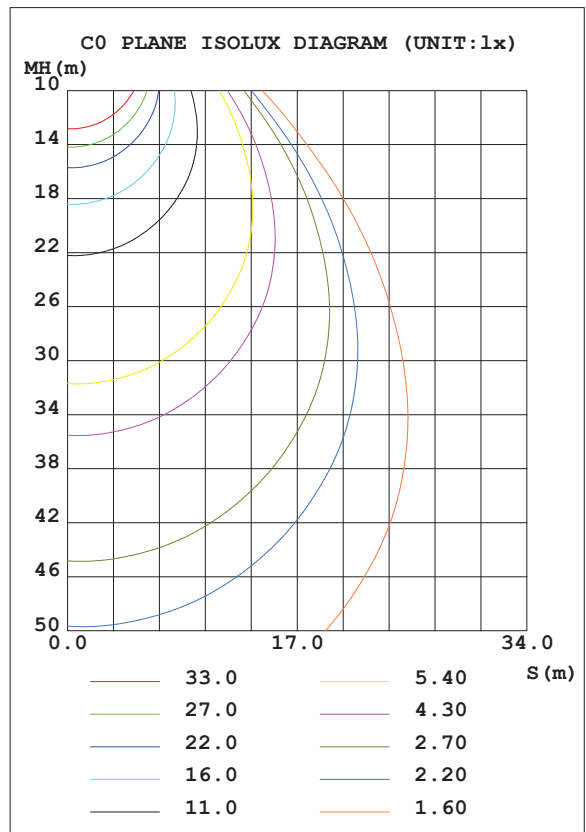
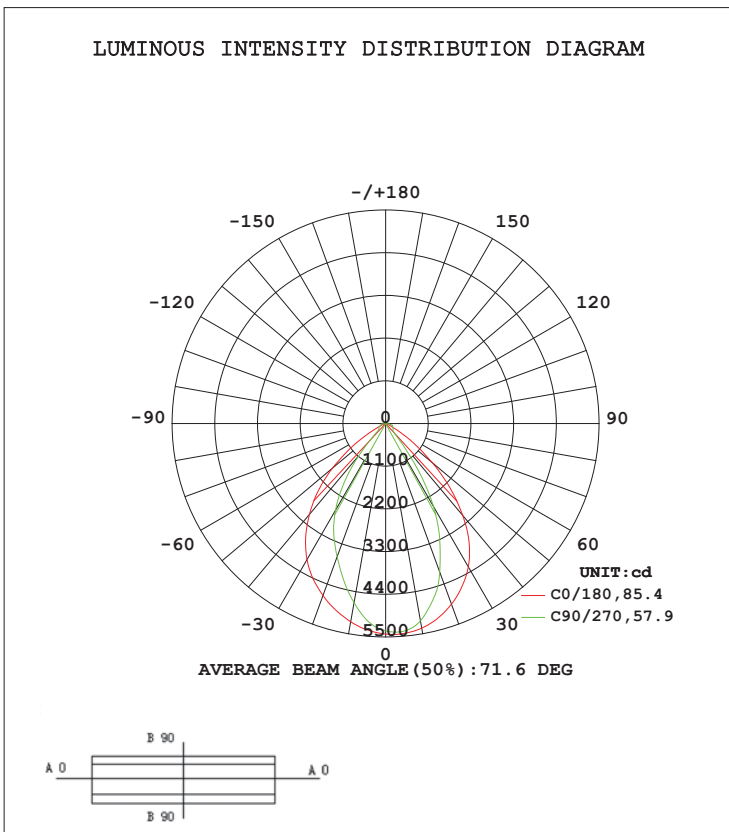


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.98 lm/W			
MODEL		I _{max} (cd)	5442	S/MH (C0/180)	1.13
NOMINAL POWER (W)	50.97	LOR (%)	100.0	S/MH (C90/270)	0.84
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	6696.4	η UP, DN (C0-180)	0.2, 50.1
NOMINAL FLUX (lm)	6696.42	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.2, 49.6
LAMPS INSIDE	1	η up (%)	0.4	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	99.6	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 08 January 2020

ν Range: 0 - 180DEG
 ν Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 9.480m [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	5354	5322	5165	5154	5184	4900	4688	4900	0- 10	498.0	498.0	7.44,7.44
20	4957	4613	4075	4461	4716	4113	3657	4078	10- 20	1330	1828	27.3,27.3
30	4264	3264	2466	3321	4053	3175	2585	3027	20- 30	1754	3582	53.5,53.5
40	3090	1504	554.5	1771	3054	1974	1046	1680	30- 40	1592	5173	77.3,77.3
50	1570	310.8	249.3	451.7	1787	643.9	240.6	430.6	40- 50	922.2	6096	91,91
60	343.5	90.92	225.5	92.61	476.5	129.7	192.8	101.4	50- 60	365.2	6461	96.5,96.5
70	57.16	49.82	180.7	56.94	73.68	71.49	137.4	63.88	60- 70	125.8	6587	98.4,98.4
80	23.04	17.64	86.12	23.02	30.91	34.53	117.4	28.18	70- 80	65.99	6653	99.3,99.3
90	0.7032	1.084	3.832	1.563	2.116	4.904	9.100	1.978	80- 90	18.03	6671	99.6,99.6
