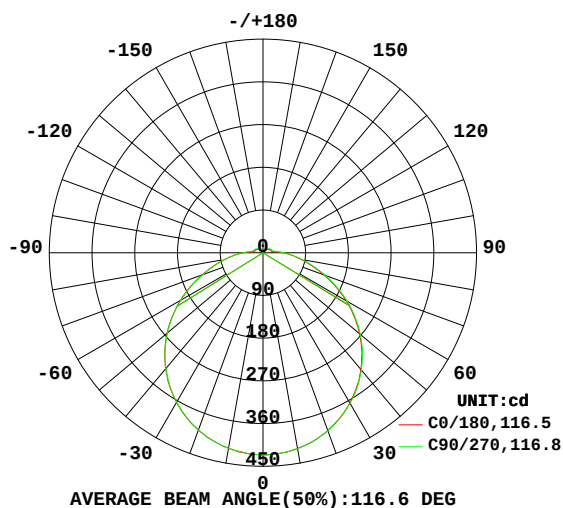


LUMINAIRE PHOTOMETRIC TEST REPORT

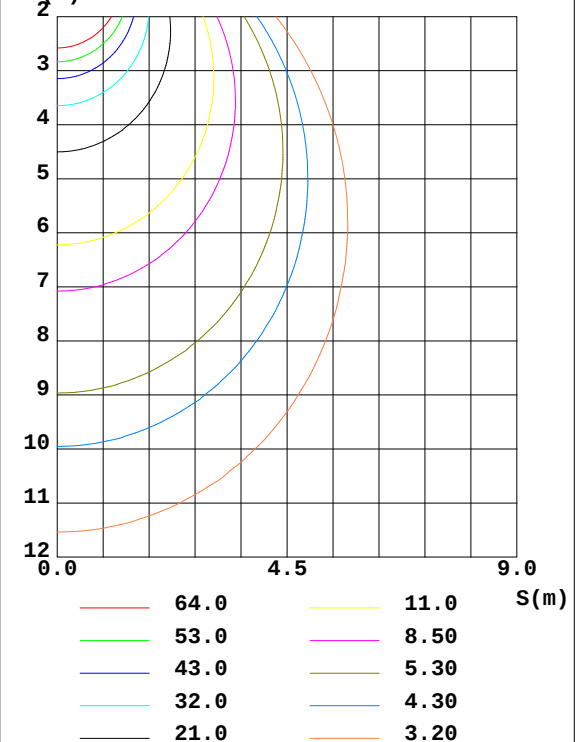
Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME: ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.37 lm/W			
MODEL	ASD-LFMDR-14D21SM-RGBW-NK	I _{max} (cd)	426.3	S/MH(C0/180)	1.28
NOMINAL POWER(W)	21W	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1429.7	η UP, DN(C0-180)	3.4, 46.4
NOMINAL FLUX(lm)	1429.69	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.4, 46.9
LAMPS INSIDE	1	η up(%)	6.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	93.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

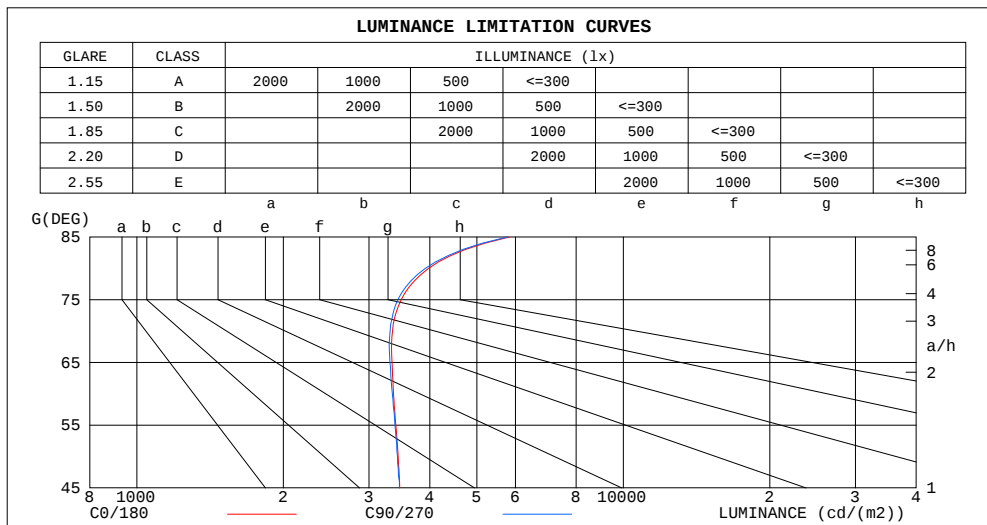
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	418.2	418.3	418.2	418.1	418.8	419.5	419.2	419.4	0- 10	40.32	40.32	2.82, 2.82
20	397.6	397.3	397.5	397.5	399.0	399.6	399.4	399.3	10- 20	115.8	156.2	10.9, 10.9
30	364.4	363.5	363.8	364.1	365.9	366.4	366.4	366.5	20- 30	176.8	332.9	23.3, 23.3
40	318.9	318.1	318.5	318.8	320.9	321.8	322.6	322.0	30- 40	215.3	548.2	38.3, 38.3
50	263.8	263.6	263.0	263.1	265.7	266.9	267.7	267.3	40- 50	226.7	775.0	54.2, 54.2
60	200.8	200.8	199.7	199.7	202.5	203.7	205.0	204.7	50- 60	209.5	984.5	68.9, 68.9
70	136.7	136.4	135.2	134.7	136.7	137.7	139.6	139.7	60- 70	167.7	1152	80.6, 80.6
80	82.33	81.88	81.07	80.70	81.73	82.59	84.22	84.34	70- 80	114.4	1267	88.6, 88.6
90	41.90	42.31	42.35	41.75	42.56	43.36	44.53	43.92	80- 90	66.93	1333	93.3, 93.3
100	18.56	21.22	21.61	21.21	19.03	21.85	22.37	21.33	90-100	32.74	1366	95.6, 95.6
110	17.10	18.59	19.40	19.00	17.20	18.45	19.07	18.61	100-110	19.92	1386	97, 97
120	14.26	15.45	16.63	16.06	14.89	16.21	16.74	15.70	110-120	17.02	1403	98.1, 98.1
130	10.71	11.80	12.67	12.60	11.47	12.54	13.07	11.75	120-130	12.49	1416	99, 99
140	7.037	7.941	9.064	8.811	7.793	8.603	9.376	7.772	130-140	7.897	1424	99.6, 99.6
150	3.635	4.214	5.028	4.853	4.064	4.704	4.932	4.086	140-150	4.017	1428	99.8, 99.8
160	2.218	2.526	2.746	2.537	1.888	2.365	2.429	2.204	150-160	1.530	1429	100, 100
170	1.361	1.389	1.503	1.367	1.004	1.199	1.289	1.067	160-170	0.5157	1430	100, 100
180	0.7168	0.7188	0.7174	0.7178	0.7180	0.7195	0.7172	0.7188	170-180	0.0990	1430	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2024-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity: 51%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME:ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	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	5832	5776
80	3978	3916
75	3495	3439
70	3353	3316
65	3347	3313
60	3370	3350
55	3408	3393
50	3444	3432
45	3469	3464

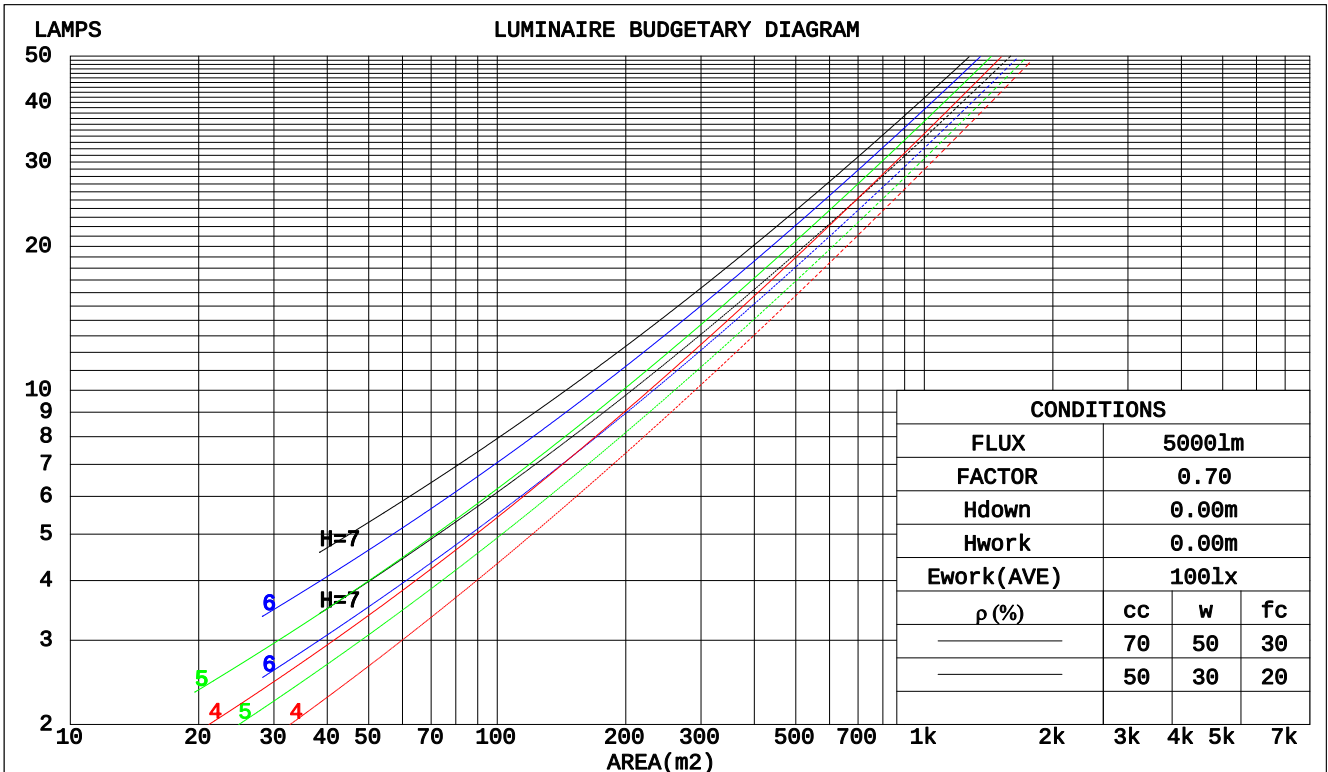
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME:ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	1.00	.96	.91	.97	.93	.89	.92	.88	.85	.87	.84	.81	.82	.80	.78	.75
2.0	.87	.80	.73	.84	.78	.72	.80	.74	.69	.75	.71	.67	.71	.68	.64	.62
3.0	.76	.67	.60	.74	.66	.59	.70	.63	.58	.66	.60	.56	.63	.58	.54	.51
4.0	.67	.58	.51	.65	.57	.50	.62	.54	.49	.59	.52	.47	.56	.50	.46	.44
5.0	.60	.50	.44	.58	.49	.43	.55	.48	.42	.53	.46	.41	.50	.44	.40	.37
6.0	.54	.44	.38	.52	.44	.37	.50	.42	.37	.47	.41	.36	.45	.39	.35	.33
7.0	.49	.40	.33	.47	.39	.33	.45	.38	.32	.43	.37	.32	.41	.35	.31	.29
8.0	.44	.36	.30	.43	.35	.29	.41	.34	.29	.40	.33	.28	.38	.32	.28	.26
9.0	.41	.32	.27	.40	.32	.26	.38	.31	.26	.36	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.37	.29	.24	.35	.28	.23	.34	.27	.23	.32	.27	.23	.21



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm					
NAME:ASD-LFMDR-14D21SM-RGBW-NK			TYPE: N/A		WEIGHT: N/A
SPEC.:6500K			DIM.: N/A		SERIAL No.: N/A
MFR.: ASD Lighting Corp			SUR.: N/A		Shielding Angle: N/A

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.345	.196	.062	.336	.192	.061	.319	.183	.058	.303	.175	.056	.288	.167	.054	
2.0	.311	.170	.052	.303	.167	.051	.287	.160	.050	.273	.153	.048	.260	.147	.046	
3.0	.282	.150	.045	.275	.147	.044	.261	.141	.043	.248	.136	.042	.236	.131	.040	
4.0	.257	.134	.039	.250	.131	.039	.238	.126	.038	.227	.122	.037	.216	.117	.036	
5.0	.236	.120	.035	.230	.118	.034	.219	.114	.034	.208	.110	.033	.199	.106	.032	
6.0	.217	.109	.031	.212	.107	.031	.202	.104	.030	.193	.100	.029	.184	.097	.029	
7.0	.202	.100	.028	.197	.098	.028	.188	.095	.027	.179	.092	.027	.171	.089	.026	
8.0	.188	.092	.026	.183	.090	.026	.175	.088	.025	.167	.085	.024	.160	.082	.024	
9.0	.175	.085	.024	.172	.084	.023	.164	.081	.023	.157	.079	.023	.150	.076	.022	
10.0	.165	.079	.022	.161	.078	.022	.154	.076	.021	.148	.073	.021	.142	.071	.020	

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.242	.242	.242	.207	.207	.207	.141	.141	.141	.081	.081	.081	.026	.026	.026	
1.0	.234	.208	.183	.201	.178	.158	.137	.123	.109	.079	.071	.063	.025	.023	.021	
2.0	.227	.184	.148	.194	.158	.128	.133	.110	.089	.077	.064	.052	.025	.021	.017	
3.0	.219	.167	.125	.188	.144	.108	.129	.100	.076	.074	.058	.045	.024	.019	.015	
4.0	.211	.154	.110	.181	.133	.095	.125	.093	.067	.072	.054	.040	.023	.018	.013	
5.0	.204	.144	.099	.175	.124	.086	.121	.087	.061	.070	.051	.036	.023	.017	.012	
6.0	.196	.135	.091	.169	.117	.080	.116	.082	.056	.068	.048	.034	.022	.016	.011	
7.0	.189	.129	.086	.163	.111	.075	.113	.078	.053	.065	.046	.032	.021	.015	.010	
8.0	.183	.123	.082	.157	.107	.071	.109	.075	.050	.063	.044	.030	.021	.014	.010	
9.0	.177	.118	.078	.152	.102	.068	.105	.072	.048	.061	.042	.029	.020	.014	.010	
10.0	.171	.114	.076	.147	.099	.066	.102	.069	.047	.060	.041	.028	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm										
NAME: ASD-LFMDR-14D21SM-RGBW-NK					TYPE: N/A			WEIGHT: N/A		
SPEC.:6500K					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	16.9	15.8	17.2	17.6	15.4	16.9	15.8	17.2	17.5
3H	17.2	18.5	17.5	18.9	19.2	17.1	18.5	17.5	18.8	19.2
4H	18.0	19.3	18.4	19.6	20.0	17.9	19.2	18.3	19.6	20.0
6H	18.8	20.0	19.2	20.4	20.8	18.7	19.9	19.1	20.3	20.7
8H	19.2	20.4	19.6	20.8	21.2	19.1	20.3	19.6	20.7	21.1
12H	19.6	20.8	20.1	21.2	21.6	19.6	20.7	20.0	21.1	21.6
4H 2H	16.1	17.4	16.5	17.7	18.1	16.0	17.3	16.5	17.7	18.1
3H	18.0	19.1	18.4	19.5	20.0	18.0	19.1	18.4	19.5	20.0
4H	19.0	20.0	19.4	20.4	20.9	18.9	19.9	19.4	20.4	20.9
6H	19.9	20.9	20.4	21.3	21.8	19.9	20.8	20.4	21.3	21.8
8H	20.4	21.3	21.0	21.8	22.3	20.4	21.2	20.9	21.7	22.3
12H	21.0	21.8	21.5	22.3	22.8	20.9	21.7	21.5	22.2	22.8
8H 4H	19.3	20.2	19.8	20.7	21.2	19.3	20.2	19.8	20.6	21.2
6H	20.5	21.3	21.1	21.8	22.4	20.5	21.2	21.0	21.7	22.3
8H	21.2	21.9	21.8	22.4	23.0	21.2	21.8	21.7	22.3	22.9
12H	22.0	22.5	22.5	23.1	23.7	21.9	22.5	22.5	23.0	23.6
12H 4H	19.4	20.2	19.9	20.7	21.2	19.3	20.1	19.9	20.6	21.2
6H	20.7	21.3	21.2	21.9	22.5	20.6	21.3	21.2	21.8	22.4
8H	21.4	22.0	22.0	22.6	23.2	21.4	22.0	22.0	22.5	23.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1430 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.2$)
Area: 0.119241 m²

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME: ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

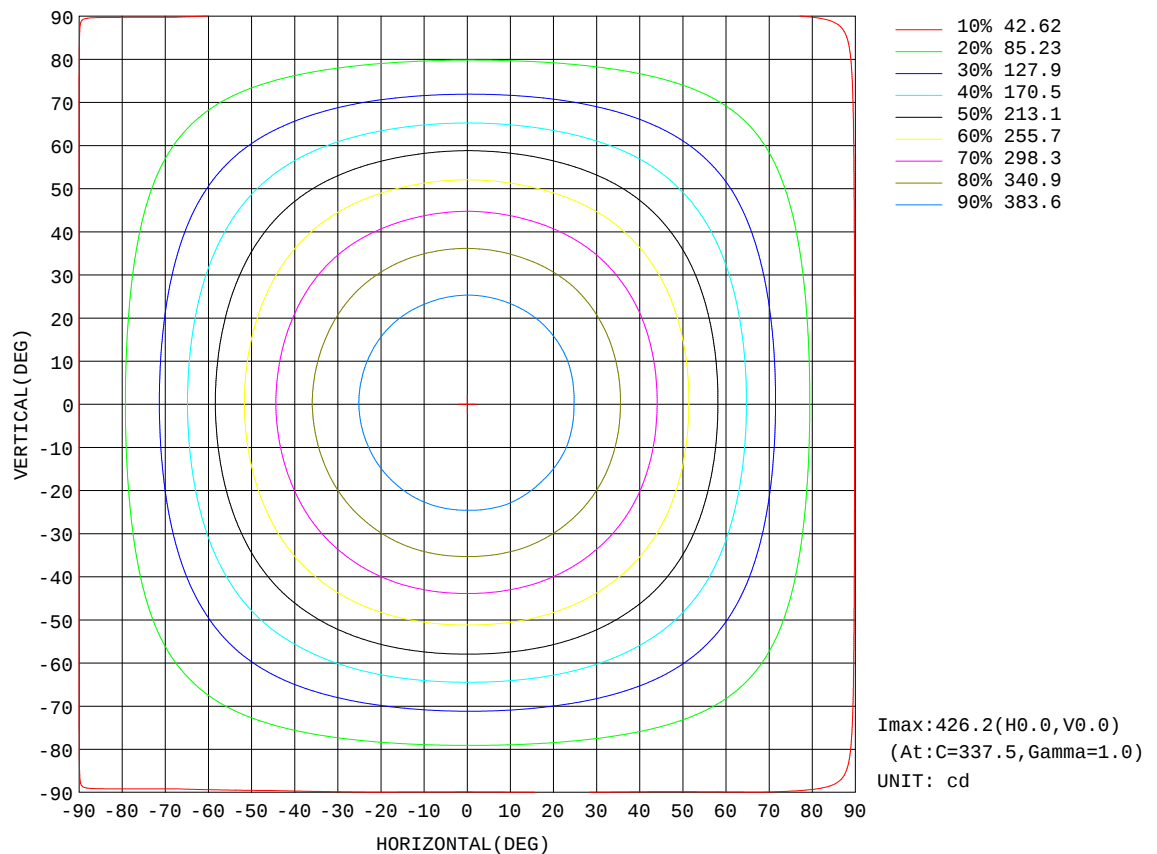
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	41	34	51	41	34	28
0.80	63	51	44	62	51	43	60	50	43	35
1.00	72	60	52	70	59	52	67	60	51	43
1.25	79	67	59	77	66	59	73	64	58	50
1.50	84	73	65	81	72	64	78	69	63	54
2.00	91	81	74	88	79	73	84	77	71	61
2.50	95	86	79	92	84	78	87	81	75	65
3.00	98	90	84	95	88	82	90	85	80	69
4.00	102	96	90	99	94	88	94	89	85	74
5.00	105	99	94	102	97	92	96	92	89	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:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME: ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

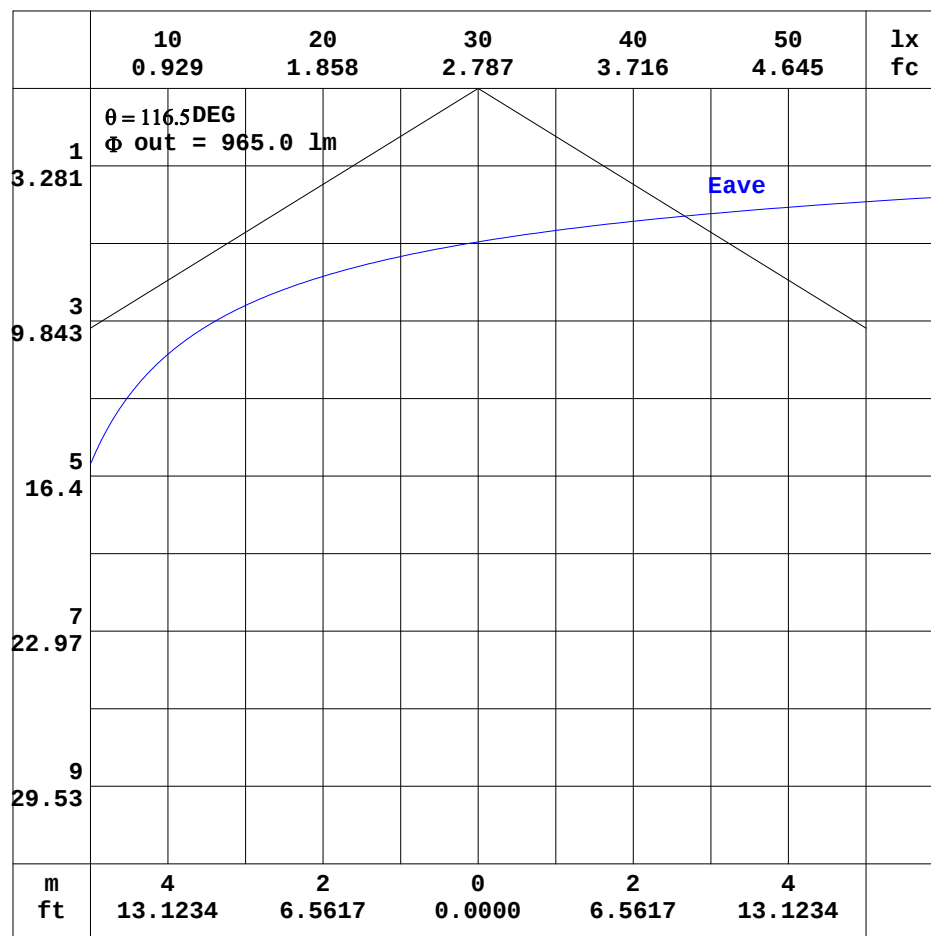


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Water
Test Date: 2024-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 51%
Test Distance: 2.519m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME: ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



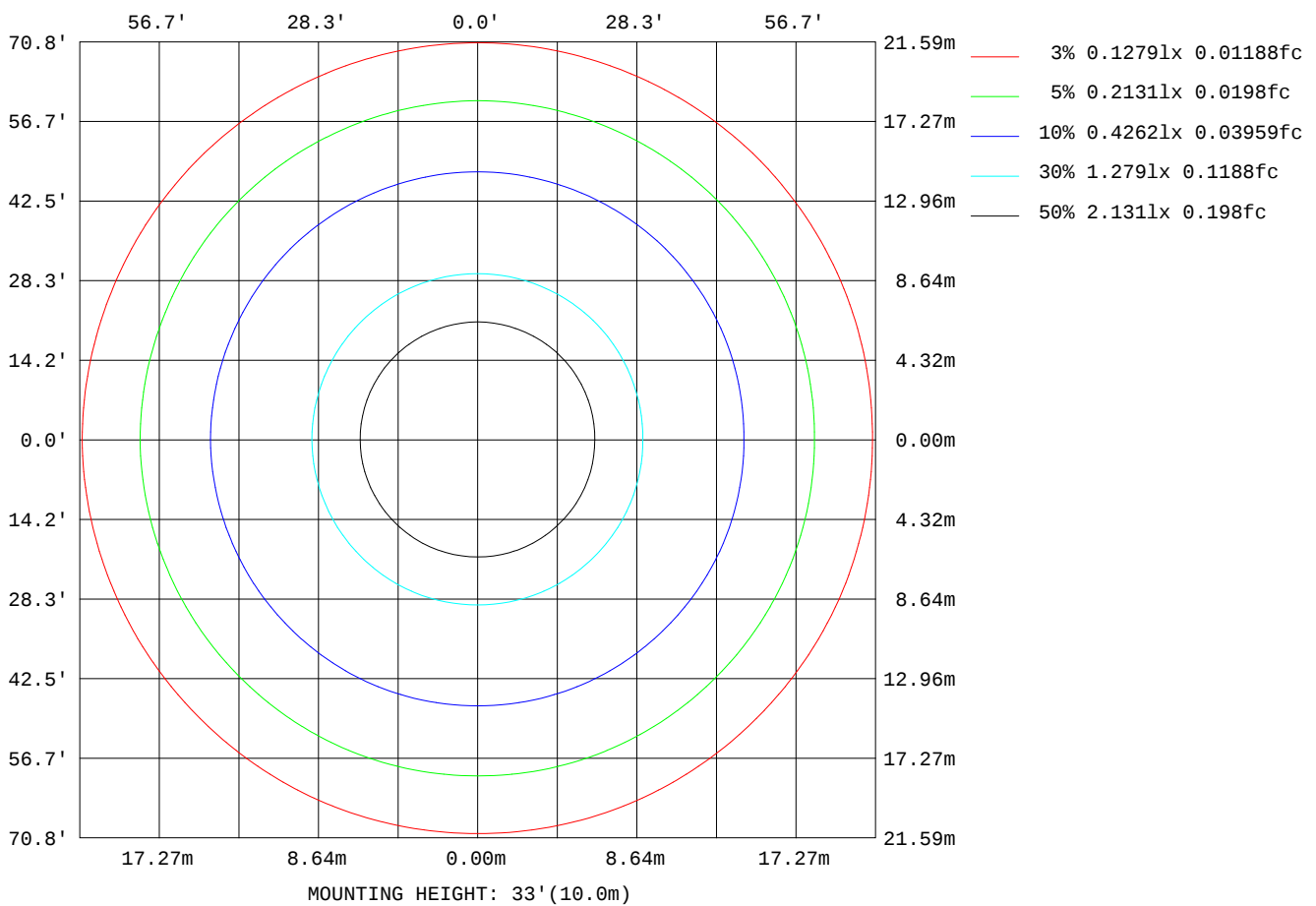
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME: ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	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:24.8DEG
Operators:Water
Test Date:2024-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME: ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

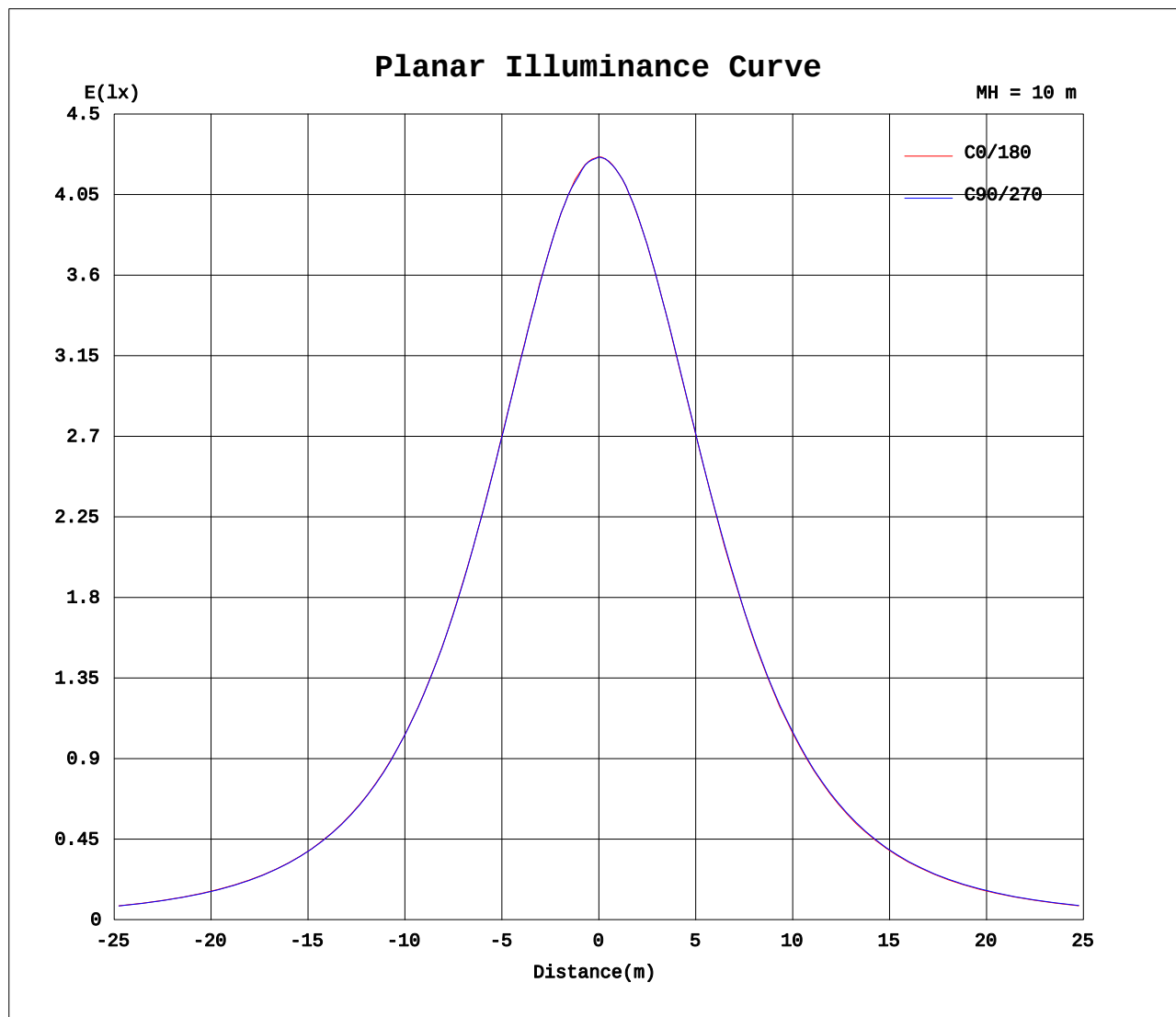
AvgL	cd/m2
L_0~180(65)av	3354
L_0~180(75)av	3482
L_0~180(85)av	5827
L_90~270(65)av	3360
L_90~270(75)av	3497
L_90~270(85)av	5891
L_45(65)av	3359
L_45(75)av	3490
L_45(85)av	5847

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:51%
Test Distance:2.519m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2024-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity: 51%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.1795A P:20.910W PF:0.9699 Freq:60.00Hz Lamp Flux:1429.69x1 lm		
NAME:ASD-LFMDR-14D21SM-RGBW-NK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	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	426	426	426	426	426	426	426	426	426	426	426	426	426	426	426	426			
5	424	424	424	424	423	424	424	425	424	424	424	424	424	424	425	425			
10	418	419	418	418	418	419	418	419	419	419	419	419	419	419	419	420			
15	410	410	410	410	410	410	410	410	410	411	411	410	411	410	411	411			
20	398	398	397	398	397	398	398	398	399	399	400	399	399	399	399	399			
25	382	383	383	383	382	382	383	383	384	384	384	384	384	384	385	385			
30	364	365	364	364	364	364	364	365	366	365	366	366	366	366	367	366			
35	343	343	343	343	342	343	343	344	345	345	345	345	347	345	346	345			
40	319	320	318	319	318	319	319	320	321	321	322	322	323	322	322	321			
45	292	293	292	293	292	292	292	293	295	294	296	296	297	296	296	295			
50	264	264	264	264	263	264	263	264	266	266	267	266	268	267	267	267			
55	233	233	232	233	232	233	232	233	235	235	236	237	237	237	237	236			
60	201	201	201	201	200	200	200	200	203	202	204	204	205	204	205	204			
65	169	169	168	168	167	167	167	168	169	169	171	171	172	171	172	171			
70	137	137	136	136	135	135	135	135	137	137	138	139	140	140	140	139			
75	108	107	107	106	106	106	106	106	107	107	108	109	110	110	110	110			
80	82.3	82.2	81.9	81.4	81.1	81.0	80.7	80.4	81.7	81.8	82.6	83.7	84.2	84.4	84.3	84.0			
85	60.6	60.6	60.4	60.3	60.0	59.9	59.3	59.1	60.5	60.4	61.0	62.0	62.4	63.4	62.3	62.1			
90	41.9	42.6	42.3	42.7	42.3	42.5	41.8	41.7	42.6	42.2	43.4	43.9	44.5	44.0	43.9	43.2			
95	24.9	28.6	29.1	29.3	29.2	29.6	28.9	28.7	26.2	28.7	30.0	30.6	31.0	30.3	29.9	28.8			
100	18.6	18.7	21.2	21.4	21.6	21.9	21.2	19.5	19.0	19.3	21.8	22.0	22.4	22.0	21.3	19.1			
105	17.6	16.9	19.2	19.6	19.9	20.0	19.5	17.6	17.6	16.8	19.1	19.3	19.4	19.4	19.1	17.0			
110	17.1	16.7	18.6	19.2	19.4	19.5	19.0	17.4	17.2	16.7	18.4	18.9	19.1	19.0	18.6	16.7			
115	15.9	15.8	17.2	18.1	18.3	18.2	17.9	16.5	16.3	16.1	17.6	18.2	18.3	18.0	17.7	15.7			
120	14.3	14.2	15.5	16.3	16.6	16.8	16.1	15.0	14.9	14.9	16.2	16.8	16.7	16.4	15.7	14.2			
125	12.6	12.6	13.7	14.4	14.7	14.9	14.4	13.4	13.3	13.3	14.5	15.0	15.0	14.6	13.8	12.4			
130	10.7	10.8	11.8	12.5	12.7	13.1	12.6	11.6	11.5	11.7	12.5	13.0	13.1	12.6	11.8	10.8			
135	8.92	9.03	9.86	10.5	10.8	11.0	10.7	9.90	9.77	9.98	10.5	11.0	10.9	10.5	9.80	9.12			
140	7.04	7.23	7.94	8.44	9.06	9.10	8.81	8.11	7.79	8.12	8.60	8.95	9.38	8.41	7.77	7.13			
145	5.20	5.46	6.13	6.38	6.88	7.07	7.03	6.31	5.90	6.22	6.65	6.89	6.83	6.49	5.93	5.25			
150	3.64	3.88	4.21	4.80	5.03	5.20	4.85	4.46	4.06	4.39	4.70	5.03	4.93	4.52	4.09	3.61			
155	2.86	2.93	3.17	3.55	3.65	3.53	3.38	3.14	2.59	2.91	3.09	3.35	3.47	3.14	2.93	2.62			
160	2.22	2.21	2.53	2.69	2.75	2.64	2.54	2.49	1.89	2.07	2.37	2.42	2.43	2.29	2.20	2.06			
165	1.78	1.73	1.92	1.98	1.87	2.00	1.88	1.77	1.45	1.46	1.64	1.73	1.74	1.66	1.61	1.40			
170	1.36	1.38	1.39	1.39	1.50	1.49	1.37	1.36	1.00	1.05	1.20	1.27	1.29	1.24	1.07	1.05			
175	0.93	0.92	0.99	1.01	1.07	1.04	0.99	0.98	0.76	0.75	0.76	0.91	0.97	0.90	0.85	0.82			
180	0.72	0.72	0.72	0.71	0.72	0.71	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.71	0.72	0.72			

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