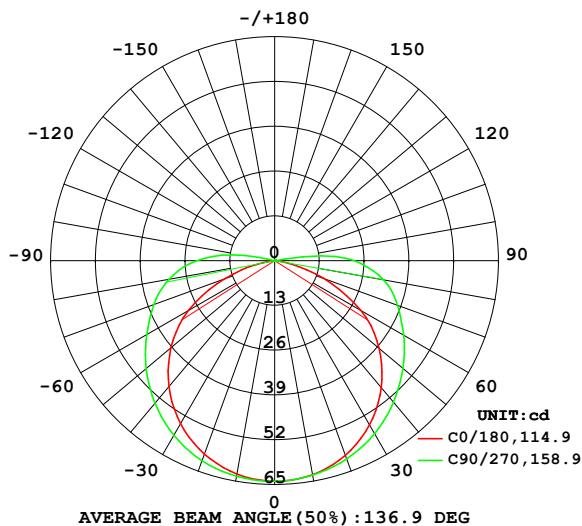


## LUMINAIRE PHOTOMETRIC TEST REPORT

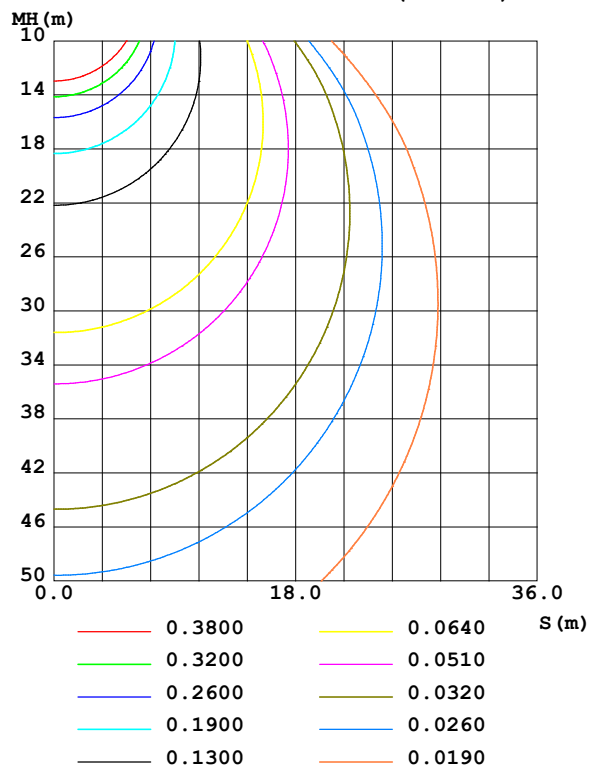
NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 64.57 lm/W
MODEL	G	I <sub>max</sub> (cd)	64.05	S/MH(C0/180)	1.27	
NOMINAL POWER(W)	4	LOR(%)	100.1	S/MH(C90/270)	1.36	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	245.47	η UP,DN(C0-180)	1.8,48.1	
NOMINAL FLUX(lm)	0.291991	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.1,48.1	
LAMPS INSIDE	840	η up(%)	3.9	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	24	η down(%)	96.2	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-08-18

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:6.040m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	63.11	63.13	63.21	62.98	62.92	63.25	63.55	63.37	0- 10	6.073	6.073	2.47,2.48
20	60.12	60.64	61.22	60.36	59.75	60.82	61.79	61.06	10- 20	17.56	23.64	9.63,9.64
30	55.06	56.62	58.02	56.25	54.66	56.81	58.54	57.10	20- 30	27.16	50.80	20.7,20.7
40	48.17	51.16	53.68	50.76	47.75	51.35	54.03	51.63	30- 40	33.83	84.62	34.5,34.5
50	39.56	44.57	48.62	44.21	39.28	44.67	48.73	44.90	40- 50	36.93	121.6	49.5,49.6
60	28.74	37.39	43.25	37.05	28.92	37.46	42.85	37.63	50- 60	36.38	157.9	64.3,64.4
70	15.14	30.33	38.01	30.05	15.33	30.05	37.35	30.22	60- 70	32.45	190.4	77.6,77.6
80	2.963	24.03	32.11	23.85	3.346	23.47	31.12	23.60	70- 80	26.48	216.9	88.4,88.4
90	0.0342	15.02	23.20	14.59	0.0395	14.87	22.62	14.88	80- 90	19.00	235.9	96.1,96.2
100	0.0342	0.1307	3.038	0.1247	0.0553	0.9673	8.605	0.7362	90-100	8.431	244.3	99.5,99.6
110	0.0526	0.1083	0.1495	0.1193	0.0737	0.1072	0.1572	0.0996	100-110	0.5716	244.9	99.8,99.8
120	0.0736	0.1092	0.1369	0.1139	0.0948	0.1208	0.1259	0.1154	110-120	0.1590	245.0	99.8,99.9
130	0.0999	0.1116	0.1367	0.1086	0.1237	0.1314	0.1390	0.1285	120-130	0.1114	245.1	99.9,99.9
140	0.1157	0.1208	0.1366	0.1258	0.1447	0.1471	0.1443	0.1468	130-140	0.0991	245.2	99.9,100
150	0.1368	0.1366	0.1364	0.1415	0.1631	0.1629	0.1600	0.1599	140-150	0.0896	245.3	99.9,100
160	0.1526	0.1576	0.1573	0.1573	0.1708	0.1786	0.1717	0.1737	150-160	0.0728	245.4	100,100
170	0.1683	0.1655	0.1705	0.1678	0.1747	0.1805	0.1746	0.1770	160-170	0.0474	245.4	100,100
180	0.1763	0.1760	0.1757	0.1783	0.1763	0.1813	0.1757	0.1783	170-180	0.0166	245.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 106.65 lm

