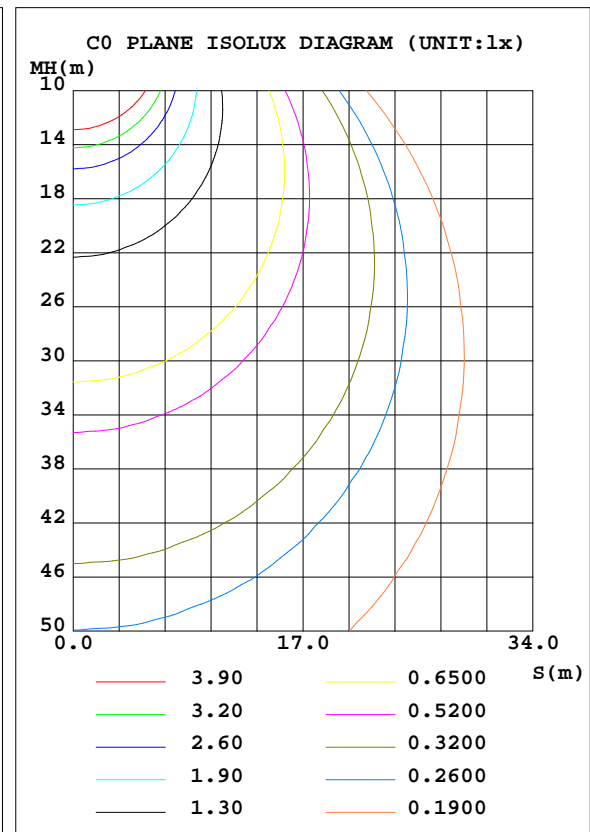
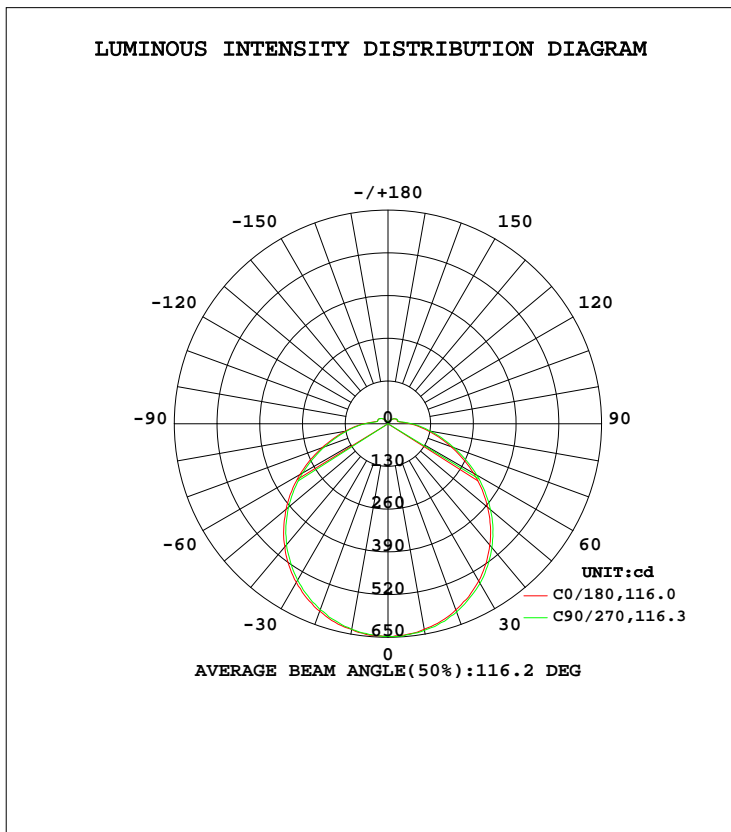


