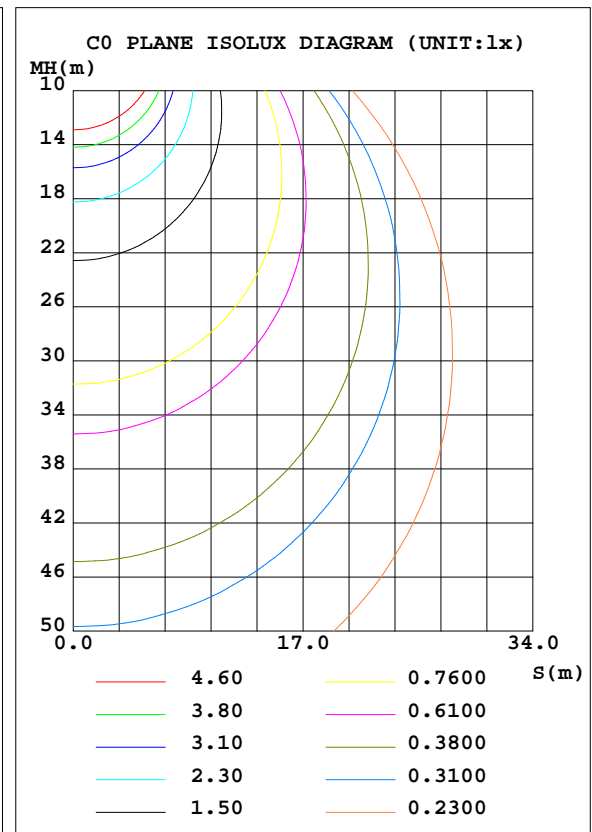
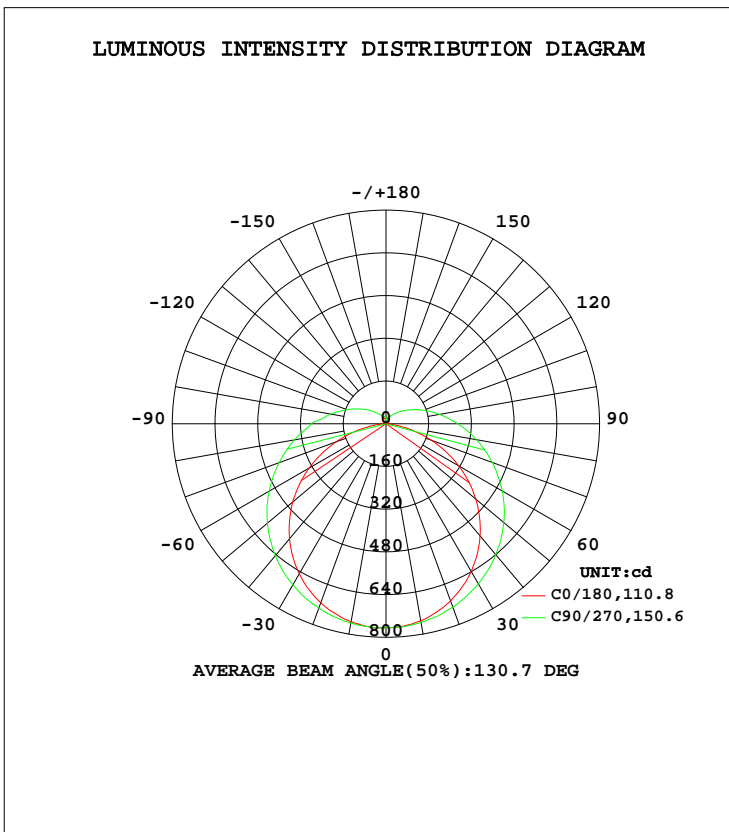


