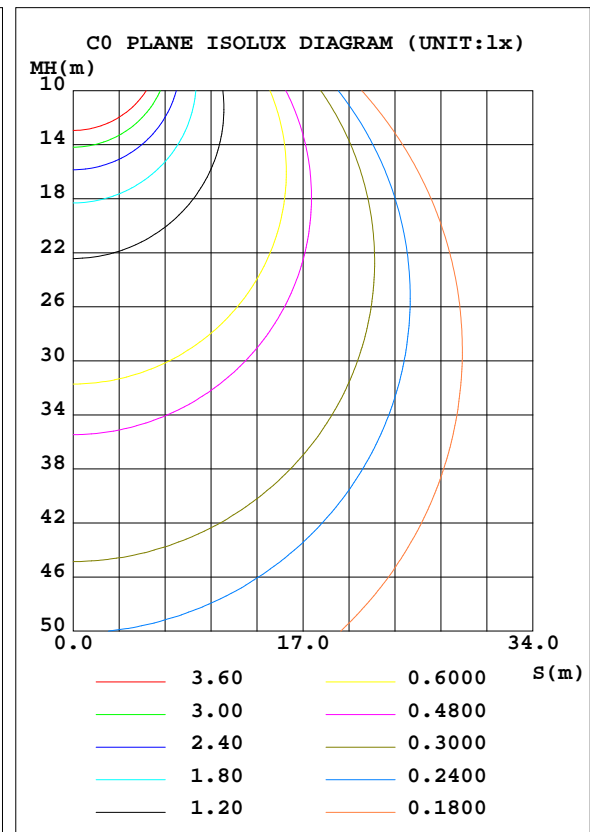
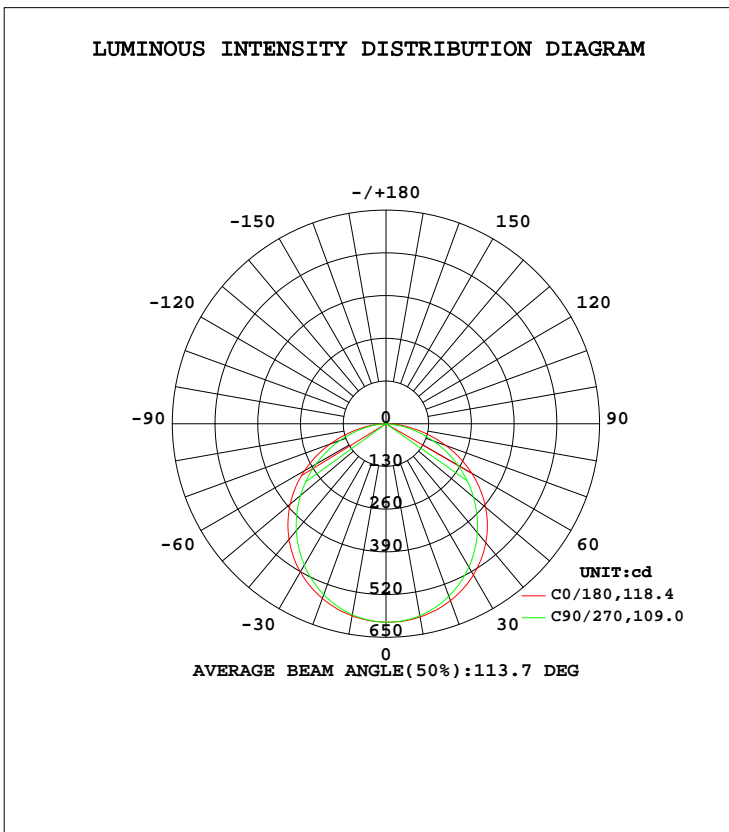


