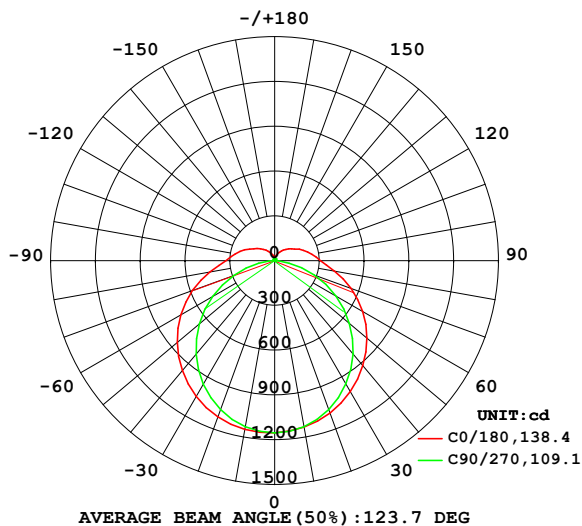


LUMINAIRE PHOTOMETRIC TEST REPORT

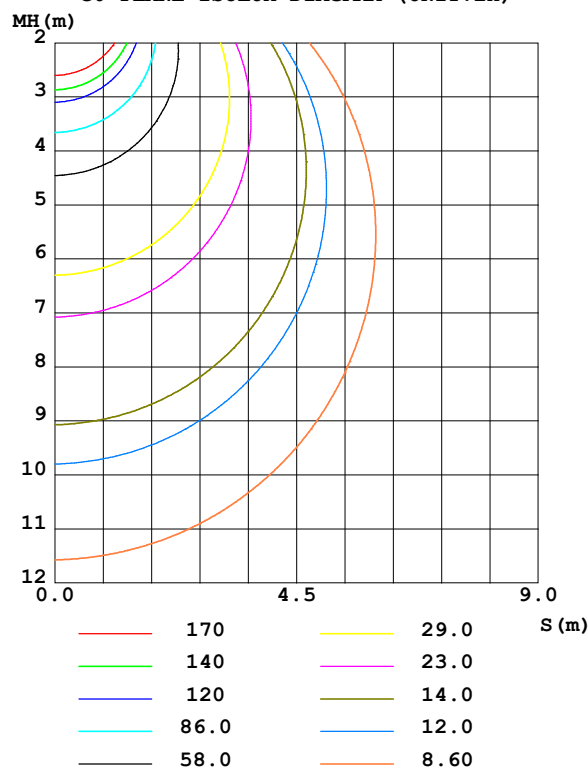
Test:U:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.40 lm/W			
MODEL		I _{max} (cd)	1154	S/MH(C0/180)	1.36
NOMINAL POWER(W)	29.7	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4503.1	η UP,DN(C0-180)	6.7,43.1
NOMINAL FLUX(lm)	4503.14	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	6.7,43.5
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℃
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	1133	1129	1130	1142	1148	1142	1130	1130	0- 10	109.2	109.2	2.43,2.43
20	1086	1072	1061	1095	1114	1095	1062	1072	10- 20	314.4	423.6	9.41,9.41
30	1013	983.9	954.4	1013	1051	1015	956.5	983.1	20- 30	481.0	904.6	20.1,20.1
40	919.1	870.6	816.8	904.0	961.9	906.9	819.8	869.3	30- 40	590.4	1495	33.2,33.2
50	807.1	739.4	654.5	774.0	852.7	777.9	659.8	737.7	40- 50	632.9	2128	47.3,47.3
60	681.7	595.0	474.3	628.5	726.1	634.1	479.6	593.9	50- 60	607.0	2735	60.7,60.7
70	545.8	444.6	282.9	474.4	586.4	479.1	291.8	441.4	60- 70	519.6	3255	72.3,72.3
80	408.8	300.3	99.98	323.5	440.0	330.1	110.0	297.8	70- 80	388.7	3643	80.9,80.9
90	307.4	203.1	3.932	213.2	327.4	218.5	4.462	198.7	80- 90	255.9	3899	86.6,86.6
100	254.1	160.7	5.738	165.6	267.8	169.6	5.715	156.3	90-100	183.3	4082	90.7,90.7
110	206.6	122.1	7.918	127.5	214.9	124.1	7.890	116.7	100-110	141.1	4223	93.8,93.8
120	155.9	96.09	10.08	95.38	161.4	97.42	10.08	92.29	110-120	102.1	4326	96.1,96.1
130	124.3	75.50	12.17	74.79	125.7	76.46	12.20	72.68	120-130	72.77	4398	97.7,97.7
140	92.70	55.01	14.08	57.67	92.31	58.70	14.23	51.46	130-140	49.13	4447	98.8,98.8
150	65.95	38.59	15.75	43.01	64.84	43.64	16.00	35.98	140-150	30.08	4478	99.4,99.4
160	44.27	28.63	17.22	29.95	42.27	30.17	17.49	27.50	150-160	16.37	4494	99.8,99.8
170	26.62	22.73	18.33	21.93	24.78	21.95	18.56	22.37	160-170	7.306	4501	100,100
180	18.89	18.86	18.88	18.84	18.87	18.83	18.88	18.81	170-180	1.955	4503	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1810.5 lm