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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: 88 lm/W			
MODEL ASD-LVF21-36D30CC-NK/BK 4000K	Imax(cd)	765.4	S/MH(C0/180)	1.24	
NOMINAL POWER(W)	LOR(%)	100.0	S/MH(C90/270)	1.35	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2640	η UP, DN(C0-180)	7.0,43.5
NOMINAL FLUX(lm)	2640	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	6.6,42.8
LAMPS INSIDE	1	η up(%)	13.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	86.3	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 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	752.9	756.0	758.1	754.8	749.1	750.9	755.3	753.1	0- 10	72.48	72.48	2.3,2.3
20	713.6	725.5	735.1	721.6	707.0	717.6	731.0	721.0	10- 20	209.1	281.6	8.95,8.95
30	649.5	675.6	696.9	668.9	639.1	664.1	692.4	667.6	20- 30	321.8	603.4	19.2,19.2
40	562.9	607.8	644.7	599.1	548.1	594.6	639.4	597.8	30- 40	398.4	1002	31.8,31.8
50	456.3	524.7	579.7	514.2	439.2	512.4	575.8	514.4	40- 50	431.2	1433	45.5,45.5
60	332.8	433.5	505.2	421.7	314.0	422.1	503.0	423.4	50- 60	418.9	1852	58.8,58.8
70	199.0	340.9	426.1	328.6	180.3	330.7	423.6	330.4	60- 70	366.9	2219	70.5,70.5
80	70.55	255.6	348.2	243.5	55.04	245.7	343.7	243.7	70- 80	289.3	2508	79.7,79.7
90	0.5096	186.2	280.9	175.0	0.1437	174.8	269.2	171.6	80- 90	208.2	2716	86.3,86.3
100	1.494	130.0	209.9	121.1	1.803	120.0	203.8	116.4	90-100	146.7	2863	91,91
110	6.097	88.38	155.6	82.99	6.675	81.93	149.5	78.64	100-110	101.1	2964	94.2,94.2
120	11.16	60.83	111.1	57.34	11.92	56.61	105.1	53.86	110-120	67.94	3032	96.3,96.3
130	16.23	43.02	77.39	41.51	16.87	40.23	72.49	38.44	120-130	44.85	3077	97.8,97.8
140	20.87	33.19	52.64	32.95	21.12	29.88	48.99	29.77	130-140	29.28	3106	98.7,98.7
150	24.70	28.88	37.82	28.91	24.56	24.35	33.70	26.54	140-150	19.20	3125	99.3,99.3
160	23.54	27.26	30.05	26.90	22.85	21.18	26.02	24.55	150-160	12.52	3138	99.7,99.7
170	19.34	27.18	28.75	23.01	19.11	19.77	24.04	25.17	160-170	6.987	3145	99.9,99.9
180	23.79	23.39	13.02	21.51	23.48	22.89	17.72	19.27	170-180	2.165	3147	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1216.2 lm

%lum = 38.6%

%lamp = 38.6%

Conical surface Flux(120deg): 1851.9 lm

%lum = 58.8%

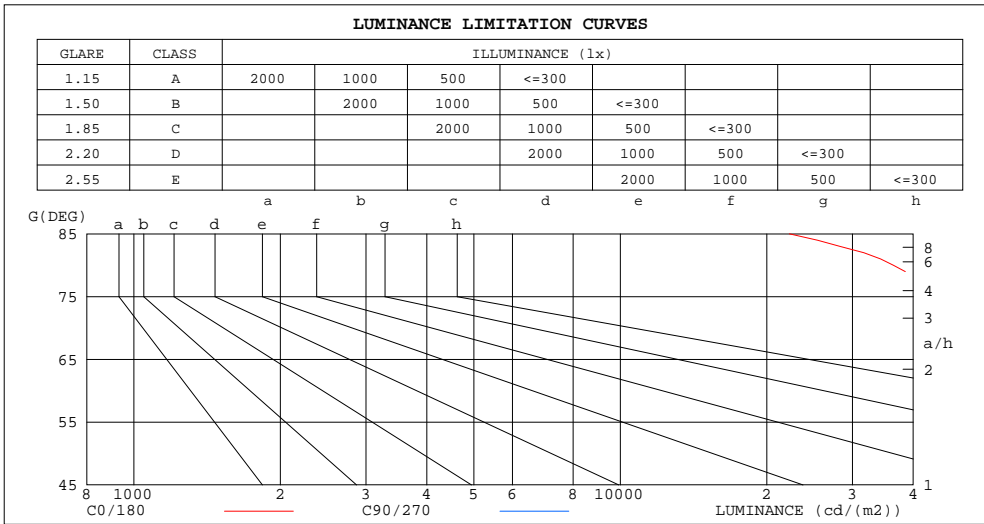
%lamp = 58.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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	22254	319200
80	36405	179734
75	45656	133978
70	52128	111678
65	56484	98983
60	59643	90565
55	61786	85095
50	63605	80835
45	64729	77846

