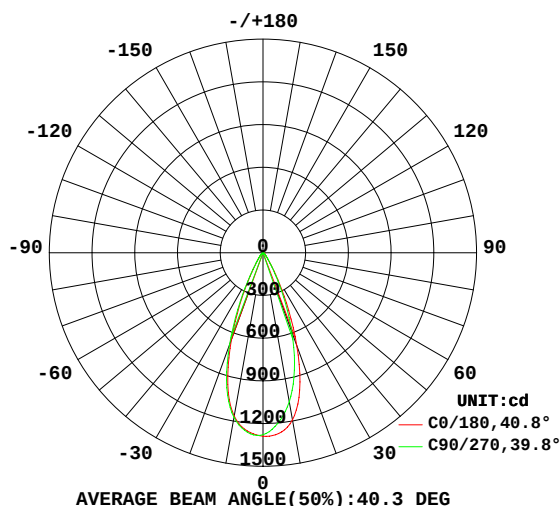


LUMINAIRE PHOTOMETRIC TEST REPORT

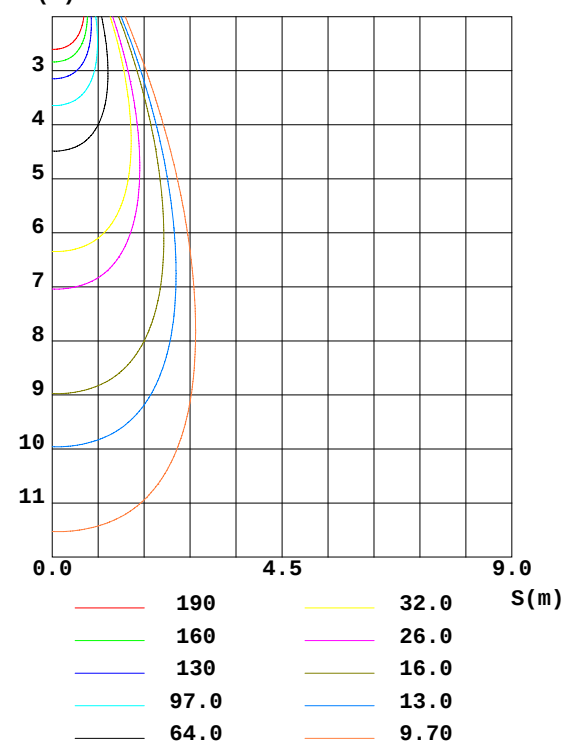
Test:U:24.00V I:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm					
NAME:CL-SPOT02 3000K-90RA			TYPE:		WEIGHT:
DIM.:			SPEC.:		SERIAL No.:
MFR.:			SUR.:		PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.75 lm/W
MODEL		I _{max} (cd)	1290	S/MH(C0/180)	0.64	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.62	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	630.83	η UP, DN(C0-180)	0.2, 48.9	
NOMINAL FLUX(lm)	630.831	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 50.8	
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	1192	1096	1062	1091	1165	1164	1174	1188	0- 10	115.7	115.7	18.3, 18.3
20	695.5	626.1	594.0	617.7	647.6	674.8	686.8	701.7	10- 20	255.1	370.8	58.8, 58.8
30	181.1	171.5	166.2	167.1	158.8	164.6	165.9	168.7	20- 30	170.0	540.8	85.7, 85.7
40	42.28	42.09	49.75	40.92	39.16	42.30	42.76	41.13	30- 40	51.73	592.5	93.9, 93.9
50	17.59	18.66	18.52	18.41	16.53	18.55	18.89	18.84	40- 50	21.49	614.0	97.3, 97.3
60	6.037	7.331	7.378	7.043	5.567	6.878	7.058	7.034	50- 60	10.32	624.3	99.99
70	1.514	1.458	1.533	1.401	1.223	1.351	1.610	1.549	60- 70	3.887	628.2	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0.3403	628.5	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	628.5	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	628.5	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	628.5	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	628.5	99.6, 99.6