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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: 76,38 lm/W			
MODEL ASD-LFMDR-MV-16D24CC-NK		Imax(cd)	648.7	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1895	$\eta$ UP, DN(C0-180)	4.0,45.7
NOMINAL FLUX(lm)	1895	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	4.0,46.3
LAMPS INSIDE	1	$\eta$ up(%)	8.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	$\eta$ down(%)	92.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	635.8	635.8	635.7	634.7	634.8	637.4	638.4	637.3	0- 10	61.29	61.29	2.78,2.78
20	607.1	606.0	602.4	602.2	603.1	607.8	609.8	609.4	10- 20	176.1	237.3	10.8,10.8
30	557.5	553.7	550.1	550.4	552.3	558.6	560.6	558.8	20- 30	268.6	505.9	22.9,22.9
40	488.3	484.1	480.4	480.8	481.5	489.4	492.1	490.9	30- 40	326.8	832.8	37.7,37.7
50	405.4	399.5	394.9	395.3	396.3	404.3	407.0	406.1	40- 50	343.3	1176	53.3,53.3
60	310.0	304.8	299.7	300.0	300.4	308.3	311.7	310.0	50- 60	316.4	1492	67.6,67.6
70	213.3	209.3	205.4	204.5	204.3	210.9	214.2	212.9	60- 70	254.1	1747	79.1,79.1
80	132.4	130.0	127.0	125.0	123.8	129.2	131.8	131.1	70- 80	176.7	1923	87.1,87.1
90	73.55	72.30	70.16	67.92	67.54	71.21	72.54	72.02	80- 90	106.9	2030	92,92
100	38.53	37.90	36.86	35.24	34.92	36.83	37.14	37.59	90-100	56.02	2086	94.5,94.5
110	33.04	33.73	32.78	31.01	30.08	30.92	31.88	32.35	100-110	34.73	2121	96.1,96.1
120	30.98	31.80	30.77	29.16	28.56	29.32	29.75	30.34	110-120	31.12	2152	97.5,97.5
130	25.02	25.84	24.88	23.66	24.38	24.15	24.12	24.99	120-130	24.72	2177	98.6,98.6
140	18.13	18.27	17.57	17.05	17.09	17.47	16.71	17.45	130-140	16.59	2193	99.4,99.4
150	10.47	10.28	10.37	9.959	9.773	9.915	9.097	9.579	140-150	8.786	2202	99.8,99.8
160	4.893	5.084	6.325	5.524	5.267	5.070	4.770	4.919	150-160	3.480	2206	99.9,99.9
170	2.844	2.400	3.498	3.295	3.012	2.902	2.745	2.553	160-170	1.103	2207	100,100
180	1.032	1.064	1.028	1.049	1.081	1.080	1.078	1.072	170-180	0.2116	2207	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1005.1 lm

%lum = 45.5%

%lamp = 45.5%

Conical surface Flux(120deg): 1492.5 lm

%lum = 67.6%

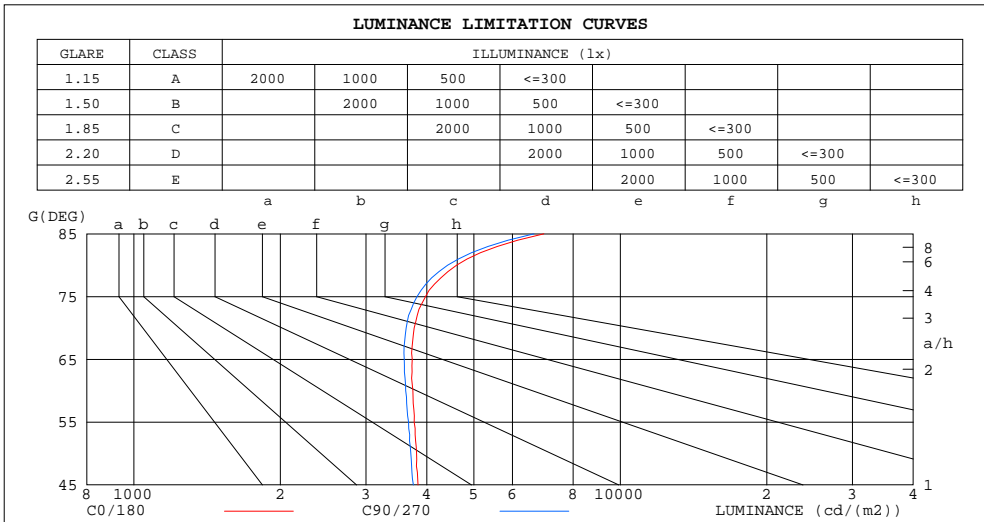
%lamp = 67.6%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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	6960	6641
80	4607	4416
75	3977	3821
70	3769	3627
65	3734	3595
60	3747	3620
55	3770	3670
50	3812	3710
45	3837	3754

