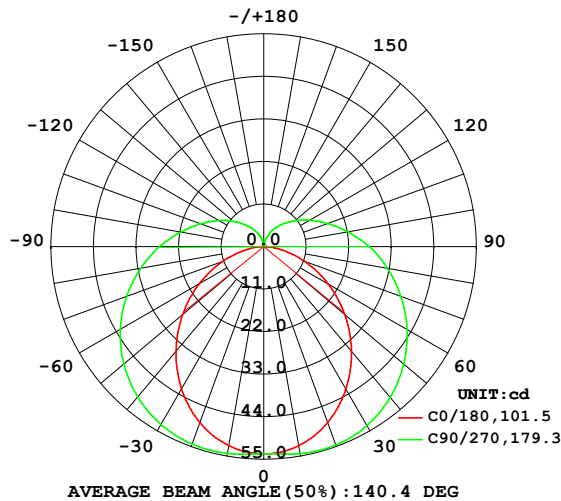


LUMINAIRE PHOTOMETRIC TEST REPORT

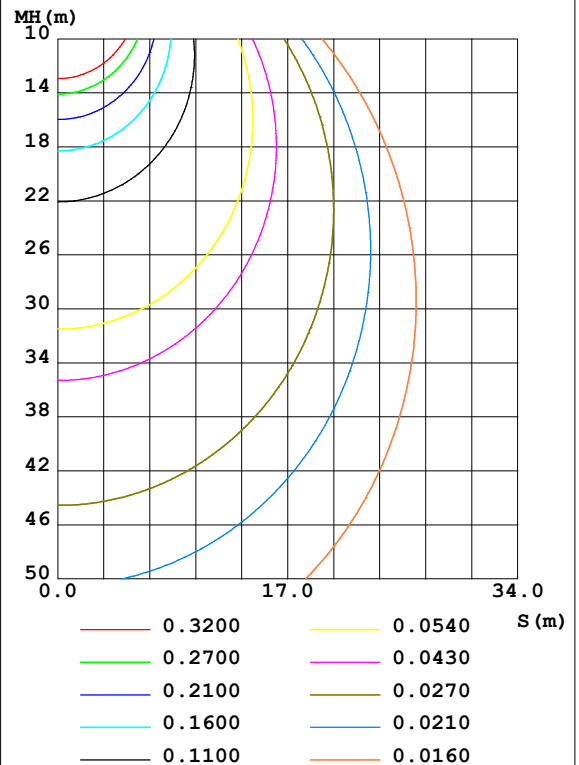
Test:U:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K	CRI:90 LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 27.54 lm/W			
MODEL	DPAL 20 3000K	Imax(cd)	54.65	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)	261.97	η UP,DN(C0-180)	9.7,40.3
NOMINAL FLUX(lm)	261.971	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	52.27	53.49	54.35	53.39	52.24	53.37	54.27	53.43	0- 10	5.108	5.108	1.95,1.95
20	48.39	52.07	54.62	51.92	48.39	51.83	54.30	51.96	10- 20	14.91	20.01	7.64,7.64
30	42.51	49.02	53.43	48.86	42.54	48.78	53.12	48.96	20- 30	23.20	43.21	16.5,16.5
40	35.31	44.64	50.88	44.49	35.30	44.49	50.71	44.70	30- 40	29.01	72.22	27.6,27.6
50	27.38	39.40	47.24	39.29	27.40	39.39	47.22	39.61	40- 50	31.90	104.1	39.7,39.7
60	19.24	33.77	42.78	33.71	19.29	33.90	42.84	34.10	50- 60	31.89	136.0	51.9,51.9
70	11.29	28.23	37.74	28.21	11.37	28.39	37.72	28.56	60- 70	29.42	165.4	63.1,63.1
80	4.237	23.12	32.50	23.17	4.378	23.20	32.30	23.35	70- 80	25.25	190.7	72.8,72.8
90	0.4734	18.75	27.31	18.80	0.4144	18.68	26.98	18.81	80- 90	20.52	211.2	80.6,80.6
100	0.1284	14.75	22.09	14.78	0.1394	14.65	21.79	14.77	90-100	16.20	227.4	86.8,86.8
110	0.1284	11.50	17.58	11.08	0.1871	10.96	17.37	11.52	100-110	12.31	239.7	91.5,91.5
120	0.1687	8.890	13.69	8.059	0.2311	7.650	13.53	8.906	110-120	8.941	248.7	94.9,94.9
130	0.1980	6.752	10.43	5.293	0.2751	4.916	10.17	6.774	120-130	6.058	254.7	97.2,97.2
140	0.2347	4.971	7.649	3.432	0.3154	3.437	7.314	4.978	130-140	3.796	258.5	98.7,98.7
150	0.2786	3.349	5.242	2.168	0.3521	2.160	4.960	3.333	140-150	2.094	260.6	99.5,99.5
160	0.3117	1.706	2.768	1.342	0.3668	1.320	2.959	1.917	150-160	0.9775	261.6	99.9,99.9
170	0.3484	0.8513	0.7930	0.7703	0.3668	0.8102	0.8102	0.9238	160-170	0.3295	261.9	100,100
180	0.3631	0.3557	0.3519	0.3557	0.3668	0.3924	0.3849	0.3777	170-180	0.0551	262.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 87.999 lm