130	0.0282	0.0328	0.0187	0.0281	0.0900	0.0898	0.0898	0.0852	120-130	0.0116	628.5	99.6, 99.6
140	0.4053	0.4098	0.3910	0.4194	0.4584	0.4300	0.4065	0.4111	130-140	0.1561	628.7	99.7, 99.7
150	1.113	1.151	1.174	1.179	1.200	1.115	1.077	1.086	140-150	0.4607	629.2	99.7, 99.7
160	1.991	2.052	2.090	2.057	2.073	1.988	1.950	1.950	150-160	0.7178	629.9	99.8, 99.8
170	2.802	2.826	2.836	2.807	2.875	2.804	2.795	2.781	160-170	0.6749	630.5	100, 100
180	3.303	3.256	3.237	3.242	3.322	3.280	3.256	3.251	170-180	0.2883	630.8	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

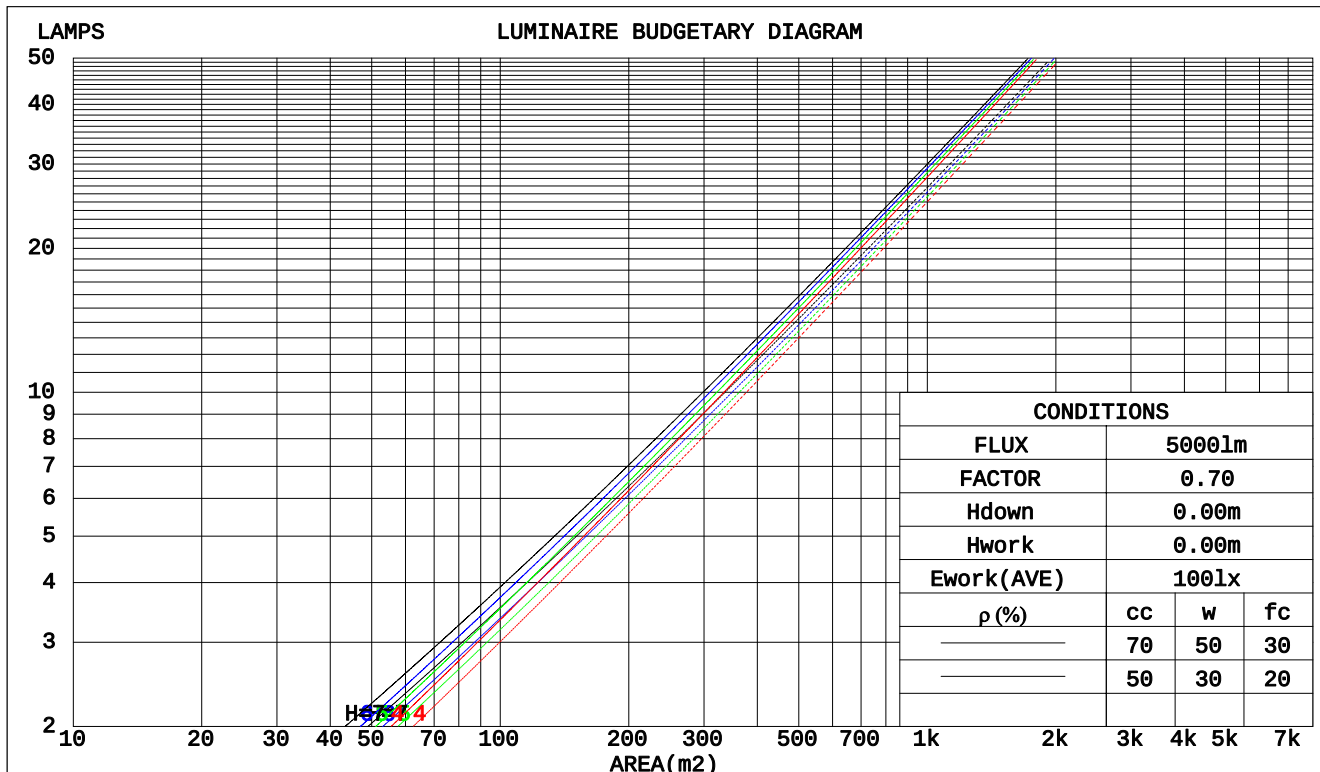
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm		
NAME: SPOT02-3000K-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	.95	.91	.98	.94	.90	.95	.92	.89	.93	.90	.87	.90	.88	.86	.85
4.0	.94	.89	.85	.93	.88	.85	.90	.87	.84	.88	.85	.83	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.78	.76
6.0	.85	.79	.76	.84	.79	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
7.0	.81	.75	.72	.80	.75	.72	.79	.74	.71	.78	.74	.71	.77	.73	.70	.69
8.0	.77	.72	.68	.77	.72	.68	.75	.71	.68	.74	.71	.68	.74	.70	.67	.66
9.0	.74	.69	.65	.73	.68	.65	.72	.68	.65	.72	.68	.65	.71	.67	.64	.63
