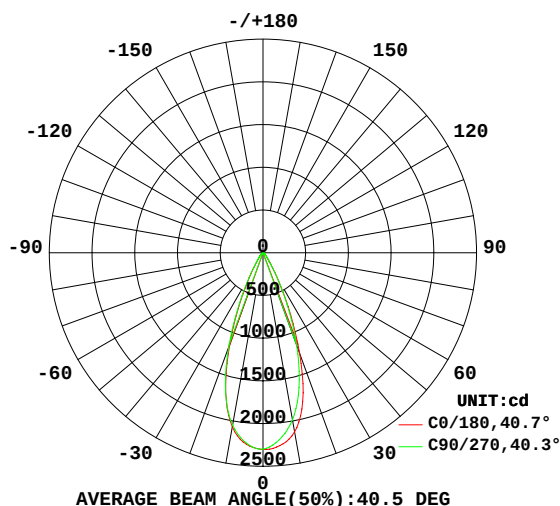


LUMINAIRE PHOTOMETRIC TEST REPORT

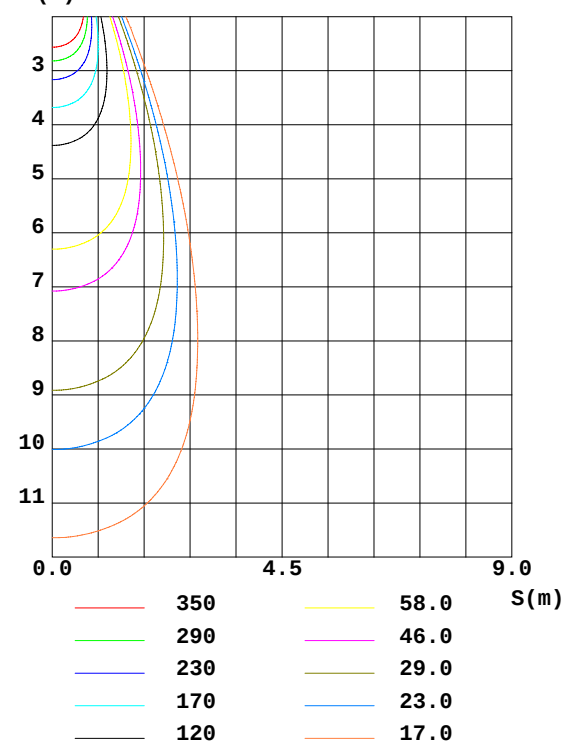
Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm					
NAME: CL-SPOT04 3000K-90RA			TYPE:		WEIGHT:
DIM.:			SPEC.:		SERIAL No.:
MFR.:			SUR.:		PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 88.83 lm/W
MODEL		I _{max} (cd)	2303	S/MH(C0/180)	0.64	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.63	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1136.3	η UP, DN(C0-180)	0.2, 50.3	
NOMINAL FLUX(lm)	1136.31	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 49.3	
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	24	η down(%)	99.6	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:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [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	2129	2013	1986	2012	2070	2054	2048	2064	0- 10	207.4	207.4	18.3,18.3
20	1255	1195	1154	1148	1136	1148	1176	1195	10- 20	458.3	665.7	58.6,58.6
30	319.3	320.1	316.4	300.1	287.0	286.9	295.6	297.8	20- 30	304.5	970.2	85.4,85.4
40	78.43	79.29	81.34	73.43	72.71	76.11	77.10	75.87	30- 40	93.82	1064	93.6,93.6
50	33.99	35.88	35.04	33.92	31.59	34.57	35.00	34.85	40- 50	39.92	1104	97.2,97.2
