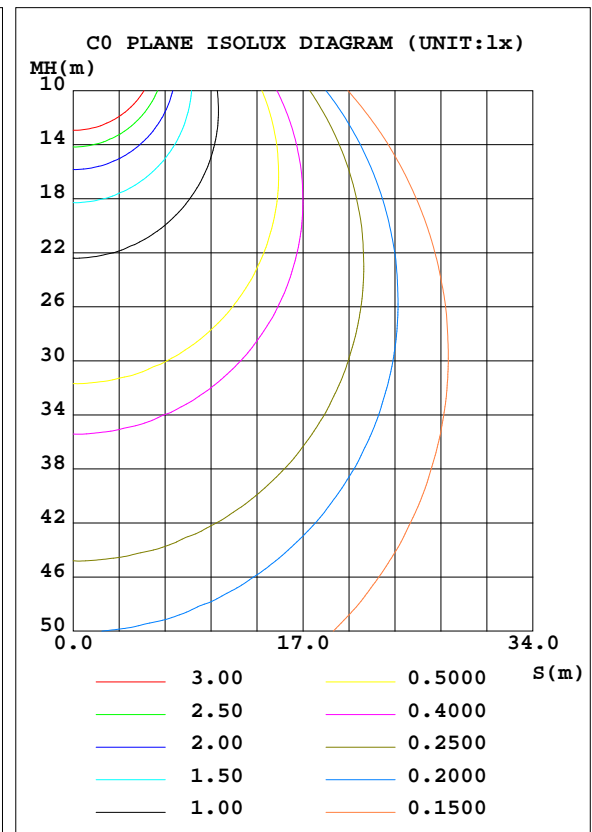
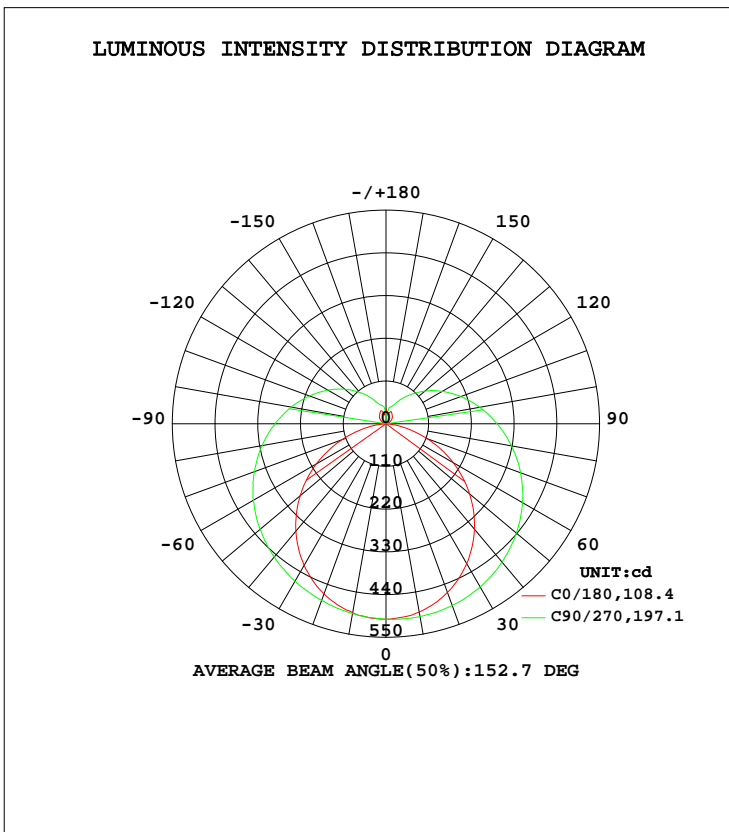


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.2 lm/W			
MODEL ASD-LVF22-24D25CC-NK 4000K		Imax(cd)	504.5	S/MH(C0/180)	1.23
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.45
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2105	η UP, DN(C0-180)	12.1, 37.8
NOMINAL FLUX(lm)	2105	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	11.6, 38.5
LAMPS INSIDE	1	η up(%)	23.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	76.3	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [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	494.3	494.0	496.1	493.4	492.3	498.7	504.1	499.4	0- 10	47.72	47.72	1.82,1.82
20	466.2	473.5	484.1	472.5	462.5	480.9	498.0	483.0	10- 20	138.1	185.8	7.08,7.08
30	421.1	443.2	468.3	441.9	415.8	452.6	485.0	455.9	20- 30	214.2	400.0	15.2,15.2
40	361.1	403.7	447.8	403.9	354.4	414.1	464.9	418.5	30- 40	268.9	669.0	25.5,25.5
50	288.6	360.2	423.1	360.9	281.0	369.1	438.1	374.1	40- 50	298.2	967.2	36.8,36.8
60	207.5	314.2	394.3	315.9	199.5	320.8	406.1	326.5	50- 60	301.6	1269	48.3,48.3
70	121.1	268.7	360.7	271.7	112.9	273.1	368.8	279.4	60- 70	282.1	1551	59.1,59.1
80	40.19	225.8	323.7	229.5	34.92	227.3	328.0	233.7	70- 80	246.3	1797	68.5,68.5
90	0.5675	187.7	285.7	191.9	0.4882	186.6	286.0	192.3	80- 90	204.7	2002	76.3,76.3