10.0	.71	.66	.62	.70	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.61



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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm									
NAME: SPOT02-3000K-90RA-36D					TYPE:			WEIGHT:	
DIM.:					SPEC.:			SERIAL No.:	
MFR.:					SUR.:			PROTECTION ANGLE:	

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	.161	.091	.029	.154	.088	.028	.141	.081	.026	.129	.075	.024	.119	.069	.022		
2.0	.152	.083	.026	.146	.081	.025	.136	.075	.023	.126	.071	.022	.117	.066	.021		
3.0	.144	.076	.023	.139	.074	.022	.130	.070	.021	.122	.067	.020	.114	.063	.020		
4.0	.136	.071	.021	.132	.069	.020	.124	.066	.020	.117	.063	.019	.110	.060	.018		
5.0	.129	.066	.019	.126	.064	.019	.119	.062	.018	.113	.059	.018	.107	.057	.017		
6.0	.123	.062	.018	.120	.060	.017	.114	.058	.017	.108	.056	.017	.103	.054	.016		
7.0	.117	.058	.016	.114	.057	.016	.109	.055	.016	.104	.054	.016	.100	.052	.015		
8.0	.112	.055	.015	.110	.054	.015	.105	.052	.015	.101	.051	.015	.097	.050	.014		
9.0	.107	.052	.014	.105	.051	.014	.101	.050	.014	.097	.049	.014	.093	.047	.014		
10.0	.103	.049	.014	.101	.049	.014	.097	.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	.156	.135	.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	.014	.012	.009		
5.0	.122	.089	.065	.105	.077	.057	.072	.054	.040	.042	.032	.024	.014	.010	.008		
6.0	.114	.080	.055	.098	.069	.048	.068	.048	.034	.039	.028	.020	.013	.009	.007		
