

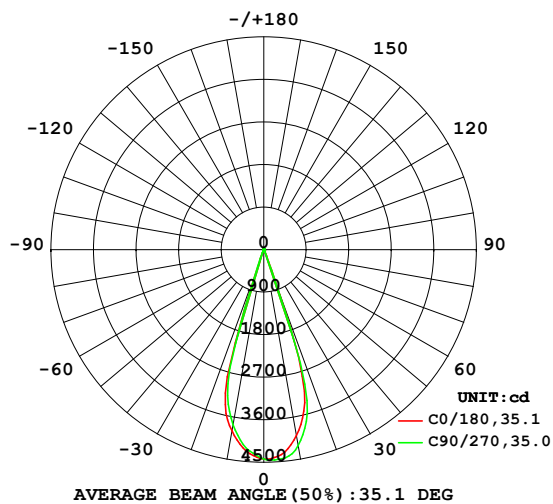
TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

LUMINAIRE PHOTOMETRIC TEST REPORT

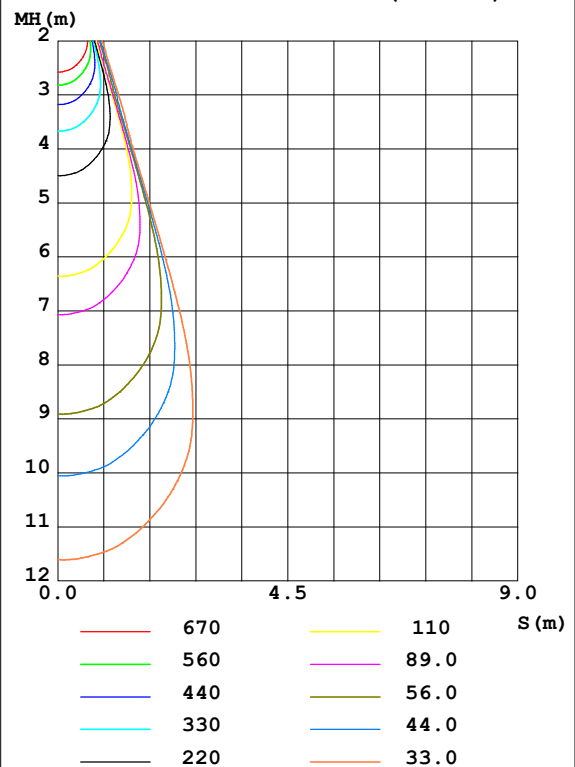
NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.55 lm/W			
MODEL	CMA1516-30G-H-NOU	Imax(cd)	4467	S/MH(C0/180)	0.46
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.46
RATED VOLTAGE(V)	110	TOTAL FLUX(lm)	1292.8	η UP,DN(C0-180)	1.2,52.5
NOMINAL FLUX(lm)	1292.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.2,45.0
LAMPS INSIDE	1	η up(%)	2.5	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	110	η down(%)	97.5	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:LXJ
Test Date:2025-02-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3990	4142	4207	4055	3890	3774	3759	3858	0- 10	400.9	400.9	31,31
20	713.6	765.6	673.0	482.9	334.6	330.7	377.6	583.3	10- 20	761.7	1163	89.9,89.9
30	44.37	45.06	41.06	34.89	32.16	32.65	35.23	40.48	20- 30	64.08	1227	94.9,94.9
40	14.82	14.99	14.15	13.14	12.41	12.41	12.92	14.04	30- 40	14.11	1241	96,96
50	7.523	7.522	7.266	6.988	6.655	6.548	6.851	7.287	40- 50	7.484	1248	96.6,96.6
60	5.207	5.186	5.080	4.935	4.808	4.782	4.949	5.160	50- 60	5.211	1253	97,97
70	3.549	3.621	3.626	3.532	3.338	3.128	3.146	3.356	60- 70	4.246	1258	97.3,97.3
80	1.572	1.632	1.633	1.601	1.423	1.233	1.212	1.345	70- 80	2.563	1260	97.5,97.5
90	0.3009	0.2889	0.2946	0.2900	0.2559	0.2490	0.2547	0.2406	80- 90	0.7236	1261	97.5,97.5
100	0.3063	0.2959	0.3004	0.3009	0.3169	0.3077	0.3135	0.3043	90-100	0.3162	1261	97.6,97.6
110	0.3362	0.3264	0.3299	0.3368	0.3427	0.3311	0.3299	0.3278	100-110	0.3369	1262	97.6,97.6
120	0.3987	0.3965	0.4167	0.4616	0.4701	0.4635	0.4390	0.3989	110-120	0.3518	1262	97.6,97.6
130	3.315	3.141	3.223	3.654	3.476	3.652	3.566	3.122	120-130	1.327	1263	97.7,97.7
140	9.823	9.513	9.601	10.25	10.12	10.44	10.34	9.687	130-140	4.955	1268	98.1,98.1
150	17.41	17.18	17.33	17.93	17.82	18.05	17.96	17.30	140-150	8.599	1277	98.8,98.8
160	20.78	20.68	21.21	21.05	21.29	21.04	20.99	19.68	150-160	9.239	1286	99.5,99.5
170	15.78	16.42	16.51	16.68	16.27	15.72	15.03	14.79	160-170	5.364	1291	99.9,99.9
180	12.10	12.45	11.70	11.82	12.11	12.44	11.70	11.81	170-180	1.316	1293	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

