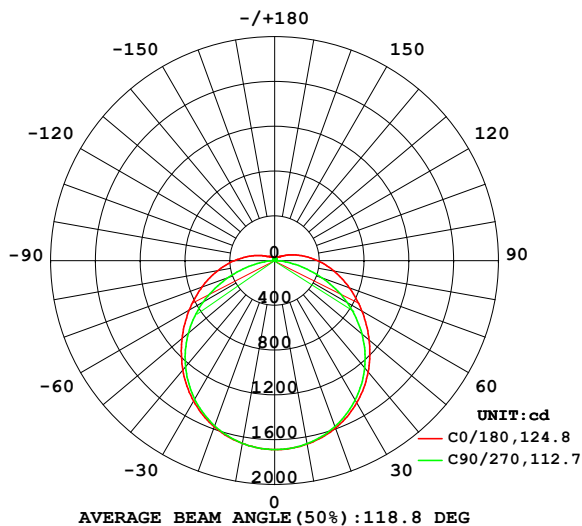


LUMINAIRE PHOTOMETRIC TEST REPORT

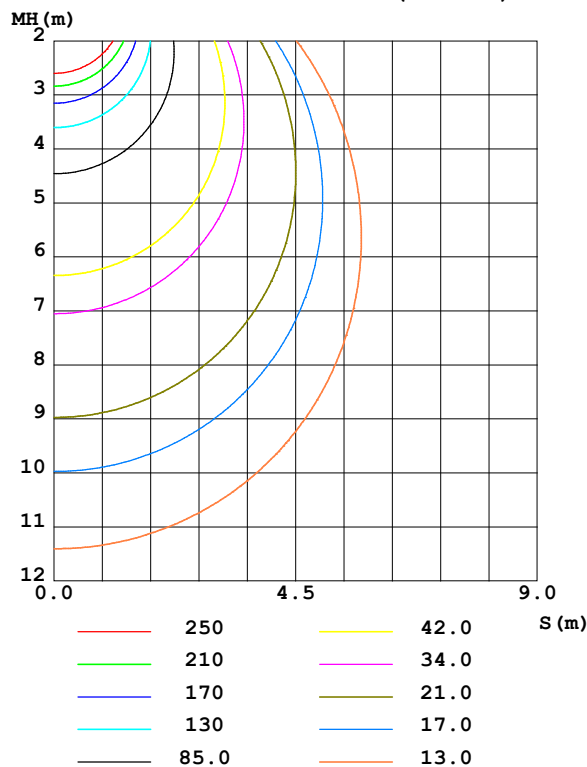
Test:U:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.90 lm/W			
MODEL		I _{max} (cd)	1688	S/MH(C0/180)	1.28
NOMINAL POWER(W)	46	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5873.8	η UP,DN(C0-180)	3.9,46.4
NOMINAL FLUX(lm)	5873.76	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.8,45.8
LAMPS INSIDE	1	η up (%)	7.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down (%)	92.3	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: 25.3°C
Operators: DAMIN
Test Date: 2024-04-12

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	1664	1663	1661	1662	1659	1659	1657	1659	0- 10	159.8	159.8	2.72,2.72
20	1592	1583	1576	1581	1579	1575	1569	1577	10- 20	459.2	619.1	10.5,10.5
30	1468	1453	1439	1449	1449	1438	1429	1445	20- 30	700.3	1319	22.5,22.5
40	1300	1276	1251	1271	1276	1256	1239	1268	30- 40	852.4	2172	37,37
50	1103	1062	1019	1056	1080	1036	1005	1055	40- 50	897.8	3070	52.3,52.3
60	900.3	824.2	748.0	826.5	881.3	799.0	735.1	826.3	50- 60	837.7	3907	66.5,66.5
70	710.7	592.2	451.8	605.9	691.6	568.8	439.2	607.5	60- 70	693.3	4600	78.3,78.3
80	537.7	392.2	167.3	411.7	514.7	370.1	160.2	415.1	70- 80	502.1	5103	86.9,86.9
90	384.3	234.0	13.34	252.4	359.9	214.5	11.60	261.3	80- 90	316.3	5419	92.3,92.3
100	254.5	125.5	8.301	138.6	231.5	110.2	8.660	149.3	90-100	184.7	5603	95.4,95.4
110	155.1	64.84	11.20	73.49	136.7	57.84	11.33	81.05	100-110	104.1	5708	97.2,97.2
120	87.25	42.09	13.99	47.81	78.48	41.56	14.12	48.90	110-120	58.32	5766	98.2,98.2
130	59.02	35.50	16.82	40.49	57.64	36.53	16.92	38.52	120-130	37.26	5803	98.8,98.8
140	45.62	30.45	19.63	35.95	46.97	33.52	19.80	33.21	130-140	27.30	5830	99.3,99.3
150	37.18	27.59	22.15	32.31	39.31	30.53	22.29	28.53	140-150	19.80	5850	99.6,99.6
160	31.15	26.31	24.31	29.10	32.77	27.68	24.28	26.51	150-160	13.38	5864	99.8,99.8
170	27.00	25.76	25.80	26.85	27.83	26.65	25.83	25.80	160-170	7.642	5871	100,100
180	26.97	26.41	26.43	26.37	27.01	26.43	26.43	26.35	170-180	2.513	5874	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2621.9 lm