7.0	.107	.072	.047	.092	.062	.041	.064	.044	.029	.037	.026	.017	.012	.008	.006		
8.0	.101	.066	.041	.087	.057	.036	.060	.040	.025	.035	.024	.015	.011	.008	.005		
9.0	.096	.060	.036	.083	.052	.031	.057	.037	.022	.033	.022	.013	.011	.007	.004		
10.0	.091	.056	.032	.079	.048	.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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm											
NAME: SPOT02-3000K-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	2H	2.2	3.0	2.5	3.2	3.4	2.2	3.1	2.5	3.2	3.4
	3H	2.2	2.9	2.4	3.1	3.3	2.2	3.0	2.5	3.2	3.4
	4H	2.1	2.8	2.4	3.0	3.3	2.1	2.8	2.4	3.1	3.3
	6H	2.0	2.7	2.3	2.9	3.2	2.0	2.7	2.3	3.0	3.2
	8H	2.0	2.6	2.3	2.9	3.1	2.0	2.6	2.3	2.9	3.2
	12H	1.9	2.5	2.2	2.8	3.1	2.0	2.6	2.3	2.8	3.1
4H	2H	2.2	2.9	2.4	3.1	3.3	2.2	2.9	2.5	3.1	3.3
	3H	2.1	2.7	2.4	3.0	3.3	2.2	2.8	2.5	3.0	3.3
	4H	2.0	2.6	2.4	2.9	3.2	2.1	2.6	2.4	2.9	3.2
	6H	1.9	2.4	2.3	2.8	3.1	2.0	2.5	2.3	2.8	3.1
	8H	1.9	2.3	2.3	2.7	3.1	1.9	2.4	2.3	2.7	3.1
	12H	1.8	2.3	2.2	2.6	3.0	1.9	2.3	2.3	2.7	3.1
8H	4H	1.9	2.4	2.3	2.7	3.1	1.9	2.4	2.3	2.7	3.1
	6H	1.8	2.2	2.2	2.6	3.0	1.8	2.2	2.2	2.6	3.0
	8H	1.7	2.1	2.2	2.5	2.9	1.8	2.1	2.2	2.5	3.0
	12H	1.7	2.0	2.1	2.4	2.9	1.7	2.0	2.2	2.4	2.9
12H	4H	1.8	2.3	2.2	2.6	3.0	1.9	2.3	2.3	2.7	3.1
	6H	1.7	2.1	2.2	2.5	2.9	1.8	2.1	2.2	2.5	3.0
	8H	1.7	2.0	2.1	2.4	2.9	1.7	2.0	2.2	2.4	2.9
