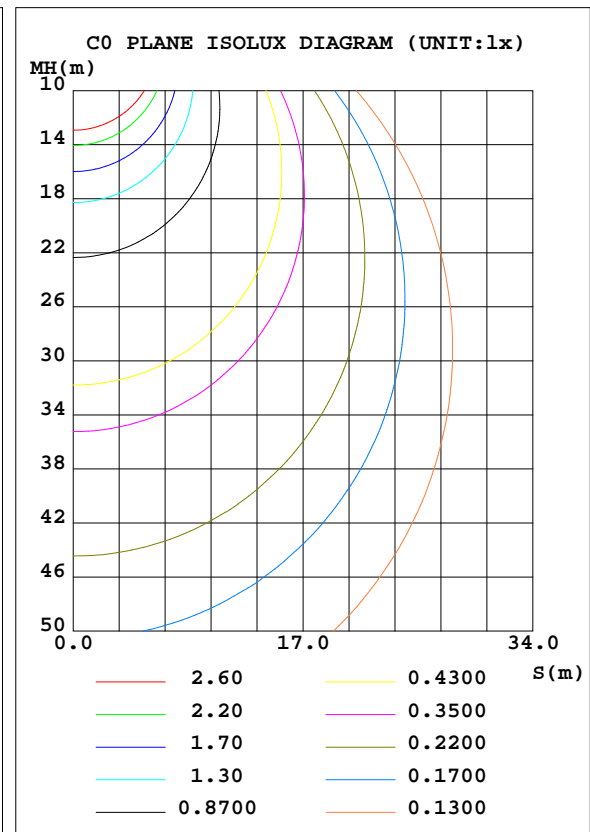
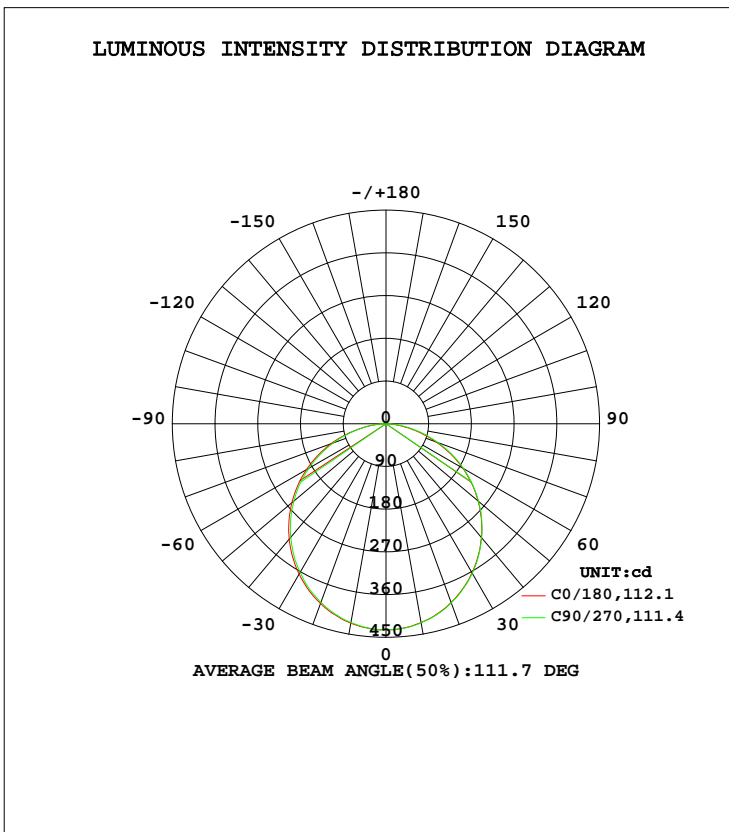


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME:ASD-MPS-9D18CC-WH 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: 68.36 lm/W			
MODEL ASD-MPS-9D18CC-WH 5000		Imax(cd)	434.5	S/MH(C0/180)	1.24
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1229.1	$\eta$ UP, DN(C0-180)	0.1,50.1
NOMINAL FLUX(lm)	1229.06	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	$\eta$ up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	$\eta$ down(%)	99.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

