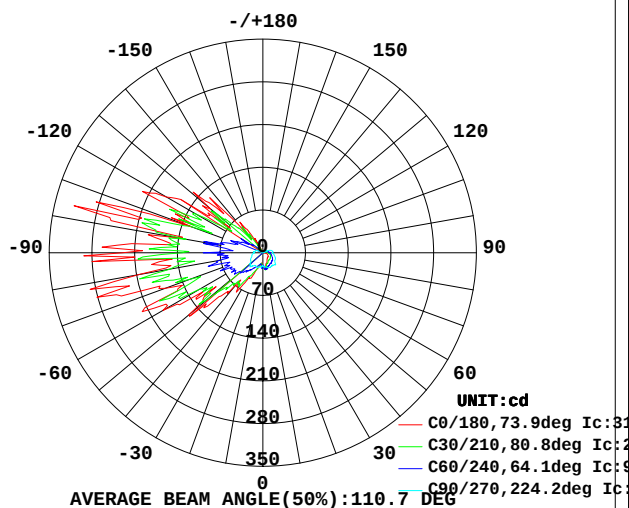


LUMINAIRE PHOTOMETRIC TEST REPORT

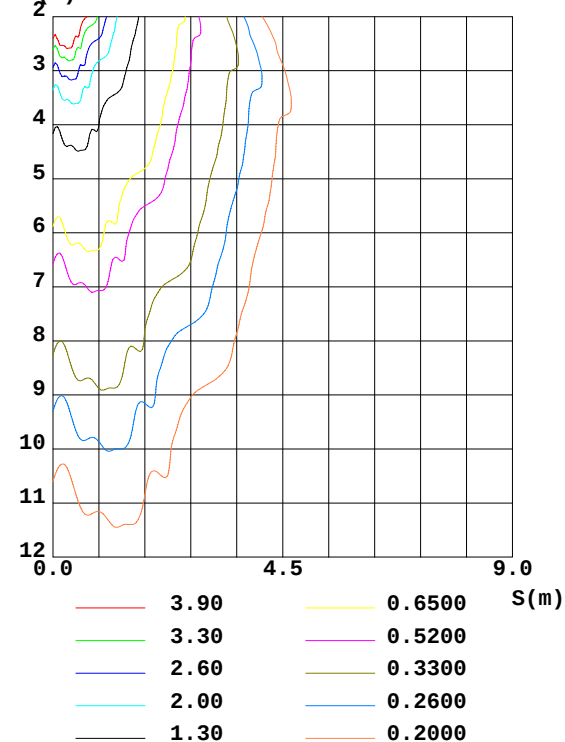
Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 42.26 lm/W			
MODEL	ASD-LWS26S-13D12CC-BK	I _{max} (cd)	319.0	S/MH(C0/180)	4.23
NOMINAL POWER(W)	11.5W	LOR(%)	100.0	S/MH(C90/270)	1.88
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	520.45	η UP, DN(C0-180)	16.3, 26.0
NOMINAL FLUX(lm)	520.449	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	24.1, 33.7
LAMPS INSIDE	1	η up(%)	40.3	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	59.7	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [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	23.33	28.73	23.22	18.49	18.75	18.62	23.53	25.60	0- 10	2.166	2.166	0.42,0.42
20	18.33	20.77	25.91	26.40	28.64	25.90	25.57	21.80	10- 20	6.639	8.805	1.69,1.69
30	13.92	19.23	26.27	37.78	50.88	38.37	24.42	19.98	20- 30	12.48	21.29	4.09,4.09
40	11.57	19.09	27.14	54.74	62.97	47.79	29.89	19.51	30- 40	20.99	42.27	8.12,8.12
50	10.99	17.37	26.70	72.47	158.7	73.10	28.65	18.40	40- 50	32.89	75.16	14.4,14.4
60	10.18	15.76	23.45	91.50	189.0	95.10	23.38	15.86	50- 60	44.28	119.4	23,23
70	8.102	14.25	21.46	98.66	170.4	101.5	19.62	12.88	60- 70	57.65	177.1	34,34
80	3.963	11.75	18.82	126.6	205.3	124.7	18.05	10.76	70- 80	70.02	247.1	47.5,47.5
90	2.330	9.443	14.97	116.3	229.9	97.57	13.41	9.357	80- 90	63.39	310.5	59.7,59.7
100	2.242	7.502	16.20	139.9	143.2	124.6	13.73	6.572	90-100	59.82	370.3	71.2,71.2
110	2.095	2.582	12.26	69.06	124.5	93.98	11.63	2.354	100-110	60.50	430.8	82.8,82.8
120	1.926	3.755	2.820	65.04	182.5	57.73	2.769	3.659	110-120	41.21	472.0	90.7,90.7
130	1.822	1.901	6.794	40.05	112.1	61.24	5.379	1.638	120-130	27.30	499.3	95.9,95.9
140	1.725	1.479	2.357	10.64	33.13	15.87	1.891	1.498	130-140	15.33	514.7	98.9,98.9
150	1.645	1.390	0.9590	1.113	18.06	1.209	0.9821	1.386	140-150	4.498	519.2	99.8,99.8
160	1.637	1.298	0.9513	1.144	1.787	1.213	0.9667	1.286	150-160	0.8117	520.0	99.9,99.9
170	1.641	1.259	0.9513	1.163	1.725	1.213	0.9667	1.217	160-170	0.3550	520.3	100,100
180	1.656	1.259	0.9551	1.167	1.679	1.229	0.9667	1.175	170-180	0.1187	520.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