60	12.27	14.10	13.92	13.06	11.41	13.23	13.42	13.09	50- 60	19.65	1124	98.9,98.9
70	3.089	3.132	3.062	2.896	2.508	2.758	2.932	3.022	60- 70	7.548	1131	99.5,99.5
80	0	0	0	0	0	0	0	0	70- 80	0.7376	1132	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1132	99.6,99.6
100	0	0	0	0	0	0	0	0	90-100	0	1132	99.6,99.6
110	0	0	0	0	0	0	0	0	100-110	0	1132	99.6,99.6
120	0	0	0	0	0.0520	0.0427	0.0427	0.0472	110-120	0.0037	1132	99.6,99.6
130	0.1460	0.1460	0.1366	0.1459	0.2364	0.2411	0.2271	0.2176	120-130	0.0717	1132	99.6,99.6
140	0.7775	0.7869	0.7774	0.8105	0.8885	0.8743	0.8460	0.8224	130-140	0.3439	1132	99.7,99.7
150	2.056	2.103	2.122	2.146	2.210	2.159	2.092	2.083	140-150	0.8781	1133	99.7,99.7
160	3.642	3.698	3.755	3.741	3.777	3.706	3.669	3.626	150-160	1.327	1135	99.8,99.8
170	5.114	5.124	5.147	5.114	5.221	5.150	5.141	5.098	160-170	1.234	1136	100,100
180	6.017	5.951	5.923	5.927	6.022	5.989	5.932	5.941	170-180	0.5257	1136	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

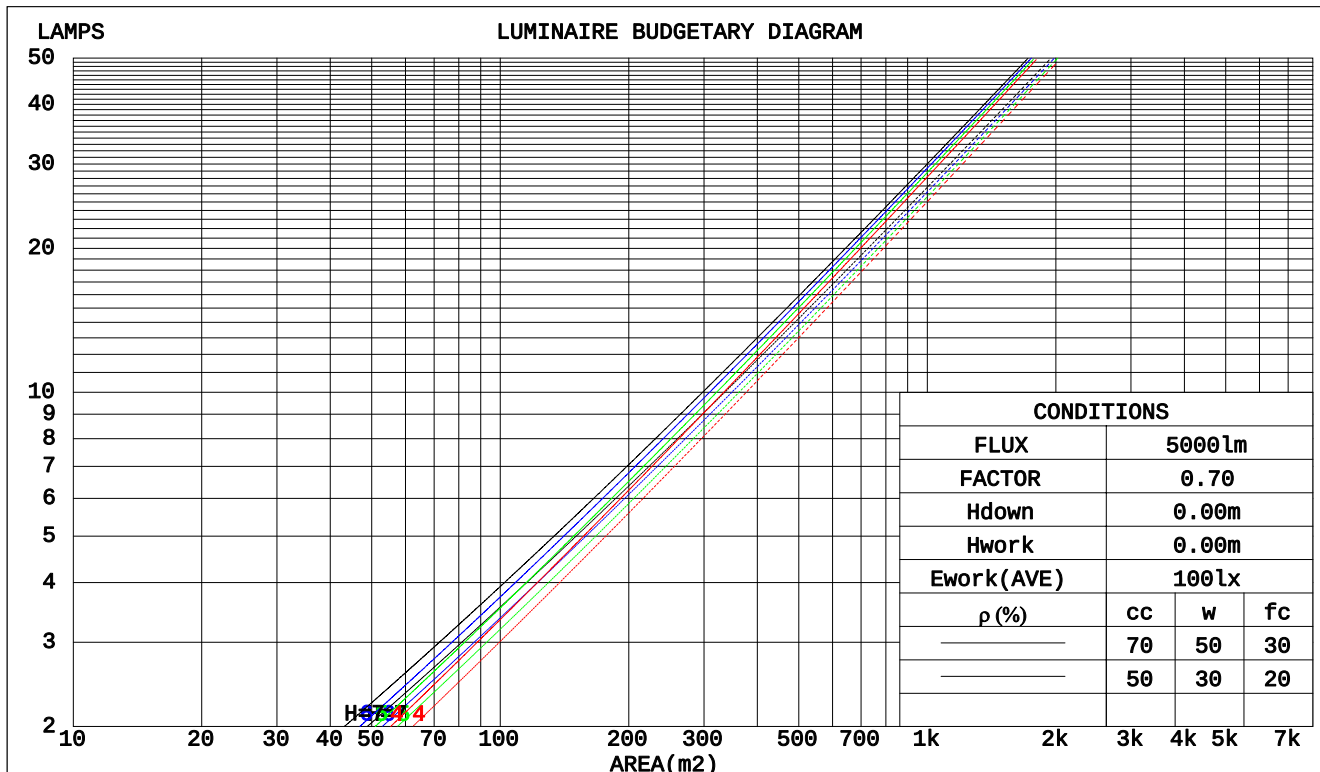
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm		
NAME: SPOT04-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.12	1.09	1.07	1.09	1.07	1.06	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.99	.97	.99	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.98	.93	.90	.95	.92	.89	.92	.90	.87	.90	.88	.86	.85
