

Luminaire Property

Luminaire:

Report NO.: WBD-1778A-12W

Test NO.:

Lamp:

Sum Lumens: 278.3 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 222.7 V

Current: 0.104 A

Power: 13.6 W

Power Factor: 0.588

Ballast Type:

Width: 200mm

Height: mm

Remark:

Photometric Results

Lumens: 278.30 lm

Efficiency: 20.3139 lm/W

Central Intensity: 210.611cd

Maximum Intensity: 211.306cd

Angle of maximum intensity: C:135.0 G:1.0

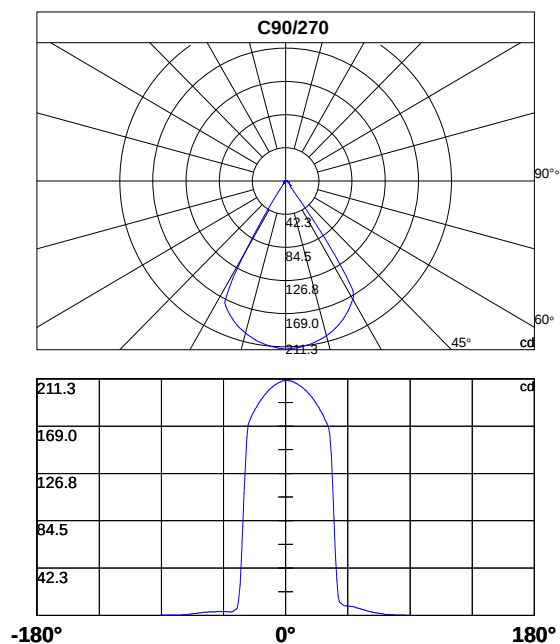
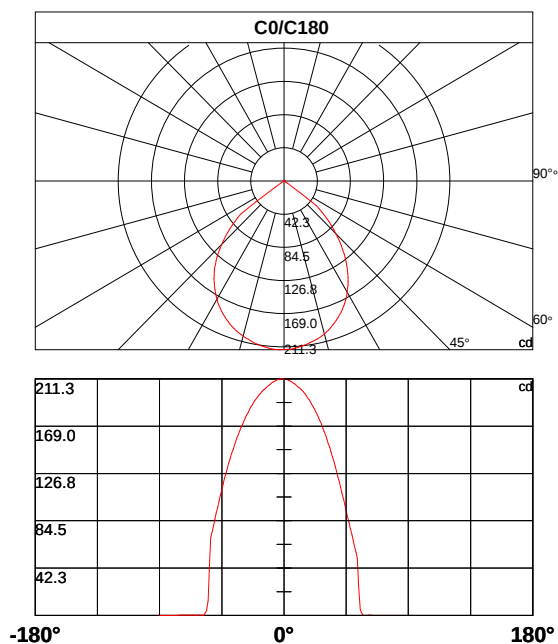
Half Peak Side Angle(50%): Left: -43.7 Right:45.3

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -55.2 Right:53.8



Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	210.6	211.0	210.7	210.2	209.6	208.9	208.1	207.1	206.4	205.2
45.0	210.6	209.9	209.6	209.5	209.2	208.7	208.3	207.7	207.0	206.3
90.0	210.6	209.9	209.6	209.5	209.2	208.7	208.3	207.7	207.0	206.3
C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	204.2	203.3	202.2	200.9	199.6	198.1	196.4	194.7	192.8	190.8
45.0	205.3	204.5	203.7	202.7	201.5	200.5	199.1	197.9	196.3	194.9
90.0	205.3	204.5	203.7	202.7	201.5	200.5	199.1	197.9	196.3	194.9
C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	188.7	186.4	184.2	181.7	179.1	176.4	173.6	170.9	167.5	164.3
45.0	193.1	191.4	189.5	187.5	185.5	183.2	181.0	178.8	176.2	173.6
90.0	193.1	191.4	189.5	187.5	185.5	183.2	181.0	178.8	176.2	173.6
C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	161.0	157.3	153.6	149.9	145.9	141.7	137.5	133.2	128.5	123.8
45.0	170.9	168.1	161.3	142.4	115.4	86.2	56.5	31.4	17.2	12.0
90.0	170.9	168.1	161.3	142.4	115.4	86.2	56.5	31.4	17.2	12.0
C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	119.1	114.1	109.0	103.9	98.7	93.5	88.3	83.1	77.7	72.4
45.0	10.9	9.9	8.9	8.4	8.4	8.3	8.3	8.1	7.9	7.7
90.0	10.9	9.9	8.9	8.4	8.4	8.3	8.3	8.1	7.9	7.7
C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	67.1	61.8	56.4	51.0	26.2	5.5	2.1	0.4	0.0	0.0
45.0	7.4	6.9	6.6	6.1	5.8	5.4	5.0	4.7	4.3	4.0
90.0	7.4	6.9	6.6	6.1	5.8	5.4	5.0	4.7	4.3	4.0
C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	3.7	3.4	3.2	2.8	2.6	2.3	2.1	1.8	1.6	1.5
90.0	3.7	3.4	3.2	2.8	2.6	2.3	2.1	1.8	1.6	1.5
C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4
90.0	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4

Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0
90.0	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0

C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0

Zonal Flux Distribution

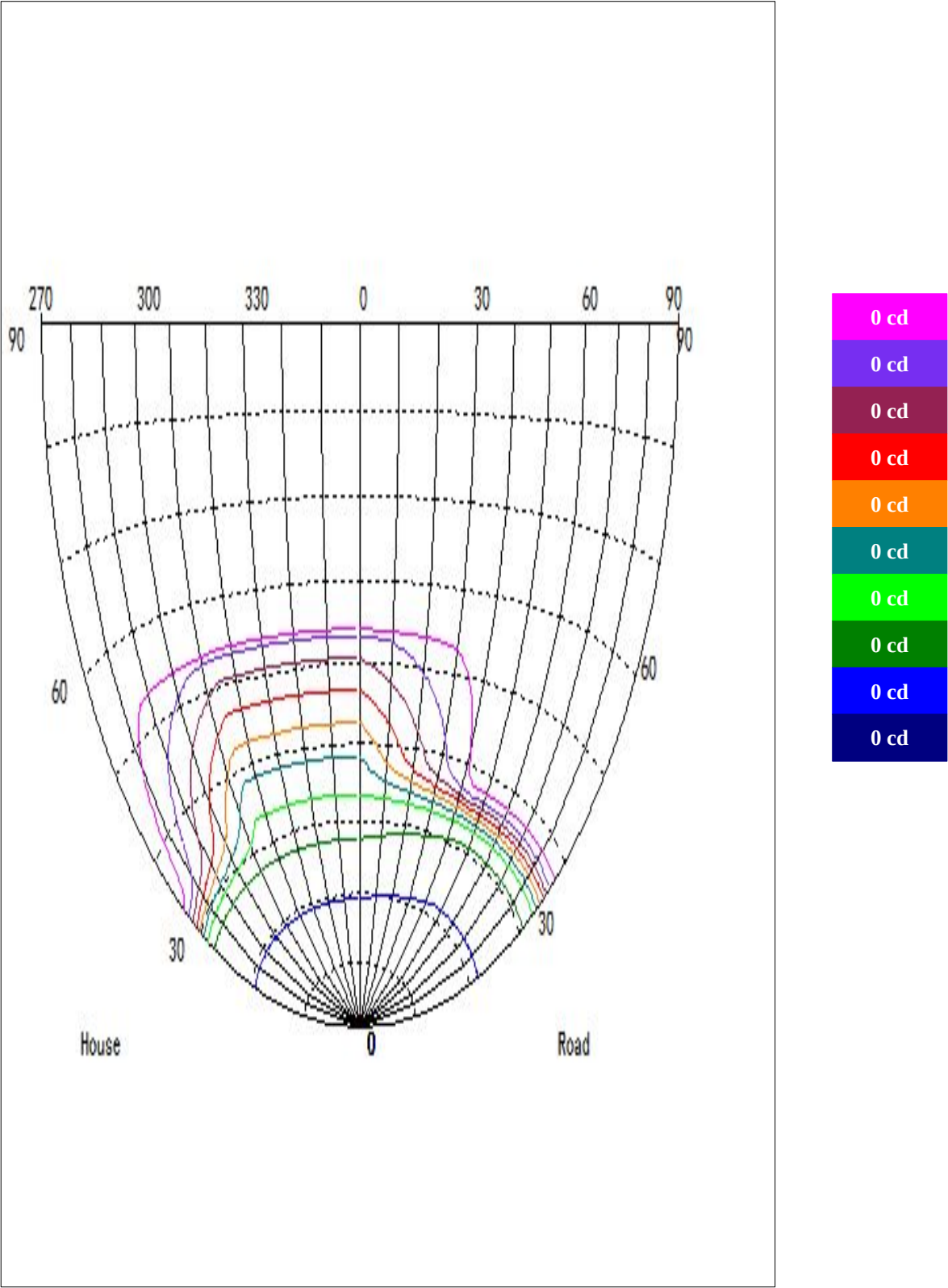
Gamma [°]	lmean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	210.61	0.00	0.00	0.00	0.00
1	210.44	0.05	0.05	0.02	0.02
2	210.16	0.15	0.20	0.05	0.07
3	209.84	0.25	0.45	0.09	0.16
4	209.42	0.35	0.80	0.13	0.29
5	208.80	0.45	1.25	0.16	0.45
6	208.20	0.55	1.80	0.20	0.65
7	207.40	0.65	2.45	0.23	0.88
8	206.73	0.74	3.19	0.27	1.15
9	205.71	0.84	4.02	0.30	1.45
10	204.75	0.93	4.95	0.33	1.78
11	203.92	1.02	5.98	0.37	2.15
12	202.94	1.11	7.09	0.40	2.55
13	201.79	1.20	8.29	0.43	2.98
14	200.58	1.29	9.58	0.46	3.44
15	199.30	1.38	10.96	0.49	3.94
16	197.77	1.46	12.42	0.52	4.46
17	196.30	1.54	13.96	0.55	5.02
18	194.57	1.62	15.58	0.58	5.60
19	192.83	1.69	17.27	0.61	6.21
20	190.89	1.77	19.03	0.63	6.84
21	188.89	1.83	20.87	0.66	7.50
22	186.86	1.90	22.77	0.68	8.18
23	184.60	1.96	24.73	0.71	8.89
24	182.33	2.02	26.76	0.73	9.61
25	179.81	2.08	28.83	0.75	10.36
26	177.34	2.13	30.96	0.76	11.13
27	174.81	2.18	33.14	0.78	11.91
28	171.89	2.22	35.36	0.80	12.71
29	168.97	2.26	37.62	0.81	13.52
30	165.93	2.29	39.91	0.82	14.34
31	162.67	2.32	42.23	0.83	15.18
32	157.45	2.33	44.56	0.84	16.01
33	146.18	2.24	46.80	0.80	16.81
34	130.65	2.02	48.82	0.73	17.54
35	113.97	1.73	50.55	0.62	18.16
36	96.98	1.41	51.96	0.51	18.67
37	82.26	1.09	53.05	0.39	19.06
38	72.87	0.85	53.90	0.31	19.37
39	67.92	0.73	54.62	0.26	19.63
40	65.03	0.68	55.30	0.24	19.87

