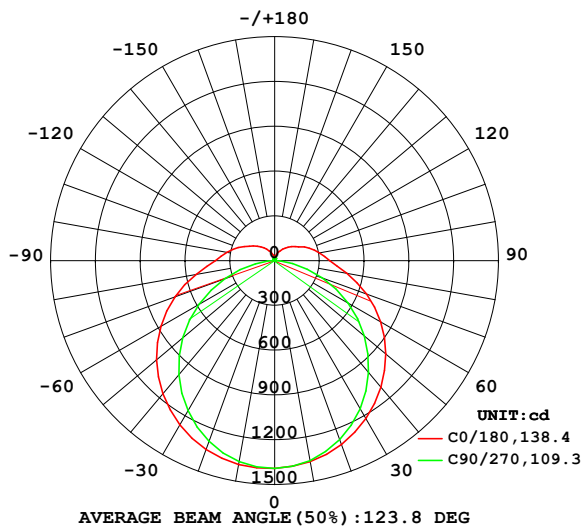


LUMINAIRE PHOTOMETRIC TEST REPORT

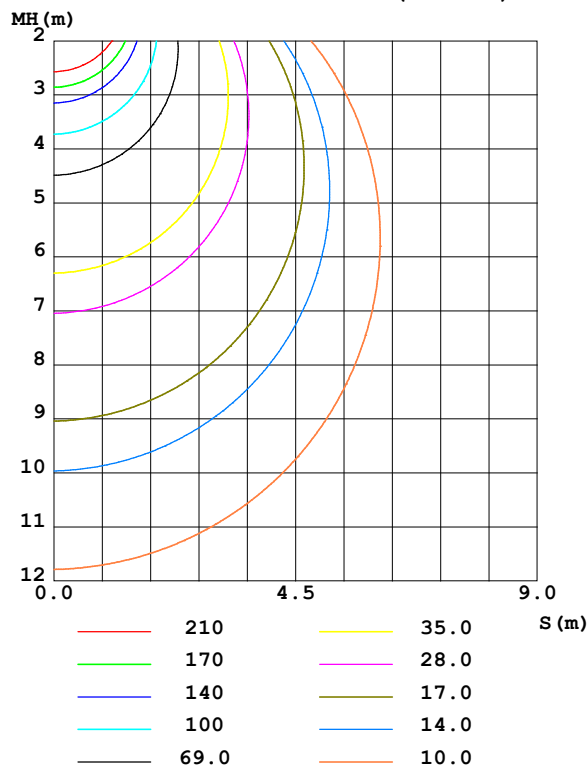
Test:U:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.68 lm/W			
MODEL		I _{max} (cd)	1393	S/MH(C0/180)	1.36
NOMINAL POWER(W)	36.8	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5434.0	η UP,DN(C0-180)	6.7,43.0
NOMINAL FLUX(lm)	5434.05	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	6.7,43.7
LAMPS INSIDE	1	η up (%)	13.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down (%)	86.6	CIBSE SHR MAX	1.50

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: 2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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	1367	1360	1360	1377	1386	1380	1367	1365	0- 10	131.8	131.8	2.43,2.43
20	1310	1288	1276	1319	1346	1324	1288	1298	10- 20	379.4	511.2	9.41,9.41
30	1222	1178	1146	1222	1270	1227	1161	1193	20- 30	580.6	1092	20.1,20.1
40	1107	1039	978.5	1092	1164	1095	996.8	1058	30- 40	712.7	1805	33.2,33.2
50	971.4	877.9	784.2	937.3	1033	937.3	803.0	901.0	40- 50	763.8	2568	47.3,47.3
60	820.4	702.4	568.5	764.5	879.9	760.9	584.7	727.9	50- 60	732.7	3301	60.7,60.7
70	656.5	520.6	340.8	581.2	711.2	572.7	354.2	544.4	60- 70	627.4	3929	72.3,72.3
80	491.1	346.7	122.6	401.5	534.5	388.3	132.4	370.9	70- 80	469.3	4398	80.9,80.9
90	370.4	230.6	5.668	267.4	397.9	253.1	5.694	251.1	80- 90	308.8	4707	86.6,86.6
100	306.5	181.2	7.442	208.7	324.8	194.8	6.702	198.4	90-100	220.9	4928	90.7,90.7
110	248.4	136.5	10.12	154.0	260.6	149.2	9.245	150.3	100-110	169.9	5097	93.8,93.8
120	187.7	108.0	12.76	121.3	196.1	110.8	11.76	117.6	110-120	122.9	5220	96.1,96.1
130	148.8	84.62	15.28	94.94	152.2	87.07	14.25	92.79	120-130	87.55	5308	97.7,97.7
140	111.1	59.09	17.58	72.84	112.0	67.31	16.67	67.50	130-140	59.10	5367	98.8,98.8
150	78.78	42.82	19.53	54.15	78.82	50.40	18.83	46.04	140-150	36.20	5403	99.4,99.4
160	52.83	33.60	21.15	38.48	51.23	34.85	20.66	34.03	150-160	19.71	5423	99.8,99.8
170	31.36	27.08	22.28	27.00	30.01	26.03	22.15	27.02	160-170	8.803	5432	100,100
180	22.70	22.61	22.68	22.72	22.71	22.59	22.69	22.66	170-180	2.353	5434	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2185.3 lm