Variations with the observer position at spacings:											
S = 1.0H	+ 2.1 / - 3.6					+ 1.9 / - 3.2					
1.5H	+ 2.8 / - 2.3					+ 2.6 / - 2.0					
2.0H	+ 3.2 / - 3.4					+ 3.0 / - 3.1					

CIE Pub.117 Corrected 630.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.6)

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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm		
NAME: SPOT02-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

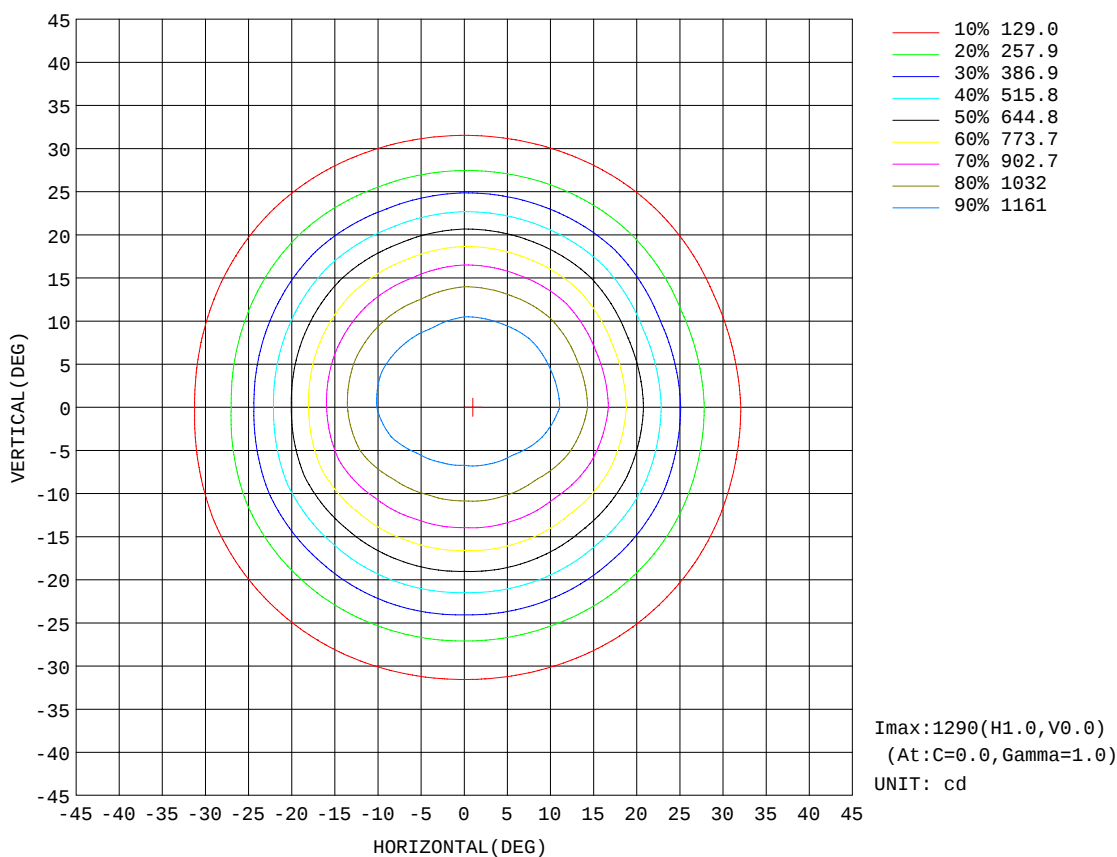
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	78	86	81	77	74
0.80	95	89	86	94	89	86	93	88	85	81
1.00	99	94	90	99	93	90	97	93	90	86
1.25	103	98	95	102	98	94	100	97	94	90
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	105	101	107	104	101	104	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	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	108	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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm		
NAME: SPOT02-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

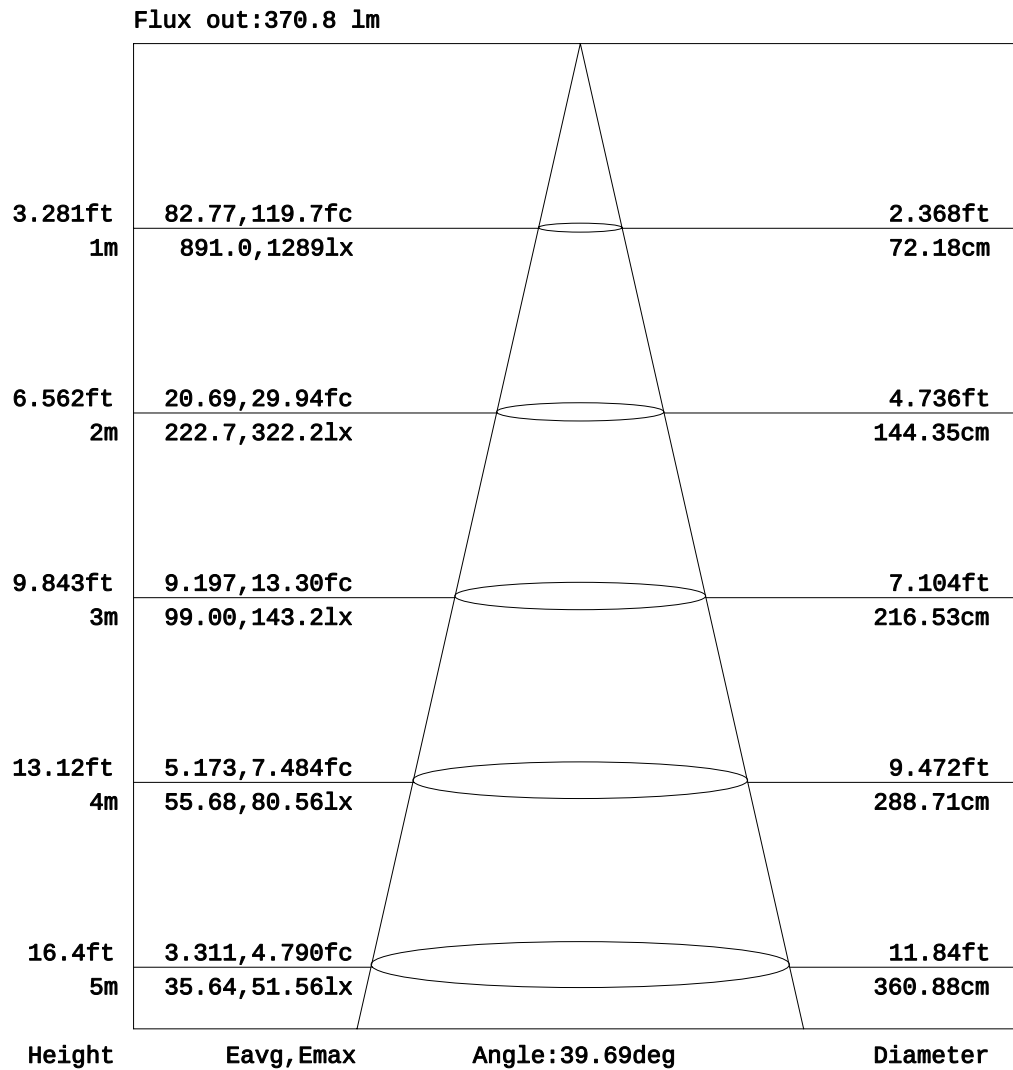


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm		
NAME: SPOT02-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



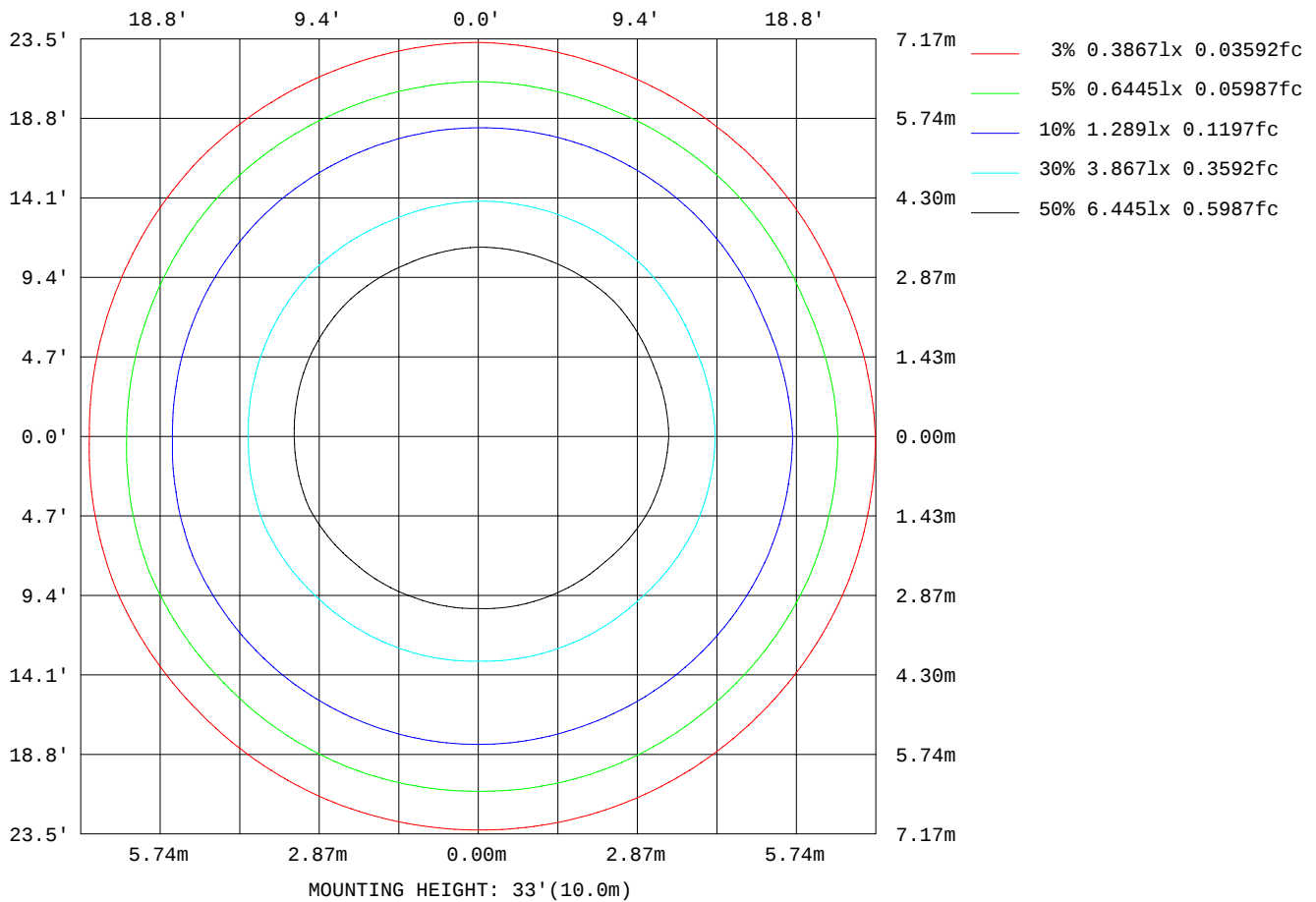
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm		
NAME: SPOT02-3000K-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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm		
