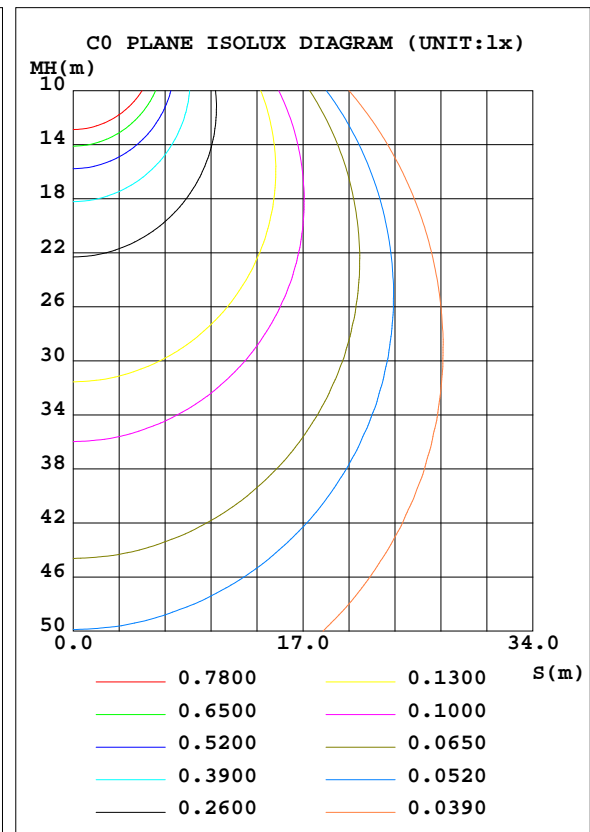
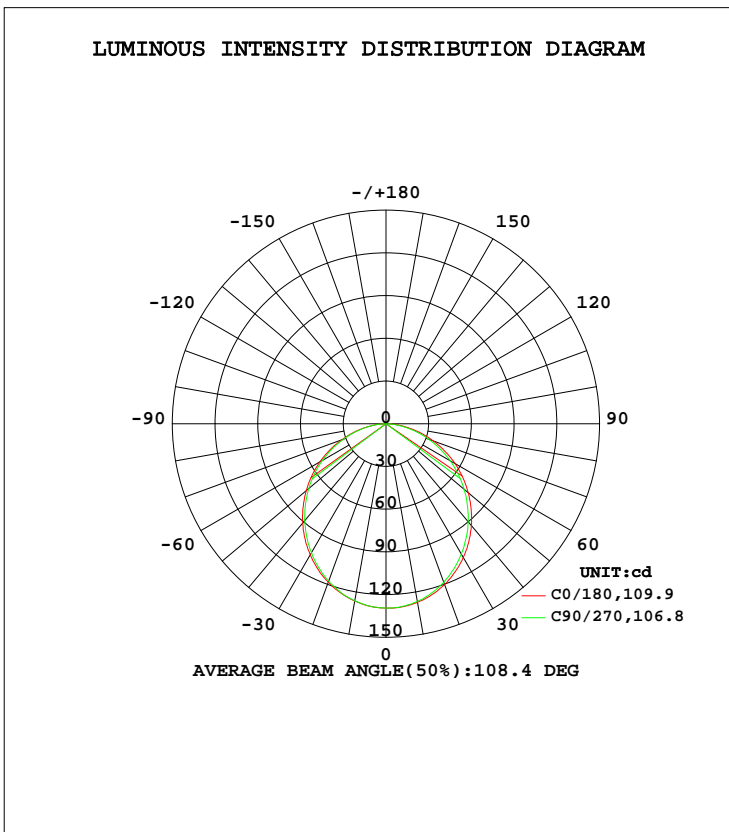