100	2.392	155.9	247.9	160.1	2.483	152.5	245.1	157.9	90-100	169.2	2171	82.7,82.7
110	7.518	128.8	209.8	132.5	7.620	123.6	205.3	127.9	100-110	137.4	2309	87.9,87.9
120	14.14	106.2	173.2	109.3	14.19	100.3	167.2	103.5	110-120	107.4	2416	92,92
130	20.92	84.98	138.8	87.74	20.37	79.30	131.0	81.84	120-130	80.05	2496	95.1,95.1
140	26.28	66.99	105.7	69.18	25.71	60.91	98.31	64.83	130-140	55.87	2552	97.2,97.2
150	31.63	52.27	76.85	53.39	30.58	44.78	70.02	52.74	140-150	36.54	2588	98.6,98.6
160	35.60	47.39	54.82	47.59	32.76	38.85	49.50	46.42	150-160	22.10	2611	99.5,99.5
170	24.31	41.03	46.77	32.39	23.10	24.05	37.78	41.87	160-170	11.49	2622	99.9,99.9
180	38.15	30.37	0	31.28	37.50	35.42	21.76	21.37	170-180	2.878	2625	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 816.07 lm

%lum = 31.1%

%lamp = 31.1%

Conical surface Flux(120deg): 1268.8 lm

%lum = 48.3%

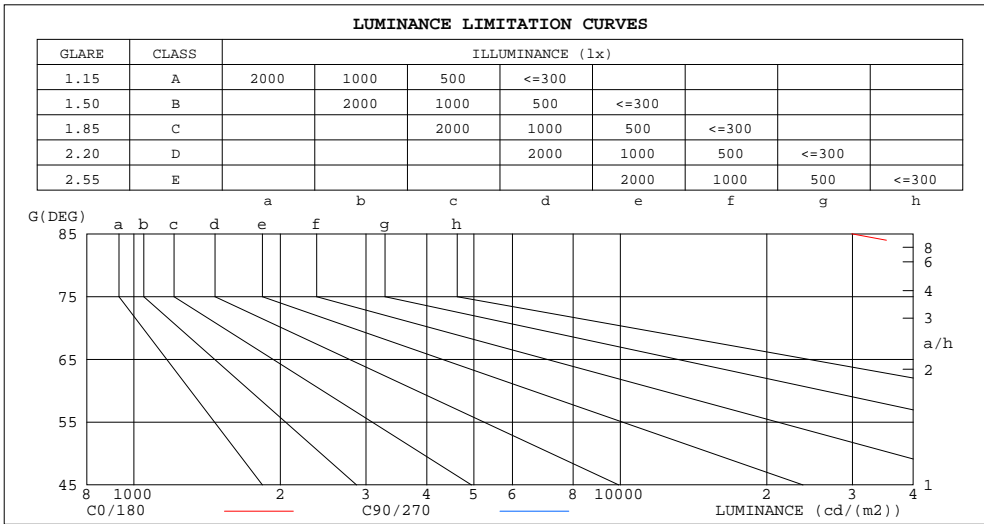
%lamp = 48.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	29914	810100
80	53437	431426
75	70206	306457
70	81725	244036
65	89599	206803
60	95804	182485
55	100155	165150
50	103671	152348
45	106421	142631

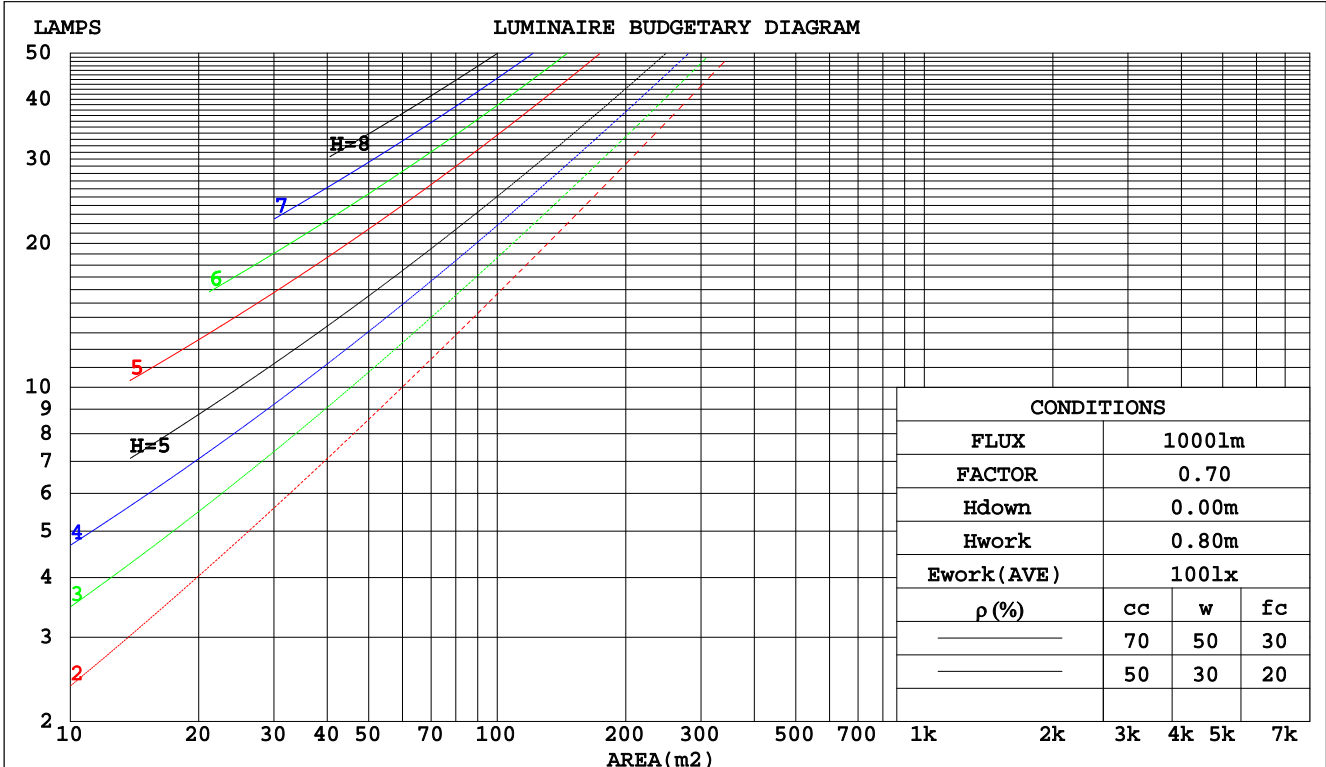
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Hill
 Test Date: 2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 46%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.13	1.13	1.13	1.08	1.08	1.08	.98	.98	.98	.89	.89	.89	.80	.80	.80	.76
