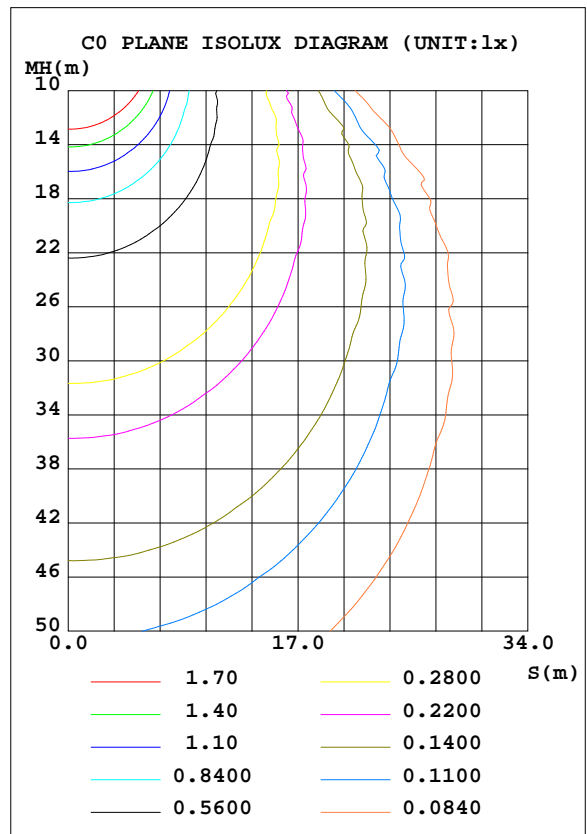
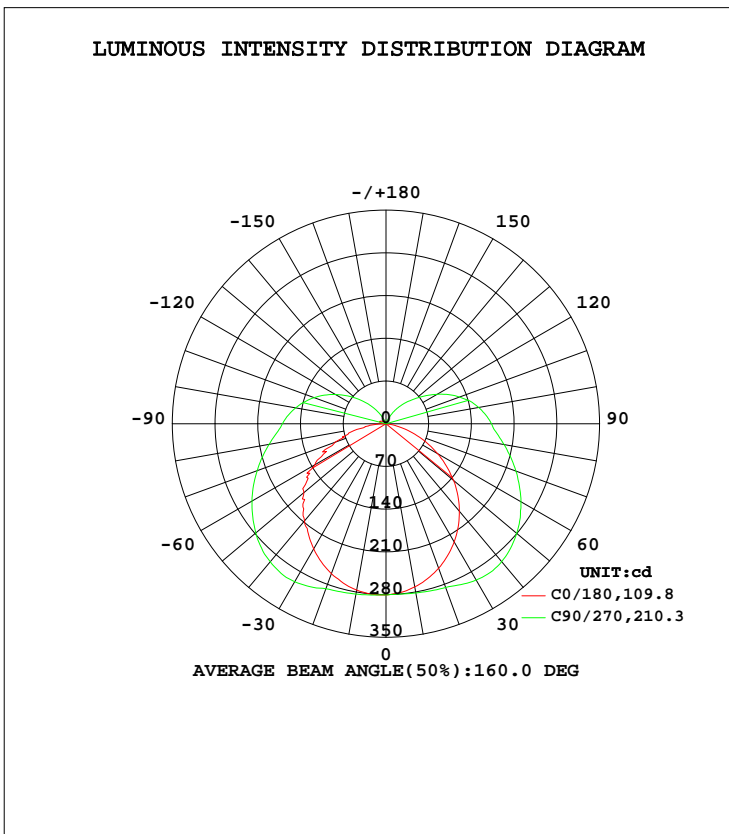


