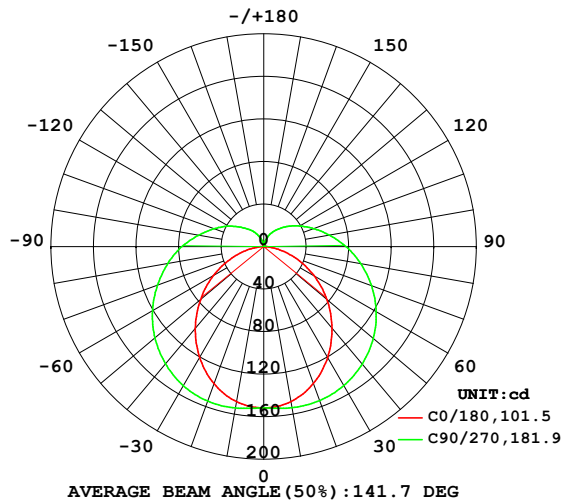


LUMINAIRE PHOTOMETRIC TEST REPORT

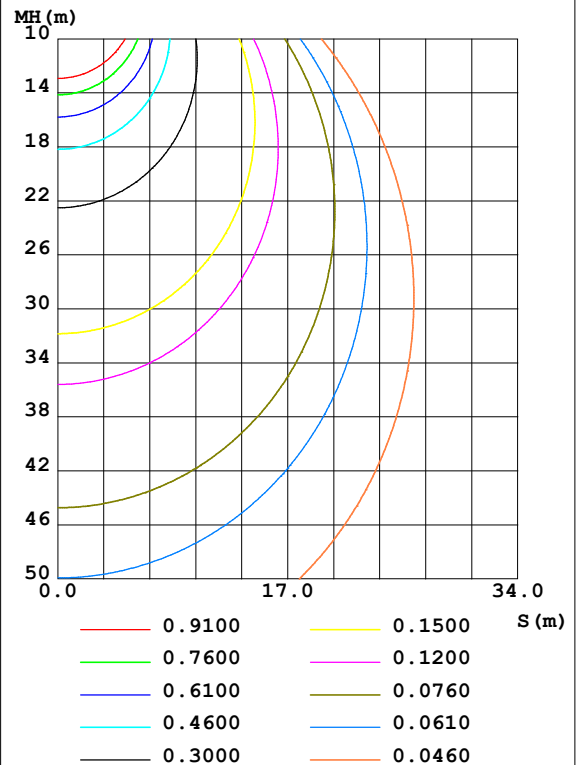
Test:U:239.9V I:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K	CRI:90 LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 37.97 lm/W			
MODEL	DPAL 60 4000K	I _{max} (cd)	154.8	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)	743.51	η UP,DN(C0-180)	9.8,40.3
NOMINAL FLUX(lm)	743.512	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.7,40.2
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	147.9	151.2	153.8	151.2	148.0	151.4	154.0	151.5	0- 10	14.47	14.47	1.95,1.95
20	137.0	146.9	154.1	146.9	137.2	147.3	154.6	147.5	10- 20	42.23	56.69	7.63,7.63
30	120.4	138.3	150.8	138.3	120.6	138.7	151.1	139.0	20- 30	65.72	122.4	16.5,16.5
40	99.96	126.2	144.1	126.2	100.2	126.3	143.9	126.7	30- 40	82.22	204.6	27.5,27.5
50	77.59	111.8	134.4	111.8	77.73	111.5	133.6	111.9	40- 50	90.42	295.0	39.7,39.7
60	54.61	96.20	122.1	96.32	54.71	95.65	120.8	96.08	50- 60	90.42	385.5	51.8,51.8
70	32.16	80.57	107.9	80.76	32.22	79.97	106.3	80.40	60- 70	83.44	468.9	63.1,63.1
80	12.33	65.84	92.59	66.10	12.27	65.71	91.59	66.10	70- 80	71.69	540.6	72.7,72.7
90	1.530	53.06	77.48	53.28	1.116	53.48	77.13	53.87	80- 90	58.36	599.0	80.6,80.6
100	0.3477	41.76	62.73	41.91	0.3551	41.85	62.30	42.28	90-100	46.09	645.0	86.8,86.8
110	0.4355	32.63	49.93	31.18	0.4393	31.45	49.66	32.98	100-110	35.04	680.1	91.5,91.5
120	0.5746	25.27	38.98	22.93	0.5344	21.67	38.68	25.45	110-120	25.48	705.6	94.9,94.9
130	0.7063	19.32	29.79	15.09	0.6406	13.93	28.61	19.28	120-130	17.27	722.8	97.2,97.2
140	0.8306	14.30	21.93	10.16	0.7357	9.648	20.87	14.10	130-140	10.79	733.6	98.7,98.7
150	0.9296	9.759	15.08	6.203	0.8273	6.009	14.14	9.319	140-150	5.994	739.6	99.5,99.5
160	0.9991	5.166	8.033	3.935	0.9443	3.631	8.353	5.272	150-160	2.787	742.4	99.9,99.9
170	1.050	2.676	2.383	2.374	1.029	2.118	2.193	2.389	160-170	0.9409	743.4	100,100
180	1.058	1.102	1.013	1.190	1.054	1.062	0.9982	1.172	170-180	0.1586	743.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 249.34 lm