1.0	.94	.89	.84	.89	.85	.80	.81	.77	.73	.73	.70	.67	.65	.63	.61	.57
2.0	.80	.72	.66	.76	.69	.63	.69	.63	.58	.62	.57	.53	.56	.52	.49	.45
3.0	.70	.61	.53	.66	.58	.51	.60	.53	.47	.54	.48	.44	.48	.44	.40	.37
4.0	.61	.52	.44	.58	.49	.43	.52	.45	.40	.47	.41	.37	.43	.38	.34	.30
5.0	.54	.45	.38	.52	.43	.36	.47	.39	.34	.42	.36	.31	.38	.33	.29	.26
6.0	.48	.39	.32	.46	.38	.31	.42	.35	.29	.38	.32	.27	.34	.29	.25	.22
7.0	.44	.35	.28	.42	.33	.27	.38	.31	.25	.34	.28	.24	.31	.26	.22	.20
8.0	.40	.31	.25	.38	.30	.24	.35	.28	.23	.31	.25	.21	.29	.23	.19	.17
9.0	.36	.28	.22	.35	.27	.21	.32	.25	.20	.29	.23	.19	.26	.21	.17	.15
10.0	.33	.25	.20	.32	.24	.19	.29	.23	.18	.27	.21	.17	.24	.19	.16	.14



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.389	.221	.070	.374	.213	.068	.347	.199	.064	.322	.186	.060	.299	.173	.056	
2.0	.334	.183	.056	.321	.177	.054	.296	.165	.051	.274	.154	.048	.253	.143	.045	
3.0	.296	.157	.047	.284	.152	.046	.262	.142	.043	.241	.132	.041	.222	.123	.038	
4.0	.266	.138	.041	.255	.134	.039	.235	.125	.037	.216	.116	.035	.199	.108	.033	
5.0	.241	.123	.036	.232	.119	.035	.213	.111	.033	.196	.103	.031	.180	.096	.029	
6.0	.221	.111	.032	.212	.107	.031	.195	.100	.029	.179	.093	.027	.165	.087	.026	
7.0	.204	.101	.029	.196	.097	.028	.180	.091	.026	.165	.085	.025	.152	.079	.023	
8.0	.189	.092	.026	.181	.089	.025	.167	.083	.024	.154	.078	.022	.141	.072	.021	
9.0	.176	.085	.024	.169	.082	.023	.156	.077	.022	.143	.072	.021	.132	.067	.019	
10.0	.165	.079	.022	.158	.076	.021	.146	.071	.020	.134	.067	.019	.123	.062	.018	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.371	.371	.371	.317	.317	.317	.217	.217	.217	.124	.124	.124	.040	.040	.040	
1.0	.368	.338	.310	.315	.290	.267	.215	.199	.185	.124	.115	.107	.040	.037	.035	
2.0	.361	.315	.276	.310	.271	.239	.212	.188	.167	.122	.109	.098	.039	.035	.032	
3.0	.354	.299	.255	.303	.258	.221	.208	.179	.155	.120	.105	.091	.039	.034	.030	
4.0	.346	.287	.241	.297	.248	.209	.204	.173	.148	.118	.101	.087	.038	.033	.029	
5.0	.339	.277	.232	.291	.240	.201	.200	.167	.142	.116	.098	.084	.037	.032	.028	
6.0	.331	.269	.225	.285	.233	.196	.196	.163	.138	.114	.096	.082	.037	.031	.027	
7.0	.324	.263	.220	.279	.228	.191	.193	.160	.136	.112	.094	.081	.036	.031	.027	
8.0	.318	.257	.216	.273	.223	.188	.189	.157	.133	.110	.092	.079	.036	.030	.026	
9.0	.311	.252	.213	.268	.219	.186	.186	.154	.132	.108	.091	.079	.035	.030	.026	
10.0	.306	.248	.210	.263	.216	.183	.183	.152	.130	.107	.090	.078	.035	.029	.026	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm										
NAME: ASD-LVF22-24D25CC-NK 4000K					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A		
MFR.: ASD Lighting corp					SUR.:N/A			Shielding Angle:N/A		
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	23.6	24.9	24.2	25.5	26.2	26.3	27.6	26.8	28.2	28.8
3H	25.0	26.2	25.6	26.9	27.6	29.1	30.3	29.7	31.0	31.7
4H	25.6	26.7	26.2	27.4	28.1	30.7	31.9	31.4	32.5	33.2
6H	26.0	27.0	26.6	27.7	28.4	32.5	33.6	33.1	34.2	35.0
8H	26.0	27.1	26.7	27.7	28.5	33.5	34.5	34.1	35.2	36.0
12H	26.1	27.1	26.7	27.7	28.5	34.6	35.6	35.3	36.3	37.1
4H 2H	24.9	26.0	25.5	26.7	27.4	26.8	27.9	27.4	28.6	29.3
3H	26.6	27.6	27.3	28.3	29.1	29.9	30.9	30.6	31.6	32.4
4H	27.4	28.3	28.1	29.0	29.8	31.7	32.6	32.4	33.3	34.2
6H	28.0	28.8	28.7	29.5	30.4	33.7	34.5	34.4	35.3	36.1
8H	28.2	28.9	28.9	29.7	30.5	34.8	35.6	35.6	36.3	37.2
12H	28.3	29.0	29.0	29.7	30.6	36.1	36.8	36.8	37.6	38.5
8H 4H	28.7	29.5	29.4	30.2	31.1	32.0	32.8	32.8	33.5	34.4
6H	29.7	30.4	30.5	31.2	32.1	34.4	35.0	35.1	35.8	36.7
8H	30.2	30.8	30.9	31.5	32.5	35.7	36.3	36.5	37.1	38.0
12H	30.5	31.0	31.3	31.8	32.7	37.3	37.8	38.0	38.6	39.5
12H 4H	29.2	29.9	29.9	30.6	31.5	32.1	32.8	32.8	33.5	34.4
6H	30.5	31.1	31.3	31.8	32.8	34.5	35.1	35.3	35.8	36.8
8H	31.1	31.6	31.9	32.4	33.4	35.9	36.4	36.7	37.2	38.2
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	+ 0.2 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 2625 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.4)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

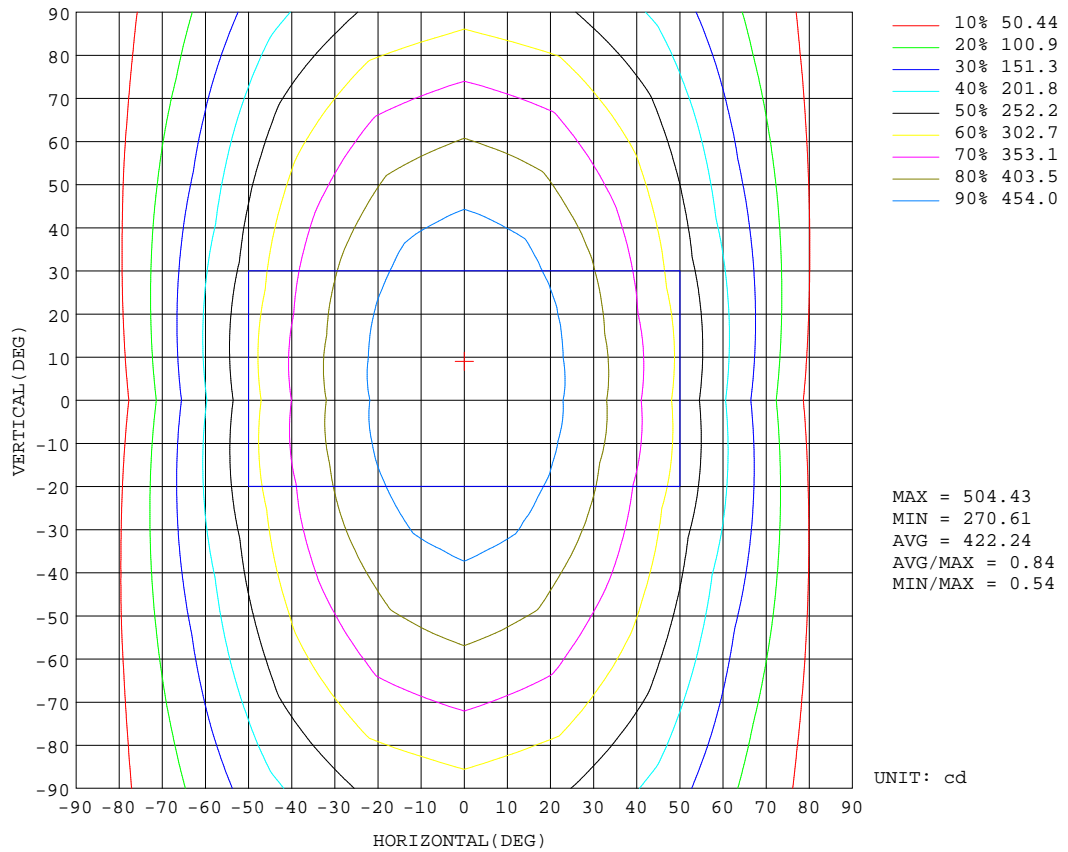
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	46	33	26	44	33	26	42	32	25	18
0.80	55	42	34	53	41	33	50	39	32	24
1.00	62	49	41	60	48	40	56	48	39	29
