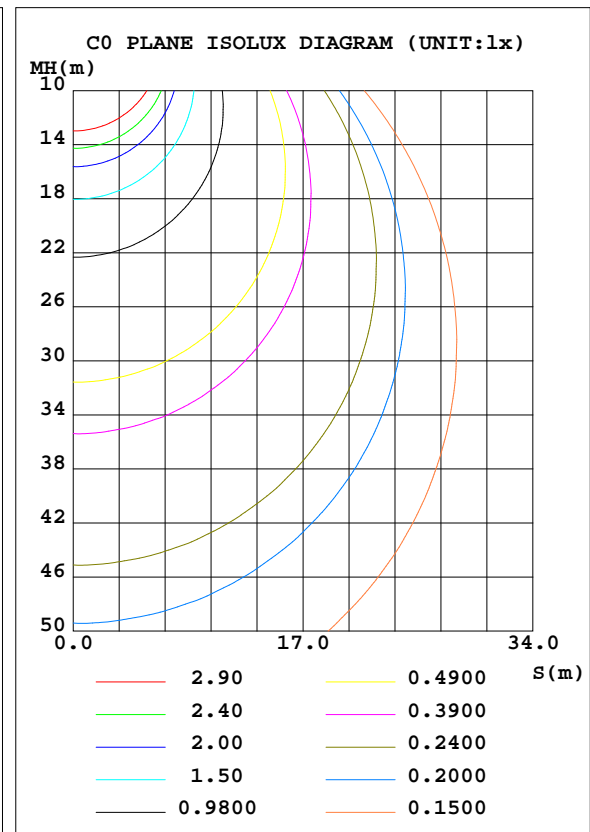
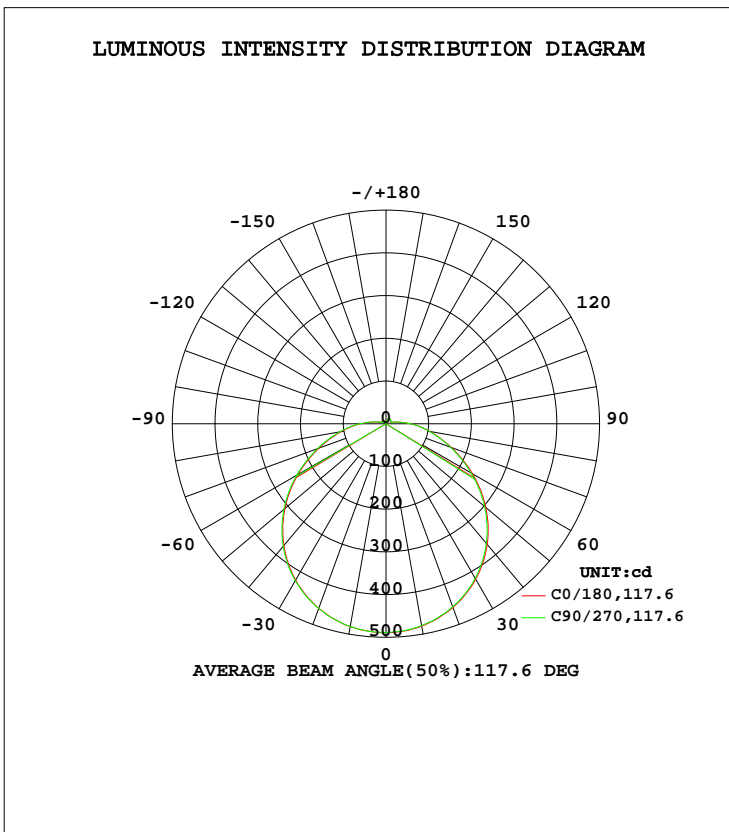