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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: 68.95 lm/W			
MODEL	ASD-UCS-12D5CC	I _{max} (cd)	129.6	S/MH(C0/180)	1.24
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	355.10	η UP, DN(C0-180)	0.1,49.7
NOMINAL FLUX(lm)	355.099	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.2
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:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	126.4	126.7	126.4	126.7	127.4	127.1	126.8	126.9	0- 10	12.23	12.23	3.44,3.44
20	118.5	118.3	117.6	118.8	120.1	119.5	118.5	119.1	10- 20	34.80	47.03	13.2,13.2
30	106.5	105.6	104.7	106.6	108.4	107.4	105.8	106.7	20- 30	52.10	99.13	27.9,27.9
40	91.03	89.63	88.85	90.97	93.24	91.91	89.84	90.83	30- 40	61.90	161.0	45.3,45.3
50	73.10	71.70	70.80	72.97	75.40	73.84	71.64	72.63	40- 50	63.25	224.3	63.2,63.2
60	53.68	52.51	51.58	53.55	55.93	54.13	52.09	53.18	50- 60	56.48	280.7	79.1,79.1
70	33.18	32.62	31.88	33.55	35.32	33.85	31.96	33.10	60- 70	42.82	323.6	91.1,91.1
80	14.00	13.64	13.46	14.33	15.57	14.31	13.06	13.89	70- 80	24.70	348.3	98.1,98.1
90	0.0180	0.0147	0.0128	0.0213	0.0563	0.0105	0.0000	0.0068	80- 90	6.476	354.7	99.9,99.9
100	0.0270	0.0374	0.0251	0.0432	0.0112	0.0054	0.0050	0.0062	90-100	0.0137	354.8	99.9,99.9
110	0.0332	0.0364	0.0334	0.0430	0.0194	0.0147	0.0147	0.0145	100-110	0.0244	354.8	99.9,99.9
120	0.0444	0.0488	0.0491	0.0526	0.0260	0.0251	0.0255	0.0245	110-120	0.0308	354.8	99.9,99.9
130	0.0697	0.0732	0.0774	0.0764	0.0387	0.0398	0.0402	0.0378	120-130	0.0413	354.8	99.9,99.9
140	0.1144	0.1254	0.1291	0.1246	0.0547	0.0555	0.0562	0.0559	130-140	0.0545	354.9	99.9,99.9
150	0.1668	0.1862	0.1946	0.1803	0.0703	0.0735	0.0782	0.0735	140-150	0.0687	355.0	100,100
160	0.2138	0.2222	0.2268	0.2236	0.0998	0.0982	0.0997	0.0976	150-160	0.0669	355.0	100,100
170	0.2027	0.2069	0.2092	0.2082	0.1230	0.1175	0.1184	0.1172	160-170	0.0464	355.1	100,100
180	0.1671	0.1585	0.1552	0.1674	0.1663	0.1649	0.1542	0.1586	170-180	0.0156	355.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 193 lm

%lum = 54.4%
%lamp = 54.4%

Conical surface Flux(120deg): 280.75 lm

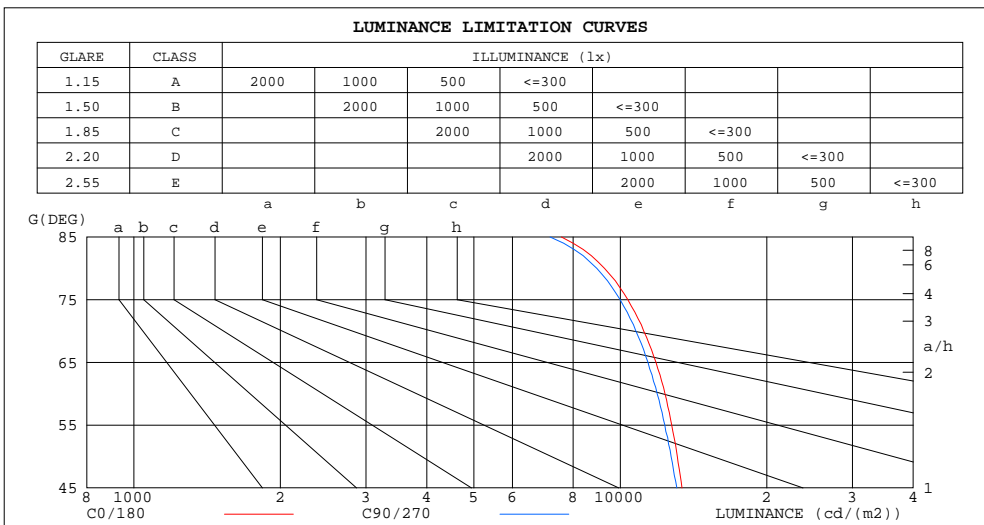
%lum = 79.1%
%lamp = 79.1%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Water
Test Date:2023-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:34%
Test Distance:2.513m [K=1.0000]
Remarks: Model No: UCL-31B-12G