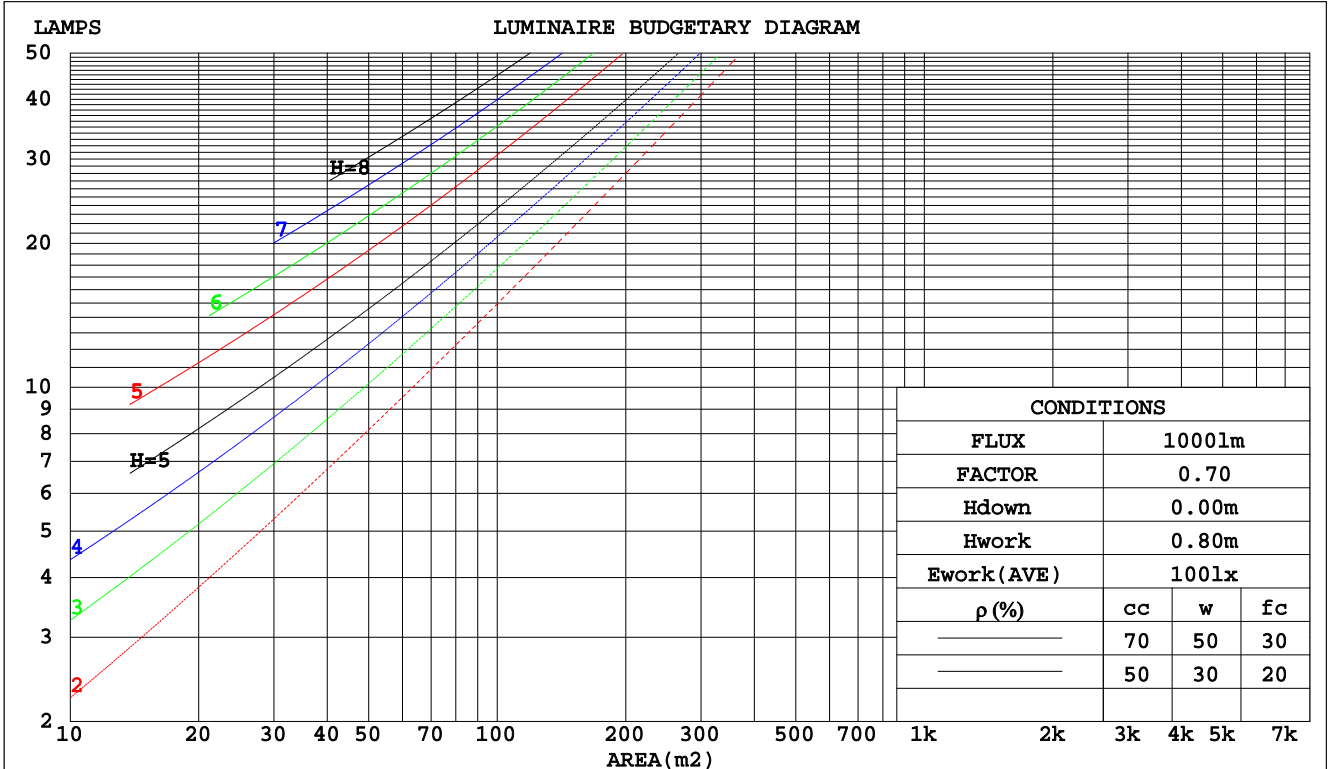
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Operators:Hill
 Test Date:2022-05-21

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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.96	.96	.96	.89	.89	.89	.86
1.0	.97	.92	.87	.94	.89	.85	.87	.83	.79	.80	.77	.75	.75	.72	.70	.67
2.0	.83	.76	.69	.80	.73	.67	.74	.69	.64	.69	.64	.60	.64	.60	.57	.54
3.0	.72	.64	.56	.70	.62	.55	.65	.58	.52	.60	.54	.50	.56	.51	.47	.44
4.0	.64	.54	.47	.61	.53	.46	.57	.50	.44	.53	.47	.42	.49	.44	.40	.37
5.0	.57	.47	.40	.55	.46	.39	.51	.43	.38	.47	.41	.36	.44	.39	.34	.32
6.0	.51	.41	.35	.49	.40	.34	.46	.38	.33	.43	.36	.31	.40	.34	.30	.28
7.0	.46	.37	.30	.44	.36	.30	.42	.34	.29	.39	.32	.28	.36	.31	.26	.24
8.0	.42	.33	.27	.40	.32	.26	.38	.31	.25	.36	.29	.24	.33	.28	.24	.21
9.0	.38	.30	.24	.37	.29	.24	.35	.28	.23	.33	.26	.22	.31	.25	.21	.19
10.0	.35	.27	.22	.34	.26	.21	.32	.25	.21	.30	.24	.20	.29	.23	.19	.17



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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	.374	.213	.067	.363	.207	.066	.341	.196	.063	.322	.185	.060	.304	.176	.057	
2.0	.328	.180	.055	.317	.175	.054	.298	.166	.051	.280	.157	.049	.264	.149	.047	
3.0	.293	.156	.047	.284	.152	.046	.266	.144	.044	.250	.137	.042	.235	.130	.040	
4.0	.264	.137	.040	.256	.134	.040	.241	.128	.038	.226	.121	.037	.212	.115	.035	
5.0	.241	.123	.036	.234	.120	.035	.219	.114	.034	.206	.109	.032	.194	.104	.031	
6.0	.221	.111	.032	.214	.108	.031	.202	.103	.030	.190	.098	.029	.178	.094	.028	
7.0	.204	.101	.029	.198	.099	.028	.186	.094	.027	.175	.090	.026	.165	.086	.025	
8.0	.190	.093	.026	.184	.091	.026	.173	.087	.025	.163	.083	.024	.154	.079	.023	
9.0	.177	.086	.024	.172	.084	.023	.162	.080	.023	.153	.077	.022	.144	.073	.021	
10.0	.166	.079	.022	.161	.078	.022	.152	.074	.021	.143	.071	.020	.135	.068	.020	