100	0.5435	0.3544	0.6445	0.3665	0.5080	0.3190	0.5602	0.2776	90-100	0.9872	6672	99.6,99.6
110	1.033	0.4190	0.4548	0.3544	1.059	0.4312	0.5907	0.4313	100-110	0.4905	6672	99.6,99.6
120	2.826	1.358	0.7260	1.075	2.879	1.213	0.8100	1.402	110-120	0.9675	6673	99.7,99.7
130	5.678	3.587	2.078	3.036	5.940	3.370	1.993	3.765	120-130	2.218	6675	99.7,99.7
140	9.011	6.743	4.850	6.011	9.527	6.790	5.028	7.266	130-140	4.001	6679	99.7,99.7
150	12.33	10.26	8.349	9.581	13.02	10.68	9.206	11.06	140-150	5.414	6685	99.8,99.8
160	15.05	13.67	12.46	13.26	15.78	14.49	13.63	14.50	150-160	5.658	6690	99.9,99.9
170	16.87	16.32	15.88	16.11	17.44	17.12	16.84	16.81	160-170	4.346	6695	100,100
180	17.86	17.77	17.63	17.52	17.96	17.83	17.73	17.60	170-180	1.637	6696	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5722.4 lm

%lum = 85.5%
%lamp = 85.5%

Conical surface Flux(120deg): 6460.9 lm

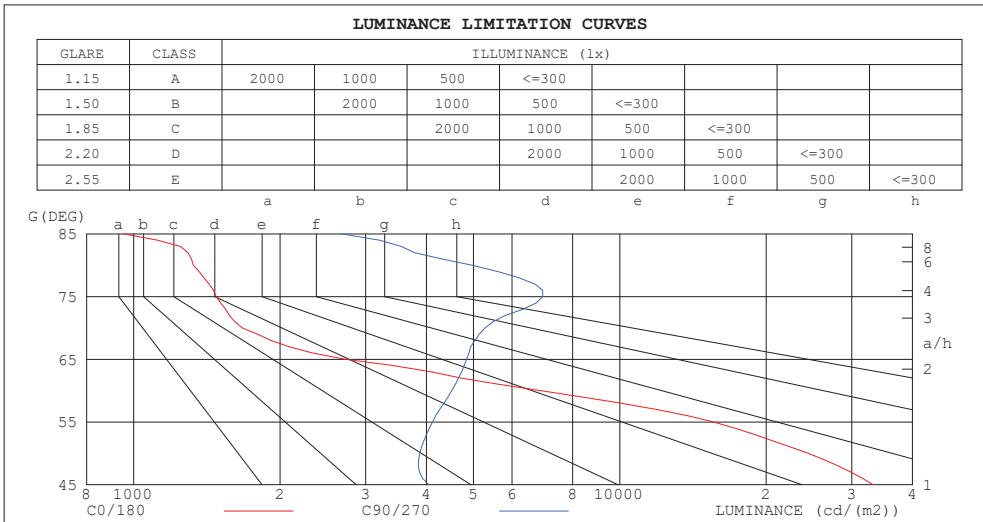
%lum = 96.5%
%lamp = 96.5%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:08 January 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	953	2672
80	1327	4960
75	1477	6939
70	1671	5284
65	2722	4840
60	6869	4511
55	15593	4118
50	24421	3879
45	33222	4046

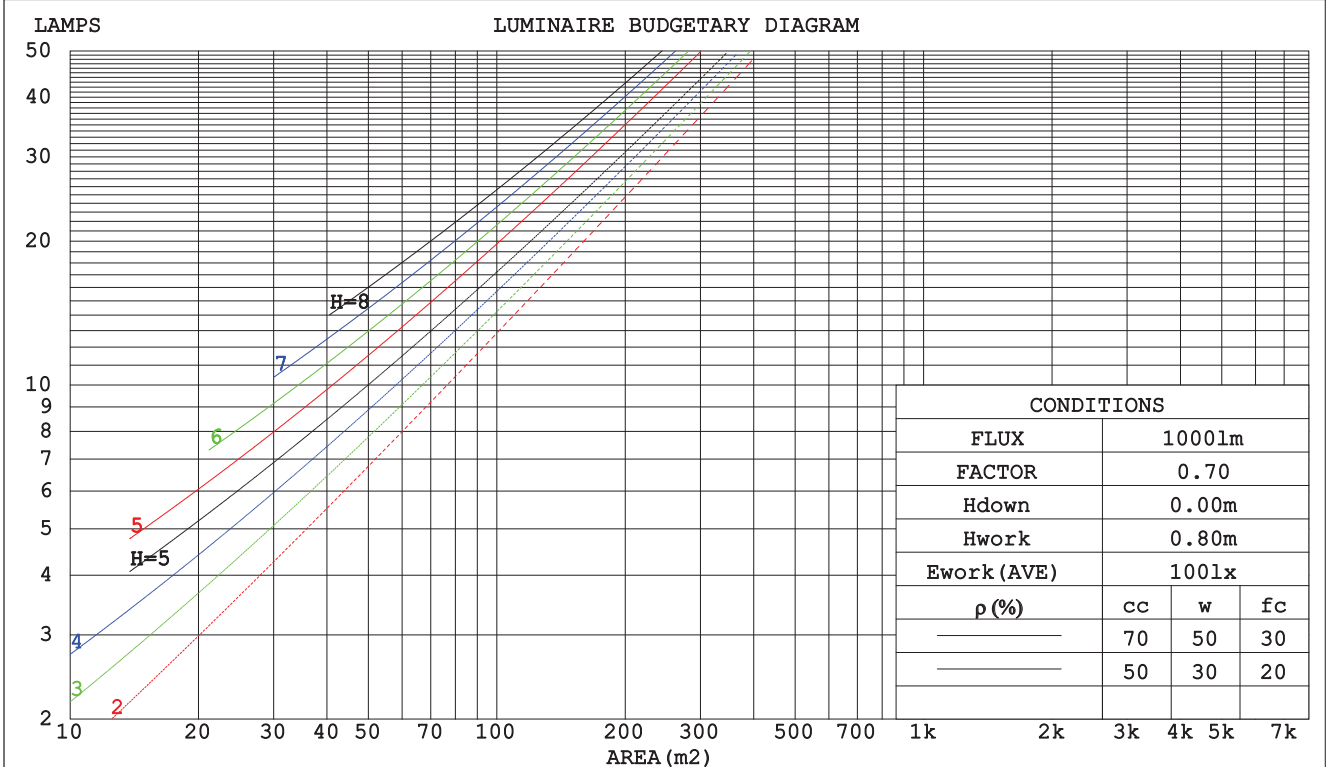
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	.00	.95	.91	.98	.94	.90	.95	.91	.88	.91	.89	.86	.89	.86	.84	.82
3.0	.91	.86	.81	.90	.85	.80	.87	.83	.79	.85	.81	.78	.82	.79	.76	.75
4.0	.84	.78	.73	.83	.77	.72	.81	.75	.71	.78	.74	.70	.76	.73	.69	.68
