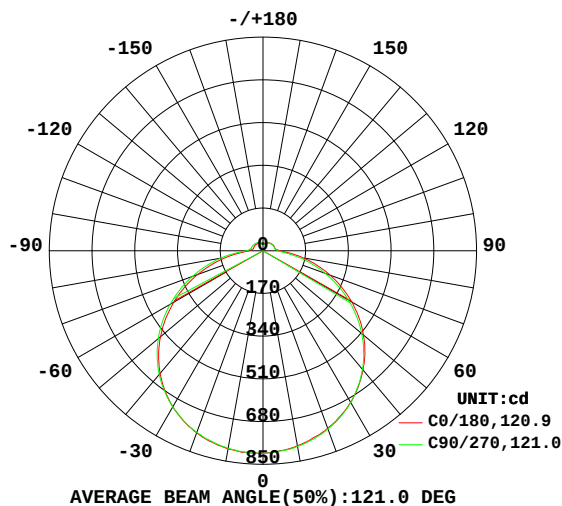


LUMINAIRE PHOTOMETRIC TEST REPORT

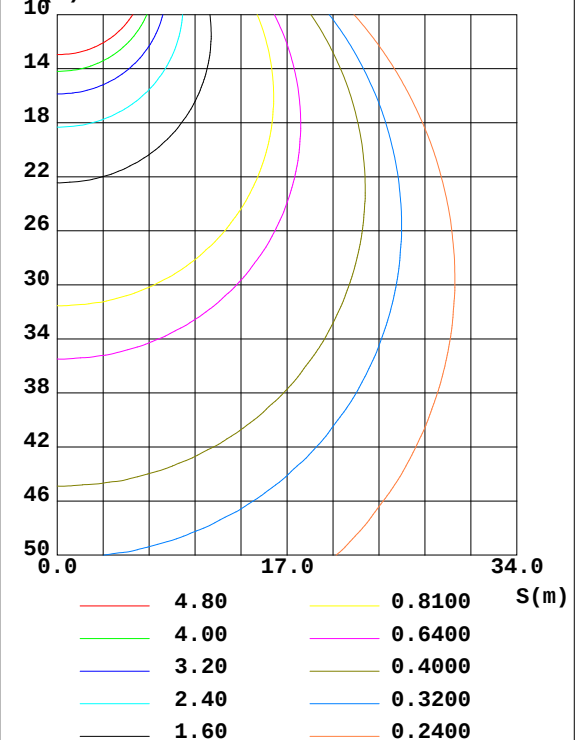
Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME: ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 66.23 lm/W
MODEL	ASD-LOFT-FM-20D42SM-RGBW-BK	I _{max} (cd)	809.5	S/MH(C0/180)	1.29	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.29	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2882.8	η UP, DN(C0-180)	4.8, 46.2	
NOMINAL FLUX(lm)	2882.83	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.8, 44.3	
LAMPS INSIDE	1	η up(%)	9.5	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120	η down(%)	90.5	CIBSE SHR MAX	1.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-10-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	800.5	801.4	798.2	792.0	788.0	788.1	791.1	796.0	0- 10	76.42	76.42	2.65, 2.65
20	771.7	774.1	769.3	758.8	751.9	750.9	755.3	764.4	10- 20	220.8	297.2	10.3, 10.3
30	717.6	721.8	718.3	706.5	696.8	693.3	697.9	708.7	20- 30	340.5	637.7	22.1, 22.1
40	637.2	645.0	642.9	630.9	620.0	612.0	615.9	627.6	30- 40	420.1	1058	36.7, 36.7
50	532.6	543.1	544.1	534.4	521.9	511.6	513.0	523.1	40- 50	448.5	1506	52.2, 52.2
60	410.3	422.1	426.8	420.0	408.0	394.7	392.8	401.3	50- 60	420.7	1927	66.8, 66.8
70	276.8	290.7	299.5	294.0	284.4	269.8	264.2	269.5	60- 70	342.6	2270	78.7, 78.7
80	146.0	159.4	171.1	169.1	162.2	147.3	139.5	140.7	70- 80	229.1	2499	86.7, 86.7
90	56.36	60.85	66.45	69.11	67.19	61.95	58.20	55.03	80- 90	110.0	2609	90.5, 90.5
100	41.12	45.97	50.38	52.42	49.51	51.20	48.74	44.76	90-100	58.85	2668	92.5, 92.5
110	39.22	41.78	47.34	49.17	48.10	48.48	46.88	42.07	100-110	48.58	2716	94.2, 94.2
120	38.86	40.66	45.63	46.84	46.39	46.12	45.07	40.79	110-120	44.22	2760	95.7, 95.7
130	38.14	39.60	43.17	44.33	43.81	43.59	42.51	39.53	120-130	38.47	2799	97.1, 97.1
140	36.94	38.21	40.48	41.68	40.75	40.46	39.55	37.56	130-140	31.56	2830	98.2, 98.2
150	36.28	36.85	38.19	39.15	38.05	37.67	37.07	35.94	140-150	24.16	2854	99, 99
160	35.24	35.07	35.67	36.06	35.37	34.56	34.39	34.32	150-160	16.82	2871	99.6, 99.6
170	27.29	27.10	27.80	28.28	27.96	27.42	26.65	26.64	160-170	9.001	2880	99.9, 99.9
180	30.91	31.13	31.35	30.91	30.93	31.09	31.37	30.97	170-180	2.523	2883	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1282 lm