%lum = 43.4%

%lamp = 43.5%

Conical surface Flux(130deg): 178.05 lm

%lum = 72.5%

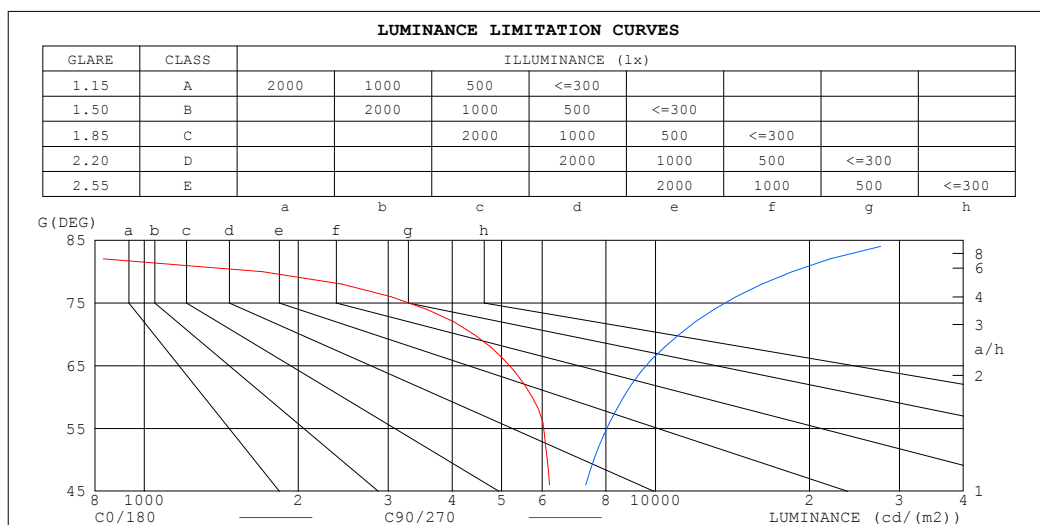
%lamp = 72.6%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
 Humidity:65.0%  
 Test Distance:6.040m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	71	33024
80	1703	18507
75	3794	13883
70	4416	11122
65	5506	9706
60	5735	8657
55	6211	8119
50	6140	7569
45	6336	7317