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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: 83.76 lm/W			
MODEL ASD-OLWS-22-MV-18N20CC-BZ 4000K		300.3	S/MH(C0/180)	1.19	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.61
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1516.0	η UP, DN(C0-180)	10.0,40.4
NOMINAL FLUX(lm)	1515.98	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	10.1,39.6
LAMPS INSIDE	1	η up(%)	20.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	80.0	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 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	276.8	281.3	283.4	277.9	271.5	275.8	281.6	279.1	0- 10	26.68	26.68	1.76,1.76
20	261.5	276.3	287.7	270.3	252.1	267.7	285.7	274.0	10- 20	77.99	104.7	6.9,6.9
30	236.9	270.0	299.0	261.4	223.4	257.6	295.7	265.1	20- 30	124.0	228.6	15.1,15.1
40	207.8	261.8	295.1	250.5	187.2	247.6	295.0	257.4	30- 40	161.6	390.2	25.7,25.7
50	175.6	242.6	278.4	227.4	144.4	227.3	279.6	239.9	40- 50	184.7	574.9	37.9,37.9
60	134.7	211.6	253.6	195.0	97.41	196.1	255.3	211.6	50- 60	190.0	764.9	50.5,50.5
70	88.79	177.5	224.5	159.9	50.48	161.4	226.4	176.3	60- 70	176.3	941.2	62.1,62.1
80	37.78	142.0	194.6	126.3	11.97	127.7	196.3	141.3	70- 80	150.1	1091	72,72
90	2.488	115.5	169.8	102.5	0.1112	105.2	172.9	115.6	80- 90	120.9	1212	80,80
100	7.514	97.83	150.6	85.10	0.1694	88.61	154.3	98.39	90-100	101.2	1313	86.6,86.6
110	11.08	74.86	125.5	65.29	0.2160	67.60	128.2	75.31	100-110	80.85	1394	92,92
120	8.835	52.31	96.05	45.24	0.3229	45.98	96.82	51.50	110-120	57.68	1452	95.8,95.8
130	6.416	32.24	65.78	27.60	0.3157	29.86	65.36	33.54	120-130	35.77	1488	98.1,98.1
140	4.480	14.65	38.22	12.00	0.3909	14.82	40.49	18.41	130-140	18.87	1507	99.4,99.4
150	3.109	2.179	14.41	1.310	0.4791	1.303	17.96	6.762	140-150	7.468	1514	99.9,99.9
160	1.958	1.579	1.491	1.075	0.5096	0.6346	0.9859	1.112	150-160	1.486	1516	100,100
170	1.237	1.362	1.217	0.8395	0.6048	0.6479	0.8126	1.134	160-170	0.2987	1516	100,100
180	1.121	1.140	0.8074	1.279	1.142	1.142	1.001	0.9702	170-180	0.0919	1516	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 480.74 lm

%lum = 31.7%

%lamp = 31.7%

Conical surface Flux(120deg): 764.9 lm

%lum = 50.5%

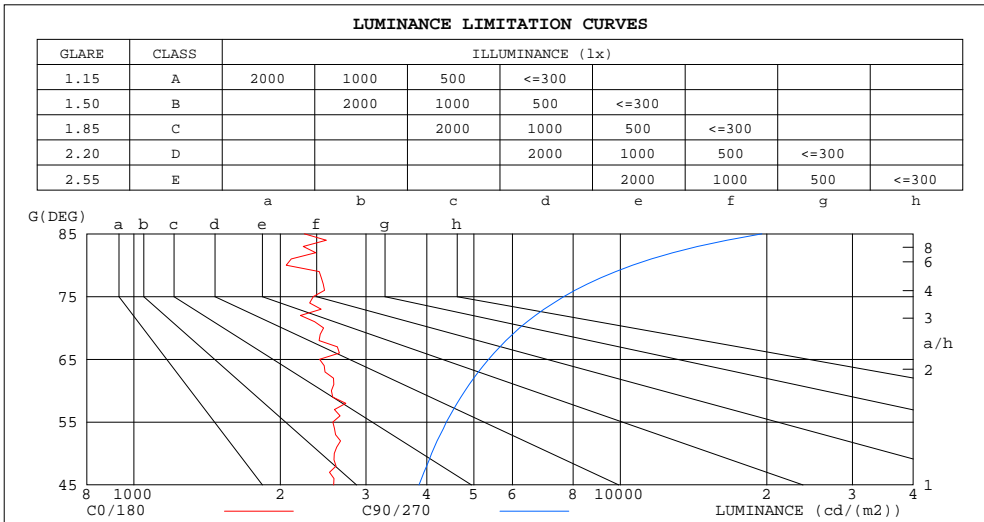
%lamp = 50.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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	2241	19538
80	2057	10590
75	2339	7651
70	2454	6203
65	2409	5362
60	2546	4794
55	2565	4389
50	2583	4094
45	2573	3854

