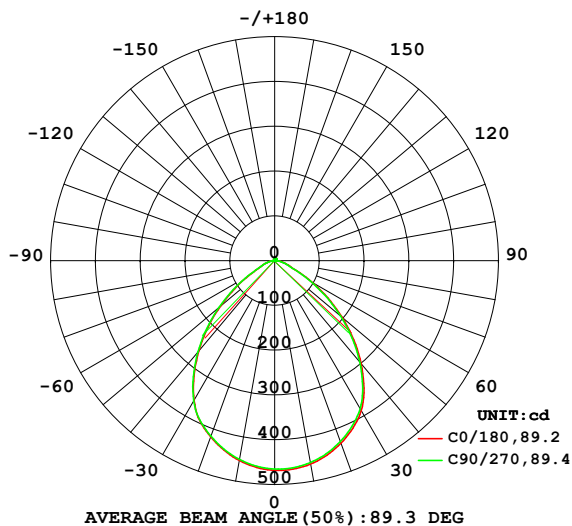


LUMINAIRE PHOTOMETRIC TEST REPORT

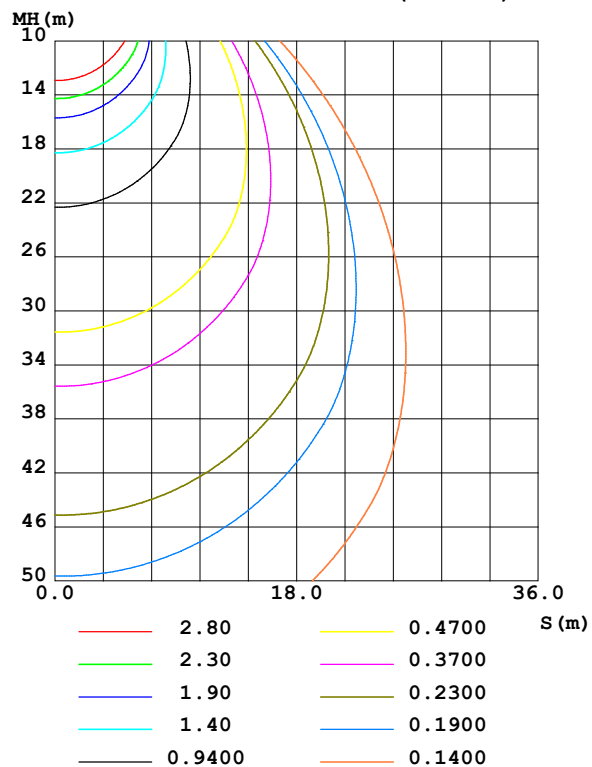
Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.56 lm/W			
MODEL		I _{max} (cd)	468.5	S/MH(C0/180)	1.15
NOMINAL POWER(W)	9.8	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	941.26	η UP,DN(C0-180)	0.9,51.3
NOMINAL FLUX(lm)	941.262	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.9,46.9
LAMPS INSIDE	1	η up (%)	1.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down (%)	98.2	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [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	461.2	460.5	457.9	453.4	453.3	450.0	450.9	453.6	0- 10	43.93	43.93	4.67,4.67
20	433.7	433.9	429.6	422.2	418.8	414.6	417.0	422.9	10- 20	124.5	168.4	17.9,17.9
30	387.0	389.0	382.5	369.8	360.1	355.4	361.7	371.6	20- 30	184.7	353.1	37.5,37.5
40	300.8	305.2	295.8	278.6	263.4	259.5	267.1	281.4	30- 40	205.4	558.4	59.3,59.3
50	196.9	201.4	192.2	174.3	158.0	154.0	162.6	177.1	40- 50	176.5	734.9	78.1,78.1
60	96.45	100.7	92.81	78.51	66.10	63.12	69.33	80.61	50- 60	113.2	848.1	90.1,90.1
70	35.07	35.81	33.68	30.22	26.72	25.31	26.82	30.50	60- 70	49.25	897.4	95.3,95.3
80	14.88	14.59	14.10	11.67	9.516	8.039	9.299	11.67	70- 80	21.73	919.1	97.6,97.6
90	1.390	1.143	1.098	0.3667	0.3753	0.3846	0.3569	0.3096	80- 90	5.515	924.6	98.2,98.2
100	0.5998	0.5901	0.6095	0.7213	0.7975	0.8264	0.7880	0.6943	90-100	0.5562	925.2	98.3,98.3
110	1.238	1.200	1.256	1.369	1.492	1.520	1.445	1.314	100-110	1.064	926.2	98.4,98.4
120	2.109	2.072	2.129	2.259	2.383	2.411	2.337	2.139	110-120	1.758	928.0	98.6,98.6
130	3.141	3.095	3.151	3.310	3.387	3.406	3.321	3.114	120-130	2.438	930.4	98.8,98.8
140	4.163	4.079	4.155	4.295	4.409	4.418	4.314	4.119	130-140	2.885	933.3	99.2,99.2
150	5.092	4.989	5.073	5.204	5.356	5.318	5.206	5.028	140-150	2.940	936.2	99.5,99.5
160	5.991	5.879	5.918	6.002	6.172	6.144	6.050	5.910	150-160	2.574	938.8	99.7,99.7
170	6.668	6.593	6.639	6.658	6.838	6.809	6.743	6.631	160-170	1.795	940.6	99.9,99.9
180	6.959	6.912	6.912	6.875	7.034	6.959	6.950	6.922	170-180	0.6522	941.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 652.94 lm