%lum = 40.2%

%lamp = 40.2%

Conical surface Flux(120deg): 3301.1 lm

%lum = 60.7%

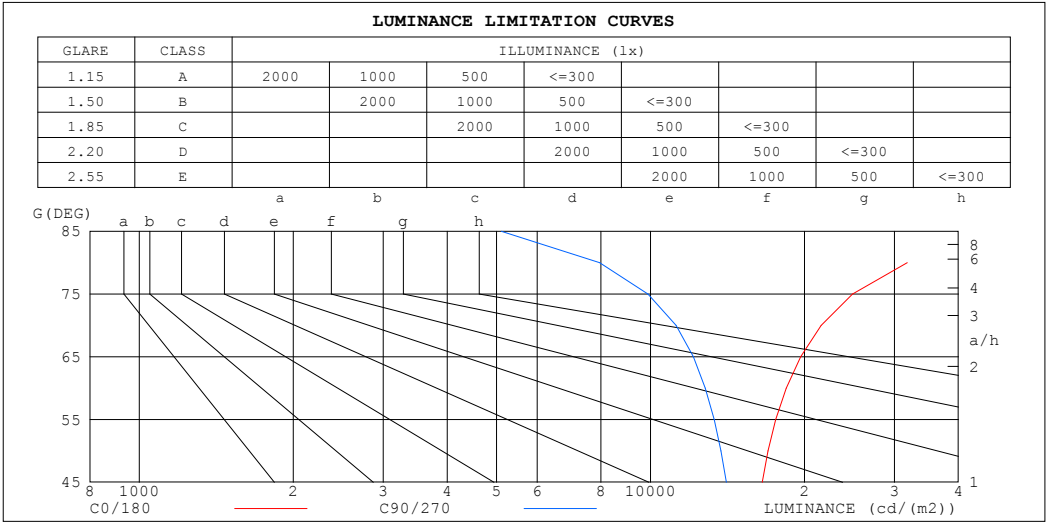
%lamp = 60.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-11-09

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	54091	5109
80	31779	7945
75	24839	9883
70	21567	11217
65	19649	12128
60	18437	12801
55	17583	13323
50	16980	13734
45	16548	14080