NAME: SPOT02-3000K-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	630.831	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 deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	185	189	194	200	206	209	210	209	208	207	207	207	206	203	198	190	182	174	170
60	121	125	131	137	144	148	149	149	148	148	148	148	146	143	137	129	121	115	111
65	85	88	92	94	96	98	100	100	100	100	99	98	97	95	92	88	84	78	74
70	44	45	45	44	43	43	44	44	45	45	45	45	44	42	41	41	41	38	36
75	2	2	2	3	3	2	1	0	1	2	1	0	0	1	1	1	1	0	0
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	210	200	---	500
Category 2	65 to 90	100	200	---	500
Category 3	75 to 90	3	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:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm		
NAME: SPOT02-3000K-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	630.831	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	185	189	194	200	206	209	210	209	208	207	207	207	206	203	198	190	182	174	170
60	121	125	131	137	144	148	149	149	148	148	148	148	146	143	137	129	121	115	111
65	85	88	92	94	96	98	100	100	100	100	99	98	97	95	92	88	84	78	74
70	44	45	45	44	43	43	44	44	45	45	45	45	44	42	41	41	41	38	36
75	2	2	2	3	3	2	1	0	1	2	1	0	0	1	1	1	1	0	0
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	210	1000	1500	200	500
65 to 90	100	1000	1500	200	500