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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: 80.56 lm/W			
MODEL	PSZ2S220516007-10	I _{max} (cd)	489.3	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1671.7	η UP, DN(C0-180)	3.0,47.4
NOMINAL FLUX(lm)	1671.7	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.3,46.2
LAMPS INSIDE	1	η up(%)	6.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	93.7	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 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	481.9	482.0	481.8	481.5	481.1	480.2	479.8	480.4	0- 10	46.28	46.28	2.77,2.77
20	460.0	460.5	460.3	459.4	457.8	456.3	455.9	456.6	10- 20	133.1	179.4	10.7,10.7
30	422.8	424.0	424.8	422.9	419.9	417.6	417.5	419.1	20- 30	203.6	383.0	22.9,22.9
40	371.8	373.7	374.2	372.1	368.6	365.9	365.3	366.9	30- 40	248.5	631.4	37.8,37.8
50	308.9	311.4	312.2	309.9	304.9	301.7	301.1	302.9	40- 50	261.9	893.4	53.4,53.4
60	237.9	240.8	241.7	239.4	233.5	230.2	229.6	231.5	50- 60	243.0	1136	68,68
70	167.0	169.7	170.8	168.5	163.3	161.1	160.7	161.8	60- 70	197.8	1334	79.8,79.8
80	106.9	109.1	110.0	108.2	104.2	103.5	103.1	103.0	70- 80	142.0	1476	88.3,88.3
90	59.70	61.67	61.85	61.00	58.30	57.94	57.60	57.47	80- 90	89.33	1566	93.7,93.7
100	24.54	25.65	26.22	25.52	24.34	24.37	24.01	23.50	90-100	44.31	1610	96.3,96.3
110	9.023	9.181	9.261	9.328	10.62	12.10	11.82	9.990	100-110	16.47	1626	97.3,97.3
120	10.86	10.49	10.41	10.99	12.60	13.95	13.65	11.83	110-120	10.87	1637	97.9,97.9
130	11.74	10.07	10.22	12.13	13.82	15.31	14.73	12.73	120-130	11.09	1648	98.6,98.6
140	10.38	8.339	8.458	11.64	13.93	15.87	14.83	12.83	130-140	9.652	1658	99.2,99.2
150	8.133	6.328	6.782	9.768	12.43	14.99	14.39	12.04	140-150	7.215	1665	99.6,99.6
160	5.871	3.826	4.309	7.764	9.419	11.53	11.79	9.021	150-160	4.407	1670	99.9,99.9
170	3.024	1.752	1.858	4.120	5.549	7.084	7.005	5.460	160-170	1.811	1671	100,100
180	0.9369	1.649	1.254	0.6493	1.336	1.762	2.019	1.328	170-180	0.3127	1672	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 762.81 lm

%lum = 45.6%

%lamp = 45.6%

Conical surface Flux(120deg): 1136.4 lm

%lum = 68.0%

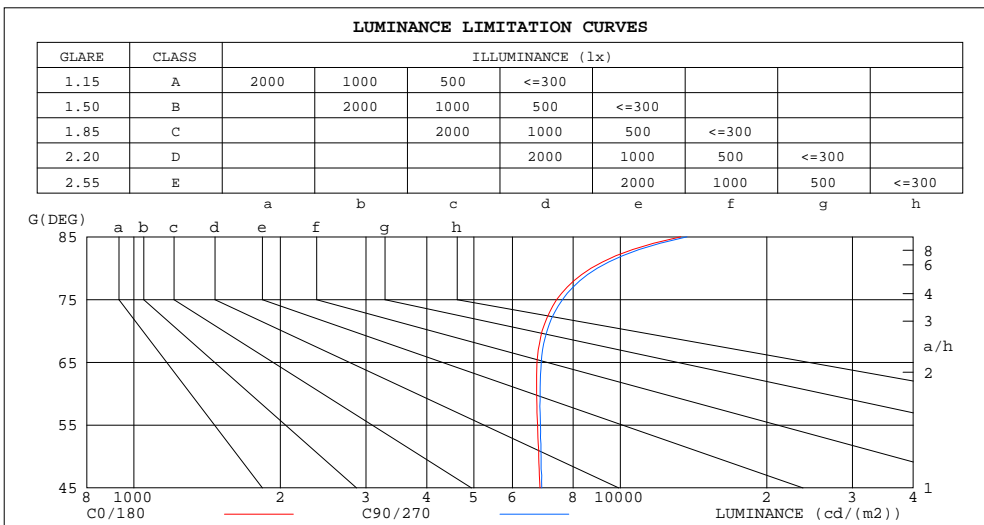
%lamp = 68.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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	13307	13709
80	8707	8965
75	7396	7607
70	6903	7067
65	6737	6878
60	6728	6842
55	6760	6855
50	6795	6874
45	6835	6892