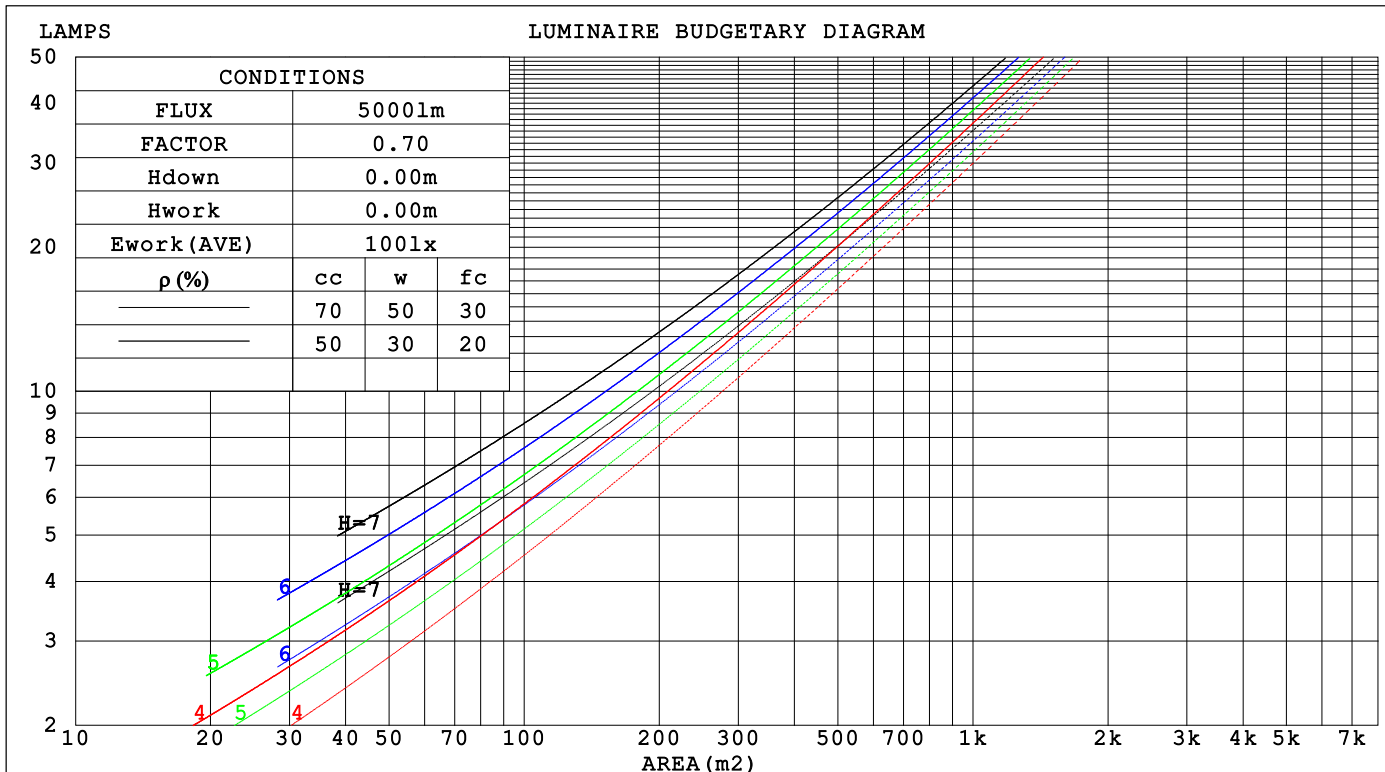
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	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	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.96	.96	.96	.90	.90	.90	.87														
1.0	.98	.93	.88	.94	.90	.86	.88	.84	.81	.81	.78	.76	.76	.73	.71	.68														
2.0	.84	.77	.70	.81	.74	.69	.75	.70	.65	.70	.65	.61	.65	.61	.58	.55														
3.0	.73	.65	.58	.71	.63	.56	.66	.59	.54	.61	.56	.51	.57	.52	.48	.46														
4.0	.65	.55	.48	.62	.54	.47	.58	.51	.45	.54	.48	.43	.51	.45	.41	.38														
5.0	.57	.48	.41	.56	.47	.40	.52	.44	.39	.48	.42	.37	.45	.40	.35	.33														
6.0	.52	.42	.36	.50	.41	.35	.47	.39	.34	.44	.37	.32	.41	.35	.31	.29														
7.0	.47	.38	.31	.45	.37	.31	.42	.35	.30	.40	.33	.28	.37	.32	.27	.25														
8.0	.42	.34	.28	.41	.33	.27	.39	.31	.26	.36	.30	.25	.34	.29	.24	.22														
9.0	.39	.30	.25	.38	.30	.24	.35	.28	.24	.33	.27	.23	.32	.26	.22	.20														
10.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.31	.25	.21	.29	.24	.20	.18														