%lum = 33.5%

%lamp = 33.5%

Conical surface Flux(120deg): 385.47 lm

%lum = 51.8%

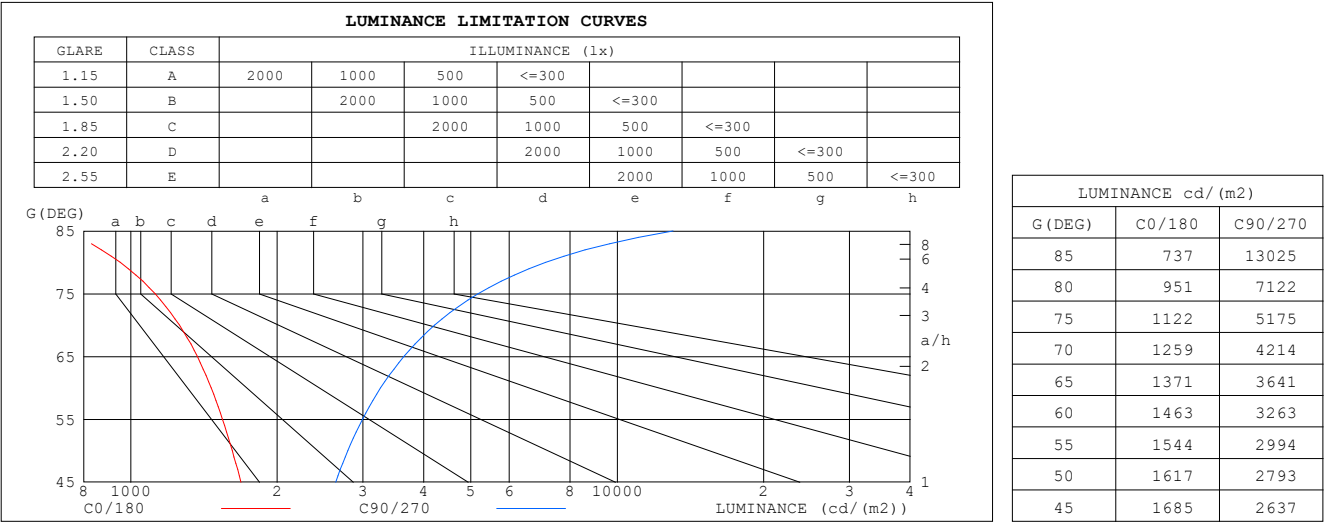
%lamp = 51.8%

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:239.9V I:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K	CRI:90 LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



