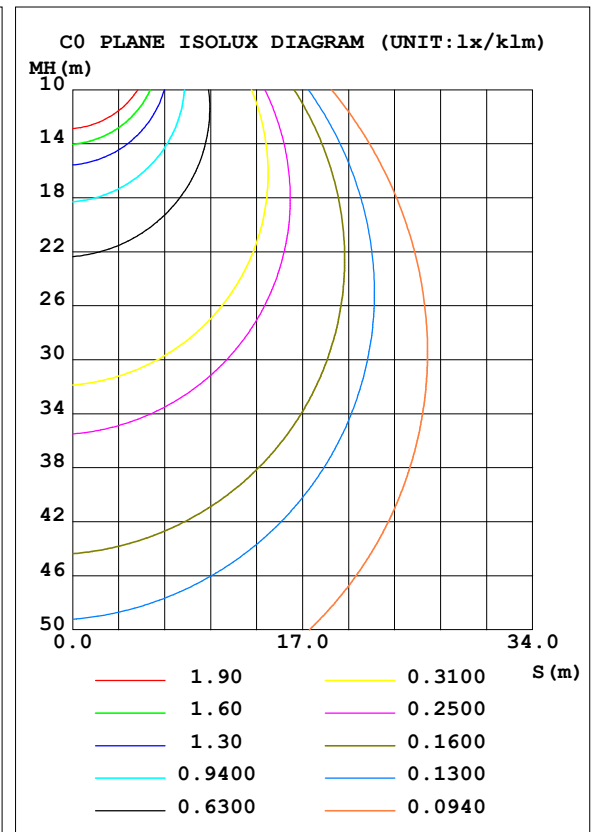
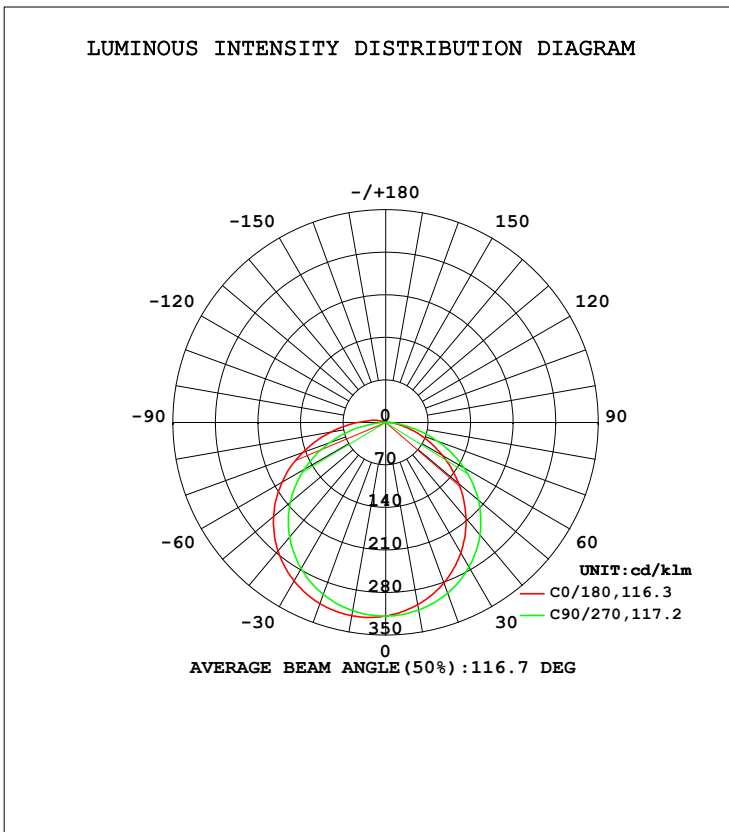


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2(mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(mm)	Shielding Angle: 120

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.42 lm/W
MODEL	SMD /LED	I <sub>max</sub> (cd/klm)	322.9	S/MH(C0/180)	1.41	
NOMINAL POWER(W)	15.3	LOR(%)	100.0	S/MH(C90/270)	1.30	
RATED VOLTAGE(V)	12	TOTAL FLUX(lm/klm)	1000.0	η UP, DN(C0-180)	1.1,47.2	
NOMINAL FLUX(lm)	1296.93	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.3,50.5	
LAMPS INSIDE	1	η up(%)	2.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	12	η down(%)	97.7	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