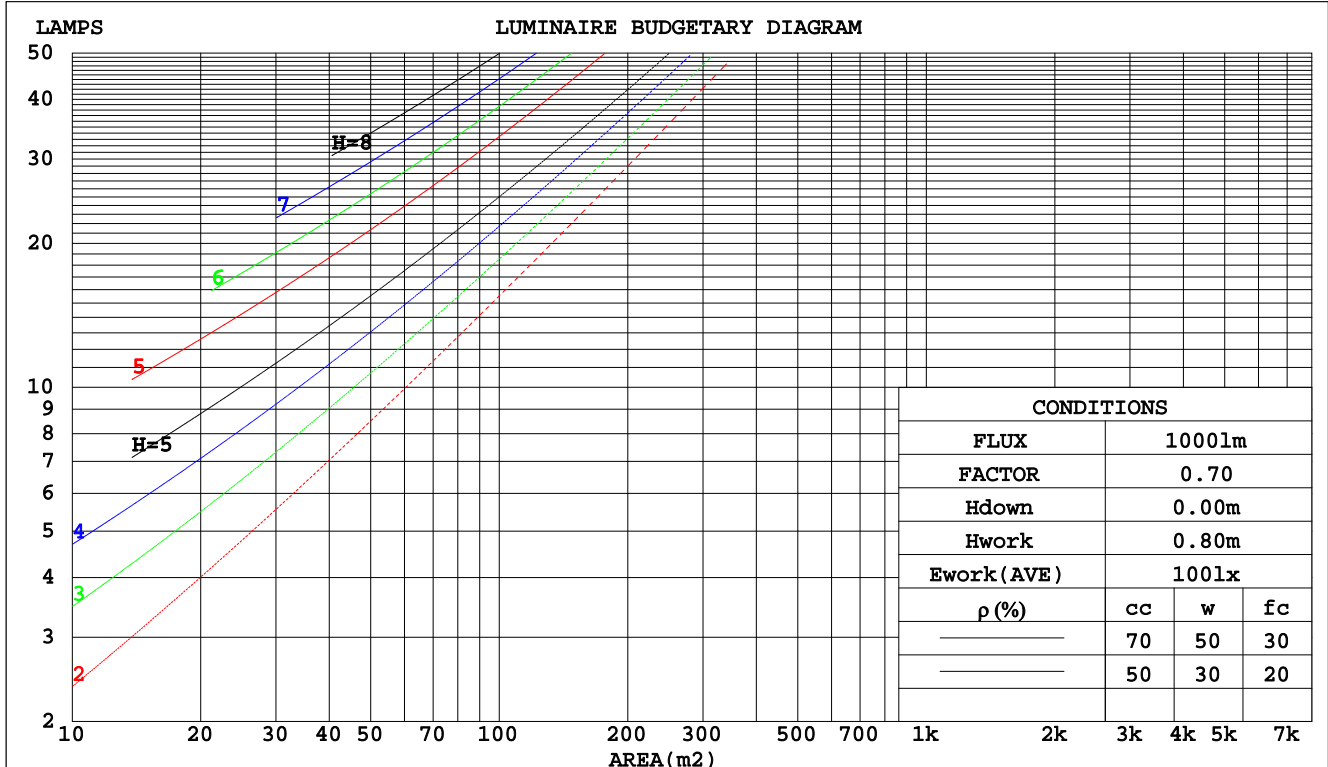
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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	1.14	1.14	1.14	1.09	1.09	1.09	.00	.00	.00	.91	.91	.91	.84	.84	.84	.80
1.0	.95	.89	.84	.90	.85	.81	.82	.78	.75	.75	.72	.69	.68	.66	.63	.60
2.0	.81	.73	.66	.77	.70	.63	.70	.64	.59	.64	.59	.55	.58	.54	.50	.47
3.0	.70	.60	.53	.66	.58	.51	.61	.54	.48	.55	.49	.45	.50	.45	.41	.38
4.0	.61	.51	.44	.58	.49	.43	.53	.46	.40	.48	.42	.37	.44	.39	.35	.32
5.0	.54	.44	.37	.52	.43	.36	.47	.40	.34	.43	.37	.32	.39	.34	.29	.27
6.0	.48	.39	.32	.46	.37	.31	.42	.35	.29	.39	.32	.27	.35	.30	.25	.23
7.0	.43	.34	.28	.42	.33	.27	.38	.31	.25	.35	.29	.24	.32	.27	.22	.20
8.0	.39	.30	.24	.38	.29	.24	.35	.28	.22	.32	.26	.21	.29	.24	.20	.18
9.0	.36	.27	.22	.34	.27	.21	.32	.25	.20	.29	.23	.19	.27	.22	.18	.16
10.0	.33	.25	.19	.32	.24	.19	.29	.23	.18	.27	.21	.17	.25	.20	.16	.14



