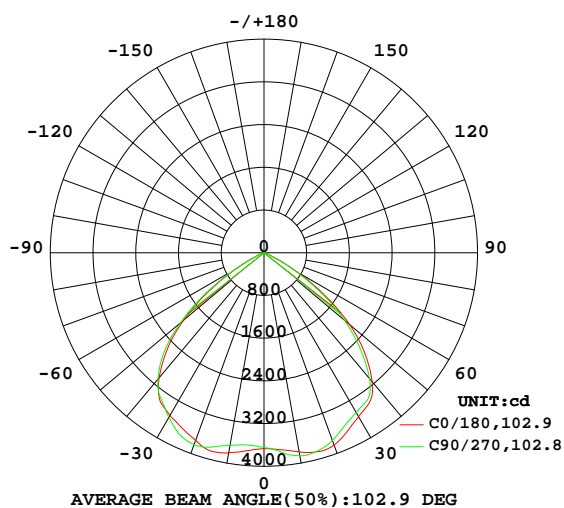


LUMINAIRE PHOTOMETRIC TEST REPORT

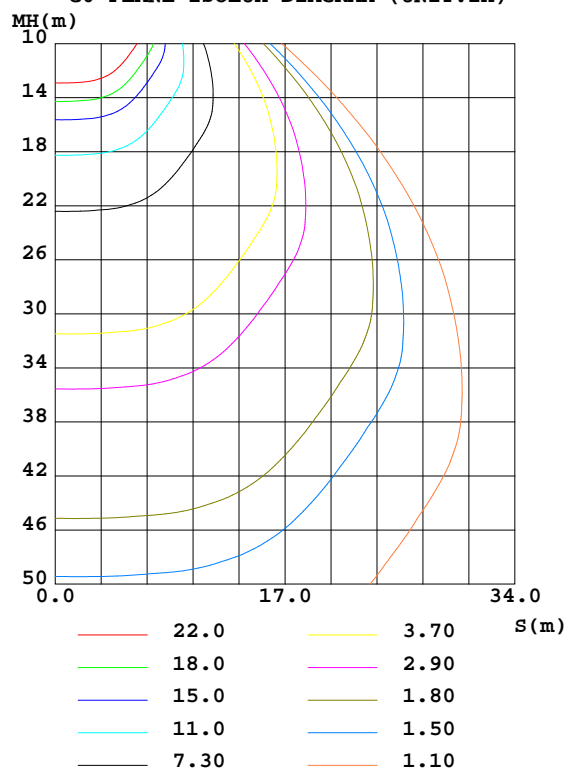
Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 99.21 lm/W			
MODEL	BNL-HBC100W	I _{max} (cd)	3876	S/MH(C0/180)	1.41
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.42
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	8748.4	η UP,DN(C0-180)	0.2,49.5
NOMINAL FLUX(lm)	8748.44	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,50.1
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	99.6	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:24.5DEG
 Operators:Seth
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.3233]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3787	3713	3859	3810	3802	3680	3663	3722	0- 10	354.6	354.6	4.05,4.05
20	3835	3598	3740	3580	3741	3683	3822	3695	10- 20	1065	1420	16.2,16.2
30	3544	3517	3453	3547	3521	3564	3559	3520	20- 30	1680	3100	35.4,35.4
40	3148	3118	3074	2998	3054	3107	3087	3123	30- 40	2117	5217	59.6,59.6
50	2094	2066	1981	1919	1966	2008	2048	2094	40- 50	2004	7220	82.5,82.5
60	713.3	674.9	648.9	622.7	614.2	619.0	672.7	740.5	50- 60	1180	8400	96,96
70	76.56	56.28	68.37	52.35	65.32	52.32	78.08	69.05	60- 70	256.9	8657	99,99
80	32.88	14.20	28.55	14.93	32.53	14.89	35.42	17.93	70- 80	39.32	8696	99.4,99.4
90	26.29	4.992	20.03	5.655	28.08	4.848	27.66	5.838	80- 90	17.76	8714	99.6,99.6
100	3.200	2.000	2.946	2.128	3.061	1.996	2.981	2.059	90-100	7.631	8722	99.7,99.7
110	1.198	0.9307	1.131	0.9970	2.738	2.530	2.595	2.397	100-110	2.008	8724	99.7,99.7
120	1.198	1.064	1.129	1.129	5.191	5.059	4.863	4.661	110-120	2.289	8726	99.7,99.7
130	3.125	3.124	3.054	3.319	7.458	7.181	7.120	6.981	120-130	3.555	8729	99.8,99.8
140	6.580	6.513	6.649	6.775	9.317	9.175	8.979	8.779	130-140	5.025	8734	99.8,99.8
150	8.382	8.442	8.446	8.441	10.98	10.77	10.84	10.64	140-150	5.554	8740	99.9,99.9
160	8.052	8.043	7.981	8.107	11.31	11.30	11.37	11.23	150-160	4.458	8744	100,100
170	11.38	11.29	11.44	11.22	11.65	11.57	11.51	11.37	160-170	2.852	8747	100,100
180	12.38	12.37	12.37	12.30	12.51	12.50	12.44	12.36	170-180	1.139	8748	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6277 lm

