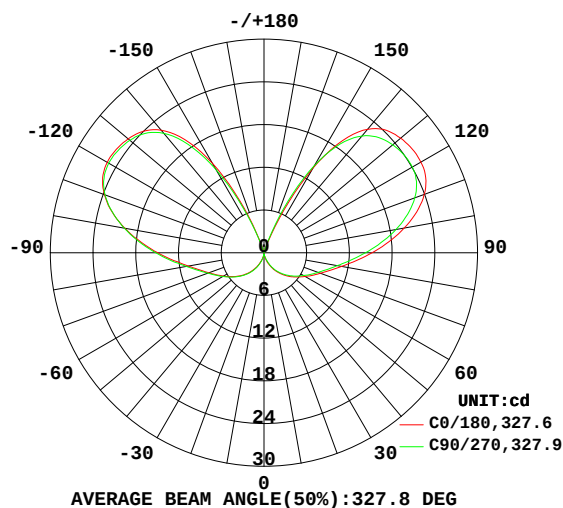


LUMINAIRE PHOTOMETRIC TEST REPORT

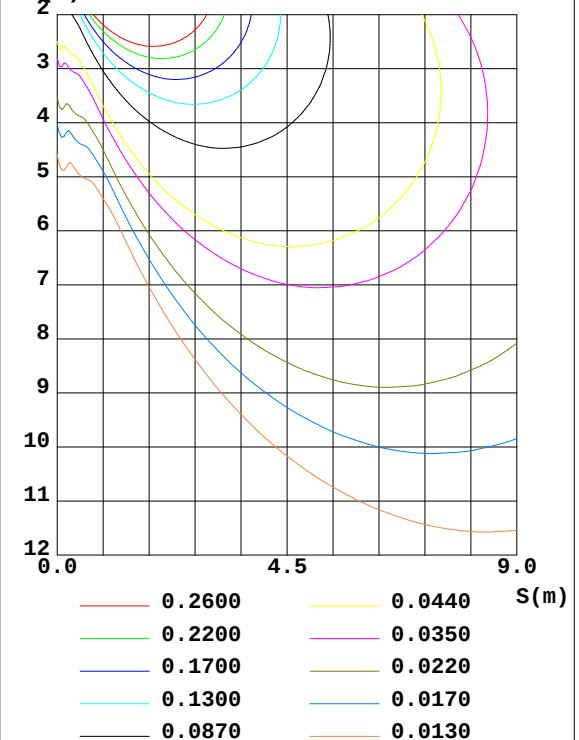
Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 53.83 lm/W
MODEL	ASD-BPL01-LV-3BK	I _{max} (cd)	29.02	S/MH(C0/180)	7.48	
NOMINAL POWER(W)	3	LOR(%)	100.0	S/MH(C90/270)	7.34	
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	170.44	η UP, DN(C0-180)	38.7, 12.8	
NOMINAL FLUX(lm)	170.44	CIE CLASS	SEMI-IND.	η UP, DN(C180-360)	36.5, 12.0	
LAMPS INSIDE	1	η up(%)	75.2	CIBSE SHR NOM	1.75	
TEST VOLTAGE(V)	12	η down(%)	24.8	CIBSE SHR MAX	1.75	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 24.4DEG
Operators: Water
Test Date: 2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 47%
Test Distance: 2.519m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

