

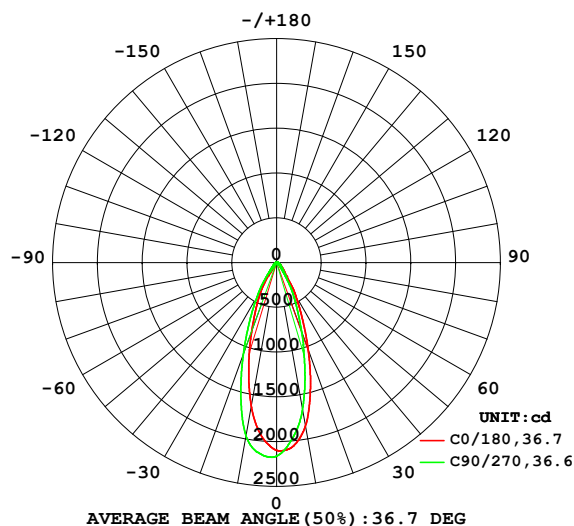
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

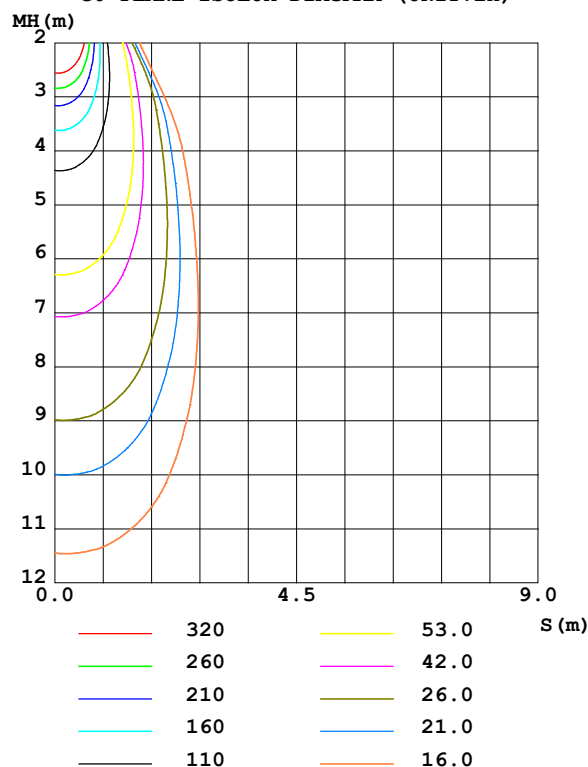
Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.42 lm/W			
MODEL	ASD-CD-TR-2D15WH	I _{max} (cd)	2175	S/MH (C0/180)	0.55
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.65
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1075.8	η UP, DN (C0-180)	0.4, 45.8
NOMINAL FLUX (lm)	1075.79	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 53.4
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	99.3	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.3 °C
Operators:
Test Date: 2026-01-07

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1854	1594	1669	1733	1632	1893	1967	1909	0- 10	187.1	187.1	17.4,17.4
20	1033	782.4	818.5	889.5	818.3	1070	1093	1066	10- 20	374.7	561.8	52.2,52.2
30	432.1	297.1	304.8	339.6	306.6	433.8	434.4	433.4	20- 30	282.3	844.1	78.5,78.5
40	107.2	78.52	78.05	81.48	77.44	108.2	111.6	108.3	30- 40	121.0	965.1	89.7,89.7
50	48.49	40.15	40.60	42.29	40.02	47.61	47.33	45.48	40- 50	48.28	1013	94.2,94.2
60	24.94	21.18	21.32	22.21	20.93	25.06	25.25	23.90	50- 60	28.95	1042	96.9,96.9
70	12.56	10.80	10.95	11.85	11.06	12.91	12.67	12.02	60- 70	16.94	1059	98.5,98.5
80	2.837	1.674	3.479	3.122	2.523	3.841	4.514	3.788	70- 80	7.754	1067	99.2,99.2
90	0.1291	0.1713	0.1504	0.1179	0.0907	0.0938	0.1082	0.0906	80- 90	1.024	1068	99.3,99.3
100	0.1368	0.1457	0.1523	0.1441	0.1313	0.1198	0.1303	0.1276	90-100	0.1241	1068	99.3,99.3
110	0.2137	0.2364	0.2456	0.2241	0.2162	0.1892	0.2047	0.2006	100-110	0.1820	1068	99.3,99.3
120	0.3408	0.4094	0.4226	0.3898	0.3595	0.2961	0.3207	0.3124	110-120	0.2740	1069	99.3,99.3
130	0.7010	0.9440	0.9733	0.9030	0.7940	0.5837	0.6213	0.6404	120-130	0.4661	1069	99.4,99.4
140	1.806	2.346	2.369	2.138	1.933	1.440	1.541	1.635	130-140	0.9690	1070	99.5,99.5
150	3.994	4.461	4.282	3.830	3.726	2.971	3.228	3.465	140-150	1.745	1072	99.6,99.6
160	5.743	5.539	5.311	4.806	4.694	4.279	4.698	4.879	150-160	2.081	1074	99.8,99.8
170	5.355	5.219	4.976	4.540	4.464	4.658	5.071	5.299	160-170	1.435	1075	100,100
180	4.895	4.884	4.734	4.932	4.893	4.884	4.722	4.932	170-180	0.4604	1076	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