%lum = 69.4%

%lamp = 69.4%

Conical surface Flux(120deg): 848.1 lm

%lum = 90.1%

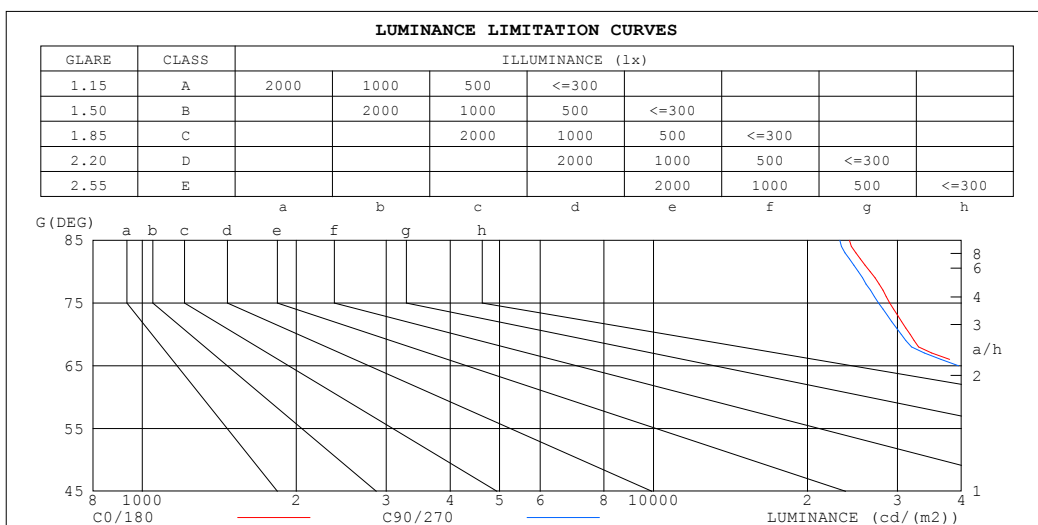
%lamp = 90.1%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	24182	23148
80	26554	25162
75	28991	27553
70	31771	30516
65	41164	39538
60	59773	57519
55	78215	75868
50	94916	92678
45	109404	107245

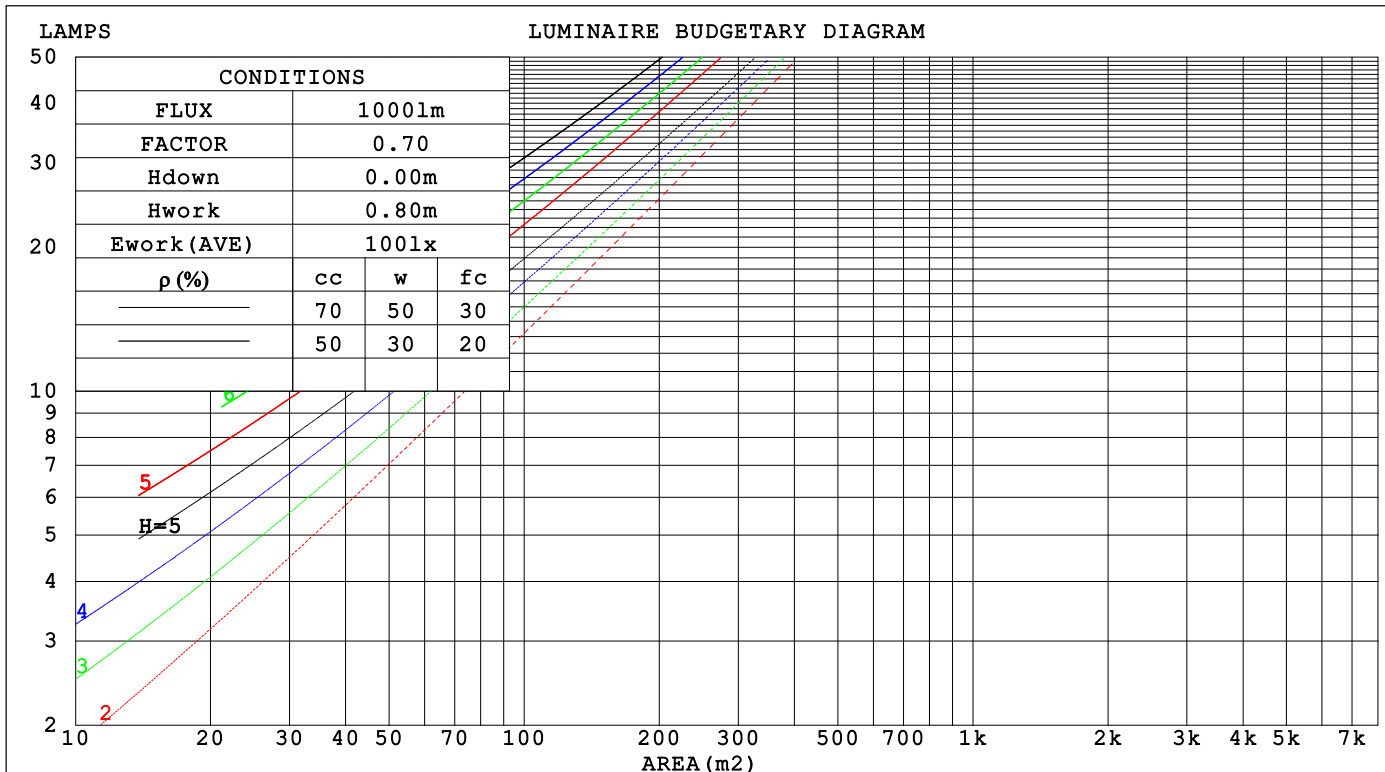
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm					
NAME: R731 W4K		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:		Shielding Angle:	