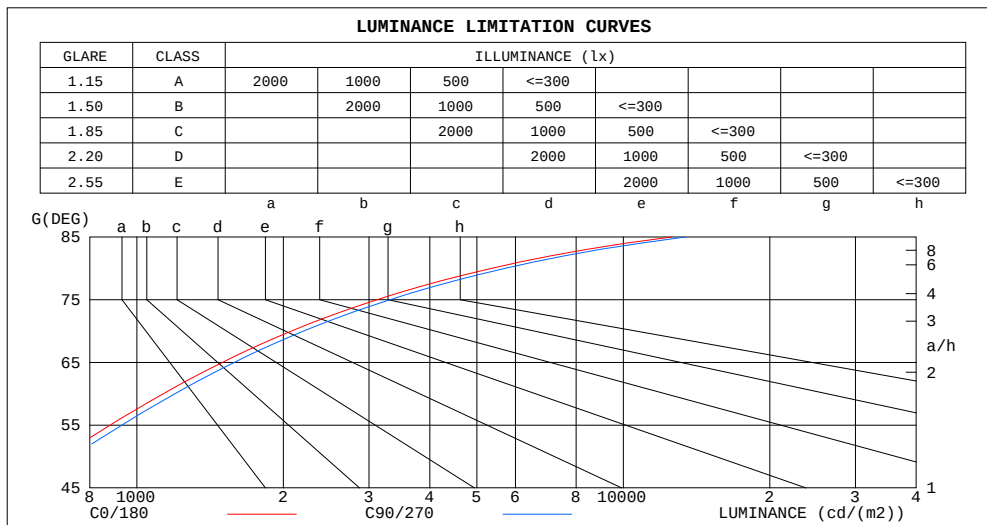
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	0.4240	0.4444	0.4758	0.4735	0.4375	0.2664	0.3665	0.3852	0- 10	0.0318	0.0318	0.02,0.02
20	1.333	1.371	1.473	1.427	1.379	0.9848	1.166	1.234	10- 20	0.2406	0.2724	0.16,0.16
30	2.588	2.517	2.744	2.598	2.648	2.428	2.487	2.372	20- 30	0.8987	1.171	0.69,0.69
40	3.886	3.656	4.010	3.784	3.958	3.610	3.781	3.535	30- 40	1.996	3.167	1.86,1.86
50	5.187	4.752	5.292	4.946	5.275	4.745	5.066	4.657	40- 50	3.406	6.573	3.86,3.86
60	6.575	5.920	6.685	6.206	6.671	5.858	6.419	5.796	50- 60	5.060	11.63	6.83,6.83
70	8.242	7.486	8.403	7.876	8.433	7.265	8.092	7.305	60- 70	7.031	18.66	11,11
80	10.80	10.33	11.08	10.83	11.07	9.732	10.47	9.871	70- 80	9.695	28.36	16.6,16.6
90	14.92	15.25	15.20	15.75	15.19	14.13	14.25	14.45	80- 90	13.85	42.21	24.8,24.8
100	19.85	21.44	19.92	21.70	19.99	19.78	18.81	20.38	90-100	19.28	61.49	36.1,36.1
110	23.86	26.76	23.75	26.67	23.93	24.58	22.52	25.52	100-110	24.06	85.55	50.2,50.2
120	25.43	28.99	25.19	28.53	25.45	26.30	24.07	27.80	110-120	25.77	111.3	65.3,65.3
130	24.90	28.36	24.59	28.08	25.06	25.29	23.60	27.40	120-130	23.68	135.0	79.2,79.2
140	22.49	25.26	21.89	25.17	22.64	22.18	21.41	24.81	130-140	19.24	154.2	90.5,90.5
150	14.53	14.84	13.47	15.22	13.65	13.71	14.09	16.50	140-150	12.24	166.5	97.7,97.7
160	2.180	2.198	1.573	1.612	1.310	1.881	2.327	2.872	150-160	3.834	170.3	99.9,99.9
170	0.0309	0.0260	0.0345	0.0160	0.0576	0.0547	0.0332	0.0343	160-170	0.1269	170.4	100,100
180	0	0.0062	0	0	0	0.0054	0	0	170-180	0.0025	170.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