%lum = 33.6%

%lamp = 33.6%

Conical surface Flux(120deg): 136.01 lm

%lum = 51.9%

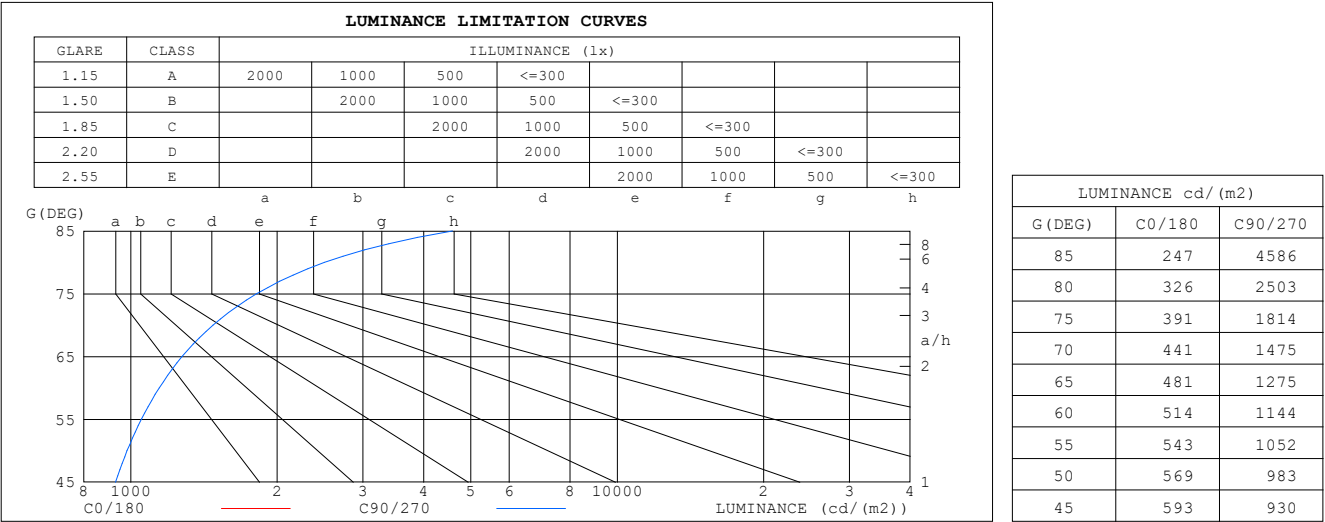
%lamp = 51.9%

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

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:

LUMINANCE LIMITATION CURVES

Test:U:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K	CRI:90 LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



