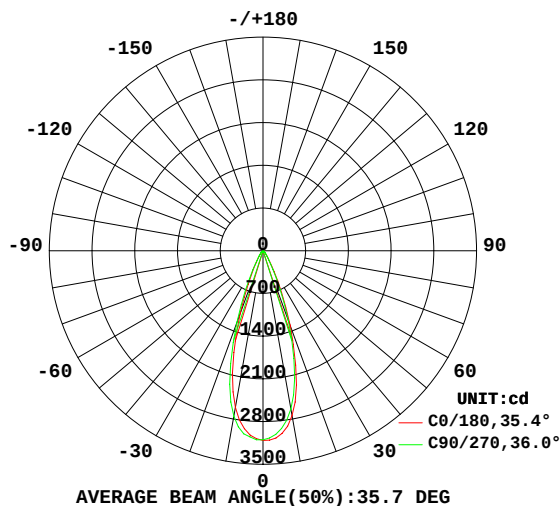


LUMINAIRE PHOTOMETRIC TEST REPORT

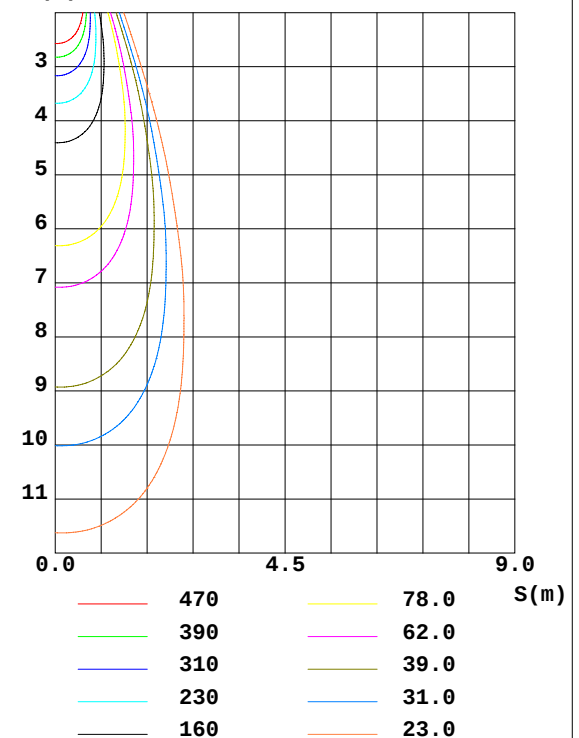
Test:U:24.00V I:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME:CL-Gemini65-ULS 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.68 lm/W			
MODEL		I _{max} (cd)	3107	S/MH(C0/180)	0.58
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	0.57
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1271.4	η UP, DN(C0-180)	0.2, 50.2
NOMINAL FLUX(lm)	1271.4	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 49.5
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.60

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:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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	2747	2716	2635	2592	2609	2671	2754	2771	0- 10	277.4	277.4	21.8, 21.8
20	1304	1309	1214	1142	1089	1149	1250	1289	10- 20	544.5	821.9	64.6, 64.6
30	280.4	270.5	250.4	238.7	221.8	228.4	251.9	290.6	20- 30	284.0	1106	87, 87
40	81.11	79.26	78.57	75.06	72.34	71.83	76.31	78.92	30- 40	86.15	1192	93.8, 93.8
50	37.91	37.73	37.23	36.64	35.81	35.26	36.52	37.29	40- 50	40.94	1233	97, 97
60	18.51	18.82	18.38	17.75	16.93	16.15	16.56	17.38	50- 60	24.28	1257	98.9, 98.9
70	2.909	2.956	2.682	2.356	2.068	1.881	2.003	2.431	60- 70	8.712	1266	99.6, 99.6
80	0.0000	0	0	0	0	0	0	0	70- 80	0.5102	1266	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0.0000	1266	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	1266	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	1266	99.6, 99.6
120	0	0	0	0	0.0190	0.0190	0.0190	0.0190	110-120	0.0005	1266	99.6, 99.6
130	0.0988	0.0941	0.0799	0.1270	0.1987	0.1893	0.1797	0.1703	120-130	0.0457	1267	99.6, 99.6
140	0.7020	0.7161	0.7443	0.8198	0.8603	0.8461	0.7989	0.7375	130-140	0.3029	1267	99.6, 99.6
150	2.207	2.263	2.381	2.461	2.438	2.404	2.301	2.201	140-150	0.9099	1268	99.7, 99.7
160	4.377	4.429	4.594	4.627	4.570	4.495	4.400	4.283	150-160	1.541	1269	99.8, 99.8
170	6.185	6.166	6.228	6.275	6.278	6.193	6.113	6.066	160-170	1.500	1271	100, 100
180	7.135	7.074	7.060	7.055	7.145	7.098	7.069	7.060	170-180	0.6290	1271	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

