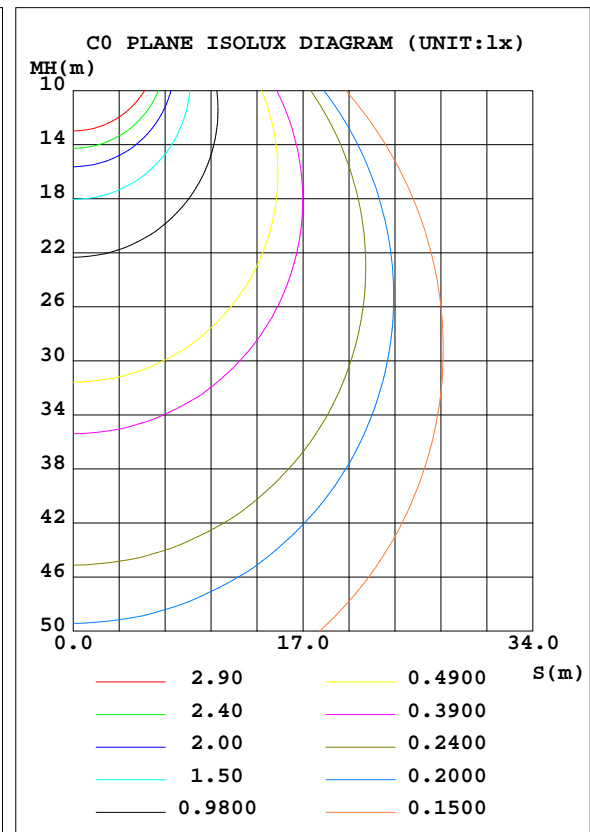
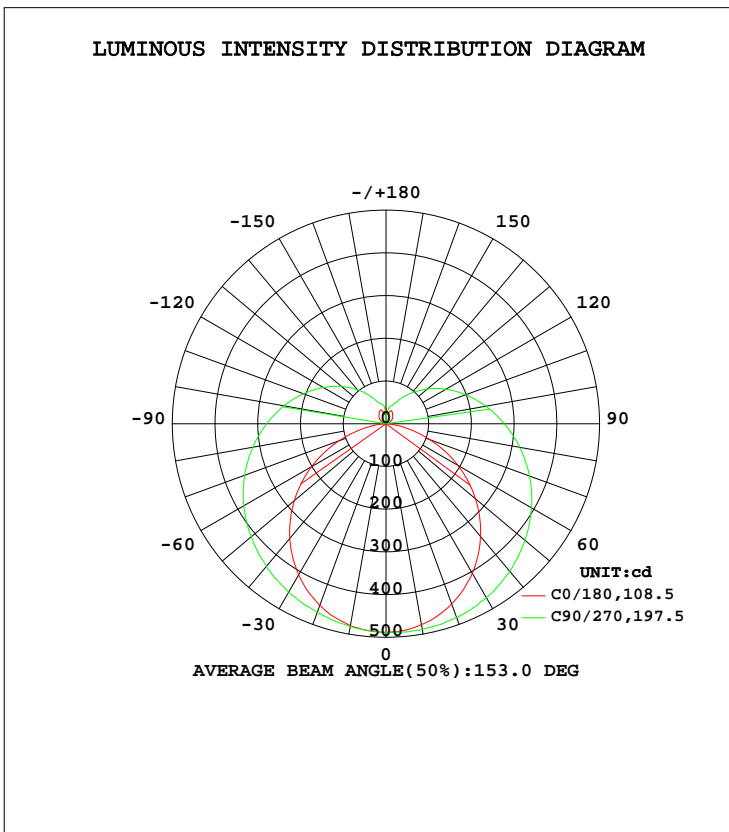