%lum = 40.2%

%lamp = 40.2%

Conical surface Flux(120deg): 2734.9 lm

%lum = 60.7%

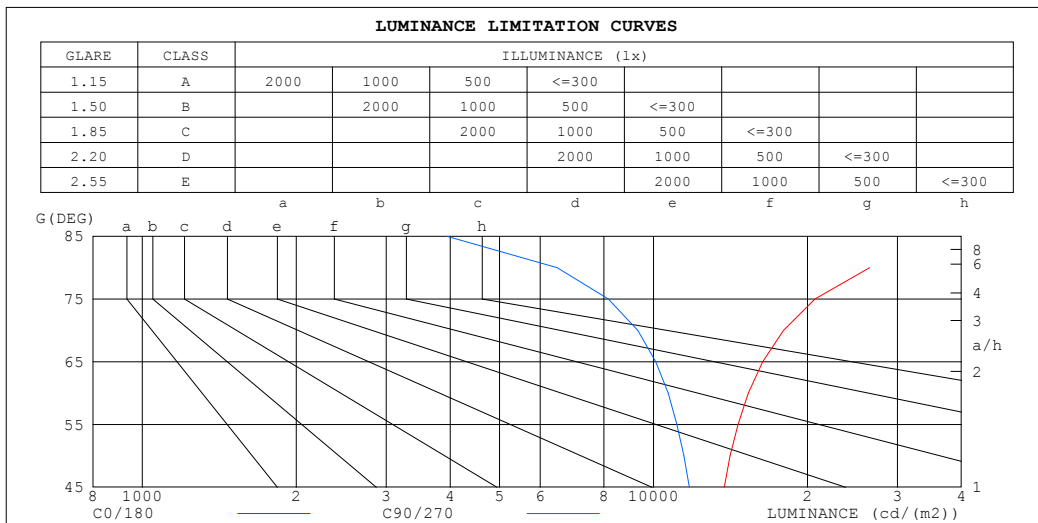
%lamp = 60.7%

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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	45033	3944
80	26469	6481
75	20676	8159
70	17943	9311
65	16352	10102
60	15329	10678
55	14620	11112
50	14117	11461
45	13755	11754