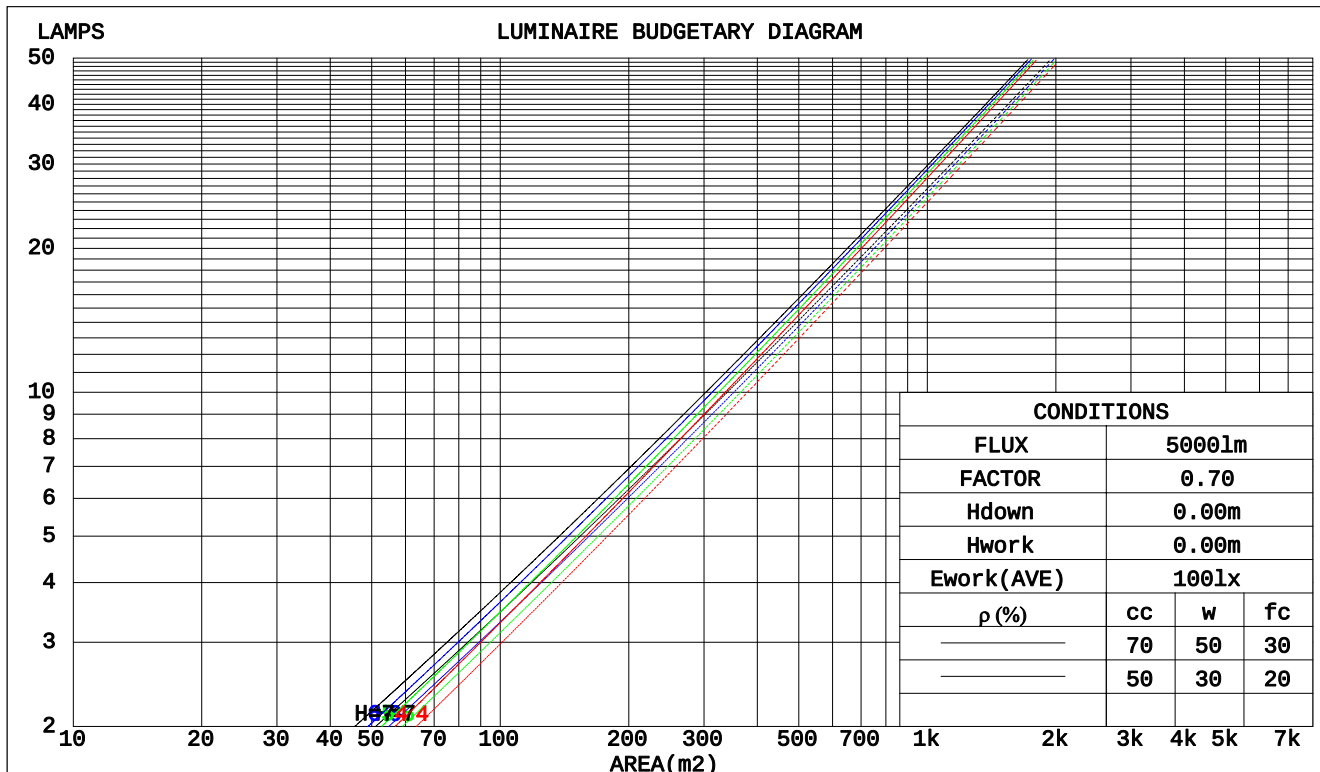
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-09-19

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME: SPOT65-S 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.97	.95	.94	.95	.93	.92	.90
3.0	.90	.95	.92	.98	.94	.91	.96	.92	.90	.93	.91	.88	.91	.89	.87	.86
4.0	.95	.90	.86	.94	.89	.86	.91	.88	.85	.89	.86	.84	.88	.85	.83	.82
5.0	.90	.85	.82	.89	.85	.81	.87	.84	.80	.86	.82	.80	.84	.81	.79	.78
6.0	.86	.81	.77	.85	.81	.77	.84	.80	.77	.82	.79	.76	.81	.78	.76	.74
7.0	.82	.77	.74	.82	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.72	.71
8.0	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.73	.70	.75	.72	.70	.68
9.0	.76	.71	.68	.75	.71	.68	.74	.70	.67	.74	.70	.67	.73	.69	.67	.66
10.0	.73	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.70	.67	.64	.63