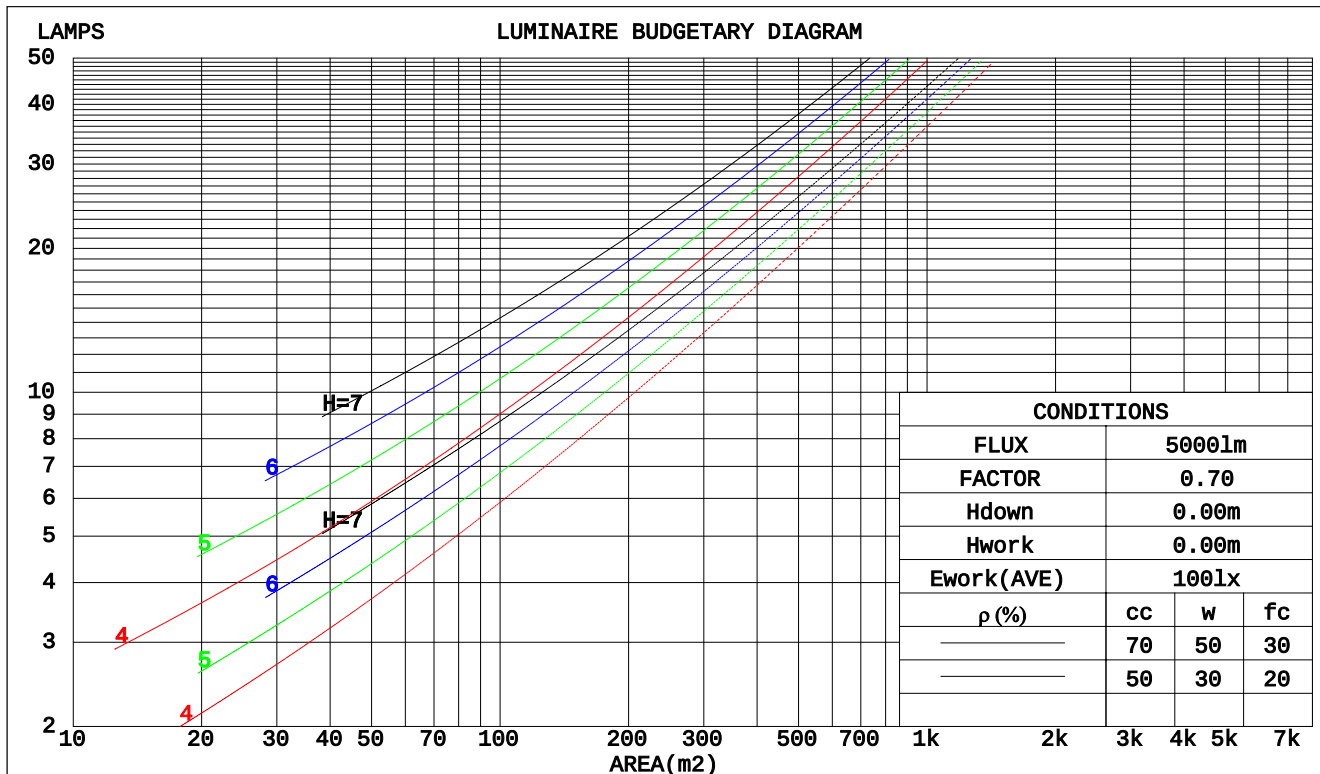
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

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	1.09	1.09	1.09	1.02	1.02	1.02	.89	.89	.89	.76	.76	.76	.65	.65	.65	.60
1.0	.86	.80	.74	.80	.74	.69	.68	.63	.59	.57	.54	.50	.47	.44	.42	.37
2.0	.71	.63	.55	.66	.58	.51	.56	.49	.44	.46	.41	.37	.38	.34	.30	.25
3.0	.61	.51	.43	.56	.47	.40	.47	.40	.34	.39	.33	.28	.31	.27	.23	.19
4.0	.52	.42	.34	.48	.39	.32	.41	.33	.27	.33	.27	.22	.27	.22	.18	.14
5.0	.46	.36	.28	.42	.33	.26	.36	.28	.22	.29	.23	.18	.23	.18	.15	.11
6.0	.41	.31	.24	.37	.29	.22	.32	.24	.19	.26	.20	.15	.21	.16	.12	.09
7.0	.36	.27	.20	.33	.25	.19	.28	.21	.16	.23	.17	.13	.19	.14	.10	.07
8.0	.33	.24	.17	.30	.22	.16	.26	.19	.14	.21	.15	.11	.17	.12	.09	.06
9.0	.30	.21	.15	.27	.20	.14	.23	.17	.12	.19	.14	.10	.16	.11	.08	.05
10.0	.27	.19	.13	.25	.18	.12	.21	.15	.11	.18	.12	.09	.14	.10	.07	.05