4.0	.94	.89	.85	.92	.88	.84	.90	.86	.83	.88	.85	.82	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.84	.81	.78	.83	.80	.77	.76
6.0	.84	.79	.76	.84	.79	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.72
7.0	.81	.75	.72	.80	.75	.71	.79	.74	.71	.77	.74	.71	.76	.73	.70	.69
8.0	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.73	.70	.67	.66
9.0	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.71	.67	.64	.63
10.0	.71	.66	.62	.70	.65	.62	.69	.65	.62	.69	.65	.62	.68	.64	.62	.60



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm									
NAME: SPOT04-3000K-90RA-36D					TYPE:			WEIGHT:	
DIM.:					SPEC.:			SERIAL No.:	
MFR.:					SUR.:			PROTECTION 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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.161	.092	.029	.154	.088	.028	.142	.081	.026	.130	.075	.024	.119	.069	.022		
2.0	.153	.084	.026	.147	.081	.025	.136	.076	.024	.127	.071	.022	.117	.066	.021		
3.0	.144	.077	.023	.139	.075	.022	.130	.071	.021	.122	.067	.021	.114	.063	.020		
4.0	.137	.071	.021	.132	.069	.020	.125	.066	.020	.118	.063	.019	.111	.060	.018		
5.0	.130	.066	.019	.126	.065	.019	.119	.062	.018	.113	.060	.018	.107	.057	.017		
