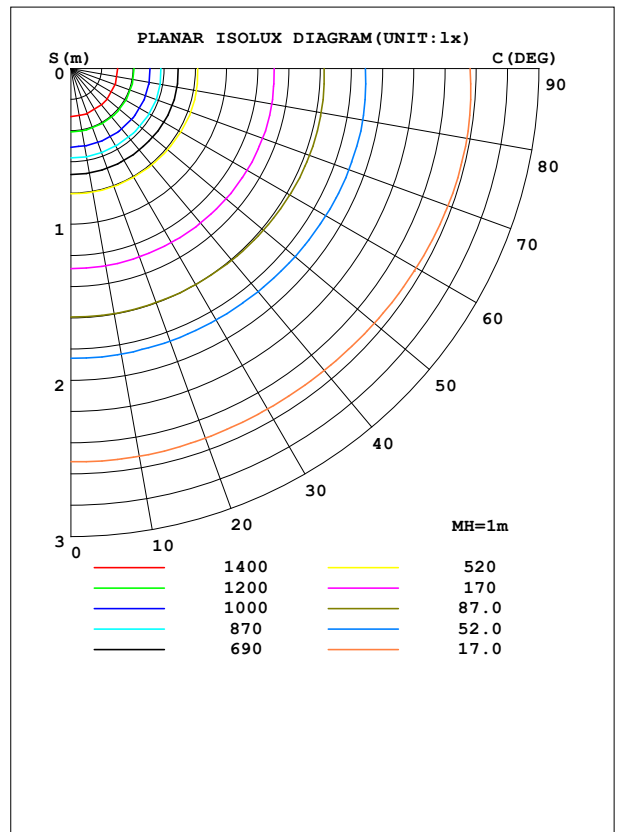
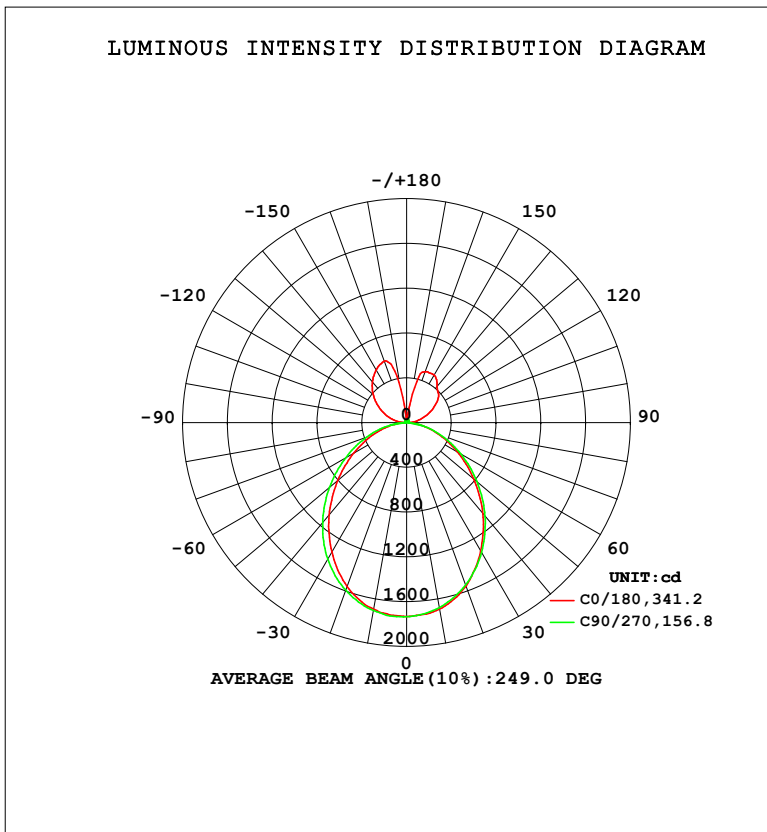