1.25	69	56	48	67	55	47	62	52	45	34
1.50	74	62	53	71	60	52	66	56	49	38
2.00	82	70	62	78	68	60	72	63	57	44
2.50	86	76	68	83	73	66	75	68	62	48
3.00	90	81	73	86	77	70	79	72	66	51
4.00	95	87	80	91	83	77	82	77	72	55
5.00	98	91	85	93	87	82	85	80	75	58
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:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



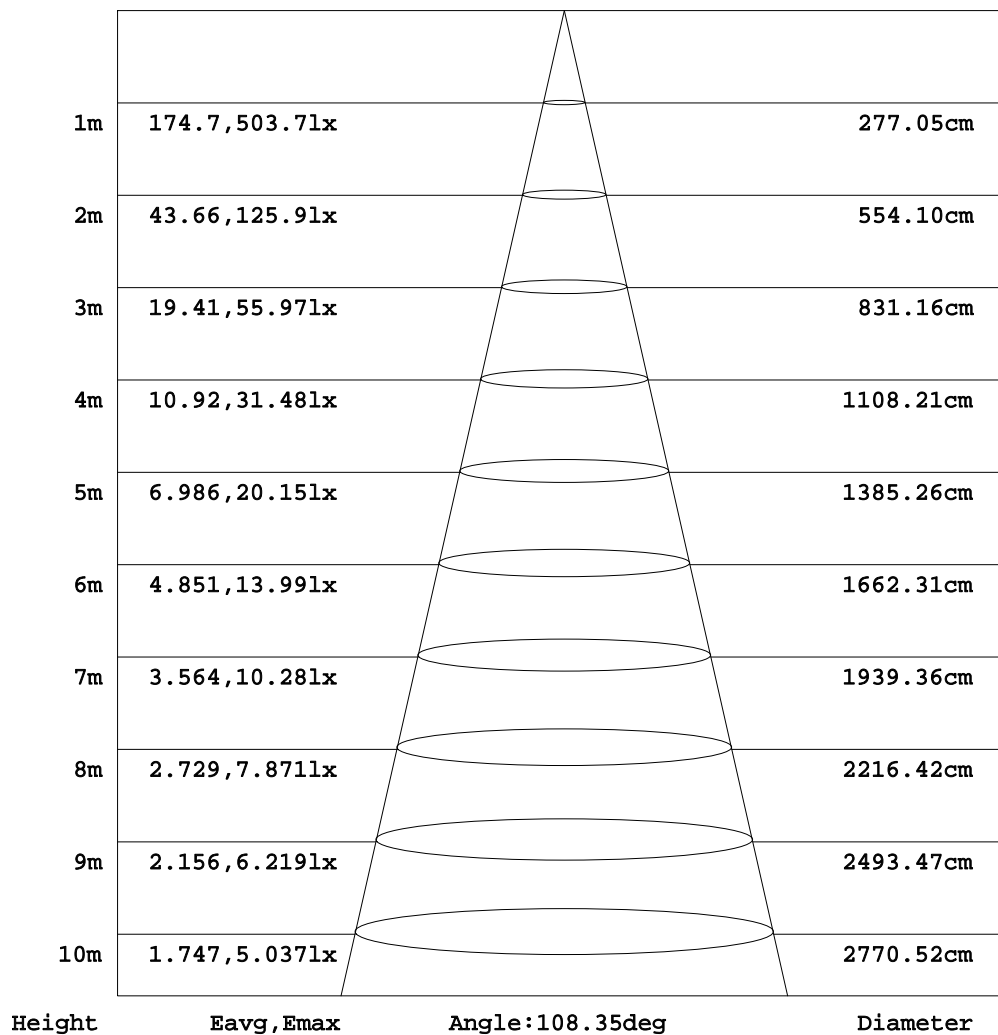
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

Flux out:1119 lm



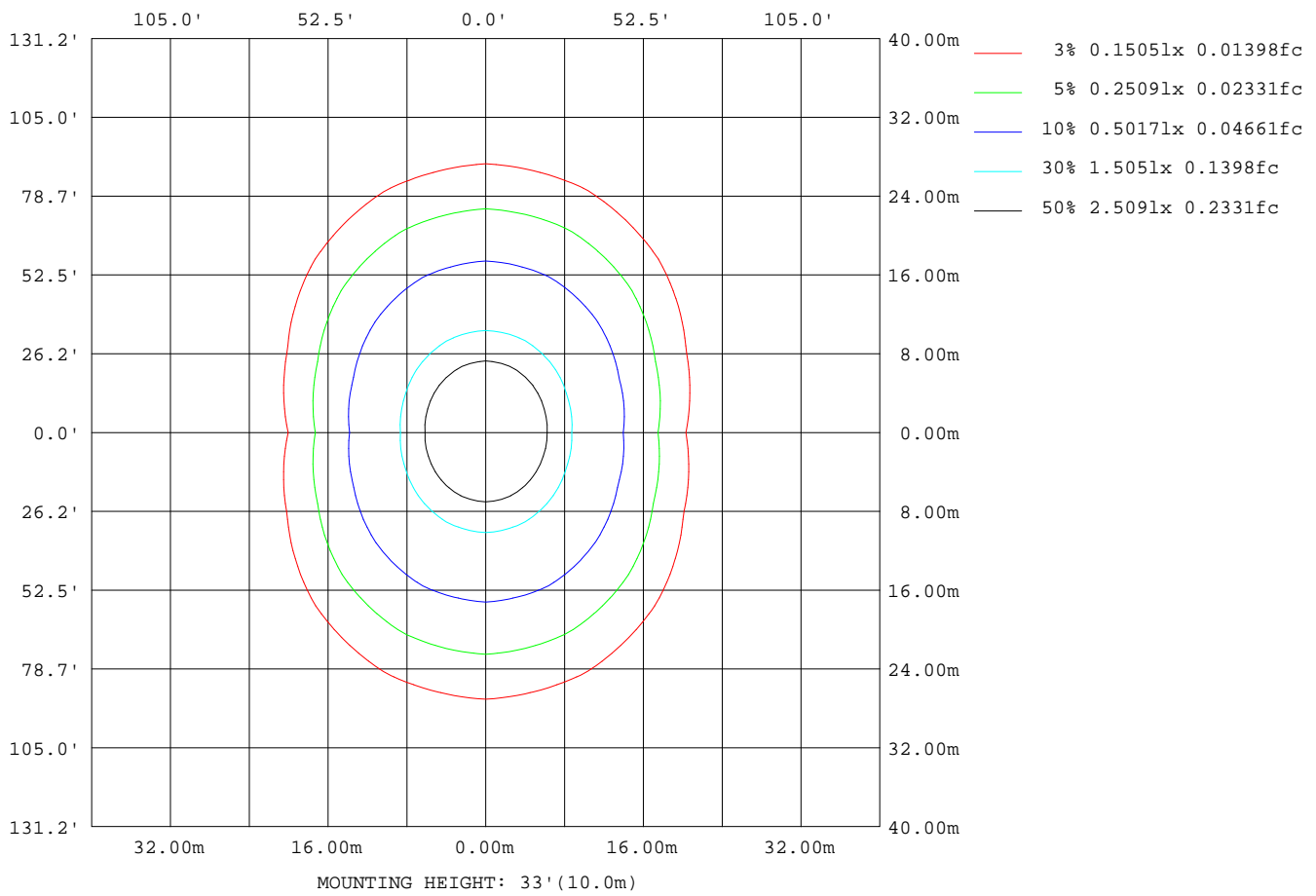
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:46%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

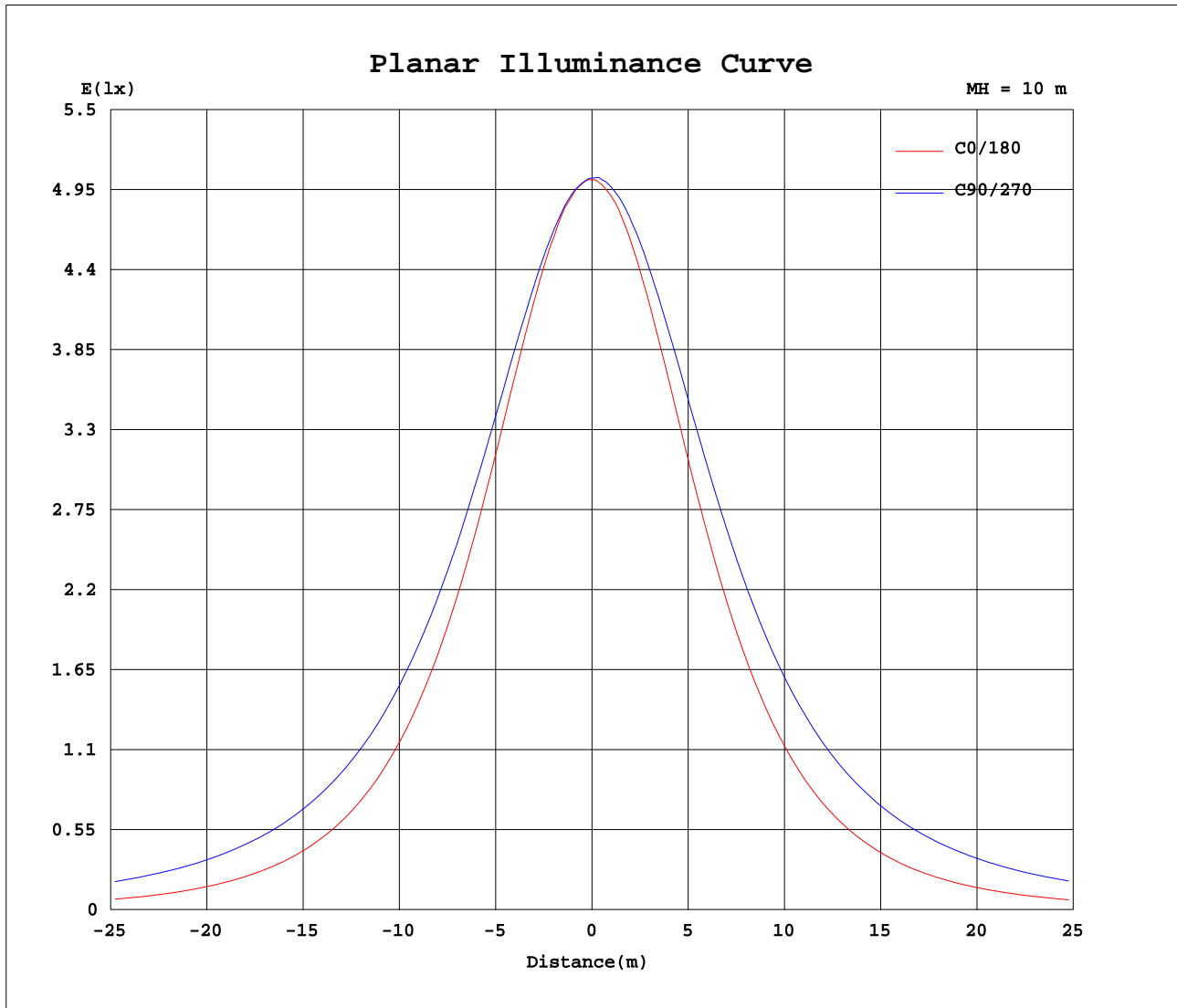
AvgL	cd/m2
L_0~180(65)av	87817
L_0~180(75)av	67256
L_0~180(85)av	25927
L_90~270(65)av	209685
L_90~270(75)av	309163
L_90~270(85)av	812747
L_45(65)av	162258
L_45(75)av	224339
L_45(85)av	553903

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:Hill
Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:46%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Hill
 Test Date: 2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 46%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.2275A P:25W PF:0.9241 Freq:60.00Hz Lamp Flux:2105x1 lm		
NAME: ASD-LVF22-24D25CC-NK 4000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503			
5	501	501	500	501	501	499	500	500	500	501	502	504	504	504	503	502			