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	.295	.295	.295	.252	.252	.252	.172	.172	.172	.099	.099	.099	.032	.032	.032	
1.0	.290	.261	.234	.248	.224	.202	.170	.154	.140	.098	.089	.081	.031	.029	.026	
2.0	.283	.238	.200	.242	.205	.172	.166	.141	.120	.096	.082	.071	.031	.027	.023	
3.0	.275	.221	.177	.236	.191	.154	.162	.132	.108	.094	.077	.064	.030	.025	.021	
4.0	.267	.208	.163	.230	.180	.142	.158	.125	.100	.091	.073	.059	.029	.024	.019	
5.0	.260	.198	.153	.223	.172	.133	.154	.120	.094	.089	.070	.056	.029	.023	.018	
6.0	.252	.190	.146	.217	.165	.127	.150	.115	.090	.087	.068	.053	.028	.022	.018	
7.0	.245	.184	.140	.211	.159	.122	.146	.112	.087	.085	.066	.052	.027	.022	.017	
8.0	.239	.178	.136	.205	.154	.119	.142	.108	.084	.083	.064	.050	.027	.021	.017	
9.0	.232	.173	.133	.200	.150	.116	.139	.106	.082	.081	.062	.049	.026	.020	.016	
10.0	.227	.169	.131	.195	.147	.114	.135	.103	.081	.079	.061	.048	.026	.020	.016	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm										
NAME: ASD-LVF21-36D30CC-NK/BK 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	22.2	23.6	22.6	24.0	24.5	23.9	25.3	24.3	25.7	26.2
3H	23.6	25.0	24.1	25.4	25.9	26.4	27.7	26.9	28.2	28.7
4H	24.2	25.5	24.7	26.0	26.5	27.7	29.0	28.3	29.5	30.0
6H	24.6	25.8	25.1	26.3	26.8	29.2	30.4	29.8	30.9	31.5
8H	24.7	25.8	25.2	26.3	26.9	30.1	31.2	30.6	31.7	32.3
12H	24.7	25.8	25.3	26.3	26.9	31.0	32.1	31.6	32.6	33.2
4H 2H	23.2	24.4	23.7	24.9	25.5	24.4	25.7	25.0	26.2	26.7
3H	24.9	26.0	25.5	26.6	27.1	27.2	28.3	27.7	28.8	29.4
4H	25.7	26.7	26.2	27.2	27.9	28.8	29.8	29.3	30.3	30.9
6H	26.2	27.1	26.8	27.7	28.4	30.5	31.4	31.1	32.0	32.6
8H	26.4	27.3	27.0	27.9	28.5	31.4	32.3	32.0	32.9	33.5
12H	26.5	27.3	27.1	27.9	28.6	32.5	33.3	33.1	33.9	34.6
8H 4H	26.6	27.5	27.2	28.1	28.7	29.1	29.9	29.7	30.5	31.2
6H	27.5	28.2	28.2	28.9	29.6	31.1	31.8	31.8	32.5	33.2
8H	27.9	28.6	28.6	29.2	29.9	32.3	32.9	32.9	33.6	34.3
12H	28.2	28.8	28.9	29.4	30.2	33.6	34.2	34.3	34.9	35.6
12H 4H	26.9	27.7	27.5	28.3	29.0	29.1	29.9	29.7	30.5	31.2
6H	28.1	28.7	28.7	29.3	30.1	31.2	31.9	31.9	32.5	33.3
8H	28.6	29.2	29.3	29.8	30.6	32.5	33.1	33.2	33.7	34.5
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					+ 0.2 / - 0.4				

CIE Pub.117, 3147 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.0)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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

