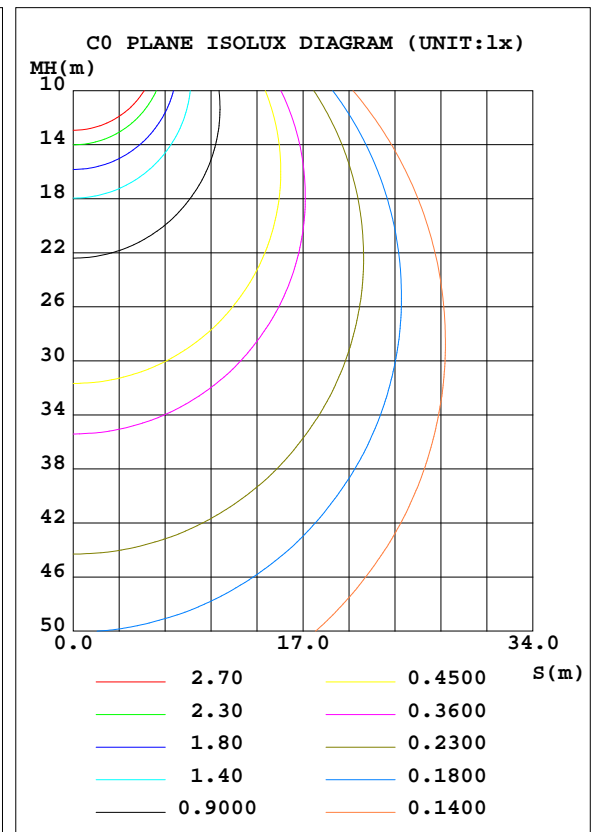
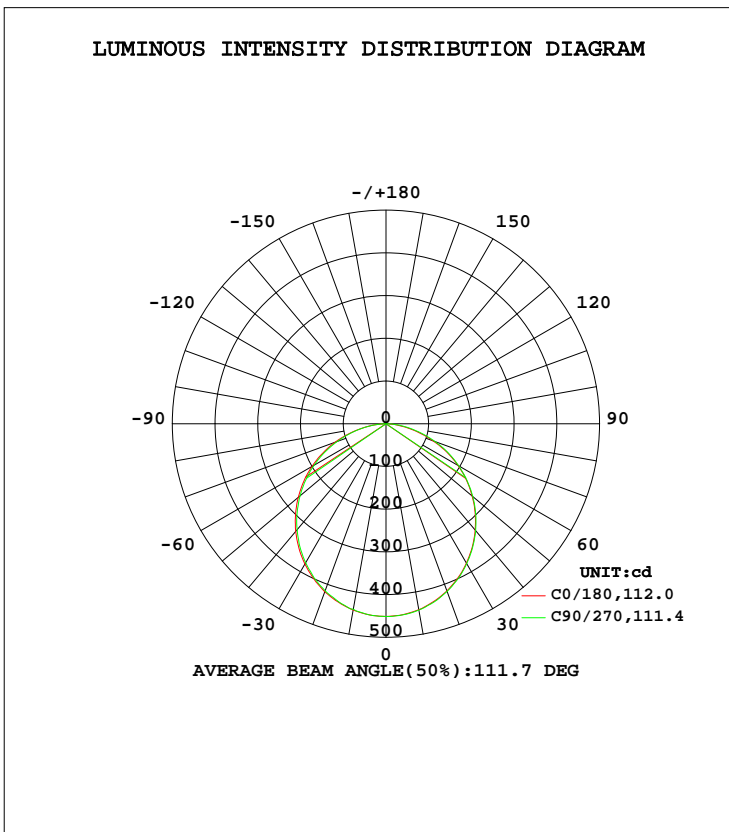


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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: 69.59 lm/W			
MODEL	ASD-MPS-9D18CC-WH 4000K	Imax(cd)	451.5	S/MH(C0/180)	1.24
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1276.3	η UP, DN(C0-180)	0.1,50.0
NOMINAL FLUX(lm)	1276.29	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η 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

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:

Reviewed by : Henry He

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	442.9	442.2	441.1	442.2	441.9	442.8	443.0	442.3	0- 10	42.65	42.65	3.34,3.34
20	418.5	416.5	416.4	416.4	416.6	417.5	417.9	417.0	10- 20	121.8	164.5	12.9,12.9
30	379.7	376.9	376.0	376.5	376.7	377.5	378.1	377.4	20- 30	183.8	348.3	27.3,27.3
40	328.9	325.4	323.9	324.8	325.0	325.5	326.4	325.9	30- 40	220.8	569.1	44.6,44.6
50	268.4	264.3	262.8	263.4	263.5	264.0	265.1	264.5	40- 50	228.4	797.5	62.5,62.5
60	200.1	195.9	194.5	194.7	194.2	195.0	196.5	196.2	50- 60	206.4	1004	78.7,78.7
70	127.2	123.2	121.6	121.2	117.3	120.2	122.2	122.3	60- 70	157.6	1161	91,91
80	53.06	51.85	51.17	48.61	44.98	47.73	51.47	50.88	70- 80	89.90	1251	98,98
90	0.4388	0.1453	2.576	0.1207	0.0246	0.0262	0.0256	0.0700	80- 90	23.53	1275	99.9,99.9
100	0.1152	0.1272	0.1229	0.1295	0.0506	0.0542	0.0483	0.0549	90-100	0.0963	1275	99.9,99.9
110	0.1386	0.1440	0.1456	0.1461	0.0834	0.0834	0.0796	0.0813	100-110	0.1063	1275	99.9,99.9
120	0.1834	0.1840	0.1842	0.1861	0.1304	0.1182	0.1168	0.1158	110-120	0.1298	1275	99.9,99.9
130	0.2657	0.2690	0.2717	0.2702	0.1793	0.1665	0.1592	0.1651	120-130	0.1640	1275	99.9,99.9
140	0.4145	0.4422	0.4422	0.4331	0.2340	0.2266	0.2182	0.2260	130-140	0.2076	1276	99.9,99.9
150	0.5965	0.6666	0.6705	0.6507	0.2804	0.2857	0.2815	0.2867	140-150	0.2503	1276	100,100
160	0.7624	0.7907	0.7940	0.8022	0.3718	0.3731	0.3518	0.3548	150-160	0.2428	1276	100,100
170	0.7133	0.7157	0.7224	0.7300	0.4401	0.4186	0.4007	0.4090	160-170	0.1650	1276	100,100
180	0.6102	0.5730	0.5509	0.5893	0.6116	0.5911	0.5516	0.5687	170-180	0.0545	1276	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 684.24 lm

%lum = 53.6%

%lamp = 53.6%

Conical surface Flux(120deg): 1003.9 lm

%lum = 78.7%

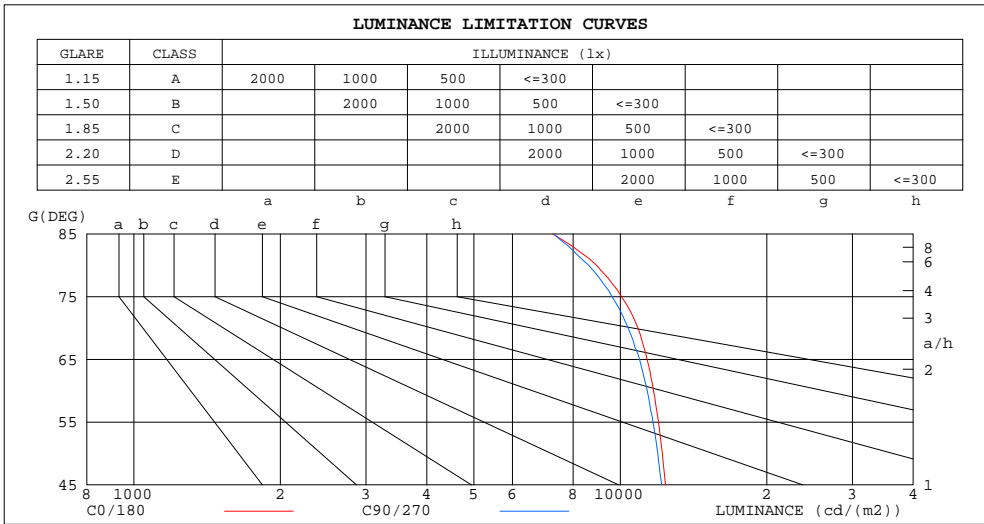
%lamp = 78.7%

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

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:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME:ASD-MPS-9D18CC-WH 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	7250	7299
80	8935	8607
75	10055	9616
70	10873	10383
65	11350	10949
60	11703	11362
55	11977	11677
50	12207	11941
45	12380	12156

