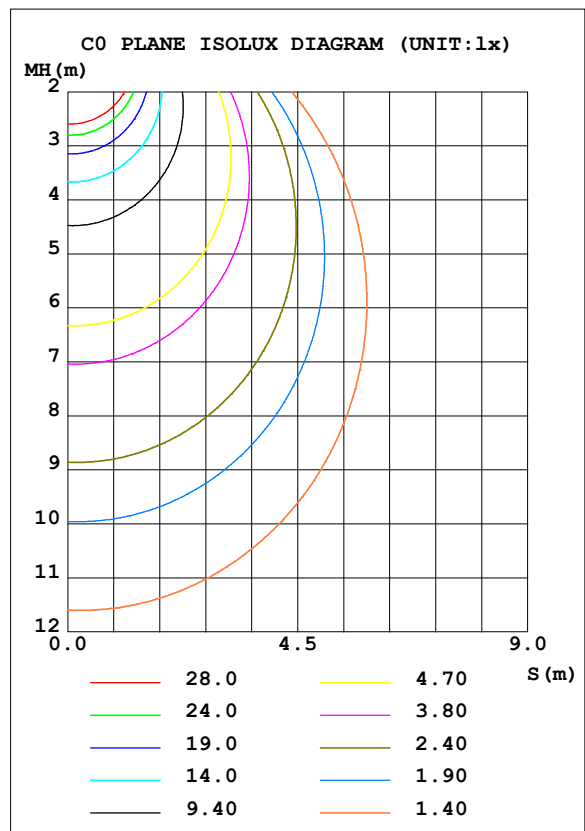
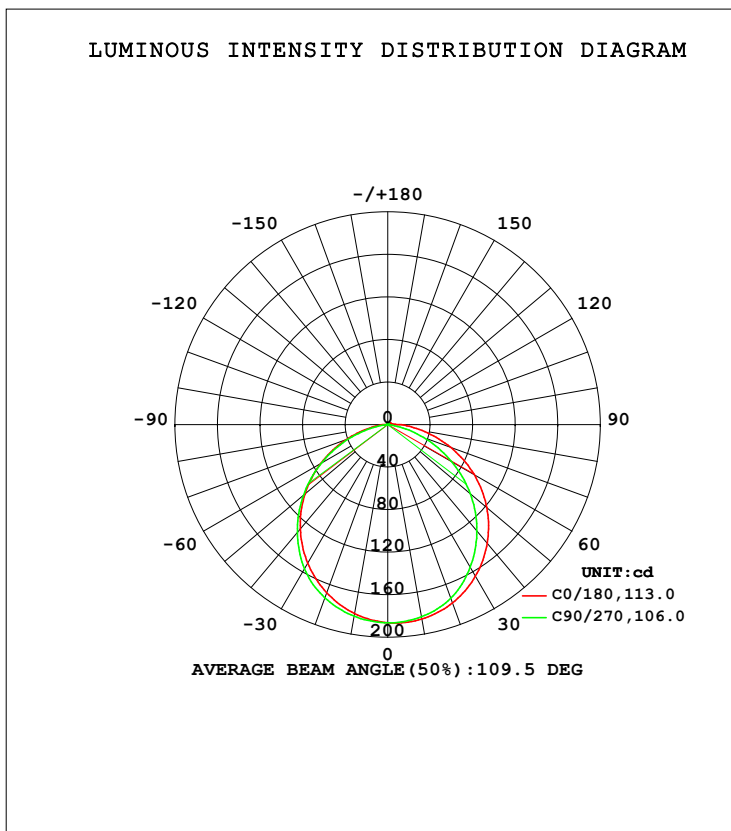


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	SUR.:1000*15	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	015015C	Imax (cd)	186.9	S/MH (C0/180)	1.21
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	542.96	η UP, DN (C0-180)	1.0, 49.7
NOMINAL FLUX (lm)	542.957	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 48.5
LAMPS INSIDE	1	η up (%)	1.8	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	24	η down (%)	98.2	CIBSE SHR MAX	1.35



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: S2835L120C24WW30K8IP67-10-015015C



**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	185.6	185.4	183.4	181.1	180.4	180.8	182.9	185.1	0- 10	17.63	17.63	3.25,3.25
20	178.3	177.8	173.8	169.7	168.2	168.9	173.2	177.5	10- 20	50.53	68.16	12.6,12.6
30	164.8	163.9	155.0	152.6	150.5	151.5	156.6	163.8	20- 30	76.60	144.8	26.7,26.7
40	145.6	144.3	130.5	130.6	128.0	129.2	132.2	144.7	30- 40	92.24	237.0	43.6,43.6
50	121.7	120.2	101.5	104.6	101.6	102.9	103.6	120.8	40- 50	95.35	332.3	61.2,61.2
60	93.79	91.81	69.23	75.22	72.40	73.49	71.71	92.86	50- 60	85.68	418.0	77,77
70	63.09	60.51	35.94	44.11	41.85	42.66	38.60	62.28	60- 70	65.24	483.3	89,89
80	32.81	29.57	7.015	15.84	15.22	15.06	9.182	31.79	70- 80	37.16	520.4	95.9,95.9
90	11.30	8.263	0.0892	2.737	3.306	2.790	0.1081	9.221	80- 90	12.60	533.0	98.2,98.2
100	3.766	2.901	0.2672	1.205	1.324	1.406	0.2737	2.919	90-100	2.975	536.0	98.7,98.7
110	3.027	2.210	0.3053	1.078	1.237	1.336	0.3440	2.127	100-110	1.747	537.8	99,99
120	2.442	1.266	0.4963	1.256	1.255	1.393	0.5347	1.199	110-120	1.364	539.1	99.3,99.3
130	1.877	0.9625	0.7001	1.326	1.343	1.412	0.7259	1.007	120-130	1.085	540.2	99.5,99.5
140	1.532	0.9433	0.8911	1.333	1.356	1.380	0.9231	0.9564	130-140	0.8990	541.1	99.7,99.7
150	1.255	1.070	1.152	1.313	1.318	1.368	1.146	1.071	140-150	0.7501	541.9	99.8,99.8
160	1.318	1.330	1.279	1.313	1.343	1.387	1.286	1.365	150-160	0.5902	542.4	99.9,99.9
170	1.368	1.368	1.356	1.358	1.412	1.431	1.394	1.403	160-170	0.3822	542.8	100,100
180	1.400	1.412	1.388	1.396	1.412	1.437	1.407	1.403	170-180	0.1334	543.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

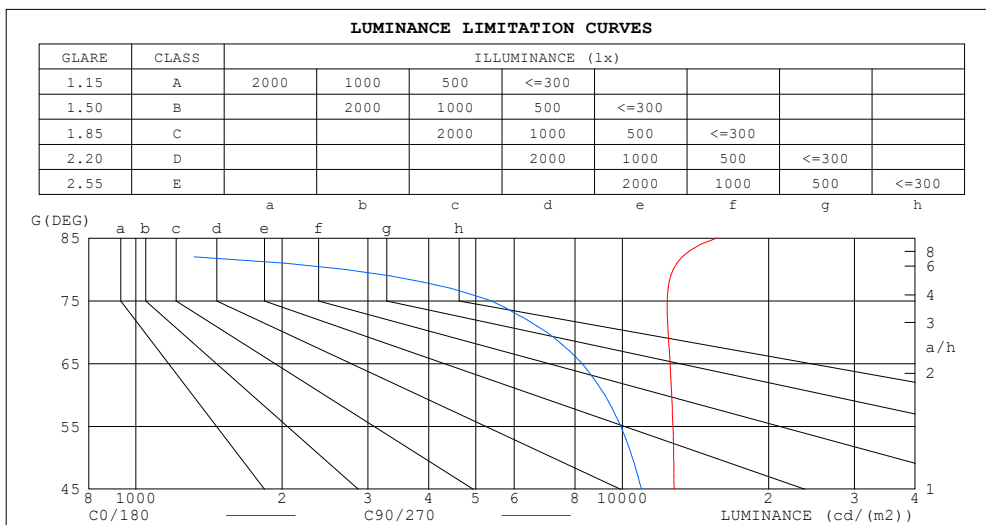
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

$\gamma$  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: S2835L120C24WW30K8IP67-10-015015C



**LUMINANCE LIMITATION CURVES**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	SUR.:1000*15	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	15662	359
80	12732	2684
75	12378	5368
70	12430	6984
65	12542	8265
60	12640	9201
55	12712	9925
50	12761	10496
45	12786	10953

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

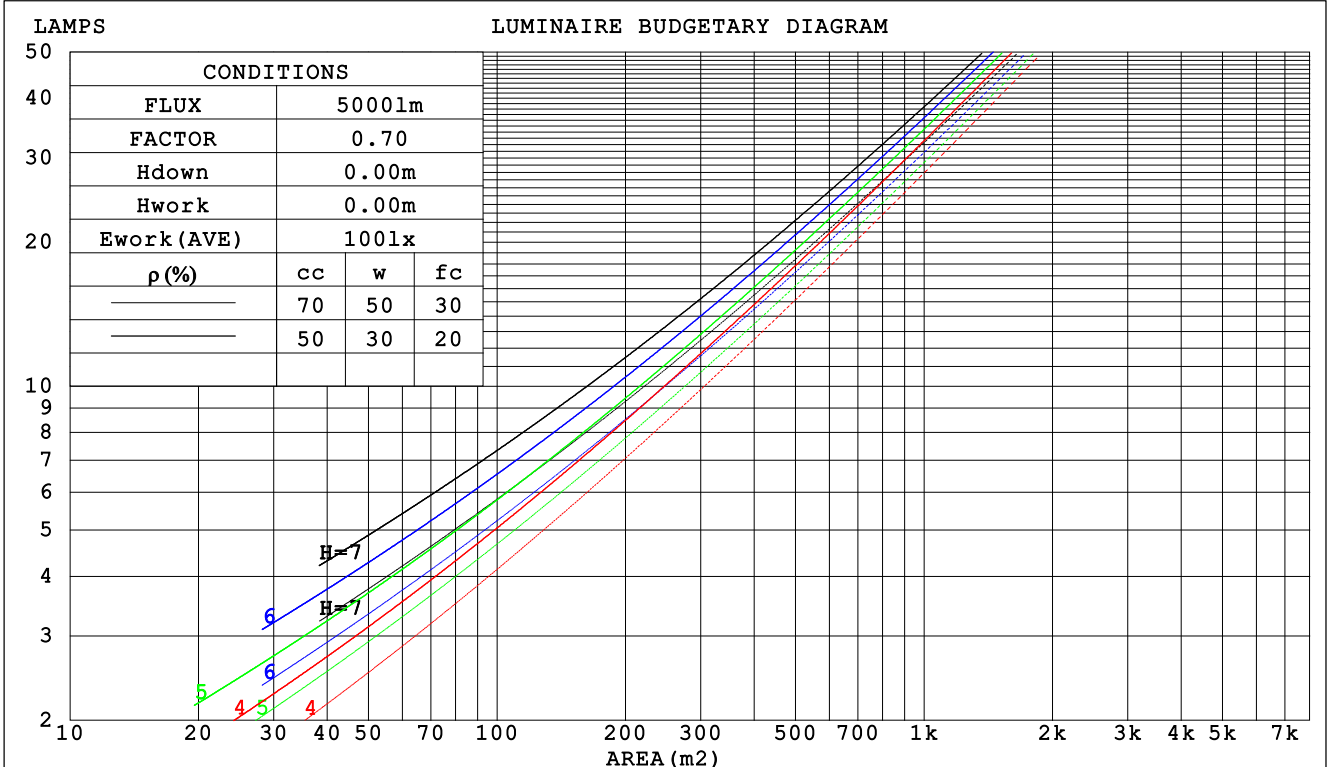
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
Humidity:65.0%  
Test Distance:9.650m [K=1.0000]  
Remarks: S2835L120C24WW30K8IP67-10-015015C



**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	SUR.:1000*15	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	ρw	30%	10%	ρw	30%	10%	ρw	30%	10%	ρw	30%	10%	ρw	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	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.44	.39	.49	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.32
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.41	.35	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.36	.30	.26	.35	.30	.25	.24



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: S2835L120C24WW30K8IP67-10-015015C



**WEC AND CCEC**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	SUR.:1000*15	Shielding Angle:

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 Coefficients (WEC)									
0.0																
1.0	.313	.178	.056	.306	.174	.055	.291	.167	.053	.278	.160	.051	.266	.154	.050	
2.0	.293	.160	.049	.286	.158	.049	.273	.152	.047	.262	.147	.046	.251	.142	.045	
3.0	.270	.144	.043	.264	.142	.043	.253	.137	.042	.243	.133	.041	.233	.129	.040	
4.0	.249	.129	.038	.244	.128	.038	.234	.124	.037	.225	.121	.036	.216	.117	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.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	.199	.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	.169	.086	.025	.164	.084	.024	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.146	.073	.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	.204	.204	.204	.175	.175	.175	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.195	.170	.148	.166	.146	.127	.114	.100	.088	.066	.058	.051	.021	.019	.017	
2.0	.187	.146	.112	.160	.126	.097	.109	.087	.068	.063	.051	.040	.020	.016	.013	
3.0	.179	.129	.088	.153	.111	.077	.105	.077	.054	.061	.045	.032	.020	.015	.010	
4.0	.171	.115	.073	.147	.100	.063	.101	.069	.044	.058	.041	.026	.019	.013	.009	
5.0	.164	.105	.062	.141	.091	.054	.097	.063	.038	.056	.037	.022	.018	.012	.007	
6.0	.157	.097	.054	.135	.084	.047	.093	.059	.033	.054	.034	.020	.017	.011	.006	
7.0	.150	.090	.048	.129	.078	.042	.089	.055	.029	.052	.032	.018	.017	.011	.006	
8.0	.143	.084	.043	.123	.073	.038	.085	.051	.027	.050	.030	.016	.016	.010	.005	
9.0	.137	.079	.040	.118	.069	.035	.082	.048	.025	.048	.028	.015	.015	.009	.005	
10.0	.132	.075	.037	.113	.065	.032	.079	.046	.023	.046	.027	.014	.015	.009	.005	

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: S2835L120C24WW30K8IP67-10-015015C





**UGR(Unified Glare Rating) Table**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm										
NAME: NLE1515SBNF					TYPE:015015C			WEIGHT:		
SPEC.:1000*15*15					DIM.: 1000*15*15			SERIAL No.:3#		
MFR.:					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	22.0	23.5	22.3	23.8	24.0	21.1	22.6	21.4	22.9	23.1
3H	23.8	25.2	24.1	25.4	25.7	22.5	23.8	22.8	24.1	24.4
4H	24.5	25.9	24.9	26.1	26.4	22.9	24.2	23.2	24.5	24.7
6H	25.2	26.4	25.6	26.7	27.1	23.0	24.2	23.4	24.5	24.9
8H	25.5	26.7	25.9	27.0	27.3	23.0	24.2	23.3	24.5	24.8
12H	25.7	26.9	26.1	27.2	27.6	22.9	24.1	23.3	24.4	24.8
4H 2H	22.6	24.0	23.0	24.2	24.5	22.0	23.3	22.3	23.6	23.9
3H	24.6	25.7	25.0	26.1	26.4	23.6	24.7	24.0	25.1	25.4
4H	25.5	26.6	25.9	26.9	27.3	24.2	25.3	24.6	25.6	26.0
6H	26.3	27.3	26.7	27.6	28.0	24.5	25.5	25.0	25.8	26.3
8H	26.7	27.5	27.1	28.0	28.4	24.6	25.4	25.0	25.8	26.3
12H	27.0	27.8	27.5	28.2	28.7	24.5	25.3	25.0	25.8	26.2
8H 4H	25.8	26.7	26.2	27.1	27.5	24.7	25.5	25.1	25.9	26.4
6H	26.8	27.5	27.3	28.0	28.4	25.3	26.0	25.7	26.4	26.9
8H	27.3	27.9	27.8	28.4	28.9	25.4	26.1	25.9	26.5	27.0
12H	27.8	28.3	28.3	28.8	29.3	25.5	26.1	26.0	26.5	27.1
12H 4H	25.8	26.6	26.3	27.0	27.5	24.7	25.5	25.2	26.0	26.4
6H	26.9	27.5	27.4	28.0	28.5	25.4	26.1	25.9	26.5	27.0
8H	27.4	28.0	27.9	28.5	29.0	25.7	26.2	26.2	26.7	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.5				
2.0H	+ 0.1 / - 0.3					+ 0.3 / - 0.6				

CIE Pub.117, 543.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.1)  
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: S2835L120C24WW30K8IP67-10-015015C



**UTILIZATION FACTORS TABLE**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	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	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	74	68	61
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	101	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

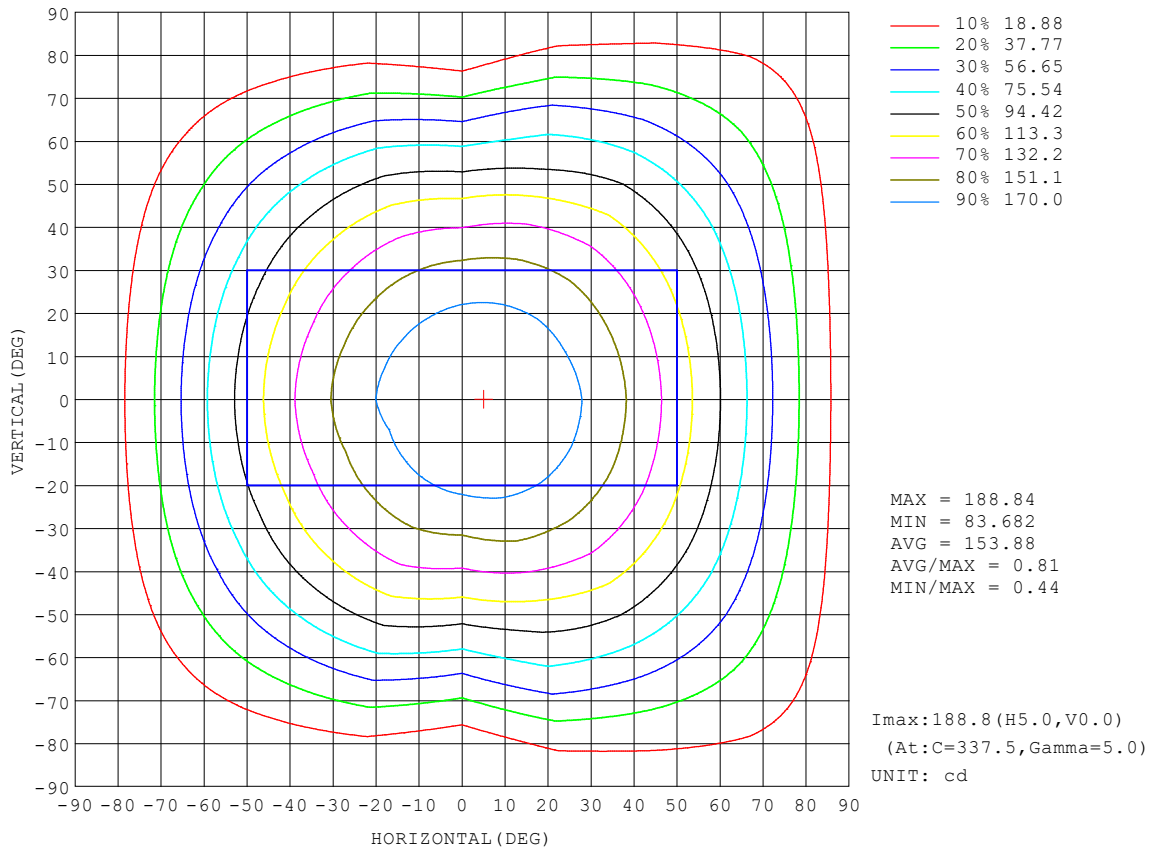
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

$\gamma$  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: S2835L120C24WW30K8IP67-10-015015C



**ISOCANDELA DIAGRAM**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	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

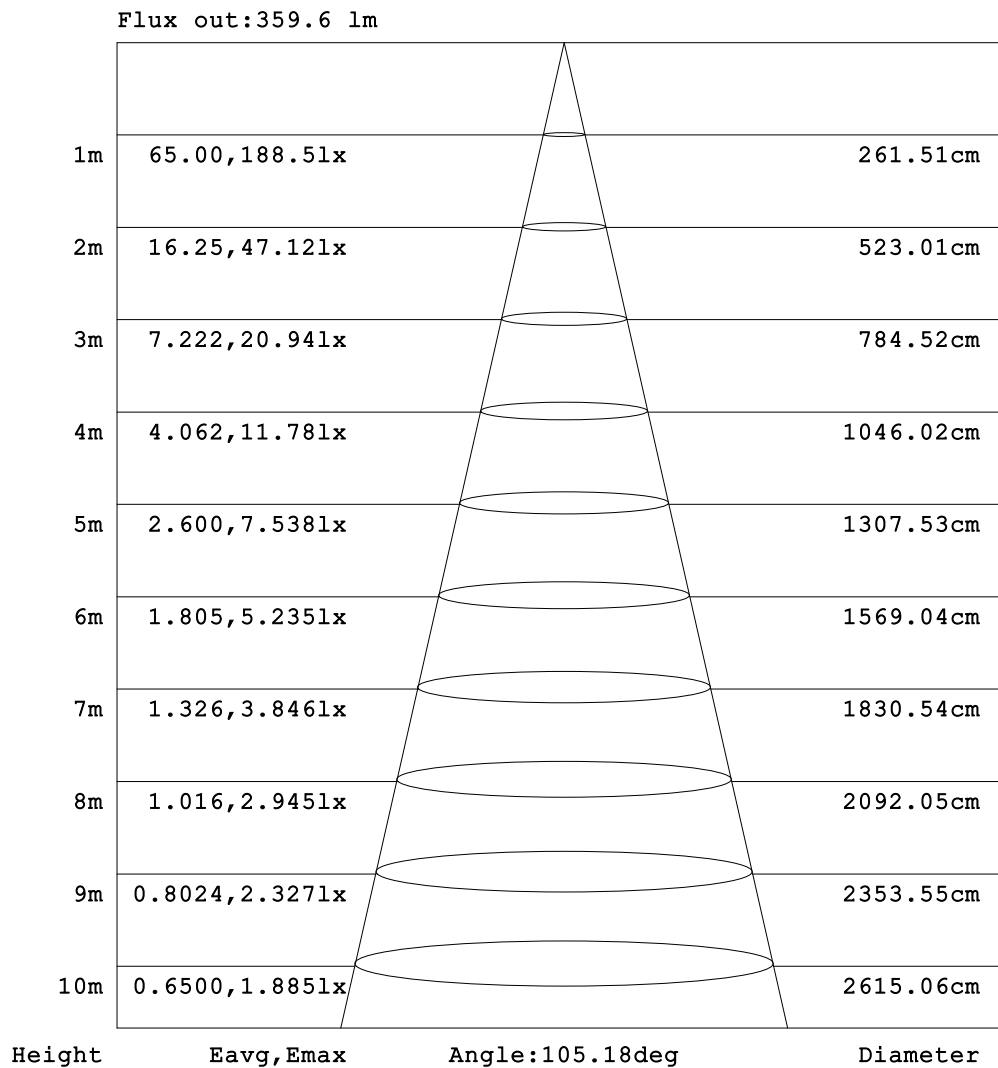
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.412  
 Humidity:65.0%  
 Test Distance:9.650m [K=1.0000]  
 Remarks: S2835L120C24WW30K8IP67-10-015015C





**AAI Figure**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	SUR.:1000*15	Shielding Angle:



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

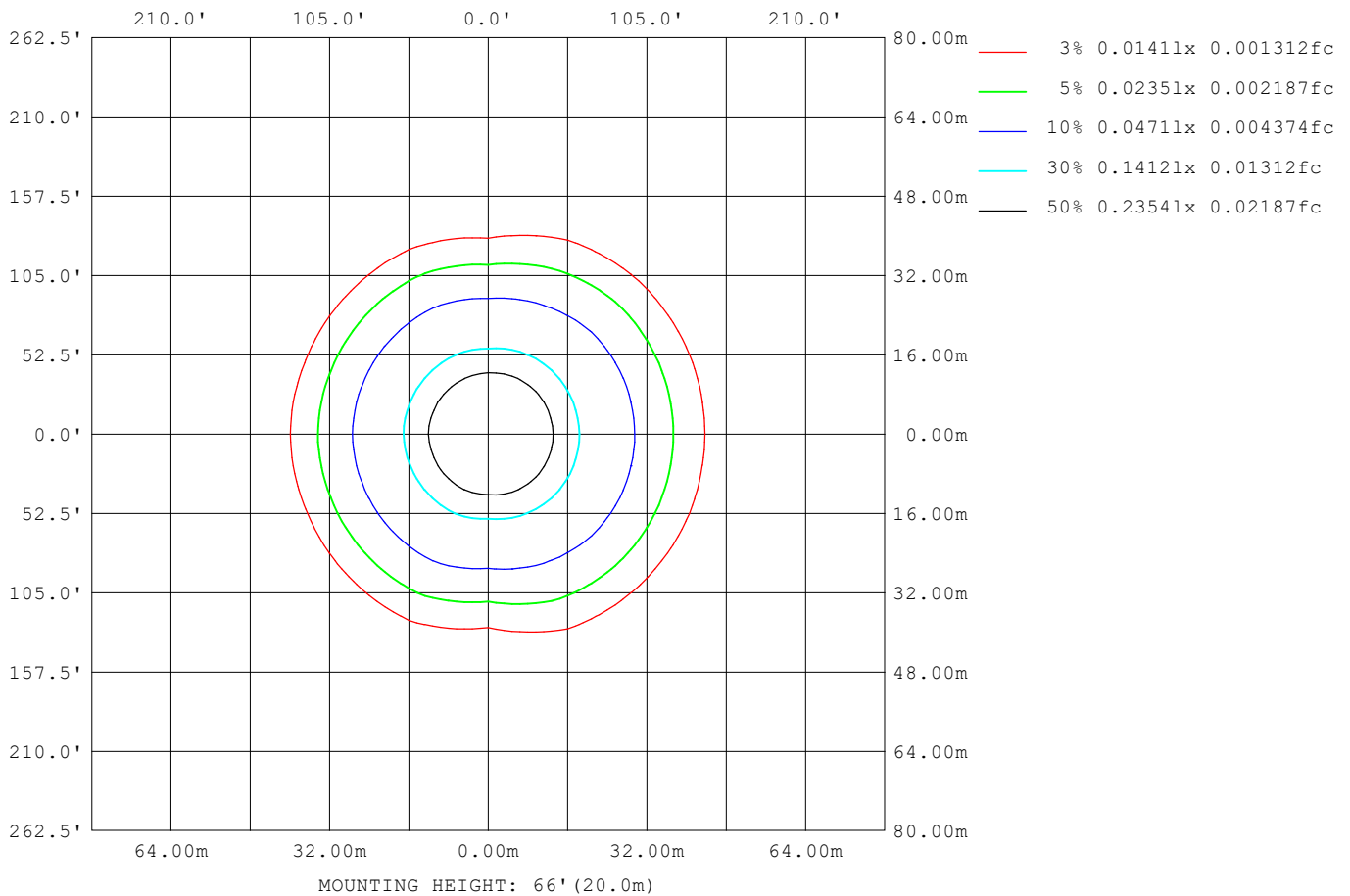
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LI  
Test Date:2019-07-04

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: S2835L120C24WW30K8IP67-10-015015C



**ISOLUX DIAGRAM**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	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

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: S2835L120C24WW30K8IP67-10-015015C



**LED Avg.L Report**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	SUR.:1000*15	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	10711
L_0~180 (75) av	9648
L_0~180 (85) av	10673
L_90~270 (65) av	8501
L_90~270 (75) av	5616
L_90~270 (85) av	750
L_45 (65) av	10729
L_45 (75) av	9551
L_45 (85) av	9431

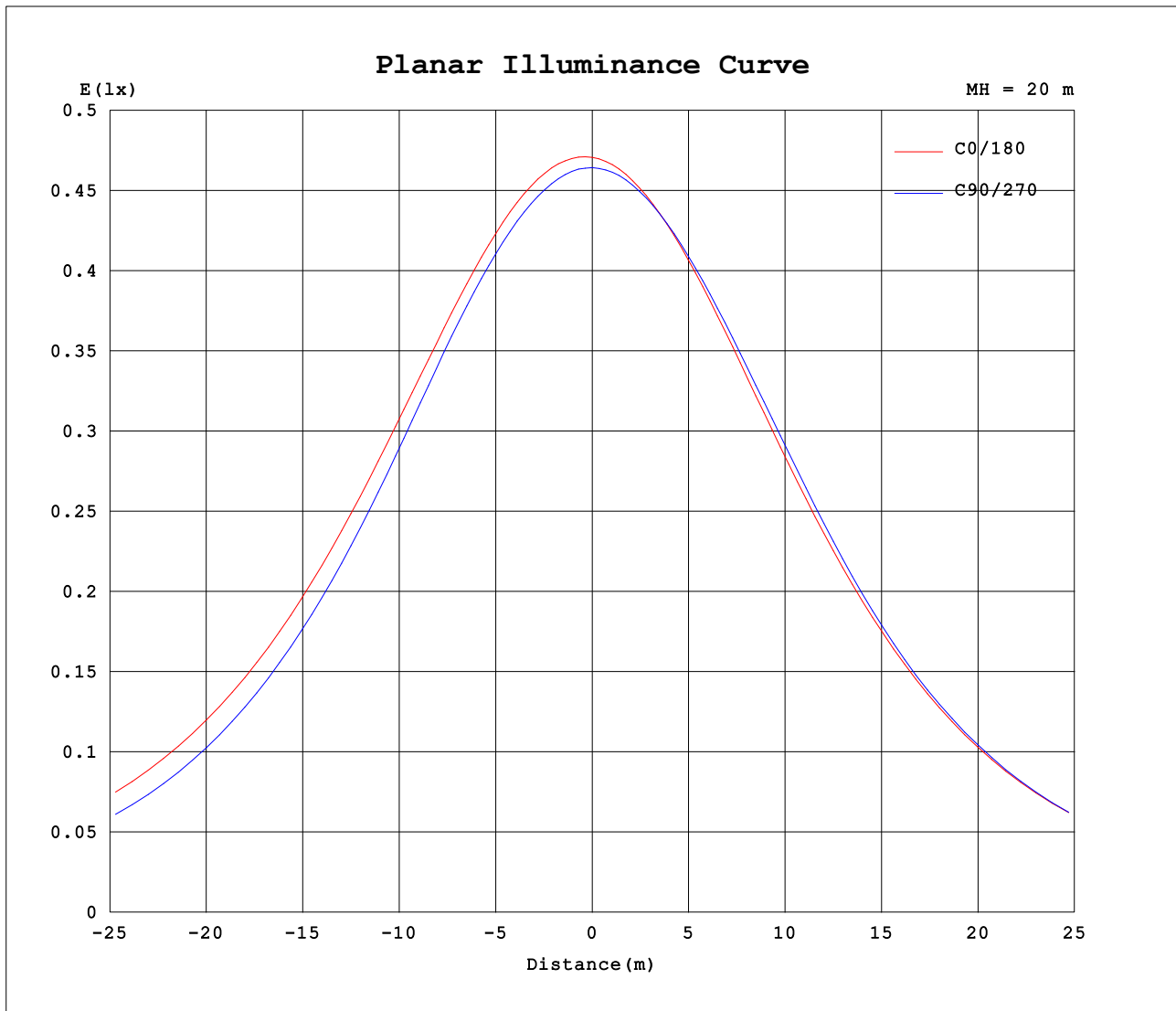
Standard: GB/T 29293-2012

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: S2835L120C24WW30K8IP67-10-015015C



**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: S2835L120C24WW30K8IP67-10-015015C



**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:24.000V I:0.4176A P:10.022W PF:1.0000 Freq:0Hz Lamp Flux:542.957x1 lm		
NAME: NLE1515SBNF	TYPE:015015C	WEIGHT:
SPEC.:1000*15*15	DIM.: 1000*15*15	SERIAL No.:3#
MFR.:	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	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186			
5	187	187	187	186	186	185	184	184	184	184	184	185	185	186	186	187			
10	186	186	185	185	183	182	181	180	180	180	181	182	183	184	185	186			
15	183	183	182	181	180	178	176	175	175	175	176	177	179	181	182	183			
20	178	179	178	176	174	172	170	168	168	168	169	171	173	176	178	178			
25	172	173	172	169	165	164	162	160	160	160	161	163	166	169	171	173			
30	165	165	164	161	155	155	153	151	150	150	151	154	157	161	164	165			
35	156	156	155	151	143	145	142	140	140	139	141	144	145	151	155	156			
40	146	146	144	139	131	134	131	128	128	127	129	132	132	140	145	146			
45	134	135	133	125	117	122	118	116	115	115	116	120	118	127	133	135			
50	122	122	120	111	102	108	105	102	102	101	103	106	104	112	121	123			
55	108	108	106	97.5	85.7	94.1	90.2	87.7	87.3	86.6	88.5	91.9	87.9	96.7	107	109			
60	93.8	93.8	91.8	86.0	69.2	79.0	75.2	72.8	72.4	71.7	73.5	76.8	71.7	83.8	92.9	94.7			
65	78.7	78.6	76.4	72.5	52.6	63.3	59.7	57.4	57.1	56.3	58.1	61.2	55.2	71.9	77.8	79.7			
70	63.1	62.9	60.5	56.8	35.9	47.3	44.1	42.1	41.9	41.1	42.7	45.4	38.6	56.5	62.3	64.2			
75	47.5	47.2	44.7	40.7	20.9	31.5	29.0	27.5	27.4	26.7	27.9	30.2	22.7	40.8	46.7	48.7			
80	32.8	32.3	29.6	25.4	7.01	17.0	15.8	15.4	15.2	14.6	15.1	16.3	9.18	26.4	31.8	33.9			
85	20.3	19.7	16.7	12.3	0.47	6.07	7.14	7.74	7.65	7.28	6.74	6.02	1.49	13.4	18.7	21.1			
90	11.3	10.8	8.26	4.35	0.09	1.47	2.74	3.33	3.31	3.23	2.79	1.83	0.11	4.48	9.22	11.7			
95	5.54	5.28	3.75	1.89	0.16	0.76	1.47	1.64	1.53	1.70	1.56	1.12	0.11	1.82	4.07	5.68			
100	3.77	3.56	2.90	1.57	0.27	0.74	1.21	1.41	1.32	1.52	1.41	1.07	0.27	1.54	2.92	3.66			
105	3.36	3.18	2.55	1.28	0.29	0.79	1.13	1.33	1.24	1.42	1.36	1.06	0.27	1.27	2.49	3.26			
110	3.03	2.86	2.21	0.91	0.31	0.90	1.08	1.33	1.24	1.37	1.34	1.06	0.34	1.03	2.13	2.93			
115	2.72	2.57	1.75	0.59	0.40	0.95	1.19	1.33	1.24	1.36	1.37	1.07	0.44	0.66	1.67	2.53			
120	2.44	2.28	1.27	0.61	0.50	0.98	1.26	1.34	1.26	1.36	1.39	1.07	0.53	0.59	1.20	2.21			
125	2.12	1.88	1.04	0.67	0.60	1.01	1.29	1.38	1.30	1.36	1.41	1.07	0.62	0.59	1.07	1.77			
130	1.88	1.49	0.96	0.78	0.70	1.05	1.33	1.39	1.34	1.37	1.41	1.07	0.73	0.63	1.01	1.59			
135	1.70	1.26	0.93	0.86	0.80	1.10	1.33	1.39	1.35	1.41	1.41	1.09	0.82	0.73	0.96	1.37			
140	1.53	1.16	0.94	0.95	0.89	1.13	1.33	1.39	1.36	1.44	1.38	1.12	0.92	0.83	0.96	1.23			
145	1.38	1.17	0.97	1.10	1.09	1.18	1.33	1.36	1.33	1.44	1.37	1.17	1.08	1.05	0.99	1.13			
150	1.26	1.19	1.07	1.31	1.15	1.22	1.31	1.36	1.32	1.44	1.37	1.20	1.15	1.20	1.07	1.08			
155	1.26	1.25	1.27	1.33	1.22	1.29	1.31	1.36	1.32	1.39	1.37	1.24	1.22	1.25	1.35	1.10			
160	1.32	1.32	1.33	1.37	1.28	1.34	1.31	1.36	1.34	1.37	1.39	1.27	1.29	1.26	1.36	1.17			
165	1.36	1.35	1.36	1.40	1.31	1.38	1.32	1.38	1.37	1.37	1.40	1.31	1.35	1.31	1.40	1.26			
170	1.37	1.43	1.37	1.42	1.36	1.40	1.36	1.40	1.41	1.37	1.43	1.35	1.39	1.36	1.40	1.35			
175	1.40	1.44	1.39	1.42	1.37	1.40	1.38	1.40	1.42	1.41	1.44	1.39	1.41	1.38	1.40	1.38			
180	1.40	1.44	1.41	1.42	1.39	1.40	1.40	1.40	1.41	1.43	1.44	1.40	1.41	1.40	1.40	1.40			

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
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Operators:LI  
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