Carl Deng

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

Reviewed by : Mery He

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	426.8	425.8	425.3	426.1	425.4	426.1	426.0	426.1	0- 10	41.06	41.06	3.34,3.34
20	402.9	401.5	400.5	401.7	401.0	401.5	401.9	401.8	10- 20	117.3	158.4	12.9,12.9
30	366.1	363.1	362.0	363.4	362.7	363.1	363.6	363.6	20- 30	177.0	335.4	27.3,27.3
40	317.3	313.5	312.3	313.5	312.7	313.1	313.6	313.8	30- 40	212.6	547.9	44.6,44.6
50	259.1	254.9	253.5	254.2	253.6	253.6	254.7	254.7	40- 50	220.0	767.9	62.5,62.5
60	193.4	189.3	187.9	188.2	186.7	187.1	188.4	188.6	50- 60	198.8	966.7	78.7,78.7
70	123.1	119.4	117.8	117.5	112.6	115.1	116.9	117.4	60- 70	151.7	1118	91,91
80	51.65	50.73	49.85	47.38	42.80	45.30	48.98	48.46	70- 80	86.59	1205	98,98
90	0.4770	0.1953	2.613	0.1346	0.0246	0.0254	0.0250	0.0437	80- 90	22.66	1228	99.9,99.9
100	0.1131	0.1261	0.1197	0.1286	0.0492	0.0539	0.0476	0.0550	90-100	0.0960	1228	99.9,99.9
110	0.1359	0.1418	0.1407	0.1450	0.0816	0.0816	0.0778	0.0812	100-110	0.1042	1228	99.9,99.9
120	0.1776	0.1795	0.1771	0.1815	0.1263	0.1150	0.1122	0.1144	110-120	0.1263	1228	99.9,99.9
130	0.2550	0.2585	0.2609	0.2609	0.1742	0.1595	0.1540	0.1602	120-130	0.1584	1228	99.9,99.9
140	0.3972	0.4231	0.4228	0.4152	0.2260	0.2174	0.2108	0.2185	130-140	0.1996	1228	99.9,99.9
150	0.5717	0.6398	0.6430	0.6254	0.2705	0.2748	0.2715	0.2772	140-150	0.2405	1229	100,100
160	0.7335	0.7600	0.7618	0.7722	0.3587	0.3584	0.3389	0.3428	150-160	0.2334	1229	100,100
170	0.6873	0.6890	0.6954	0.7043	0.4237	0.4020	0.3858	0.3941	160-170	0.1588	1229	100,100
180	0.5907	0.5528	0.5298	0.5684	0.5912	0.5685	0.5317	0.5489	170-180	0.0525	1229	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 658.83 lm

%lum = 53.6%

%lamp = 53.6%

Conical surface Flux(120deg): 966.7 lm

%lum = 78.7%

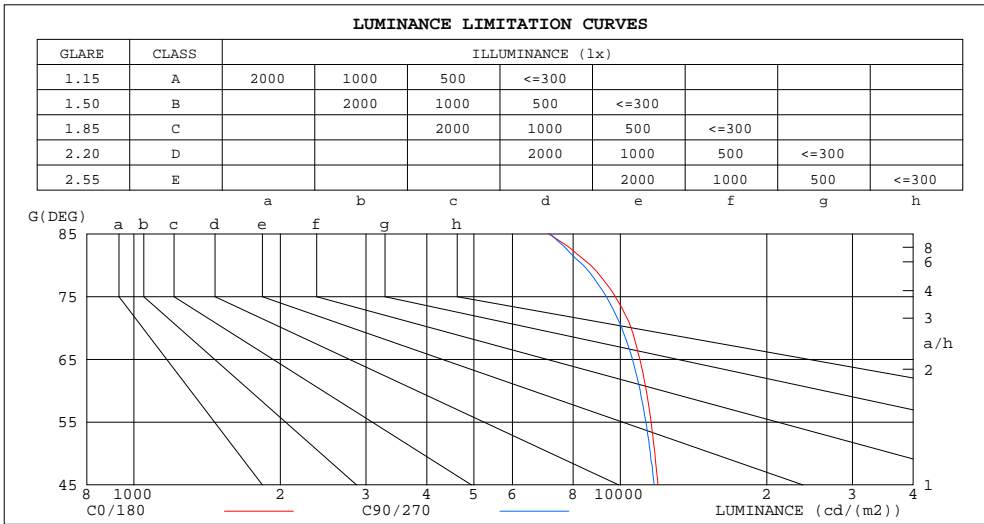
%lamp = 78.7%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME: ASD-MPS-9D18CC-WH 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	7120	7175
80	8690	8393
75	9759	9353
70	10520	10066
65	10967	10595
60	11304	10984
55	11564	11292
50	11779	11529
45	11948	11737

