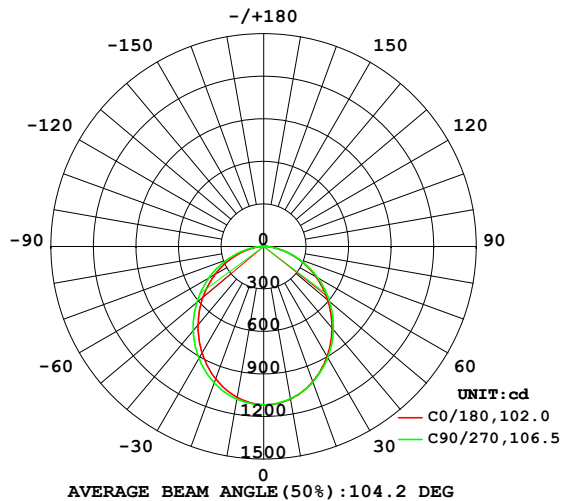


LUMINAIRE PHOTOMETRIC TEST REPORT

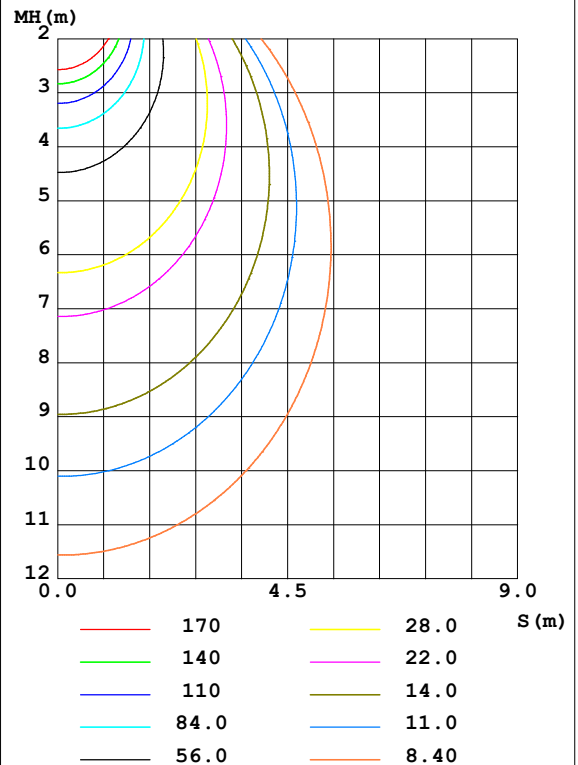
Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.71 lm/W			
MODEL	R8035-12PDM	I _{max} (cd)	1117	S/MH (C0/180)	1.17
NOMINAL POWER(W)	31.94	LOR(%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2945.4	η UP,DN(C0-180)	0.6,49.4
NOMINAL FLUX(lm)	2945.37	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.6,49.3
LAMPS INSIDE	1	η up (%)	1.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down (%)	98.8	CIBSE SHR MAX	1.35

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: KEVINLI
Test Date: 2017-12-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

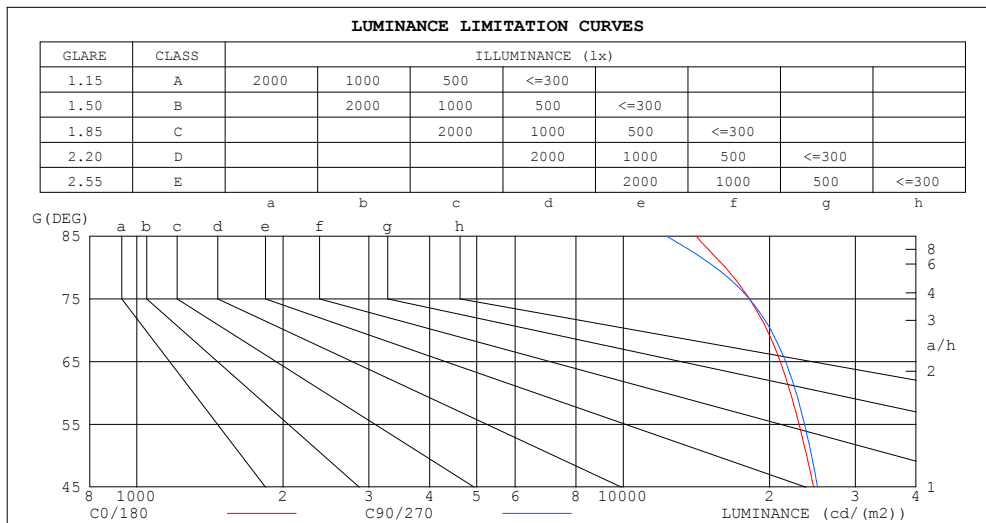
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1093	1093	1090	1083	1080	1085	1093	1094	0- 10	105.3	105.3	3.57,3.57
20	1014	1017	1017	1002	993.4	1005	1023	1021	10- 20	297.6	402.8	13.7,13.7
30	895.0	901.7	904.7	882.7	868.7	886.2	912.6	906.5	20- 30	440.7	843.5	28.6,28.6
40	749.3	758.7	764.9	738.4	720.4	742.0	773.5	764.6	30- 40	516.2	1360	46.2,46.2
50	589.7	599.9	607.3	579.4	560.6	583.2	616.6	606.3	40- 50	519.3	1879	63.8,63.8
60	424.9	432.9	439.2	413.4	396.7	416.8	448.6	439.3	50- 60	456.0	2335	79.3,79.3
70	260.3	263.4	266.7	246.0	234.3	249.1	275.8	269.9	60- 70	338.2	2673	90.8,90.8
80	108.5	105.6	104.0	92.81	87.07	94.79	111.5	111.2	70- 80	187.1	2860	97.1,97.1