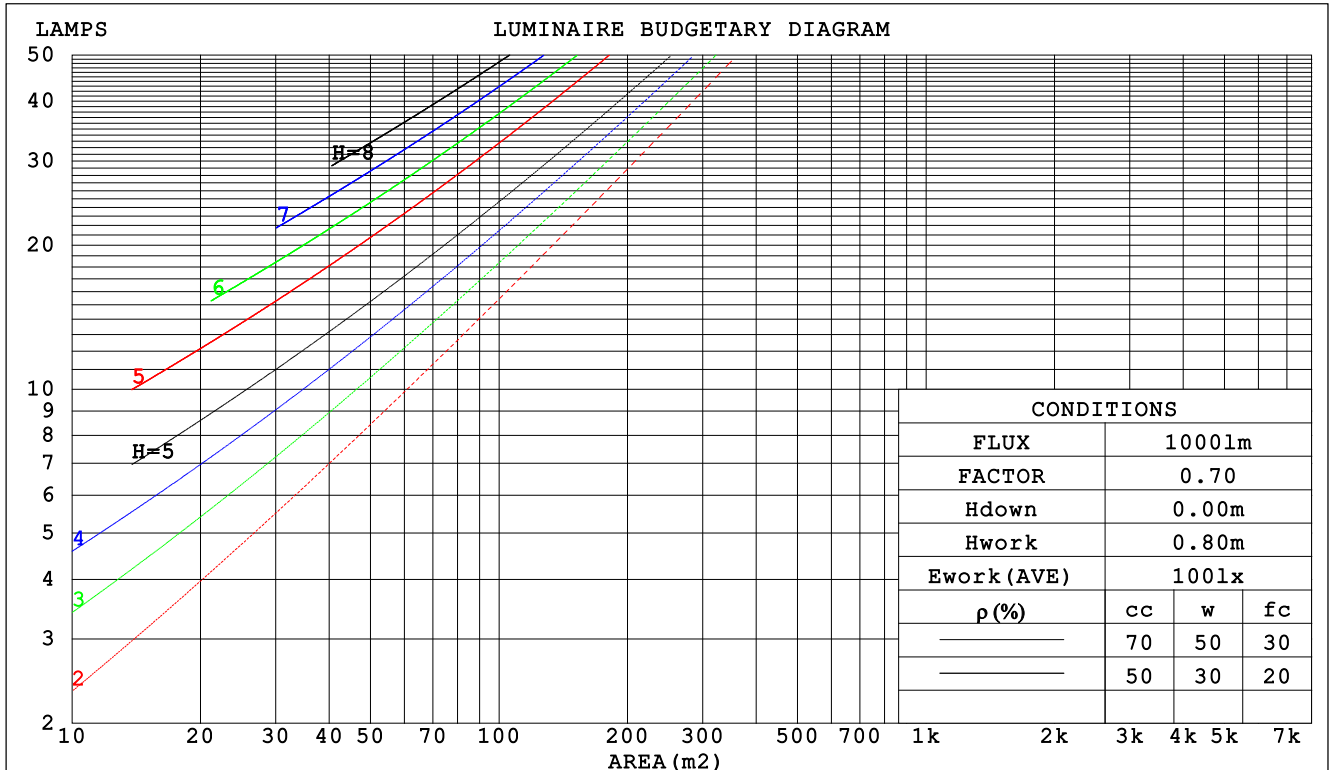
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:11 March 2025

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:239.9V I:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K CR100E: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	1.09	1.09	1.09	1.00	1.00	1.00	.92	.92	.92	.84	.84	.84	.81
1.0	.95	.90	.85	.91	.86	.81	.83	.79	.75	.76	.72	.70	.69	.66	.64	.61
2.0	.81	.73	.67	.78	.70	.64	.71	.65	.60	.64	.60	.56	.59	.55	.51	.48
3.0	.70	.61	.54	.67	.59	.52	.61	.54	.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:239.9V I:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K	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	.330	.190	.061	.309	.179	.058		
2.0	.336	.184	.056	.324	.179	.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	.119	.036	.207	.112	.034		
5.0	.243	.124	.036	.234	.120	.035	.217	.113	.033	.202	.107	.032	.187	.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	.339	.339	.339	.289	.289	.289	.198	.198	.198	.113	.113	.113	.036	.036	.036	
1.0	.335	.305	.277	.287	.262	.239	.196	.180	.165	.113	.104	.096	.036	.034	.031	
2.0	.328	.282	.243	.281	.243	.210	.193	.168	.147	.111	.098	.086	.036	.032	.028	
3.0	.321	.266	.222	.275	.229	.192	.189	.159	.135	.109	.093	.079	.035	.030	.026	
4.0	.313	.253	.207	.269	.219	.180	.185	.152	.127	.107	.089	.075	.034	.029	.025	
5.0	.306	.243	.198	.262	.211	.172	.181	.147	.121	.105	.086	.072	.034	.028	.024	
6.0	.298	.236	.191	.256	.204	.166	.177	.143	.117	.103	.084	.070	.033	.027	.023	
7.0	.291	.229	.186	.250	.198	.162	.173	.139	.115	.100	.082	.068	.032	.027	.023	
8.0	.284	.223	.182	.245	.194	.158	.169	.136	.112	.099	.080	.067	.032	.026	.022	
9.0	.278	.219	.179	.239	.190	.156	.166	.133	.111	.097	.079	.066	.031	.026	.022	
10.0	.272	.215	.176	.235	.186	.154	.163	.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:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm										
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K CRIDGE: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	13.0	14.3	13.5	14.8	15.4	16.0	17.4	16.6	17.9	18.5
3H	14.4	15.6	14.9	16.2	16.8	18.8	20.0	19.3	20.6	21.2
4H	14.9	16.1	15.5	16.7	17.4	20.3	21.5	20.9	22.1	22.7
6H	15.3	16.5	15.9	17.0	17.7	21.9	23.1	22.5	23.7	24.4
8H	15.4	16.5	16.1	17.1	17.8	22.9	24.0	23.5	24.6	25.3
12H	15.5	16.6	16.1	17.2	17.9	23.9	25.0	24.5	25.6	26.3
4H 2H	14.4	15.6	15.0	16.2	16.8	16.5	17.7	17.1	18.3	19.0
3H	16.1	17.2	16.7	17.8	18.5	19.6	20.6	20.2	21.2	21.9
4H	16.9	17.8	17.5	18.5	19.2	21.3	22.2	21.9	22.9	23.6
6H	17.5	18.4	18.2	19.0	19.8	23.2	24.0	23.8	24.7	25.5
8H	17.7	18.5	18.4	19.2	20.0	24.2	25.0	24.9	25.7	26.5
12H	17.9	18.6	18.6	19.3	20.1	25.4	26.2	26.1	26.8	27.7
8H 4H	18.2	19.0	18.9	19.7	20.5	21.6	22.4	22.3	23.1	23.9
6H	19.3	20.0	20.0	20.7	21.5	23.8	24.5	24.5	25.2	26.0
8H	19.8	20.4	20.5	21.1	21.9	25.1	25.7	25.8	26.4	27.3
12H	20.1	20.7	20.9	21.4	22.3	26.5	27.1	27.3	27.8	28.7
12H 4H	18.7	19.4	19.3	20.1	20.9	21.6	22.4	22.3	23.1	23.9
6H	20.0	20.6	20.7	21.3	22.2	23.9	24.5	24.6	25.3	26.1
8H	20.7	21.2	21.4	22.0	22.8	25.3	25.8	26.0	26.6	27.5
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 743.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.0)