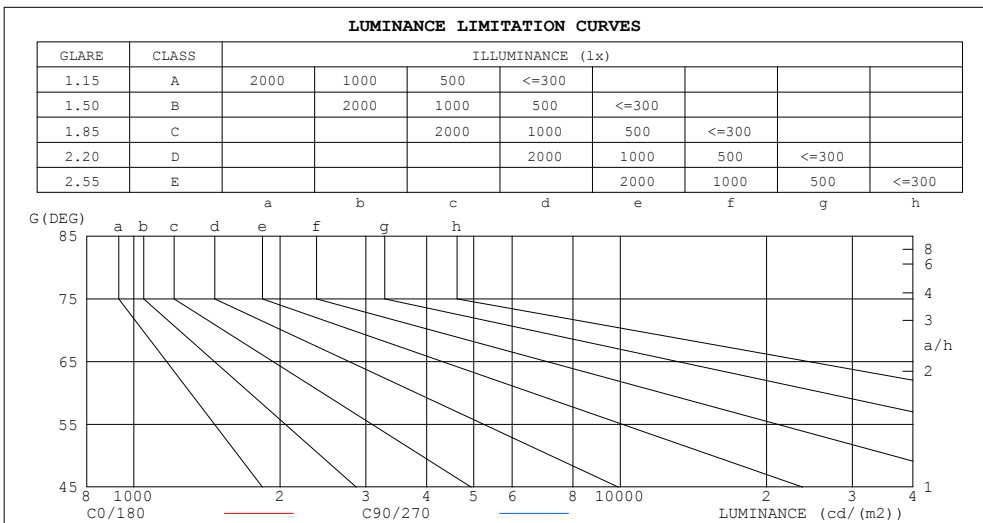
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	304.4	306.9	313.4	319.6	322.9	320.4	314.5	308.0	0- 10	30.17	30.17	3.02,3.02
20	280.6	285.7	298.7	311.1	317.1	312.5	300.9	288.0	10- 20	86.89	117.1	11.7,11.7
30	247.6	255.2	274.7	293.1	301.3	294.8	278.1	258.9	20- 30	133.0	250.1	25,25
40	205.9	215.6	241.5	265.6	275.9	267.6	246.1	220.9	30- 40	162.6	412.7	41.3,41.3
50	157.4	168.0	199.2	228.9	240.9	230.8	204.9	174.7	40- 50	171.6	584.3	58.4,58.4
60	107.2	114.9	148.7	183.5	197.3	185.3	154.7	122.2	50- 60	158.1	742.4	74.2,74.2
70	60.59	63.56	91.68	130.7	145.5	131.8	98.47	69.88	60- 70	124.3	866.7	86.7,86.7
80	23.05	23.59	35.37	74.45	91.63	76.15	39.91	25.69	70- 80	77.42	944.1	94.4,94.4
90	5.272	4.610	1.096	29.70	45.91	30.77	0.6086	3.732	80- 90	32.75	976.9	97.7,97.7
100	2.999	2.164	0.9556	9.882	21.92	10.26	0.7134	1.852	90-100	10.97	987.8	98.8,98.8
110	2.170	1.569	1.328	1.333	6.349	1.128	1.059	1.454	100-110	4.035	991.9	99.2,99.2
120	2.039	1.748	1.669	1.427	1.052	1.078	1.426	1.655	110-120	1.592	993.5	99.3,99.3
130	2.215	2.066	1.986	1.754	1.311	1.441	1.775	1.900	120-130	1.485	994.9	99.5,99.5
140	2.379	2.320	2.250	2.046	1.663	1.794	2.089	2.182	130-140	1.512	996.5	99.6,99.6
150	2.592	2.505	2.472	2.310	2.025	2.096	2.359	2.422	140-150	1.396	997.8	99.8,99.8
160	2.753	2.636	2.649	2.524	2.350	2.409	2.570	2.602	150-160	1.139	999.0	99.9,99.9
170	2.826	2.780	2.749	2.685	2.638	2.660	2.734	2.741	160-170	0.7508	999.7	100,100
180	2.815	2.818	2.810	2.795	2.807	2.799	2.831	2.795	170-180	0.2636	1000	100,100
DEG	LUMINOUS INTENSITY:cd/klm									UNIT:lm/klm		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**LUMINANCE LIMITATION CURVES**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD.: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2 (mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (mm)	Shielding Angle: 120



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	159890	211235
80	170210	269579
75	198802	318979
70	227199	354788
65	252326	377848
60	275073	393496
55	295172	403513
50	314019	410255
45	330401	414505

