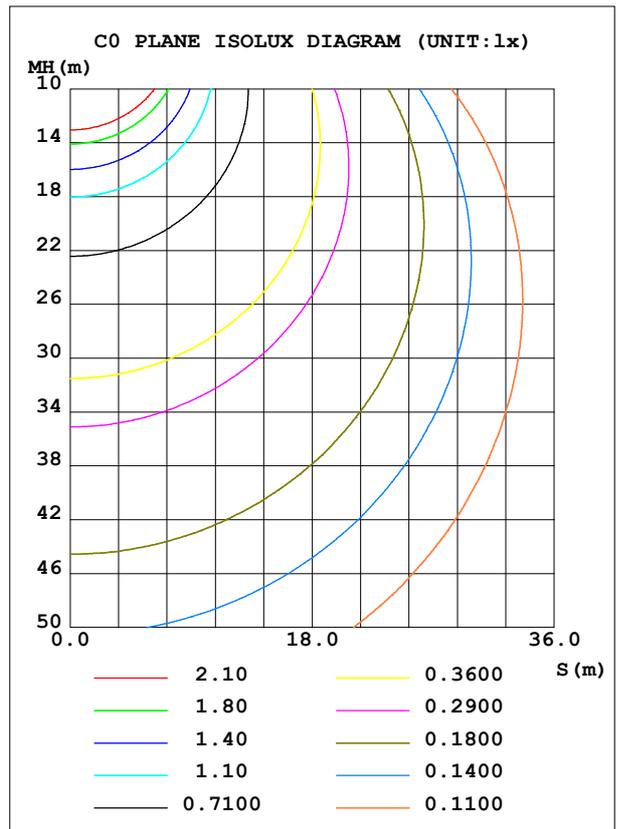
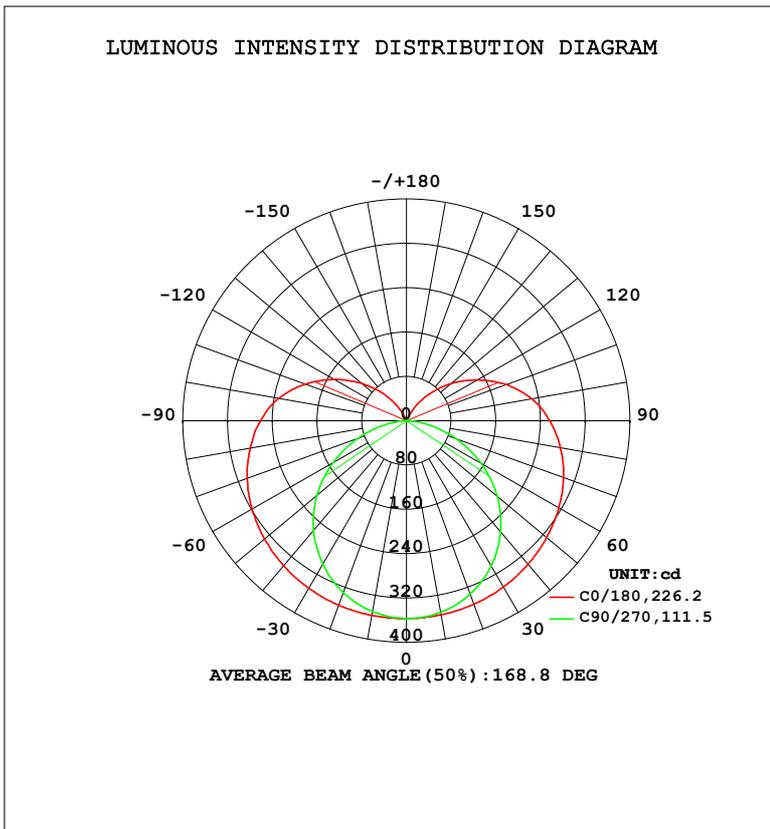


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.77 lm/W
MODEL	VN25-24-25S-952C5-MVTD-BK	I _{max} (cd)	357.2	S/MH (C0/180)	1.49	
NOMINAL POWER (W)	25	LOR (%)	100.0	S/MH (C90/270)	1.25	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2022.4	η UP, DN (C0-180)	11.6, 38.5	
NOMINAL FLUX (lm)	2022.42	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.7, 38.2	
LAMPS INSIDE	1	η up (%)	23.3	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	120	η down (%)	76.7	CIBSE SHR MAX	1.55	



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2 °C
 Operators: Dano
 Test Date: 2022-09-07