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:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K	CR100E:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

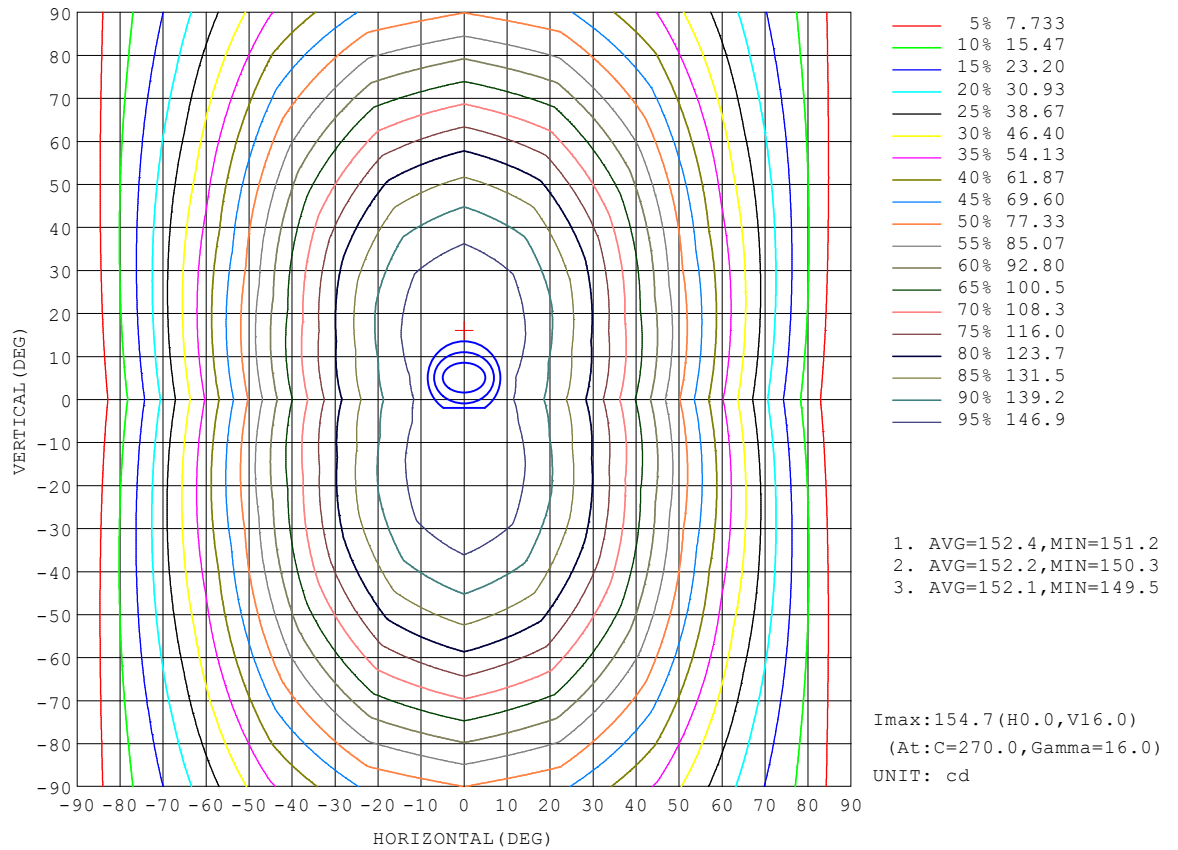
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	55	42	35	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	51	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	54
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:239.9V I:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K	CR100E:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