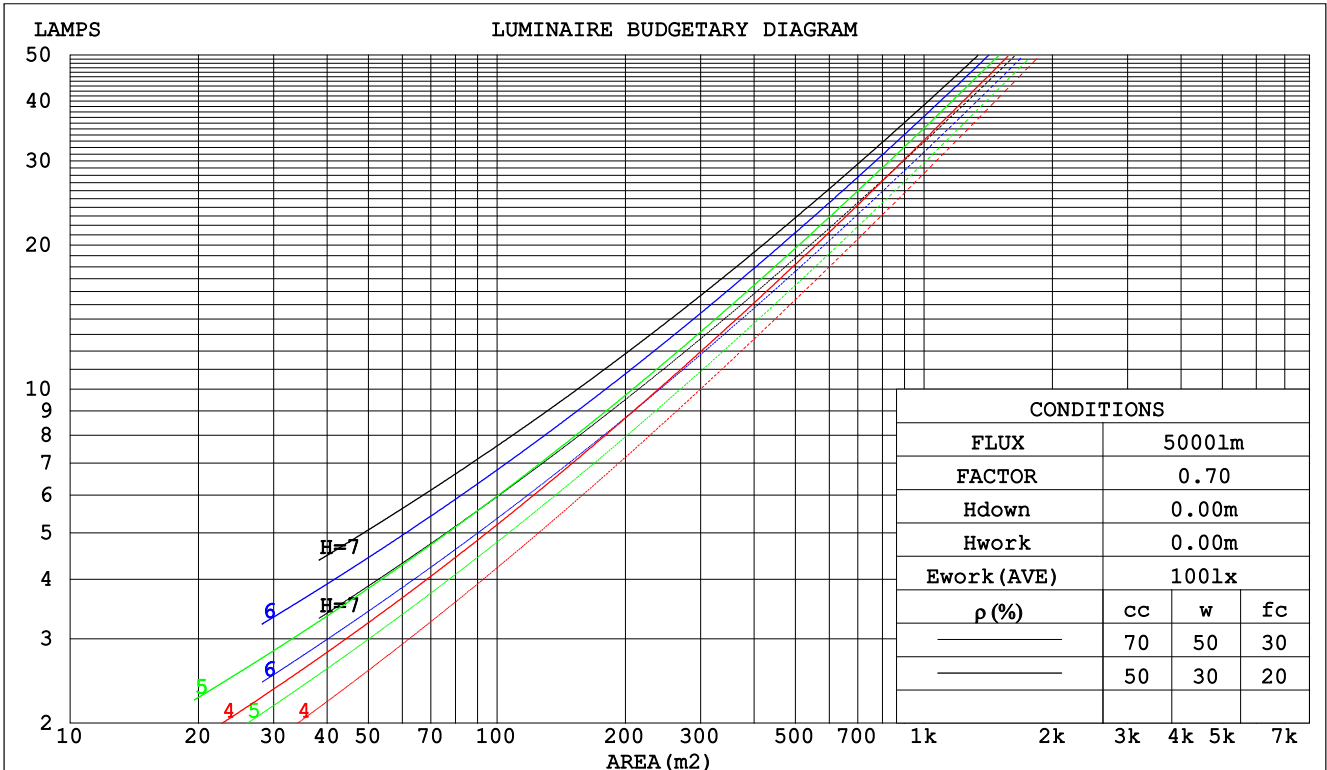
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2(mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(mm)	Shielding Angle: 120

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															
	Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.02	.98	.94	.00	.96	.92	.95	.92	.88	.91	.88	.85	.87	.84	.82	.80
2.0	.89	.81	.75	.87	.80	.74	.83	.77	.72	.79	.74	.70	.76	.72	.68	.66
3.0	.78	.69	.62	.76	.68	.62	.72	.66	.60	.69	.64	.59	.66	.62	.58	.55
4.0	.68	.59	.53	.67	.59	.52	.64	.57	.51	.62	.55	.50	.59	.54	.49	.47
5.0	.61	.52	.45	.60	.51	.45	.57	.50	.44	.55	.48	.43	.53	.47	.43	.40
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.50	.41	.34	.49	.40	.34	.47	.39	.34	.45	.38	.33	.44	.38	.33	.31
8.0	.45	.37	.31	.44	.36	.30	.43	.35	.30	.41	.35	.30	.40	.34	.29	.28
9.0	.41	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.36	.29	.25	.35	.29	.24	.34	.28	.24	.22



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

WEC AND CCEC

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2(mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(mm)	Shielding Angle: 120

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.330	.188	.059	.322	.184	.058	.307	.176	.056	.294	.169	.054	.281	.163	.053	
2.0	.304	.166	.051	.297	.163	.050	.284	.158	.049	.272	.152	.048	.261	.147	.046	
3.0	.278	.148	.044	.272	.146	.044	.260	.141	.043	.250	.137	.042	.240	.133	.041	
4.0	.255	.133	.039	.250	.131	.039	.239	.127	.038	.230	.123	.037	.221	.120	.037	
5.0	.235	.120	.035	.230	.118	.034	.221	.115	.034	.212	.112	.033	.204	.109	.033	
6.0	.217	.109	.031	.213	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030	
7.0	.202	.100	.028	.198	.098	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.188	.092	.026	.184	.091	.026	.178	.089	.025	.171	.087	.025	.166	.085	.025	
9.0	.176	.085	.024	.173	.084	.024	.167	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.075	.021	.147	.074	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.199	.174	.151	.171	.149	.130	.117	.103	.090	.067	.059	.052	.022	.019	.017	
2.0	.192	.150	.114	.164	.129	.099	.113	.089	.069	.065	.052	.040	.021	.017	.013	
3.0	.184	.132	.091	.158	.114	.079	.108	.079	.055	.063	.046	.033	.020	.015	.011	
4.0	.176	.119	.076	.151	.103	.066	.104	.072	.046	.060	.042	.027	.019	.014	.009	
5.0	.169	.109	.065	.145	.094	.056	.100	.066	.040	.058	.039	.024	.019	.013	.008	
6.0	.162	.101	.057	.139	.087	.049	.096	.061	.035	.056	.036	.021	.018	.012	.007	
7.0	.155	.094	.051	.133	.081	.045	.092	.057	.032	.053	.034	.019	.017	.011	.006	
8.0	.148	.088	.047	.128	.076	.041	.088	.054	.029	.051	.032	.017	.017	.010	.006	
9.0	.142	.083	.043	.122	.072	.038	.085	.051	.027	.049	.030	.016	.016	.010	.005	
10.0	.136	.079	.041	.117	.068	.035	.081	.048	.025	.048	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**UGR(Unified Glare Rating) Table**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2(mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(mm)	Shielding Angle: 120

