.17	0.16			
175	0.10	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.11	0.11	0.11			
180	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			

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