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm									
NAME: ASD-LWS26S-13D12CC-BK 5000K					TYPE:LED			WEIGHT:	
SPEC.:					DIM.:			SERIAL No.:	
MFR.: ASD Lighting corp					SUR.:			PROTECTION ANGLE:	

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	.463	.263	.083	.444	.253	.080	.407	.233	.075	.373	.215	.069	.342	.198	.064	
2.0	.380	.208	.064	.362	.200	.061	.329	.183	.057	.297	.167	.052	.269	.152	.048	
3.0	.327	.174	.052	.311	.166	.050	.280	.152	.046	.251	.138	.042	.225	.125	.039	
4.0	.288	.150	.044	.273	.143	.042	.245	.130	.039	.219	.117	.035	.194	.106	.032	
5.0	.257	.131	.038	.244	.125	.036	.218	.113	.033	.194	.102	.030	.171	.092	.028	
6.0	.233	.117	.033	.220	.111	.032	.197	.101	.029	.174	.091	.027	.154	.081	.024	
7.0	.213	.105	.030	.201	.100	.029	.179	.091	.026	.159	.081	.024	.139	.072	.021	
8.0	.196	.096	.027	.185	.091	.026	.165	.082	.023	.146	.074	.021	.128	.066	.019	
9.0	.181	.088	.024	.171	.083	.023	.152	.075	.021	.135	.067	.019	.118	.060	.017	
10.0	.169	.081	.022	.159	.077	.021	.142	.069	.020	.125	.062	.018	.109	.055	.016	

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	.498	.498	.498	.425	.425	.425	.290	.290	.290	.167	.167	.167	.053	.053	.053	
1.0	.501	.465	.432	.429	.399	.372	.293	.274	.257	.169	.159	.150	.054	.051	.048	
2.0	.496	.443	.399	.425	.382	.345	.291	.264	.241	.168	.154	.141	.054	.050	.046	
3.0	.489	.428	.380	.419	.369	.329	.288	.257	.231	.166	.150	.136	.053	.049	.045	
4.0	.481	.417	.368	.413	.360	.319	.284	.251	.225	.164	.147	.133	.053	.048	.044	
5.0	.474	.408	.359	.407	.353	.313	.280	.246	.221	.162	.145	.131	.052	.047	.043	
6.0	.466	.400	.353	.400	.347	.308	.276	.243	.218	.160	.143	.129	.052	.047	.043	
7.0	.458	.394	.349	.394	.342	.304	.272	.240	.216	.158	.141	.128	.051	.046	.042	
8.0	.452	.389	.346	.389	.337	.302	.269	.237	.214	.156	.140	.127	.051	.046	.042	
9.0	.445	.384	.343	.383	.334	.300	.266	.234	.213	.155	.138	.127	.050	.045	.042	
10.0	.439	.380	.341	.378	.330	.298	.263	.232	.212	.153	.137	.126	.050	.045	.042	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm											
NAME: ASD-LWS26S-13D12CC-BK 5000K						TYPE:LED			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.: ASD Lighting corp						SUR.:			PROTECTION 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	0.7	1.9	1.5	2.8	3.8	4.1	5.4	4.9	6.2	7.2	
3H	3.0	4.2	3.8	5.0	6.1	7.0	8.1	7.8	8.9	10.0	
4H	4.3	5.4	5.1	6.2	7.3	8.5	9.6	9.3	10.4	11.5	
6H	5.1	6.1	5.9	7.0	8.1	10.3	11.3	11.1	12.1	13.2	
8H	5.4	6.4	6.2	7.2	8.3	11.2	12.2	12.1	13.1	14.2	
12H	5.6	6.5	6.4	7.4	8.5	12.3	13.3	13.2	14.2	15.3	
4H 2H	2.1	3.2	2.9	4.0	5.1	4.5	5.6	5.3	6.4	7.5	
3H	4.7	5.6	5.5	6.5	7.6	7.5	8.4	8.3	9.3	10.4	
4H	6.1	7.0	7.0	7.9	9.0	9.2	10.1	10.1	11.0	12.1	
6H	7.2	8.0	8.1	8.9	10.0	11.2	12.0	12.1	12.9	14.1	
8H	7.6	8.3	8.4	9.2	10.4	12.4	13.1	13.3	14.1	15.2	
12H	7.9	8.6	8.8	9.5	10.7	13.7	14.4	14.6	15.3	16.5	
8H 4H	7.0	7.8	7.9	8.7	9.9	9.5	10.2	10.4	11.1	12.3	
6H	8.5	9.2	9.4	10.1	11.3	11.8	12.4	12.7	13.3	14.5	
8H	9.2	9.8	10.1	10.7	11.9	13.1	13.7	14.1	14.7	15.9	
12H	9.8	10.3	10.7	11.3	12.5	14.7	15.2	15.6	16.1	17.4	
12H 4H	7.3	8.0	8.2	8.9	10.1	9.5	10.2	10.4	11.1	12.3	
6H	9.0	9.5	9.9	10.5	11.7	11.9	12.4	12.8	13.4	14.6	
8H	9.8	10.3	10.7	11.2	12.5	13.3	13.8	14.2	14.8	16.0	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					
2.0H	+ 0.3 / - 0.6					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 520.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