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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: 75.21 lm/W			
MODEL	ASD-UCS-48D24CC	Imax(cd)	604.1	S/MH(C0/180)	1.31
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1744.0	η UP, DN(C0-180)	0.1,50.0
NOMINAL FLUX(lm)	1744.01	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:24.9DEG
 Operators:Water
 Test Date:2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	593.3	591.0	590.0	595.1	597.0	595.5	592.8	591.1	0- 10	57.14	57.14	3.28,3.28
20	565.7	558.6	553.6	566.5	572.9	566.8	558.9	558.2	10- 20	163.8	221.0	12.7,12.7
30	520.9	507.6	497.0	518.6	531.7	518.7	503.8	506.3	20- 30	248.9	469.9	26.9,26.9
40	459.2	439.9	424.5	453.6	472.5	453.2	432.4	437.9	30- 40	301.4	771.3	44.2,44.2
50	380.7	357.7	339.7	372.7	395.8	371.7	347.4	354.7	40- 50	314.2	1086	62.2,62.2
60	286.7	263.5	246.3	279.2	301.6	276.9	253.1	259.2	50- 60	285.2	1371	78.6,78.6
70	180.5	162.4	148.8	177.1	193.9	173.3	154.0	156.7	60- 70	217.5	1588	91.1,91.1
80	75.21	65.36	58.06	77.32	84.40	71.63	58.56	58.58	70- 80	123.8	1712	98.2,98.2
90	0.1721	0.2665	0.3475	3.660	0.3992	0.0402	0.0366	0.0420	80- 90	30.08	1742	99.9,99.9
100	0.1529	0.1446	0.1419	0.1419	0.0633	0.0688	0.0621	0.0661	90-100	0.1599	1742	99.9,99.9
110	0.1790	0.1808	0.1825	0.1788	0.1037	0.1109	0.1002	0.1044	100-110	0.1301	1742	99.9,99.9
120	0.2481	0.2477	0.2497	0.2425	0.1619	0.1612	0.1456	0.1527	110-120	0.1682	1743	99.9,99.9
130	0.3530	0.3606	0.3774	0.3522	0.2303	0.2251	0.2070	0.2187	120-130	0.2177	1743	99.9,99.9
140	0.5337	0.5910	0.6035	0.5414	0.2896	0.2911	0.2892	0.2996	130-140	0.2725	1743	99.9,99.9
150	0.7445	0.8654	0.8975	0.8153	0.3557	0.3585	0.3849	0.3856	140-150	0.3246	1743	100,100
160	0.9389	1.006	1.055	0.9780	0.4897	0.4662	0.4825	0.4942	150-160	0.3127	1744	100,100
170	0.9204	0.9389	0.9495	0.9497	0.6063	0.5637	0.5282	0.5563	160-170	0.2146	1744	100,100
180	0.7984	0.7512	0.7324	0.8047	0.7973	0.7773	0.7239	0.7638	170-180	0.0725	1744	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 929.41 lm

%lum = 53.3%
 %lamp = 53.3%

Conical surface Flux(120deg): 1370.7 lm

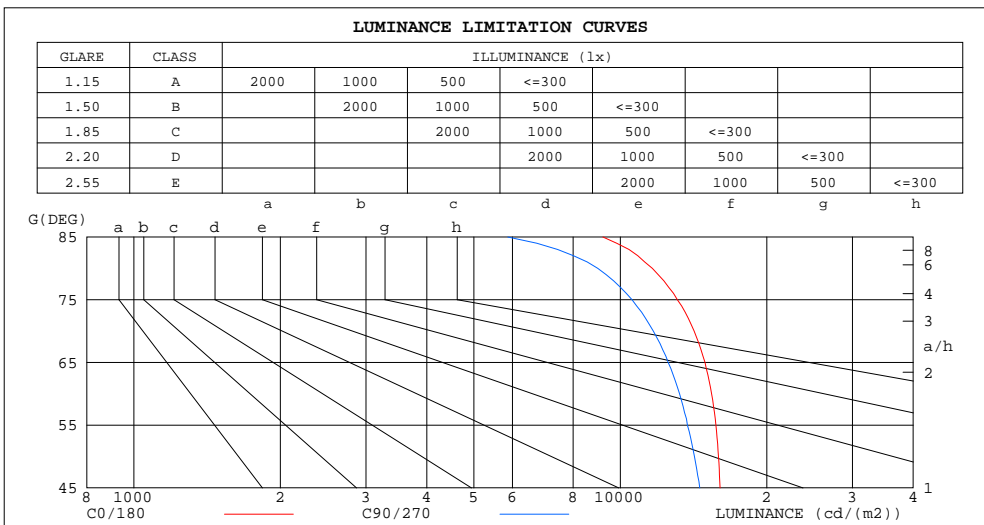
%lum = 78.6%
 %lamp = 78.6%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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	9211	5870
80	11640	8986
75	13096	10568
70	14180	11689
65	14929	12540
60	15406	13236
55	15721	13741
50	15918	14204
45	16029	14562