%lum = 44.5%

%lamp = 44.5%

Conical surface Flux(120deg): 1927 lm

%lum = 66.8%

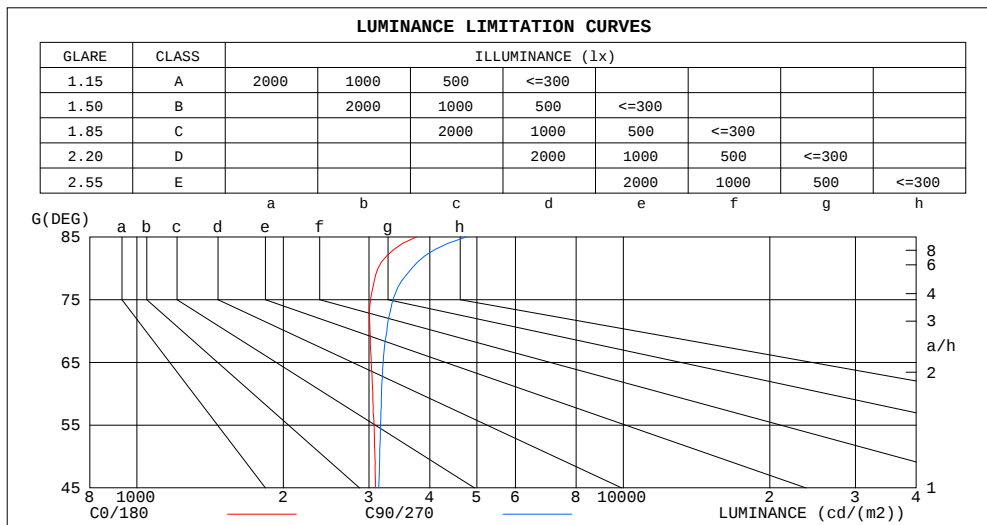
%lamp = 66.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2024-10-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity: 45%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME:ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	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	3755	4757
80	3131	3674
75	3023	3360
70	3014	3265
65	3033	3208
60	3055	3183
55	3073	3168
50	3085	3157
45	3094	3143