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	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	.361	.205	.065	.350	.199	.063	.328	.188	.060	.309	.178	.057	.291	.169	.054		
2.0	.320	.175	.054	.310	.171	.053	.291	.162	.050	.273	.153	.048	.257	.145	.046		
3.0	.287	.153	.046	.278	.149	.045	.261	.142	.043	.245	.134	.041	.231	.128	.040		
4.0	.261	.135	.040	.252	.132	.039	.237	.126	.038	.223	.120	.036	.209	.114	.035		
5.0	.238	.121	.035	.231	.118	.034	.217	.113	.033	.204	.107	.032	.192	.102	.031		
6.0	.219	.110	.031	.212	.107	.031	.200	.102	.030	.188	.098	.029	.177	.093	.028		
7.0	.203	.100	.028	.196	.098	.028	.185	.093	.027	.174	.089	.026	.164	.085	.025		
8.0	.188	.092	.026	.183	.090	.025	.172	.086	.025	.162	.082	.024	.153	.078	.023		
9.0	.176	.085	.024	.171	.083	.023	.161	.080	.023	.152	.076	.022	.143	.073	.021		
10.0	.165	.079	.022	.160	.077	.022	.151	.074	.021	.143	.071	.020	.135	.068	.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	.292	.292	.292	.250	.250	.250	.171	.171	.171	.098	.098	.098	.031	.031	.031		
1.0	.287	.259	.233	.245	.222	.201	.168	.153	.139	.097	.088	.081	.031	.028	.026		
2.0	.279	.235	.198	.239	.203	.171	.164	.140	.119	.095	.082	.070	.030	.026	.023		
3.0	.272	.218	.176	.233	.188	.153	.160	.131	.107	.092	.076	.063	.030	.025	.021		
4.0	.264	.206	.161	.227	.178	.140	.156	.124	.099	.090	.073	.058	.029	.024	.019		
5.0	.257	.196	.151	.220	.169	.131	.152	.118	.093	.088	.069	.055	.028	.023	.018		
6.0	.249	.188	.144	.214	.163	.125	.148	.114	.088	.086	.067	.053	.028	.022	.017		
7.0	.242	.181	.138	.208	.157	.120	.144	.110	.085	.084	.065	.051	.027	.021	.017		
8.0	.236	.175	.134	.203	.152	.117	.140	.107	.083	.082	.063	.049	.026	.021	.016		
9.0	.229	.171	.131	.198	.148	.114	.137	.104	.081	.080	.061	.048	.026	.020	.016		
10.0	.224	.166	.128	.193	.145	.112	.134	.102	.080	.078	.060	.047	.025	.020	.016		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm										
NAME: B15-W3457KA (43W 4000K)					TYPE:			WEIGHT:		
SPEC.:					DIM.: 0.08886			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	22.2	23.6	22.6	24.0	24.5	20.7	22.1	21.1	22.5	23.0
3H	24.5	25.8	24.9	26.2	26.7	22.1	23.4	22.6	23.9	24.4
4H	25.7	26.9	26.2	27.4	27.9	22.6	23.8	23.1	24.3	24.9
6H	26.9	28.1	27.4	28.6	29.1	22.9	24.1	23.4	24.6	25.1
8H	27.6	28.7	28.1	29.2	29.8	22.9	24.1	23.5	24.6	25.1
12H	28.4	29.5	28.9	30.0	30.6	22.9	24.0	23.5	24.5	25.1
4H 2H	22.7	23.9	23.2	24.4	24.9	21.6	22.8	22.1	23.3	23.8
3H	25.2	26.3	25.8	26.8	27.4	23.2	24.3	23.8	24.8	25.4
4H	26.6	27.6	27.2	28.1	28.7	23.9	24.9	24.5	25.4	26.0
6H	28.1	28.9	28.7	29.5	30.2	24.3	25.2	24.9	25.8	26.4
8H	28.9	29.7	29.5	30.3	30.9	24.4	25.2	25.0	25.8	26.5
12H	29.8	30.6	30.4	31.2	31.9	24.5	25.2	25.1	25.8	26.5
8H 4H	26.9	27.7	27.5	28.3	28.9	24.6	25.4	25.2	26.0	26.7
6H	28.6	29.3	29.2	29.9	30.6	25.3	26.0	26.0	26.6	27.4
8H	29.6	30.2	30.2	30.8	31.6	25.6	26.2	26.2	26.8	27.6
12H	30.8	31.3	31.5	32.0	32.7	25.8	26.3	26.4	27.0	27.7
12H 4H	26.9	27.6	27.5	28.2	28.9	24.8	25.6	25.4	26.2	26.9
6H	28.7	29.3	29.3	29.9	30.7	25.7	26.3	26.4	27.0	27.7
8H	29.8	30.3	30.4	31.0	31.7	26.1	26.6	26.8	27.3	28.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 5434 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.9)
Area: 0.08886 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

