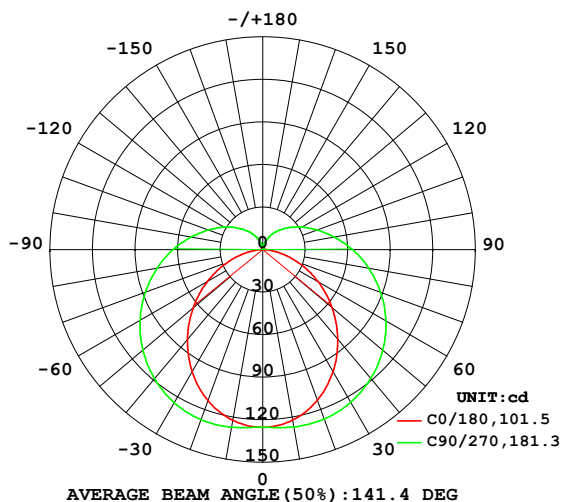


**LUMINAIRE PHOTOMETRIC TEST REPORT**

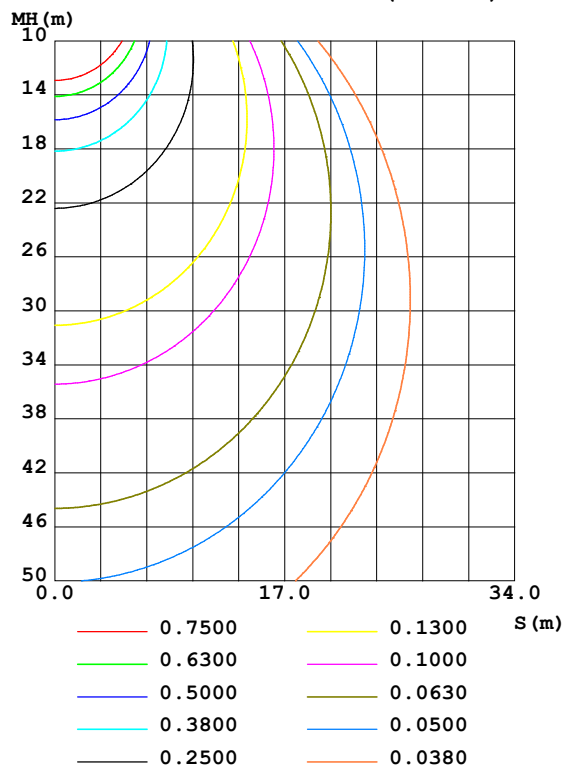
Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CRI:90 LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 31.19 lm/W			
MODEL	DPAL 60 3000K	I <sub>max</sub> (cd)	127.8	S/MH(C0/180)	1.19
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	611.99	η UP,DN(C0-180)	9.7,40.3
NOMINAL FLUX(lm)	611.995	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.7,40.3
LAMPS INSIDE	1	η up(%)	19.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	80.6	CIBSE SHR MAX	1.55

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:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [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	122.1	124.9	127.0	124.9	122.2	125.0	127.1	125.0	0- 10	11.94	11.94	1.95,1.95
20	113.0	121.2	127.1	121.2	113.3	121.6	127.6	121.7	10- 20	34.85	46.80	7.65,7.65
30	99.28	114.0	124.3	114.1	99.55	114.6	124.8	114.7	20- 30	54.23	101.0	16.5,16.5
40	82.39	103.9	118.6	104.0	82.69	104.4	118.8	104.5	30- 40	67.81	168.8	27.6,27.6
50	63.90	91.93	110.5	92.04	64.16	92.16	110.3	92.34	40- 50	74.54	243.4	39.8,39.8
60	44.96	79.01	100.3	79.18	45.16	79.04	99.89	79.25	50- 60	74.51	317.9	51.9,51.9
70	26.45	66.08	88.50	66.30	26.56	66.06	88.09	66.29	60- 70	68.72	386.6	63.2,63.2
80	10.12	53.97	75.87	54.23	10.11	54.16	75.65	54.40	70- 80	58.98	445.6	72.8,72.8
90	1.257	43.45	63.42	43.67	0.8973	43.92	63.48	44.17	80- 90	47.91	493.5	80.6,80.6
100	0.3076	34.15	51.31	34.30	0.3077	34.41	51.31	34.75	90-100	37.79	531.3	86.8,86.8
110	0.3625	26.61	40.81	25.53	0.3809	25.88	40.82	27.16	100-110	28.74	560.0	91.5,91.5
120	0.4724	20.59	31.85	18.82	0.4578	18.09	31.83	20.96	110-120	20.89	580.9	94.9,94.9
130	0.5823	15.71	24.28	12.31	0.5421	11.75	23.85	15.91	120-130	14.15	595.1	97.2,97.2
140	0.6848	11.58	17.84	7.650	0.6227	8.085	17.12	11.54	130-140	8.878	603.9	98.7,98.7
150	0.7617	7.443	12.14	5.042	0.6995	5.056	11.50	7.824	140-150	4.865	608.8	99.5,99.5
160	0.8204	4.098	6.427	3.161	0.7876	3.067	6.956	4.407	150-160	2.278	611.1	99.9,99.9
170	0.8826	2.151	1.920	1.944	0.8607	1.815	1.867	2.020	160-170	0.7769	611.9	100,100
180	0.8790	0.9117	0.8290	0.9662	0.8790	0.8751	0.8217	0.9442	170-180	0.1311	612.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 205.71 lm

%lum = 33.6%

%lamp = 33.6%

Conical surface Flux(120deg): 317.89 lm

%lum = 51.9%

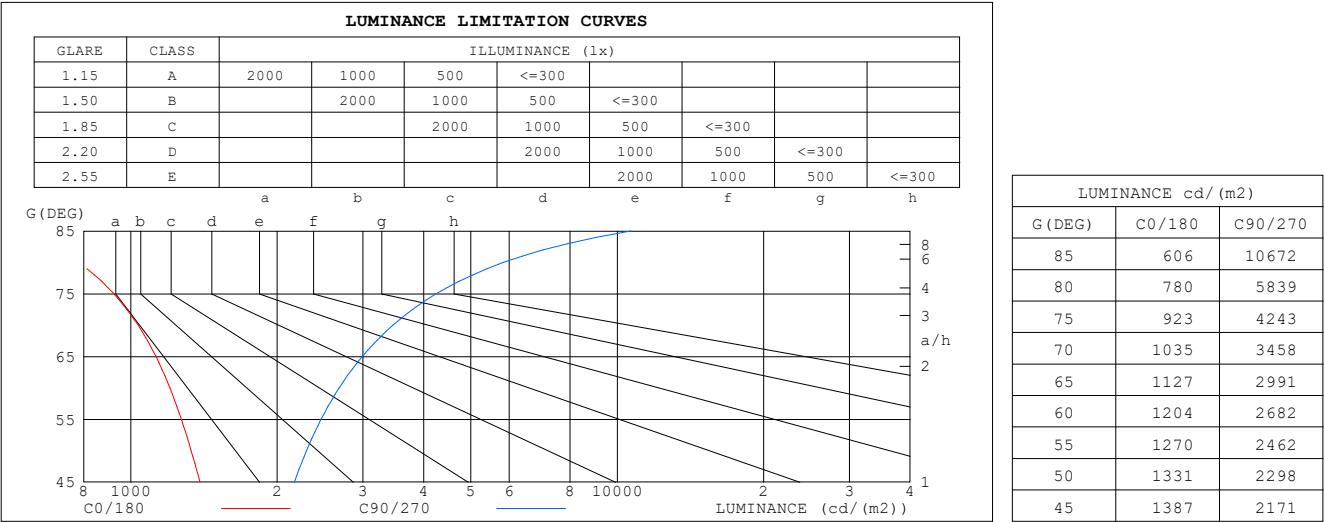
%lamp = 51.9%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CR100:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



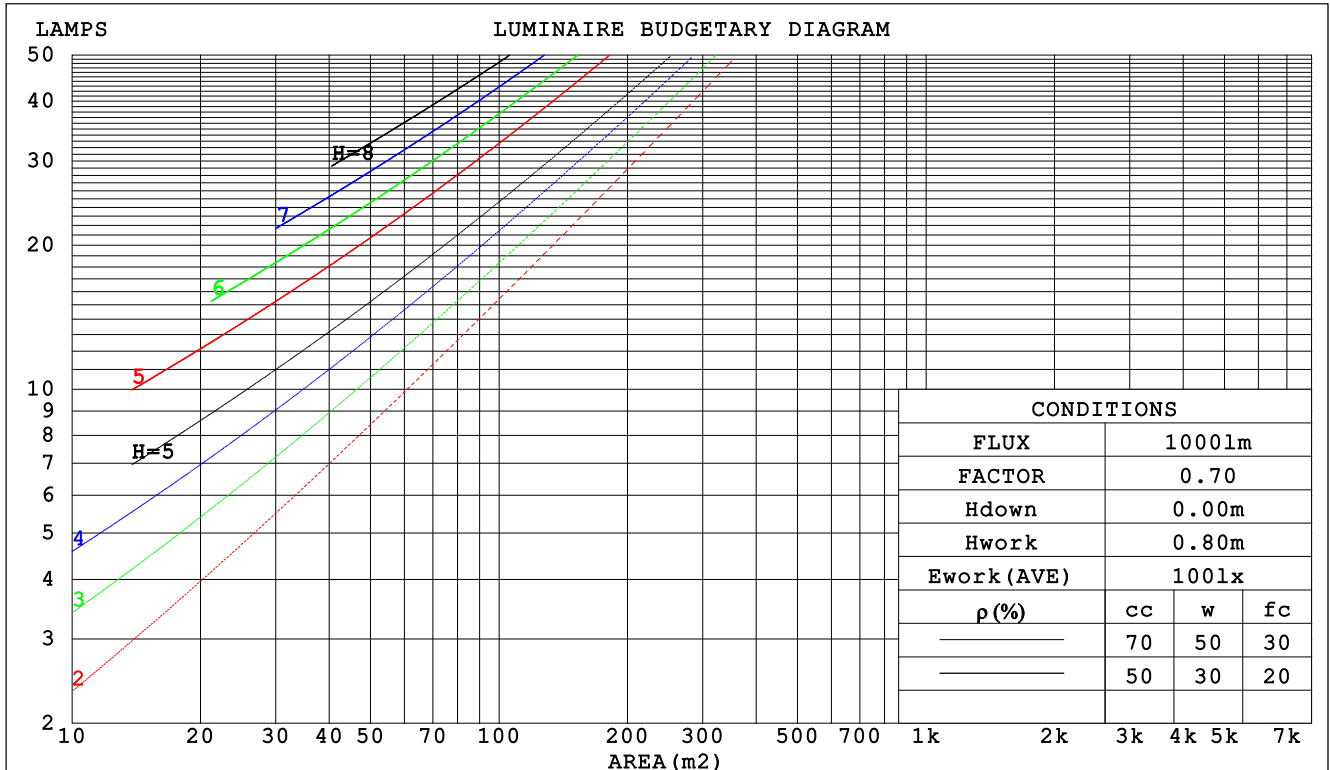
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K CR100:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	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			Coefficients of Utilization(CU)												
0.0	1.14	1.14	1.14	1.10	1.10	1.10	1.00	1.00	1.00	.92	.92	.92	.84	.84	.84	.81
1.0	.95	.90	.85	.91	.86	.82	.83	.79	.75	.76	.73	.70	.69	.66	.64	.61
2.0	.81	.73	.67	.78	.70	.64	.71	.65	.60	.65	.60	.56	.59	.55	.52	.48
3.0	.70	.61	.54	.67	.59	.52	.61	.55	.49	.56	.50	.46	.51	.46	.42	.39
4.0	.62	.52	.45	.59	.50	.44	.54	.47	.41	.49	.43	.38	.45	.40	.36	.33
5.0	.55	.45	.38	.52	.44	.37	.48	.41	.35	.44	.38	.33	.40	.35	.31	.28
6.0	.49	.40	.33	.47	.38	.32	.43	.36	.30	.40	.33	.28	.36	.31	.27	.24
7.0	.44	.35	.29	.42	.34	.28	.39	.32	.26	.36	.30	.25	.33	.28	.23	.21
8.0	.40	.31	.25	.39	.30	.25	.36	.28	.23	.33	.27	.22	.30	.25	.21	.19
9.0	.37	.28	.23	.35	.27	.22	.33	.26	.21	.30	.24	.20	.28	.23	.19	.17
10.0	.34	.26	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.26	.21	.17	.15



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CR1000:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	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	.390	.222	.070	.377	.215	.068	.352	.202	.064	.329	.190	.061	.309	.179	.058		
2.0	.336	.184	.056	.324	.178	.055	.302	.168	.052	.281	.158	.049	.262	.148	.047		
3.0	.298	.158	.047	.287	.154	.046	.267	.145	.044	.248	.136	.042	.231	.128	.040		
4.0	.268	.139	.041	.258	.135	.040	.240	.127	.038	.223	.120	.036	.207	.112	.034		
5.0	.243	.124	.036	.234	.120	.035	.218	.113	.033	.202	.107	.032	.188	.100	.030		
6.0	.222	.112	.032	.214	.108	.031	.199	.102	.030	.185	.096	.028	.172	.090	.027		
7.0	.205	.101	.029	.198	.099	.028	.184	.093	.027	.171	.088	.025	.159	.082	.024		
8.0	.190	.093	.026	.183	.090	.026	.171	.085	.024	.159	.080	.023	.147	.076	.022		
9.0	.177	.086	.024	.171	.083	.023	.159	.079	.022	.148	.074	.021	.138	.070	.020		
10.0	.166	.079	.022	.160	.077	.022	.149	.073	.021	.139	.069	.020	.129	.065	.019		

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	.338	.338	.338	.289	.289	.289	.197	.197	.197	.113	.113	.113	.036	.036	.036	
1.0	.335	.304	.277	.286	.261	.238	.196	.180	.165	.113	.104	.096	.036	.033	.031	
2.0	.328	.281	.242	.281	.242	.210	.192	.168	.146	.111	.098	.086	.036	.032	.028	
3.0	.320	.265	.221	.275	.229	.192	.189	.159	.134	.109	.093	.079	.035	.030	.026	
4.0	.313	.253	.207	.268	.218	.180	.184	.152	.127	.107	.089	.075	.034	.029	.025	
5.0	.305	.243	.197	.262	.210	.171	.180	.147	.121	.104	.086	.072	.034	.028	.024	
6.0	.297	.235	.190	.256	.203	.166	.176	.142	.117	.102	.084	.070	.033	.027	.023	
7.0	.290	.228	.185	.250	.198	.161	.173	.139	.114	.100	.082	.068	.032	.027	.022	
8.0	.284	.223	.181	.244	.193	.158	.169	.136	.112	.098	.080	.067	.032	.026	.022	
9.0	.277	.218	.178	.239	.189	.155	.166	.133	.110	.096	.079	.066	.031	.026	.022	
10.0	.271	.214	.176	.234	.186	.153	.162	.131	.109	.095	.077	.065	.031	.025	.022	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm										
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K CR1000:LED							WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: DARKON					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	12.3	13.6	12.8	14.2	14.8	15.4	16.7	15.9	17.2	17.8
3H	13.7	14.9	14.2	15.5	16.1	18.1	19.4	18.7	19.9	20.5
4H	14.2	15.4	14.8	16.0	16.7	19.6	20.8	20.2	21.4	22.0
6H	14.6	15.8	15.2	16.4	17.0	21.2	22.4	21.8	23.0	23.6
8H	14.8	15.9	15.4	16.5	17.1	22.2	23.3	22.8	23.9	24.6
12H	14.8	15.9	15.4	16.5	17.2	23.2	24.3	23.8	24.9	25.6
4H 2H	13.7	14.9	14.3	15.5	16.1	15.9	17.1	16.4	17.6	18.3
3H	15.4	16.5	16.0	17.1	17.8	18.9	19.9	19.5	20.5	21.2
4H	16.2	17.2	16.8	17.8	18.5	20.6	21.5	21.2	22.2	22.9
6H	16.8	17.7	17.5	18.3	19.1	22.5	23.3	23.1	24.0	24.8
8H	17.0	17.9	17.7	18.5	19.3	23.5	24.3	24.2	25.0	25.8
12H	17.2	17.9	17.9	18.6	19.4	24.7	25.4	25.4	26.1	26.9
8H 4H	17.5	18.3	18.2	19.0	19.8	20.9	21.7	21.6	22.4	23.2
6H	18.6	19.3	19.3	20.0	20.8	23.1	23.8	23.8	24.5	25.3
8H	19.1	19.7	19.8	20.4	21.2	24.4	25.0	25.1	25.7	26.6
12H	19.4	20.0	20.2	20.7	21.6	25.8	26.4	26.6	27.1	28.0
12H 4H	18.0	18.7	18.7	19.4	20.2	20.9	21.7	21.6	22.4	23.2
6H	19.3	19.9	20.0	20.6	21.5	23.2	23.8	23.9	24.6	25.4
8H	20.0	20.5	20.7	21.3	22.1	24.6	25.1	25.3	25.9	26.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 612.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.7)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CR100E:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

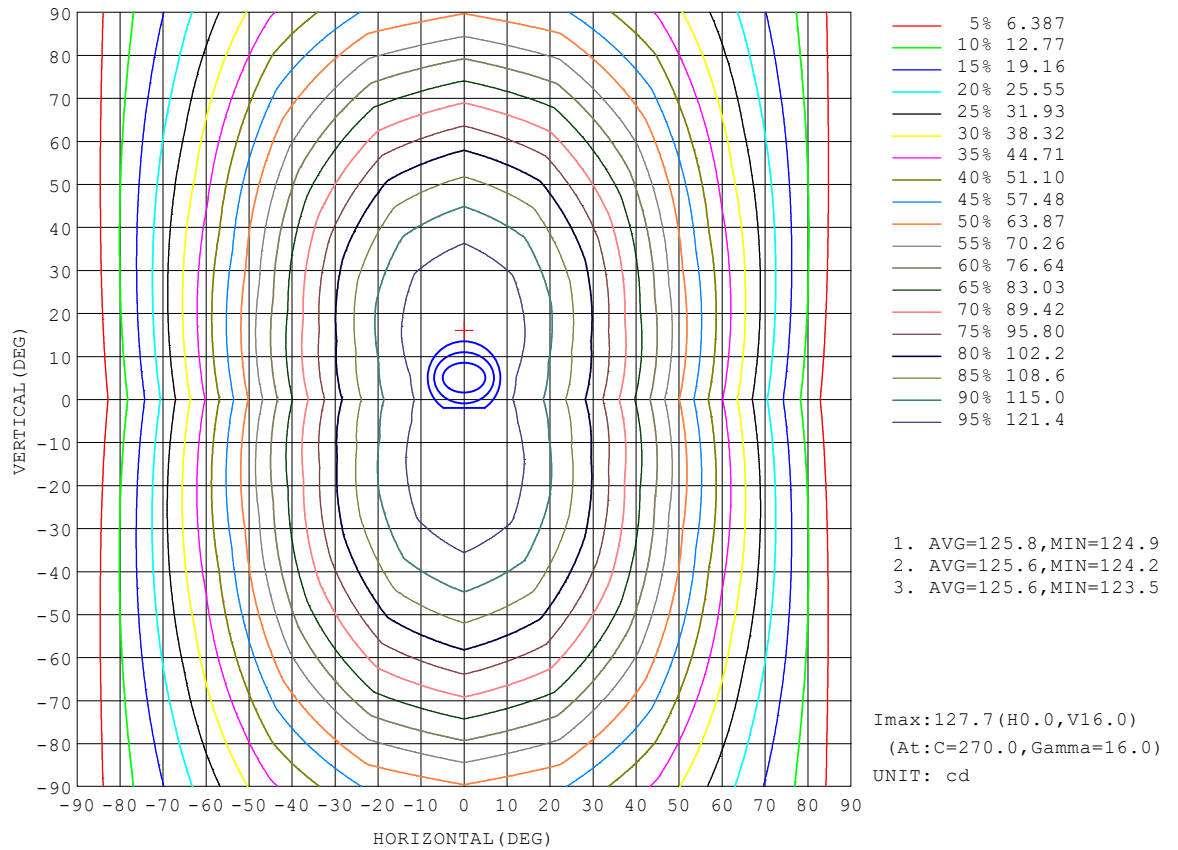
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	55	42	35	52	41	34	26
1.00	64	51	42	62	50	42	58	50	41	32
1.25	71	58	49	68	57	48	64	54	47	37
1.50	76	63	55	73	62	54	68	59	52	41
2.00	83	72	63	80	70	62	74	66	59	47
2.50	88	77	69	84	75	67	78	70	64	51
3.00	91	82	74	88	79	72	81	74	68	55
4.00	96	88	81	92	85	79	85	79	74	59
5.00	99	92	86	95	89	83	87	82	78	62
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:JEFF  
Test Date:11 March 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CRI:90 LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



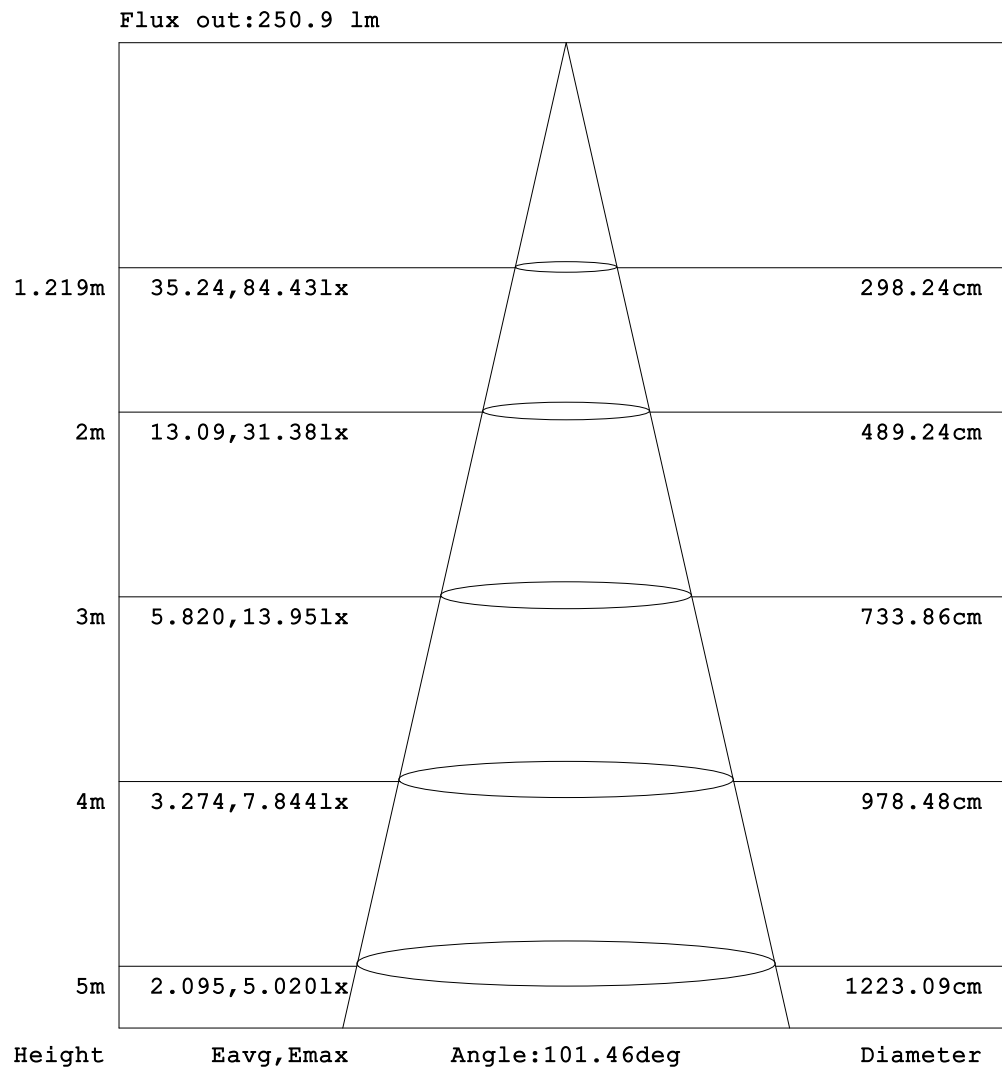
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CR1000:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



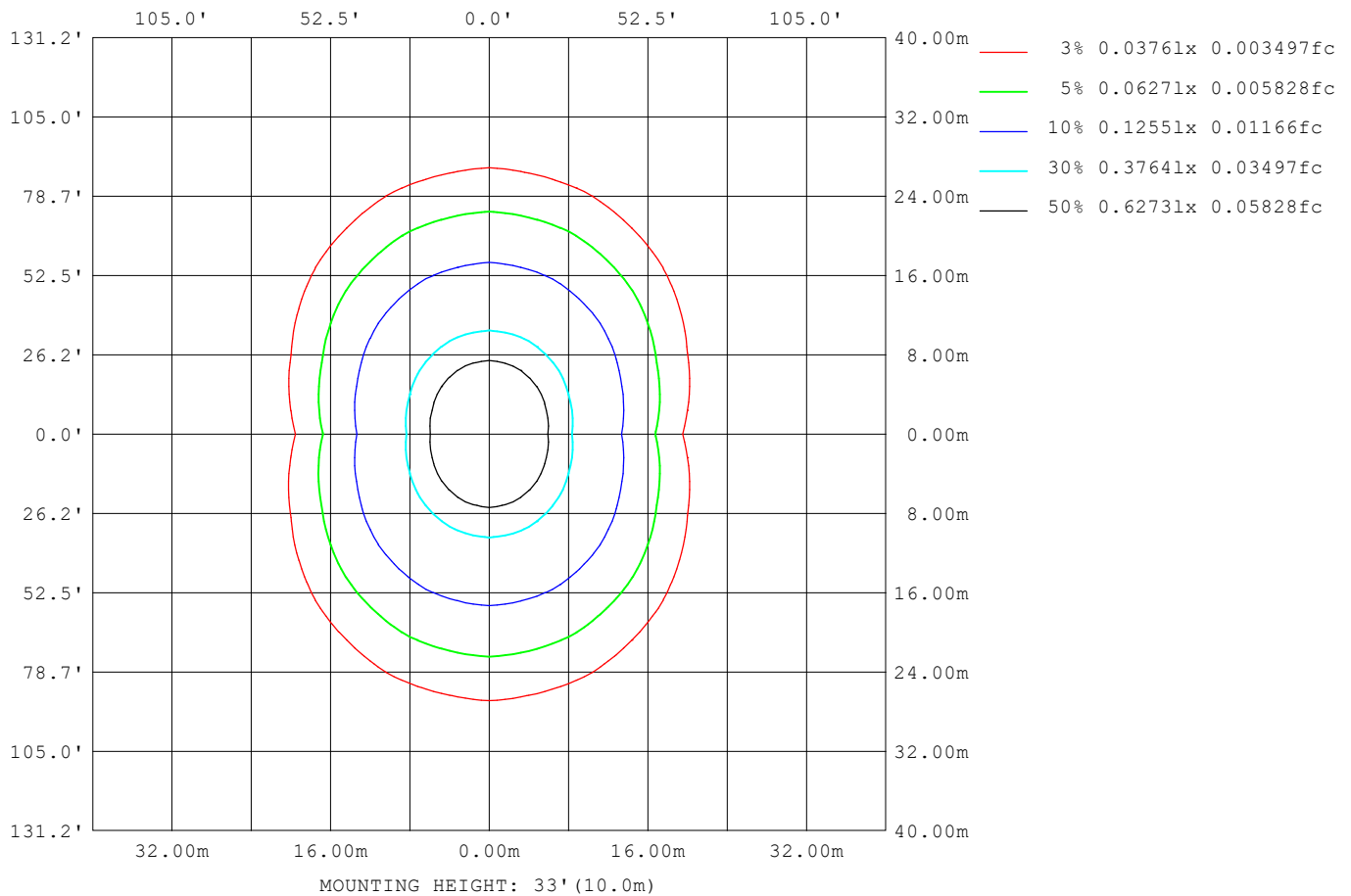
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K CR100E:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CR100E:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

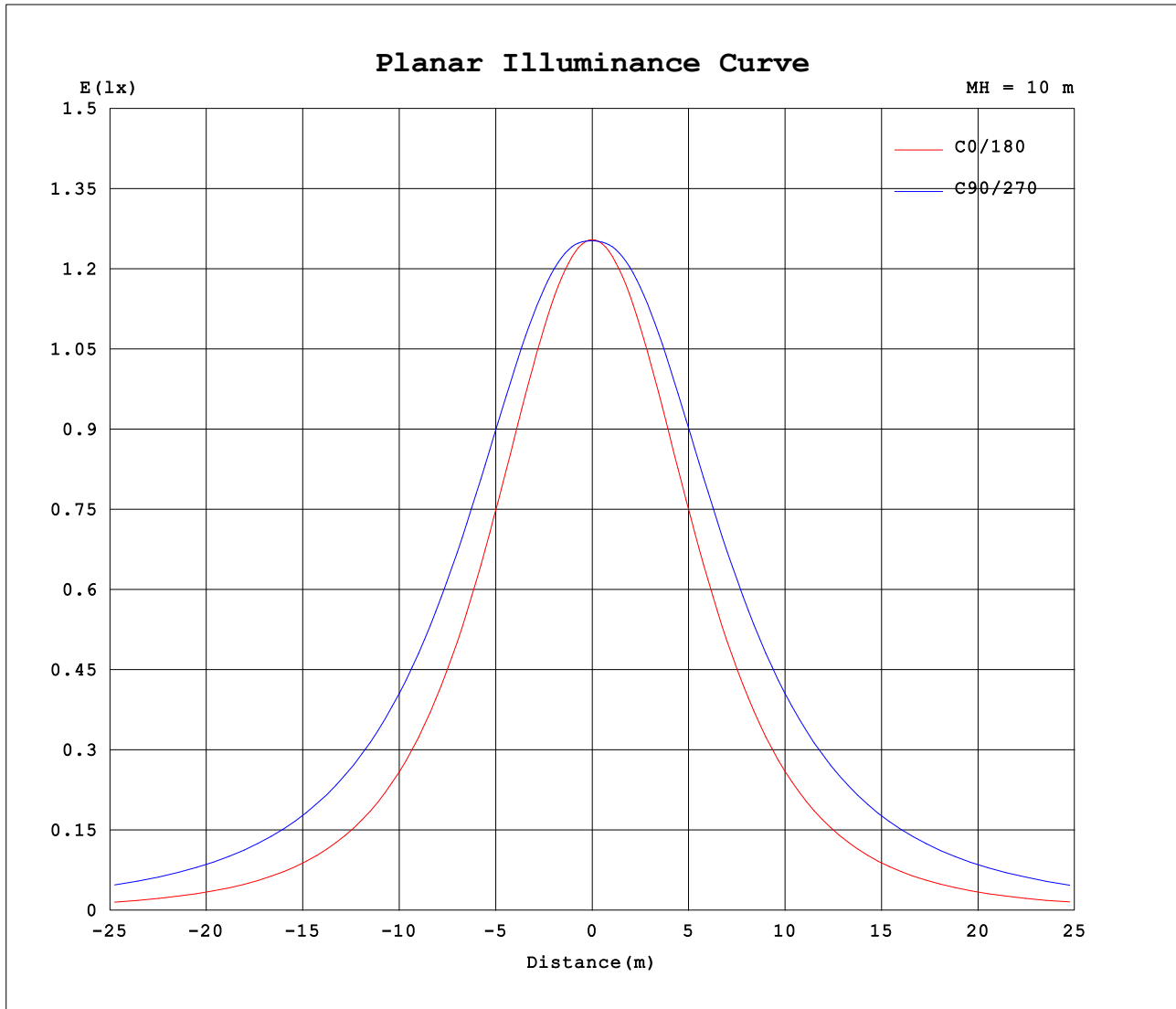
AvgL	cd/m2
L_0~180 (65) av	1128
L_0~180 (75) av	922
L_0~180 (85) av	596
L_90~270 (65) av	2985
L_90~270 (75) av	4236
L_90~270 (85) av	10669
L_45 (65) av	2296
L_45 (75) av	3099
L_45 (85) av	7485

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:11 March 2025

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.891m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 11 March 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.891m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:239.9V I:0.0936A P:19.62W PF:0.8742 Lamp Flux:611.995x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_3000K	CR100:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	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	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125			
5	124	125	125	126	126	126	125	125	125	125	125	126	126	126	125	125			
10	122	123	125	126	127	126	125	123	122	123	125	127	127	127	125	123			
15	118	120	123	126	127	126	124	120	118	120	124	127	128	127	124	120			
20	113	116	121	125	127	125	121	116	113	116	122	126	128	126	122	116			
25	107	111	118	124	126	124	118	111	107	111	119	124	127	125	119	111			
30	99.3	105	114	121	124	121	114	105	99.6	105	115	122	125	122	115	105			
35	91.1	98.2	109	118	122	118	109	98.4	91.4	98.4	110	119	122	119	110	98.5			
40	82.4	90.9	104	115	119	115	104	91.0	82.7	91.0	104	115	119	115	105	91.1			
45	73.3	83.2	98.1	110	115	110	98.2	83.3	73.6	83.2	98.4	110	115	110	98.6	83.4			
50	63.9	75.2	91.9	105	111	105	92.0	75.4	64.2	75.2	92.2	105	110	105	92.3	75.3			
55	54.4	67.1	85.5	100	106	100	85.7	67.3	54.7	67.0	85.6	99.9	105	100	85.8	67.2			
60	45.0	59.0	79.0	94.5	100	94.6	79.2	59.3	45.2	58.9	79.0	94.2	99.9	94.3	79.2	59.1			
65	35.6	51.2	72.5	88.6	94.6	88.7	72.7	51.4	35.7	51.0	72.5	88.3	94.1	88.4	72.7	51.2			
70	26.4	43.7	66.1	82.5	88.5	82.7	66.3	44.0	26.6	43.4	66.1	82.2	88.1	82.3	66.3	43.7			
75	17.8	36.7	59.9	76.3	82.2	76.5	60.1	37.0	17.9	36.5	59.9	76.1	81.8	76.3	60.1	36.8			
80	10.1	30.5	54.0	70.1	75.9	70.3	54.2	30.8	10.1	30.3	54.2	70.2	75.6	70.3	54.4	30.7			
85	3.95	25.2	48.5	64.2	69.6	64.3	48.8	25.5	3.82	25.2	48.8	64.2	69.5	64.5	49.1	25.6			
90	1.26	21.0	43.5	58.3	63.4	58.5	43.7	21.3	0.90	21.2	43.9	58.5	63.5	58.8	44.2	21.6			
95	0.99	17.6	38.5	52.5	57.2	52.6	38.8	17.8	0.78	17.8	39.0	52.1	57.2	52.9	39.2	18.2			
100	0.31	15.1	34.1	47.0	51.3	47.1	34.3	15.3	0.31	15.2	34.4	46.4	51.3	47.4	34.8	15.6			
105	0.31	13.1	30.2	41.9	45.9	42.1	30.1	13.1	0.34	12.8	29.9	41.4	45.8	42.3	30.7	13.5			
110	0.36	11.6	26.6	37.2	40.8	37.3	25.5	11.1	0.38	10.8	25.9	36.8	40.8	37.6	27.2	11.9			
115	0.42	10.2	23.4	32.9	36.1	33.0	22.1	9.56	0.42	9.39	22.0	32.6	36.2	33.2	23.9	10.5			
120	0.47	9.11	20.6	28.9	31.9	28.6	18.8	7.58	0.46	7.68	18.1	28.4	31.8	29.2	21.0	9.28			
125	0.52	7.97	18.0	25.4	27.9	24.6	15.1	5.97	0.50	6.37	14.2	24.6	27.9	25.5	18.3	7.90			
130	0.58	6.75	15.7	22.1	24.3	21.1	12.3	5.13	0.54	5.31	11.7	20.8	23.9	22.1	15.9	6.89			
135	0.63	5.61	13.6	19.0	20.9	17.2	10.0	4.33	0.58	4.43	9.99	16.7	20.4	19.1	13.7	5.91			
140	0.68	4.84	11.6	16.2	17.8	13.6	7.65	3.64	0.62	3.66	8.09	13.0	17.1	16.2	11.5	5.00			
145	0.72	3.76	9.49	13.6	15.0	9.98	6.25	2.95	0.66	2.90	6.44	8.75	14.4	13.3	9.49	3.90			
150	0.76	3.09	7.44	11.0	12.1	6.78	5.04	2.57	0.70	2.49	5.06	7.64	11.5	10.8	7.82	3.23			
155	0.80	2.67	5.79	8.39	8.74	5.56	3.94	2.22	0.75	2.22	3.92	5.62	9.11	8.58	6.17	2.64			
160	0.82	2.15	4.10	6.04	6.43	4.00	3.16	1.97	0.79	1.92	3.07	4.05	6.96	6.46	4.41	2.07			
165	0.85	1.71	3.13	4.02	4.52	2.71	2.50	1.69	0.82	1.59	2.48	2.67	4.40	4.26	3.09	1.60			
170	0.88	1.36	2.15	2.69	1.92	1.87	1.94	1.40	0.86	1.26	1.82	1.87	1.87	2.64	2.02	1.24			
175	0.88	1.10	1.40	1.56	1.25	1.31	1.38	1.14	0.88	0.98	1.17	1.26	1.16	1.42	1.19	0.95			
180	0.88	0.88	0.91	0.90	0.83	0.88	0.97	0.96	0.88	0.87	0.88	0.88	0.82	0.87	0.94	0.94			

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