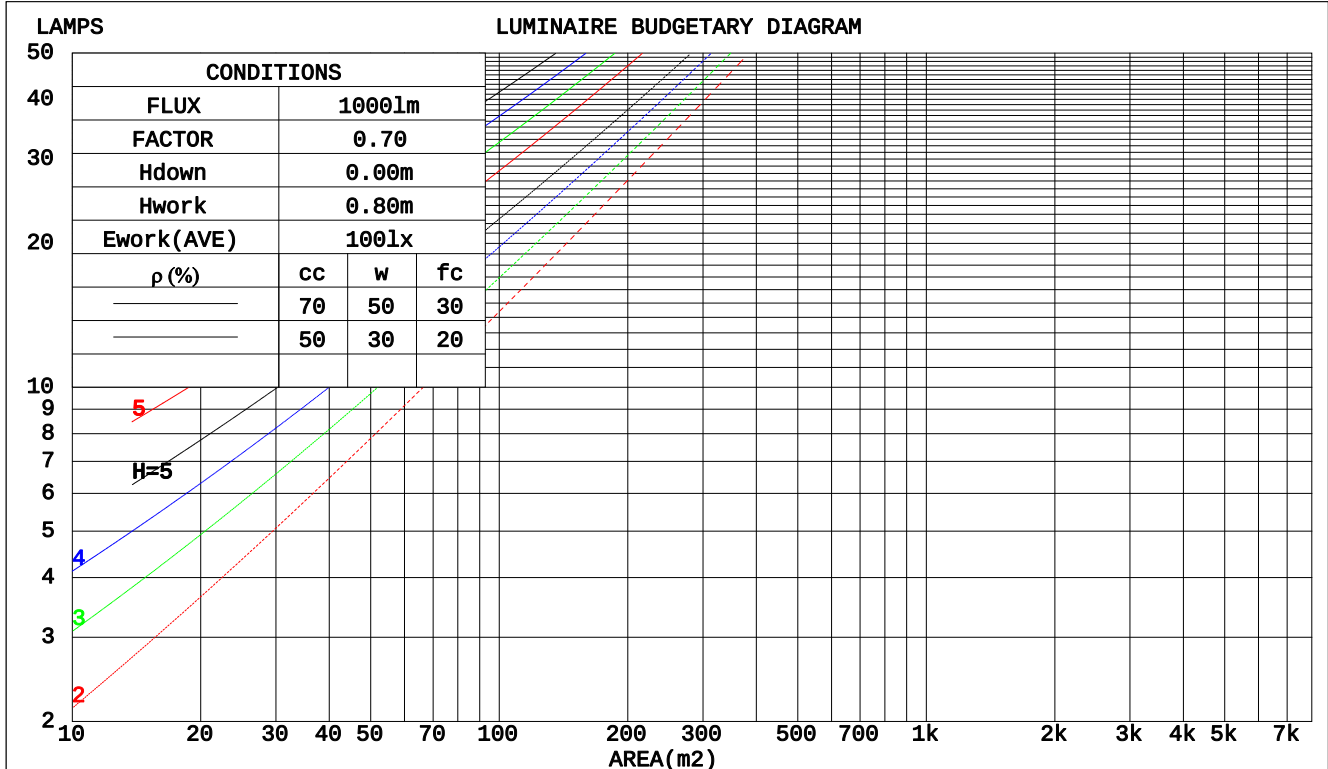
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-10-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME: ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.90
1.0	1.00	.95	.91	.97	.93	.89	.91	.87	.84	.85	.83	.80	.80	.78	.76	.73
2.0	.87	.79	.73	.84	.77	.72	.79	.73	.68	.74	.69	.65	.70	.66	.63	.60
3.0	.75	.67	.60	.73	.65	.59	.69	.62	.57	.65	.59	.55	.61	.56	.52	.50
4.0	.67	.57	.51	.65	.56	.50	.61	.54	.48	.57	.51	.46	.54	.49	.45	.42
5.0	.59	.50	.43	.58	.49	.43	.54	.47	.41	.51	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.37	.52	.43	.37	.49	.41	.36	.46	.40	.35	.44	.38	.34	.31
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.32	.42	.36	.31	.40	.34	.30	.28
8.0	.44	.35	.29	.43	.34	.29	.40	.33	.28	.38	.32	.27	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.35	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.24	.36	.28	.23	.34	.27	.23	.33	.27	.22	.31	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-10-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm					
NAME: ASD-LOFT-FM-20D42SM-RGBW-BK			TYPE: N/A		WEIGHT: N/A
SPEC.: 6500K			DIM.: N/A		SERIAL No.: N/A
MFR.: ASD Lighting Corp			SUR.: N/A		Shielding Angle: N/A

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.338	.192	.061	.328	.187	.059	.309	.177	.057	.292	.168	.054	.276	.160	.052	
2.0	.307	.168	.052	.298	.164	.051	.282	.157	.049	.266	.149	.047	.252	.142	.045	
3.0	.280	.149	.045	.272	.146	.044	.257	.139	.042	.243	.133	.041	.230	.127	.039	
4.0	.256	.133	.039	.249	.130	.038	.235	.125	.037	.222	.119	.036	.211	.114	.035	
5.0	.235	.120	.035	.228	.117	.034	.216	.113	.033	.205	.108	.032	.194	.104	.031	
6.0	.217	.109	.031	.211	.107	.031	.200	.102	.030	.189	.098	.029	.180	.095	.028	
7.0	.201	.099	.028	.196	.098	.028	.186	.094	.027	.176	.090	.026	.167	.087	.026	
8.0	.187	.091	.026	.182	.090	.025	.173	.087	.025	.165	.083	.024	.156	.080	.023	
9.0	.175	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.147	.075	.022	
10.0	.164	.079	.022	.160	.077	.022	.153	.075	.021	.145	.072	.021	.138	.070	.020	

