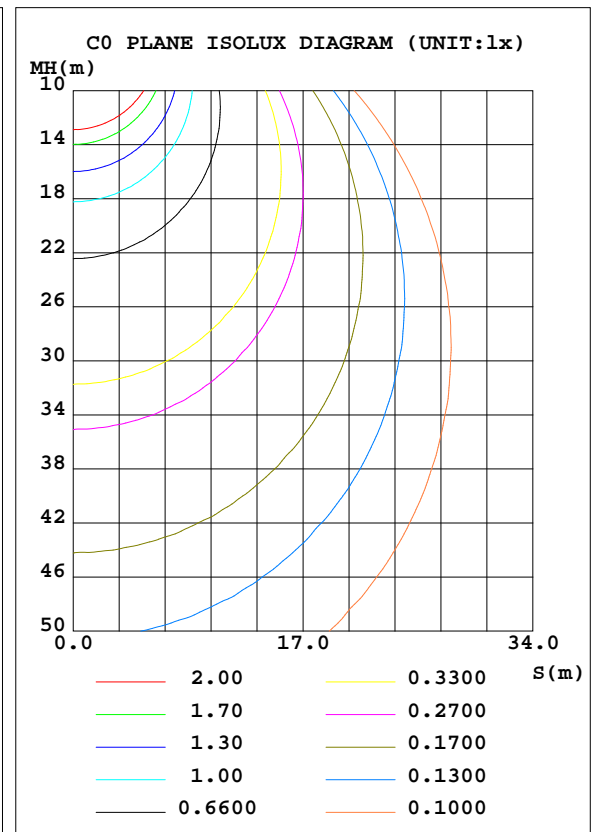
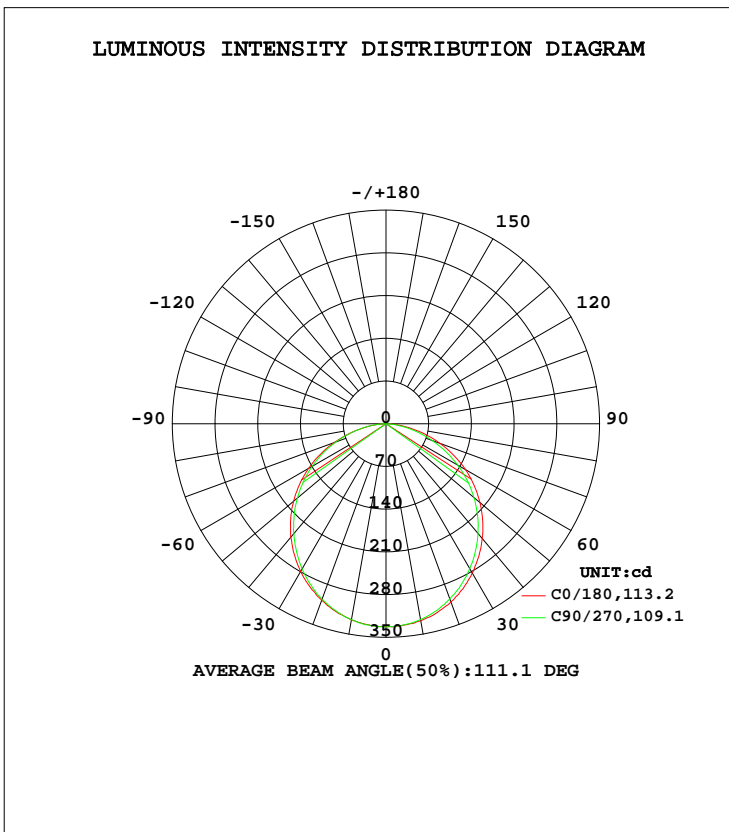


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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: 76.18 lm/W
MODEL	ASD-UCS-24D12CC	I _{max} (cd)	333.1	S/MH(C0/180)		1.26
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)		1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	933.26	η UP, DN(C0-180)		0.1,50.2
NOMINAL FLUX(lm)	933.262	CIE CLASS	DIRECT	η UP, DN(C180-360)		0.0,49.7
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:2023-09-08