Zonal Flux Distribution

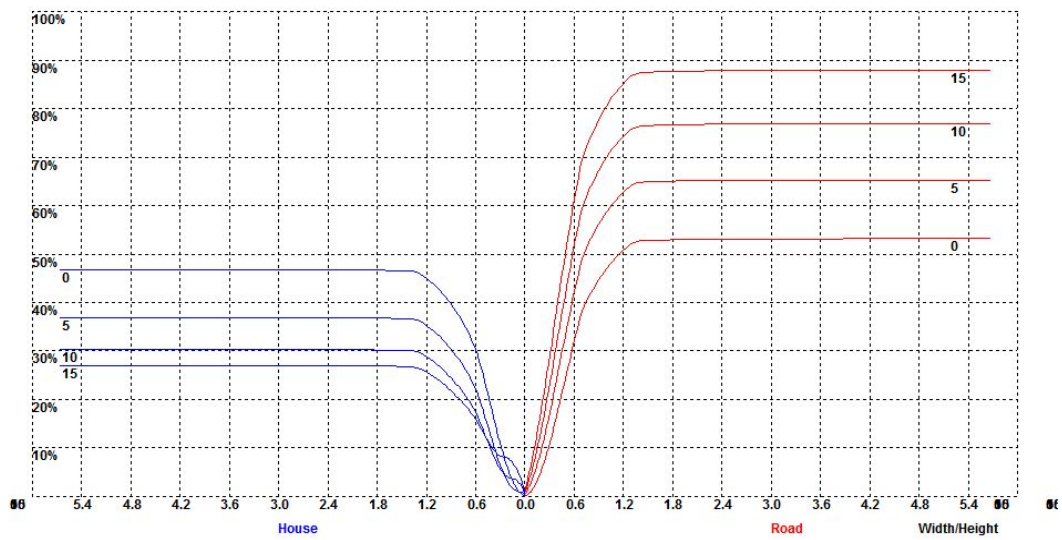
Gamma [°]	lmean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	62.00	0.66	55.96	0.24	20.11
42	58.96	0.63	56.60	0.23	20.34
43	56.15	0.61	57.21	0.22	20.56
44	53.57	0.60	57.81	0.21	20.77
45	50.93	0.58	58.39	0.21	20.98
46	48.27	0.57	58.95	0.20	21.18
47	45.58	0.55	59.50	0.20	21.38
48	42.81	0.53	60.03	0.19	21.57
49	40.04	0.50	60.53	0.18	21.75
50	37.27	0.48	61.02	0.17	21.92
51	34.34	0.45	61.47	0.16	22.09
52	31.46	0.43	61.90	0.15	22.24
53	28.58	0.40	62.29	0.14	22.38
54	16.00	0.31	62.60	0.11	22.49
55	5.43	0.18	62.78	0.07	22.56
56	3.54	0.11	62.89	0.04	22.60
57	2.54	0.09	62.98	0.03	22.63
58	2.15	0.08	63.06	0.03	22.66
59	2.00	0.07	63.14	0.03	22.69
60	1.85	0.07	63.20	0.02	22.71
61	1.72	0.06	63.27	0.02	22.73
62	1.60	0.06	63.33	0.02	22.75
63	1.43	0.05	63.38	0.02	22.77
64	1.30	0.05	63.43	0.02	22.79
65	1.15	0.05	63.48	0.02	22.81
66	1.04	0.04	63.52	0.01	22.82
67	0.92	0.04	63.55	0.01	22.84
68	0.81	0.03	63.59	0.01	22.85
69	0.74	0.03	63.62	0.01	22.86
70	0.62	0.03	63.64	0.01	22.87
71	0.55	0.02	63.67	0.01	22.88
72	0.47	0.02	63.69	0.01	22.88
73	0.40	0.02	63.70	0.01	22.89
74	0.36	0.01	63.72	0.01	22.90
75	0.32	0.01	63.73	0.00	22.90
76	0.26	0.01	63.74	0.00	22.90
77	0.23	0.01	63.75	0.00	22.91
78	0.21	0.01	63.76	0.00	22.91
79	0.19	0.01	63.77	0.00	22.91
80	0.15	0.01	63.78	0.00	22.92
81	0.15	0.01	63.78	0.00	22.92