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.263	.263	.263	.225	.225	.225	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.255	.229	.205	.218	.196	.177	.149	.135	.122	.086	.078	.071	.028	.025	.023	
2.0	.248	.205	.170	.212	.177	.147	.145	.122	.102	.084	.071	.060	.027	.023	.020	
3.0	.240	.188	.147	.206	.162	.127	.141	.113	.089	.082	.066	.053	.026	.021	.017	
4.0	.233	.175	.132	.200	.152	.114	.137	.106	.081	.079	.062	.048	.026	.020	.016	
5.0	.225	.165	.121	.193	.143	.105	.133	.100	.074	.077	.059	.044	.025	.019	.015	
6.0	.218	.157	.113	.187	.136	.099	.129	.095	.070	.075	.056	.042	.024	.018	.014	
7.0	.211	.150	.108	.182	.130	.094	.126	.091	.067	.073	.054	.040	.024	.018	.013	
8.0	.205	.145	.104	.176	.126	.090	.122	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.199	.140	.100	.171	.121	.087	.119	.085	.062	.069	.050	.037	.022	.017	.012	
10.0	.193	.136	.098	.166	.118	.085	.115	.083	.061	.067	.049	.036	.022	.016	.012	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-10-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm										
NAME: ASD-LOFT-FM-20D42SM-RGBW-BK					TYPE: N/A			WEIGHT: N/A		
SPEC.: 6500K					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	12.7	14.1	13.1	14.5	14.9	12.8	14.3	13.2	14.6	15.0
3H	14.4	15.7	14.8	16.1	16.6	14.7	16.0	15.1	16.4	16.8
4H	15.2	16.4	15.6	16.8	17.3	15.5	16.8	16.0	17.2	17.6
6H	15.8	17.0	16.3	17.4	17.9	16.3	17.5	16.7	17.9	18.4
8H	16.1	17.2	16.6	17.7	18.2	16.6	17.8	17.1	18.2	18.7
12H	16.4	17.4	16.8	17.9	18.4	17.0	18.1	17.5	18.5	19.0
4H 2H	13.4	14.6	13.8	15.0	15.5	13.5	14.7	13.9	15.1	15.6
3H	15.3	16.4	15.8	16.8	17.3	15.5	16.6	16.0	17.1	17.6
4H	16.2	17.2	16.7	17.7	18.2	16.5	17.5	17.0	18.0	18.5
6H	17.0	17.9	17.5	18.4	19.0	17.4	18.3	18.0	18.8	19.4
8H	17.4	18.2	17.9	18.7	19.3	17.8	18.7	18.4	19.2	19.8
12H	17.7	18.4	18.2	19.0	19.6	18.3	19.0	18.8	19.6	20.2
8H 4H	16.6	17.4	17.1	17.9	18.5	16.8	17.6	17.4	18.2	18.8
6H	17.6	18.3	18.2	18.8	19.5	18.0	18.7	18.5	19.2	19.8
8H	18.1	18.7	18.7	19.3	19.9	18.5	19.2	19.1	19.7	20.4
12H	18.5	19.1	19.1	19.7	20.3	19.1	19.7	19.7	20.3	20.9
12H 4H	16.6	17.4	17.2	17.9	18.5	16.8	17.6	17.4	18.2	18.8
6H	17.7	18.3	18.3	18.9	19.6	18.1	18.7	18.7	19.3	19.9
8H	18.3	18.8	18.9	19.4	20.1	18.7	19.2	19.3	19.8	20.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 2883 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.7)
Area: 0.268411 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-10-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME: ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

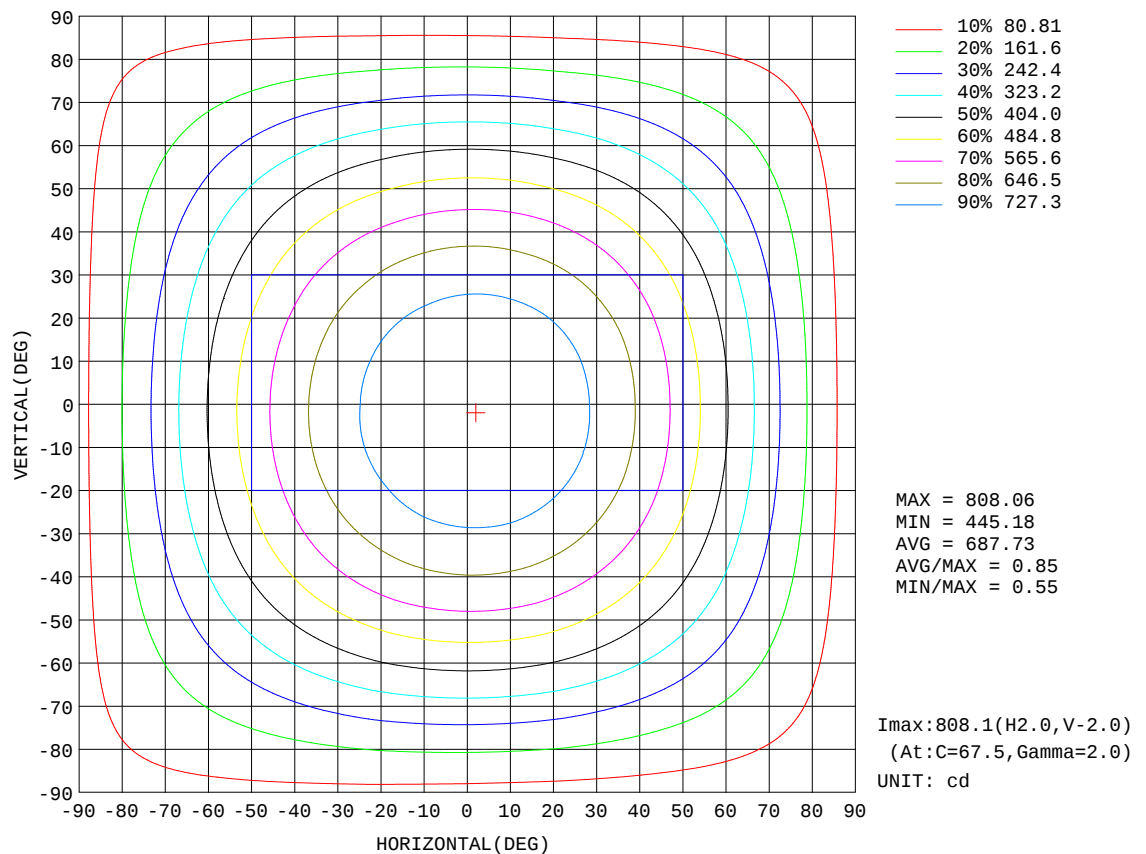
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	40	33	50	40	33	26
0.80	62	50	43	61	50	42	59	48	42	34
1.00	71	59	51	69	58	50	66	59	49	41
1.25	78	66	59	76	65	58	72	63	56	48
1.50	83	72	64	80	71	63	76	68	62	53
2.00	90	80	73	87	79	72	83	75	70	60
2.50	94	85	78	91	83	77	86	80	74	64
3.00	98	90	83	95	88	82	89	83	79	67
4.00	102	95	90	99	93	88	93	88	84	72
5.00	105	99	94	101	96	92	95	91	88	75
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:2024-10-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME: ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

