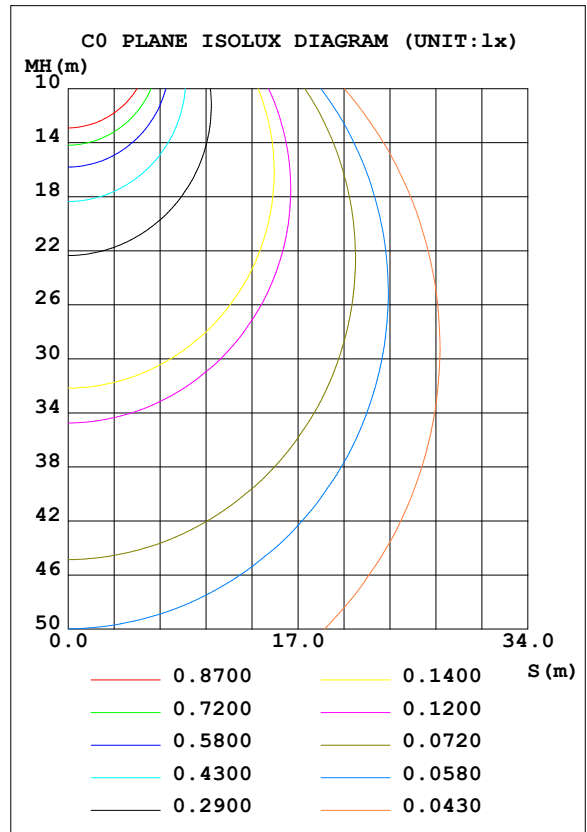
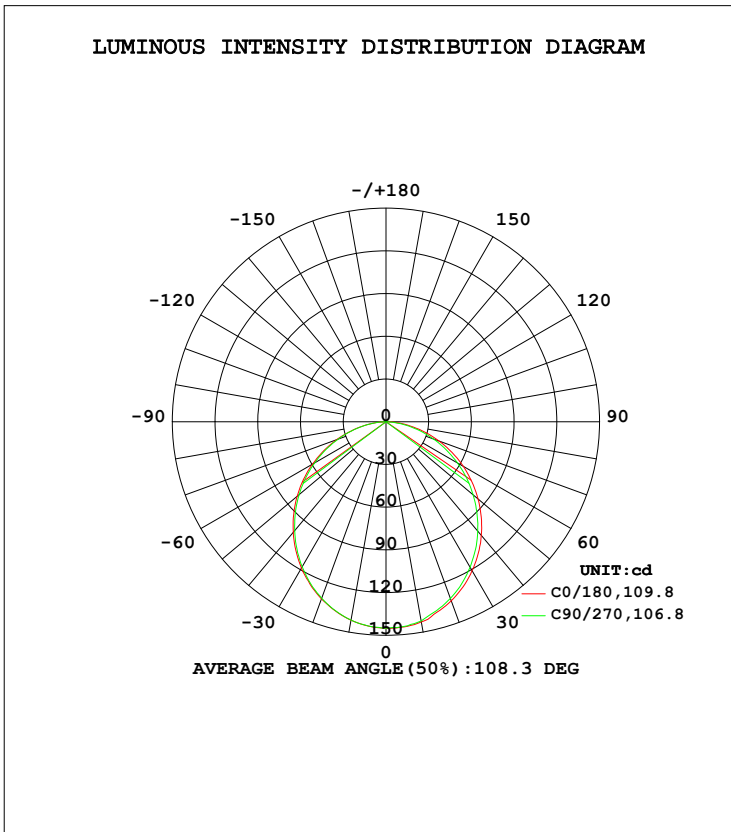