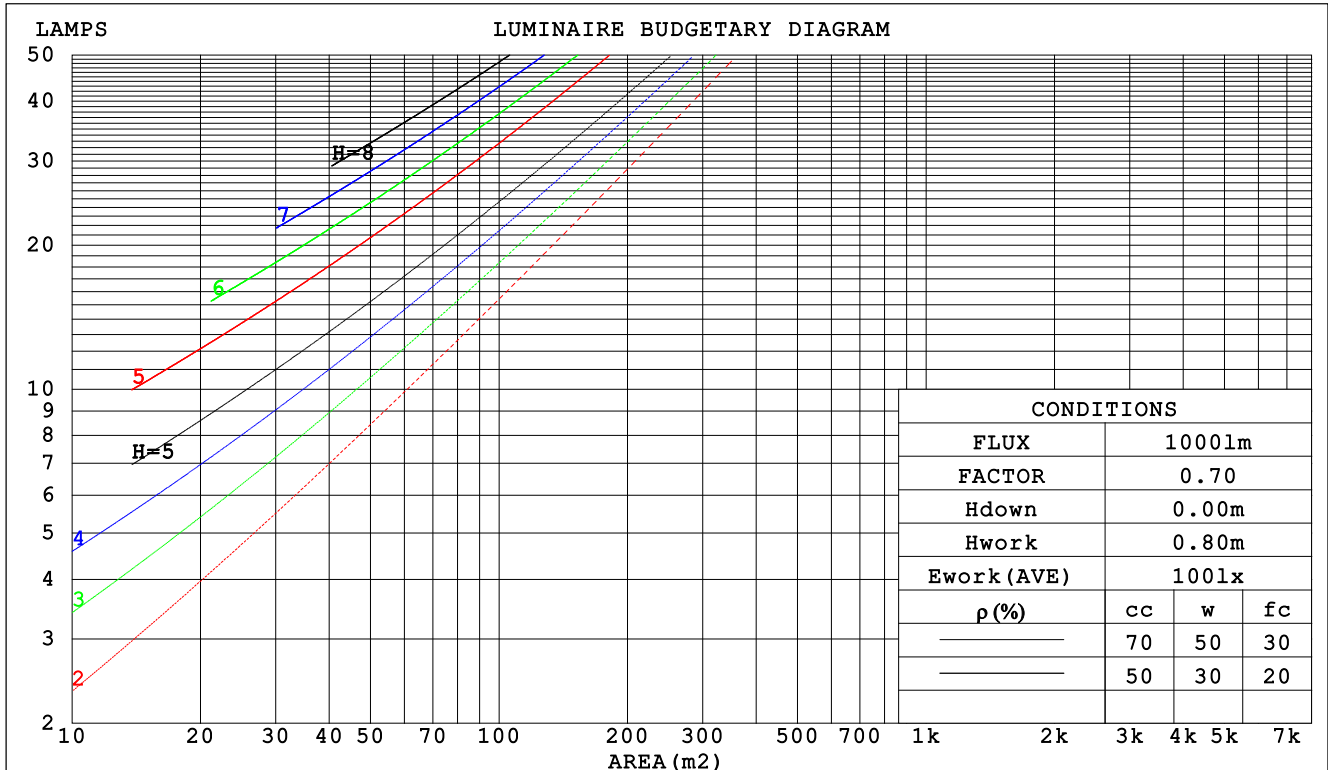
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:11 March 2025

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K CR100:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.51	.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

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:

WEC AND CCEC

Test:U:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_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	.065	.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	.282	.243	.281	.242	.210	.193	.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	.185	.152	.127	.107	.089	.075	.034	.029	.025	
5.0	.305	.243	.197	.262	.210	.172	.180	.147	.121	.105	.086	.072	.034	.028	.024	
6.0	.298	.235	.190	.256	.204	.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	.272	.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:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm										
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_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	9.3	10.7	9.8	11.2	11.8	12.4	13.8	12.9	14.3	14.9
3H	10.7	12.0	11.3	12.5	13.2	15.1	16.4	15.7	16.9	17.6
4H	11.3	12.5	11.8	13.0	13.7	16.6	17.8	17.2	18.4	19.1
6H	11.7	12.8	12.3	13.4	14.1	18.3	19.4	18.9	20.0	20.7
8H	11.8	12.9	12.4	13.5	14.2	19.2	20.3	19.8	20.9	21.6
12H	11.8	12.9	12.4	13.5	14.2	20.3	21.3	20.9	21.9	22.6
4H 2H	10.7	11.9	11.3	12.5	13.2	12.9	14.1	13.5	14.7	15.3
3H	12.4	13.5	13.1	14.1	14.8	15.9	16.9	16.5	17.6	18.3
4H	13.2	14.2	13.9	14.8	15.6	17.6	18.6	18.3	19.2	20.0
6H	13.8	14.7	14.5	15.4	16.1	19.5	20.4	20.2	21.0	21.8
8H	14.1	14.9	14.7	15.5	16.3	20.6	21.4	21.2	22.0	22.8
12H	14.2	15.0	14.9	15.6	16.5	21.8	22.5	22.4	23.2	24.0
8H 4H	14.6	15.4	15.2	16.0	16.8	17.9	18.7	18.6	19.4	20.2
6H	15.6	16.3	16.3	17.0	17.8	20.1	20.8	20.9	21.5	22.4
8H	16.1	16.7	16.8	17.4	18.3	21.4	22.0	22.1	22.8	23.6
12H	16.5	17.0	17.2	17.7	18.6	22.9	23.4	23.6	24.2	25.0
12H 4H	15.0	15.7	15.7	16.4	17.2	17.9	18.7	18.6	19.4	20.2
6H	16.3	16.9	17.1	17.7	18.5	20.3	20.9	21.0	21.6	22.4
8H	17.0	17.5	17.7	18.3	19.2	21.7	22.2	22.4	22.9	23.8
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 262.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.7)