10	494	494	494	497	496	495	493	493	492	495	499	503	504	502	499	496			
15	483	483	485	489	491	488	485	481	479	484	491	499	502	499	493	486			
20	466	468	474	481	484	480	473	466	462	470	481	494	498	494	483	472			
25	446	448	459	472	476	471	458	447	441	451	468	486	493	486	471	453			
30	421	425	443	461	468	460	442	424	416	428	453	476	485	477	456	431			
35	392	400	424	449	458	448	424	398	387	403	434	464	476	465	438	406			
40	361	371	404	436	448	435	404	370	354	375	414	451	465	452	418	379			
45	326	341	382	421	436	421	383	340	319	344	392	435	452	437	397	349			
50	289	309	360	406	423	405	361	308	281	311	369	419	438	421	374	317			
55	249	275	337	390	409	390	338	276	241	278	345	401	423	403	351	283			
60	207	241	314	373	394	373	316	242	199	243	321	383	406	385	326	249			
65	164	207	291	355	378	355	294	210	157	209	297	363	388	366	303	215			
70	121	175	269	336	361	337	272	179	113	176	273	343	369	346	279	183			
75	78.7	146	247	317	343	318	250	150	71.7	147	250	322	349	325	256	154			
80	40.2	120	226	298	324	299	230	125	34.9	119	227	301	328	304	234	127			
85	11.3	98.5	206	279	305	280	210	104	8.23	97.0	206	280	307	283	212	104			
90	0.57	81.6	188	260	286	261	192	87.6	0.49	79.8	187	260	286	262	192	86.5			
95	1.01	70.1	171	241	266	243	175	75.7	1.04	67.5	169	240	265	242	175	73.5			
100	2.39	61.4	156	223	248	225	160	66.7	2.48	58.8	153	220	245	223	158	64.0			
105	4.58	55.3	142	205	229	207	146	60.3	4.72	52.6	137	201	225	204	143	57.1			