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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: 77.79 lm/W			
MODEL	ASD-UCS-12D5CC	I _{max} (cd)	145.3	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)	396.70	η UP, DN (C0-180)	0.1, 50.3
NOMINAL FLUX (lm)	396.704	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.6
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	141.6	141.4	141.4	142.8	142.8	142.6	142.0	141.1	0- 10	13.70	13.70	3.45,3.45
20	132.5	131.9	132.0	134.5	133.9	133.3	132.1	131.0	10- 20	38.86	52.56	13.2,13.2
30	118.7	118.0	117.7	121.1	120.9	119.8	118.1	116.5	20- 30	58.17	110.7	27.9,27.9
40	101.3	100.3	99.77	104.0	104.2	102.5	100.3	98.86	30- 40	69.13	179.9	45.3,45.3
50	81.47	80.31	79.63	84.24	84.44	82.40	79.88	78.59	40- 50	70.69	250.5	63.2,63.2
60	59.60	58.50	57.80	62.42	62.68	60.46	58.04	56.72	50- 60	63.14	313.7	79.1,79.1
70	36.75	36.29	35.81	39.87	39.66	37.83	35.54	34.49	60- 70	47.76	361.4	91.1,91.1
80	15.37	15.16	15.21	18.22	17.51	15.97	14.46	13.27	70- 80	27.56	389.0	98.1,98.1
90	0.0180	0.0180	0.0145	0.6250	0.0701	0.0137	0.0030	0	80- 90	7.296	396.3	99.9,99.9
100	0.0301	0.0422	0.0293	0.0511	0.0139	0.0064	0.0085	0.0089	90-100	0.0210	396.3	99.9,99.9
110	0.0382	0.0419	0.0388	0.0486	0.0227	0.0175	0.0180	0.0177	100-110	0.0285	396.3	99.9,99.9
120	0.0517	0.0548	0.0558	0.0585	0.0295	0.0284	0.0292	0.0301	110-120	0.0355	396.4	99.9,99.9
130	0.0789	0.0822	0.0871	0.0829	0.0443	0.0448	0.0452	0.0459	120-130	0.0468	396.4	99.9,99.9
140	0.1289	0.1407	0.1449	0.1323	0.0612	0.0627	0.0645	0.0652	130-140	0.0610	396.5	99.9,99.9
150	0.1866	0.2077	0.2181	0.1959	0.0788	0.0814	0.0887	0.0846	140-150	0.0765	396.6	100,100
160	0.2400	0.2483	0.2533	0.2486	0.1104	0.1092	0.1118	0.1114	150-160	0.0747	396.6	100,100
170	0.2256	0.2307	0.2337	0.2361	0.1376	0.1310	0.1325	0.1336	160-170	0.0520	396.7	100,100
180	0.1864	0.1772	0.1656	0.1918	0.1850	0.1838	0.1724	0.1810	170-180	0.0175	396.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 215.59 lm

%lum = 54.3%
 %lamp = 54.3%

Conical surface Flux(120deg): 313.67 lm

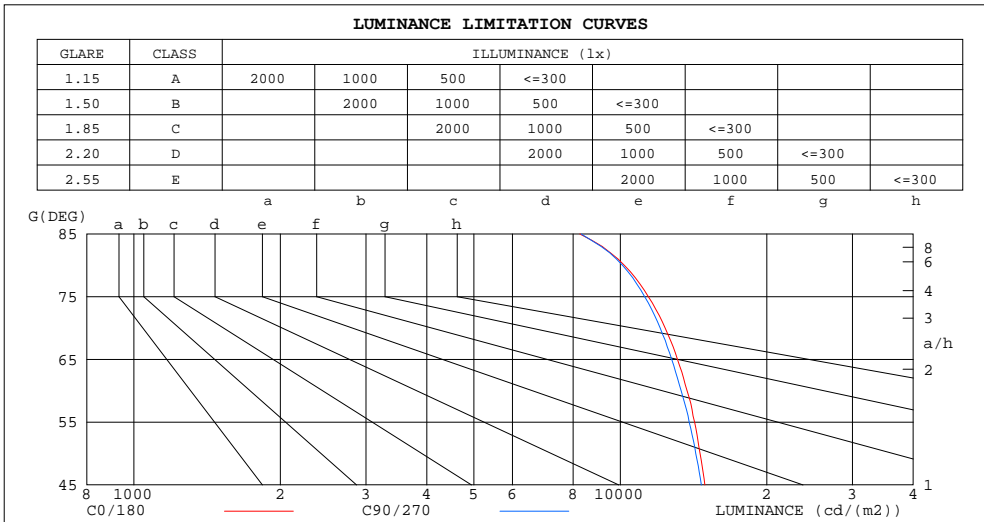
%lum = 79.1%
 %lamp = 79.1%

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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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	8255	8305
80	10190	10106
75	11420	11223
70	12368	12077
65	13103	12757
60	13720	13334
55	14218	13856
50	14590	14289
45	14918	14679