6.0	.123	.062	.018	.120	.061	.017	.114	.059	.017	.109	.057	.017	.104	.055	.016		
7.0	.117	.058	.016	.115	.057	.016	.110	.055	.016	.105	.054	.016	.100	.052	.015		
8.0	.112	.055	.015	.110	.054	.015	.105	.053	.015	.101	.051	.015	.097	.050	.014		
9.0	.107	.052	.015	.105	.051	.014	.101	.050	.014	.097	.049	.014	.094	.048	.014		
10.0	.103	.049	.014	.101	.049	.014	.098	.048	.013	.094	.047	.013	.091	.046	.013		

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.173	.160	.149	.148	.138	.128	.101	.095	.089	.058	.055	.052	.019	.018	.017	
2.0	.157	.136	.118	.134	.117	.102	.092	.081	.071	.053	.047	.042	.017	.015	.014	
3.0	.143	.116	.095	.123	.100	.082	.084	.070	.058	.049	.041	.034	.016	.013	.011	
4.0	.132	.101	.078	.113	.088	.068	.078	.061	.048	.045	.036	.028	.015	.012	.009	
5.0	.123	.090	.065	.105	.078	.057	.073	.054	.040	.042	.032	.024	.014	.010	.008	
6.0	.115	.080	.055	.099	.069	.048	.068	.049	.034	.039	.029	.020	.013	.009	.007	
7.0	.108	.072	.047	.093	.063	.041	.064	.044	.029	.037	.026	.017	.012	.008	.006	
8.0	.102	.066	.041	.088	.057	.036	.061	.040	.025	.035	.024	.015	.011	.008	.005	
9.0	.096	.060	.036	.083	.052	.031	.058	.037	.022	.034	.022	.013	.011	.007	.004	
10.0	.092	.056	.032	.079	.049	.028	.055	.034	.020	.032	.020	.012	.010	.007	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm											