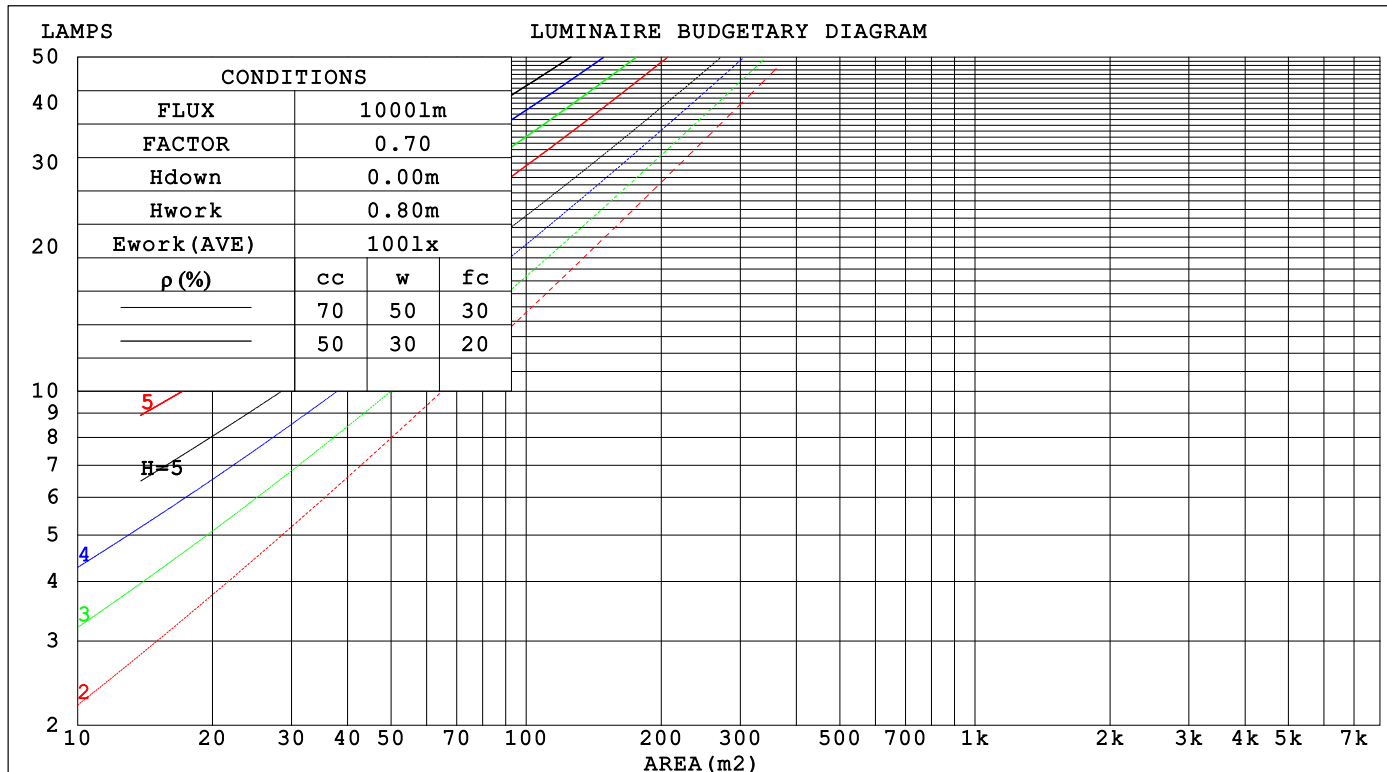
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 $\gamma$  Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 6.040m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	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	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.96
1.0	.99	.93	.88	.96	.91	.86	.91	.87	.83	.86	.83	.80	.82	.79	.76	.74
2.0	.84	.76	.69	.82	.74	.68	.78	.71	.66	.74	.68	.64	.70	.66	.62	.59
3.0	.73	.64	.56	.71	.62	.56	.67	.60	.54	.64	.58	.52	.61	.56	.51	.48
4.0	.64	.54	.47	.62	.53	.46	.59	.51	.45	.56	.50	.44	.54	.48	.43	.41
5.0	.57	.47	.40	.56	.46	.39	.53	.45	.39	.50	.43	.38	.48	.42	.37	.35
6.0	.51	.41	.34	.50	.41	.34	.48	.39	.34	.45	.38	.33	.43	.37	.32	.30
7.0	.46	.37	.30	.45	.36	.30	.43	.35	.29	.41	.34	.29	.40	.33	.28	.26
8.0	.42	.33	.27	.41	.32	.27	.39	.32	.26	.38	.31	.26	.36	.30	.25	.23
9.0	.38	.30	.24	.38	.29	.24	.36	.29	.23	.35	.28	.23	.33	.27	.23	.21
10.0	.35	.27	.22	.35	.27	.21	.33	.26	.21	.32	.26	.21	.31	.25	.21	.19



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-08-18

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:6.040m [K=1.0000]  
Remarks:

### WEC AND CCEC

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	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	.395	.225	.071	.387	.220	.070	.371	.213	.068	.356	.205	.066	.342	.199	.064		
2.0	.343	.188	.058	.336	.185	.057	.321	.179	.056	.308	.173	.054	.296	.168	.053		
3.0	.305	.162	.049	.298	.160	.048	.286	.155	.047	.274	.150	.046	.263	.146	.045		
4.0	.275	.143	.042	.269	.141	.042	.257	.136	.041	.247	.133	.040	.237	.129	.039		
5.0	.249	.127	.037	.244	.125	.037	.234	.122	.036	.225	.118	.035	.216	.115	.035		
6.0	.228	.115	.033	.224	.113	.033	.215	.110	.032	.206	.107	.031	.198	.104	.031		
7.0	.211	.104	.030	.206	.103	.029	.198	.100	.029	.190	.098	.028	.183	.095	.028		
8.0	.195	.095	.027	.191	.094	.027	.184	.092	.026	.177	.090	.026	.170	.088	.025		
9.0	.182	.088	.025	.178	.087	.024	.172	.085	.024	.165	.083	.024	.159	.081	.023		
10.0	.170	.082	.023	.167	.081	.022	.161	.079	.022	.155	.077	.022	.150	.075	.022		

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	.220	.220	.220	.188	.188	.188	.129	.129	.129	.074	.074	.074	.024	.024	.024		
1.0	.216	.186	.158	.185	.159	.136	.127	.110	.094	.073	.063	.055	.023	.020	.018		
2.0	.209	.162	.122	.179	.139	.106	.123	.096	.074	.071	.056	.043	.023	.018	.014		
3.0	.202	.145	.100	.173	.125	.087	.119	.087	.061	.069	.051	.036	.022	.016	.012		
4.0	.194	.132	.085	.166	.114	.074	.114	.080	.052	.066	.047	.031	.021	.015	.010		
5.0	.186	.122	.075	.160	.106	.065	.110	.074	.046	.064	.043	.027	.021	.014	.009		
6.0	.178	.114	.068	.153	.099	.059	.106	.069	.042	.061	.041	.025	.020	.013	.008		
7.0	.171	.107	.062	.147	.093	.054	.101	.065	.039	.059	.038	.023	.019	.013	.008		
8.0	.164	.101	.058	.141	.088	.051	.098	.062	.036	.057	.036	.022	.018	.012	.007		
9.0	.157	.096	.055	.136	.084	.048	.094	.059	.034	.055	.035	.020	.018	.011	.007		
10.0	.151	.092	.053	.130	.080	.046	.090	.056	.033	.053	.033	.020	.017	.011	.006		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-08-18