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:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K	CR100E:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

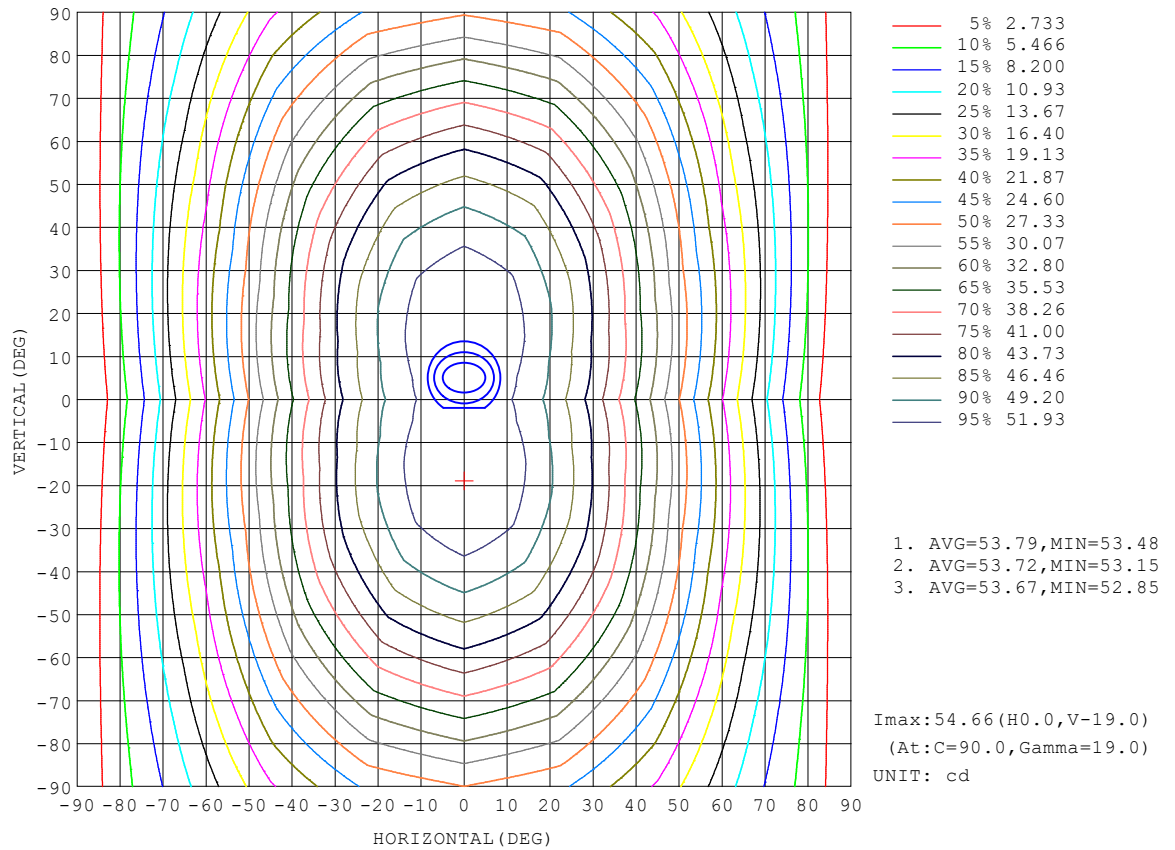
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	55	42	35	52	41	34	26
1.00	64	51	42	62	50	42	58	50	40	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

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:

ISOCANDELA DIAGRAM

Test:U:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.97lx1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K	CR100:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