5.0	.78	.71	.66	.77	.70	.65	.75	.69	.65	.73	.68	.64	.71	.67	.64	.62
6.0	.72	.65	.60	.71	.64	.60	.69	.63	.59	.68	.63	.59	.66	.62	.58	.57
7.0	.67	.60	.55	.66	.59	.55	.64	.59	.54	.63	.58	.54	.62	.57	.54	.52
8.0	.62	.55	.50	.61	.55	.50	.60	.54	.50	.59	.54	.50	.58	.53	.50	.48
9.0	.58	.51	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.54	.50	.46	.44
10.0	.54	.48	.43	.54	.47	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm									
NAME: SHBL-M-50W-6090D-R-4K					TYPE:			WEIGHT:	
SPEC.:					DIM.:			SERIAL No.:	
MFR.: SoFoLED.com					SUR.:			Shielding Angle:	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.209	.119	.038	.202	.115	.037	.189	.108	.035	.177	.102	.033	.166	.096	.031	
2.0	.201	.110	.034	.195	.108	.033	.184	.102	.032	.174	.098	.031	.165	.093	.029	
3.0	.192	.102	.031	.187	.100	.030	.177	.096	.029	.168	.092	.028	.160	.089	.027	
4.0	.182	.095	.028	.178	.093	.027	.169	.090	.027	.162	.087	.026	.154	.084	.026	
5.0	.173	.088	.026	.169	.087	.025	.162	.084	.025	.155	.082	.024	.148	.079	.024	
6.0	.164	.082	.024	.161	.081	.023	.154	.079	.023	.148	.077	.023	.142	.075	.022	
7.0	.156	.077	.022	.153	.076	.022	.147	.074	.021	.142	.073	.021	.136	.071	.021	
8.0	.148	.073	.020	.146	.072	.020	.140	.070	.020	.135	.069	.020	.131	.067	.020	
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.126	.064	.018	