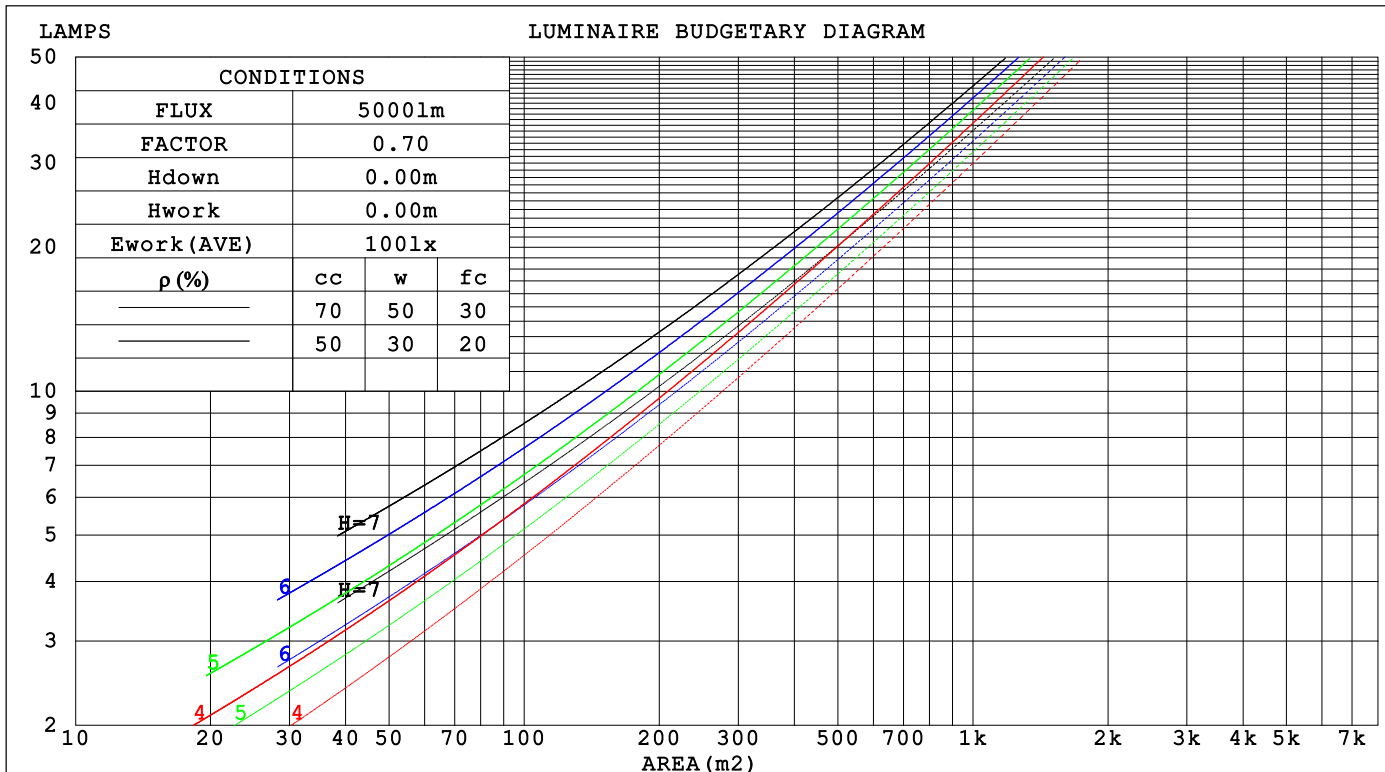
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-11-09

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 γ 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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 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	.50	.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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 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	.170	.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	.191	.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	.293	.293	.293	.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	.280	.236	.198	.240	.203	.171	.164	.140	.120	.095	.082	.070	.030	.026	.023		
3.0	.272	.219	.176	.233	.189	.153	.160	.131	.107	.093	.077	.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	.221	.170	.131	.152	.118	.093	.088	.070	.055	.028	.023	.018		
6.0	.249	.188	.144	.214	.163	.125	.148	.114	.089	.086	.067	.053	.028	.022	.017		
7.0	.242	.181	.138	.209	.157	.121	.144	.110	.085	.084	.065	.051	.027	.021	.017		
8.0	.236	.176	.134	.203	.152	.117	.141	.107	.083	.082	.063	.049	.026	.021	.016		
9.0	.230	.171	.131	.198	.148	.114	.137	.104	.081	.080	.062	.048	.026	.020	.016		
10.0	.224	.167	.129	.193	.145	.112	.134	.102	.080	.078	.060	.048	.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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm										
NAME: B15-W3457KA (34W 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	21.6	23.0	22.0	23.4	23.9	20.1	21.5	20.6	22.0	22.4
3H	23.9	25.2	24.4	25.6	26.1	21.5	22.8	22.0	23.3	23.8
4H	25.1	26.3	25.6	26.8	27.3	22.1	23.3	22.6	23.8	24.3
6H	26.3	27.5	26.9	28.0	28.6	22.4	23.5	22.9	24.0	24.6
8H	27.0	28.1	27.5	28.6	29.2	22.4	23.5	22.9	24.0	24.6
12H	27.8	28.9	28.4	29.4	30.0	22.4	23.5	22.9	24.0	24.6
4H 2H	22.1	23.4	22.6	23.9	24.4	21.0	22.3	21.5	22.8	23.3
3H	24.7	25.7	25.2	26.3	26.8	22.7	23.8	23.2	24.3	24.9
4H	26.0	27.0	26.6	27.6	28.2	23.4	24.4	23.9	24.9	25.5
6H	27.5	28.4	28.1	29.0	29.6	23.8	24.7	24.4	25.3	25.9
8H	28.3	29.1	28.9	29.7	30.4	23.9	24.7	24.5	25.3	26.0
12H	29.2	30.0	29.9	30.6	31.3	24.0	24.7	24.6	25.3	26.0
8H 4H	26.3	27.1	26.9	27.7	28.4	24.1	25.0	24.7	25.5	26.2
6H	28.1	28.8	28.7	29.4	30.1	24.9	25.6	25.5	26.2	26.9
8H	29.1	29.7	29.7	30.3	31.1	25.1	25.7	25.8	26.4	27.1
12H	30.3	30.8	30.9	31.5	32.2	25.3	25.9	26.0	26.5	27.3
12H 4H	26.3	27.1	26.9	27.7	28.4	24.3	25.1	25.0	25.7	26.4
6H	28.1	28.8	28.8	29.4	30.1	25.3	25.9	25.9	26.5	27.2
8H	29.2	29.8	29.9	30.4	31.2	25.7	26.2	26.3	26.9	27.6
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 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 4503 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.2$)
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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

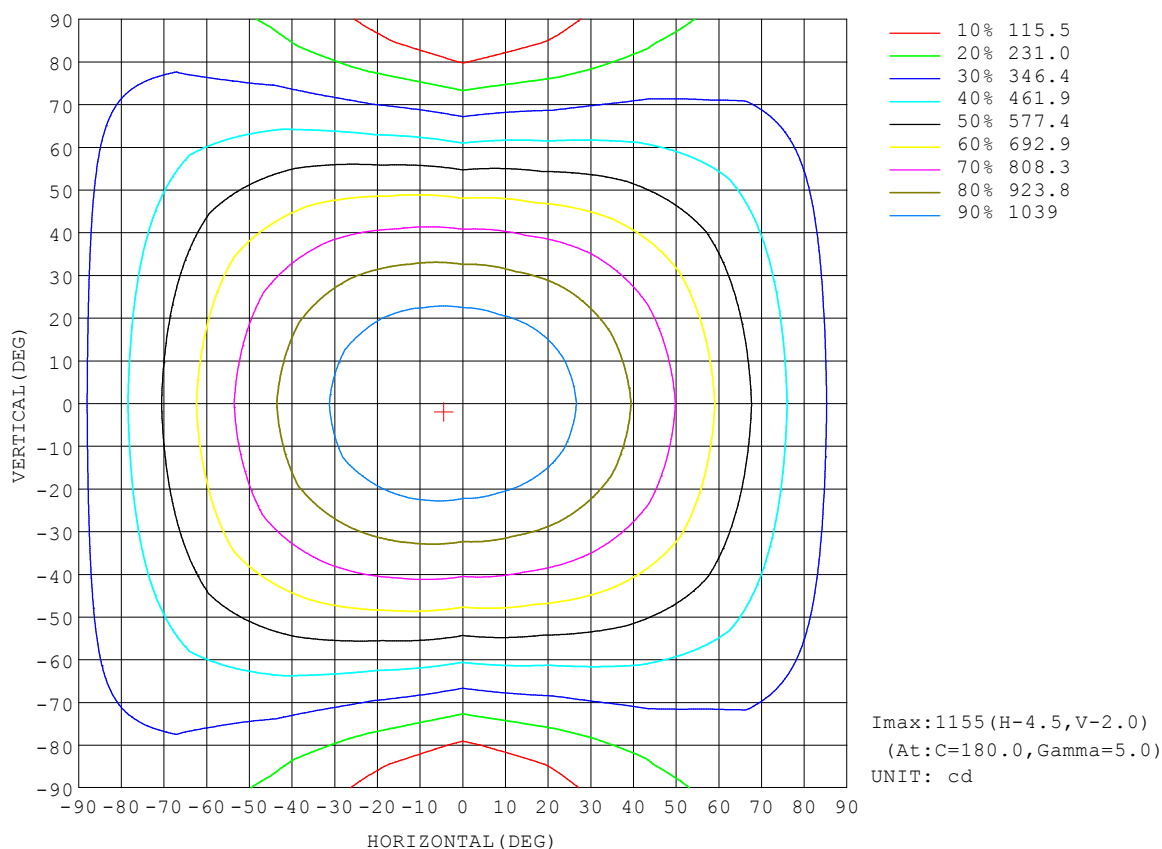
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	38	31	48	37	31	24
0.80	60	47	40	58	47	39	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	79	74	62
4.00	100	92	86	96	89	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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

