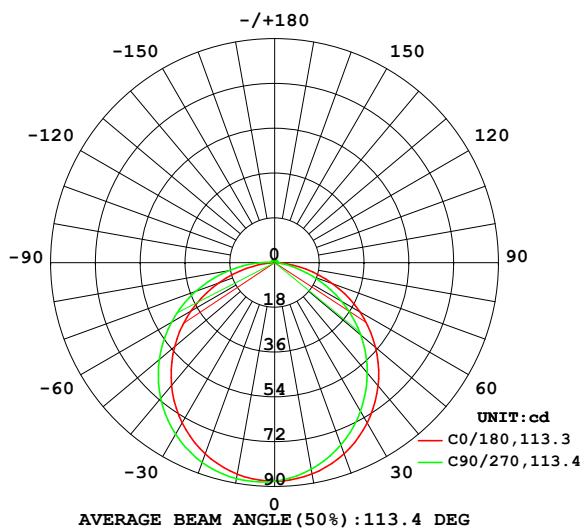


# LUMINAIRE PHOTOMETRIC TEST REPORT

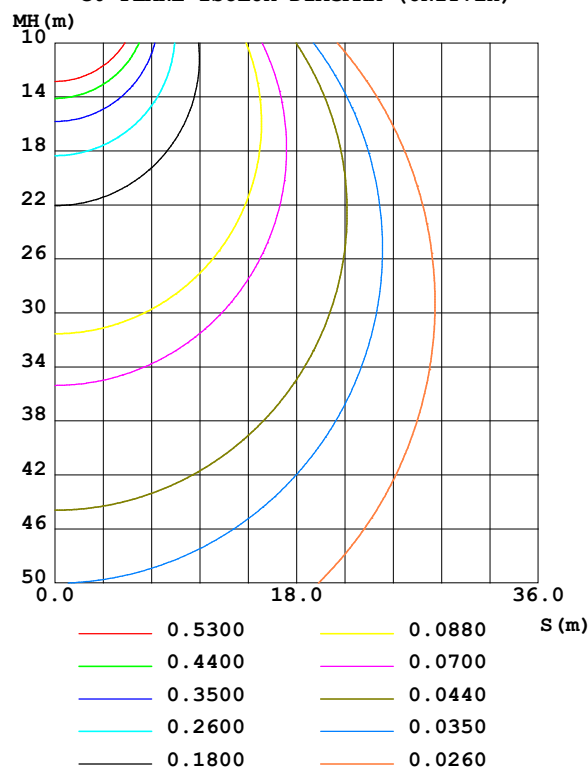
Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 24.64 lm/W			
MODEL		I <sub>max</sub> (cd)	88.39	S/MH(C0/180)	1.26
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	262.08	□ UP,DN(C0-180)	1.2,43.7
NOMINAL FLUX(lm)	1.09202	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.4,53.6
LAMPS INSIDE	240	□ up (%)	2.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	□ down (%)	97.4	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

□ Range: 0 - 180DEG  
□ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	zone	total	%lum, lamp
10	86.26	84.76	84.37	85.16	86.31	87.82	88.16	87.43	0- 10	8.309	8.309	3.17,3.17
20	81.71	78.80	77.97	79.50	81.74	84.70	85.38	84.05	10- 20	23.81	32.12	12.3,12.3
30	74.41	70.24	69.02	71.18	74.35	78.64	79.65	77.73	20- 30	36.13	68.25	26,26
40	64.70	59.46	57.96	60.57	64.46	69.87	71.23	68.87	30- 40	43.66	111.9	42.7,42.7
50	52.97	46.90	45.18	48.13	52.50	58.82	60.51	57.77	40- 50	45.48	157.4	60.1,60.1
60	39.55	32.91	31.12	34.22	38.82	45.87	47.91	44.83	50- 60	41.36	198.8	75.8,75.8
70	24.83	18.06	16.43	19.35	23.83	31.47	33.76	30.48	60- 70	31.81	230.6	88,88
80	10.07	4.985	4.245	5.814	8.959	16.29	18.74	15.49	70- 80	18.44	249.0	95,95
90	1.088	1.363	1.275	1.195	0.6143	3.621	5.517	3.332	80- 90	6.145	255.1	97.4,97.4
100	0.2240	1.255	1.170	1.078	0.2480	1.091	1.635	1.304	90-100	1.540	256.7	97.9,97.9
110	0.3957	1.203	1.123	1.052	0.3507	1.065	1.448	1.335	100-110	1.122	257.8	98.4,98.4
120	0.5674	1.160	1.054	0.9548	0.5081	0.9933	1.384	1.301	110-120	1.037	258.8	98.8,98.8
130	0.7176	1.201	1.030	0.9997	0.6536	0.9981	1.329	1.228	120-130	0.9192	259.8	99.1,99.1
140	0.8369	1.172	1.106	1.038	0.7728	0.9981	1.355	1.087	130-140	0.7973	260.6	99.4,99.4
150	0.9419	1.136	1.116	0.9619	0.8896	0.9503	1.246	0.9641	140-150	0.6435	261.2	99.7,99.7
160	1.049	1.133	1.116	1.042	1.009	0.9458	1.080	0.9951	150-160	0.4730	261.7	99.8,99.8
170	1.159	1.174	1.146	1.133	1.135	1.065	1.052	1.090	160-170	0.3031	262.0	100,100
180	1.238	1.213	1.199	1.213	1.235	1.213	1.199	1.211	170-180	0.1102	262.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 139.37 lm