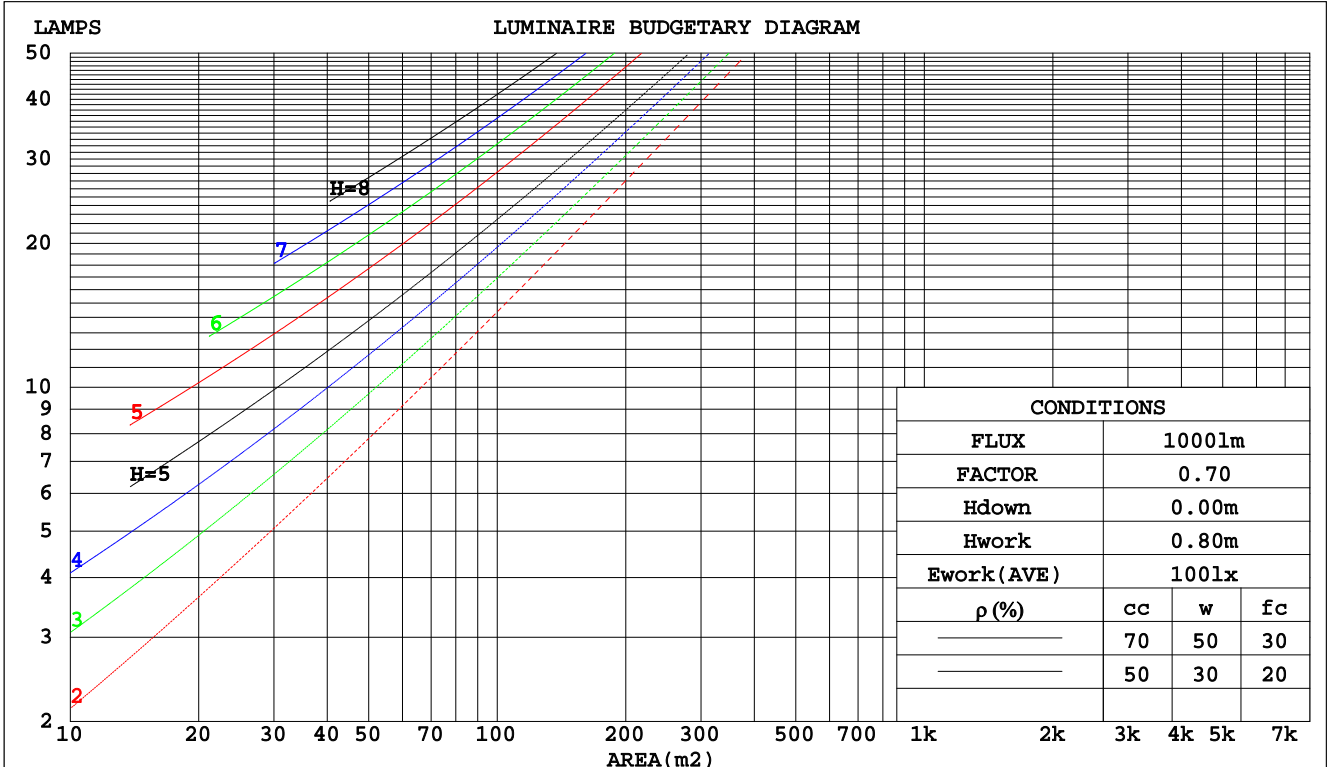
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	1.00	.95	.91	.97	.93	.89	.92	.88	.85	.87	.84	.81	.82	.80	.77	.75
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.69	.75	.70	.66	.71	.67	.64	.61
3.0	.75	.67	.60	.73	.65	.59	.69	.62	.57	.66	.60	.55	.62	.57	.53	.51
4.0	.66	.57	.50	.65	.56	.49	.61	.54	.48	.58	.52	.47	.55	.50	.45	.43
5.0	.59	.50	.43	.58	.49	.42	.55	.47	.41	.52	.46	.40	.50	.44	.39	.37
6.0	.53	.44	.37	.52	.43	.37	.49	.42	.36	.47	.40	.35	.45	.39	.34	.32
7.0	.48	.39	.33	.47	.39	.32	.45	.37	.32	.43	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.28	.39	.33	.28	.38	.32	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.38	.30	.25	.36	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.36	.29	.23	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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	.355	.202	.064	.345	.197	.063	.328	.188	.060	.313	.180	.058	.298	.173	.056	
2.0	.317	.173	.053	.308	.170	.052	.293	.163	.051	.279	.157	.049	.266	.151	.047	
3.0	.286	.152	.046	.279	.149	.045	.265	.144	.044	.252	.138	.042	.241	.133	.041	
4.0	.260	.135	.040	.253	.133	.039	.241	.128	.038	.230	.123	.037	.219	.119	.036	
5.0	.238	.121	.035	.232	.119	.035	.221	.115	.034	.211	.111	.033	.201	.108	.032	
6.0	.219	.110	.031	.214	.108	.031	.204	.105	.030	.195	.101	.030	.186	.098	.029	
7.0	.203	.100	.028	.198	.099	.028	.189	.096	.028	.181	.093	.027	.173	.090	.026	
8.0	.189	.092	.026	.185	.091	.026	.176	.088	.025	.169	.086	.025	.162	.083	.024	
9.0	.176	.085	.024	.173	.084	.024	.165	.082	.023	.158	.079	.023	.152	.077	.022	
10.0	.165	.079	.022	.162	.078	.022	.155	.076	.021	.149	.074	.021	.143	.072	.021	

