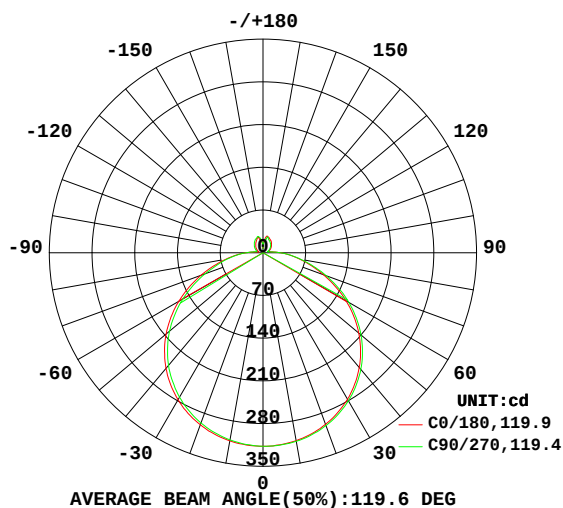


LUMINAIRE PHOTOMETRIC TEST REPORT

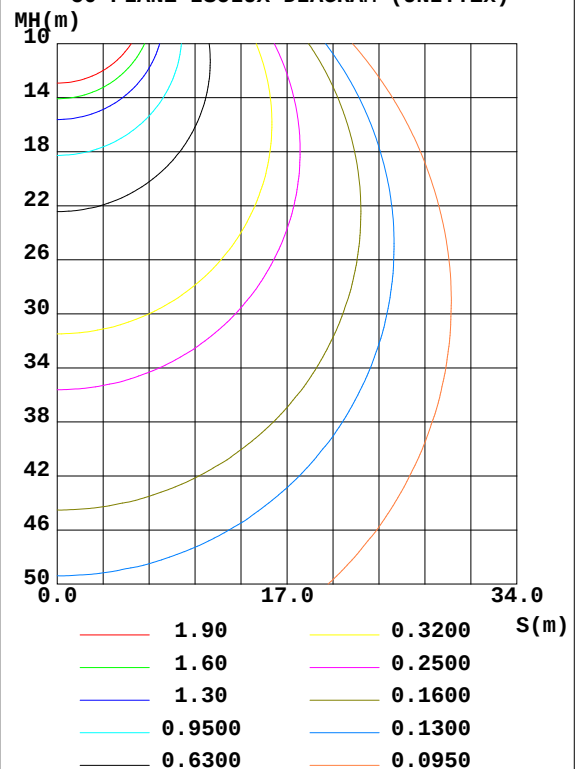
Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.65 lm/W			
MODEL	PSZ2S220516006-10	I _{max} (cd)	317.2	S/MH(C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1122.1	η UP, DN(C0-180)	4.7, 44.9
NOMINAL FLUX(lm)	1122.11	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.5, 45.9
LAMPS INSIDE	1	η up(%)	9.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	90.7	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:25.6DEG
Operators:Carl
Test Date:2022-05-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [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	312.9	311.6	311.4	311.8	312.6	313.2	313.7	313.2	0- 10	30.05	30.05	2.68, 2.68
20	300.1	297.8	296.9	297.8	299.3	300.9	301.5	300.6	10- 20	86.75	116.8	10.4, 10.4
30	278.3	275.1	273.5	274.9	277.0	279.2	280.1	278.8	20- 30	133.5	250.3	22.3, 22.3
40	247.4	243.2	240.9	242.9	245.3	248.4	249.3	247.7	30- 40	164.3	414.6	36.9, 36.9
50	207.3	202.7	199.9	202.2	204.9	208.6	209.7	207.6	40- 50	174.7	589.3	52.5, 52.5
60	159.5	154.8	151.8	154.4	157.1	161.3	162.3	159.8	50- 60	162.8	752.1	67, 67
70	108.1	103.7	100.9	103.7	105.5	109.3	110.2	107.7	60- 70	130.5	882.7	78.7, 78.7
80	62.26	59.68	59.39	61.39	61.33	62.92	63.49	61.80	70- 80	87.38	970.1	86.4, 86.4
90	28.10	27.34	28.13	29.62	28.88	29.09	28.97	27.71	80- 90	48.15	1018	90.7, 90.7
100	8.632	9.317	11.06	12.10	10.70	9.866	9.334	9.046	90-100	19.21	1037	92.5, 92.5
110	8.973	10.13	12.20	12.37	11.40	9.657	9.410	9.830	100-110	9.802	1047	93.3, 93.3
120	12.22	13.75	15.41	15.11	14.88	13.24	13.00	13.25	110-120	12.08	1059	94.4, 94.4
130	15.50	17.54	18.73	17.81	18.28	16.49	16.30	16.59	120-130	13.89	1073	95.6, 95.6
140	18.60	21.33	22.08	20.84	21.73	19.64	19.43	19.75	130-140	14.51	1088	96.9, 96.9
150	22.20	24.86	25.39	23.75	24.62	23.37	22.26	23.45	140-150	13.84	1102	98.2, 98.2
160	26.19	27.57	27.81	25.84	27.23	25.86	25.79	26.40	150-160	11.46	1113	99.2, 99.2
170	22.11	23.81	23.68	23.09	25.80	24.79	22.69	24.83	160-170	7.256	1120	99.8, 99.8
180	7.107	5.589	6.257	7.416	8.380	9.418	9.466	9.380	170-180	1.862	1122	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 502.01 lm