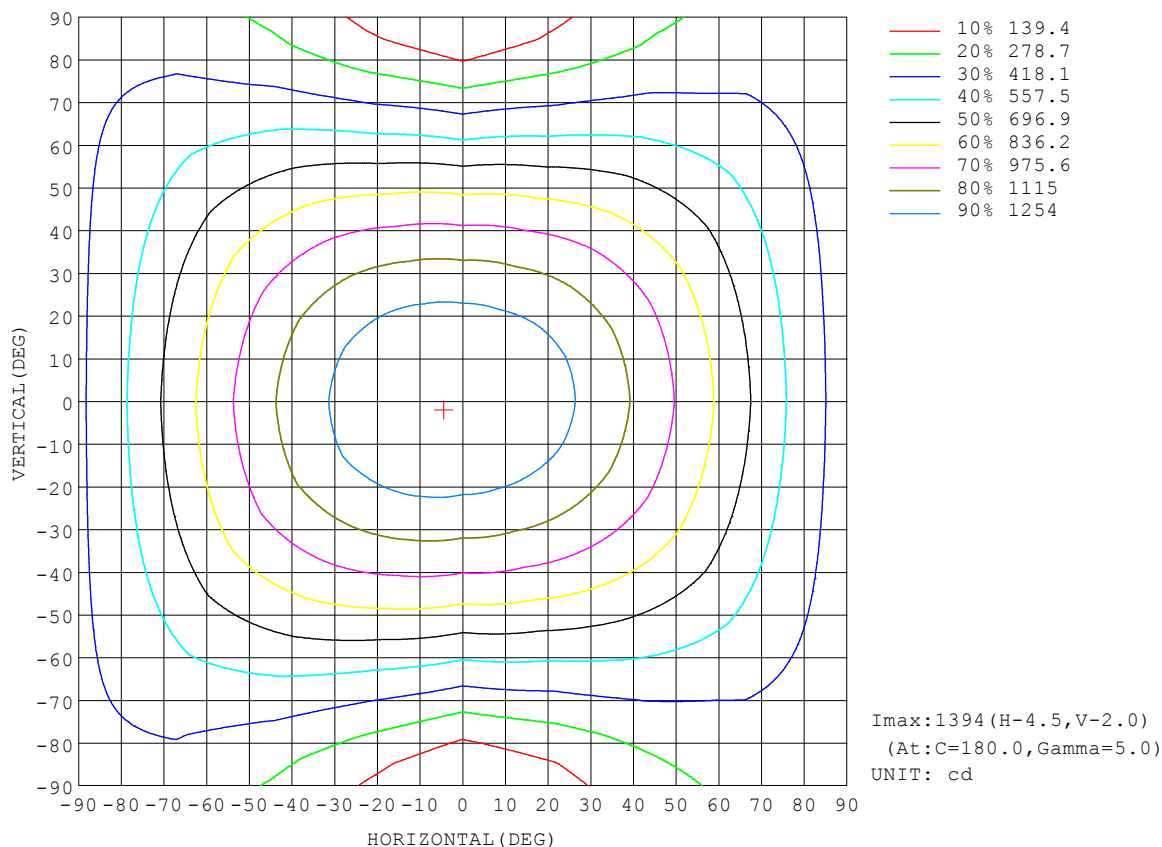
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	38	31	48	37	31	24
0.80	60	47	40	58	47	39	56	45	38	31
1.00	68	55	47	66	55	47	63	55	46	38
1.25	75	63	55	73	62	54	69	59	53	44
1.50	80	68	60	77	67	59	73	64	58	48
2.00	87	77	69	84	75	68	79	71	65	55
2.50	91	82	75	88	80	73	83	76	70	58
3.00	95	86	80	92	84	78	86	80	74	62
4.00	100	92	86	96	90	84	90	84	80	67
5.00	102	96	91	99	93	88	92	87	83	70
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: 2024-11-09