%lum = 44.6%

%lamp = 44.6%

Conical surface Flux(120deg): 3907.2 lm

%lum = 66.5%

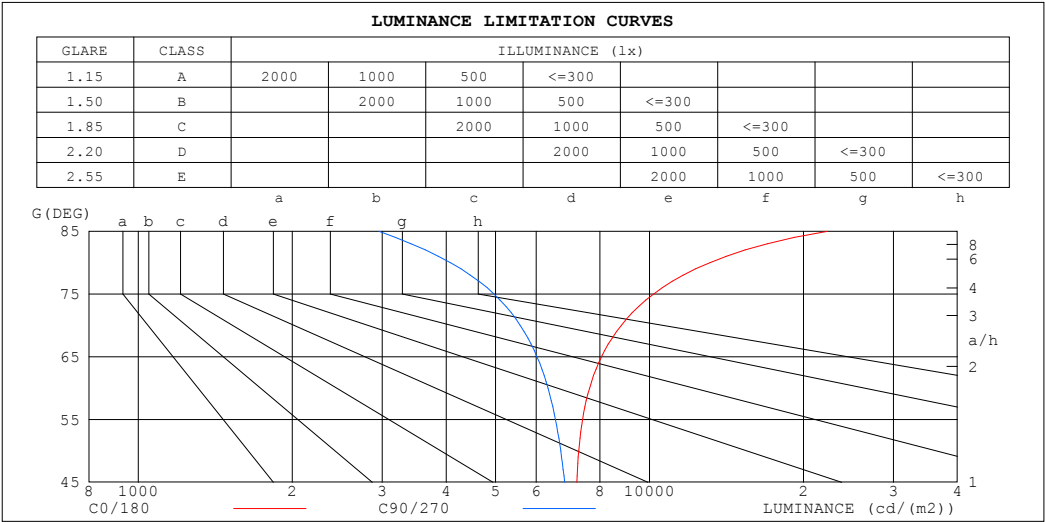
%lamp = 66.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22279	2957
80	13123	4077
75	10187	4963
70	8807	5587
65	8054	6020
60	7631	6328
55	7393	6544
50	7269	6703
45	7209	6821