90	5.424	4.348	3.230	3.244	2.936	3.059	3.661	4.793	80- 90	48.81	2909	98.8,98.8
100	3.564	3.641	3.919	3.803	3.269	3.419	3.548	3.348	90-100	3.569	2913	98.9,98.9
110	4.436	4.497	4.867	4.738	4.074	4.250	4.451	4.138	100-110	4.211	2917	99,99
120	5.433	5.450	5.864	5.740	5.005	5.151	5.373	4.976	110-120	4.844	2922	99.2,99.2
130	6.572	6.556	6.954	6.862	6.044	6.168	6.337	5.918	120-130	5.261	2927	99.4,99.4
140	7.718	7.640	7.977	7.932	7.176	7.233	7.345	6.992	130-140	5.371	2932	99.6,99.6
150	8.761	8.642	8.907	8.893	8.322	8.316	8.409	8.080	140-150	5.026	2937	99.7,99.7
160	9.767	9.562	9.769	9.810	9.431	9.374	9.383	9.146	150-160	4.170	2942	99.9,99.9
170	10.65	10.32	10.42	10.46	10.50	10.24	10.23	10.08	160-170	2.812	2944	100,100
180	11.07	10.73	10.72	10.74	11.07	10.75	10.72	10.74	170-180	1.006	2945	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14109	12268
80	16237	15459
75	18176	18165
70	19768	20127
65	21031	21557
60	22075	22674
55	22997	23599
50	23828	24388
45	24637	25115

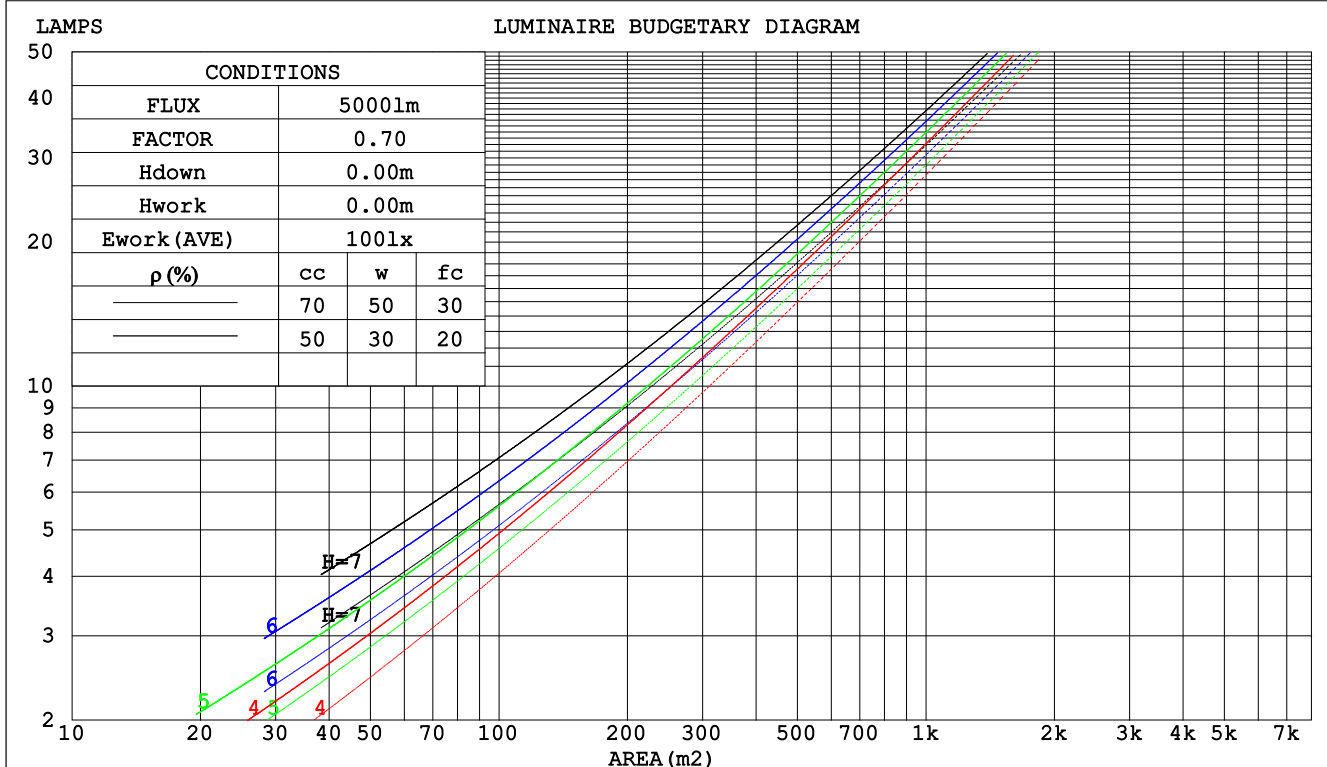
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.89	.87	.85	.83
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.76	.82	.77	.74	.79	.75	.72	.70
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.64	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.56	.70	.62	.55	.67	.60	.54	.65	.58	.54	.62	.57	.53	.51
5.0	.64	.55	.48	.62	.54	.48	.60	.53	.47	.58	.52	.47	.56	.50	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.38