%lum = 44.7%

%lamp = 44.7%

Conical surface Flux(120deg): 752.13 lm

%lum = 67.0%

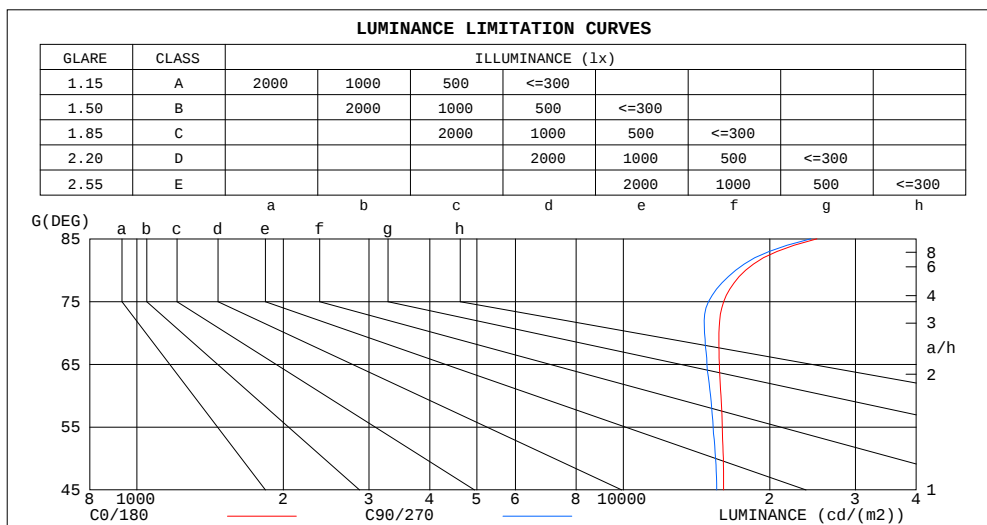
%lamp = 67.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.6DEG
 Operators: Carl
 Test Date: 2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 51%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	24995	24289
80	17844	17019
75	16083	14962
70	15723	14684
65	15759	14851
60	15879	15110
55	15978	15297
50	16053	15473
45	16065	15559