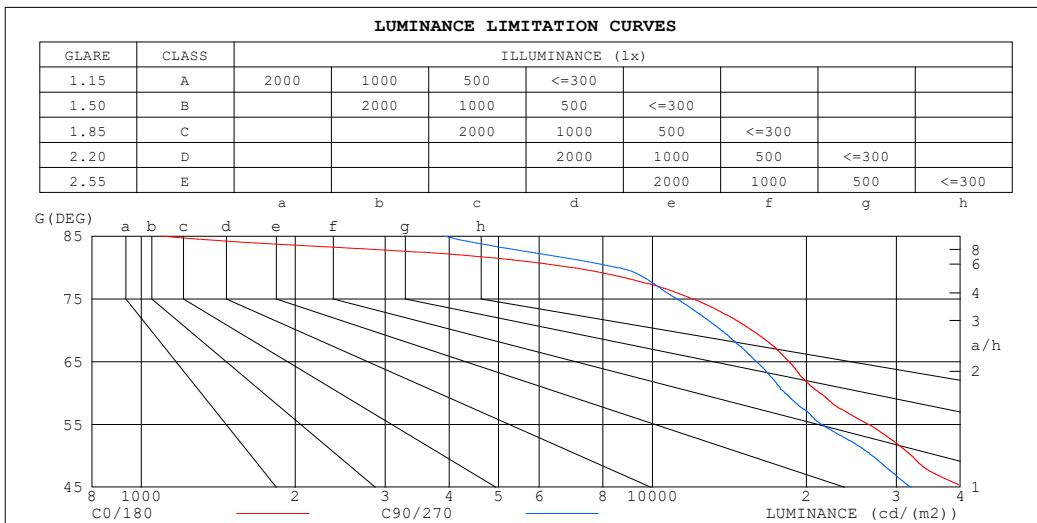
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2026-01-07

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1152	4037
80	7143	8727
75	12147	11288
70	15775	13755
65	18599	16101
60	21404	18279
55	26679	21583
50	32309	27078
45	41204	32276

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.3°C
Operators:
Test Date: 2026-01-07