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:6.040m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

NAME: LY840-CSPRGB-W24-12W-10MM					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.:					SUR.: 0.010*1					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					23.5	25.0	23.8	25.3	25.6	25.1	26.6	25.4	26.9	27.2
3H					24.9	26.4	25.2	26.7	27.0	27.7	29.2	28.1	29.5	29.9
4H					25.4	26.8	25.7	27.1	27.5	29.2	30.6	29.6	31.0	31.3
6H					25.6	26.9	26.0	27.3	27.6	30.8	32.2	31.2	32.5	32.9
8H					25.6	26.9	26.0	27.2	27.6	31.7	33.0	32.1	33.4	33.8
12H					25.5	26.8	26.0	27.2	27.6	32.7	33.9	33.1	34.3	34.7
4H 2H					24.5	25.9	24.9	26.3	26.6	25.7	27.1	26.1	27.4	27.8
3H					26.3	27.5	26.7	27.9	28.3	28.6	29.9	29.0	30.3	30.7
4H					27.0	28.2	27.5	28.6	29.0	30.3	31.5	30.8	31.9	32.3
6H					27.5	28.6	28.0	29.0	29.4	32.2	33.2	32.6	33.6	34.1
8H					27.6	28.6	28.1	29.1	29.5	33.2	34.1	33.6	34.6	35.1
12H					27.7	28.6	28.2	29.0	29.5	34.3	35.2	34.7	35.6	36.1
8H 4H					28.1	29.1	28.6	29.5	30.0	30.7	31.7	31.2	32.1	32.6
6H					29.1	29.9	29.6	30.4	30.9	32.9	33.7	33.4	34.2	34.7
8H					29.5	30.2	30.0	30.7	31.3	34.1	34.8	34.6	35.3	35.9
12H					29.7	30.4	30.3	30.9	31.5	35.4	36.1	36.0	36.6	37.2
12H 4H					28.5	29.4	28.9	29.8	30.3	30.8	31.7	31.3	32.1	32.6
6H					29.7	30.4	30.2	30.9	31.5	33.0	33.8	33.5	34.3	34.8
8H					30.3	30.9	30.8	31.4	32.0	34.3	35.0	34.9	35.5	36.1
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 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 245.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.9)  
Area: 0.01 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-08-18

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:6.040m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

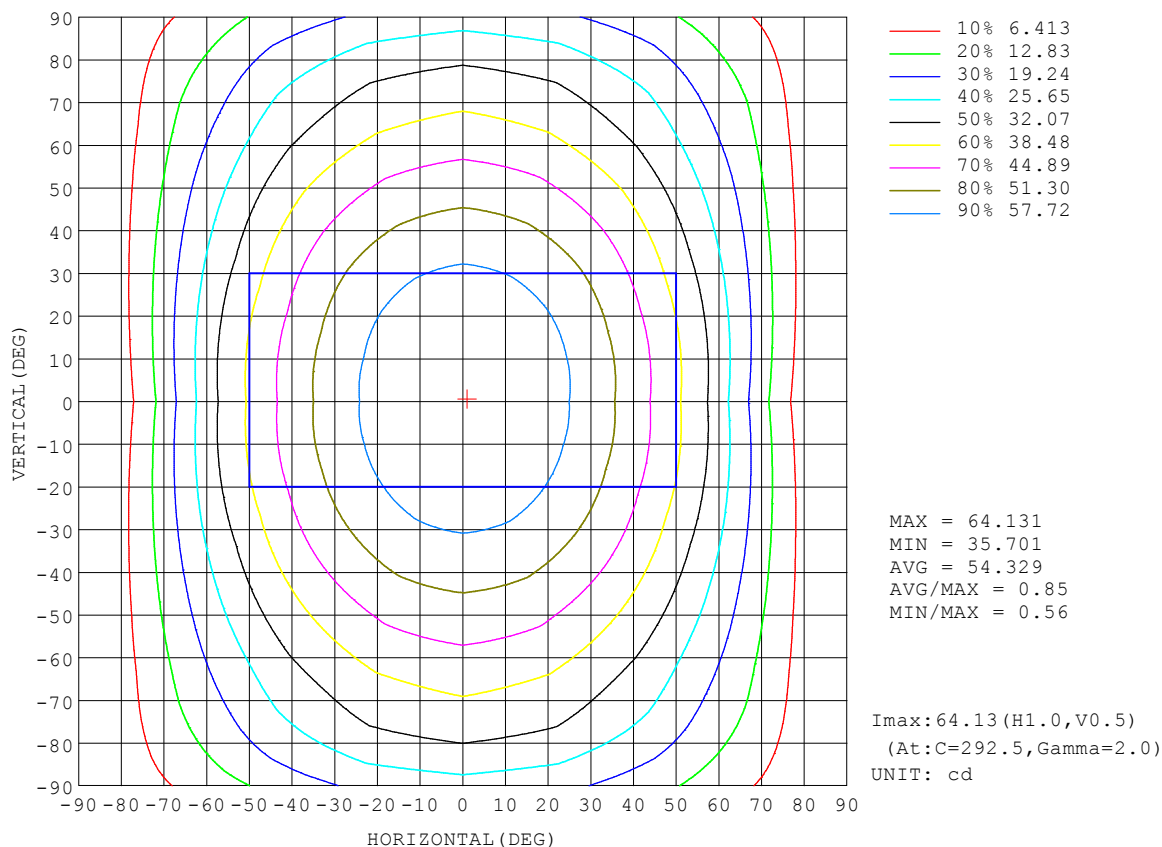
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	39	32	51	39	32	50	39	32	25
0.80	61	48	40	60	48	40	58	47	40	32
1.00	69	57	48	68	56	48	65	57	47	39
1.25	76	64	56	74	63	55	71	61	54	46
1.50	81	69	61	79	68	61	76	66	59	51
2.00	88	78	70	86	76	69	82	74	67	58
2.50	93	83	75	90	81	74	86	78	72	63
3.00	96	88	80	94	86	79	89	83	77	67
4.00	101	93	87	98	91	86	93	88	83	72
5.00	104	97	92	101	95	90	96	91	87	76
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: 25.3DEG  
Operators:  
Test Date: 2023-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 6.040m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