%lum = 53.2%

%lamp = 53.2%

Conical surface Flux(120deg): 198.75 lm

%lum = 75.8%

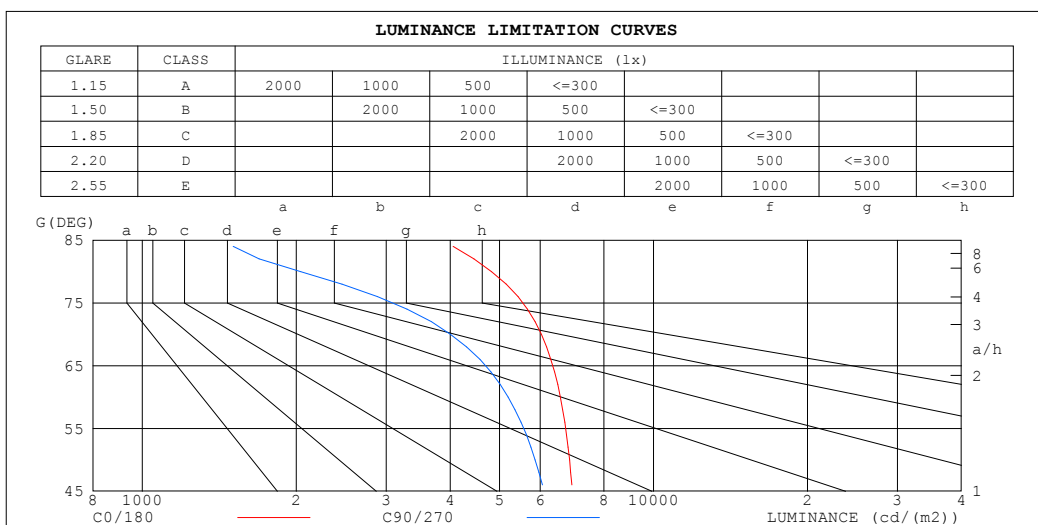
%lamp = 75.8%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

□ Range: 0 - 180DEG  
□ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4862	1806
80	4819	2041
75	6033	3511
70	6033	4010
65	6645	4987
60	6573	5197
55	6924	5778
50	6848	5869
45	7077	6261