NAME: SPOT04-3000K-90RA-36D					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.:					SUR.:			PROTECTION 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	4.6	5.4	4.8	5.6	5.7	4.6	5.5	4.9	5.6	5.8	
3H	4.5	5.3	4.8	5.5	5.7	4.6	5.4	4.9	5.6	5.8	
4H	4.5	5.2	4.7	5.4	5.6	4.5	5.3	4.8	5.5	5.7	
6H	4.4	5.0	4.7	5.3	5.5	4.4	5.1	4.7	5.4	5.6	
8H	4.3	5.0	4.6	5.2	5.5	4.4	5.1	4.7	5.3	5.6	
12H	4.3	4.9	4.6	5.2	5.5	4.4	5.0	4.7	5.3	5.5	
4H 2H	4.5	5.2	4.8	5.5	5.7	4.6	5.3	4.9	5.5	5.7	
3H	4.5	5.1	4.8	5.4	5.7	4.6	5.2	4.9	5.5	5.7	
4H	4.4	5.0	4.8	5.3	5.6	4.5	5.0	4.8	5.3	5.7	
6H	4.3	4.8	4.7	5.2	5.5	4.4	4.9	4.8	5.2	5.6	
8H	4.3	4.7	4.7	5.1	5.5	4.3	4.8	4.7	5.1	5.5	
12H	4.2	4.6	4.6	5.0	5.4	4.3	4.7	4.7	5.1	5.5	
8H 4H	4.3	4.7	4.7	5.1	5.5	4.3	4.8	4.7	5.2	5.5	
6H	4.2	4.5	4.6	4.9	5.4	4.2	4.6	4.7	5.0	5.4	
8H	4.1	4.4	4.6	4.9	5.3	4.2	4.5	4.6	4.9	5.4	
12H	4.0	4.3	4.5	4.8	5.3	4.1	4.4	4.6	4.8	5.3	
12H 4H	4.2	4.6	4.6	5.0	5.4	4.3	4.7	4.7	5.1	5.5	
6H	4.1	4.4	4.6	4.9	5.3	4.2	4.5	4.6	4.9	5.4	
8H	4.0	4.3	4.5	4.8	5.3	4.1	4.4	4.6	4.8	5.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 1.9 / - 3.4					+ 1.8 / - 3.1					
1.5H	+ 2.6 / - 2.1					+ 2.5 / - 2.0					
2.0H	+ 3.1 / - 3.1					+ 2.9 / - 3.0					

