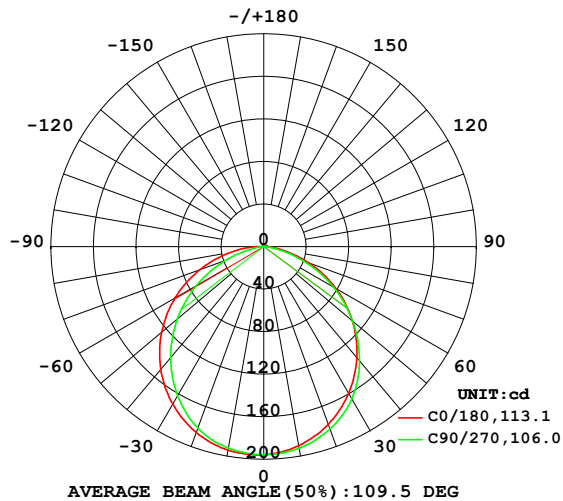


## LUMINAIRE PHOTOMETRIC TEST REPORT

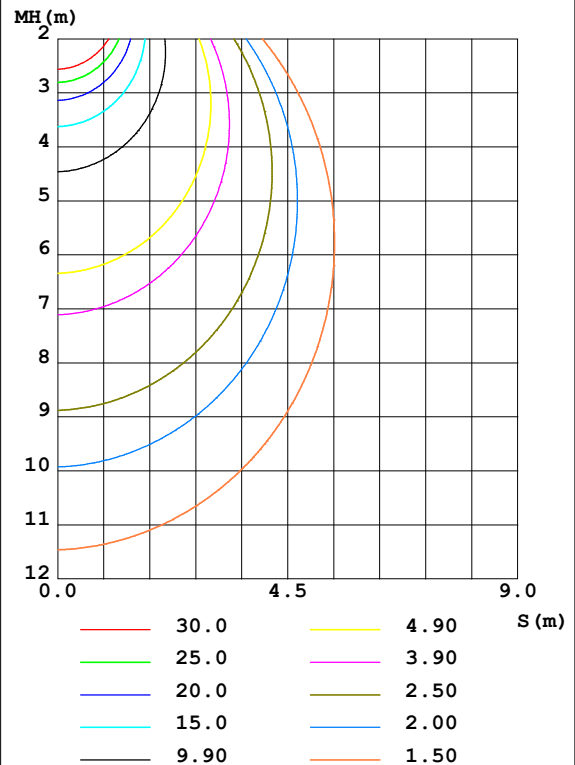
Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 57.27 lm/W			
MODEL	015015	I <sub>max</sub> (cd)	195.9	S/MH(C0/180)	1.30
NOMINAL POWER(W)	9.88	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	565.75	η UP,DN(C0-180)	0.8,48.8
NOMINAL FLUX(lm)	565.751	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,49.7
LAMPS INSIDE	1	η up(%)	1.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	98.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