LUMINANCE LIMITATION CURVES

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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	7570	7173
80	9280	8946
75	10365	9990
70	11170	10759
65	11846	11398
60	12359	11906
55	12757	12341
50	13093	12712
45	13392	13067

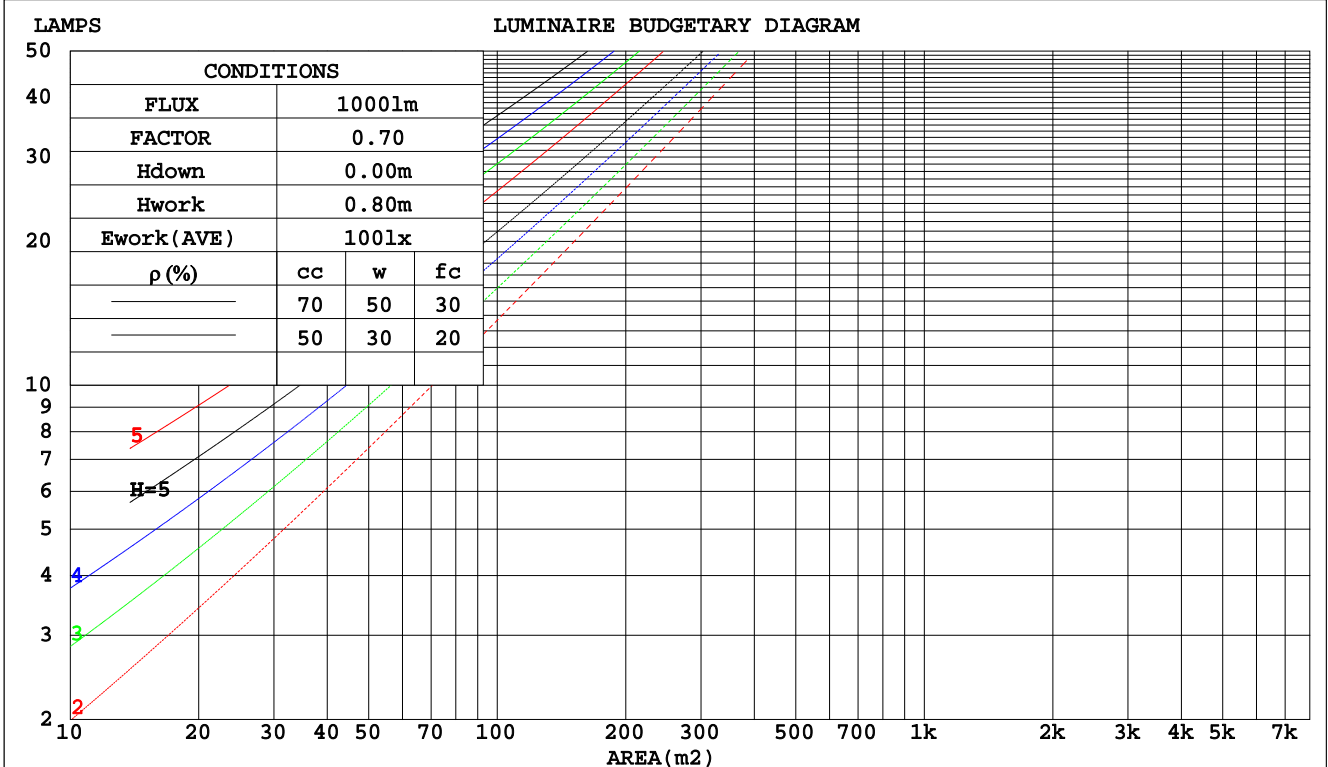
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 34%
 Test Distance: 2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.74	.79	.75	.72	.70
3.0	.80	.71	.65	.78	.70	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.36	.32	.30
9.0	.43	.35	.29	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

WEC AND CCEC

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz		
Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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	.308	.175	.055	.300	.171	.054	.287	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.290	.159	.049	.283	.156	.048	.272	.151	.047	.261	.146	.046	.251	.142	.045	
3.0	.268	.143	.043	.263	.141	.042	.252	.137	.042	.243	.133	.041	.234	.129	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.229	.117	.034	.225	.115	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.212	.106	.030	.209	.105	.030	.201	.103	.030	.195	.101	.030	.188	.099	.029	
7.0	.198	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.185	.090	.025	.182	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.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	.081	.061	.054	.047	.020	.017	.015	
2.0	.173	.133	.099	.148	.114	.086	.101	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.165	.115	.075	.141	.099	.065	.097	.069	.046	.056	.040	.027	.018	.013	.009	
4.0	.157	.102	.059	.135	.088	.052	.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	.129	.070	.030	.111	.061	.026	.077	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.123	.065	.026	.106	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.118	.061	.023	.101	.053	.020	.070	.037	.014	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