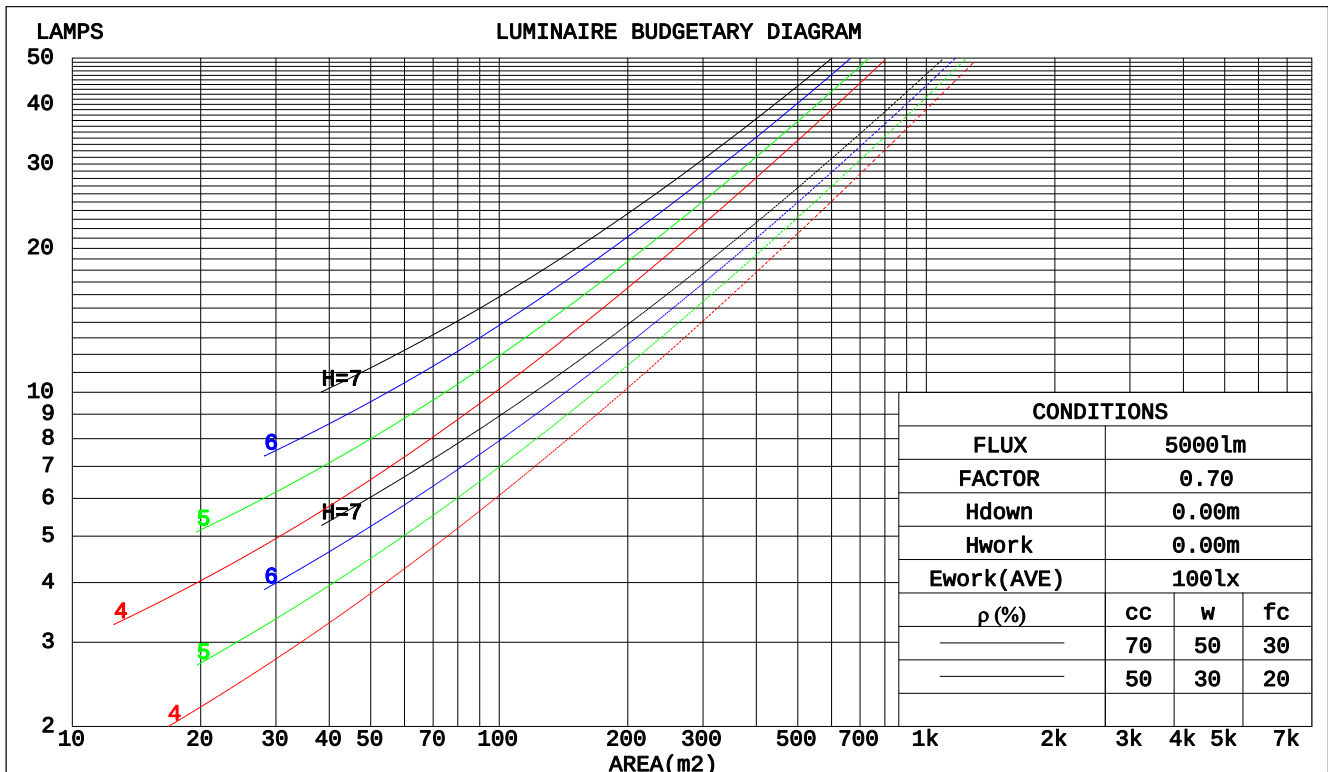
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	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	1.01	1.01	1.01	.90	.90	.90	.69	.69	.69	.50	.50	.50	.33	.33	.33	.25
1.0	.82	.77	.73	.73	.68	.64	.55	.52	.49	.38	.36	.34	.23	.21	.20	.13
2.0	.70	.63	.57	.62	.56	.50	.46	.42	.38	.32	.29	.26	.18	.16	.14	.08
3.0	.61	.52	.46	.53	.46	.40	.40	.35	.30	.27	.24	.21	.15	.13	.11	.06
4.0	.53	.44	.38	.47	.39	.33	.35	.29	.25	.24	.20	.17	.13	.11	.09	.04
5.0	.47	.38	.32	.41	.34	.28	.31	.25	.21	.21	.17	.14	.12	.09	.07	.03
6.0	.41	.33	.27	.37	.29	.24	.27	.22	.18	.18	.15	.12	.10	.08	.06	.02
7.0	.37	.29	.23	.33	.25	.20	.24	.19	.15	.17	.13	.10	.09	.07	.05	.02
8.0	.33	.25	.20	.29	.22	.18	.22	.17	.13	.15	.11	.09	.08	.06	.04	.02
9.0	.30	.23	.17	.27	.20	.15	.20	.15	.11	.14	.10	.08	.08	.05	.04	.01
10.0	.27	.20	.15	.24	.18	.13	.18	.13	.10	.13	.09	.07	.07	.05	.03	.01



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm					
NAME: ASD-BPL01-LV-3BK			TYPE: N/A		WEIGHT: N/A
SPEC.: 3-5000k			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 Coeffcients(WEC)											
0.0																		
1.0	.374	.213	.067	.344	.196	.062	.288	.165	.053	.236	.136	.044	.189	.109	.035			
2.0	.312	.171	.052	.284	.157	.048	.233	.130	.040	.186	.104	.033	.142	.080	.025			
3.0	.273	.145	.044	.248	.133	.040	.201	.109	.033	.157	.086	.026	.116	.064	.020			
4.0	.244	.127	.037	.221	.116	.034	.178	.094	.028	.137	.074	.022	.100	.054	.017			
5.0	.221	.113	.033	.200	.103	.030	.160	.083	.025	.123	.065	.019	.088	.047	.014			
6.0	.203	.102	.029	.183	.092	.027	.146	.075	.022	.111	.058	.017	.078	.041	.012			
7.0	.187	.092	.026	.169	.084	.024	.134	.068	.019	.101	.052	.015	.071	.037	.011			
8.0	.173	.085	.024	.156	.077	.022	.124	.062	.018	.094	.047	.014	.065	.033	.010			
9.0	.161	.078	.022	.146	.071	.020	.115	.057	.016	.087	.044	.012	.060	.030	.009			
10.0	.151	.072	.020	.136	.066	.018	.108	.053	.015	.081	.040	.011	.056	.028	.008			

