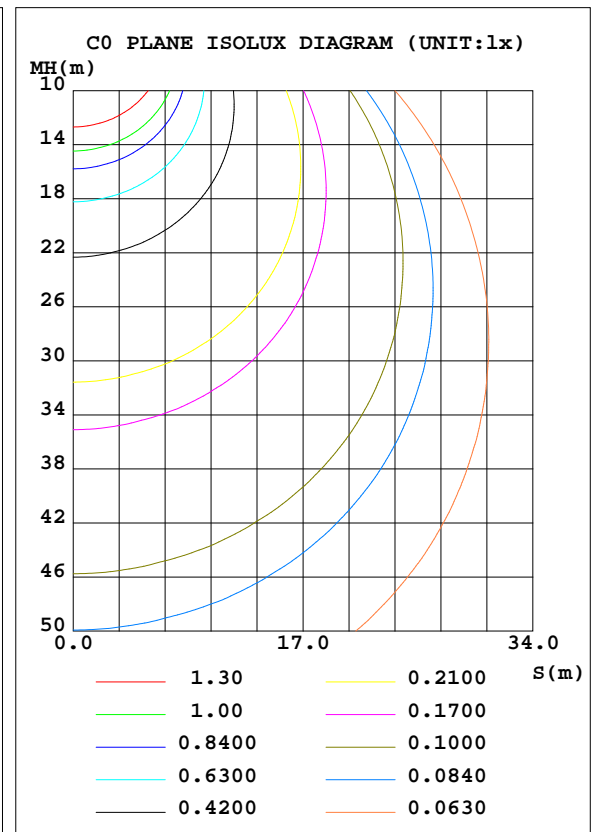
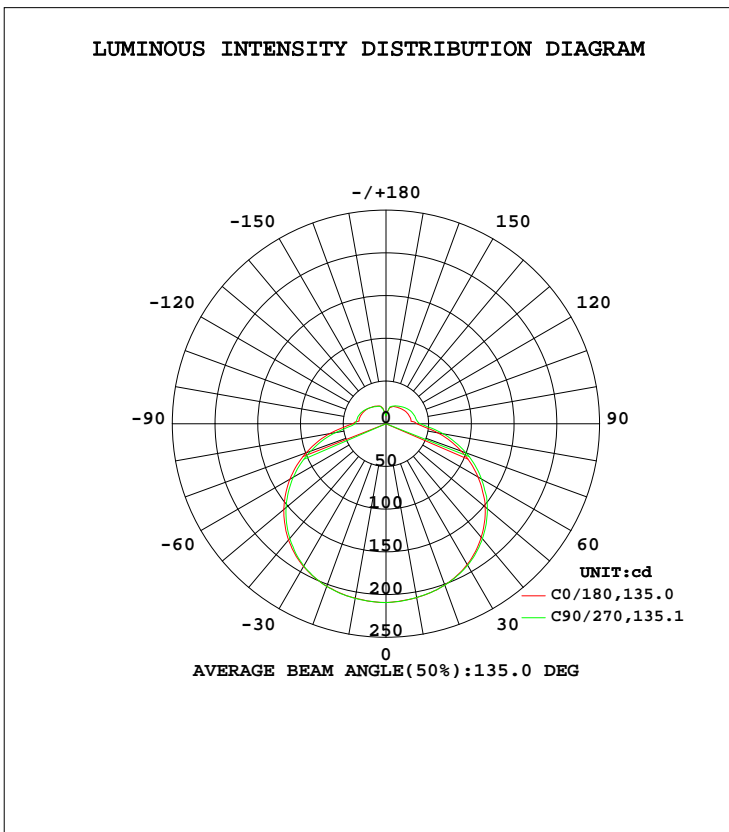