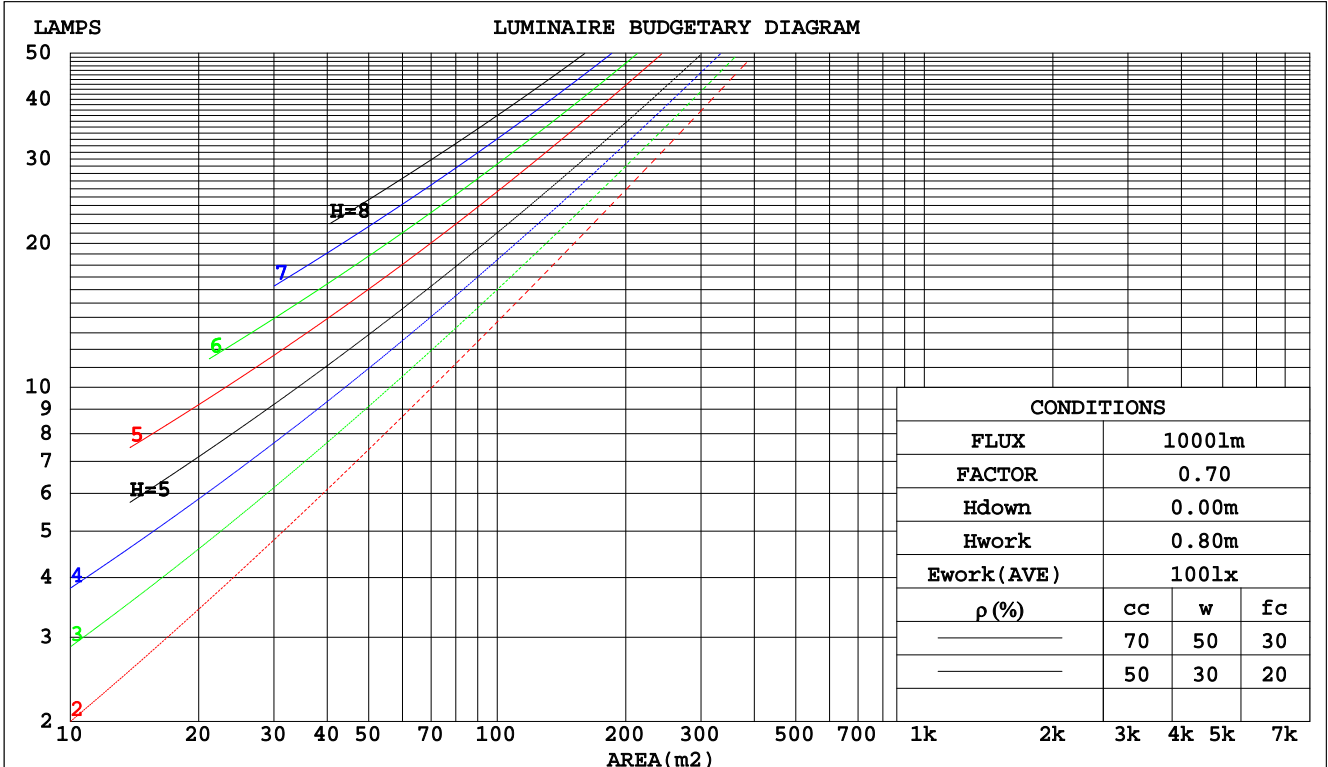
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.8DEG
 Operators:Carl
 Test Date:2022-05-07