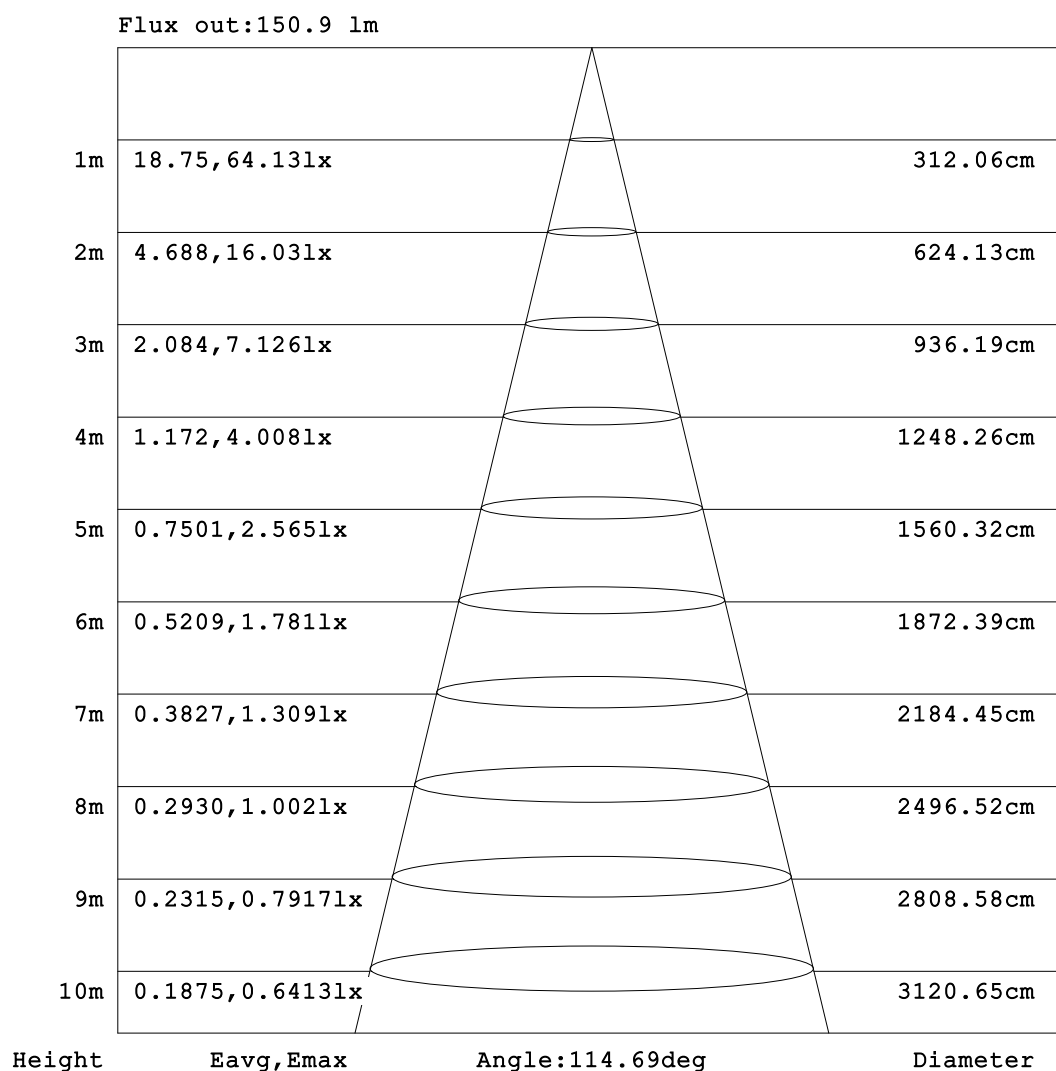
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 6.040m [K=1.0000]  
Remarks:



### AAI Figure

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



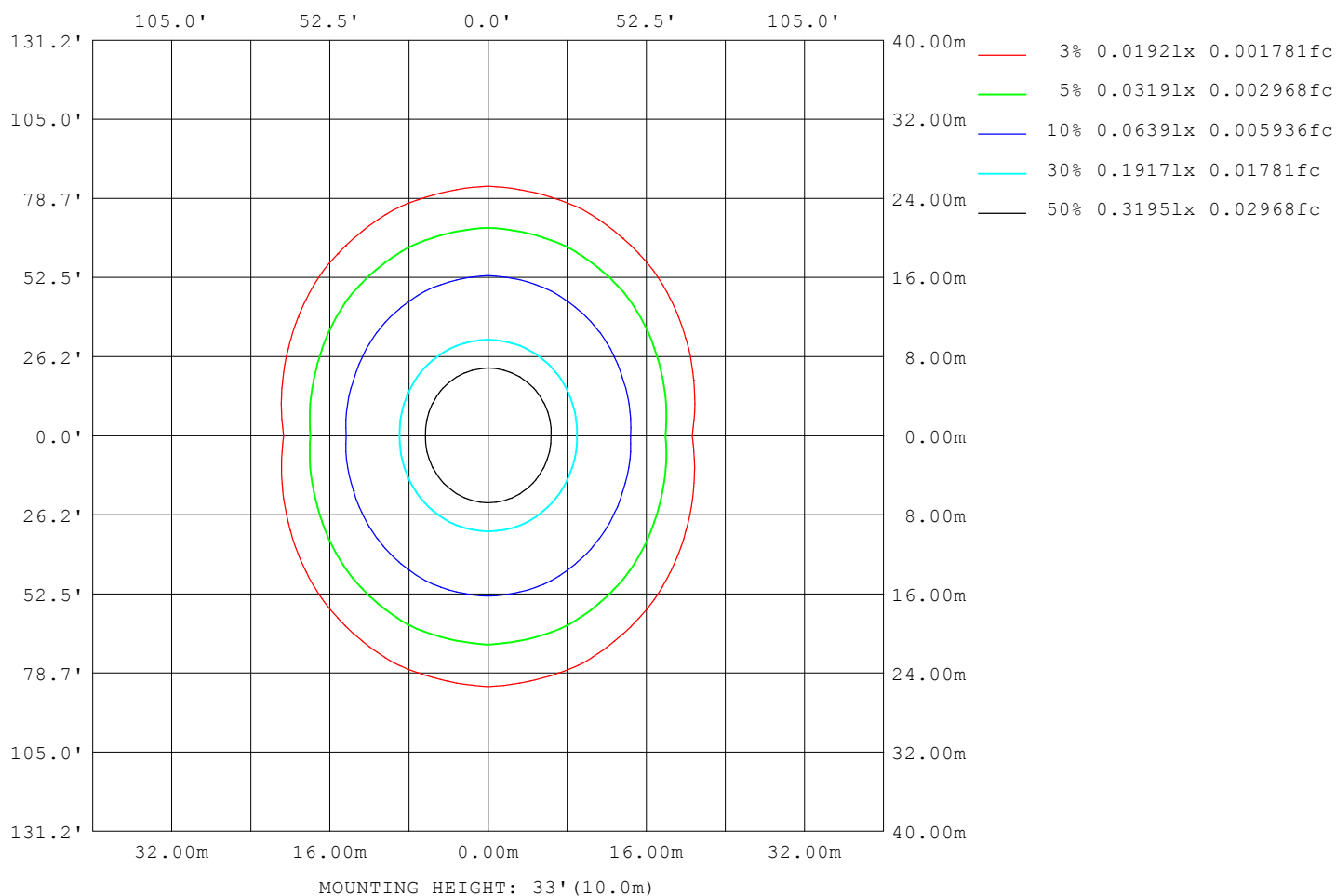
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-08-18

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:6.040m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 6.040m [K=1.0000]  
Remarks:

### LED Avg.L Report

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	Shielding Angle:

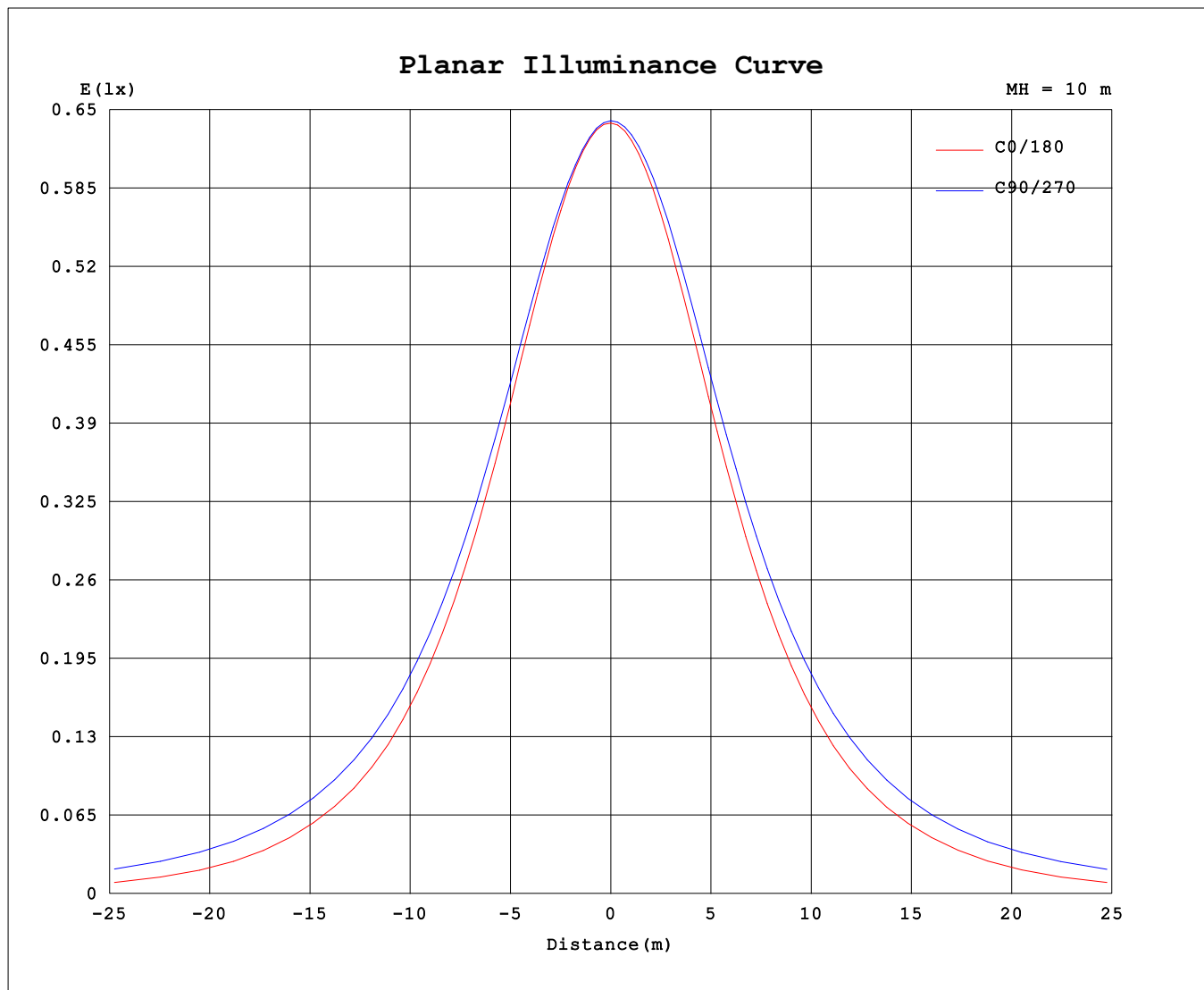
AvgL	cd/m2
L_0~180 (65) av	5215
L_0~180 (75) av	3371
L_0~180 (85) av	0
L_90~270 (65) av	9518
L_90~270 (75) av	13496
L_90~270 (85) av	31595
L_45 (65) av	7993
L_45 (75) av	10449
L_45 (85) av	22482

