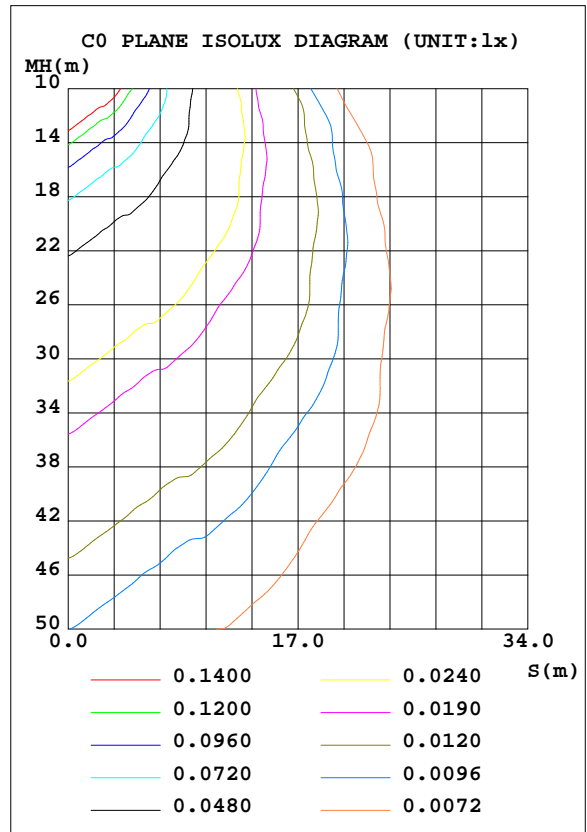
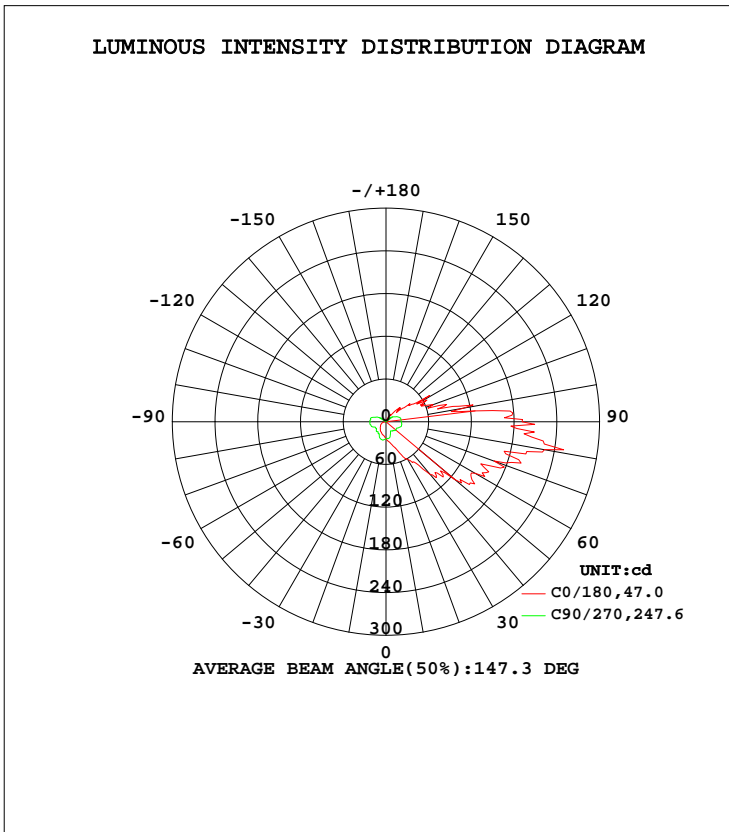


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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: 39.72 lm/W			
MODEL	PSZ2S220624007-10	I <sub>max</sub> (cd)	252.6	S/MH(C0/180)	4.18
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.89
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	463.54	η UP, DN(C0-180)	16.6, 24.0
NOMINAL FLUX(lm)	463.536	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	23.4, 36.0
LAMPS INSIDE	1	η up(%)	40.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	60.0	CIBSE SHR MAX	1.05



