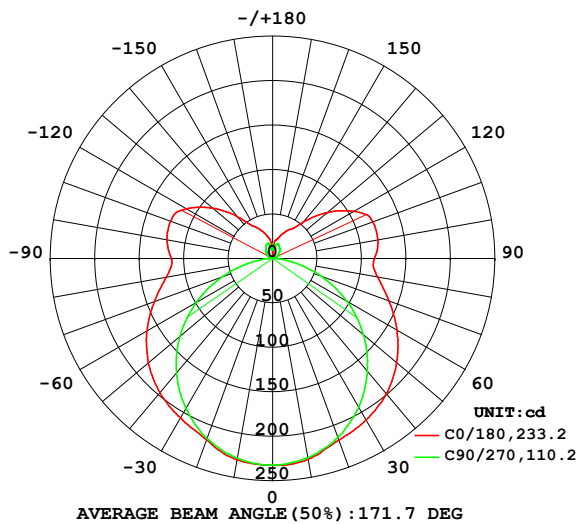


LUMINAIRE PHOTOMETRIC TEST REPORT

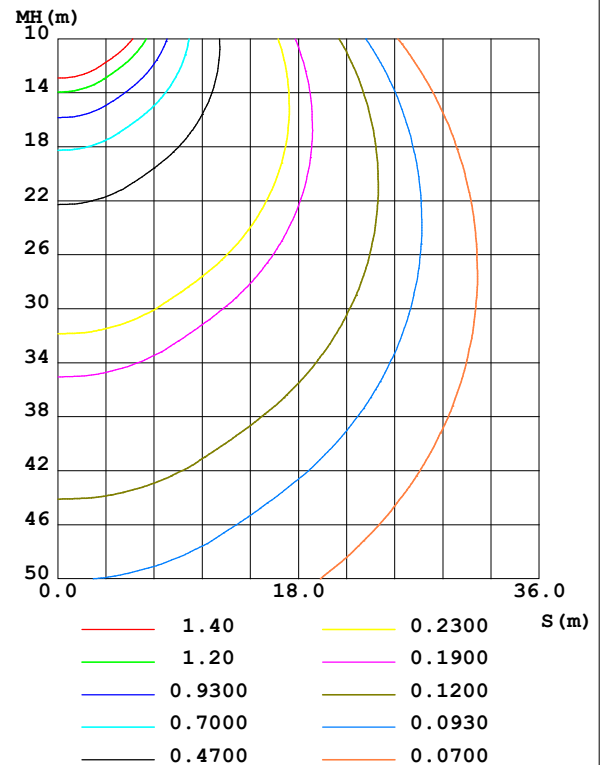
Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.1lx1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 49.57 lm/W
MODEL		Imax (cd)	233.1	S/MH (C0/180)	1.35	
NOMINAL POWER(W)		LOR (%)	100.0	S/MH (C90/270)	1.25	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1192.1	η UP,DN (C0-180)	14.0,35.7	
NOMINAL FLUX(lm)	1192.11	CIE CLASS	SEMI-D.	η UP,DN (C180-360)	14.2,36.1	
LAMPS INSIDE	1	η up (%)	28.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120	η down (%)	71.8	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: 25.2°C
Operators: Dano
Test Date: 2023-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 55.3%
Test Distance: 2.900m [K=0.8810]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	229.2	229.2	227.6	229.2	230.1	229.9	228.2	229.8	0- 10	22.05	22.05	1.85,1.85
20	217.6	215.9	214.4	216.4	217.1	218.2	215.6	216.4	10- 20	63.18	85.24	7.15,7.15
30	209.9	198.9	193.6	197.0	207.1	198.8	194.9	199.4	20- 30	96.35	181.6	15.2,15.2
40	198.9	181.4	165.7	179.2	197.0	181.3	168.3	182.8	30- 40	120.0	301.5	25.3,25.3
50	181.8	160.4	133.3	159.4	182.8	161.0	135.9	162.8	40- 50	131.9	433.4	36.4,36.4
60	161.6	134.8	96.77	136.3	163.4	137.0	99.34	138.6	50- 60	131.1	564.5	47.4,47.4
70	139.0	106.4	57.65	110.4	141.5	109.7	59.88	111.4	60- 70	118.0	682.5	57.3,57.3
80	119.9	80.86	20.57	85.72	121.5	83.35	22.26	86.37	70- 80	96.24	778.8	65.3,65.3
90	114.8	71.57	0.3824	76.44	114.0	71.01	0.4406	77.62	80- 90	76.79	855.6	71.8,71.8
100	120.2	76.51	1.798	82.69	120.8	77.01	1.799	82.83	90-100	76.37	931.9	78.2,78.2
110	120.1	75.25	4.275	83.20	122.2	78.61	4.118	81.76	100-110	76.56	1008	84.6,84.6
120	106.1	59.99	7.039	68.63	112.1	64.67	6.627	65.39	110-120	66.12	1075	90.1,90.1
130	80.51	38.84	9.869	50.30	88.19	46.34	9.511	44.84	120-130	48.24	1123	94.2,94.2
140	53.22	27.24	12.65	35.93	61.01	34.36	11.44	33.42	130-140	31.03	1154	96.8,96.8
150	37.53	23.10	15.50	30.95	41.67	31.31	14.74	25.82	140-150	18.99	1173	98.4,98.4
160	28.01	20.76	17.56	24.65	32.16	27.99	17.58	20.32	150-160	11.86	1185	99.4,99.4
170	20.97	14.05	12.26	19.96	22.89	22.35	11.40	14.58	160-170	5.989	1191	99.9,99.9
180	0	7.903	16.91	11.30	3.772	4.065	14.08	13.79	170-180	1.391	1192	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 366.78 lm