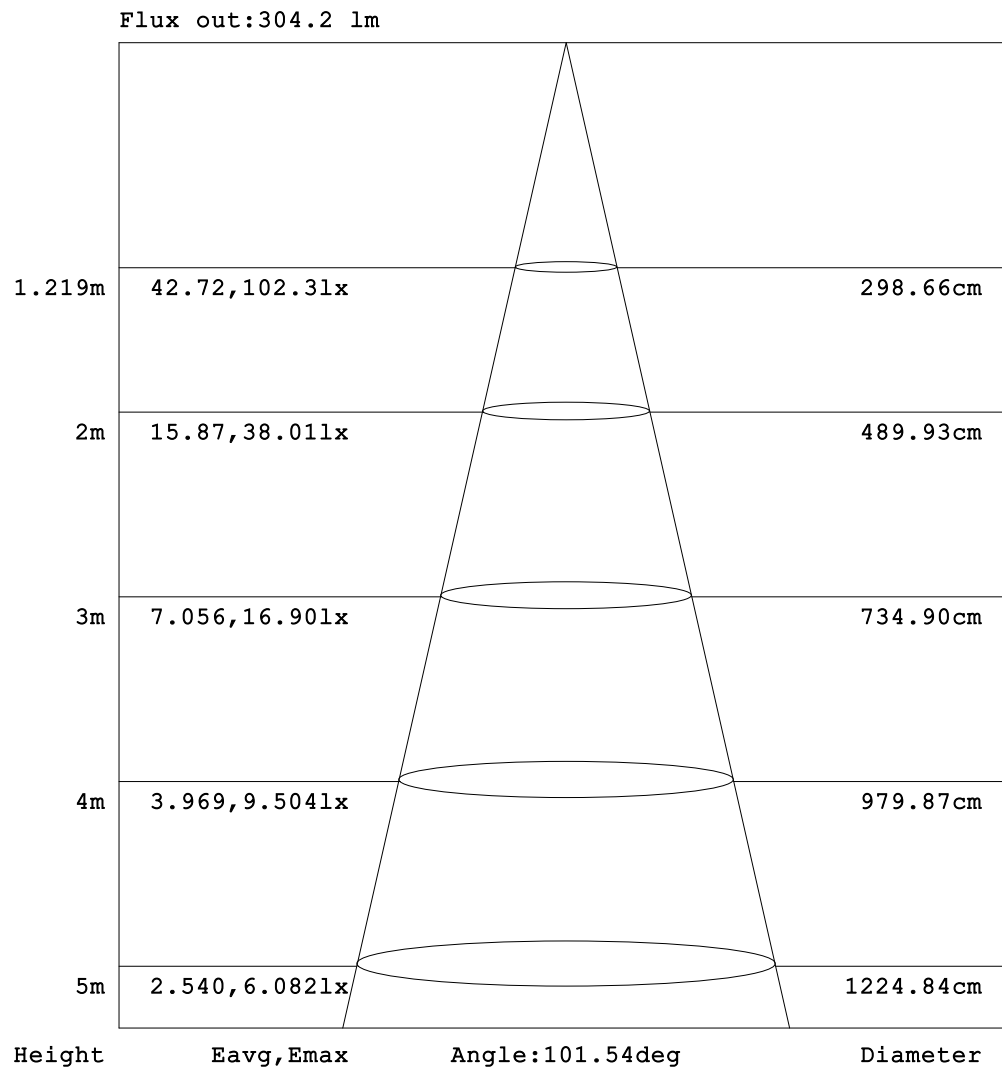


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 11 March 2025

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:

AAI Figure

Test:U:239.9V I:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K	CR100:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