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz		
UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	1737	S/MH (C0/180)	1.16
NOMINAL POWER (W)	50	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	5577.3	η UP, DN (C0-180)	12.2, 36.5
NOMINAL FLUX (lm)	5577.3	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	12.5, 38.8
LAMPS INSIDE	1	η up (%)	24.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	75.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators:
 Test Date: 02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000B_V1 SYSTEM V2.00.458
 Humidity: 65.0%
 Test Distance: 7.940m [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	1692	1687	1679	1685	1693	1701	1705	1709	0- 10	163.4	163.4	2.93,2.93
20	1554	1551	1543	1547	1558	1583	1593	1597	10- 20	462.1	625.5	11.2,11.2
30	1324	1336	1340	1330	1335	1381	1409	1401	20- 30	676.2	1302	23.3,23.3
40	1060	1074	1089	1069	1079	1125	1168	1142	30- 40	770.8	2073	37.2,37.2
50	782.1	806.0	821.1	802.3	803.3	855.6	899.5	872.6	40- 50	746.0	2818	50.5,50.5
60	523.9	541.5	558.0	539.1	545.2	593.1	629.4	603.3	50- 60	623.0	3441	61.7,61.7
70	302.5	308.2	321.2	306.1	319.7	355.2	379.3	359.3	60- 70	442.4	3884	69.6,69.6
80	116.8	117.1	125.3	115.0	130.6	152.6	164.6	155.0	70- 80	242.6	4127	74,74
90	22.78	20.26	14.74	20.85	30.00	30.13	16.24	27.69	80- 90	71.33	4198	75.3,75.3
100	92.85	94.45	15.88	104.7	95.50	85.34	16.36	82.57	90-100	50.08	4248	76.2,76.2
110	187.2	194.7	17.45	203.3	192.1	184.0	17.42	178.7	100-110	130.4	4378	78.5,78.5
120	286.2	258.3	19.21	302.4	293.1	285.5	19.13	265.8	110-120	204.2	4583	82.2,82.2
130	375.6	319.0	20.81	392.9	390.0	384.2	20.29	324.2	120-130	252.7	4835	86.7,86.7
140	425.9	300.5	22.67	472.0	476.0	473.5	21.65	384.4	130-140	268.0	5103	91.5,91.5
150	492.1	300.5	24.32	537.7	544.7	541.0	23.39	392.8	140-150	239.9	5343	95.8,95.8
160	485.2	294.1	25.80	525.0	585.1	531.0	25.02	349.9	150-160	162.9	5506	98.7,98.7
170	139.6	45.30	27.01	57.82	301.8	90.11	26.66	59.83	160-170	66.86	5573	99.9,99.9
180	25.88	27.30	27.44	27.25	25.89	27.31	27.43	27.19	170-180	4.383	5577	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2455.6 lm

%lum = 44.0%

%lamp = 44.0%

Conical surface Flux(130deg): 3687.3 lm

%lum = 66.1%

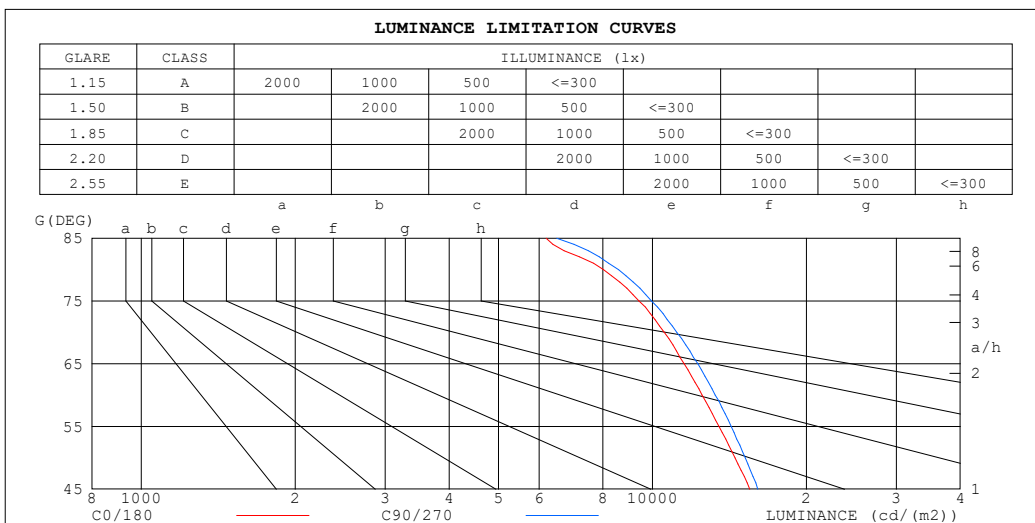
%lamp = 66.1%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: GO-2000B_V1 SYSTEM V2.00.458
Humidity:65.0%
Test Distance:7.940m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6199	6497
80	8023	8576
75	9413	9962
70	10548	11163
65	11531	12267
60	12496	13268
55	13493	14253
50	14511	15186
45	15502	16060