%lum = 30.8%

%lamp = 30.8%

Conical surface Flux(120deg): 564.5 lm

%lum = 47.4%

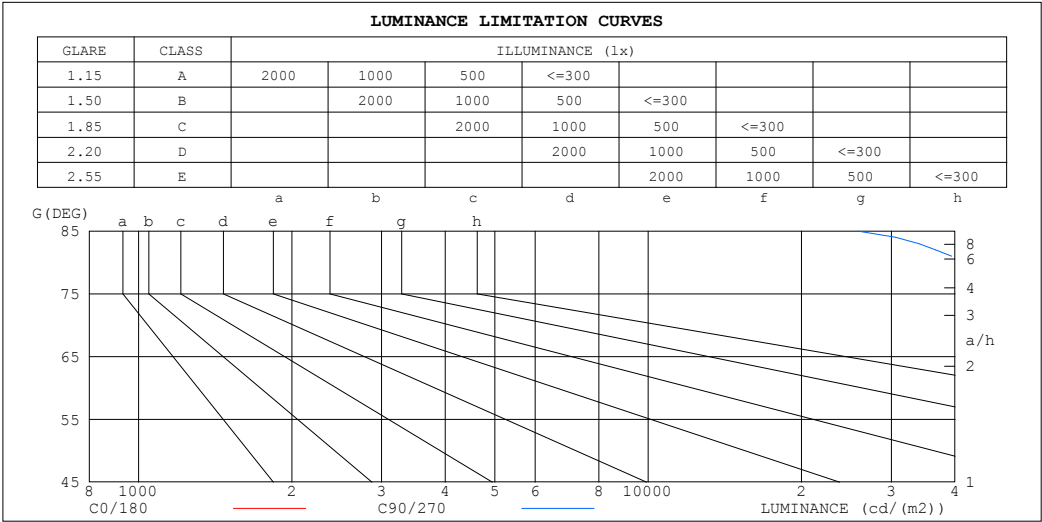
%lamp = 47.4%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2℃
 Operators:Dano
 Test Date:2023-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:55.3%
 Test Distance:2.900m [K=0.8810]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.11x1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	464181	25850
80	245046	41964
75	176448	52162
70	144226	59717
65	126214	64761
60	114691	68563
55	106590	71320
50	100342	73482
45	95929	75288