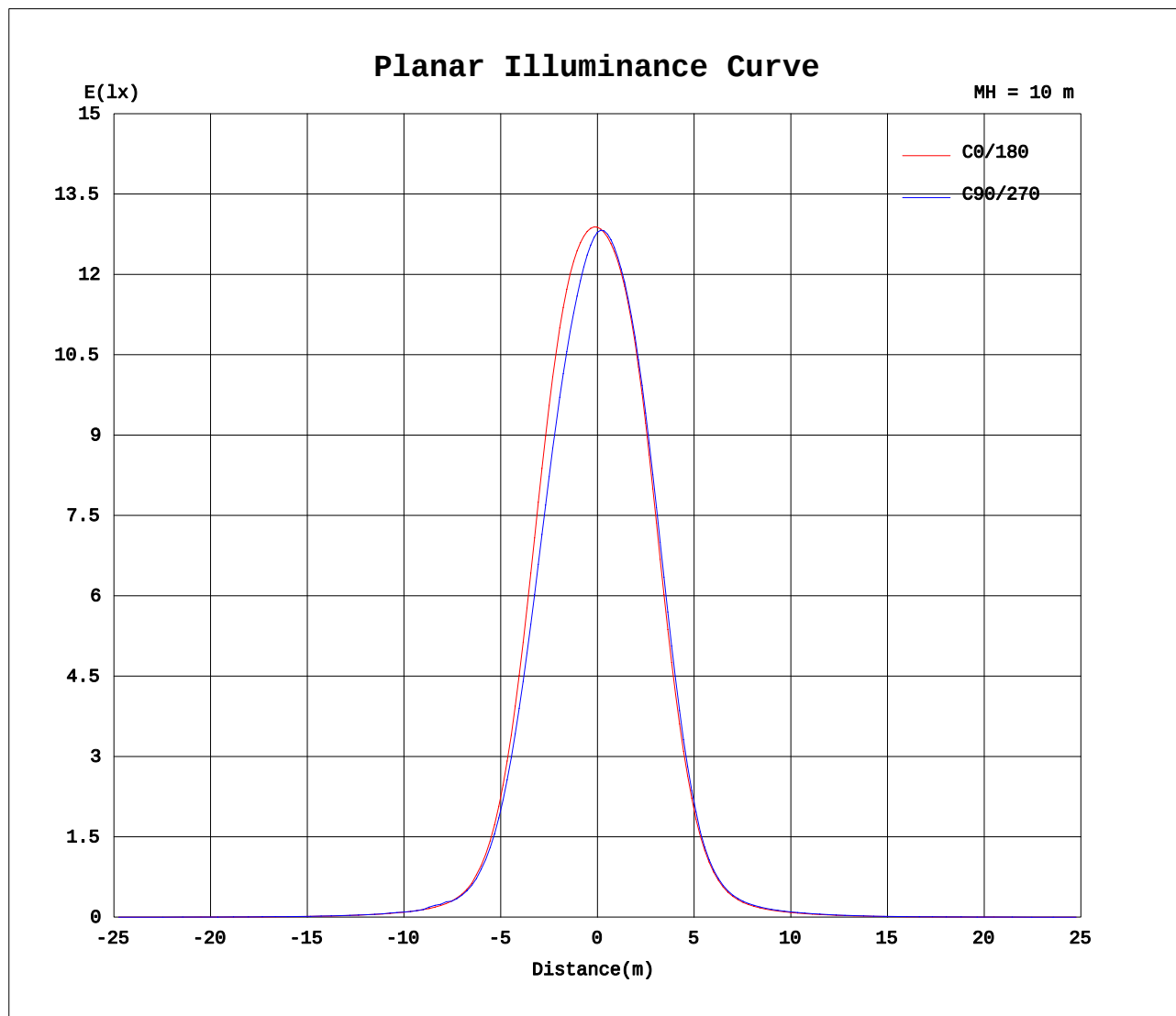
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.3030A P:7.272W PF:1.000 Lamp Flux:630.831x1 lm																	
NAME: SPOT02-3000K-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	1288	1284	1282	1280	1278	1279	1277	1276	1288	1284	1282	1280	1278	1279	1277	1276			
5	1274	1250	1225	1211	1202	1207	1216	1235	1257	1262	1263	1261	1265	1267	1270	1268			
10	1192	1148	1096	1076	1062	1067	1091	1137	1165	1173	1164	1158	1174	1177	1188	1187			
15	997	954	894	869	854	860	889	942	958	970	969	962	983	985	1000	990			
20	696	671	626	608	594	602	618	652	648	663	675	668	687	690	702	681			
25	392	385	361	352	345	351	353	368	355	362	373	365	378	381	389	371			
30	181	178	172	167	166	166	167	169	159	162	165	164	166	168	169	166			
35	78.5	78.7	76.9	76.0	75.0	74.9	73.8	74.6	70.9	71.9	74.3	74.2	75.2	72.3	72.6	72.0			
40	42.3	42.6	42.1	41.7	49.8	41.2	40.9	40.5	39.2	40.5	42.3	42.5	42.8	41.3	41.1	40.2			
45	27.0	27.5	27.5	27.3	27.3	27.1	27.1	26.3	25.3	26.4	27.9	28.1	28.3	27.7	27.8	26.6			
50	17.6	18.2	18.7	18.7	18.5	18.5	18.4	17.5	16.5	17.2	18.6	18.6	18.9	18.6	18.8	17.5			
55	10.6	11.2	12.0	12.0	11.9	11.8	11.6	10.5	9.74	10.2	11.4	11.4	11.6	11.5	11.6	10.4			
60	6.04	6.60	7.33	7.46	7.38	7.37	7.04	6.12	5.57	5.95	6.88	6.96	7.06	7.03	7.03	6.10			
65	3.57	3.90	4.11	4.24	4.21	4.14	3.94	3.60	3.13	3.40	3.84	3.96	4.17	4.06	4.09	3.67			