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-24G

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	326.5	325.7	326.1	326.1	327.7	326.7	325.7	326.0	0- 10	31.44	31.44	3.37,3.37
20	307.9	307.0	306.4	307.1	310.9	308.3	305.6	306.4	10- 20	89.75	121.2	13,13
30	279.6	277.7	274.9	276.9	282.5	278.8	274.7	275.6	20- 30	135.3	256.5	27.5,27.5
40	242.8	238.9	234.9	239.2	245.5	240.1	234.7	237.7	30- 40	162.2	418.7	44.9,44.9
50	197.8	193.5	189.5	194.3	201.0	194.1	188.1	192.3	40- 50	167.5	586.2	62.8,62.8
60	146.7	143.2	139.8	144.3	150.4	142.7	135.8	141.1	50- 60	151.0	737.2	79,79
70	90.53	89.70	87.19	90.64	94.11	86.64	80.87	85.58	60- 70	114.5	851.6	91.3,91.3
80	35.57	36.75	35.99	37.38	38.94	33.60	29.66	32.86	70- 80	64.38	916.0	98.2,98.2
90	0.0772	0.0495	0.0445	0.0582	0.5151	0.0160	0.0159	0.0141	80- 90	16.23	932.3	99.9,99.9
100	0.0788	0.0911	0.0801	0.0920	0.0337	0.0328	0.0333	0.0301	90-100	0.0521	932.3	99.9,99.9
110	0.0979	0.1015	0.0998	0.1053	0.0553	0.0561	0.0553	0.0512	100-110	0.0714	932.4	99.9,99.9
120	0.1344	0.1366	0.1376	0.1416	0.0818	0.0825	0.0806	0.0775	110-120	0.0911	932.5	99.9,99.9
130	0.1963	0.1998	0.2085	0.2048	0.1191	0.1203	0.1141	0.1124	120-130	0.1188	932.6	99.9,99.9
140	0.3062	0.3309	0.3342	0.3241	0.1581	0.1631	0.1593	0.1560	130-140	0.1508	932.7	99.9,99.9
150	0.4310	0.4852	0.5011	0.4683	0.1924	0.2095	0.2120	0.2031	140-150	0.1828	932.9	100,100
160	0.5438	0.5747	0.5840	0.5653	0.2667	0.2711	0.2688	0.2562	150-160	0.1760	933.1	100,100
170	0.5138	0.5360	0.5284	0.5201	0.3313	0.3168	0.3078	0.3035	160-170	0.1201	933.2	100,100
180	0.4370	0.4168	0.4000	0.4219	0.4359	0.4281	0.4041	0.4017	170-180	0.0400	933.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 503.14 lm

%lum = 53.9%
 %lamp = 53.9%

Conical surface Flux(120deg): 737.19 lm

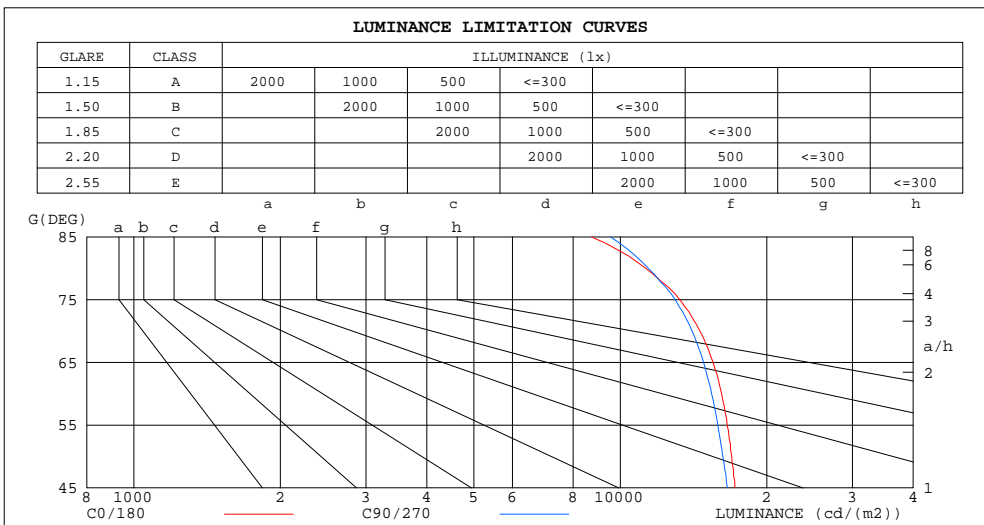
%lum = 79.0%
 %lamp = 79.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-08

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-24G

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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	8725	9554
80	11280	11418
75	13262	12971
70	14576	14043
65	15522	14829
60	16152	15406
55	16573	15865
50	16941	16239
45	17195	16599