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	.239	.239	.239	.204	.204	.204	.139	.139	.139	.080	.080	.080	.026	.026	.026	
1.0	.232	.205	.180	.199	.176	.155	.136	.121	.107	.078	.070	.062	.025	.022	.020	
2.0	.225	.181	.144	.192	.156	.125	.132	.108	.087	.076	.063	.051	.024	.020	.017	
3.0	.217	.164	.121	.186	.141	.105	.128	.098	.074	.074	.057	.044	.024	.019	.014	
4.0	.209	.151	.106	.179	.130	.092	.123	.091	.065	.071	.053	.038	.023	.017	.013	
5.0	.201	.141	.096	.173	.122	.083	.119	.085	.059	.069	.050	.035	.022	.016	.012	
6.0	.194	.132	.088	.167	.115	.077	.115	.080	.054	.067	.047	.032	.022	.015	.011	
7.0	.187	.126	.083	.161	.109	.072	.111	.076	.051	.065	.045	.030	.021	.015	.010	
8.0	.180	.120	.078	.155	.104	.068	.107	.073	.049	.062	.043	.029	.020	.014	.010	
9.0	.174	.115	.075	.150	.100	.066	.104	.070	.047	.061	.041	.028	.020	.014	.009	
10.0	.168	.111	.073	.145	.096	.063	.101	.068	.045	.059	.040	.027	.019	.013	.009	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm										
NAME: ASD-LFMMR-13D20CC-NK 5000K					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	19.1	20.6	19.5	20.9	21.3	19.2	20.7	19.5	21.0	21.3
3H	20.9	22.3	21.3	22.7	23.0	21.0	22.4	21.4	22.7	23.1
4H	21.8	23.1	22.2	23.5	23.9	21.9	23.2	22.3	23.6	24.0
6H	22.7	24.0	23.2	24.4	24.8	22.8	24.1	23.3	24.5	24.9
8H	23.2	24.4	23.6	24.8	25.2	23.3	24.5	23.8	24.9	25.4
12H	23.7	24.9	24.2	25.3	25.7	23.9	25.0	24.3	25.4	25.9
4H 2H	19.8	21.1	20.2	21.5	21.9	19.8	21.1	20.2	21.5	21.9
3H	21.8	23.0	22.3	23.4	23.8	21.9	23.0	22.3	23.5	23.9
4H	22.9	23.9	23.3	24.4	24.8	23.0	24.0	23.4	24.5	24.9
6H	24.0	24.9	24.5	25.4	25.9	24.1	25.0	24.6	25.5	26.0
8H	24.5	25.4	25.0	25.9	26.4	24.7	25.5	25.2	26.0	26.5
12H	25.2	26.0	25.7	26.5	27.0	25.3	26.1	25.8	26.6	27.2
8H 4H	23.3	24.2	23.8	24.7	25.2	23.4	24.3	23.9	24.7	25.3
6H	24.6	25.4	25.2	25.9	26.5	24.7	25.5	25.3	26.0	26.6
8H	25.4	26.1	25.9	26.6	27.2	25.5	26.2	26.1	26.7	27.3
12H	26.2	26.8	26.8	27.4	28.0	26.3	26.9	26.9	27.5	28.1
12H 4H	23.4	24.2	23.9	24.7	25.2	23.4	24.3	24.0	24.8	25.3
6H	24.8	25.5	25.4	26.0	26.6	24.9	25.6	25.5	26.1	26.7
8H	25.7	26.2	26.2	26.8	27.4	25.8	26.3	26.3	26.9	27.5
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 / - 0.3				

CIE Pub.117 Corrected 1672 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.8)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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