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	30.7	32.2	31.0	32.4	32.7	31.6	33.1	31.9	33.4	33.6
3H	31.8	33.2	32.2	33.5	33.8	33.1	34.5	33.5	34.8	35.1
4H	32.3	33.6	32.6	33.9	34.2	33.7	35.1	34.1	35.4	35.7
6H	32.5	33.8	32.9	34.1	34.4	34.1	35.4	34.5	35.7	36.0
8H	32.6	33.8	33.0	34.2	34.5	34.2	35.5	34.6	35.8	36.1
12H	32.7	33.8	33.1	34.2	34.5	34.3	35.5	34.7	35.8	36.2
4H 2H	31.2	32.6	31.6	32.9	33.2	32.0	33.3	32.3	33.6	33.9
3H	32.6	33.7	33.0	34.1	34.4	33.6	34.8	34.0	35.1	35.4
4H	33.1	34.2	33.5	34.5	34.9	34.2	35.3	34.6	35.7	36.1
6H	33.5	34.4	33.9	34.8	35.2	34.7	35.7	35.2	36.1	36.5
8H	33.6	34.5	34.0	34.9	35.3	34.9	35.8	35.3	36.2	36.6
12H	33.7	34.5	34.2	34.9	35.4	35.0	35.8	35.5	36.3	36.7
8H 4H	33.3	34.2	33.7	34.6	35.0	34.3	35.2	34.8	35.6	36.1
6H	33.8	34.5	34.3	35.0	35.5	34.9	35.7	35.4	36.1	36.6
8H	34.0	34.7	34.5	35.1	35.6	35.1	35.8	35.6	36.3	36.8
12H	34.2	34.7	34.7	35.2	35.8	35.3	35.9	35.8	36.4	36.9
12H 4H	33.3	34.1	33.7	34.5	35.0	34.3	35.1	34.8	35.6	36.0
6H	33.8	34.5	34.3	35.0	35.5	34.9	35.6	35.4	36.1	36.6
8H	34.1	34.6	34.6	35.1	35.7	35.2	35.7	35.7	36.2	36.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.6 / - 0.6				

CIE Pub.117, 1297 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**UTILIZATION FACTORS TABLE**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2 (mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (mm)	Shielding Angle: 120