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	.764	.764	.764	.653	.653	.653	.445	.445	.445	.256	.256	.256	.082	.082	.082	
1.0	.763	.734	.707	.653	.630	.609	.446	.433	.421	.257	.251	.245	.082	.081	.079	
2.0	.757	.714	.677	.648	.614	.586	.444	.425	.408	.256	.247	.239	.082	.080	.078	
3.0	.750	.699	.659	.643	.603	.571	.441	.419	.401	.255	.245	.236	.082	.079	.077	
4.0	.743	.688	.647	.638	.595	.562	.439	.415	.396	.254	.243	.234	.082	.079	.077	
5.0	.736	.680	.638	.632	.588	.555	.436	.411	.392	.252	.241	.233	.081	.079	.077	
6.0	.730	.673	.632	.627	.583	.550	.433	.408	.389	.251	.240	.231	.081	.078	.076	
7.0	.724	.667	.628	.622	.578	.547	.430	.405	.388	.250	.239	.231	.081	.078	.076	
8.0	.718	.662	.624	.618	.575	.544	.428	.403	.386	.249	.238	.230	.080	.078	.076	
9.0	.712	.658	.622	.614	.571	.542	.425	.402	.385	.248	.237	.230	.080	.078	.076	
10.0	.707	.655	.620	.609	.568	.541	.423	.400	.384	.247	.236	.229	.080	.078	.076	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm										
NAME: ASD-BPL01-LV-3BK					TYPE: N/A			WEIGHT: N/A		
SPEC.: 3-5000k					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	12.4	13.2	13.5	14.3	15.9	12.6	13.5	13.7	14.6	16.1
3H	16.7	17.5	17.8	18.6	20.1	17.0	17.8	18.1	18.9	20.5
4H	19.2	19.9	20.3	21.1	22.6	19.6	20.3	20.7	21.4	23.0
6H	22.1	22.7	23.2	23.9	25.4	22.5	23.1	23.6	24.3	25.8
8H	23.7	24.3	24.8	25.5	27.0	24.1	24.7	25.2	25.9	27.5
12H	25.5	26.1	26.7	27.3	28.9	26.0	26.6	27.1	27.7	29.3