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-06-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 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	19.53	22.16	26.28	29.28	29.23	27.74	23.68	20.62	0- 10	2.329	2.329	0.50,0.50
20	17.58	21.23	24.67	34.39	39.61	31.11	18.40	18.40	10- 20	7.224	9.552	2.06,2.06
30	15.40	17.65	19.40	38.62	61.03	32.64	14.81	12.75	20- 30	12.11	21.66	4.67,4.67
40	12.41	13.97	18.05	47.42	96.92	41.04	15.76	10.56	30- 40	18.21	39.87	8.6,8.6
50	10.21	12.05	17.89	57.28	126.8	55.16	18.56	10.58	40- 50	27.33	67.21	14.5,14.5
60	8.501	9.230	17.16	62.15	144.7	76.84	17.78	9.991	50- 60	36.44	103.6	22.4,22.4
70	6.280	8.759	20.76	86.23	161.4	95.11	21.63	10.75	60- 70	47.83	151.5	32.7,32.7
80	3.354	10.52	22.60	88.97	226.0	111.1	22.42	12.69	70- 80	59.70	211.2	45.6,45.6
90	0.2058	10.50	22.24	86.80	191.1	108.7	21.71	11.75	80- 90	66.97	278.1	60,60
100	0.1790	10.51	22.09	89.78	110.5	98.18	21.33	11.50	90-100	60.31	338.5	73,73
110	0.1405	8.240	18.76	77.64	70.49	90.61	19.16	8.640	100-110	50.28	388.7	83.9,83.9
120	0.1087	5.030	13.03	50.44	49.92	69.64	14.25	6.089	110-120	35.81	424.5	91.6,91.6
130	0.0895	2.786	7.516	34.53	26.35	39.80	9.928	3.412	120-130	22.18	446.7	96.4,96.4
140	0.0768	0.4629	3.166	19.05	19.77	22.63	4.738	0.5555	130-140	11.39	458.1	98.8,98.8
150	0.0681	0.0998	0.4250	7.224	10.05	11.25	0.4336	0.0830	140-150	4.169	462.3	99.7,99.7
160	0.0599	0.0935	0.0923	1.783	2.506	3.674	0.0897	0.0748	150-160	1.108	463.4	100,100
170	0.0481	0.0686	0.0764	0.0923	0.1931	0.2002	0.0486	0.0552	160-170	0.1394	463.5	100,100
180	0.0350	0.0387	0.0420	0.0470	0.0339	0.0377	0.0441	0.0472	170-180	0.0058	463.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 52.338 lm

%lum = 11.3%  
%lamp = 11.3%

Conical surface Flux(120deg): 103.64 lm

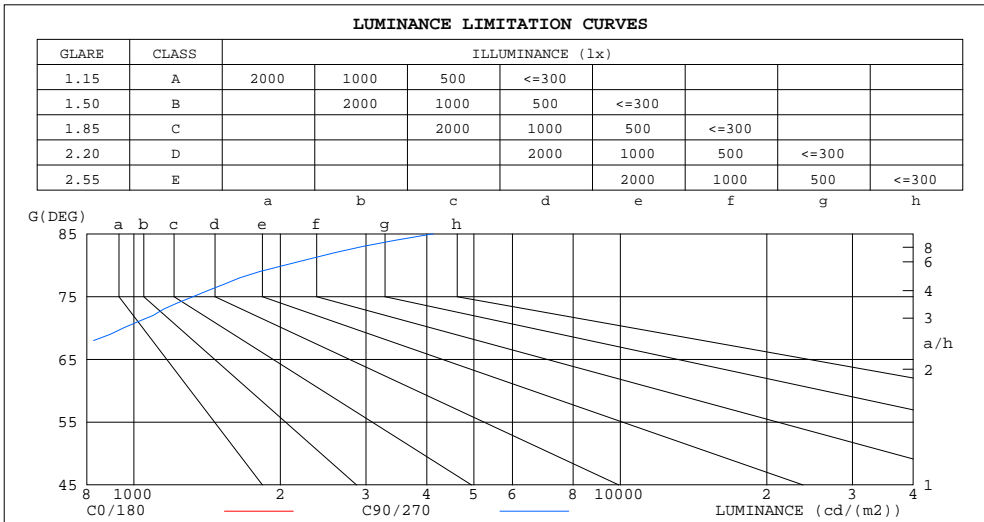
%lum = 22.4%  
%lamp = 22.4%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.8DEG  
Operators:Carl  
Test Date:2022-06-27

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:35%  
Test Distance:2.526m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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	52	4121
80	305	2042
75	303	1324
70	290	952
65	283	660
60	268	538
55	261	444
50	251	437
45	256	424