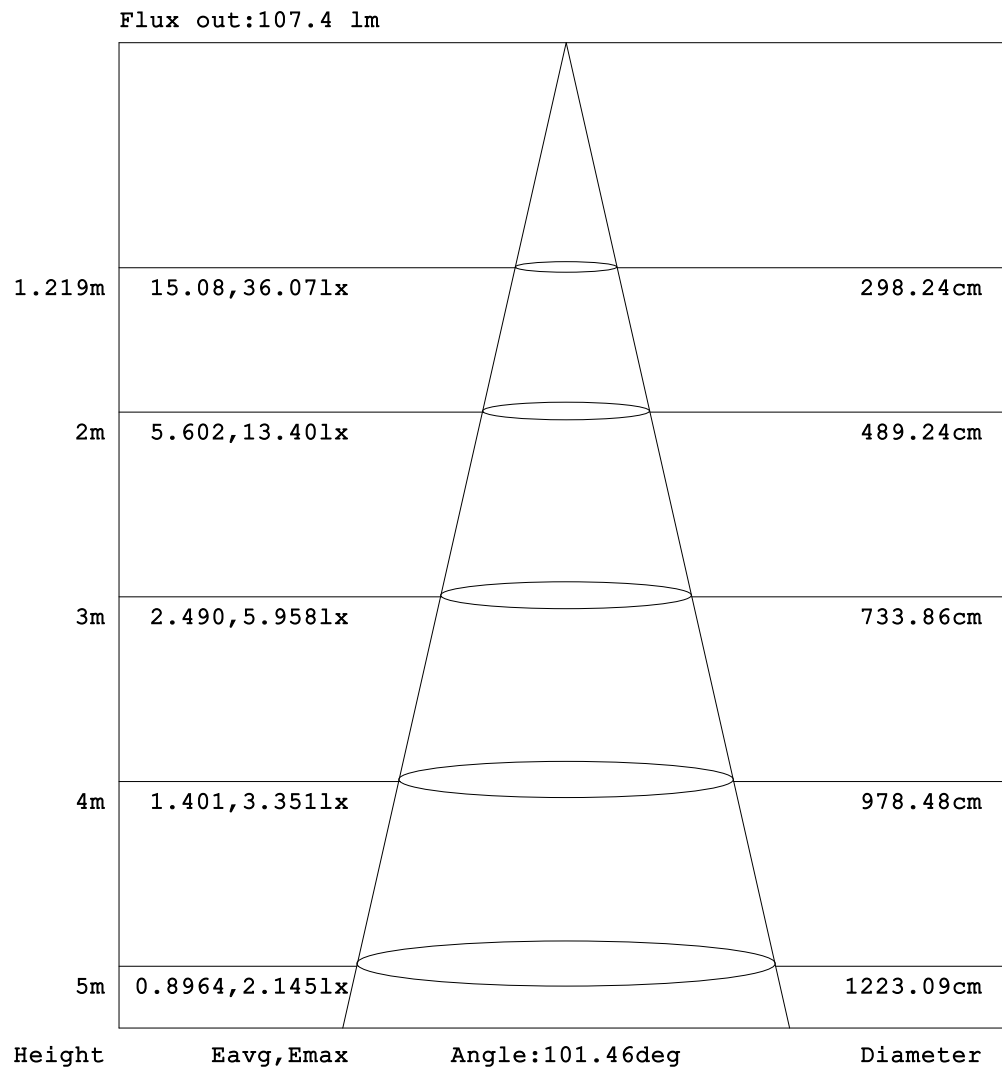


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:11 March 2025

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:

AAI Figure

Test:U:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.97lx1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K	CR100:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