10.0	.135	.065	.018	.133	.064	.018	.128	.063	.018	.124	.062	.018	.121	.061	.017	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.176	.160	.145	.151	.137	.125	.103	.094	.087	.059	.055	.050	.019	.018	.016	
2.0	.163	.135	.112	.140	.116	.097	.096	.081	.067	.055	.047	.040	.018	.015	.013	
3.0	.152	.117	.088	.131	.101	.077	.090	.070	.054	.052	.041	.032	.017	.013	.010	
4.0	.143	.102	.071	.123	.089	.062	.085	.062	.044	.049	.036	.026	.016	.012	.008	
5.0	.135	.091	.059	.116	.079	.051	.080	.055	.036	.046	.032	.021	.015	.011	.007	
6.0	.129	.082	.049	.110	.071	.043	.076	.050	.030	.044	.029	.018	.014	.010	.006	
7.0	.122	.075	.042	.105	.065	.037	.073	.046	.026	.042	.027	.015	.014	.009	.005	
8.0	.117	.069	.036	.100	.060	.032	.069	.042	.023	.040	.025	.013	.013	.008	.004	
9.0	.111	.064	.032	.096	.056	.028	.067	.039	.020	.039	.023	.012	.013	.008	.004	
10.0	.107	.060	.029	.092	.052	.025	.064	.037	.018	.037	.022	.011	.012	.007	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm										
NAME: SHBL-M-50W-6090D-R-4K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: SoFoLED.com					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	14.4	15.5	14.6	15.7	15.9	8.4	9.6	8.7	9.7	9.9
3H	14.2	15.3	14.5	15.5	15.7	9.4	10.4	9.7	10.6	10.9
4H	14.2	15.1	14.5	15.4	15.6	10.2	11.2	10.5	11.4	11.6
6H	14.1	15.0	14.4	15.3	15.5	10.8	11.7	11.1	11.9	12.2
8H	14.0	14.9	14.4	15.2	15.5	10.8	11.7	11.2	12.0	12.3
12H	14.0	14.8	14.3	15.1	15.4	10.9	11.7	11.2	12.0	12.3
4H 2H	14.1	15.1	14.4	15.3	15.6	8.4	9.4	8.7	9.6	9.8