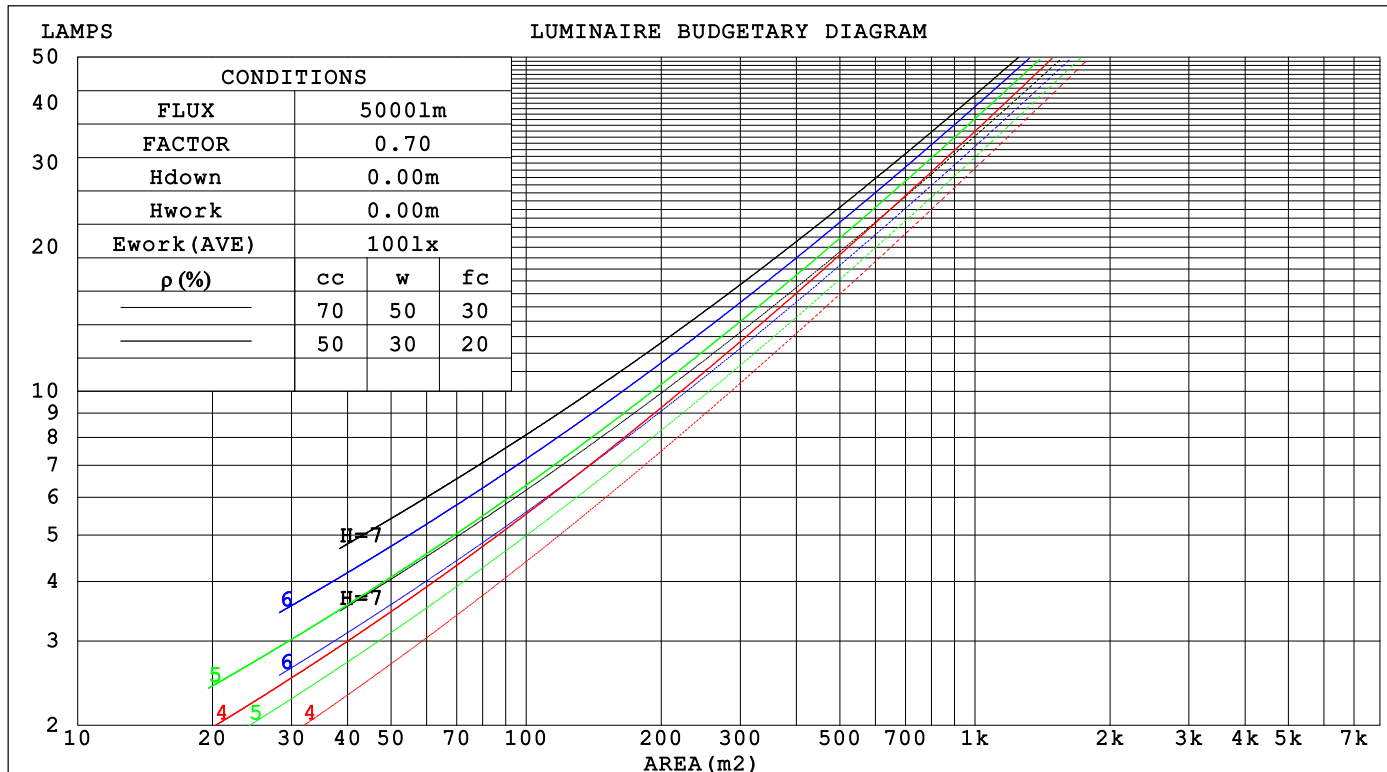
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	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 Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.92
1.0	.00	.95	.90	.97	.92	.88	.91	.87	.84	.86	.83	.80	.81	.78	.76	.73
2.0	.86	.78	.72	.83	.77	.71	.78	.73	.68	.74	.69	.65	.70	.66	.63	.60
3.0	.75	.66	.59	.73	.65	.58	.69	.62	.56	.65	.59	.54	.61	.56	.52	.50
4.0	.66	.57	.50	.64	.56	.49	.61	.53	.48	.57	.51	.46	.54	.49	.45	.42
5.0	.59	.50	.43	.57	.49	.42	.54	.47	.41	.51	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.37	.52	.43	.37	.49	.41	.36	.46	.40	.35	.44	.38	.34	.32
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.31	.42	.36	.31	.40	.34	.30	.28
8.0	.44	.35	.29	.43	.34	.29	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.28	.23	.33	.27	.22	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	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	.356	.202	.064	.346	.197	.063	.328	.188	.060	.312	.180	.058	.297	.172	.055		
2.0	.317	.174	.053	.308	.170	.052	.292	.163	.051	.278	.156	.049	.264	.149	.047		
3.0	.286	.152	.046	.278	.149	.045	.264	.143	.043	.251	.137	.042	.238	.132	.041		
4.0	.260	.135	.040	.253	.132	.039	.240	.127	.038	.228	.123	.037	.217	.118	.036		
5.0	.238	.121	.035	.232	.119	.035	.220	.115	.034	.209	.110	.033	.199	.106	.032		
6.0	.219	.110	.031	.213	.108	.031	.203	.104	.030	.193	.100	.030	.184	.097	.029		
7.0	.203	.100	.028	.198	.099	.028	.188	.095	.027	.179	.092	.027	.171	.089	.026		
8.0	.189	.092	.026	.184	.091	.026	.175	.088	.025	.167	.085	.024	.160	.082	.024		
9.0	.176	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.023	.150	.076	.022		
10.0	.165	.079	.022	.161	.078	.022	.154	.076	.021	.147	.073	.021	.141	.071	.020		