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME ASD-LFC-LF-12D20-AC-BK/NK	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: 48.74 lm/W			
MODEL	ASD-LFC-LF-12D20-AC-BK/NK	Imax(cd)	209.5	S/MH(C0/180)	1.35
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.36
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	971.33	$\eta$ UP, DN(C0-180)	9.3,40.3
NOMINAL FLUX(lm)	971.331	CIE CLASS	SEMI-D.	$\eta$ UP, DN(C180-360)	9.6,40.8
LAMPS INSIDE	1	$\eta$ up(%)	18.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	$\eta$ down(%)	81.1	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 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	207.3	207.7	207.6	207.1	206.7	206.4	206.5	206.7	0- 10	19.85	19.85	2.04,2.04
20	202.5	203.0	202.6	201.7	201.0	200.9	201.0	201.6	10- 20	57.96	77.81	8.01,8.01
30	193.1	193.1	192.2	191.2	190.2	190.8	191.2	191.9	20- 30	91.14	168.9	17.4,17.4
40	177.6	176.7	175.3	174.2	173.3	174.7	175.6	176.5	30- 40	115.4	284.4	29.3,29.3
50	156.2	154.5	152.7	151.4	151.5	153.9	154.9	155.7	40- 50	127.6	412.0	42.4,42.4
60	129.9	127.5	125.3	124.3	124.2	128.2	129.0	129.3	50- 60	126.2	538.1	55.4,55.4
70	99.53	96.12	93.76	93.01	93.76	98.82	99.74	99.90	60- 70	111.3	649.5	66.9,66.9
80	67.08	62.43	59.99	59.46	61.35	66.32	68.01	67.95	70- 80	85.22	734.7	75.6,75.6
90	39.28	37.49	36.40	35.57	36.34	39.23	40.29	40.45	80- 90	53.37	788.1	81.1,81.1
100	31.95	34.61	34.38	33.04	29.57	34.41	35.53	36.17	90-100	38.64	826.7	85.1,85.1
110	30.98	32.44	32.86	31.08	28.69	32.12	34.05	33.86	100-110	34.69	861.4	88.7,88.7
120	29.54	30.03	30.50	29.02	27.51	30.10	31.93	31.60	110-120	30.58	892.0	91.8,91.8
130	27.68	27.64	27.79	26.90	25.82	27.76	29.21	29.03	120-130	25.82	917.8	94.5,94.5
140	25.58	25.50	25.40	24.93	24.20	25.50	26.50	26.39	130-140	20.58	938.4	96.6,96.6
150	23.93	23.52	23.32	23.33	22.87	23.42	24.22	24.27	140-150	15.44	953.8	98.2,98.2
160	22.14	21.73	21.72	21.62	21.46	21.13	21.97	21.90	150-160	10.52	964.3	99.3,99.3
170	16.38	15.90	15.55	16.36	16.24	16.52	16.62	16.40	160-170	5.682	970.0	99.9,99.9
180	9.115	9.808	10.18	10.00	10.24	10.24	11.31	11.38	170-180	1.309	971.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 347.47 lm

%lum = 35.8%

%lamp = 35.8%

Conical surface Flux(120deg): 538.14 lm

%lum = 55.4%

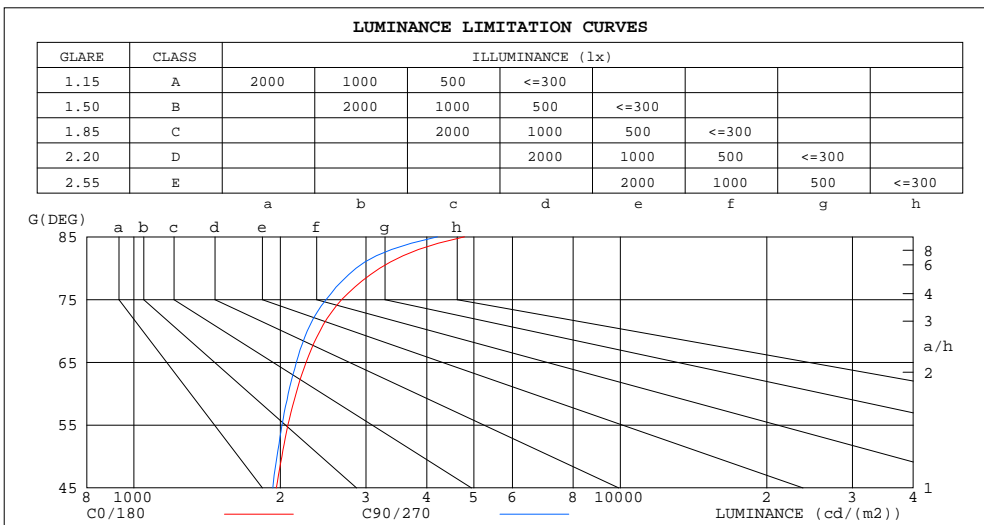
%lamp = 55.4%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC-BK/NK	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	4780	4206
80	3203	2863
75	2674	2485
70	2413	2272
65	2260	2157
60	2155	2077
55	2074	2016
50	2015	1969
45	1962	1930