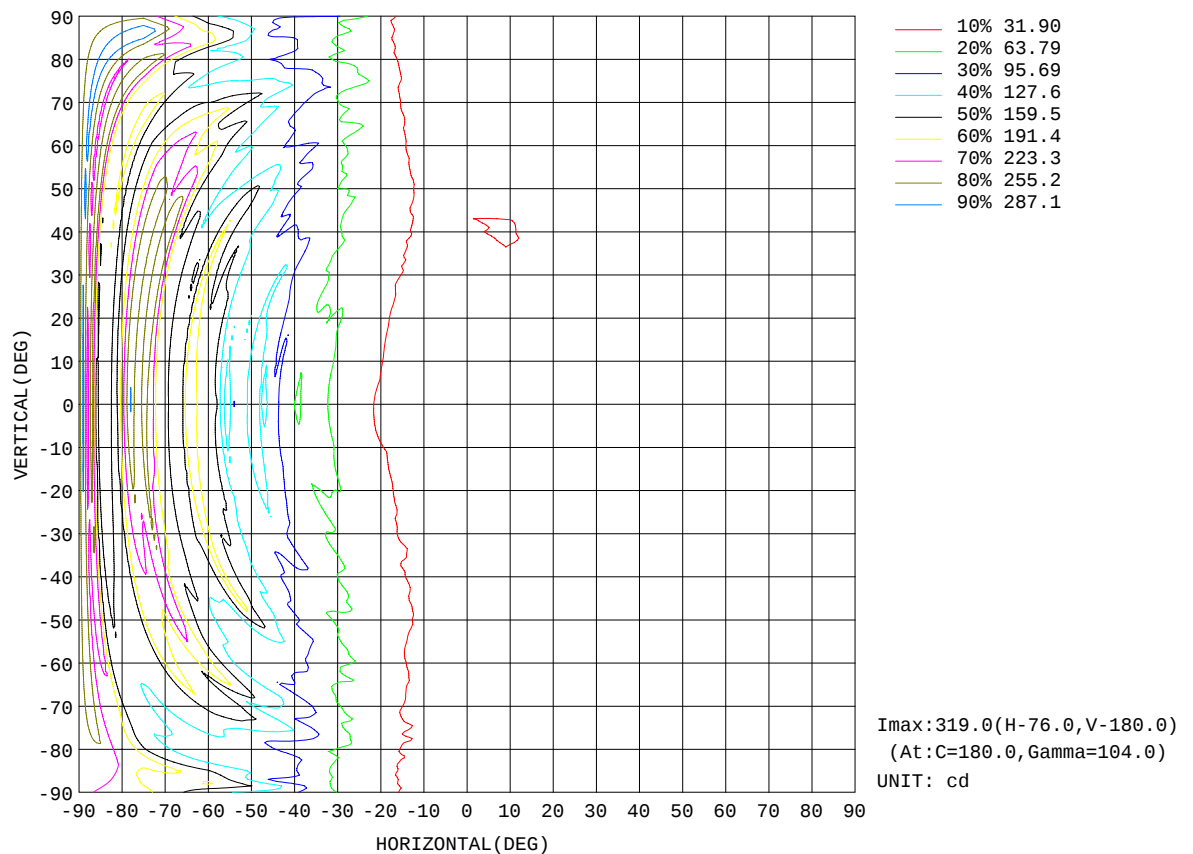
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	35	22	14	34	21	14	31	20	13	6
0.80	43	28	20	41	27	19	37	25	18	9
1.00	50	35	25	48	33	24	42	33	22	12
1.25	57	42	32	54	40	30	48	36	28	15
1.50	63	47	37	59	45	35	52	40	32	18
2.00	71	56	46	66	53	44	58	47	39	23
2.50	76	63	53	71	59	50	62	52	44	26
3.00	80	68	58	75	64	55	65	56	49	30
4.00	86	75	67	80	71	63	69	62	55	34
5.00	90	80	72	84	75	68	72	66	60	38
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