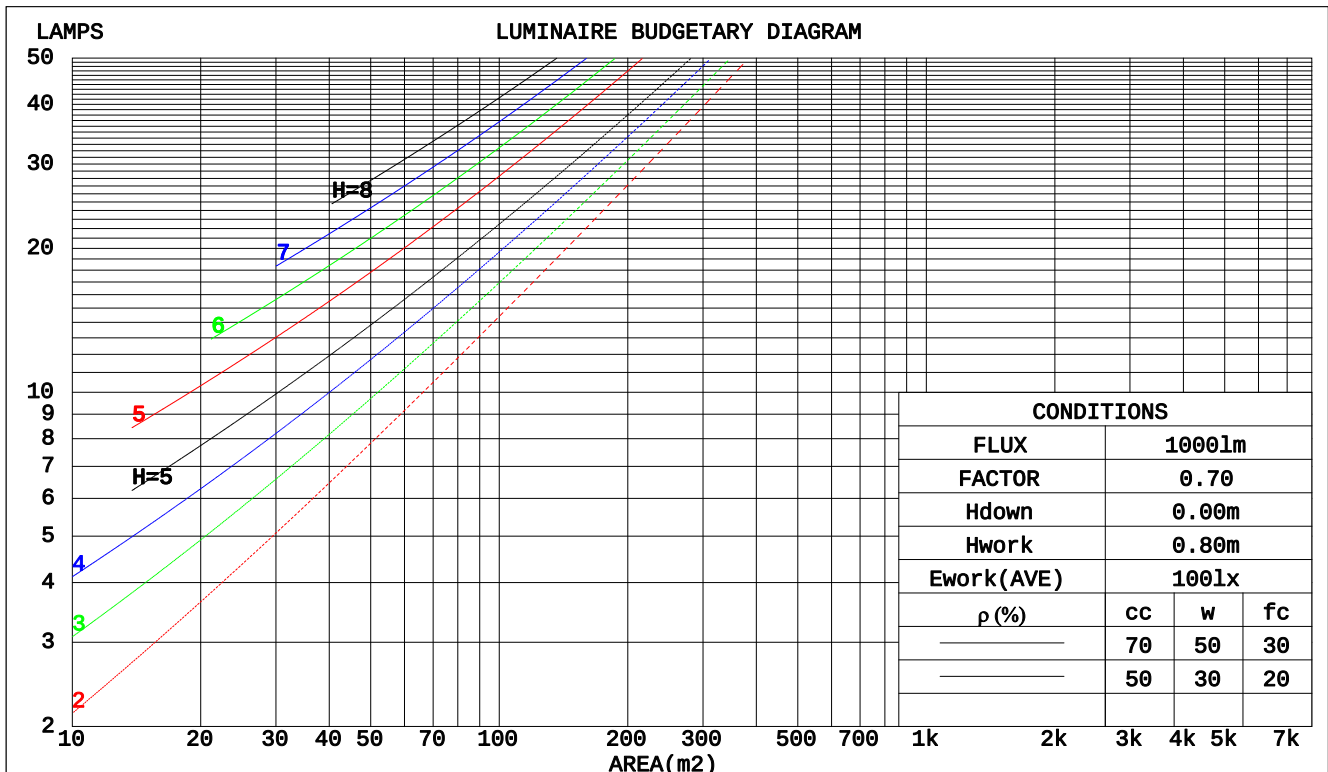
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:Carl
Test Date:2022-05-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.94	.94	.94	.91
1.0	1.00	.95	.91	.97	.93	.89	.91	.87	.84	.85	.83	.80	.80	.78	.76	.73
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.68	.74	.69	.65	.70	.66	.63	.60
3.0	.75	.67	.60	.73	.65	.59	.69	.62	.57	.65	.59	.55	.61	.56	.53	.50
4.0	.67	.58	.51	.65	.56	.50	.61	.54	.48	.57	.51	.46	.54	.49	.45	.42
5.0	.59	.50	.43	.58	.49	.43	.54	.47	.41	.51	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.38	.52	.43	.37	.49	.42	.36	.46	.40	.35	.44	.38	.34	.32
7.0	.48	.39	.33	.47	.38	.33	.44	.37	.32	.42	.36	.31	.40	.34	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.24	.36	.28	.23	.34	.28	.23	.33	.27	.22	.31	.26	.22	.20



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.6DEG
 Operators: Carl
 Test Date: 2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 51%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm								
NAME: ASD-LFMMR-11D16CC-NK 5000K				TYPE:N/A			WEIGHT:N/A	
SPEC.:N/A				DIM.: N/A			SERIAL No.:N/A	
MFR.: ASD Lighting corp				SUR.:N/A			Shielding Angle:N/A	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.341	.194	.061	.331	.189	.060	.312	.179	.057	.295	.170	.055	.279	.162	.052	
2.0	.308	.169	.052	.300	.165	.051	.283	.157	.049	.267	.150	.047	.253	.143	.045	
3.0	.280	.149	.045	.272	.146	.044	.257	.139	.042	.243	.133	.041	.231	.128	.040	
4.0	.256	.133	.039	.249	.130	.038	.235	.125	.037	.223	.120	.036	.211	.115	.035	
5.0	.235	.120	.035	.228	.117	.034	.216	.113	.033	.205	.108	.032	.194	.104	.031	
6.0	.217	.109	.031	.211	.107	.031	.200	.102	.030	.190	.099	.029	.180	.095	.028	
7.0	.201	.099	.028	.196	.098	.028	.186	.094	.027	.176	.090	.026	.168	.087	.026	
8.0	.187	.091	.026	.182	.090	.025	.173	.087	.025	.165	.083	.024	.157	.080	.023	
9.0	.175	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.147	.075	.022	
10.0	.164	.079	.022	.160	.077	.022	.153	.075	.021	.145	.072	.021	.139	.070	.020	