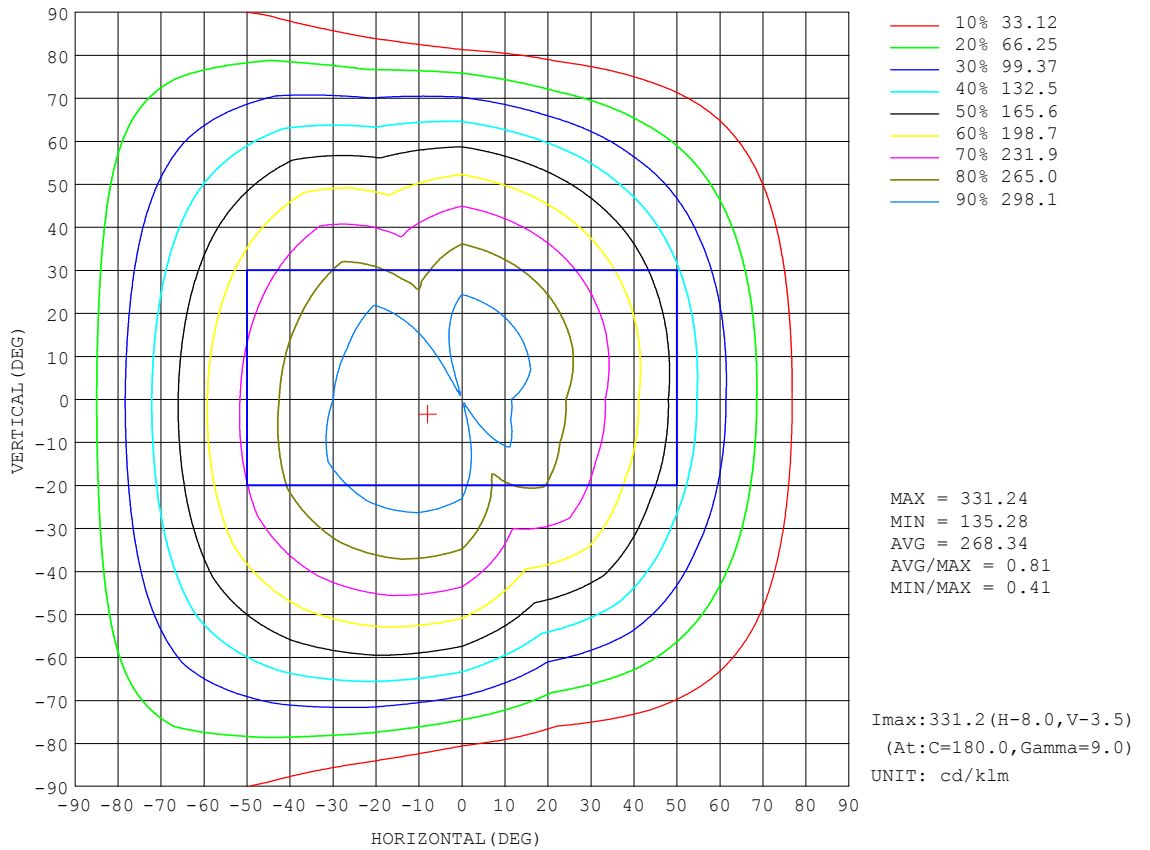
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	43	36	53	43	36	30
0.80	65	53	46	64	53	46	62	52	45	38
1.00	74	62	55	72	62	54	70	63	54	46
1.25	81	70	62	79	69	62	76	67	61	53
1.50	86	75	68	84	74	68	81	73	66	58
2.00	93	84	77	91	82	76	87	80	74	66
2.50	97	89	82	95	87	81	91	84	79	70
3.00	100	93	87	98	91	86	94	88	83	74
4.00	105	98	93	102	96	92	97	93	89	79
5.00	107	102	97	104	100	96	100	96	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHR NOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**ISOCANDELA DIAGRAM**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD.: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2 (mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (mm)	Shielding Angle: 120



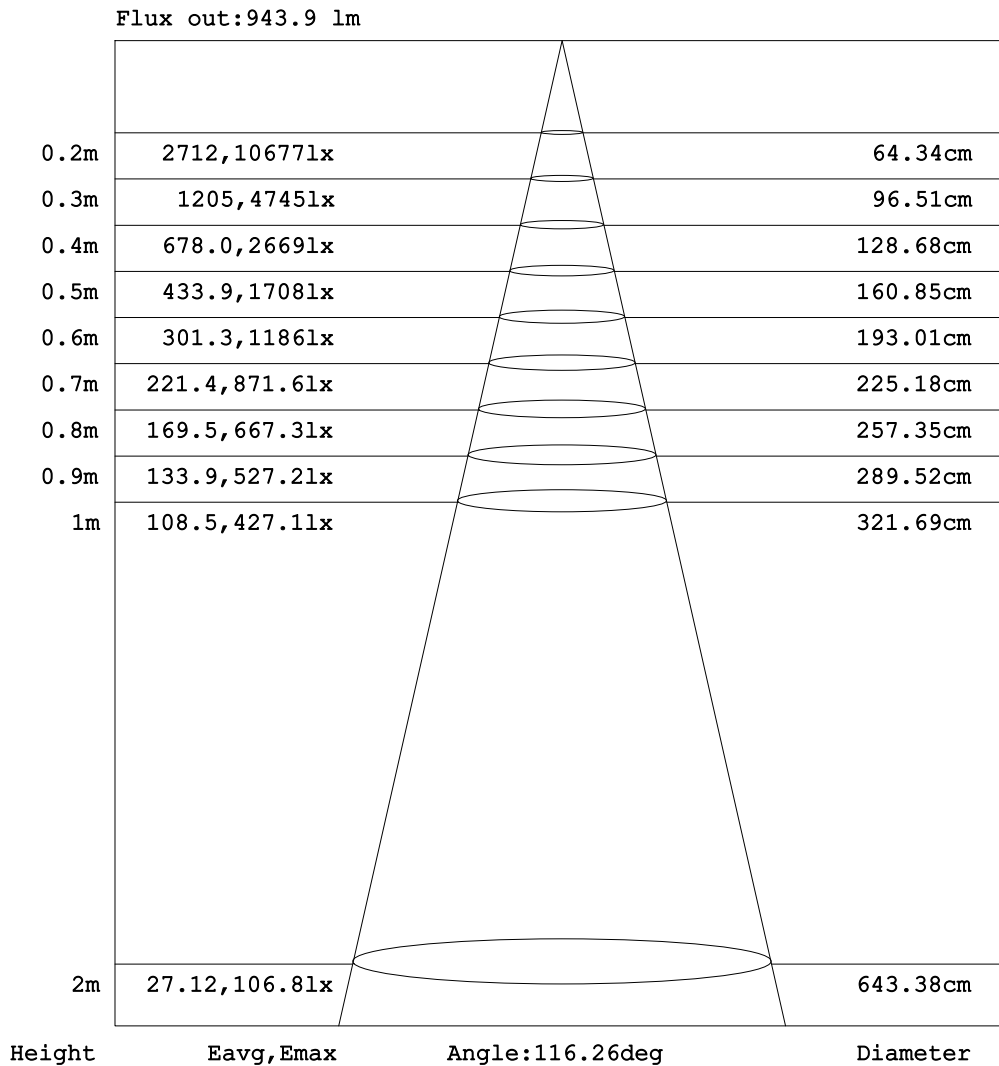
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]