4H 2H	13.6	14.3	14.7	15.4	17.0	13.7	14.5	14.9	15.6	17.2
3H	17.9	18.5	19.1	19.7	21.3	18.2	18.8	19.3	19.9	21.5
4H	20.5	21.1	21.7	22.3	23.9	20.9	21.4	22.0	22.6	24.2
6H	23.5	24.0	24.7	25.2	26.8	23.9	24.4	25.1	25.6	27.2
8H	25.2	25.7	26.4	26.8	28.5	25.6	26.1	26.8	27.2	28.9
12H	27.1	27.6	28.3	28.7	30.4	27.6	28.0	28.7	29.2	30.8
8H 4H	21.4	21.9	22.6	23.1	24.7	21.7	22.1	22.8	23.3	24.9
6H	24.7	25.1	25.8	26.2	27.9	25.0	25.4	26.2	26.6	28.2
8H	26.5	26.9	27.7	28.1	29.7	26.9	27.2	28.1	28.4	30.1
12H	28.7	29.0	29.8	30.1	31.8	29.1	29.4	30.3	30.6	32.2
12H 4H	21.8	22.2	23.0	23.4	25.0	22.0	22.4	23.2	23.6	25.2
6H	25.1	25.5	26.3	26.6	28.3	25.4	25.7	26.5	26.9	28.6
8H	27.1	27.4	28.2	28.6	30.2	27.4	27.7	28.6	28.9	30.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 170.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.1)
Area: 0.011304 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

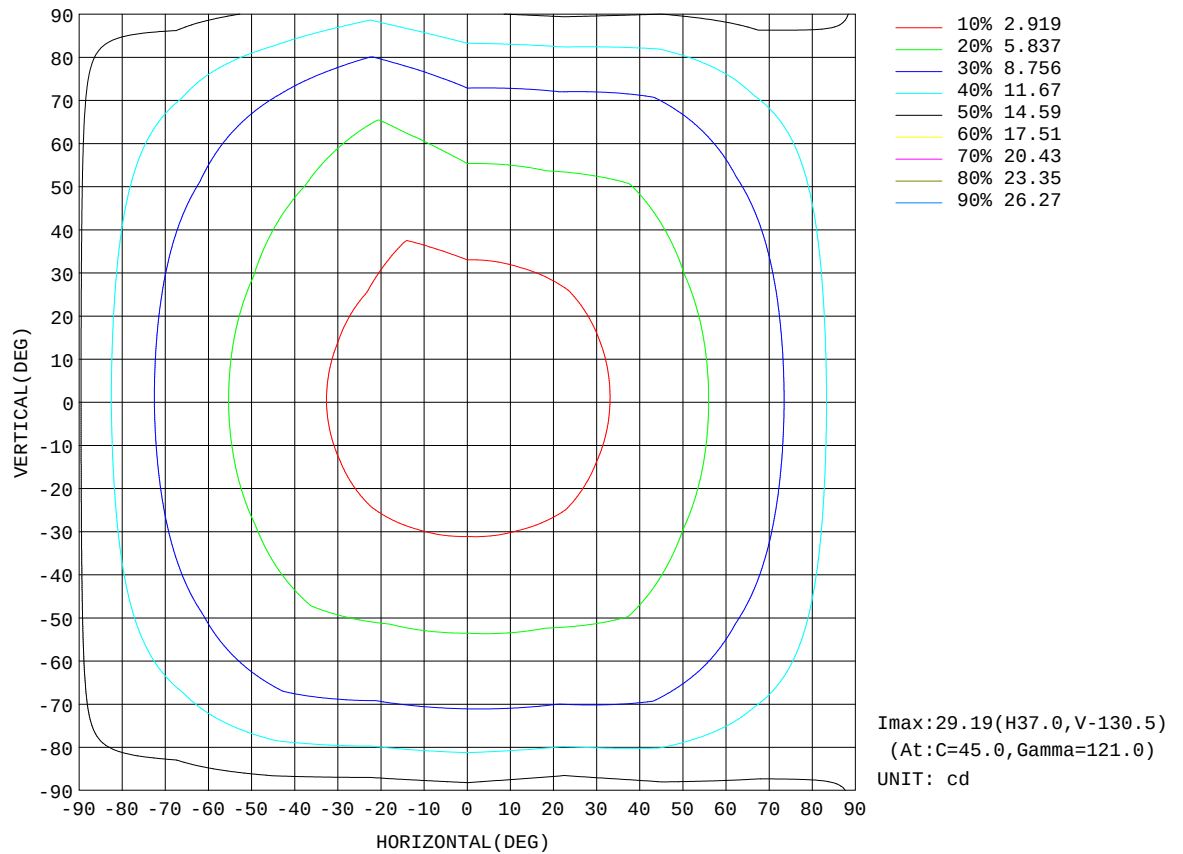
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	30	18	11	28	17	10	23	14	9	1
0.80	39	25	17	35	23	15	28	19	13	2
1.00	45	31	22	41	28	20	33	24	16	3
1.25	52	38	29	47	34	26	37	27	21	4
1.50	58	44	34	51	39	31	40	31	24	5
2.00	65	52	43	58	47	38	45	36	30	7
2.50	70	58	49	63	52	44	48	40	34	9
3.00	74	63	54	66	56	49	51	44	38	10
4.00	80	70	62	71	62	55	54	48	43	12
5.00	83	75	67	74	67	60	57	51	46	13
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: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