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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: 82 lm/W			
MODEL ASD-LVF22-24D25CC-NK 5000K		Imax(cd)	489.9	S/MH(C0/180)	1.24
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.45
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2050	η UP, DN(C0-180)	12.2, 37.8
NOMINAL FLUX(lm)	2050	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	11.6, 38.4
LAMPS INSIDE	1	η up(%)	23.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	76.2	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	479.6	479.5	481.7	479.6	477.3	483.8	489.2	484.9	0- 10	46.32	46.32	1.81,1.81
20	452.2	459.4	470.0	460.2	449.1	466.6	483.1	469.3	10- 20	134.1	180.4	7.06,7.06
30	408.6	429.0	455.3	431.5	404.0	438.3	470.5	443.1	20- 30	208.0	388.4	15.2,15.2
40	350.4	391.4	435.5	395.3	344.2	400.4	450.9	407.5	30- 40	261.3	649.7	25.4,25.4
50	280.0	348.0	411.8	354.3	273.2	356.1	424.4	365.3	40- 50	289.8	939.4	36.8,36.8
60	201.2	302.6	384.3	311.6	194.2	308.7	393.3	319.9	50- 60	293.2	1233	48.3,48.3
70	117.6	258.7	351.9	269.4	110.0	262.1	357.1	274.4	60- 70	274.5	1507	59,59
80	39.47	216.8	316.5	228.5	34.24	217.2	318.0	230.3	70- 80	239.8	1747	68.4,68.4
90	0.7391	179.8	279.4	191.7	0.5527	177.3	277.0	190.2	80- 90	199.5	1946	76.2,76.2
100	2.467	149.3	242.6	160.6	2.616	144.8	237.5	156.3	90-100	164.9	2111	82.7,82.7
110	7.510	123.6	205.6	133.4	7.871	117.1	198.7	126.7	100-110	134.0	2245	87.9,87.9
120	14.00	101.8	169.9	110.0	14.27	94.77	161.8	102.5	110-120	104.9	2350	92,92
130	20.45	81.80	136.5	88.34	19.96	75.10	126.7	80.83	120-130	78.13	2428	95.1,95.1
140	25.77	64.86	104.0	69.73	24.73	57.69	95.04	63.82	130-140	54.55	2483	97.2,97.2
150	30.89	50.72	75.75	53.19	30.00	42.69	67.43	51.70	140-150	35.69	2518	98.6,98.6
160	34.46	46.21	53.69	46.88	32.10	38.02	47.93	45.31	150-160	21.59	2540	99.4,99.4
170	23.45	39.95	45.78	32.67	22.81	23.66	35.85	41.18	160-170	11.23	2551	99.9,99.9
180	37.29	29.97	0	30.00	36.66	34.83	21.66	20.30	170-180	2.821	2554	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 792.6 lm

%lum = 31.0%

%lamp = 31.0%

Conical surface Flux(120deg): 1232.7 lm

%lum = 48.3%

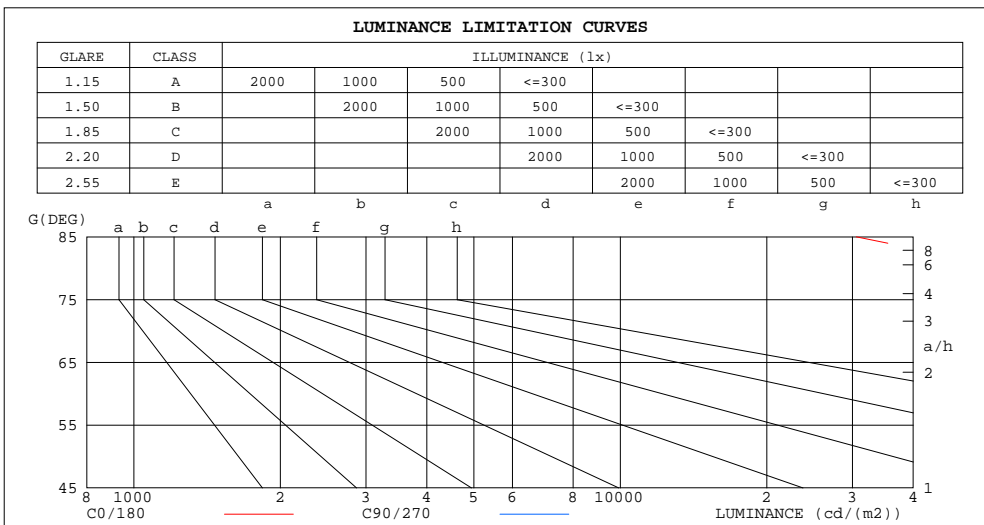
%lamp = 48.3%

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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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	30544	792081
80	52617	422214
75	68676	299366
70	79587	238298
65	87363	201911
60	93141	178022
55	97583	161013
50	100848	148395
45	103608	139019