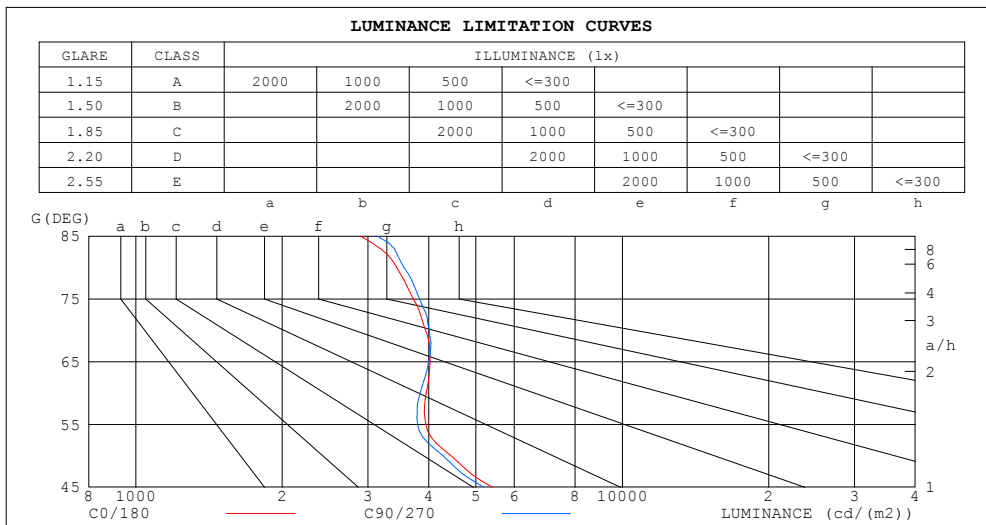
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:LXJ
 Test Date:2025-02-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

LUMINANCE LIMITATION CURVES

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2894	3130
80	3439	3558
75	3717	3827
70	3941	4011
65	4027	4001
60	3956	3843
55	3945	3796
50	4446	4276
45	5412	5196

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:LXJ
Test Date:2025-02-10

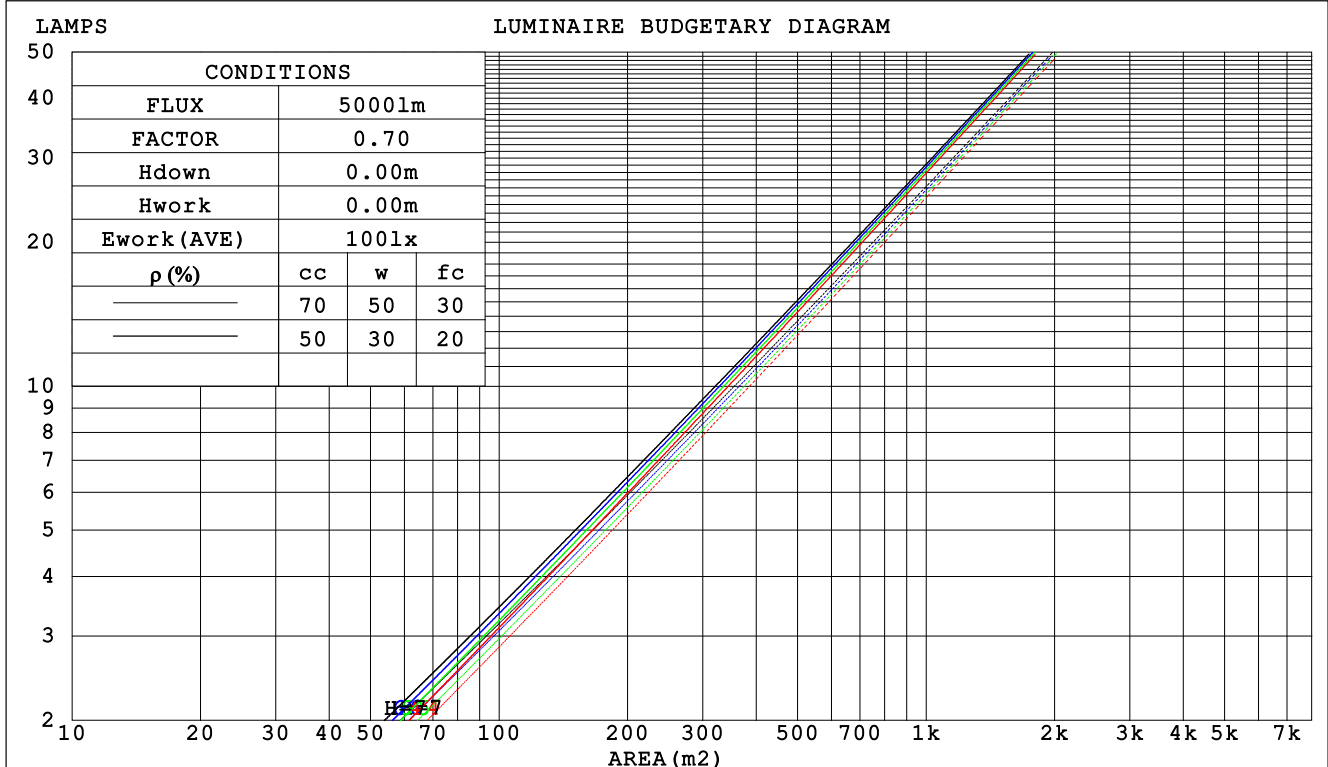
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	Shielding Angle:

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						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.12	1.10	1.09	1.10	1.08	1.07	1.05	1.04	1.03	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.07	1.04	1.02	1.05	1.02	1.00	1.02	.00	.98	.98	.97	.95	.95	.94	.93	.91
3.0	1.03	.99	.96	1.01	.98	.95	.98	.96	.93	.96	.93	.92	.93	.92	.90	.89
4.0	.99	.95	.92	.97	.94	.91	.95	.92	.90	.93	.91	.89	.91	.89	.87	.86
5.0	.95	.91	.88	.94	.90	.88	.92	.89	.87	.91	.88	.86	.89	.87	.85	.84
6.0	.92	.88	.85	.91	.87	.85	.90	.86	.84	.88	.85	.83	.87	.84	.83	.81
7.0	.89	.85	.82	.88	.85	.82	.87	.84	.81	.86	.83	.81	.85	.82	.80	.79
8.0	.87	.83	.80	.86	.82	.80	.85	.81	.79	.84	.81	.79	.83	.80	.78	.77
9.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.77	.81	.78	.76	.75
10.0	.82	.78	.75	.81	.78	.75	.81	.77	.75	.80	.77	.75	.79	.76	.74	.73



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:LXJ
Test Date:2025-02-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

WEC AND CCEC

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	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	.138	.079	.025	.131	.075	.024	.117	.067	.021	.104	.060	.019	.093	.054	.017		
2.0	.127	.070	.021	.121	.067	.021	.109	.061	.019	.099	.055	.017	.089	.050	.016		
3.0	.118	.063	.019	.112	.060	.018	.103	.056	.017	.094	.051	.016	.085	.047	.015		
4.0	.110	.057	.017	.105	.055	.016	.097	.051	.015	.089	.048	.014	.082	.045	.014		
5.0	.103	.052	.015	.099	.051	.015	.092	.048	.014	.085	.045	.013	.079	.042	.013		
6.0	.097	.049	.014	.094	.047	.014	.088	.045	.013	.082	.043	.013	.076	.040	.012		
7.0	.092	.046	.013	.089	.044	.013	.084	.042	.012	.079	.040	.012	.074	.038	.011		
8.0	.088	.043	.012	.085	.042	.012	.080	.040	.011	.076	.038	.011	.071	.037	.011		
9.0	.084	.041	.011	.081	.040	.011	.077	.038	.011	.073	.037	.010	.069	.035	.010		
10.0	.080	.038	.011	.078	.038	.011	.074	.036	.010	.071	.035	.010	.067	.034	.010		

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	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.187	.177	.167	.160	.152	.144	.110	.104	.099	.063	.060	.058	.020	.019	.019	
2.0	.169	.152	.137	.145	.131	.118	.099	.090	.083	.057	.053	.048	.018	.017	.016	
3.0	.154	.132	.115	.132	.114	.100	.091	.079	.070	.052	.046	.041	.017	.015	.013	
4.0	.142	.117	.098	.122	.101	.085	.084	.071	.060	.048	.041	.036	.016	.013	.012	
5.0	.131	.105	.085	.113	.091	.074	.078	.063	.052	.045	.037	.031	.014	.012	.010	
6.0	.122	.095	.075	.105	.082	.066	.072	.057	.046	.042	.034	.028	.014	.011	.009	
7.0	.115	.087	.067	.099	.075	.059	.068	.053	.041	.040	.031	.025	.013	.010	.008	
8.0	.108	.080	.061	.093	.069	.053	.064	.049	.037	.037	.029	.022	.012	.009	.007	
9.0	.102	.074	.055	.088	.064	.048	.061	.045	.034	.036	.027	.020	.012	.009	.007	
10.0	.097	.070	.051	.084	.060	.044	.058	.042	.032	.034	.025	.019	.011	.008	.006	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:LXJ
Test Date:2025-02-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