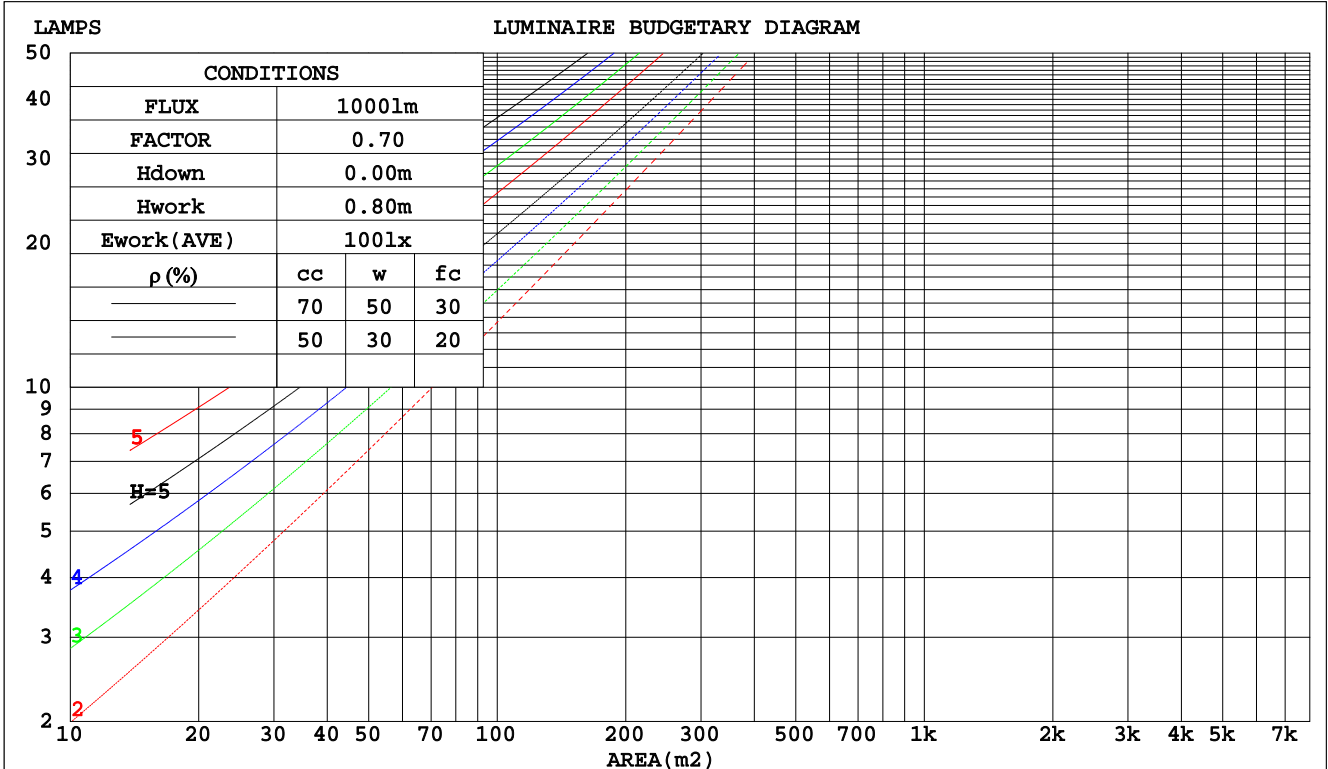
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2023-09-06