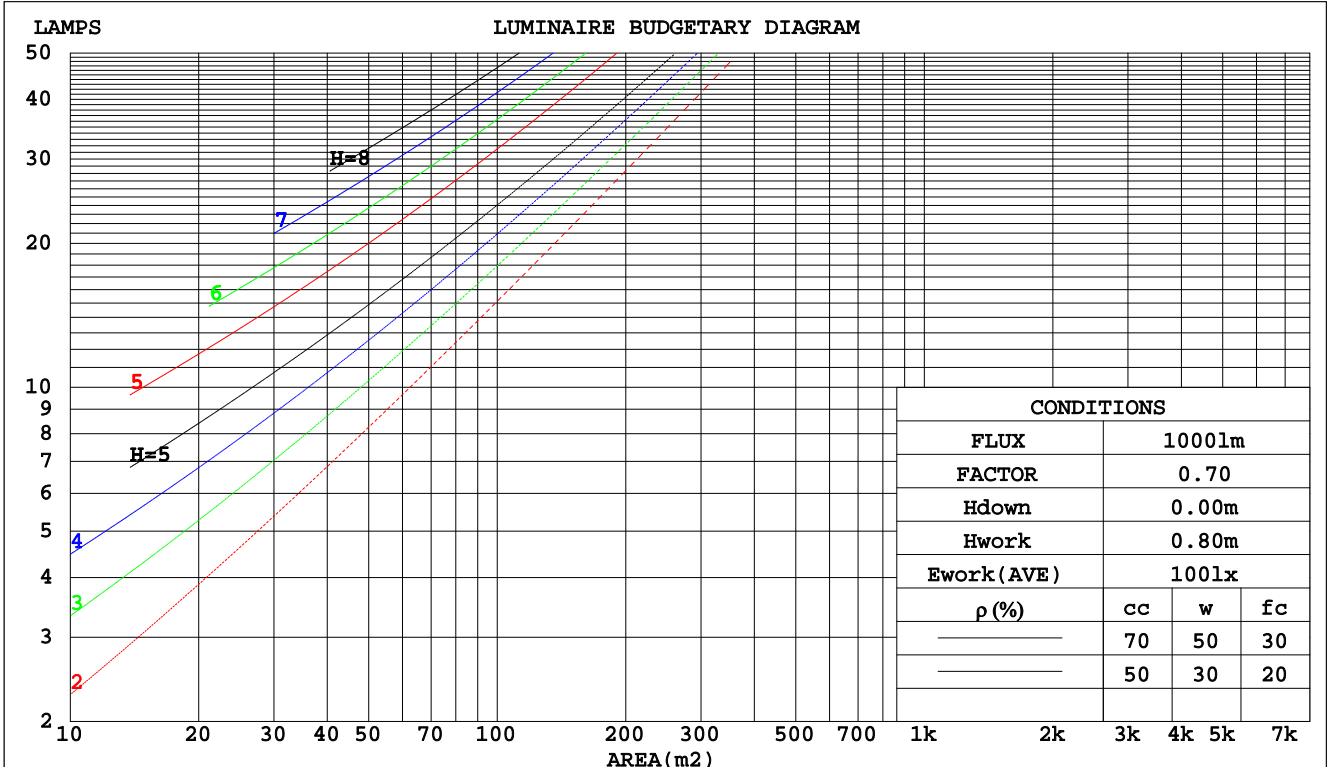
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Evan  
 Test Date: 2022-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 44%  
 Test Distance: 2.532m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC-BK/NK	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
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.92	.92	.92	.85	.85	.85	.81
1.0	.97	.92	.87	.92	.88	.84	.85	.81	.78	.78	.75	.72	.71	.69	.67	.63
2.0	.83	.75	.69	.79	.72	.67	.73	.67	.62	.66	.62	.58	.61	.57	.54	.51
3.0	.72	.63	.56	.69	.61	.54	.63	.56	.51	.58	.52	.48	.53	.48	.45	.42
4.0	.63	.54	.47	.61	.52	.45	.56	.48	.43	.51	.45	.40	.47	.42	.38	.35
5.0	.56	.47	.40	.54	.45	.39	.49	.42	.36	.45	.39	.34	.42	.36	.32	.30
6.0	.50	.41	.34	.48	.40	.33	.44	.37	.32	.41	.35	.30	.38	.32	.28	.26
7.0	.45	.36	.30	.43	.35	.29	.40	.33	.28	.37	.31	.26	.34	.29	.25	.22
8.0	.41	.32	.26	.39	.31	.26	.37	.29	.24	.34	.28	.23	.31	.26	.22	.20
9.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.31	.25	.21	.29	.24	.20	.18
10.0	.34	.26	.21	.33	.26	.21	.31	.24	.20	.29	.23	.19	.27	.22	.18	.16



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: LED luminaires	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	.362	.206	.065	.349	.199	.063	.325	.187	.060	.303	.175	.056	.282	.164	.053	
2.0	.321	.176	.054	.309	.170	.052	.287	.160	.050	.267	.150	.047	.249	.141	.044	
3.0	.288	.153	.046	.278	.149	.045	.258	.140	.043	.240	.131	.040	.223	.123	.038	
4.0	.261	.136	.040	.252	.132	.039	.234	.124	.037	.217	.117	.035	.202	.110	.033	
5.0	.239	.122	.035	.230	.118	.034	.214	.111	.033	.198	.105	.031	.184	.098	.030	
6.0	.219	.110	.031	.211	.107	.031	.196	.101	.029	.183	.095	.028	.169	.089	.026	
7.0	.203	.100	.028	.195	.097	.028	.182	.092	.026	.169	.087	.025	.157	.082	.024	
8.0	.188	.092	.026	.182	.089	.025	.169	.084	.024	.157	.080	.023	.146	.075	.022	
9.0	.176	.085	.024	.170	.083	.023	.158	.078	.022	.147	.074	.021	.137	.070	.020	
10.0	.165	.079	.022	.159	.077	.021	.148	.073	.020	.138	.069	.020	.129	.065	.019	