UGR(Unified Glare Rating) Table

NAME: TLO020-41					TYPE:3000K CRI90 35.1D			WEIGHT:1			
SPEC.:ES/LD020H-CU05040-M26D					DIM.:			SERIAL No.:			
MFR.: ENCORE					SUR.:54			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	2H	5.6	6.2	5.8	6.4	6.6	5.4	6.0	5.6	6.2	6.4
	3H	6.9	7.5	7.2	7.7	8.0	6.9	7.4	7.1	7.7	7.9
	4H	7.5	8.1	7.8	8.3	8.6	7.5	8.0	7.8	8.3	8.5
	6H	8.0	8.5	8.3	8.8	9.1	8.0	8.5	8.3	8.8	9.1
	8H	8.1	8.6	8.5	8.9	9.2	8.1	8.6	8.5	8.9	9.2
	12H	8.2	8.7	8.6	9.0	9.3	8.2	8.7	8.6	9.0	9.3
4H	2H	6.1	6.6	6.4	6.9	7.1	6.0	6.5	6.2	6.8	7.0
	3H	7.7	8.2	8.0	8.5	8.8	7.6	8.1	8.0	8.4	8.7
	4H	8.4	8.9	8.8	9.2	9.5	8.4	8.8	8.8	9.2	9.5
	6H	9.0	9.4	9.4	9.7	10.1	9.0	9.4	9.4	9.8	10.1
	8H	9.2	9.5	9.6	9.9	10.3	9.2	9.6	9.6	10.0	10.4
	12H	9.3	9.6	9.7	10.0	10.5	9.3	9.7	9.8	10.1	10.5
8H	4H	8.7	9.0	9.1	9.4	9.8	8.6	9.0	9.1	9.4	9.8
	6H	9.4	9.7	9.8	10.1	10.6	9.4	9.7	9.9	10.1	10.6
	8H	9.7	9.9	10.1	10.4	10.9	9.7	10.0	10.2	10.4	10.9
	12H	9.8	10.1	10.4	10.6	11.1	9.9	10.1	10.4	10.6	11.1
12H	4H	8.7	9.0	9.1	9.4	9.9	8.7	9.0	9.1	9.4	9.8
	6H	9.4	9.7	9.9	10.2	10.6	9.4	9.7	9.9	10.2	10.7
	8H	9.7	10.0	10.2	10.5	11.0	9.8	10.0	10.3	10.5	11.0
Variations with the observer position at spacings:											
S = 1.0H		+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H		+ 0.5 / - 0.4					+ 0.4 / - 0.4				
2.0H		+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 1293 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:LXJ
Test Date:2025-02-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

UTILIZATION FACTORS TABLE

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	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) x RCR = 5									
k = 0.60	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	95	90	87	94	90	87	83
1.00	100	95	91	99	94	91	97	94	90	86
1.25	104	99	96	102	98	95	100	97	94	90
1.50	106	102	99	105	101	98	102	99	97	92
2.00	109	105	102	107	103	101	104	101	99	93
2.50	110	106	104	108	105	103	105	102	100	94
3.00	112	108	106	110	107	104	106	104	102	95
4.00	114	111	109	111	109	107	107	106	104	96
5.00	115	113	111	112	111	109	108	107	106	97
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: 28DEG
Operators: LXJ
Test Date: 2025-02-10

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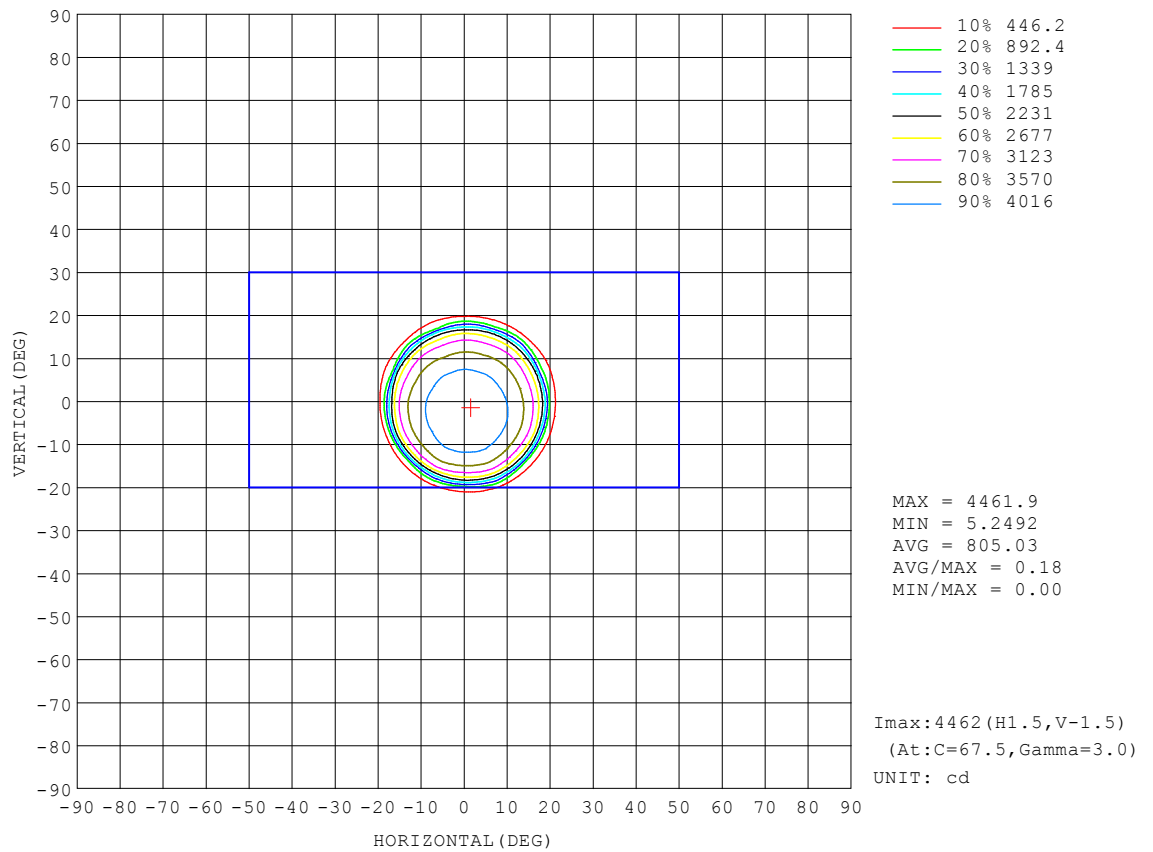
Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