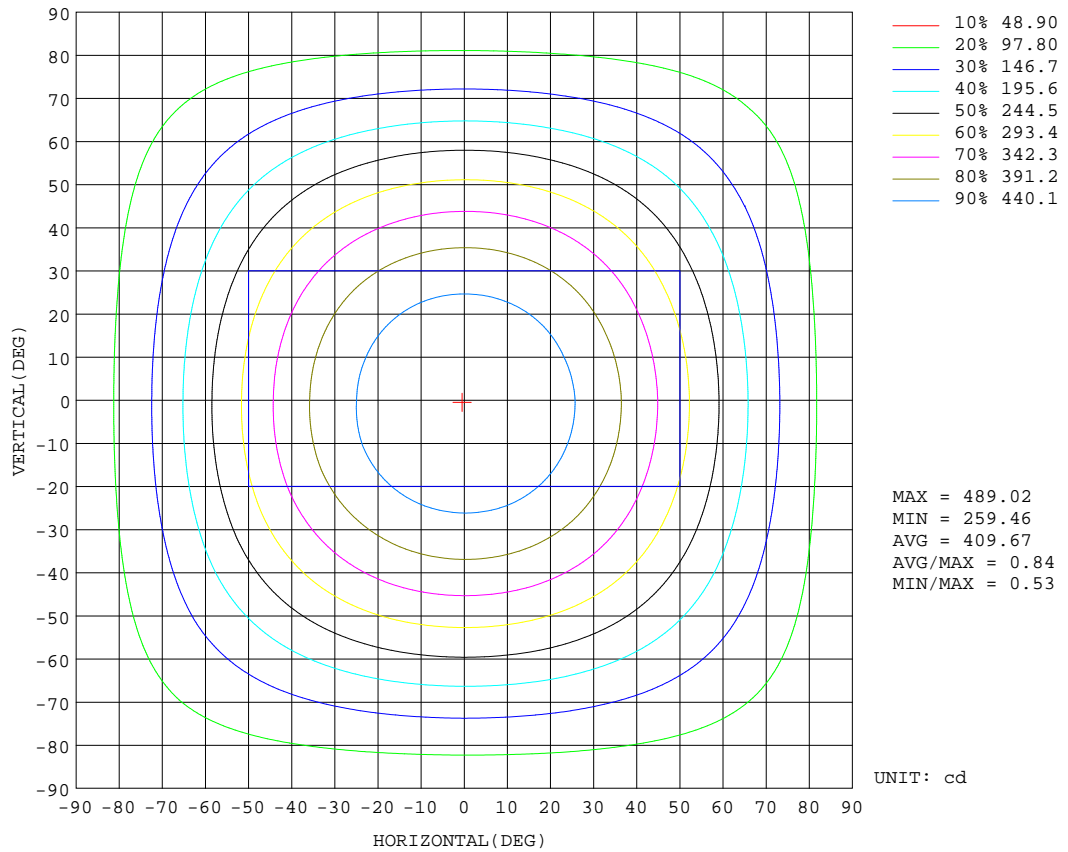
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	53	41	34	51	40	34	27
0.80	63	51	43	62	50	43	60	49	42	35
1.00	71	59	51	70	58	51	67	60	50	42
1.25	78	67	59	76	66	58	73	64	57	49
1.50	83	72	64	81	71	64	77	69	62	54
2.00	90	80	73	88	79	72	84	76	70	61
2.50	94	85	78	92	84	77	87	80	75	65
3.00	98	90	83	95	88	82	90	84	79	69
4.00	102	95	90	99	93	88	94	89	85	74
5.00	105	99	94	102	96	92	96	92	88	77
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:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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