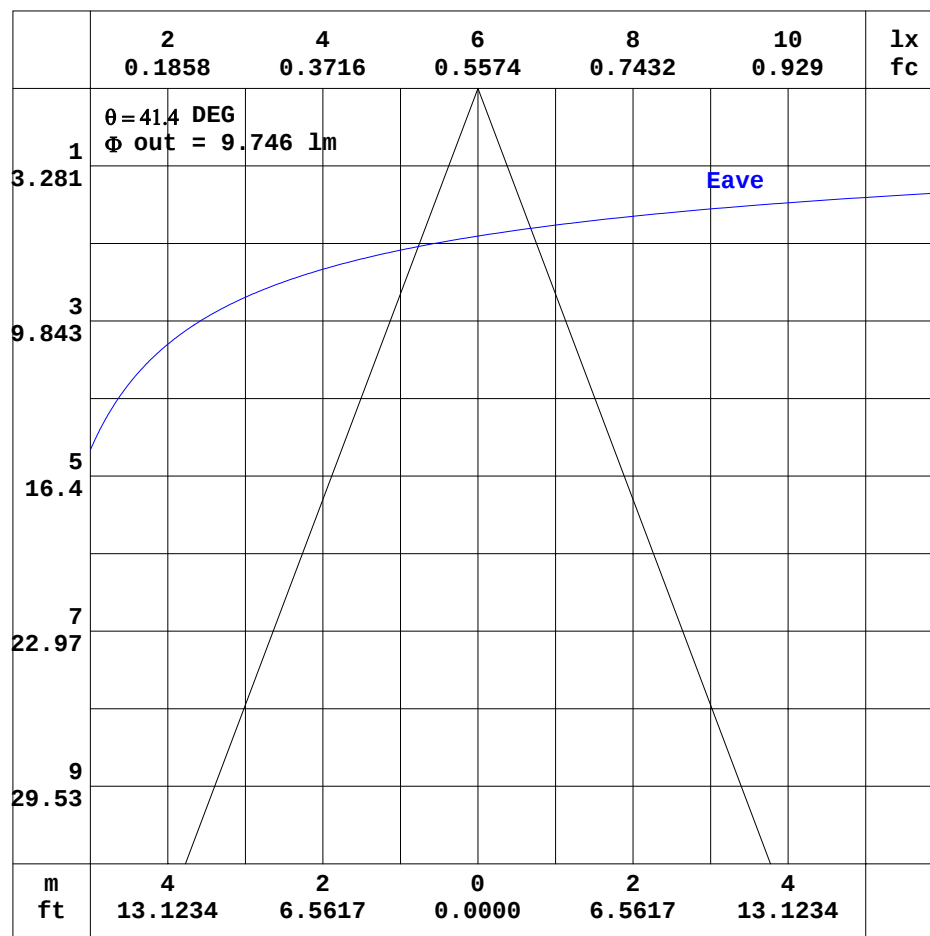


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



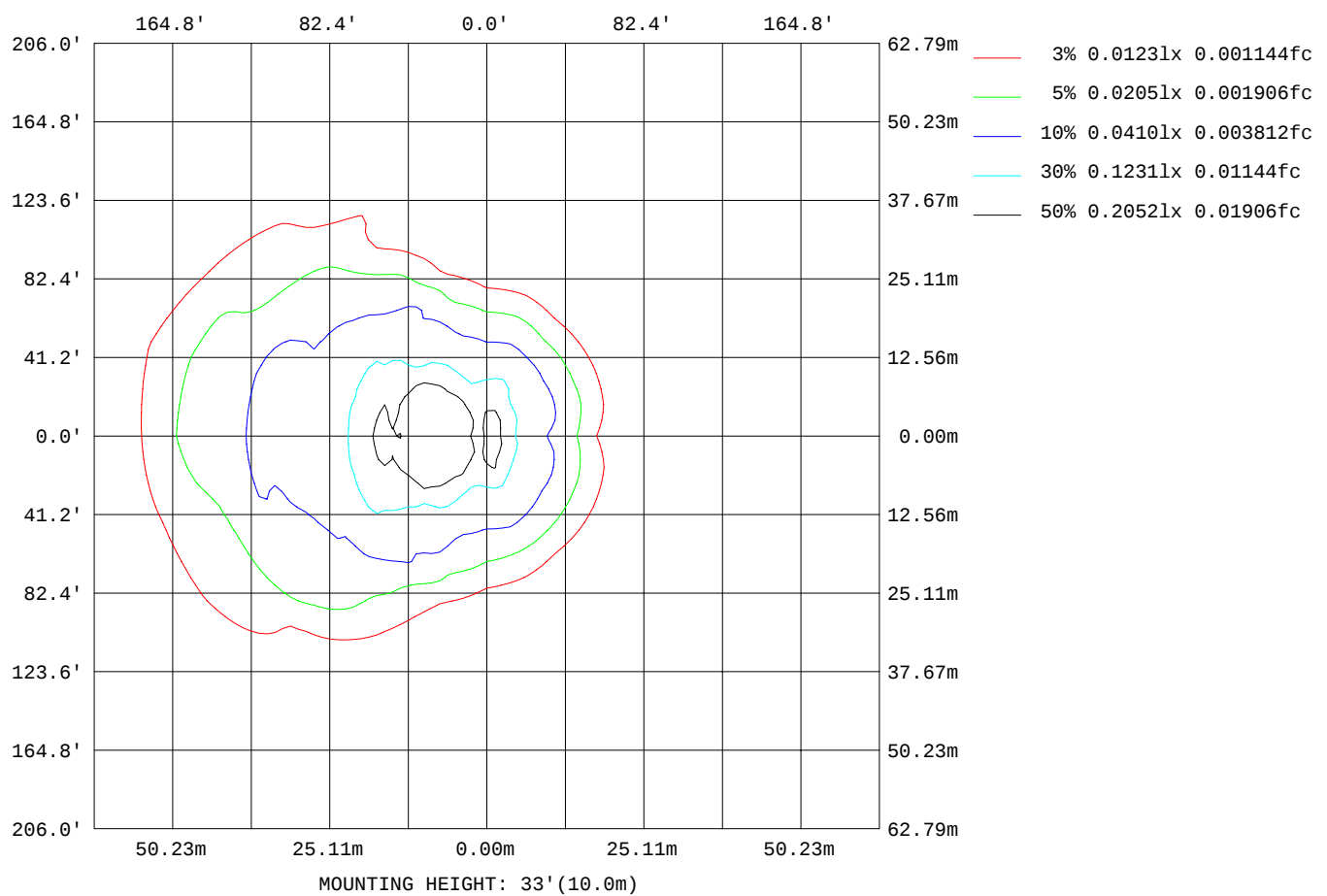
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