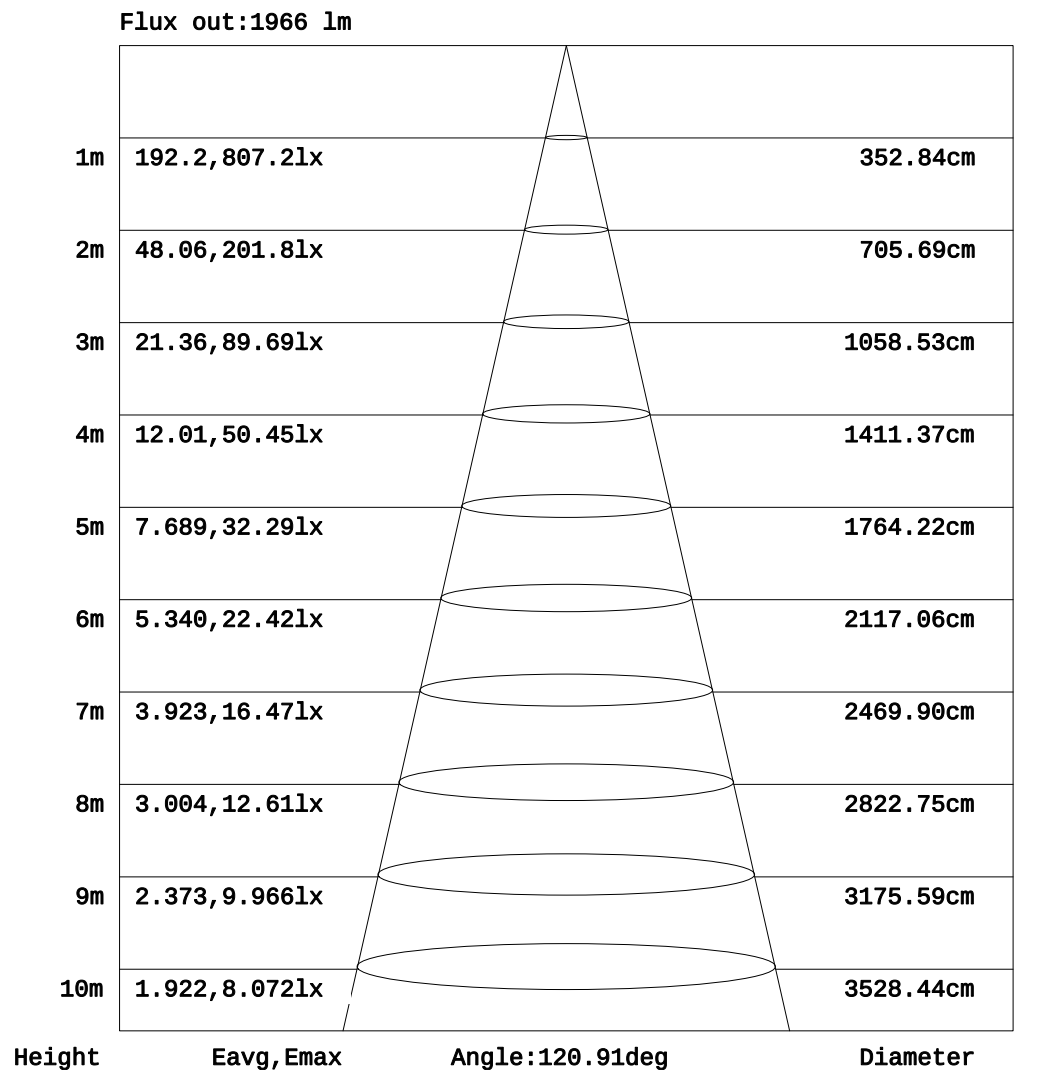


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-10-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME: ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



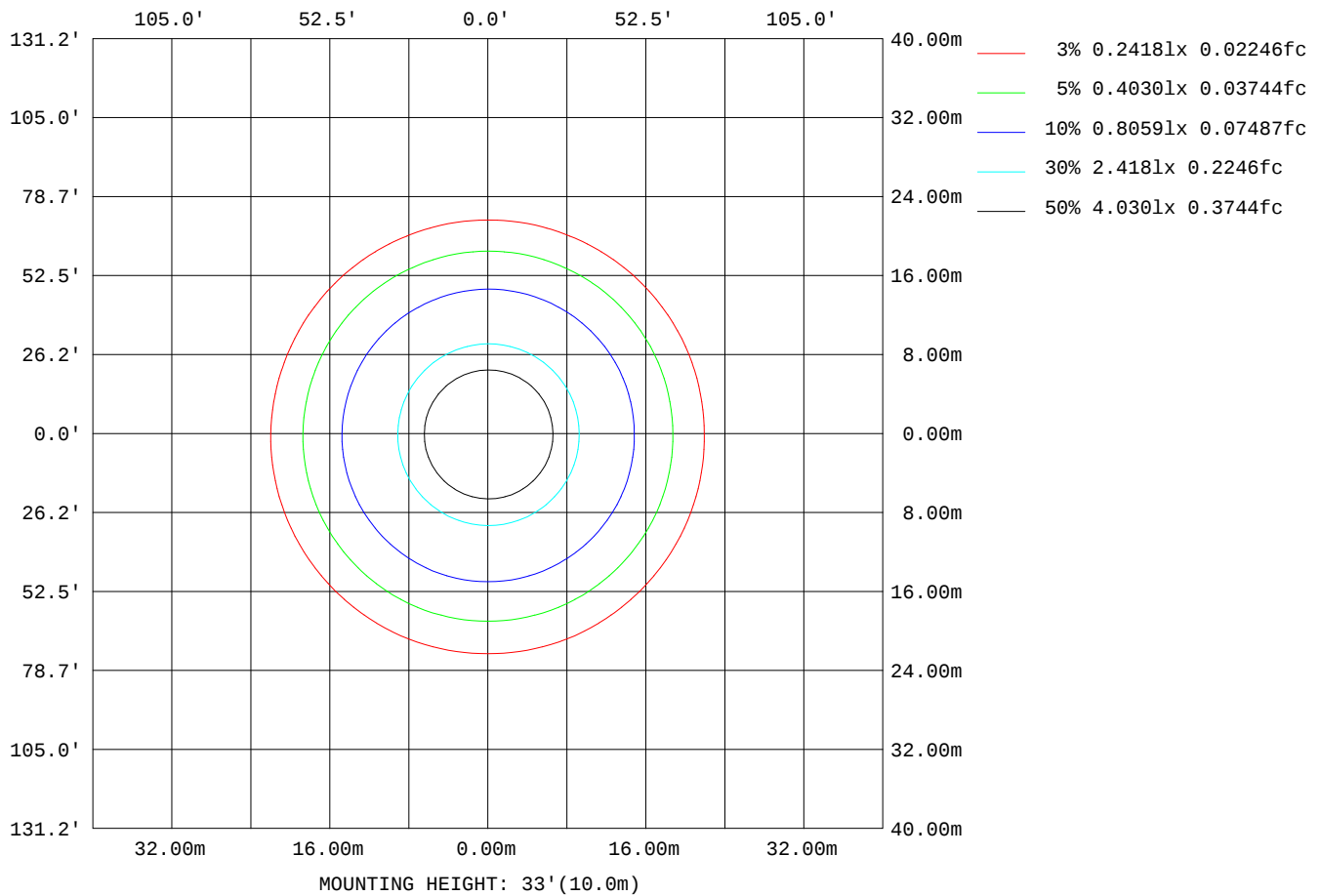
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-10-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME:ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	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:2024-10-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:45%
Test Distance:2.519m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME:ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