3H	14.0	14.8	14.3	15.1	15.4	9.5	10.3	9.8	10.6	10.9
4H	13.9	14.7	14.3	15.0	15.3	10.3	11.1	10.7	11.4	11.7
6H	13.9	14.5	14.3	14.9	15.2	11.0	11.7	11.4	12.0	12.4
8H	13.8	14.4	14.2	14.8	15.2	11.1	11.7	11.5	12.1	12.5
12H	13.8	14.4	14.2	14.7	15.1	11.2	11.7	11.6	12.1	12.5
8H 4H	13.8	14.4	14.2	14.8	15.2	10.2	10.9	10.7	11.2	11.6
6H	13.8	14.3	14.2	14.7	15.1	10.9	11.4	11.4	11.8	12.3
8H	13.7	14.2	14.2	14.6	15.0	11.1	11.5	11.6	12.0	12.4
12H	13.7	14.1	14.2	14.5	15.0	11.2	11.6	11.7	12.0	12.5
12H 4H	13.8	14.3	14.2	14.7	15.1	10.2	10.8	10.6	11.2	11.6
6H	13.7	14.2	14.2	14.6	15.0	10.9	11.3	11.4	11.8	12.2
8H	13.7	14.1	14.2	14.5	15.0	11.1	11.4	11.5	11.9	12.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 4.7					+ 0.7 / - 0.8				
1.5H	+ 2.9 / - 6.4					+ 1.4 / - 1.0				
2.0H	+ 5.9 / - 8.5					+ 0.8 / - 1.0				

CIE Pub.117, 6696 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.6)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	SUR.:	Shielding Angle:

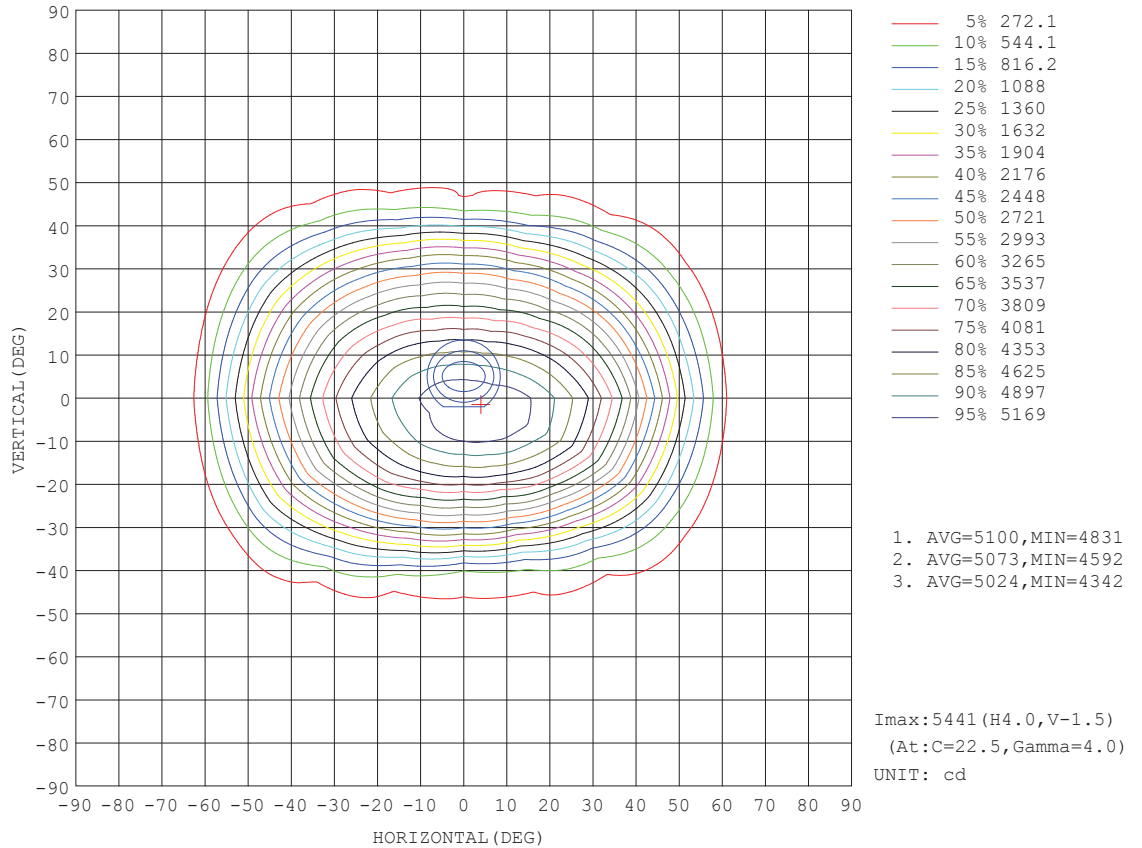
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	77	69	64	76	69	64	76	68	64	59
0.80	86	78	73	85	78	73	84	77	73	68
1.00	92	85	80	91	85	80	90	85	80	75
1.25	98	91	86	96	90	86	94	89	85	80
1.50	101	95	91	100	94	90	97	93	89	84
2.00	105	100	96	104	99	95	101	97	93	88
2.50	107	102	99	106	101	98	102	99	96	89
3.00	109	105	102	107	104	100	104	101	98	91
4.00	112	108	105	110	106	104	106	103	101	93