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TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

ISOCANDELA DIAGRAM

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	Shielding Angle:



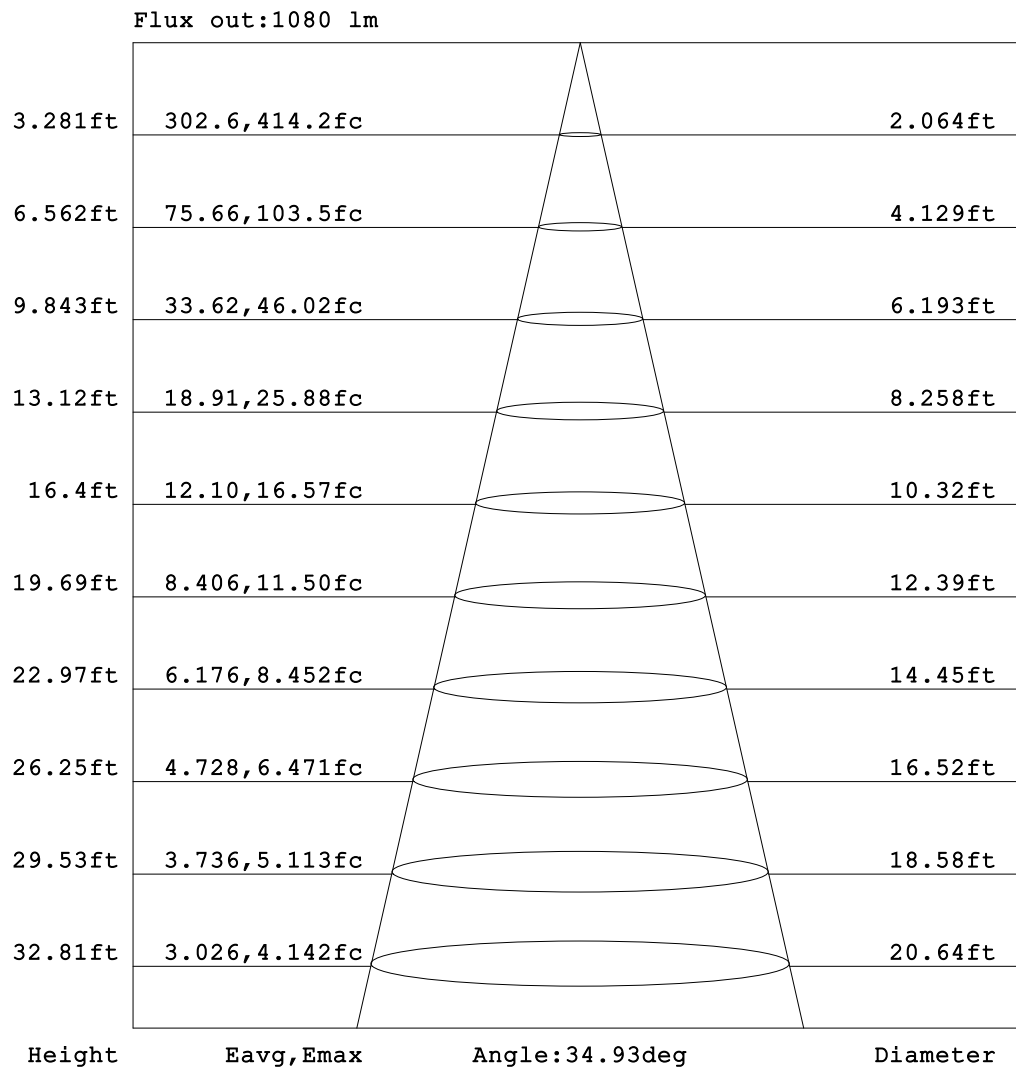
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:LXJ
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