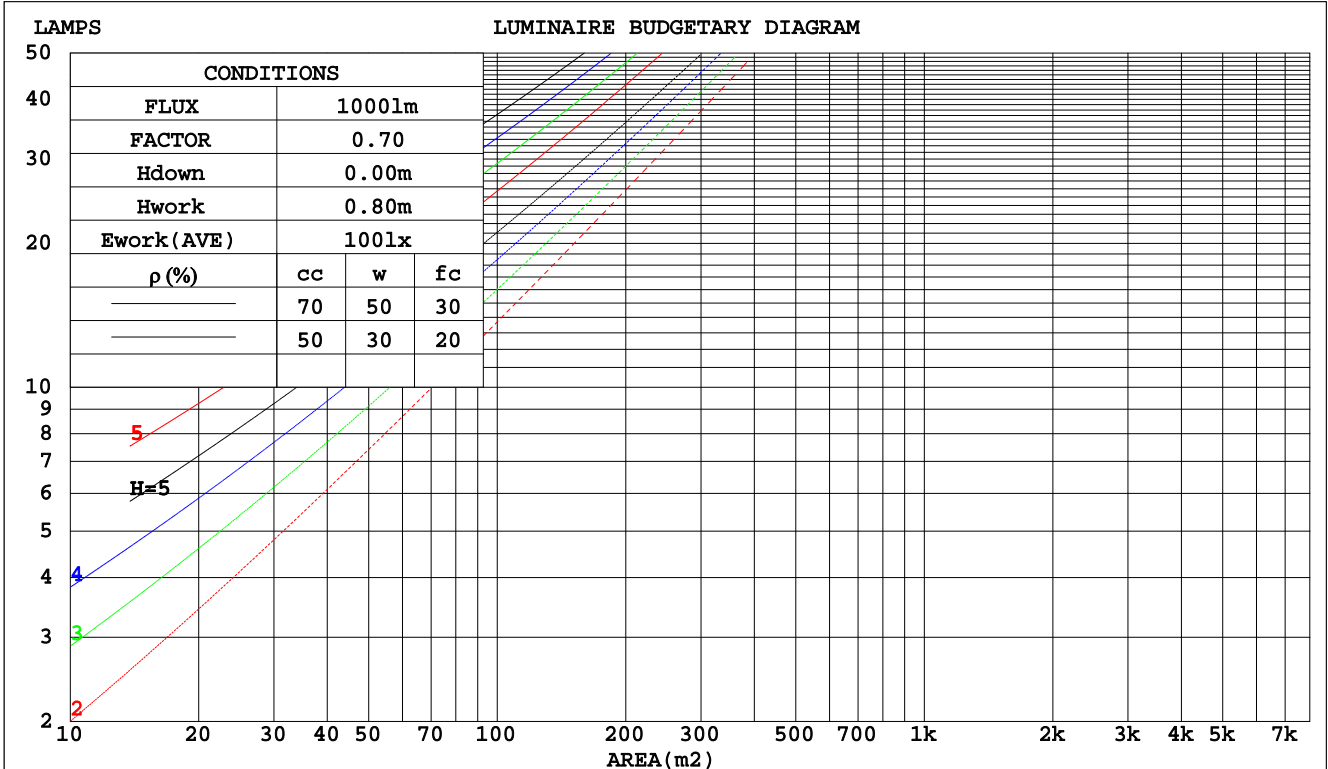
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 50%
 Test Distance: 2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.84	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