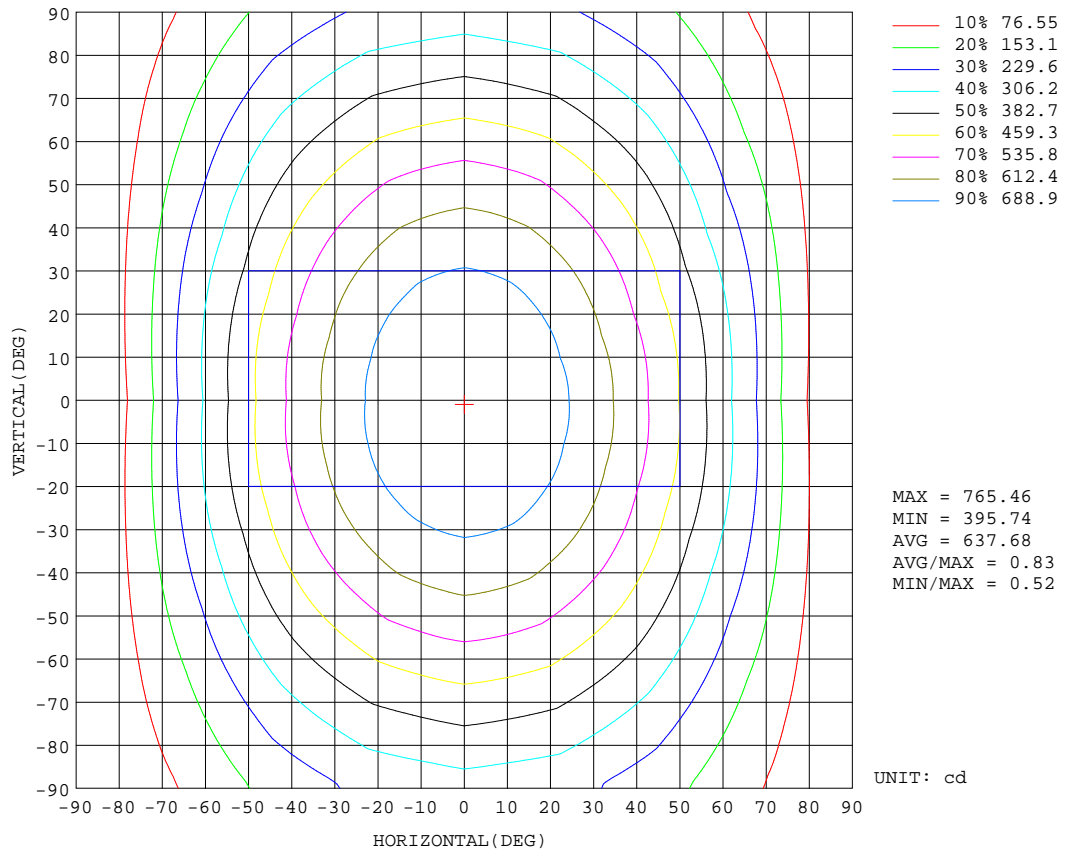
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	30	49	37	30	47	36	30	23
0.80	59	46	38	58	46	38	55	44	37	30
1.00	67	54	46	65	53	46	62	54	45	36
1.25	74	62	53	72	60	53	68	58	51	42
1.50	79	67	59	77	66	58	72	63	56	46
2.00	86	76	68	83	74	66	78	70	64	53
2.50	91	81	73	87	79	72	82	74	69	57
3.00	94	85	78	91	83	76	85	78	73	61
4.00	99	91	85	95	88	83	89	83	79	65
5.00	102	95	90	98	92	87	91	86	82	69
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:25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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

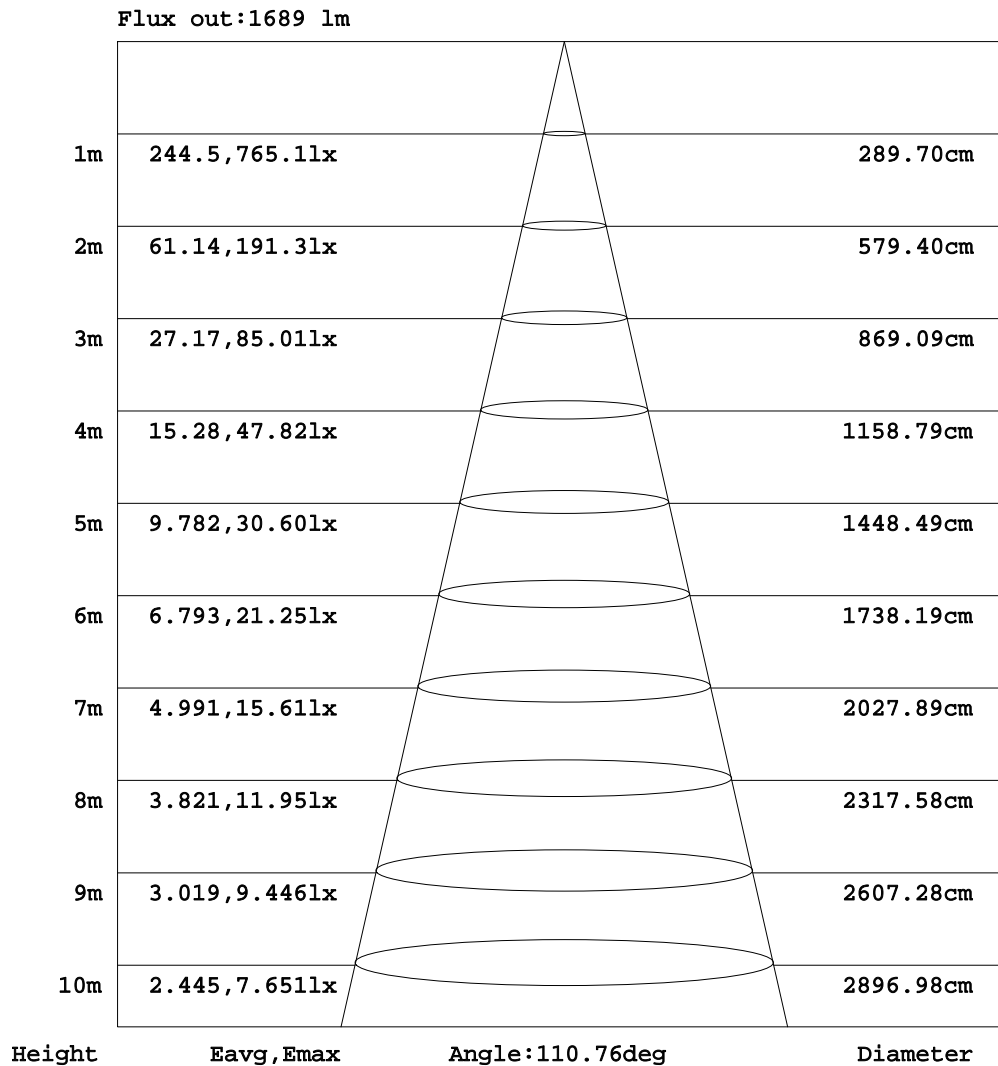


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Operators:Hill
 Test Date:2022-05-21

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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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



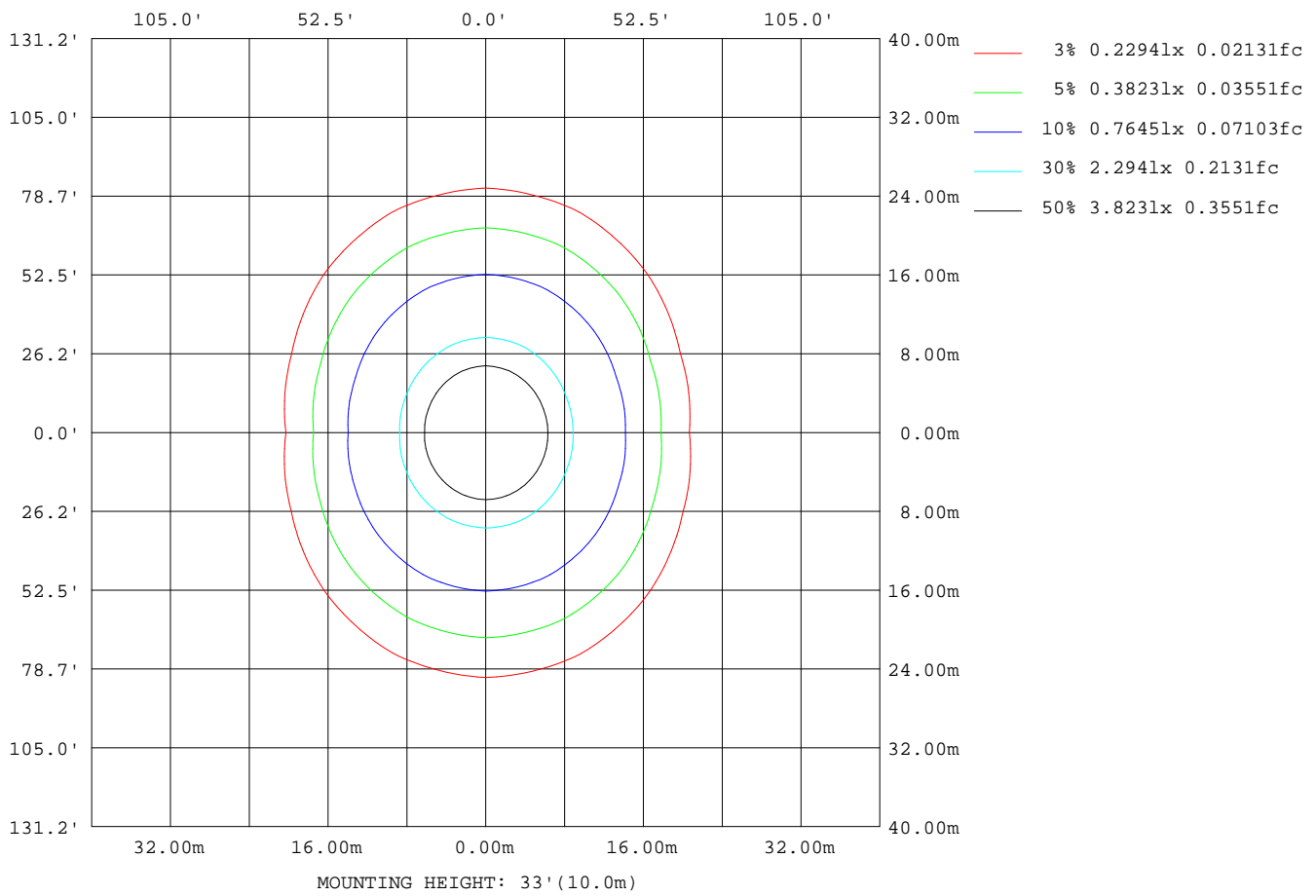
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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:25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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