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	.249	.249	.249	.213	.213	.213	.146	.146	.146	.084	.084	.084	.027	.027	.027		
1.0	.243	.215	.190	.208	.185	.164	.142	.127	.113	.082	.074	.066	.026	.024	.021		
2.0	.236	.192	.155	.202	.165	.134	.138	.114	.093	.080	.066	.055	.026	.021	.018		
3.0	.228	.175	.132	.195	.151	.115	.134	.105	.080	.077	.061	.047	.025	.020	.016		
4.0	.220	.162	.117	.189	.140	.102	.130	.097	.072	.075	.057	.042	.024	.019	.014		
5.0	.212	.152	.107	.182	.131	.093	.126	.092	.066	.073	.054	.039	.023	.018	.013		
6.0	.205	.143	.099	.176	.124	.086	.122	.087	.061	.071	.051	.036	.023	.017	.012		
7.0	.198	.137	.094	.170	.118	.082	.118	.083	.058	.068	.049	.034	.022	.016	.011		
8.0	.191	.131	.089	.165	.114	.078	.114	.080	.055	.066	.047	.033	.021	.015	.011		
9.0	.185	.126	.086	.159	.109	.075	.110	.077	.053	.064	.045	.032	.021	.015	.011		
10.0	.179	.122	.084	.155	.106	.073	.107	.074	.052	.063	.044	.031	.020	.014	.010		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm										
NAME: LED445-W46 (46W 250mA 4000K)					TYPE:			WEIGHT:		
SPEC.:					DIM.: 0.236350			SERIAL No.: 1		
MFR.:					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	19.5	20.9	19.9	21.3	21.7	18.8	20.2	19.1	20.6	20.9
3H	21.7	23.0	22.1	23.4	23.8	20.2	21.6	20.6	21.9	22.3
4H	22.8	24.1	23.3	24.5	24.9	20.8	22.1	21.2	22.5	22.9
6H	24.1	25.3	24.6	25.7	26.2	21.1	22.4	21.6	22.8	23.2
8H	24.8	26.0	25.3	26.4	26.9	21.2	22.4	21.7	22.8	23.3
12H	25.6	26.8	26.1	27.2	27.7	21.3	22.4	21.7	22.8	23.3
4H 2H	20.1	21.4	20.5	21.8	22.2	19.5	20.8	19.9	21.2	21.6
3H	22.5	23.6	22.9	24.0	24.5	21.2	22.3	21.7	22.8	23.2
4H	23.8	24.9	24.3	25.3	25.8	21.9	22.9	22.4	23.4	23.9
6H	25.3	26.3	25.8	26.7	27.3	22.4	23.3	22.9	23.8	24.4
8H	26.1	27.0	26.7	27.5	28.1	22.6	23.4	23.1	23.9	24.5
12H	27.1	27.9	27.6	28.4	29.0	22.7	23.5	23.2	24.0	24.6
8H 4H	24.1	25.0	24.7	25.5	26.1	22.5	23.4	23.0	23.9	24.4
6H	25.9	26.6	26.5	27.2	27.8	23.3	24.0	23.8	24.6	25.2
8H	26.9	27.6	27.5	28.1	28.8	23.6	24.2	24.2	24.8	25.4
12H	28.1	28.7	28.7	29.3	29.9	23.8	24.4	24.4	25.0	25.6
12H 4H	24.2	25.0	24.7	25.5	26.1	22.7	23.5	23.2	24.0	24.6
6H	26.0	26.7	26.6	27.2	27.8	23.6	24.3	24.2	24.8	25.5
8H	27.1	27.7	27.7	28.3	28.9	24.1	24.6	24.6	25.2	25.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 5874 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.2)
Area: 0.23635 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

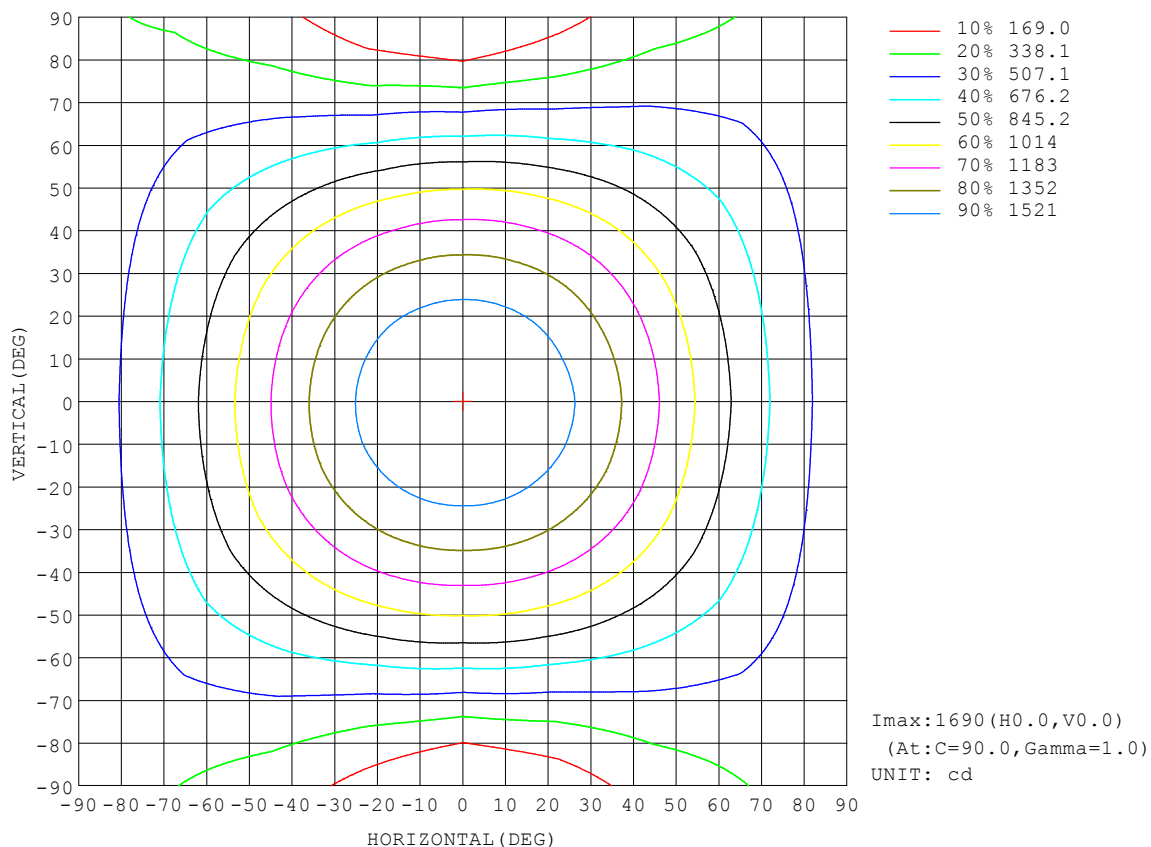
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	41	34	51	40	33	27
0.80	62	50	42	61	50	42	59	49	42	34
1.00	70	58	51	69	58	50	66	59	49	41
1.25	77	66	58	76	65	57	72	63	56	48
1.50	82	71	63	80	70	63	77	68	61	52
2.00	89	80	72	87	78	71	83	75	69	60
2.50	94	85	77	91	83	76	86	79	74	64
3.00	97	89	82	94	87	81	89	83	78	67
4.00	102	95	89	99	92	87	93	88	84	72
5.00	104	98	93	101	96	91	95	91	87	75
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: 2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