110	7.52	50.6	129	188	210	189	133	54.9	7.62	47.6	124	183	205	185	128	51.6			
115	10.6	46.6	117	171	191	172	121	50.4	10.9	43.9	111	166	186	167	115	47.2			
120	14.1	43.5	106	155	173	156	109	46.8	14.2	40.8	100	149	167	151	104	43.6			
125	17.8	40.7	94.8	139	156	141	97.8	43.6	17.5	38.2	89.1	132	149	133	91.9	40.5			
130	20.9	38.0	85.0	124	139	125	87.7	40.7	20.4	35.7	79.3	116	131	117	81.8	37.9			
135	24.1	37.2	75.6	109	121	110	78.1	39.0	23.0	34.2	70.1	101	114	103	72.8	36.8			
140	26.3	37.4	67.0	94.7	106	95.8	69.2	38.8	25.7	32.2	60.9	87.4	98.3	89.6	64.8	36.9			
145	28.9	38.7	58.6	81.8	90.8	82.6	60.6	39.4	27.9	31.5	51.6	73.8	83.7	77.7	58.3	38.0			
150	31.6	39.9	52.3	69.6	76.9	70.4	53.4	39.8	30.6	32.5	44.8	60.7	70.0	66.8	52.7	39.8			
155	34.7	40.0	48.7	58.8	63.8	59.4	49.4	39.3	33.3	32.2	38.4	50.3	57.3	56.5	49.9	41.5			
160	35.6	40.9	47.4	52.1	54.8	52.4	47.6	40.1	32.8	30.8	38.8	44.1	49.5	50.2	46.4	42.5			
165	31.3	38.0	46.1	49.0	49.9	49.0	43.7	34.3	28.5	28.8	32.8	39.9	44.8	45.6	44.6	42.3			
170	24.3	27.0	41.0	46.2	46.8	43.8	32.4	25.8	23.1	23.0	24.0	28.8	37.8	42.9	41.9	37.5			
175	23.1	22.7	27.9	38.8	37.0	27.6	23.0	24.0	25.1	24.9	24.9	23.0	23.0	32.9	34.8	25.8			
180	38.2	36.9	30.4	19.8	0.00	20.4	31.3	37.7	37.5	37.4	35.4	30.9	21.8	13.7	21.4	29.6			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
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