UGR(Unified Glare Rating) Table

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz										
Lamp Flux:355.099x1 lm										
NAME: ASD-UCS-12D5CC					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	25.2	26.7	25.5	27.0	27.2	25.1	26.6	25.3	26.8	27.0
3H	26.7	28.1	27.0	28.4	28.6	26.5	27.9	26.8	28.2	28.4
4H	27.3	28.7	27.6	28.9	29.2	27.1	28.5	27.5	28.7	29.0
6H	27.8	29.0	28.1	29.3	29.6	27.6	28.8	27.9	29.1	29.4
8H	27.9	29.1	28.2	29.4	29.7	27.7	28.9	28.0	29.2	29.5
12H	28.0	29.1	28.3	29.4	29.7	27.8	28.9	28.1	29.2	29.5
4H 2H	25.8	27.1	26.1	27.4	27.7	25.7	27.0	26.0	27.3	27.5
3H	27.5	28.7	27.9	29.0	29.3	27.4	28.5	27.7	28.8	29.1
4H	28.2	29.3	28.6	29.6	29.9	28.1	29.1	28.4	29.5	29.8
6H	28.8	29.7	29.2	30.1	30.4	28.6	29.6	29.0	29.9	30.3
8H	29.0	29.8	29.4	30.2	30.6	28.8	29.7	29.2	30.0	30.4
12H	29.1	29.9	29.5	30.3	30.7	28.9	29.7	29.3	30.1	30.5
8H 4H	28.5	29.4	28.9	29.7	30.1	28.3	29.2	28.8	29.6	30.0
6H	29.2	29.9	29.6	30.3	30.7	29.0	29.8	29.5	30.2	30.6
8H	29.4	30.1	29.9	30.5	31.0	29.3	29.9	29.8	30.4	30.8
12H	29.6	30.2	30.1	30.6	31.1	29.5	30.0	30.0	30.5	31.0
12H 4H	28.5	29.3	28.9	29.7	30.1	28.4	29.2	28.8	29.5	30.0
6H	29.2	29.9	29.7	30.3	30.8	29.1	29.7	29.6	30.2	30.6
8H	29.5	30.1	30.0	30.5	31.0	29.4	30.0	29.9	30.4	30.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 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, 355.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.6)
 Area: 0.00868 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

UTILIZATION FACTORS TABLE

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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