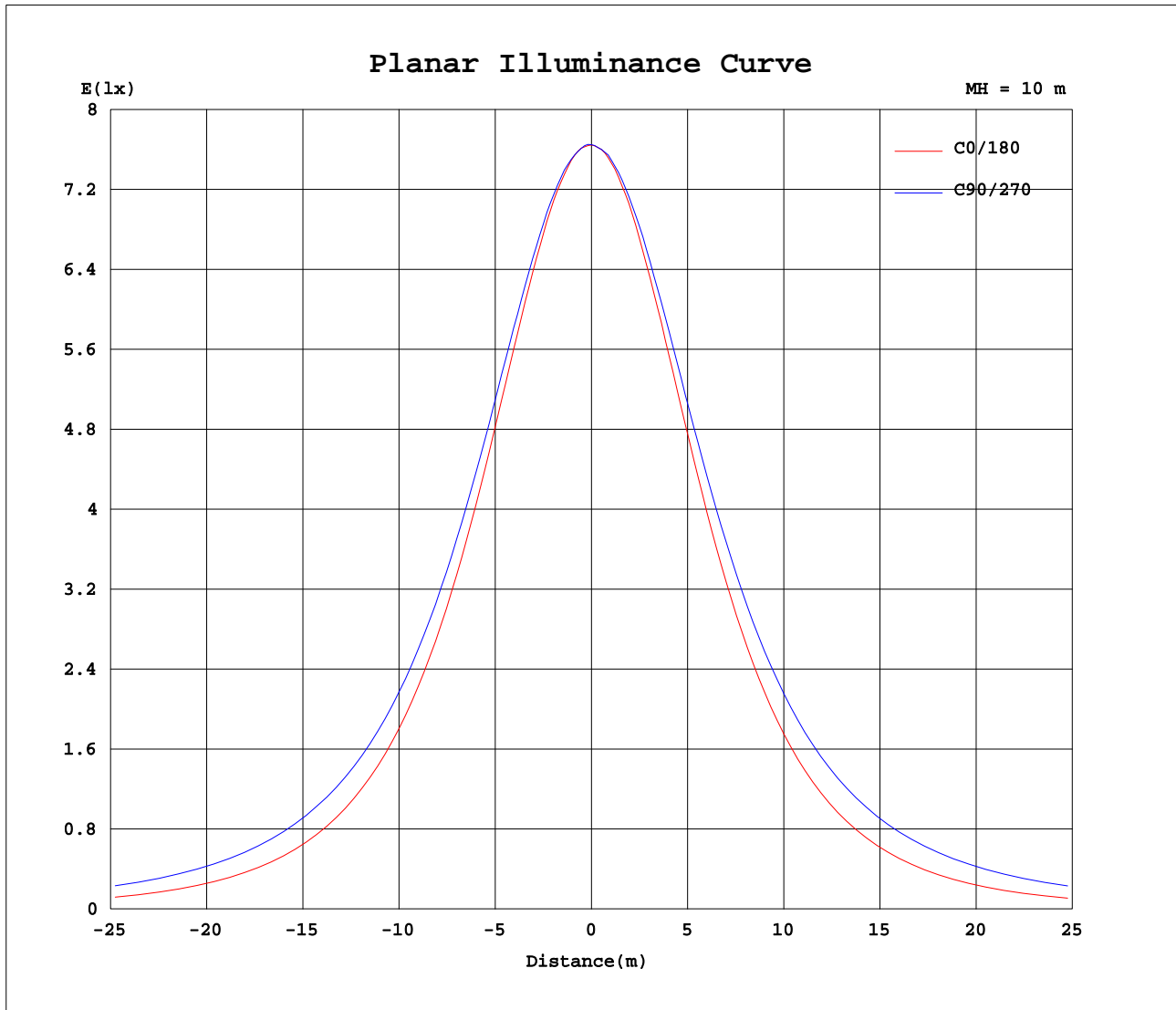
AvgL	cd/m2
L_0~180(65)av	54508
L_0~180(75)av	42541
L_0~180(85)av	18216
L_90~270(65)av	98526
L_90~270(75)av	133311
L_90~270(85)av	316539
L_45(65)av	80229
L_45(75)av	99855
L_45(85)av	215543