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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	.395	.225	.071	.382	.218	.069	.357	.205	.065	.334	.192	.062	.313	.181	.058	
2.0	.340	.186	.057	.328	.181	.056	.305	.170	.053	.285	.160	.050	.265	.150	.047	
3.0	.301	.160	.048	.290	.155	.047	.270	.146	.044	.251	.137	.042	.233	.129	.040	
4.0	.271	.141	.041	.261	.136	.040	.242	.128	.038	.225	.121	.036	.209	.113	.035	
5.0	.245	.125	.036	.236	.121	.035	.220	.114	.034	.204	.107	.032	.189	.101	.030	
6.0	.225	.113	.032	.216	.109	.031	.201	.103	.030	.186	.097	.028	.173	.091	.027	
7.0	.207	.102	.029	.199	.099	.028	.185	.094	.027	.172	.088	.026	.159	.083	.024	
8.0	.192	.094	.026	.185	.091	.026	.172	.086	.025	.160	.081	.023	.148	.076	.022	
9.0	.178	.086	.024	.172	.084	.024	.160	.079	.022	.149	.075	.021	.138	.070	.020	
10.0	.167	.080	.022	.161	.078	.022	.150	.073	.021	.139	.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	.343	.343	.343	.293	.293	.293	.200	.200	.200	.115	.115	.115	.037	.037	.037	
1.0	.340	.309	.282	.291	.265	.242	.199	.183	.168	.115	.106	.097	.037	.034	.032	
2.0	.334	.287	.247	.286	.247	.214	.196	.171	.149	.113	.099	.087	.036	.032	.028	
3.0	.326	.270	.226	.280	.233	.196	.192	.162	.137	.111	.095	.081	.036	.031	.026	
4.0	.319	.258	.212	.273	.223	.184	.188	.155	.129	.109	.091	.077	.035	.030	.025	
5.0	.311	.248	.202	.267	.215	.176	.184	.150	.124	.107	.088	.074	.034	.029	.024	
6.0	.303	.240	.195	.261	.208	.170	.180	.146	.120	.104	.086	.071	.034	.028	.024	
7.0	.296	.234	.190	.255	.203	.166	.176	.142	.117	.102	.084	.070	.033	.027	.023	
8.0	.290	.228	.186	.249	.198	.162	.172	.139	.115	.100	.082	.069	.032	.027	.023	
9.0	.283	.224	.183	.244	.194	.160	.169	.136	.113	.098	.081	.068	.032	.026	.022	
10.0	.277	.219	.181	.239	.190	.158	.166	.134	.112	.097	.079	.067	.031	.026	.022	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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	14.9	16.3	15.4	16.8	17.4	17.5	18.9	18.0	19.4	20.0
3H	16.6	17.9	17.2	18.5	19.1	20.2	21.5	20.8	22.1	22.7
4H	17.4	18.6	18.0	19.2	19.8	21.7	22.9	22.3	23.5	24.2
6H	17.9	19.1	18.6	19.7	20.4	23.4	24.5	24.0	25.1	25.8
8H	18.2	19.3	18.8	19.9	20.6	24.3	25.4	24.9	26.0	26.7
12H	18.4	19.4	19.0	20.0	20.8	25.4	26.4	26.0	27.1	27.8
4H 2H	16.3	17.5	16.9	18.1	18.7	18.1	19.3	18.7	19.9	20.5
3H	18.3	19.3	18.9	19.9	20.7	21.0	22.1	21.7	22.7	23.5
4H	19.2	20.2	19.8	20.8	21.6	22.7	23.7	23.4	24.4	25.1
6H	20.0	20.8	20.6	21.5	22.3	24.6	25.5	25.3	26.2	27.0
8H	20.3	21.1	21.0	21.8	22.6	25.7	26.5	26.4	27.2	28.0
12H	20.6	21.3	21.3	22.0	22.8	26.9	27.6	27.6	28.3	29.2
8H 4H	20.3	21.1	21.0	21.8	22.6	23.1	23.9	23.8	24.6	25.4
6H	21.5	22.2	22.2	22.9	23.7	25.3	26.0	26.0	26.7	27.5
8H	22.1	22.7	22.8	23.4	24.3	26.6	27.2	27.3	27.9	28.8
12H	22.6	23.1	23.3	23.9	24.8	28.0	28.6	28.8	29.3	30.2
12H 4H	20.7	21.4	21.4	22.1	23.0	23.1	23.9	23.8	24.6	25.4
6H	22.1	22.7	22.8	23.4	24.3	25.4	26.0	26.1	26.8	27.6
8H	22.9	23.4	23.6	24.2	25.0	26.8	27.3	27.5	28.1	29.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1516 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.4)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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