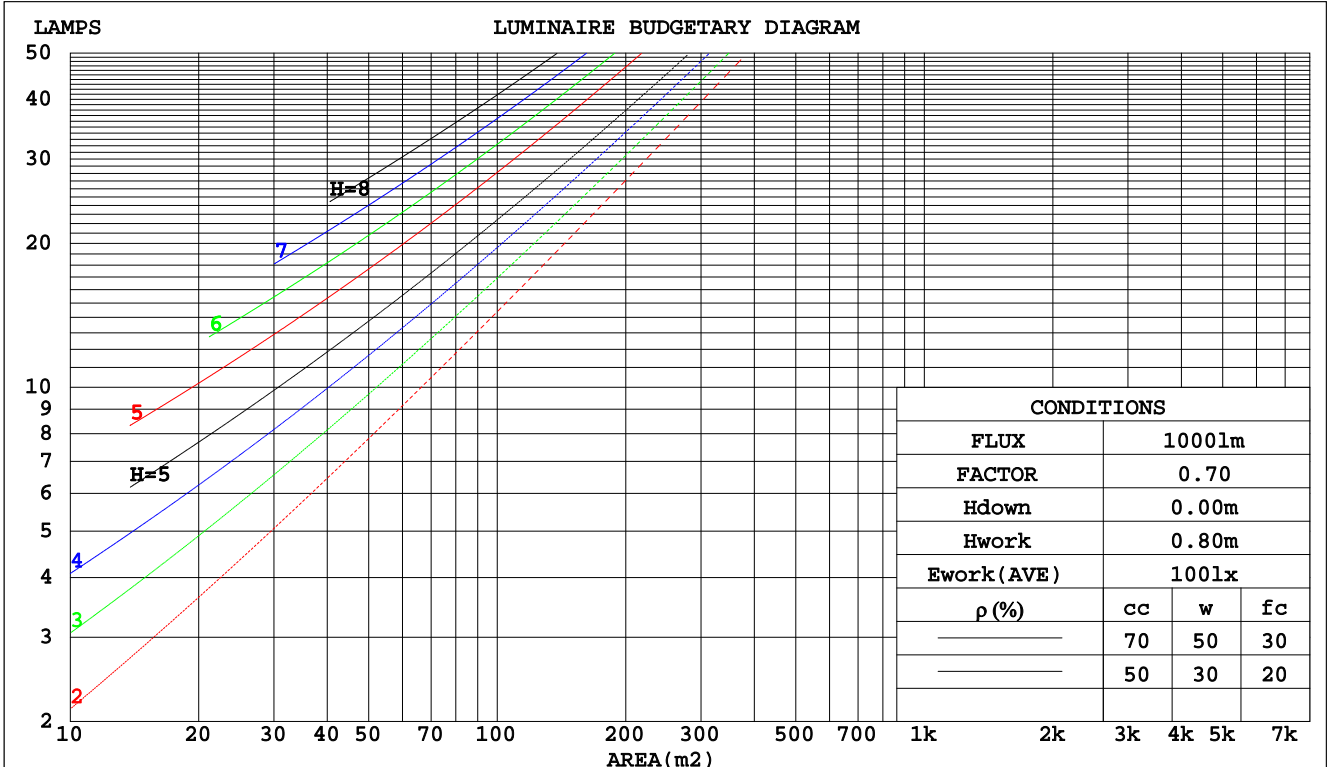
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	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	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.84	.86	.83	.80	.81	.79	.77	.74
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.69	.74	.70	.66	.70	.67	.63	.60
3.0	.76	.67	.60	.73	.65	.59	.69	.62	.57	.65	.60	.55	.62	.57	.53	.50
4.0	.67	.58	.51	.65	.56	.50	.61	.54	.48	.58	.52	.47	.55	.50	.45	.43
5.0	.59	.50	.43	.58	.49	.43	.55	.47	.42	.52	.45	.40	.49	.44	.39	.37
6.0	.53	.44	.38	.52	.43	.37	.49	.42	.36	.47	.40	.35	.45	.39	.34	.32
7.0	.48	.39	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.28	.39	.33	.28	.37	.32	.27	.25
9.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.36	.30	.25	.34	.29	.24	.23
10.0	.37	.29	.24	.36	.29	.24	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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

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	.347	.197	.062	.337	.192	.061	.319	.183	.058	.302	.174	.056	.287	.166	.054	
2.0	.311	.171	.052	.303	.167	.051	.287	.159	.049	.272	.152	.048	.258	.146	.046	
3.0	.282	.150	.045	.274	.147	.044	.260	.141	.043	.246	.135	.041	.234	.130	.040	
4.0	.257	.133	.039	.250	.131	.039	.237	.126	.038	.225	.121	.036	.214	.116	.035	
5.0	.236	.120	.035	.229	.118	.034	.218	.113	.033	.207	.109	.032	.197	.105	.032	
6.0	.217	.109	.031	.212	.107	.031	.201	.103	.030	.191	.099	.029	.182	.096	.028	
7.0	.201	.100	.028	.196	.098	.028	.187	.094	.027	.178	.091	.027	.169	.088	.026	
8.0	.187	.092	.026	.183	.090	.025	.174	.087	.025	.166	.084	.024	.158	.081	.024	
9.0	.175	.085	.024	.171	.083	.023	.163	.081	.023	.156	.078	.022	.149	.075	.022	
10.0	.164	.079	.022	.161	.078	.022	.153	.075	.021	.146	.073	.021	.140	.070	.020	