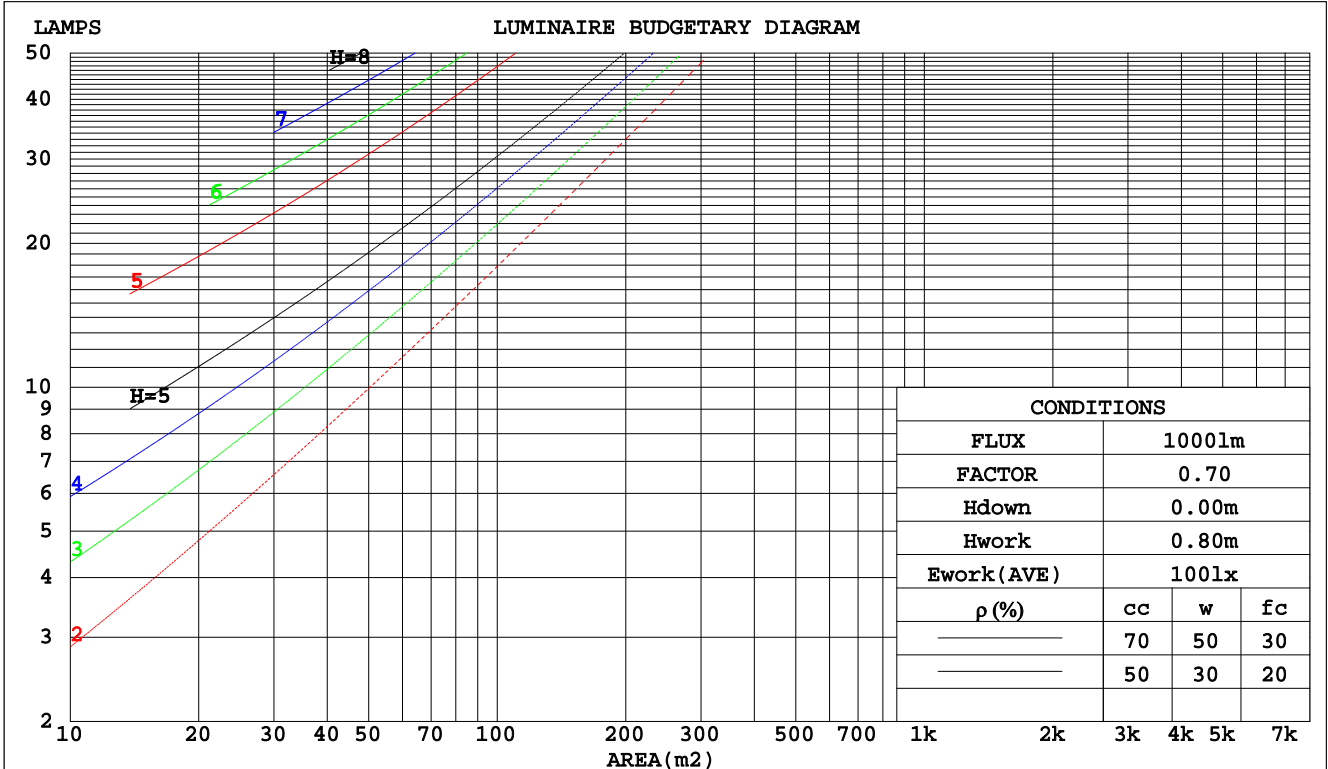
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.8DEG  
 Operators: Carl  
 Test Date: 2022-06-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.526m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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	1.10	1.10	1.10	1.02	1.02	1.02	.89	.89	.89	.77	.77	.77	.65	.65	.65	.60
1.0	.85	.79	.73	.79	.73	.68	.67	.62	.58	.56	.53	.49	.46	.44	.41	.36
2.0	.71	.62	.54	.65	.57	.50	.55	.49	.43	.46	.41	.36	.37	.33	.29	.25
3.0	.60	.50	.42	.56	.47	.39	.47	.39	.33	.39	.33	.28	.31	.26	.22	.18
4.0	.52	.42	.34	.48	.39	.32	.40	.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	.34	.25	.19	.28	.21	.16	.23	.18	.13	.19	.14	.10	.08
8.0	.33	.24	.18	.30	.22	.16	.26	.19	.14	.21	.16	.11	.17	.13	.09	.07
9.0	.30	.21	.15	.28	.20	.14	.23	.17	.12	.20	.14	.10	.16	.11	.08	.06
10.0	.27	.19	.14	.25	.18	.13	.22	.15	.11	.18	.13	.09	.15	.10	.07	.05



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.8DEG  
 Operators: Carl  
 Test Date: 2022-06-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.526m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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	.481	.273	.087	.461	.263	.084	.425	.244	.078	.391	.225	.072	.360	.208	.067	
2.0	.387	.212	.065	.369	.203	.063	.335	.187	.058	.304	.171	.053	.276	.156	.049	
3.0	.330	.176	.053	.314	.168	.051	.283	.153	.047	.255	.140	.043	.228	.126	.039	
4.0	.289	.150	.044	.274	.144	.042	.246	.131	.039	.220	.118	.036	.196	.107	.032	
5.0	.258	.131	.038	.244	.125	.037	.219	.114	.034	.195	.103	.031	.172	.092	.028	
6.0	.233	.117	.033	.221	.111	.032	.197	.101	.029	.175	.091	.027	.154	.081	.024	
7.0	.213	.105	.030	.201	.100	.029	.179	.091	.026	.159	.081	.024	.140	.073	.021	
8.0	.195	.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	.068	.019	.118	.060	.017	
10.0	.168	.081	.022	.159	.077	.021	.142	.069	.020	.125	.062	.018	.110	.055	.016	