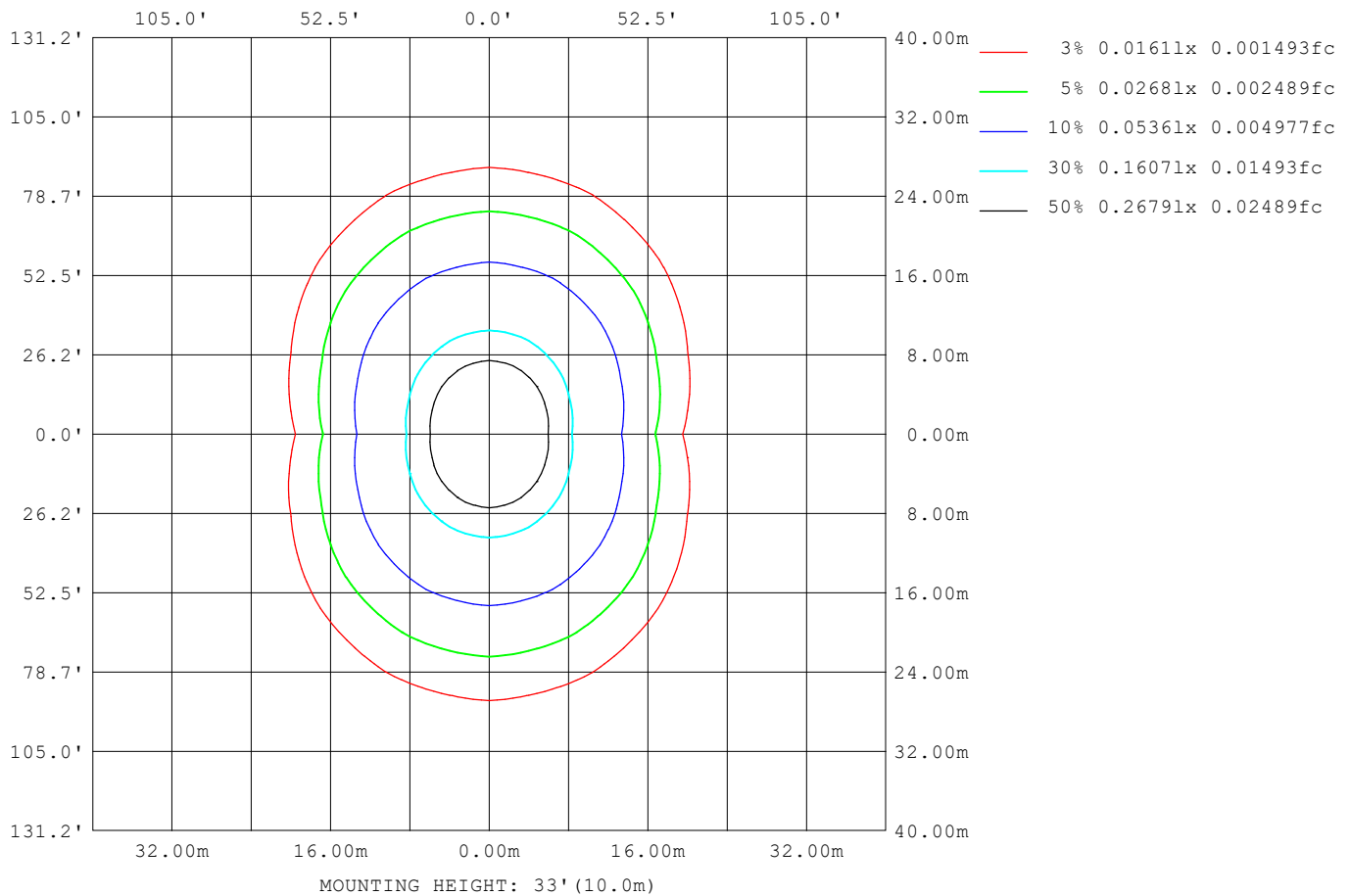
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_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:239.8V I:0.0586A P:9.512W PF:0.6771 Lamp Flux:261.971x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K	CRI:90	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