5.00	113	110	108	111	108	106	107	105	103	95
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:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	SUR.:	Shielding Angle:

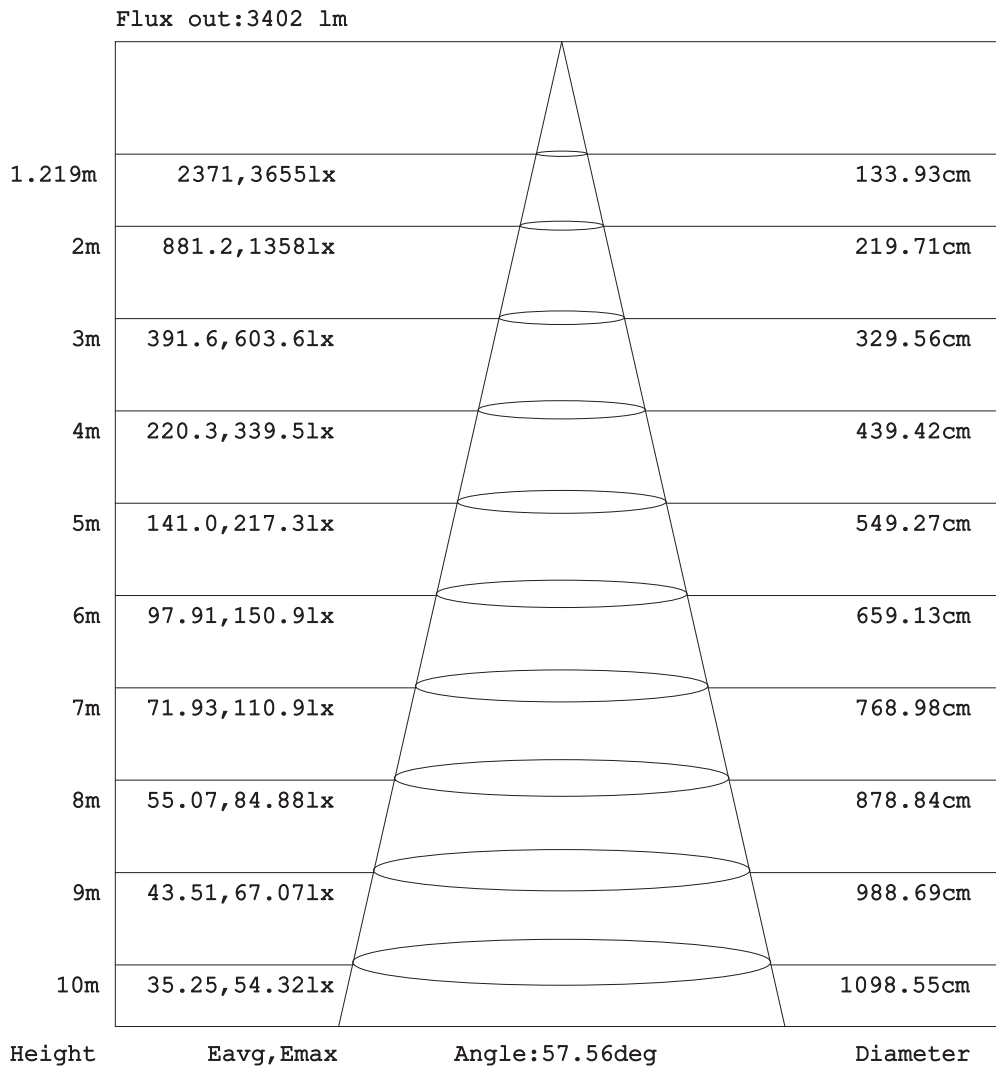


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	SUR.:	Shielding Angle:



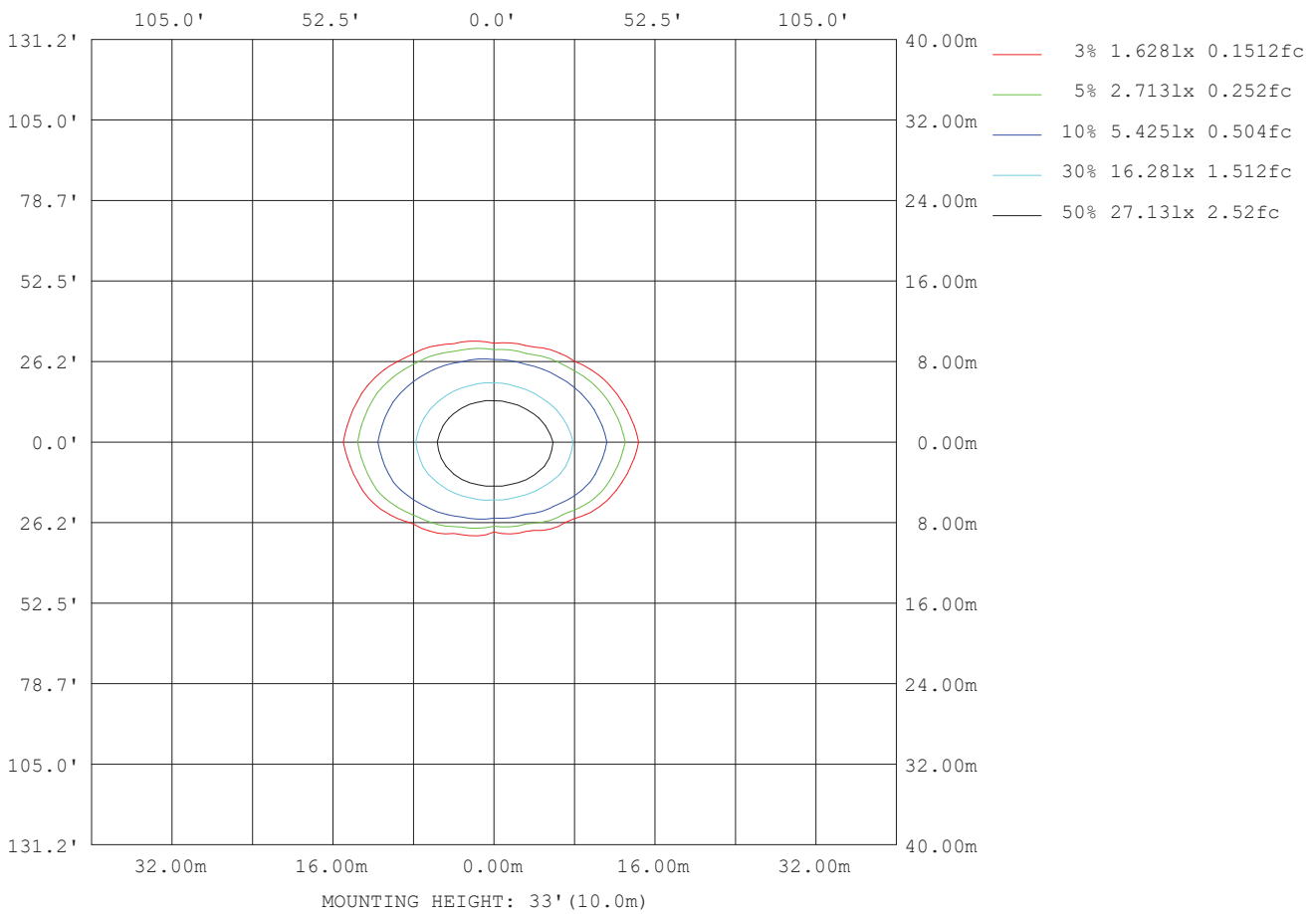
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.2V I:0.2361A P:49.98W PF:0.9601 Freq:49.99Hz Lamp Flux:6696.42x1 lm		
NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SoFoLED.com	SUR.:	Shielding Angle:

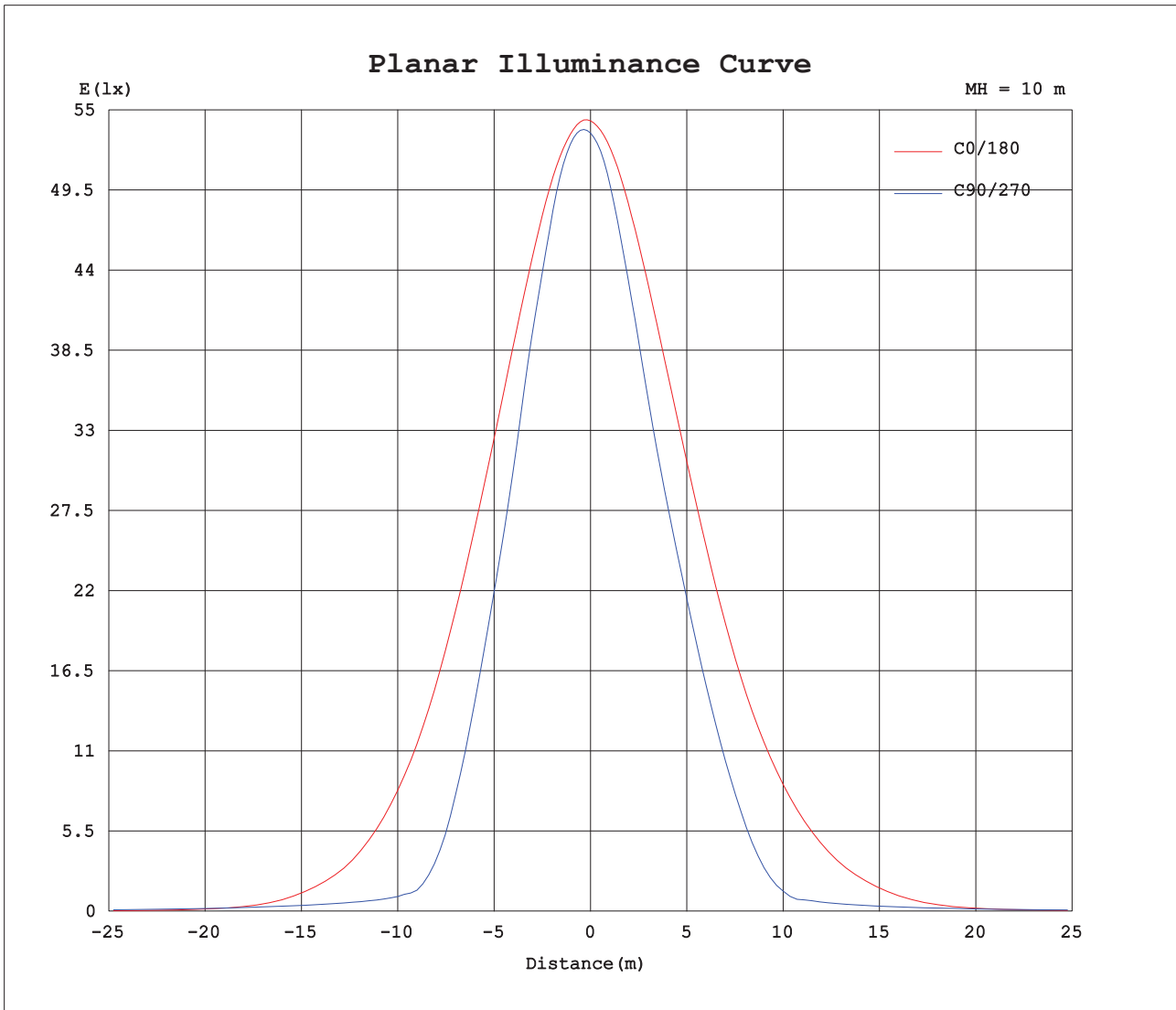
AvgL	cd/m2
L_0~180 (65) av	3403
L_0~180 (75) av	1649
L_0~180 (85) av	1481
L_90~270 (65) av	4452
L_90~270 (75) av	5737
L_90~270 (85) av	3531
L_45 (65) av	1802
L_45 (75) av	1696
L_45 (85) av	1236

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:08 January 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: SHBL-M-50W-6090D-R-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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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	5425	5400	5380	5357	5341	5323	5310	5300	5425	5400	5380	5357	5341	5323	5310	5300			
5	5430	5440	5432	5405	5370	5335	5300	5258	5341	5270	5203	5141	5121	5135	5188	5244			
10	5354	5383	5322	5239	5165	5158	5154	5123	5184	5063	4900	4744	4688	4739	4900	5092			
15	5192	5215	5049	4821	4707	4754	4874	4914	4975	4792	4519	4280	4181	4259	4527	4847			