WEC AND CCEC

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz		
Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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	.309	.176	.056	.302	.172	.055	.289	.166	.053	.277	.160	.051	.265	.154	.050	
2.0	.292	.160	.049	.286	.157	.048	.274	.152	.047	.263	.148	.046	.253	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.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	.163	.163	.163	.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	.029	.052	.032	.017	.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	.012	.015	.009	.004	
8.0	.130	.070	.029	.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:24.9DEG
 Operators:Water
 Test Date:2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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	20.6	22.1	20.8	22.3	22.5	19.9	21.4	20.2	21.6	21.8
3H	22.1	23.6	22.4	23.8	24.0	21.3	22.7	21.6	23.0	23.2
4H	22.8	24.1	23.1	24.4	24.6	21.8	23.2	22.2	23.4	23.7
6H	23.2	24.5	23.5	24.7	25.0	22.2	23.5	22.5	23.7	24.0
8H	23.3	24.6	23.7	24.8	25.1	22.3	23.5	22.6	23.8	24.1
12H	23.4	24.6	23.8	24.9	25.2	22.3	23.5	22.7	23.8	24.1
4H 2H	21.1	22.4	21.4	22.7	22.9	20.6	21.9	20.9	22.2	22.4
3H	22.9	24.0	23.2	24.3	24.6	22.2	23.3	22.5	23.6	23.9
4H	23.6	24.7	24.0	25.0	25.3	22.8	23.9	23.2	24.2	24.5
6H	24.2	25.1	24.6	25.5	25.9	23.3	24.2	23.7	24.6	24.9
8H	24.4	25.3	24.8	25.6	26.0	23.4	24.3	23.8	24.7	25.0
12H	24.5	25.3	24.9	25.7	26.1	23.5	24.3	23.9	24.7	25.1
8H 4H	23.8	24.7	24.2	25.1	25.5	23.1	24.0	23.5	24.4	24.7
6H	24.5	25.3	25.0	25.7	26.1	23.7	24.4	24.1	24.8	25.3
8H	24.8	25.5	25.3	25.9	26.3	23.9	24.6	24.4	25.0	25.4
12H	25.0	25.5	25.5	26.0	26.5	24.0	24.6	24.5	25.0	25.5
12H 4H	23.8	24.6	24.2	25.0	25.4	23.1	23.9	23.6	24.3	24.7
6H	24.6	25.2	25.0	25.6	26.1	23.8	24.4	24.2	24.8	25.3
8H	24.9	25.4	25.3	25.9	26.4	24.0	24.6	24.5	25.0	25.5
Variations with the observer position at spacings(CIE Pub.117):										
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, 1744 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.9)
Area: 0.0372 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2023-09-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:50%
Test Distance:2.513m [K=1.0000]
Remarks: Model No: UCL-31B-48G

UTILIZATION FACTORS TABLE

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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

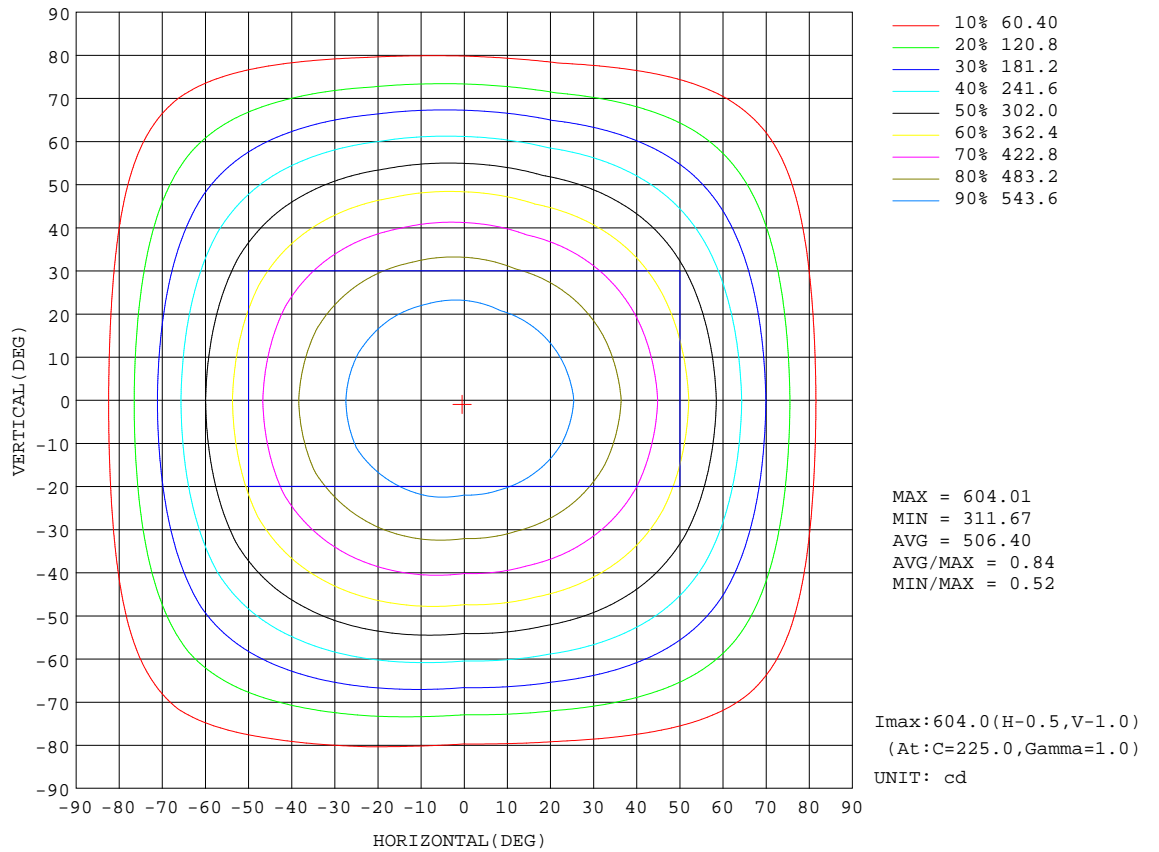
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	45	39	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	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	86	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:24.9DEG
 Operators:Water
 Test Date:2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