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-08-18

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:6.040m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 6.040m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LY840-CSPRGB-W24-12W-10MM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.010*1	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	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0			
5	63.9	63.9	63.9	63.9	63.9	63.9	63.8	63.8	63.8	63.9	63.9	64.0	64.0	64.0	64.0	64.0			
10	63.1	63.1	63.1	63.2	63.2	63.1	63.0	62.9	62.9	63.0	63.2	63.4	63.6	63.5	63.4	63.2			
15	62.2	62.2	62.3	62.5	62.6	62.5	62.1	61.9	61.9	62.1	62.5	62.8	63.0	62.9	62.6	62.3			
20	60.1	60.2	60.6	61.1	61.2	61.0	60.4	59.9	59.7	60.1	60.8	61.5	61.8	61.6	61.1	60.4			
25	58.3	58.5	59.2	59.9	60.1	59.7	58.9	58.1	57.9	58.4	59.4	60.2	60.6	60.4	59.7	58.8			
30	55.1	55.5	56.6	57.7	58.0	57.5	56.3	55.1	54.7	55.3	56.8	58.0	58.5	58.1	57.1	55.7			
35	52.5	53.2	54.6	56.0	56.4	55.8	54.2	52.7	52.1	53.0	54.8	56.2	56.9	56.4	55.1	53.4			
40	48.2	49.1	51.2	53.1	53.7	52.9	50.8	48.6	47.8	49.0	51.3	53.2	54.0	53.3	51.6	49.3			
45	44.9	46.1	48.6	51.0	51.7	50.7	48.2	45.7	44.5	46.0	48.8	51.0	52.0	51.1	49.0	46.3			
50	39.6	41.3	44.6	47.6	48.6	47.4	44.2	40.9	39.3	41.1	44.7	47.5	48.7	47.6	44.9	41.4			
55	35.7	37.8	41.7	45.3	46.5	45.1	41.3	37.4	35.4	37.6	41.8	45.1	46.4	45.2	42.0	37.9			
60	28.7	32.3	37.4	41.9	43.3	41.6	37.1	32.0	28.9	32.2	37.5	41.3	42.9	41.4	37.6	32.4			
65	23.3	28.5	34.6	39.5	41.0	39.2	34.3	28.3	23.5	28.4	34.5	38.8	40.5	38.9	34.6	28.6			
70	15.1	22.8	30.3	36.2	38.0	35.9	30.1	22.6	15.3	22.8	30.0	35.4	37.3	35.5	30.2	23.0			
75	9.84	19.3	27.9	34.0	35.9	33.8	27.6	19.2	10.1	19.3	27.5	33.1	35.1	33.2	27.7	19.5			
80	2.96	14.5	24.0	30.2	32.1	30.0	23.8	14.5	3.35	14.3	23.5	29.1	31.1	29.1	23.6	14.6			
85	0.06	11.8	20.7	26.8	28.8	26.7	20.6	11.8	0.10	11.4	20.2	25.9	28.0	25.9	20.3	11.6			
90	0.03	6.63	15.0	21.2	23.2	21.2	14.6	6.58	0.04	6.43	14.9	20.5	22.6	20.5	14.9	6.52			
95	0.03	0.53	8.95	15.7	17.8	16.0	9.26	1.22	0.04	2.22	10.6	16.0	18.1	15.9	10.4	1.94			
100	0.03	0.07	0.13	1.38	3.04	1.84	0.12	0.07	0.06	0.07	0.97	6.34	8.60	5.96	0.74	0.07			
105	0.03	0.07	0.11	1.16	0.17	1.50	0.12	0.07	0.06	0.07	0.10	0.38	1.25	0.35	0.12	0.07			
110	0.05	0.09	0.11	0.81	0.15	0.99	0.12	0.08	0.07	0.07	0.11	0.13	0.16	0.13	0.10	0.07			
115	0.06	0.09	0.11	0.59	0.14	0.64	0.12	0.09	0.09	0.07	0.11	0.12	0.14	0.12	0.10	0.07			
120	0.07	0.10	0.11	0.25	0.14	0.27	0.11	0.10	0.09	0.08	0.12	0.12	0.13	0.12	0.12	0.08			
125	0.08	0.11	0.11	0.20	0.14	0.20	0.11	0.12	0.11	0.08	0.12	0.12	0.13	0.12	0.12	0.09			
130	0.10	0.12	0.11	0.14	0.14	0.17	0.11	0.13	0.12	0.10	0.13	0.12	0.14	0.12	0.13	0.10			
135	0.11	0.13	0.11	0.14	0.14	0.14	0.11	0.13	0.13	0.10	0.14	0.12	0.14	0.12	0.13	0.10			
140	0.12	0.15	0.12	0.15	0.14	0.15	0.13	0.15	0.14	0.12	0.15	0.13	0.14	0.13	0.15	0.12			
145	0.13	0.16	0.13	0.15	0.14	0.16	0.13	0.16	0.15	0.13	0.16	0.13	0.15	0.13	0.15	0.13			
150	0.14	0.16	0.14	0.16	0.14	0.17	0.14	0.17	0.16	0.14	0.16	0.14	0.16	0.13	0.16	0.13			
155	0.14	0.17	0.14	0.17	0.14	0.17	0.15	0.17	0.17	0.15	0.17	0.14	0.17	0.14	0.17	0.14			
160	0.15	0.18	0.16	0.18	0.16	0.17	0.16	0.17	0.17	0.16	0.18	0.15	0.17	0.15	0.17	0.15			
165	0.16	0.18	0.16	0.18	0.16	0.17	0.16	0.18	0.17	0.16	0.18	0.16	0.17	0.15	0.17	0.16			
170	0.17	0.18	0.17	0.18	0.17	0.17	0.17	0.18	0.17	0.17	0.18	0.17	0.17	0.16	0.18	0.17			
175	0.17	0.18	0.17	0.18	0.17	0.18	0.17	0.18	0.18	0.17	0.18	0.17	0.18	0.17	0.18	0.17			
180	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.18			

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