Zonal Flux Distribution

[illegible]

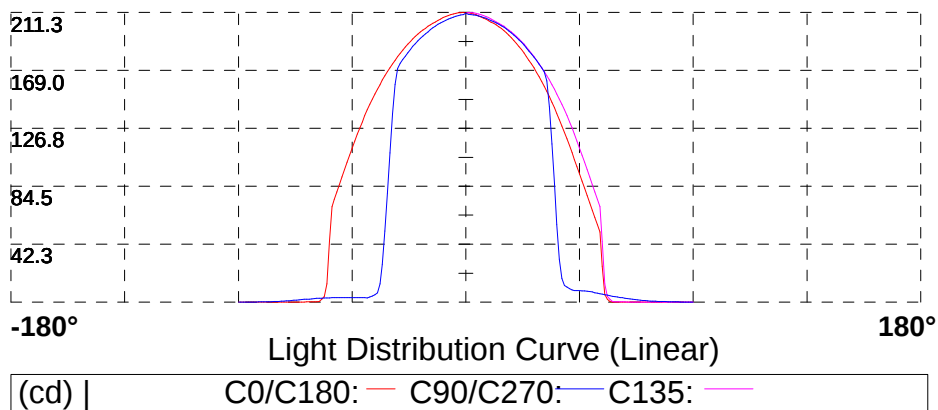
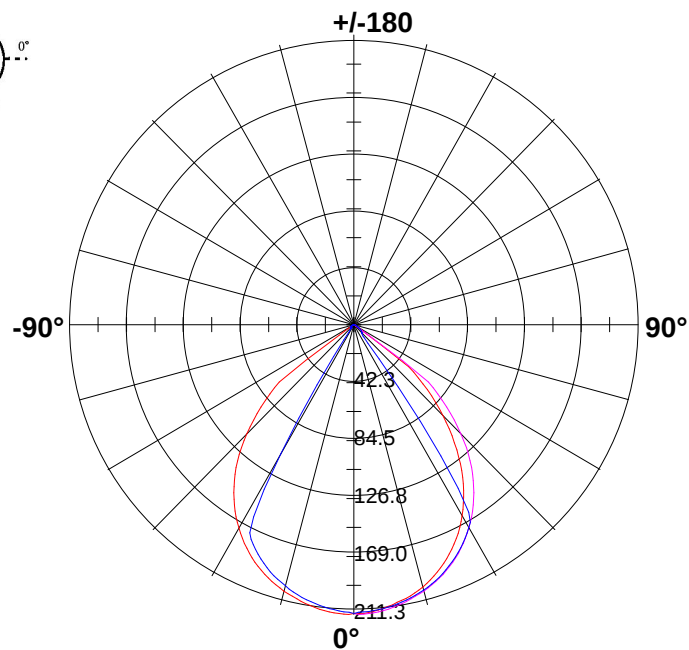
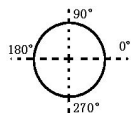