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	.252	.252	.252	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.244	.217	.193	.209	.187	.166	.143	.128	.115	.082	.074	.067	.026	.024	.022	
2.0	.237	.194	.158	.203	.167	.136	.139	.115	.095	.080	.067	.056	.026	.022	.018	
3.0	.229	.177	.135	.196	.152	.117	.135	.106	.082	.078	.062	.048	.025	.020	.016	
4.0	.221	.164	.120	.190	.141	.104	.131	.099	.073	.076	.058	.043	.024	.019	.014	
5.0	.214	.154	.109	.184	.133	.095	.126	.093	.067	.073	.054	.040	.024	.018	.013	
6.0	.206	.145	.102	.177	.126	.088	.122	.088	.063	.071	.052	.037	.023	.017	.012	
7.0	.199	.139	.096	.172	.120	.084	.119	.084	.059	.069	.050	.035	.022	.016	.012	
8.0	.193	.133	.092	.166	.115	.080	.115	.081	.057	.067	.048	.034	.022	.016	.011	
9.0	.187	.128	.088	.161	.111	.077	.111	.078	.055	.065	.046	.033	.021	.015	.011	
10.0	.181	.124	.086	.156	.108	.075	.108	.076	.053	.063	.045	.032	.020	.015	.011	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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	16.9	18.4	17.3	18.7	19.1	16.8	18.3	17.2	18.6	19.0
3H	18.7	20.0	19.1	20.4	20.8	18.5	19.9	19.0	20.3	20.7
4H	19.6	20.8	20.0	21.2	21.6	19.4	20.7	19.8	21.1	21.5
6H	20.4	21.6	20.9	22.0	22.5	20.2	21.4	20.7	21.8	22.3
8H	20.8	22.0	21.3	22.4	22.9	20.6	21.8	21.1	22.2	22.7
12H	21.3	22.5	21.8	22.9	23.4	21.1	22.2	21.6	22.7	23.2
4H 2H	17.6	18.8	18.0	19.2	19.6	17.5	18.7	17.9	19.1	19.6
3H	19.5	20.6	20.0	21.1	21.6	19.4	20.5	19.9	21.0	21.4
4H	20.5	21.6	21.0	22.0	22.5	20.4	21.4	20.9	21.9	22.4
6H	21.6	22.5	22.1	23.0	23.5	21.4	22.3	21.9	22.8	23.4
8H	22.1	23.0	22.6	23.5	24.0	21.9	22.8	22.5	23.3	23.9
12H	22.7	23.5	23.3	24.0	24.6	22.5	23.3	23.1	23.8	24.4
8H 4H	20.9	21.8	21.4	22.3	22.8	20.8	21.6	21.3	22.2	22.7
6H	22.2	22.9	22.8	23.4	24.0	22.0	22.8	22.6	23.3	23.9
8H	22.9	23.5	23.5	24.1	24.7	22.7	23.4	23.3	23.9	24.6
12H	23.7	24.3	24.3	24.8	25.5	23.5	24.1	24.1	24.7	25.3
12H 4H	21.0	21.8	21.5	22.3	22.9	20.9	21.6	21.4	22.2	22.7
6H	22.3	23.0	22.9	23.5	24.2	22.2	22.9	22.8	23.4	24.0
8H	23.1	23.7	23.7	24.3	24.9	23.0	23.6	23.6	24.1	24.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 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 2207 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.8)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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