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.261	.261	.261	.223	.223	.223	.152	.152	.152	.087	.087	.087	.028	.028	.028	
1.0	.254	.227	.203	.217	.195	.175	.148	.134	.121	.085	.078	.070	.027	.025	.023	
2.0	.246	.203	.168	.211	.175	.145	.144	.121	.101	.083	.070	.059	.027	.023	.019	
3.0	.238	.186	.145	.204	.161	.126	.140	.112	.088	.081	.065	.052	.026	.021	.017	
4.0	.231	.173	.130	.198	.150	.113	.136	.104	.079	.079	.061	.047	.025	.020	.015	
5.0	.223	.163	.119	.192	.141	.104	.132	.099	.073	.077	.058	.043	.025	.019	.014	
6.0	.216	.155	.111	.186	.134	.097	.128	.094	.069	.074	.055	.041	.024	.018	.013	
7.0	.209	.148	.106	.180	.129	.092	.124	.090	.065	.072	.053	.039	.023	.017	.013	
8.0	.203	.143	.102	.174	.124	.089	.121	.087	.063	.070	.051	.037	.023	.017	.012	
9.0	.197	.138	.098	.169	.120	.086	.117	.084	.061	.068	.050	.036	.022	.016	.012	
10.0	.191	.134	.096	.164	.116	.084	.114	.082	.059	.067	.048	.035	.022	.016	.012	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:Carl
Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm											
NAME: ASD-LFMMR-11D16CC-NK 5000K					TYPE:N/A			WEIGHT:N/A			
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A			
MFR.: ASD Lighting corp					SUR.:N/A			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	21.9	23.4	22.3	23.7	24.1	21.7	23.2	22.1	23.5	23.9	
	3H	23.7	25.0	24.1	25.4	25.8	23.4	24.7	23.8	25.1	25.5
	4H	24.5	25.7	24.9	26.1	26.6	24.2	25.4	24.6	25.8	26.3
	6H	25.2	26.4	25.7	26.8	27.3	24.9	26.1	25.4	26.5	27.0
	8H	25.6	26.7	26.1	27.2	27.7	25.3	26.4	25.7	26.9	27.3
	12H	26.0	27.1	26.5	27.5	28.0	25.7	26.8	26.2	27.2	27.7
4H	2H	22.5	23.8	23.0	24.2	24.7	22.4	23.6	22.8	24.1	24.5
	3H	24.5	25.6	24.9	26.0	26.5	24.2	25.3	24.7	25.8	26.3
	4H	25.4	26.4	25.9	26.9	27.4	25.1	26.1	25.6	26.6	27.2
	6H	26.3	27.2	26.9	27.7	28.3	26.0	26.9	26.6	27.5	28.0
	8H	26.8	27.6	27.3	28.1	28.7	26.5	27.3	27.1	27.9	28.5
	12H	27.3	28.0	27.8	28.6	29.2	27.0	27.8	27.6	28.3	28.9
8H	4H	25.7	26.6	26.3	27.1	27.7	25.5	26.3	26.0	26.9	27.4
	6H	26.9	27.6	27.4	28.1	28.7	26.6	27.3	27.2	27.9	28.5
	8H	27.5	28.1	28.1	28.7	29.3	27.2	27.9	27.8	28.4	29.1
	12H	28.1	28.7	28.8	29.3	30.0	27.9	28.5	28.5	29.1	29.7
12H	4H	25.8	26.5	26.3	27.1	27.7	25.5	26.3	26.1	26.9	27.5
	6H	27.0	27.6	27.6	28.2	28.8	26.8	27.4	27.4	28.0	28.6
	8H	27.7	28.2	28.3	28.8	29.5	27.5	28.0	28.1	28.6	29.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117 Corrected 1122 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.4)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:Carl
Test Date:2022-05-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

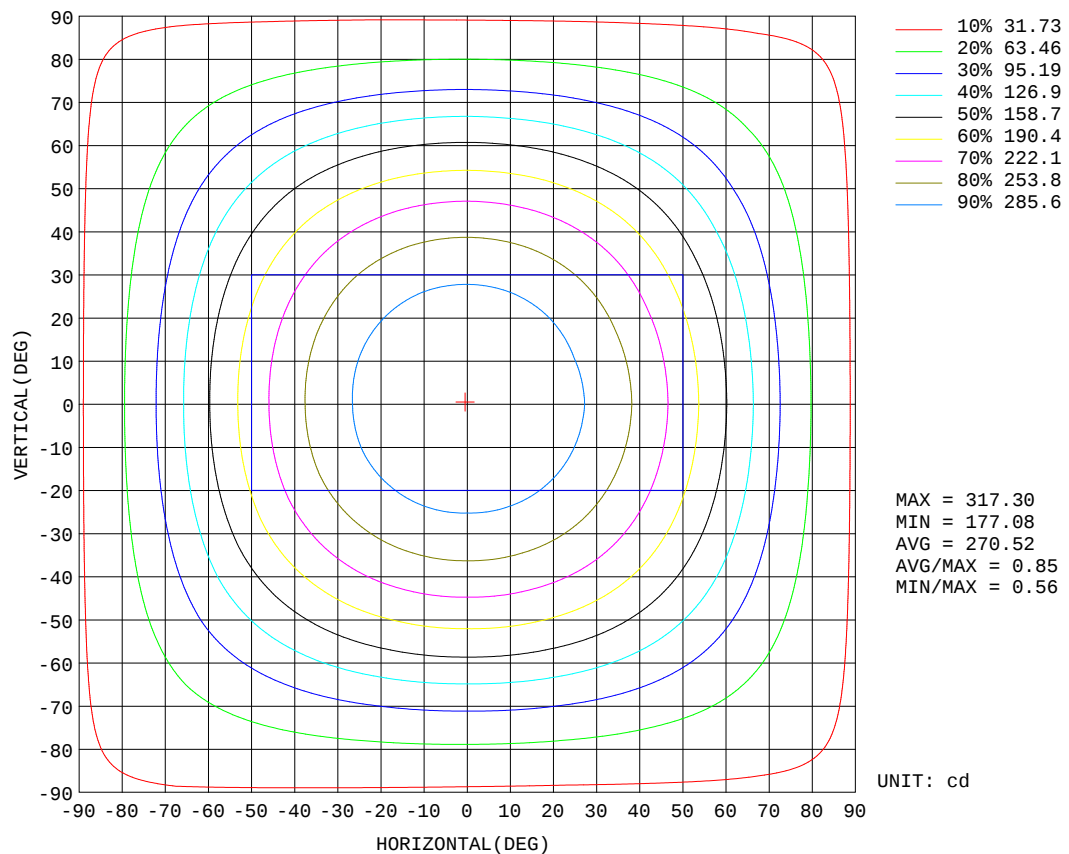
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	50	40	33	27
0.80	63	50	43	61	50	43	59	49	42	34
1.00	71	59	51	69	58	51	66	59	50	42
1.25	78	67	59	76	65	58	72	63	57	48
1.50	83	72	65	81	71	64	76	68	62	53
2.00	90	80	73	87	79	72	83	75	70	60
2.50	94	85	79	91	83	77	86	80	74	64
3.00	98	90	84	95	88	82	89	83	79	67
4.00	102	95	90	99	93	88	93	88	84	72
5.00	105	99	94	101	96	92	95	91	87	75
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:25.6DEG
Operators:Carl
Test Date:2022-05-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