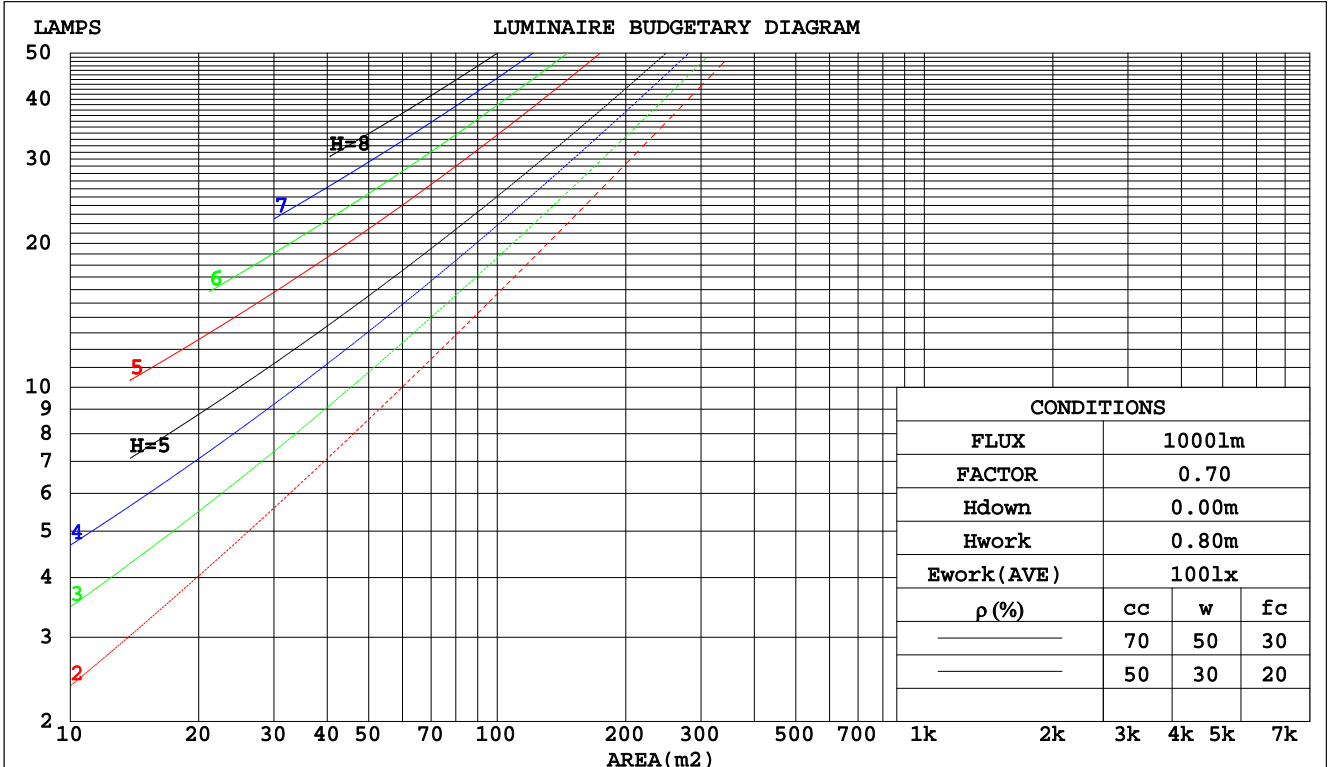
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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	.55	.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	.42	.38	.34	.30
5.0	.54	.45	.38	.51	.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	.19
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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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	.297	.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	.198	.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	.372	.372	.372	.318	.318	.318	.217	.217	.217	.125	.125	.125	.040	.040	.040	
1.0	.369	.338	.311	.315	.290	.268	.216	.200	.185	.124	.116	.108	.040	.037	.035	
2.0	.362	.316	.277	.310	.272	.239	.212	.188	.167	.122	.109	.098	.039	.035	.032	
3.0	.355	.299	.256	.304	.258	.222	.209	.179	.155	.121	.105	.092	.039	.034	.030	
4.0	.347	.287	.242	.298	.248	.210	.205	.173	.148	.118	.101	.087	.038	.033	.029	
5.0	.339	.278	.232	.291	.240	.202	.201	.168	.143	.116	.098	.085	.037	.032	.028	
6.0	.332	.270	.225	.285	.234	.196	.197	.163	.139	.114	.096	.082	.037	.031	.027	
7.0	.325	.263	.220	.279	.228	.192	.193	.160	.136	.112	.094	.081	.036	.031	.027	
8.0	.318	.258	.216	.274	.224	.188	.189	.157	.134	.110	.093	.080	.036	.030	.026	
9.0	.312	.253	.213	.269	.220	.186	.186	.154	.132	.108	.091	.079	.035	.030	.026	
10.0	.306	.249	.211	.264	.216	.184	.183	.152	.131	.107	.090	.078	.035	.030	.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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm										
NAME: ASD-LVF22-24D25CC-NK 5000K					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	23.5	24.9	24.1	25.4	26.1	26.2	27.6	26.8	28.1	28.8
3H	25.0	26.2	25.6	26.8	27.5	29.1	30.3	29.7	31.0	31.7
4H	25.5	26.7	26.1	27.3	28.0	30.7	31.9	31.4	32.5	33.2
6H	25.9	27.0	26.5	27.6	28.4	32.5	33.6	33.2	34.2	35.0
8H	26.0	27.0	26.6	27.7	28.4	33.5	34.5	34.2	35.2	36.0
12H	26.0	27.0	26.6	27.7	28.4	34.6	35.6	35.3	36.3	37.1
4H 2H	24.8	26.0	25.5	26.6	27.4	26.8	27.9	27.4	28.5	29.3
3H	26.5	27.5	27.2	28.2	29.0	29.9	30.9	30.6	31.6	32.4
4H	27.3	28.2	28.0	28.9	29.7	31.7	32.6	32.4	33.3	34.1
6H	27.9	28.7	28.6	29.4	30.2	33.7	34.5	34.4	35.3	36.1
8H	28.0	28.8	28.8	29.5	30.4	34.8	35.6	35.6	36.3	37.2
12H	28.1	28.9	28.9	29.6	30.5	36.1	36.8	36.9	37.6	38.5
8H 4H	28.6	29.4	29.4	30.1	31.0	32.0	32.8	32.8	33.5	34.4
6H	29.6	30.3	30.4	31.0	31.9	34.4	35.0	35.1	35.8	36.7
8H	30.0	30.6	30.8	31.4	32.3	35.7	36.3	36.5	37.1	38.0
12H	30.3	30.9	31.1	31.6	32.6	37.3	37.8	38.0	38.6	39.5
12H 4H	29.1	29.8	29.8	30.5	31.4	32.0	32.7	32.8	33.5	34.4
6H	30.4	31.0	31.1	31.7	32.7	34.5	35.0	35.2	35.8	36.7
8H	31.0	31.5	31.8	32.3	33.3	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 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 2554 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.3)