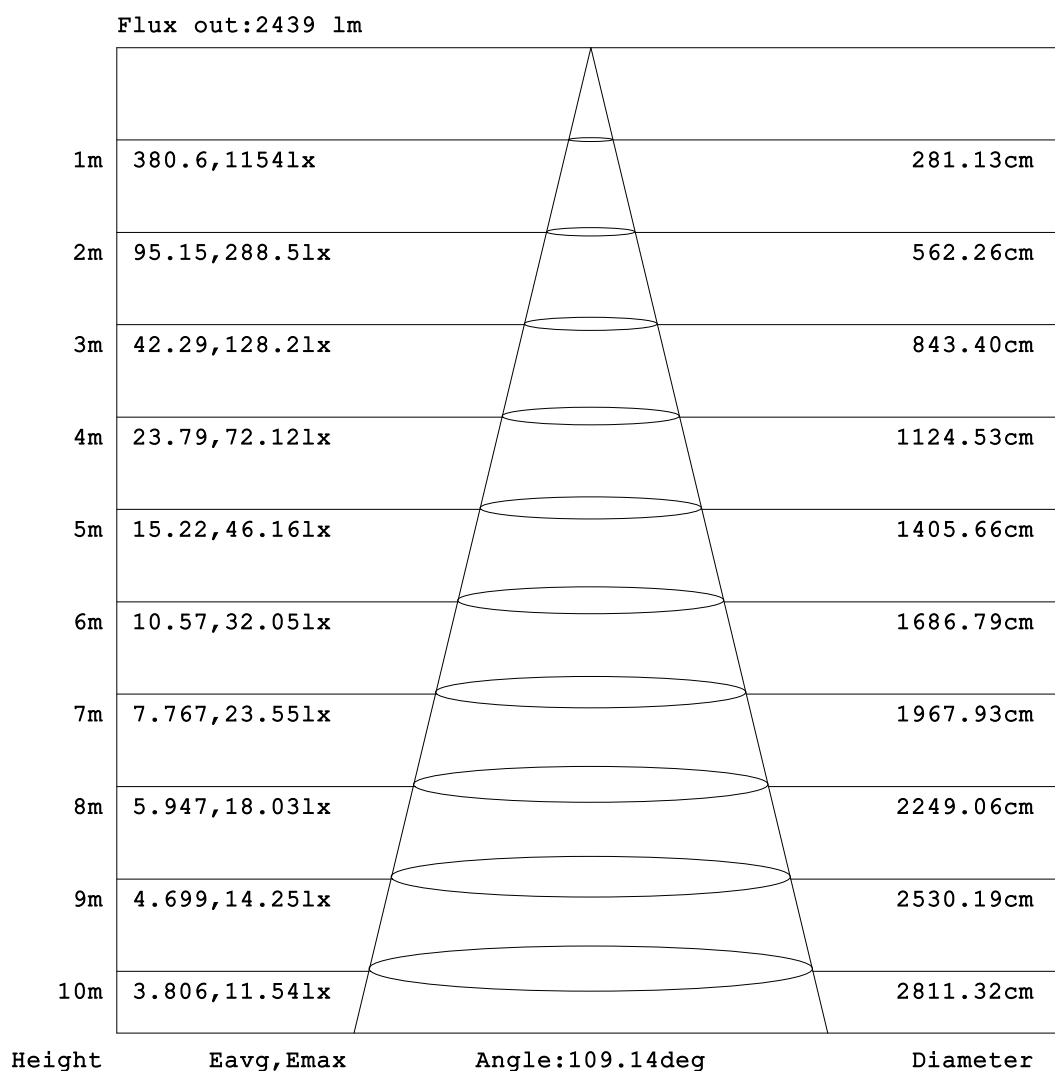


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-11-09

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:

AAI Figure

Test:U:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

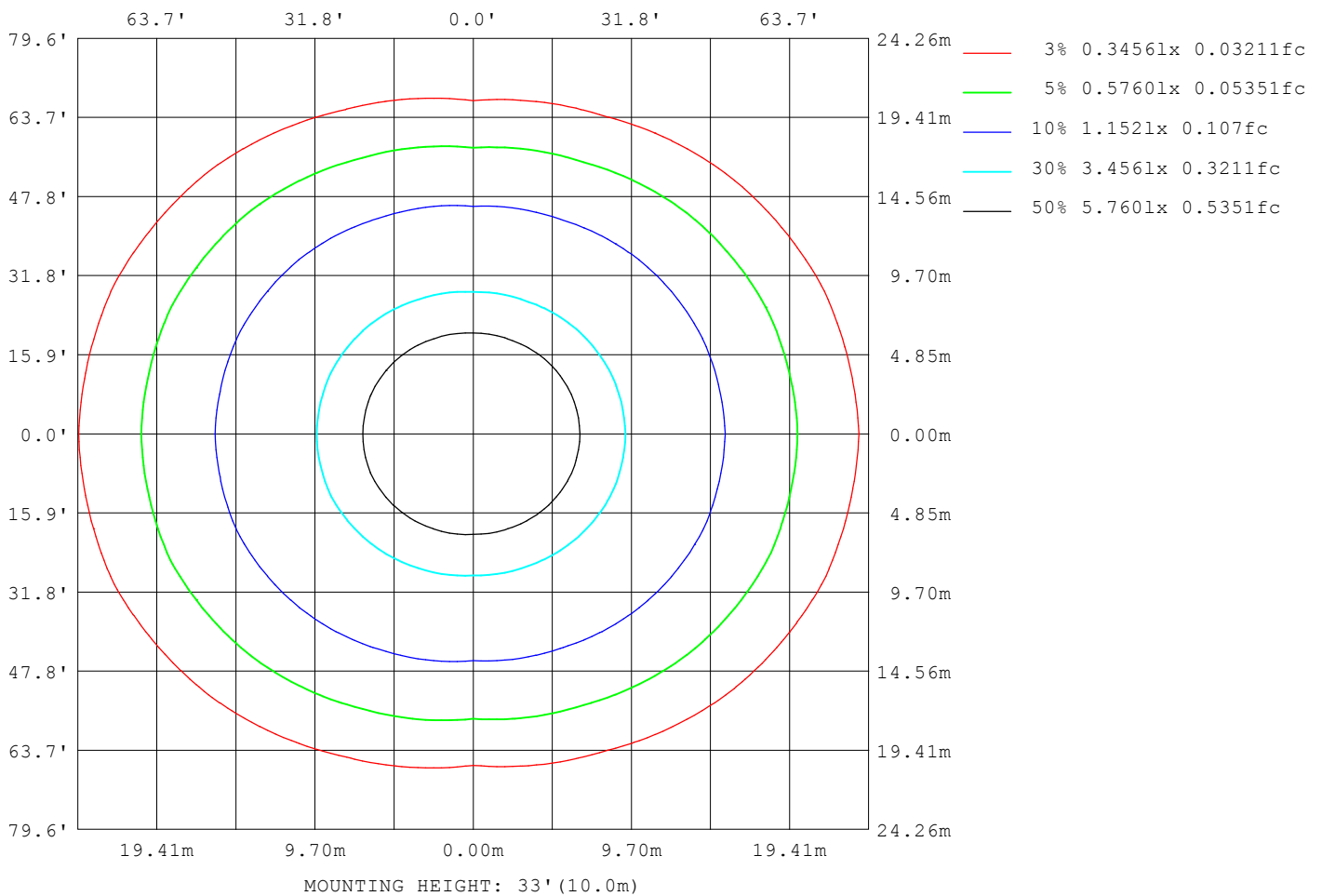


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-11-09

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:

ISOLUX DIAGRAM

Test:U:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.08886	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