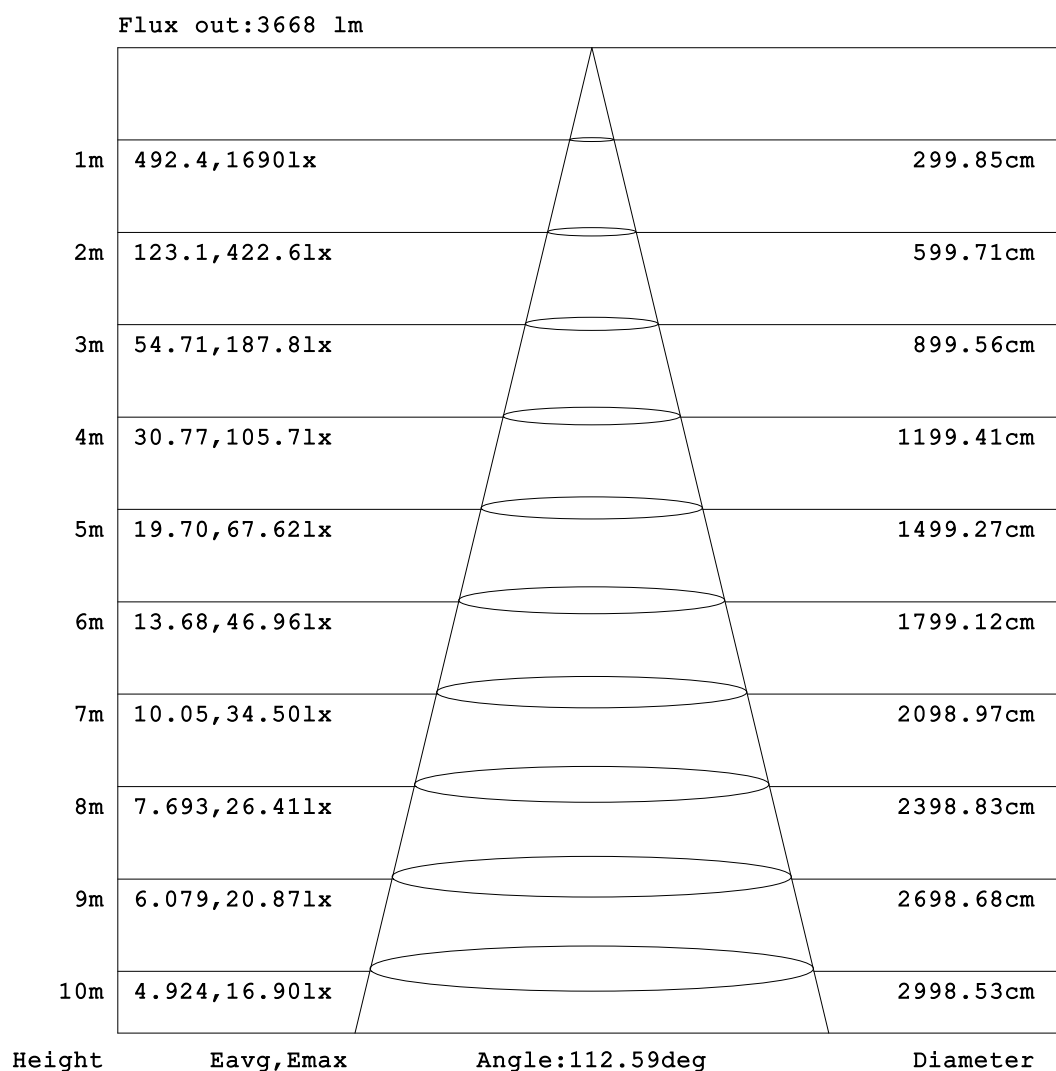


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