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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz		
Lamp Flux:396.704x1 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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz										
Lamp Flux:396.704x1 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	26.9	27.1	25.1	26.6	25.4	26.8	27.0
3H	26.7	28.1	27.0	28.3	28.6	26.6	28.0	26.9	28.2	28.4
4H	27.3	28.6	27.6	28.9	29.1	27.2	28.5	27.5	28.7	29.0
6H	27.7	29.0	28.0	29.2	29.5	27.6	28.8	27.9	29.1	29.4
8H	27.8	29.0	28.2	29.3	29.6	27.7	28.9	28.1	29.2	29.5
12H	27.9	29.1	28.3	29.4	29.7	27.8	29.0	28.1	29.2	29.6
4H 2H	25.8	27.1	26.1	27.4	27.6	25.7	27.0	26.0	27.3	27.5
3H	27.5	28.6	27.8	28.9	29.2	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	28.5	29.5	29.8
6H	28.7	29.7	29.1	30.0	30.4	28.6	29.6	29.0	29.9	30.3
8H	28.9	29.8	29.3	30.2	30.5	28.8	29.7	29.2	30.1	30.5
12H	29.0	29.8	29.4	30.2	30.6	28.9	29.7	29.4	30.1	30.5
8H 4H	28.4	29.3	28.9	29.7	30.1	28.3	29.2	28.8	29.6	30.0
6H	29.1	29.9	29.6	30.3	30.7	29.0	29.8	29.5	30.2	30.6
8H	29.4	30.0	29.8	30.5	30.9	29.3	30.0	29.8	30.4	30.8
12H	29.6	30.1	30.0	30.6	31.0	29.5	30.1	30.0	30.5	31.0
12H 4H	28.4	29.3	28.9	29.6	30.1	28.4	29.2	28.8	29.6	30.0
6H	29.2	29.8	29.6	30.3	30.7	29.1	29.8	29.6	30.2	30.6
8H	29.5	30.0	29.9	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, 396.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.2)
 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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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

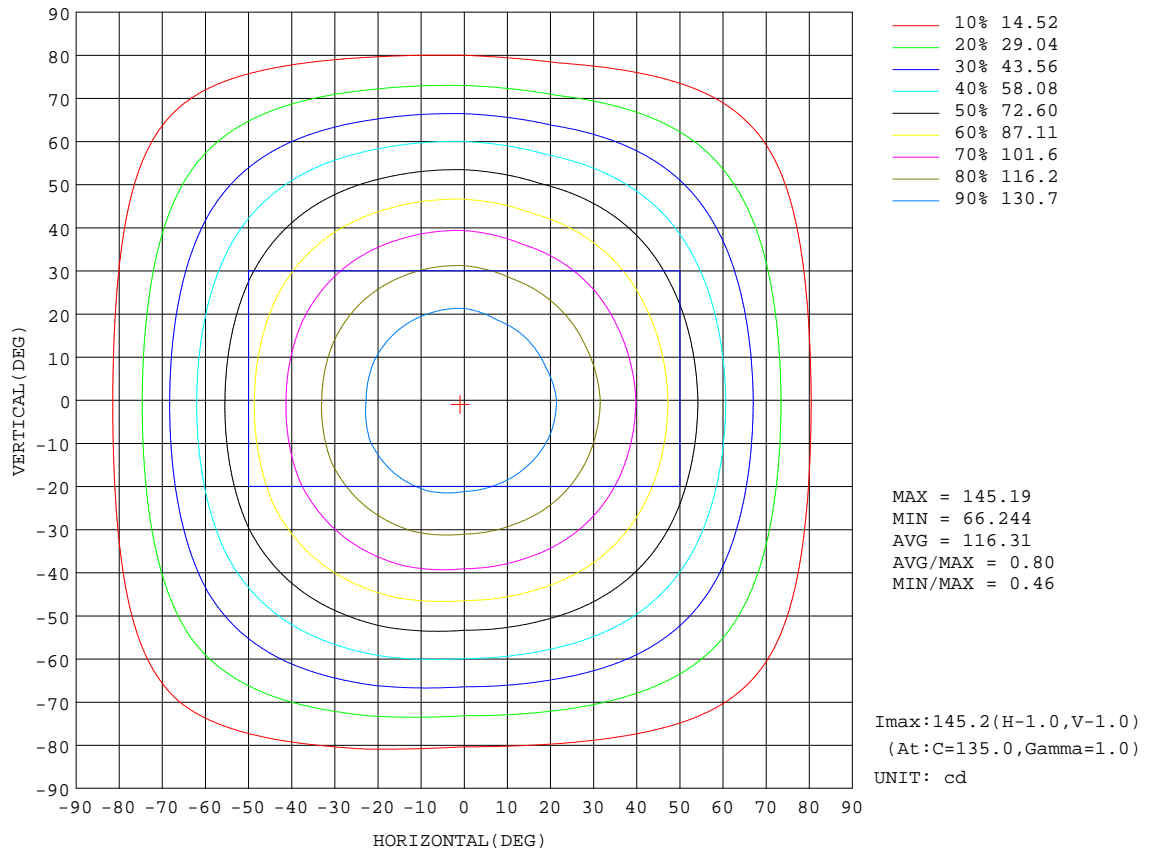
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	49	42
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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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