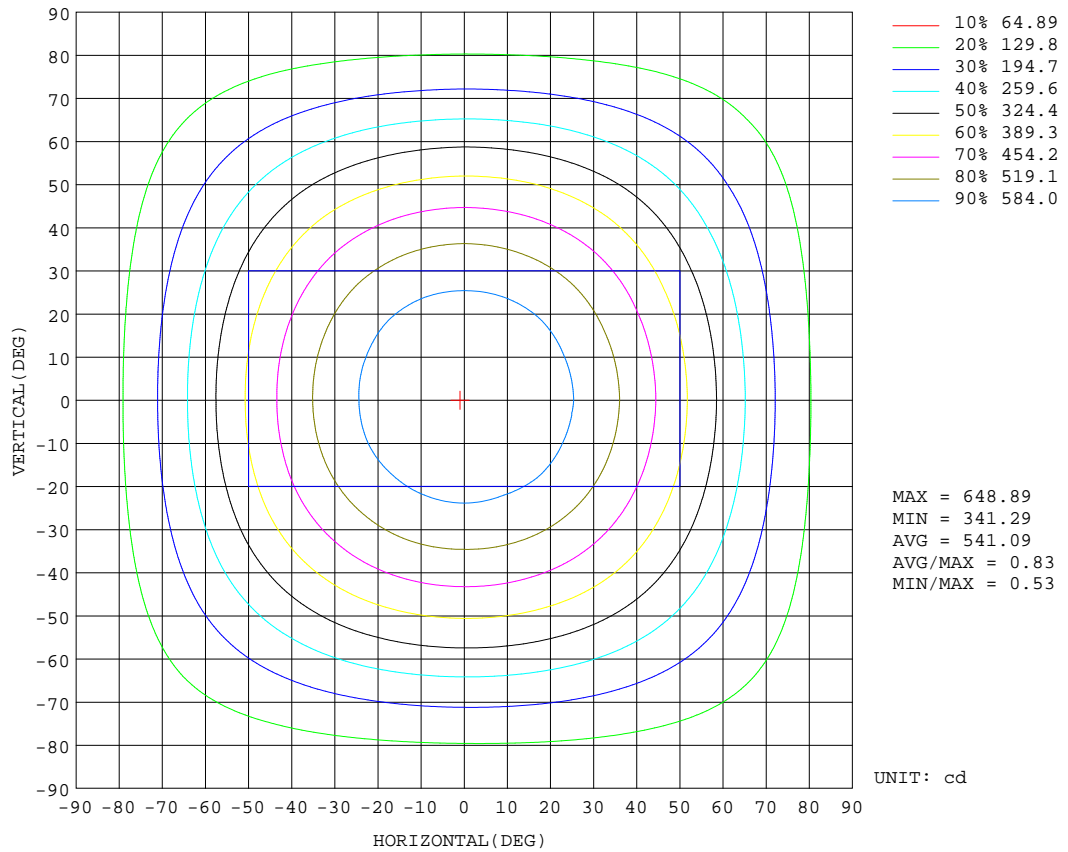
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	34	27
0.80	63	51	43	62	50	43	59	49	42	35
1.00	71	59	51	70	58	51	67	59	50	42
1.25	78	67	59	76	66	58	73	64	57	49
1.50	83	72	64	81	71	64	77	69	62	53
2.00	90	80	73	88	79	72	83	76	70	60
2.50	94	85	78	92	83	77	87	80	75	64
3.00	98	90	83	95	88	82	90	84	79	68
4.00	102	95	90	99	93	88	93	88	84	73
5.00	105	99	94	101	96	92	96	91	88	76
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:25.8DEG  
 Operators:Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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



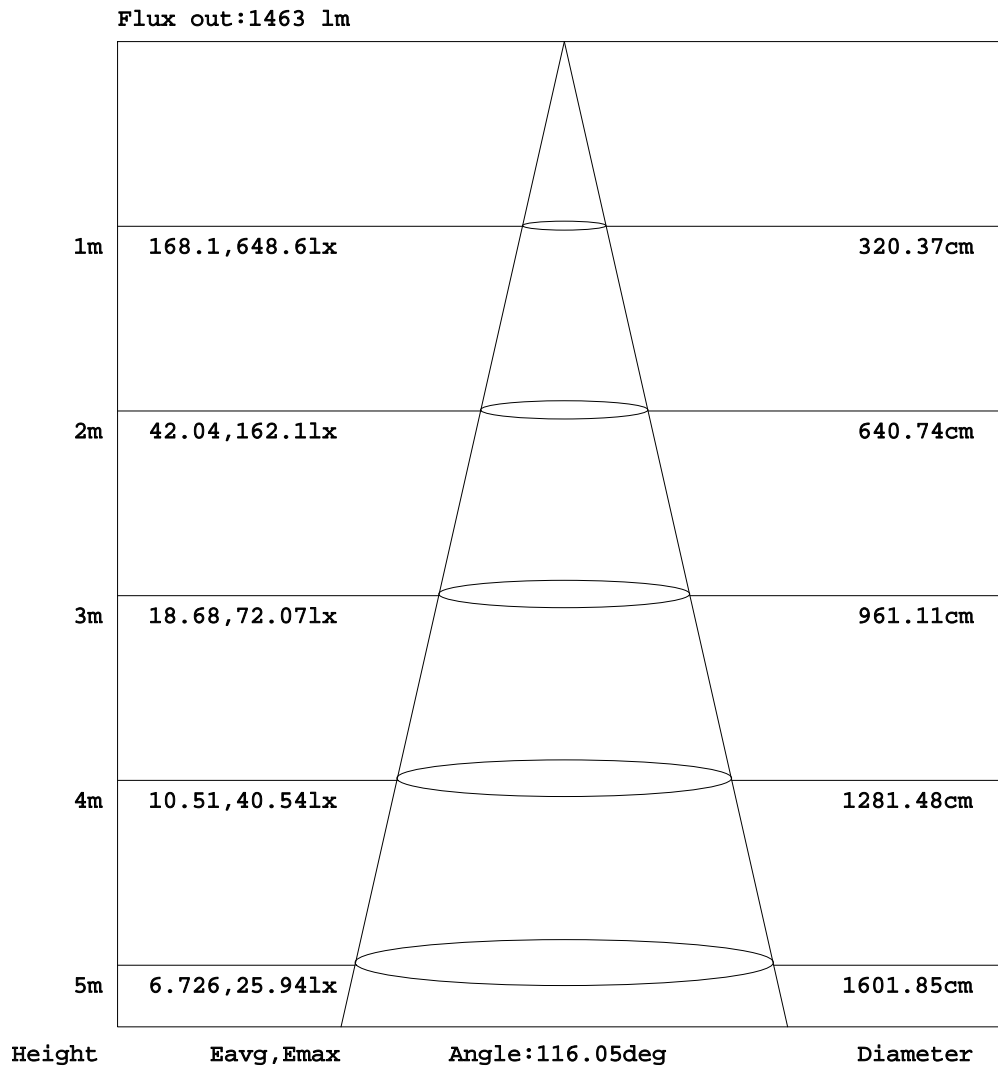
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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