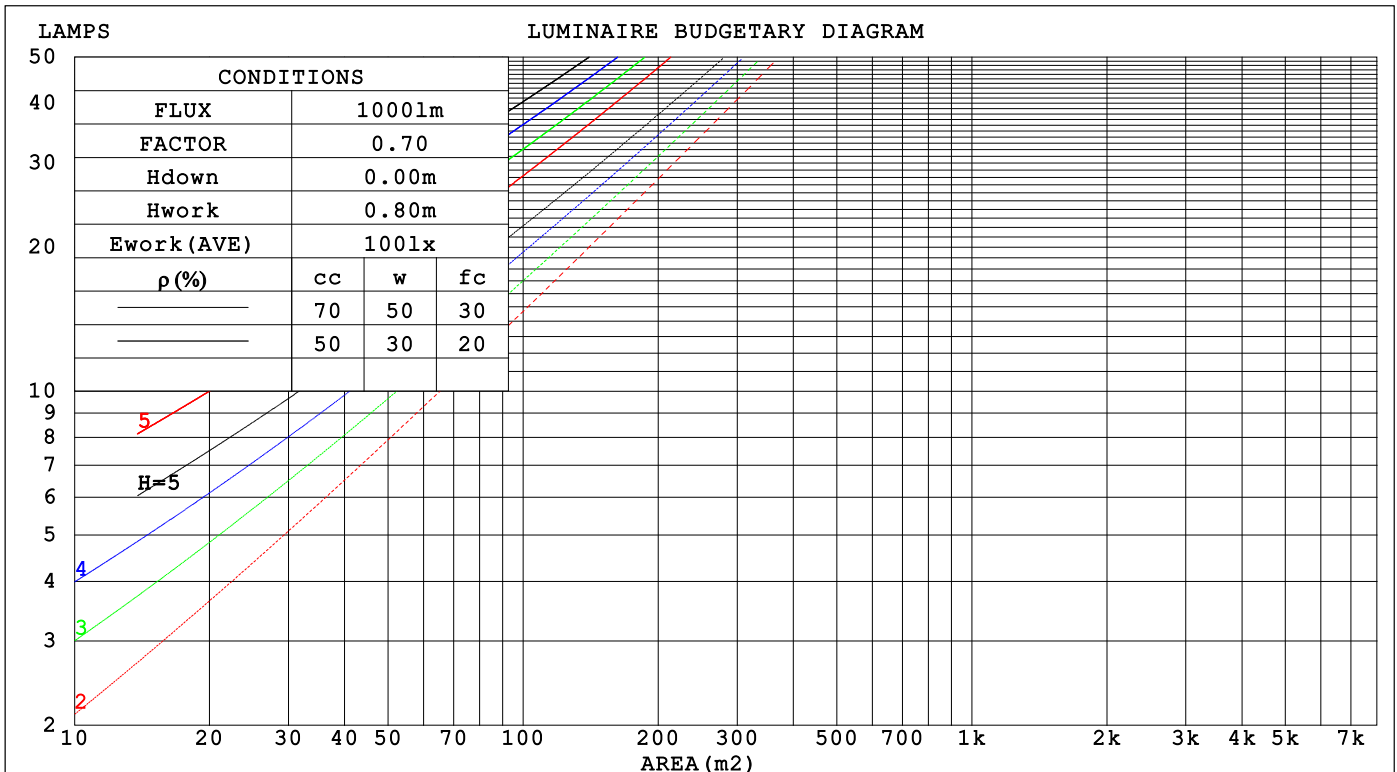
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators:
 Test Date: 02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000B_V1 SYSTEM V2.00.458
 Humidity: 65.0%
 Test Distance: 7.940m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz		
UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	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	1.13	1.13	1.13	1.08	1.08	1.08	.97	.97	.97	.88	.88	.88	.79	.79	.79	.75
1.0	.99	.95	.92	.95	.91	.88	.86	.83	.81	.78	.76	.74	.71	.69	.67	.64
2.0	.87	.81	.75	.83	.77	.73	.76	.71	.67	.69	.65	.62	.62	.60	.57	.54
3.0	.77	.69	.63	.73	.67	.61	.67	.61	.57	.61	.57	.53	.56	.52	.49	.46
4.0	.68	.60	.54	.65	.58	.52	.60	.54	.49	.55	.50	.46	.50	.46	.42	.40
5.0	.61	.53	.47	.59	.51	.45	.54	.47	.42	.49	.44	.40	.45	.41	.37	.35
6.0	.55	.47	.41	.53	.45	.40	.49	.42	.37	.45	.39	.35	.41	.36	.33	.31
7.0	.50	.42	.36	.48	.40	.35	.44	.38	.33	.41	.35	.31	.38	.33	.29	.27
8.0	.46	.38	.32	.44	.36	.31	.41	.34	.30	.37	.32	.28	.35	.30	.26	.24
9.0	.42	.34	.29	.40	.33	.28	.37	.31	.27	.35	.29	.25	.32	.27	.24	.22
10.0	.39	.31	.26	.37	.30	.26	.35	.28	.24	.32	.27	.23	.30	.25	.22	.20



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000B_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:7.940m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz		
UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.285	.162	.051	.270	.154	.049	.243	.139	.045	.218	.126	.040	.195	.113	.036	
2.0	.267	.146	.045	.254	.140	.043	.230	.128	.040	.207	.116	.036	.186	.105	.033	
3.0	.248	.132	.040	.236	.126	.038	.214	.116	.035	.193	.106	.033	.174	.097	.030	
4.0	.230	.119	.035	.219	.115	.034	.199	.105	.031	.180	.097	.029	.163	.088	.027	
5.0	.213	.109	.031	.204	.104	.030	.185	.096	.028	.168	.089	.026	.152	.081	.024	
6.0	.199	.100	.028	.190	.096	.028	.173	.089	.026	.157	.082	.024	.142	.075	.022	
7.0	.185	.092	.026	.177	.088	.025	.162	.082	.024	.147	.075	.022	.133	.069	.020	
8.0	.174	.085	.024	.166	.082	.023	.152	.076	.022	.138	.070	.020	.126	.064	.019	
9.0	.163	.079	.022	.156	.076	.021	.143	.071	.020	.130	.065	.019	.118	.060	.017	
10.0	.154	.074	.020	.147	.071	.020	.135	.066	.019	.123	.061	.017	.112	.056	.016	