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	.334	.334	.334	.286	.286	.286	.195	.195	.195	.112	.112	.112	.036	.036	.036	
1.0	.329	.301	.275	.281	.258	.237	.192	.177	.164	.111	.103	.095	.035	.033	.031	
2.0	.322	.278	.240	.276	.239	.208	.189	.165	.145	.109	.096	.085	.035	.031	.028	
3.0	.315	.261	.218	.270	.225	.189	.185	.156	.133	.107	.091	.078	.034	.030	.026	
4.0	.307	.249	.204	.264	.215	.177	.181	.150	.125	.105	.088	.074	.034	.029	.024	
5.0	.300	.239	.194	.257	.207	.169	.177	.144	.119	.103	.085	.071	.033	.028	.023	
6.0	.292	.231	.187	.251	.200	.163	.173	.140	.115	.101	.082	.068	.032	.027	.023	
7.0	.286	.224	.181	.246	.194	.158	.170	.136	.112	.099	.080	.067	.032	.026	.022	
8.0	.279	.219	.177	.240	.190	.155	.166	.133	.110	.097	.079	.065	.031	.026	.022	
9.0	.273	.214	.174	.235	.186	.152	.163	.131	.108	.095	.077	.064	.031	.025	.021	
10.0	.267	.210	.172	.230	.182	.150	.160	.128	.106	.093	.076	.064	.030	.025	.021	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.33lx1 lm										
NAME: ASD-LFC-LF-12D20-AC					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	14.4	15.8	14.9	16.3	16.9	14.3	15.6	14.8	16.2	16.7
3H	16.5	17.8	17.1	18.3	18.9	16.3	17.6	16.9	18.1	18.7
4H	17.6	18.8	18.2	19.3	20.0	17.3	18.5	17.9	19.1	19.7
6H	18.7	19.8	19.3	20.4	21.0	18.3	19.4	18.9	20.0	20.7
8H	19.2	20.3	19.8	20.8	21.5	18.8	19.8	19.4	20.4	21.1
12H	19.7	20.8	20.4	21.4	22.1	19.3	20.3	19.9	20.9	21.6
4H 2H	15.1	16.3	15.7	16.9	17.5	15.0	16.2	15.6	16.8	17.4
3H	17.4	18.4	18.0	19.0	19.7	17.2	18.3	17.9	18.9	19.6
4H	18.6	19.6	19.3	20.2	20.9	18.4	19.3	19.0	20.0	20.7
6H	19.9	20.7	20.5	21.3	22.1	19.5	20.4	20.2	21.0	21.8
8H	20.5	21.3	21.1	21.9	22.7	20.1	20.9	20.8	21.5	22.3
12H	21.1	21.9	21.8	22.5	23.3	20.7	21.4	21.4	22.1	22.9
8H 4H	19.0	19.8	19.7	20.5	21.3	18.8	19.6	19.5	20.3	21.1
6H	20.5	21.2	21.2	21.9	22.7	20.2	20.9	20.9	21.6	22.4
8H	21.3	21.9	22.0	22.6	23.4	20.9	21.5	21.6	22.2	23.1
12H	22.1	22.6	22.9	23.4	24.2	21.7	22.2	22.4	22.9	23.8
12H 4H	19.1	19.8	19.8	20.5	21.3	18.9	19.6	19.6	20.3	21.1
6H	20.6	21.2	21.4	21.9	22.8	20.4	21.0	21.1	21.7	22.5
8H	21.5	22.0	22.2	22.7	23.6	21.2	21.7	21.9	22.4	23.3
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 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 971.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.1)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Evan  
Test Date:2022-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:44%  
Test Distance:2.532m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC	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