ISOCANDELA DIAGRAM

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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



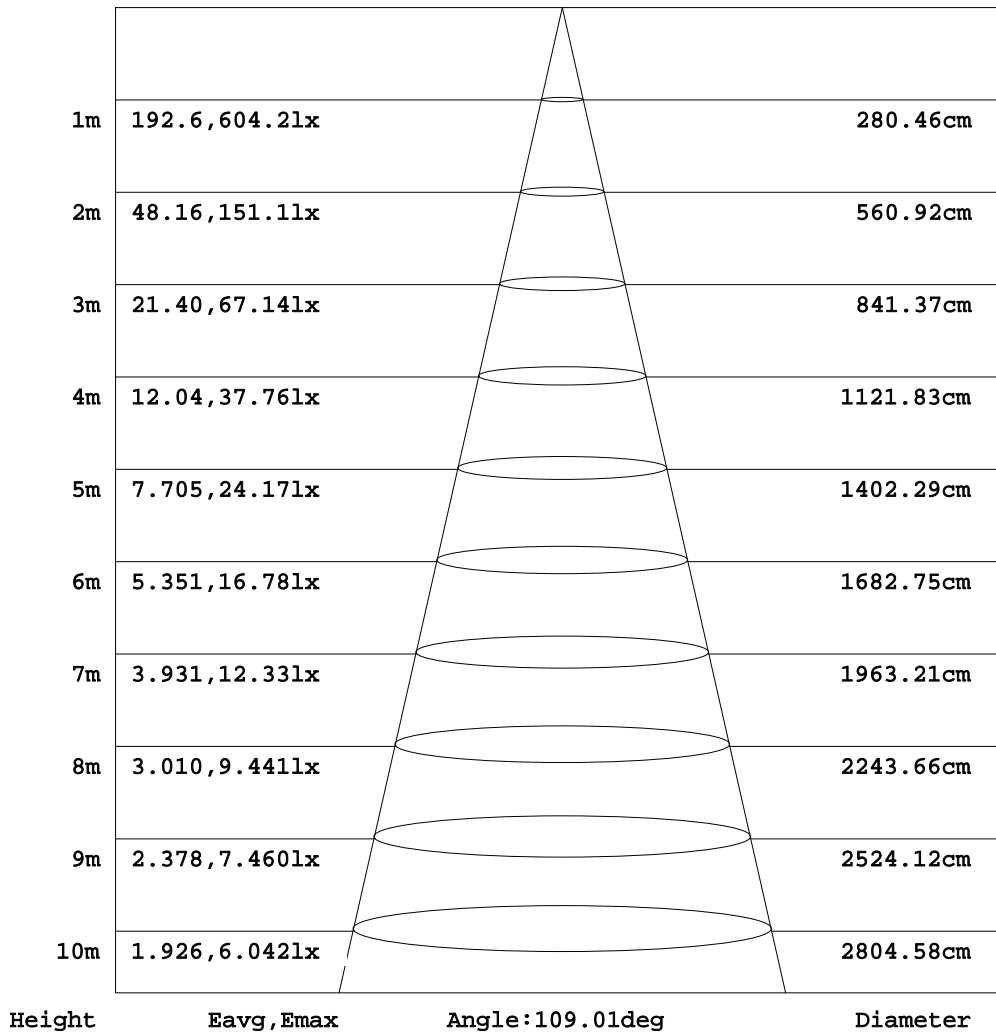
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

