LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz		
Lamp Flux:247.659x1 lm		
NAME: CB-RGB300	TYPE:LED Strip	WEIGHT:
SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	Shielding Angle:120

DATA OF LAMP			PHOTOMETRIC DATA	Eff: 54.60 lm/W	
MODEL		Imax(cd)	81.75	S/MH(C0/180)	1.19
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	24V	TOTAL FLUX(lm)	247.68	η UP,DN(C0-180)	1.7,47.2
NOMINAL FLUX(lm)	247.659	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.9,49.3
LAMPS INSIDE	1	η up(%)	3.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	96.5	CIBSE SHR MAX	1.35
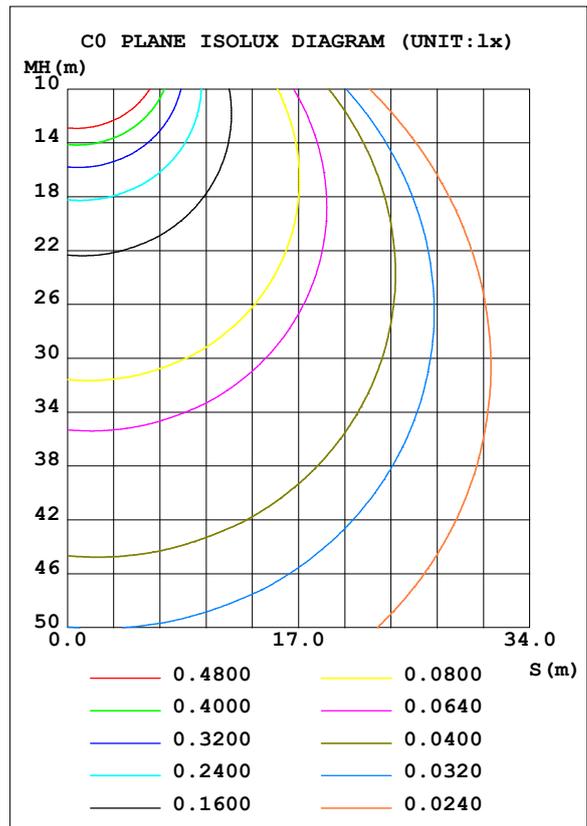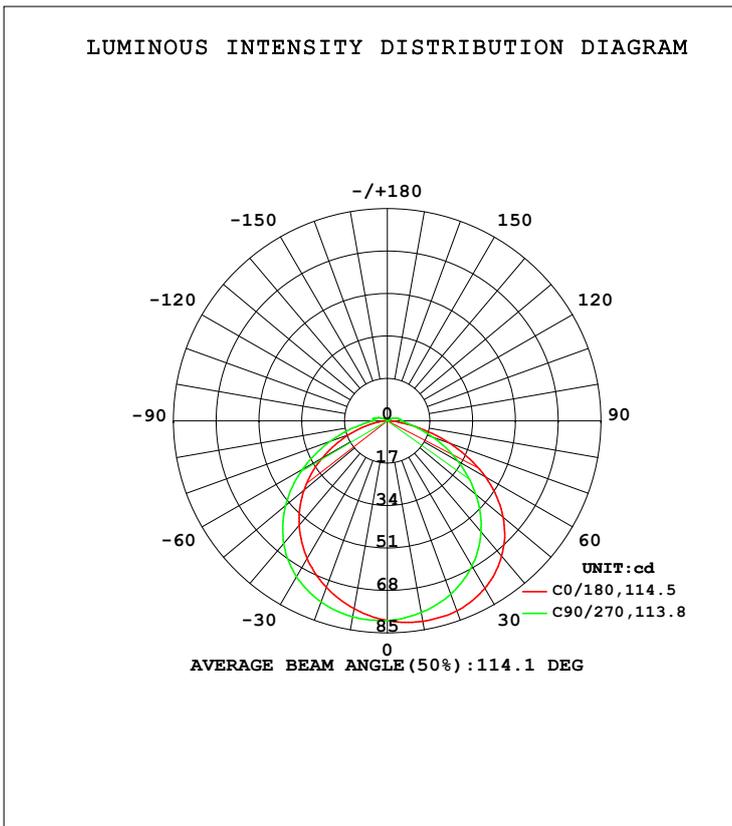
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
— C0/180,114.5
— C90/270,113.8

AVERAGE BEAM ANGLE(50%):114.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)

— 0.4800	— 0.0800
— 0.4000	— 0.0640
— 0.3200	— 0.0400
— 0.2400	— 0.0320
— 0.1600	— 0.0240

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
C Interval: 22.5DEG   γ Interval: 1.0DEG
Test Speed: HIGH   Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG   Humidity:65.0%
Test Date:2021-08-09   Test Distance:9.660m [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	81.56	80.19	77.97	76.46	76.41	77.81	79.74	81.19	0- 10	7.584	7.584	3.06,3.06
20	81.00	78.03	73.87	71.07	70.97	73.54	77.22	80.33	10- 20	21.93	29.51	11.9,11.9
30	77.53	73.22	67.29	63.77	63.76	67.16	72.20	76.75	20- 30	33.79	63.30	25.6,25.6
40	70.73	65.27	57.93	54.35	54.54	58.42	64.10	69.79	30- 40	41.53	104.8	42.3,42.3
50	60.10	53.63	45.99	42.83	43.35	47.35	52.81	59.00	40- 50	43.64	148.5	59.9,59.9
60	45.18	38.68	32.56	29.67	29.96	34.15	39.05	44.22	50- 60	39.19	187.7	75.8,75.8
70	26.49	22.93	19.24	16.97	16.39	20.46	24.36	26.95	60- 70	28.87	216.5	87.4,87.4
80	8.298	10.05	9.532	7.569	5.350	9.234	11.83	11.94	70- 80	15.96	232.5	93.9,93.9
90	0.2623	5.019	5.614	3.608	0.4237	3.586	5.776	4.893	80- 90	6.463	239.0	96.5,96.5
100	0.0913	3.742	4.931	2.684	0.1546	2.903	5.760	3.892	90-100	3.657	242.6	98,98
110	0.0913	1.798	3.354	1.397	0.2386	1.671	3.896	1.756	100-110	2.467	245.1	98.9,99
120	0.2432	0.6397	1.700	0.3498	0.3076	0.5775	2.137	0.6651	110-120	1.269	246.3	99.5,99.5
130	0.2890	0.3499	0.6527	0.3030	0.3349	0.4052	0.8328	0.3433	120-130	0.5578	246.9	99.7,99.7
140	0.2714	0.3193	0.3488	0.3030	0.3349	0.3800	0.4241	0.3184	130-140	0.2861	247.2	99.8,99.8
150	0.2644	0.3193	0.3488	0.3030	0.3349	0.3773	0.3742	0.3475	140-150	0.2092	247.4	99.9,99.9
160	0.2731	0.3193	0.3488	0.3030	0.3349	0.3783	0.3725	0.3582	150-160	0.1547	247.6	99.9,100
170	0.2992	0.3193	0.3488	0.3169	0.3349	0.3794	0.3762	0.3614	160-170	0.0967	247.7	100,100
180	0.3349	0.3345	0.3488	0.3485	0.3197	0.3801	0.3488	0.3636	170-180	0.0331	247.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 126.78 lm

%lum = 51.2%
%lamp = 51.2%

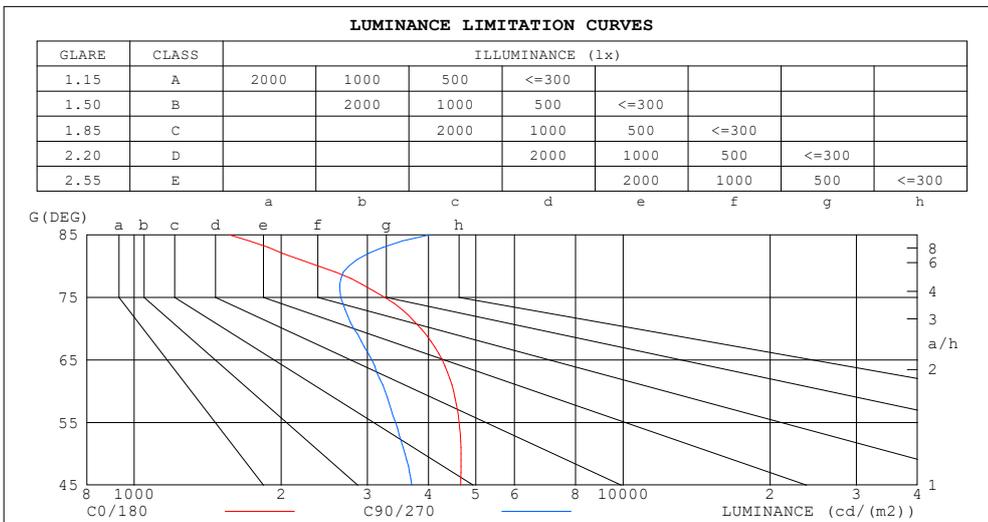Conical surface Flux(120deg): 187.66 lm

%lum = 75.8%
%lamp = 75.8%

LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz **Lamp Flux:247.659x1 lm**			
NAME: CB-RGB300	**TYPE:LED Strip**	**WEIGHT:**	
SPEC.: 14.4W	**DIM.: 1000*10*2(MM)**	**SERIAL No.: 001**	
MFR.: Flexfire LEDs, Inc.	**SUR.: 0.02*1**	**Shielding Angle:120**	