**AAI Figure**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2 (mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (mm)	Shielding Angle: 120



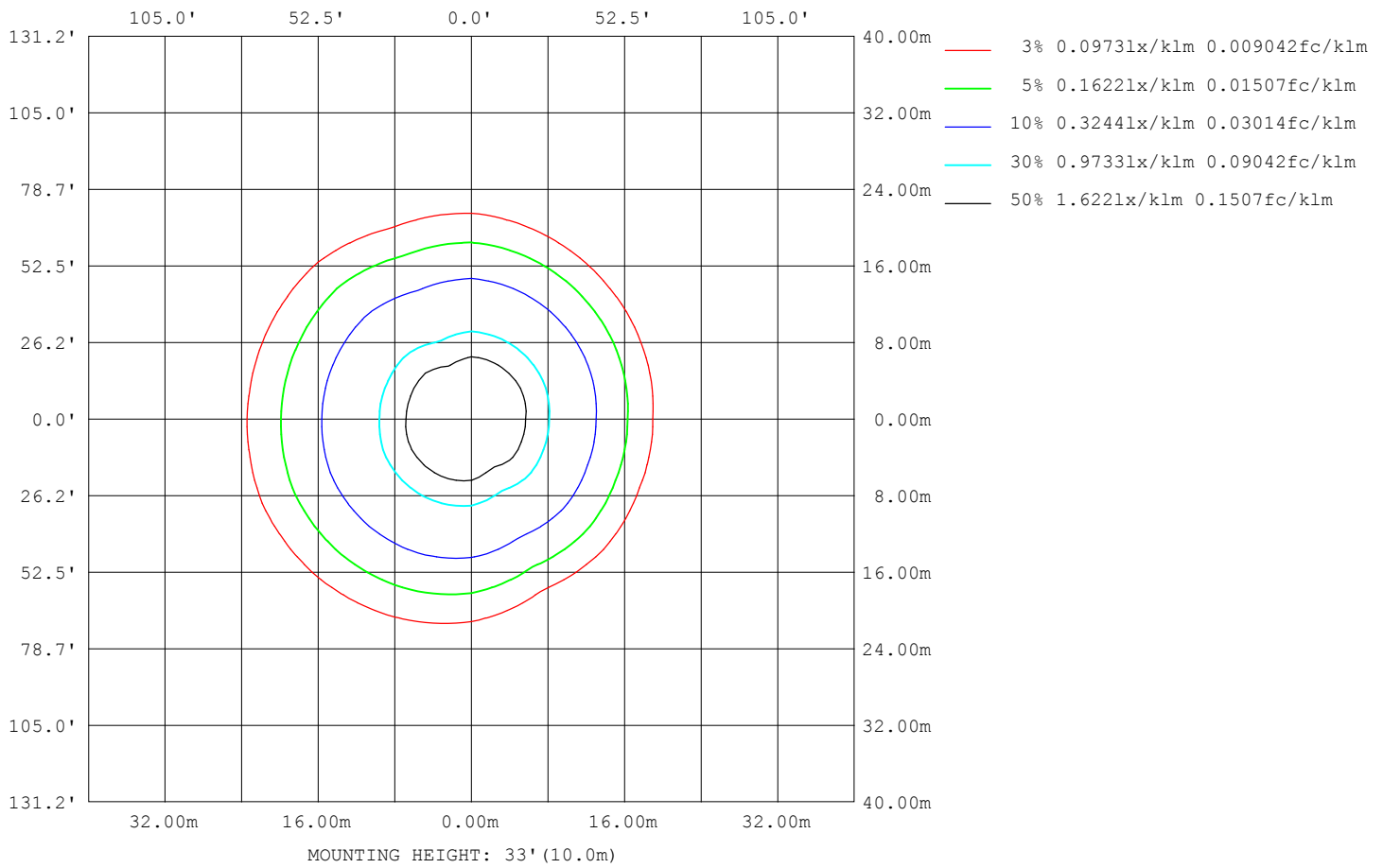
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**ISOLUX DIAGRAM**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2 (mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (mm)	Shielding Angle: 120