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.0DEG
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: 25.0DEG
 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:119.97V I:0.2651A P:30W PF:0.9181 Freq:60.00Hz Lamp Flux:2640x1 lm		
NAME: ASD-LVF21-36D30CC-NK/BK 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	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765			
5	763	763	761	764	763	764	762	762	760	760	761	761	763	762	762	762			
10	753	754	756	758	758	756	755	751	749	749	751	754	755	755	753	752			
15	736	739	742	747	749	747	741	736	730	733	736	743	746	744	740	735			
20	714	717	726	733	735	731	722	714	707	709	718	727	731	727	721	712			
25	685	689	702	714	719	712	698	685	675	681	692	708	714	709	696	684			
30	650	658	676	693	697	688	669	651	639	646	664	684	692	685	668	650			
35	609	619	643	665	674	661	635	612	596	606	631	657	668	659	634	611			
40	563	577	608	636	645	629	599	568	548	563	595	627	639	628	598	567			
45	511	529	567	603	614	596	558	520	496	514	554	593	610	595	558	519			
50	456	478	525	566	580	559	514	467	439	462	512	558	576	559	514	467			
55	396	424	480	528	545	520	469	412	378	409	467	520	540	521	470	413			
60	333	368	433	488	505	480	422	355	314	352	422	480	503	481	423	356			
65	266	311	387	447	467	439	375	297	248	296	376	440	463	440	376	298			
70	199	255	341	405	426	397	329	240	180	240	331	399	424	399	330	241			
75	132	201	297	365	387	357	284	187	114	188	287	358	383	357	286	188			
80	70.6	153	256	326	348	318	244	139	55.0	142	246	318	344	317	244	140			
85	21.6	113	218	288	310	281	206	100	13.8	103	208	280	305	279	206	99.1			
90	0.51	83.3	186	260	281	251	175	71.1	0.14	73.3	175	245	269	243	172	68.8			
95	0.41	61.2	153	218	238	212	144	52.8	0.49	53.0	146	212	235	210	142	48.2			
100	1.49	44.3	130	191	210	185	121	38.0	1.80	39.4	120	182	204	181	116	35.0			
105	3.62	34.0	107	163	182	158	100.0	29.7	4.06	30.8	99.2	155	175	153	95.6	27.1			
110	6.10	27.7	88.4	139	156	135	83.0	24.8	6.67	25.5	81.9	131	149	129	78.6	22.5			
115	8.63	23.9	73.3	117	132	114	69.0	22.0	9.29	22.3	68.0	110	125	108	64.9	19.9			
120	11.2	21.8	60.8	97.9	111	95.4	57.3	20.9	11.9	20.4	56.6	91.8	105	90.2	53.9	18.5			
125	13.8	21.1	50.8	81.7	93.1	79.7	48.5	20.7	14.5	19.6	47.5	76.5	87.5	75.0	45.2	18.2			
130	16.2	21.2	43.0	68.0	77.4	66.6	41.5	21.1	16.9	19.4	40.2	63.4	72.5	62.2	38.4	18.4			
135	18.6	21.4	37.1	56.2	64.1	55.2	36.2	21.6	19.1	19.6	34.4	52.4	59.6	51.6	33.3	19.0			
140	20.9	21.9	33.2	46.9	52.6	46.3	33.0	22.3	21.1	19.6	29.9	43.1	49.0	43.2	29.8	19.5			
145	22.9	22.8	30.7	40.0	43.9	39.7	30.7	23.2	23.0	19.7	26.7	35.5	40.2	36.6	27.8	20.4			
150	24.7	24.6	28.9	35.4	37.8	35.1	28.9	25.1	24.6	21.5	24.4	30.3	33.7	32.0	26.5	21.8			
155	24.9	25.8	27.6	31.7	33.5	31.7	27.5	25.7	24.3	22.3	22.9	26.6	29.1	28.7	25.6	23.2			
160	23.5	26.0	27.3	29.1	30.1	29.3	26.9	24.8	22.8	22.7	21.2	24.2	26.0	26.2	24.5	24.6			
165	21.8	26.0	28.4	28.3	28.2	28.2	25.0	22.7	21.1	21.0	19.6	23.0	24.8	24.9	25.1	25.4			
170	19.3	25.1	27.2	28.8	28.7	26.9	23.0	20.7	19.1	19.0	19.8	19.5	24.0	26.0	25.2	23.6			
175	21.8	23.0	25.9	26.1	24.1	21.6	22.1	22.3	21.8	21.8	21.6	20.4	18.7	21.6	22.9	22.6			
180	23.8	23.2	23.4	17.8	13.0	20.1	21.5	23.0	23.5	23.4	22.9	22.4	17.7	16.4	19.3	21.8			

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