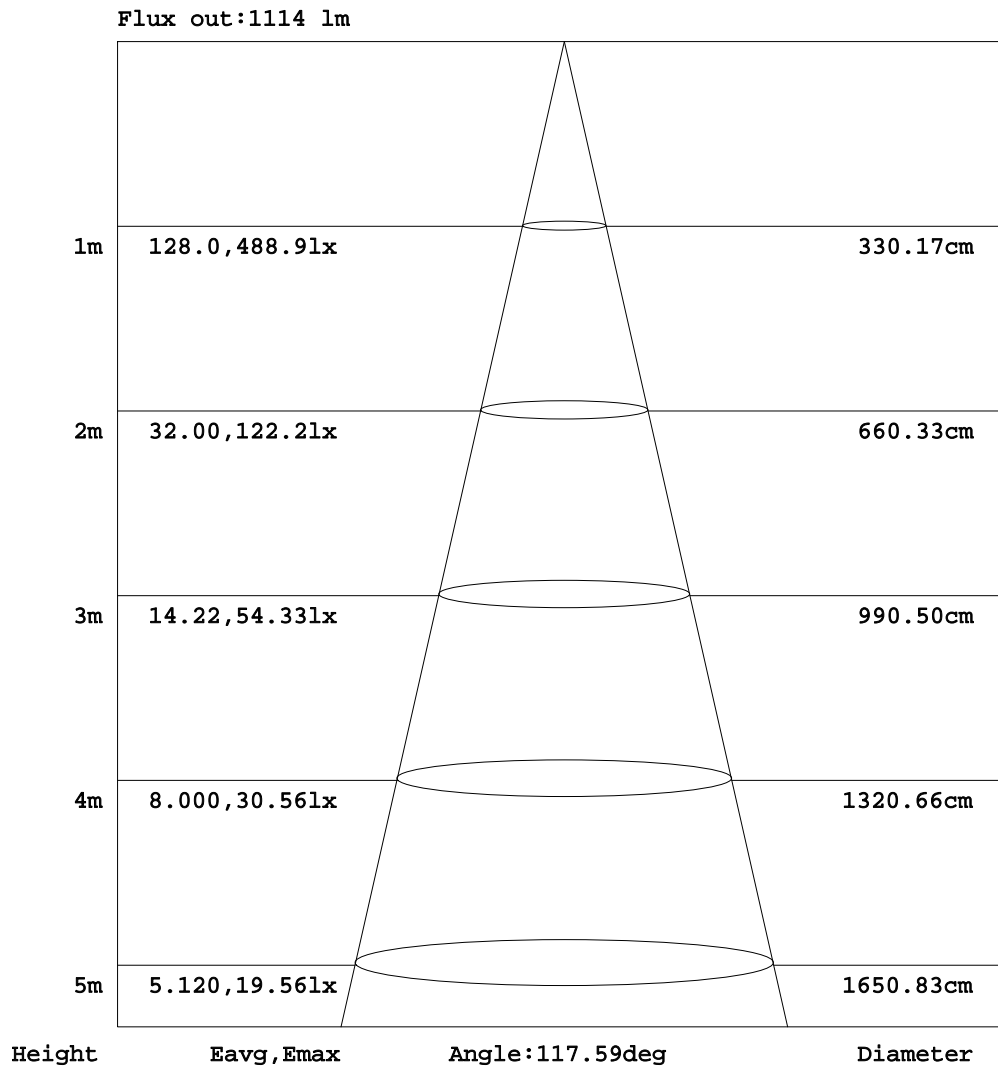


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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



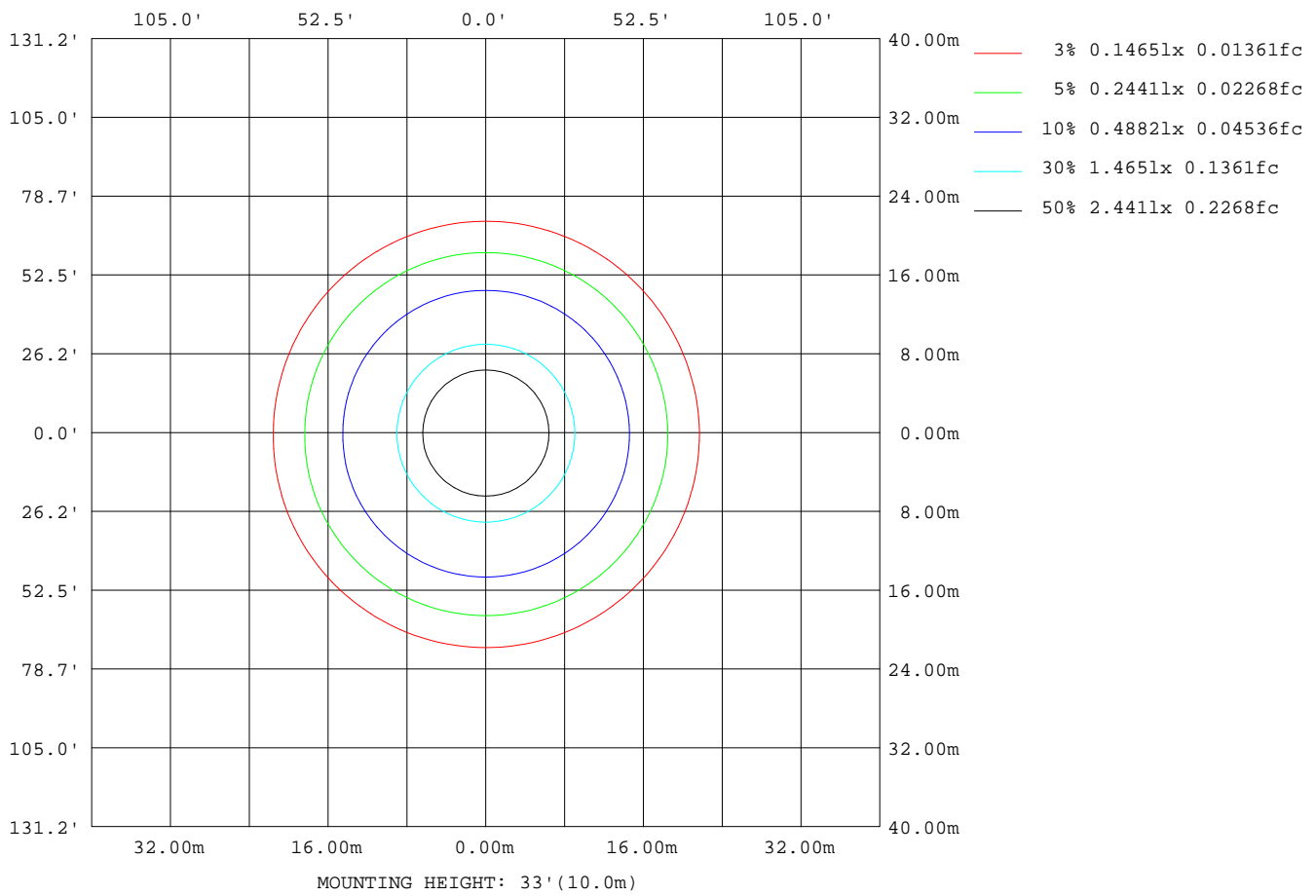
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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:25.6DEG
 Operators:Carl
 Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:51%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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