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=0.8817]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	355.7	353.5	351.3	354.5	356.9	353.1	349.5	352.4	0- 10	33.90	33.90	1.68,1.68
20	352.4	343.0	333.1	344.7	354.3	342.4	330.0	340.8	10- 20	98.62	132.5	6.55,6.55
30	346.6	326.3	303.1	327.6	349.3	325.2	299.2	322.7	20- 30	154.5	287.0	14.2,14.2
40	338.2	304.2	262.1	305.2	341.9	303.0	259.0	299.6	30- 40	196.8	483.8	23.9,23.9
50	327.6	278.5	212.0	279.1	331.5	277.6	208.9	274.1	40- 50	222.8	706.5	34.9,34.9
60	314.7	251.4	154.7	251.4	319.2	251.2	152.0	246.8	50- 60	231.7	938.2	46.4,46.4
70	299.2	224.6	94.08	223.5	303.3	224.2	91.47	219.7	60- 70	225.0	1163	57.5,57.5
80	279.7	199.0	35.73	196.8	283.8	198.2	34.76	194.0	70- 80	206.6	1370	67.7,67.7
90	256.2	174.1	1.284	171.2	261.1	173.1	1.270	169.4	80- 90	181.7	1552	76.7,76.7
100	228.0	148.2	1.351	144.8	232.4	147.1	1.346	144.3	90-100	156.8	1708	84.5,84.5
110	190.5	117.3	1.294	112.9	193.1	114.8	1.283	113.6	100-110	125.7	1834	90.7,90.7
120	147.6	84.86	1.182	80.13	149.1	82.13	1.125	81.88	110-120	90.38	1924	95.2,95.2
130	104.6	51.78	0.9927	49.05	104.8	51.14	0.9645	51.30	120-130	56.61	1981	98,98
140	62.22	22.64	0.7725	20.41	62.40	23.89	0.8154	21.56	130-140	29.33	2010	99.4,99.4
150	23.16	0.7021	0.6573	0.6244	23.49	2.907	0.7776	0.7573	140-150	10.52	2021	99.9,99.9
160	0.4416	0.5449	0.6164	0.5245	0.5766	0.6243	0.7230	0.6674	150-160	1.276	2022	100,100
170	0.4556	0.5504	0.6079	0.5263	0.5575	0.5956	0.6814	0.6498	160-170	0.1647	2022	100,100
180	0.5379	0.5829	0.6076	0.5739	0.5370	0.5530	0.6006	0.5942	170-180	0.0555	2022	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 592.98 lm

%lum = 29.3%

%lamp = 29.3%

Conical surface Flux(120deg): 938.25 lm

%lum = 46.4%

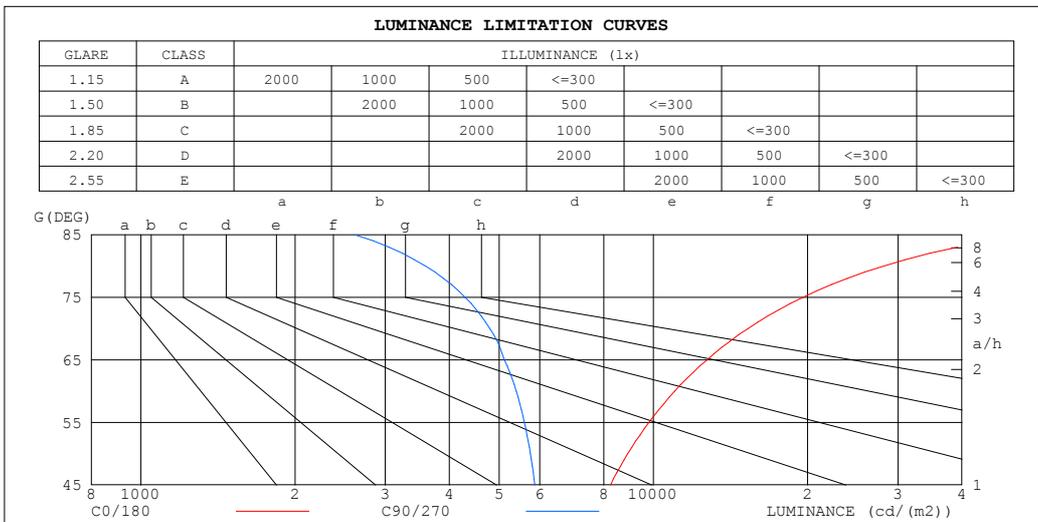
%lamp = 46.4%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2022-09-07

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=0.8817]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	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	53905	2612
80	28176	3590
75	19593	4290
70	15301	4800
65	12725	5123
60	11008	5398
55	9804	5601
50	8914	5755
45	8246	5873