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**LED Avg.L Report**

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2(mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10(mm)	Shielding Angle: 120

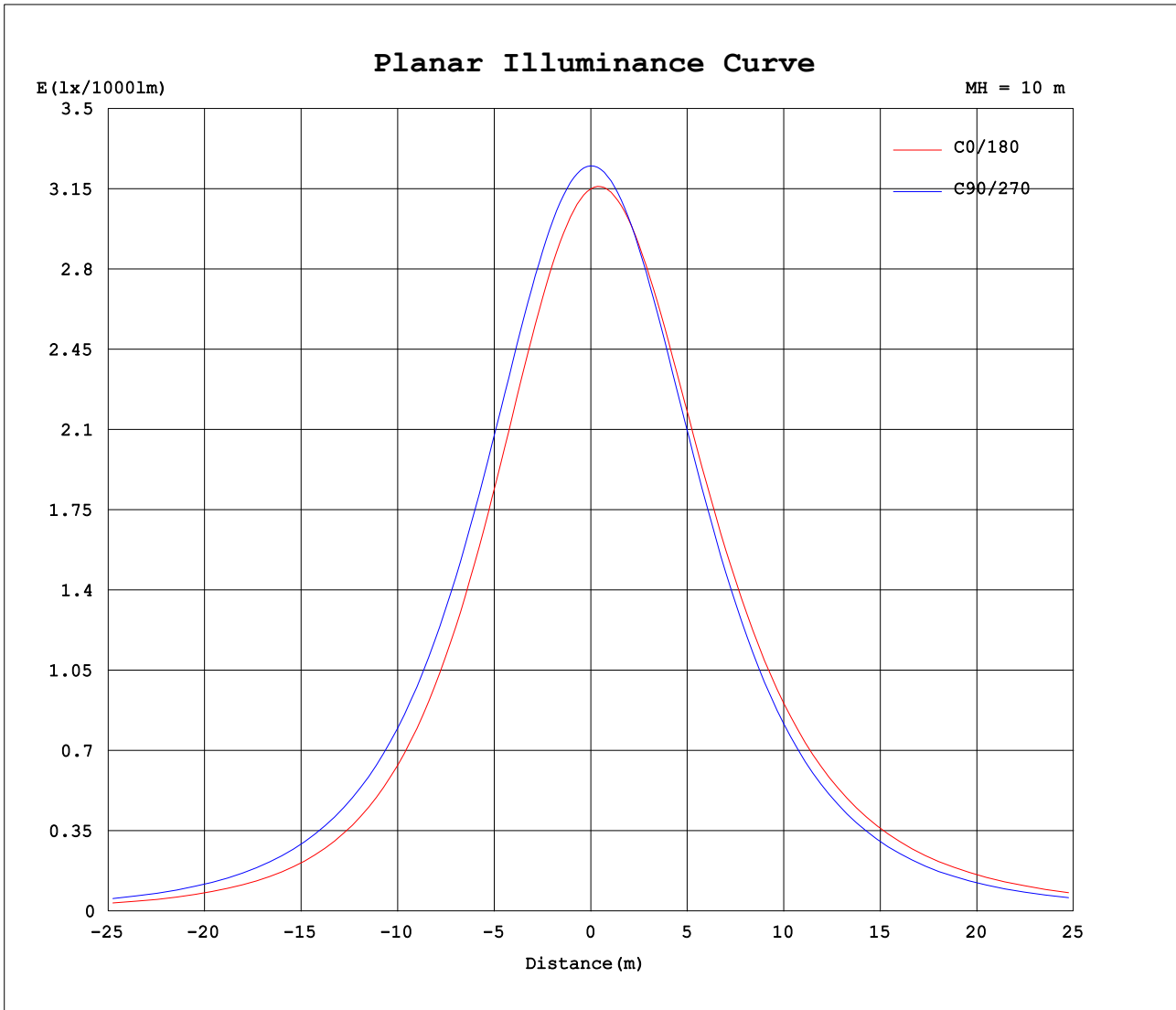
AvgL	cd/m2
L_0~180 (65) av	392277
L_0~180 (75) av	397358
L_0~180 (85) av	577741
L_90~270 (65) av	380462
L_90~270 (75) av	330195
L_90~270 (85) av	208211
L_45 (65) av	384374
L_45 (75) av	368785
L_45 (85) av	453569

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Test Date: 2017-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]

LUMINOUS DISTRIBUTION INTENSITY DATA

Test: U:12.92V I:1.280A P:15.36W PF:1.000 Freq:0Hz Lamp Flux:1296.93x1 lm		
PROD.: UB-SS-42K-12V	TYPE: LED Strip	WEIGHT: 0.01kg
SPEC.: 15.3W	DIM.: 1000*10*2 (mm)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 1000*10 (mm)	Shielding Angle: 120