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

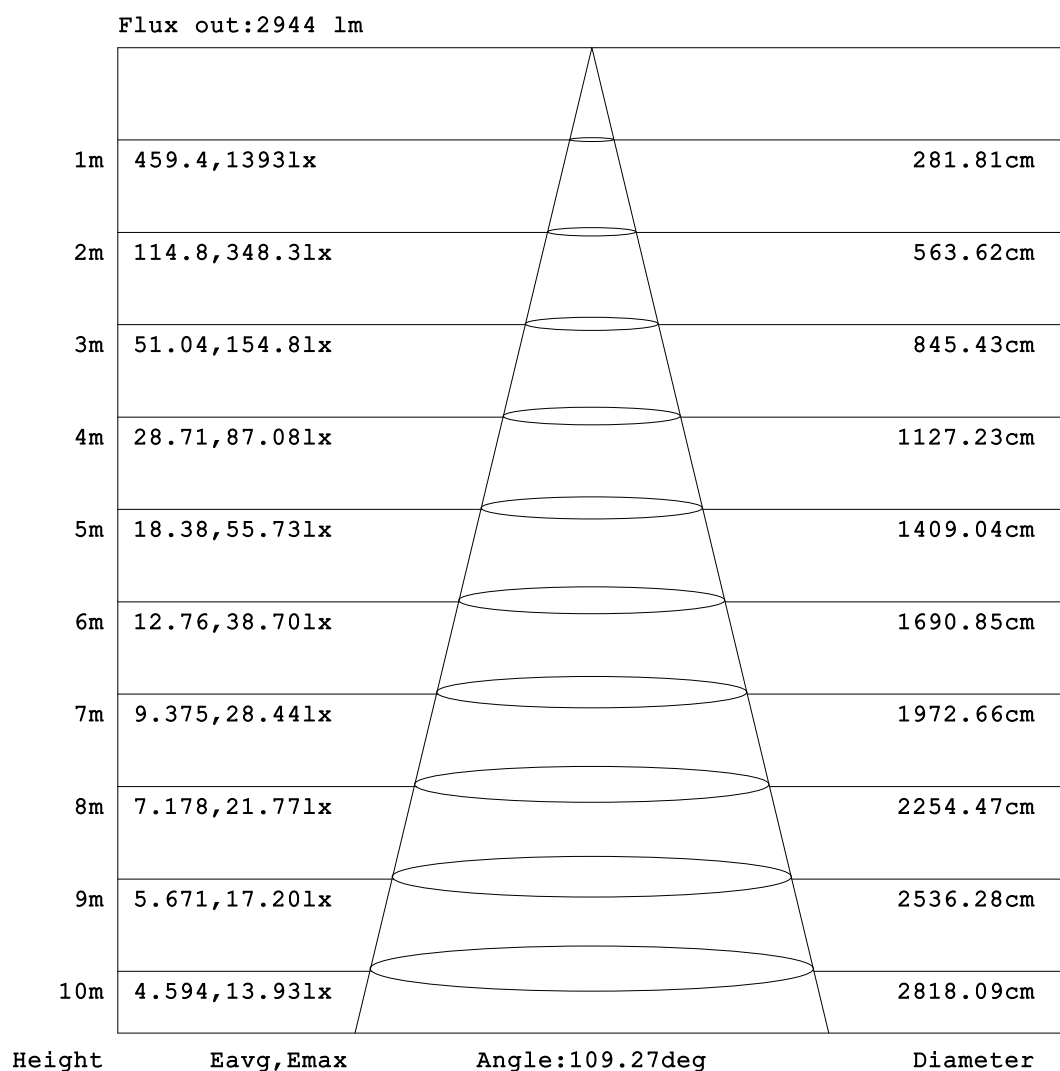


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



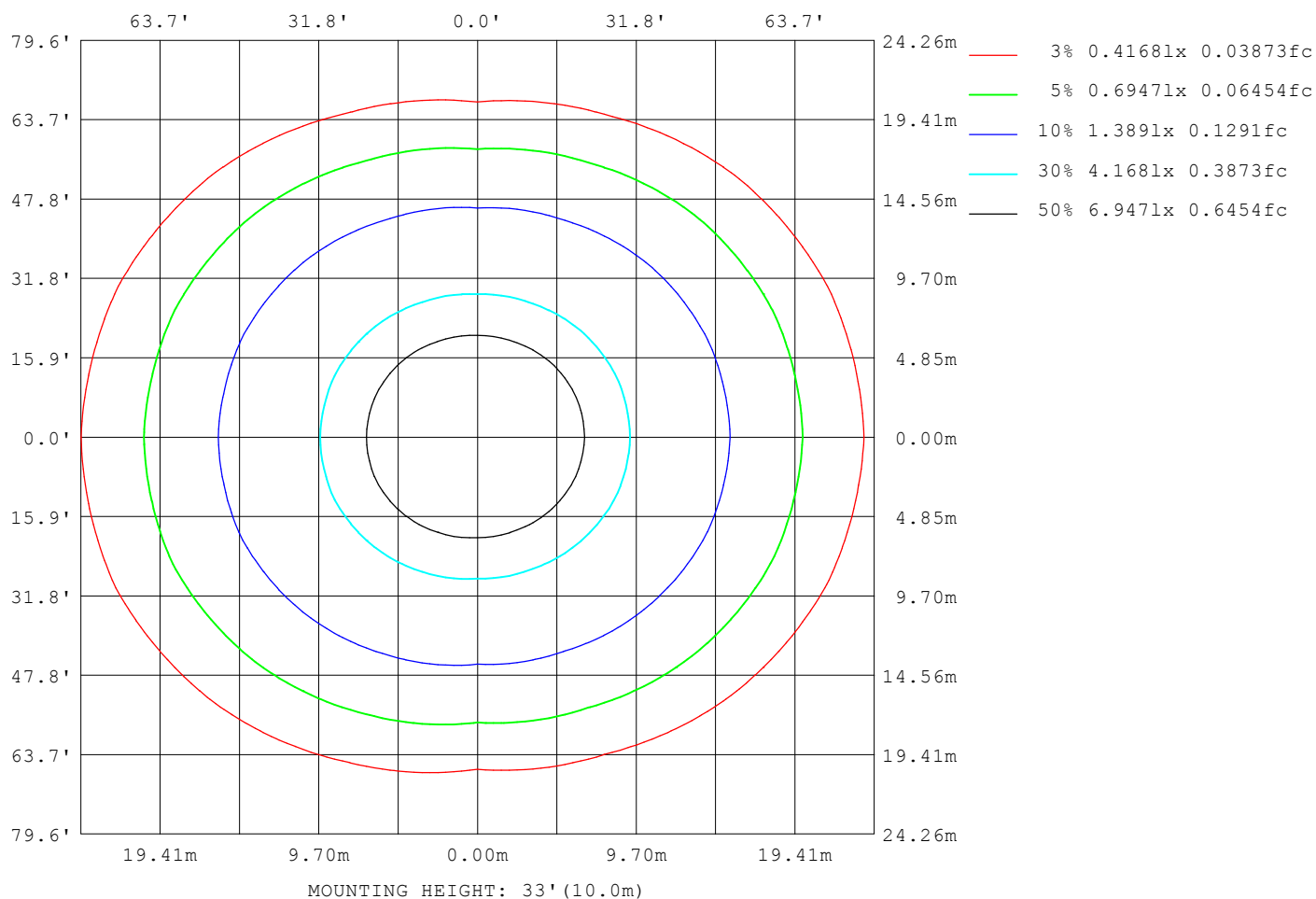
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	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:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

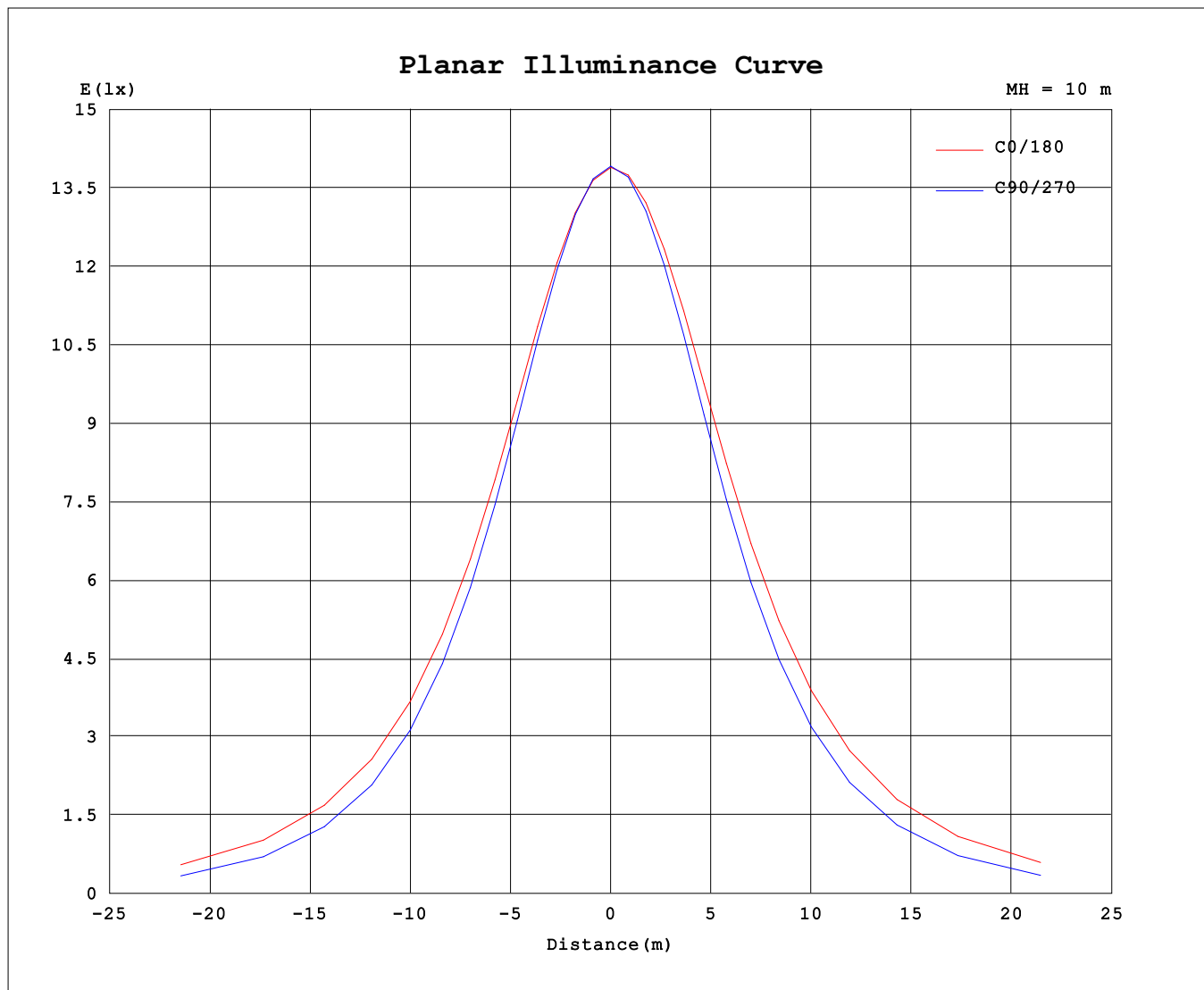
AvgL	cd/m2
L_0~180 (65) av	20451
L_0~180 (75) av	25995
L_0~180 (85) av	56573
L_90~270 (65) av	12318
L_90~270 (75) av	10150
L_90~270 (85) av	5489
L_45 (65) av	17252
L_45 (75) av	20142
L_45 (85) av	39040

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
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: 2024-11-09