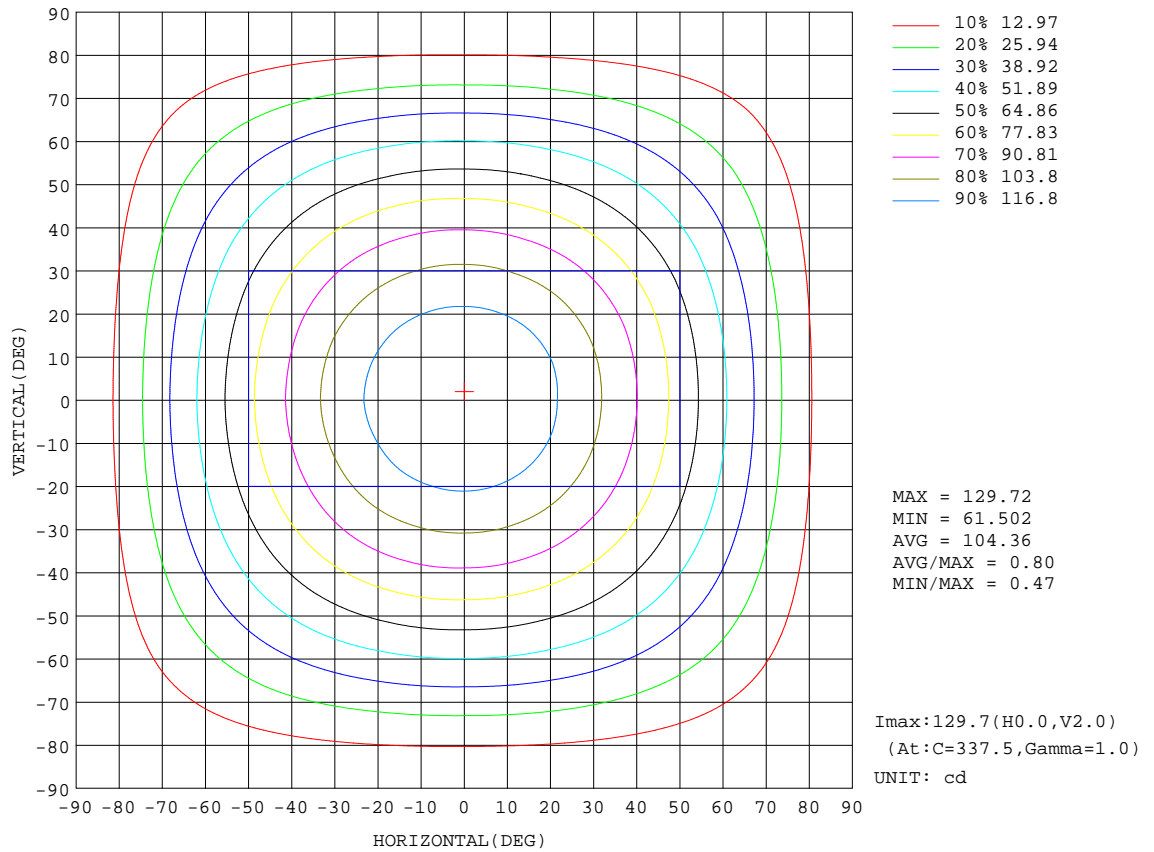
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	65	57
1.50	88	79	72	87	78	71	84	76	70	62
2.00	95	87	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	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:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

ISOCANDELA DIAGRAM

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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