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:

UTILIZATION FACTORS TABLE

Test:U:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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

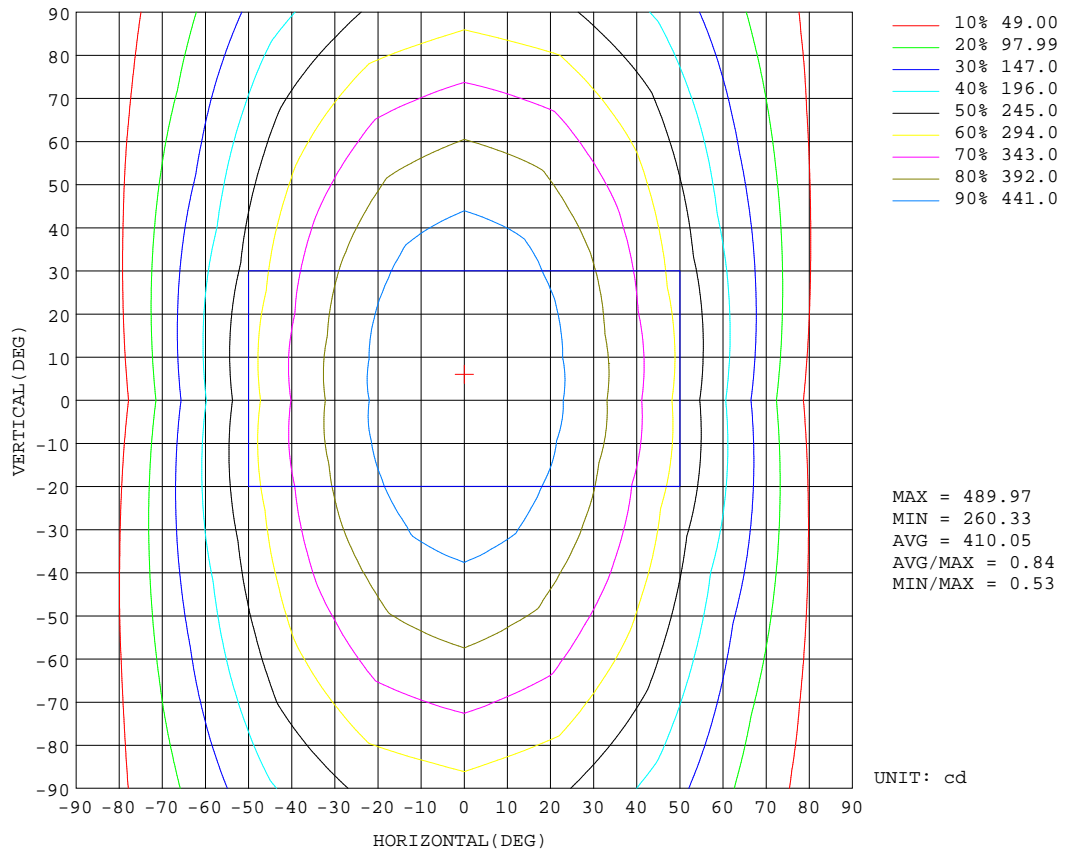
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	26	44	33	26	42	32	25	18
0.80	55	42	34	53	41	33	50	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	78	72	66	51
4.00	95	87	80	90	83	77	82	77	72	55
5.00	98	91	85	93	87	81	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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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