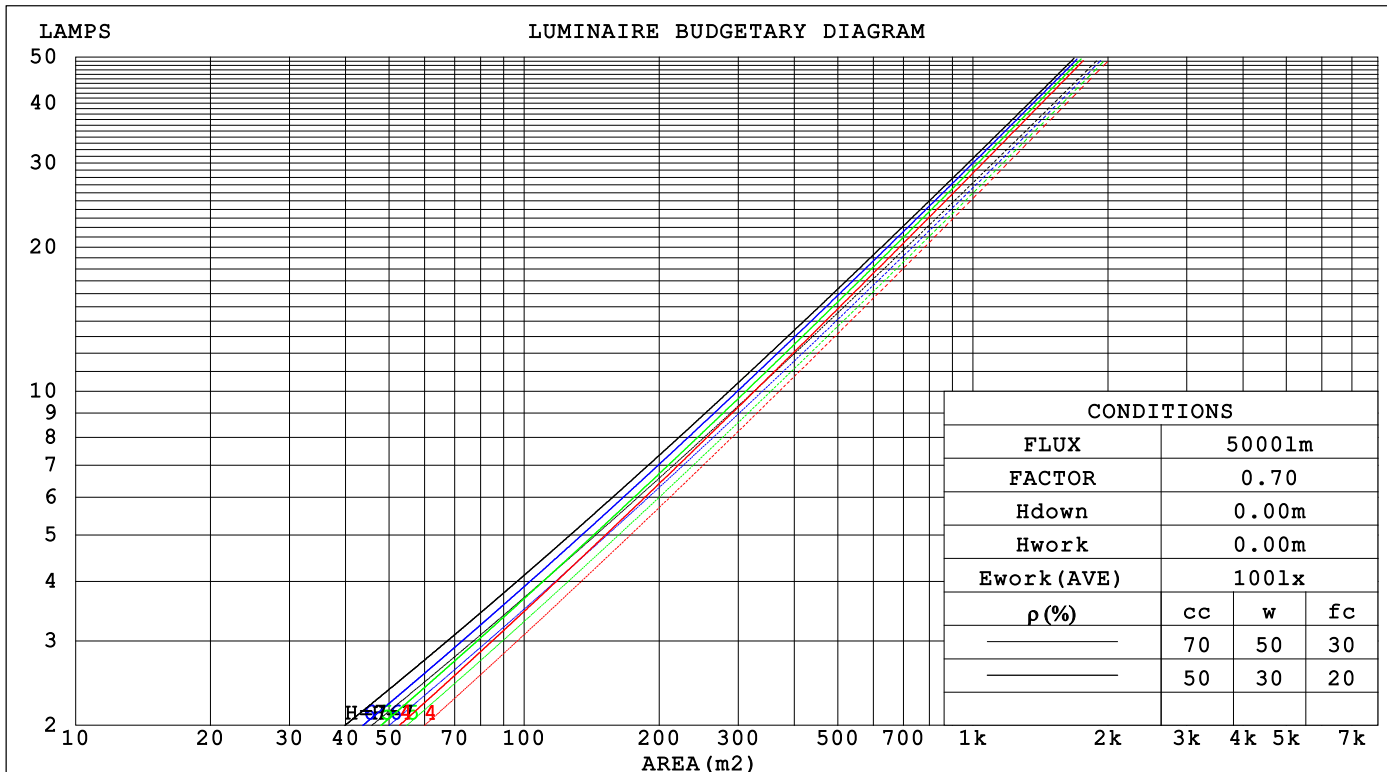
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Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.11	1.08	1.06	1.09	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.90	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.92	.91	.89	.87
3.0	.97	.92	.88	.96	.91	.88	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.81	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.80	.77	.74	.73
6.0	.82	.76	.72	.81	.76	.72	.79	.75	.71	.78	.74	.71	.77	.73	.70	.69
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.67	.74	.70	.67	.73	.69	.67	.65
8.0	.74	.68	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.66	.63	.62
9.0	.70	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.61	.59
10.0	.67	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.65	.61	.58	.57



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2026-01-07

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.174	.099	.031	.168	.096	.030	.155	.089	.028	.143	.082	.026	.132	.076	.025		
2.0	.165	.091	.028	.160	.088	.027	.149	.083	.026	.139	.078	.024	.129	.073	.023		
3.0	.156	.083	.025	.151	.081	.024	.142	.077	.023	.133	.073	.022	.125	.069	.021		
4.0	.147	.077	.022	.143	.075	.022	.135	.072	.021	.127	.068	.021	.121	.066	.020		
5.0	.139	.071	.021	.136	.070	.020	.129	.067	.020	.122	.064	.019	.116	.062	.019		
6.0	.132	.066	.019	.129	.065	.019	.123	.063	.018	.117	.061	.018	.112	.059	.017		
7.0	.126	.062	.018	.123	.061	.017	.117	.059	.017	.112	.058	.017	.107	.056	.016		
8.0	.120	.058	.016	.117	.058	.016	.112	.056	.016	.108	.055	.016	.103	.053	.015		
9.0	.114	.055	.015	.112	.055	.015	.108	.053	.015	.104	.052	.015	.100	.051	.015		
10.0	.109	.052	.015	.107	.052	.014	.103	.051	.014	.100	.049	.014	.096	.048	.014		

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						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021		
1.0	.176	.163	.151	.151	.140	.130	.103	.096	.090	.059	.056	.052	.019	.018	.017		
2.0	.161	.138	.119	.138	.119	.103	.094	.082	.072	.054	.048	.042	.017	.015	.014		
3.0	.148	.119	.096	.127	.103	.083	.087	.071	.058	.050	.042	.034	.016	.014	.011		
4.0	.137	.104	.079	.118	.090	.069	.081	.063	.048	.047	.037	.029	.015	.012	.009		
5.0	.128	.093	.066	.110	.080	.058	.076	.056	.041	.044	.033	.024	.014	.011	.008		
6.0	.120	.083	.057	.103	.072	.049	.071	.050	.035	.041	.030	.021	.013	.010	.007		
7.0	.113	.075	.049	.098	.065	.043	.067	.046	.030	.039	.027	.018	.013	.009	.006		
8.0	.107	.069	.043	.092	.060	.037	.064	.042	.026	.037	.025	.016	.012	.008	.005		
9.0	.102	.064	.038	.088	.055	.033	.061	.039	.023	.035	.023	.014	.011	.008	.005		
10.0	.097	.059	.034	.084	.051	.030	.058	.036	.021	.034	.021	.013	.011	.007	.004		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3℃
Operators:
Test Date:2026-01-07

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm										
NAME: ASD-CD-TR-2D15WH						TYPE:		WEIGHT:		
SPEC.: 5000K						DIM.:		SERIAL No.:		
MFR.: ASD Lighting Corp						SUR.:		Shielding Angle:		
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	20.0	20.8	20.2	21.0	21.2	18.4	19.3	18.6	19.5	19.6
3H	20.4	21.2	20.7	21.4	21.6	19.0	19.8	19.2	20.0	20.2
4H	20.5	21.3	20.8	21.5	21.8	19.1	19.9	19.4	20.1	20.4
6H	20.6	21.3	20.9	21.5	21.8	19.2	19.9	19.5	20.2	20.5
8H	20.5	21.2	20.8	21.5	21.8	19.2	19.9	19.5	20.2	20.4
12H	20.5	21.1	20.8	21.4	21.7	19.2	19.8	19.5	20.1	20.4
4H 2H	20.0	20.8	20.3	21.0	21.2	18.6	19.4	18.9	19.6	19.9
3H	20.6	21.3	20.9	21.5	21.8	19.3	20.0	19.6	20.3	20.6
4H	20.8	21.4	21.1	21.7	22.0	19.5	20.2	19.9	20.5	20.8
6H	20.8	21.4	21.2	21.7	22.1	19.7	20.2	20.0	20.5	20.9
8H	20.8	21.3	21.2	21.7	22.0	19.7	20.2	20.1	20.5	20.9
12H	20.7	21.2	21.2	21.6	22.0	19.6	20.1	20.0	20.5	20.9
8H 4H	20.7	21.2	21.1	21.6	22.0	19.6	20.1	20.0	20.4	20.8
6H	20.8	21.2	21.2	21.6	22.1	19.7	20.1	20.1	20.5	20.9
8H	20.8	21.1	21.2	21.6	22.0	19.7	20.1	20.2	20.5	20.9
12H	20.7	21.0	21.2	21.5	22.0	19.7	20.0	20.1	20.4	20.9
12H 4H	20.7	21.2	21.1	21.5	21.9	19.5	20.0	19.9	20.4	20.8
6H	20.8	21.1	21.2	21.5	22.0	19.6	20.0	20.1	20.4	20.9
8H	20.7	21.0	21.2	21.5	22.0	19.6	20.0	20.1	20.4	20.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.6 / - 1.2					+ 0.8 / - 1.0				
1.5H	+ 2.7 / - 1.1					+ 1.3 / - 0.7				
2.0H	+ 1.9 / - 1.2					+ 1.3 / - 0.9				

CIE Pub.117, 1076 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.3)
 Area: 0.0023468 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2026-01-07

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	85	78	74	84	78	74	70
0.80	93	86	83	92	86	82	91	85	82	78
1.00	97	91	88	97	91	87	95	91	87	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	107	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

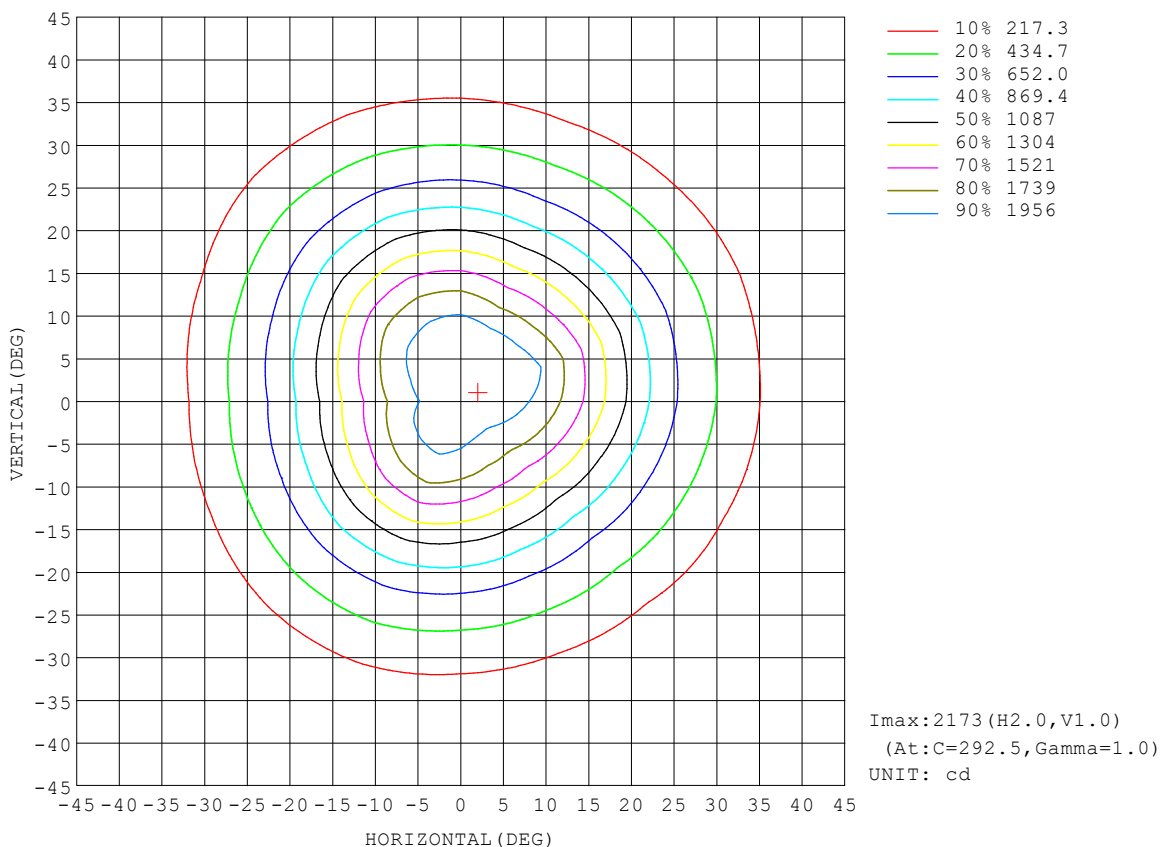
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 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2026-01-07

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
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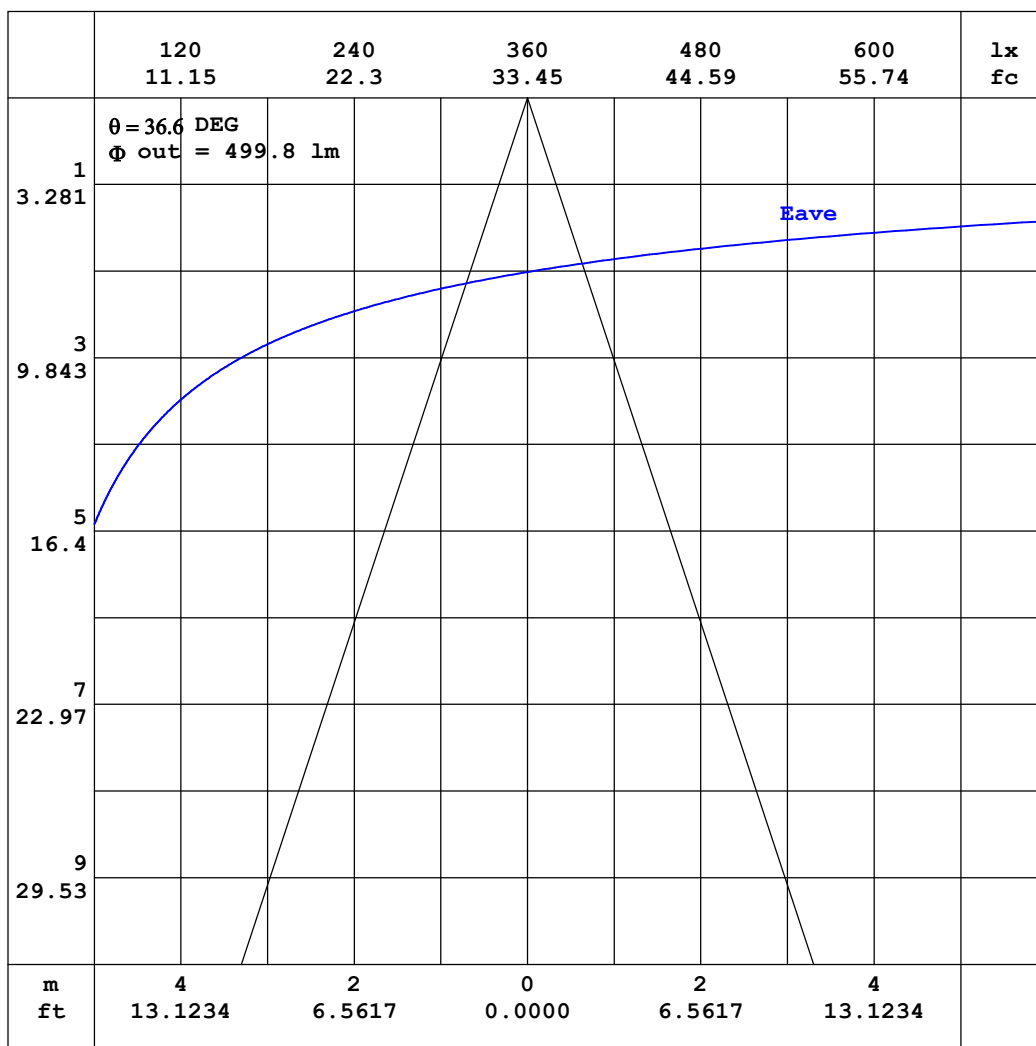
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3℃
Operators:
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γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI CURVES

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



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

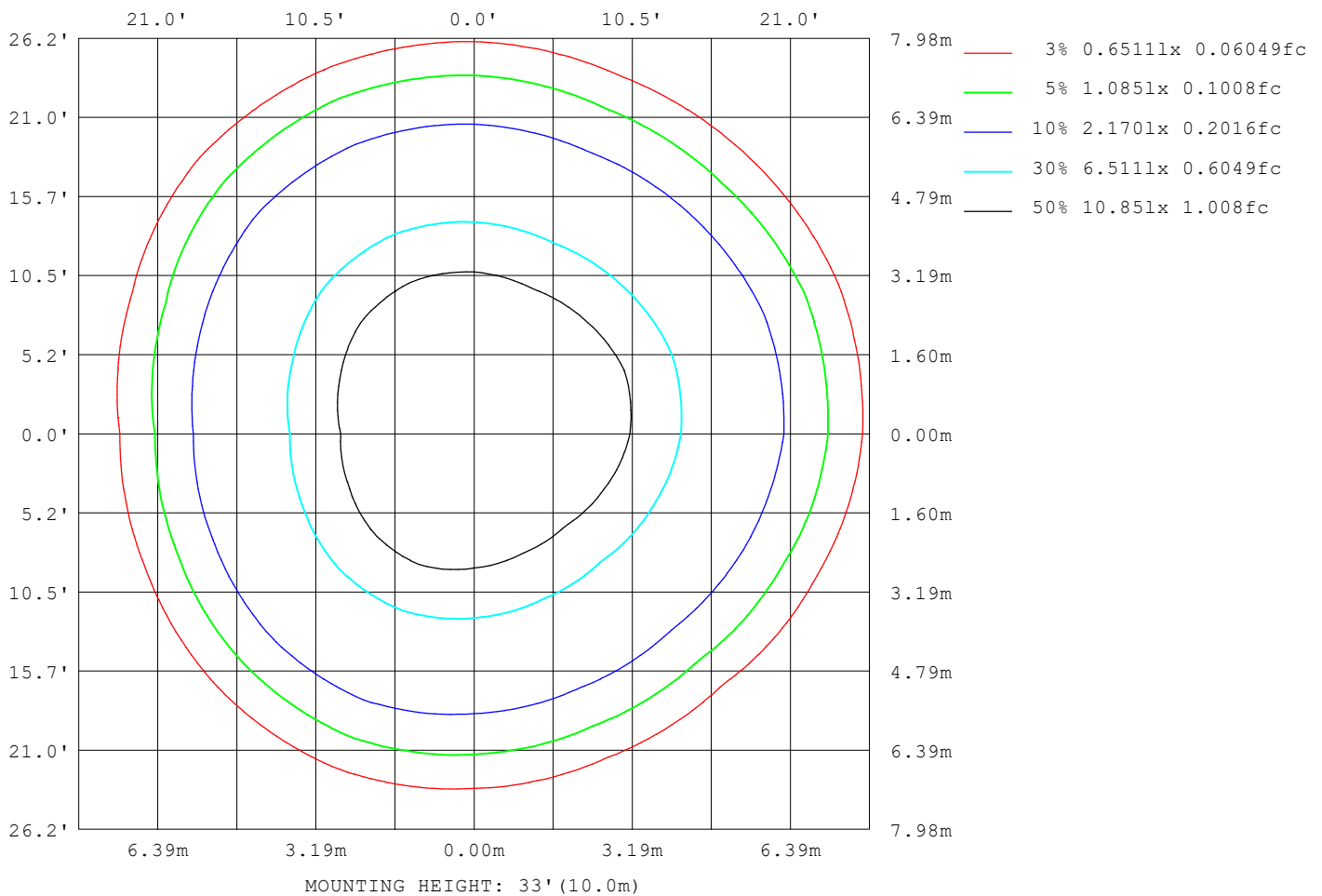
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.3°C
Operators:
Test Date: 2026-01-07

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test: U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.3°C
Operators:
Test Date: 2026-01-07

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

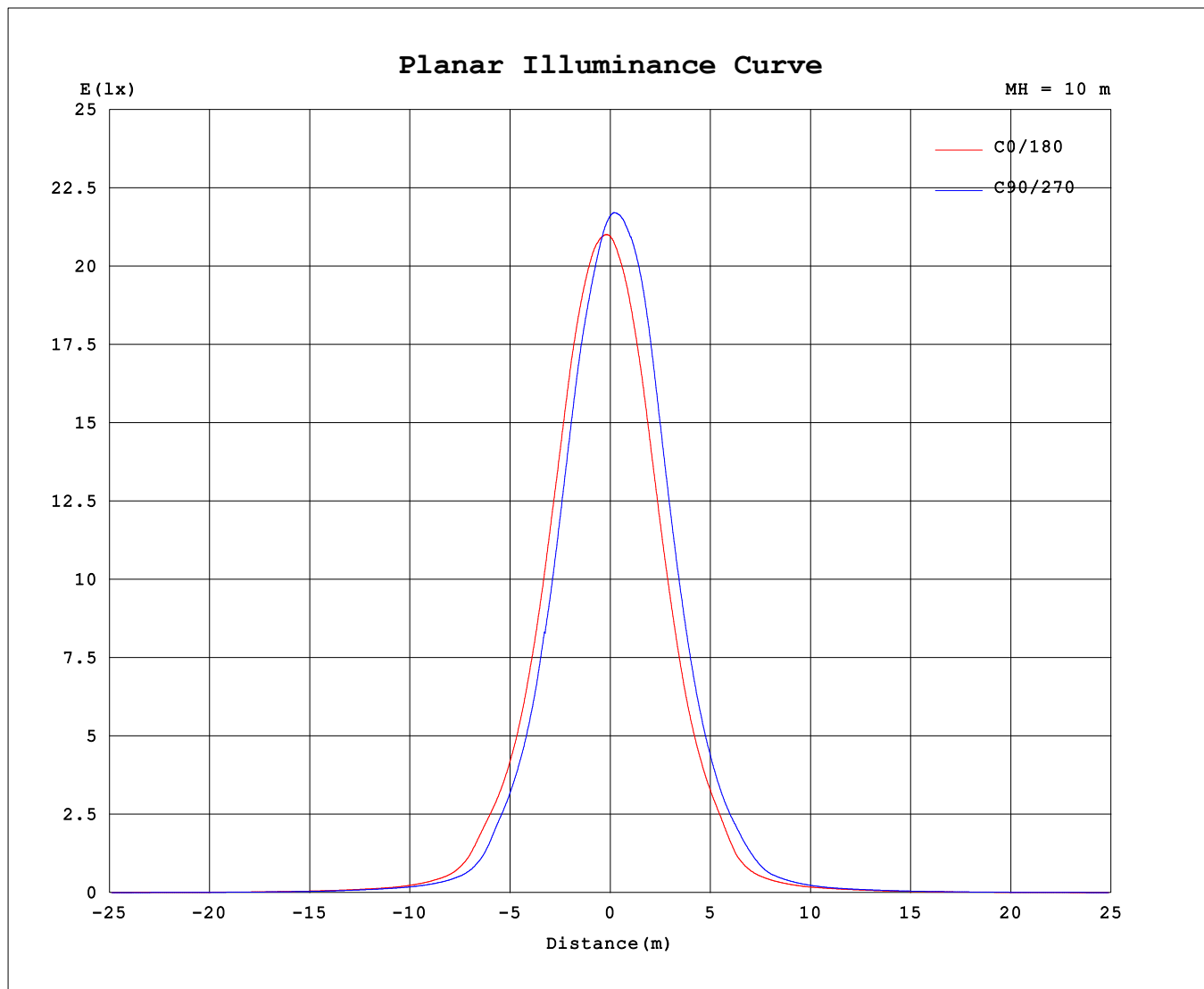
AvgL	cd/m2
L_0~180 (65) av	17201
L_0~180 (75) av	11354
L_0~180 (85) av	1137
L_90~270 (65) av	17168
L_90~270 (75) av	12269
L_90~270 (85) av	6034
L_45 (65) av	17198
L_45 (75) av	12263
L_45 (85) av	1765

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3℃
Operators:
Test Date:2026-01-07

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.087m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2026-01-07

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.1089A P:12.896W PF:0.9861 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1075.79x1 lm		
NAME: ASD-CD-TR-2D15WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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	2096	2097	2104	2129	2160	2171	2166	2164	2096	2097	2104	2129	2160	2171	2166	2164			
5	2067	1995	1930	1935	1985	2045	2036	2016	1951	2014	2097	2137	2142	2137	2141	2155			
10	1860	1728	1603	1604	1678	1769	1740	1679	1640	1759	1899	1960	1974	1904	1916	1975			
15	1471	1313	1179	1171	1230	1325	1311	1245	1220	1350	1518	1587	1559	1476	1505	1562			
20	1042	904	790	780	827	890	898	841	825	935	1078	1129	1101	1041	1074	1116			
25	678	583	506	498	522	561	561	539	532	603	702	739	716	679	700	727			
30	436	373	302	286	310	347	344	317	312	370	438	457	439	419	438	459			
35	225	170	131	125	133	149	144	133	132	166	229	251	240	212	220	244			
40	108	92.1	79.2	76.3	78.7	82.8	82.2	78.2	78.1	91.5	109	114	113	105	110	115			
45	68.4	59.7	53.3	51.9	53.6	56.4	55.7	52.9	52.5	58.8	68.3	71.3	68.7	62.6	64.0	69.4			
50	48.7	44.5	40.4	39.4	40.8	42.9	42.5	40.5	40.3	44.0	47.9	48.8	47.6	44.8	45.7	48.4			
55	35.9	32.2	28.8	27.9	29.1	31.0	30.4	28.4	28.2	31.4	35.5	36.5	35.4	32.9	33.7	35.7			
60	25.1	23.3	21.3	20.8	21.4	22.6	22.3	21.2	21.1	23.0	25.2	25.7	25.4	23.7	24.0	25.0			
65	18.4	17.2	15.8	15.4	16.0	16.8	16.9	16.0	15.9	17.2	18.4	18.8	18.3	17.3	17.5	18.3			
70	12.7	11.9	10.9	10.5	11.0	11.9	11.9	11.3	11.1	12.1	13.0	13.2	12.8	11.9	12.1	12.7			
75	7.38	6.91	6.38	5.94	6.86	7.69	7.66	7.25	6.60	7.47	8.43	8.51	8.20	7.52	7.67	7.63			
80	2.91	2.48	1.74	2.26	3.56	3.61	3.21	2.84	2.60	3.04	3.92	4.46	4.57	4.02	3.88	3.42			
85	0.24	0.25	0.30	0.67	0.83	0.32	0.23	0.29	0.27	0.25	0.55	1.24	1.72	1.03	0.46	0.41			
90	0.13	0.14	0.17	0.18	0.15	0.15	0.12	0.10	0.09	0.08	0.09	0.09	0.11	0.09	0.09	0.10			
95	0.11	0.13	0.12	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.10	0.10	0.10	0.11			
100	0.14	0.14	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.12	0.12	0.12	0.13	0.13	0.13	0.12			
105	0.18	0.18	0.19	0.18	0.19	0.17	0.18	0.18	0.17	0.16	0.15	0.15	0.16	0.16	0.16	0.15			
110	0.21	0.22	0.23	0.24	0.25	0.23	0.22	0.23	0.21	0.20	0.19	0.19	0.20	0.21	0.20	0.19			
115	0.26	0.28	0.30	0.31	0.31	0.29	0.28	0.30	0.27	0.25	0.24	0.24	0.25	0.26	0.25	0.24			
120	0.34	0.36	0.41	0.43	0.42	0.39	0.39	0.41	0.36	0.32	0.30	0.30	0.32	0.32	0.31	0.30			
125	0.47	0.52	0.59	0.63	0.61	0.57	0.57	0.61	0.51	0.44	0.39	0.39	0.42	0.44	0.42	0.40			
130	0.70	0.80	0.94	1.00	0.96	0.90	0.90	0.96	0.79	0.67	0.58	0.57	0.62	0.66	0.64	0.60			
135	1.12	1.30	1.50	1.59	1.54	1.41	1.41	1.54	1.24	1.06	0.90	0.89	0.96	1.06	1.01	0.95			
140	1.79	2.06	2.33	2.40	2.35	2.13	2.12	2.37	1.92	1.68	1.43	1.41	1.53	1.68	1.62	1.55			
145	2.79	3.13	3.37	3.41	3.34	3.02	2.96	3.29	2.73	2.46	2.15	2.14	2.34	2.52	2.47	2.44			
150	3.97	4.34	4.44	4.38	4.26	3.88	3.81	4.30	3.70	3.39	2.96	2.98	3.21	3.46	3.45	3.52			
155	5.12	5.43	5.27	5.11	4.97	4.59	4.47	4.97	4.56	4.22	3.73	3.80	4.07	4.33	4.35	4.58			
160	5.73	5.89	5.54	5.49	5.31	4.90	4.80	5.01	4.70	4.56	4.27	4.40	4.69	4.98	4.87	5.22			
165	5.82	5.83	5.44	5.39	5.19	4.88	4.78	4.85	4.66	4.72	4.68	4.67	4.95	5.14	5.10	5.45			
170	5.36	5.23	5.22	5.07	4.98	4.76	4.54	4.34	4.47	4.41	4.66	4.92	5.07	5.17	5.29	5.12			
175	5.22	5.18	4.96	4.68	4.65	4.55	4.56	4.24	4.34	4.31	4.69	4.87	4.92	4.88	5.09	5.11			
180	4.90	4.76	4.89	4.68	4.73	4.64	4.93	4.70	4.88	4.74	4.88	4.68	4.72	4.66	4.94	4.72			

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