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

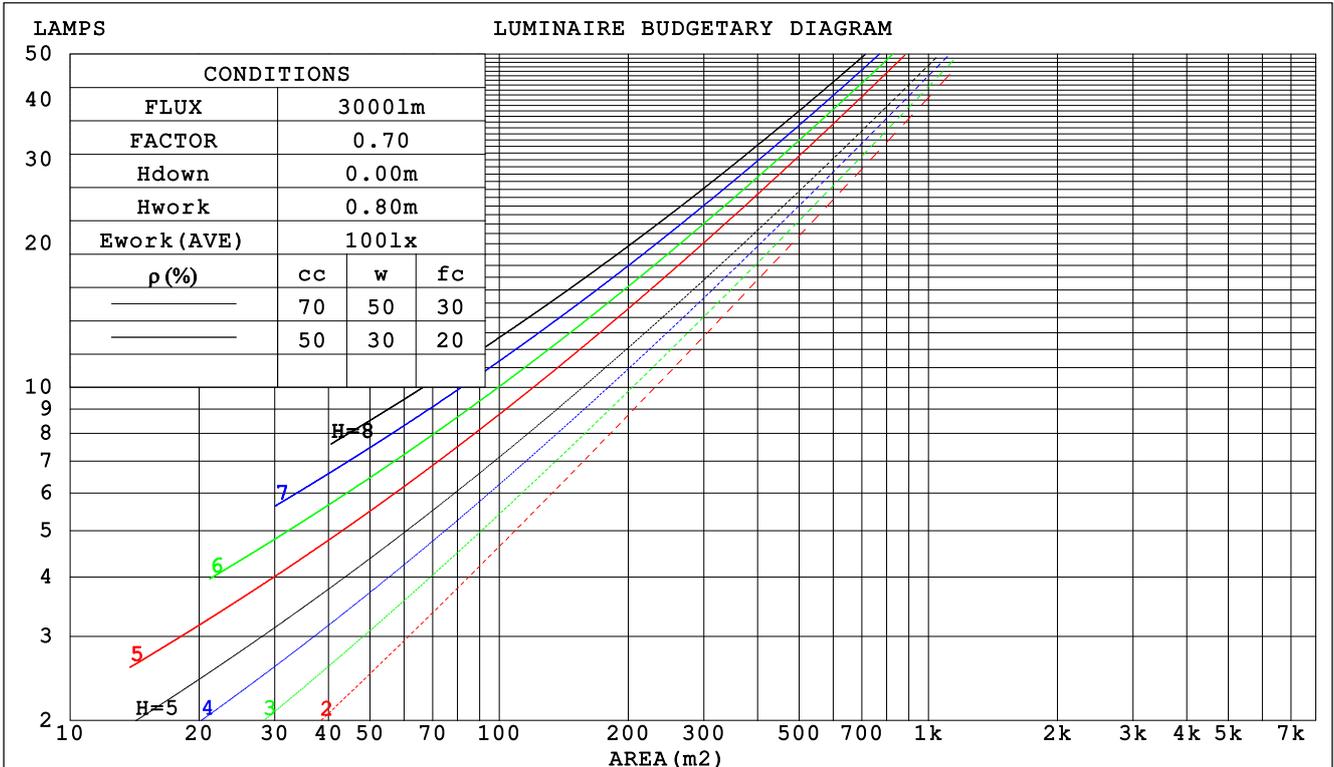| LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1565	4019
80	2383	2748
75	3258	2645
70	3863	2817
65	4273	3063
60	4507	3260
55	4621	3427
50	4663	3581
45	4654	3700

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz
Lamp Flux:247.659x1 lm

NAME: CB-RGB300	TYPE:LED Strip	WEIGHT:
SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	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	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.96
1.0	1.03	.98	.94	1.00	.96	.93	.95	.92	.89	.91	.88	.86	.87	.84	.82	.80
2.0	.89	.83	.77	.87	.81	.76	.83	.78	.73	.79	.75	.71	.76	.72	.69	.67
3.0	.78	.70	.64	.77	.69	.63	.73	.67	.61	.70	.64	.60	.67	.62	.58	.56
4.0	.69	.61	.54	.68	.60	.53	.65	.58	.52	.62	.56	.51	.60	.54	.50	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.49	.44	.53	.48	.43	.41
6.0	.56	.47	.40	.55	.46	.40	.52	.45	.39	.50	.44	.39	.48	.43	.38	.36
7.0	.50	.42	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.40	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23

LAMPS   LUMINAIRE BUDGETARY DIAGRAM

CONDITIONS			
FLUX	3000lm		
FACTOR	0.70		
Hdown	0.00m		
Hwork	0.80m		
Ework(AVE)	100lx		
ρ(%)	cc	w	fc
————	70	50	30
————	50	30	20

AREA(m2)

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
C Interval: 22.5DEG   γ Interval: 1.0DEG
Test Speed: HIGH   Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG   Humidity:65.0%
Test Date:2021-08-09   Test Distance:9.660m [K=1.0000]
                              Remarks:

WEC AND CCEC

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz	
Lamp Flux:247.659x1 lm	

NAME: CB-RGB300	TYPE:LED Strip	WEIGHT:
SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	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						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.315	.179	.057	.307	.175	.056	.291	.167	.053	.277	.160	.051	.264	.153	.049	
2.0	.293	.161	.049	.286	.158	.049	.272	.151	.047	.260	.146	.046	.248	.140	.044	
3.0	.270	.144	.043	.264	.141	.043	.252	.137	.041	.241	.132	.040	.230	.128	.039	
4.0	.249	.130	.038	.244	.127	.038	.233	.123	.037	.223	.120	.036	.213	.116	.035	
5.0	.230	.117	.034	.225	.116	.034	.216	.112	.033	.207	.109	.032	.198	.106	.032	
6.0	.213	.107	.031	.209	.106	.030	.200	.103	.030	.192	.100	.029	.185	.097	.029	
7.0	.199	.098	.028	.195	.097	.028	.187	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.186	.091	.025	.182	.090	.025	.175	.087	.025	.168	.085	.025	.162	.083	.024	
9.0	.174	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.152	.077	.022	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.149	.074	.021	.144	.072	.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	.217	.217	.217	.186	.186	.186	.127	.127	.127	.073	.073	.073	.023	.023	.023	
1.0	.208	.183	.161	.178	.157	.139	.122	.108	.096	.070	.063	.056	.022	.020	.018	
2.0	.200	.159	.125	.171	.137	.108	.117	.095	.075	.068	.055	.044	.022	.018	.014	
3.0	.192	.142	.102	.165	.122	.088	.113	.085	.062	.065	.050	.036	.021	.016	.012	
4.0	.184	.129	.086	.158	.111	.075	.109	.077	.053	.063	.045	.031	.020	.015	.010	
5.0	.177	.118	.075	.152	.102	.065	.105	.071	.046	.061	.042	.027	.020	.014	.009	
6.0	.170	.110	.067	.146	.095	.058	.101	.067	.041	.058	.039	.024	.019	.013	.008	
7.0	.163	.103	.061	.140	.089	.053	.097	.063	.038	.056	.037	.022	.018	.012	.007	
8.0	.157	.097	.057	.135	.084	.049	.093	.059	.035	.054	.035	.021	.018	.011	.007	
9.0	.151	.092	.053	.130	.080	.046	.090	.056	.033	.052	.033	.020	.017	.011	.006	
10.0	.145	.088	.050	.125	.077	.044	.087	.054	.031	.051	.032	.019	.016	.010	.006	