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	.495	.495	.495	.423	.423	.423	.289	.289	.289	.166	.166	.166	.053	.053	.053	
1.0	.499	.462	.428	.427	.396	.368	.292	.273	.255	.168	.158	.148	.054	.051	.048	
2.0	.494	.441	.396	.423	.379	.342	.290	.262	.239	.167	.153	.140	.054	.049	.046	
3.0	.487	.426	.377	.418	.367	.327	.287	.255	.229	.166	.149	.135	.053	.048	.044	
4.0	.479	.414	.365	.411	.358	.317	.283	.249	.223	.164	.146	.132	.053	.048	.043	
5.0	.471	.405	.357	.405	.351	.310	.279	.245	.219	.161	.144	.130	.052	.047	.043	
6.0	.463	.398	.351	.398	.344	.305	.275	.241	.216	.159	.142	.128	.051	.046	.042	
7.0	.456	.391	.346	.392	.339	.302	.271	.238	.214	.157	.140	.127	.051	.046	.042	
8.0	.449	.386	.343	.386	.335	.299	.267	.235	.212	.156	.139	.127	.050	.045	.042	
9.0	.442	.382	.341	.381	.331	.297	.264	.233	.211	.154	.138	.126	.050	.045	.042	
10.0	.436	.378	.339	.376	.328	.296	.261	.231	.210	.152	.136	.125	.049	.045	.042	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-06-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm										
NAME: ASD-LWS24S-14D12CC-BK 4000K					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	0.4	1.7	1.2	2.5	3.5	3.2	4.4	4.0	5.3	6.3
3H	2.3	3.4	3.1	4.2	5.3	7.2	8.3	8.0	9.2	10.2
4H	3.2	4.3	4.0	5.2	6.2	9.6	10.7	10.4	11.5	12.6
6H	4.1	5.1	4.9	6.0	7.0	12.2	13.2	13.0	14.1	15.2
8H	4.4	5.4	5.2	6.2	7.3	13.6	14.6	14.4	15.5	16.6
12H	4.4	5.4	5.3	6.3	7.4	15.2	16.1	16.0	17.0	18.1
4H 2H	1.4	2.5	2.2	3.4	4.4	3.5	4.6	4.3	5.5	6.5
3H	3.5	4.4	4.3	5.3	6.4	7.6	8.6	8.5	9.5	10.6
4H	4.6	5.5	5.5	6.4	7.5	10.3	11.2	11.1	12.1	13.2
6H	5.7	6.5	6.5	7.4	8.5	13.1	13.9	14.0	14.9	16.0
8H	6.1	6.9	7.0	7.8	9.0	14.7	15.4	15.6	16.4	17.5
12H	6.4	7.1	7.3	8.1	9.2	16.4	17.1	17.3	18.1	19.2
8H 4H	6.1	6.9	7.0	7.8	9.0	10.5	11.2	11.4	12.2	13.3
6H	7.5	8.2	8.5	9.1	10.3	13.6	14.3	14.5	15.2	16.4
8H	8.3	8.9	9.3	9.9	11.1	15.4	16.0	16.3	16.9	18.1
12H	9.1	9.6	10.0	10.5	11.8	17.4	17.9	18.3	18.9	20.1
12H 4H	6.8	7.6	7.7	8.5	9.7	10.5	11.2	11.4	12.1	13.3
6H	8.5	9.1	9.4	10.1	11.3	13.7	14.3	14.6	15.2	16.4
8H	9.5	10.1	10.5	11.0	12.3	15.5	16.1	16.5	17.0	18.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 463.5 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.7)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-06-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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