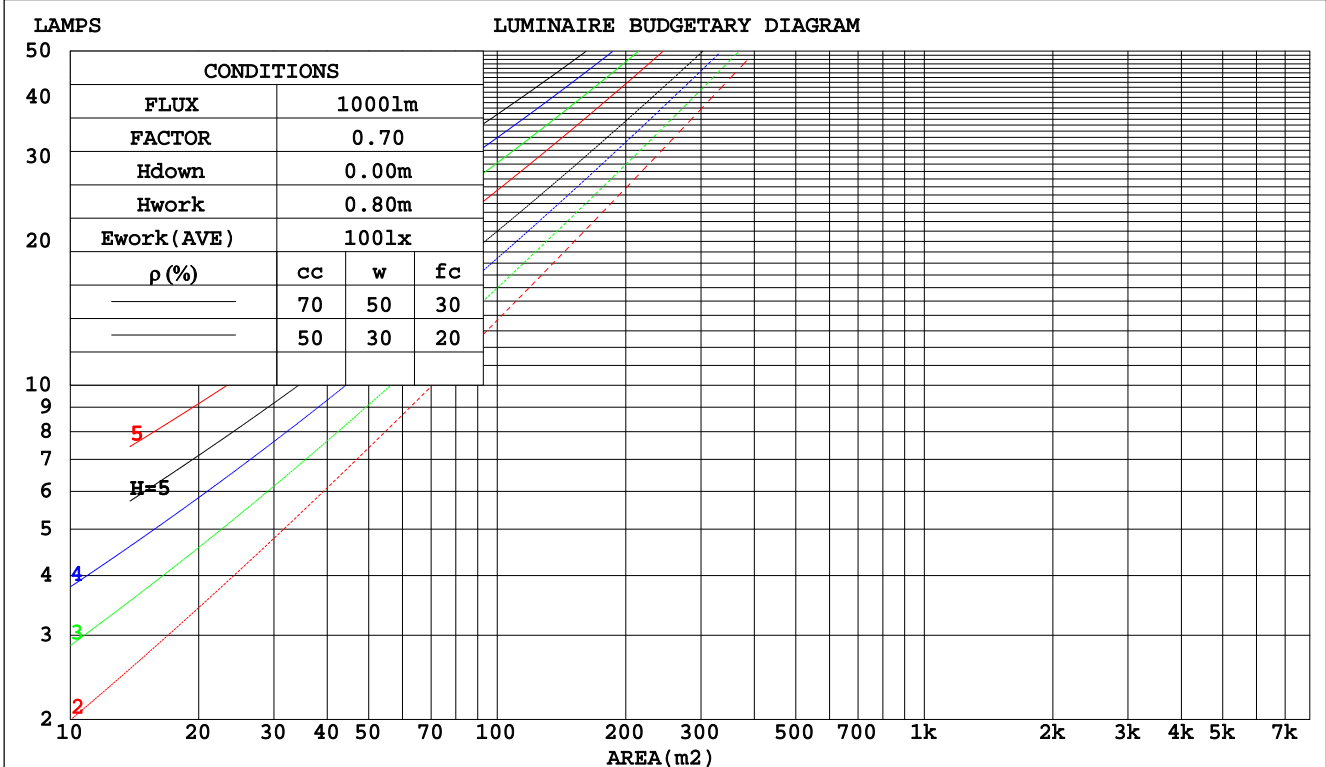
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2023-09-08

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-24G

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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	.73	.79	.75	.72	.70
3.0	.80	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.54	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38
7.0	.51	.43	.36	.50	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2023-09-08

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-24G

WEC AND CCEC

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz		
Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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	.307	.175	.055	.300	.171	.054	.287	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.290	.159	.049	.284	.156	.048	.272	.151	.047	.261	.147	.046	.251	.142	.045	
3.0	.269	.143	.043	.263	.141	.042	.253	.137	.042	.243	.133	.041	.234	.130	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.210	.111	.033	.202	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.101	.030	.189	.099	.030	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.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	.163	.078	.022	.161	.078	.022	.156	.076	.022	.152	.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	.117	.106	.093	.081	.061	.054	.047	.020	.017	.015	
2.0	.173	.133	.099	.148	.114	.086	.101	.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	.157	.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	.106	.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:2023-09-08