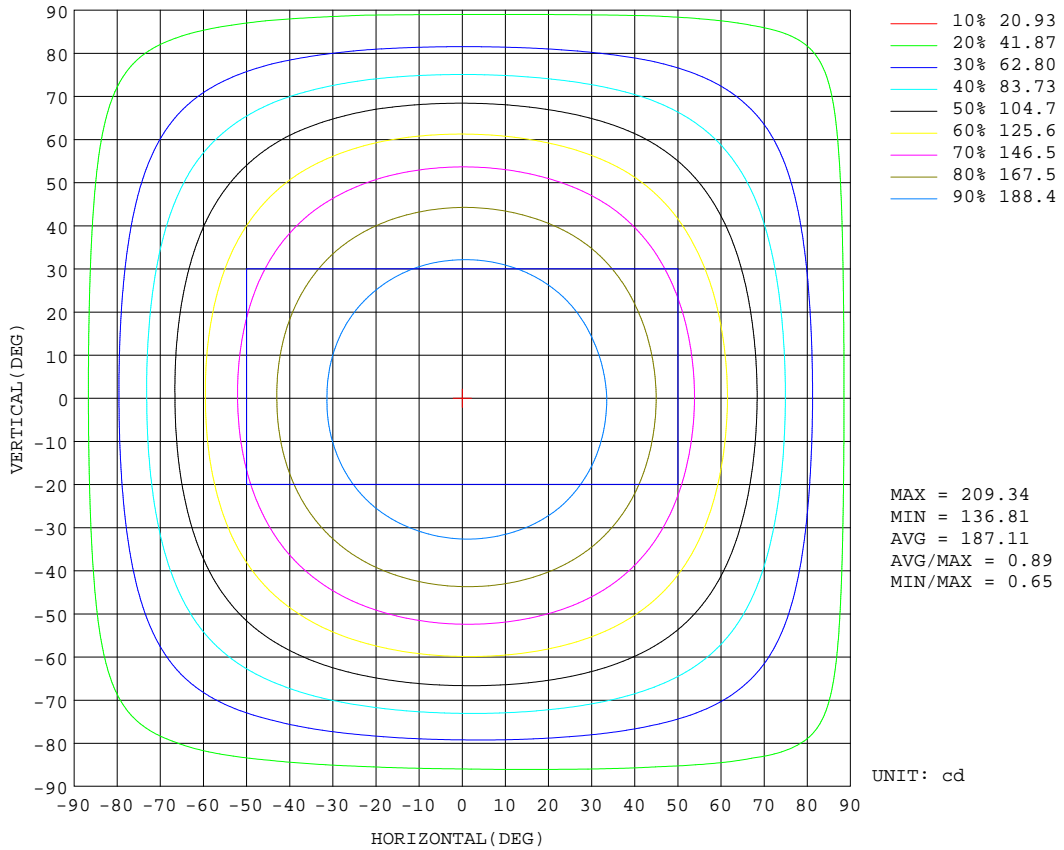
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	48	36	29	47	35	28	45	34	28	21
0.80	58	45	37	56	44	36	53	42	35	27
1.00	65	53	45	63	52	44	60	52	43	34
1.25	72	60	52	70	59	51	65	56	49	39
1.50	78	66	58	75	64	56	70	61	54	43
2.00	85	74	67	82	72	65	76	68	62	50
2.50	89	80	72	86	77	70	79	72	67	54
3.00	93	84	77	89	82	75	83	76	71	57
4.00	98	90	84	94	87	82	86	81	77	62
5.00	101	94	89	97	91	86	89	84	80	65
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:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC	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



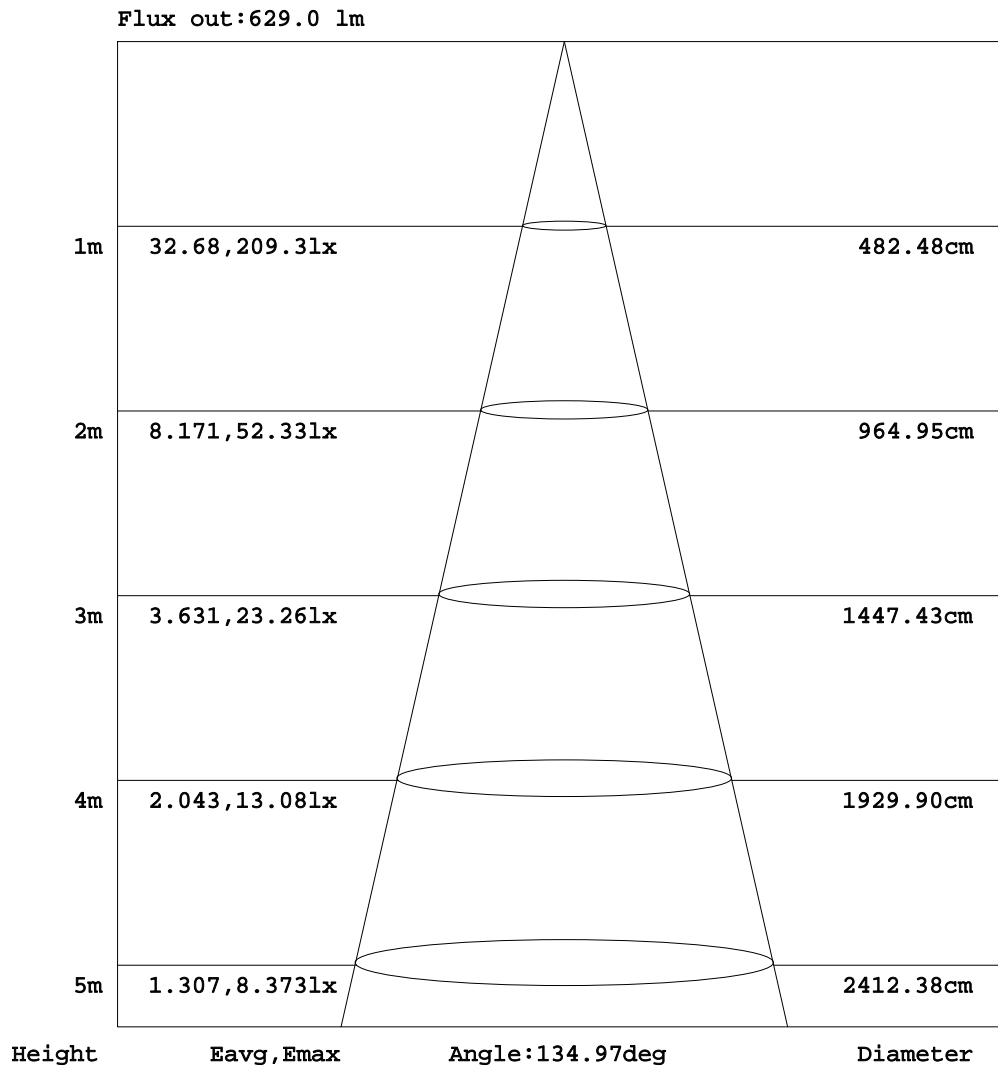
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC	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



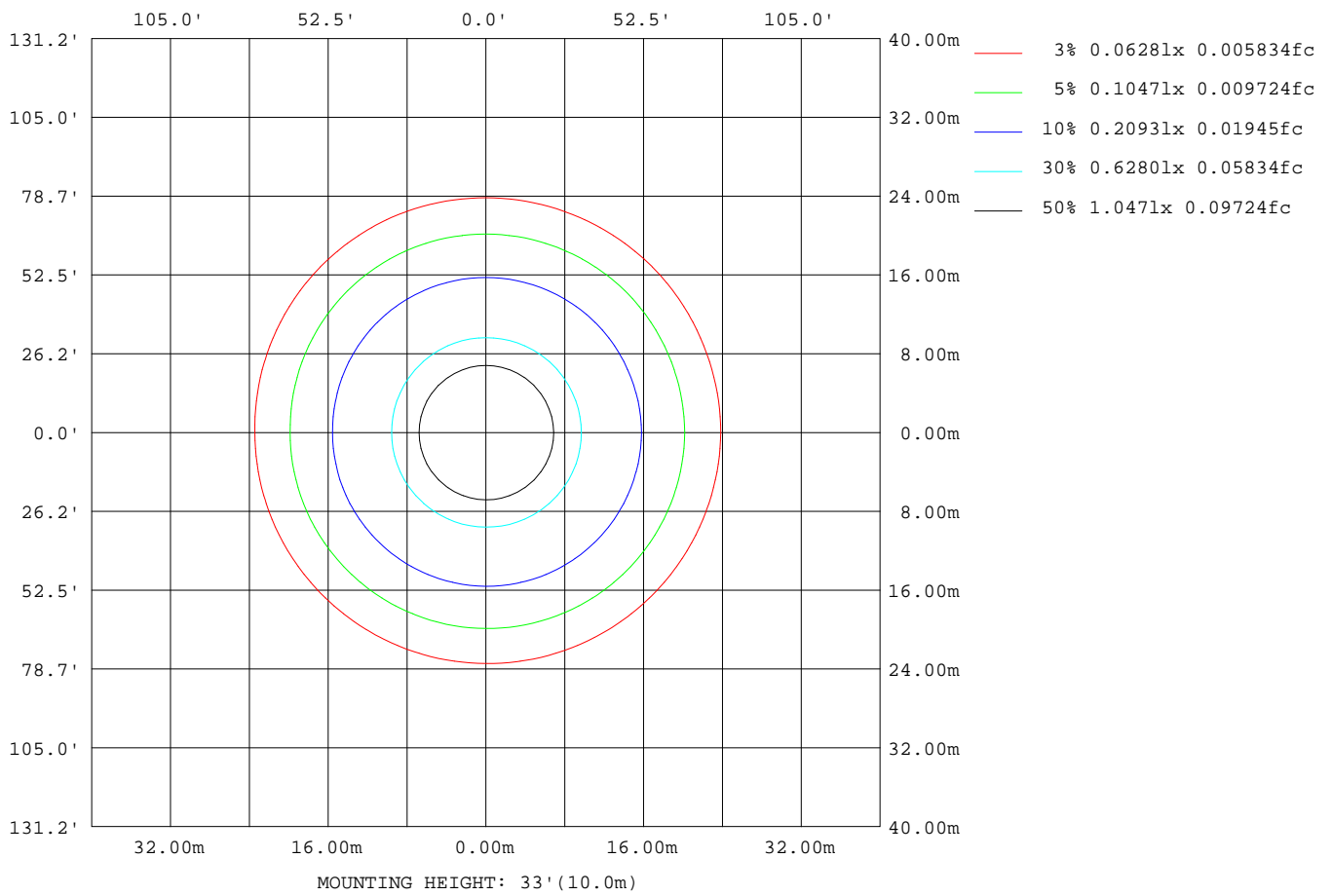
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC	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:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC	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