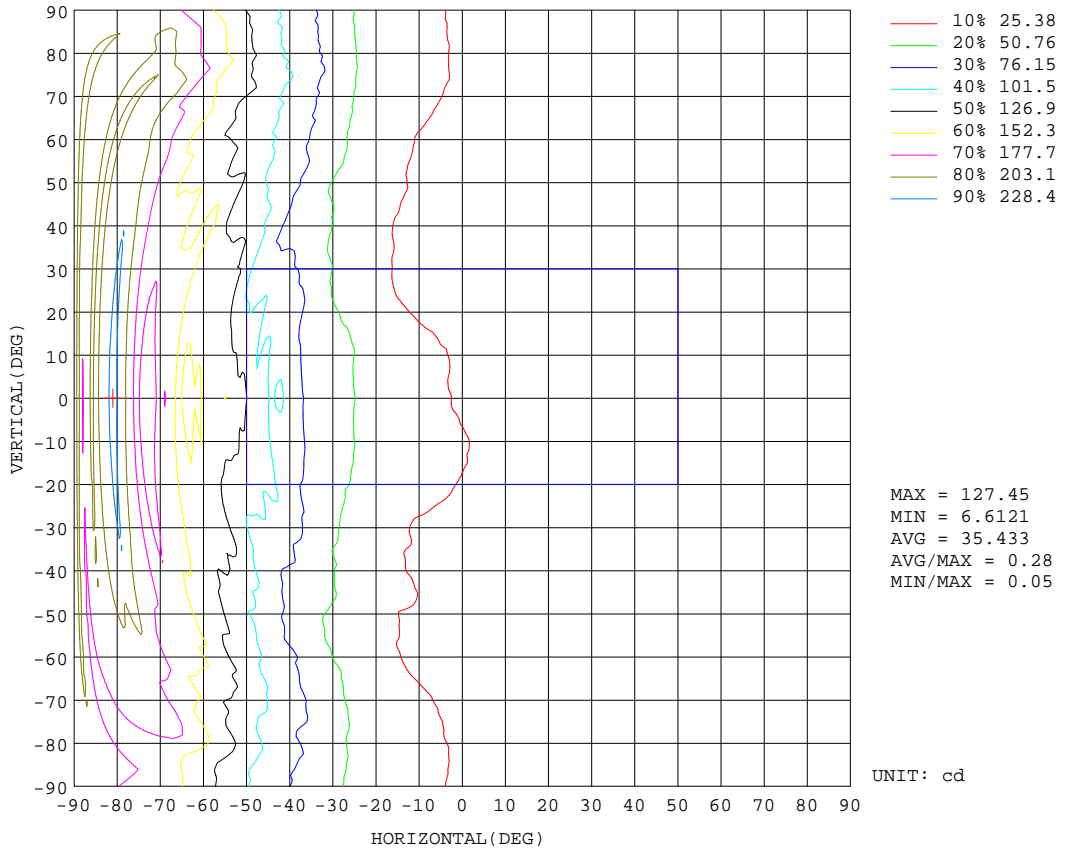
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	35	22	14	34	21	14	31	20	13	6
0.80	43	29	20	41	27	19	37	25	18	9
1.00	50	35	25	48	33	24	43	33	22	12
1.25	57	42	31	54	40	30	47	36	27	15
1.50	62	47	36	58	45	35	51	40	31	18
2.00	70	56	45	66	53	43	57	47	38	22
2.50	75	62	51	70	58	49	61	51	44	26
3.00	80	67	57	74	63	54	64	55	48	29
4.00	85	74	65	79	70	62	69	61	54	33
5.00	89	79	71	83	74	67	72	65	59	37
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:Carl  
 Test Date:2022-06-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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



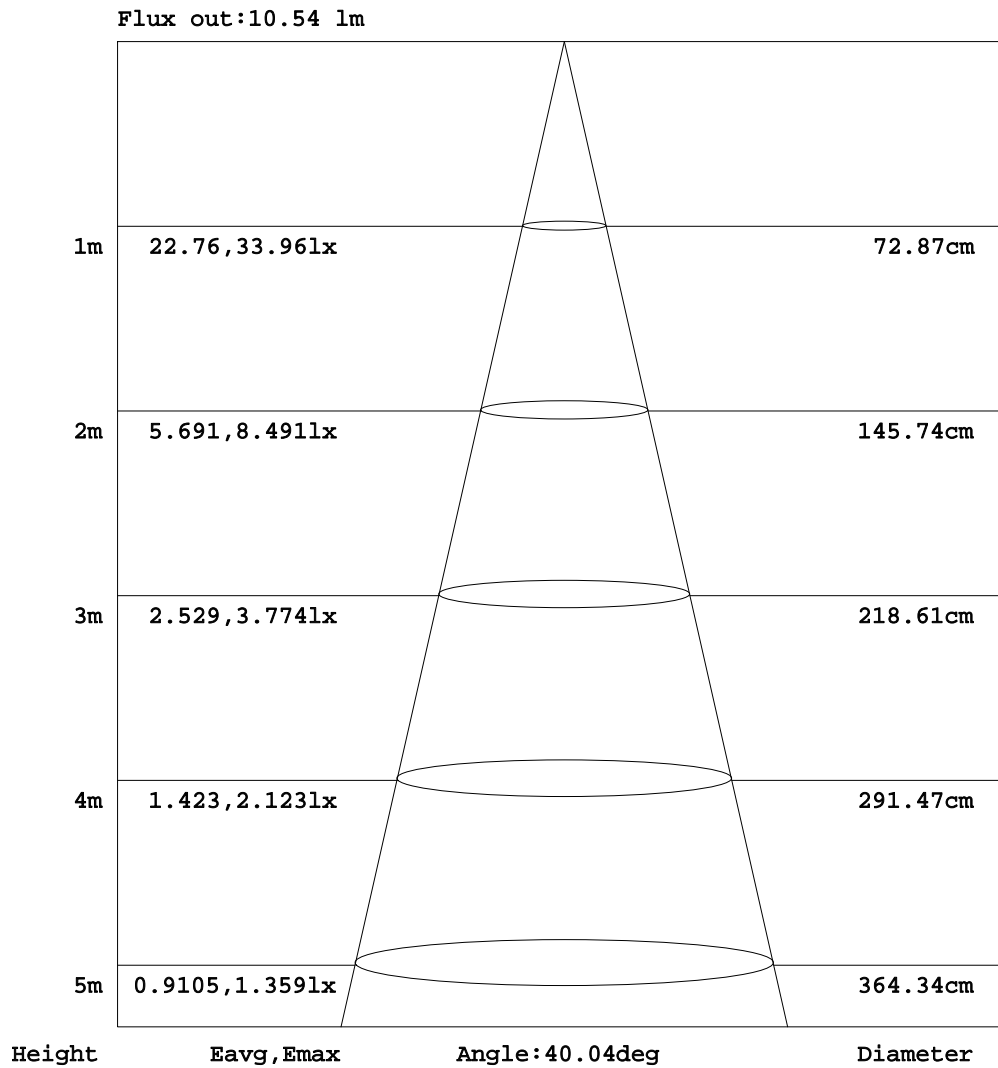
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-06-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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