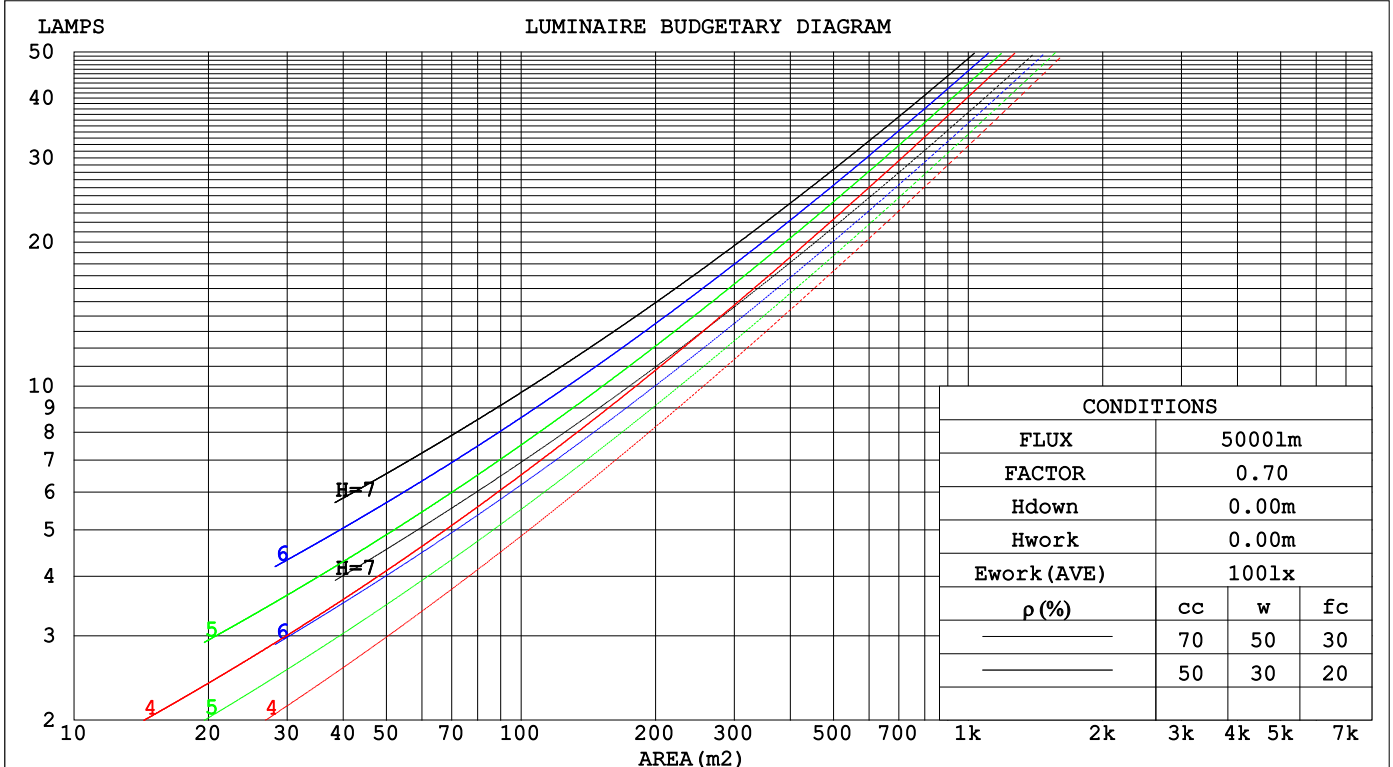
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2023-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:55.3%
Test Distance:2.900m [K=0.8810]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.11x1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.12	1.12	1.12	1.06	1.06	1.06	.95	.95	.95	.85	.85	.85	.76	.76	.76	.72
1.0	.94	.89	.84	.89	.85	.80	.80	.76	.73	.71	.68	.65	.63	.61	.59	.55
2.0	.81	.73	.67	.76	.70	.64	.68	.63	.58	.61	.56	.53	.54	.50	.47	.44
3.0	.70	.61	.54	.66	.59	.52	.59	.53	.48	.53	.48	.43	.47	.43	.39	.36
4.0	.62	.52	.45	.58	.50	.44	.52	.45	.40	.47	.41	.36	.41	.37	.33	.30
5.0	.55	.45	.39	.52	.43	.37	.47	.40	.34	.42	.36	.31	.37	.32	.28	.25
6.0	.49	.40	.33	.46	.38	.32	.42	.35	.30	.37	.32	.27	.33	.29	.25	.22
7.0	.44	.35	.29	.42	.34	.28	.38	.31	.26	.34	.28	.24	.30	.25	.22	.19
8.0	.40	.31	.26	.38	.30	.25	.34	.28	.23	.31	.25	.21	.28	.23	.19	.17
9.0	.37	.28	.23	.35	.27	.22	.32	.25	.20	.29	.23	.19	.26	.21	.17	.15
10.0	.34	.26	.20	.32	.25	.20	.29	.23	.18	.26	.21	.17	.24	.19	.16	.14



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2023-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:55.3%
Test Distance:2.900m [K=0.8810]
Remarks:

WEC AND CCEC

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.11x1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	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	.367	.209	.066	.351	.200	.064	.322	.185	.059	.294	.170	.055	.269	.156	.050															
2.0	.320	.175	.054	.305	.168	.052	.279	.155	.048	.254	.142	.045	.231	.131	.041															
3.0	.285	.152	.045	.272	.146	.044	.248	.134	.041	.225	.124	.038	.205	.113	.035															
4.0	.258	.134	.039	.246	.129	.038	.224	.119	.035	.203	.109	.033	.184	.100	.030															
5.0	.235	.120	.035	.224	.115	.034	.204	.106	.031	.185	.098	.029	.167	.089	.027															
6.0	.216	.108	.031	.206	.104	.030	.187	.096	.028	.170	.088	.026	.154	.081	.024															
7.0	.199	.099	.028	.190	.095	.027	.173	.088	.025	.157	.081	.023	.142	.074	.022															
8.0	.185	.090	.025	.177	.087	.025	.161	.080	.023	.146	.074	.021	.132	.068	.020															
9.0	.173	.083	.023	.165	.080	.023	.150	.074	.021	.136	.068	.020	.123	.063	.018															
10.0	.162	.078	.022	.155	.075	.021	.141	.069	.019	.128	.064	.018	.116	.058	.017															