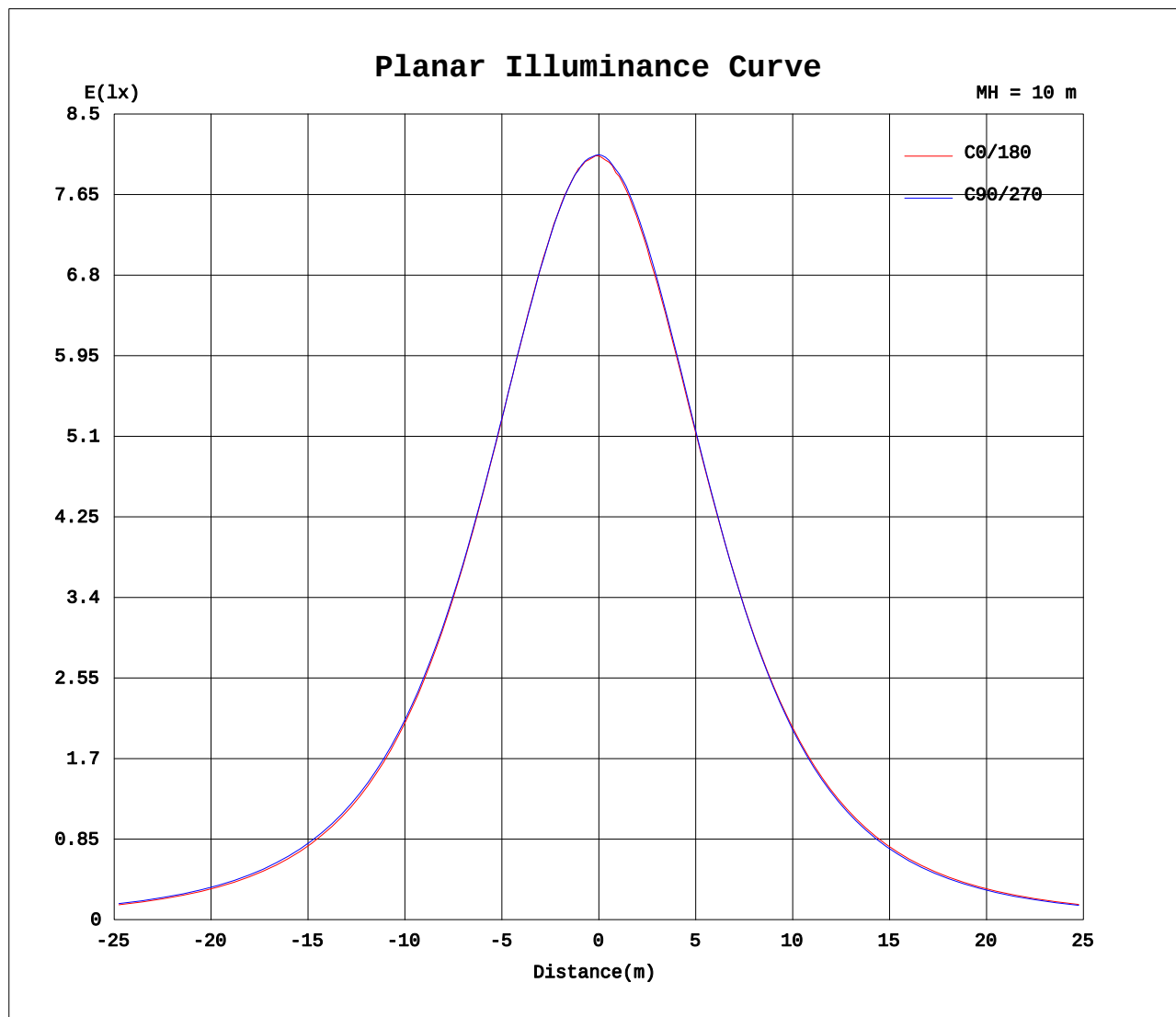
AvgL	cd/m2
L_0~180(65)av	3046
L_0~180(75)av	3110
L_0~180(85)av	4157
L_90~270(65)av	3051
L_90~270(75)av	3117
L_90~270(85)av	4186
L_45(65)av	3052
L_45(75)av	3109
L_45(85)av	4145