20	4957	4954	4613	4267	4075	4240	4461	4643	4716	4461	4113	3778	3657	3738	4078	4525			
25	4645	4577	4048	3464	3303	3505	3975	4297	4418	4095	3652	3310	3165	3231	3565	4127			
30	4264	4064	3264	2647	2466	2751	3321	3851	4053	3677	3175	2767	2585	2651	3027	3660			
35	3751	3407	2405	1645	1454	1835	2574	3313	3594	3190	2613	2112	1877	1945	2390	3084			
40	3090	2629	1504	768	555	946	1771	2681	3054	2614	1974	1351	1046	1147	1680	2402			
45	2349	1779	757	344	286	389	1018	1983	2460	1986	1275	649	391	513	973	1685			
50	1570	1011	311	237	249	203	452	1313	1787	1330	644	264	241	251	431	1011			
55	894	474	149	208	236	166	168	684	1106	722	263	159	210	194	173	477			
60	343	193	90.9	189	226	142	92.6	241	476	296	130	127	193	170	101	185			
65	115	98.8	67.0	159	205	112	71.4	109	173	127	87.8	107	172	150	78.4	94.7			
70	57.2	61.5	49.8	116	181	76.2	56.9	73.4	73.7	79.9	71.5	81.1	137	111	63.9	68.0			
75	38.2	40.8	32.1	74.4	180	48.6	40.7	55.2	47.1	60.6	55.3	54.5	117	71.5	47.5	50.6			
80	23.0	22.8	17.6	35.3	86.1	23.5	23.0	32.9	30.9	37.7	34.5	39.1	117	40.7	28.2	29.9			
85	8.30	7.43	5.55	10.2	23.3	8.84	8.99	11.1	17.5	14.6	17.7	15.5	38.3	13.7	10.9	9.16			
90	0.70	0.81	1.08	2.15	3.83	2.08	1.56	1.59	2.12	3.78	4.90	5.62	9.10	4.07	1.98	0.84			
95	0.59	0.46	0.43	0.37	0.47	0.40	0.54	0.49	0.50	0.51	0.53	0.38	0.42	0.33	0.42	0.42			
100	0.54	0.46	0.35	0.36	0.64	0.44	0.37	0.45	0.51	0.44	0.32	0.44	0.56	0.38	0.28	0.40			