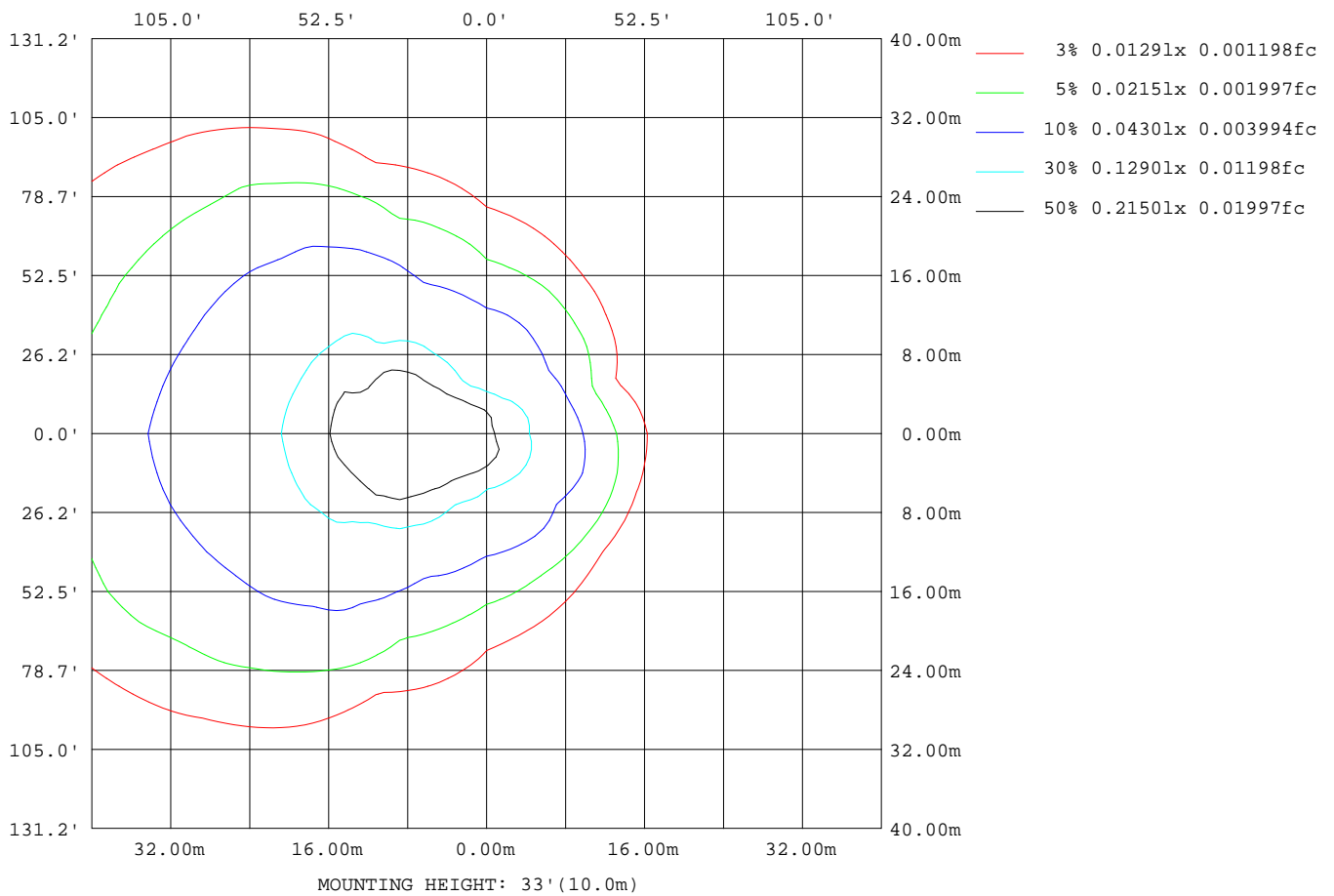
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-06-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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:Carl  
 Test Date:2022-06-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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