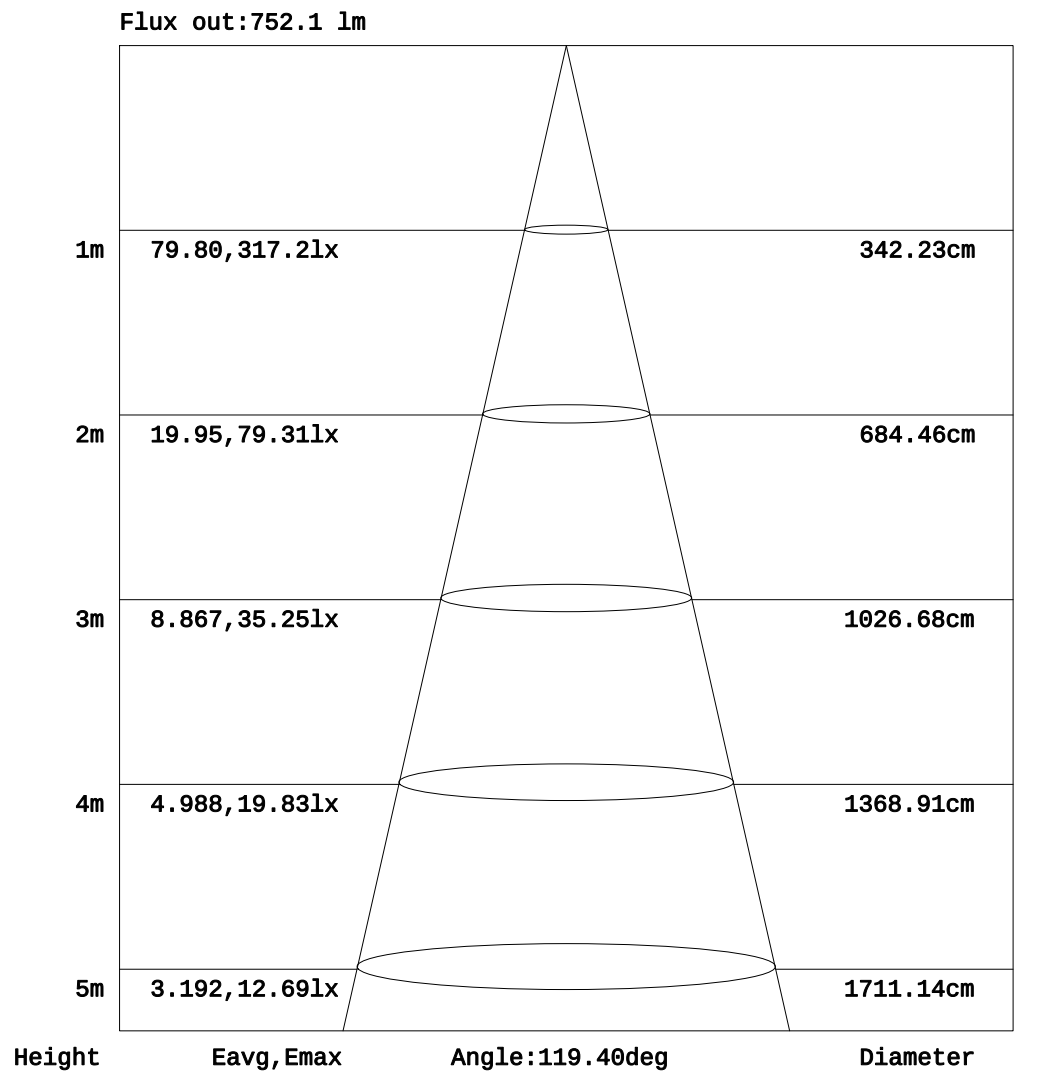


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:Carl
Test Date:2022-05-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