70	1.51	1.53	1.46	1.51	1.53	1.53	1.40	1.41	1.22	1.24	1.35	1.48	1.61	1.58	1.55	1.50			
75	0.05	0.07	0.06	0.00	0.04	0.00	0.03	0.02	0.00	0.03	0.00	0.05	0.01	0.05	0.01	0.10			
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	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			
125	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.02	0.00	0.02	0.00			
130	0.03	0.08	0.03	0.07	0.02	0.07	0.03	0.08	0.09	0.04	0.09	0.04	0.09	0.03	0.09	0.03			
135	0.18	0.22	0.17	0.22	0.15	0.21	0.18	0.22	0.23	0.17	0.21	0.16	0.20	0.16	0.20	0.16			
140	0.41	0.45	0.41	0.45	0.39	0.45	0.42	0.46	0.46	0.40	0.43	0.37	0.41	0.36	0.41	0.38			
145	0.72	0.77	0.73	0.78	0.74	0.80	0.75	0.79	0.79	0.72	0.73	0.67	0.69	0.66	0.71	0.69			
150	1.11	1.18	1.15	1.20	1.17	1.22	1.18	1.20	1.20	1.12	1.11	1.05	1.08	1.03	1.09	1.08			
155	1.55	1.62	1.61	1.67	1.64	1.68	1.63	1.65	1.64	1.55	1.55	1.48	1.51	1.46	1.52	1.50			
160	1.99	2.08	2.05	2.12	2.09	2.12	2.06	2.08	2.07	1.97	1.99	1.92	1.95	1.90	1.95	1.93			
165	2.41	2.48	2.46	2.52	2.49	2.51	2.44	2.46	2.49	2.38	2.40	2.34	2.39	2.34	2.37	2.34			
170	2.80	2.86	2.83	2.88	2.84	2.87	2.81	2.85	2.87	2.77	2.80	2.75	2.79	2.74	2.78	2.76			
175	3.14	3.19	3.11	3.17	3.12	3.16	3.10	3.15	3.20	3.10	3.14	3.08	3.12	3.07	3.12	3.09			
180	3.30	3.31	3.26	3.26	3.24	3.25	3.24	3.26	3.32	3.28	3.28	3.25	3.26	3.24	3.25	3.26			

C Range: 0 - 360DEG
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