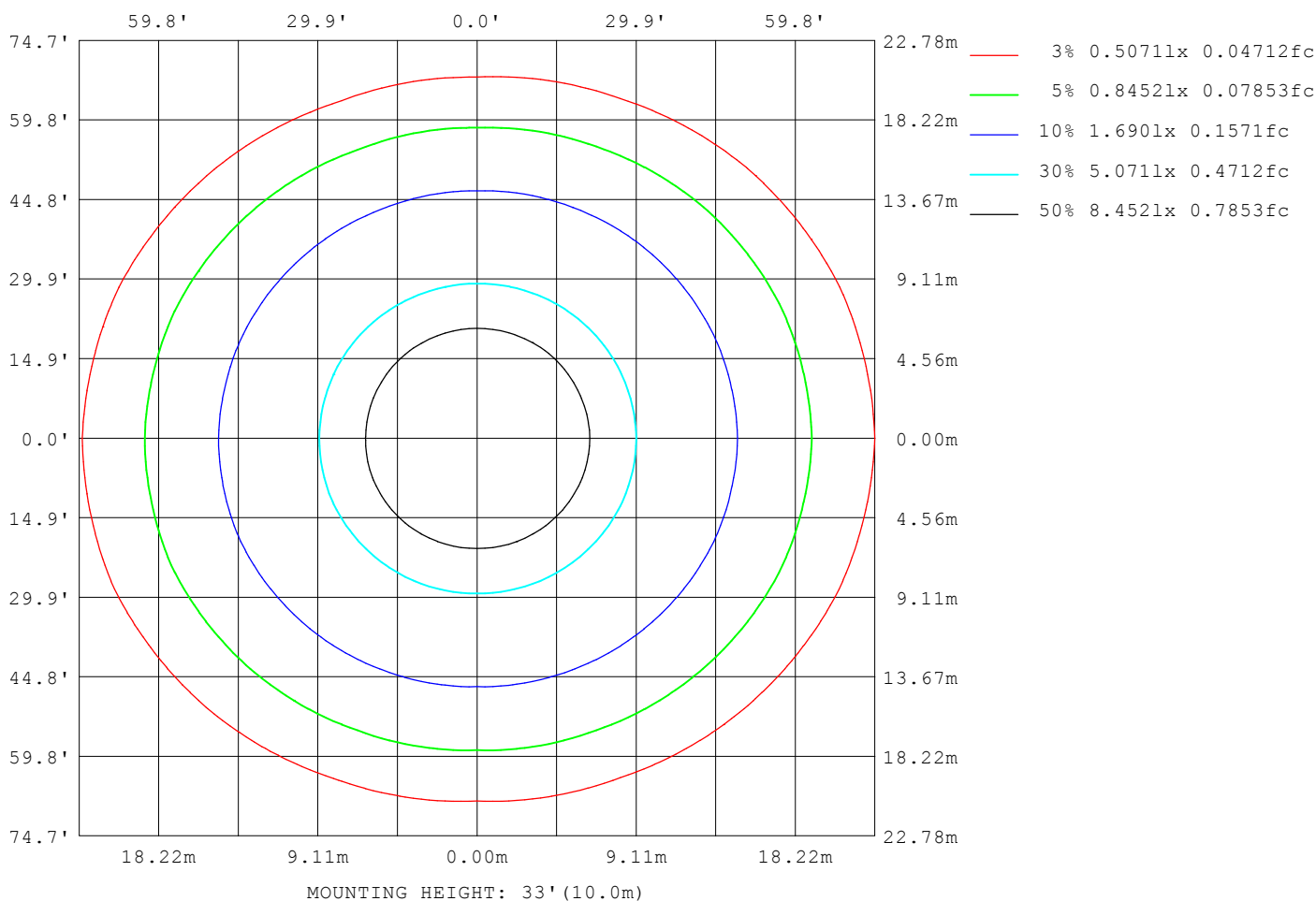
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