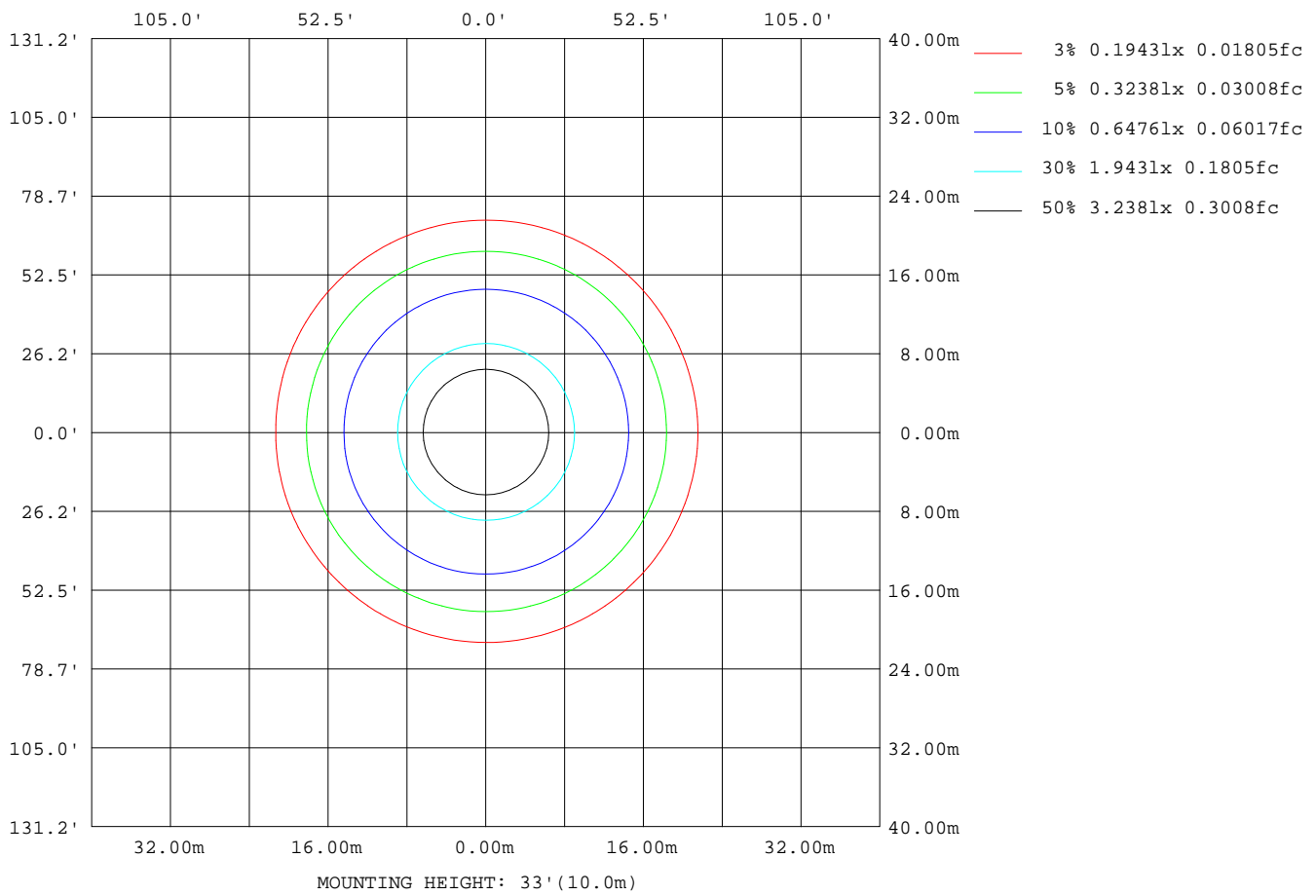
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.8DEG  
 Operators: Bomb  
 Test Date: 2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 42%  
 Test Distance: 2.532m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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:25.8DEG  
 Operators:Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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