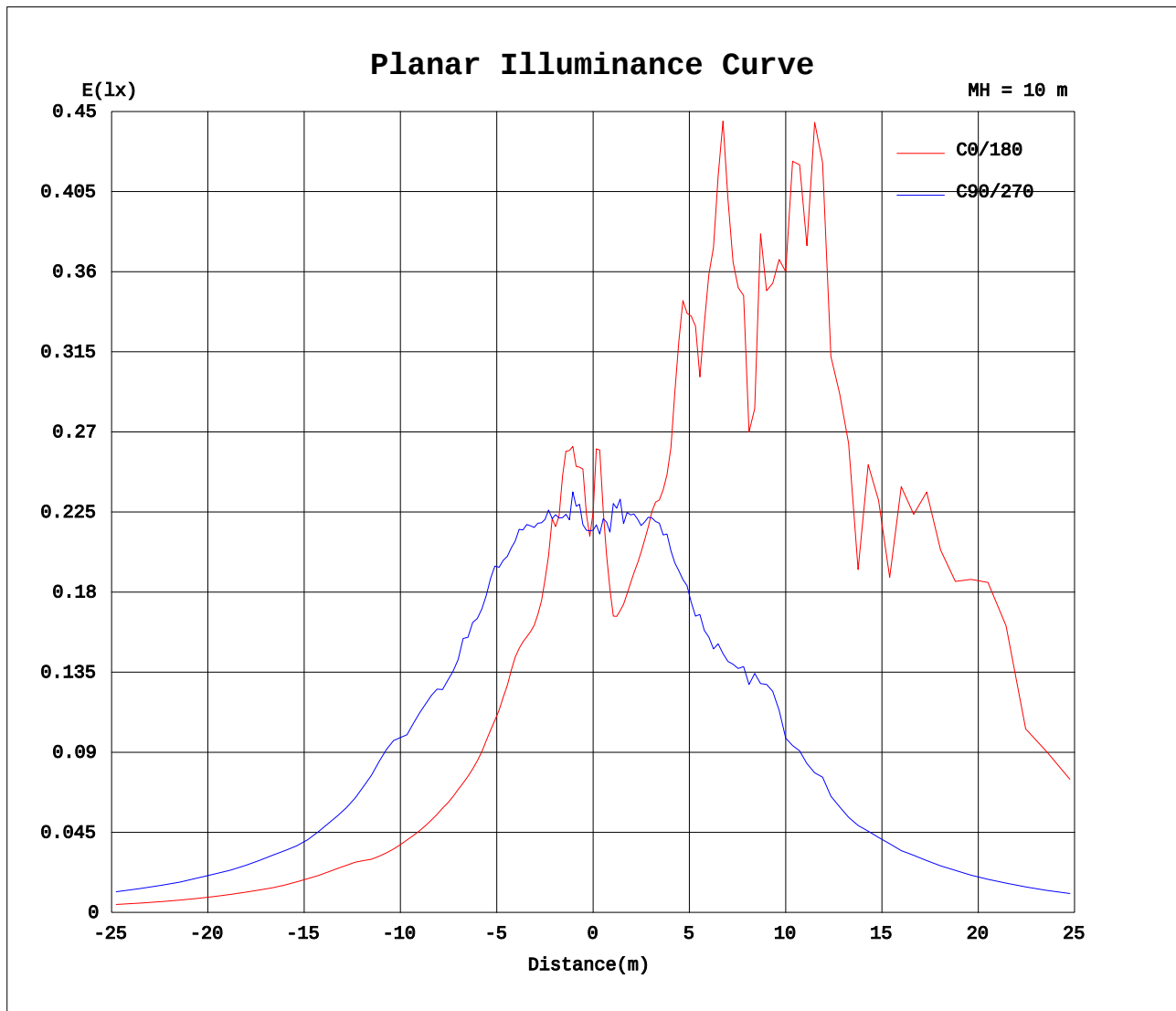
AvgL	cd/m2
L_0~180(65)av	2634
L_0~180(75)av	5582
L_0~180(85)av	9931
L_90~270(65)av	528
L_90~270(75)av	752
L_90~270(85)av	1900
L_45(65)av	1455
L_45(75)av	2718
L_45(85)av	7342