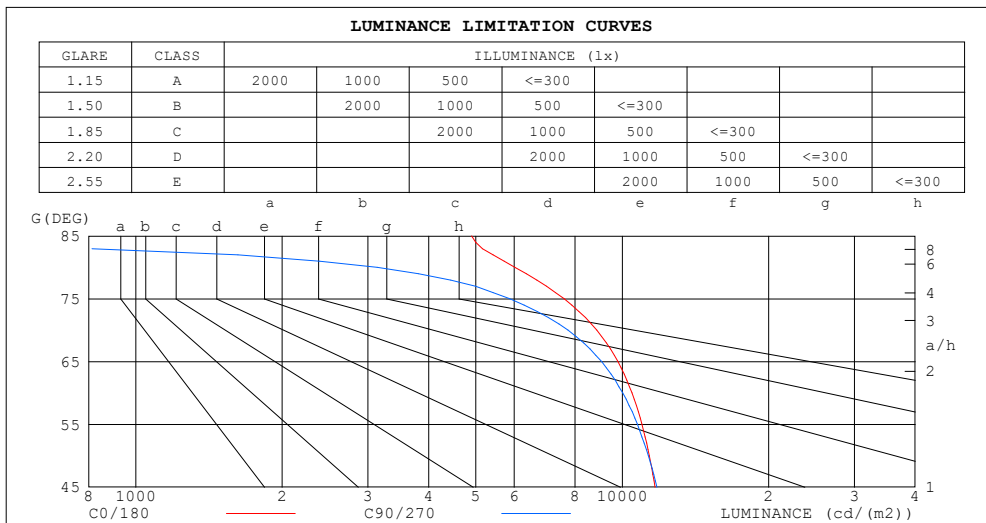
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	190.0	191.0	192.4	193.4	194.2	193.5	192.3	191.1	0- 10	18.51	18.51	3.27,3.27
20	177.7	179.7	182.5	184.4	185.9	184.6	181.5	179.8	10- 20	53.05	71.57	12.6,12.6
30	159.5	162.3	165.6	169.1	171.1	169.5	161.9	162.3	20- 30	80.38	151.9	26.9,26.9
40	136.2	139.6	140.1	148.0	150.7	148.8	136.3	138.9	30- 40	96.80	248.8	44,44
50	108.8	112.6	109.3	122.3	125.4	123.1	106.1	113.0	40- 50	100.1	348.9	61.7,61.7
60	77.99	82.05	75.26	92.59	96.22	93.63	73.03	82.52	50- 60	90.04	438.9	77.6,77.6
70	45.15	49.17	39.72	60.02	64.02	61.27	38.63	49.48	60- 70	68.59	507.5	89.7,89.7
80	15.55	18.10	8.182	27.33	31.22	28.49	8.112	18.08	70- 80	38.56	546.1	96.5,96.5
90	2.711	2.443	0.0640	4.340	6.649	4.908	0.0769	2.553	80- 90	11.13	557.2	98.5,98.5
100	2.406	1.925	0.2795	1.491	1.335	1.569	0.2671	1.807	90-100	2.063	559.3	98.9,98.9
110	1.877	1.703	0.3302	1.351	1.273	1.392	0.3624	1.465	100-110	1.396	560.6	99.1,99.1
120	1.783	1.077	0.5333	1.427	1.323	1.317	0.5658	1.102	110-120	1.188	561.8	99.3,99.3
130	1.682	0.9939	0.7367	1.440	1.304	1.317	0.7689	1.096	120-130	1.041	562.9	99.5,99.5
140	1.575	1.095	0.9338	1.421	1.348	1.317	0.9723	1.140	130-140	0.9192	563.8	99.7,99.7
150	1.544	1.159	1.264	1.357	1.348	1.317	1.214	1.204	140-150	0.7935	564.6	99.8,99.8
160	1.449	1.475	1.366	1.344	1.348	1.361	1.335	1.433	150-160	0.6214	565.2	99.9,99.9
170	1.480	1.481	1.430	1.395	1.436	1.456	1.449	1.478	160-170	0.3989	565.6	100,100
180	1.487	1.488	1.468	1.472	1.468	1.494	1.480	1.478	170-180	0.1396	565.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

## LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4904	496
80	6012	3137
75	7590	5875
70	8863	7731
65	9792	9063
60	10473	10020
55	10978	10744
50	11365	11315
45	11679	11787