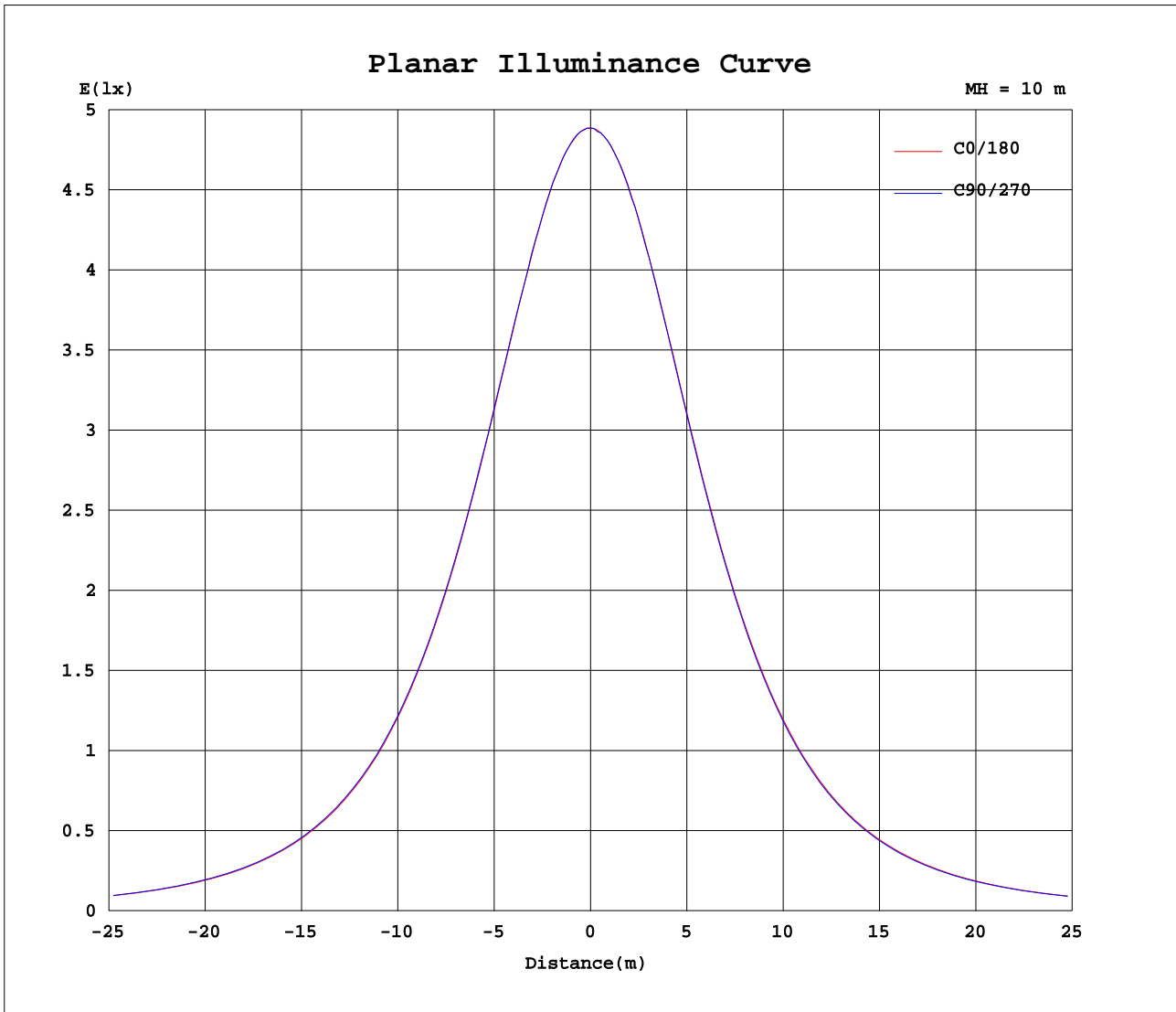
AvgL	cd/m2
L_0~180(65)av	6676
L_0~180(75)av	7299
L_0~180(85)av	13176
L_90~270(65)av	6688
L_90~270(75)av	7353
L_90~270(85)av	13314
L_45(65)av	6675
L_45(75)av	7315
L_45(85)av	13230