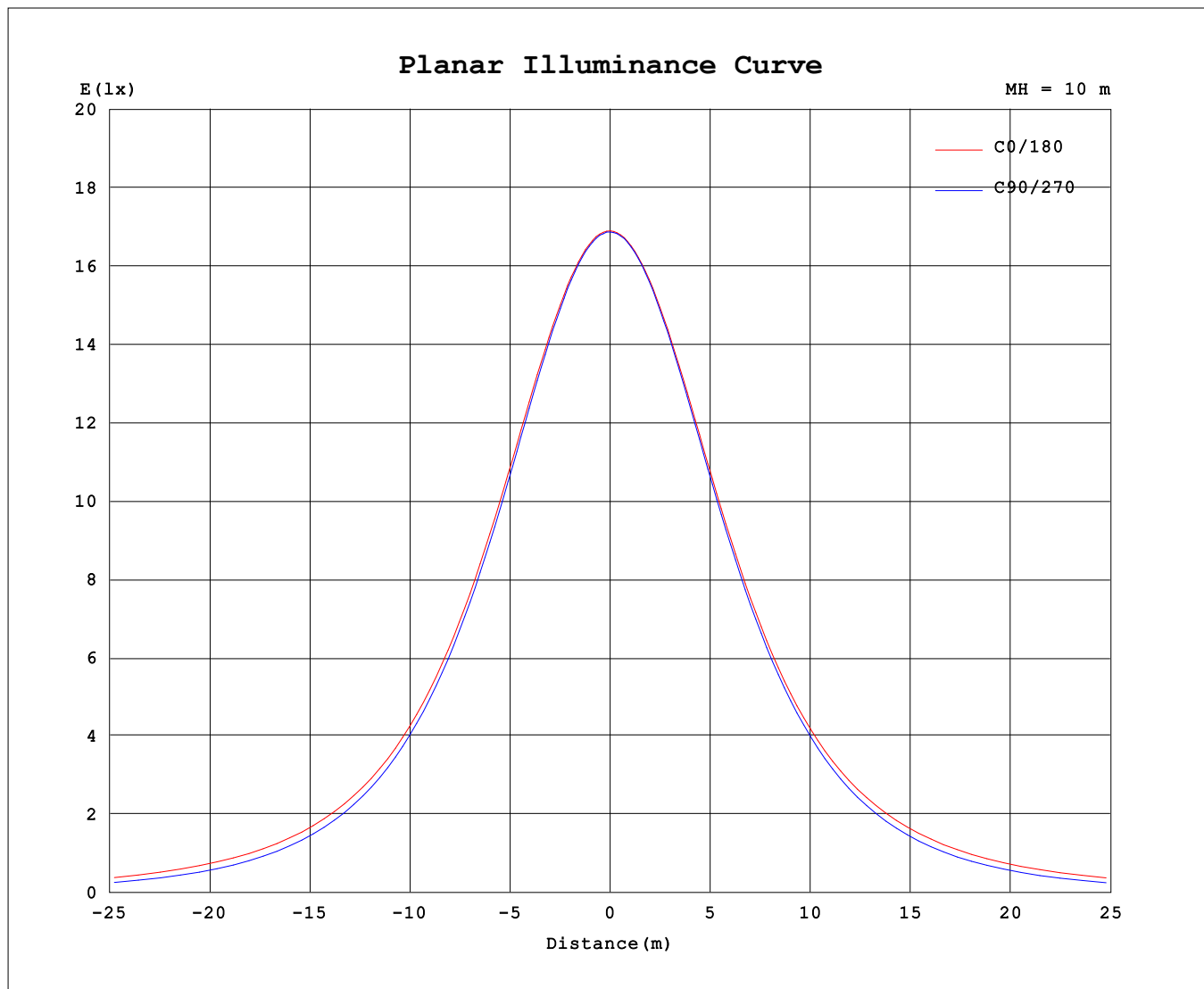
AvgL	cd/m2
L_0~180 (65) av	7947
L_0~180 (75) av	10006
L_0~180 (85) av	21659
L_90~270 (65) av	5962
L_90~270 (75) av	4880
L_90~270 (85) av	2909
L_45 (65) av	7045
L_45 (75) av	8019
L_45 (85) av	15218