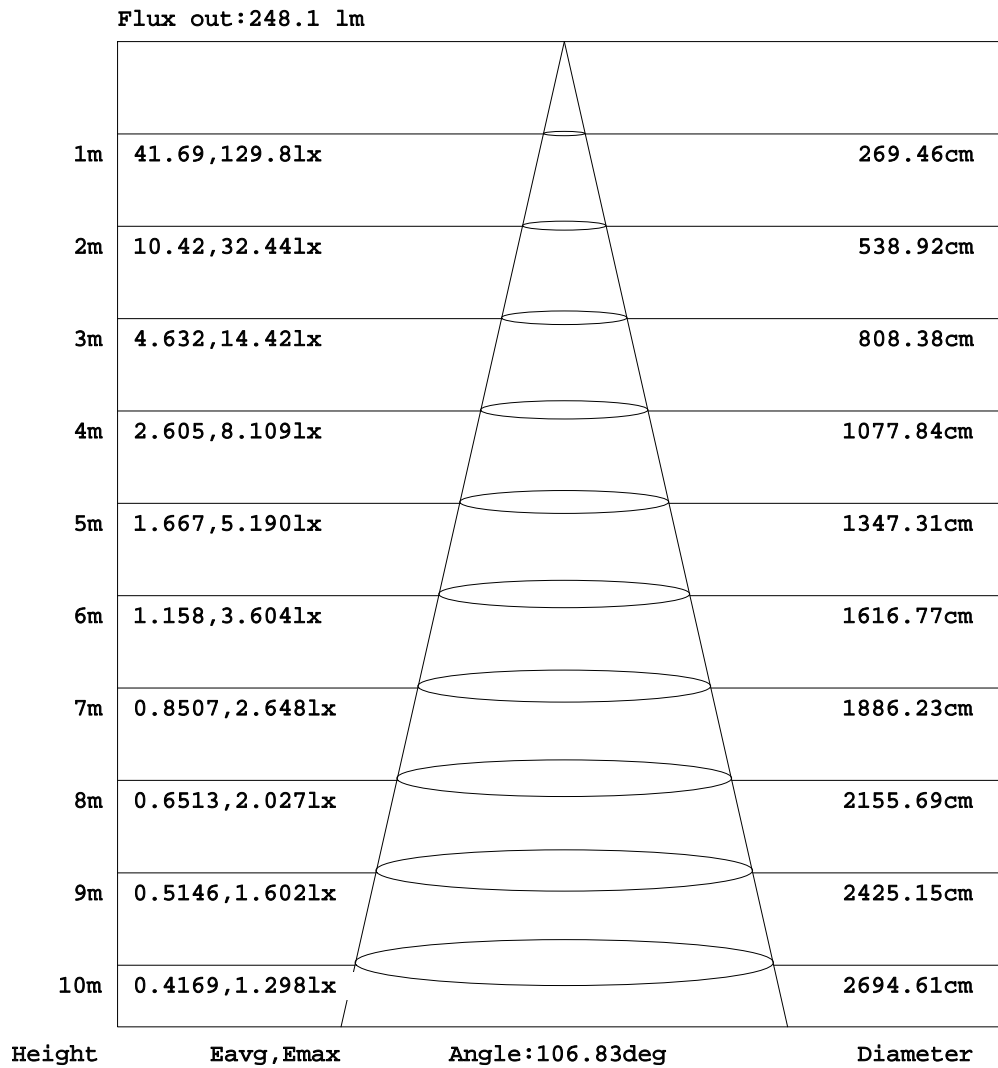


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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 Operators: Water
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γ Range: 0 - 180DEG
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 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 34%
 Test Distance: 2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

AAI Figure

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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



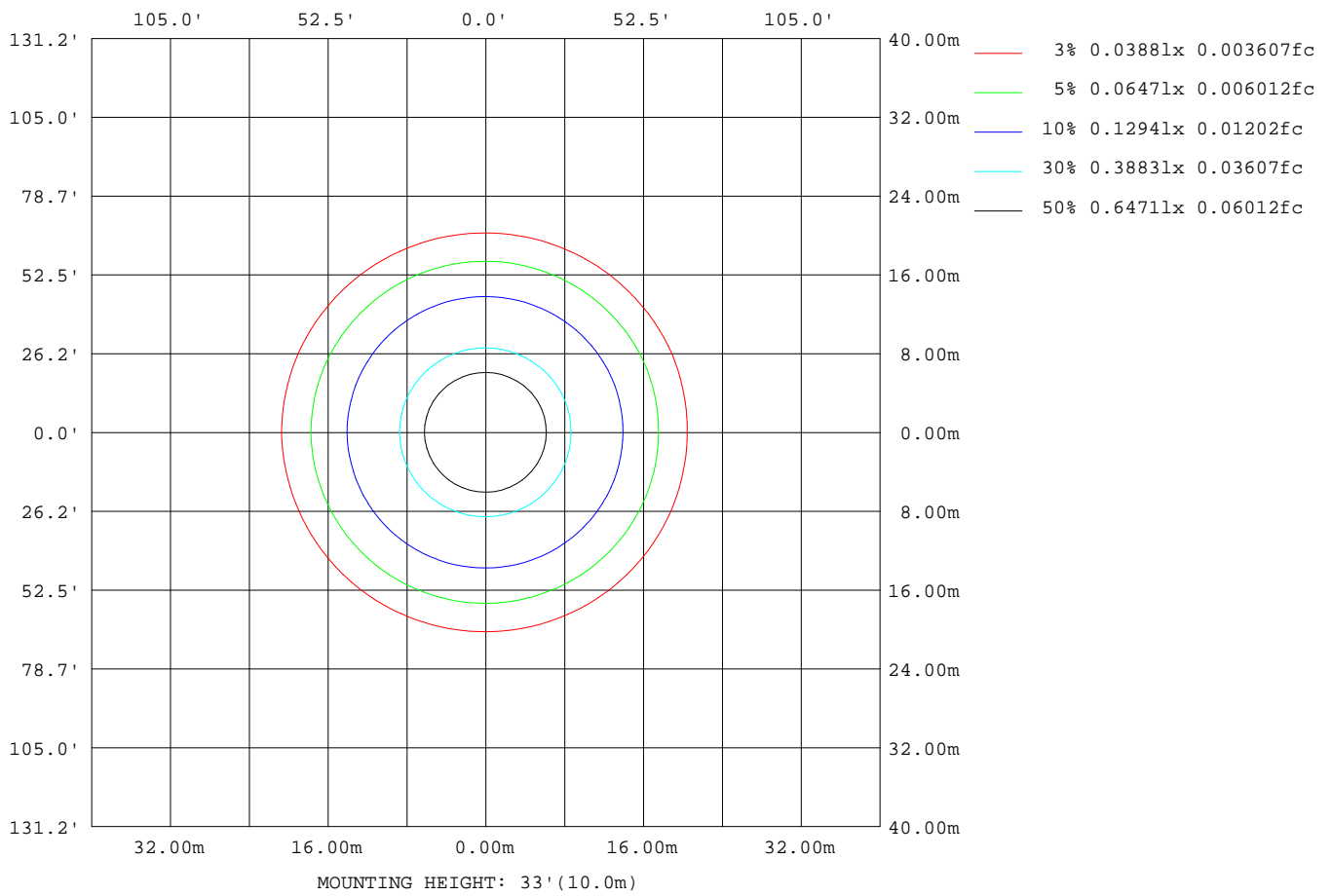
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
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 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