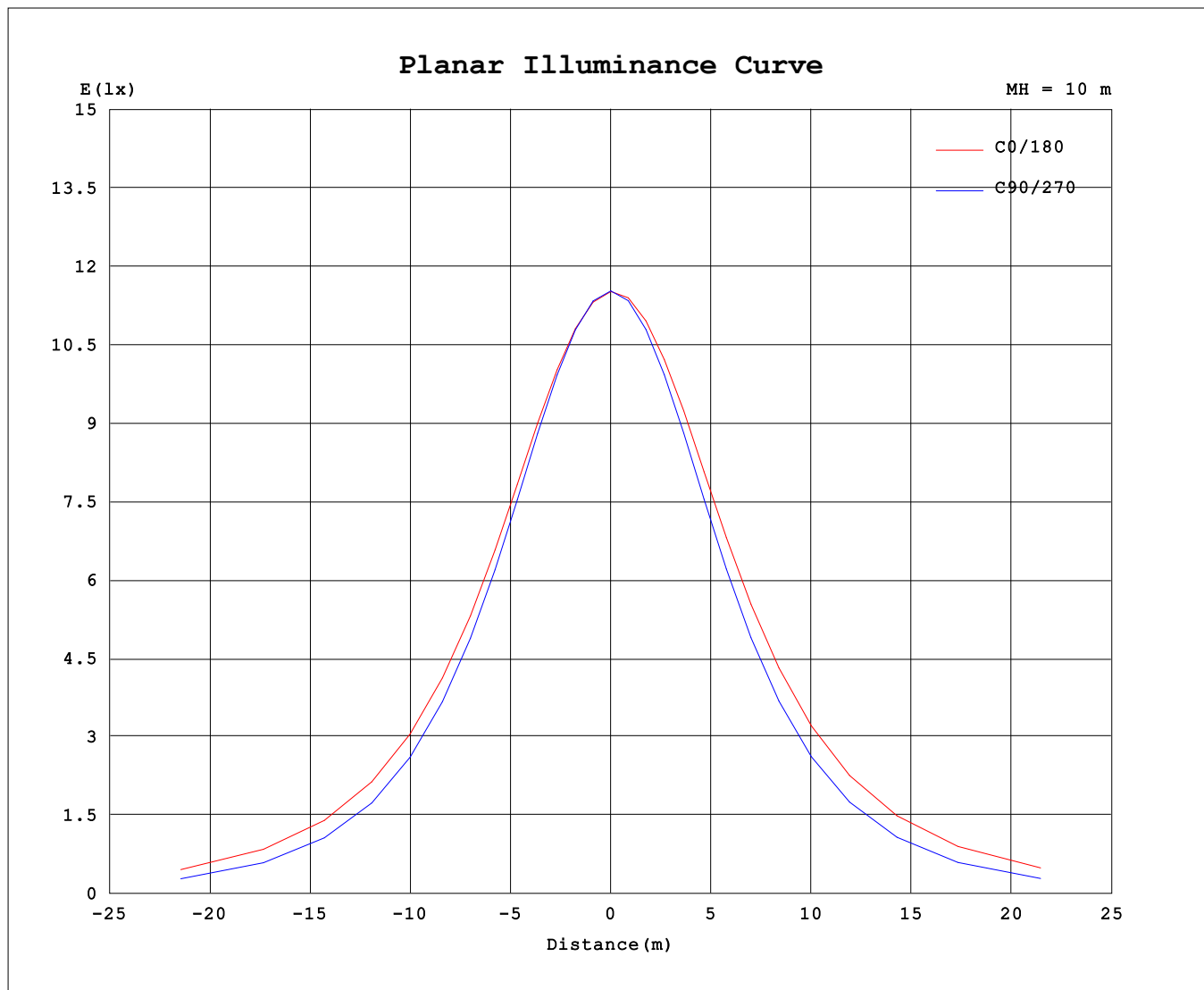
AvgL	cd/m2
L_0~180 (65) av	16934
L_0~180 (75) av	21451
L_0~180 (85) av	46771
L_90~270 (65) av	10195
L_90~270 (75) av	8383
L_90~270 (85) av	4442
L_45 (65) av	14281
L_45 (75) av	16718
L_45 (85) av	32322