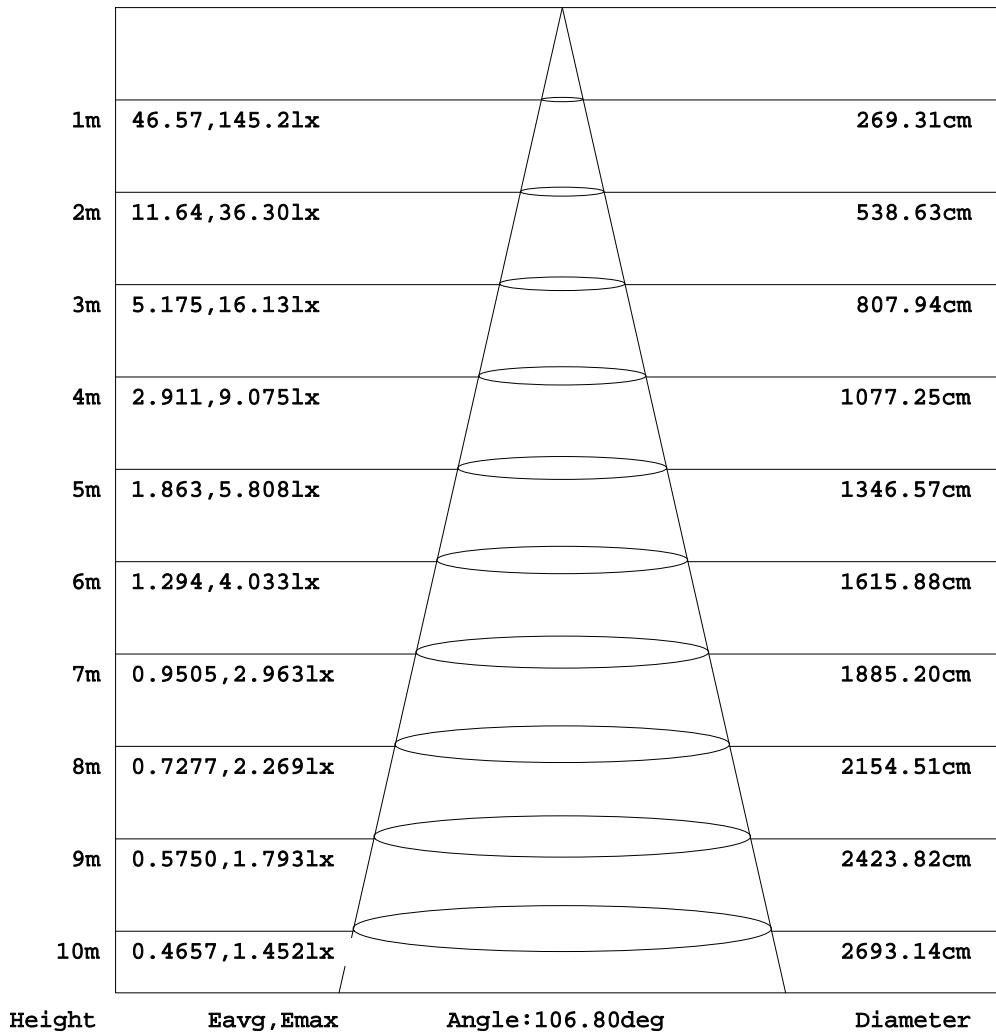
C Range: 0 - 360DEG
 C Interval: 22.5DEG
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γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:34%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-12G

AAI Figure

Test:U:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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

Flux out:277.2 lm



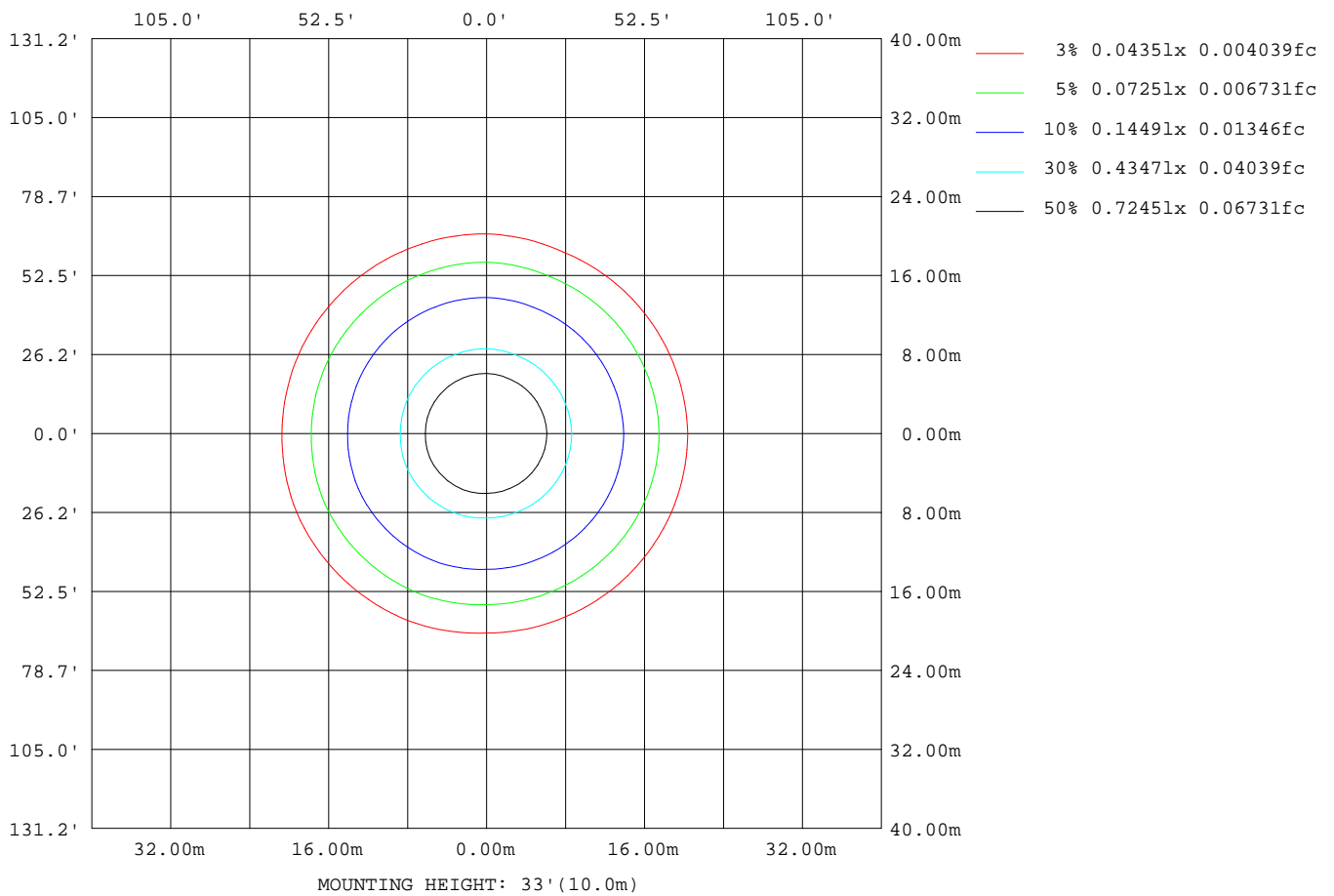
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 180DEG
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Humidity:34%
Test Distance:2.513m [K=1.0000]
Remarks: Model No: UCL-31B-12G

ISOLUX DIAGRAM

Test:U:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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

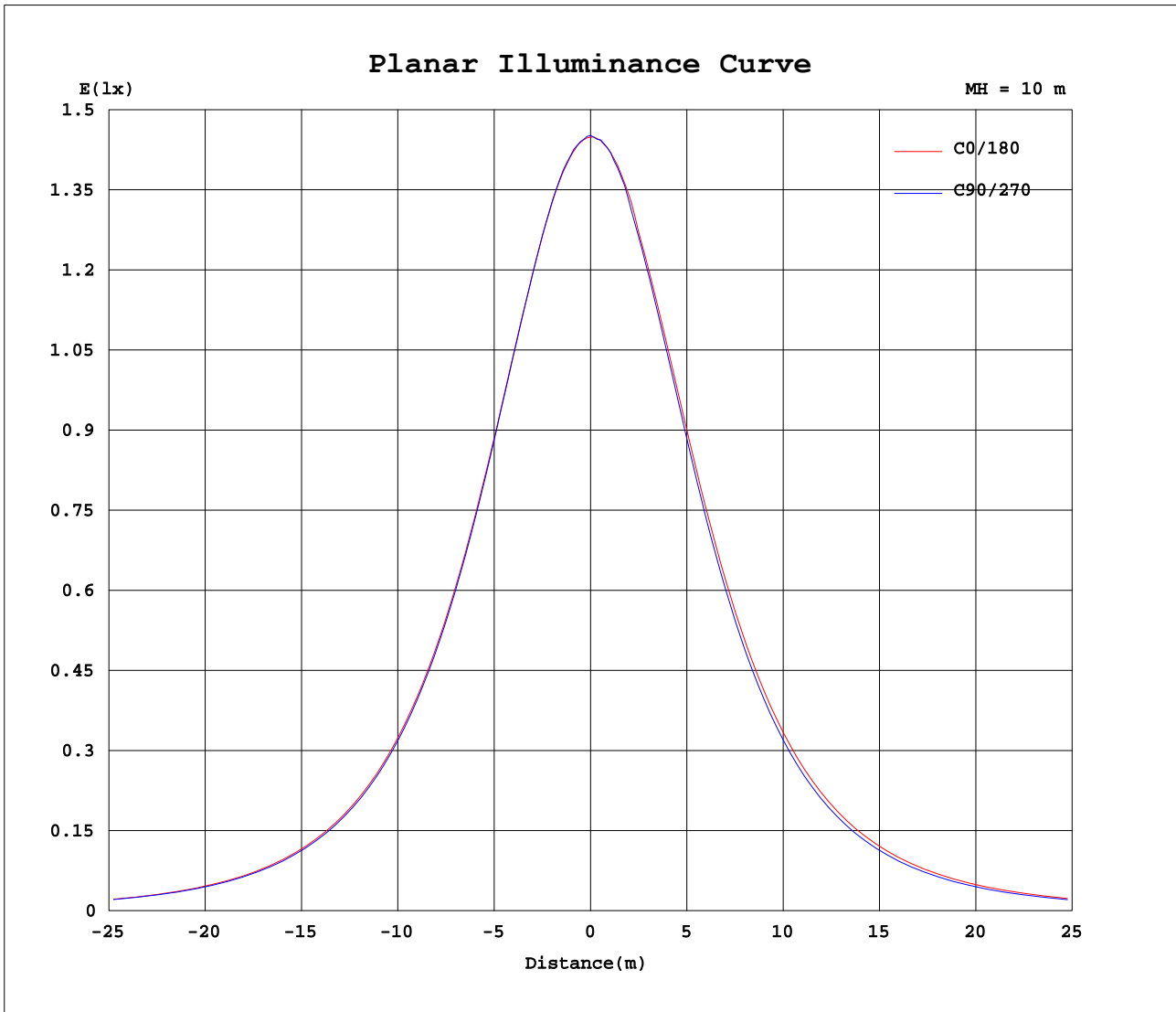
AvgL	cd/m2
L_0~180 (65) av	13542
L_0~180 (75) av	12011
L_0~180 (85) av	9265
L_90~270 (65) av	12738
L_90~270 (75) av	11102
L_90~270 (85) av	7393
L_45 (65) av	13172
L_45 (75) av	11595
L_45 (85) av	8143

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:120.06V I:0.0453A P:5.1000W PF:0.9377 Freq:60.00Hz Lamp Flux:396.704x1 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	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145			
5	144	144	144	144	144	144	145	145	145	144	144	145	144	144	144	144			
10	142	141	141	141	141	142	143	143	143	143	143	143	142	141	141	141			
15	138	137	137	138	137	139	139	140	138	138	138	138	137	136	136	136			
20	132	132	132	132	132	134	135	135	134	134	133	133	132	131	131	131			
25	126	126	126	125	125	127	128	129	128	128	127	126	126	124	124	125			
30	119	118	118	118	118	120	121	122	121	121	120	119	118	116	117	117			
35	110	110	110	109	109	112	113	114	113	113	112	111	110	108	108	109			
40	101	101	100	99.9	99.8	103	104	105	104	104	102	101	100	98.1	98.9	99.5			
45	91.6	91.3	90.5	90.0	90.0	92.9	94.3	95.6	94.6	94.1	92.7	91.5	90.3	88.2	89.0	89.8			
50	81.5	81.1	80.3	79.7	79.6	82.6	84.2	85.4	84.4	83.8	82.4	81.0	79.9	77.7	78.6	79.5			
55	70.8	70.5	69.8	69.1	68.9	72.0	73.5	74.8	73.7	73.1	71.6	70.2	69.1	66.9	67.8	68.9			
60	59.6	59.2	58.5	57.9	57.8	60.8	62.4	64.3	62.7	62.0	60.5	59.0	58.0	55.8	56.7	57.9			
65	48.1	48.0	47.5	46.9	46.7	49.7	51.0	52.2	51.3	50.7	49.1	47.7	46.7	44.6	45.6	46.6			
70	36.7	36.6	36.3	36.0	35.8	38.6	39.9	40.6	39.7	39.1	37.8	36.4	35.5	33.5	34.5	35.2			
75	25.7	25.5	25.3	25.4	25.2	27.8	28.8	29.4	28.3	27.7	26.6	25.4	24.7	22.8	23.5	24.2			
80	15.4	15.1	15.2	15.3	15.2	17.6	18.2	18.6	17.5	16.9	16.0	15.1	14.5	12.6	13.3	14.0			
85	6.25	6.08	6.20	6.22	6.28	8.18	8.50	8.75	7.77	7.23	6.12	5.30	4.91	3.29	3.83	4.95			
90	0.02	0.02	0.02	0.01	0.01	0.46	0.63	0.44	0.07	0.05	0.01	0.00	0.00	0.00	0.00	0.00			
95	0.02	0.02	0.02	0.02	0.02	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	0.04	0.04	0.04	0.03	0.05	0.05	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
105	0.03	0.04	0.04	0.04	0.03	0.04	0.05	0.04	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01			
110	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
115	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
120	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
125	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
130	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05			
135	0.10	0.10	0.11	0.11	0.11	0.10	0.10	0.09	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.06			
140	0.13	0.13	0.14	0.14	0.14	0.14	0.13	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07			
145	0.16	0.17	0.18	0.18	0.19	0.18	0.17	0.16	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08			
150	0.19	0.20	0.21	0.21	0.22	0.21	0.20	0.19	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.09			
155	0.22	0.23	0.24	0.24	0.24	0.23	0.22	0.22	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11			
160	0.24	0.25	0.25	0.26	0.25	0.25	0.25	0.24	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12			
165	0.24	0.24	0.24	0.25	0.25	0.26	0.25	0.24	0.12	0.12	0.12	0.12	0.12	0.13	0.12	0.13			
170	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.23	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.14			
175	0.22	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.16	0.16	0.15	0.15	0.15	0.15	0.16	0.17			
180	0.19	0.18	0.18	0.17	0.17	0.18	0.19	0.19	0.18	0.19	0.18	0.18	0.17	0.18	0.18	0.19			

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