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-24G

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz										
Lamp Flux:933.262x1 lm										
NAME: ASD-UCS-24D12CC					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	22.9	24.4	23.2	24.6	24.8	22.7	24.2	23.0	24.4	24.6
3H	24.4	25.8	24.7	26.1	26.3	24.2	25.6	24.5	25.8	26.1
4H	25.0	26.3	25.3	26.6	26.9	24.8	26.1	25.1	26.4	26.6
6H	25.4	26.7	25.7	26.9	27.2	25.2	26.5	25.5	26.7	27.0
8H	25.5	26.7	25.8	27.0	27.3	25.3	26.5	25.7	26.8	27.1
12H	25.6	26.7	25.9	27.0	27.3	25.4	26.6	25.7	26.9	27.2
4H 2H	23.5	24.8	23.8	25.1	25.3	23.3	24.7	23.6	24.9	25.2
3H	25.2	26.4	25.6	26.7	27.0	25.0	26.2	25.4	26.5	26.8
4H	25.9	27.0	26.3	27.3	27.6	25.7	26.8	26.1	27.1	27.5
6H	26.4	27.4	26.8	27.7	28.1	26.3	27.2	26.7	27.6	27.9
8H	26.6	27.5	27.0	27.8	28.2	26.4	27.3	26.8	27.7	28.1
12H	26.7	27.5	27.1	27.9	28.3	26.5	27.4	27.0	27.7	28.2
8H 4H	26.2	27.1	26.6	27.4	27.8	26.0	26.9	26.4	27.3	27.6
6H	26.8	27.6	27.3	28.0	28.4	26.7	27.4	27.1	27.8	28.2
8H	27.1	27.7	27.5	28.1	28.6	26.9	27.6	27.4	28.0	28.5
12H	27.2	27.8	27.7	28.2	28.7	27.1	27.7	27.6	28.1	28.6
12H 4H	26.2	27.0	26.6	27.4	27.8	26.0	26.8	26.4	27.2	27.6
6H	26.9	27.5	27.3	28.0	28.4	26.7	27.4	27.2	27.8	28.3
8H	27.1	27.7	27.6	28.2	28.6	27.0	27.6	27.5	28.0	28.5
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, 933.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)
 Area: 0.018135 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-08

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-24G

UTILIZATION FACTORS TABLE

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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

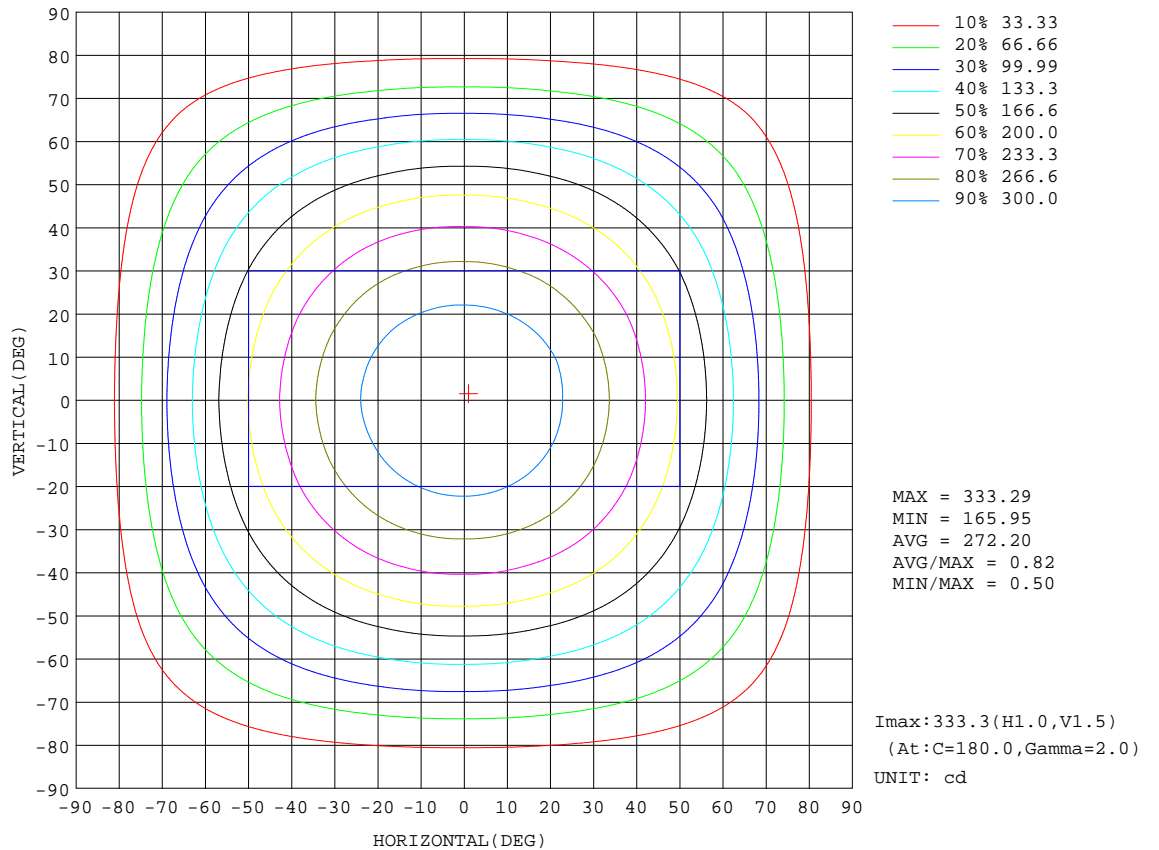
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	77	71	83	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	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	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:2023-09-08