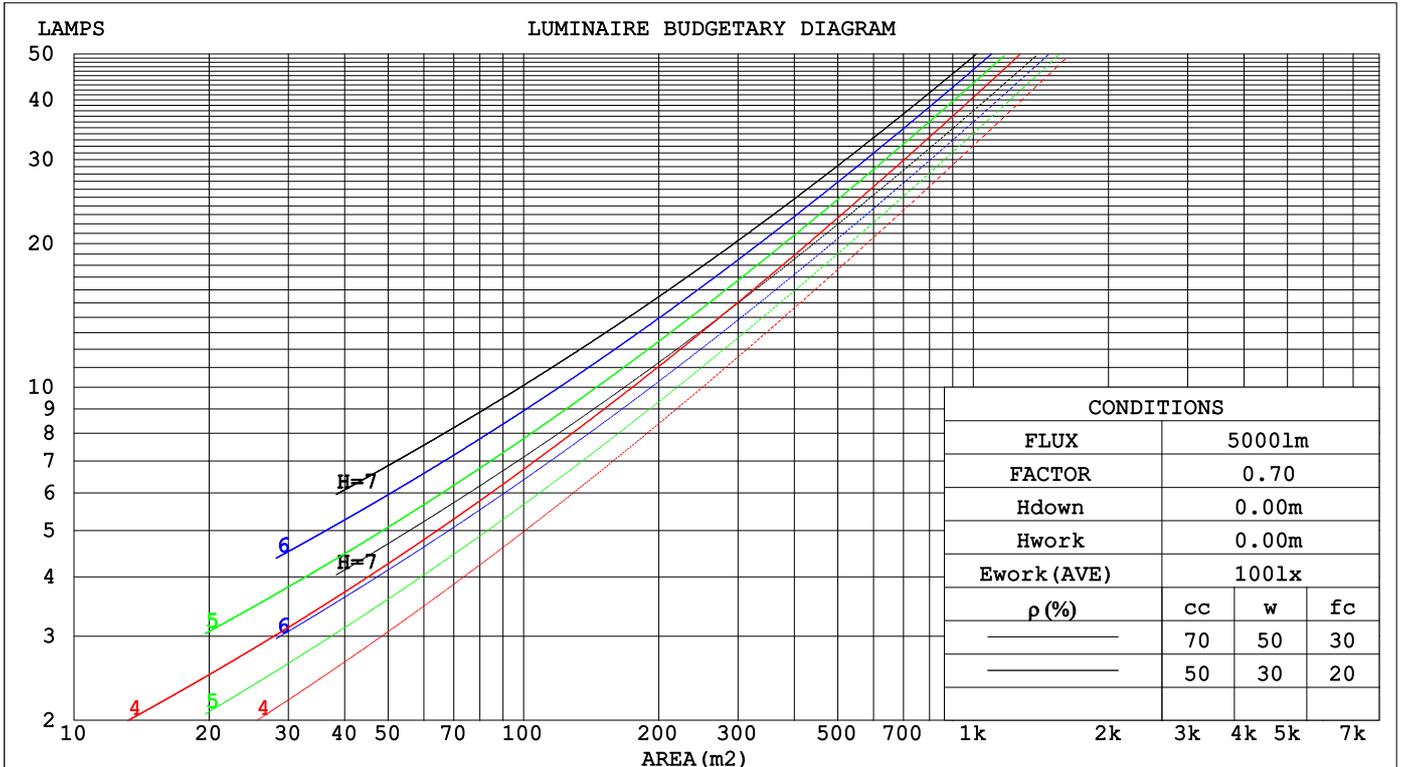
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2°C
 Operators: Dano
 Test Date: 2022-09-07

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=0.8817]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	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						Coefficients of Utilization(CU)									
0.0	1.14	1.14	1.14	1.08	1.08	1.08	.98	.98	.98	.89	.89	.89	.81	.81	.81	.77
1.0	.93	.88	.83	.89	.84	.79	.80	.76	.72	.72	.69	.66	.65	.62	.60	.56
2.0	.79	.71	.64	.75	.68	.62	.68	.62	.57	.61	.56	.52	.55	.51	.47	.44
3.0	.68	.59	.52	.65	.57	.50	.59	.52	.46	.53	.47	.42	.47	.43	.39	.35
4.0	.60	.50	.43	.57	.48	.41	.51	.44	.38	.46	.40	.35	.42	.36	.32	.29
5.0	.53	.43	.36	.50	.42	.35	.46	.38	.32	.41	.35	.30	.37	.32	.28	.25
6.0	.47	.38	.31	.45	.36	.30	.41	.34	.28	.37	.31	.26	.33	.28	.24	.21
7.0	.43	.34	.27	.41	.32	.26	.37	.30	.24	.34	.27	.23	.30	.25	.21	.18
8.0	.39	.30	.24	.37	.29	.23	.34	.27	.22	.31	.25	.20	.28	.23	.19	.16
9.0	.35	.27	.21	.34	.26	.21	.31	.24	.19	.28	.22	.18	.26	.20	.17	.15
10.0	.32	.24	.19	.31	.24	.18	.28	.22	.17	.26	.20	.16	.24	.19	.15	.13



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2°C
 Operators:Dano
 Test Date:2022-09-07

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=0.8817]
 Remarks:

WEC AND CCEC

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.406	.231	.073	.392	.224	.071	.365	.209	.067	.340	.196	.063	.317	.184	.059	
2.0	.345	.189	.058	.332	.183	.056	.308	.171	.053	.285	.160	.050	.264	.150	.047	
3.0	.304	.162	.048	.292	.156	.047	.270	.146	.044	.249	.137	.042	.230	.127	.039	
4.0	.272	.141	.041	.261	.137	.040	.241	.128	.038	.222	.119	.036	.205	.111	.034	
5.0	.246	.125	.036	.236	.121	.035	.218	.113	.033	.201	.106	.031	.185	.099	.030	
6.0	.224	.113	.032	.216	.109	.031	.199	.102	.030	.183	.095	.028	.169	.089	.026	
7.0	.207	.102	.029	.198	.099	.028	.183	.093	.027	.169	.086	.025	.155	.081	.024	
8.0	.191	.093	.026	.184	.090	.026	.170	.085	.024	.156	.079	.023	.144	.074	.021	
9.0	.178	.086	.024	.171	.083	.023	.158	.078	.022	.146	.073	.021	.134	.068	.020	
10.0	.166	.080	.022	.160	.077	.022	.148	.072	.020	.136	.068	.019	.125	.063	.018	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.368	.368	.368	.314	.314	.314	.215	.215	.215	.123	.123	.123	.039	.039	.039	
1.0	.366	.334	.306	.313	.287	.263	.214	.197	.182	.123	.114	.106	.039	.037	.034	
2.0	.359	.312	.272	.308	.268	.235	.211	.186	.164	.122	.108	.096	.039	.035	.031	
3.0	.352	.296	.251	.302	.255	.217	.207	.177	.152	.120	.103	.090	.038	.034	.029	
4.0	.344	.283	.237	.295	.245	.206	.203	.171	.145	.117	.100	.086	.038	.033	.028	
5.0	.336	.274	.227	.289	.237	.198	.199	.165	.140	.115	.097	.083	.037	.032	.027	
6.0	.329	.266	.221	.283	.230	.192	.195	.161	.136	.113	.095	.081	.037	.031	.027	
7.0	.322	.259	.216	.277	.225	.188	.191	.158	.133	.111	.093	.079	.036	.030	.026	
8.0	.315	.254	.212	.271	.220	.185	.188	.155	.131	.109	.091	.078	.035	.030	.026	
9.0	.309	.249	.209	.266	.216	.182	.184	.152	.129	.107	.090	.077	.035	.029	.026	
10.0	.303	.245	.207	.261	.213	.180	.181	.150	.128	.106	.088	.076	.034	.029	.025	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2℃
 Operators:Dano
 Test Date:2022-09-07

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=0.8817]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm										
NAME: VN25-24-25S-952C5-MVTD-BK 5000K					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	19.9	21.3	20.5	21.9	22.5	17.1	18.4	17.6	19.0	19.7
3H	23.0	24.2	23.6	24.8	25.5	18.6	19.8	19.2	20.5	21.2
4H	24.7	25.9	25.3	26.5	27.2	19.2	20.4	19.9	21.1	21.8
6H	26.6	27.7	27.2	28.3	29.1	19.7	20.8	20.4	21.5	22.2
8H	27.6	28.7	28.3	29.4	30.1	19.9	20.9	20.5	21.6	22.4
12H	28.8	29.9	29.5	30.5	31.3	19.9	21.0	20.6	21.6	22.4
4H 2H	20.5	21.7	21.1	22.3	23.0	18.5	19.7	19.1	20.3	21.1
3H	23.8	24.8	24.5	25.5	26.3	20.4	21.4	21.0	22.1	22.9
4H	25.7	26.7	26.4	27.4	28.2	21.2	22.2	21.9	22.9	23.7
6H	27.9	28.7	28.6	29.4	30.3	21.9	22.8	22.6	23.5	24.3
8H	29.0	29.8	29.7	30.6	31.4	22.2	23.0	22.9	23.7	24.6
12H	30.4	31.1	31.1	31.9	32.7	22.4	23.1	23.1	23.9	24.7
8H 4H	26.1	26.9	26.8	27.6	28.5	22.7	23.5	23.4	24.2	25.1
6H	28.5	29.2	29.3	30.0	30.9	23.9	24.6	24.6	25.3	26.2
8H	29.9	30.6	30.7	31.3	32.2	24.4	25.0	25.2	25.8	26.7
12H	31.6	32.1	32.3	32.9	33.8	24.8	25.4	25.6	26.1	27.1
12H 4H	26.1	26.9	26.8	27.6	28.5	23.2	24.0	24.0	24.7	25.6
6H	28.7	29.3	29.4	30.0	31.0	24.7	25.3	25.5	26.1	27.0
8H	30.2	30.7	31.0	31.5	32.5	25.4	26.0	26.2	26.7	27.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 2022 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.4)
Area: 0.0572555 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2℃
Operators:Dano
Test Date:2022-09-07

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=0.8817]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:

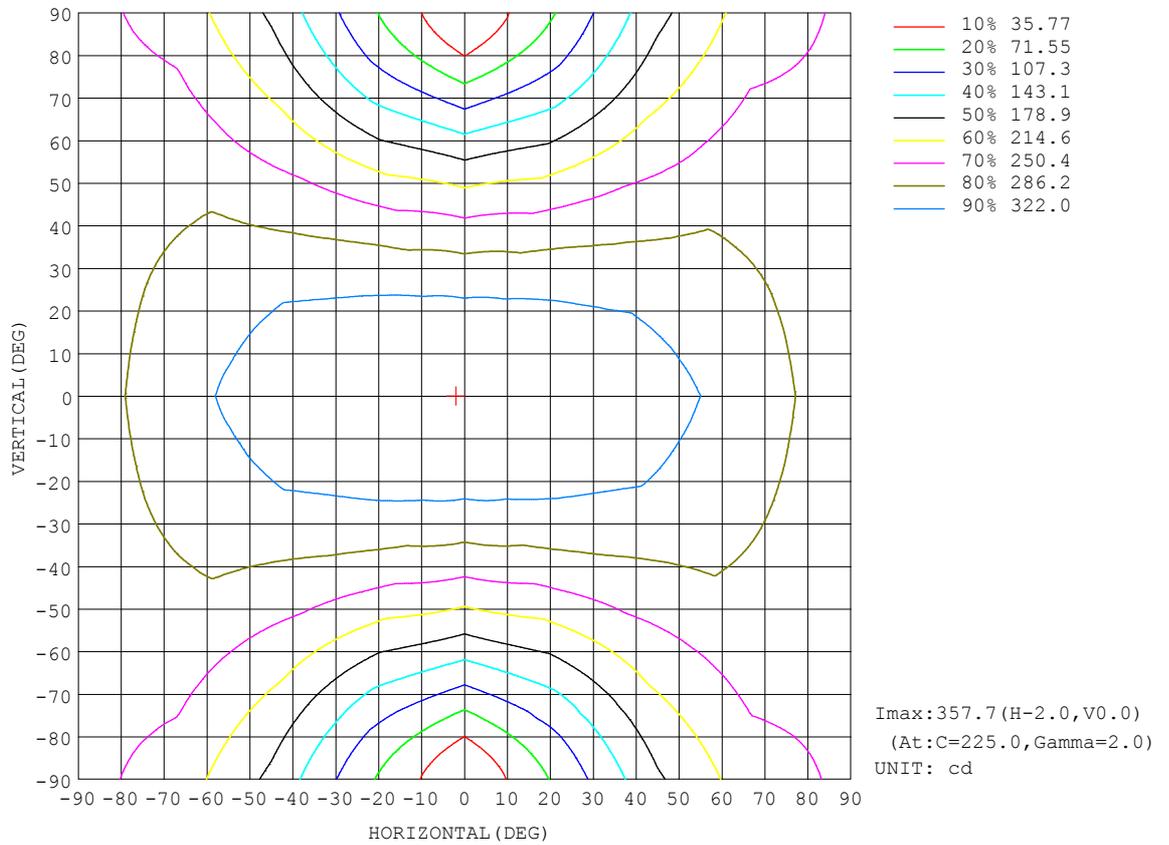
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	32	25	44	32	24	42	31	24	17
0.80	54	40	32	52	39	31	49	38	31	23
1.00	61	48	39	59	47	38	55	47	37	28
1.25	68	55	46	66	53	45	61	50	43	33
1.50	73	60	51	70	58	50	65	55	48	37
2.00	81	69	60	77	66	58	71	62	55	42
2.50	85	74	66	82	72	64	75	67	60	46
3.00	89	79	71	85	76	69	78	70	64	50
4.00	94	85	78	90	82	76	82	76	70	54
5.00	97	90	83	93	86	80	84	79	74	57
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:2022-09-07

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=0.8817]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:



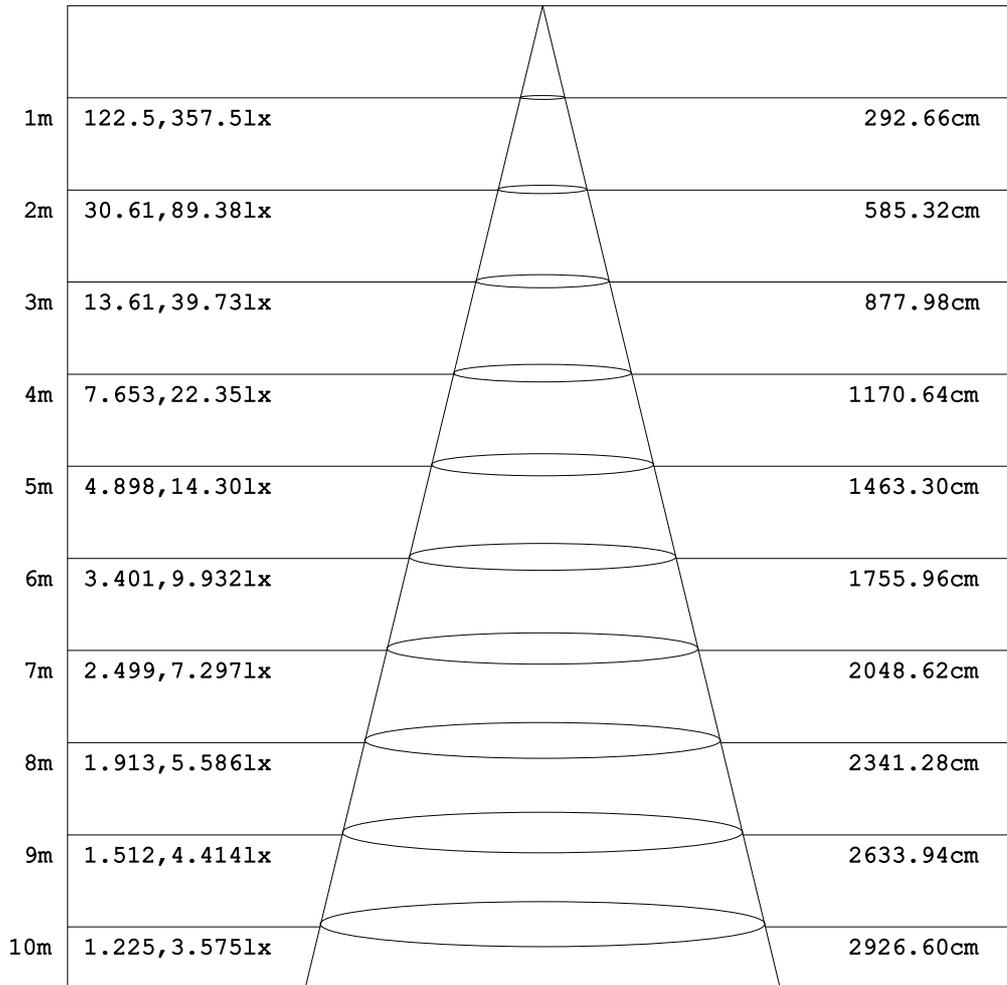
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2°C
Operators: Dano
Test Date: 2022-09-07

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=0.8817]
Remarks:

AAI Figure

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:

Flux out:845.5 lm



Height Eavg, Emax Angle:111.30deg Diameter

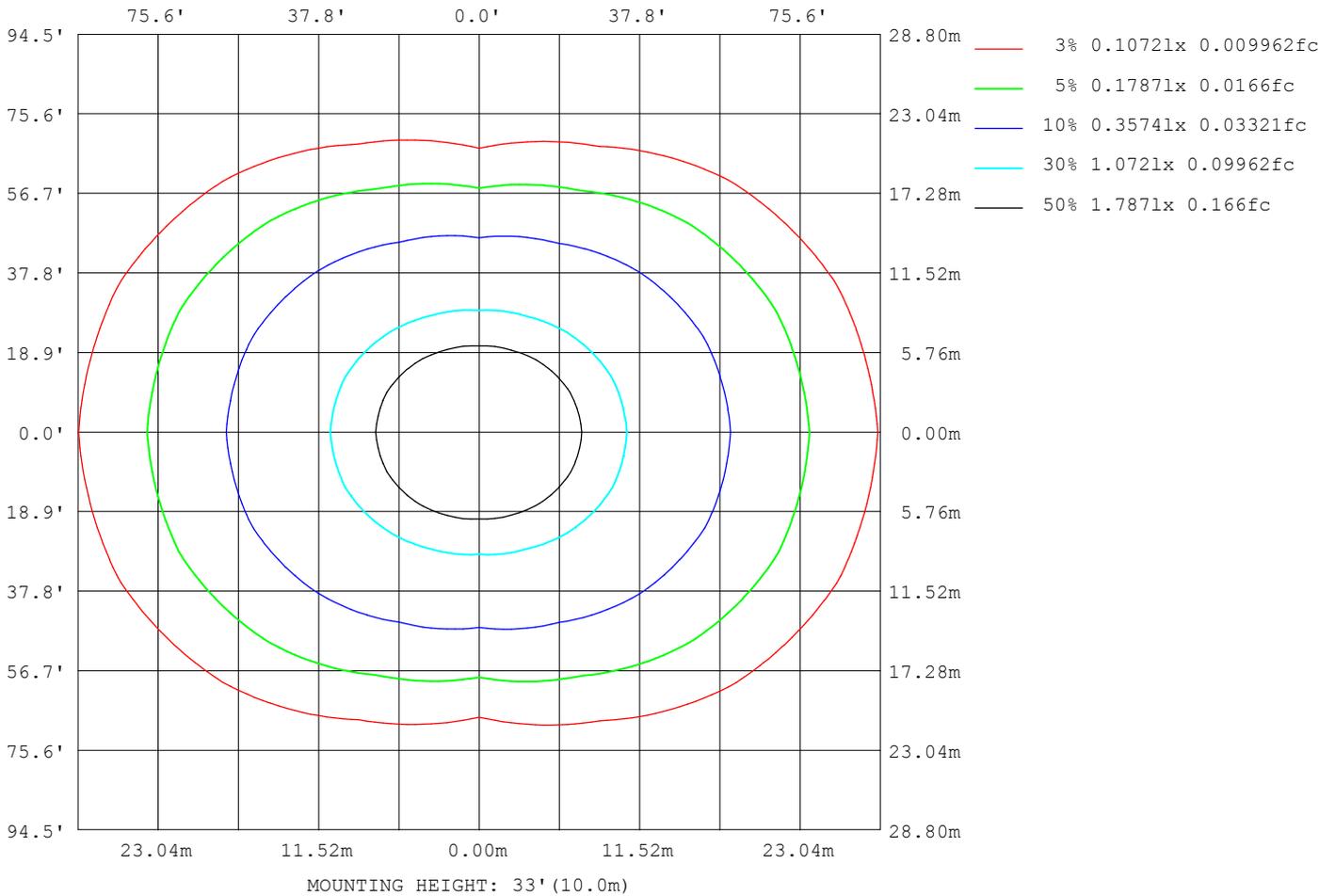
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2°C
Operators:Dano
Test Date:2022-09-07