Table--1

UNIT: cd/klm

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	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319			
5	313	313	314	314	317	319	320	321	322	322	321	319	318	316	314	313			
10	304	305	307	309	313	317	320	322	323	322	320	318	315	311	308	305			
15	294	295	297	302	307	312	317	320	321	320	318	314	309	304	299	295			
20	281	282	286	290	299	306	311	315	317	315	313	308	301	294	288	283			
25	265	267	272	279	288	297	303	309	310	308	305	299	291	282	275	268			
30	248	250	255	264	275	285	293	299	301	299	295	287	278	268	259	251			
35	228	230	237	247	259	271	281	287	290	287	282	273	263	251	241	232			
40	206	208	216	228	242	255	266	273	276	273	268	257	246	233	221	210			
45	182	185	193	206	221	237	248	257	260	256	250	240	227	212	199	187			
50	157	159	168	182	199	216	229	238	241	237	231	219	205	189	175	163			
55	132	133	142	156	175	193	207	217	220	216	209	200	181	164	149	137			
60	107	108	115	127	149	169	183	194	197	193	185	174	155	138	122	112			
65	83.1	83.7	88.3	99.0	121	142	158	169	173	168	159	147	127	110	95.5	87.1			
70	60.6	61.0	63.6	71.9	91.7	113	131	142	146	141	132	119	98.5	80.7	69.9	63.3			
75	40.1	40.3	41.7	46.0	62.4	84.5	103	115	118	114	104	88.9	69.4	53.5	46.2	41.7			
80	23.0	23.3	23.6	25.1	35.4	56.4	74.5	87.5	91.6	86.8	76.2	60.2	39.9	29.4	25.7	23.5			
85	10.9	11.0	10.6	10.46	13.9	31.4	49.3	62.5	66.8	61.7	51.0	35.0	14.1	11.7	10.9	10.6			
90	5.27	5.29	4.61	3.44	1.10	13.9	29.7	41.9	45.9	41.0	30.8	16.0	0.61	2.79	3.73	4.62			
95	3.71	3.68	2.98	1.72	0.77	5.26	17.6	27.9	31.5	27.4	18.2	6.42	0.55	1.27	2.17	3.02			
100	3.00	2.85	2.16	1.14	0.96	1.11	9.88	18.7	21.9	18.2	10.3	1.25	0.71	0.99	1.85	2.47			
105	2.55	2.28	1.67	1.23	1.15	1.05	3.43	10.5	14.1	10.5	3.99	0.74	0.89	1.06	1.53	2.11			
110	2.17	1.97	1.57	1.38	1.33	1.22	1.33	4.22	6.35	4.36	1.13	0.89	1.06	1.21	1.45	1.80			
115	2.04	1.88	1.58	1.55	1.50	1.40	1.29	1.67	1.88	1.34	0.95	1.10	1.24	1.35	1.53	1.71			
120	2.04	1.91	1.75	1.71	1.67	1.56	1.43	1.35	1.05	1.04	1.08	1.30	1.43	1.52	1.66	1.77			
125	2.09	1.97	1.91	1.88	1.82	1.72	1.59	1.47	1.17	1.13	1.26	1.49	1.60	1.69	1.78	1.87			
130	2.22	2.13	2.07	2.08	1.99	1.88	1.75	1.64	1.31	1.30	1.44	1.68	1.78	1.85	1.90	1.99			
135	2.30	2.27	2.21	2.13	2.13	2.03	1.91	1.80	1.48	1.49	1.62	1.85	1.94	2.00	2.04	2.08			
140	2.38	2.35	2.32	2.25	2.25	2.16	2.05	1.96	1.66	1.68	1.79	2.04	2.09	2.14	2.18	2.21			
145	2.48	2.43	2.43	2.37	2.37	2.28	2.21	2.11	1.84	1.87	1.95	2.19	2.23	2.27	2.31	2.33			
150	2.59	2.54	2.50	2.48	2.47	2.40	2.31	2.25	2.03	2.03	2.10	2.35	2.36	2.39	2.42	2.45			
155	2.69	2.65	2.56	2.58	2.57	2.50	2.43	2.38	2.19	2.19	2.26	2.48	2.47	2.50	2.52	2.56			
160	2.75	2.72	2.64	2.66	2.65	2.59	2.52	2.49	2.35	2.34	2.41	2.59	2.57	2.58	2.60	2.64			
165	2.80	2.78	2.72	2.72	2.71	2.66	2.62	2.60	2.51	2.48	2.55	2.70	2.66	2.67	2.69	2.72			
170	2.83	2.81	2.78	2.78	2.75	2.73	2.69	2.69	2.64	2.61	2.66	2.79	2.73	2.72	2.74	2.78			
175	2.83	2.81	2.82	2.82	2.78	2.76	2.75	2.75	2.73	2.70	2.74	2.84	2.79	2.77	2.78	2.81			
180	2.82	2.79	2.82	2.81	2.81	2.80	2.80	2.81	2.81	2.79	2.80	2.87	2.83	2.80	2.80	2.81			

C Range: 0 - 360DEG  
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