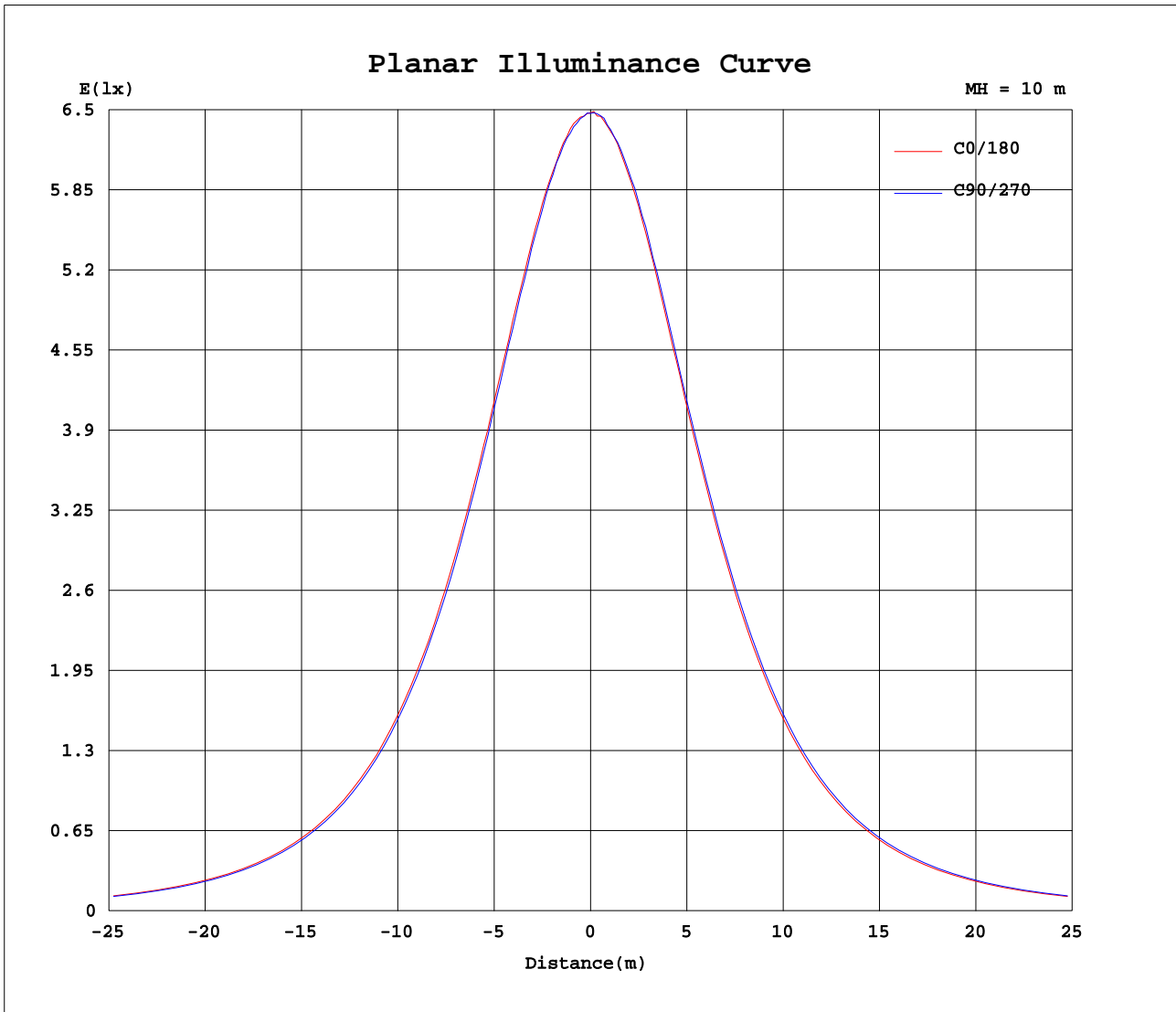
AvgL	cd/m2
L_0~180(65)av	3662
L_0~180(75)av	3875
L_0~180(85)av	6701
L_90~270(65)av	3669
L_90~270(75)av	3899
L_90~270(85)av	6767
L_45(65)av	3664
L_45(75)av	3891
L_45(85)av	6733