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
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:230.42V I:0.1641A P:36.795W PF:0.9728 Freq:50.00Hz Lamp Flux:5434.05x1 lm		
NAME: B15-W3457KA (43W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	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	1392	1392	1392	1392	1392	1392	1392	1392	1392	1392	1392	1392	1392	1392	1392	1392			
5	1383	1382	1381	1382	1383	1386	1390	1392	1393	1393	1392	1389	1386	1384	1383	1384			
10	1367	1365	1360	1359	1360	1369	1377	1385	1386	1385	1380	1372	1367	1364	1365	1367			
15	1342	1339	1329	1324	1324	1338	1354	1368	1371	1368	1357	1343	1334	1331	1337	1341			
20	1310	1303	1288	1277	1276	1296	1319	1341	1346	1341	1324	1302	1288	1287	1298	1306			
25	1270	1259	1237	1219	1216	1242	1275	1305	1312	1304	1280	1249	1230	1232	1250	1264			
30	1222	1208	1178	1152	1146	1179	1222	1261	1270	1258	1227	1186	1161	1167	1193	1213			
35	1167	1150	1112	1077	1066	1107	1161	1208	1221	1205	1165	1113	1083	1094	1129	1156			
40	1107	1086	1039	994	979	1028	1092	1149	1164	1145	1095	1033	997	1013	1058	1093			
45	1041	1017	961	906	884	941	1017	1083	1101	1078	1019	945	903	926	982	1025			
50	971	943	878	812	784	850	937	1012	1033	1006	937	851	803	833	901	952			
55	898	866	791	715	679	754	852	936	958	928	851	753	697	737	816	875			
60	820	785	702	613	569	654	764	855	880	846	761	651	585	637	728	795			
65	739	701	612	507	455	551	674	770	797	760	668	546	470	534	638	711			
70	656	616	521	405	341	448	581	683	711	671	573	440	354	432	544	626			
75	572	528	431	306	227	349	489	596	624	582	478	337	240	333	455	541			
80	491	447	347	216	123	256	402	506	535	495	388	241	132	241	371	459			
85	420	377	279	141	39.6	177	323	428	457	416	309	160	45.5	165	298	388			
90	370	329	231	99.3	5.67	127	267	368	398	358	253	109	5.69	120	251	341			
95	338	298	204	80.8	6.23	104	236	331	360	321	222	86.8	5.57	99.5	223	309			
100	306	270	181	68.1	7.44	87.2	209	298	325	289	195	71.7	6.70	84.3	198	279			
105	276	243	161	59.3	8.76	74.8	185	267	292	258	171	61.1	7.92	73.0	176	251			
110	248	218	136	53.2	10.1	65.7	154	238	261	229	149	53.9	9.25	64.6	150	225			
115	221	187	118	48.1	11.5	58.0	134	201	225	191	124	48.5	10.5	58.0	129	192			
120	188	165	108	43.4	12.8	51.4	121	178	196	169	111	42.5	11.8	50.7	118	170			
125	168	147	96.6	40.1	14.0	47.2	107	158	176	152	98.3	39.7	13.0	46.6	105	152			
130	149	129	84.6	36.2	15.3	43.4	94.9	138	152	132	87.1	37.1	14.3	42.3	92.8	133			
135	129	113	73.9	33.1	16.5	40.4	83.8	120	131	114	76.8	34.9	15.5	38.0	80.8	116			
140	111	97.7	59.1	30.4	17.6	37.6	72.8	103	112	98.1	67.3	32.8	16.7	34.1	67.5	99.9			
145	94.3	83.5	49.8	28.2	18.6	34.8	62.8	87.6	94.7	83.5	58.4	28.9	17.8	31.0	55.3	85.1			
150	78.8	69.3	42.8	26.3	19.5	30.6	54.1	73.3	78.8	69.9	50.4	27.7	18.8	27.1	46.0	71.8			
155	65.0	53.7	37.2	26.2	20.4	28.8	46.3	60.6	64.1	57.6	43.2	26.3	19.7	27.0	39.0	58.9			
160	52.8	41.0	33.6	25.8	21.1	26.7	38.5	49.4	51.2	46.7	34.8	25.0	20.7	26.3	34.0	44.6			
165	42.1	33.5	29.9	24.9	21.8	25.0	31.7	36.7	39.7	35.3	30.1	23.9	21.5	25.3	29.7	33.2			
170	31.4	28.0	27.1	23.9	22.3	23.8	27.0	29.8	30.0	28.7	26.0	23.3	22.2	24.2	27.0	27.6			
175	25.6	24.9	24.2	23.1	22.6	23.1	23.9	24.6	24.5	24.2	23.5	22.9	22.6	23.2	24.2	24.4			
180	22.7	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.7	22.7	22.7	22.7	22.7			

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