ISOLUX DIAGRAM

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

LED Avg.L Report

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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

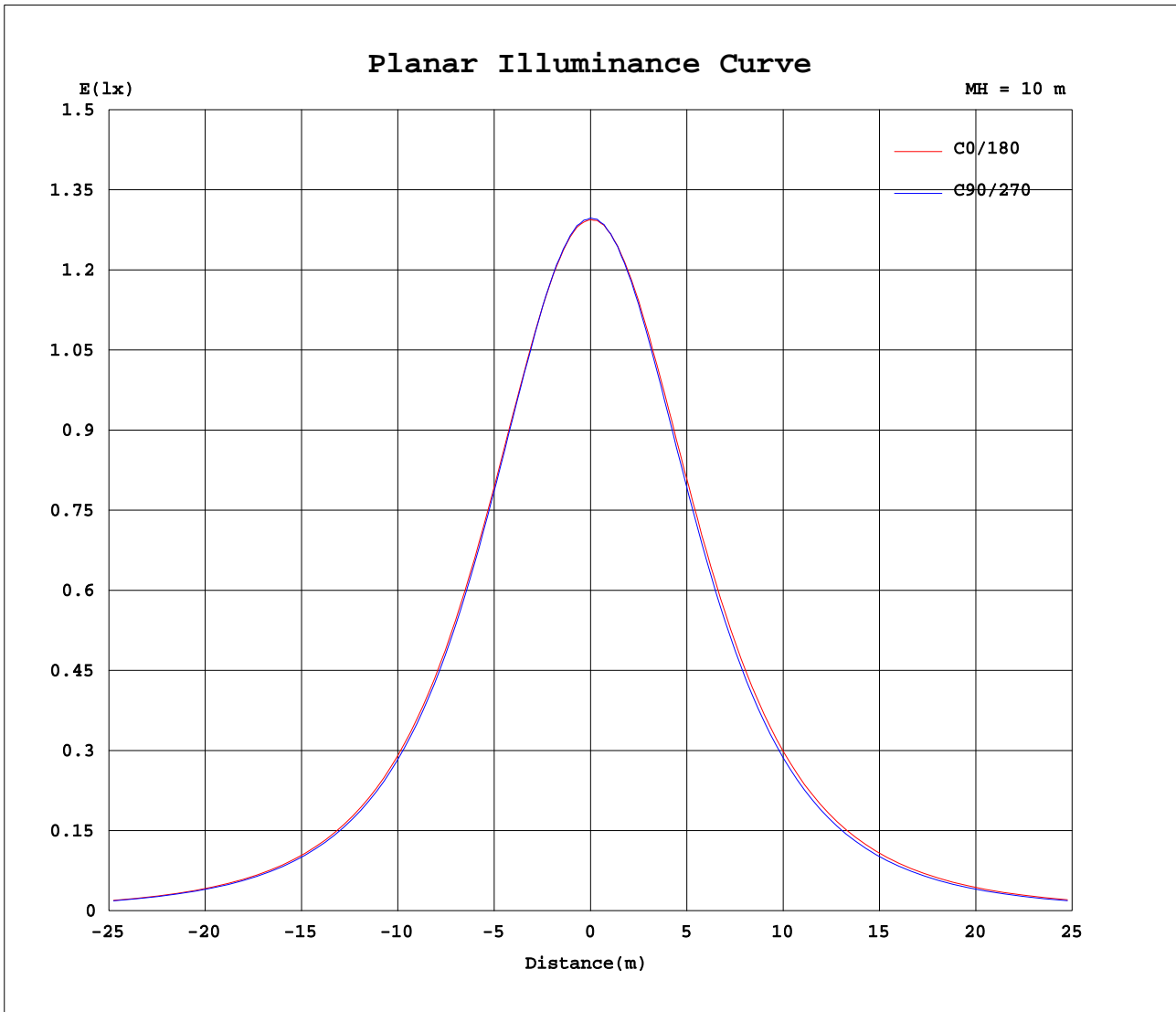
AvgL	cd/m2
L_0~180(65)av	12162
L_0~180(75)av	10779
L_0~180(85)av	8285
L_90~270(65)av	11422
L_90~270(75)av	9938
L_90~270(85)av	6533
L_45(65)av	11805
L_45(75)av	10406
L_45(85)av	7227