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:230.38V I:0.1351A P:29.743W PF:0.9558 Freq:50.00Hz Lamp Flux:4503.14x1 lm		
NAME: B15-W3457KA (34W 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	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153			
5	1146	1146	1146	1146	1147	1150	1152	1154	1154	1154	1152	1149	1147	1145	1146	1146			
10	1133	1133	1129	1128	1130	1136	1142	1148	1148	1147	1142	1135	1130	1127	1130	1132			
15	1113	1112	1105	1100	1101	1111	1123	1133	1135	1132	1123	1110	1101	1099	1105	1110			
20	1086	1083	1072	1062	1061	1077	1095	1111	1114	1110	1095	1075	1062	1061	1072	1080			
25	1053	1048	1031	1016	1012	1032	1058	1081	1086	1079	1059	1031	1014	1014	1031	1045			
30	1013	1006	984	962	954	980	1013	1044	1051	1041	1015	979	956	960	983	1002			
35	968	959	930	900	889	920	962	1000	1009	997	964	919	892	898	929	954			
40	919	907	871	833	817	853	904	950	962	947	907	853	820	831	869	901			
45	865	850	807	760	738	781	841	895	910	892	845	781	742	758	806	844			
50	807	790	739	683	654	704	774	835	853	833	778	705	660	681	738	784			
55	746	726	668	602	566	623	703	772	791	769	707	625	571	601	667	720			
60	682	660	595	516	474	536	629	704	726	702	634	542	480	517	594	653			
65	615	591	520	431	379	451	552	633	657	631	557	457	386	433	516	583			
70	546	518	445	347	283	365	474	559	586	559	479	371	292	348	441	513			
75	476	448	370	265	188	281	397	484	511	485	403	288	198	265	368	442			
80	409	380	300	189	100.0	202	323	413	440	413	330	209	110	190	298	375			
85	349	321	240	128	30.5	137	258	348	375	349	265	143	38.3	127	238	315			
90	307	281	203	92.7	3.93	95.9	213	299	327	301	218	99.9	4.46	90.3	199	276			
95	280	255	181	76.5	4.75	77.7	188	269	296	270	192	80.8	4.72	73.9	176	250			
100	254	231	161	64.8	5.74	64.8	166	242	268	243	170	67.4	5.72	62.3	156	226			
105	230	208	143	56.4	6.81	55.5	146	217	241	217	150	57.5	6.78	53.9	139	203			
110	207	187	122	50.2	7.92	48.8	128	193	215	194	124	50.4	7.89	48.0	117	182			
115	184	161	105	45.4	9.01	43.7	107	161	185	164	107	44.4	9.00	42.8	101	155			
120	156	142	96.1	40.5	10.1	38.5	95.4	143	161	145	97.4	39.4	10.1	38.0	92.3	138			
125	140	127	85.7	37.3	11.1	35.2	84.6	128	145	128	86.3	36.6	11.2	35.1	82.5	123			
130	124	111	75.5	33.9	12.2	32.7	74.8	112	126	111	76.5	33.9	12.2	31.3	72.7	107			
135	108	96.8	66.2	30.6	13.2	30.7	65.9	96.6	108	96.7	67.6	31.7	13.2	28.5	64.0	93.9			
140	92.7	83.7	55.0	27.7	14.1	28.8	57.7	83.1	92.3	83.0	58.7	29.6	14.2	25.9	51.5	81.1			
145	78.7	71.5	45.1	25.4	14.9	26.3	49.9	70.7	78.0	70.7	50.7	27.4	15.2	23.8	41.8	69.3			
150	65.9	59.3	38.6	22.7	15.8	23.8	43.0	59.3	64.8	59.1	43.6	24.4	16.0	21.8	36.0	58.5			
155	54.4	49.6	32.7	22.4	16.5	22.5	36.8	48.9	52.8	48.6	37.3	23.0	16.7	21.9	30.7	45.3			
160	44.3	37.0	28.6	21.8	17.2	21.2	29.9	39.9	42.3	39.5	30.2	21.6	17.5	21.6	27.5	34.4			
165	35.3	28.6	25.1	21.0	17.8	20.1	25.5	29.9	32.6	29.6	25.7	20.4	18.1	20.9	24.7	26.9			
170	26.6	23.7	22.7	20.0	18.3	19.4	21.9	24.3	24.8	24.0	22.0	19.6	18.6	20.0	22.4	22.8			
175	21.4	20.7	20.2	19.2	18.7	19.0	19.7	20.2	20.3	20.1	19.6	19.1	18.8	19.3	20.0	20.4			
180	18.9	18.8	18.9	18.8	18.9	18.8	18.8	18.8	18.9	18.8	18.8	18.8	18.9	18.8	18.8	18.8			

C Range: 0 - 360DEG
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