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=0.8817]
Remarks:

ISOLUX DIAGRAM

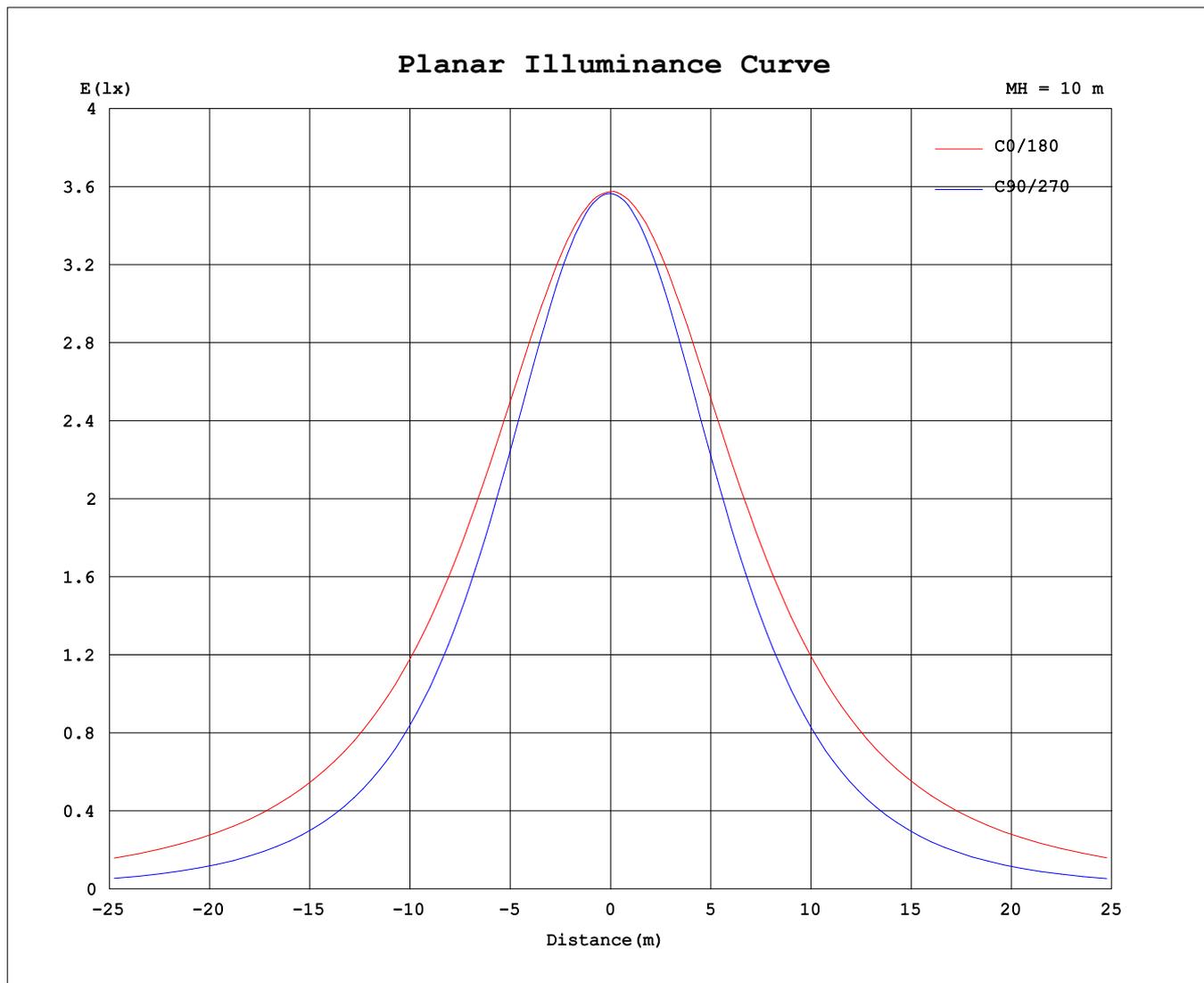
Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2°C
 Operators:Dano
 Test Date:2022-09-07