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 34%
 Test Distance: 2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:0.0456A P:5.1500W PF:0.9408 Freq:60.00Hz Lamp Flux:355.099x1 lm		
NAME: ASD-UCS-12D5CC	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	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130			
5	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129			
10	126	127	127	127	126	126	127	127	127	127	127	127	127	127	127	127			
15	123	123	123	123	123	123	124	124	124	124	124	124	123	123	123	124			
20	118	119	118	118	118	118	119	119	120	120	119	119	119	119	119	119			
25	113	113	112	112	112	112	113	114	115	115	114	113	113	113	113	113			
30	107	106	106	105	105	105	107	107	108	108	107	106	106	106	107	107			
35	99.0	98.5	98.0	97.3	97.1	98.0	99.3	100	101	101	100	98.8	98.1	98.3	99.0	99.5			
40	91.0	90.5	89.6	89.0	88.8	89.7	91.0	92.0	93.2	92.9	91.9	90.6	89.8	89.9	90.8	91.5			
45	82.3	81.8	80.9	80.2	80.1	80.9	82.4	83.5	84.6	84.3	83.2	81.8	80.9	81.0	81.8	82.6			
50	73.1	72.5	71.7	71.0	70.8	71.6	73.0	74.2	75.4	75.0	73.8	72.5	71.6	71.8	72.6	73.5			
55	63.6	63.1	62.2	61.5	61.3	62.1	63.5	64.6	65.9	65.4	64.2	62.9	62.0	62.2	62.9	63.9			
60	53.7	53.2	52.5	51.8	51.6	52.3	53.5	54.7	55.9	55.4	54.1	52.8	52.1	52.3	53.2	54.1			
65	43.5	43.2	42.7	42.0	41.7	42.4	43.5	44.5	45.7	45.3	44.0	42.8	42.1	42.3	43.1	44.0			
70	33.2	33.0	32.6	32.1	31.9	32.5	33.6	34.2	35.3	34.8	33.8	32.6	32.0	32.3	33.1	33.8			
75	23.3	23.1	22.8	22.7	22.4	22.8	23.7	24.2	25.1	24.7	23.8	22.8	22.2	22.6	23.2	23.8			
80	14.0	13.7	13.6	13.6	13.5	13.9	14.3	14.7	15.6	15.1	14.3	13.6	13.1	13.3	13.9	14.5			
85	5.73	5.43	5.49	5.44	5.42	5.68	5.90	6.17	6.80	6.40	5.45	4.76	4.47	4.38	5.03	6.03			
90	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.06	0.04	0.01	0.00	0.00	0.00	0.01	0.02			
95	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00			
105	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
110	0.03	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.01			
115	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
120	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.02	0.03	0.03	0.03	0.02	0.02	0.03			
125	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
130	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.07	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
135	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
140	0.11	0.12	0.13	0.12	0.13	0.13	0.12	0.11	0.05	0.05	0.06	0.06	0.06	0.05	0.06	0.06			
145	0.14	0.15	0.16	0.16	0.17	0.16	0.16	0.15	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07			
150	0.17	0.18	0.19	0.19	0.19	0.19	0.18	0.17	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.08			
155	0.19	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.09			
160	0.21	0.22	0.22	0.23	0.23	0.23	0.22	0.21	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
165	0.21	0.22	0.22	0.22	0.23	0.23	0.22	0.21	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11			
170	0.20	0.20	0.21	0.20	0.21	0.21	0.21	0.20	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12			
175	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.14	0.14	0.14	0.14	0.13	0.13	0.14	0.14			
180	0.17	0.17	0.16	0.15	0.16	0.15	0.17	0.17	0.17	0.17	0.16	0.16	0.15	0.16	0.16	0.17			

C Range: 0 - 360DEG
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