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2024-04-12

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: 2024-04-12

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:230.33V I:0.2031A P:45.925W PF:0.9818 Freq:50.00Hz Lamp Flux:5873.76x1 lm		
NAME: LED445-W46 (46W 250mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.236350	SERIAL No.: 1
MFR.:	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	1688	1688	1688	1688	1688	1688	1688	1688	1688	1688	1688	1688	1688	1688	1688	1688			
5	1683	1683	1682	1682	1681	1682	1681	1682	1679	1681	1680	1680	1680	1680	1680	1682			
10	1664	1665	1663	1662	1661	1661	1662	1663	1659	1660	1659	1657	1657	1658	1659	1662			
15	1634	1634	1630	1628	1626	1627	1628	1630	1625	1625	1624	1621	1620	1622	1626	1629			
20	1592	1591	1583	1579	1576	1579	1581	1584	1579	1579	1575	1569	1569	1572	1577	1583			
25	1536	1534	1524	1519	1514	1518	1521	1526	1521	1518	1513	1506	1506	1509	1518	1525			
30	1468	1466	1453	1445	1439	1443	1449	1456	1449	1447	1438	1430	1429	1434	1445	1455			
35	1389	1386	1370	1358	1351	1356	1365	1374	1367	1364	1352	1341	1340	1348	1362	1375			
40	1300	1297	1276	1261	1251	1258	1271	1283	1276	1270	1256	1241	1239	1250	1268	1286			
45	1203	1196	1173	1152	1140	1150	1167	1184	1180	1169	1150	1130	1127	1141	1165	1188			
50	1103	1091	1062	1034	1019	1032	1056	1082	1080	1065	1036	1009	1005	1024	1055	1085			
55	1001	984	944	907	887	906	941	979	980	959	918	881	875	899	941	981			
60	900	878	824	773	748	774	826	877	881	854	799	746	735	768	826	878			
65	803	775	706	635	601	640	713	776	784	752	681	607	590	635	714	777			
70	711	677	592	495	452	507	606	680	692	655	569	470	439	506	607	683			
75	622	584	487	365	304	385	505	588	602	561	464	340	293	384	506	592			
80	538	495	392	249	167	277	412	499	515	474	370	228	160	277	415	506			
85	458	414	307	157	60.9	188	327	417	434	392	286	140	58.9	190	333	426			
90	384	341	234	90.2	13.3	120	252	342	360	318	215	78.5	11.6	124	261	353			
95	316	275	174	50.1	7.97	73.0	190	275	292	251	156	43.6	7.81	78.0	200	287			
100	255	216	125	30.4	8.30	46.2	139	215	232	194	110	28.3	8.66	49.7	149	228			
105	201	166	90.0	23.2	9.68	33.7	100	165	179	147	78.2	23.5	9.94	35.2	110	177			
110	155	126	64.8	21.4	11.2	29.0	73.5	124	137	110	57.8	22.5	11.3	29.2	81.1	135			
115	119	95.5	48.5	20.9	12.6	27.3	55.4	93.5	104	80.2	45.4	22.2	12.7	26.5	58.1	103			
120	87.2	70.0	42.1	20.7	14.0	26.3	47.8	71.5	78.5	62.5	41.6	22.3	14.1	25.1	48.9	75.2			
125	69.5	58.0	38.2	21.0	15.4	26.3	43.6	60.0	64.9	55.0	38.9	22.7	15.5	24.6	42.6	60.8			
130	59.0	49.9	35.5	21.2	16.8	26.3	40.5	53.1	57.6	50.1	36.5	23.1	16.9	24.0	38.5	52.3			
135	51.0	44.8	33.2	21.5	18.2	26.2	38.0	48.2	51.8	46.1	34.6	23.5	18.4	23.7	35.9	46.5			
140	45.6	40.8	30.5	21.9	19.6	25.8	36.0	44.1	47.0	42.5	33.5	23.7	19.8	23.5	33.2	42.0			
145	41.0	37.4	28.7	22.1	21.0	25.8	34.2	40.5	42.9	39.4	32.1	23.7	21.1	23.5	30.3	38.2			
150	37.2	34.6	27.6	22.8	22.1	25.1	32.3	37.6	39.3	36.7	30.5	24.3	22.3	23.7	28.5	34.9			
155	34.0	32.0	26.6	23.5	23.3	25.4	30.5	34.6	36.0	33.8	29.2	24.9	23.3	24.0	27.5	32.3			
160	31.1	29.1	26.3	24.1	24.3	25.6	29.1	32.0	32.8	31.3	27.7	25.3	24.3	24.5	26.5	30.0			
165	28.7	27.4	25.8	24.7	25.1	25.9	27.5	29.1	30.1	28.6	27.1	25.7	25.1	24.9	25.9	27.6			
170	27.0	26.4	25.8	25.3	25.8	26.1	26.9	27.5	27.8	27.4	26.7	26.1	25.8	25.3	25.8	26.3			
175	26.4	26.1	25.8	26.0	26.2	26.4	26.5	26.6	27.0	26.7	26.5	26.4	26.3	25.9	25.9	26.1			
180	27.0	26.5	26.4	26.4	26.4	26.4	26.4	26.4	27.0	26.5	26.4	26.4	26.4	26.3	26.3	26.4			

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C Interval: 22.5DEG
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Operators:DAMIN
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