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
C Interval: 22.5DEG   γ Interval: 1.0DEG
Test Speed: HIGH   Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG   Humidity:65.0%
Test Date:2021-08-09   Test Distance:9.660m [K=1.0000]
                             Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz
Lamp Flux:247.659x1 lm

NAME: CB-RGB300	TYPE:LED Strip	WEIGHT:
SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	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	23.2	24.6	23.5	24.9	25.2	21.9	23.4	22.2	23.7	23.9
3H	24.6	26.0	25.0	26.3	26.6	23.2	24.6	23.6	24.9	25.2
4H	25.1	26.4	25.5	26.7	27.1	23.7	25.0	24.1	25.3	25.7
6H	25.4	26.6	25.8	27.0	27.3	24.2	25.4	24.5	25.7	26.1
8H	25.4	26.6	25.8	27.0	27.3	24.4	25.6	24.8	25.9	26.3
12H	25.5	26.6	25.9	26.9	27.3	24.6	25.8	25.0	26.1	26.5
4H 2H	23.6	24.9	24.0	25.2	25.5	22.6	23.9	23.0	24.2	24.6
3H	25.2	26.4	25.6	26.7	27.1	24.1	25.2	24.5	25.6	26.0
4H	25.9	26.9	26.3	27.3	27.7	24.7	25.8	25.2	26.1	26.5
6H	26.2	27.2	26.7	27.6	28.0	25.3	26.2	25.7	26.6	27.1
8H	26.3	27.2	26.8	27.6	28.1	25.6	26.4	26.1	26.9	27.3
12H	26.4	27.2	26.9	27.6	28.1	25.9	26.7	26.4	27.2	27.6
8H 4H	26.0	26.9	26.5	27.3	27.8	25.0	25.9	25.5	26.3	26.8
6H	26.6	27.3	27.1	27.7	28.2	25.8	26.5	26.3	27.0	27.5
8H	26.7	27.4	27.3	27.9	28.4	26.2	26.8	26.7	27.3	27.8
12H	26.9	27.4	27.4	27.9	28.5	26.7	27.3	27.2	27.8	28.3
12H 4H	26.0	26.8	26.5	27.3	27.7	25.0	25.8	25.5	26.3	26.8
6H	26.6	27.2	27.1	27.7	28.3	25.9	26.5	26.4	27.0	27.5
8H	26.8	27.4	27.4	27.9	28.5	26.3	26.9	26.9	27.4	28.0

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 / - 0.4
2.0H	+ 0.3 / - 0.4	+ 0.2 / - 0.4

CIE Pub.117, 247.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.8)
Area: 0.02 m2

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
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Test Speed: HIGH   Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG   Humidity:65.0%
Test Date:2021-08-09   Test Distance:9.660m [K=1.0000]
                              Remarks:

UTILIZATION FACTORS TABLE

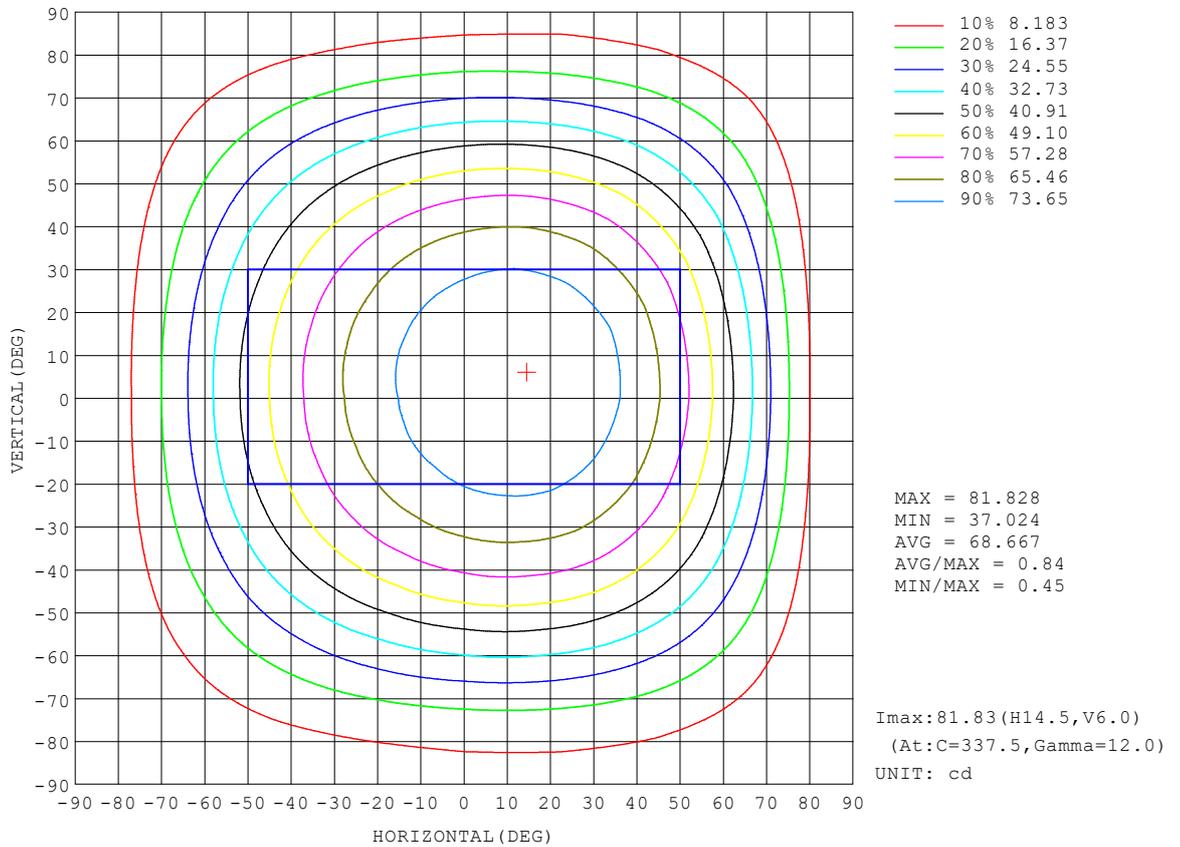| Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz Lamp Flux:247.659x1 lm		
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SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	Shielding Angle:120

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) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	47	65	54	46	63	53	46	39
1.00	74	63	56	73	62	55	71	64	55	47
1.25	81	71	63	80	70	63	77	68	62	54
1.50	86	76	69	85	75	69	81	73	67	59
2.00	93	85	78	91	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	98	92	87	94	88	84	75
4.00	105	99	94	102	97	92	97	93	89	79
5.00	107	102	98	105	100	96	99	96	93	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended								SHRNOM = 1.25	

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Temperature:25.3DEG   Humidity:65.0%
Test Date:2021-08-09   Test Distance:9.660m [K=1.0000]
                              Remarks:

FLEXFIRELEDs

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz **Lamp Flux:247.659x1 lm**		
NAME: CB-RGB300	**TYPE:LED Strip**	**WEIGHT:**
SPEC.: 14.4W	**DIM.: 1000*10*2(MM)**	**SERIAL No.: 001**
MFR.: Flexfire LEDs, Inc.	**SUR.: 0.02*1**	**Shielding Angle:120**

10% 8.183
20% 16.37
30% 24.55
40% 32.73
50% 40.91
60% 49.10
70% 57.28
80% 65.46
90% 73.65

VERTICAL(DEG)

HORIZONTAL(DEG)

MAX = 81.828
MIN = 37.024
AVG = 68.667
AVG/MAX = 0.84
MIN/MAX = 0.45

Imax:81.83(H14.5,V6.0)
 (At:C=337.5,Gamma=12.0)
UNIT: cd

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
C Interval: 22.5DEG   γ Interval: 1.0DEG
Test Speed: HIGH   Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG   Humidity:65.0%
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FLEXFIRELEDs

AAI Figure

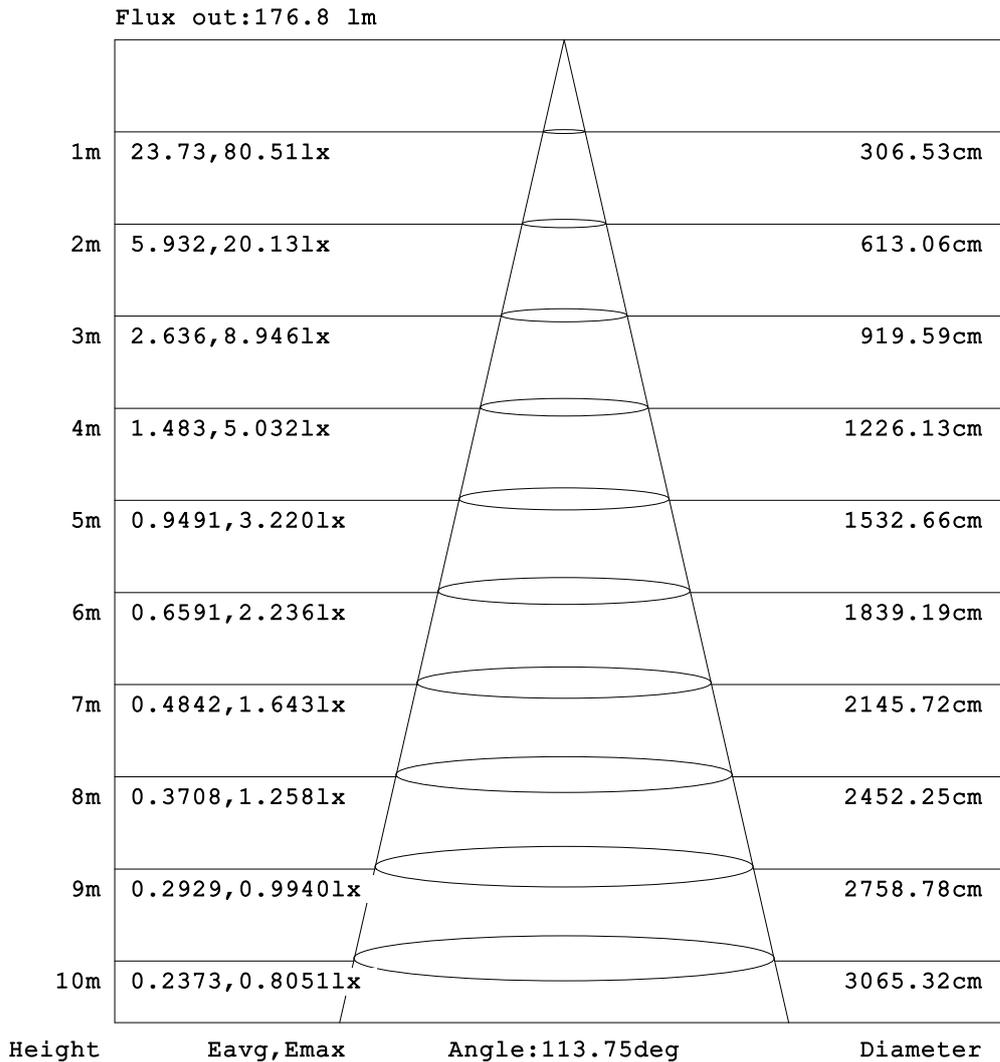| Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz Lamp Flux:247.659x1 lm			
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SPEC.: 14.4W	DIM.: 1000*10*2(MM)		SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1		Shielding Angle:120

Flux out:176.8 lm

Height	Eavg,Emax		Diameter
1m	23.73,80.51lx		306.53cm
2m	5.932,20.13lx		613.06cm
3m	2.636,8.946lx		919.59cm
4m	1.483,5.032lx		1226.13cm
5m	0.9491,3.220lx		1532.66cm
6m	0.6591,2.236lx		1839.19cm
7m	0.4842,1.643lx		2145.72cm
8m	0.3708,1.258lx		2452.25cm
9m	0.2929,0.9940lx		2758.78cm
10m	0.2373,0.8051lx		3065.32cm

Height   Eavg,Emax   Angle:113.75deg   Diameter
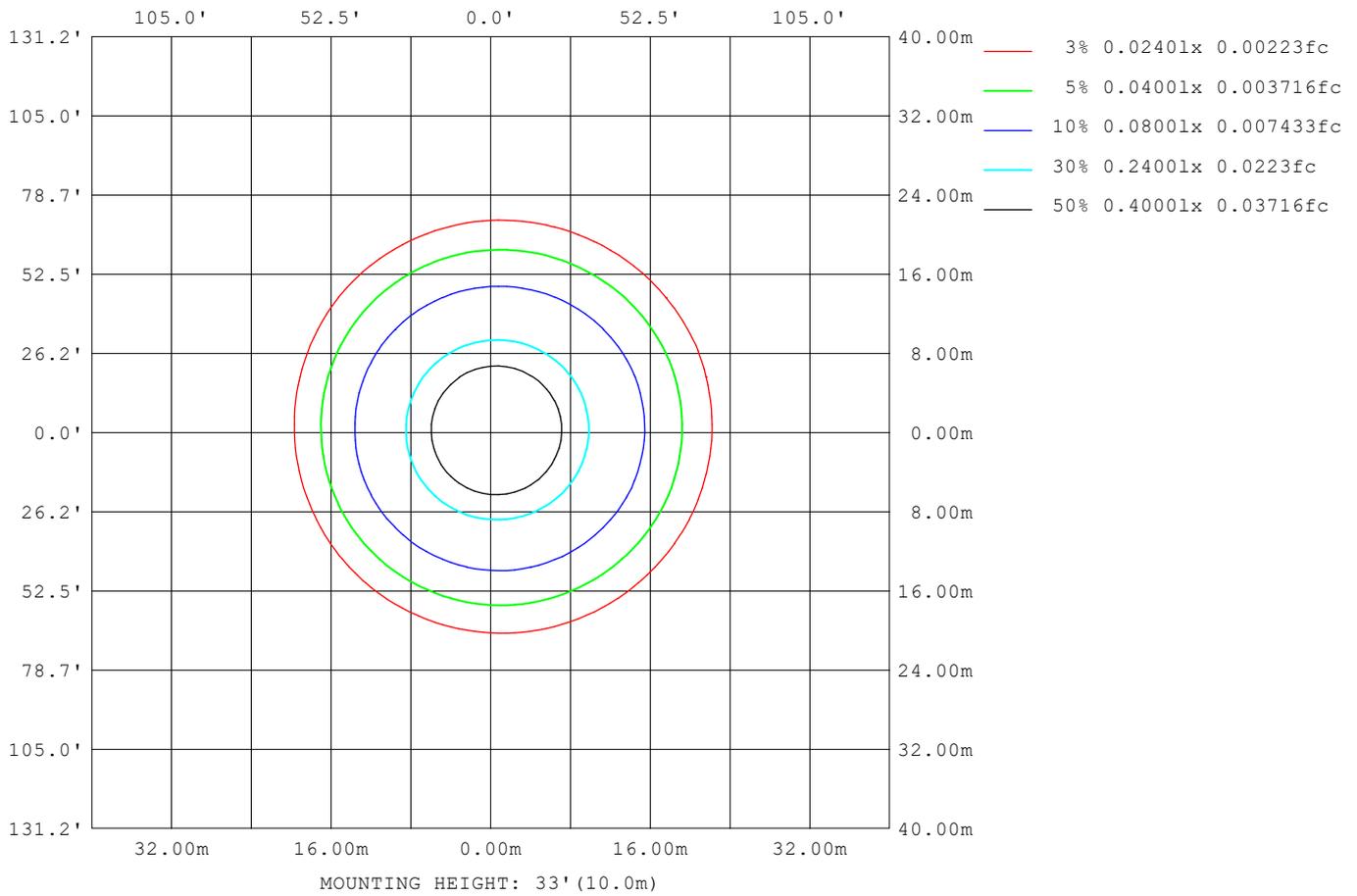
Note:The Curves indicate the illuminated area and the average
     illumination when the luminaire is at different distance.

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
C Interval: 22.5DEG   γ Interval: 1.0DEG
Test Speed: HIGH   Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG   Humidity:65.0%
Test Date:2021-08-09   Test Distance:9.660m [K=1.0000]
                              Remarks:

ISOLUX DIAGRAM

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz Lamp Flux:247.659x1 lm		
NAME: CB-RGB300	TYPE:LED Strip	WEIGHT:
SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	Shielding Angle:120

Legend:
- 3% 0.0240lx 0.00223fc
- 5% 0.0400lx 0.003716fc
- 10% 0.0800lx 0.007433fc
- 30% 0.2400lx 0.0223fc
- 50% 0.40001lx 0.03716fc

MOUNTING HEIGHT: 33'(10.0m)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Test Date:2021-08-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

LED Avg.L Report

|		
Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz Lamp Flux:247.659x1 lm		
NAME: CB-RGB300	TYPE:LED Strip	WEIGHT:
SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	Shielding Angle:120

AvgL	cd/m2
L_0~180(65)av	3504
L_0~180(75)av	2624
L_0~180(85)av	1433
L_90~270(65)av	3398
L_90~270(75)av	3027
L_90~270(85)av	4284
L_45(65)av	3455
L_45(75)av	2925
L_45(85)av	3504

Standard: GB/T 29293-2012

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
C Interval: 22.5DEG   γ Interval: 1.0DEG
Test Speed: HIGH   Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG   Humidity:65.0%
Test Date:2021-08-09   Test Distance:9.660m [K=1.0000]
                           Remarks:

Planar Illuminance Curve
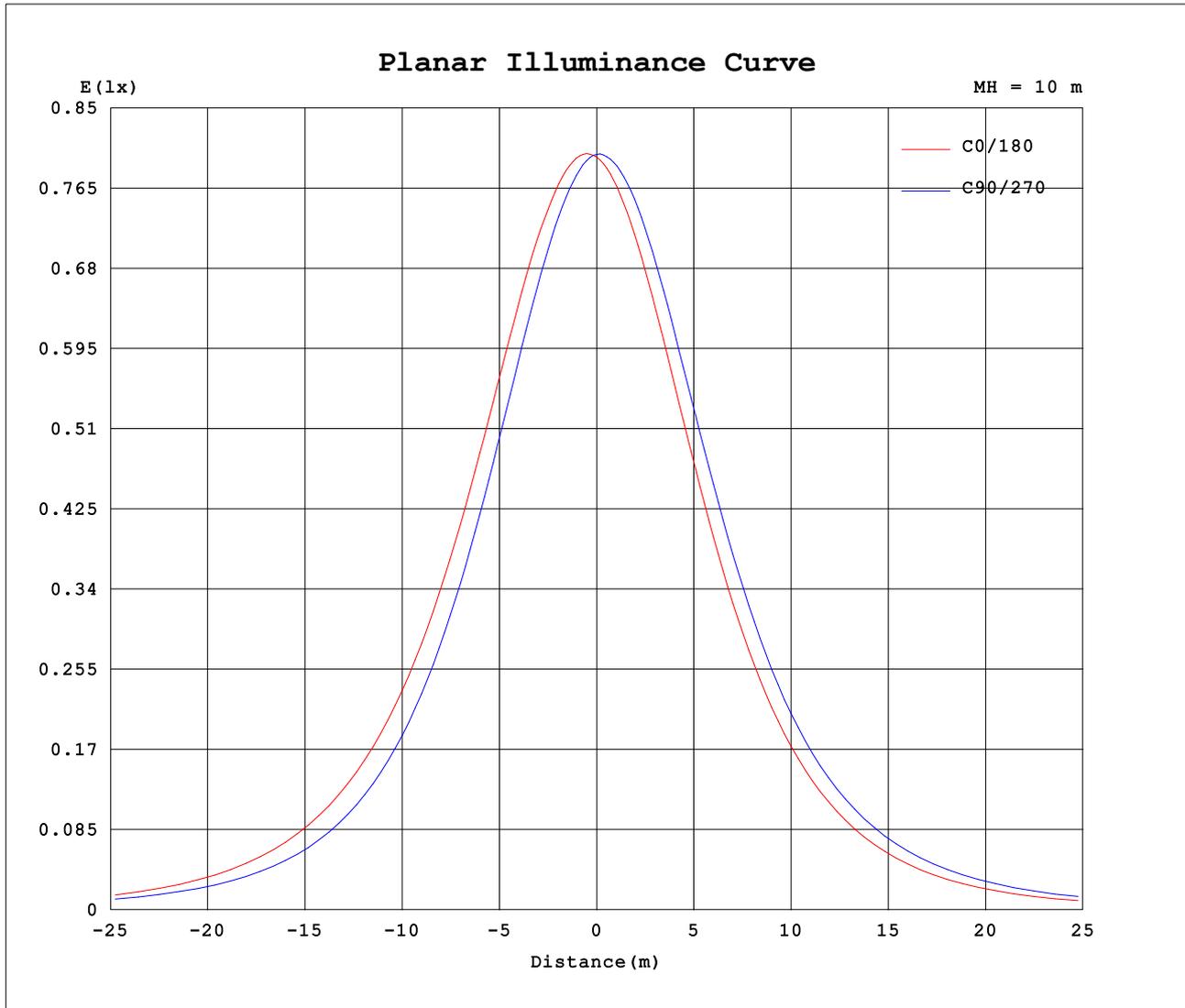
Planar Illuminance Curve

E(lx)   MH = 10 m

C0/180
C90/270

Distance(m)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Test Date:2021-08-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.1890A P:4.5360W PF:1.0000 Freq:0Hz
Lamp Flux:247.659x1 lm

NAME: CB-RGB300	TYPE:LED Strip	WEIGHT:
SPEC.: 14.4W	DIM.: 1000*10*2(MM)	SERIAL No.: 001
MFR.: Flexfire LEDs, Inc.	SUR.: 0.02*1	Shielding Angle:120

Table--1   UNIT: cd

γ (DEG) \ C(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	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
5	81.1	80.6	80.3	79.8	79.2	78.8	78.5	78.4	78.4	78.7	79.2	79.8	80.1	80.6	81.0	81.1
10	81.6	80.8	80.2	79.0	78.0	77.0	76.5	76.2	76.4	77.0	77.8	78.9	79.7	80.6	81.2	81.7
15	81.5	80.4	79.4	77.7	76.2	74.8	74.0	73.6	73.9	74.7	75.9	77.5	78.7	80.4	81.1	81.7
20	81.0	79.4	78.0	75.9	73.9	72.1	71.1	70.6	71.0	72.0	73.5	75.5	77.2	79.3	80.3	81.3
25	79.6	77.8	76.0	73.3	70.9	68.9	67.6	67.1	67.6	68.8	70.6	72.9	75.0	77.4	78.9	80.0
30	77.5	75.5	73.2	70.1	67.3	65.2	63.8	63.2	63.8	65.1	67.2	69.7	72.2	74.9	76.8	78.0
35	74.6	72.2	69.7	66.1	63.0	60.7	59.3	58.8	59.4	60.8	63.1	65.8	68.6	71.6	73.7	75.1
40	70.7	68.3	65.3	61.3	57.9	55.6	54.3	53.9	54.5	56.0	58.4	61.2	64.1	67.3	69.8	71.3
45	66.0	63.4	59.9	55.7	52.3	50.0	48.8	48.6	49.2	50.7	53.2	55.9	58.8	62.2	65.0	66.5
50	60.1	57.4	53.6	49.4	46.0	43.8	42.8	42.6	43.4	44.9	47.3	49.9	52.8	56.1	59.0	60.7
55	53.1	50.5	46.5	42.4	39.3	37.2	36.4	36.2	36.9	38.5	41.0	43.4	46.2	49.3	52.1	53.8
60	45.2	42.5	38.7	35.3	32.6	30.6	29.7	29.3	30.0	31.7	34.1	36.5	39.1	41.7	44.2	45.8
65	36.2	33.8	30.7	28.2	25.9	24.3	23.1	22.5	23.0	24.7	27.3	29.4	31.6	33.7	35.8	37.0
70	26.5	24.7	22.9	21.0	19.2	18.1	17.0	16.1	16.4	18.1	20.5	22.5	24.4	25.8	27.0	27.7
75	16.9	16.5	15.8	14.8	13.7	12.7	11.7	10.7	10.3	12.2	14.3	16.2	17.7	18.5	18.8	18.4
80	8.30	9.46	10.0	10.1	9.53	8.59	7.57	6.34	5.35	7.29	9.23	10.8	11.8	12.3	11.9	10.5
85	2.74	4.81	6.56	7.23	7.00	6.01	4.91	3.40	2.26	3.94	5.53	7.09	7.94	8.34	7.43	5.20
90	0.26	2.66	5.02	5.65	5.61	4.80	3.61	1.70	0.42	2.07	3.59	5.02	5.78	6.01	4.89	2.64
95	0.09	1.96	4.62	5.35	5.23	4.55	3.30	1.29	0.12	1.46	3.24	4.47	5.20	5.56	4.85	1.94
100	0.09	1.23	3.74	4.85	4.93	4.08	2.68	0.86	0.15	1.22	2.90	4.77	5.76	5.79	3.89	1.25
105	0.09	0.46	2.86	3.83	4.04	3.14	2.11	0.41	0.20	0.85	2.40	3.94	4.62	4.45	2.80	0.58
110	0.09	0.28	1.80	3.04	3.35	2.44	1.40	0.36	0.24	0.44	1.67	3.28	3.90	3.52	1.76	0.27
115	0.14	0.25	1.11	2.11	2.64	1.85	0.86	0.31	0.28	0.32	1.23	2.45	2.80	2.51	1.17	0.20
120	0.24	0.26	0.64	1.32	1.70	1.21	0.35	0.33	0.31	0.30	0.58	1.82	2.14	1.91	0.67	0.21
125	0.26	0.27	0.52	0.79	1.02	0.74	0.30	0.33	0.33	0.29	0.42	0.97	1.44	1.11	0.39	0.26
130	0.29	0.28	0.35	0.50	0.65	0.42	0.30	0.35	0.33	0.29	0.41	0.68	0.83	0.67	0.34	0.25
135	0.28	0.28	0.32	0.35	0.54	0.39	0.30	0.35	0.33	0.29	0.39	0.41	0.45	0.44	0.31	0.29
140	0.27	0.29	0.32	0.35	0.35	0.39	0.30	0.35	0.33	0.29	0.38	0.39	0.42	0.32	0.32	0.29
145	0.26	0.30	0.32	0.35	0.35	0.38	0.30	0.35	0.33	0.29	0.37	0.38	0.40	0.32	0.33	0.29
150	0.26	0.30	0.32	0.35	0.35	0.38	0.30	0.35	0.33	0.29	0.38	0.37	0.37	0.32	0.35	0.29
155	0.27	0.32	0.32	0.35	0.35	0.38	0.30	0.35	0.33	0.29	0.38	0.37	0.37	0.32	0.36	0.29
160	0.27	0.37	0.32	0.35	0.35	0.38	0.30	0.35	0.33	0.29	0.38	0.36	0.37	0.32	0.36	0.29
165	0.29	0.41	0.32	0.35	0.35	0.38	0.31	0.35	0.33	0.30	0.38	0.36	0.37	0.32	0.36	0.29
170	0.30	0.41	0.32	0.35	0.35	0.38	0.32	0.35	0.33	0.31	0.38	0.36	0.38	0.32	0.36	0.30
175	0.30	0.41	0.32	0.35	0.35	0.38	0.33	0.35	0.33	0.33	0.38	0.35	0.38	0.32	0.36	0.32
180	0.33	0.41	0.33	0.35	0.35	0.35	0.35	0.35	0.32	0.38	0.38	0.35	0.35	0.32	0.36	0.32

C Range: 0 - 360DEG   γ Range: 0 - 180DEG
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