%lum = 71.7%

%lamp = 71.7%

Conical surface Flux(120deg): 8399.9 lm

%lum = 96.0%

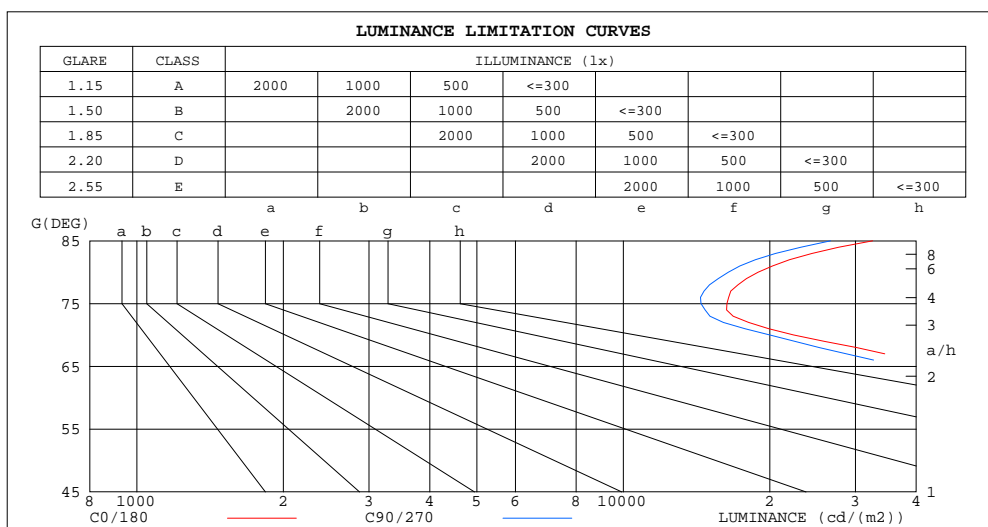
%lamp = 96.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.3233]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	32535	26664
80	18933	16443
75	16325	14438
70	22386	19989
65	49865	40855
60	142650	129785
55	242885	225133
50	325764	308219
45	378499	361446

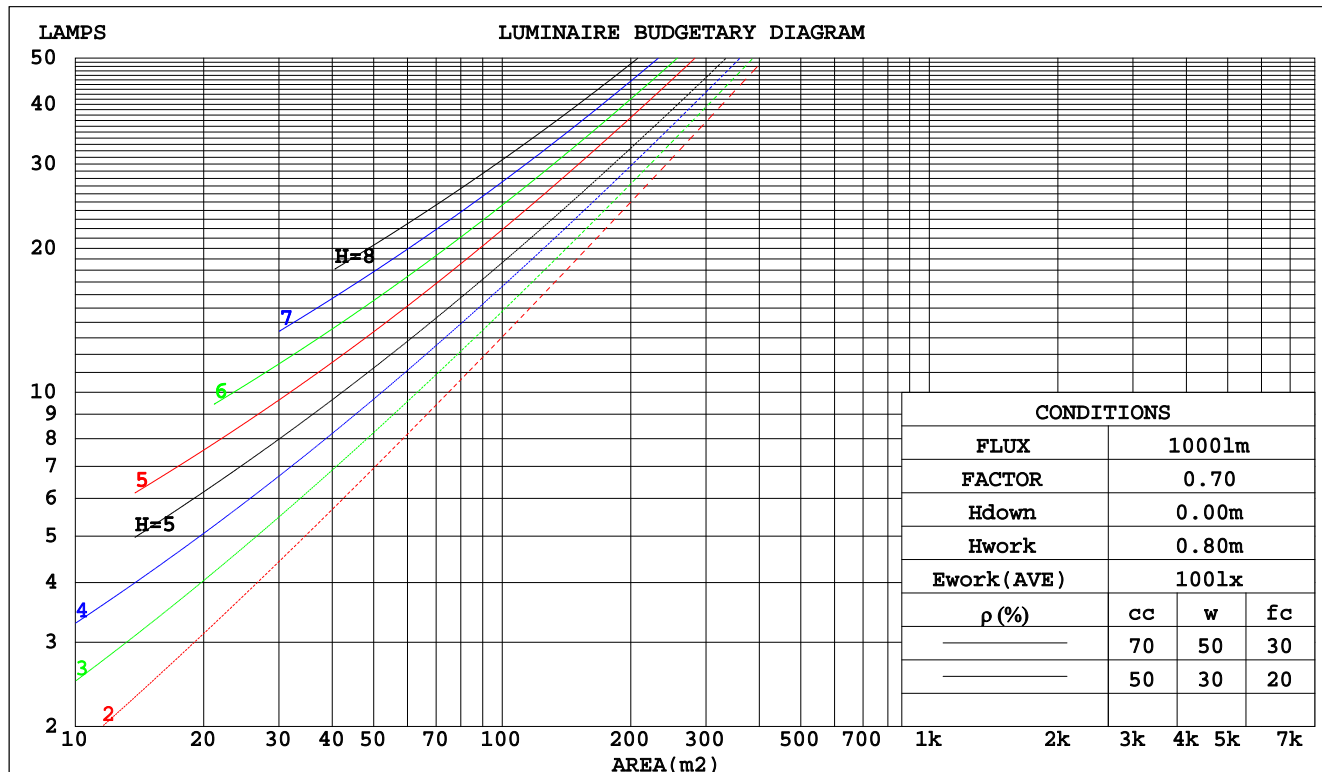
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.3233]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A