AAI Figure

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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

Flux out:1234 lm



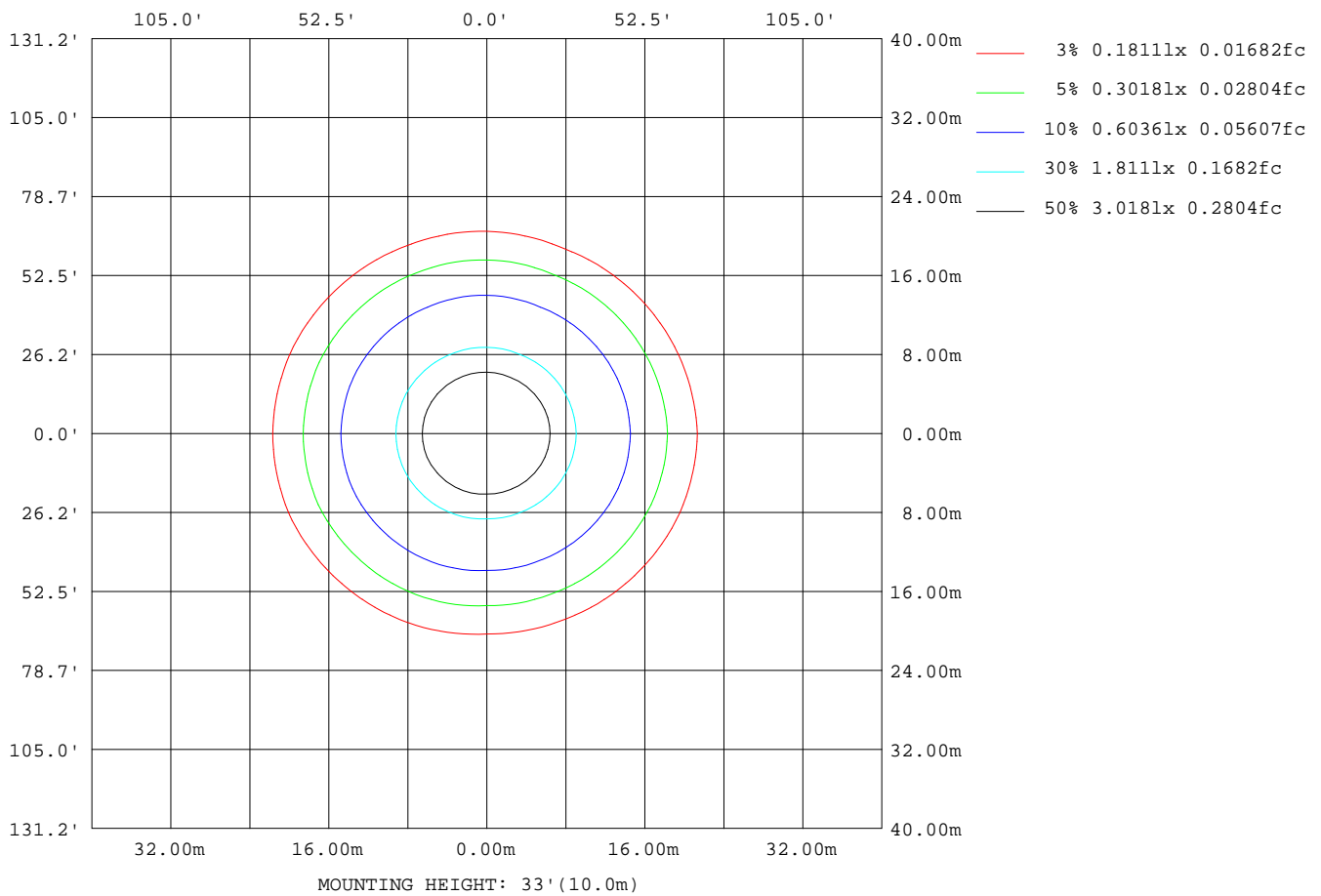
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2023-09-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:50%
Test Distance:2.513m [K=1.0000]
Remarks: Model No: UCL-31B-48G

ISOLUX DIAGRAM

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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:24.9DEG
Operators:Water
Test Date:2023-09-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:50%
Test Distance:2.513m [K=1.0000]
Remarks: Model No: UCL-31B-48G

LED Avg.L Report

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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