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.379	.379	.379	.324	.324	.324	.221	.221	.221	.127	.127	.127	.041	.041	.041	
2.0	.360	.323	.292	.309	.278	.253	.211	.193	.176	.122	.112	.103	.039	.036	.034	
3.0	.353	.306	.270	.302	.264	.234	.207	.184	.164	.120	.107	.097	.039	.035	.032	
4.0	.345	.294	.254	.296	.254	.221	.204	.177	.156	.118	.104	.092	.038	.034	.030	
5.0	.338	.284	.244	.290	.245	.212	.200	.172	.150	.116	.101	.089	.037	.033	.029	
6.0	.332	.276	.236	.285	.239	.205	.197	.167	.145	.114	.098	.086	.037	.032	.029	
7.0	.325	.269	.230	.280	.233	.200	.193	.164	.142	.112	.096	.085	.036	.032	.028	
8.0	.319	.264	.226	.275	.229	.197	.190	.161	.139	.111	.095	.083	.036	.031	.028	
9.0	.314	.259	.222	.270	.225	.194	.187	.158	.138	.109	.093	.082	.035	.031	.027	
10.0	.308	.255	.219	.266	.221	.191	.184	.156	.136	.108	.092	.081	.035	.030	.027	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:
 Test Date:02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000B_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:7.940m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm										
NAME: UDLA-SW3C50			TYPE:			WEIGHT:				
SPEC.: 120~277V			DIM.: 1.2*0.07			SERIAL No.:				
MFR.:			SUR.: 1.2*0.07			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	20.1	21.2	20.6	21.8	22.4	20.4	21.5	20.9	22.1	22.8
3H	21.2	22.2	21.8	22.9	23.6	21.6	22.6	22.2	23.2	23.9
4H	21.6	22.6	22.3	23.2	24.0	22.0	23.0	22.6	23.6	24.3
6H	21.9	22.8	22.5	23.5	24.2	22.3	23.2	22.9	23.8	24.6
8H	21.9	22.8	22.6	23.5	24.2	22.3	23.2	23.0	23.9	24.6
12H	22.0	22.8	22.6	23.5	24.2	22.3	23.2	23.0	23.9	24.6
4H 2H	20.5	21.5	21.1	22.1	22.8	20.7	21.7	21.4	22.3	23.1
3H	21.8	22.6	22.5	23.3	24.1	22.1	22.9	22.8	23.6	24.4
4H	22.3	23.1	23.0	23.8	24.6	22.7	23.4	23.4	24.1	24.9
6H	22.7	23.4	23.4	24.1	24.9	23.0	23.7	23.8	24.4	25.3
8H	22.8	23.4	23.5	24.1	25.0	23.1	23.8	23.9	24.5	25.4
12H	22.8	23.4	23.6	24.1	25.0	23.2	23.8	23.9	24.5	25.4
8H 4H	22.5	23.1	23.2	23.8	24.7	22.8	23.4	23.5	24.1	25.0
6H	22.9	23.4	23.7	24.2	25.1	23.3	23.8	24.0	24.5	25.4
8H	23.1	23.5	23.9	24.3	25.2	23.4	23.9	24.2	24.7	25.6
12H	23.2	23.6	24.0	24.4	25.3	23.5	23.9	24.3	24.7	25.7
12H 4H	22.4	23.0	23.2	23.7	24.6	22.7	23.3	23.5	24.0	24.9
6H	22.9	23.4	23.7	24.2	25.1	23.3	23.7	24.0	24.5	25.4
8H	23.1	23.5	23.9	24.3	25.3	23.5	23.8	24.3	24.6	25.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3				

CIE Pub.117, 5577 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.0$)
Area: 0.084 m²

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: GO-2000B_V1 SYSTEM V2.00.458
Humidity:65.0%
Test Distance:7.940m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:

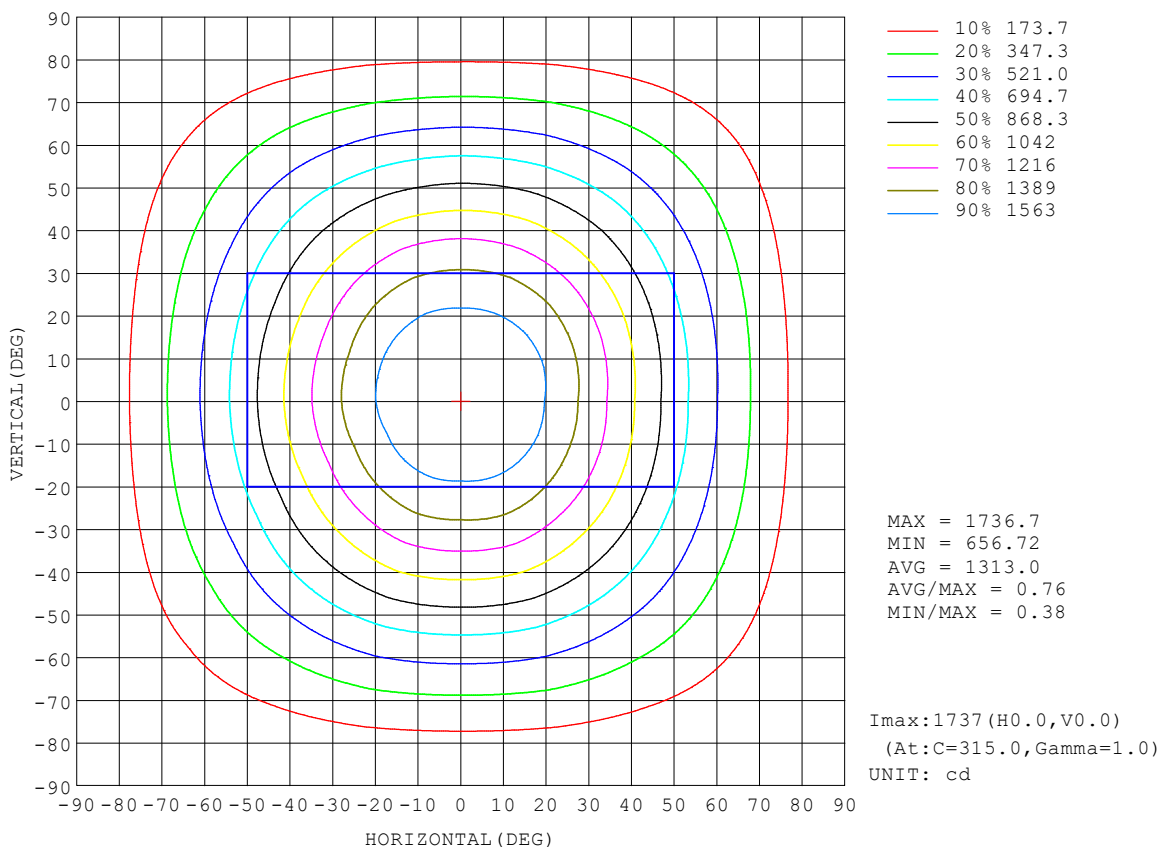
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	42	35	51	41	35	49	39	34	27
0.80	62	51	44	60	50	43	57	48	42	34
1.00	70	59	52	68	58	51	63	57	49	40
1.25	77	67	60	74	65	58	69	61	56	46
1.50	82	72	65	79	70	64	73	66	60	49
2.00	89	80	74	85	77	72	78	72	67	55
2.50	93	85	79	89	82	76	81	76	72	58
3.00	96	89	83	92	86	81	84	79	75	60
4.00	100	94	89	95	90	86	87	83	80	64
5.00	103	98	93	98	93	90	89	86	83	66
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:
Test Date:02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: GO-2000B_V1 SYSTEM V2.00.458
Humidity:65.0%
Test Distance:7.940m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:



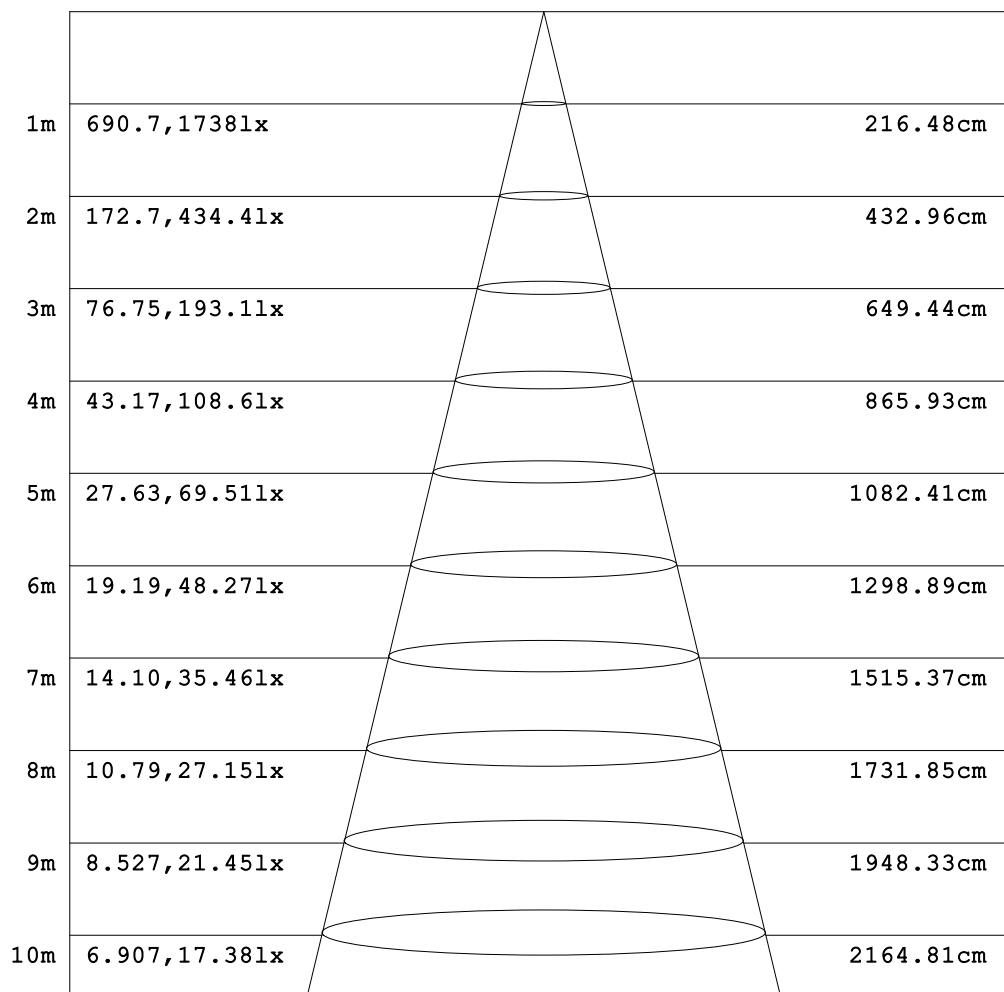
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000B_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:7.940m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:

Flux out:2677 lm



Height Eavg, Emax Angle:94.53deg Diameter

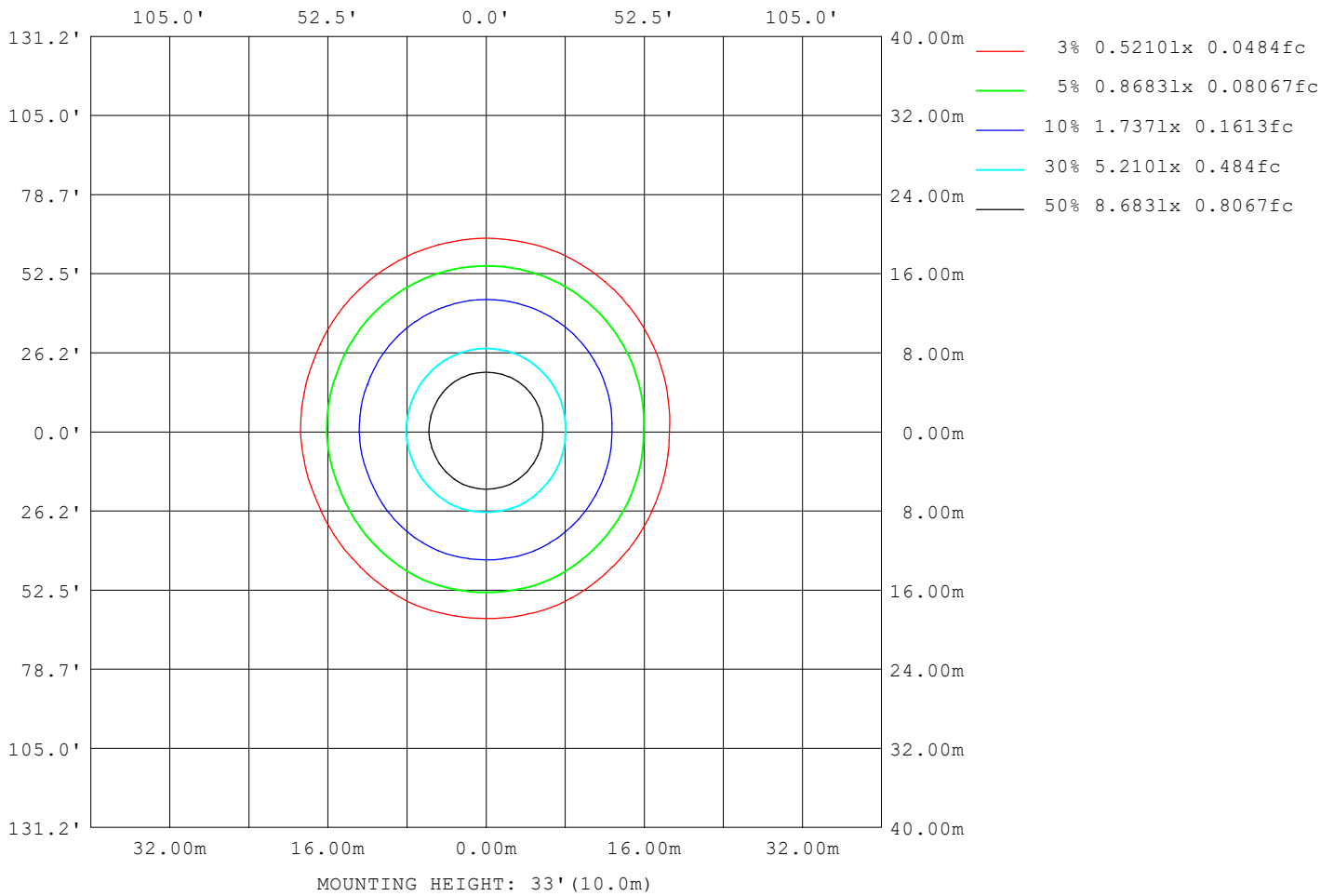
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3 °C
 Operators:
 Test Date:02 April 2024