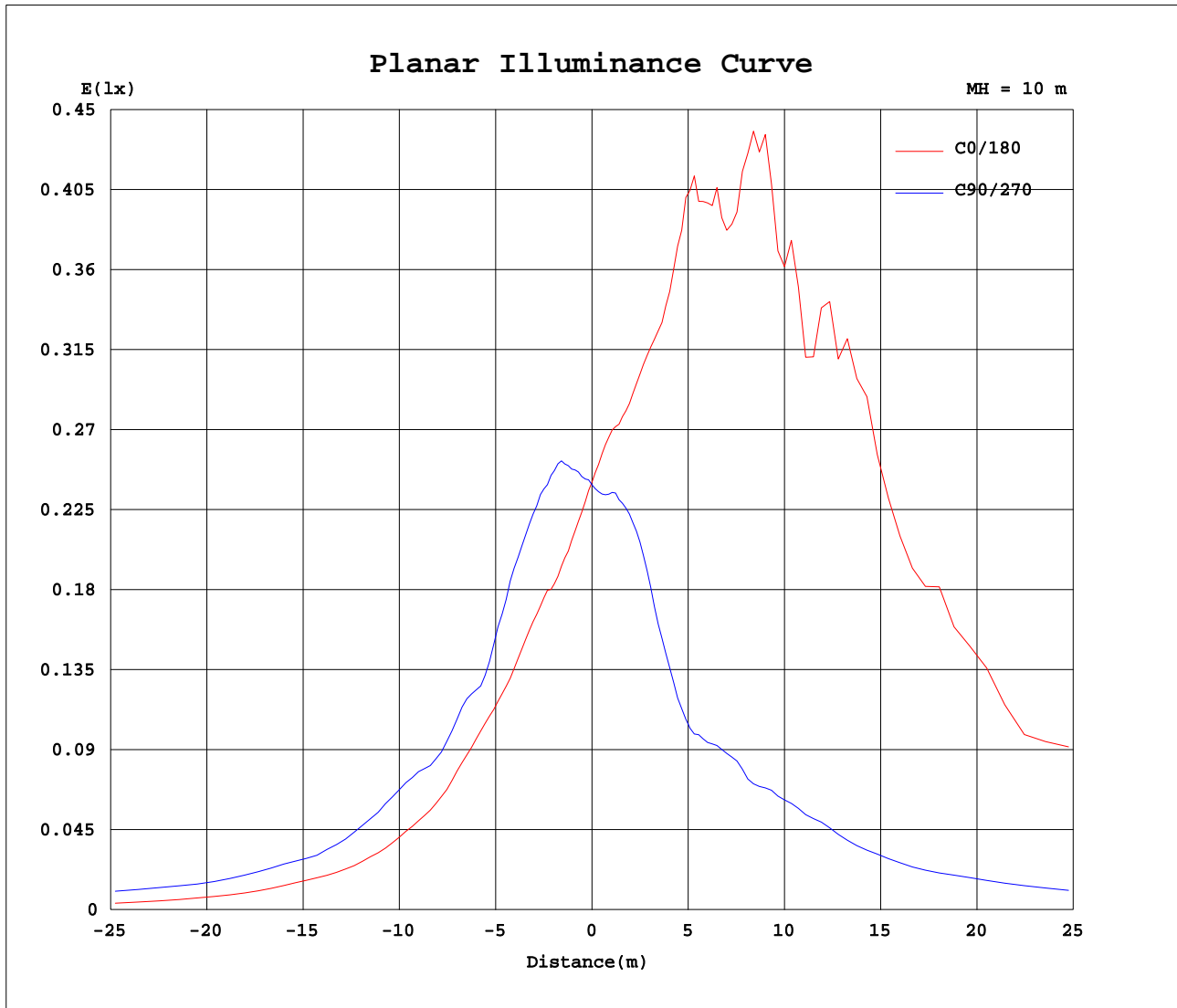
AvgL	cd/m2
L_0~180(65)av	2965
L_0~180(75)av	5435
L_0~180(85)av	17560
L_90~270(65)av	698
L_90~270(75)av	1355
L_90~270(85)av	4045
L_45(65)av	1658
L_45(75)av	3328
L_45(85)av	10181