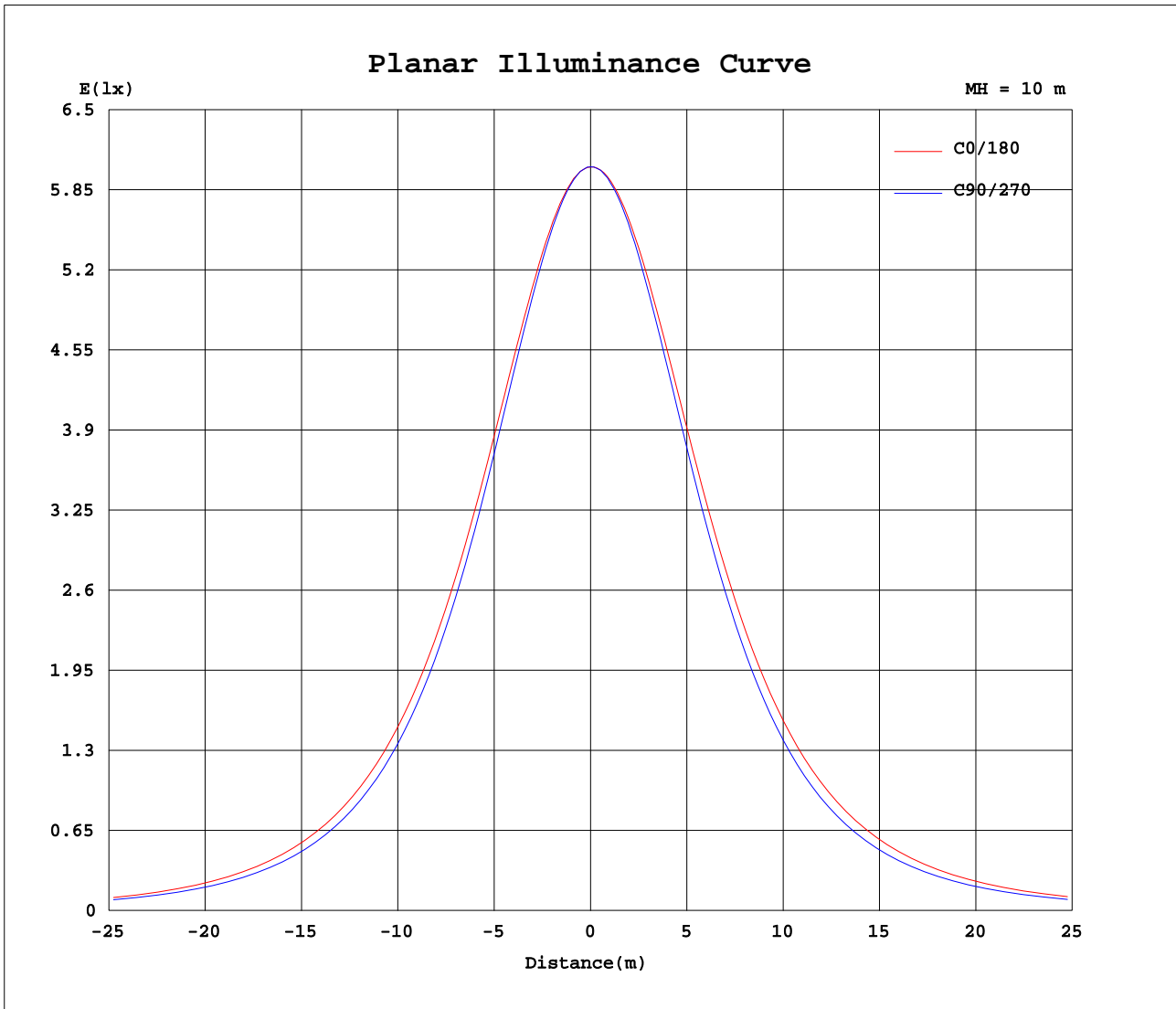
AvgL	cd/m2
L_0~180(65)av	15385
L_0~180(75)av	13713
L_0~180(85)av	10341
L_90~270(65)av	12742
L_90~270(75)av	10740
L_90~270(85)av	5020
L_45(65)av	13930
L_45(75)av	12048
L_45(85)av	7350

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2023-09-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 50%
 Test Distance: 2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-48G