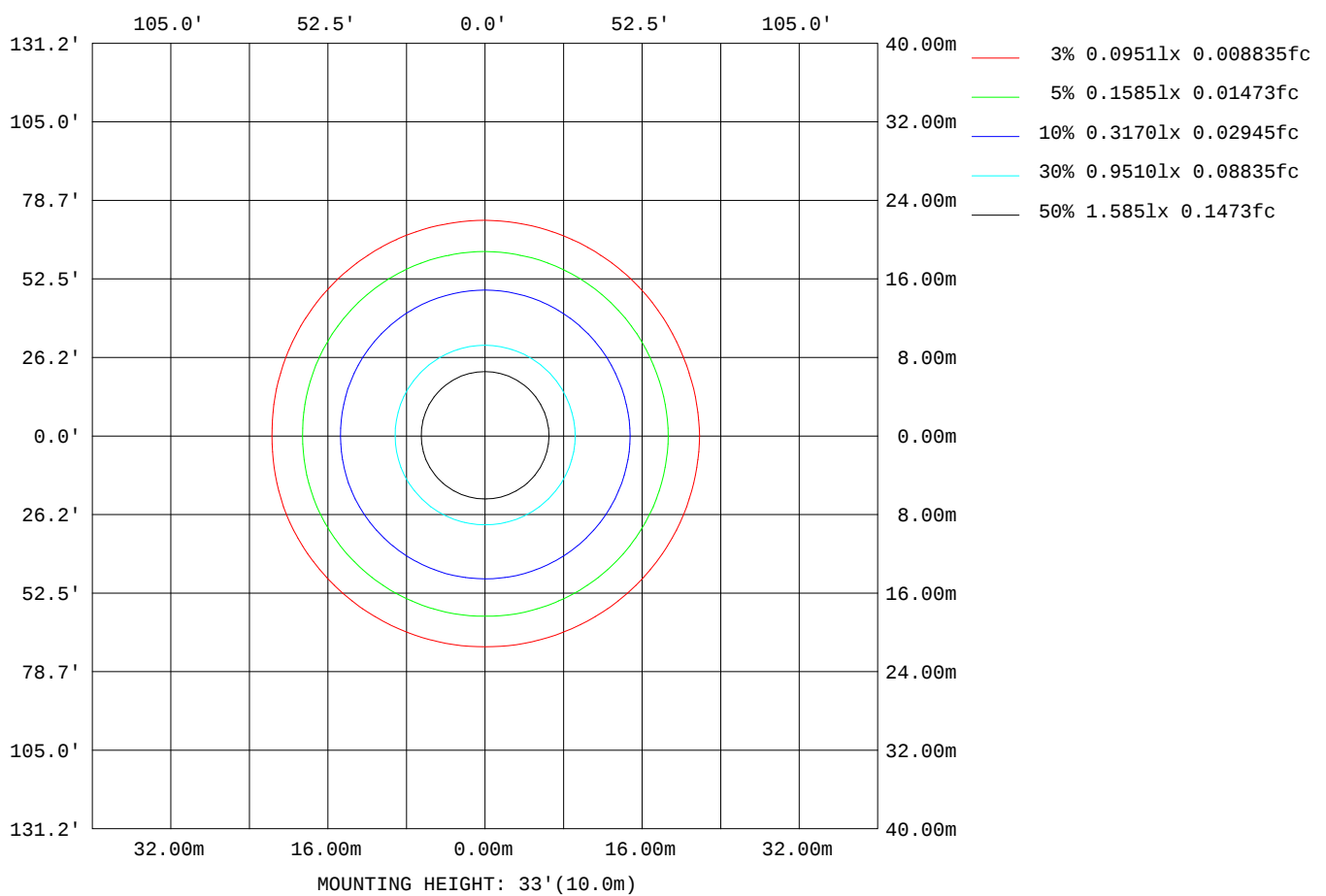
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.6DEG
Operators: Carl
Test Date: 2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 51%
Test Distance: 2.526m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm		
NAME: ASD-LFMMR-11D16CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

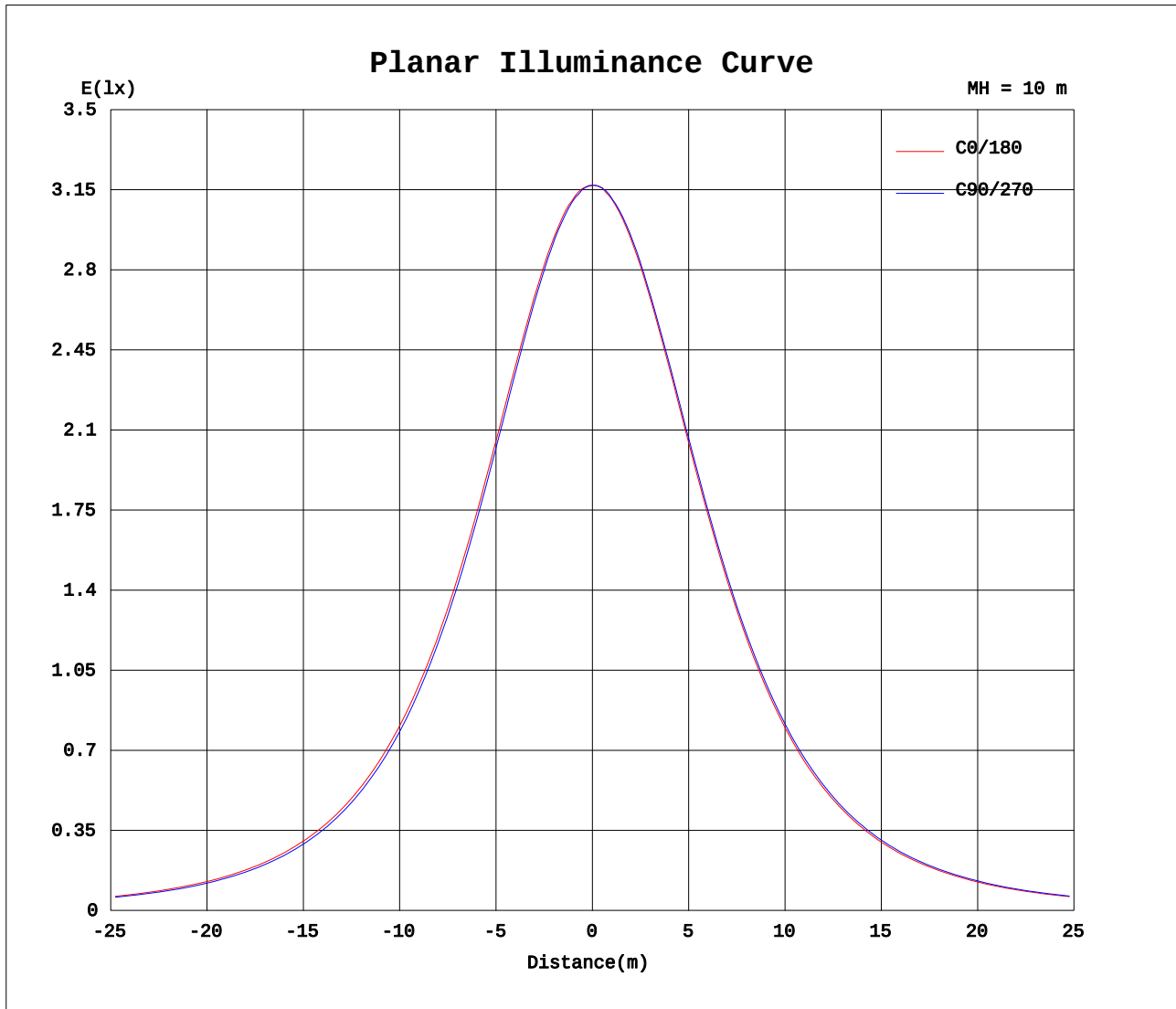
AvgL	cd/m2
L_0~180(65)av	15573
L_0~180(75)av	15906
L_0~180(85)av	25071
L_90~270(65)av	15444
L_90~270(75)av	15694
L_90~270(85)av	24905
L_45(65)av	15507
L_45(75)av	15779
L_45(85)av	24939