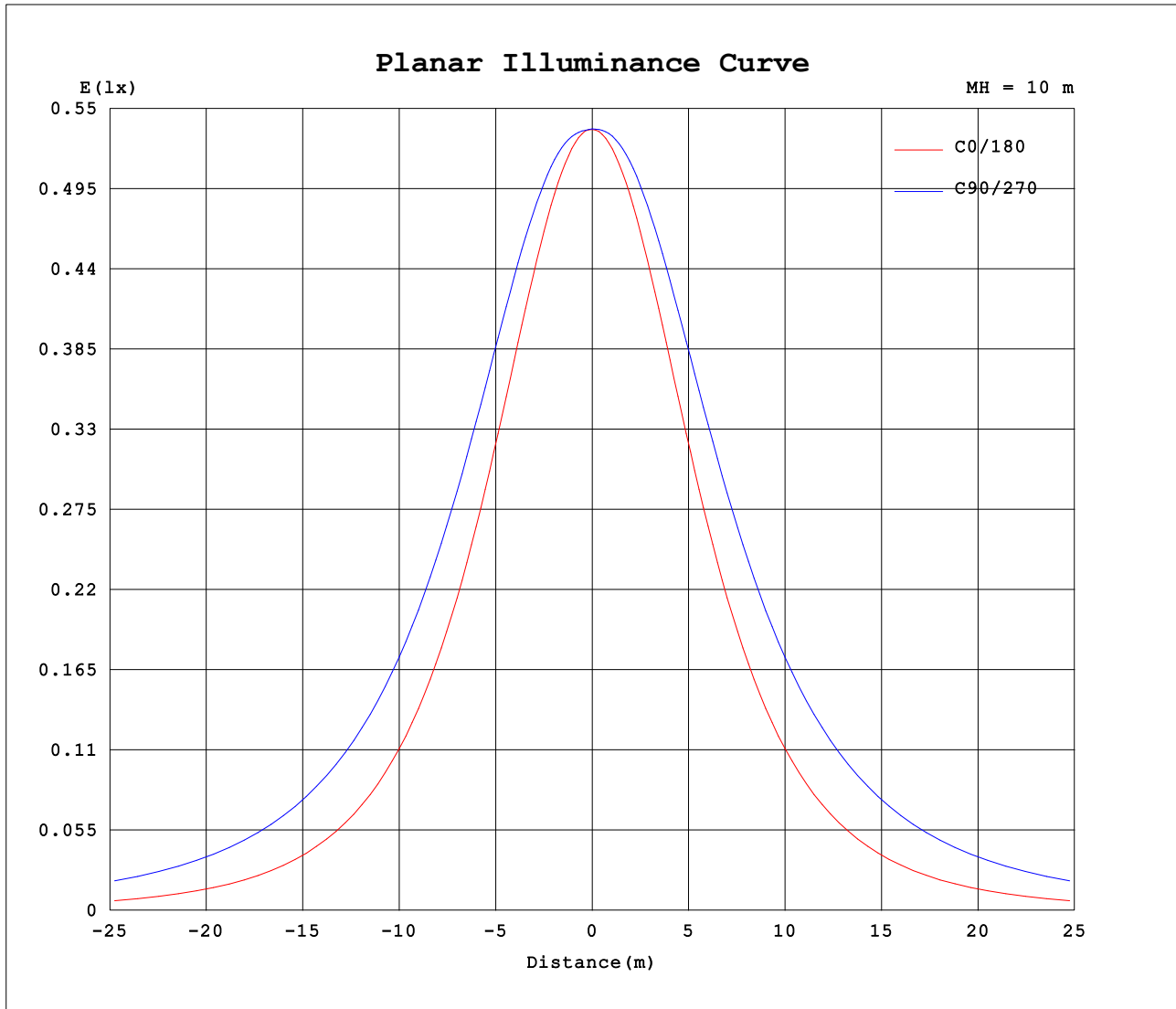
AvgL	cd/m2
L_0~180 (65) av	482
L_0~180 (75) av	395
L_0~180 (85) av	253
L_90~270 (65) av	1276
L_90~270 (75) av	1811
L_90~270 (85) av	4564
L_45 (65) av	983
L_45 (75) av	1328
L_45 (85) av	3206