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Carl  
 Test Date:2022-06-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.526m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.8DEG  
 Operators: Carl  
 Test Date: 2022-06-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.526m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.9V I:0.0992A P:11.67W PF:0.9808 Lamp Flux:463.536x1 lm		
NAME: ASD-LWS24S-14D12CC-BK 4000K	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	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9			
5	21.4	21.9	22.7	23.9	25.0	26.2	26.6	26.8	26.7	26.2	25.5	24.5	23.7	22.7	21.7	21.4			
10	19.5	20.4	22.2	24.2	26.3	28.8	29.3	29.6	29.2	28.5	27.7	25.8	23.7	21.9	20.6	19.7			
15	18.9	20.8	22.2	23.4	25.9	29.2	32.4	34.1	33.9	32.9	29.2	25.3	22.1	20.1	19.7	19.8			
20	17.6	19.7	21.2	21.8	24.7	28.6	34.4	39.4	39.6	37.7	31.1	22.4	18.4	16.6	18.4	18.4			
25	16.2	18.0	19.5	19.8	22.3	27.6	37.0	45.8	51.1	45.1	31.3	20.1	15.2	13.5	15.3	16.5			
30	15.4	16.4	17.6	17.5	19.4	25.3	38.6	57.4	61.0	56.2	32.6	18.7	14.8	12.3	12.8	15.6			
35	14.1	15.7	16.0	16.7	19.5	26.0	43.3	65.7	69.2	62.4	35.6	20.9	16.0	13.5	10.6	13.1			
40	12.4	14.7	14.0	16.0	18.1	26.1	47.4	75.3	96.9	69.1	41.0	22.9	15.8	13.5	10.6	11.2			
45	11.5	13.6	12.2	16.2	19.1	28.2	50.2	93.0	102	90.0	46.1	25.9	17.5	13.9	10.3	9.03			
50	10.2	11.6	12.0	14.8	17.9	28.1	57.3	97.6	127	101	55.2	27.9	18.6	14.8	10.6	7.59			
55	9.47	10.8	11.6	13.1	16.2	27.8	60.4	98.0	152	100	58.5	28.8	17.8	14.4	10.3	6.64			
60	8.50	8.43	9.23	12.7	17.2	28.3	62.1	133	145	136	76.8	31.1	17.8	14.0	9.99	6.69			
65	7.57	7.20	9.94	13.3	17.8	31.2	72.2	127	152	142	86.0	34.4	19.8	14.8	10.3	6.78			
70	6.28	6.78	8.76	14.0	20.8	35.2	86.2	151	161	146	95.1	38.4	21.6	16.1	10.7	6.76			
75	4.97	6.35	9.70	15.8	21.8	38.6	94.4	160	174	155	103	42.0	22.8	17.5	12.1	6.81			
80	3.35	5.74	10.5	16.4	22.6	40.4	89.0	173	226	181	111	43.1	22.4	17.2	12.7	7.31			
85	0.29	7.12	11.5	16.5	22.9	41.0	92.4	188	195	203	110	43.4	22.0	16.7	11.9	8.08			
90	0.21	6.91	10.5	16.1	22.2	40.3	86.8	162	191	185	109	43.0	21.7	16.2	11.7	7.58			
95	0.19	6.91	10.8	16.0	23.0	38.7	88.7	175	175	174	105	42.5	21.2	16.5	11.6	7.57			
100	0.18	5.56	10.5	16.6	22.1	39.4	89.8	170	111	178	98.2	41.4	21.3	16.3	11.5	6.44			
105	0.16	3.92	10.3	16.1	21.7	38.1	85.6	152	84.8	164	92.6	40.0	21.0	15.7	10.2	4.80			
110	0.14	2.66	8.24	13.8	18.8	31.0	77.6	125	70.5	131	90.6	35.8	19.2	14.3	8.64	3.36			
115	0.12	1.44	6.11	11.8	15.6	26.3	64.3	112	58.7	119	83.1	30.8	17.1	12.4	7.39	2.26			
120	0.11	0.43	5.03	9.48	13.0	21.3	50.4	125	49.9	114	69.6	26.1	14.2	10.7	6.09	0.94			
125	0.10	0.14	4.56	7.40	9.50	16.8	44.3	75.8	39.8	77.8	46.5	21.3	12.1	9.01	4.35	0.28			
130	0.09	0.12	2.79	5.96	7.52	13.2	34.5	66.5	26.4	65.1	39.8	16.9	9.93	7.24	3.41	0.15			
135	0.08	0.11	1.16	3.71	5.05	8.97	26.9	60.0	23.0	55.9	27.7	12.4	7.68	5.58	1.79	0.12			
140	0.08	0.10	0.46	2.20	3.17	5.57	19.1	28.2	19.8	36.5	22.6	7.70	4.74	3.27	0.56	0.10			
145	0.07	0.10	0.11	0.87	1.72	2.64	12.6	20.9	10.6	28.2	16.3	4.02	2.15	1.28	0.09	0.08			
150	0.07	0.09	0.10	0.11	0.42	0.85	7.22	12.6	10.0	18.9	11.3	2.51	0.43	0.16	0.08	0.07			
155	0.06	0.08	0.10	0.10	0.09	0.37	3.89	6.29	4.77	9.09	7.18	2.05	0.08	0.08	0.08	0.07			
160	0.06	0.08	0.09	0.10	0.09	0.15	1.78	2.30	2.51	3.20	3.67	1.39	0.09	0.07	0.07	0.06			
165	0.05	0.07	0.08	0.09	0.09	0.10	0.44	0.84	1.14	1.23	1.41	0.46	0.07	0.07	0.06	0.06			
170	0.05	0.06	0.07	0.07	0.08	0.07	0.09	0.16	0.19	0.20	0.20	0.08	0.05	0.05	0.06	0.05			
175	0.04	0.05	0.05	0.06	0.06	0.06	0.05	0.06	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05			
180	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05			

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 C Interval: 22.5DEG  
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γ Range: 0 - 180DEG  
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