105	0.62	0.54	0.34	0.38	0.45	0.43	0.35	0.48	0.66	0.43	0.34	0.41	0.53	0.34	0.30	0.46			
110	1.03	0.84	0.42	0.41	0.45	0.47	0.35	0.67	1.06	0.71	0.43	0.45	0.59	0.35	0.43	0.84			
115	1.78	1.43	0.74	0.54	0.53	0.57	0.60	1.12	1.80	1.28	0.69	0.56	0.67	0.47	0.77	1.52			
120	2.83	2.34	1.36	0.87	0.73	0.83	1.07	1.90	2.88	2.20	1.21	0.79	0.81	0.76	1.40	2.52			
125	4.16	3.56	2.31	1.51	1.22	1.37	1.89	3.01	4.29	3.48	2.09	1.30	1.20	1.36	2.40	3.84			
130	5.68	5.03	3.59	2.52	2.08	2.29	3.04	4.39	5.94	5.04	3.37	2.23	1.99	2.39	3.76	5.41			
135	7.30	6.63	5.10	3.88	3.33	3.54	4.44	5.93	7.70	6.73	4.98	3.62	3.27	3.87	5.43	7.11			
140	9.01	8.31	6.74	5.46	4.85	5.06	6.01	7.61	9.53	8.51	6.79	5.41	5.03	5.71	7.27	8.85			
145	10.7	10.0	8.47	7.19	6.55	6.72	7.73	9.34	11.3	10.3	8.69	7.40	7.09	7.73	9.16	10.6			
150	12.3	11.7	10.3	9.00	8.35	8.56	9.58	11.1	13.0	12.1	10.7	9.47	9.21	9.80	11.1	12.2			
155	13.8	13.2	12.0	10.9	10.4	10.6	11.5	12.8	14.5	13.8	12.7	11.6	11.4	11.9	12.9	13.6			
160	15.0	14.6	13.7	12.9	12.5	12.6	13.3	14.3	15.8	15.3	14.5	13.8	13.6	13.9	14.5	14.9			
165	16.1	15.8	15.1	14.7	14.3	14.4	14.8	15.6	16.8	16.5	16.0	15.6	15.5	15.6	15.8	15.9			
170	16.9	16.7	16.3	16.1	15.9	15.9	16.1	16.5	17.4	17.3	17.1	16.8	16.8	16.8	16.8	16.7			
175	17.5	17.5	17.2	17.2	17.0	17.1	17.1	17.2	17.9	17.7	17.8	17.6	17.6	17.4	17.4	17.2			
180	17.9	17.9	17.8	17.8	17.6	17.6	17.5	17.5	18.0	17.8	17.8	17.7	17.7	17.6	17.6	17.4			

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