γ Range: 0 - 180DEG
 γInterval: 1.0DEG
 Test System: GO-2000B_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:7.940m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000B_V1 SYSTEM V2.00.458
 Humidity:65.0%
 Test Distance:7.940m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	Shielding Angle:

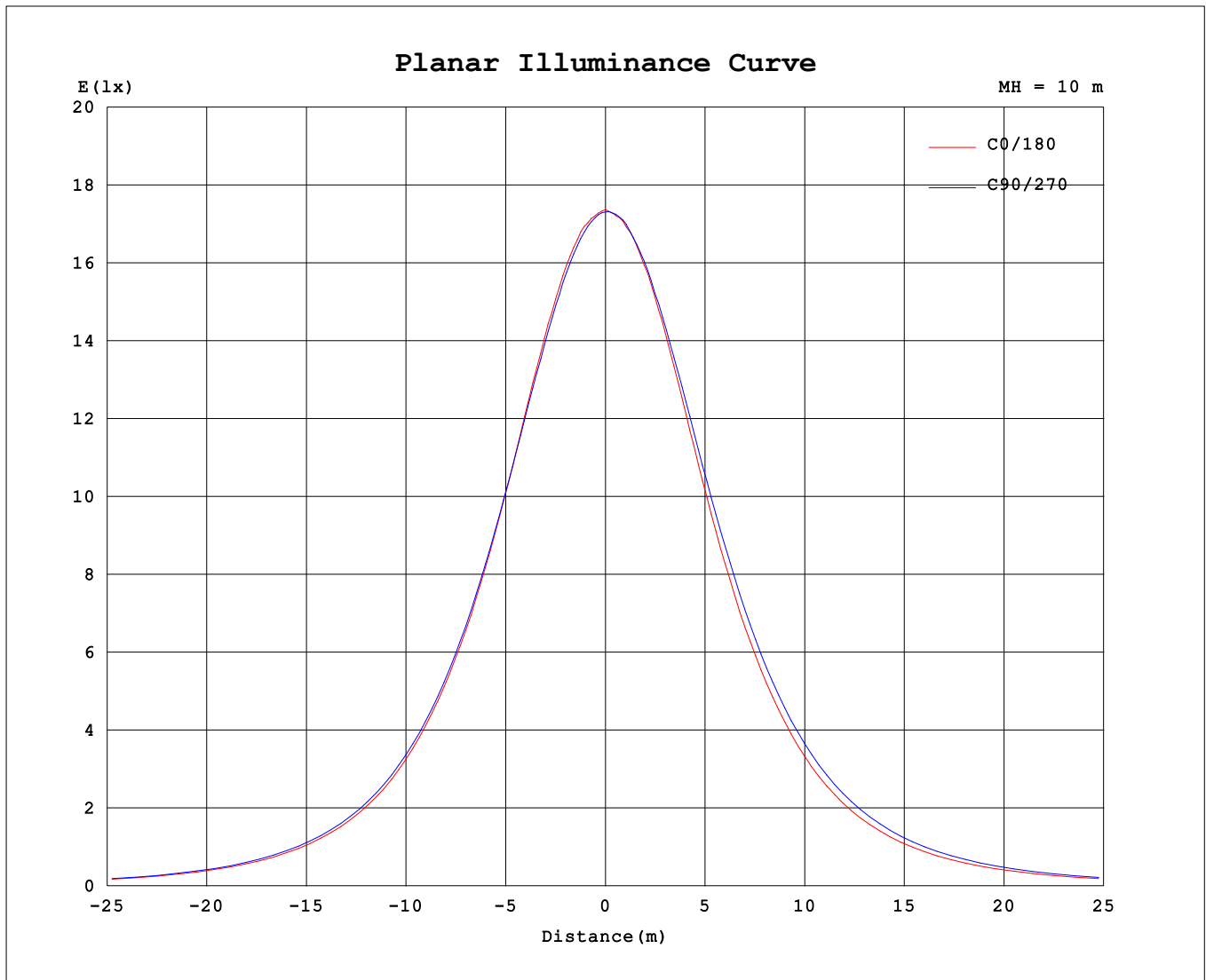
AvgL	cd/m2
L_0~180 (65) av	11792
L_0~180 (75) av	9765
L_0~180 (85) av	7226
L_90~270 (65) av	13187
L_90~270 (75) av	11114
L_90~270 (85) av	8679
L_45 (65) av	12577
L_45 (75) av	10495
L_45 (85) av	7916