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{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	1.00	1.00	1.00	.98
1.0	1.07	1.03	1.00	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.96	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.83	.80	.78	.76
3.0	.86	.79	.73	.84	.78	.73	.81	.76	.71	.78	.74	.70	.76	.72	.69	.67
4.0	.77	.70	.64	.76	.69	.64	.73	.67	.63	.71	.66	.62	.69	.64	.61	.59
5.0	.70	.62	.56	.69	.62	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.52	.48	.46
7.0	.58	.51	.45	.58	.50	.45	.56	.49	.44	.54	.48	.44	.53	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.36	.45	.40	.36	.34
10.0	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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	.247	.140	.044	.239	.136	.043	.225	.129	.041	.212	.122	.039	.201	.116	.037		
2.0	.238	.131	.040	.232	.128	.039	.220	.122	.038	.208	.117	.037	.198	.112	.035		
3.0	.226	.120	.036	.220	.118	.035	.209	.113	.034	.199	.109	.034	.190	.105	.033		
4.0	.213	.111	.032	.208	.109	.032	.198	.105	.031	.189	.102	.031	.181	.098	.030		
5.0	.200	.102	.030	.196	.100	.029	.187	.097	.029	.179	.095	.028	.172	.092	.028		
6.0	.188	.094	.027	.184	.093	.027	.177	.091	.026	.170	.088	.026	.163	.086	.026		
7.0	.178	.088	.025	.174	.087	.025	.167	.085	.024	.161	.082	.024	.155	.081	.024		
8.0	.168	.082	.023	.164	.081	.023	.158	.079	.023	.153	.077	.022	.147	.076	.022		
9.0	.159	.077	.021	.156	.076	.021	.150	.074	.021	.145	.073	.021	.140	.071	.021		
10.0	.150	.072	.020	.148	.071	.020	.143	.070	.020	.138	.068	.019	.133	.067	.019		