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	.406	.406	.406	.347	.347	.347	.237	.237	.237	.136	.136	.136	.043	.043	.043	
1.0	.401	.373	.347	.343	.320	.298	.235	.220	.206	.135	.127	.120	.043	.041	.039	
2.0	.394	.350	.313	.338	.301	.271	.231	.208	.189	.133	.121	.111	.043	.039	.036	
3.0	.387	.334	.292	.332	.288	.253	.228	.200	.177	.132	.117	.105	.042	.038	.034	
4.0	.379	.322	.278	.326	.278	.241	.224	.194	.170	.130	.113	.100	.042	.037	.033	
5.0	.372	.312	.268	.319	.270	.233	.220	.189	.164	.127	.111	.098	.041	.036	.032	
6.0	.365	.304	.261	.314	.263	.227	.216	.184	.161	.126	.108	.095	.040	.035	.032	
7.0	.358	.298	.256	.308	.258	.223	.213	.181	.158	.124	.107	.094	.040	.035	.031	
8.0	.352	.292	.252	.303	.254	.219	.209	.178	.156	.122	.105	.093	.039	.034	.031	
9.0	.346	.288	.249	.298	.250	.217	.206	.176	.154	.120	.104	.092	.039	.034	.030	
10.0	.340	.284	.246	.293	.246	.215	.203	.173	.153	.119	.102	.091	.038	.034	.030	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2023-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:55.3%
Test Distance:2.900m [K=0.8810]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.1lx1 lm											
NAME: VN27-24-25S-952C5-MVTD-BN 3000K					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.					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	25.0	27.4	26.4	28.8	30.5	22.4	24.9	23.8	26.3	27.9	
	3H	27.6	29.8	29.0	31.3	33.0	23.9	26.1	25.3	27.6	29.3
	4H	29.0	31.1	30.4	32.6	34.3	24.3	26.4	25.8	27.9	29.7
	6H	30.5	32.5	32.0	34.0	35.8	24.6	26.5	26.0	28.0	29.8
	8H	31.4	33.3	32.8	34.8	36.6	24.6	26.5	26.1	28.0	29.8
	12H	32.4	34.2	33.9	35.7	37.6	24.5	26.3	26.0	27.9	29.7
4H 2H	25.1	27.2	26.5	28.7	30.5	23.3	25.4	24.8	26.9	28.7	
	3H	28.0	29.8	29.5	31.4	33.2	25.1	26.9	26.6	28.4	30.3
	4H	29.6	31.2	31.1	32.8	34.7	25.7	27.4	27.3	29.0	30.9
	6H	31.3	32.8	32.9	34.4	36.3	26.1	27.6	27.7	29.2	31.2
	8H	32.3	33.7	33.9	35.3	37.3	26.2	27.6	27.8	29.2	31.2
	12H	33.5	34.8	35.1	36.4	38.4	26.2	27.5	27.8	29.1	31.1
8H	4H	29.7	31.1	31.3	32.7	34.6	26.7	28.1	28.3	29.8	31.7
	6H	31.7	32.9	33.4	34.6	36.6	27.6	28.7	29.2	30.4	32.4
	8H	33.0	34.0	34.6	35.7	37.8	27.9	28.9	29.5	30.6	32.6
	12H	34.4	35.4	36.1	37.1	39.2	28.0	29.0	29.7	30.7	32.8
12H	4H	29.6	30.9	31.2	32.6	34.5	27.1	28.4	28.7	30.0	32.0
	6H	31.8	32.8	33.5	34.5	36.6	28.2	29.2	29.8	30.9	33.0
	8H	33.1	34.1	34.8	35.8	37.9	28.7	29.6	30.4	31.3	33.4
CIE190: 2010											

CIE190: 2010
Area: 0.002827 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2023-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:55.3%
Test Distance:2.900m [K=0.8810]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.11x1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:

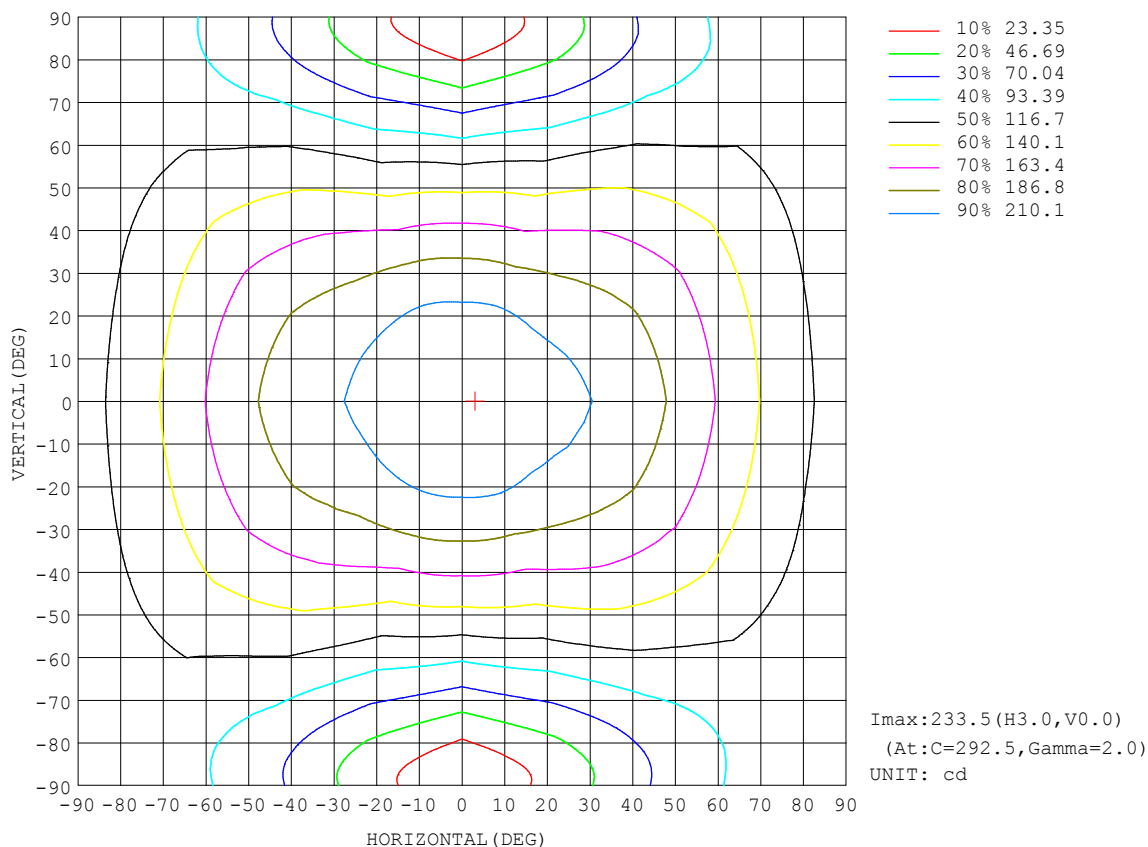
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	45	33	26	44	32	26	42	31	25	18
0.80	54	42	34	53	41	33	49	39	32	24
1.00	62	49	41	60	48	40	55	47	38	29
1.25	69	56	48	66	55	47	61	51	44	34
1.50	74	62	53	71	60	52	65	56	49	37
2.00	82	70	62	78	68	60	71	63	56	43
2.50	86	76	68	82	73	66	74	67	61	46
3.00	90	80	73	85	77	70	77	71	65	49
4.00	95	87	80	90	83	77	81	75	71	53
5.00	98	91	85	93	86	81	83	79	74	56
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: 25.2℃
 Operators: Dano
 Test Date: 2023-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity: 55.3%
 Test Distance: 2.900m [K=0.8810]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.1lx1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:

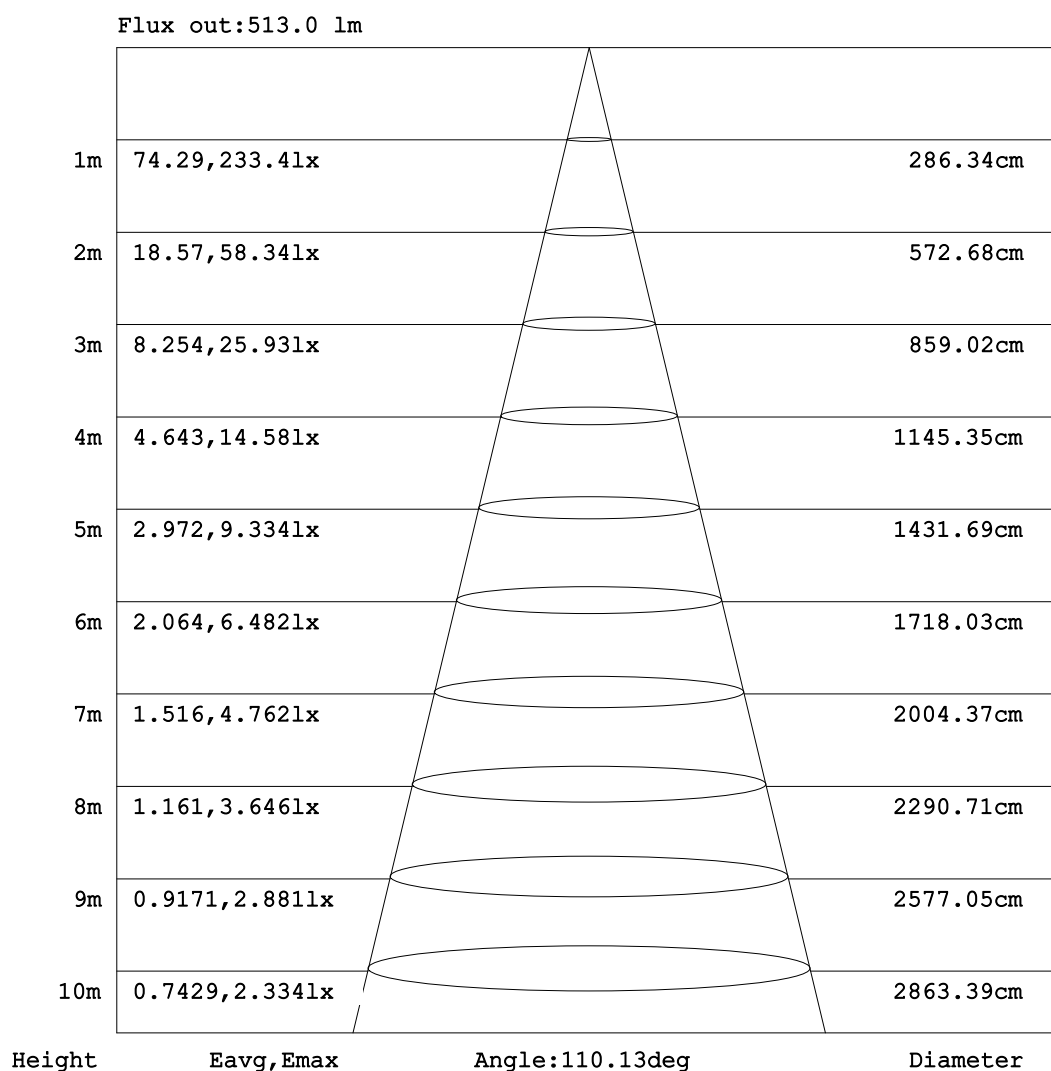


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2023-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:55.3%
Test Distance:2.900m [K=0.8810]
Remarks:

AAI Figure

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.11x1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:



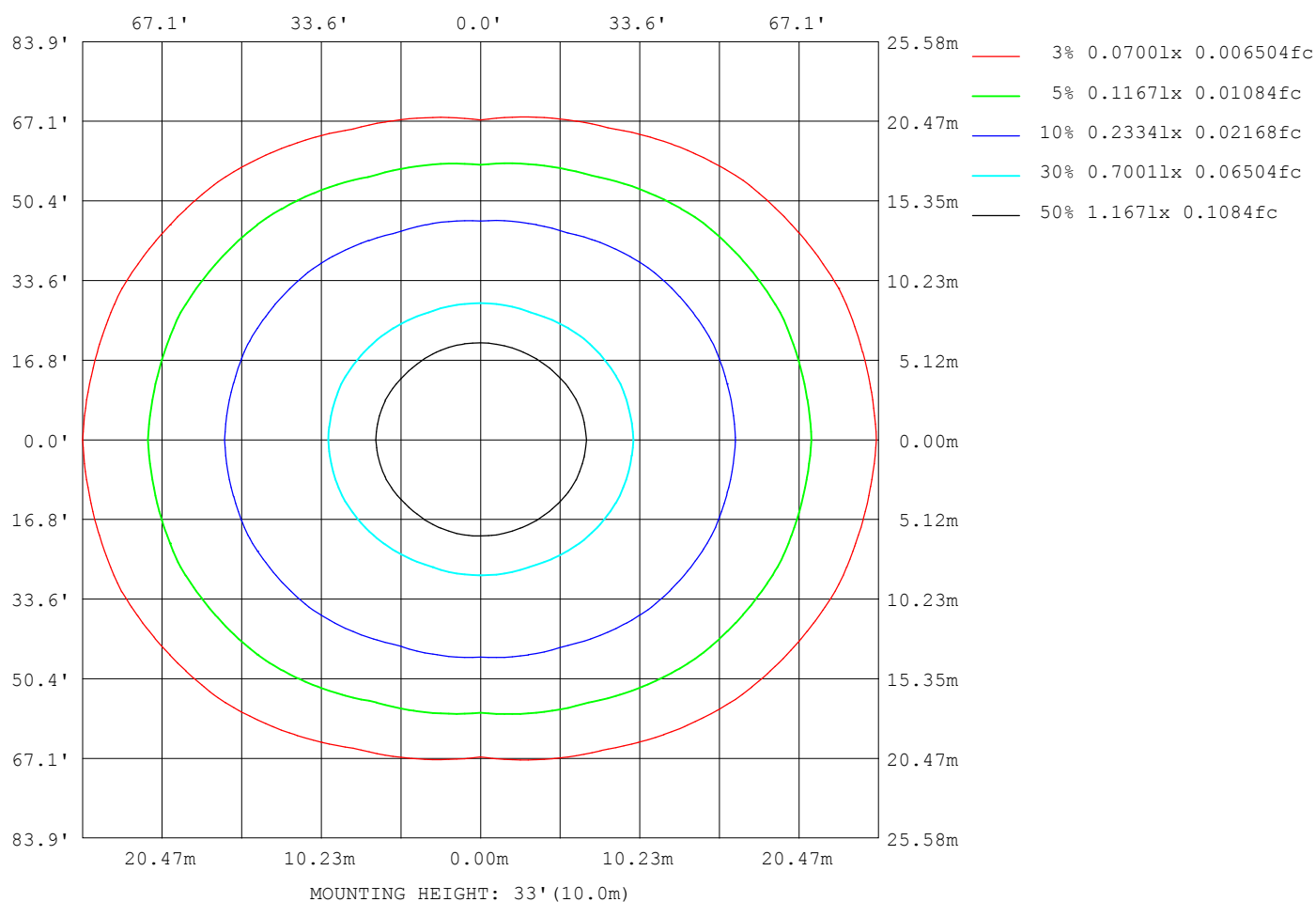
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2023-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:55.3%
Test Distance:2.900m [K=0.8810]
Remarks:

ISOLUX DIAGRAM

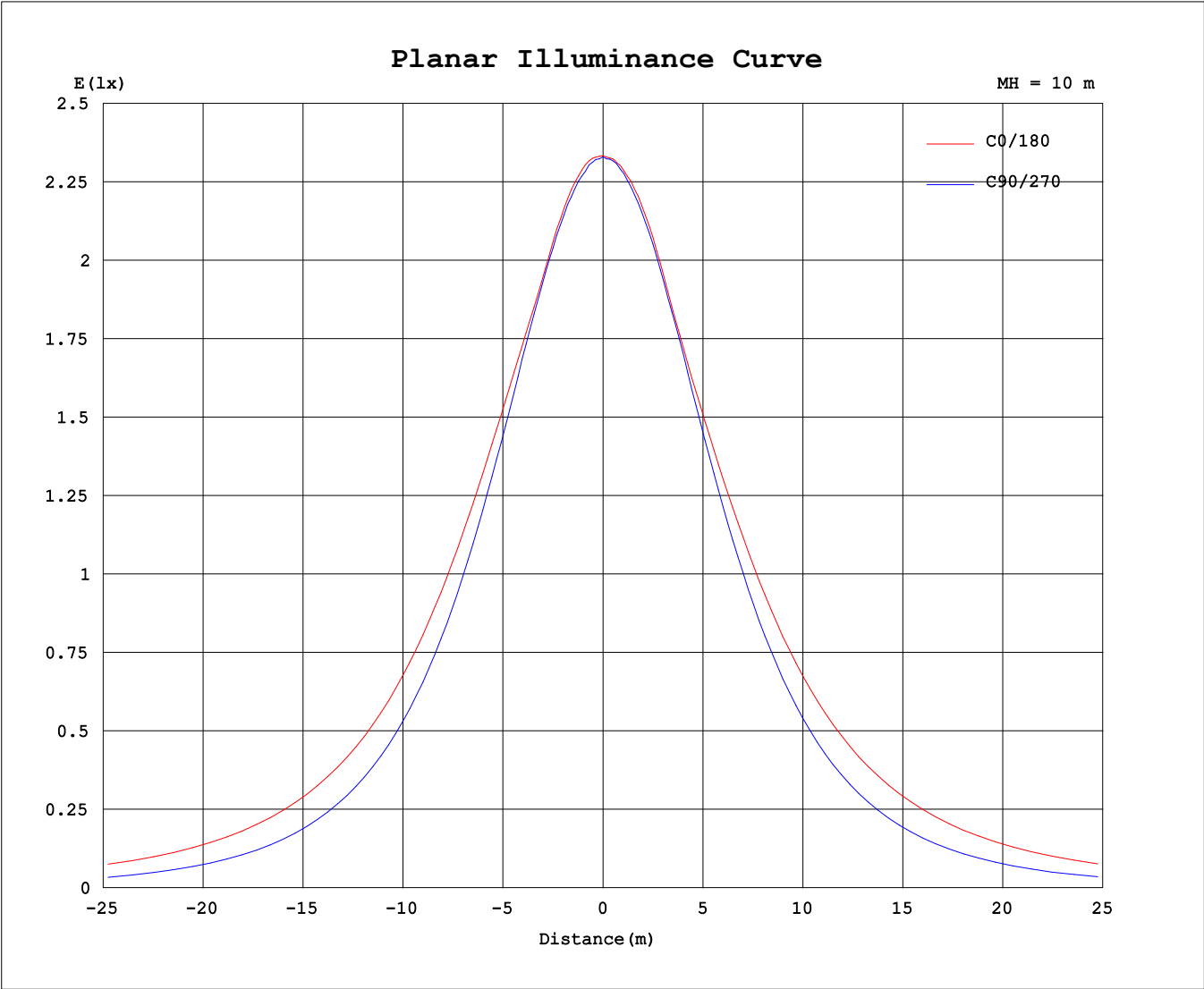
Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.1lx1 lm		
NAME: VN27-24-25S-952C5-MVTD-BN 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2°C
Operators: Dano
Test Date: 2023-05-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 55.3%
Test Distance: 2.900m [K=0.8810]
Remarks:

Planar Illuminance Curve



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γ Range: 0 - 180DEG
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.2012A P:24.05W PF:0.9951 Freq:60.01Hz Lamp Flux:1192.11x1 lm																	
NAME: VN27-24-25S-952C5-MVTD-BN 3000K									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.									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	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233			
5	232	232	232	232	231	232	232	232	232	232	232	232	231	232	232	232			
10	229	229	229	228	228	228	229	229	230	230	230	229	228	229	230	230			
15	223	223	224	224	222	223	224	225	225	225	226	224	223	224	224	224			
20	218	216	216	216	214	216	216	217	217	217	218	217	216	217	216	217			
25	214	211	207	207	205	207	207	210	212	211	208	209	206	208	208	212			
30	210	206	199	195	194	196	197	204	207	205	199	198	195	197	199	207			
35	205	201	190	182	180	183	188	199	203	200	190	185	183	183	191	202			
40	199	194	181	168	166	168	179	192	197	193	181	171	168	169	183	195			
45	191	185	171	154	150	153	170	185	191	185	172	156	153	155	174	187			
50	182	176	160	139	133	138	159	176	183	177	161	141	136	141	163	178			
55	172	165	148	125	115	123	148	167	173	167	150	126	118	127	151	168			
60	162	154	135	109	96.8	108	136	157	163	156	137	111	99.3	112	139	157			
65	150	141	121	93.3	77.3	92.8	124	145	153	145	124	94.9	79.8	96.1	125	145			
70	139	129	106	76.8	57.7	77.2	110	133	142	133	110	78.6	59.9	79.8	111	133			
75	129	118	92.7	60.6	38.1	61.7	97.1	122	131	121	95.7	62.5	40.3	63.8	97.9	122			
80	120	108	80.9	45.5	20.6	47.3	85.7	113	122	110	83.4	47.3	22.3	49.0	86.4	112			
85	114	101	72.6	34.8	6.36	36.9	77.5	106	115	103	74.0	35.6	7.59	38.3	78.5	106			
90	115	102	71.6	32.6	0.38	35.0	76.4	105	114	101	71.0	31.5	0.44	36.0	77.6	106			
95	118	105	74.5	35.1	0.58	38.4	80.0	109	118	104	74.3	34.7	0.58	38.9	80.8	110			
100	120	107	76.5	37.2	1.80	41.0	82.7	112	121	107	77.0	37.5	1.80	41.2	82.8	112			
105	121	108	77.6	33.5	2.99	38.4	84.6	113	122	109	78.8	35.3	2.92	38.1	84.1	112			
110	120	107	75.3	28.3	4.28	34.3	83.2	114	122	109	78.6	30.8	4.12	33.3	81.8	112			
115	117	102	68.3	21.9	5.60	29.4	76.6	110	121	107	72.3	25.7	5.31	27.8	74.3	107			
120	106	92.5	60.0	17.4	7.04	25.5	68.6	101	112	98.1	64.7	20.4	6.63	24.2	65.4	97.0			
125	93.7	81.3	50.8	17.3	8.46	24.7	59.7	90.2	101	87.6	56.1	18.5	8.07	23.2	54.1	85.3			
130	80.5	69.2	38.8	17.7	9.87	23.8	50.3	78.3	88.2	76.0	46.3	15.8	9.51	22.1	44.8	72.7			
135	66.8	56.8	30.9	18.0	11.3	22.8	41.4	65.7	74.8	64.4	38.3	16.4	10.5	20.7	36.9	59.6			
140	53.2	44.9	27.2	17.9	12.7	21.9	35.9	52.0	61.0	52.7	34.4	17.7	11.4	19.3	33.4	45.3			
145	42.1	38.2	24.6	17.4	14.0	21.3	33.9	43.3	48.7	43.0	32.7	19.5	13.2	18.1	29.7	35.6			
150	37.5	34.3	23.1	16.9	15.5	20.6	30.9	38.9	41.7	39.3	31.3	21.1	14.7	17.2	25.8	34.2			
155	32.8	28.2	21.9	17.2	16.7	20.2	28.1	34.6	37.0	35.7	30.0	21.8	16.9	15.4	22.2	29.1			
160	28.0	21.2	20.8	17.5	17.6	20.2	24.6	29.4	32.2	31.7	28.0	21.9	17.6	16.0	20.3	24.4			
165	23.4	19.1	20.1	17.8	16.3	18.2	22.4	25.7	27.1	27.1	24.9	21.7	17.6	16.7	18.9	21.7			
170	21.0	17.6	14.1	11.4	12.3	14.7	20.0	22.6	22.9	22.9	22.4	20.3	11.4	11.5	14.6	18.0			
175	15.7	10.4	9.88	10.8	11.8	12.6	13.2	18.1	16.8	16.9	18.8	11.4	10.1	10.9	11.5	11.8			
180	0.00	2.84	7.90	14.8	16.9	14.9	11.3	7.83	3.77	3.81	4.06	8.80	14.1	15.9	13.8	11.2			

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