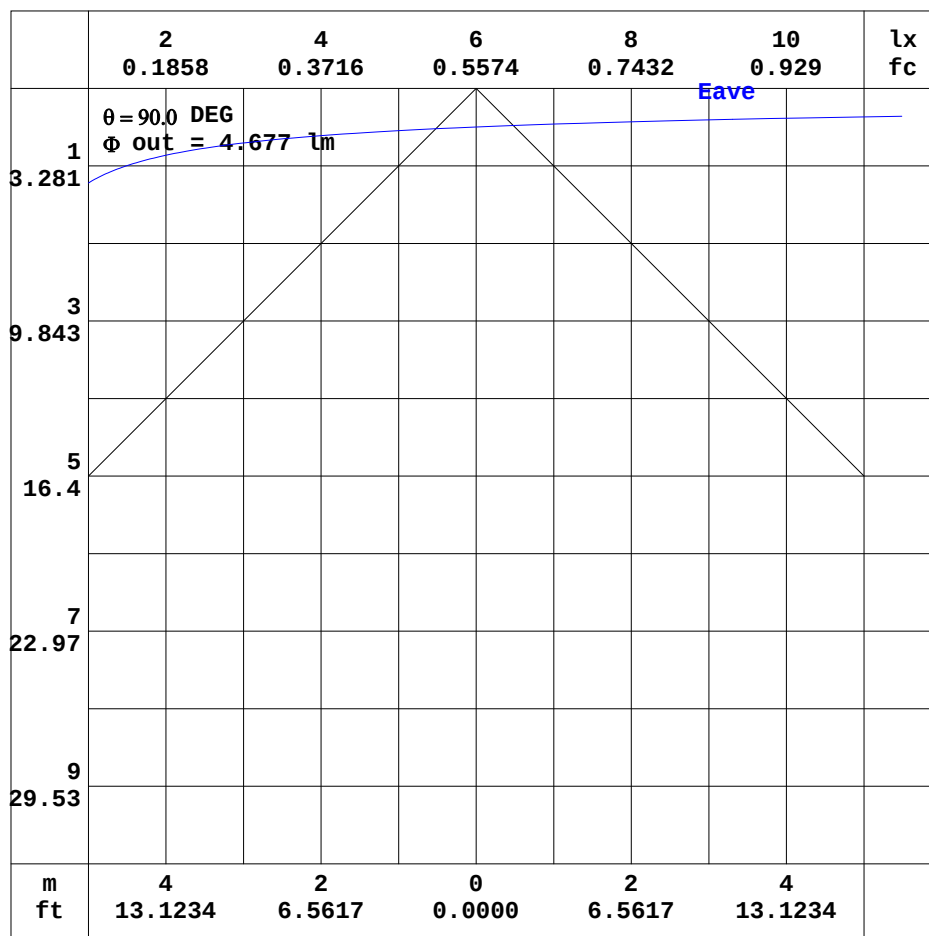


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

AAI CURVES

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



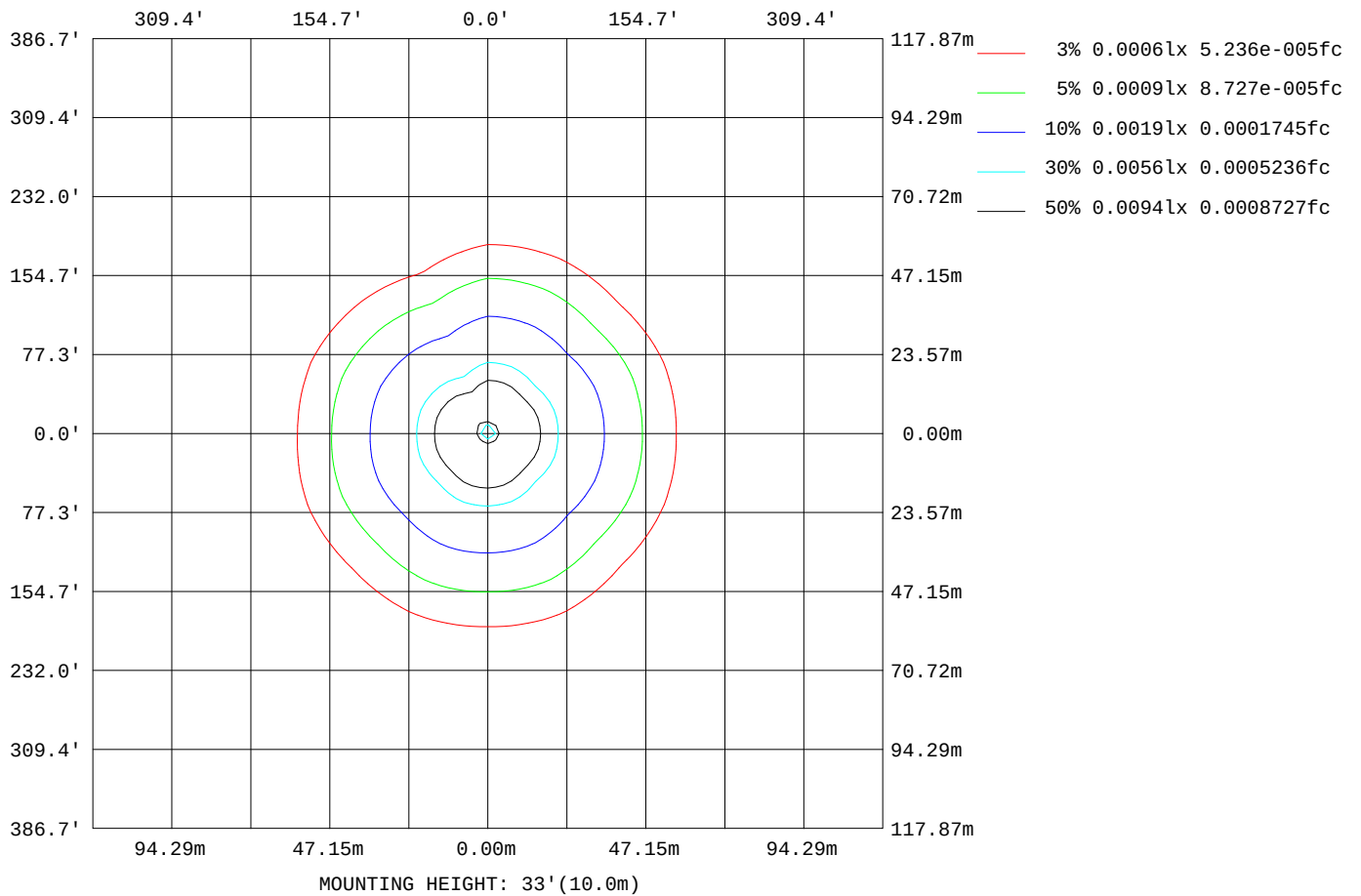
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 24.4DEG
Operators: Water
Test Date: 2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 47%
Test Distance: 2.519m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	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: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm		
NAME: ASD-BPL01-LV-3BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 3-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