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-24G

ISOCANDELA DIAGRAM

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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

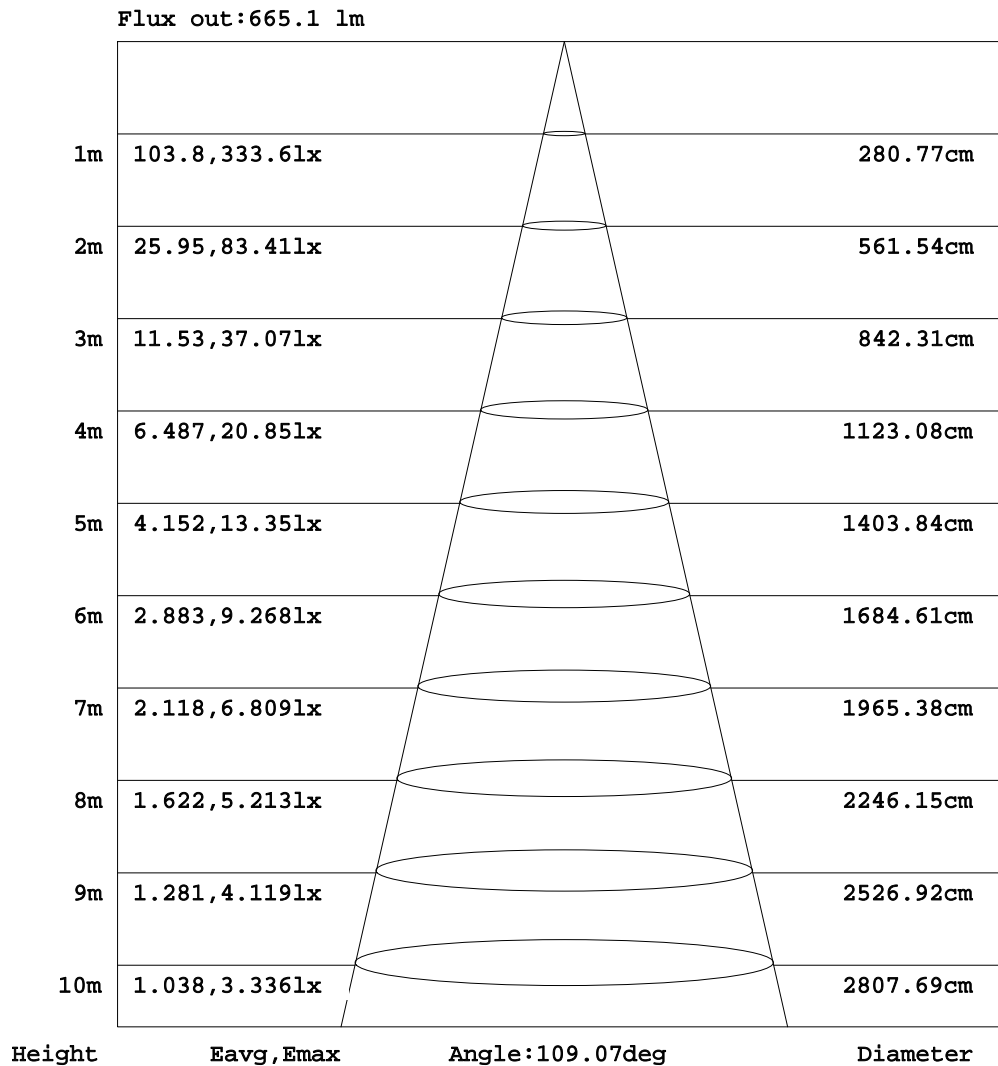


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2023-09-08

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-24G

AAI Figure

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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