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm																		
NAME: ASD-LWS26S-13D12CC-BK 5000K										TYPE:LED					WEIGHT:			
SPEC.:										DIM.:					SERIAL No.:			
MFR.: ASD Lighting corp										SUR.:					PROTECTION ANGLE:			

Table--1

UNIT: cd

C(DEG) γ (DEG)	UNIT: cd																		
	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	22.5	22.9	22.5	23.3	23.3	21.2	21.5	22.1	22.7	21.7	22.0	21.6	22.5	22.9	22.5	23.3	23.3	21.2	21.5
5	25.4	24.5	26.2	25.3	22.7	21.3	23.1	28.8	22.2	20.6	19.3	20.0	18.4	18.4	19.4	20.2	21.9	24.6	21.6
10	23.3	25.2	28.6	28.7	25.9	25.9	23.2	23.4	20.0	18.5	18.7	18.5	18.7	19.0	18.6	18.6	18.6	22.3	23.5
15	19.4	20.0	23.9	23.7	27.2	27.2	24.3	23.1	20.5	21.6	23.2	23.3	23.2	23.7	23.0	21.8	20.1	20.9	24.3
20	18.3	19.9	19.4	20.8	23.8	26.0	25.9	22.8	23.1	26.4	30.0	28.9	28.6	30.1	28.3	25.9	22.7	20.8	25.6
25	16.2	19.4	19.1	19.0	23.0	29.9	26.6	22.4	26.0	32.0	36.9	46.3	46.2	44.4	35.4	30.8	25.6	21.6	25.1
30	13.9	16.3	17.2	19.2	22.2	31.6	26.3	23.1	29.7	37.8	43.7	46.6	50.9	53.9	44.6	38.4	29.0	22.7	24.4
35	12.6	15.0	15.9	19.2	21.9	26.9	25.9	24.3	33.1	45.7	66.5	86.8	72.9	70.7	67.7	48.5	33.5	24.4	25.7
40	11.6	14.3	15.3	19.1	21.6	28.5	27.1	25.6	35.6	54.7	58.5	70.3	63.0	79.4	60.4	47.8	37.8	26.0	29.9
45	10.8	13.7	15.3	18.5	20.8	29.6	27.8	27.7	44.0	64.8	76.0	98.4	102	86.0	85.7	59.5	45.8	28.8	27.7
50	11.0	13.8	15.6	17.4	20.4	27.7	26.7	29.8	54.9	72.5	93.3	144	159	131	120	73.1	48.3	30.6	28.7
55	11.0	13.5	15.0	16.8	19.3	25.3	24.0	28.8	53.4	70.4	108	110	133	111	107	87.7	55.4	30.0	24.2
60	10.2	13.1	13.7	15.8	18.1	22.2	23.4	29.2	52.1	91.5	140	159	189	166	118	95.1	53.1	29.8	23.4
65	9.28	12.4	14.1	15.5	16.8	20.5	22.7	32.1	53.5	109	203	199	213	207	187	107	55.7	29.5	22.0
70	8.10	11.5	13.5	14.3	15.8	19.1	21.5	31.2	53.1	98.7	103	157	170	178	128	102	61.0	28.8	19.6
75	7.30	11.1	13.1	13.4	14.6	17.5	19.9	33.9	70.3	130	177	247	282	265	188	125	65.4	28.8	19.0
80	3.96	8.40	11.2	11.8	14.1	17.3	18.8	30.1	72.0	127	185	205	205	221	154	125	72.2	28.0	18.0
85	2.40	6.65	9.15	9.70	12.0	15.7	17.2	30.3	55.9	120	99.3	148	171	178	134	118	57.2	26.5	15.9
90	2.33	7.14	9.76	9.44	11.3	13.5	15.0	29.9	63.2	116	134	200	230	246	133	97.6	98.0	24.6	13.4
95	2.28	5.39	8.49	9.94	11.4	14.7	17.0	28.4	45.7	104	117	169	151	175	157	87.2	53.6	26.3	15.9
100	2.24	2.81	5.15	7.50	9.46	10.3	16.2	31.8	67.4	140	96.5	104	143	110	128	125	74.5	29.2	13.7
105	2.18	2.21	2.34	5.89	8.16	8.57	14.9	28.2	68.0	139	174	165	212	179	175	120	64.5	24.8	12.3
110	2.10	2.14	3.21	2.58	4.49	6.83	12.3	22.3	46.3	69.1	111	137	125	117	127	94.0	54.4	22.0	11.6
115	2.02	2.05	2.82	3.04	1.82	2.96	6.50	9.70	39.5	81.5	128	127	133	88.5	169	100	40.9	13.8	7.87
120	1.93	1.96	2.02	3.75	3.09	2.13	2.82	5.38	21.5	65.0	149	136	182	120	129	57.7	29.3	5.30	2.77
125	1.86	1.89	1.86	2.85	4.16	5.13	5.94	7.84	21.5	52.5	50.7	107	106	100	62.2	85.0	24.5	4.03	2.32
130	1.82	1.83	1.79	1.90	3.57	4.70	6.79	8.00	10.1	40.1	103	88.3	112	111	104	61.2	17.7	7.42	5.38
135	1.76	1.76	1.72	1.54	2.25	3.03	4.60	5.21	3.87	15.5	60.1	57.8	90.5	75.6	56.9	19.4	7.68	4.71	3.80
140	1.73	1.71	1.66	1.48	1.34	1.43	2.36	2.18	1.12	10.6	25.1	28.6	33.1	36.1	42.5	15.9	2.19	2.20	1.89
145	1.68	1.66	1.61	1.43	1.30	1.06	0.96	0.91	0.96	1.09	9.70	22.7	48.0	46.0	19.3	3.41	1.03	0.93	0.98
150	1.64	1.61	1.54	1.39	1.25	1.03	0.96	0.92	0.97	1.11	1.26	6.32	18.1	20.3	7.17	1.21	1.04	0.93	0.98
155	1.64	1.58	1.51	1.34	1.22	1.03	0.96	0.94	0.97	1.12	1.26	1.41	3.15	1.67	1.44	1.21	1.05	0.93	0.97
160	1.64	1.58	1.48	1.30	1.19	1.00	0.95	0.95	1.02	1.14	1.26	1.41	1.79	1.64	1.44	1.21	1.07	0.93	0.97
165	1.64	1.58	1.46	1.27	1.16	0.99	0.95	0.97	1.03	1.15	1.27	1.41	1.74	1.63	1.44	1.21	1.07	0.93	0.97
170	1.64	1.58	1.44	1.26	1.14	0.99	0.95	0.98	1.04	1.16	1.27	1.41	1.73	1.62	1.44	1.21	1.09	0.94	0.97
175	1.66	1.59	1.44	1.26	1.12	0.99	0.95	0.98	1.04	1.17	1.27	1.41	1.71	1.61	1.44	1.22	1.10	0.96	0.97
180	1.66	1.59	1.43	1.26	1.11	0.99	0.96	0.98	1.05	1.17	1.28	1.39	1.68	1.58	1.44	1.23	1.11	0.98	0.97