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.6DEG
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Test Date:2022-05-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.6DEG
Operators: Carl
Test Date: 2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 51%
Test Distance: 2.526m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1377A P:15.66W PF:0.9474 Lamp Flux:1122.11x1 lm																	
NAME: ASD-LFMMR-11D16CC-NK 5000K									TYPE:N/A						WEIGHT:N/A		
SPEC.:N/A									DIM.: N/A						SERIAL No.:N/A		
MFR.: ASD Lighting corp									SUR.:N/A						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	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317			
5	316	316	315	315	315	315	315	316	316	316	316	316	317	316	316	316			
10	313	312	312	311	311	311	312	312	313	313	313	314	314	314	313	313			
15	308	307	306	305	305	306	306	307	307	308	308	309	309	309	308	308			
20	300	299	298	297	297	297	298	299	299	300	301	302	301	301	301	300			
25	290	289	287	287	286	287	288	289	289	291	291	292	292	292	291	290			
30	278	277	275	274	274	274	275	277	277	278	279	280	280	280	279	278			
35	264	262	260	259	258	259	260	262	262	264	265	266	266	265	264	264			
40	247	245	243	242	241	241	243	245	245	247	248	250	249	249	248	247			
45	228	226	224	222	221	222	224	226	226	228	229	231	231	230	229	227			
50	207	205	203	201	200	200	202	205	205	207	209	210	210	209	208	206			
55	184	182	180	178	176	177	179	182	182	184	186	187	187	186	184	183			
60	160	157	155	153	152	152	154	157	157	159	161	162	162	161	160	158			
65	134	132	129	127	126	127	129	132	131	133	135	136	136	135	133	132			
70	108	106	104	102	101	102	104	106	106	108	109	110	110	109	108	106			
75	83.6	81.7	79.7	78.2	77.8	78.7	80.6	83.0	81.8	83.4	84.6	85.4	85.4	84.7	83.4	82.0			
80	62.3	60.9	59.7	59.3	59.4	60.1	61.4	62.9	61.3	62.3	62.9	63.5	63.5	62.8	61.8	60.7			
85	43.8	42.8	42.3	42.1	42.5	43.4	44.4	45.4	44.0	44.5	44.7	45.0	44.7	44.2	43.4	42.7			
90	28.1	27.5	27.3	27.4	28.1	29.0	29.6	30.2	28.9	29.1	29.1	29.3	29.0	28.4	27.7	27.2			
95	15.8	15.5	15.7	16.2	17.0	17.9	18.3	18.5	17.3	17.2	17.0	17.0	16.5	16.2	15.7	15.3			
100	8.63	8.72	9.32	10.1	11.1	11.9	12.1	11.8	10.7	10.3	9.87	9.65	9.33	9.23	9.05	8.63			
105	7.33	7.59	8.31	9.41	10.6	11.0	11.0	10.6	9.70	8.66	7.88	7.62	7.60	7.81	7.97	7.87			
110	8.97	9.44	10.1	11.1	12.2	12.2	12.4	12.2	11.4	10.4	9.66	9.30	9.41	9.59	9.83	9.74			
115	10.6	11.2	12.0	12.9	13.8	13.6	13.8	13.9	13.2	12.2	11.4	10.9	11.2	11.4	11.6	11.6			
120	12.2	13.0	13.7	14.6	15.4	14.9	15.1	15.5	14.9	13.8	13.2	12.6	13.0	13.2	13.2	13.4			
125	13.9	14.7	15.6	16.4	17.1	16.2	16.4	17.2	16.6	15.6	14.9	14.3	14.7	14.9	14.8	15.1			
130	15.5	16.4	17.5	18.2	18.7	17.5	17.8	18.8	18.3	17.2	16.5	16.0	16.3	16.5	16.6	16.7			
135	17.0	18.1	19.4	20.0	20.2	18.9	19.3	20.4	19.9	19.0	18.1	17.7	17.9	18.0	18.2	18.3			
140	18.6	19.8	21.3	21.7	22.1	20.5	20.8	22.1	21.7	20.7	19.6	19.3	19.4	19.5	19.7	19.8			
145	20.5	21.4	23.0	23.4	23.6	22.0	22.6	23.8	23.4	22.5	21.4	21.0	20.8	21.6	21.4	21.4			
150	22.2	23.1	24.9	25.0	25.4	23.5	23.8	25.4	24.6	23.5	23.4	22.4	22.3	23.5	23.5	22.9			
155	24.1	24.3	25.3	26.6	25.6	25.1	24.9	26.2	25.9	25.3	24.4	23.5	23.3	23.8	25.4	24.2			
160	26.2	25.4	27.6	27.8	27.8	25.8	25.8	24.3	27.2	26.6	25.9	24.4	25.8	22.9	26.4	26.6			
165	24.2	21.6	27.2	28.4	27.2	23.8	24.2	27.0	28.3	28.1	27.4	21.8	26.1	24.4	27.6	27.4			
170	22.1	22.8	23.8	25.2	23.7	23.2	23.1	25.1	25.8	25.8	24.8	22.4	22.7	22.9	24.8	24.9			
175	16.5	16.3	17.5	18.2	17.9	16.8	17.2	18.8	17.8	17.8	17.9	17.7	16.7	17.0	18.1	17.9			
180	7.11	5.71	5.59	6.45	6.26	6.70	7.42	7.29	8.38	8.73	9.42	9.10	9.47	9.47	9.38	9.09			

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