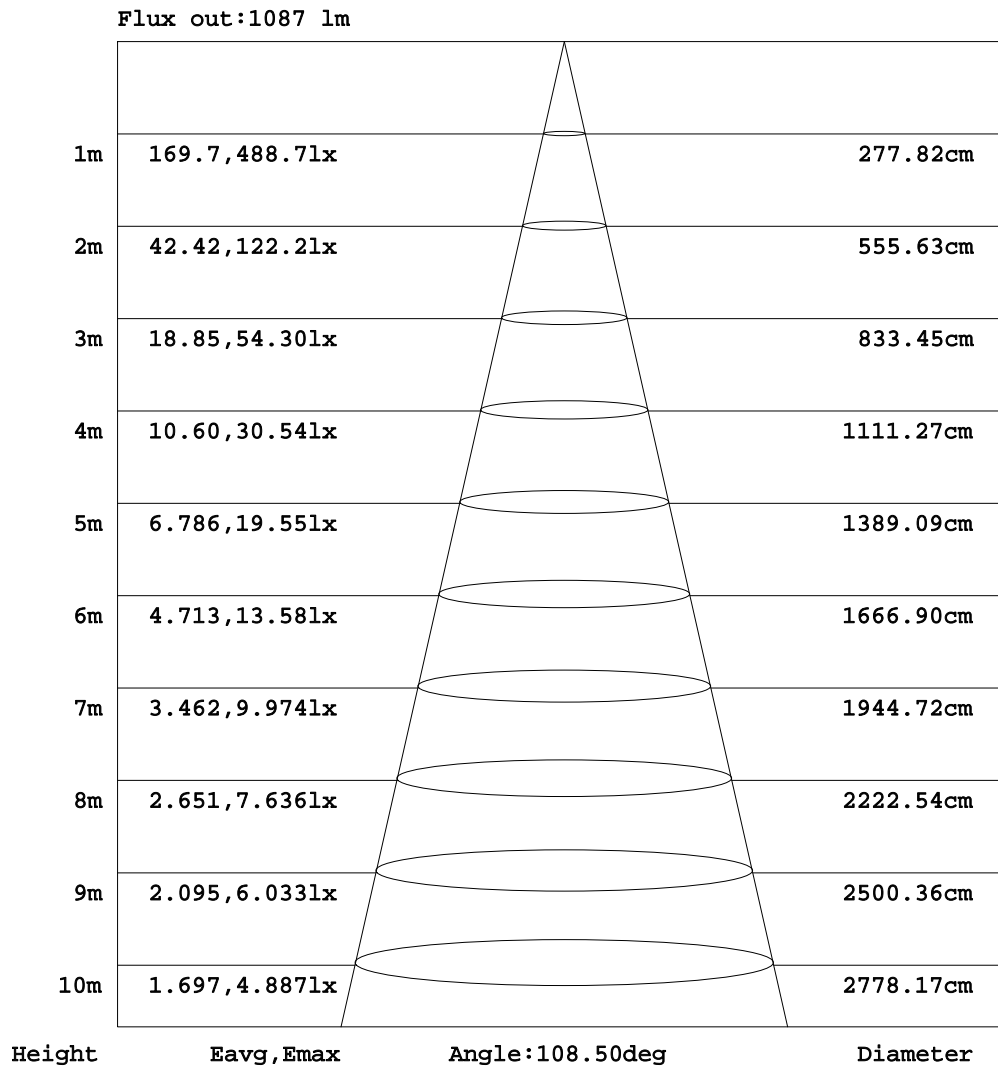


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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



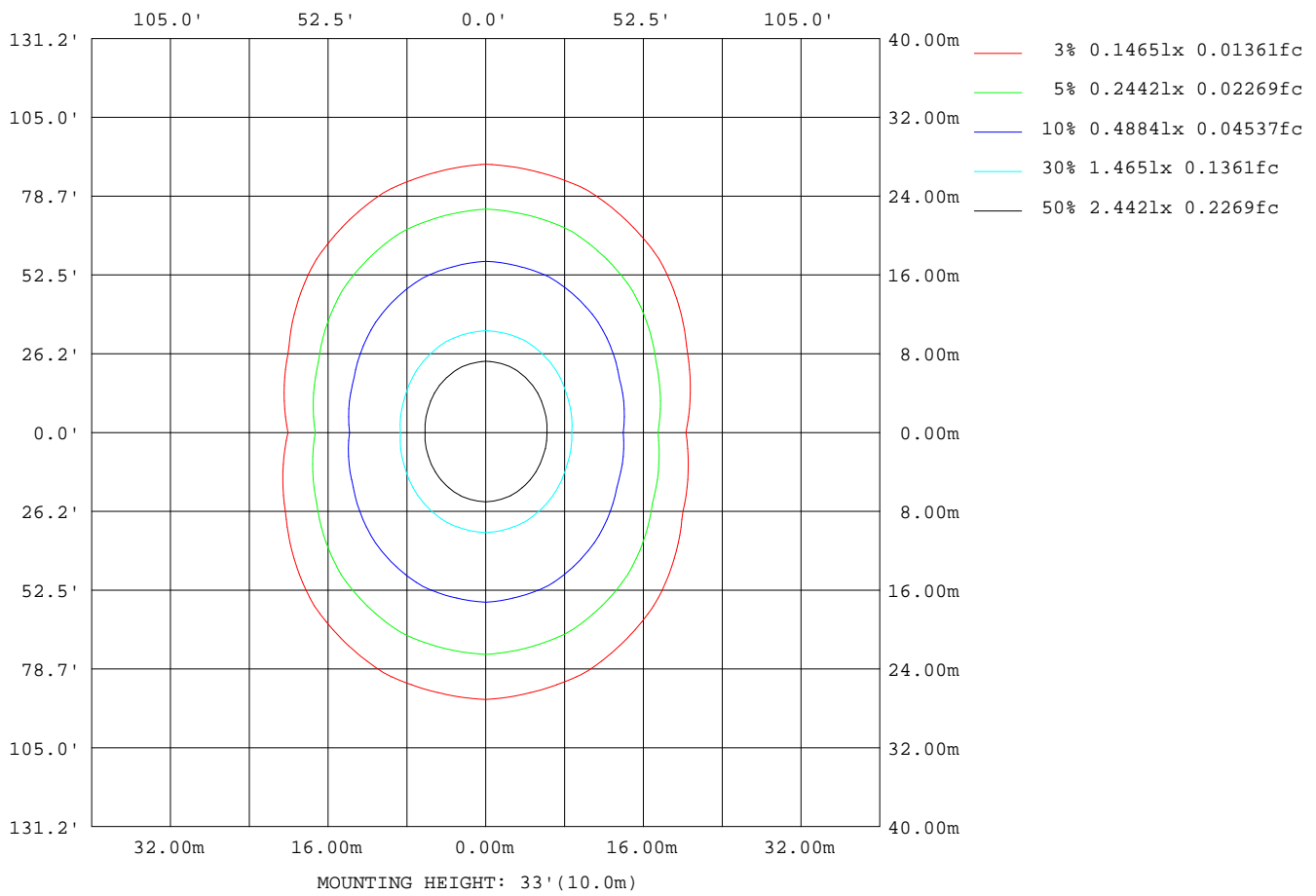
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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

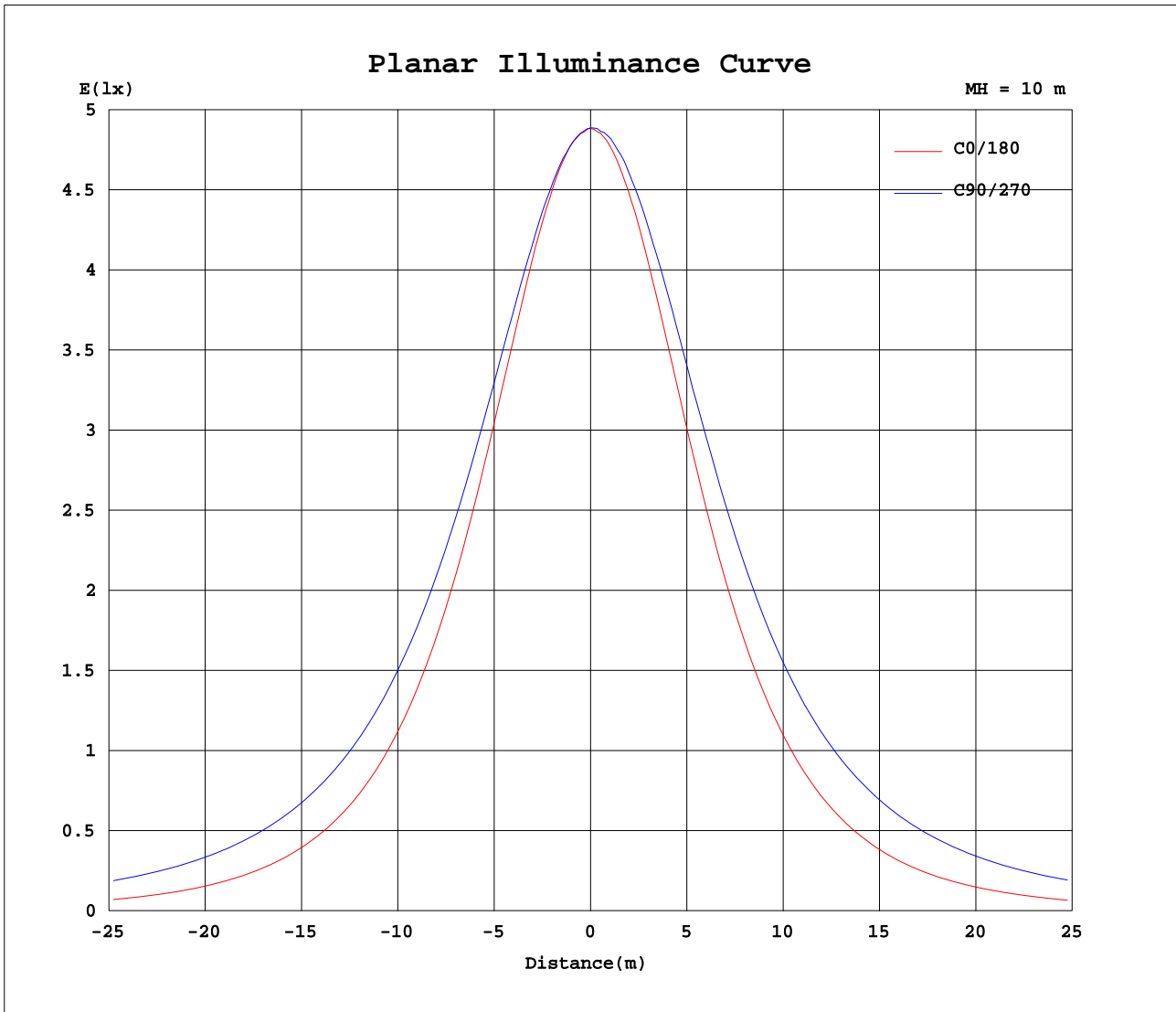
AvgL	cd/m2
L_0~180(65)av	85513
L_0~180(75)av	65659
L_0~180(85)av	26537
L_90~270(65)av	203847
L_90~270(75)av	300670
L_90~270(85)av	790722
L_45(65)av	157841
L_45(75)av	218437
L_45(85)av	539750

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:120.14V I:0.2278A P:25W PF:0.9230 Freq:60.00Hz Lamp Flux:2050x1 lm		
NAME: ASD-LVF22-24D25CC-NK 5000K	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	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488			
5	486	486	486	486	486	486	486	486	486	486	488	489	489	490	489	487			
10	480	479	480	481	482	481	480	479	477	481	484	488	489	488	485	481			
15	468	468	471	475	476	475	472	468	466	470	477	483	487	485	479	472			
20	452	453	459	467	470	468	460	453	449	456	467	478	483	480	469	458			
25	433	435	445	458	463	459	447	435	429	437	454	470	477	472	458	440			
30	409	412	429	447	455	448	432	413	404	415	438	461	470	464	443	419			
35	381	387	411	436	446	438	414	389	376	391	420	449	461	453	426	395			
40	350	360	391	423	436	425	395	362	344	363	400	436	451	440	408	369			
45	317	330	370	408	424	411	376	333	310	333	379	421	438	426	387	340			
50	280	298	348	393	412	397	354	302	273	301	356	405	424	410	365	309			
55	242	265	326	378	399	382	333	271	235	267	332	387	410	393	343	277			
60	201	232	303	361	384	366	312	239	194	234	309	369	393	376	320	245			
65	160	199	281	344	368	350	290	208	153	200	285	350	376	357	297	213			
70	118	167	259	326	352	332	269	178	110	167	262	330	357	337	274	182			
75	76.8	138	237	308	335	314	249	151	70.0	137	239	310	338	318	252	154			
80	39.5	112	217	289	317	295	229	127	34.2	111	217	290	318	297	230	127			
85	11.5	91.3	198	270	298	276	210	107	8.48	89.7	196	269	297	277	209	106			
90	0.74	75.1	180	252	279	258	192	90.6	0.55	73.0	177	249	277	257	190	88.5			
95	1.11	64.1	164	234	261	240	176	78.8	1.09	61.4	160	230	257	237	172	75.5			
100	2.47	56.0	149	217	243	223	161	69.7	2.62	53.3	145	211	237	218	156	65.9			
105	4.58	50.9	136	199	224	205	146	63.1	4.85	47.8	130	193	218	199	141	58.7			
110	7.51	46.7	124	182	206	188	133	57.5	7.87	43.3	117	175	199	181	127	53.0			
115	10.7	43.2	112	166	188	171	121	52.6	11.1	40.0	106	159	180	164	114	48.2			
120	14.0	40.6	102	150	170	155	110	48.8	14.3	37.4	94.8	143	162	147	103	44.4			
125	17.4	38.1	91.2	135	153	140	98.8	45.4	17.3	35.1	84.3	126	145	130	90.9	40.9			
130	20.4	35.8	81.8	120	137	124	88.3	42.3	20.0	33.2	75.1	111	127	115	80.8	38.1			
135	23.4	35.5	73.0	106	119	109	78.7	39.6	22.3	31.9	66.4	97.0	110	100	71.8	36.7			
140	25.8	36.1	64.9	92.4	104	95.4	69.7	39.1	24.7	30.3	57.7	83.5	95.0	87.4	63.8	36.6			
145	28.2	37.5	56.7	79.9	89.4	82.3	61.1	39.3	27.1	30.3	48.9	70.5	80.8	75.8	57.3	37.4			
150	30.9	38.7	50.7	68.1	75.8	70.2	53.2	39.9	30.0	31.2	42.7	58.0	67.4	65.0	51.7	39.1			
155	33.9	38.9	47.3	56.9	63.0	58.9	49.1	39.5	32.7	30.7	37.5	48.7	55.2	55.0	48.8	40.5			
160	34.5	39.8	46.2	50.9	53.7	51.7	46.9	39.4	32.1	30.3	38.0	41.6	47.9	48.9	45.3	41.4			
165	30.0	36.6	45.0	47.8	48.8	48.2	43.4	34.5	28.0	28.7	32.1	38.7	43.6	44.3	43.5	41.3			
170	23.4	25.6	40.0	45.1	45.8	43.6	32.7	25.7	22.8	22.8	23.7	27.8	35.9	41.9	41.2	36.7			
175	22.4	22.0	26.8	37.7	36.6	28.4	22.7	23.6	24.7	24.6	24.5	22.9	22.3	30.6	34.0	25.3			
180	37.3	36.3	30.0	20.4	0.00	19.5	30.0	36.7	36.7	36.7	34.8	30.4	21.7	13.8	20.3	28.8			

C Range: 0 - 360DEG
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