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:02 April 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: GO-2000B_V1 SYSTEM V2.00.458
Humidity:65.0%
Test Distance:7.940m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators:
Test Date: 02 April 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: GO-2000B_V1 SYSTEM V2.00.458
Humidity: 65.0%
Test Distance: 7.940m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.98V I:0.4143A P:48.658W PF:0.9789 Freq:60.01Hz		
UTHDi:0.47% ITHDi:8.34% KDisp:0.0000 Lamp Flux:5577.3x1 lm		
NAME: UDLA-SW3C50	TYPE:	WEIGHT:
SPEC.: 120~277V	DIM.: 1.2*0.07	SERIAL No.:
MFR.:	SUR.: 1.2*0.07	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	1734	1734	1734	1734	1734	1734	1734	1734	1734	1734	1734	1734	1734	1734	1734	1734			
5	1720	1719	1716	1712	1716	1716	1716	1718	1724	1725	1725	1724	1733	1726	1727	1730			
10	1692	1692	1687	1675	1679	1682	1685	1684	1693	1695	1701	1697	1705	1703	1709	1704			
15	1633	1634	1629	1623	1620	1623	1628	1625	1638	1643	1656	1652	1662	1661	1663	1656			
20	1554	1554	1551	1550	1543	1549	1547	1541	1558	1566	1583	1592	1593	1596	1597	1582			
25	1446	1448	1455	1456	1448	1458	1449	1434	1455	1465	1491	1504	1510	1513	1510	1482			
30	1324	1324	1336	1349	1340	1347	1330	1314	1335	1345	1381	1405	1409	1413	1401	1362			
35	1195	1197	1207	1225	1219	1227	1204	1186	1209	1219	1255	1287	1294	1296	1274	1237			
40	1060	1065	1074	1099	1089	1098	1069	1054	1079	1088	1125	1159	1168	1170	1142	1107			
45	919	928	941	964	955	962	936	916	940	953	990	1024	1035	1036	1007	969			
50	782	788	806	825	821	825	802	778	803	818	856	884	900	897	873	829			
55	649	654	671	693	688	691	669	646	671	685	723	748	763	759	737	692			
60	524	528	542	562	558	564	539	521	545	558	593	617	629	626	603	564			
65	409	411	420	442	436	442	418	405	429	440	471	493	500	501	477	444			
70	303	304	308	326	321	325	306	297	320	329	355	373	379	381	359	333			
75	204	204	207	218	217	219	205	198	220	228	249	264	266	268	252	230			
80	117	117	117	126	125	125	115	109	131	139	153	165	165	167	155	140			
85	45.3	45.7	44.4	48.2	47.6	46.3	43.2	44.8	60.5	61.4	68.2	79.4	79.5	80.2	76.0	60.2			
90	22.8	21.4	20.3	19.0	14.7	18.7	20.8	22.8	30.0	29.4	30.1	24.6	16.2	23.3	27.7	24.2			
95	47.5	50.2	54.4	50.0	15.4	59.0	59.4	55.9	47.0	45.0	41.9	39.1	16.6	39.9	37.7	35.9			
100	92.8	92.9	94.5	95.4	15.9	104	105	101	95.5	92.5	85.3	80.5	16.4	83.1	82.6	84.2			
105	139	139	143	134	16.6	152	153	150	143	139	133	128	16.7	129	131	131			
110	187	188	195	168	17.5	200	203	200	192	189	184	177	17.4	175	179	179			
115	236	239	242	195	18.3	246	253	250	242	239	235	229	18.3	220	223	228			
120	286	290	258	209	19.2	292	302	300	293	290	286	283	19.1	252	266	270			
125	335	321	301	254	20.0	337	349	349	342	340	336	334	19.8	292	304	305			
130	376	347	319	286	20.8	380	393	395	390	387	384	380	20.3	328	324	347			
135	396	392	309	308	21.7	421	435	438	436	433	430	421	20.8	348	366	395			
140	426	406	300	318	22.7	454	472	477	476	475	473	455	21.7	354	384	424			
145	469	403	293	312	23.5	456	506	512	513	512	511	463	22.5	345	393	457			
150	492	362	300	243	24.3	360	538	541	545	546	541	385	23.4	269	393	453			
155	491	329	317	155	25.1	213	563	565	571	574	564	248	24.2	162	384	440			
160	485	295	294	74.9	25.8	86.8	525	586	585	585	531	115	25.0	77.4	350	413			
165	423	250	184	27.5	26.5	29.4	285	520	540	511	330	32.4	25.8	27.8	209	340			
170	140	82.5	45.3	27.2	27.0	28.4	57.8	185	302	238	90.1	28.6	26.7	26.8	59.8	124			
175	26.5	26.7	27.1	27.3	27.4	27.9	29.0	26.9	27.2	29.1	30.1	27.9	27.1	27.2	26.9	25.7			
180	25.9	26.2	27.3	27.5	27.4	27.6	27.2	25.5	25.9	26.2	27.3	27.5	27.4	27.6	27.2	25.5			

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