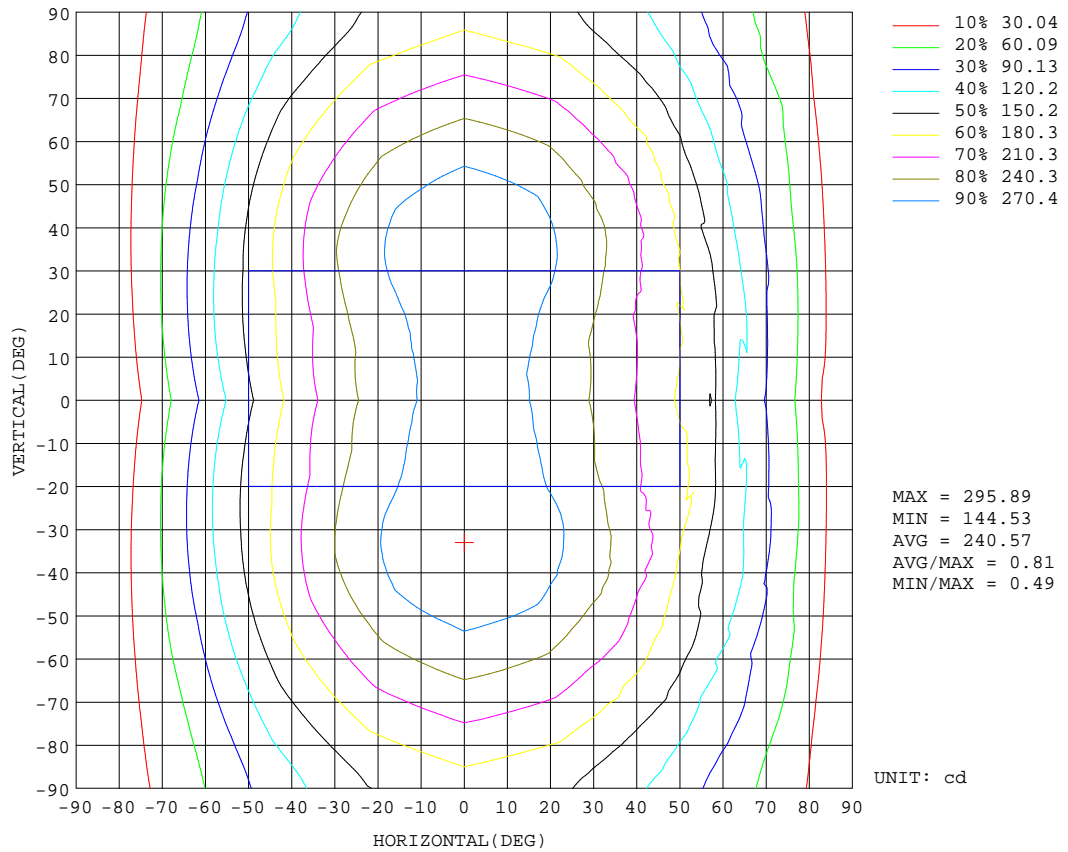
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	26	45	33	26	43	32	25	18
0.80	55	42	33	53	41	33	51	39	32	24
1.00	63	49	41	61	48	40	57	49	39	30
1.25	70	57	48	67	55	47	63	53	45	35
1.50	75	62	53	72	61	52	67	57	50	39
2.00	82	71	62	79	69	61	73	65	58	46
2.50	87	76	68	83	74	66	77	69	63	50
3.00	91	81	73	87	78	71	80	73	67	53
4.00	96	87	80	92	84	78	84	78	73	58
5.00	99	92	85	95	88	82	87	82	77	61
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:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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

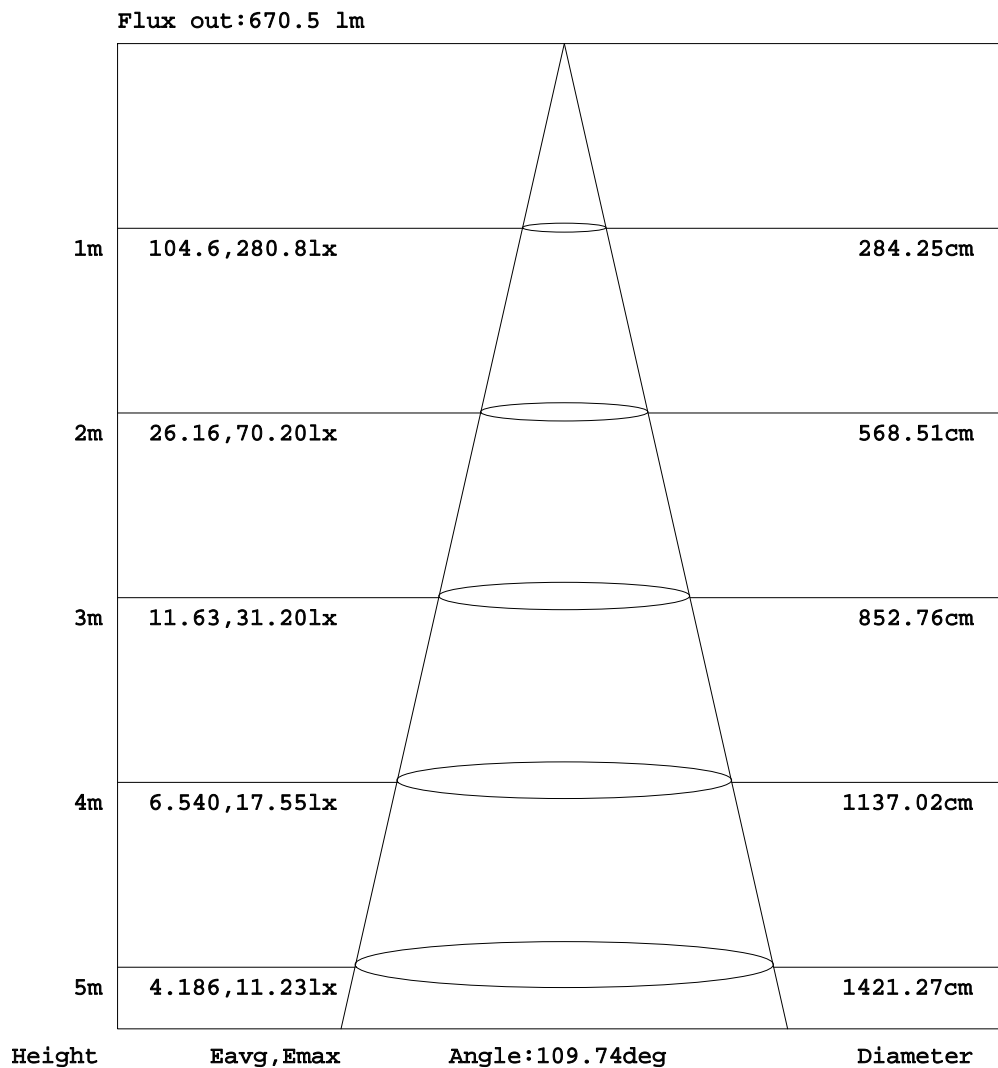


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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



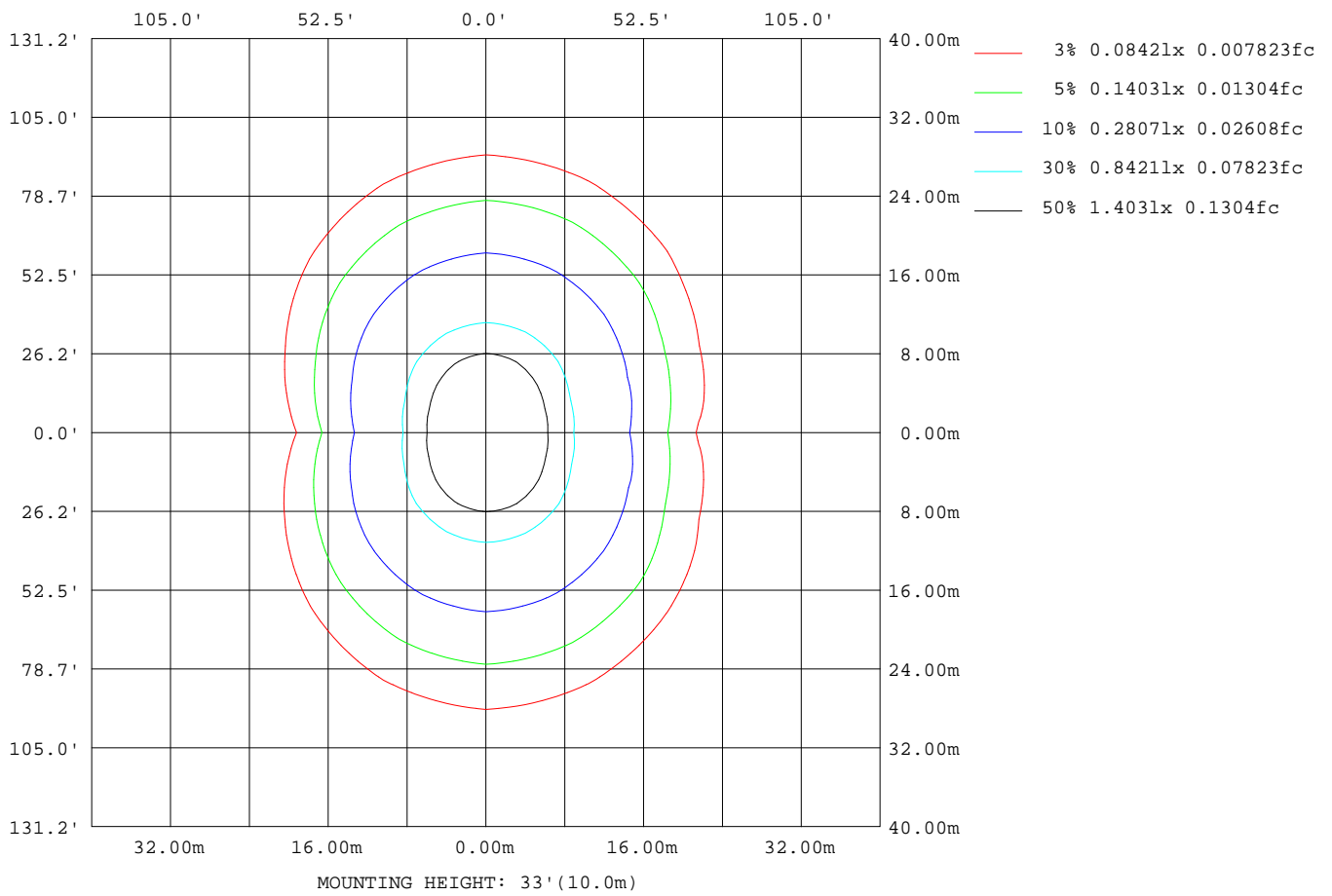
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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:25.4DEG
 Operators:Carl
 Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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

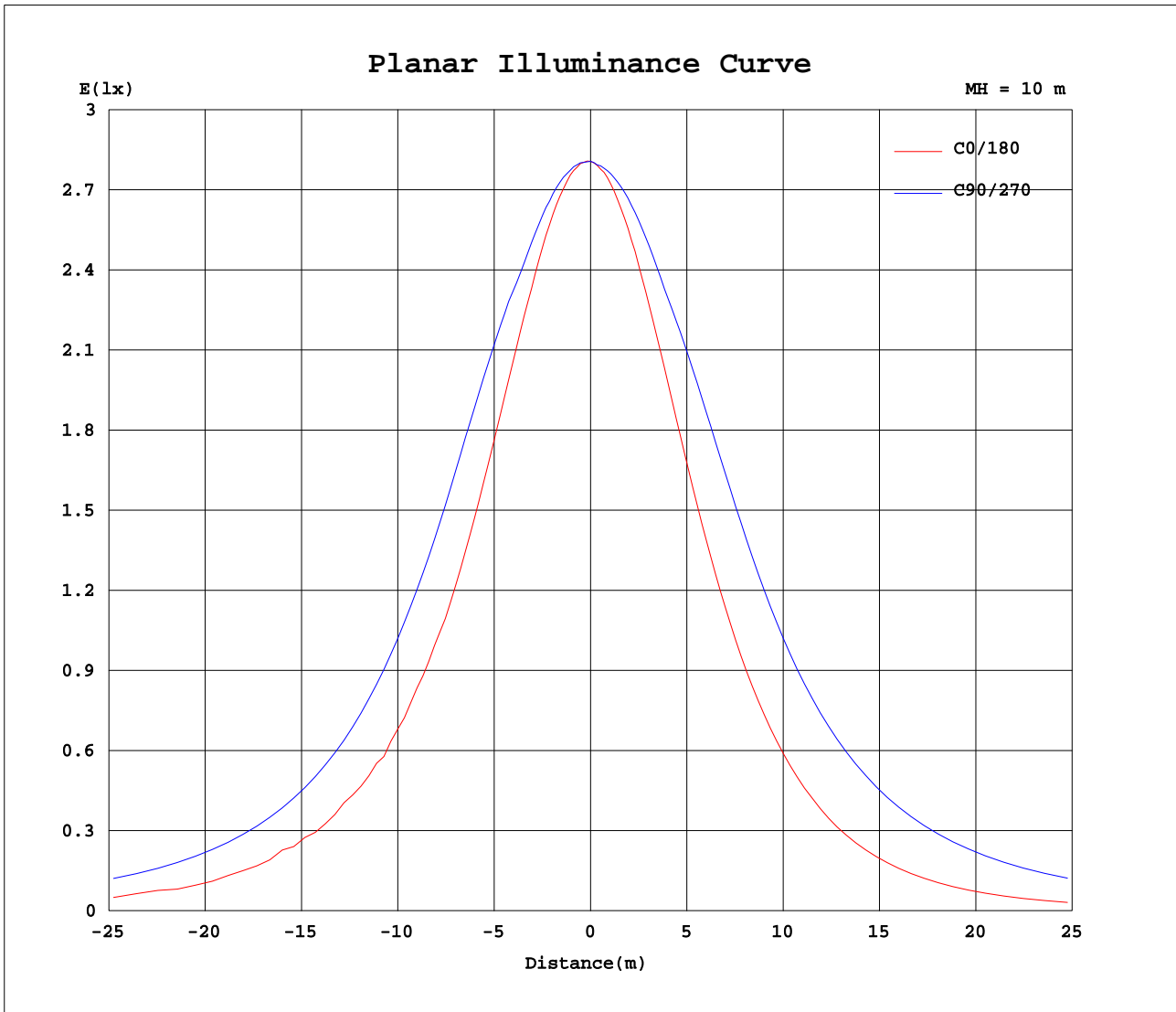
AvgL	cd/m2
L_0~180(65)av	2027
L_0~180(75)av	1699
L_0~180(85)av	1193
L_90~270(65)av	5375
L_90~270(75)av	7683
L_90~270(85)av	19649
L_45(65)av	4189
L_45(75)av	5559
L_45(85)av	12995

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: Carl
 Test Date: 2022-05-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 39%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1530A P:18.10W PF:0.9848 Lamp Flux:1515.98x1 lm		
NAME: ASD-OLWS-22-MV-18N20CC-BZ 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	281	281	281	281	281	281	281	281	281	281	281	281	281	281	281	281			
5	280	281	282	282	282	281	280	279	278	278	279	280	280	280	281	279			
10	277	278	281	284	283	281	278	274	271	273	276	280	282	281	279	276			
15	270	274	280	284	285	282	275	268	263	265	273	280	283	282	277	271			
20	261	267	276	285	288	282	270	259	252	256	268	279	286	283	274	264			
25	250	258	273	289	294	284	265	248	239	246	263	281	291	285	270	255			
30	237	247	270	292	299	287	261	236	223	234	258	284	296	288	265	244			
35	221	235	267	292	299	286	257	223	206	220	254	284	298	289	262	231			
40	208	222	262	288	295	281	251	208	187	205	248	281	295	286	257	219			
45	193	210	255	280	288	273	241	193	167	190	239	273	289	279	251	204			
50	176	201	243	270	278	262	227	178	144	175	227	263	280	269	240	194			
55	156	187	227	256	266	248	212	162	121	159	213	251	269	257	226	183			
60	135	167	212	242	254	235	195	143	97.4	141	196	236	255	243	212	164			
65	108	144	198	227	240	220	177	123	73.6	121	179	222	241	228	195	147			
70	88.8	134	177	212	224	204	160	102	50.5	101	161	206	226	213	176	124			
75	64.0	105	162	196	210	188	142	81.1	29.0	81.1	145	191	211	197	160	103			
80	37.8	91.7	142	181	195	173	126	63.0	12.0	63.4	128	176	196	181	141	87.4			
85	20.7	76.5	127	166	180	159	112	48.4	1.35	49.7	114	162	182	167	126	70.0			
90	2.49	60.4	115	155	170	149	102	39.3	0.11	41.4	105	153	173	157	116	58.6			
95	5.40	52.1	107	146	161	141	94.1	32.5	0.14	34.9	97.3	145	164	149	108	50.9			
100	7.51	42.5	97.8	136	151	131	85.1	26.1	0.17	28.2	88.6	134	154	138	98.4	42.6			
105	10.2	35.0	86.4	124	139	120	75.4	20.3	0.18	21.9	78.5	123	143	127	87.4	33.4			
110	11.1	28.7	74.9	112	125	107	65.3	15.5	0.22	17.0	67.6	111	128	113	75.3	26.8			
115	10.0	21.6	63.3	97.9	111	94.2	54.8	11.4	0.29	13.2	56.2	96.3	114	99.2	62.9	22.0			
120	8.83	16.2	52.3	83.6	96.0	80.3	45.2	7.58	0.32	9.77	46.0	81.5	96.8	83.5	51.5	17.5			
125	7.65	11.4	42.0	69.5	80.8	66.8	36.1	4.12	0.34	6.65	37.6	67.2	80.5	69.0	41.9	12.5			
130	6.42	6.91	32.2	56.0	65.8	53.5	27.6	1.38	0.32	3.66	29.9	54.3	65.4	55.6	33.5	8.69			
135	5.39	4.65	23.2	43.4	51.5	41.4	19.5	0.96	0.35	1.16	22.2	43.5	52.5	44.7	25.5	5.28			
140	4.48	3.89	14.7	31.4	38.2	30.0	12.0	0.90	0.39	0.52	14.8	32.6	40.5	34.3	18.4	3.54			
145	3.81	3.31	7.11	20.3	25.8	19.3	5.36	0.87	0.37	0.50	7.48	21.7	28.9	24.7	12.2	2.85			
150	3.11	2.83	2.18	10.2	14.4	9.57	1.31	0.85	0.48	0.51	1.30	11.6	18.0	15.8	6.76	2.13			
155	2.49	2.20	1.77	2.32	4.80	2.01	1.16	0.88	0.52	0.54	0.61	3.04	8.17	7.80	2.30	1.59			
160	1.96	1.79	1.58	1.54	1.49	1.35	1.08	0.88	0.51	0.54	0.63	0.73	0.99	1.30	1.11	1.22			
165	1.44	1.46	1.46	1.44	1.37	1.15	1.03	0.77	0.48	0.49	0.52	0.76	0.85	0.95	1.09	1.13			
170	1.24	1.26	1.36	1.30	1.22	1.07	0.84	0.82	0.60	0.61	0.65	0.57	0.81	0.99	1.13	1.15			
175	1.13	1.11	1.18	1.15	1.09	0.88	0.81	0.75	0.65	0.66	0.71	0.78	0.80	0.99	1.09	1.07			
180	1.12	1.13	1.14	1.09	0.81	0.84	1.28	1.34	1.14	1.14	1.14	1.13	1.00	0.85	0.97	1.15			

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