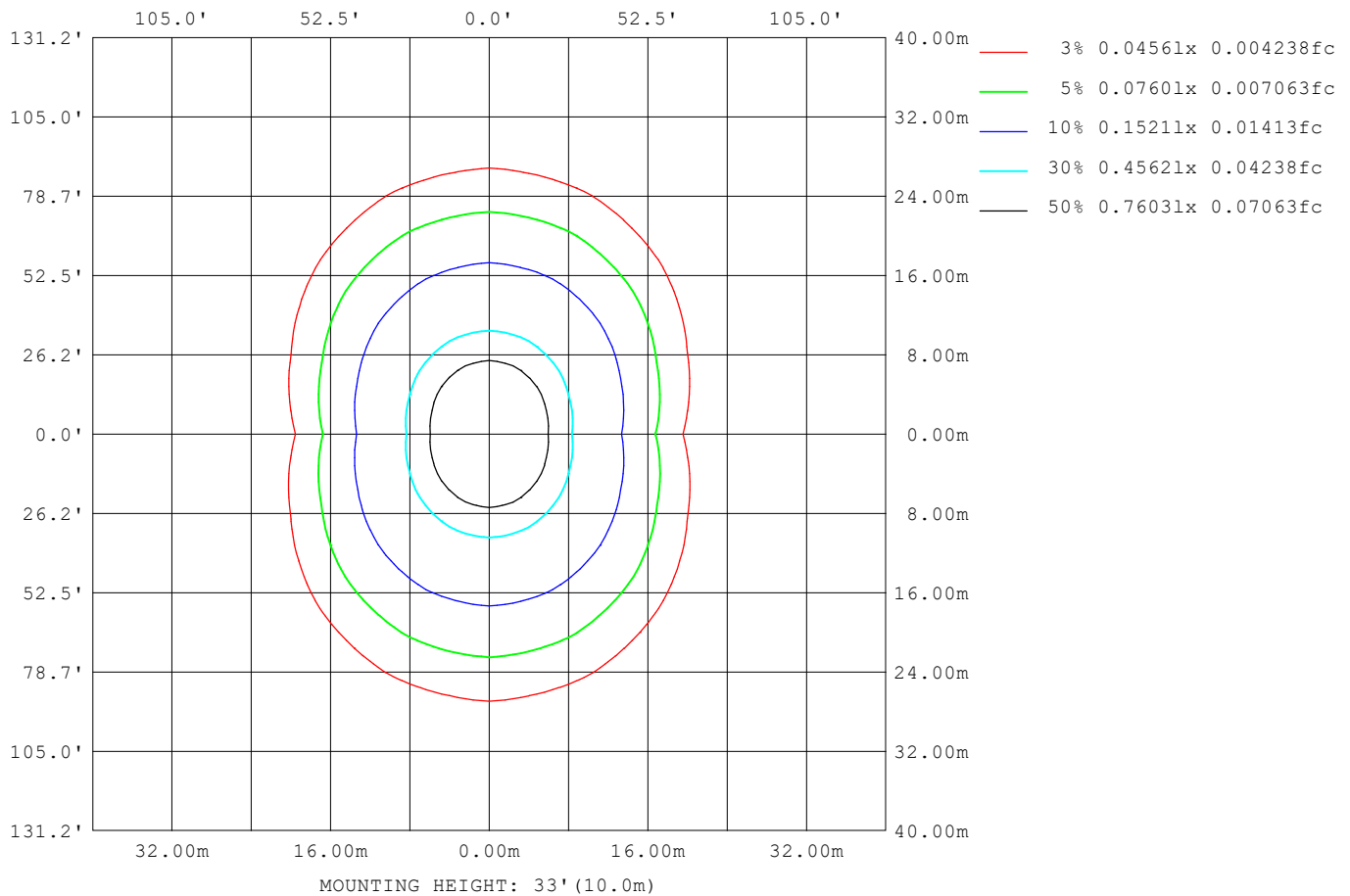
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.9V I:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K 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:0.0934A P:19.58W PF:0.8739 Lamp Flux:743.512x1 lm		
NAME: GRAZER TUBE_1015_NA_WHT_OPAL_DPAL 60_4000K	CR1000:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

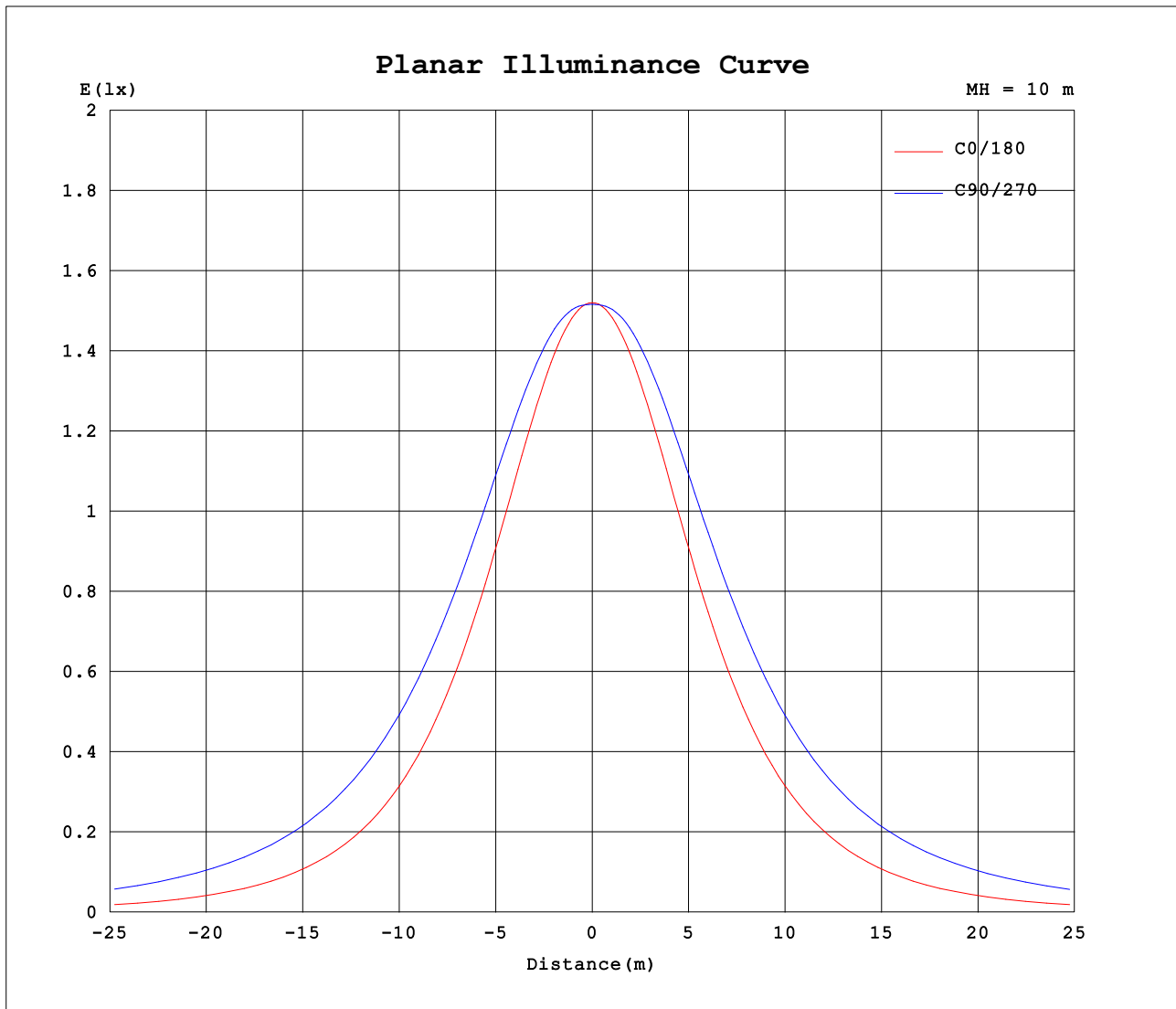
AvgL	cd/m2
L_0~180 (65) av	1369
L_0~180 (75) av	1121
L_0~180 (85) av	726
L_90~270 (65) av	3621
L_90~270 (75) av	5145
L_90~270 (85) av	12984
L_45 (65) av	2789
L_45 (75) av	3769
L_45 (85) av	9118

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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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	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152			
5	151	151	152	152	153	152	152	151	151	151	152	152	153	152	152	151			
10	148	149	151	153	154	153	151	149	148	149	151	153	154	153	151	149			
15	143	146	150	153	154	153	150	146	143	146	150	153	155	154	150	146			
20	137	141	147	152	154	152	147	141	137	141	147	153	155	153	148	141			
25	129	135	143	150	153	150	143	135	129	135	144	151	153	151	144	135			
30	120	127	138	147	151	147	138	127	121	127	139	148	151	148	139	128			
35	111	119	133	144	148	144	133	119	111	119	133	144	148	144	133	119			
40	100.0	110	126	139	144	139	126	110	100	110	126	139	144	139	127	110			
45	88.9	101	119	134	140	134	119	101	89.1	101	119	133	139	134	120	101			
50	77.6	91.3	112	128	134	128	112	91.5	77.7	91.0	112	127	134	128	112	91.4			
55	66.1	81.5	104	122	129	122	104	81.7	66.2	81.1	104	121	127	121	104	81.5			
60	54.6	71.8	96.2	115	122	115	96.3	72.0	54.7	71.3	95.7	114	121	114	96.1	71.7			
65	43.2	62.2	88.3	108	115	108	88.5	62.5	43.3	61.7	87.7	107	114	107	88.1	62.1			
70	32.2	53.1	80.6	101	108	101	80.8	53.5	32.2	52.6	80.0	99.5	106	99.9	80.4	53.0			
75	21.7	44.7	73.1	93.0	100	93.1	73.3	45.0	21.7	44.2	72.6	92.3	98.9	92.6	73.0	44.7			
80	12.3	37.2	65.8	85.6	92.6	85.7	66.1	37.5	12.3	36.8	65.7	85.2	91.6	85.5	66.1	37.2			
85	4.80	30.7	59.2	78.4	85.0	78.5	59.5	31.1	4.67	30.6	59.4	78.1	84.3	78.5	59.7	31.1			
90	1.53	25.6	53.1	71.3	77.5	71.4	53.3	26.0	1.12	25.9	53.5	71.3	77.1	71.7	53.9	26.3			
95	1.20	21.6	47.1	64.1	69.9	64.3	47.3	21.8	0.97	21.6	47.4	63.6	69.4	64.5	47.7	22.1			
100	0.35	18.4	41.8	57.5	62.7	57.6	41.9	18.7	0.36	18.5	41.9	56.4	62.3	57.7	42.3	18.9			
105	0.39	16.1	36.9	51.3	56.1	51.4	36.7	16.1	0.39	15.7	36.3	50.3	55.8	51.5	37.4	16.4			
110	0.44	14.2	32.6	45.5	49.9	45.7	31.2	13.6	0.44	13.2	31.5	44.7	49.7	45.7	33.0	14.4			
115	0.52	12.6	28.8	40.3	44.2	40.4	27.1	11.8	0.49	11.3	26.8	39.5	44.0	40.4	29.0	12.7			
120	0.57	11.2	25.3	35.5	39.0	34.9	22.9	9.49	0.53	9.22	21.7	34.5	38.7	35.5	25.5	11.2			
125	0.64	9.96	22.1	31.1	34.2	30.5	18.4	7.53	0.59	7.62	17.7	29.7	33.4	31.0	22.2	9.81			
130	0.71	8.76	19.3	27.0	29.8	25.4	15.1	6.28	0.64	6.34	13.9	25.1	28.6	26.9	19.3	8.15			
135	0.76	7.37	16.7	23.4	25.7	20.7	12.5	5.38	0.68	5.27	11.8	19.9	24.4	23.1	16.6	6.99			
140	0.83	5.84	14.3	19.9	21.9	16.4	10.2	4.53	0.74	4.32	9.65	15.7	20.9	19.6	14.1	5.93			
145	0.88	4.67	12.0	16.7	18.4	13.0	7.75	3.66	0.78	3.42	7.66	11.6	17.6	16.4	11.5	4.59			
150	0.93	3.76	9.76	13.7	15.1	9.07	6.20	3.20	0.83	2.92	6.01	8.58	14.1	13.0	9.32	3.81			
155	0.97	3.21	7.03	10.9	11.9	6.51	4.88	2.75	0.89	2.61	4.64	6.61	11.0	10.3	7.38	3.11			
160	0.9991	2.69	5.17	7.43	8.03	4.96	3.94	2.46	0.94	2.24	3.63	4.70	8.35	7.75	5.27	2.43			
165	1.03	2.15	3.73	4.95	5.37	3.37	3.09	2.14	0.99	1.85	2.92	3.13	5.35	5.05	3.67	1.87			
170	1.05	1.71	2.68	3.34	2.38	2.33	2.37	1.77	1.03	1.45	2.12	2.17	2.19	3.11	2.39	1.43			
175	1.05	1.39	1.75	1.97	1.56	1.65	1.73	1.45	1.05	1.12	1.35	1.46	1.35	1.65	1.38	1.09			
180	1.06	1.06	1.10	1.10	1.01	1.08	1.19	1.19	1.05	1.06	1.06	1.06	1.00	1.08	1.17	1.18			

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