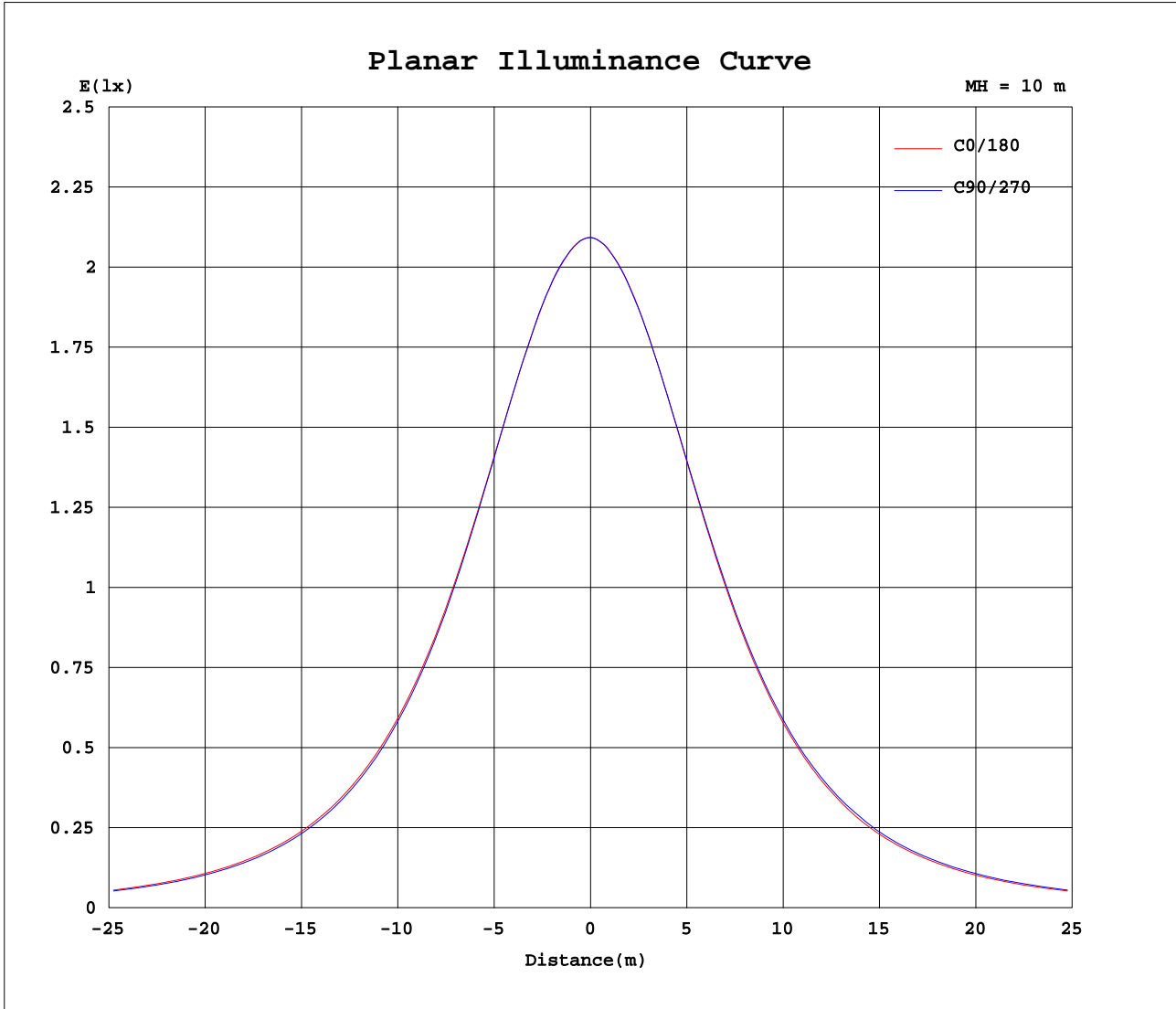
AvgL	cd/m2
L_0~180(65)av	2204
L_0~180(75)av	2584
L_0~180(85)av	4558
L_90~270(65)av	2205
L_90~270(75)av	2586
L_90~270(85)av	4549
L_45(65)av	2210
L_45(75)av	2590
L_45(85)av	4545

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Evan  
Test Date:2022-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:44%  
Test Distance:2.532m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Evan  
Test Date: 2022-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity: 44%  
Test Distance: 2.532m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1791A P:19.93W PF:0.9267 Lamp Flux:971.331x1 lm		
NAME: ASD-LFC-LF-12D20-AC	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	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209			
5	209	209	209	209	209	209	209	208	208	208	208	208	208	208	209	209			
10	207	208	208	208	208	207	207	207	207	206	206	206	207	206	207	207			
15	205	206	206	206	206	205	205	205	204	204	204	204	204	204	205	205			
20	203	203	203	203	203	202	202	201	201	201	201	201	201	201	202	202			
25	198	199	199	199	198	198	197	197	196	196	197	197	197	197	198	198			
30	193	193	193	193	192	192	191	191	190	190	191	191	191	191	192	192			
35	186	186	186	185	185	184	183	183	183	183	183	184	184	184	185	185			
40	178	177	177	176	175	175	174	174	173	174	175	175	176	176	177	177			
45	167	167	166	165	165	164	164	163	163	164	165	165	166	166	167	167			
50	156	155	155	154	153	152	151	152	152	153	154	155	155	155	156	156			
55	143	143	141	141	139	139	139	139	138	140	141	142	143	143	143	143			
60	130	129	127	126	125	125	124	125	124	127	128	129	129	129	129	129			
65	115	114	112	111	110	109	109	110	110	112	114	115	115	115	115	115			
70	99.5	97.7	96.1	94.8	93.8	93.1	93.0	93.5	93.8	96.7	98.8	99.9	99.7	99.5	99.9	99.2			
75	83.5	81.5	79.6	78.4	77.6	76.9	76.9	77.4	77.9	80.7	82.8	83.9	83.9	83.9	84.2	83.4			
80	67.1	64.4	62.4	61.1	60.0	59.4	59.5	60.6	61.3	64.0	66.3	67.8	68.0	68.0	67.9	67.0			
85	50.2	47.8	46.3	45.1	44.2	43.7	43.7	44.4	45.6	47.5	49.7	51.2	51.4	51.6	51.5	50.4			
90	39.3	38.3	37.5	37.0	36.4	35.8	35.6	35.7	36.3	37.8	39.2	40.2	40.3	40.3	40.4	39.8			
95	33.0	35.8	35.5	35.3	34.8	34.2	33.7	33.3	30.9	34.7	35.9	36.7	36.8	37.0	37.3	36.9			
100	31.9	33.7	34.6	34.6	34.4	33.6	33.0	31.7	29.6	32.8	34.4	35.1	35.5	35.9	36.2	35.0			
105	31.6	31.3	33.5	33.8	33.9	32.9	32.0	29.8	29.3	30.6	33.3	34.3	34.9	35.2	35.1	32.7			
110	31.0	30.0	32.4	32.8	32.9	32.0	31.1	28.4	28.7	29.3	32.1	33.4	34.1	34.3	33.9	31.2			
115	30.3	29.6	31.3	31.7	31.7	31.0	30.1	27.7	28.2	28.3	31.2	32.4	33.1	33.2	32.8	30.4			
120	29.5	28.7	30.0	30.6	30.5	30.0	29.0	27.1	27.5	27.6	30.1	31.2	31.9	32.0	31.6	29.5			
125	28.7	27.9	28.7	29.4	29.2	28.9	27.9	26.5	26.8	27.0	28.9	30.1	30.6	30.8	30.3	28.5			
130	27.7	27.1	27.6	28.2	27.8	27.7	26.9	25.9	25.8	26.1	27.8	28.9	29.2	29.5	29.0	27.5			
135	26.6	26.0	26.5	26.9	26.6	26.4	25.9	25.1	25.0	25.3	26.6	27.6	27.8	28.2	27.7	26.4			
140	25.6	25.2	25.5	25.7	25.4	25.3	24.9	24.4	24.2	24.5	25.5	26.3	26.5	26.8	26.4	25.4			
145	24.8	24.4	24.6	24.7	24.4	24.6	24.1	23.8	23.6	23.7	24.4	25.2	25.3	25.6	25.2	24.6			
150	23.9	23.4	23.5	23.6	23.3	23.5	23.3	23.1	22.9	22.8	23.4	24.1	24.2	24.5	24.3	23.7			
155	23.0	22.6	22.6	22.8	22.6	22.6	22.5	22.4	22.4	22.1	22.4	22.9	23.1	23.2	23.2	22.8			
160	22.1	21.9	21.7	21.8	21.7	21.7	21.6	21.5	21.5	20.8	21.1	21.7	22.0	22.0	21.9	21.8			
165	20.1	20.0	19.8	19.5	19.2	19.3	20.2	20.0	19.8	19.8	20.1	20.5	20.7	20.6	20.5	20.3			
170	16.4	16.1	15.9	15.7	15.6	16.1	16.4	16.5	16.2	16.3	16.5	16.7	16.6	16.4	16.4	16.7			
175	12.4	12.4	12.4	12.0	12.0	12.7	12.7	12.9	12.7	12.8	12.8	13.0	13.1	12.7	12.7	12.9			
180	9.11	9.61	9.81	10.5	10.2	10.7	10.00	9.31	10.2	10.2	10.2	10.7	11.3	11.2	11.4	10.8			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-21

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