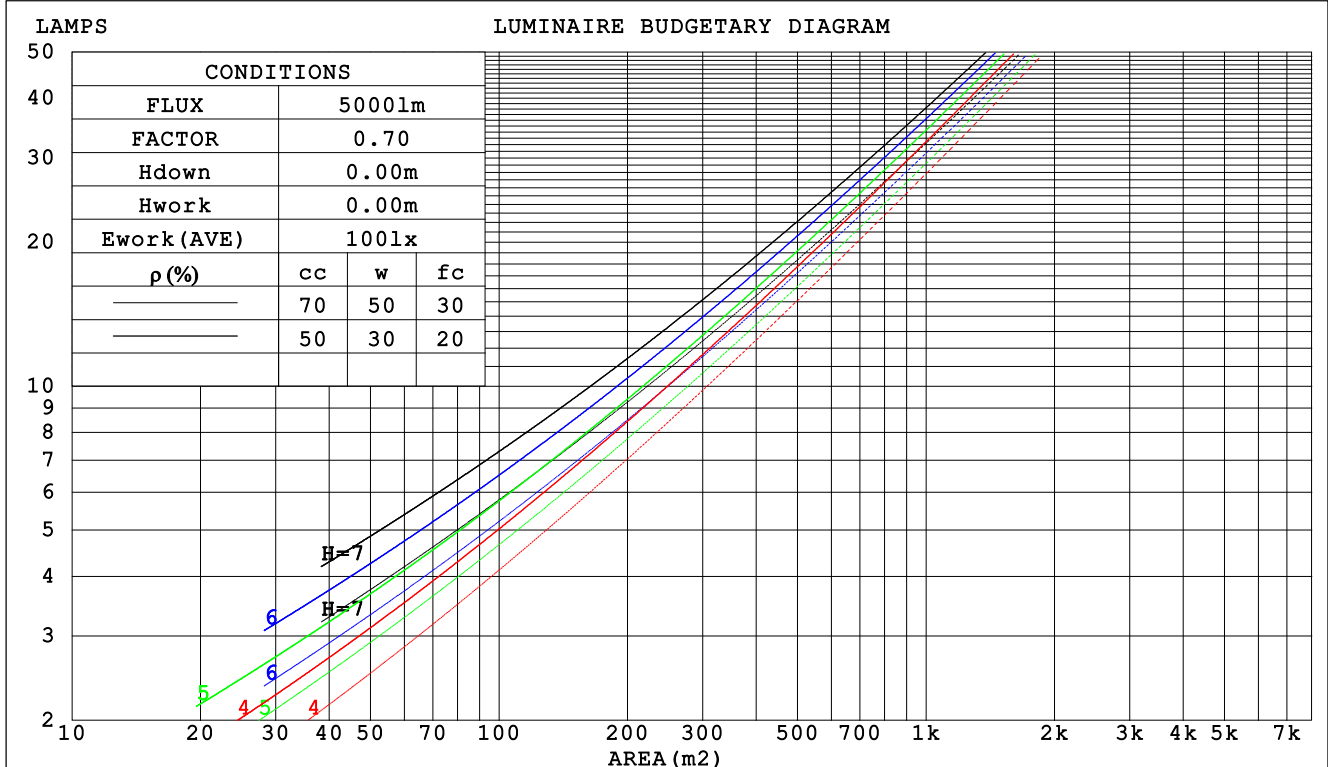
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.04	.99	.95	1.01	.97	.94	.97	.93	.90	.92	.90	.87	.89	.86	.84	.82
2.0	.90	.83	.78	.88	.82	.76	.84	.79	.74	.81	.76	.73	.78	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LI  
 Test Date:2019-07-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
 Humidity:65.0%  
 Test Distance:9.650m [K=1.0000]  
 Remarks: S2835L120B24WW30K8IP67-10-015015

## WEC AND CCEC

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm					
NAME: 015015			TYPE:015015		WEIGHT:
SPEC.:1000*15*15			DIM.: 1000*15*15		SERIAL No.:3#
MFR.: BLUEVISION			SUR.:1000*15		Shielding Angle:

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	.310	.176	.056	.302	.172	.055	.288	.165	.053	.275	.159	.051	.263	.152	.049	
2.0	.291	.160	.049	.284	.157	.048	.272	.151	.047	.260	.146	.046	.250	.141	.045	
3.0	.269	.143	.043	.263	.141	.042	.252	.137	.042	.242	.133	.041	.233	.129	.040	
4.0	.249	.129	.038	.243	.127	.038	.233	.124	.037	.224	.120	.036	.216	.117	.036	
5.0	.230	.117	.034	.225	.116	.034	.216	.113	.033	.208	.110	.033	.200	.107	.032	
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.194	.101	.030	.187	.098	.029	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.160	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.146	.073	.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	.202	.202	.202	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.192	.168	.146	.164	.144	.126	.112	.099	.087	.065	.057	.051	.021	.018	.016	
2.0	.184	.144	.110	.157	.124	.095	.108	.086	.066	.062	.050	.039	.020	.016	.013	
3.0	.176	.126	.086	.151	.109	.075	.104	.076	.052	.060	.044	.031	.019	.014	.010	
4.0	.169	.113	.070	.145	.097	.061	.099	.068	.043	.058	.040	.025	.019	.013	.008	
5.0	.161	.102	.059	.138	.089	.051	.095	.062	.036	.055	.036	.022	.018	.012	.007	
6.0	.154	.094	.051	.132	.081	.045	.091	.057	.031	.053	.034	.019	.017	.011	.006	
7.0	.147	.087	.045	.127	.076	.039	.087	.053	.028	.051	.031	.017	.016	.010	.005	
8.0	.141	.081	.041	.121	.071	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
9.0	.135	.076	.037	.116	.066	.032	.080	.047	.023	.047	.028	.014	.015	.009	.005	
10.0	.129	.072	.034	.111	.063	.030	.077	.044	.021	.045	.026	.013	.015	.009	.004	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm										
NAME: 015015					TYPE:015015			WEIGHT:		
SPEC.:1000*15*15					DIM.: 1000*15*15			SERIAL No.:3#		
MFR.: BLUEVISION					SUR.:1000*15			Shielding Angle:		
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	21.0	22.4	21.2	22.7	22.9	21.0	22.5	21.3	22.7	23.0
3H	22.3	23.7	22.6	23.9	24.2	22.3	23.7	22.6	24.0	24.2
4H	22.7	24.1	23.1	24.3	24.6	22.7	24.0	23.0	24.3	24.6
6H	23.0	24.2	23.4	24.5	24.9	22.8	24.1	23.2	24.4	24.7
8H	23.1	24.3	23.4	24.6	24.9	22.8	24.0	23.2	24.3	24.6
12H	23.1	24.2	23.5	24.6	24.9	22.7	23.9	23.1	24.2	24.6
4H 2H	21.6	22.9	21.9	23.2	23.4	21.6	22.9	21.9	23.2	23.5
3H	23.1	24.2	23.4	24.5	24.9	23.2	24.3	23.5	24.6	25.0
4H	23.6	24.7	24.0	25.0	25.4	23.7	24.8	24.1	25.1	25.5
6H	24.0	24.9	24.4	25.3	25.7	24.0	24.9	24.4	25.3	25.7
8H	24.1	25.0	24.5	25.4	25.8	24.0	24.9	24.4	25.3	25.7
12H	24.2	25.0	24.6	25.4	25.8	24.0	24.8	24.4	25.2	25.6
8H 4H	23.9	24.8	24.3	25.2	25.6	24.0	24.8	24.4	25.2	25.6
6H	24.4	25.1	24.8	25.5	26.0	24.4	25.1	24.9	25.6	26.0
8H	24.5	25.2	25.0	25.6	26.1	24.5	25.1	25.0	25.6	26.1
12H	24.6	25.2	25.1	25.7	26.2	24.5	25.1	25.0	25.6	26.1
12H 4H	23.9	24.7	24.3	25.1	25.5	23.9	24.7	24.4	25.2	25.6
6H	24.4	25.1	24.9	25.5	26.0	24.4	25.1	24.9	25.5	26.0
8H	24.6	25.2	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.6				