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-10-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity:45%
 Test Distance:2.519m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Water
Test Date: 2024-10-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 45%
Test Distance: 2.519m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.01V I:0.4251A P:43.530W PF:0.8533 Freq:60.00Hz Lamp Flux:2882.83x1 lm		
NAME:ASD-LOFT-FM-20D42SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	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	806	806	806	806	806	806	806	806	806	806	806	806	806	806	806	806			
5	805	807	807	808	805	804	802	802	798	800	799	802	800	803	804	806			
10	800	802	801	802	798	797	792	791	788	788	788	790	791	794	796	800			
15	788	792	792	791	786	783	777	775	771	772	772	775	776	779	783	788			
20	772	774	774	774	769	766	759	756	752	751	751	753	755	760	764	771			
25	748	752	752	752	747	742	735	732	727	725	725	727	729	734	740	746			
30	718	722	722	723	718	714	707	701	697	694	693	695	698	702	709	715			
35	680	686	688	689	682	679	671	667	662	657	655	656	659	664	672	678			
40	637	643	645	647	643	639	631	626	620	615	612	613	616	620	628	634			
45	588	594	596	601	596	592	585	580	574	567	565	564	566	572	579	585			
50	533	539	543	547	544	542	534	529	522	516	512	511	513	515	523	530			
55	473	480	485	490	487	485	479	473	467	459	455	453	454	457	464	471			
60	410	418	422	427	427	427	420	414	408	400	395	391	393	395	401	408			
65	344	352	358	364	364	363	358	352	347	338	333	329	329	330	336	342			
70	277	285	291	298	299	299	294	290	284	275	270	265	264	264	270	275			
75	210	218	224	232	233	235	230	226	222	213	207	202	200	200	204	208			
80	146	154	159	168	171	173	169	166	162	153	147	141	139	138	141	144			
85	87.9	93.1	99.4	107	111	113	112	109	107	98.4	92.2	87.3	84.7	82.9	84.2	86.6			
90	56.4	56.3	60.9	63.2	66.4	68.7	69.1	68.4	67.2	64.6	62.0	61.2	58.2	58.0	55.0	56.6			
95	46.7	49.4	51.8	54.4	56.0	57.6	58.8	59.0	57.0	57.0	56.7	55.2	53.4	51.4	50.1	48.0			
100	41.1	41.8	46.0	48.6	50.4	51.7	52.4	50.5	49.5	48.7	51.2	50.4	48.7	46.7	44.8	41.6			
105	39.2	38.5	42.2	45.5	47.8	49.7	50.3	48.1	48.7	47.5	49.6	49.2	47.6	45.4	42.6	39.2			
110	39.2	38.8	41.8	45.0	47.3	48.8	49.2	47.7	48.1	47.0	48.5	48.4	46.9	44.9	42.1	39.4			
115	39.1	39.0	41.2	44.4	46.7	48.0	48.0	47.1	47.2	46.6	47.3	47.5	46.2	44.1	41.5	39.2			
120	38.9	38.9	40.7	43.6	45.6	46.9	46.8	46.2	46.4	45.7	46.1	46.5	45.1	43.4	40.8	39.1			
125	38.6	38.6	40.1	42.8	44.4	45.8	45.6	45.1	45.1	44.6	44.9	45.2	43.9	42.5	40.2	38.6			
130	38.1	38.3	39.6	41.8	43.2	44.5	44.3	43.9	43.8	43.3	43.6	43.8	42.5	41.4	39.5	38.0			
135	37.6	37.7	39.0	40.8	41.9	43.1	43.0	42.8	42.4	42.0	42.1	42.2	41.1	40.2	38.6	37.2			
140	36.9	37.1	38.2	39.7	40.5	41.6	41.7	41.5	40.8	40.5	40.5	40.6	39.6	38.9	37.6	36.6			
145	36.6	36.5	37.4	38.5	39.2	40.2	40.4	40.3	39.3	39.1	39.0	39.0	38.3	37.9	36.7	36.0			
150	36.3	36.2	36.8	37.5	38.2	38.9	39.2	39.0	38.1	37.6	37.7	37.6	37.1	36.9	35.9	35.4			
155	36.0	35.5	36.0	36.6	37.1	37.7	37.9	37.8	36.8	36.3	36.0	36.0	35.5	35.5	35.1	34.9			
160	35.2	35.0	35.1	35.3	35.7	35.8	36.1	35.9	35.4	35.0	34.6	34.4	34.4	34.1	34.3	33.9			
165	31.2	31.4	31.0	31.7	31.9	32.2	32.2	32.5	31.6	31.5	30.8	30.6	30.3	30.3	30.4	30.6			
170	27.3	27.3	27.1	27.6	27.8	28.1	28.3	28.2	28.0	27.7	27.4	26.8	26.6	26.6	26.6	26.9			
175	24.3	24.2	23.9	24.1	24.4	25.0	25.1	25.0	24.7	24.7	24.4	24.3	23.7	23.7	23.7	24.1			
180	30.9	31.1	31.1	31.2	31.4	31.1	30.9	31.1	30.9	31.0	31.1	31.1	31.4	31.1	31.0	31.0			

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