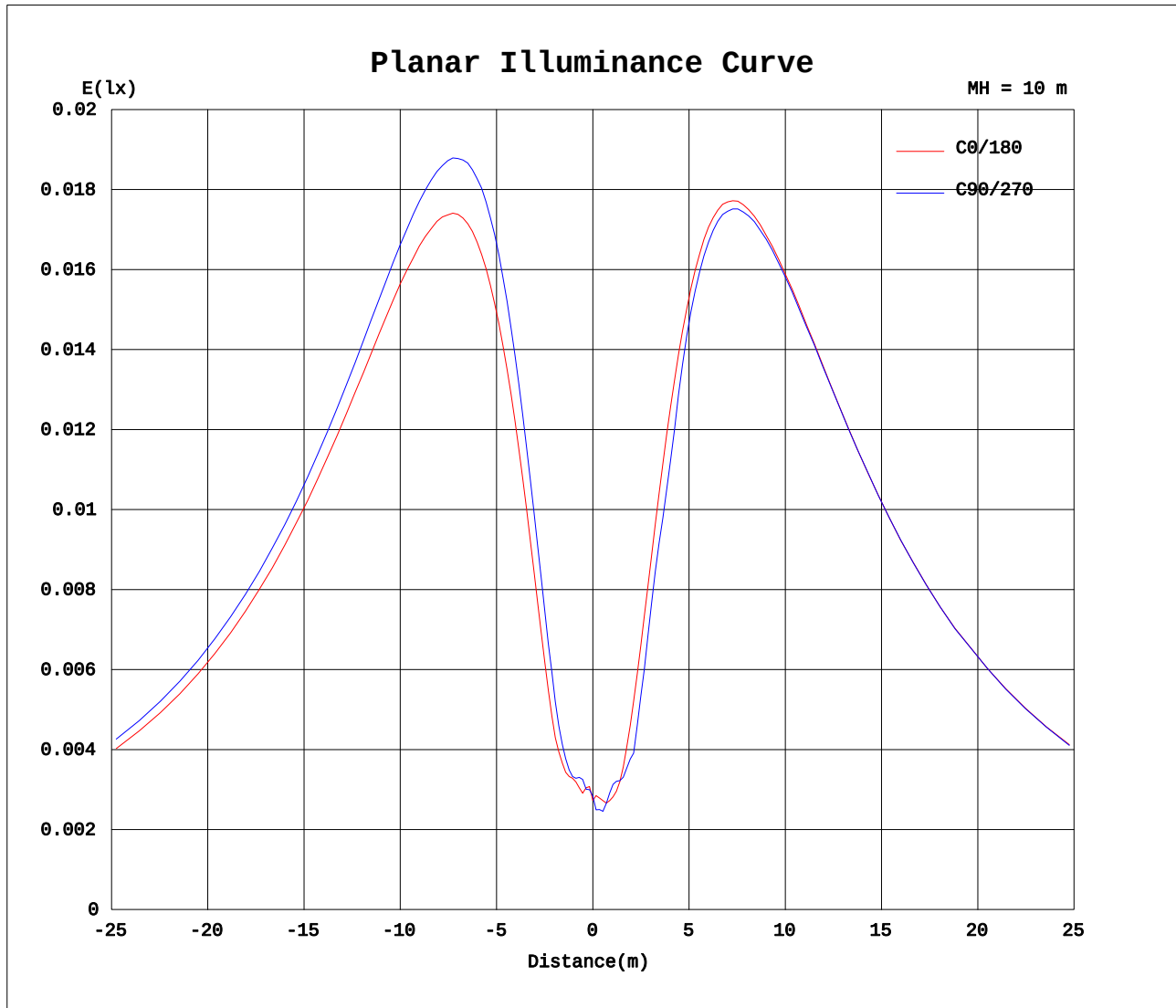
AvgL	cd/m2
L_0~180(65)av	1556
L_0~180(75)av	3239
L_0~180(85)av	13028
L_90~270(65)av	1539
L_90~270(75)av	3201
L_90~270(85)av	12818
L_45(65)av	1387
L_45(75)av	2948
L_45(85)av	12512