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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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	1.19	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	.90	.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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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	.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	.051	.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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm										
NAME: ASD-MPS-9D18CC-WH 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	21.5	23.0	21.8	23.2	23.4	21.4	22.9	21.7	23.1	23.3
3H	23.1	24.5	23.4	24.7	25.0	22.9	24.3	23.2	24.6	24.8
4H	23.7	25.1	24.0	25.3	25.6	23.5	24.9	23.8	25.1	25.4
6H	24.2	25.4	24.5	25.7	26.0	24.0	25.2	24.3	25.5	25.8
8H	24.3	25.5	24.6	25.8	26.1	24.1	25.3	24.4	25.6	25.9
12H	24.4	25.5	24.7	25.8	26.1	24.2	25.3	24.5	25.6	25.9
4H 2H	22.1	23.4	22.4	23.7	24.0	22.0	23.4	22.3	23.6	23.9
3H	23.9	25.0	24.2	25.3	25.6	23.7	24.9	24.1	25.2	25.5
4H	24.6	25.7	25.0	26.0	26.4	24.5	25.5	24.8	25.9	26.2
6H	25.2	26.1	25.6	26.5	26.9	25.0	26.0	25.4	26.3	26.7
8H	25.4	26.3	25.8	26.6	27.0	25.2	26.1	25.6	26.5	26.9
12H	25.5	26.3	25.9	26.7	27.1	25.3	26.1	25.8	26.5	26.9
8H 4H	24.9	25.8	25.3	26.1	26.5	24.7	25.6	25.2	26.0	26.4
6H	25.6	26.3	26.0	26.7	27.2	25.5	26.2	25.9	26.6	27.0
8H	25.9	26.5	26.3	26.9	27.4	25.7	26.4	26.2	26.8	27.3
12H	26.0	26.6	26.5	27.0	27.5	25.9	26.5	26.4	26.9	27.4
12H 4H	24.9	25.7	25.3	26.1	26.5	24.8	25.6	25.2	26.0	26.4
6H	25.6	26.3	26.1	26.7	27.2	25.5	26.2	26.0	26.6	27.0
8H	25.9	26.5	26.4	27.0	27.4	25.8	26.4	26.3	26.8	27.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 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 1276 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.8)

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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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

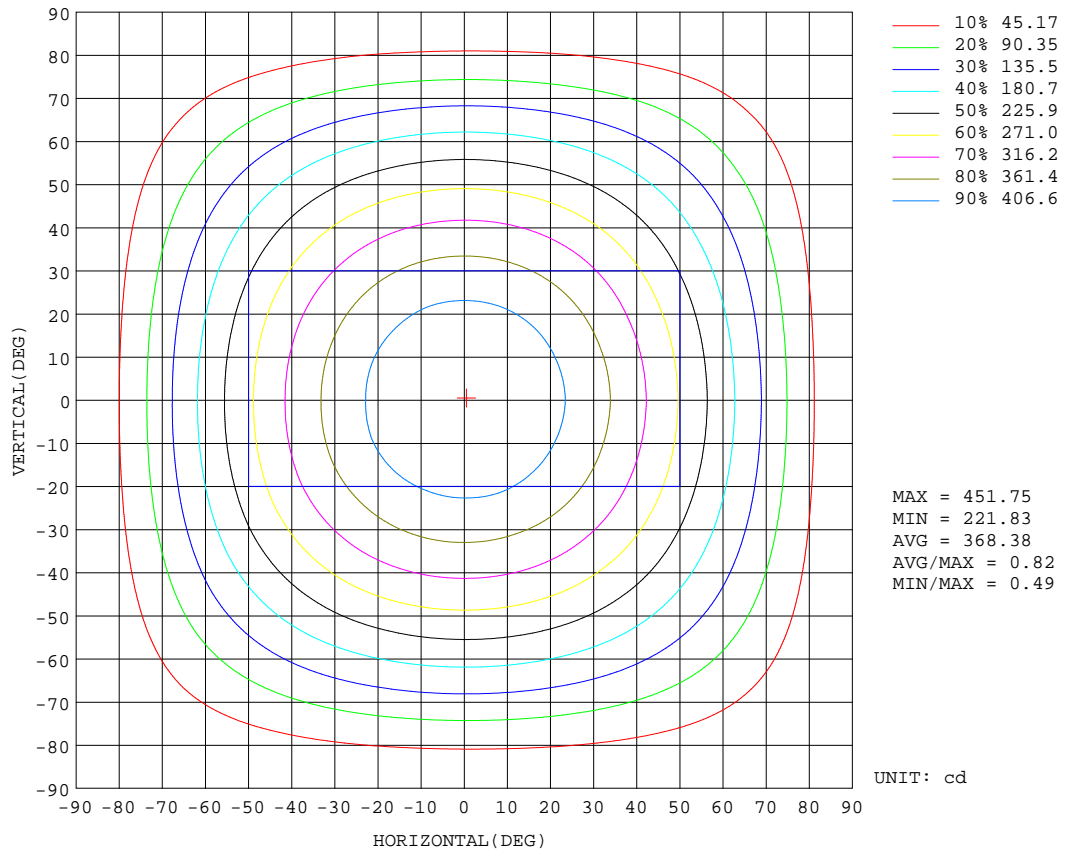
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	55	48	65	55	48	41
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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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

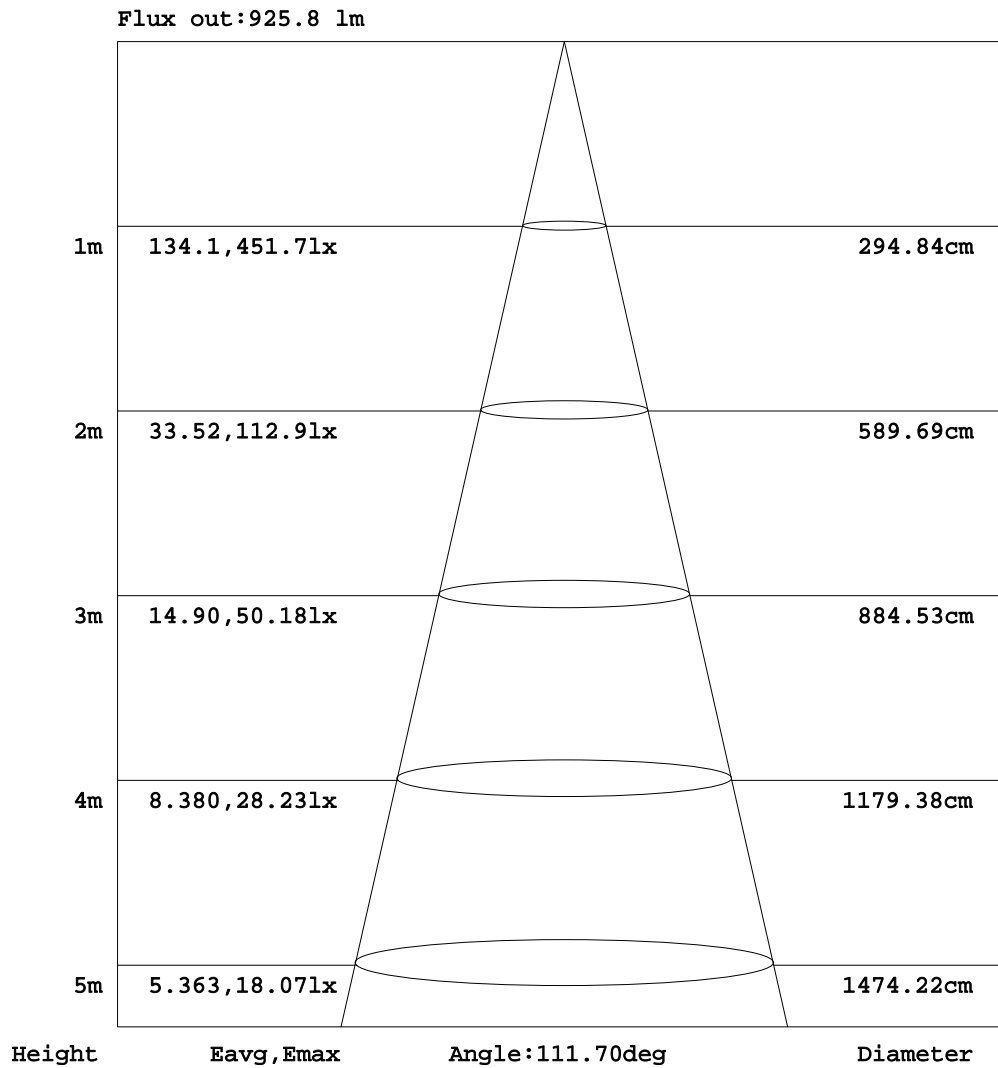


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.8DEG
 Operators:Carl
 Test Date:2022-05-07

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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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



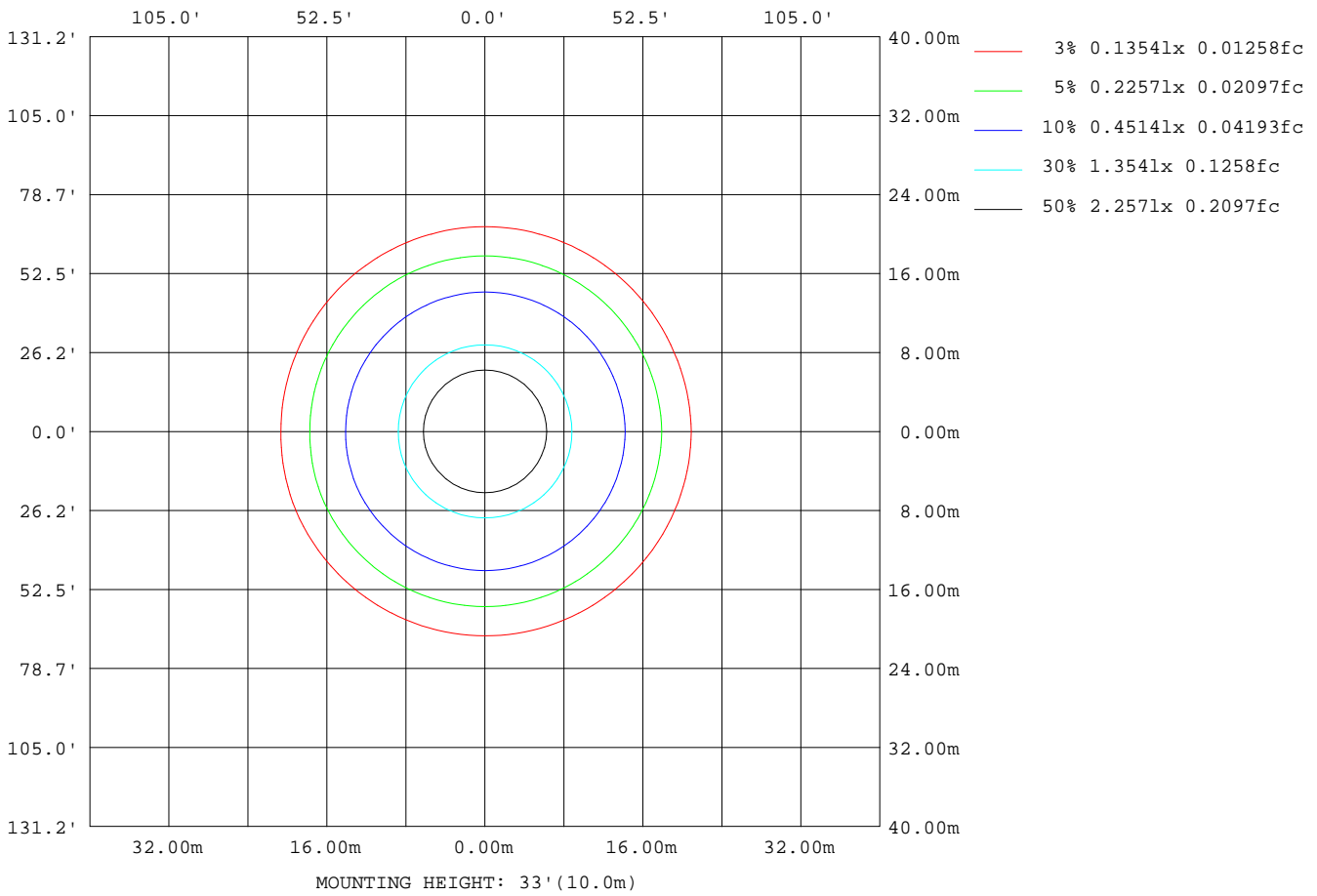
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.8DEG
 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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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:25.8DEG
 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:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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

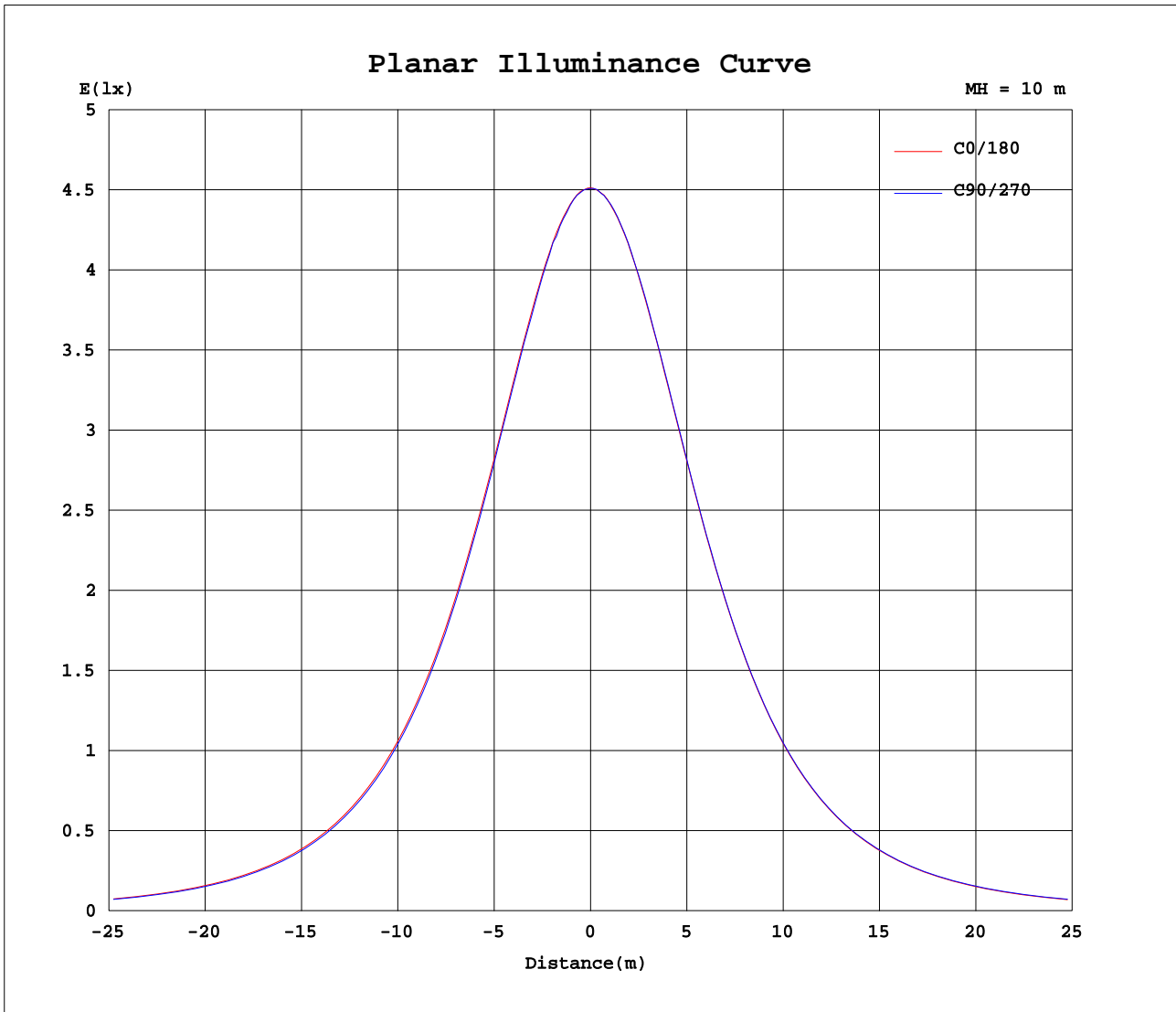
AvgL	cd/m2
L_0~180(65)av	11091
L_0~180(75)av	9530
L_0~180(85)av	6341
L_90~270(65)av	11007
L_90~270(75)av	9649
L_90~270(85)av	7357
L_45(65)av	11006
L_45(75)av	9586
L_45(85)av	6621

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

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:

Planar Illuminance Curve



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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1616A P:18.34W PF:0.9455 Lamp Flux:1276.29x1 lm		
NAME: ASD-MPS-9D18CC-WH 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	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451			
5	449	449	449	449	449	449	449	450	449	449	449	449	449	450	449	449			
10	443	443	442	442	441	442	442	443	442	442	443	443	443	443	442	443			
15	432	432	432	431	431	431	431	432	431	432	432	432	432	432	432	432			
20	419	418	417	416	416	416	416	418	417	417	418	418	418	418	417	418			
25	400	399	398	398	398	398	398	400	398	399	399	400	400	400	399	400			
30	380	378	377	376	376	376	376	378	377	377	378	378	378	378	377	378			
35	356	354	352	351	351	351	352	354	352	353	353	353	354	354	353	354			
40	329	327	325	324	324	325	325	327	325	326	326	326	326	327	326	327			
45	299	298	296	295	294	294	295	297	295	296	296	296	297	297	297	297			
50	268	266	264	263	263	263	263	266	263	264	264	264	265	265	264	266			
55	235	233	231	230	229	229	230	232	230	230	230	231	232	232	231	232			
60	200	198	196	195	195	194	195	196	194	195	195	196	196	196	196	197			
65	164	162	160	159	158	158	158	160	157	158	159	159	160	160	160	161			
70	127	125	123	122	122	121	121	121	117	118	120	121	122	122	122	123			
75	89.0	88.0	87.0	85.9	85.2	84.7	83.6	83.3	79.8	80.7	82.8	84.6	85.7	85.9	86.2	85.6			
80	53.1	52.2	51.8	51.5	51.2	50.5	48.6	48.0	45.0	45.9	47.7	50.5	51.5	51.9	50.9	50.0			
85	21.6	21.1	21.3	22.2	21.8	20.4	18.7	18.0	16.2	16.9	18.6	20.5	22.1	21.9	20.5	19.6			
90	0.44	0.33	0.15	2.59	2.58	0.13	0.12	0.14	0.02	0.03	0.03	0.03	0.03	0.03	0.07	0.17			
95	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04			
100	0.12	0.12	0.13	0.13	0.12	0.13	0.13	0.12	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05			
105	0.13	0.13	0.14	0.14	0.13	0.14	0.14	0.13	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.07			
110	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.14	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
115	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
120	0.18	0.18	0.18	0.19	0.18	0.18	0.19	0.19	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12			
125	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.15			
130	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.18	0.18	0.17	0.16	0.16	0.17	0.17	0.17			
135	0.33	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.21	0.20	0.19	0.19	0.19	0.20	0.20	0.20			
140	0.41	0.43	0.44	0.43	0.44	0.44	0.43	0.42	0.23	0.22	0.23	0.22	0.22	0.22	0.23	0.23			
145	0.51	0.54	0.57	0.57	0.57	0.57	0.55	0.53	0.25	0.24	0.26	0.26	0.26	0.26	0.26	0.26			
150	0.60	0.64	0.67	0.67	0.67	0.67	0.65	0.62	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.30			
155	0.70	0.74	0.75	0.75	0.76	0.75	0.74	0.71	0.32	0.31	0.33	0.33	0.32	0.33	0.33	0.35			
160	0.76	0.78	0.79	0.81	0.79	0.81	0.80	0.77	0.37	0.36	0.37	0.36	0.35	0.35	0.35	0.39			
165	0.76	0.77	0.77	0.79	0.80	0.79	0.79	0.77	0.41	0.40	0.39	0.39	0.37	0.38	0.38	0.42			
170	0.71	0.72	0.72	0.72	0.72	0.72	0.73	0.72	0.44	0.44	0.42	0.41	0.40	0.40	0.41	0.45			
175	0.69	0.68	0.67	0.65	0.64	0.66	0.67	0.68	0.51	0.51	0.49	0.47	0.46	0.45	0.47	0.51			
180	0.61	0.59	0.57	0.55	0.55	0.57	0.59	0.60	0.61	0.61	0.59	0.58	0.55	0.56	0.57	0.59			

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 C Interval: 22.5DEG
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