Coefficient Utilization Curve

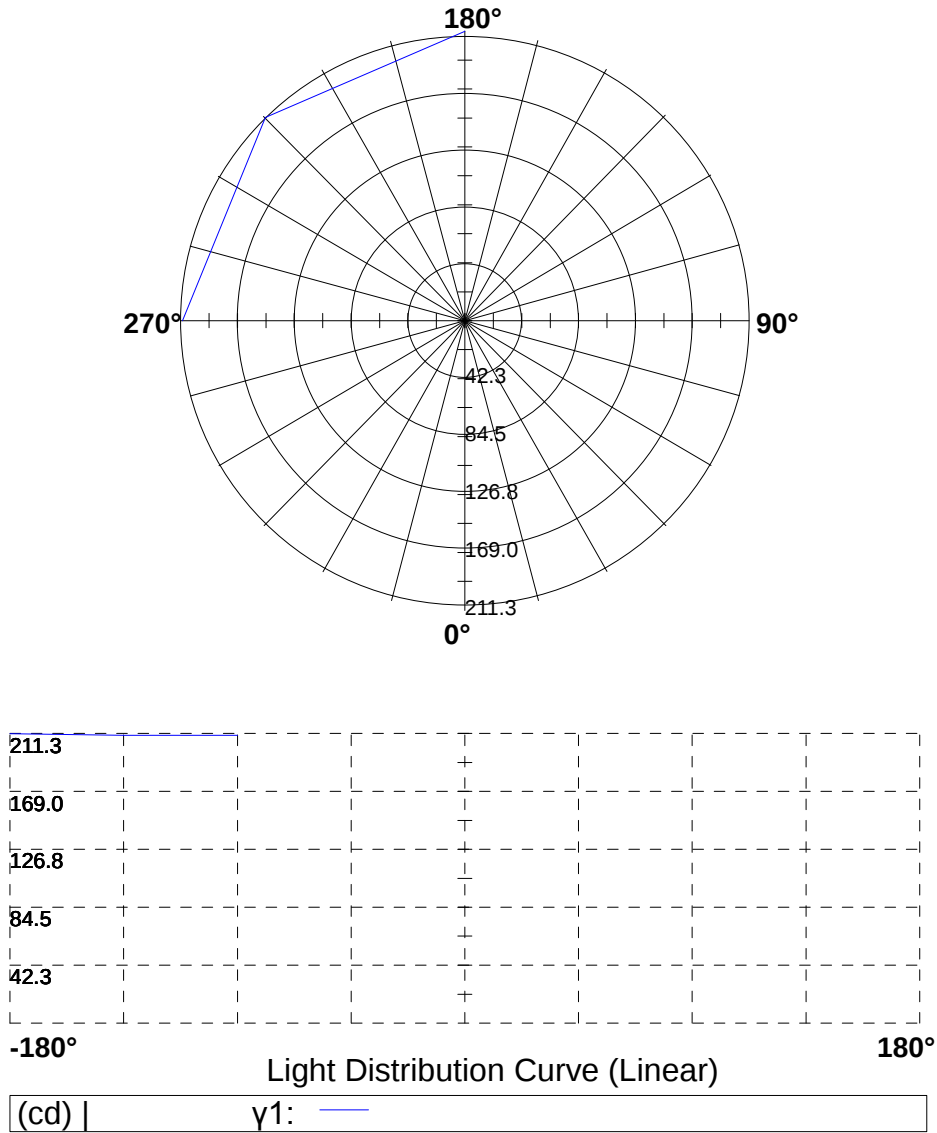


Light Distribution Curve [Unit: cd]