CIE Pub.117 Corrected 1136 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.4)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm		
NAME: SPOT04-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

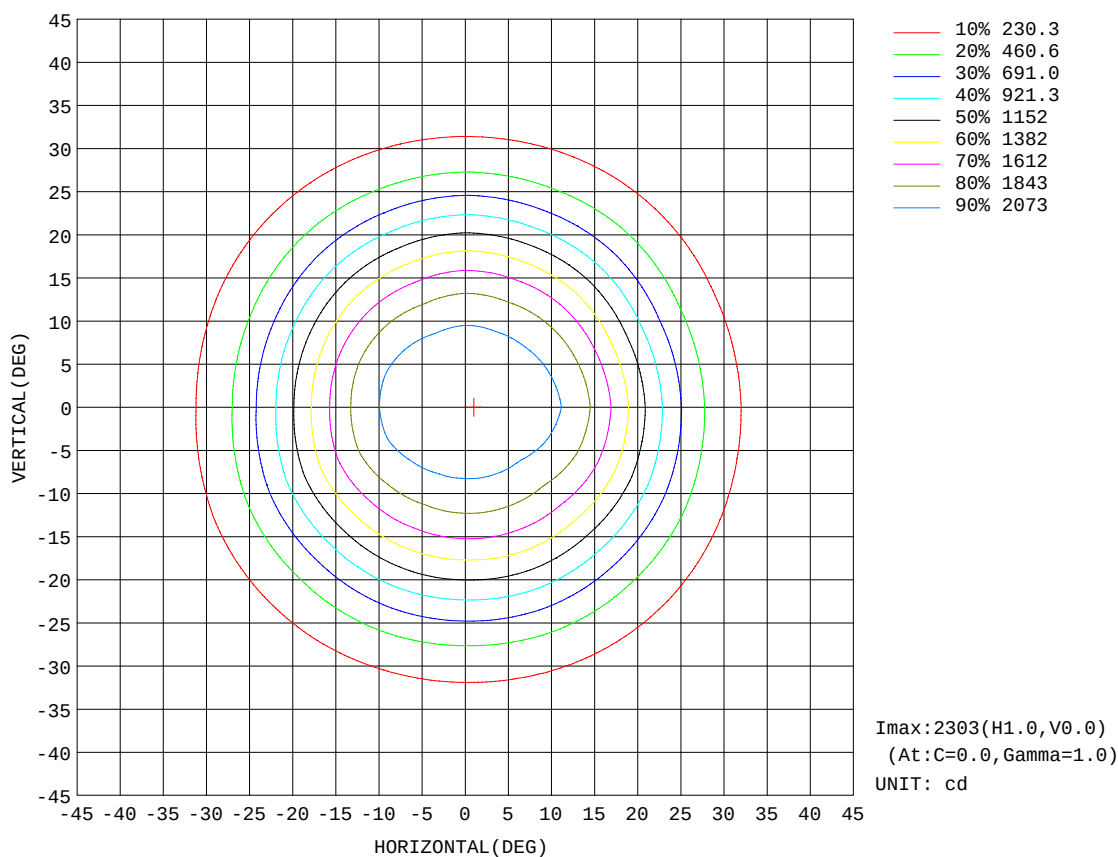
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	98	102	99	96	92
2.00	109	105	101	107	103	101	104	101	99	94
2.50	110	107	104	109	105	103	105	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	108	108	106	105	98
5.00	115	113	111	113	111	109	109	107	106	99
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:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm		
NAME: SPOT04-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



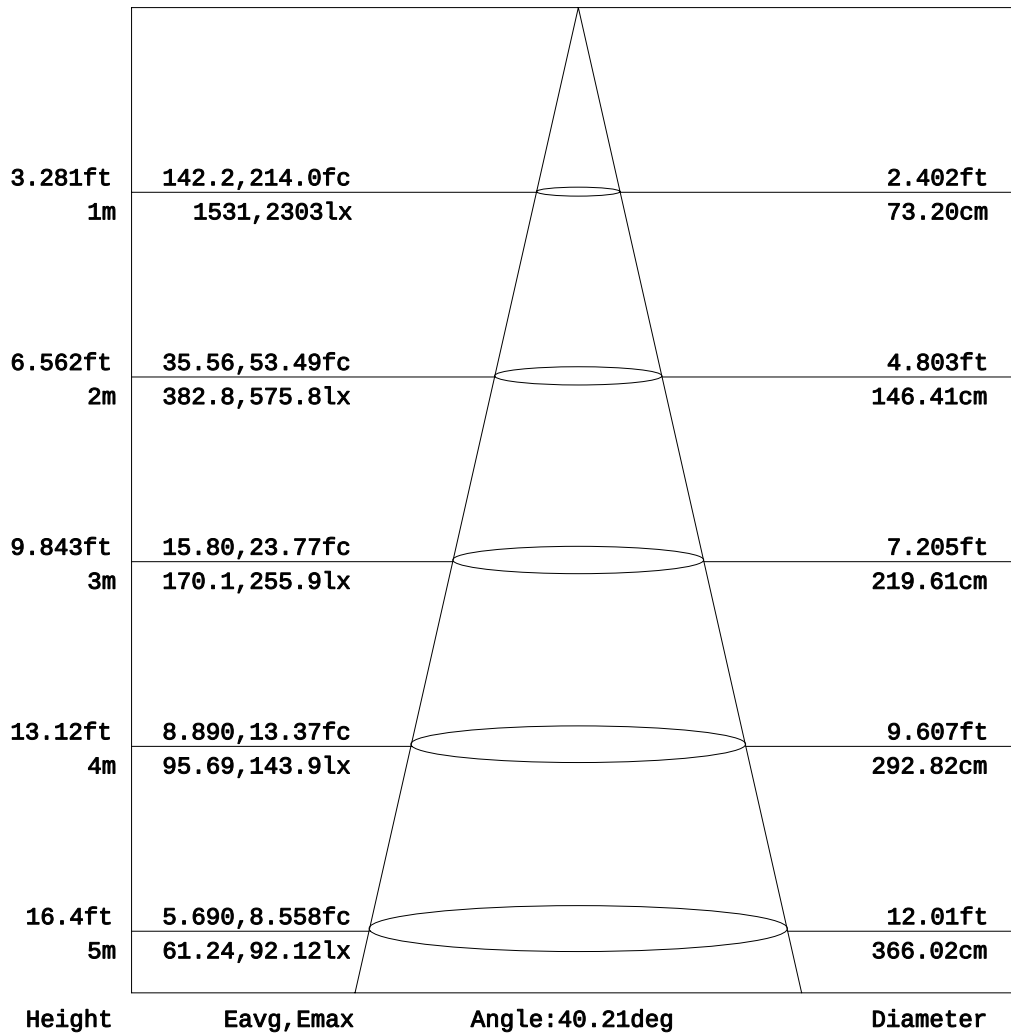
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm		
NAME: SPOT04-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:708.7 lm



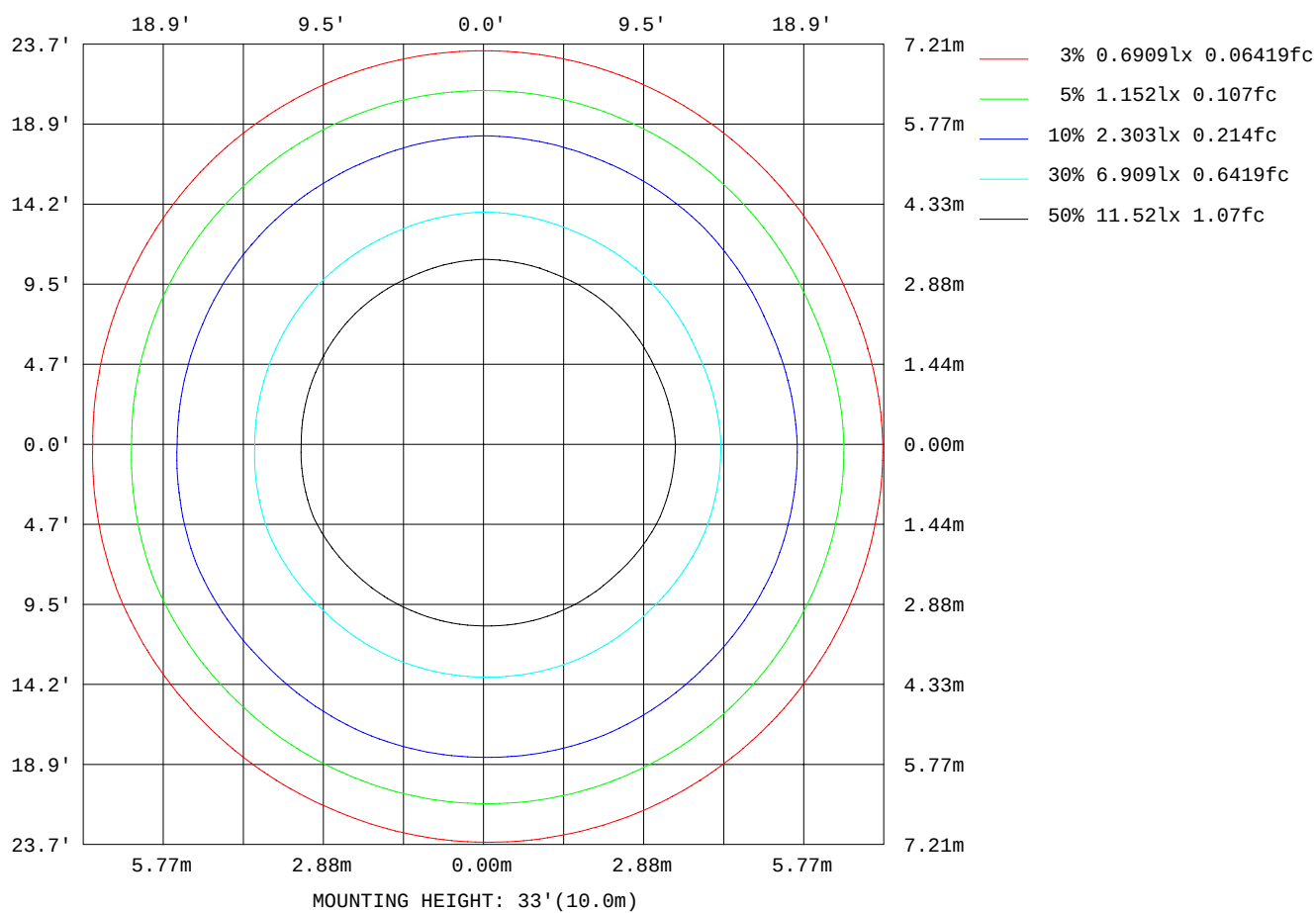
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm		
NAME: SPOT04-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm		
NAME: SPOT04-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1136.31	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	365	374	382	390	397	401	400	398	395	392	390	388	383	376	368	359	349	340	334
60	245	252	260	270	278	283	283	281	280	278	277	275	271	265	256	246	237	231	228
65	172	179	184	188	192	194	194	194	192	191	190	188	185	181	177	173	167	160	154
70	90	93	94	94	92	92	93	93	91	90	90	91	89	86	85	87	86	79	73
75	9	10	11	11	11	10	8	8	7	7	7	6	6	6	7	9	9	6	3
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	401	200	---	500
Category 2	65 to 90	194	200	---	500
Category 3	75 to 90	11	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm		
NAME: SPOT04-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1136.31	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	365	374	382	390	397	401	400	398	395	392	390	388	383	376	368	359	349	340	334
60	245	252	260	270	278	283	283	281	280	278	277	275	271	265	256	246	237	231	228
65	172	179	184	188	192	194	194	194	192	191	190	188	185	181	177	173	167	160	154
70	90	93	94	94	92	92	93	93	91	90	90	91	89	86	85	87	86	79	73
75	9	10	11	11	11	10	8	8	7	7	7	6	6	6	7	9	9	6	3
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	401	1000	1500	200	500
65 to 90	194	1000	1500	200	500

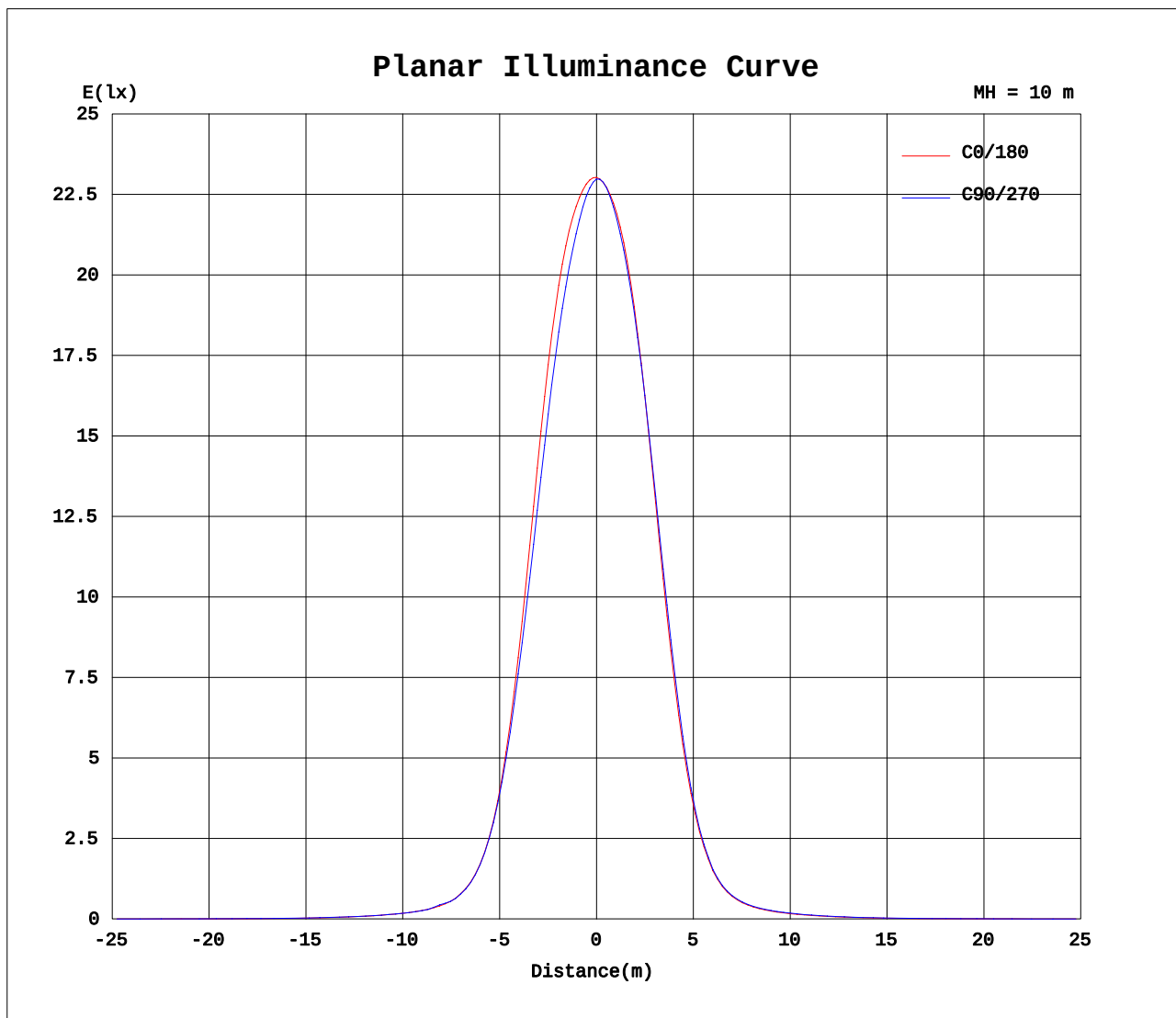
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

The luminaire satisfies the specified luminance criteria for
Negative Software with Type I & II Screen(Good to Moderate treatment).