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.27
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:KEVINLI
 Test Date:2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.310m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm					
NAME: R8035-12PDM			TYPE:R8035-12PDM		WEIGHT:
SPEC.:4FT			DIM.: 4FT		SERIAL No.:1
MFR.: BLUEVISION			SUR.:1220*32		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	.301	.171	.054	.293	.167	.053	.279	.160	.051	.267	.154	.049	.255	.148	.048		
2.0	.284	.156	.048	.278	.153	.047	.265	.148	.046	.254	.142	.045	.243	.138	.043		
3.0	.264	.140	.042	.258	.138	.042	.247	.134	.041	.237	.130	.040	.228	.126	.039		
4.0	.244	.127	.037	.239	.125	.037	.229	.121	.036	.220	.118	.036	.212	.115	.035		
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.205	.108	.032	.197	.105	.032		
6.0	.210	.105	.030	.206	.104	.030	.198	.102	.030	.191	.099	.029	.184	.097	.029		
7.0	.196	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026		
8.0	.183	.089	.025	.180	.088	.025	.173	.087	.025	.168	.085	.024	.162	.083	.024		
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.022		
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.149	.074	.021	.144	.073	.021		

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.189	.166	.145	.162	.142	.124	.111	.098	.086	.064	.057	.050	.020	.018	.016	
2.0	.181	.141	.108	.155	.122	.094	.106	.084	.065	.061	.049	.038	.020	.016	.012	
3.0	.173	.124	.085	.148	.107	.073	.102	.074	.052	.059	.043	.030	.019	.014	.010	
4.0	.165	.110	.069	.142	.095	.060	.097	.067	.042	.056	.039	.025	.018	.013	.008	
5.0	.158	.100	.057	.135	.087	.050	.093	.060	.035	.054	.036	.021	.017	.012	.007	
6.0	.151	.092	.049	.129	.079	.043	.089	.056	.030	.052	.033	.018	.017	.011	.006	
7.0	.144	.085	.043	.124	.073	.038	.086	.052	.027	.050	.030	.016	.016	.010	.005	
8.0	.137	.079	.039	.118	.069	.034	.082	.048	.024	.048	.028	.014	.015	.009	.005	
9.0	.131	.074	.035	.113	.064	.031	.078	.045	.022	.046	.027	.013	.015	.009	.004	
10.0	.126	.070	.032	.109	.061	.028	.075	.043	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2017-12-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm										
NAME: R8035-12PDM					TYPE:R8035-12PDM			WEIGHT:		
SPEC.:4FT					DIM.: 4FT			SERIAL No.:1		
MFR.: BLUEVISION					SUR.:1220*32			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	19.9	21.4	20.2	21.6	21.8	20.0	21.5	20.3	21.7	22.0
3H	21.3	22.7	21.6	22.9	23.2	21.5	22.8	21.8	23.1	23.3
4H	21.9	23.2	22.2	23.5	23.7	22.0	23.3	22.3	23.6	23.9
6H	22.3	23.5	22.6	23.8	24.1	22.4	23.6	22.7	23.9	24.2
8H	22.4	23.6	22.8	23.9	24.2	22.5	23.7	22.8	24.0	24.3
12H	22.5	23.6	22.9	23.9	24.3	22.5	23.7	22.9	24.0	24.3
4H 2H	20.5	21.8	20.8	22.1	22.3	20.6	21.9	20.9	22.2	22.4
3H	22.1	23.2	22.5	23.5	23.9	22.2	23.3	22.6	23.7	24.0
4H	22.8	23.8	23.2	24.2	24.5	22.9	23.9	23.3	24.3	24.6
6H	23.3	24.2	23.7	24.6	25.0	23.4	24.3	23.8	24.7	25.0
8H	23.5	24.3	23.9	24.7	25.1	23.5	24.4	23.9	24.8	25.2
12H	23.6	24.4	24.0	24.8	25.2	23.6	24.4	24.0	24.8	25.2
8H 4H	23.0	23.9	23.5	24.3	24.7	23.1	24.0	23.6	24.4	24.8
6H	23.7	24.4	24.2	24.8	25.3	23.7	24.4	24.2	24.9	25.3
8H	23.9	24.6	24.4	25.0	25.5	24.0	24.6	24.4	25.0	25.5
12H	24.1	24.7	24.6	25.1	25.7	24.1	24.6	24.6	25.1	25.6
12H 4H	23.0	23.8	23.5	24.2	24.7	23.1	23.9	23.6	24.3	24.7
6H	23.7	24.4	24.2	24.8	25.3	23.8	24.4	24.3	24.9	25.3
8H	24.0	24.6	24.5	25.0	25.5	24.0	24.6	24.5	25.0	25.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 2945 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.8$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	Shielding Angle:

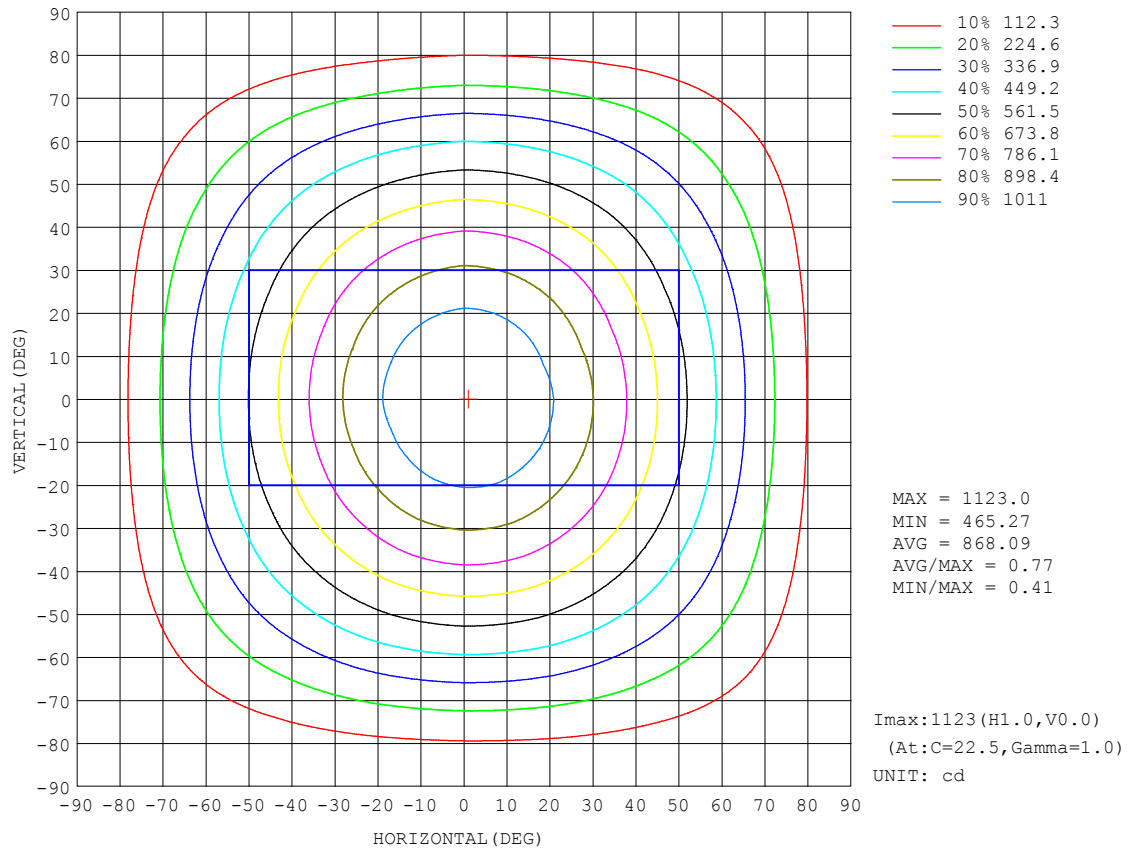
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	58	47	40	56	46	40	33
0.80	68	57	50	67	57	50	65	56	49	42
1.00	77	66	59	75	65	58	73	66	58	51
1.25	84	73	66	82	73	66	79	71	65	58
1.50	89	79	72	87	78	72	84	76	70	63
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	92	86	97	90	85	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	83
5.00	109	104	100	106	102	98	101	98	95	86
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:KEVINLI
Test Date:2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	Shielding Angle:

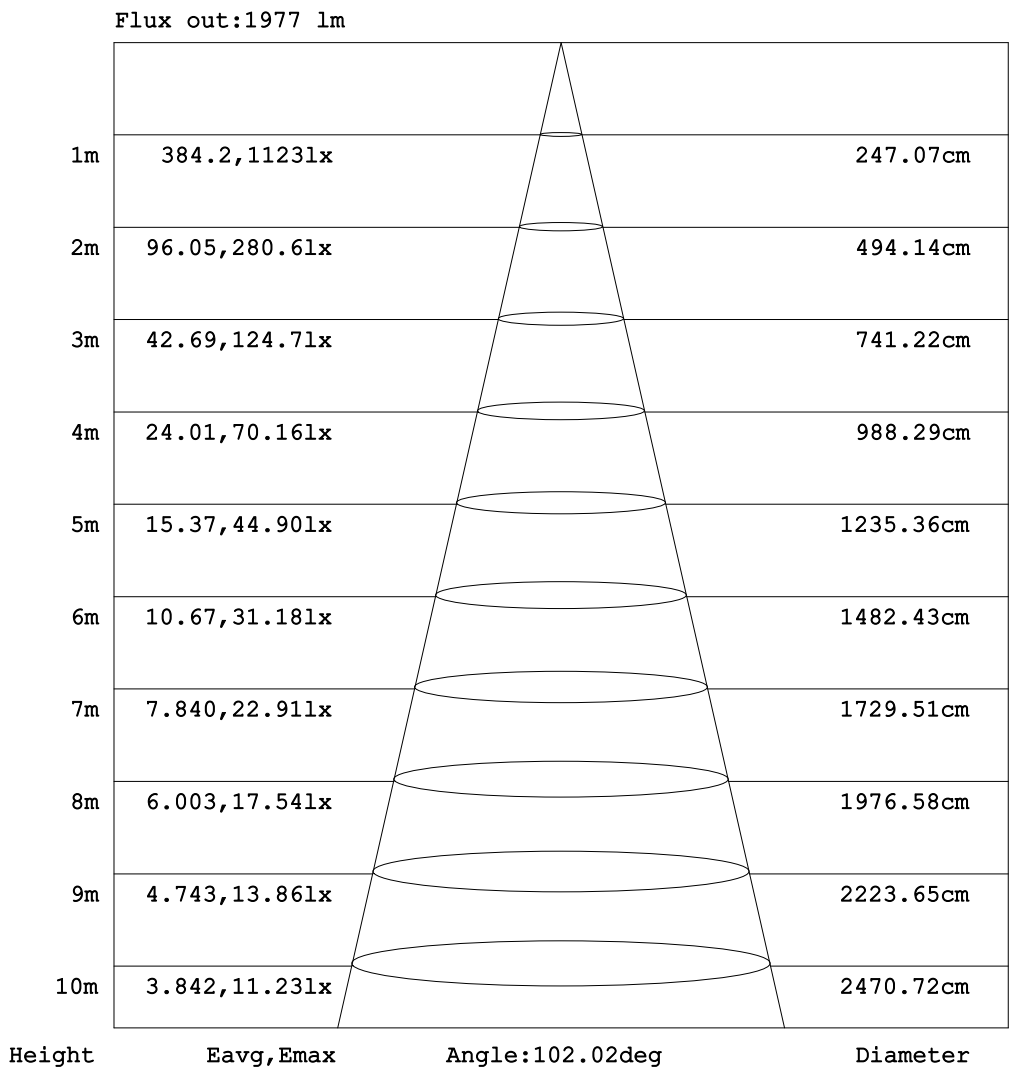


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	Shielding Angle:



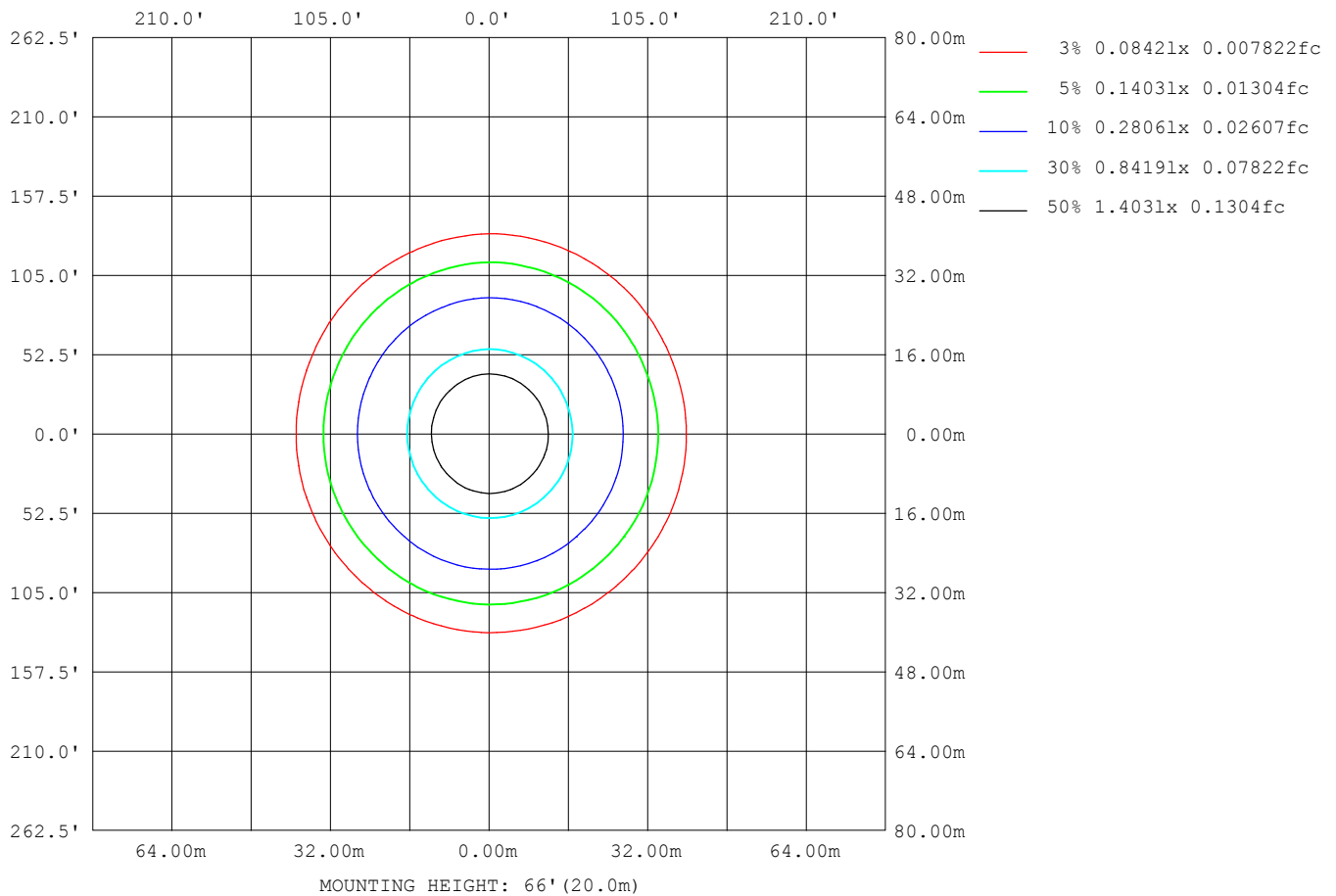
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: KEVINLI
 Test Date: 2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 7.310m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:KEVINLI
 Test Date:2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.310m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm		
NAME: R8035-12PDM	TYPE:R8035-12PDM	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:1
MFR.: BLUEVISION	SUR.:1220*32	Shielding Angle:

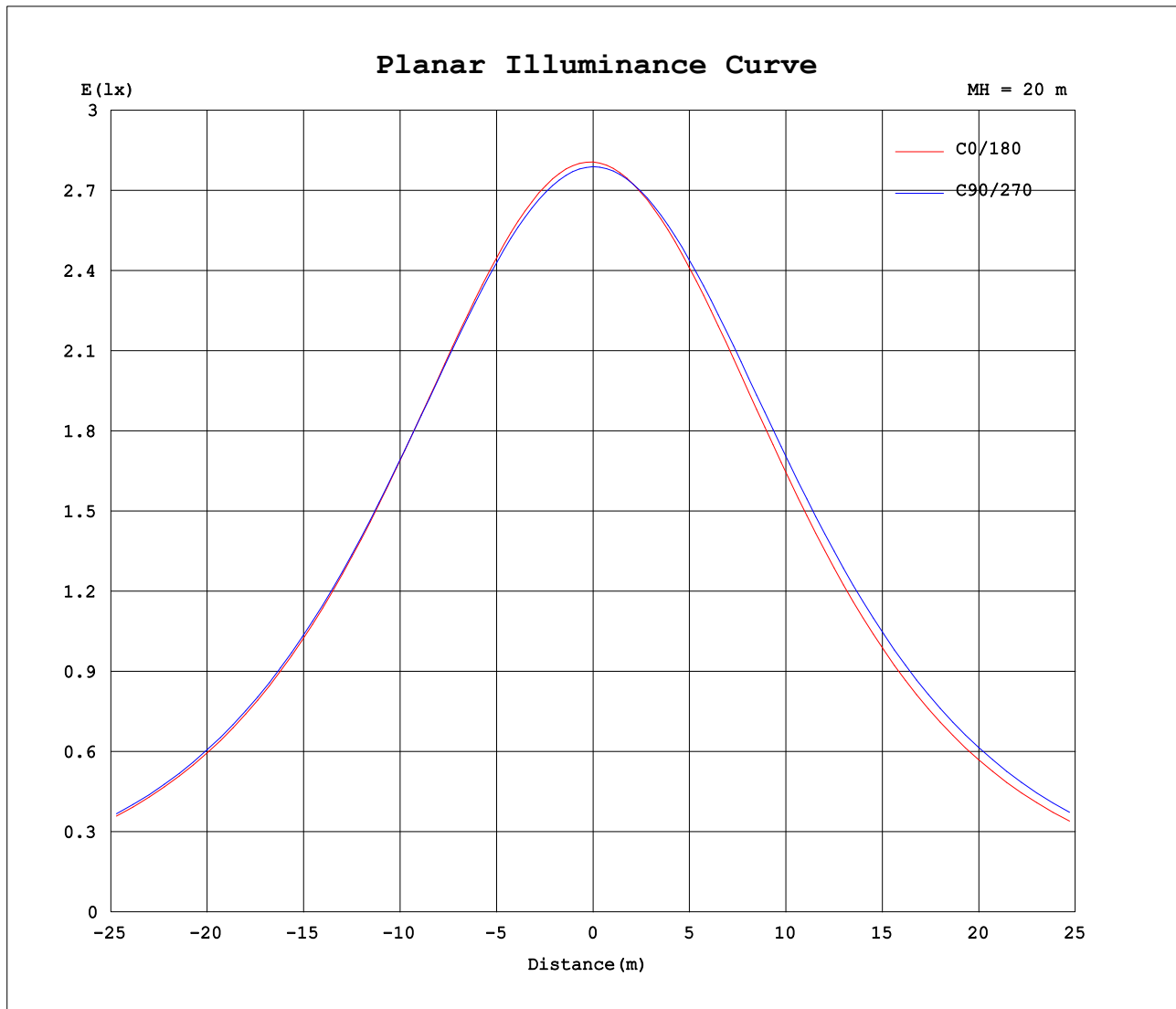
AvgL	cd/m2
L_0~180 (65) av	20080
L_0~180 (75) av	16862
L_0~180 (85) av	11612
L_90~270 (65) av	21870
L_90~270 (75) av	18598
L_90~270 (85) av	13194
L_45 (65) av	20857
L_45 (75) av	17521
L_45 (85) av	12143

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2017-12-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: KEVINLI
Test Date: 2017-12-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.85V I:0.1480A P:31.430W PF:0.9659 Freq:49.99Hz Lamp Flux:2945.37x1 lm																	
NAME: R8035-12PDM									TYPE:R8035-12PDM						WEIGHT:		
SPEC.: 4FT									DIM.: 4FT						SERIAL No.:1		
MFR.: BLUEVISION									SUR.:1220*32						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	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117			
5	1112	1113	1112	1111	1110	1108	1106	1106	1105	1105	1107	1109	1111	1112	1113	1112			
10	1093	1094	1093	1093	1090	1087	1083	1082	1080	1081	1085	1089	1093	1094	1094	1092			
15	1059	1061	1061	1062	1059	1054	1048	1045	1043	1044	1051	1057	1063	1064	1063	1060			
20	1014	1016	1017	1020	1017	1011	1002	997	993	996	1005	1013	1023	1023	1021	1015			
25	959	962	964	968	965	957	946	940	935	938	949	961	972	971	968	960			
30	895	898	902	907	905	896	883	874	869	872	886	899	913	911	907	897			
35	825	828	833	840	838	828	813	803	797	801	816	832	846	844	838	827			
40	749	754	759	767	765	755	738	728	720	725	742	758	774	772	765	752			
45	671	675	681	690	688	678	660	649	641	646	664	681	697	694	687	674			
50	590	594	600	609	607	597	579	568	561	565	583	600	617	614	606	593			
55	508	512	517	526	524	514	497	486	479	483	501	517	534	531	524	510			
60	425	429	433	441	439	430	413	403	397	400	417	433	449	446	439	427			
65	342	345	348	355	353	344	329	321	315	317	333	347	362	360	355	344			
70	260	262	263	269	267	259	246	239	234	236	249	261	276	273	270	261			
75	181	182	181	184	182	176	165	161	157	157	168	178	190	189	187	181			
80	109	109	106	106	104	99.7	92.8	90.5	87.1	87.2	94.8	101	112	111	111	107			
85	47.3	47.3	44.8	43.7	41.4	39.3	34.9	33.4	31.0	30.8	36.0	40.5	47.6	47.3	48.1	45.6			
90	5.42	5.48	4.35	3.86	3.23	3.25	3.24	3.27	2.94	2.98	3.06	3.07	3.66	3.83	4.79	4.43			
95	3.20	3.19	3.26	3.44	3.50	3.52	3.40	3.33	2.99	3.03	3.13	3.12	3.14	3.13	3.02	2.89			
100	3.56	3.56	3.64	3.82	3.92	3.93	3.80	3.72	3.27	3.29	3.42	3.50	3.55	3.50	3.35	3.21			
105	3.98	3.97	4.05	4.26	4.39	4.38	4.26	4.16	3.66	3.69	3.82	3.91	4.00	3.83	3.73	3.57			
110	4.44	4.41	4.50	4.70	4.87	4.85	4.74	4.63	4.07	4.10	4.25	4.37	4.45	4.31	4.14	3.98			
115	4.93	4.89	4.97	5.16	5.36	5.31	5.22	5.13	4.53	4.54	4.70	4.80	4.92	4.75	4.56	4.40			
120	5.43	5.39	5.45	5.64	5.86	5.80	5.74	5.67	5.01	5.01	5.15	5.23	5.37	5.11	4.98	4.85			
125	5.99	5.95	5.99	6.15	6.40	6.34	6.29	6.25	5.51	5.52	5.65	5.70	5.85	5.57	5.46	5.34			
130	6.57	6.54	6.56	6.68	6.95	6.89	6.86	6.84	6.04	6.07	6.17	6.20	6.34	6.05	5.92	5.87			
135	7.15	7.12	7.10	7.22	7.48	7.44	7.40	7.42	6.60	6.62	6.70	6.71	6.84	6.58	6.44	6.42			
140	7.72	7.70	7.64	7.74	7.98	7.97	7.93	7.95	7.18	7.18	7.23	7.26	7.34	7.09	6.99	6.99			
145	8.24	8.26	8.15	8.23	8.45	8.48	8.43	8.47	7.75	7.74	7.78	7.80	7.89	7.62	7.53	7.58			
150	8.76	8.79	8.64	8.71	8.91	8.96	8.89	8.95	8.32	8.29	8.32	8.35	8.41	8.18	8.08	8.14			
155	9.26	9.30	9.11	9.16	9.35	9.41	9.37	9.40	8.87	8.81	8.86	8.86	8.91	8.68	8.63	8.70			
160	9.77	9.80	9.56	9.59	9.77	9.84	9.81	9.84	9.43	9.32	9.37	9.35	9.38	9.16	9.15	9.28			
165	10.3	10.2	9.98	9.98	10.1	10.2	10.2	10.2	10.00	9.83	9.84	9.81	9.84	9.64	9.64	9.80			
170	10.6	10.6	10.3	10.3	10.4	10.5	10.5	10.5	10.5	10.3	10.2	10.2	10.2	10.1	10.1	10.2			
175	10.9	10.8	10.6	10.6	10.6	10.7	10.7	10.8	10.9	10.6	10.6	10.5	10.5	10.4	10.5	10.6			
180	11.1	10.9	10.7	10.7	10.7	10.7	10.7	10.8	11.1	10.8	10.8	10.7	10.7	10.7	10.7	10.8			

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