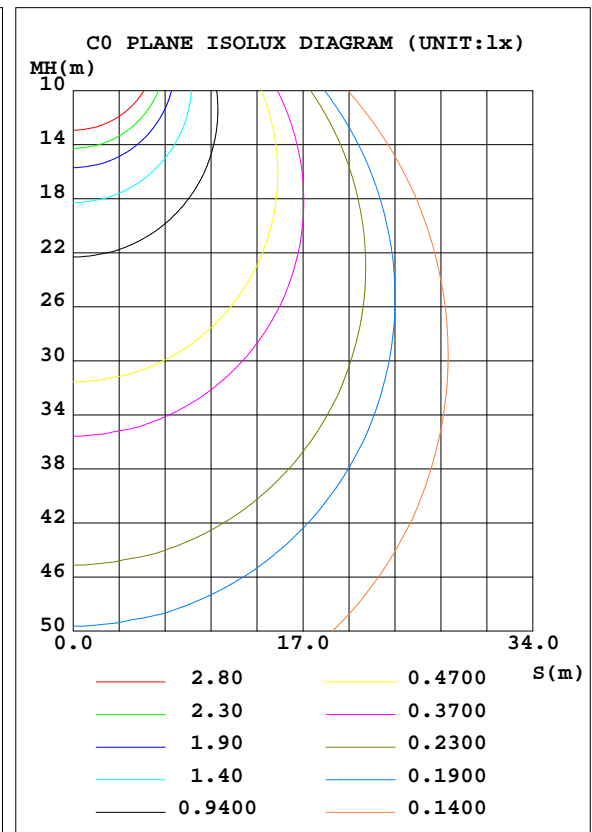
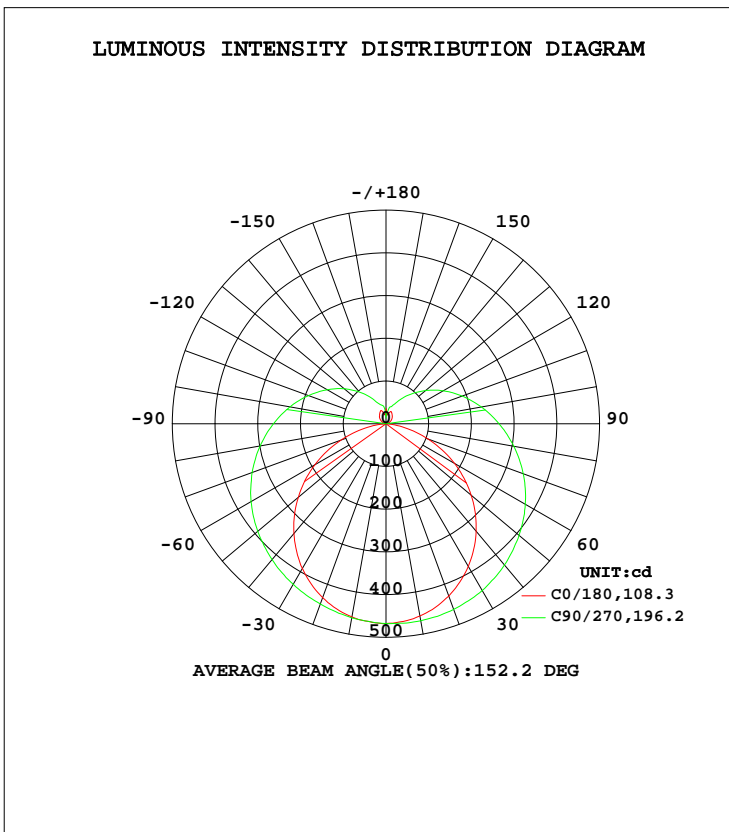


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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: 78 lm/W			
MODEL ASD-LVF22-24D25CC-NK 3000K		Imax(cd)	469.1	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)	1950	η UP, DN(C0-180)	12.0, 37.8
NOMINAL FLUX(lm)	1950	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	11.6, 38.5
LAMPS INSIDE	1	η up(%)	23.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	76.4	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	459.4	459.4	461.3	458.9	457.0	463.1	468.2	464.2	0- 10	44.33	44.33	1.82,1.82
20	433.5	439.8	449.1	439.0	429.4	447.0	462.4	449.1	10- 20	128.3	172.6	7.1,7.1
30	391.3	411.3	434.1	410.0	385.6	420.2	450.8	423.6	20- 30	198.9	371.5	15.3,15.3
40	335.3	375.2	415.1	374.7	328.4	384.3	431.5	388.6	30- 40	249.7	621.2	25.6,25.6
50	267.9	334.0	391.7	334.4	260.5	342.1	406.5	347.5	40- 50	276.7	897.9	36.9,36.9
60	192.3	291.0	364.9	292.3	184.9	297.3	376.5	303.4	50- 60	279.6	1177	48.4,48.4
70	112.2	249.1	333.4	251.5	104.6	252.9	341.8	259.1	60- 70	261.4	1439	59.2,59.2
80	37.22	208.9	299.0	212.3	32.33	210.2	303.8	216.7	70- 80	228.0	1667	68.6,68.6
90	0.5307	173.2	263.6	176.8	0.4494	172.3	264.7	178.4	80- 90	189.3	1856	76.4,76.4
100	2.235	143.8	228.3	147.6	2.283	140.8	226.8	146.4	90-100	156.3	2012	82.8,82.8
110	6.875	118.8	193.3	122.2	7.010	114.2	189.9	118.5	100-110	126.8	2139	88,88
120	12.59	97.55	159.5	100.7	12.55	92.64	154.6	95.96	110-120	99.14	2238	92.1,92.1
130	18.81	78.24	127.9	80.68	18.20	73.27	121.2	75.83	120-130	73.75	2312	95.1,95.1
140	23.80	61.36	97.26	63.66	23.31	56.24	90.91	60.07	130-140	51.49	2364	97.2,97.2
150	29.14	48.13	70.58	49.14	27.99	41.34	64.67	48.83	140-150	33.68	2397	98.6,98.6
160	32.99	43.70	50.35	43.79	30.00	35.55	45.72	42.96	150-160	20.37	2418	99.5,99.5
170	22.66	37.87	43.08	29.63	21.16	21.97	34.65	38.91	160-170	10.59	2428	99.9,99.9
180	35.21	28.03	13.07	26.83	34.61	32.69	19.97	19.65	170-180	2.653	2431	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 757.7 lm

%lum = 31.2%

%lamp = 31.2%

Conical surface Flux(120deg): 1177.5 lm

%lum = 48.4%

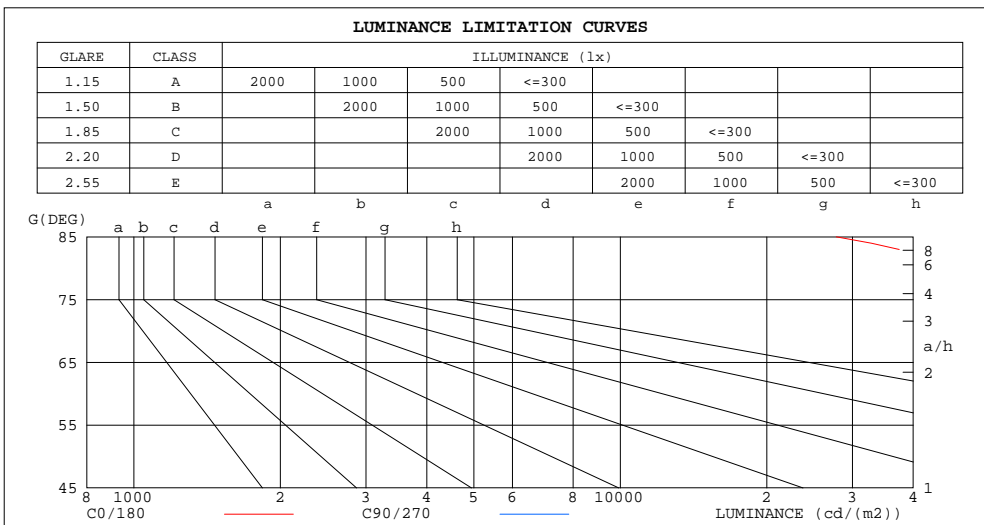
%lamp = 48.4%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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	27796	747761
80	49633	398618
75	65499	282939
70	75998	225651
65	83481	191268
60	89073	168923
55	93440	152855
50	96520	141073
45	99222	132159

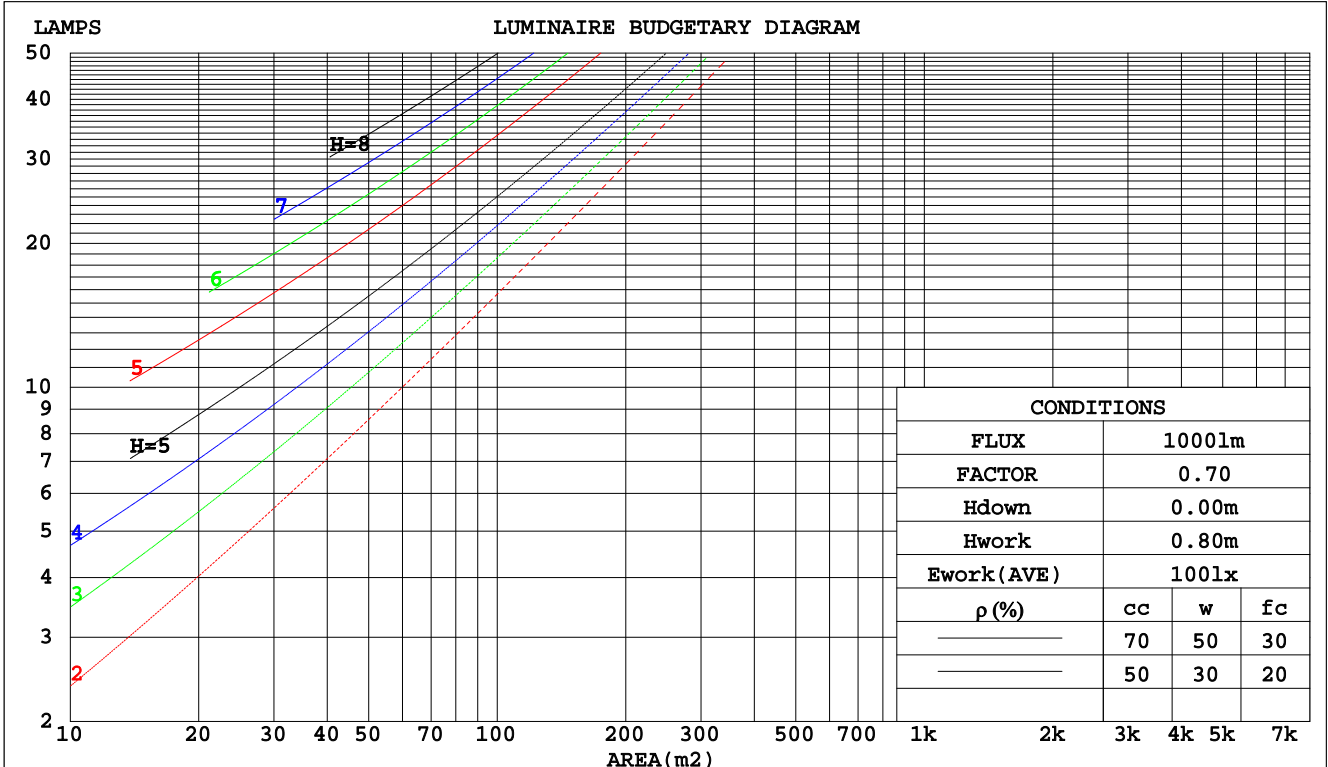
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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																0
pfc	20%			20%			20%			20%			20%			0
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	.53	.45	.40	.47	.41	.37	.43	.38	.34	.31
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	.26	.34	.28	.24	.31	.26	.22	.20
8.0	.40	.31	.25	.38	.30	.24	.35	.28	.23	.31	.25	.21	.29	.23	.20	.17
9.0	.36	.28	.22	.35	.27	.21	.32	.25	.20	.29	.23	.19	.26	.21	.18	.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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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	.388	.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	.133	.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	.166	.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	.072	.020	.134	.067	.019	.124	.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	.216	.216	.216	.124	.124	.124	.040	.040	.040	
1.0	.367	.337	.310	.314	.289	.267	.215	.199	.184	.124	.115	.107	.040	.037	.035	
2.0	.361	.315	.276	.309	.271	.238	.212	.187	.166	.122	.109	.097	.039	.035	.032	
3.0	.353	.298	.254	.303	.257	.221	.208	.179	.155	.120	.104	.091	.039	.034	.030	
4.0	.346	.286	.240	.297	.247	.209	.204	.172	.147	.118	.101	.087	.038	.033	.029	
5.0	.338	.276	.231	.290	.239	.201	.200	.167	.142	.116	.098	.084	.037	.032	.028	
6.0	.331	.268	.224	.284	.233	.195	.196	.163	.138	.114	.096	.082	.037	.031	.027	
7.0	.324	.262	.219	.278	.227	.191	.192	.159	.135	.112	.094	.080	.036	.031	.027	
8.0	.317	.256	.215	.273	.222	.187	.189	.156	.133	.110	.092	.079	.036	.030	.026	
9.0	.311	.252	.212	.268	.219	.185	.185	.154	.131	.108	.091	.078	.035	.030	.026	
10.0	.305	.248	.210	.263	.215	.183	.182	.151	.130	.106	.089	.078	.034	.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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm										
NAME: ASD-LVF22-24D25CC-NK 3000K					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	25.1	26.3	25.7	26.9	27.6	29.1	30.3	29.7	30.9	31.7
4H	25.6	26.8	26.2	27.4	28.1	30.7	31.9	31.3	32.5	33.2
6H	26.0	27.1	26.6	27.7	28.5	32.5	33.6	33.1	34.2	35.0
8H	26.1	27.1	26.7	27.8	28.5	33.5	34.5	34.1	35.2	35.9
12H	26.1	27.1	26.7	27.8	28.5	34.6	35.6	35.3	36.3	37.1
4H 2H	24.9	26.1	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	34.1
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	35.5	36.3	37.2
12H	28.3	29.0	29.0	29.7	30.6	36.1	36.8	36.8	37.6	38.4
8H 4H	28.7	29.5	29.5	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	37.2	37.8	38.0	38.5	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	35.2	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, 2431 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.1)

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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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

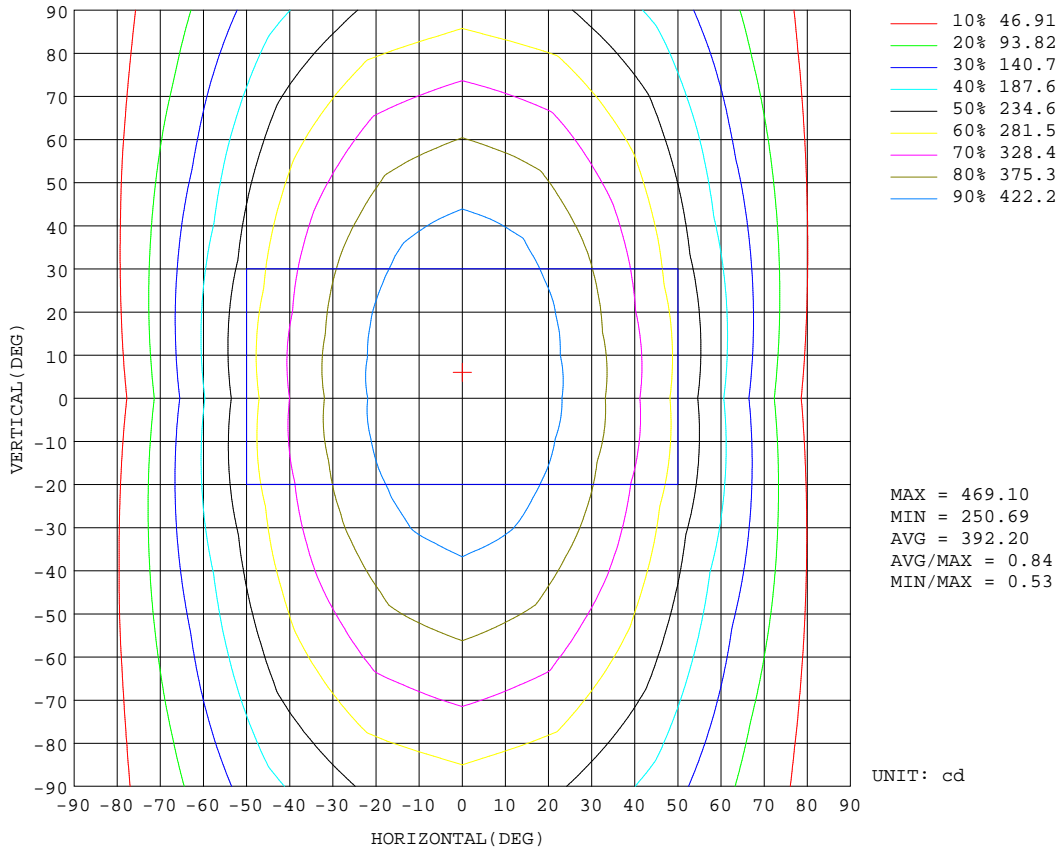
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	46	33	26	45	33	26	42	32	25	18
0.80	55	42	34	53	41	33	50	39	32	24
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	76	68	62	48
3.00	90	81	73	86	77	71	79	72	66	51
4.00	95	87	80	91	83	77	83	77	72	56
5.00	98	91	85	93	87	82	85	80	75	59
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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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

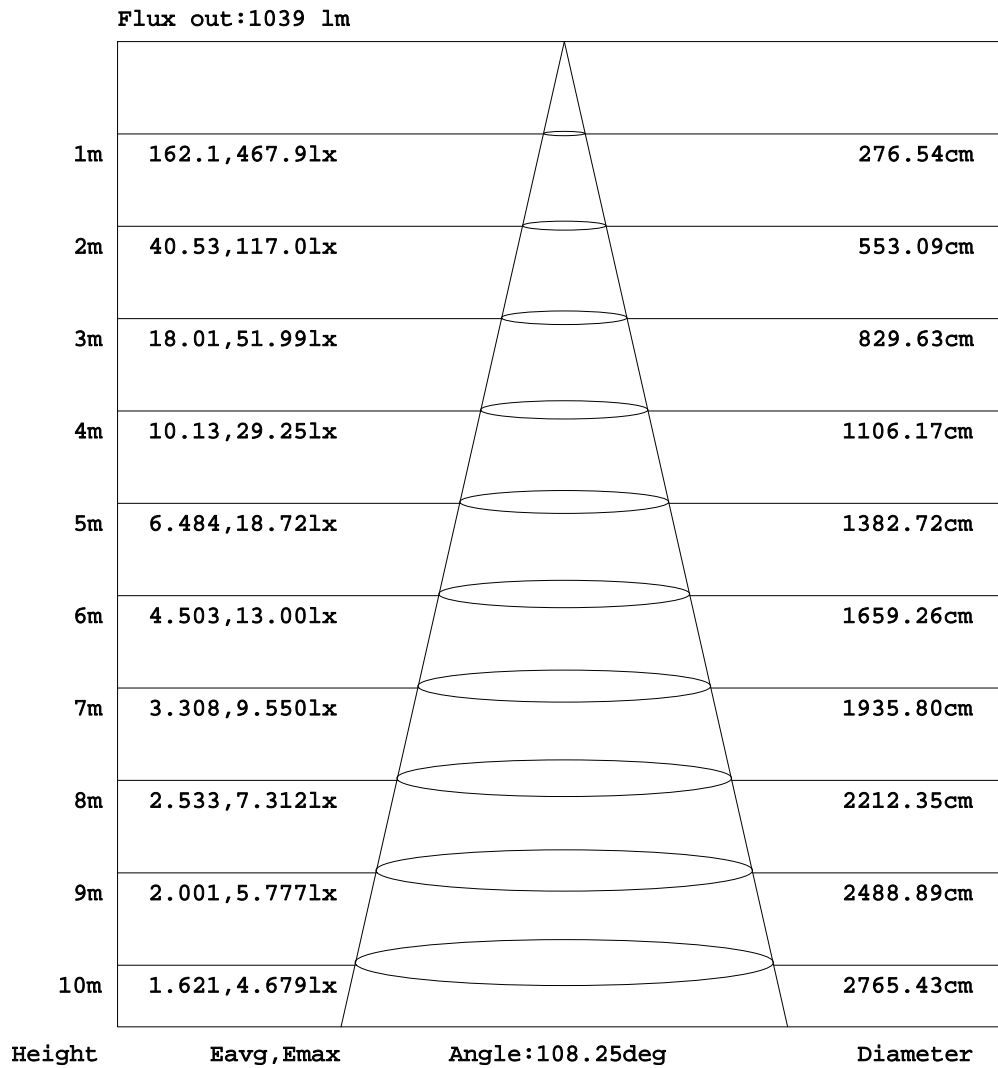


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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



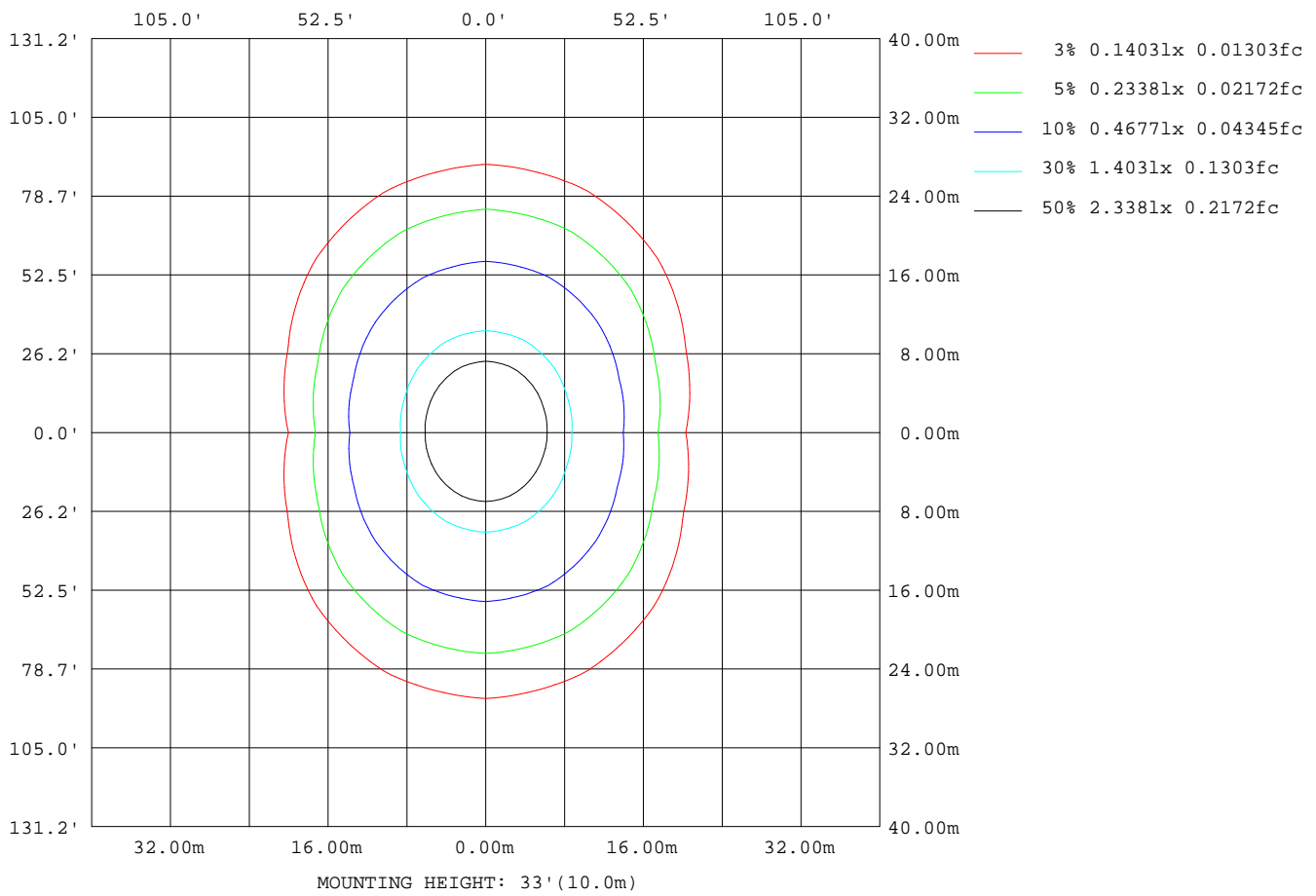
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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

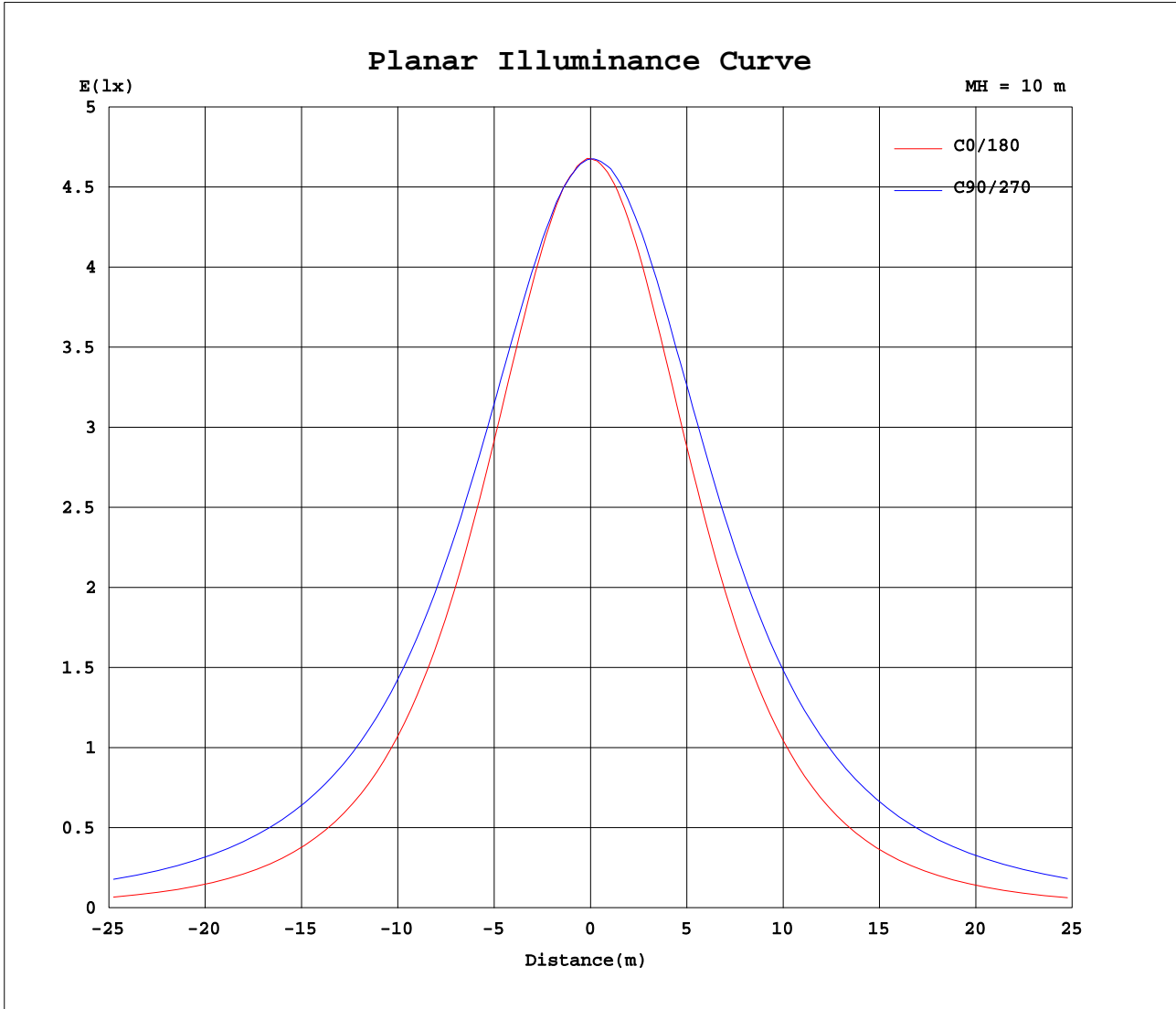
AvgL	cd/m2
L_0~180(65)av	81360
L_0~180(75)av	62442
L_0~180(85)av	24043
L_90~270(65)av	194107
L_90~270(75)av	286047
L_90~270(85)av	751397
L_45(65)av	150322
L_45(75)av	207650
L_45(85)av	512572

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:120.06V I:0.2276A P:25W PF:0.9229 Freq:60.00Hz Lamp Flux:1950x1 lm		
NAME: ASD-LVF22-24D25CC-NK 3000K	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	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467			
5	464	465	465	465	465	465	464	464	464	466	467	468	468	468	467	466			
10	459	459	459	460	461	460	459	458	457	460	463	467	468	467	464	461			
15	448	448	451	455	455	454	450	447	446	450	457	464	467	464	458	451			
20	433	435	440	447	449	446	439	433	429	436	447	458	462	459	449	438			
25	414	417	427	438	443	437	426	415	409	418	435	451	457	452	438	421			
30	391	395	411	428	434	427	410	393	386	398	420	442	451	443	424	401			
35	365	371	394	417	425	416	393	370	358	374	403	430	442	433	407	378			
40	335	345	375	404	415	404	375	343	328	348	384	418	432	420	389	352			
45	303	317	355	390	404	390	355	315	296	319	364	403	420	406	369	324			
50	268	287	334	376	392	376	334	286	260	289	342	388	406	391	347	294			
55	231	256	313	361	379	361	313	255	223	257	320	371	392	375	326	263			
60	192	224	291	345	365	346	292	225	185	226	297	354	377	358	303	232			
65	152	193	270	329	349	329	272	194	145	194	275	336	360	340	281	200			
70	112	162	249	311	333	312	252	165	105	163	253	317	342	321	259	170			
75	73.2	135	228	293	316	295	231	139	66.4	135	231	298	323	302	238	143			
80	37.2	111	209	275	299	277	212	116	32.3	110	210	278	304	282	217	118			
85	10.5	91.0	190	257	282	259	194	96.2	7.64	89.6	191	259	284	262	197	96.6			
90	0.53	75.4	173	240	264	241	177	80.9	0.45	73.7	172	240	265	243	178	80.2			
95	0.95	64.5	158	222	246	224	162	69.8	0.96	62.3	156	221	246	225	162	68.1			
100	2.24	56.3	144	206	228	207	148	61.5	2.28	54.2	141	203	227	207	146	59.4			
105	4.28	50.9	131	189	211	191	134	55.3	4.41	48.6	127	186	208	189	131	53.0			
110	6.87	46.6	119	173	193	175	122	50.6	7.01	44.0	114	169	190	172	119	47.9			
115	9.55	42.9	108	157	176	159	111	46.4	9.67	40.5	103	153	172	155	107	43.8			
120	12.6	40.1	97.6	142	159	144	101	43.1	12.6	37.7	92.6	137	155	139	96.0	40.5			
125	15.9	37.4	87.4	128	143	129	90.1	40.2	15.5	35.2	82.3	122	138	124	85.0	37.6			
130	18.8	35.0	78.2	114	128	115	80.7	37.5	18.2	32.9	73.3	107	121	109	75.8	35.2			
135	21.7	34.3	69.7	99.7	112	101	71.9	36.0	20.8	31.5	64.7	93.5	105	95.3	67.4	34.2			
140	23.8	34.5	61.4	87.2	97.3	88.2	63.7	35.7	23.3	29.8	56.2	80.7	90.9	82.9	60.1	34.3			
145	26.4	35.8	53.9	75.2	83.5	76.2	55.7	36.2	25.4	29.0	47.7	68.1	77.6	71.9	54.0	35.2			
150	29.1	36.9	48.1	64.0	70.6	64.8	49.1	36.7	28.0	29.9	41.3	56.1	64.7	61.9	48.8	36.9			
155	31.9	36.9	44.8	53.6	58.5	54.1	45.6	36.4	30.5	29.7	35.4	46.5	53.0	52.3	46.2	38.4			
160	33.0	37.8	43.7	47.9	50.4	48.2	43.8	36.7	30.0	28.4	35.6	40.7	45.7	46.4	43.0	39.3			
165	29.1	35.1	42.5	45.1	46.0	45.2	40.1	31.5	26.0	26.3	30.2	36.7	41.3	42.2	41.2	39.1			
170	22.7	25.1	37.9	42.5	43.1	40.3	29.6	23.6	21.2	21.2	22.0	26.5	34.7	39.7	38.9	34.6			
175	21.5	21.2	26.0	35.8	34.1	25.3	21.0	22.0	22.9	22.8	22.8	21.1	21.1	29.8	32.2	23.9			
180	35.2	34.1	28.0	18.1	13.1	17.8	26.8	33.8	34.6	34.7	32.7	28.5	20.0	12.5	19.6	27.3			

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