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



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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 20_3000K	CR1000: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	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6			
5	53.3	53.4	53.6	53.8	53.9	53.8	53.6	53.3	53.2	53.4	53.6	53.8	53.9	53.8	53.6	53.4			
10	52.3	52.7	53.5	54.1	54.4	54.1	53.4	52.6	52.2	52.6	53.4	54.0	54.3	54.1	53.4	52.7			
15	50.6	51.5	53.0	54.2	54.6	54.1	52.9	51.4	50.6	51.4	52.8	54.0	54.4	54.1	52.9	51.5			
20	48.4	49.8	52.1	53.9	54.6	53.8	51.9	49.7	48.4	49.6	51.8	53.6	54.3	53.8	52.0	49.8			
25	45.7	47.6	50.7	53.2	54.2	53.1	50.6	47.5	45.7	47.4	50.5	52.9	53.9	53.1	50.6	47.6			
30	42.5	45.0	49.0	52.2	53.4	52.1	48.9	45.0	42.5	44.9	48.8	51.9	53.1	52.1	49.0	45.0			
35	39.0	42.1	47.0	50.8	52.3	50.7	46.8	42.1	39.0	42.0	46.8	50.6	52.1	50.8	47.0	42.1			
40	35.3	39.0	44.6	49.2	50.9	49.0	44.5	38.9	35.3	38.8	44.5	49.0	50.7	49.2	44.7	39.0			
45	31.4	35.7	42.1	47.3	49.2	47.1	42.0	35.6	31.4	35.5	42.0	47.1	49.1	47.4	42.2	35.7			
50	27.4	32.2	39.4	45.1	47.2	45.0	39.3	32.2	27.4	32.1	39.4	45.0	47.2	45.3	39.6	32.3			
55	23.3	28.7	36.6	42.8	45.1	42.7	36.5	28.7	23.3	28.7	36.7	42.8	45.1	43.1	36.9	28.8			
60	19.2	25.2	33.8	40.4	42.8	40.3	33.7	25.3	19.3	25.2	33.9	40.4	42.8	40.7	34.1	25.4			
65	15.2	21.8	31.0	37.8	40.3	37.7	30.9	21.9	15.3	21.9	31.1	37.9	40.3	38.1	31.3	22.0			
70	11.3	18.6	28.2	35.2	37.7	35.2	28.2	18.7	11.4	18.7	28.4	35.3	37.7	35.5	28.6	18.8			
75	7.56	15.6	25.6	32.6	35.1	32.6	25.6	15.8	7.71	15.7	25.7	32.6	35.0	32.8	25.9	15.8			
80	4.24	13.0	23.1	30.1	32.5	30.0	23.2	13.1	4.38	13.1	23.2	30.0	32.3	30.2	23.3	13.2			
85	1.61	10.8	20.9	27.6	29.9	27.6	20.9	11.0	1.69	10.8	20.9	27.5	29.6	27.6	21.0	10.9			
90	0.47	9.06	18.7	25.2	27.3	25.1	18.8	9.22	0.41	9.02	18.7	24.9	27.0	25.1	18.8	9.11			
95	0.39	7.60	16.6	22.6	24.6	22.6	16.7	7.74	0.35	7.56	16.6	22.4	24.3	22.6	16.7	7.66			
100	0.13	6.50	14.7	20.3	22.1	20.3	14.8	6.63	0.14	6.47	14.6	19.8	21.8	20.2	14.8	6.56			
105	0.13	5.64	13.1	18.1	19.8	18.1	12.9	5.67	0.17	5.50	12.7	17.6	19.5	18.0	13.1	5.71			
110	0.13	4.95	11.5	16.0	17.6	16.1	11.1	4.82	0.19	4.67	11.0	15.6	17.4	16.0	11.5	5.03			
115	0.14	4.37	10.1	14.2	15.6	14.2	9.56	4.14	0.21	4.01	9.29	13.8	15.4	14.2	10.1	4.46			
120	0.17	3.87	8.89	12.5	13.7	12.2	8.06	3.31	0.23	3.31	7.65	12.0	13.5	12.4	8.91	3.95			
125	0.18	3.41	7.77	10.9	12.0	10.7	6.46	2.56	0.25	2.76	6.29	10.3	11.8	10.9	7.79	3.47			
130	0.20	2.99	6.75	9.46	10.4	8.88	5.29	2.17	0.28	2.31	4.92	8.64	10.2	9.48	6.77	2.92			
135	0.23	2.48	5.83	8.15	8.99	7.33	4.38	1.84	0.30	1.93	4.21	7.07	8.67	8.17	5.84	2.54			
140	0.23	2.03	4.97	6.93	7.65	5.69	3.43	1.53	0.32	1.60	3.44	5.55	7.31	6.95	4.98	2.19			
145	0.25	1.51	4.16	5.80	6.41	4.42	2.68	1.22	0.33	1.28	2.74	4.04	6.19	5.83	4.06	1.71			
150	0.28	1.18	3.35	4.73	5.24	2.89	2.17	1.05	0.35	1.10	2.16	3.07	4.96	4.65	3.33	1.43			
155	0.29	1.03	2.47	3.73	4.08	2.29	1.69	0.88	0.36	1.00	1.69	2.39	3.87	3.70	2.65	1.19			
160	0.31	0.83	1.71	2.57	2.77	1.67	1.34	0.77	0.37	0.88	1.32	1.72	2.96	2.82	1.92	0.95			
165	0.34	0.64	1.23	1.60	1.80	1.11	1.03	0.64	0.37	0.75	1.08	1.17	1.94	1.88	1.36	0.76			
170	0.35	0.48	0.85	1.06	0.79	0.74	0.77	0.50	0.37	0.62	0.81	0.83	0.81	1.20	0.92	0.61			
175	0.36	0.36	0.52	0.57	0.50	0.47	0.51	0.37	0.37	0.51	0.56	0.59	0.52	0.69	0.58	0.50			
180	0.36	0.37	0.36	0.36	0.35	0.35	0.36	0.36	0.37	0.40	0.39	0.39	0.38	0.38	0.38	0.38			

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