AAI Figure

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	Shielding Angle:



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

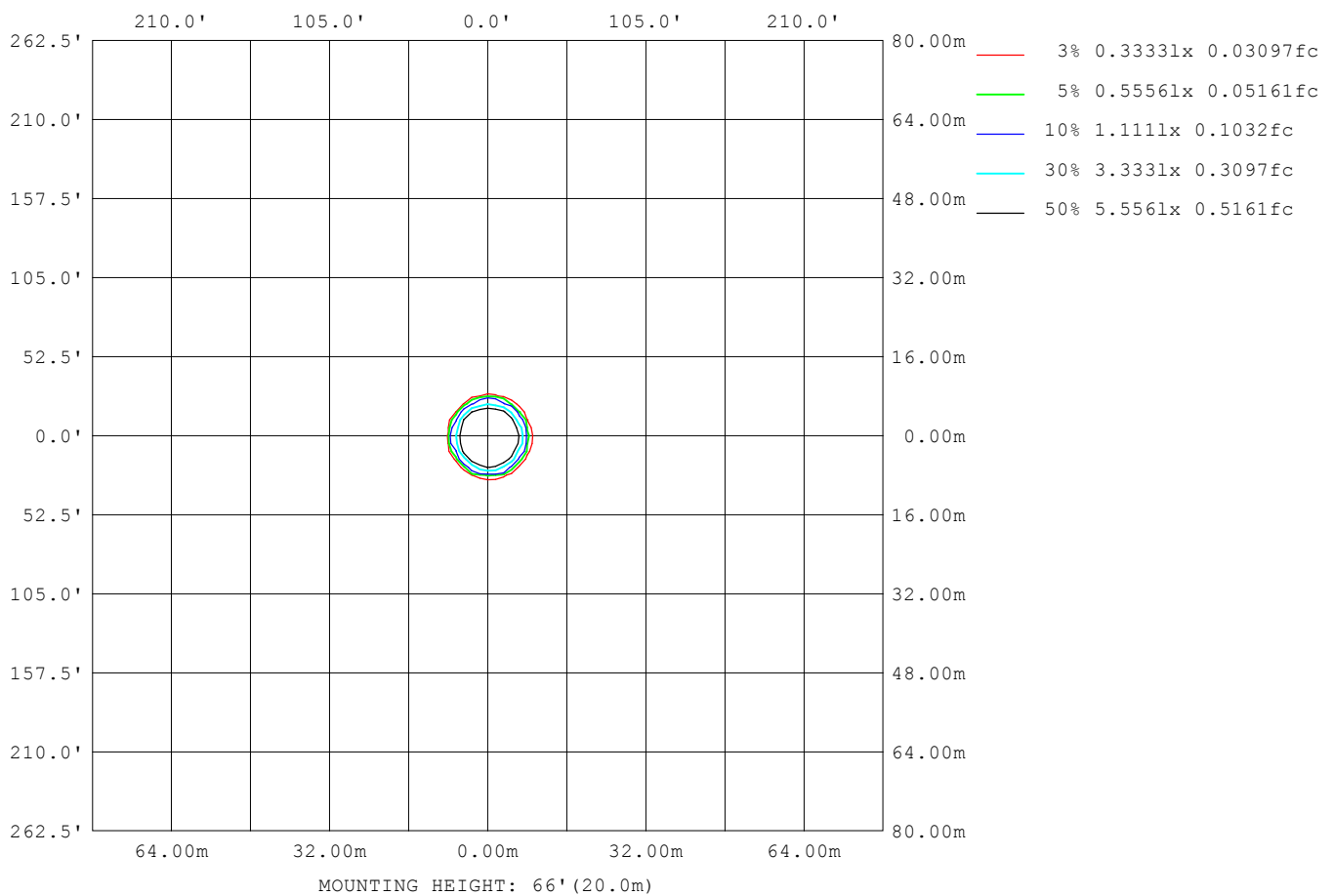
C Range: 0 - 360DEG
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

ISOLUX DIAGRAM

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
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Test Distance:5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

LED Avg.L Report

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	Shielding Angle:

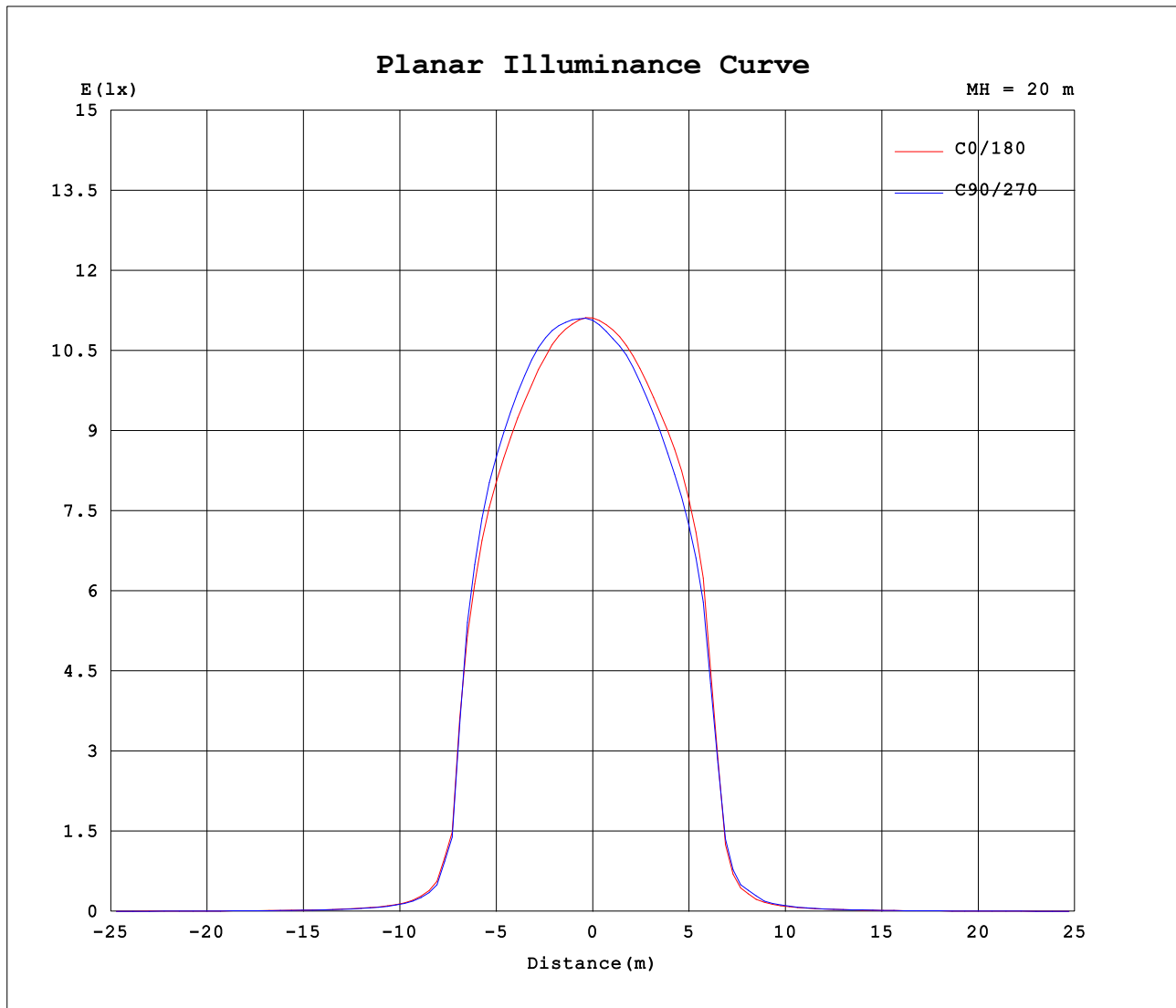
AvgL	cd/m2
L_0~180 (65) av	3883
L_0~180 (75) av	3589
L_0~180 (85) av	2391
L_90~270 (65) av	3857
L_90~270 (75) av	3469
L_90~270 (85) av	2352
L_45 (65) av	3867
L_45 (75) av	3518
L_45 (85) av	2346

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:LXJ
 Test Date:2025-02-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28DEG
Operators: LXJ
Test Date: 2025-02-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