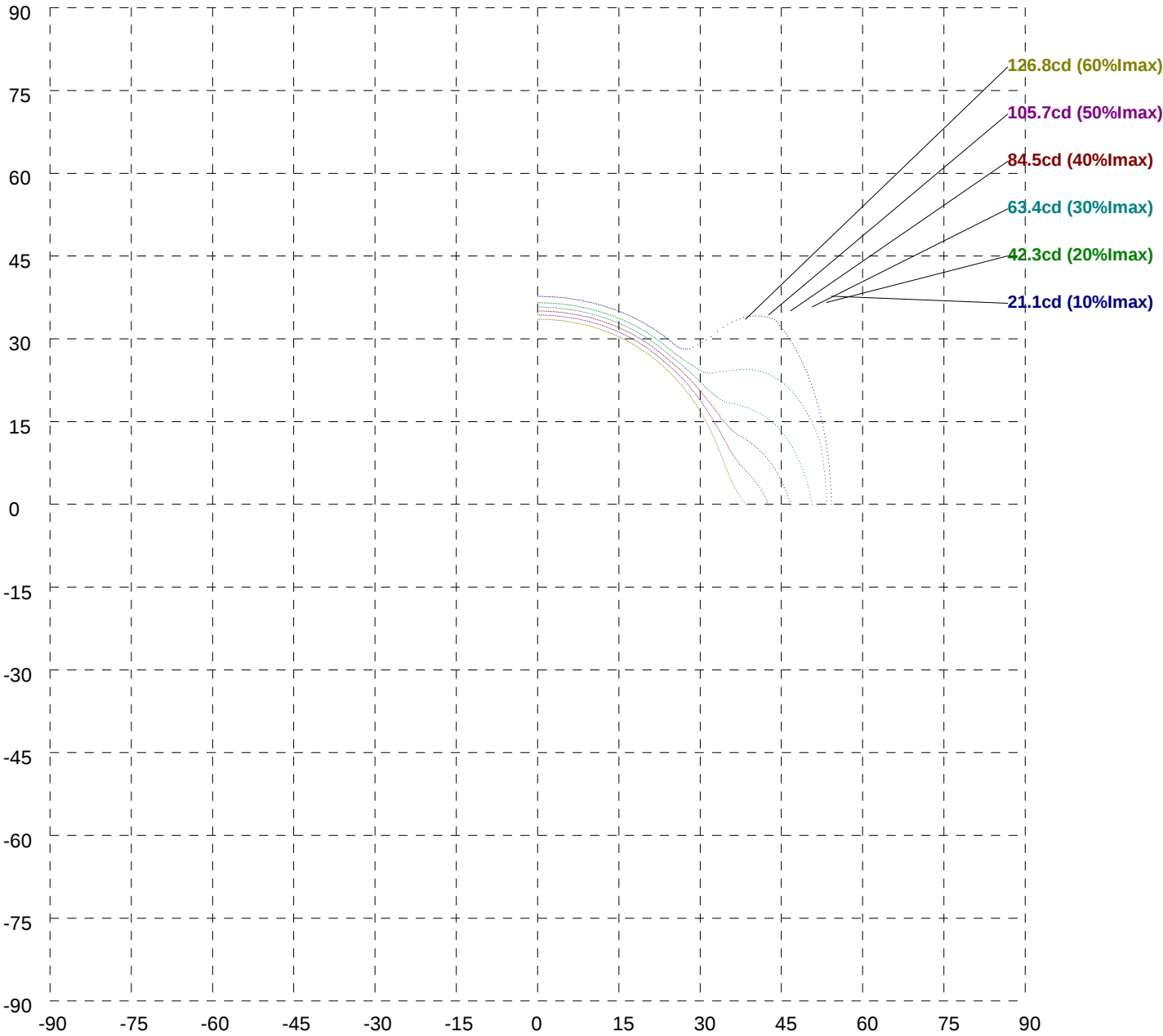
Luminaire



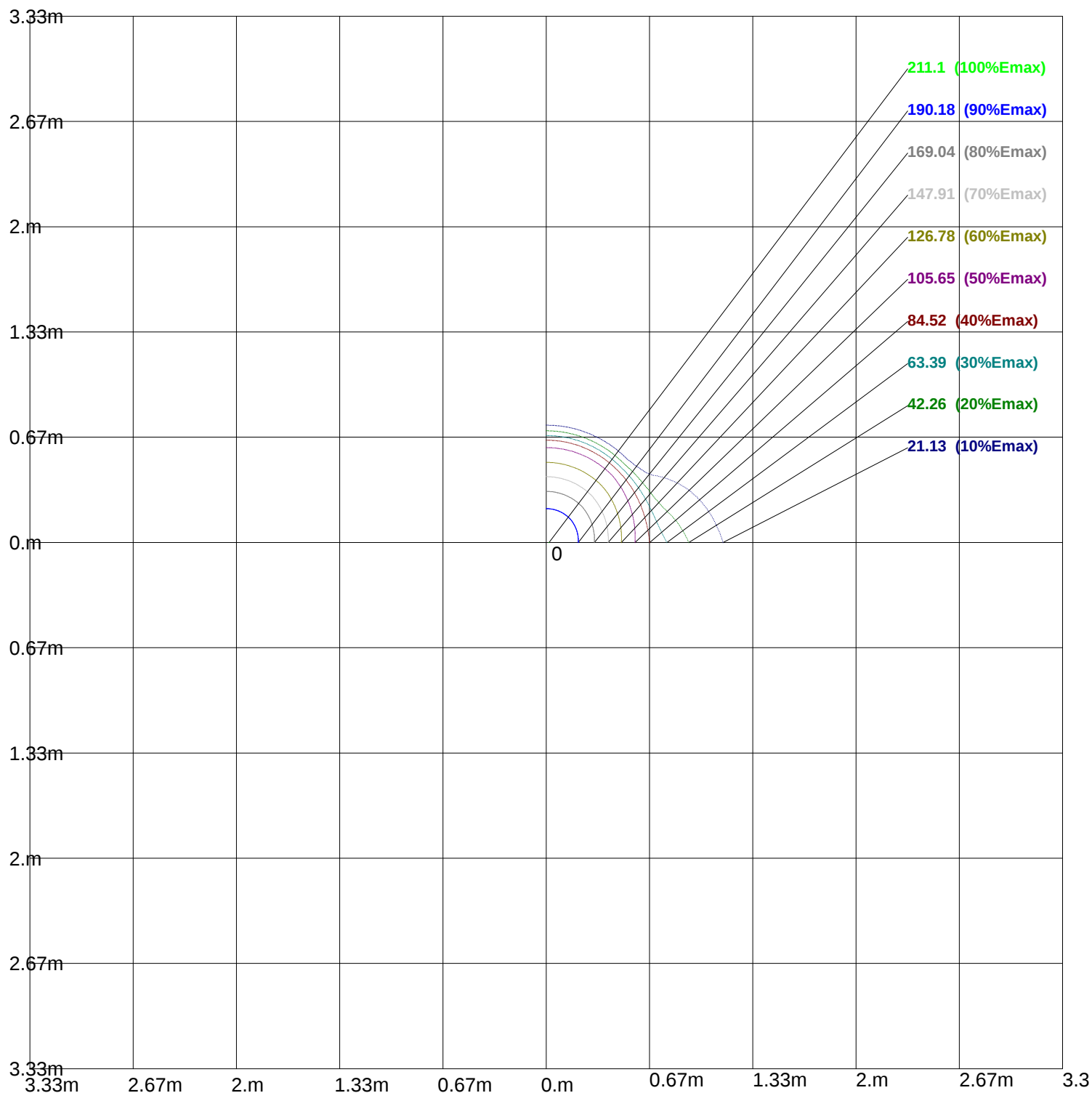
Max Plane Light Distribution Curve [Unit: cd]



等光强曲线 V-H [cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 211.31lx

Luminance Limiting Curve

Diameter: 200mm

Length: mm

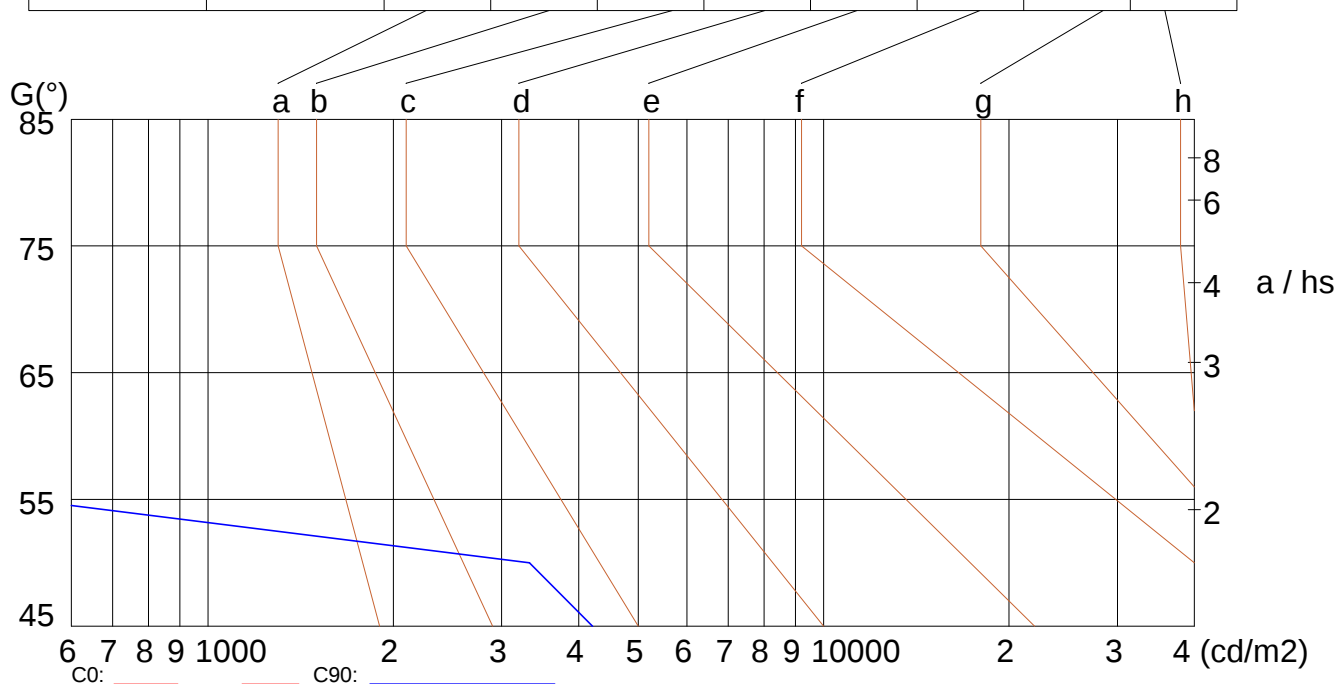
Width: 200mm

Height: mm

(cd/m²)