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1043A P:12.32W PF:0.9837 Lamp Flux:520.449x1 lm		
NAME: ASD-LWS26S-13D12CC-BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	22.1	22.7	21.7	22.0	21.6													
5	21.2	23.1	25.4	25.6	25.1													
10	24.1	25.1	25.6	23.8	23.6													
15	29.2	26.3	23.7	24.1	19.2													
20	27.8	25.2	21.8	20.7	18.2													
25	28.0	22.8	21.1	19.1	17.4													
30	26.0	22.3	20.0	18.4	15.3													
35	30.9	21.4	18.9	16.7	14.7													
40	35.0	23.2	19.5	16.0	13.9													
45	30.2	23.2	18.6	15.8	14.2													
50	27.2	21.4	18.4	16.2	14.1													
55	25.5	19.9	17.7	15.3	13.5													
60	23.3	17.8	15.9	13.7	13.1													
65	21.4	16.7	15.3	13.8	12.2													
70	19.0	15.6	12.9	12.9	10.9													
75	17.5	14.3	12.3	12.0	9.30													
80	16.8	13.7	10.8	10.8	7.95													
85	14.6	11.9	8.86	8.94	5.88													
90	12.9	11.1	9.36	9.47	6.31													
95	14.9	11.8	9.29	7.60	4.45													
100	11.4	9.21	6.57	5.00	2.79													
105	9.22	8.43	6.17	2.42	2.17													
110	7.04	6.05	2.35	2.79	2.10													
115	3.38	2.14	2.04	2.55	2.00													
120	1.26	1.57	3.66	1.87	1.90													
125	2.06	3.51	2.46	1.77	1.83													
130	3.70	2.76	1.64	1.70	1.75													
135	2.69	1.86	1.54	1.63	1.68													
140	1.48	1.31	1.50	1.57	1.63													
145	1.13	1.28	1.43	1.49	1.56													
150	1.10	1.22	1.39	1.44	1.52													
155	1.08	1.18	1.34	1.40	1.47													
160	1.06	1.15	1.29	1.35	1.44													
165	1.04	1.11	1.25	1.33	1.42													
170	1.02	1.09	1.22	1.29	1.41													
175	1.01	1.06	1.19	1.28	1.41													
180	1.00	1.04	1.17	1.28	1.41													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks: