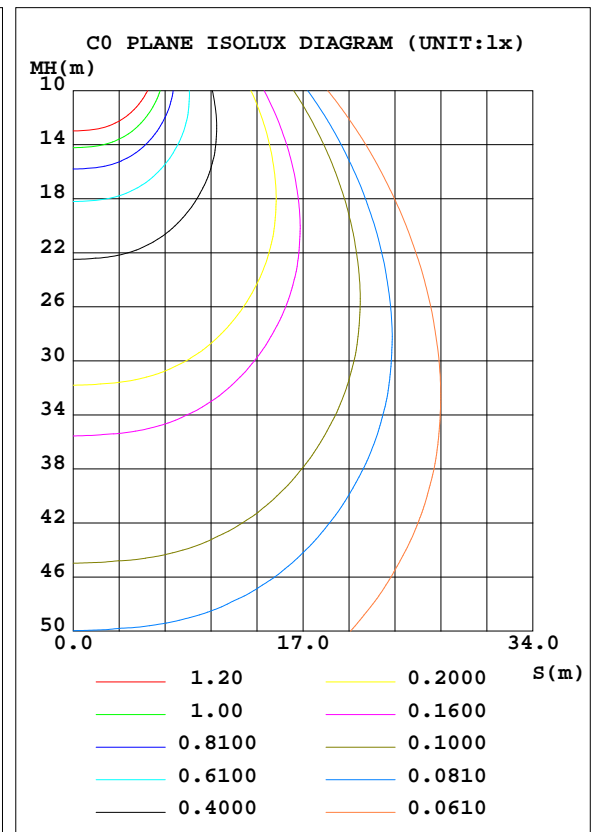
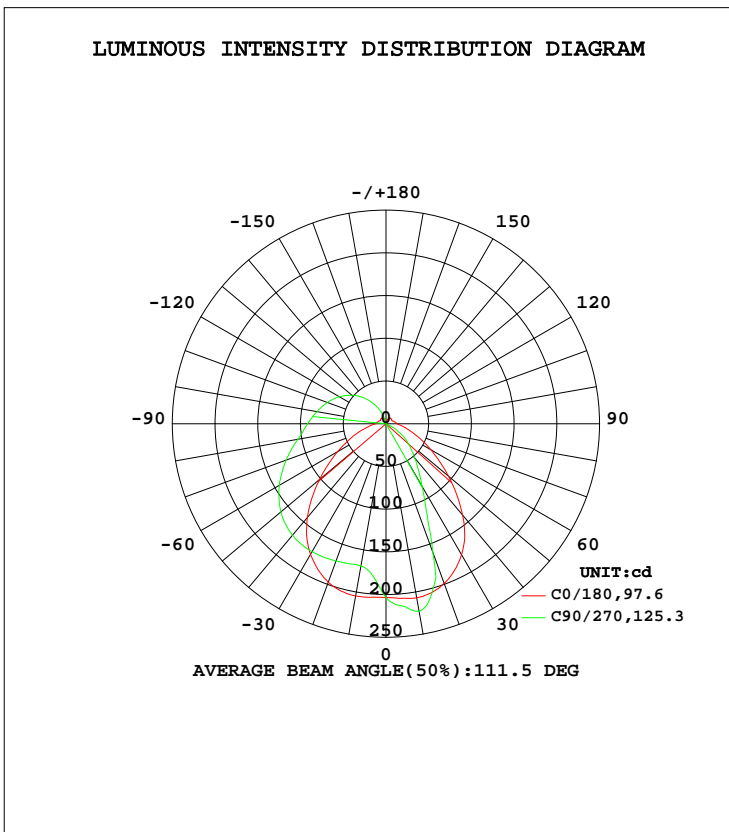


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.96 lm/W			
MODEL	PSZ2GH221125002-10	I <sub>max</sub> (cd)	224.8	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	742.50	η UP, DN(C0-180)	18.9,54.8
NOMINAL FLUX(lm)	742.497	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	1.2,25.1
LAMPS INSIDE	1	η up(%)	20.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	79.9	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	204.7	174.7	169.1	175.1	206.7	220.7	222.9	218.3	0- 10	19.04	19.04	2.56,2.56
20	197.4	173.1	171.1	172.4	198.9	210.2	161.0	210.1	10- 20	55.02	74.06	9.98,9.98
30	176.7	172.2	173.0	170.9	177.0	137.6	84.79	140.8	20- 30	78.56	152.6	20.6,20.6
40	143.3	167.5	170.3	165.8	139.5	79.52	52.62	81.85	30- 40	89.07	241.7	32.6,32.6
50	101.5	158.6	160.6	156.5	95.45	48.54	32.33	49.77	40- 50	90.29	332.0	44.7,44.7
60	65.51	144.8	144.2	142.8	60.42	27.91	12.61	28.80	50- 60	83.37	415.4	55.9,55.9
70	39.33	127.6	124.2	125.7	35.72	7.352	0.0983	7.996	60- 70	71.33	486.7	65.5,65.5
80	21.73	108.4	104.8	106.8	21.09	1.936	0.1259	1.096	70- 80	58.49	545.2	73.4,73.4
90	11.95	92.91	91.77	92.12	13.23	1.126	0.1700	0.6920	80- 90	48.07	593.2	79.9,79.9
100	10.65	80.95	82.12	80.26	11.13	0.9435	0.1849	0.6500	90-100	41.08	634.3	85.4,85.4
110	9.139	69.20	73.14	68.74	9.142	0.6103	0.1472	0.4804	100-110	34.52	668.8	90.1,90.1
120	7.793	57.04	63.34	56.66	7.869	0.3630	0.1223	0.2382	110-120	27.54	696.4	93.8,93.8
130	8.175	44.70	52.05	44.39	8.467	0.1118	0.1214	0.1235	120-130	20.38	716.8	96.5,96.5
140	8.428	31.80	39.31	31.59	8.522	0.2451	0.1200	0.1673	130-140	13.68	730.4	98.4,98.4
150	8.176	18.75	25.24	18.61	8.092	0.8942	0.1394	0.5251	140-150	7.807	738.2	99.4,99.4
160	6.058	6.632	11.02	6.570	5.502	2.413	0.1961	0.5395	150-160	3.424	741.7	99.9,99.9
170	1.353	1.298	0.4549	1.184	0.9343	0.7271	0.2282	0.2654	160-170	0.7863	742.4	100,100
180	0.2931	0.3073	0.3158	0.3310	0.3004	0.2999	0.3142	0.3188	170-180	0.0517	742.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 287.32 lm

%lum = 38.7%  
%lamp = 38.7%

Conical surface Flux(120deg): 415.35 lm

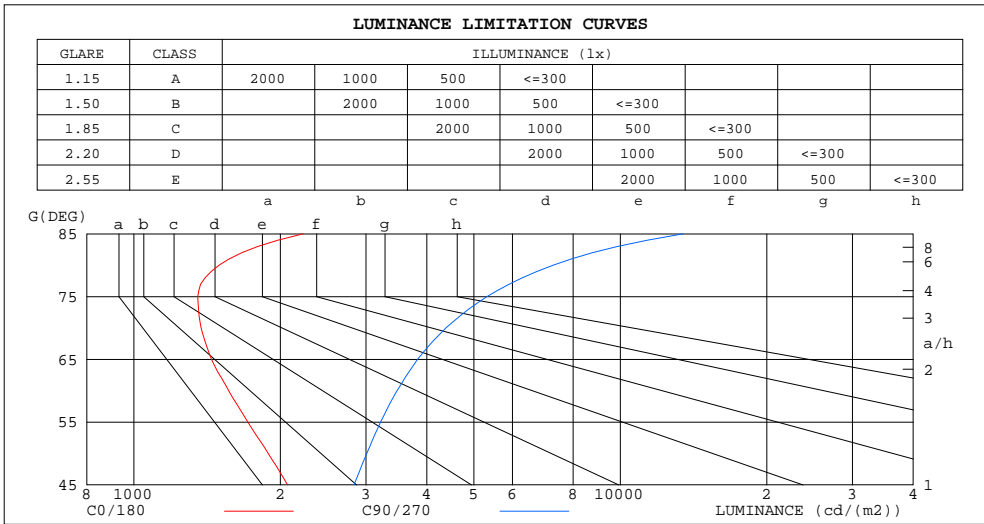
%lum = 55.9%  
%lamp = 55.9%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Evan  
Test Date:2022-11-29

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:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	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	2227	13462
80	1496	7274
75	1353	5321
70	1375	4379
65	1444	3829
60	1566	3476
55	1715	3214
50	1889	3012
45	2070	2835

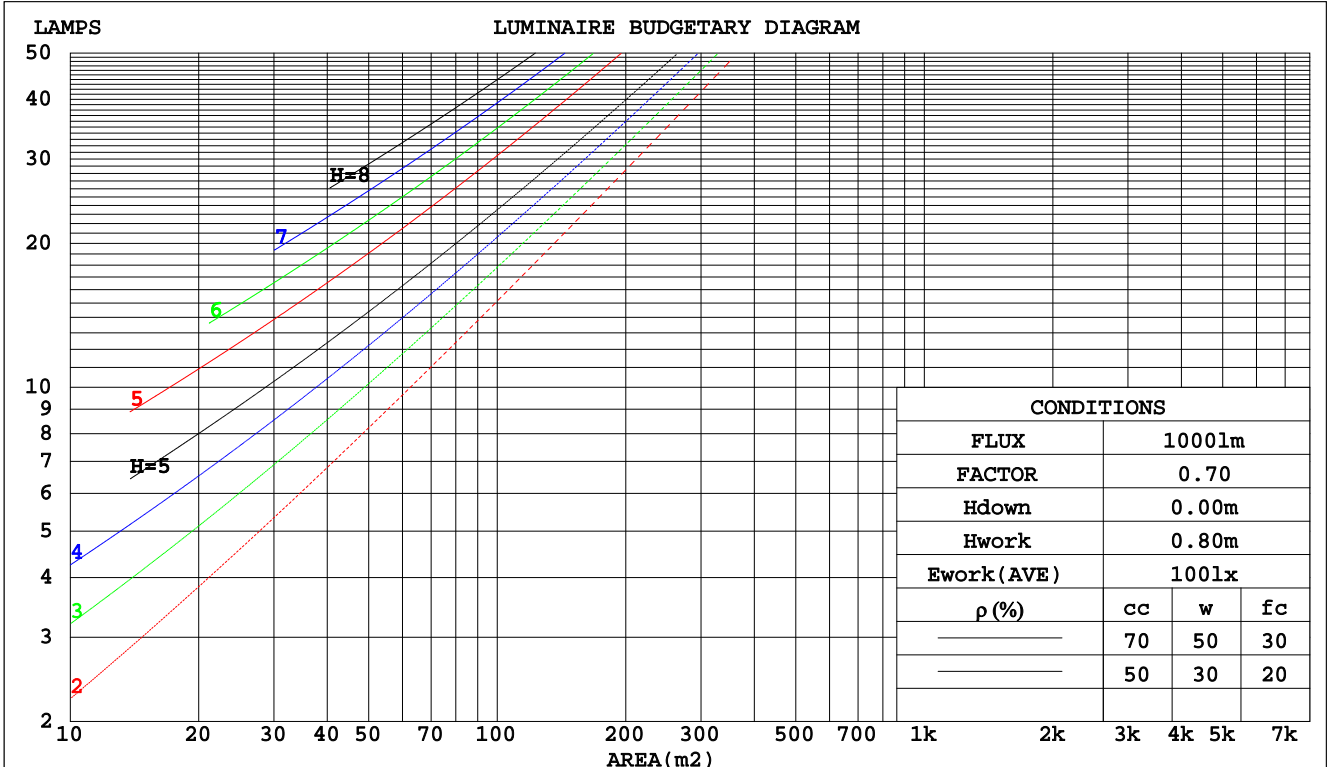
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	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	1.14	1.14	1.14	1.09	1.09	1.09	.00	.00	.00	.91	.91	.91	.84	.84	.84	.80
1.0	.96	.91	.87	.92	.88	.84	.84	.81	.77	.77	.74	.71	.70	.68	.66	.62
2.0	.83	.76	.70	.80	.73	.67	.73	.67	.63	.66	.62	.58	.61	.57	.54	.51
3.0	.73	.64	.57	.70	.62	.56	.64	.57	.52	.58	.53	.49	.53	.49	.45	.42
4.0	.64	.55	.49	.62	.53	.47	.57	.50	.44	.52	.46	.42	.48	.43	.39	.36
5.0	.57	.48	.42	.55	.47	.41	.51	.44	.38	.47	.41	.36	.43	.38	.34	.31
6.0	.52	.43	.36	.50	.41	.35	.46	.39	.33	.42	.36	.32	.39	.34	.30	.27
7.0	.47	.38	.32	.45	.37	.31	.42	.35	.30	.39	.33	.28	.36	.30	.26	.24
8.0	.43	.34	.28	.41	.33	.28	.38	.31	.26	.35	.29	.25	.33	.28	.24	.22
9.0	.39	.31	.26	.38	.30	.25	.35	.28	.24	.33	.27	.23	.30	.25	.22	.20
10.0	.36	.28	.23	.35	.28	.23	.33	.26	.22	.30	.25	.21	.28	.23	.20	.18



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	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	.360	.205	.065	.346	.198	.063	.322	.184	.059	.299	.172	.055	.278	.161	.052	
2.0	.314	.172	.053	.302	.166	.051	.279	.155	.048	.259	.145	.045	.239	.135	.043	
3.0	.280	.149	.045	.270	.144	.043	.249	.135	.041	.231	.126	.039	.213	.118	.037	
4.0	.254	.132	.039	.244	.128	.038	.226	.120	.036	.208	.112	.034	.193	.105	.032	
5.0	.232	.118	.034	.223	.114	.033	.206	.107	.032	.190	.100	.030	.176	.094	.028	
6.0	.213	.107	.031	.205	.104	.030	.190	.097	.028	.175	.091	.027	.162	.085	.025	
7.0	.197	.097	.028	.190	.095	.027	.176	.089	.026	.163	.083	.024	.150	.078	.023	
8.0	.183	.090	.025	.177	.087	.025	.164	.082	.023	.152	.077	.022	.140	.072	.021	
9.0	.171	.083	.023	.165	.080	.023	.153	.076	.021	.142	.071	.020	.131	.067	.019	
10.0	.161	.077	.021	.155	.075	.021	.144	.070	.020	.133	.066	.019	.124	.062	.018	

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	.344	.344	.344	.294	.294	.294	.200	.200	.200	.115	.115	.115	.037	.037	.037	
1.0	.338	.310	.285	.289	.266	.245	.198	.183	.170	.114	.106	.099	.036	.034	.032	
2.0	.331	.287	.251	.283	.247	.217	.194	.171	.151	.112	.100	.089	.036	.032	.029	
3.0	.323	.271	.229	.277	.233	.199	.190	.162	.139	.110	.095	.082	.035	.031	.027	
4.0	.315	.258	.215	.270	.223	.186	.186	.155	.131	.108	.091	.078	.035	.030	.026	
5.0	.307	.248	.205	.264	.215	.178	.182	.150	.126	.105	.088	.075	.034	.029	.025	
6.0	.300	.240	.197	.258	.208	.172	.178	.146	.122	.103	.086	.072	.033	.028	.024	
7.0	.293	.234	.192	.252	.202	.167	.174	.142	.118	.101	.084	.071	.033	.027	.023	
8.0	.287	.228	.188	.247	.198	.164	.171	.139	.116	.099	.082	.069	.032	.027	.023	
9.0	.281	.223	.185	.242	.194	.161	.167	.136	.114	.098	.080	.068	.032	.026	.023	
10.0	.275	.219	.182	.237	.190	.159	.164	.134	.113	.096	.079	.067	.031	.026	.022	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm										
NAME: LED luminaires					TYPE:N/A			WEIGHT:N/A		
SPEC.:ASD-LVF24M-3D15CC-BK 3000K					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	15.4	16.7	15.9	17.2	17.8	17.4	18.7	17.9	19.2	19.8
3H	17.0	18.2	17.6	18.8	19.4	20.0	21.2	20.5	21.7	22.4
4H	17.7	18.9	18.3	19.5	20.1	21.4	22.5	22.0	23.1	23.7
6H	18.4	19.4	19.0	20.0	20.7	22.9	24.0	23.5	24.6	25.3
8H	18.6	19.6	19.2	20.2	20.9	23.8	24.8	24.4	25.4	26.1
12H	18.9	19.9	19.5	20.5	21.2	24.8	25.8	25.4	26.4	27.1
4H 2H	16.9	18.0	17.5	18.6	19.2	18.2	19.3	18.8	19.9	20.5
3H	19.0	20.0	19.6	20.6	21.3	21.0	22.0	21.7	22.6	23.3
4H	20.1	21.0	20.7	21.6	22.4	22.6	23.5	23.3	24.2	24.9
6H	21.0	21.8	21.7	22.5	23.3	24.4	25.2	25.0	25.8	26.6
8H	21.4	22.2	22.1	22.9	23.7	25.3	26.1	26.0	26.8	27.5
12H	21.8	22.5	22.5	23.2	24.0	26.4	27.1	27.1	27.8	28.6
8H 4H	21.3	22.1	22.0	22.7	23.5	23.2	23.9	23.9	24.6	25.4
6H	22.8	23.4	23.5	24.2	25.0	25.3	25.9	26.0	26.6	27.4
8H	23.5	24.1	24.3	24.8	25.7	26.4	27.0	27.2	27.7	28.6
12H	24.2	24.7	25.0	25.5	26.4	27.8	28.3	28.5	29.0	29.9
12H 4H	21.6	22.3	22.3	23.0	23.8	23.3	24.0	24.0	24.7	25.5
6H	23.4	23.9	24.1	24.7	25.5	25.5	26.1	26.2	26.8	27.6
8H	24.3	24.8	25.1	25.6	26.4	26.8	27.3	27.5	28.0	28.9
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	+ 0.3 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 742.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.0)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

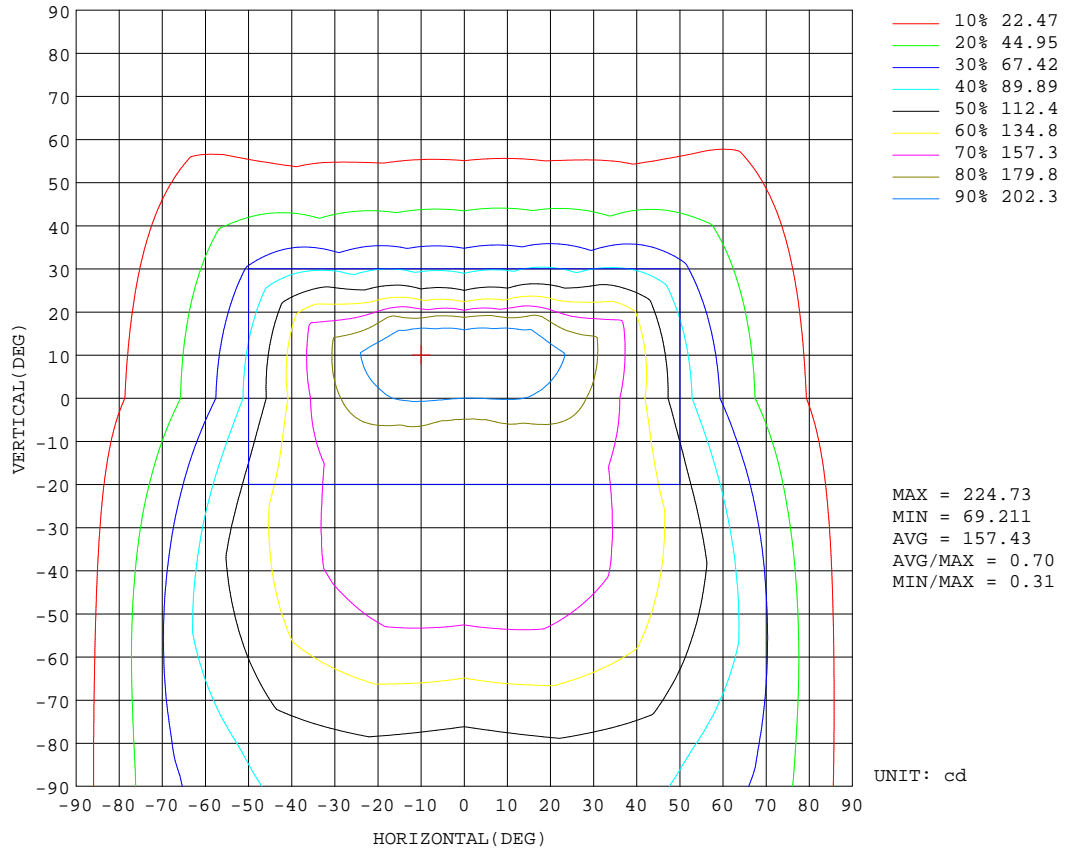
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	38	31	49	38	31	47	37	30	24
0.80	59	47	39	57	46	39	55	44	38	30
1.00	67	54	46	65	53	46	61	53	44	36
1.25	73	61	53	71	60	52	67	57	51	41
1.50	78	67	59	76	65	57	71	62	55	45
2.00	85	75	67	82	73	65	76	68	62	51
2.50	90	80	72	86	77	70	80	72	67	54
3.00	93	84	77	89	81	75	82	76	71	57
4.00	98	90	84	93	87	81	86	81	76	61
5.00	100	94	88	96	90	85	88	84	80	64
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:2022-11-29

$\gamma$  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:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



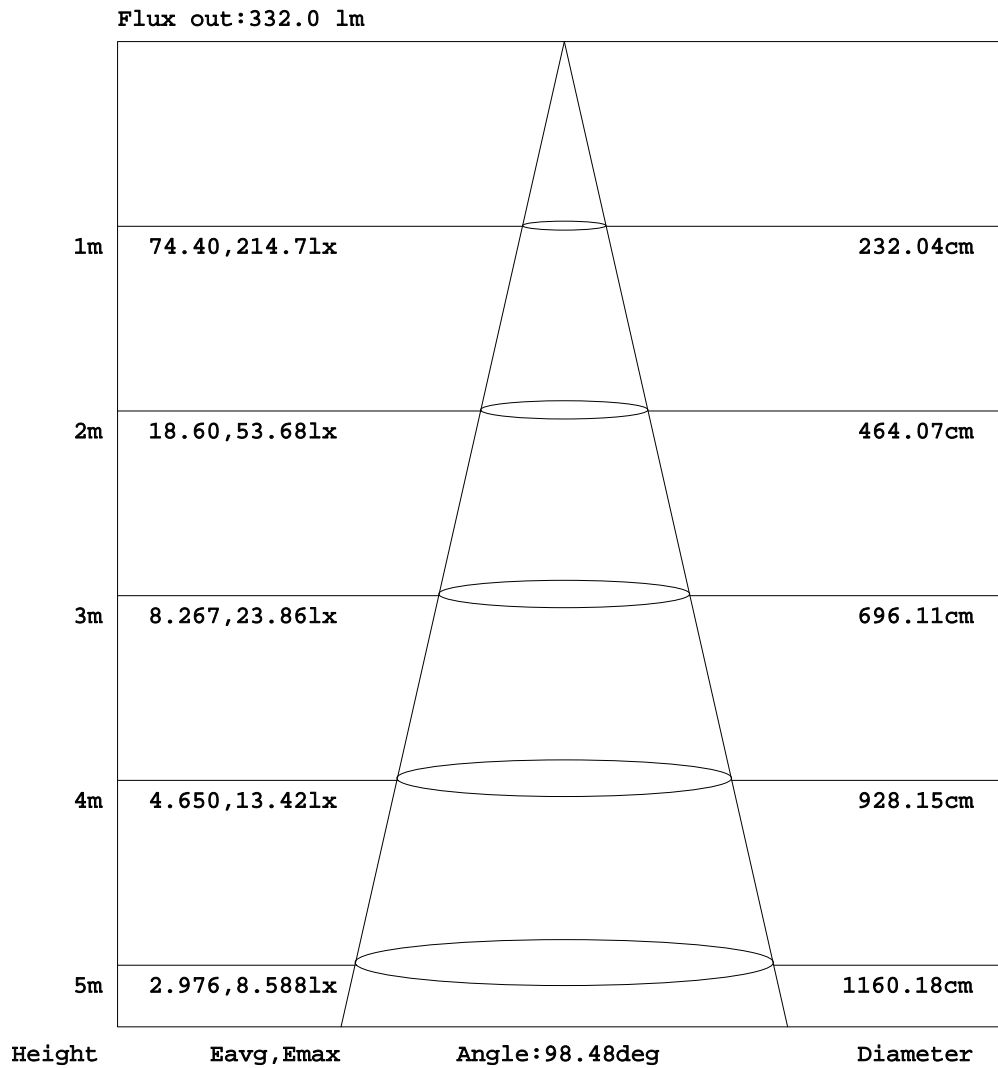
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



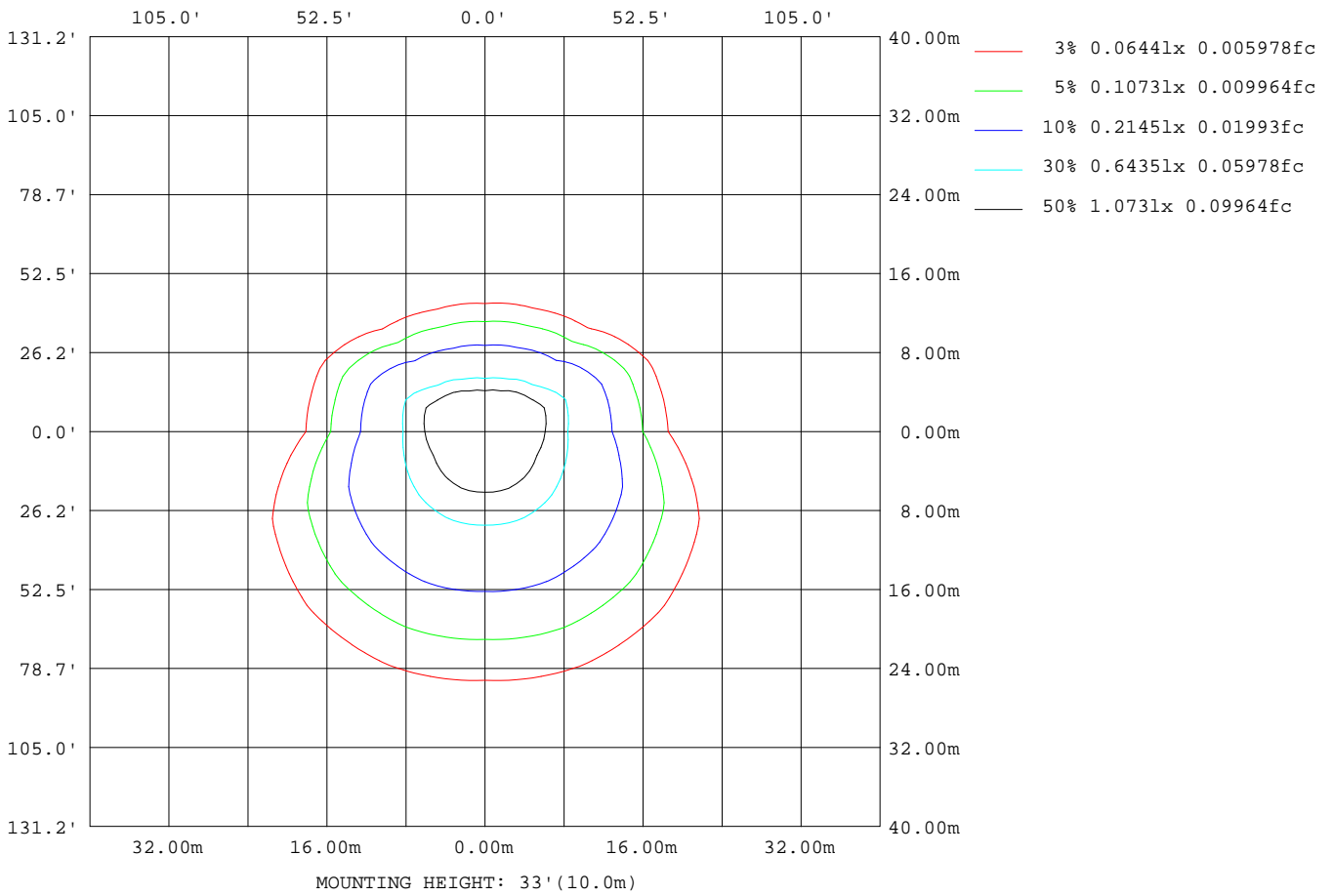
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	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:2022-11-29

$\gamma$  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:

**LED Avg.L Report**

Test:U:120.0V I:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

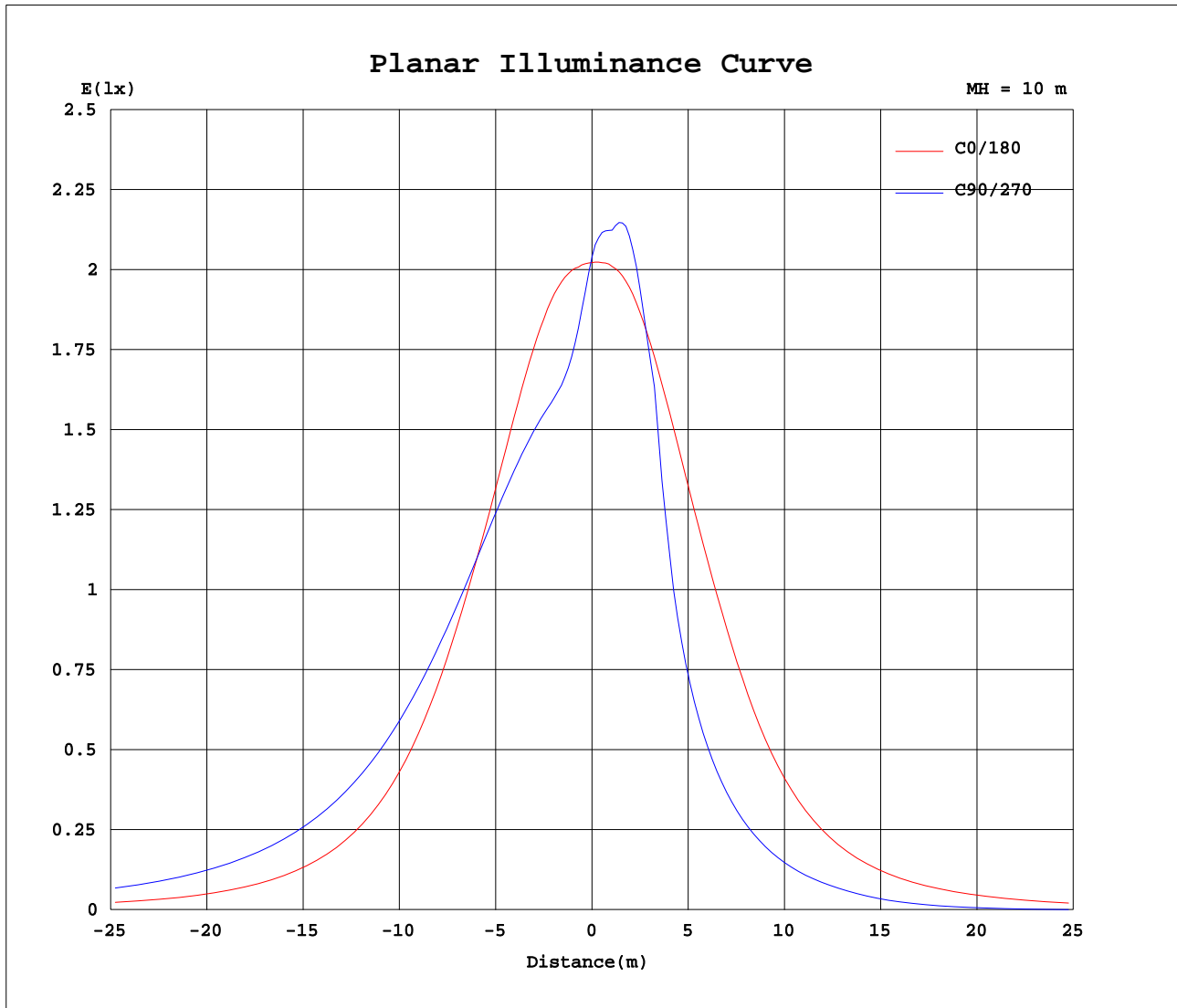
AvgL	cd/m2
L_0~180(65)av	1395
L_0~180(75)av	1312
L_0~180(85)av	2225
L_90~270(65)av	1973
L_90~270(75)av	2655
L_90~270(85)av	6721
L_45(65)av	2173
L_45(75)av	2763
L_45(85)av	6887

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Evan  
 Test Date:2022-11-29

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:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Evan  
 Test Date: 2022-11-29