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=0.8817]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2°C
Operators: Dano
Test Date: 2022-09-07

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=0.8817]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2021A P:24.14W PF:0.9940 Freq:60.01Hz Lamp Flux:2022.42x1 lm		
NAME: VN25-24-25S-952C5-MVTD-BK 5000K	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	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357			
5	357	356	356	356	356	356	356	357	357	357	356	355	355	355	355	356			
10	356	355	354	352	351	352	355	356	357	355	353	351	350	350	352	354			
15	354	353	349	345	344	346	350	354	356	353	349	344	341	343	347	352			
20	352	349	343	336	333	337	345	352	354	350	342	334	330	333	341	348			
25	350	345	335	324	320	325	337	348	352	347	335	322	316	320	333	344			
30	347	340	326	310	303	311	328	343	349	342	325	307	299	306	323	339			
35	343	335	316	294	284	295	317	338	346	337	315	291	280	289	312	333			
40	338	329	304	276	262	276	305	332	342	331	303	273	259	271	300	327			
45	333	322	292	256	238	256	292	325	337	324	291	254	235	251	287	319			
50	328	315	278	235	212	234	279	318	332	316	278	233	209	229	274	312			
55	322	307	265	212	184	212	265	310	325	308	265	211	181	207	261	304			
60	315	299	251	190	155	189	251	301	319	300	251	188	152	184	247	295			
65	307	290	238	167	124	166	237	292	312	291	237	166	122	162	233	287			
70	299	280	225	146	94.1	143	223	282	303	282	224	144	91.5	140	220	277			
75	290	270	212	126	63.6	122	210	272	294	272	211	124	61.7	120	206	268			
80	280	260	199	109	35.7	105	197	261	284	262	198	106	34.8	102	194	258			
85	269	248	187	93.8	13.0	89.2	184	249	273	250	185	91.4	13.0	87.6	182	246			
90	256	236	174	81.7	1.28	76.7	171	236	261	237	173	79.1	1.27	75.8	169	234			
95	244	223	162	71.9	1.24	66.9	160	224	249	225	161	69.6	1.27	66.6	158	222			
100	228	208	148	61.4	1.35	56.0	145	208	232	209	147	58.8	1.35	56.6	144	207			
105	210	191	133	50.7	1.33	45.5	129	190	214	191	131	48.2	1.33	46.7	129	189			
110	190	172	117	40.5	1.29	35.6	113	170	193	172	115	38.2	1.28	37.0	114	171			
115	169	152	101	30.3	1.25	26.2	96.4	150	171	151	98.3	28.7	1.21	27.7	97.7	151			
120	148	131	84.9	21.2	1.18	17.3	80.1	129	149	131	82.1	19.6	1.13	18.6	81.9	131			
125	126	112	68.8	12.6	1.09	9.05	64.3	109	127	110	66.4	11.0	1.04	9.61	66.4	111			
130	105	91.3	51.8	4.90	0.99	1.84	49.1	88.6	105	89.9	51.1	3.39	0.96	3.33	51.3	90.5			
135	83.1	71.5	37.3	1.12	0.88	1.06	34.4	68.9	83.2	70.5	36.9	1.06	0.89	1.13	36.4	70.7			
140	62.2	52.2	22.6	0.85	0.77	0.83	20.4	49.8	62.4	52.1	23.9	0.88	0.82	0.92	21.6	51.1			
145	42.2	32.7	10.4	0.73	0.71	0.72	7.59	31.6	42.4	35.1	12.5	0.81	0.80	0.83	6.55	31.8			
150	23.2	16.3	0.70	0.66	0.66	0.65	0.62	14.6	23.5	19.1	2.91	0.77	0.78	0.76	0.76	13.1			
155	5.79	1.67	0.56	0.62	0.63	0.61	0.55	0.56	6.20	4.42	0.65	0.72	0.75	0.73	0.68	0.66			
160	0.44	0.48	0.54	0.60	0.62	0.58	0.52	0.47	0.58	0.58	0.62	0.68	0.72	0.71	0.67	0.61			
165	0.44	0.48	0.54	0.60	0.61	0.57	0.52	0.48	0.56	0.56	0.59	0.65	0.69	0.69	0.65	0.60			
170	0.46	0.50	0.55	0.59	0.61	0.58	0.53	0.49	0.56	0.56	0.60	0.64	0.68	0.68	0.65	0.60			
175	0.50	0.54	0.58	0.60	0.61	0.59	0.56	0.53	0.55	0.55	0.58	0.61	0.65	0.66	0.64	0.60			
180	0.54	0.55	0.58	0.60	0.61	0.60	0.57	0.54	0.54	0.54	0.55	0.58	0.60	0.60	0.59	0.57			

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 C Interval: 22.5DEG
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