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022		
1.0	.190	.170	.153	.162	.146	.132	.111	.101	.091	.064	.058	.053	.020	.019	.017		
2.0	.179	.146	.118	.153	.126	.102	.105	.087	.071	.061	.051	.042	.019	.016	.014		
3.0	.170	.128	.094	.146	.110	.082	.100	.077	.057	.058	.045	.034	.019	.015	.011		
4.0	.162	.114	.078	.139	.099	.067	.095	.069	.047	.055	.040	.028	.018	.013	.009		
5.0	.154	.103	.066	.133	.089	.057	.091	.062	.040	.053	.037	.024	.017	.012	.008		
6.0	.148	.095	.057	.127	.082	.049	.088	.057	.035	.051	.034	.021	.016	.011	.007		
7.0	.141	.088	.050	.122	.076	.044	.084	.053	.031	.049	.031	.018	.016	.010	.006		
8.0	.135	.082	.045	.117	.071	.039	.081	.050	.028	.047	.029	.017	.015	.010	.005		
9.0	.130	.077	.041	.112	.067	.036	.078	.047	.025	.045	.028	.015	.015	.009	.005		
10.0	.125	.073	.038	.108	.063	.033	.075	.044	.023	.044	.026	.014	.014	.009	.005		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm										
NAME: R731 W4K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:			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	27.7	29.0	27.9	29.2	29.4	27.6	28.9	27.8	29.1	29.3
3H	27.9	29.1	28.3	29.4	29.6	27.8	29.0	28.1	29.3	29.5
4H	28.1	29.2	28.4	29.5	29.7	27.9	29.1	28.3	29.3	29.6
6H	28.1	29.2	28.5	29.5	29.8	28.0	29.1	28.4	29.3	29.7
8H	28.2	29.2	28.5	29.5	29.8	28.0	29.0	28.4	29.3	29.7
12H	28.2	29.1	28.5	29.4	29.8	28.0	29.0	28.4	29.3	29.6
4H 2H	27.8	28.9	28.1	29.2	29.5	27.7	28.9	28.1	29.1	29.4
3H	28.2	29.2	28.6	29.5	29.8	28.1	29.1	28.5	29.4	29.7
4H	28.4	29.3	28.8	29.6	30.0	28.3	29.2	28.7	29.5	29.9
6H	28.6	29.4	29.0	29.7	30.1	28.5	29.2	28.9	29.6	30.0
8H	28.6	29.4	29.1	29.7	30.2	28.5	29.2	28.9	29.6	30.0
12H	28.7	29.3	29.1	29.7	30.2	28.5	29.2	29.0	29.6	30.0
8H 4H	28.4	29.1	28.9	29.5	30.0	28.3	29.0	28.8	29.4	29.8
6H	28.7	29.3	29.1	29.7	30.2	28.6	29.2	29.0	29.6	30.0
8H	28.8	29.3	29.3	29.8	30.2	28.7	29.2	29.2	29.6	30.1
12H	28.9	29.3	29.4	29.8	30.3	28.8	29.2	29.3	29.7	30.2
12H 4H	28.4	29.1	28.9	29.5	29.9	28.3	29.0	28.7	29.4	29.8
6H	28.7	29.2	29.2	29.7	30.1	28.6	29.1	29.1	29.5	30.0
8H	28.8	29.3	29.3	29.7	30.2	28.7	29.1	29.2	29.6	30.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.8				
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
2.0H	+ 1.2 / - 1.5					+ 1.2 / - 1.5				

CIE Pub.117, 941.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.2)
Area: 0.0032271 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

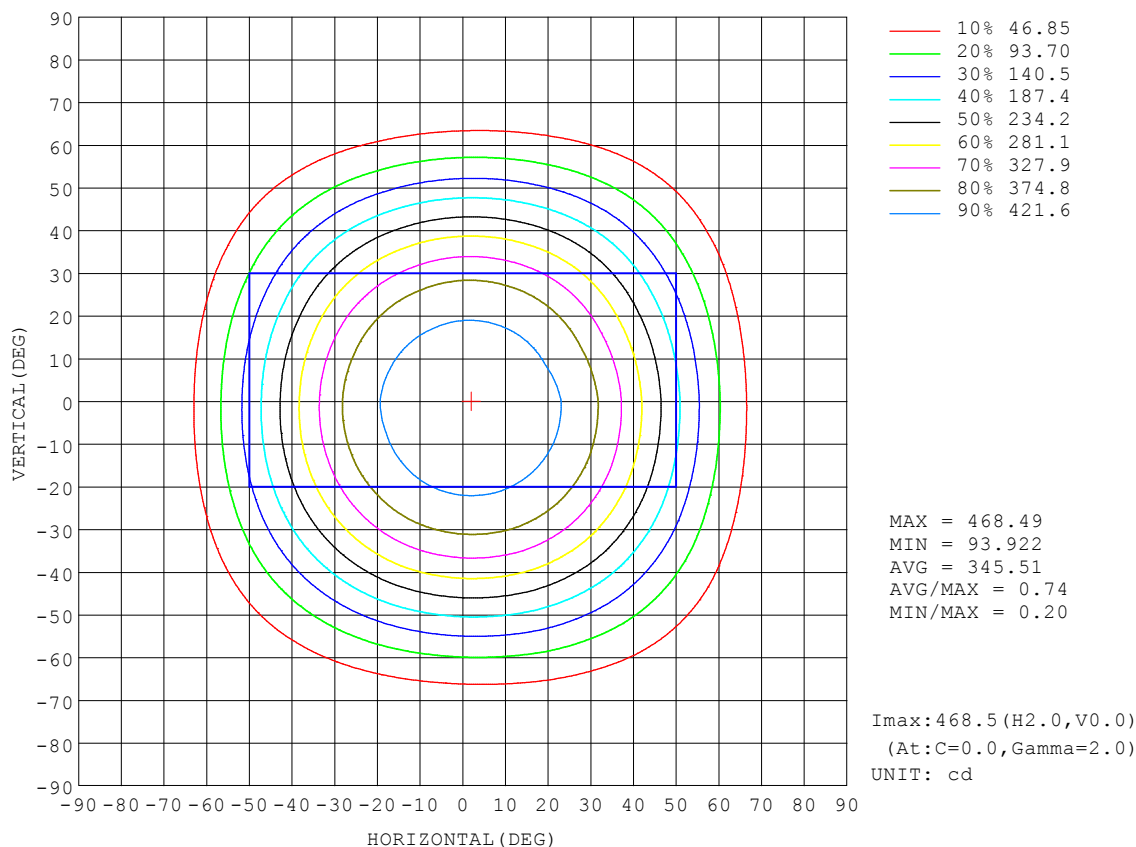
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	50	64	55	49	44
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	76	86	80	75	68
1.50	95	87	81	93	86	81	90	84	79	73
2.00	100	94	89	98	92	88	95	90	86	79
2.50	103	97	92	101	96	91	97	93	89	82
3.00	106	100	96	104	99	95	100	96	93	84
4.00	109	104	101	106	103	99	102	99	96	88
5.00	111	107	104	108	105	102	104	101	99	89
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: 25.3°C
Operators: DAMIN
Test Date: 2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity: 65.0%
Test Distance: 12.020m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

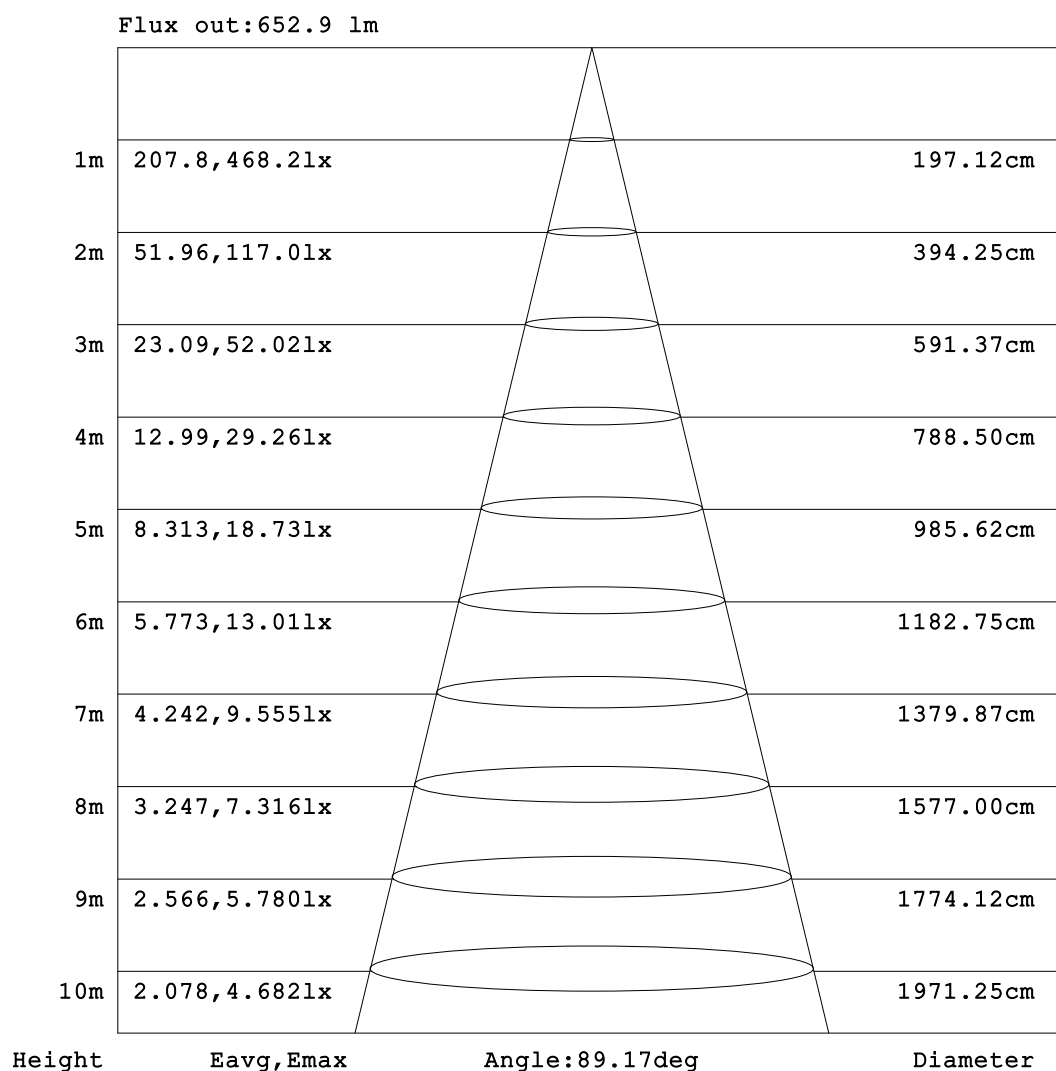


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262lx 1m		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



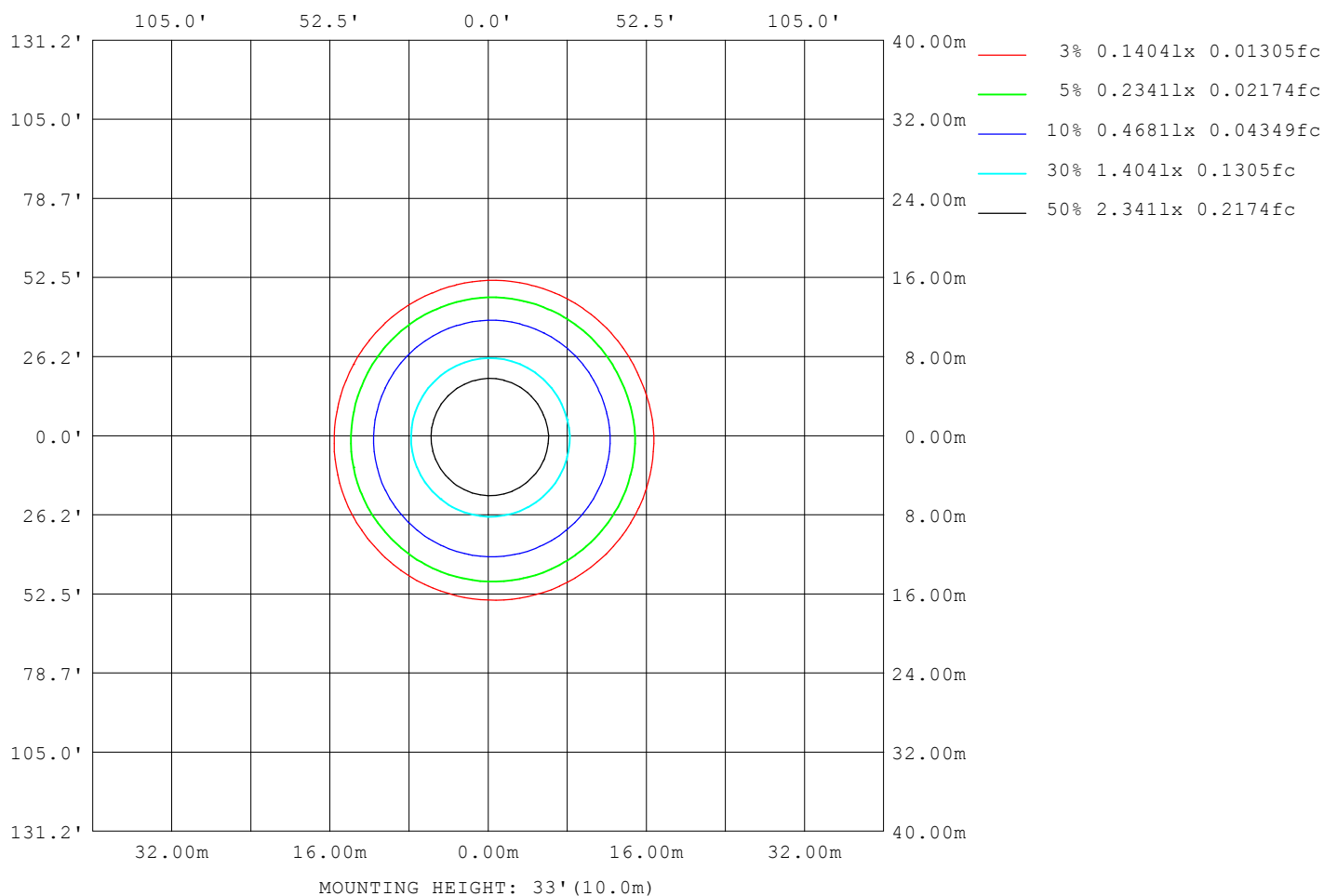
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-10-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
 Humidity: 65.0%
 Test Distance: 12.020m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

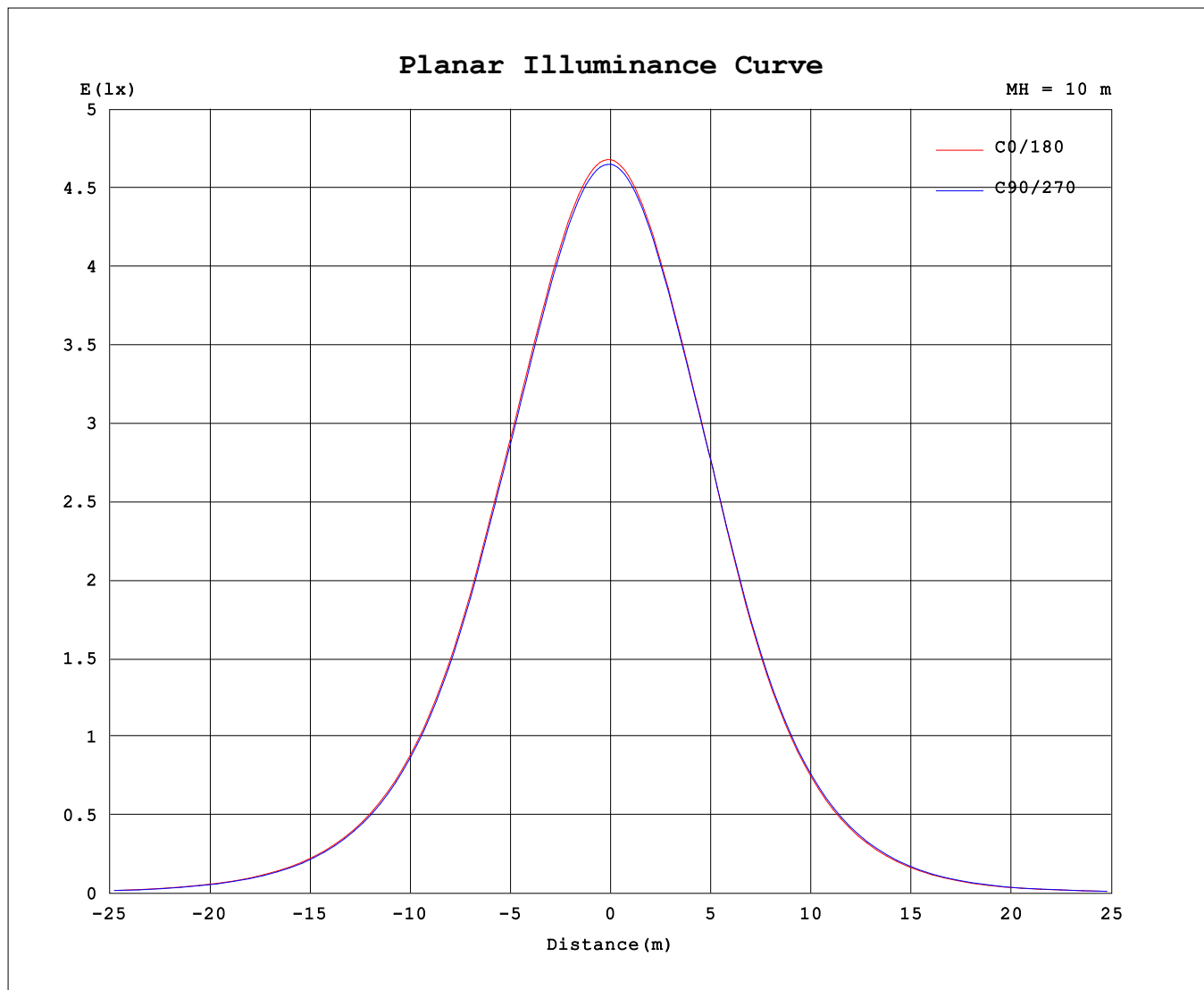
AvgL	cd/m2
L_0~180 (65) av	34545
L_0~180 (75) av	24863
L_0~180 (85) av	16990
L_90~270 (65) av	33986
L_90~270 (75) av	24229
L_90~270 (85) av	17023
L_45 (65) av	34180
L_45 (75) av	24315
L_45 (85) av	15090

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-10-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-10-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity: 65.0%
Test Distance: 12.020m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.31V I:0.0460A P:9.8500W PF:0.9301 Freq:50.00Hz Lamp Flux:941.262x1 lm		
NAME: R731 W4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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	468	467	466	465	465	465	464	464	468	467	466	465	465	465	464	464			
5	467	467	466	465	464	463	461	460	463	461	461	460	461	461	462	462			
10	461	461	460	459	458	456	453	452	453	451	450	450	451	452	454	455			
15	450	450	450	448	446	443	440	438	438	435	434	434	436	438	441	443			
20	434	435	434	432	430	426	422	419	419	416	415	415	417	420	423	426			
25	413	414	414	412	409	405	400	396	395	392	391	391	394	397	401	405			
30	387	390	389	387	382	377	370	364	360	356	355	357	362	366	372	377			
35	348	352	352	349	343	336	328	320	314	310	310	312	317	323	330	336			
40	301	305	305	302	296	289	279	271	263	259	259	261	267	273	281	288			
45	250	254	254	251	245	237	227	219	211	206	207	209	215	221	230	237			
50	197	202	201	199	192	184	174	166	158	154	154	157	163	169	177	184			
55	145	149	149	147	140	133	124	116	109	104	105	107	113	118	126	133			
60	96.4	100	101	98.8	92.8	86.2	78.5	72.6	66.1	62.9	63.1	64.8	69.3	74.3	80.6	86.6			
65	56.1	59.5	60.2	58.5	53.9	49.3	44.4	41.1	38.1	36.7	36.4	36.8	38.8	41.6	45.5	49.0			
70	35.1	35.9	35.8	35.1	33.7	32.1	30.2	28.6	26.7	25.6	25.3	25.7	26.8	28.4	30.5	32.4			
75	24.2	24.5	24.4	24.1	23.0	21.7	20.2	18.9	17.3	16.3	16.2	16.3	17.5	18.7	20.4	21.9			
80	14.9	14.7	14.6	14.8	14.1	13.2	11.7	10.6	9.52	8.50	8.04	8.34	9.30	10.6	11.7	12.8			
85	6.80	6.74	6.28	6.61	6.51	5.93	4.45	3.58	2.76	2.09	1.91	2.26	3.07	3.86	4.34	5.23			
90	1.39	1.19	1.14	1.37	1.10	0.51	0.37	0.39	0.38	0.33	0.38	0.34	0.36	0.32	0.31	0.46			
95	0.39	0.46	0.37	0.46	0.40	0.52	0.46	0.57	0.55	0.47	0.58	0.47	0.54	0.44	0.47	0.34			
100	0.60	0.68	0.59	0.69	0.61	0.74	0.72	0.84	0.80	0.73	0.83	0.75	0.79	0.63	0.69	0.55			
105	0.89	0.97	0.87	0.98	0.91	1.05	1.02	1.15	1.13	1.04	1.15	1.03	1.09	0.94	0.97	0.82			
110	1.24	1.30	1.20	1.31	1.26	1.42	1.37	1.53	1.49	1.42	1.52	1.39	1.44	1.31	1.31	1.18			
115	1.65	1.71	1.62	1.73	1.67	1.82	1.80	1.97	1.91	1.85	1.94	1.82	1.85	1.69	1.71	1.55			
120	2.11	2.16	2.07	2.18	2.13	2.29	2.26	2.42	2.38	2.32	2.41	2.29	2.34	2.14	2.14	1.98			
125	2.62	2.66	2.56	2.67	2.65	2.80	2.79	2.95	2.89	2.84	2.92	2.78	2.81	2.62	2.63	2.45			
130	3.14	3.18	3.09	3.19	3.15	3.32	3.31	3.47	3.39	3.30	3.41	3.28	3.32	3.14	3.11	2.96			
135	3.66	3.69	3.58	3.70	3.66	3.84	3.81	3.97	3.91	3.83	3.91	3.78	3.82	3.62	3.62	3.45			
140	4.16	4.18	4.08	4.17	4.15	4.30	4.30	4.45	4.41	4.33	4.42	4.29	4.31	4.12	4.12	3.97			
145	4.63	4.66	4.54	4.65	4.62	4.77	4.76	4.92	4.90	4.79	4.88	4.75	4.76	4.58	4.59	4.43			
150	5.09	5.14	4.99	5.11	5.07	5.22	5.20	5.36	5.36	5.25	5.32	5.20	5.21	5.03	5.03	4.89			
155	5.54	5.60	5.45	5.56	5.49	5.67	5.65	5.80	5.77	5.66	5.75	5.61	5.64	5.48	5.48	5.34			
160	5.99	6.01	5.88	5.98	5.92	6.08	6.00	6.18	6.17	6.08	6.14	6.01	6.05	5.88	5.91	5.75			
165	6.35	6.41	6.28	6.36	6.31	6.43	6.37	6.52	6.53	6.45	6.51	6.39	6.45	6.26	6.28	6.15			
170	6.67	6.74	6.59	6.69	6.64	6.73	6.66	6.79	6.84	6.74	6.81	6.69	6.74	6.57	6.63	6.50			
175	6.91	6.99	6.87	6.92	6.89	6.91	6.87	6.90	7.03	6.92	6.96	6.90	6.95	6.85	6.88	6.76			
180	6.96	6.98	6.91	6.92	6.91	6.91	6.87	6.90	7.03	6.96	6.96	6.93	6.95	6.92	6.92	6.85			

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C Interval: 22.5DEG
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