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:24.4DEG
 Operators:Water
 Test Date:2025-10-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 24.4DEG
Operators: Water
Test Date: 2025-10-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 47%
Test Distance: 2.519m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.011V I:0.3986A P:3.1660W PF:0.6613 Freq:60.00Hz Lamp Flux:170.44x1 lm																	
NAME: ASD-BPL01-LV-3BK									TYPE: N/A						WEIGHT: N/A		
SPEC.:3-5000k									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	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28			
5	0.33	0.32	0.34	0.32	0.33	0.31	0.31	0.30	0.28	0.28	0.24	0.25	0.29	0.33	0.34	0.34			
10	0.42	0.42	0.44	0.45	0.48	0.48	0.47	0.46	0.44	0.36	0.27	0.29	0.37	0.39	0.39	0.39			
15	0.79	0.80	0.85	0.87	0.91	0.90	0.90	0.86	0.84	0.72	0.60	0.59	0.66	0.73	0.72	0.72			
20	1.33	1.36	1.37	1.42	1.47	1.46	1.43	1.41	1.38	1.33	0.98	0.62	1.17	1.25	1.23	1.25			
25	1.94	1.97	1.94	2.03	2.10	2.08	2.00	2.01	2.00	1.95	1.82	1.37	1.81	1.85	1.79	1.84			
30	2.59	2.61	2.52	2.66	2.74	2.73	2.60	2.64	2.65	2.59	2.43	2.00	2.49	2.49	2.37	2.47			
35	3.25	3.24	3.09	3.29	3.38	3.38	3.19	3.28	3.30	3.25	3.02	2.44	3.14	3.13	2.95	3.11			
40	3.89	3.87	3.66	3.92	4.01	4.03	3.78	3.91	3.96	3.90	3.61	2.91	3.78	3.79	3.53	3.75			
45	4.54	4.49	4.21	4.55	4.65	4.68	4.37	4.55	4.61	4.55	4.18	3.40	4.42	4.43	4.10	4.38			
50	5.19	5.13	4.75	5.18	5.29	5.34	4.95	5.19	5.27	5.19	4.75	3.88	5.07	5.07	4.66	5.02			
55	5.86	5.78	5.31	5.83	5.97	6.02	5.56	5.86	5.94	5.85	5.29	4.37	5.73	5.73	5.21	5.67			
60	6.58	6.48	5.92	6.53	6.68	6.76	6.21	6.57	6.67	6.55	5.86	4.89	6.42	6.43	5.80	6.35			
65	7.35	7.29	6.61	7.37	7.48	7.62	6.96	7.40	7.52	7.33	6.48	5.48	7.22	7.19	6.46	7.10			
70	8.24	8.21	7.49	8.33	8.40	8.61	7.88	8.38	8.43	8.24	7.26	6.19	8.09	8.07	7.31	8.00			
75	9.35	9.39	8.68	9.60	9.58	9.84	9.13	9.63	9.60	9.42	8.30	7.13	9.14	9.17	8.38	9.15			
80	10.8	10.9	10.3	11.3	11.1	11.5	10.8	11.3	11.1	11.0	9.73	8.40	10.5	10.6	9.87	10.7			
85	12.7	12.9	12.6	13.5	13.1	13.5	13.1	13.5	13.0	13.1	11.7	10.1	12.2	12.5	11.9	12.9			
90	14.9	15.3	15.3	16.1	15.2	15.9	15.8	16.0	15.2	15.5	14.1	12.1	14.2	14.9	14.5	15.3			
95	17.4	17.9	18.3	18.9	17.6	18.6	18.7	18.8	17.6	18.2	16.9	14.4	16.5	17.4	17.3	18.2			
100	19.9	20.7	21.4	21.8	19.9	21.1	21.7	21.6	20.0	21.0	19.8	16.7	18.8	20.0	20.4	21.1			
105	22.1	23.2	24.4	24.6	22.0	23.5	24.5	24.2	22.2	23.5	22.5	18.8	20.9	22.4	23.2	23.7			
110	23.9	25.1	26.8	26.7	23.7	25.4	26.7	26.2	23.9	25.6	24.6	20.4	22.5	24.4	25.5	25.9			
115	25.0	26.4	28.3	28.1	24.8	26.5	28.0	27.5	25.1	26.9	25.9	21.4	23.6	25.6	27.1	27.3			
120	25.4	26.9	29.0	28.7	25.2	26.9	28.5	27.9	25.4	27.4	26.3	21.7	24.1	26.2	27.8	27.9			
125	25.3	26.8	28.9	28.4	25.0	26.8	28.5	27.8	25.4	27.2	26.0	21.4	24.0	26.1	27.8	27.8			
130	24.9	26.2	28.4	27.8	24.6	26.3	28.1	27.3	25.1	26.5	25.3	20.6	23.6	25.6	27.4	27.2			
135	24.1	25.3	27.3	26.5	23.7	25.3	27.2	26.4	24.3	25.1	24.1	19.7	22.9	24.7	26.5	26.2			
140	22.5	23.5	25.3	24.4	21.9	23.3	25.2	24.3	22.6	22.2	22.2	18.1	21.4	23.0	24.8	24.4			
145	19.4	20.2	21.4	20.7	18.6	19.7	21.3	20.4	19.2	17.5	18.8	15.4	18.7	19.9	21.6	21.1			
150	14.5	15.0	14.8	15.2	13.5	14.1	15.2	14.5	13.7	12.6	13.7	11.4	14.1	15.0	16.5	15.9			
155	8.11	8.40	8.15	8.27	7.03	7.12	7.77	7.04	6.53	6.18	7.40	6.44	8.04	8.75	9.87	9.18			
160	2.18	2.29	2.20	2.25	1.57	1.56	1.61	1.26	1.31	1.11	1.88	1.94	2.33	2.76	2.87	2.67			
165	0.09	0.07	0.05	0.04	0.06	0.06	0.06	0.07	0.09	0.10	0.08	0.09	0.09	0.12	0.13	0.09			
170	0.03	0.03	0.03	0.02	0.03	0.04	0.02	0.04	0.06	0.07	0.05	0.04	0.03	0.05	0.03	0.02			
175	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.03	0.01	0.01	0.01			
180	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00			

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