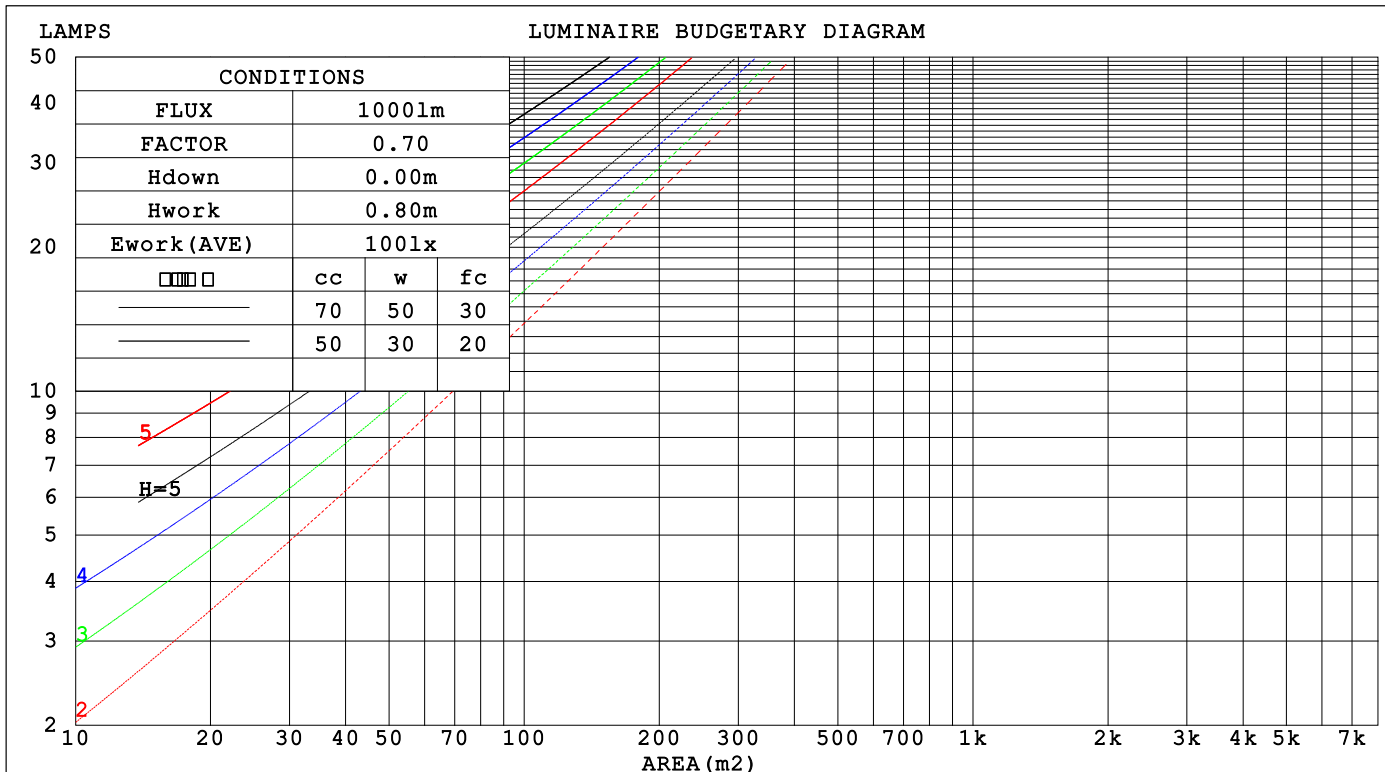
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□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	1.10	1.10	1.10	1.04	1.04	1.04	.00	.00	.00	.97
1.0	1.03	.99	.95	1.00	.96	.93	.96	.92	.89	.91	.89	.86	.87	.85	.83	.81
2.0	.90	.83	.77	.87	.81	.76	.83	.78	.73	.80	.75	.71	.76	.73	.69	.67
3.0	.78	.70	.64	.77	.69	.63	.73	.67	.61	.70	.65	.60	.67	.63	.59	.56
4.0	.69	.61	.54	.68	.60	.53	.65	.58	.52	.62	.56	.51	.60	.55	.50	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.49	.44	.54	.48	.44	.41
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.34	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.25
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

□ Range: 0 - 180DEG  
□ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Wall Exitance Coefficients(WEC)
0.0						
1.0	.315 .179 .057	.307 .175 .056	.293 .168 .054	.279 .161 .052	.267 .155 .050	
2.0	.294 .161 .050	.287 .158 .049	.274 .153 .047	.262 .147 .046	.251 .142 .045	
3.0	.272 .145 .043	.265 .142 .043	.254 .137 .042	.243 .133 .041	.233 .129 .040	
4.0	.250 .130 .038	.245 .128 .038	.234 .124 .037	.225 .121 .036	.216 .117 .036	
5.0	.231 .118 .034	.226 .116 .034	.217 .113 .033	.208 .110 .033	.200 .107 .032	
6.0	.214 .107 .031	.210 .106 .030	.201 .103 .030	.193 .101 .030	.186 .098 .029	
7.0	.199 .098 .028	.195 .097 .028	.188 .095 .027	.181 .093 .027	.174 .090 .027	
8.0	.186 .091 .026	.182 .090 .025	.175 .088 .025	.169 .086 .025	.163 .084 .024	
9.0	.174 .084 .024	.171 .083 .023	.165 .081 .023	.159 .080 .023	.154 .078 .023	
10.0	.164 .078 .022	.161 .078 .022	.155 .076 .021	.150 .074 .021	.145 .073 .021	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Ceiling Cavity Exitance Coefficients(CCEC)
0.0	.211 .211 .211	.180 .180 .180	.123 .123 .123	.071 .071 .071	.023 .023 .023	
1.0	.201 .176 .154	.172 .151 .133	.118 .104 .092	.068 .060 .053	.022 .019 .017	
2.0	.193 .152 .118	.165 .131 .102	.113 .091 .071	.065 .053 .042	.021 .017 .014	
3.0	.185 .135 .095	.159 .116 .082	.109 .081 .058	.063 .047 .034	.020 .015 .011	
4.0	.178 .122 .079	.153 .105 .069	.105 .073 .048	.061 .043 .029	.020 .014 .009	
5.0	.170 .111 .068	.146 .096 .059	.101 .067 .042	.058 .040 .025	.019 .013 .008	
6.0	.163 .103 .060	.140 .089 .052	.097 .062 .037	.056 .037 .022	.018 .012 .007	
7.0	.156 .096 .054	.135 .083 .047	.093 .058 .033	.054 .034 .020	.017 .011 .007	
8.0	.150 .090 .050	.129 .078 .043	.089 .055 .031	.052 .032 .018	.017 .011 .006	
9.0	.144 .086 .046	.124 .074 .040	.086 .052 .029	.050 .031 .017	.016 .010 .006	
10.0	.138 .081 .043	.119 .071 .038	.083 .050 .027	.048 .029 .016	.016 .010 .005	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm											
NAME: NS-TW1220-2200+6000K						TYPE:		WEIGHT:			
SPEC.:						DIM.: 1*0.012*0.02MM		SERIAL No.:			
MFR.:						SUR.: 0.012*1		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		23.6	25.1	23.9	25.3	25.6	22.7	24.2	23.0	24.5	24.7
3H		25.1	26.5	25.4	26.8	27.1	23.8	25.2	24.2	25.5	25.8
4H		25.7	27.0	26.1	27.3	27.6	24.1	25.4	24.5	25.7	26.0
6H		26.1	27.3	26.5	27.7	28.0	24.2	25.4	24.6	25.8	26.1
8H		26.2	27.4	26.6	27.7	28.1	24.2	25.4	24.6	25.7	26.1
12H		26.3	27.4	26.6	27.7	28.1	24.2	25.3	24.6	25.7	26.0
4H 2H		24.0	25.3	24.3	25.6	25.9	23.3	24.6	23.6	24.9	25.2
3H		25.6	26.8	26.0	27.1	27.5	24.5	25.7	24.9	26.0	26.4
4H		26.3	27.4	26.7	27.7	28.1	24.9	25.9	25.3	26.3	26.7
6H		26.8	27.7	27.3	28.1	28.6	25.0	26.0	25.5	26.4	26.8
8H		27.0	27.8	27.4	28.2	28.7	25.1	25.9	25.5	26.3	26.8
12H		27.0	27.8	27.5	28.3	28.7	25.1	25.8	25.5	26.3	26.7
8H 4H		26.4	27.3	26.8	27.7	28.1	25.1	25.9	25.5	26.3	26.8
6H		26.9	27.7	27.4	28.1	28.6	25.3	26.0	25.8	26.5	26.9
8H		27.1	27.8	27.6	28.2	28.8	25.3	26.0	25.8	26.4	26.9
12H		27.3	27.8	27.8	28.3	28.8	25.3	25.9	25.9	26.4	26.9
12H 4H		26.4	27.1	26.8	27.6	28.0	25.1	25.9	25.5	26.3	26.7
6H		26.9	27.6	27.4	28.0	28.5	25.3	25.9	25.8	26.4	26.9
8H		27.1	27.7	27.6	28.2	28.7	25.3	25.9	25.9	26.4	26.9
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H		+ 0.1 / - 0.2					+ 0.2 / - 0.4				
2.0H		+ 0.4 / - 0.5					+ 0.4 / - 0.4				

CIE Pub.117, 262.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.7)  
Area: 0.012 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:

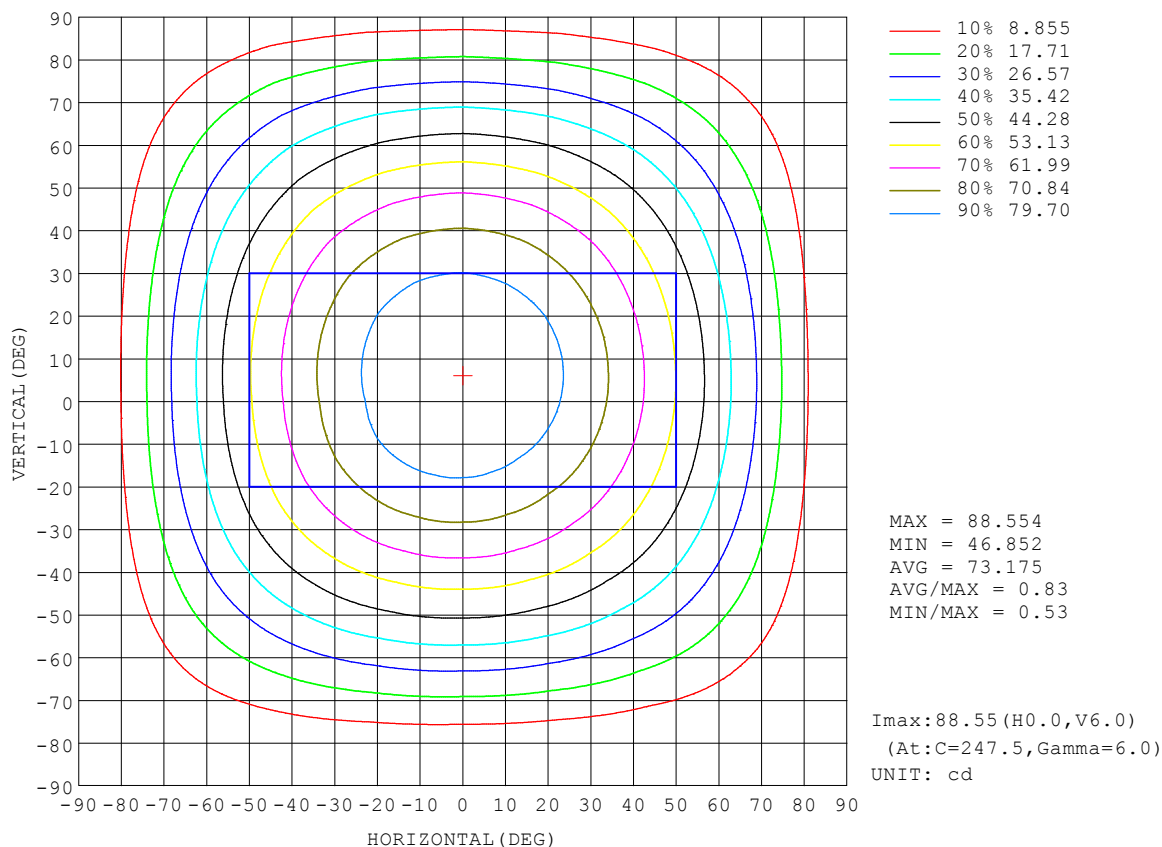
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	54	44	37	31
0.80	66	55	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	48
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	85	75
4.00	105	99	94	103	97	93	98	94	90	80
5.00	108	103	98	105	100	97	100	96	93	83
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: 25.3DEG  
Operators: YSL  
Test Date: 2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 5.749m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:



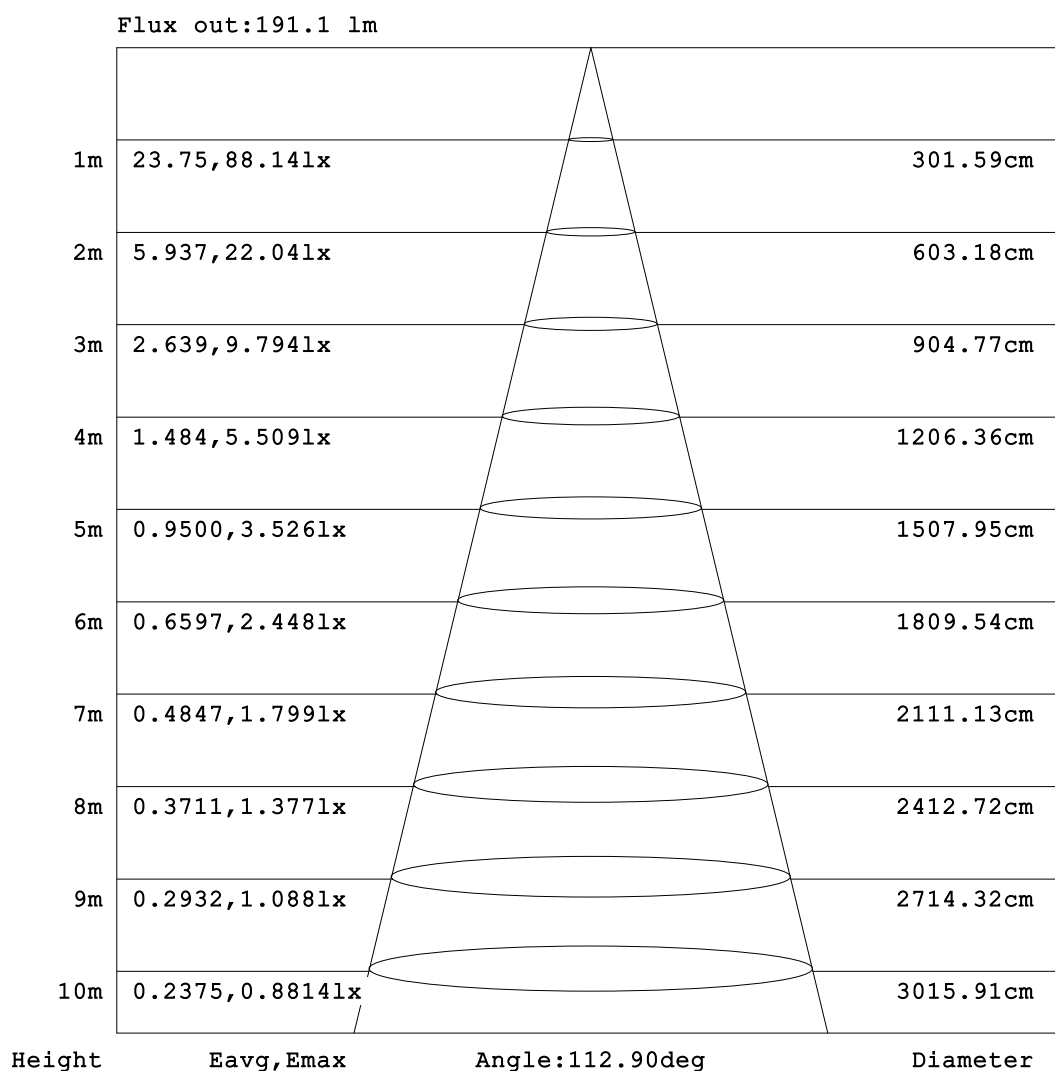
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:



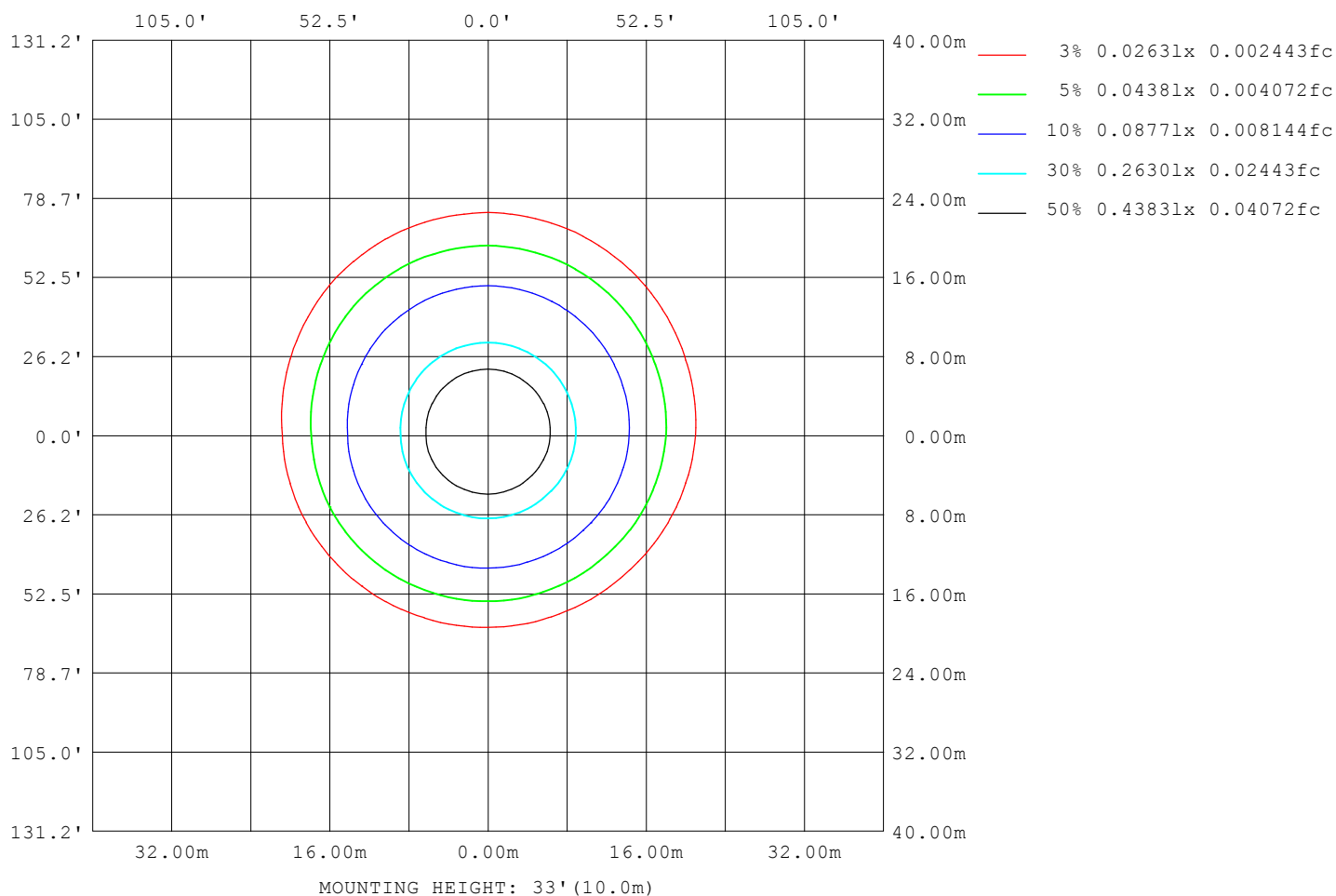
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:

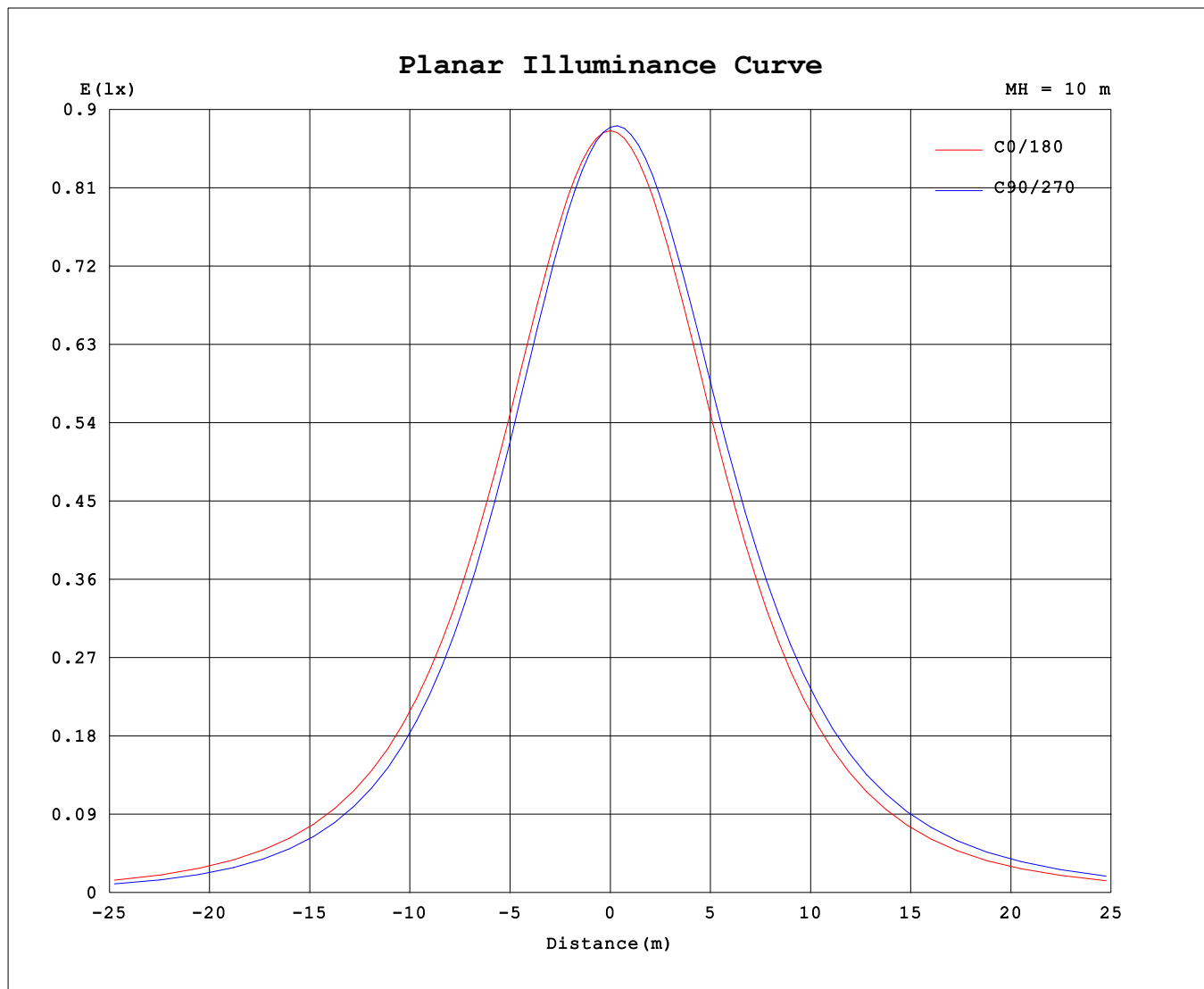
AvgL	cd/m2
L_0~180 (65) av	6287
L_0~180 (75) av	5391
L_0~180 (85) av	3417
L_90~270 (65) av	6385
L_90~270 (75) av	5777
L_90~270 (85) av	6283
L_45 (65) av	6359
L_45 (75) av	5628
L_45 (85) av	5135

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YSL  
Test Date:2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YSL  
 Test Date: 2021-07-12

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
 Humidity: 65.0%  
 Test Distance: 5.749m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.4433A P:10.638W PF:1.0000 Freq:0Hz Lamp Flux:1.09202x240 lm		
NAME: NS-TW1220-2200+6000K	TYPE:	WEIGHT:
SPEC.:	DIM.: 1*0.012*0.02MM	SERIAL No.:
MFR.:	SUR.: 0.012*1	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (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	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8			
5	87.6	87.2	87.0	86.8	86.8	86.9	87.1	87.4	87.6	87.9	88.2	88.3	88.3	88.2	88.0	87.8			
10	86.3	85.5	84.8	84.4	84.4	84.6	85.2	85.8	86.3	87.1	87.8	88.1	88.2	87.9	87.4	86.8			
15	84.8	83.7	82.7	82.2	82.1	82.5	83.2	84.1	84.8	86.0	86.9	87.4	87.4	87.1	86.4	85.6			
20	81.7	80.2	78.8	78.1	78.0	78.5	79.5	80.7	81.7	83.3	84.7	85.3	85.4	85.0	84.0	82.8			
25	79.1	77.3	75.7	74.8	74.7	75.3	76.5	77.9	79.1	81.0	82.6	83.4	83.4	82.9	81.9	80.4			
30	74.4	72.2	70.2	69.2	69.0	69.7	71.2	72.9	74.3	76.6	78.6	79.6	79.7	79.0	77.7	76.0			
35	70.8	68.4	66.2	65.0	64.8	65.5	67.2	69.0	70.7	73.1	75.4	76.5	76.6	76.0	74.4	72.5			
40	64.7	62.0	59.5	58.2	58.0	58.7	60.6	62.7	64.5	67.3	69.9	71.1	71.2	70.5	68.9	66.7			
45	60.2	57.3	54.6	53.3	53.0	53.9	55.8	58.0	59.9	62.9	65.7	67.0	67.2	66.4	64.8	62.3			
50	53.0	49.8	46.9	45.5	45.2	46.1	48.1	50.5	52.5	55.8	58.8	60.3	60.5	59.7	57.8	55.1			
55	47.8	44.5	41.5	40.0	39.7	40.6	42.7	45.2	47.2	50.6	53.8	55.4	55.7	54.8	52.8	50.0			
60	39.5	36.0	32.9	31.4	31.1	32.0	34.2	36.7	38.8	42.4	45.9	47.6	47.9	47.0	44.8	42.0			
65	33.8	30.2	27.0	25.5	25.2	26.2	28.3	30.8	33.0	36.7	40.3	42.0	42.4	41.4	39.2	36.2			
70	24.8	21.1	18.1	16.6	16.4	17.3	19.3	21.8	23.8	27.7	31.5	33.3	33.8	32.7	30.5	27.3			
75	18.8	15.2	12.3	11.0	10.9	11.6	13.5	15.7	17.7	21.5	25.4	27.3	27.8	26.8	24.5	21.2			
80	10.1	7.00	4.99	4.30	4.24	4.68	5.81	7.39	8.96	12.5	16.3	18.2	18.7	17.8	15.5	12.3			
85	5.10	3.02	2.14	1.93	1.89	2.08	2.46	3.12	4.09	7.02	10.5	12.4	12.9	12.0	9.84	6.89			
90	1.09	1.31	1.36	1.34	1.27	1.29	1.19	0.95	0.61	1.50	3.62	5.10	5.52	4.94	3.33	1.71			
95	0.30	1.25	1.30	1.28	1.22	1.23	1.13	0.89	0.34	0.80	1.58	2.47	2.74	2.44	1.65	1.19			
100	0.22	1.23	1.26	1.22	1.17	1.17	1.08	0.87	0.25	0.74	1.09	1.50	1.64	1.51	1.30	1.14			
105	0.29	1.19	1.24	1.21	1.14	1.15	1.02	0.88	0.26	0.69	1.04	1.42	1.53	1.47	1.30	1.11			
110	0.40	1.21	1.20	1.19	1.12	1.13	1.05	0.86	0.35	0.66	1.06	1.33	1.45	1.44	1.33	1.03			
115	0.46	1.20	1.14	1.18	1.12	1.13	1.05	0.89	0.41	0.69	1.07	1.30	1.42	1.42	1.34	0.97			
120	0.57	1.16	1.16	1.07	1.05	1.10	0.95	0.92	0.51	0.73	0.99	1.26	1.38	1.39	1.30	0.90			
125	0.63	1.12	1.18	1.08	1.01	1.08	0.98	0.94	0.57	0.71	0.98	1.27	1.36	1.37	1.27	0.82			
130	0.72	1.07	1.20	1.12	1.03	1.05	1.00	0.97	0.65	0.75	1.00	1.22	1.33	1.33	1.23	0.76			
135	0.77	1.04	1.19	1.15	1.06	1.00	1.02	0.97	0.71	0.77	1.00	1.17	1.35	1.32	1.20	0.78			
140	0.84	1.04	1.17	1.16	1.11	1.03	1.04	0.85	0.77	0.77	1.00	1.14	1.36	1.30	1.09	0.81			
145	0.88	1.04	1.16	1.15	1.11	1.04	1.04	0.86	0.82	0.78	0.99	1.12	1.32	1.27	0.99	0.84			
150	0.94	1.05	1.14	1.14	1.12	1.02	0.96	0.93	0.89	0.83	0.95	1.08	1.25	1.07	0.96	0.90			
155	0.99	1.07	1.13	1.13	1.12	1.03	0.98	0.98	0.93	0.88	0.92	1.04	1.19	1.03	0.96	0.94			
160	1.05	1.10	1.13	1.12	1.12	1.05	1.04	1.04	1.01	0.96	0.95	0.97	1.08	0.99	1.00	1.00			
165	1.09	1.13	1.14	1.13	1.13	1.07	1.08	1.08	1.06	1.01	0.99	0.97	1.05	1.01	1.03	1.05			
170	1.16	1.18	1.17	1.16	1.15	1.13	1.13	1.14	1.14	1.10	1.06	1.05	1.05	1.06	1.09	1.12			
175	1.20	1.21	1.20	1.19	1.18	1.17	1.17	1.18	1.18	1.15	1.12	1.11	1.11	1.11	1.14	1.17			
180	1.24	1.23	1.21	1.20	1.20	1.19	1.21	1.23	1.24	1.23	1.21	1.20	1.20	1.19	1.21	1.23			

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