$\gamma$  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:0.1314A P:15.48W PF:0.9815 Lamp Flux:742.497x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:ASD-LVF24M-3D15CC-BK 3000K	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	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203			
5	204	194	185	180	178	180	186	195	205	212	214	214	214	214	213	210			
10	205	186	175	170	169	170	175	187	207	216	221	224	223	222	218	214			
15	203	180	173	171	169	170	172	181	205	216	224	214	207	213	222	212			
20	197	175	173	173	171	172	172	175	199	214	210	185	161	185	210	210			
25	188	170	173	174	172	174	172	170	190	206	188	127	112	128	189	203			
30	177	166	172	175	173	175	171	164	177	192	138	95.3	84.8	96.5	141	191			
35	162	160	170	175	172	174	169	158	161	173	103	73.8	66.4	74.8	106	176			
40	143	153	168	173	170	172	166	151	140	155	79.5	58.0	52.6	59.0	81.8	159			
45	122	146	164	170	166	169	162	143	117	122	62.0	45.5	41.5	46.5	63.7	127			
50	102	138	159	165	161	164	157	135	95.5	96.0	48.5	35.3	32.3	36.3	49.8	100			
55	82.3	129	152	158	153	157	150	127	76.5	74.1	37.5	26.1	22.6	27.0	38.4	77.6			
60	65.5	121	145	150	144	149	143	118	60.4	57.6	27.9	15.2	12.6	16.2	28.8	60.1			
65	51.0	111	136	141	134	140	134	108	47.1	45.0	16.9	6.36	4.51	7.15	17.9	46.7			
70	39.3	101	128	131	124	130	126	98.9	35.7	34.5	7.35	0.11	0.10	0.35	8.00	35.8			
75	29.3	91.9	118	122	114	121	116	89.3	27.2	23.6	2.33	0.10	0.11	0.11	1.41	25.2			
80	21.7	82.2	108	112	105	111	107	79.8	21.1	15.1	1.94	0.12	0.13	0.13	1.10	15.3			
85	16.2	72.8	99.3	104	97.3	103	98.3	70.6	16.0	10.9	1.43	0.14	0.15	0.15	0.80	9.68			
90	12.0	65.7	92.9	97.8	91.8	97.4	92.1	64.9	13.2	6.75	1.13	0.16	0.17	0.17	0.69	6.46			
95	11.3	59.6	86.9	92.2	86.8	91.8	86.2	58.4	12.2	7.25	1.05	0.18	0.19	0.19	0.69	6.82			
100	10.7	54.0	81.0	86.9	82.1	86.5	80.3	53.0	11.1	6.87	0.94	0.18	0.18	0.19	0.65	6.46			
105	9.81	48.6	75.1	81.6	77.6	81.2	74.5	47.7	10.04	6.81	0.79	0.16	0.16	0.17	0.57	6.47			
110	9.14	43.1	69.2	76.3	73.1	76.0	68.7	42.4	9.14	7.57	0.61	0.14	0.15	0.15	0.48	7.11			
115	8.26	38.0	62.9	70.9	68.3	70.5	62.6	37.4	8.25	7.38	0.50	0.13	0.13	0.13	0.36	6.99			
120	7.79	33.0	57.0	65.2	63.3	64.9	56.7	32.8	7.87	6.63	0.36	0.12	0.12	0.12	0.24	6.28			
125	7.82	28.4	51.0	58.9	57.8	58.6	50.6	28.3	8.23	6.27	0.17	0.12	0.12	0.12	0.15	5.87			
130	8.17	23.8	44.7	52.6	52.1	52.2	44.4	23.8	8.47	6.12	0.11	0.12	0.12	0.12	0.12	5.77			
135	8.36	19.2	38.3	45.9	45.9	45.6	38.1	19.3	8.56	5.99	0.12	0.12	0.12	0.12	0.12	5.67			
140	8.43	14.9	31.8	38.9	39.3	38.6	31.6	14.9	8.52	5.87	0.25	0.12	0.12	0.12	0.17	5.34			
145	8.35	11.1	25.3	31.7	32.4	31.4	25.1	11.3	8.35	5.97	0.52	0.12	0.12	0.13	0.28	4.67			
150	8.18	8.26	18.8	24.4	25.2	24.1	18.6	8.37	8.09	6.34	0.89	0.19	0.14	0.15	0.53	3.57			
155	7.78	6.50	12.4	17.1	18.1	16.9	12.3	6.36	7.40	6.61	1.39	0.38	0.16	0.18	0.42	2.21			
160	6.06	4.85	6.63	10.0	11.0	9.94	6.57	4.04	5.50	5.56	2.41	0.72	0.20	0.19	0.54	1.38			
165	4.12	3.39	2.44	3.67	4.40	3.64	2.22	3.22	3.17	3.46	2.60	0.93	0.27	0.22	0.53	0.94			
170	1.35	1.96	1.30	0.72	0.45	0.65	1.18	1.82	0.93	0.95	0.73	0.35	0.23	0.24	0.27	0.49			
175	0.47	0.45	0.63	0.48	0.38	0.43	0.41	0.42	0.31	0.31	0.28	0.26	0.27	0.27	0.28	0.29			
180	0.29	0.30	0.31	0.32	0.32	0.33	0.33	0.33	0.30	0.30	0.30	0.30	0.31	0.31	0.32	0.32			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
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