TLO020-41 CMA1516-30G-H-NOU 3000K CRI90 40D(Actual 35.1D) NA

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO020-41	TYPE:3000K CRI90 35.1D	WEIGHT:1
SPEC.:ES/LD020H-CU05040-M26D	DIM.:	SERIAL No.:
MFR.: ENCORE	SUR.:54	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	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431			
5	4348	4393	4418	4455	4441	4424	4373	4330	4275	4225	4205	4205	4218	4216	4254	4289			
10	3990	4092	4142	4237	4207	4175	4055	3978	3890	3809	3774	3728	3759	3770	3858	3901			
15	3351	3477	3525	3638	3568	3558	3374	3276	3141	2976	2949	2834	2941	2977	3151	3223			
20	714	837	766	1251	673	628	483	373	335	407	331	405	378	470	583	761			
25	114	140	117	135	104	97.1	80.2	76.9	72.6	74.0	74.4	73.0	82.1	86.2	101	106			
30	44.4	47.0	45.1	45.4	41.1	39.0	34.9	33.8	32.2	31.4	32.7	32.7	35.2	36.6	40.5	41.9			
35	23.8	24.9	24.1	24.1	22.3	21.6	20.3	19.9	19.1	18.7	19.2	19.2	20.3	20.7	22.4	22.9			
40	14.8	15.5	15.0	15.0	14.2	13.9	13.1	12.9	12.4	12.1	12.4	12.4	12.9	13.2	14.0	14.3			
45	10.1	10.4	10.1	10.1	9.71	9.56	9.20	9.05	8.71	8.51	8.62	8.66	8.99	9.18	9.65	9.84			
50	7.52	7.66	7.52	7.50	7.27	7.19	6.99	6.86	6.65	6.51	6.55	6.63	6.85	7.02	7.29	7.38			
55	5.96	6.04	5.93	5.93	5.75	5.72	5.60	5.55	5.45	5.39	5.43	5.52	5.66	5.76	5.91	5.92			
60	5.21	5.24	5.19	5.20	5.08	5.04	4.93	4.87	4.81	4.80	4.78	4.84	4.95	5.03	5.16	5.17			
65	4.48	4.56	4.51	4.58	4.47	4.49	4.35	4.27	4.19	4.15	4.05	4.05	4.14	4.20	4.35	4.38			
70	3.55	3.69	3.62	3.73	3.63	3.68	3.53	3.48	3.34	3.26	3.13	3.05	3.15	3.20	3.36	3.40			
75	2.53	2.67	2.61	2.70	2.62	2.69	2.57	2.54	2.37	2.29	2.14	2.05	2.12	2.17	2.31	2.36			
80	1.57	1.67	1.63	1.68	1.63	1.71	1.60	1.57	1.42	1.34	1.23	1.16	1.21	1.25	1.34	1.40			
85	0.66	0.75	0.72	0.78	0.72	0.75	0.63	0.59	0.44	0.34	0.34	0.31	0.36	0.38	0.47	0.50			
90	0.30	0.30	0.29	0.29	0.29	0.30	0.29	0.32	0.26	0.23	0.25	0.23	0.25	0.24	0.24	0.22			
95	0.30	0.31	0.29	0.31	0.30	0.31	0.30	0.31	0.29	0.27	0.28	0.27	0.29	0.26	0.28	0.26			
100	0.31	0.32	0.30	0.32	0.30	0.32	0.30	0.32	0.32	0.29	0.31	0.29	0.31	0.29	0.30	0.29			
105	0.32	0.33	0.31	0.33	0.31	0.33	0.31	0.33	0.33	0.31	0.32	0.30	0.33	0.30	0.32	0.30			
110	0.34	0.34	0.33	0.34	0.33	0.34	0.34	0.34	0.34	0.32	0.33	0.31	0.33	0.31	0.33	0.31			
115	0.34	0.35	0.35	0.35	0.34	0.36	0.35	0.37	0.36	0.33	0.35	0.33	0.35	0.33	0.33	0.33			
120	0.40	0.41	0.40	0.42	0.42	0.45	0.46	0.49	0.47	0.46	0.46	0.45	0.44	0.41	0.40	0.37			
125	1.22	1.13	1.15	1.09	1.22	1.26	1.45	1.54	1.39	1.48	1.46	1.53	1.39	1.31	1.13	1.06			
130	3.32	3.10	3.14	3.01	3.22	3.28	3.65	3.76	3.48	3.70	3.65	3.84	3.57	3.46	3.12	3.03			
135	6.28	6.03	6.03	5.88	6.11	6.24	6.67	6.86	6.51	6.77	6.78	6.95	6.69	6.55	6.11	5.93			
140	9.82	9.56	9.51	9.38	9.60	9.80	10.2	10.5	10.1	10.4	10.4	10.6	10.3	10.2	9.69	9.43			
145	13.7	13.4	13.4	13.2	13.5	13.7	14.1	14.4	14.0	14.3	14.3	14.5	14.2	14.0	13.6	13.3			
150	17.4	17.2	17.2	17.1	17.3	17.5	17.9	18.1	17.8	18.1	18.1	18.3	18.0	17.8	17.3	17.1			
155	20.4	20.2	20.1	20.2	20.5	20.6	20.8	21.0	20.9	21.0	20.9	21.1	20.8	20.5	19.8	19.5			
160	20.8	20.7	20.7	21.0	21.2	21.3	21.0	21.2	21.3	21.1	21.0	21.2	21.0	20.2	19.7	19.7			
165	18.5	19.0	19.1	19.4	19.2	19.5	19.3	19.3	19.1	19.0	18.9	18.7	18.5	18.0	17.8	17.5			
170	15.8	16.2	16.4	16.6	16.5	16.6	16.7	16.5	16.3	16.1	15.7	15.2	15.0	14.8	14.8	14.6			
175	12.7	12.8	13.1	13.2	13.0	13.1	13.3	13.1	13.0	13.0	12.8	12.0	11.7	11.7	11.7	11.3			
180	12.1	12.1	12.4	11.9	11.7	11.5	11.8	11.1	12.1	12.1	12.4	11.9	11.7	11.5	11.8	11.1			

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γ Range: 0 - 180DEG
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