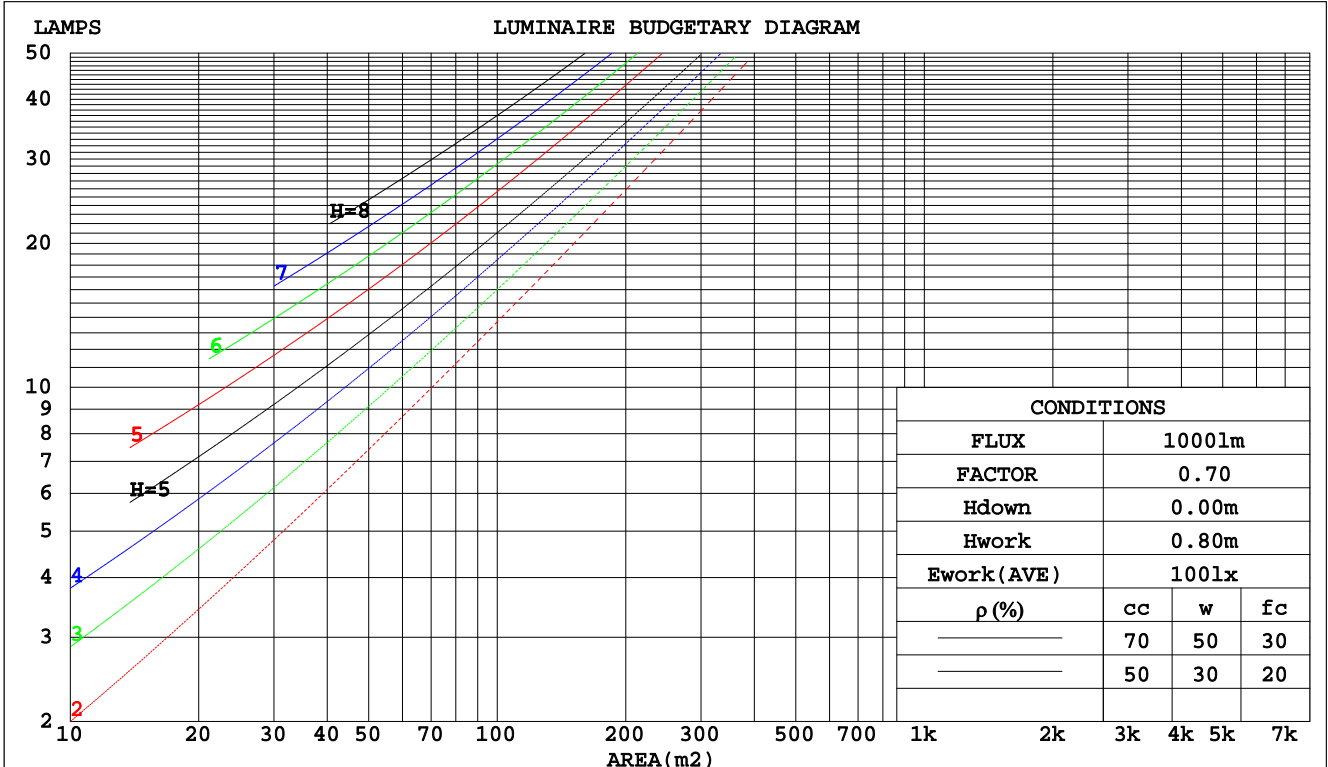
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME: ASD-MPS-9D18CC-WH 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
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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.41	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME: ASD-MPS-9D18CC-WH 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	.310	.176	.056	.302	.173	.055	.289	.166	.053	.277	.160	.051	.266	.154	.050	
2.0	.292	.160	.049	.285	.157	.048	.274	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.270	.144	.043	.264	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.235	.125	.037	.226	.122	.037	.218	.119	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.214	.107	.031	.210	.106	.030	.202	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.021	

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	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.181	.157	.135	.155	.135	.116	.106	.093	.080	.061	.054	.047	.020	.017	.015	
2.0	.173	.133	.099	.148	.114	.085	.102	.079	.060	.059	.046	.035	.019	.015	.011	
3.0	.165	.115	.075	.142	.099	.065	.097	.069	.046	.056	.040	.027	.018	.013	.009	
4.0	.158	.102	.059	.135	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.048	.129	.079	.042	.089	.055	.030	.052	.032	.018	.017	.011	.006	
6.0	.143	.083	.040	.123	.072	.035	.085	.050	.025	.049	.030	.015	.016	.010	.005	
7.0	.136	.076	.034	.117	.066	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
8.0	.130	.070	.030	.112	.061	.026	.077	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.124	.065	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm										
NAME: ASD-MPS-9D18CC-WH 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	21.4	22.9	21.7	23.1	23.3	21.3	22.8	21.6	23.0	23.2
3H	23.0	24.4	23.3	24.6	24.9	22.8	24.2	23.1	24.5	24.7
4H	23.6	24.9	23.9	25.2	25.5	23.4	24.8	23.7	25.0	25.3
6H	24.1	25.3	24.4	25.6	25.9	23.9	25.1	24.2	25.4	25.7
8H	24.2	25.4	24.5	25.7	26.0	24.0	25.2	24.4	25.5	25.8
12H	24.3	25.4	24.6	25.7	26.0	24.1	25.3	24.4	25.6	25.9
4H 2H	22.0	23.3	22.3	23.6	23.9	21.9	23.3	22.2	23.5	23.8
3H	23.8	24.9	24.1	25.2	25.5	23.6	24.8	24.0	25.1	25.4
4H	24.5	25.6	24.9	25.9	26.3	24.4	25.4	24.7	25.8	26.1
6H	25.1	26.0	25.5	26.4	26.8	24.9	25.9	25.3	26.2	26.6
8H	25.3	26.2	25.7	26.5	26.9	25.1	26.0	25.5	26.4	26.8
12H	25.4	26.2	25.8	26.6	27.0	25.3	26.1	25.7	26.5	26.9
8H 4H	24.8	25.7	25.2	26.0	26.4	24.7	25.5	25.1	25.9	26.3
6H	25.5	26.2	25.9	26.6	27.1	25.4	26.1	25.8	26.5	26.9
8H	25.8	26.4	26.2	26.8	27.3	25.6	26.3	26.1	26.7	27.2
12H	26.0	26.5	26.4	27.0	27.4	25.8	26.4	26.3	26.9	27.3
12H 4H	24.8	25.6	25.2	26.0	26.4	24.7	25.5	25.1	25.9	26.3
6H	25.6	26.2	26.0	26.6	27.1	25.4	26.1	25.9	26.5	27.0
8H	25.9	26.4	26.3	26.9	27.4	25.7	26.3	26.2	26.8	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1229 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME: ASD-MPS-9D18CC-WH 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

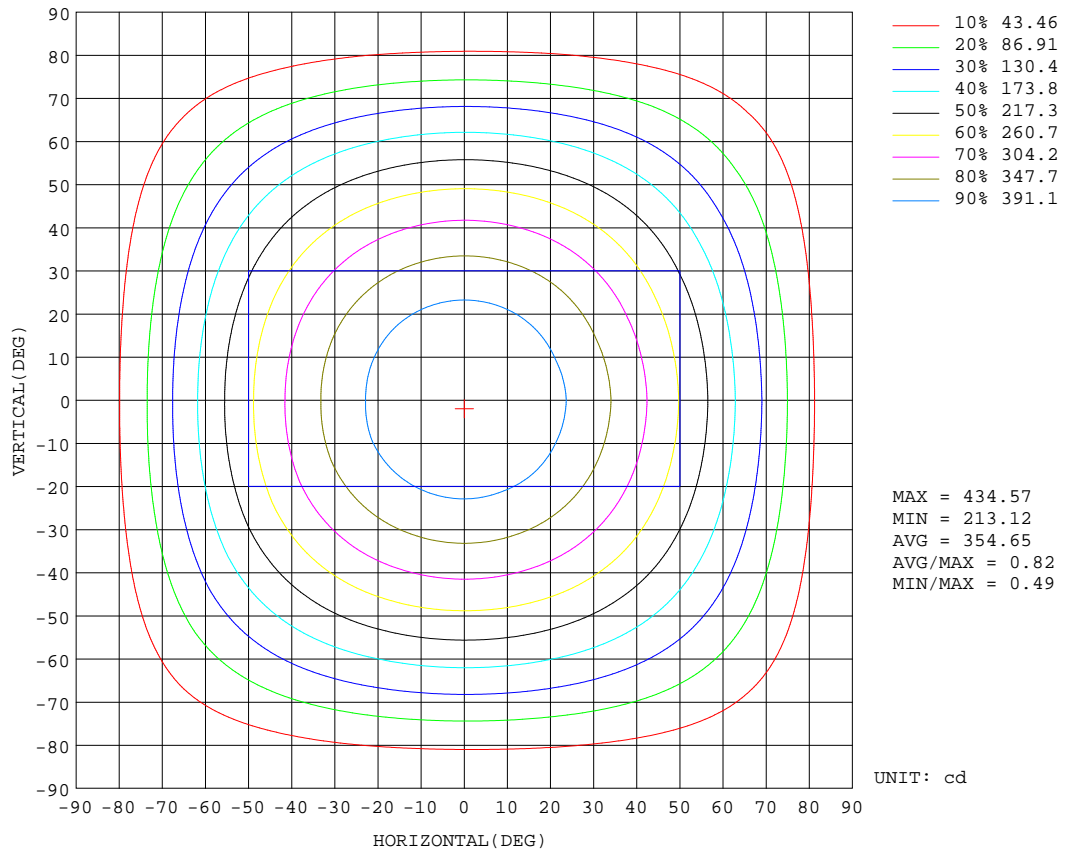
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	46	39	57	46	39	56	45	39	32
0.80	68	56	49	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	50
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME: ASD-MPS-9D18CC-WH 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