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.2042A P:23.190W PF:0.9460 Freq:60.00Hz Lamp Flux:1744.0lx1 lm		
NAME: ASD-UCS-48D24CC	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	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604			
5	601	601	601	600	600	601	602	603	603	603	602	602	602	600	600	600			
10	593	592	591	590	590	593	595	597	597	597	595	594	593	590	591	592			
15	582	581	578	575	575	580	584	587	587	586	584	580	579	575	577	579			
20	566	563	559	555	554	561	566	572	573	571	567	562	559	554	558	562			
25	546	542	535	529	527	537	545	553	555	552	545	538	534	529	535	540			
30	521	516	508	499	497	508	519	529	532	528	519	509	504	499	506	514			
35	492	486	475	465	462	476	488	502	504	500	488	476	470	465	474	484			
40	459	453	440	428	424	439	454	469	473	467	453	439	432	427	438	450			
45	422	415	401	388	383	399	415	432	436	430	414	399	391	386	398	411			
50	381	373	358	344	340	356	373	392	396	389	372	355	347	342	355	369			
55	336	328	312	298	293	311	328	347	351	344	326	309	301	295	308	323			
60	287	279	263	250	246	263	279	298	302	294	277	261	253	247	259	274			
65	235	228	213	201	197	214	229	246	249	242	226	211	203	197	208	222			
70	180	175	162	152	149	164	177	193	194	188	173	160	154	147	157	168			
75	126	122	112	104	102	115	126	139	138	133	120	110	105	97.8	105	115			
80	75.2	72.1	65.4	59.5	58.1	69.6	77.3	86.6	84.4	80.7	71.6	63.2	58.6	51.1	58.6	65.5			
85	29.9	27.9	23.4	19.9	19.0	28.3	33.3	39.4	37.2	34.3	26.0	17.0	13.5	6.40	12.6	21.4			
90	0.17	0.14	0.27	0.33	0.35	2.86	3.66	4.95	0.40	0.05	0.04	0.04	0.04	0.04	0.04	0.05			
95	0.14	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06			
100	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.06	0.07	0.07	0.06	0.06	0.07	0.07	0.07			
105	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.08	0.09	0.09	0.08	0.08	0.09	0.08	0.09			
110	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.10	0.11	0.11	0.11	0.10	0.11	0.10	0.11			
115	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.13	0.13	0.13	0.13	0.12	0.13	0.13	0.14			
120	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.17			
125	0.29	0.30	0.30	0.30	0.30	0.30	0.29	0.28	0.20	0.19	0.20	0.19	0.17	0.18	0.19	0.19			
130	0.35	0.37	0.36	0.37	0.38	0.36	0.35	0.34	0.23	0.23	0.23	0.22	0.21	0.22	0.22	0.24			
135	0.43	0.44	0.45	0.46	0.47	0.45	0.43	0.40	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.28			
140	0.53	0.56	0.59	0.59	0.60	0.57	0.54	0.50	0.29	0.29	0.29	0.30	0.29	0.30	0.30	0.31			
145	0.64	0.68	0.75	0.77	0.77	0.73	0.70	0.62	0.33	0.32	0.33	0.35	0.35	0.35	0.35	0.36			
150	0.74	0.80	0.87	0.90	0.90	0.87	0.82	0.74	0.36	0.35	0.36	0.37	0.38	0.39	0.39	0.40			
155	0.87	0.91	0.96	1.01	1.03	0.98	0.91	0.85	0.41	0.39	0.41	0.42	0.42	0.45	0.44	0.47			
160	0.94	0.97	1.01	1.08	1.05	1.05	0.98	0.95	0.49	0.48	0.47	0.47	0.48	0.49	0.49	0.52			
165	0.95	0.97	1.00	1.03	1.05	1.03	0.98	0.96	0.55	0.55	0.50	0.50	0.51	0.53	0.52	0.57			
170	0.92	0.93	0.94	0.95	0.95	0.95	0.95	0.93	0.61	0.61	0.56	0.54	0.53	0.52	0.56	0.60			
175	0.89	0.88	0.89	0.87	0.86	0.88	0.90	0.91	0.69	0.69	0.66	0.62	0.61	0.60	0.64	0.69			
180	0.80	0.78	0.75	0.72	0.73	0.77	0.80	0.82	0.80	0.80	0.78	0.75	0.72	0.76	0.76	0.80			

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 C Interval: 22.5DEG
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