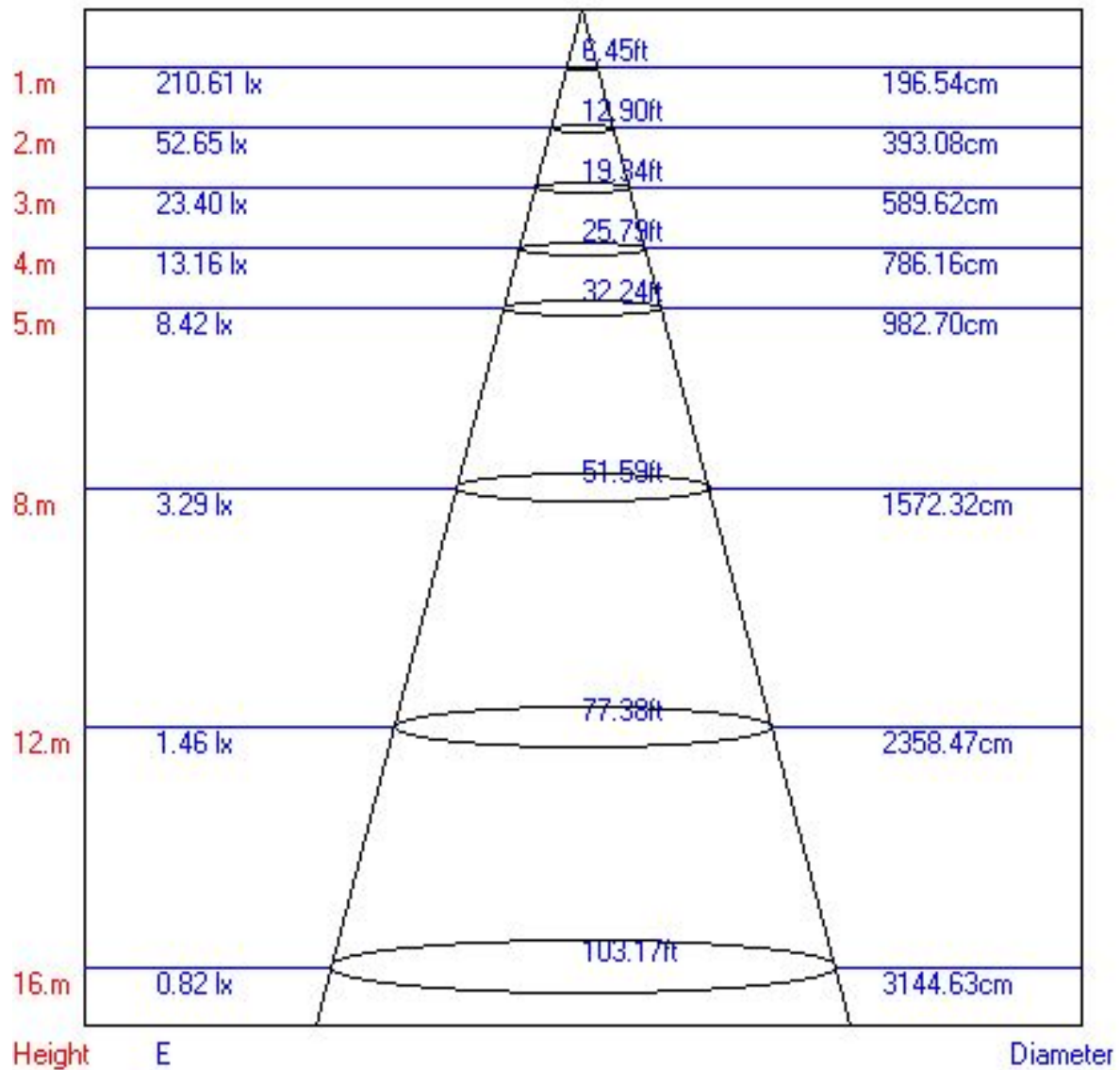
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	375	366	297						
C90	4213	3327	306						

Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)

Lux-Distance Curve



Beam Angle:89.00°

Utilization Coefficient Table

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	0.27	0.27	0.27	0.27	0.27	0.27	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.23	0.23
1	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.21	0.21	0.20
2	0.24	0.24	0.23	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.18
3	0.22	0.22	0.21	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.18	0.18	0.17
4	0.20	0.20	0.20	0.20	0.20	0.19	0.20	0.19	0.18	0.19	0.18	0.17	0.18	0.17	0.16	0.15
5	0.19	0.18	0.18	0.19	0.18	0.18	0.18	0.17	0.17	0.18	0.17	0.16	0.17	0.16	0.15	0.14
6	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.16	0.16	0.16	0.16	0.15	0.16	0.15	0.14	0.13
7	0.16	0.16	0.15	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.13	0.12
8	0.15	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.13	0.14	0.13	0.13	0.14	0.13	0.12	0.11
9	0.14	0.14	0.13	0.14	0.13	0.13	0.14	0.13	0.12	0.14	0.13	0.12	0.13	0.12	0.11	0.10
10	0.13	0.13	0.12	0.13	0.13	0.12	0.13	0.12	0.12	0.13	0.12	0.11	0.13	0.11	0.10	0.10