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.10m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.5330A P:12.79W PF:1.000 Lamp Flux:1136.31x1 lm																	
NAME: SPOT04-3000K-90RA-36D									TYPE:						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:		
MFR.:									SUR.:						PROTECTION ANGLE:		

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338			
0	2303	2301	2300	2299	2298	2297	2294	2293	2303	2301	2300	2299	2298	2297	2294	2293			
5	2267	2245	2219	2206	2197	2203	2216	2236	2249	2253	2247	2237	2237	2237	2241	2250			
10	2129	2081	2013	1997	1986	1984	2012	2060	2070	2074	2054	2032	2048	2046	2064	2098			
15	1800	1760	1679	1652	1633	1628	1653	1701	1686	1691	1683	1667	1693	1691	1724	1753			
20	1255	1248	1195	1178	1154	1149	1148	1175	1136	1138	1148	1147	1176	1172	1195	1199			
25	698	707	685	687	673	665	647	659	621	615	625	628	649	639	654	649			
30	319	329	320	326	316	314	300	307	287	282	287	285	296	289	298	294			
35	145	144	146	143	143	136	135	135	128	129	131	134	133	134	132	134			
40	78.4	79.6	79.3	78.7	81.3	74.5	73.4	74.4	72.7	74.4	76.1	76.2	77.1	75.9	75.9	75.0			
45	50.9	52.3	52.5	52.0	51.0	50.1	49.6	49.1	47.7	49.4	51.3	51.3	51.9	51.6	51.6	49.7			
50	34.0	35.2	35.9	35.7	35.0	34.6	33.9	32.9	31.6	32.8	34.6	34.6	35.0	35.0	34.8	33.1			
55	20.9	22.0	22.9	22.9	22.5	22.2	21.3	20.2	19.1	19.9	21.6	21.4	21.8	21.7	21.5	20.0			
60	12.3	13.1	14.1	14.1	13.9	13.7	13.1	12.0	11.4	12.0	13.2	13.2	13.4	13.4	13.1	11.9			
65	7.29	7.82	8.17	8.19	8.06	7.94	7.54	7.16	6.51	6.85	7.39	7.42	7.68	7.73	7.59	7.05			
70	3.09	3.23	3.13	3.18	3.06	3.11	2.90	2.97	2.51	2.53	2.76	2.70	2.93	2.98	3.02	2.90			
75	0.23	0.29	0.26	0.20	0.19	0.16	0.17	0.24	0.07	0.14	0.09	0.13	0.14	0.22	0.16	0.23			
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00			
120	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.01	0.05	0.00	0.04	0.00	0.04	0.00	0.05	0.00			
125	0.03	0.07	0.03	0.08	0.02	0.08	0.03	0.08	0.11	0.07	0.11	0.07	0.11	0.07	0.11	0.06			
130	0.15	0.19	0.15	0.19	0.14	0.19	0.15	0.20	0.24	0.19	0.24	0.20	0.23	0.18	0.22	0.17			
135	0.39	0.43	0.39	0.43	0.37	0.43	0.40	0.44	0.48	0.43	0.48	0.43	0.46	0.41	0.44	0.40			
140	0.78	0.82	0.79	0.83	0.78	0.84	0.81	0.85	0.89	0.85	0.87	0.83	0.85	0.79	0.82	0.79			
145	1.34	1.37	1.36	1.40	1.38	1.43	1.40	1.44	1.49	1.44	1.45	1.39	1.41	1.35	1.38	1.35			
150	2.06	2.10	2.10	2.13	2.12	2.17	2.15	2.18	2.21	2.17	2.16	2.10	2.09	2.05	2.08	2.07			
155	2.85	2.91	2.90	2.95	2.95	2.99	2.96	2.97	3.00	2.95	2.95	2.89	2.89	2.83	2.87	2.84			
160	3.64	3.71	3.70	3.76	3.75	3.79	3.74	3.76	3.78	3.70	3.71	3.66	3.67	3.61	3.63	3.60			
165	4.40	4.45	4.44	4.50	4.49	4.52	4.45	4.47	4.52	4.42	4.44	4.41	4.43	4.37	4.38	4.34			
170	5.11	5.15	5.12	5.18	5.15	5.18	5.11	5.15	5.22	5.12	5.15	5.11	5.14	5.07	5.10	5.05			
175	5.71	5.75	5.68	5.71	5.67	5.71	5.65	5.72	5.80	5.70	5.72	5.67	5.70	5.64	5.69	5.65			
180	6.02	6.02	5.95	5.97	5.92	5.94	5.93	5.95	6.02	5.99	5.99	5.93	5.93	5.93	5.94	5.95			

C Range: 0 - 360DEG
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