CIE Pub.117, 565.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.0)  
Area: 0.015 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

### UTILIZATION FACTORS TABLE

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:

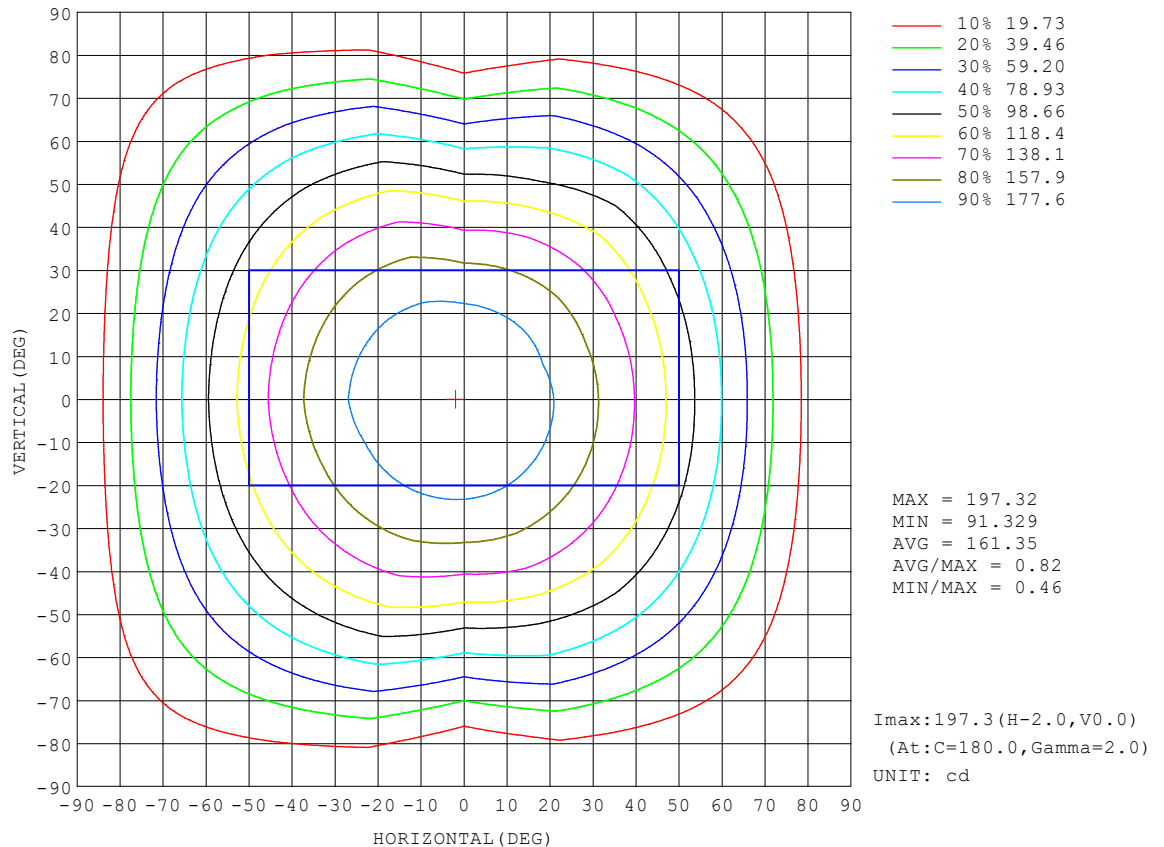
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	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					SHRNM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

## ISOCANDELA DIAGRAM

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:



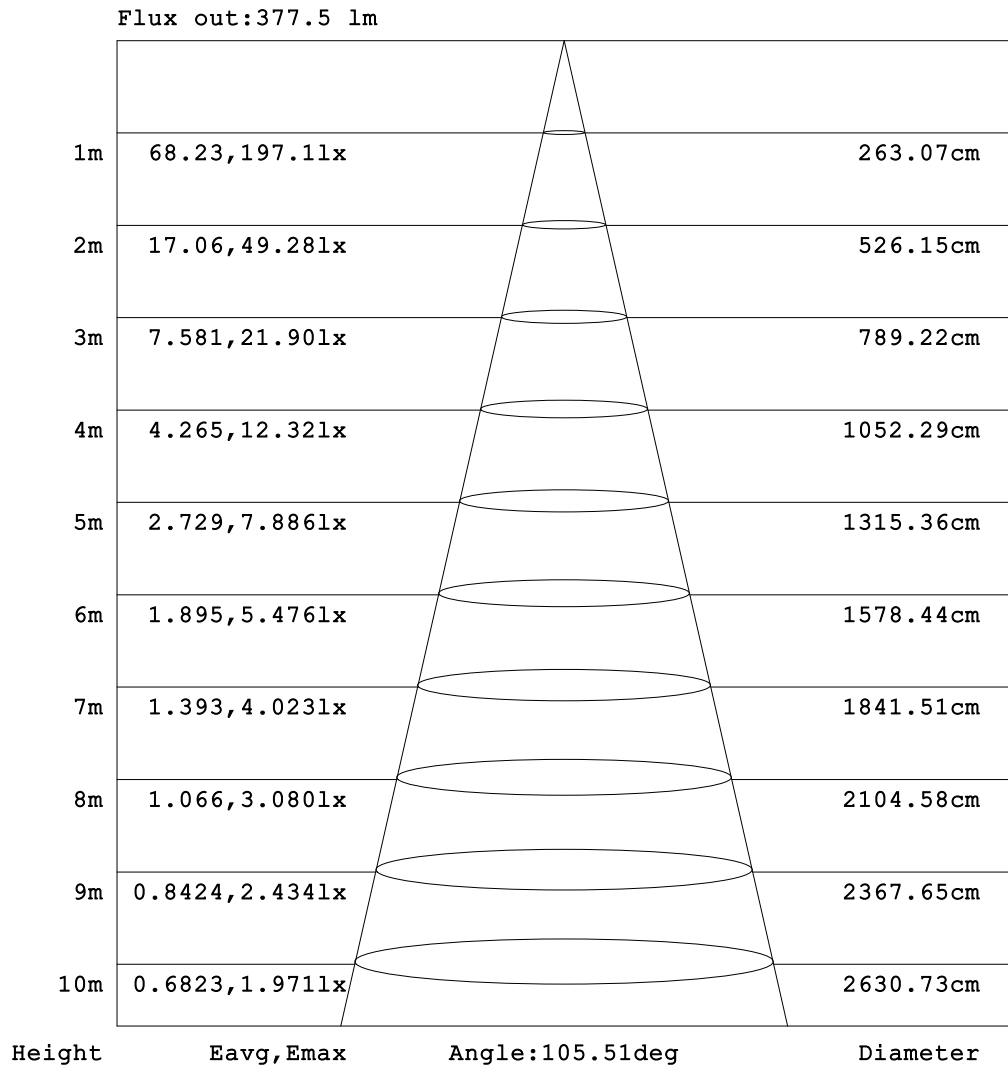
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015



AAI Figure

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:



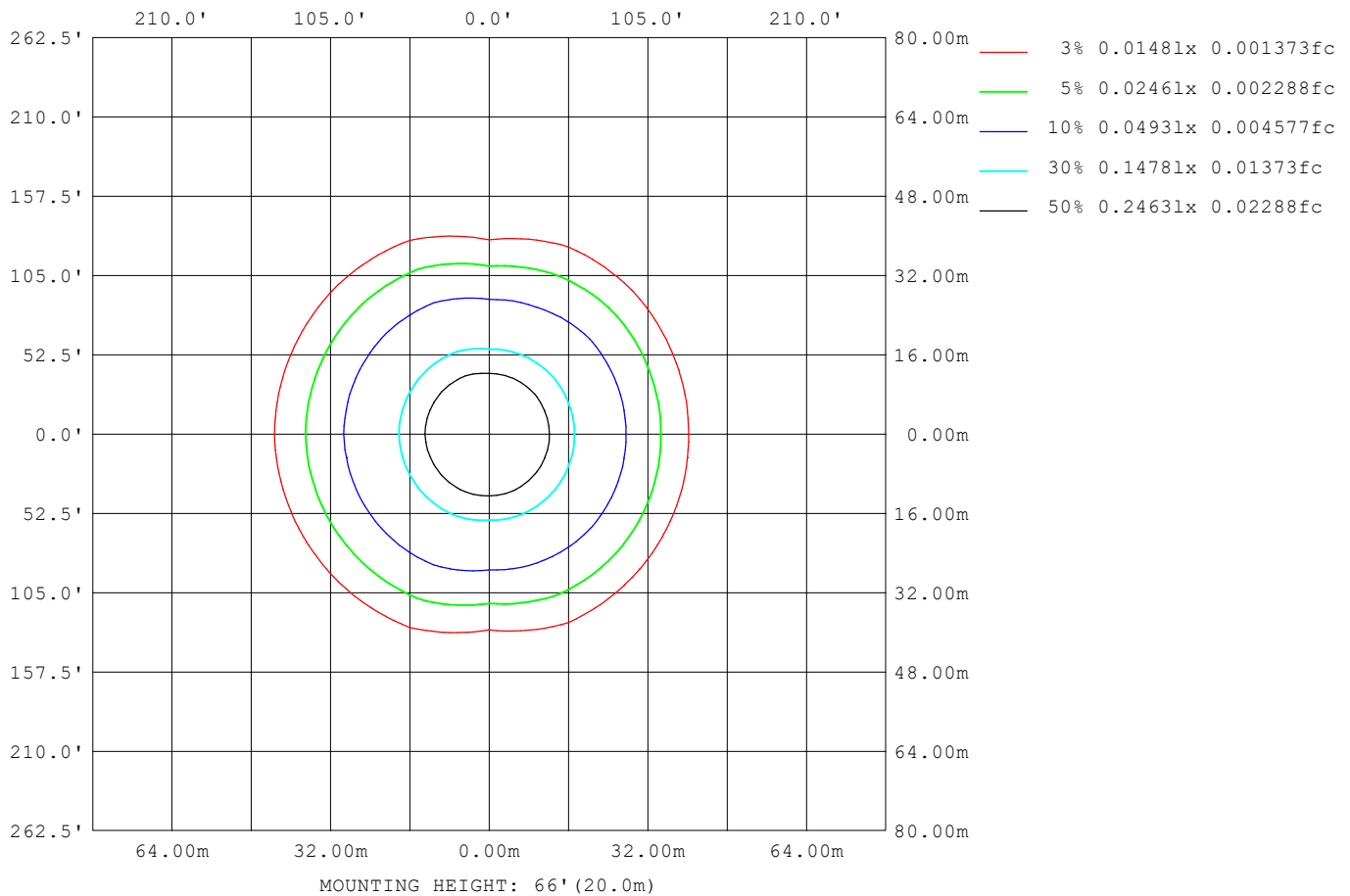
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

## ISOLUX DIAGRAM

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

## LED Avg.L Report

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:

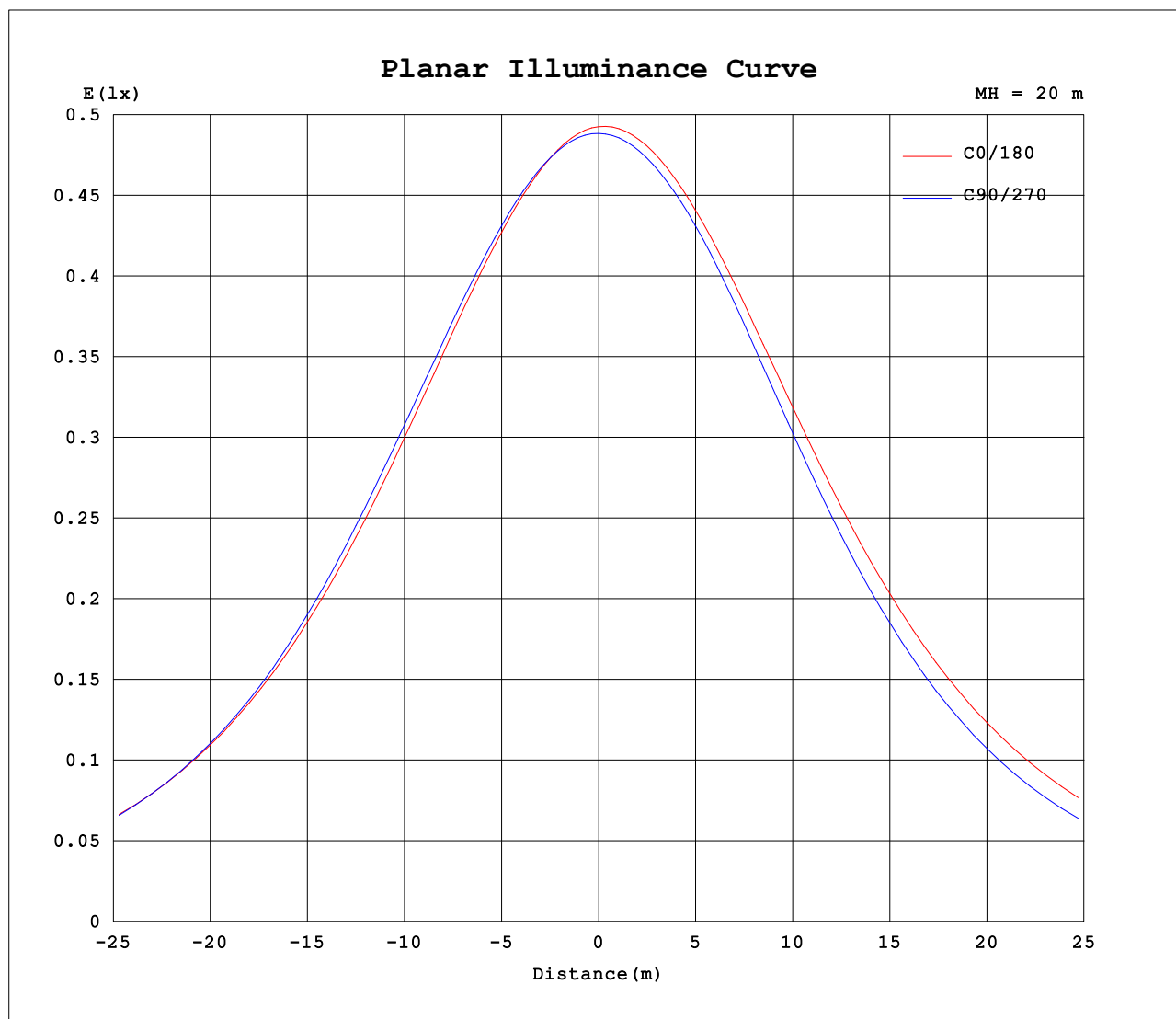
AvgL	cd/m2
L_0~180 (65) av	11204
L_0~180 (75) av	9878
L_0~180 (85) av	8849
L_90~270 (65) av	8937
L_90~270 (75) av	5799
L_90~270 (85) av	445
L_45 (65) av	11292
L_45 (75) av	9916
L_45 (85) av	8018

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LI  
 Test Date:2019-07-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
 Humidity:65.0%  
 Test Distance:9.650m [K=1.0000]  
 Remarks: S2835L120B24WW30K8IP67-10-015015

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: LI  
Test Date: 2019-07-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity: 65.0%  
Test Distance: 9.650m [K=1.0000]  
Remarks: S2835L120B24WW30K8IP67-10-015015

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.4116A P:9.8784W PF:1.0000 Freq:0Hz Lamp Flux:565.751x1 lm		
NAME: 015015	TYPE:015015	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.: BLUEVISION	SUR.:1000*15	Shielding Angle:

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	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196			
5	194	194	194	195	195	195	195	196	196	196	195	195	195	194	194	194			
10	190	190	191	192	192	193	193	194	194	194	193	193	192	192	191	190			
15	185	185	186	187	188	189	190	190	191	190	190	189	188	187	186	185			
20	178	179	180	181	182	183	184	185	186	185	185	183	182	180	180	178			
25	169	170	172	174	175	176	178	179	179	179	178	176	173	172	172	170			
30	159	161	162	164	166	168	169	170	171	170	170	168	162	162	162	161			
35	148	150	152	154	154	158	159	161	162	161	160	158	150	151	151	150			
40	136	138	140	142	140	147	148	150	151	150	149	147	136	139	139	138			
45	123	125	127	128	125	134	136	137	139	138	136	134	122	124	126	124			
50	109	110	113	112	109	120	122	124	125	124	123	121	106	108	113	110			
55	93.8	95.5	97.7	96.3	92.6	106	108	110	111	110	109	106	89.9	92.3	98.2	95.4			
60	78.0	79.7	82.1	82.9	75.3	90.4	92.6	94.7	96.2	95.2	93.6	90.3	73.0	80.1	82.5	79.6			
65	61.6	63.5	65.8	68.4	57.5	74.2	76.6	78.9	80.4	79.3	77.8	74.3	55.8	67.3	66.2	63.3			
70	45.1	46.9	49.2	52.0	39.7	57.5	60.0	62.4	64.0	62.9	61.3	57.9	38.6	51.5	49.5	46.7			
75	29.3	30.9	32.9	35.4	22.8	40.8	43.4	45.9	47.4	46.3	44.6	41.4	22.2	35.0	33.1	30.6			
80	15.5	16.8	18.1	19.9	8.18	24.6	27.3	29.7	31.2	30.1	28.5	25.3	8.11	19.5	18.1	16.5			
85	6.37	6.75	7.12	7.63	0.65	10.9	13.4	15.5	16.8	15.9	14.3	11.2	0.51	7.12	7.11	6.84			
90	2.71	2.64	2.44	1.92	0.06	2.52	4.34	5.86	6.65	6.04	4.91	2.55	0.08	1.62	2.55	2.87			
95	2.43	2.48	2.26	1.46	0.15	0.95	1.68	2.13	2.46	2.35	2.01	1.02	0.13	1.04	2.10	2.62			
100	2.41	2.34	1.92	1.29	0.28	0.97	1.49	1.40	1.34	1.54	1.57	0.99	0.27	0.87	1.81	2.47			
105	2.09	1.98	1.75	1.16	0.29	1.01	1.42	1.35	1.25	1.40	1.45	0.99	0.30	0.85	1.56	2.04			
110	1.88	1.87	1.70	0.89	0.33	1.08	1.35	1.36	1.27	1.38	1.39	0.99	0.36	0.76	1.46	1.74			
115	1.82	1.78	1.37	0.62	0.43	1.15	1.42	1.40	1.31	1.38	1.33	0.99	0.46	0.62	1.29	1.75			
120	1.78	1.57	1.08	0.67	0.53	1.17	1.43	1.42	1.32	1.38	1.32	0.98	0.57	0.59	1.10	1.69			
125	1.75	1.42	0.92	0.77	0.64	1.17	1.43	1.42	1.32	1.38	1.32	0.98	0.67	0.66	1.10	1.49			
130	1.68	1.31	0.99	0.84	0.74	1.17	1.44	1.42	1.30	1.38	1.32	0.98	0.77	0.74	1.10	1.49			
135	1.59	1.26	1.07	0.93	0.84	1.17	1.44	1.42	1.31	1.38	1.32	1.02	0.87	0.83	1.12	1.40			
140	1.57	1.29	1.10	1.01	0.93	1.19	1.42	1.41	1.35	1.38	1.32	1.07	0.97	0.92	1.14	1.35			
145	1.57	1.31	1.12	1.19	1.18	1.22	1.39	1.39	1.35	1.38	1.32	1.13	1.12	1.09	1.15	1.33			
150	1.54	1.32	1.16	1.45	1.26	1.25	1.36	1.36	1.35	1.38	1.32	1.17	1.21	1.25	1.20	1.34			
155	1.48	1.33	1.41	1.50	1.32	1.32	1.34	1.36	1.35	1.36	1.34	1.23	1.28	1.29	1.39	1.32			
160	1.45	1.38	1.48	1.49	1.37	1.37	1.34	1.36	1.35	1.35	1.36	1.28	1.33	1.34	1.43	1.33			
165	1.46	1.44	1.48	1.49	1.40	1.43	1.35	1.39	1.39	1.35	1.41	1.33	1.40	1.38	1.47	1.38			
170	1.48	1.52	1.48	1.49	1.43	1.47	1.40	1.43	1.44	1.40	1.46	1.39	1.45	1.42	1.48	1.46			
175	1.49	1.49	1.49	1.49	1.46	1.47	1.44	1.48	1.48	1.43	1.48	1.43	1.48	1.44	1.48	1.47			
180	1.49	1.49	1.49	1.49	1.47	1.47	1.47	1.48	1.47	1.48	1.49	1.47	1.48	1.46	1.48	1.48			

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