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.8DEG  
Operators:Bomb  
Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:42%  
Test Distance:2.532m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.8DEG  
 Operators: Bomb  
 Test Date: 2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 42%  
 Test Distance: 2.532m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.2098A P:24.81W PF:0.9839 Lamp Flux:1895x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 3000K	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	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647			
5	646	646	647	644	644	643	645	644	644	645	646	645	645	644	646	645			
10	636	638	636	635	636	634	635	636	635	636	637	639	638	637	637	638			
15	625	623	624	620	620	618	622	622	622	624	627	625	626	626	625	626			
20	607	606	606	603	602	601	602	604	603	605	608	609	610	609	609	606			
25	585	582	583	579	577	576	579	581	581	583	587	587	586	586	587	585			
30	557	555	554	551	550	548	550	553	552	554	559	559	561	559	559	557			
35	526	523	521	518	516	516	517	519	520	522	526	527	529	528	527	525			
40	488	487	484	481	480	478	481	482	482	485	489	491	492	491	491	488			
45	449	446	443	440	440	438	440	442	441	445	449	451	452	450	450	449			
50	405	402	399	396	395	393	395	398	396	400	404	406	407	407	406	404			
55	358	354	353	349	349	347	348	350	350	353	357	359	361	359	359	357			
60	310	307	305	302	300	299	300	302	300	304	308	309	312	311	310	309			
65	261	257	255	253	252	250	251	252	251	255	259	260	262	262	261	259			
70	213	211	209	207	205	204	204	206	204	207	211	213	214	214	213	212			
75	170	168	167	165	164	162	162	163	162	164	168	170	170	170	170	168			
80	132	131	130	129	127	126	125	126	124	126	129	130	132	131	131	130			
85	100	99.6	98.6	97.4	95.8	94.5	93.8	94.4	93.0	95.4	97.3	98.8	99.4	99.1	98.8	98.3			
90	73.6	72.6	72.3	71.4	70.2	68.7	67.9	68.3	67.5	69.3	71.2	72.1	72.5	72.1	72.0	71.4			
95	51.6	51.2	51.1	50.6	49.6	48.7	47.5	47.6	47.4	49.2	50.5	50.8	51.0	50.9	51.2	50.6			
100	38.5	37.9	37.9	38.1	36.9	36.4	35.2	34.8	34.9	35.9	36.8	37.3	37.1	37.2	37.6	37.2			
105	33.0	33.5	33.8	33.8	32.8	32.2	31.0	30.1	29.8	30.2	30.8	31.5	31.7	32.1	32.4	32.1			
110	33.0	33.4	33.7	33.8	32.8	32.2	31.0	30.2	30.1	30.3	30.9	31.5	31.9	32.3	32.3	32.2			
115	32.6	32.9	33.2	33.2	32.2	31.6	30.5	29.8	29.7	30.0	30.5	31.1	31.2	31.7	31.9	31.6			
120	31.0	31.4	31.8	31.5	30.8	30.2	29.2	28.6	28.6	28.9	29.3	29.8	29.8	30.4	30.3	30.3			
125	27.9	28.7	28.9	28.7	28.1	27.4	26.6	26.1	26.2	26.6	27.0	27.3	27.0	27.8	28.0	28.1			
130	25.0	26.6	25.8	25.6	24.9	24.4	23.7	23.3	24.4	25.8	24.2	24.3	24.1	24.9	25.0	25.1			
135	21.8	22.0	23.8	22.0	21.3	21.4	20.7	20.4	20.4	20.7	20.9	21.1	20.5	21.4	21.5	21.4			
140	18.1	18.3	18.3	18.1	17.6	17.8	17.1	16.9	17.1	17.2	17.5	17.5	16.7	17.5	17.4	17.8			
145	14.5	14.2	16.2	15.4	13.8	14.1	15.0	13.5	13.3	14.2	13.7	13.7	12.7	13.4	13.5	13.7			
150	10.5	10.2	10.3	10.0	10.4	10.6	9.96	10.1	9.77	9.77	9.92	9.97	9.10	9.50	9.58	9.58			
155	7.26	7.27	8.86	7.62	7.67	7.84	7.40	7.54	7.15	7.03	7.09	7.17	6.70	6.37	6.54	6.64			
160	4.89	4.70	5.08	5.45	6.32	6.00	5.52	5.60	5.27	5.15	5.07	5.24	4.77	4.36	4.92	4.40			
165	3.75	3.35	3.01	4.22	4.35	4.61	3.88	3.75	3.92	3.85	3.72	3.83	4.10	2.51	2.90	3.10			
170	2.84	2.63	2.40	3.33	3.50	3.70	3.29	2.94	3.01	3.01	2.90	2.95	2.75	1.67	2.55	2.54			
175	1.96	1.93	2.00	1.87	2.06	2.10	2.14	2.08	1.60	1.65	2.04	2.06	1.50	1.06	1.54	1.66			
180	1.03	1.08	1.06	1.02	1.03	1.04	1.05	1.07	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07			

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