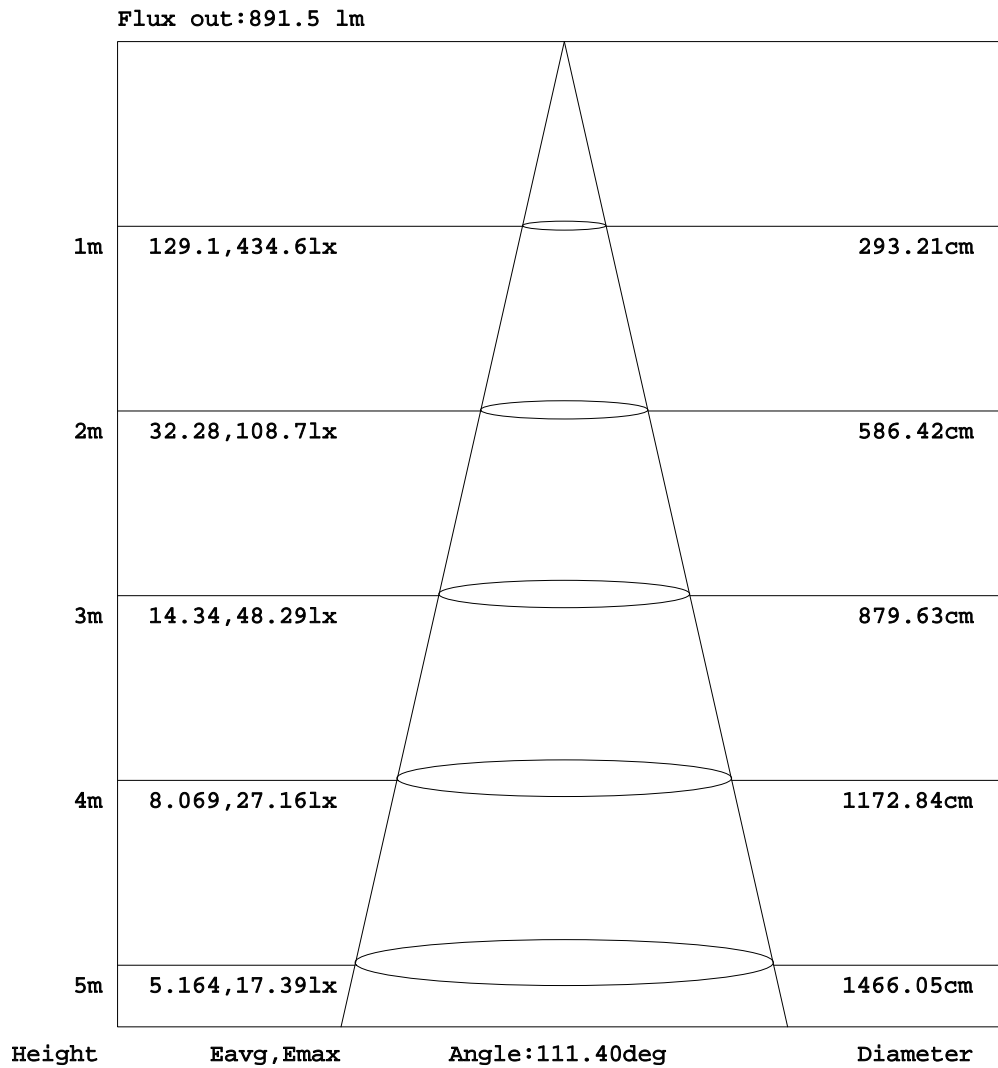
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME: ASD-MPS-9D18CC-WH 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



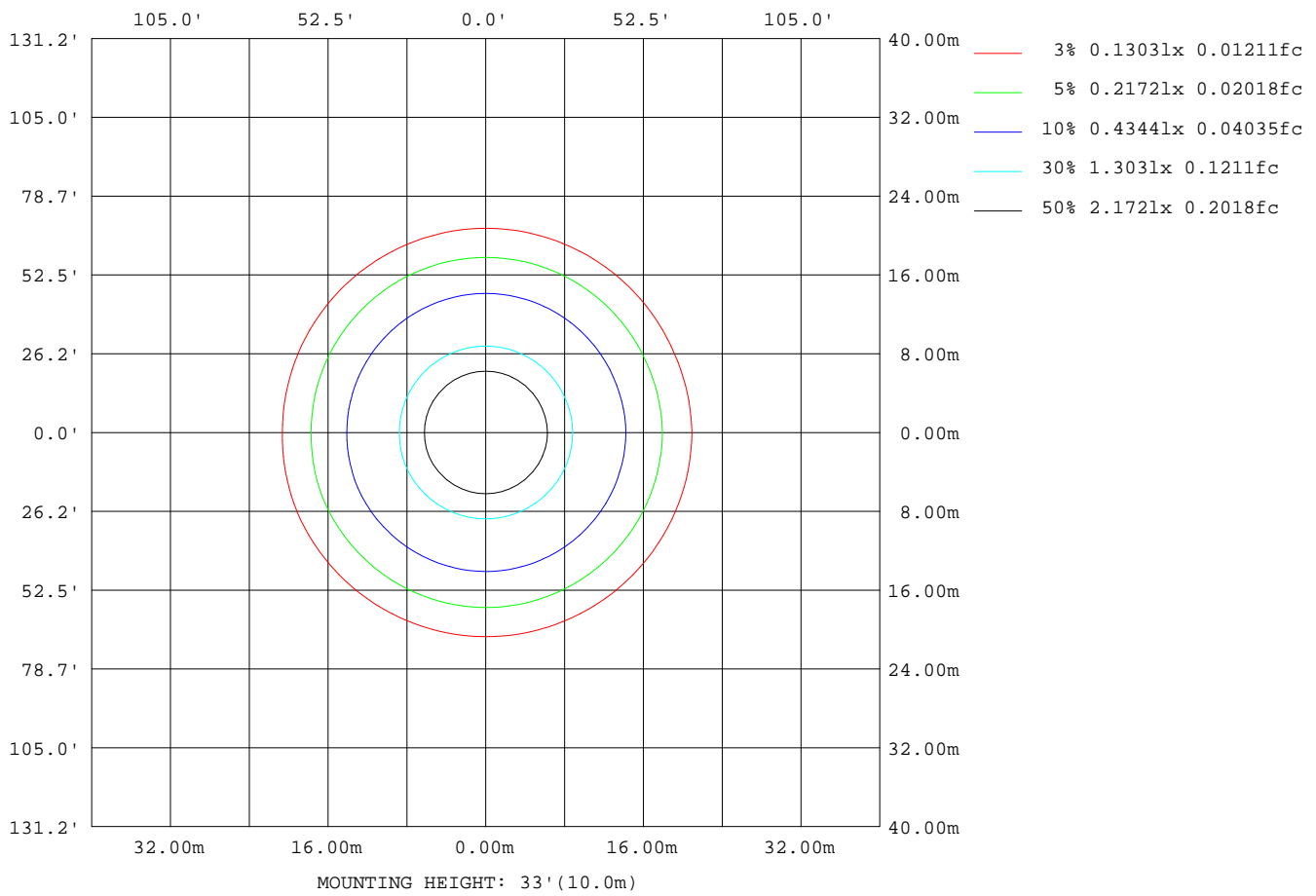
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME:ASD-MPS-9D18CC-WH 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:25.8DEG  
 Operators:Carl  
 Test Date:2022-05-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:34%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME: ASD-MPS-9D18CC-WH 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

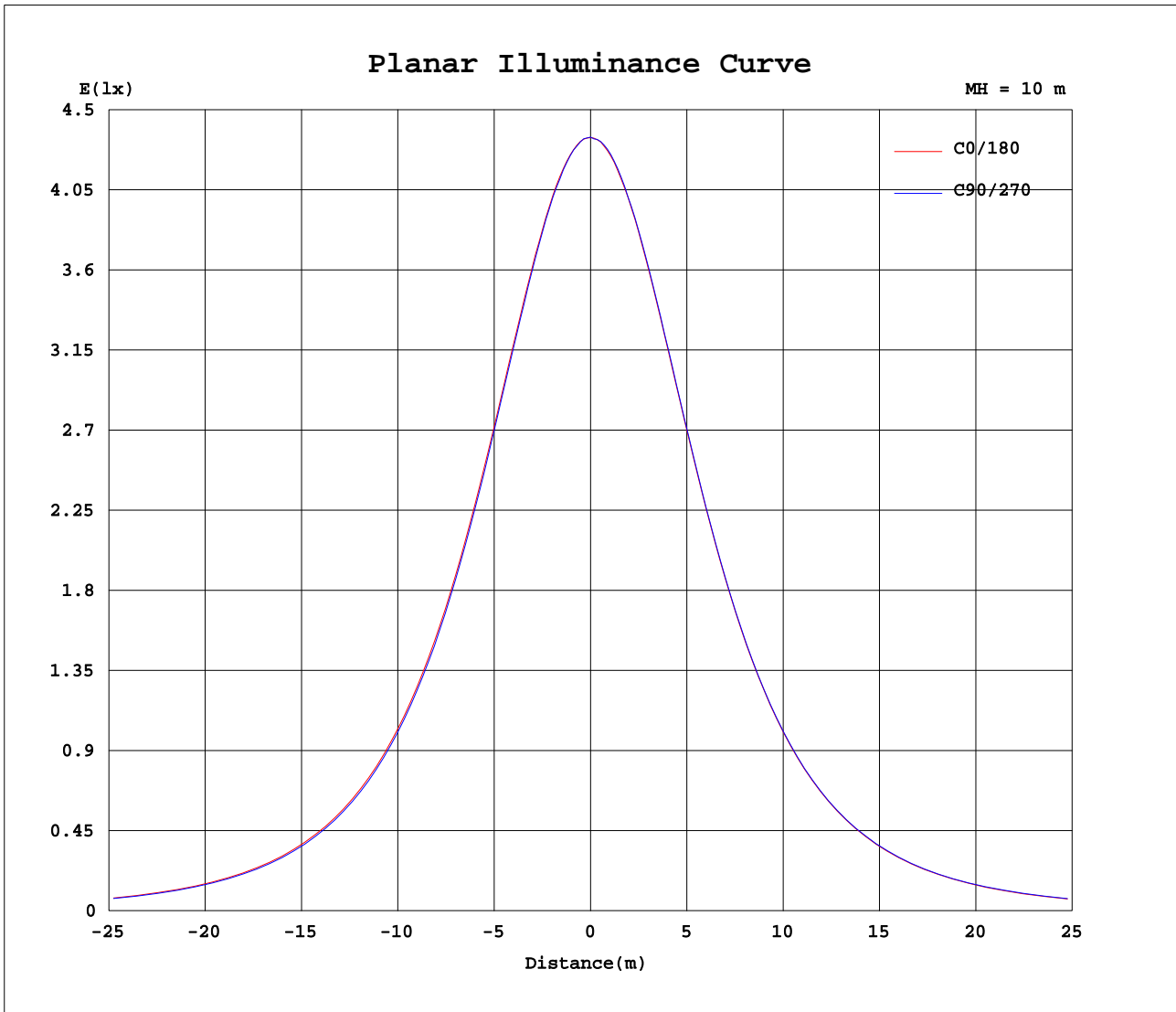
AvgL	cd/m2
L_0~180(65)av	10687
L_0~180(75)av	9189
L_0~180(85)av	6098
L_90~270(65)av	10602
L_90~270(75)av	9298
L_90~270(85)av	7083
L_45(65)av	10608
L_45(75)av	9235
L_45(85)av	6372

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.8DEG  
Operators:Carl  
Test Date:2022-05-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:34%  
Test Distance:2.526m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.8DEG  
Operators: Carl  
Test Date: 2022-05-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity: 34%  
Test Distance: 2.526m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1594A P:17.98W PF:0.9397 Lamp Flux:1229.06x1 lm		
NAME:ASD-MPS-9D18CC-WH 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	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434			
5	433	432	432	432	432	432	432	432	432	432	432	433	433	432	433	432			
10	427	426	426	426	425	426	426	426	425	426	426	426	426	426	426	426			
15	417	417	416	415	415	415	416	416	415	416	416	416	416	416	416	415			
20	403	402	402	401	401	401	402	402	401	402	402	402	402	402	402	402			
25	386	385	384	383	383	383	384	385	383	384	384	384	384	384	384	384			
30	366	365	363	362	362	362	363	364	363	363	363	363	364	364	364	364			
35	343	341	339	339	338	339	340	341	339	340	340	340	340	340	340	340			
40	317	315	314	313	312	312	313	315	313	313	313	313	314	314	314	314			
45	289	287	285	284	284	284	285	286	284	285	284	284	285	285	285	285			
50	259	257	255	254	253	253	254	256	254	254	254	254	255	255	255	255			
55	227	225	223	222	222	221	222	224	221	222	221	222	222	222	222	223			
60	193	191	189	188	188	187	188	190	187	187	187	188	188	189	189	189			
65	159	157	155	153	153	152	153	154	151	152	152	153	154	154	154	154			
70	123	121	119	118	118	117	117	117	113	113	115	116	117	117	117	118			
75	86.4	85.4	84.4	83.3	82.8	82.3	81.2	80.8	76.3	77.2	79.1	81.0	81.9	82.1	82.5	81.7			
80	51.6	50.8	50.7	50.5	49.9	49.2	47.4	46.4	42.8	43.6	45.3	48.0	49.0	49.4	48.5	47.5			
85	21.2	20.7	20.9	21.8	21.4	20.1	18.5	17.7	15.1	15.9	17.4	19.3	20.9	20.6	19.3	18.7			
90	0.48	0.37	0.20	2.64	2.61	0.13	0.13	0.17	0.02	0.02	0.03	0.02	0.02	0.02	0.04	0.13			
95	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.04	0.03	0.04	0.03	0.03	0.03	0.03	0.03			
100	0.11	0.12	0.13	0.13	0.12	0.13	0.13	0.12	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05			
105	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.13	0.07	0.06	0.07	0.06	0.06	0.06	0.07	0.07			
110	0.14	0.14	0.14	0.15	0.14	0.14	0.14	0.14	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
115	0.15	0.15	0.16	0.16	0.15	0.16	0.16	0.16	0.10	0.10	0.10	0.09	0.10	0.10	0.10	0.10			
120	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.13	0.12	0.11	0.11	0.11	0.11	0.11	0.11			
125	0.21	0.21	0.21	0.22	0.21	0.21	0.21	0.21	0.15	0.14	0.14	0.14	0.13	0.13	0.14	0.14			
130	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.17	0.17	0.16	0.16	0.15	0.16	0.16	0.17			
135	0.31	0.32	0.32	0.32	0.33	0.33	0.32	0.32	0.21	0.20	0.18	0.19	0.19	0.19	0.19	0.20			
140	0.40	0.41	0.42	0.42	0.42	0.42	0.42	0.40	0.23	0.21	0.22	0.21	0.21	0.21	0.22	0.22			
145	0.49	0.52	0.54	0.55	0.54	0.55	0.53	0.50	0.25	0.23	0.25	0.26	0.25	0.25	0.25	0.25			
150	0.57	0.62	0.64	0.65	0.64	0.64	0.63	0.59	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.29			
155	0.67	0.71	0.72	0.72	0.72	0.72	0.71	0.68	0.31	0.30	0.32	0.31	0.31	0.31	0.31	0.34			
160	0.73	0.75	0.76	0.78	0.76	0.78	0.77	0.74	0.36	0.35	0.36	0.34	0.34	0.34	0.34	0.38			
165	0.73	0.74	0.74	0.76	0.76	0.76	0.76	0.74	0.39	0.39	0.38	0.38	0.36	0.36	0.37	0.41			
170	0.69	0.69	0.69	0.69	0.70	0.69	0.70	0.70	0.42	0.42	0.40	0.40	0.39	0.39	0.39	0.43			
175	0.66	0.65	0.65	0.63	0.62	0.64	0.65	0.66	0.49	0.49	0.47	0.45	0.45	0.43	0.45	0.49			
180	0.59	0.57	0.55	0.53	0.53	0.55	0.57	0.58	0.59	0.59	0.57	0.56	0.53	0.54	0.55	0.57			

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