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:Carl
Test Date:2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:51%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.6DEG
 Operators: Carl
 Test Date: 2022-05-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 51%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.9V I:0.1851A P:20.75W PF:0.9348 Lamp Flux:1671.7x1 lm		
NAME: ASD-LFMMR-13D20CC-NK 5000K	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	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489			
5	487	487	487	487	487	487	487	487	487	487	487	486	486	486	486	487			
10	482	482	482	481	482	482	482	482	481	481	480	480	480	480	480	481			
15	473	473	473	473	473	472	472	472	471	471	470	470	470	470	470	471			
20	460	460	461	461	460	460	459	459	458	457	456	456	456	456	457	457			
25	443	444	444	444	444	443	443	442	440	439	439	439	439	439	439	440			
30	423	423	424	424	425	424	423	423	420	419	418	418	418	418	419	420			
35	399	400	400	401	401	400	400	399	396	395	394	393	393	394	395	396			
40	372	373	374	374	374	374	372	371	369	367	366	365	365	366	367	368			
45	342	343	344	344	344	344	343	341	338	337	335	334	334	335	336	338			
50	309	310	311	312	312	312	310	309	305	303	302	301	301	302	303	304			
55	274	276	277	278	278	277	276	274	270	268	266	266	266	267	268	270			
60	238	240	241	242	242	241	239	238	233	232	230	230	230	230	232	233			
65	201	203	204	205	205	204	203	201	197	196	194	194	194	194	195	197			
70	167	168	170	170	171	170	168	167	163	162	161	161	161	161	162	163			
75	135	137	138	139	139	138	137	135	132	131	130	130	130	130	130	131			
80	107	108	109	110	110	109	108	107	104	104	103	103	103	103	103	103			
85	82.0	82.8	83.6	84.4	84.4	83.8	83.1	82.5	80.2	80.0	79.9	79.7	79.5	79.3	79.2	79.5			
90	59.7	60.5	61.7	61.8	61.8	61.7	61.0	60.3	58.3	58.1	57.9	57.8	57.6	57.5	57.5	57.6			
95	39.9	40.6	41.3	41.9	42.0	41.6	41.0	40.4	38.9	38.8	38.6	38.4	38.3	38.2	38.1	38.3			
100	24.5	25.1	25.7	26.1	26.2	25.9	25.5	25.2	24.3	24.4	24.4	24.2	24.0	23.7	23.5	23.5			
105	14.1	14.4	14.9	15.2	15.4	15.0	14.8	14.7	14.3	14.6	14.7	14.6	14.3	13.9	13.8	13.7			
110	9.02	9.01	9.18	9.44	9.26	9.12	9.33	9.93	10.6	11.6	12.1	12.2	11.8	11.0	9.99	9.28			
115	9.93	9.77	9.79	9.69	9.56	9.53	9.98	10.8	11.7	12.6	13.0	13.2	12.8	12.0	11.0	10.3			
120	10.9	10.6	10.5	10.4	10.4	10.4	11.0	11.7	12.6	13.5	13.9	14.0	13.7	12.8	11.8	11.4			
125	11.3	11.2	10.7	10.4	10.8	11.0	11.7	12.6	13.3	14.3	14.7	14.8	14.3	13.5	12.4	11.9			
130	11.7	11.1	10.1	9.40	10.2	11.0	12.1	13.2	13.8	14.8	15.3	15.3	14.7	13.9	12.7	12.4			
135	11.5	10.3	9.25	8.59	9.30	10.3	12.2	13.4	14.0	15.3	15.7	15.8	14.8	14.2	12.9	12.4			
140	10.4	9.33	8.34	7.78	8.46	9.44	11.6	13.2	13.9	15.3	15.9	15.9	14.8	14.3	12.8	12.1			
145	9.48	8.26	7.36	6.87	7.61	8.70	10.7	12.4	13.5	15.0	15.4	15.4	14.7	14.2	12.9	11.3			
150	8.13	7.30	6.33	5.98	6.78	7.89	9.77	11.4	12.4	14.3	15.0	14.9	14.4	13.5	12.0	10.2			
155	6.96	6.25	5.14	4.88	5.74	6.91	8.85	10.2	11.0	12.4	13.9	14.2	13.8	12.4	10.6	8.93			
160	5.87	4.92	3.83	3.46	4.31	5.67	7.76	8.91	9.42	9.87	11.5	12.2	11.8	10.9	9.02	7.60			
165	4.51	3.39	2.63	2.26	3.00	4.25	6.03	7.29	7.38	7.46	9.28	9.83	9.63	8.94	7.20	5.94			
170	3.02	2.51	1.75	1.90	1.86	2.91	4.12	5.04	5.55	5.62	7.08	7.39	7.01	6.69	5.46	4.28			
175	1.55	1.37	1.36	1.36	1.40	1.72	2.56	2.98	3.06	3.08	3.66	4.23	4.47	4.07	3.40	2.95			
180	0.94	1.38	1.65	1.58	1.25	0.95	0.65	0.99	1.34	1.39	1.76	2.04	2.02	1.70	1.33	1.04			

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 C Interval: 22.5DEG
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