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	1.08	1.05	1.02	1.06	1.03	1.00	1.01	.99	.97	.98	.96	.94	.94	.92	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.88	.85	.82	.86	.83	.80	.78
3.0	.87	.80	.75	.86	.79	.74	.83	.77	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.78	.71	.65	.77	.70	.65	.75	.69	.64	.73	.67	.63	.70	.66	.62	.60
5.0	.71	.63	.57	.70	.63	.57	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6.0	.64	.56	.51	.63	.56	.51	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7.0	.59	.51	.45	.58	.50	.45	.56	.50	.45	.55	.49	.44	.54	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.51	.44	.40	.49	.44	.40	.38
9.0	.49	.42	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
10.0	.46	.38	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Seth
 Test Date: 2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.3233]
 Remarks:

WEC AND CCEC

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A

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	.232	.132	.042	.225	.129	.041	.212	.122	.039	.200	.115	.037	.189	.110	.035		
2.0	.228	.125	.038	.222	.123	.038	.211	.117	.036	.201	.113	.035	.191	.108	.034		
3.0	.220	.117	.035	.214	.115	.035	.204	.111	.034	.195	.107	.033	.187	.103	.032		
4.0	.209	.109	.032	.204	.107	.032	.196	.104	.031	.188	.101	.030	.180	.098	.030		
5.0	.198	.101	.029	.194	.100	.029	.186	.097	.029	.179	.095	.028	.172	.092	.028		
6.0	.188	.094	.027	.184	.093	.027	.177	.091	.026	.171	.089	.026	.165	.087	.026		
7.0	.178	.088	.025	.175	.087	.025	.168	.085	.025	.162	.083	.024	.157	.082	.024		
8.0	.168	.082	.023	.165	.081	.023	.160	.080	.023	.155	.078	.023	.150	.077	.022		
9.0	.160	.077	.022	.157	.077	.021	.152	.075	.021	.147	.074	.021	.143	.072	.021		
10.0	.152	.073	.020	.149	.072	.020	.145	.071	.020	.140	.070	.020	.136	.069	.020		

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.178	.160	.144	.152	.137	.124	.104	.094	.085	.060	.055	.050	.019	.018	.016	
2.0	.167	.135	.109	.143	.116	.094	.098	.081	.066	.056	.047	.038	.018	.015	.013	
3.0	.158	.117	.084	.135	.101	.073	.093	.070	.051	.054	.041	.030	.017	.013	.010	
4.0	.150	.103	.067	.129	.089	.059	.089	.062	.041	.051	.036	.024	.016	.012	.008	
5.0	.143	.092	.055	.123	.080	.048	.085	.056	.034	.049	.033	.020	.016	.011	.007	
6.0	.137	.084	.046	.117	.073	.040	.081	.051	.028	.047	.030	.017	.015	.010	.006	
7.0	.131	.077	.039	.112	.067	.034	.078	.047	.024	.045	.028	.014	.015	.009	.005	
8.0	.125	.071	.034	.108	.062	.030	.074	.043	.021	.043	.026	.013	.014	.008	.004	
9.0	.120	.066	.030	.103	.057	.026	.071	.040	.019	.042	.024	.011	.013	.008	.004	
10.0	.115	.062	.027	.099	.054	.023	.069	.038	.017	.040	.022	.010	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.3233]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm										
NAME: LED Bulb					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					DIM.:			SERIAL No.:N/A		
MFR.: Benory Industrial Co., LTD.					SUR.:			Shielding Angle:N/A		
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	31.5	32.8	31.8	33.0	33.2	31.3	32.6	31.6	32.8	33.0
3H	31.4	32.6	31.7	32.8	33.0	31.2	32.3	31.4	32.6	32.8
4H	31.3	32.4	31.6	32.6	32.9	31.1	32.2	31.4	32.4	32.7
6H	31.2	32.2	31.5	32.5	32.8	31.0	32.0	31.3	32.3	32.6
8H	31.1	32.2	31.5	32.4	32.7	30.9	31.9	31.3	32.2	32.5
12H	31.1	32.1	31.4	32.4	32.7	30.9	31.8	31.2	32.1	32.4
4H 2H	31.4	32.6	31.7	32.8	33.1	31.3	32.4	31.6	32.6	32.9
3H	31.3	32.3	31.6	32.6	32.9	31.1	32.1	31.4	32.3	32.6
4H	31.2	32.1	31.6	32.4	32.7	31.0	31.9	31.4	32.2	32.5
6H	31.1	31.9	31.5	32.2	32.6	30.9	31.7	31.3	32.0	32.4
8H	31.1	31.8	31.5	32.2	32.5	30.9	31.6	31.3	32.0	32.3
12H	31.1	31.7	31.5	32.1	32.5	30.8	31.5	31.3	31.9	32.3
8H 4H	31.1	31.8	31.5	32.1	32.5	30.9	31.6	31.3	31.9	32.3
6H	31.0	31.6	31.4	32.0	32.4	30.8	31.4	31.2	31.8	32.2
8H	31.0	31.5	31.4	31.9	32.4	30.8	31.3	31.2	31.7	32.1
12H	31.0	31.4	31.4	31.8	32.3	30.7	31.2	31.2	31.6	32.1
12H 4H	31.0	31.7	31.5	32.1	32.5	30.8	31.5	31.3	31.9	32.3
6H	31.0	31.5	31.4	31.9	32.3	30.8	31.3	31.2	31.7	32.1
8H	30.9	31.4	31.4	31.8	32.3	30.7	31.1	31.2	31.6	32.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.7					+ 1.3 / - 2.0				
1.5H	+ 0.7 / - 0.7					+ 0.6 / - 0.7				
2.0H	+ 2.7 / - 6.3					+ 2.7 / - 6.5				

CIE Pub.117 Corrected 8748 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.5)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.3233]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A

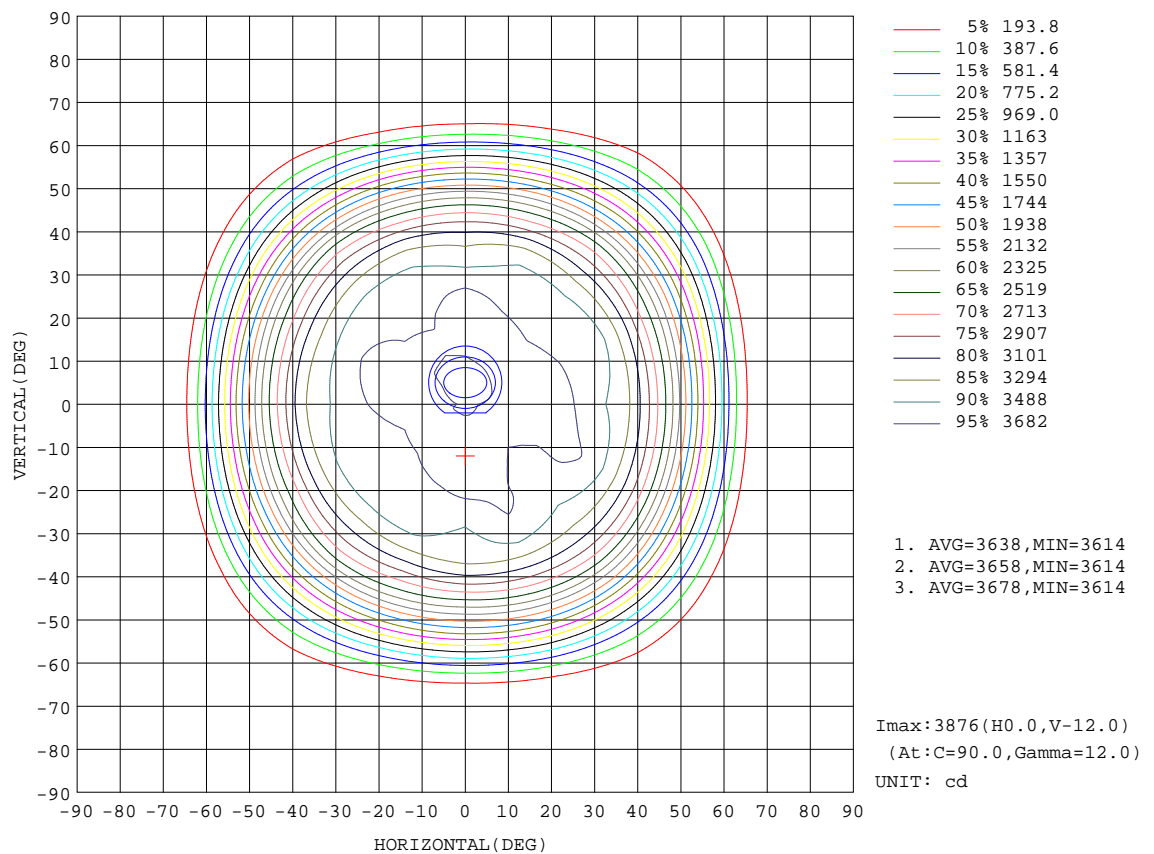
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	65	55	49	63	54	49	43
0.80	76	66	60	75	66	60	74	65	59	54
1.00	85	76	70	84	75	70	82	76	69	63
1.25	92	84	78	90	83	78	88	81	77	71
1.50	96	89	83	95	88	83	92	86	82	75
2.00	102	95	91	100	94	90	97	92	88	82
2.50	104	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	94	87
4.00	110	105	102	108	104	101	104	100	98	90
5.00	111	108	105	109	106	103	105	102	100	91
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:24.5DEG
 Operators:Seth
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.3233]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A



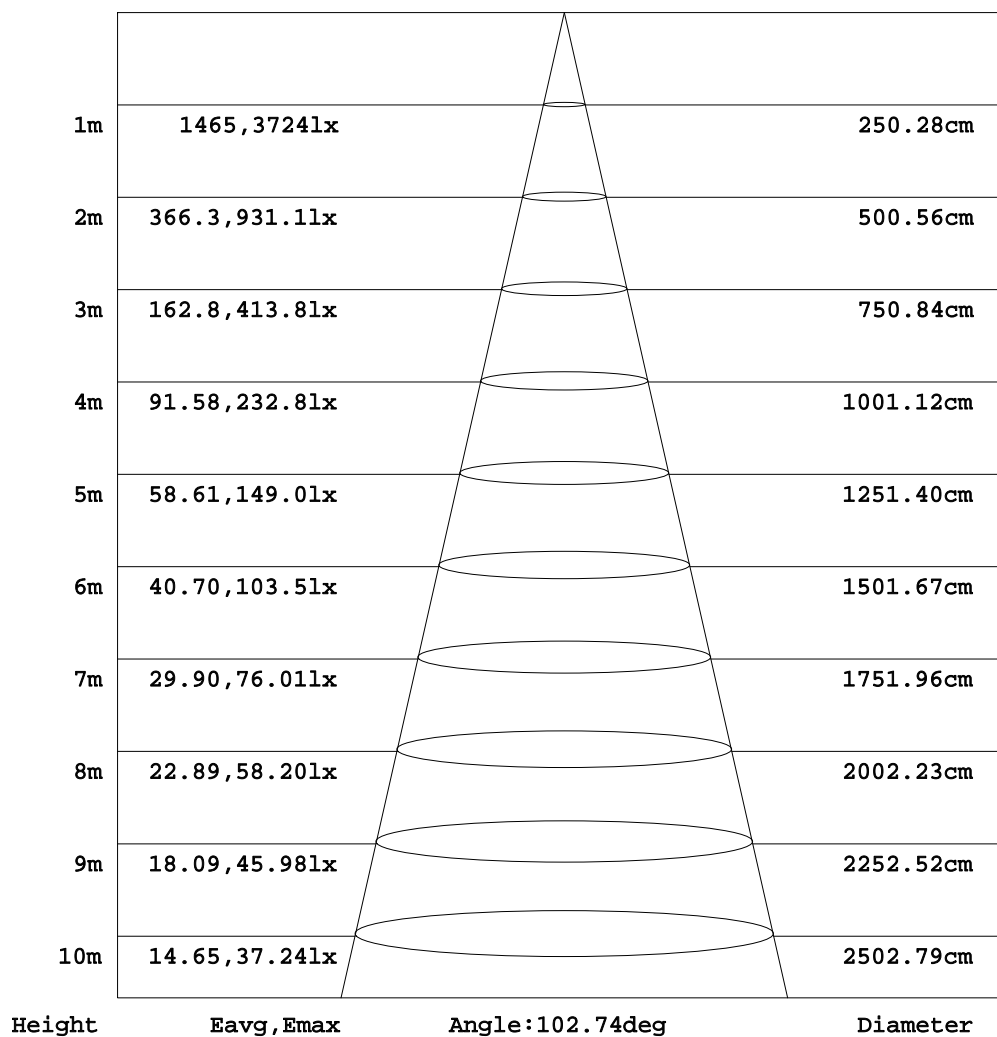
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:Seth
Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity:65.7%
Test Distance:26.000m [K=1.3233]
Remarks:

AAI Figure

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A

Flux out:7541 lm



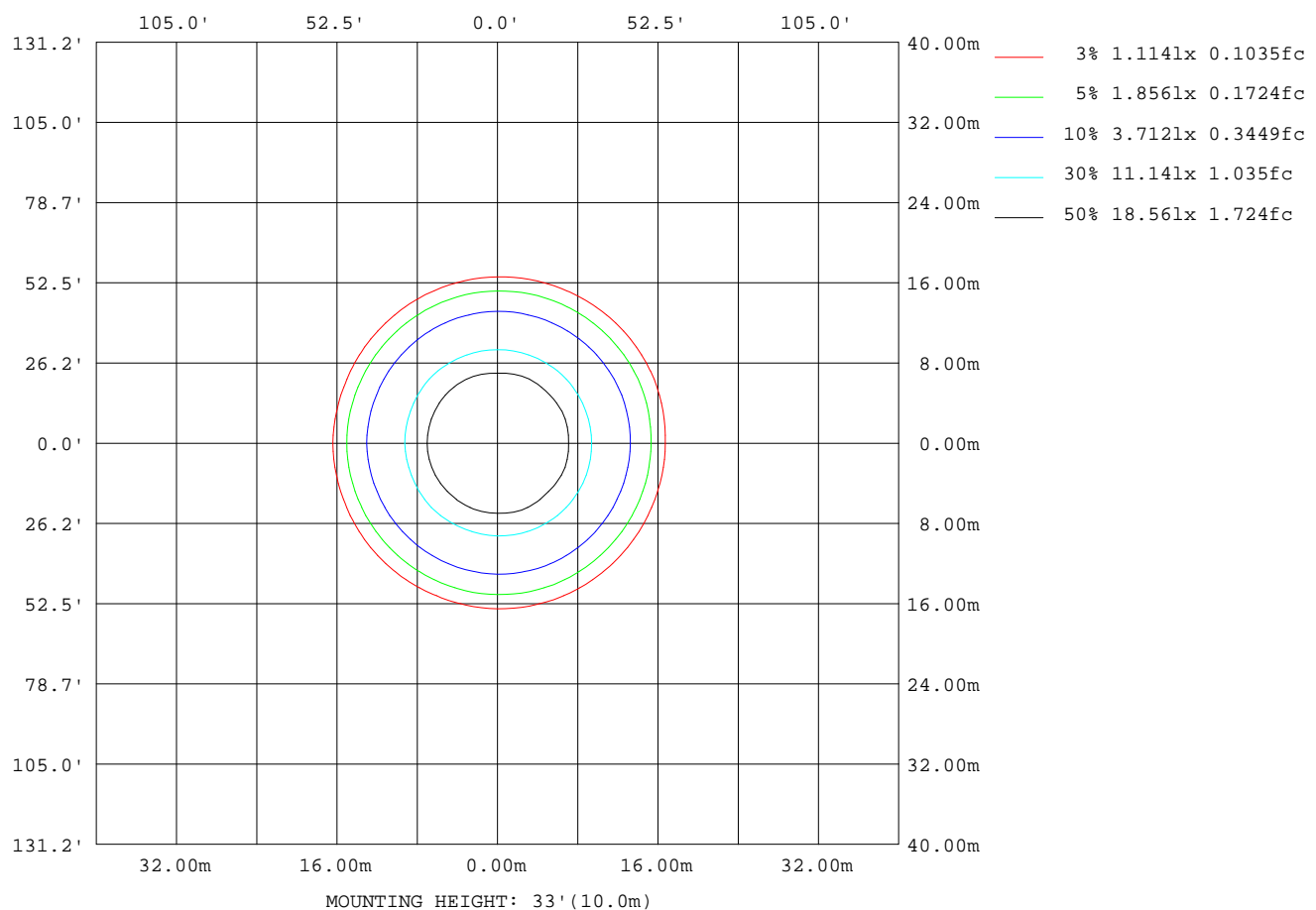
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.3233]
 Remarks:

ISOLUX DIAGRAM

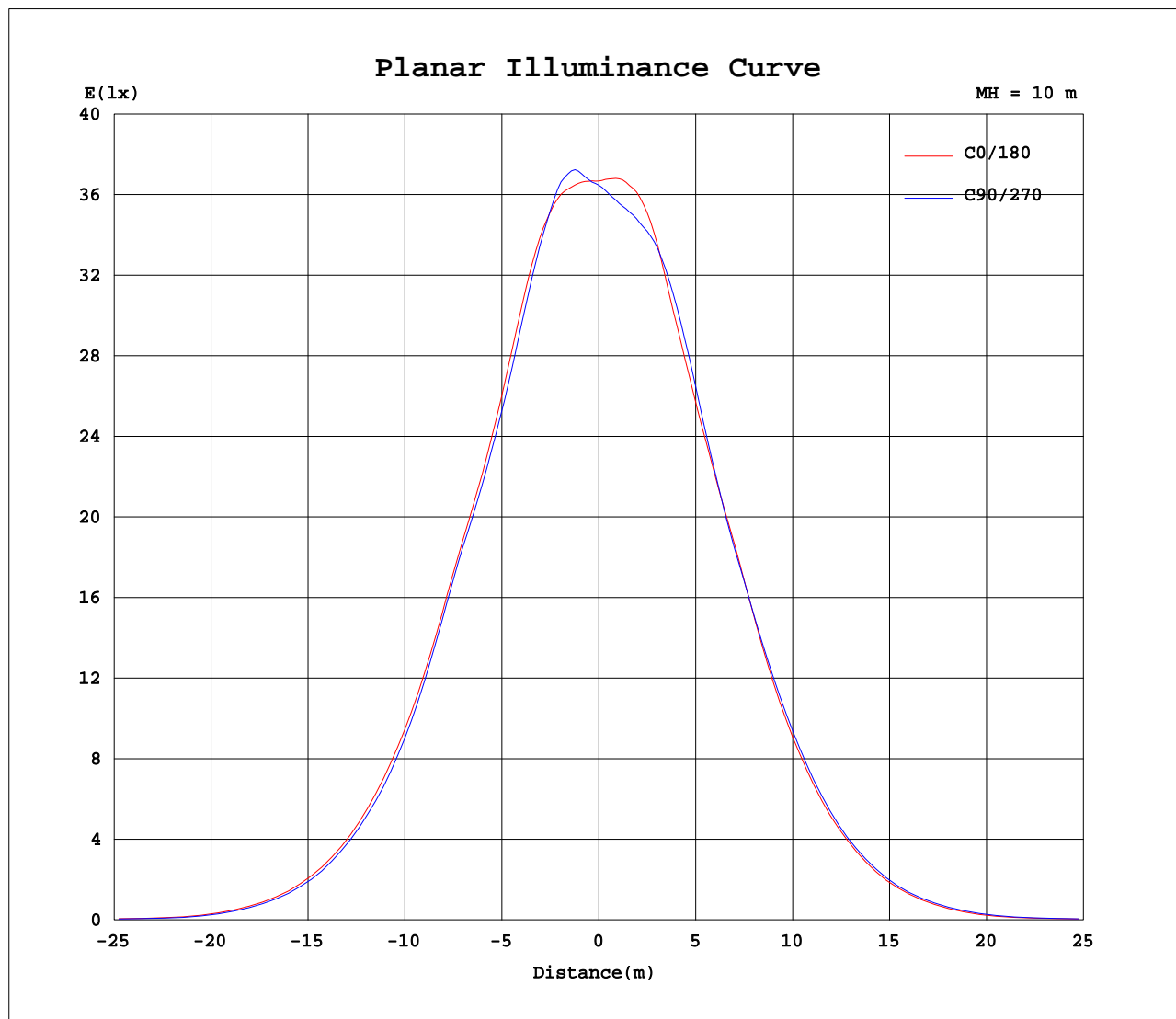
Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm		
NAME: LED Bulb	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Benory Industrial Co., LTD.	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Seth
 Test Date: 2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.3233]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2016-06-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.3233]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.1V I:0.3981A P:88.18W PF:0.9627 Freq:50.01Hz Lamp Flux:8748.44x1 lm																	
NAME: LED Bulb									TYPE:N/A						WEIGHT:N/A		
SPEC.:N/A									DIM.:						SERIAL No.:N/A		
MFR.: Benory Industrial Co., LTD.									SUR.:						Shielding Angle:N/A		

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	3668	3662	3660	3655	3647	3644	3643	3640	3668	3662	3660	3655	3647	3644	3643	3640			
5	3704	3712	3707	3725	3746	3748	3746	3729	3723	3690	3653	3634	3615	3623	3636	3652			
10	3787	3741	3713	3772	3859	3850	3810	3794	3802	3782	3680	3663	3663	3693	3722	3771			
15	3857	3733	3668	3757	3846	3802	3705	3687	3843	3867	3710	3691	3766	3807	3781	3846			
20	3835	3718	3598	3722	3740	3657	3580	3561	3741	3844	3683	3673	3822	3769	3695	3777			
25	3690	3736	3582	3709	3575	3593	3569	3536	3628	3724	3607	3620	3752	3636	3565	3652			
30	3544	3666	3517	3632	3453	3548	3547	3544	3521	3559	3564	3578	3559	3534	3520	3570			
35	3436	3484	3375	3441	3372	3358	3325	3359	3391	3384	3434	3444	3353	3472	3441	3501			
40	3148	3164	3118	3104	3074	2986	2998	2994	3054	3060	3107	3134	3087	3154	3123	3162			
45	2676	2690	2689	2625	2556	2530	2557	2514	2565	2585	2669	2637	2654	2658	2710	2672			
50	2094	2073	2066	2025	1981	1937	1919	1920	1966	1982	2008	2037	2048	2075	2094	2115			
55	1393	1366	1340	1330	1291	1272	1254	1253	1275	1271	1277	1317	1347	1376	1409	1431			
60	713	694	675	672	649	626	623	608	614	603	619	641	673	701	741	757			
65	211	213	243	190	173	178	204	165	172	171	206	182	194	221	275	239			
70	76.6	75.9	56.3	58.7	68.4	66.0	52.4	55.5	65.3	62.4	52.3	66.0	78.1	81.7	69.1	75.0			
75	42.3	34.8	27.1	27.2	37.4	33.0	26.3	28.2	40.8	33.3	26.6	30.2	44.9	39.4	31.9	34.8			
80	32.9	23.1	14.2	16.4	28.6	22.9	14.9	17.3	32.5	22.6	14.9	19.0	35.4	26.2	17.9	21.6			
85	28.4	15.0	8.05	9.57	23.2	14.7	8.65	10.8	29.0	14.8	8.24	11.7	30.8	17.0	9.96	13.1			
90	26.3	9.66	4.99	5.66	20.0	9.79	5.66	6.97	28.1	9.66	4.85	7.03	27.7	11.4	5.84	7.82			
95	11.6	5.94	3.40	4.26	9.42	6.12	3.80	4.39	9.91	5.79	3.24	4.70	11.5	7.10	4.03	5.63			
100	3.20	2.60	2.00	2.14	2.95	2.60	2.13	2.39	3.06	2.33	2.00	2.06	2.98	2.26	2.06	2.32			
105	1.74	1.47	1.26	1.27	1.60	1.40	1.27	1.33	2.40	2.20	2.00	1.99	2.26	2.06	1.99	2.00			
110	1.20	1.00	0.93	1.00	1.13	1.06	1.00	1.00	2.74	2.67	2.53	2.47	2.60	2.40	2.40	2.40			
115	1.13	0.93	0.86	0.86	1.06	1.00	0.93	1.00	3.87	3.74	3.60	3.59	3.60	3.46	3.39	3.39			
120	1.20	1.00	1.06	1.06	1.13	1.13	1.13	1.13	5.19	5.13	5.06	4.92	4.86	4.79	4.66	4.71			
125	1.85	1.80	1.79	1.86	1.92	2.05	1.93	1.92	6.26	6.33	6.19	6.05	5.99	5.85	5.85	5.78			
130	3.12	3.05	3.12	3.05	3.05	3.12	3.32	3.25	7.46	7.46	7.18	7.31	7.12	7.05	6.98	7.04			
135	4.65	4.65	4.65	4.78	4.84	4.85	4.97	4.98	8.45	8.59	8.31	8.38	8.18	8.11	8.05	8.11			
140	6.58	6.65	6.51	6.58	6.65	6.64	6.78	6.77	9.32	9.26	9.17	9.24	8.98	8.97	8.78	8.90			
145	7.52	7.73	8.04	8.04	7.78	7.90	8.17	8.17	10.3	10.1	10.0	10.0	9.98	9.84	9.71	9.70			
150	8.38	8.46	8.44	8.51	8.45	8.57	8.44	8.37	11.0	10.9	10.8	10.8	10.8	10.6	10.6	10.6			
155	7.98	7.99	7.98	7.98	7.98	8.04	8.04	8.03	11.5	11.4	11.3	11.2	11.4	11.4	11.2	11.2			
160	8.05	8.06	8.04	7.98	7.98	8.04	8.11	8.10	11.3	11.3	11.3	11.3	11.4	11.2	11.2	11.2			
165	8.65	8.64	8.58	8.62	8.50	8.50	8.51	8.55	11.2	11.3	11.2	11.1	11.1	11.1	11.0	11.0			
170	11.4	11.3	11.3	11.3	11.4	11.3	11.2	11.3	11.6	11.7	11.6	11.5	11.5	11.4	11.4	11.4			
175	12.6	12.7	12.6	12.5	12.6	12.6	12.5	12.5	12.4	12.3	12.2	12.0	12.0	12.0	12.0	12.0			
180	12.4	12.5	12.4	12.3	12.4	12.3	12.3	12.4	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.4			

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