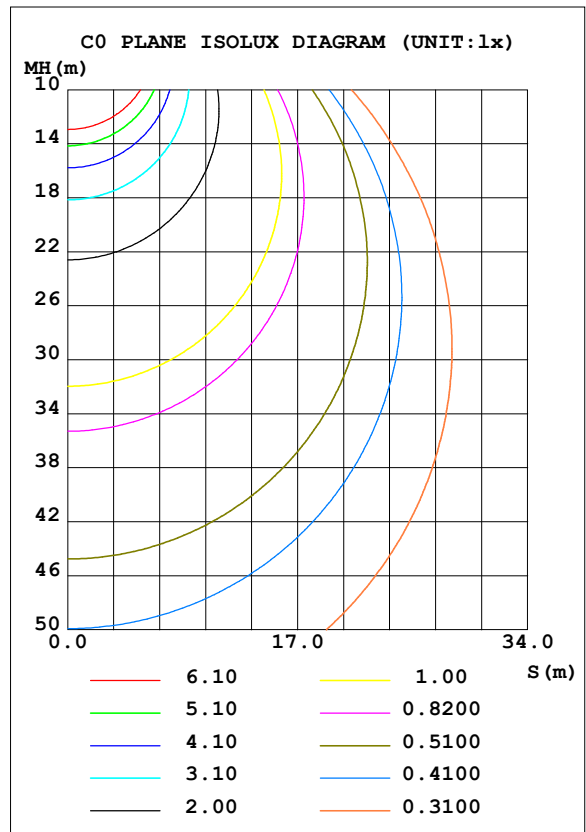
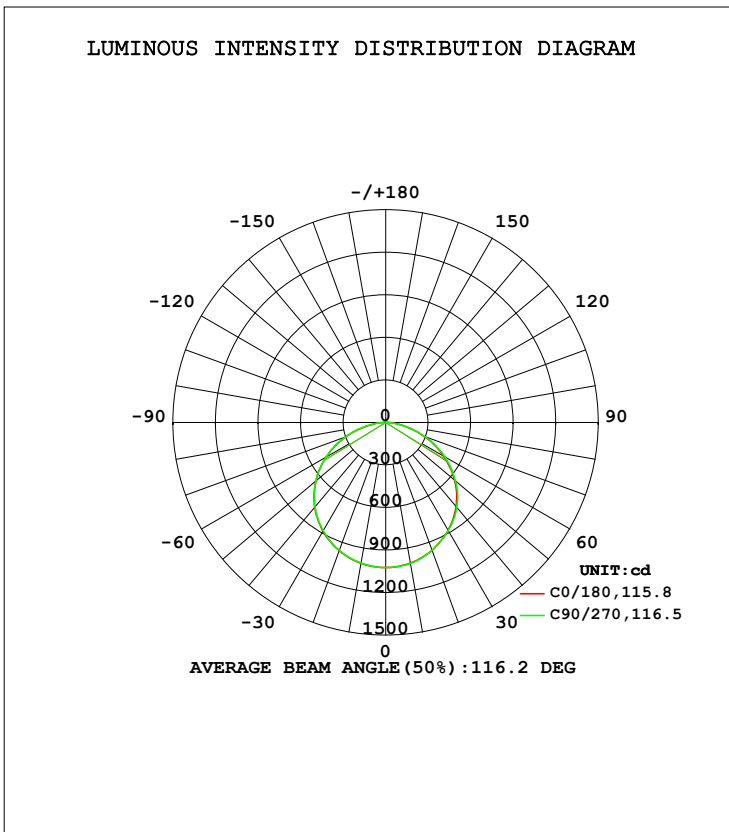


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.72 lm/W			
MODEL	SMD /LED	I <sub>max</sub> (cd)	1024	S/MH (C0/180)	1.29
NOMINAL POWER (W)	21.127	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	3078.6	η UP, DN (C0-180)	0.6, 49.4
NOMINAL FLUX (lm)	3078.58	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 49.5
LAMPS INSIDE	1	η up (%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	24	η down (%)	98.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Test Date: 2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1006	1008	1009	1010	1008	1007	1007	1007	0- 10	96.94	96.94	3.15,3.15
20	958.7	959.8	957.8	964.2	962.5	960.7	959.5	958.4	10- 20	278.9	375.9	12.2,12.2
30	880.6	878.8	882.4	886.8	885.7	884.1	882.6	880.6	20- 30	426.4	802.2	26.1,26.1
40	772.9	771.8	781.7	779.7	779.1	777.7	776.3	773.4	30- 40	521.3	1324	43,43
50	634.2	640.9	642.4	643.8	644.0	643.8	642.3	639.5	40- 50	549.7	1873	60.8,60.8
60	468.6	482.7	481.1	482.9	483.2	484.1	483.4	480.7	50- 60	504.4	2378	77.2,77.2
70	290.4	302.6	299.0	300.6	301.9	304.1	304.2	302.3	60- 70	388.5	2766	89.8,89.8
80	113.2	121.8	113.3	117.6	118.7	123.2	125.0	123.4	70- 80	220.3	2986	97,97
90	5.268	8.570	1.996	8.840	7.475	10.91	2.321	9.455	80- 90	58.28	3045	98.9,98.9
100	2.717	2.635	2.728	2.723	2.371	2.867	2.427	2.247	90-100	3.750	3048	99,99
110	3.707	3.775	4.031	3.959	3.254	3.645	3.713	3.358	100-110	3.262	3052	99.1,99.1
120	4.929	4.855	5.297	5.227	4.473	5.040	5.002	4.605	110-120	4.277	3056	99.3,99.3
130	6.112	6.222	6.464	6.429	5.733	6.330	6.236	5.817	120-130	4.983	3061	99.4,99.4
140	7.215	7.289	7.470	7.477	6.913	7.427	7.326	6.962	130-140	5.195	3066	99.6,99.6
150	8.357	8.352	8.429	8.497	8.016	8.399	8.301	8.045	140-150	4.884	3071	99.8,99.8
160	9.166	9.097	9.068	9.157	8.856	9.053	8.898	8.775	150-160	3.998	3075	99.9,99.9
170	9.685	9.566	9.463	9.570	9.542	9.591	9.415	9.396	160-170	2.621	3078	100,100
180	9.787	9.755	9.614	9.629	9.766	9.744	9.604	9.619	170-180	0.9177	3079	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1599.3 lm

%lum = 52.0%  
 %lamp = 52.0%

Conical surface Flux(120deg): 2377.6 lm

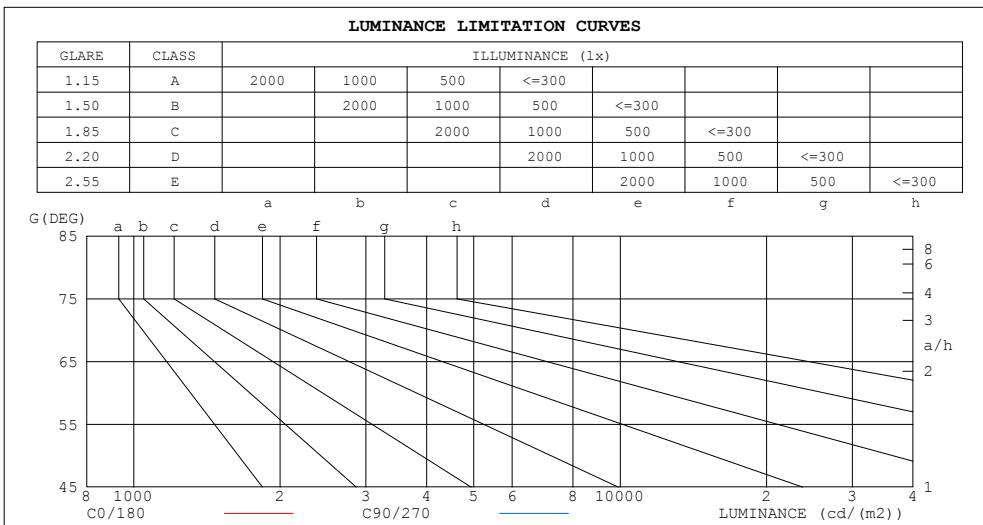
%lum = 77.2%  
 %lamp = 77.2%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (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	52415	48008
80	65068	65266
75	76512	79073
70	84756	87444
65	90140	92531
60	93553	96231
55	96587	98355
50	98492	99956
45	100010	101593

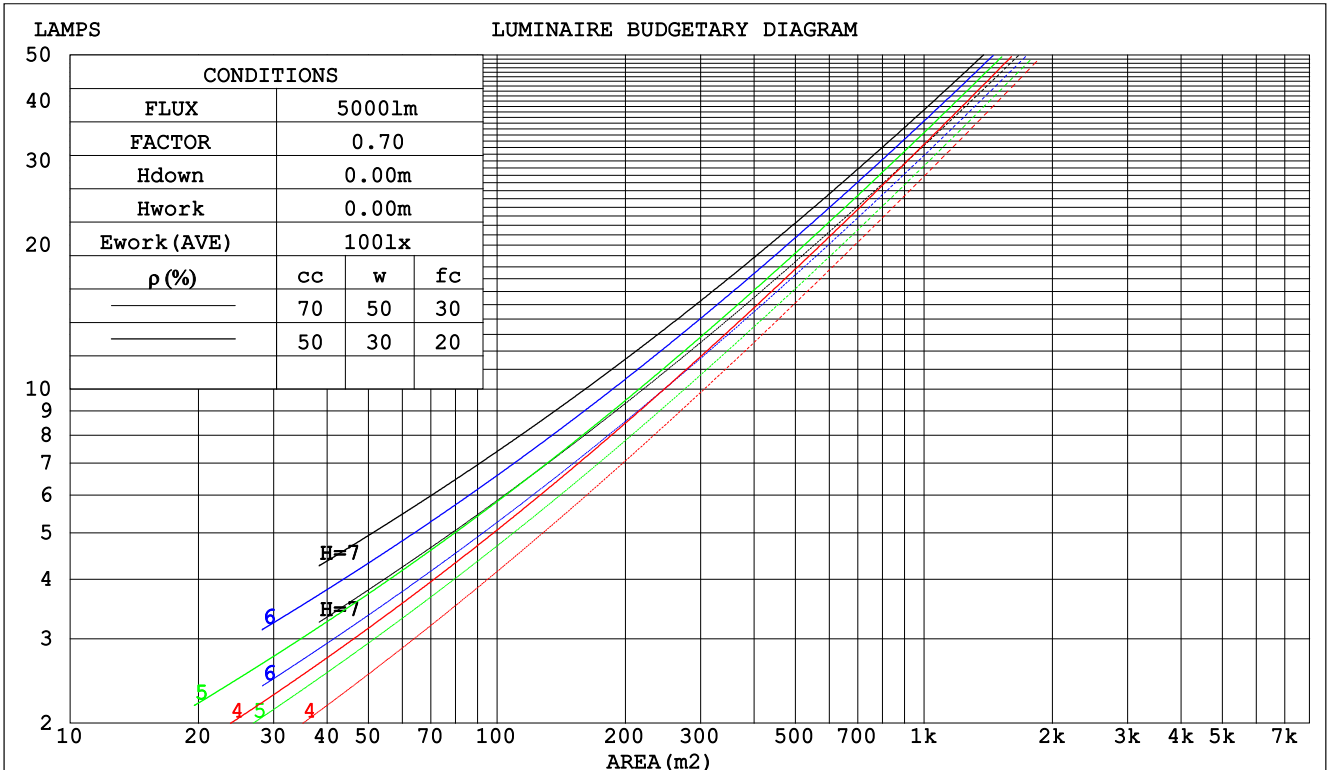
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (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%
ρfc	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	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.94	.97	.93	.90	.93	.90	.87	.89	.87	.85	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.56	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm								
NAME: UB-IS-30K90C			TYPE:LED Strip			WEIGHT:Kg		
SPEC.:21.6W			DIM.: 1000*10*4 (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	.313	.178	.056	.305	.174	.055	.291	.167	.053	.279	.161	.052	.267	.155	.050	
2.0	.294	.161	.049	.288	.158	.049	.275	.153	.048	.264	.148	.046	.254	.143	.045	
3.0	.272	.145	.043	.266	.143	.043	.256	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.111	.033	.203	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.183	.090	.026	.177	.089	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.189	.165	.143	.162	.141	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.181	.140	.106	.155	.121	.092	.106	.084	.064	.061	.049	.038	.020	.016	.012	
3.0	.173	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.166	.110	.067	.142	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.159	.099	.056	.136	.086	.048	.094	.060	.034	.054	.035	.020	.018	.011	.007	
6.0	.151	.091	.048	.130	.079	.041	.090	.055	.029	.052	.032	.017	.017	.011	.006	
7.0	.145	.084	.042	.124	.073	.036	.086	.051	.026	.050	.030	.015	.016	.010	.005	
8.0	.138	.078	.037	.119	.068	.032	.082	.048	.023	.048	.028	.014	.015	.009	.005	
9.0	.132	.073	.034	.114	.064	.029	.079	.045	.021	.046	.026	.012	.015	.009	.004	
10.0	.126	.069	.031	.109	.060	.027	.075	.042	.019	.044	.025	.011	.014	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm										
NAME: UB-IS-30K90C					TYPE:LED Strip			WEIGHT:Kg		
SPEC.:21.6W					DIM.: 1000*10*4(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	28.8	30.3	29.1	30.5	30.8	28.8	30.4	29.1	30.6	30.8
3H	30.3	31.7	30.6	32.0	32.2	30.4	31.8	30.7	32.0	32.3
4H	30.9	32.2	31.2	32.5	32.8	31.0	32.3	31.3	32.6	32.8
6H	31.3	32.5	31.6	32.8	33.1	31.3	32.6	31.7	32.9	33.2
8H	31.4	32.6	31.7	32.9	33.2	31.4	32.6	31.8	32.9	33.3
12H	31.4	32.6	31.8	32.9	33.2	31.5	32.6	31.8	32.9	33.3
4H 2H	29.4	30.8	29.8	31.0	31.3	29.5	30.8	29.8	31.1	31.3
3H	31.1	32.3	31.5	32.6	33.0	31.2	32.3	31.5	32.7	33.0
4H	31.8	32.9	32.2	33.2	33.6	31.9	32.9	32.3	33.3	33.6
6H	32.3	33.3	32.7	33.6	34.0	32.4	33.3	32.8	33.7	34.1
8H	32.5	33.4	32.9	33.7	34.2	32.5	33.4	33.0	33.8	34.2
12H	32.6	33.4	33.0	33.8	34.2	32.6	33.4	33.0	33.8	34.2
8H 4H	32.1	33.0	32.5	33.4	33.8	32.1	33.0	32.6	33.4	33.8
6H	32.7	33.5	33.2	33.9	34.3	32.8	33.5	33.2	33.9	34.4
8H	33.0	33.6	33.4	34.1	34.5	33.0	33.7	33.5	34.1	34.6
12H	33.1	33.7	33.6	34.1	34.6	33.1	33.7	33.6	34.2	34.7
12H 4H	32.1	32.9	32.6	33.3	33.8	32.1	33.0	32.6	33.4	33.8
6H	32.8	33.4	33.3	33.9	34.4	32.8	33.5	33.3	33.9	34.4
8H	33.1	33.6	33.5	34.1	34.6	33.1	33.7	33.6	34.1	34.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 3079 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.9)  
 Area: 0.01 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120

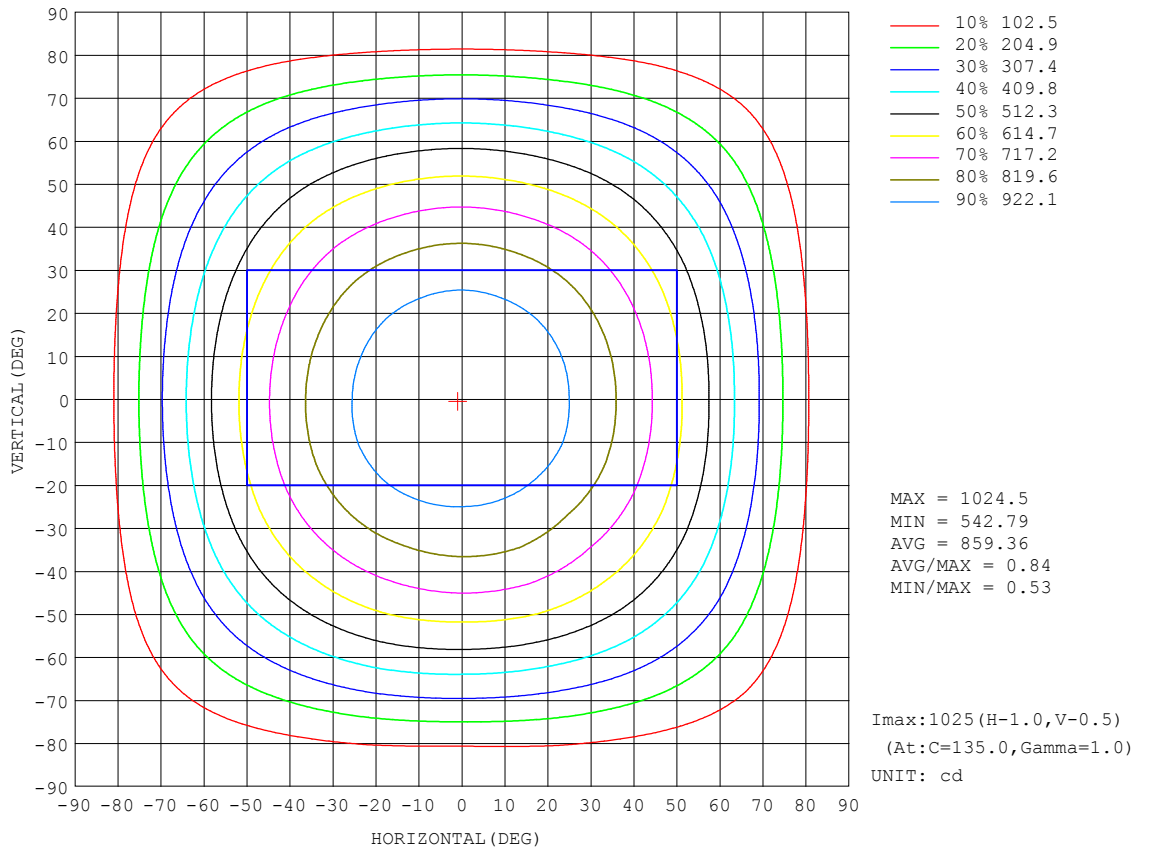
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	54	44	37	31
0.80	67	55	47	66	54	47	64	53	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	86	76	70	82	74	68	61
2.00	94	86	79	92	84	78	89	82	77	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	97	94	85
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:25.0DEG  
 Test Date:2020-6-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120



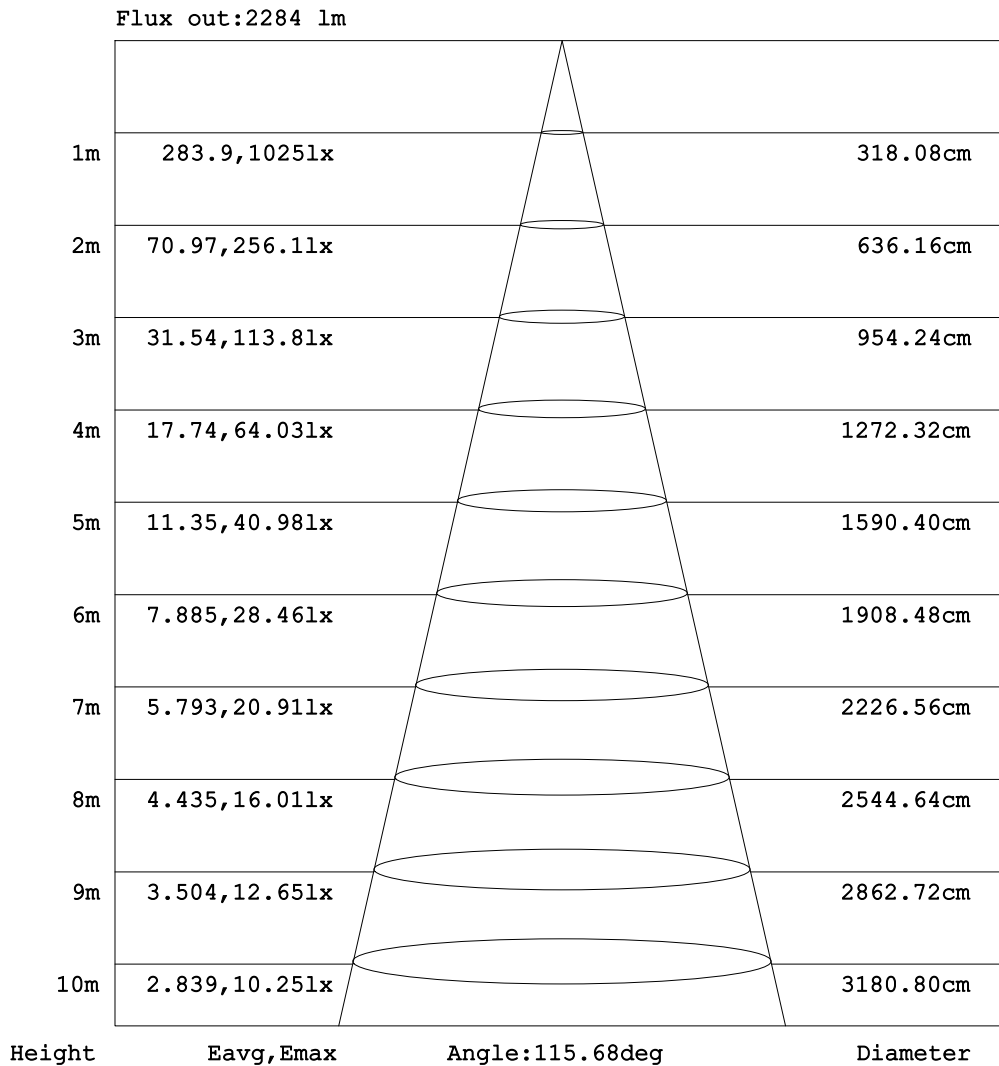
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120



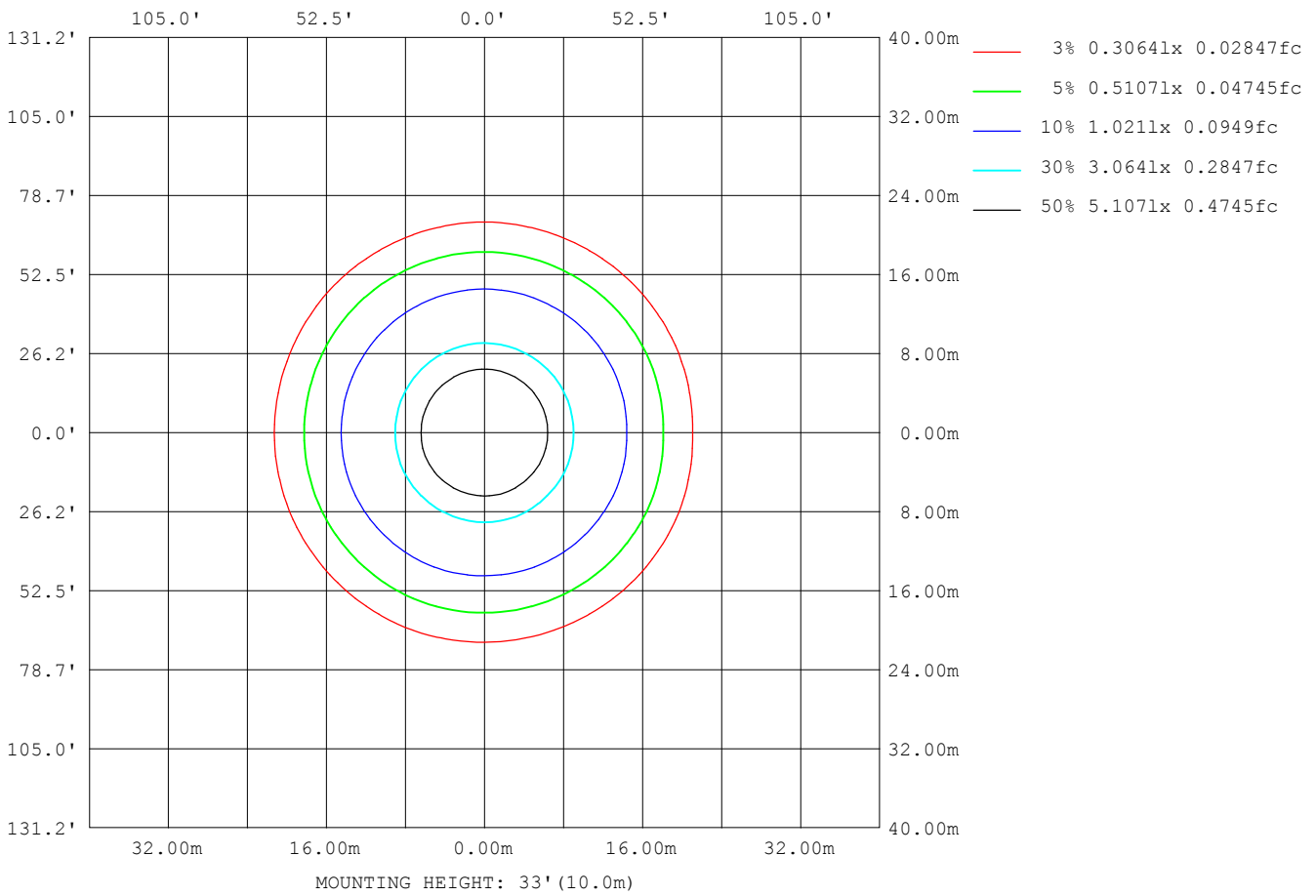
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (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:25.0DEG  
 Test Date:2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120

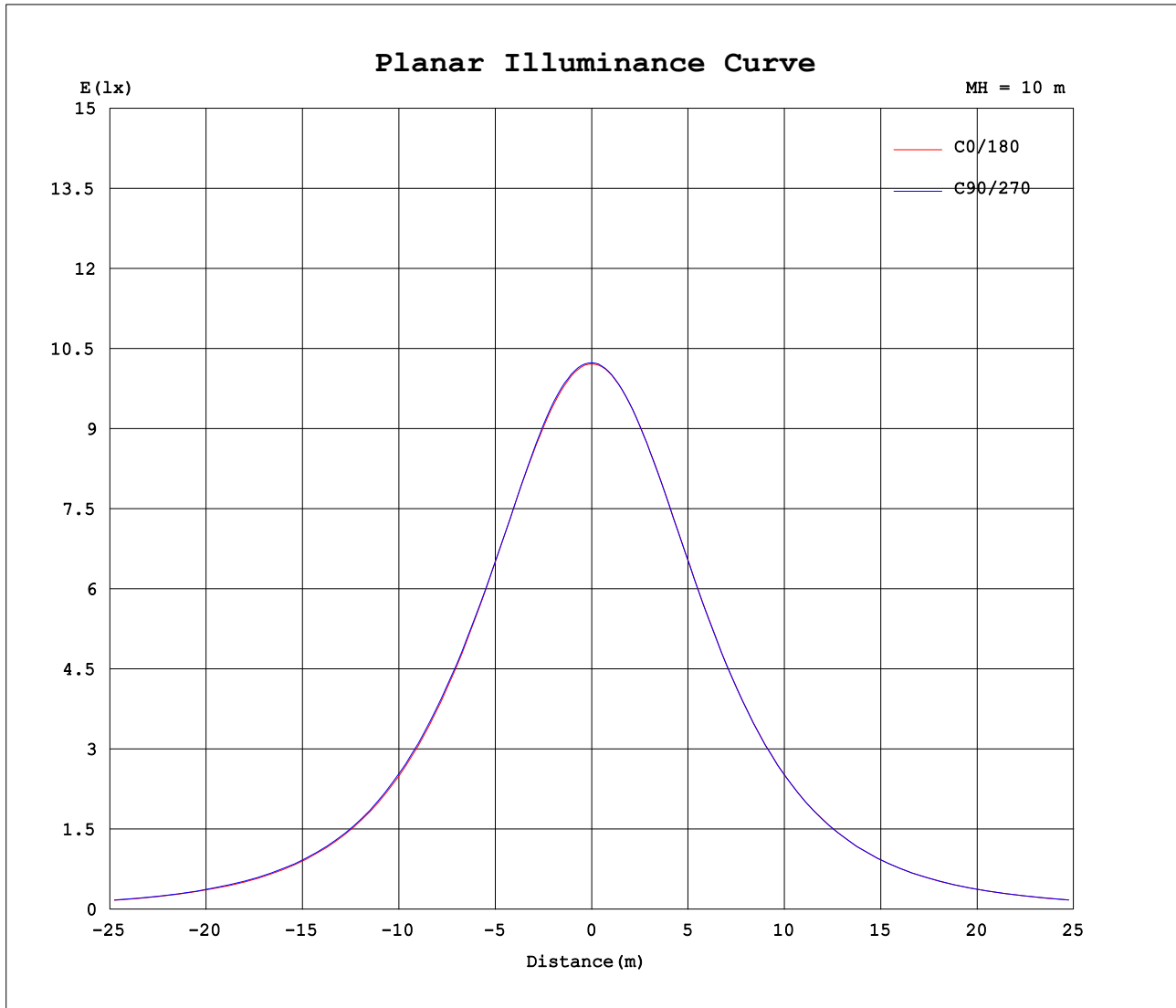
AvgL	cd/m2
L_0~180 (65) av	91825
L_0~180 (75) av	78517
L_0~180 (85) av	52568
L_90~270 (65) av	93067
L_90~270 (75) av	80519
L_90~270 (85) av	53559
L_45 (65) av	93329
L_45 (75) av	80918
L_45 (85) av	56198

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.0DEG  
 Test Date:2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:7.000m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Test Date: 2020-6-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 7.000m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.8803A P:21.127W PF:1.0000 Freq:50.00Hz Lamp Flux:3078.58x1 lm		
NAME: UB-IS-30K90C	TYPE:LED Strip	WEIGHT:Kg
SPEC.:21.6W	DIM.: 1000*10*4 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120

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	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023			
5	1019	1020	1019	1020	1020	1021	1021	1020	1020	1020	1019	1019	1019	1018	1019	1019			
10	1006	1008	1008	1009	1009	1010	1010	1009	1008	1008	1007	1006	1007	1006	1007	1006			
15	986	988	988	989	989	991	991	990	990	988	988	986	987	985	986	985			
20	959	961	960	958	958	962	964	964	963	961	961	959	960	958	958	957			
25	923	926	923	922	922	924	929	930	928	926	926	924	925	922	923	922			
30	881	884	879	882	882	882	887	888	886	884	884	882	883	880	881	879			
35	830	834	829	837	836	833	836	838	836	834	834	832	833	830	830	829			
40	773	776	772	782	782	777	780	781	779	777	778	776	776	773	773	772			
45	708	713	709	719	718	714	715	717	715	713	714	712	713	709	710	707			
50	634	643	641	648	642	645	644	646	644	643	644	642	642	640	639	638			
55	555	566	566	567	564	568	566	568	567	565	567	565	566	563	563	561			
60	469	482	483	481	481	485	483	484	483	482	484	482	483	480	481	478			
65	382	395	394	390	391	395	394	396	395	394	396	395	396	393	393	391			
70	290	303	303	300	299	302	301	302	302	301	304	303	304	301	302	300			
75	198	208	210	210	205	208	206	208	208	209	211	211	212	210	210	208			
80	113	122	122	122	113	119	118	119	119	120	123	123	125	123	123	120			
85	45.8	49.6	48.7	49.9	41.8	48.5	46.1	46.4	45.9	47.3	51.0	51.2	51.5	51.1	50.1	44.0			
90	5.27	6.86	8.57	10.3	2.00	10.1	8.84	8.41	7.47	8.54	10.9	11.8	2.32	11.5	9.45	6.59			
95	2.42	2.57	2.86	2.67	2.09	2.70	2.85	2.77	2.39	2.96	3.68	3.77	1.85	3.40	2.78	2.22			
100	2.72	2.65	2.64	2.75	2.73	2.74	2.72	2.73	2.37	2.43	2.87	2.57	2.43	2.66	2.25	2.23			
105	3.09	3.07	3.19	3.32	3.38	3.39	3.30	3.20	2.72	2.85	3.02	3.11	3.06	2.95	2.81	2.64			
110	3.71	3.67	3.77	3.94	4.03	4.02	3.96	3.83	3.25	3.47	3.64	3.80	3.71	3.56	3.36	3.19			
115	4.33	4.29	4.35	4.55	4.67	4.67	4.61	4.53	3.85	4.13	4.37	4.46	4.37	4.18	3.98	3.80			
120	4.93	4.90	4.86	5.15	5.30	5.29	5.23	5.15	4.47	4.78	5.04	5.11	5.00	4.80	4.60	4.48			
125	5.52	5.52	5.58	5.75	5.89	5.89	5.84	5.76	5.11	5.42	5.70	5.74	5.63	5.41	5.22	5.13			
130	6.11	6.09	6.22	6.32	6.46	6.47	6.43	6.37	5.73	6.03	6.33	6.36	6.24	6.01	5.82	5.76			
135	6.67	6.63	6.77	6.84	6.98	6.99	6.97	6.92	6.36	6.59	6.90	6.91	6.80	6.58	6.40	6.35			
140	7.22	7.15	7.29	7.35	7.47	7.48	7.48	7.45	6.91	7.12	7.43	7.43	7.33	7.10	6.96	6.93			
145	7.82	7.72	7.87	7.90	7.99	8.01	8.03	8.04	7.47	7.65	7.95	7.95	7.85	7.66	7.54	7.54			
150	8.36	8.22	8.35	8.37	8.43	8.46	8.50	8.54	8.02	8.12	8.40	8.39	8.30	8.13	8.04	8.08			
155	8.81	8.62	8.76	8.74	8.78	8.82	8.87	8.93	8.43	8.46	8.73	8.70	8.60	8.48	8.41	8.47			
160	9.17	9.01	9.10	9.05	9.07	9.10	9.16	9.21	8.86	8.78	9.05	9.00	8.90	8.80	8.77	8.87			
165	9.48	9.32	9.37	9.29	9.30	9.33	9.40	9.50	9.23	9.16	9.36	9.28	9.18	9.10	9.11	9.24			
170	9.68	9.51	9.57	9.49	9.46	9.49	9.57	9.69	9.54	9.43	9.59	9.50	9.42	9.36	9.40	9.53			
175	9.85	9.63	9.73	9.62	9.61	9.60	9.70	9.80	9.74	9.62	9.74	9.64	9.57	9.54	9.59	9.71			
180	9.79	9.63	9.75	9.64	9.61	9.58	9.63	9.72	9.77	9.63	9.74	9.65	9.60	9.58	9.62	9.72			

C Range: 0 - 360DEG  
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