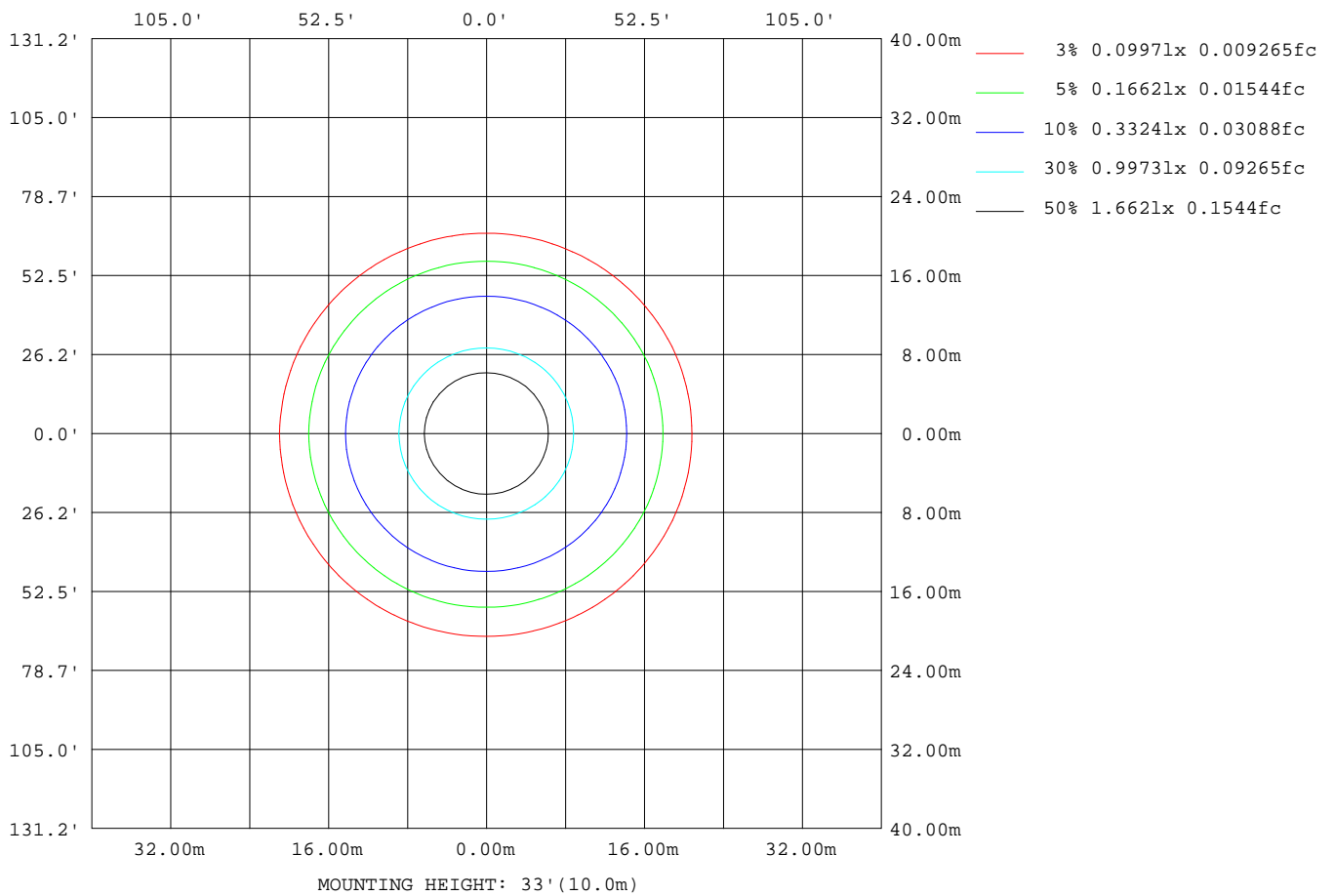
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-08

γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:50%
 Test Distance:2.513m [K=1.0000]
 Remarks: Model No: UCL-31B-24G

ISOLUX DIAGRAM

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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:2023-09-08

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-24G

LED Avg.L Report

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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

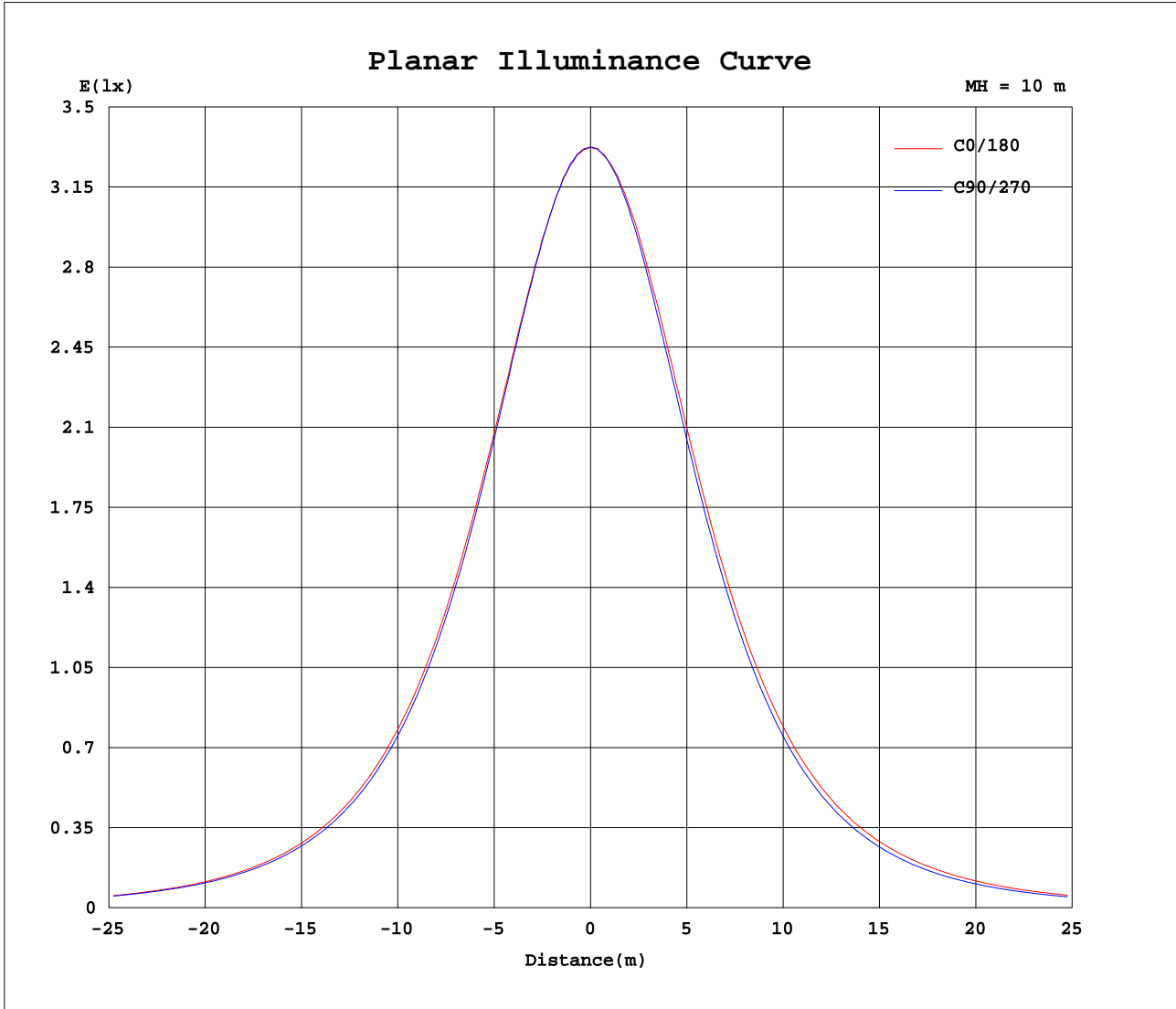
AvgL	cd/m2
L_0~180(65)av	15758
L_0~180(75)av	13643
L_0~180(85)av	9546
L_90~270(65)av	14492
L_90~270(75)av	12263
L_90~270(85)av	7765
L_45(65)av	15100
L_45(75)av	12969
L_45(85)av	8657

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2023-09-08

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-24G

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2023-09-08

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-24G

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.1072A P:12.250W PF:0.9519 Freq:60.00Hz Lamp Flux:933.262x1 lm		
NAME: ASD-UCS-24D12CC	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	333	333	333	333	333	333	333	333	333	333	333	333	333	333	333	333			
5	331	331	331	331	331	331	330	331	331	331	331	331	331	331	330	331			
10	327	326	326	326	326	326	326	326	328	327	327	326	326	325	326	327			
15	318	318	318	317	317	316	318	319	321	320	318	317	317	316	317	318			
20	308	308	307	306	306	306	307	308	311	310	308	307	306	305	306	308			
25	295	295	293	292	291	292	293	295	298	297	295	292	291	291	292	294			
30	280	279	278	276	275	275	277	279	282	281	279	276	275	275	276	279			
35	262	261	259	256	256	257	259	262	265	264	261	258	255	255	258	261			
40	243	242	239	236	235	236	239	242	246	244	240	237	235	235	238	241			
45	221	220	217	214	213	214	217	221	224	222	218	214	212	212	216	219			
50	198	197	193	190	189	191	194	198	201	199	194	190	188	189	192	196			
55	173	172	169	166	165	166	170	174	177	174	169	165	163	164	168	171			
60	147	146	143	141	140	141	144	148	150	148	143	138	136	137	141	146			
65	119	119	117	114	114	115	118	121	122	120	115	110	108	109	113	118			
70	90.5	90.9	89.7	87.8	87.2	88.1	90.6	92.4	94.1	91.2	86.6	82.6	80.9	81.9	85.6	89.6			
75	62.3	63.1	62.6	61.3	60.9	61.7	63.4	64.3	65.7	63.2	59.3	55.7	54.2	55.0	58.2	61.8			
80	35.6	36.7	36.7	36.4	36.0	36.6	37.4	37.7	38.9	36.8	33.6	30.9	29.7	30.5	32.9	35.6			
85	13.8	14.9	15.2	15.2	15.1	15.4	15.4	15.4	16.4	14.8	12.3	10.4	9.43	10.2	11.8	14.1			
90	0.08	0.06	0.05	0.04	0.04	0.05	0.06	0.11	0.52	0.13	0.02	0.02	0.02	0.01	0.01	0.04			
95	0.07	0.09	0.09	0.06	0.06	0.06	0.09	0.09	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
100	0.08	0.09	0.09	0.08	0.08	0.09	0.09	0.09	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
105	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
110	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.06	0.05	0.06	0.05	0.06	0.06	0.05	0.05			
115	0.11	0.12	0.12	0.11	0.11	0.12	0.12	0.12	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07			
120	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
125	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.10	0.10	0.10	0.10	0.10	0.09	0.10	0.10			
130	0.20	0.20	0.20	0.20	0.21	0.21	0.20	0.20	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.12			
135	0.24	0.24	0.25	0.25	0.26	0.26	0.25	0.23	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.14			
140	0.31	0.32	0.33	0.33	0.33	0.33	0.32	0.30	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16			
145	0.37	0.39	0.42	0.43	0.43	0.42	0.40	0.37	0.18	0.18	0.19	0.19	0.19	0.19	0.18	0.19			
150	0.43	0.47	0.49	0.50	0.50	0.49	0.47	0.44	0.19	0.19	0.21	0.21	0.21	0.21	0.20	0.21			
155	0.51	0.54	0.54	0.55	0.56	0.55	0.53	0.51	0.22	0.22	0.24	0.24	0.23	0.24	0.23	0.25			
160	0.54	0.56	0.57	0.60	0.58	0.58	0.57	0.55	0.27	0.26	0.27	0.27	0.27	0.26	0.26	0.28			
165	0.54	0.55	0.57	0.58	0.59	0.57	0.56	0.54	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.30			
170	0.51	0.52	0.54	0.53	0.53	0.52	0.52	0.52	0.33	0.33	0.32	0.31	0.31	0.29	0.30	0.32			
175	0.49	0.49	0.50	0.49	0.48	0.47	0.49	0.49	0.38	0.38	0.37	0.35	0.34	0.33	0.34	0.37			
180	0.44	0.43	0.42	0.40	0.40	0.40	0.42	0.44	0.44	0.44	0.43	0.42	0.40	0.40	0.40	0.42			

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