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm											
NAME: SPOT65-S 16W-36D-LENS-3000K90RA						TYPE:			WEIGHT:		
DIM.:						SPEC.:			SERIAL No.:		
MFR.: 0						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	.156	.089	.028	.150	.085	.027	.137	.079	.025	.125	.072	.023	.115	.066	.021	
2.0	.148	.081	.025	.142	.078	.024	.131	.073	.023	.122	.068	.021	.113	.064	.020	
3.0	.139	.074	.022	.134	.072	.022	.125	.068	.021	.117	.064	.020	.109	.061	.019	
4.0	.131	.068	.020	.127	.067	.020	.120	.064	.019	.113	.060	.018	.106	.058	.018	
5.0	.124	.063	.018	.121	.062	.018	.114	.060	.018	.108	.057	.017	.102	.055	.016	
6.0	.118	.059	.017	.115	.058	.017	.109	.056	.016	.104	.054	.016	.099	.052	.015	
7.0	.113	.056	.016	.110	.055	.016	.105	.053	.015	.100	.051	.015	.096	.050	.015	
8.0	.107	.052	.015	.105	.052	.015	.101	.050	.014	.096	.049	.014	.092	.047	.014	
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.093	.047	.013	.089	.045	.013	
10.0	.098	.047	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.086	.043	.012	

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						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	.129	.101	.095	.089	.058	.055	.052	.019	.018	.017	
2.0	.156	.136	.118	.134	.117	.102	.092	.081	.071	.053	.047	.042	.017	.015	.014	
3.0	.142	.116	.096	.122	.100	.083	.084	.070	.058	.048	.041	.034	.016	.013	.011	
4.0	.131	.101	.079	.112	.088	.069	.077	.061	.048	.045	.036	.029	.014	.012	.009	
5.0	.121	.089	.066	.104	.077	.057	.072	.054	.041	.042	.032	.024	.013	.010	.008	
6.0	.113	.080	.056	.097	.069	.049	.067	.048	.034	.039	.028	.020	.013	.009	.007	
7.0	.106	.072	.048	.091	.062	.042	.063	.044	.030	.037	.026	.018	.012	.008	.006	
8.0	.100	.065	.042	.086	.057	.036	.059	.040	.026	.035	.023	.015	.011	.008	.005	
9.0	.094	.060	.037	.081	.052	.032	.056	.037	.023	.033	.022	.014	.011	.007	.004	
10.0	.090	.055	.033	.077	.048	.028	.054	.034	.020	.031	.020	.012	.010	.007	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 γ 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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm											
NAME: SPOT65-S 16W-36D-LENS-3000K90RA					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.: 0					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		4.5	5.3	4.8	5.5	5.7	4.4	5.2	4.6	5.3	5.5
3H		4.5	5.2	4.8	5.4	5.6	4.4	5.1	4.6	5.3	5.5
4H		4.4	5.1	4.7	5.3	5.6	4.3	5.0	4.6	5.2	5.4
6H		4.4	5.0	4.6	5.2	5.5	4.2	4.8	4.5	5.1	5.3
8H		4.3	4.9	4.6	5.2	5.5	4.2	4.8	4.5	5.0	5.3
12H		4.3	4.9	4.6	5.1	5.4	4.1	4.7	4.4	5.0	5.3
4H 2H		4.6	5.3	4.8	5.5	5.7	4.4	5.1	4.7	5.3	5.6
3H		4.5	5.1	4.9	5.4	5.7	4.4	5.0	4.7	5.3	5.5
4H		4.4	5.0	4.8	5.3	5.6	4.3	4.9	4.7	5.2	5.5
6H		4.3	4.8	4.7	5.2	5.5	4.2	4.7	4.6	5.0	5.4
8H		4.3	4.7	4.7	5.1	5.5	4.2	4.6	4.5	5.0	5.3
12H		4.2	4.6	4.7	5.0	5.4	4.1	4.5	4.5	4.9	5.3
8H 4H		4.3	4.7	4.7	5.1	5.5	4.2	4.6	4.6	5.0	5.3
6H		4.2	4.6	4.6	5.0	5.4	4.0	4.4	4.5	4.8	5.2
8H		4.1	4.5	4.6	4.9	5.3	4.0	4.3	4.4	4.7	5.2
12H		4.1	4.4	4.5	4.8	5.3	3.9	4.2	4.4	4.7	5.1
12H 4H		4.2	4.7	4.7	5.0	5.4	4.1	4.5	4.5	4.9	5.3
6H		4.1	4.5	4.6	4.9	5.3	4.0	4.3	4.4	4.7	5.2
8H		4.1	4.4	4.5	4.8	5.3	3.9	4.2	4.4	4.7	5.1
Variations with the observer position at spacings:											
S = 1.0H		+ 1.4 / - 2.1					+ 1.3 / - 2.0				
1.5H		+ 2.1 / - 1.2					+ 1.9 / - 1.1				
2.0H		+ 2.1 / - 3.0					+ 2.0 / - 3.0				

CIE Pub.117 Corrected 1271 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.8)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME: SPOT65-S 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

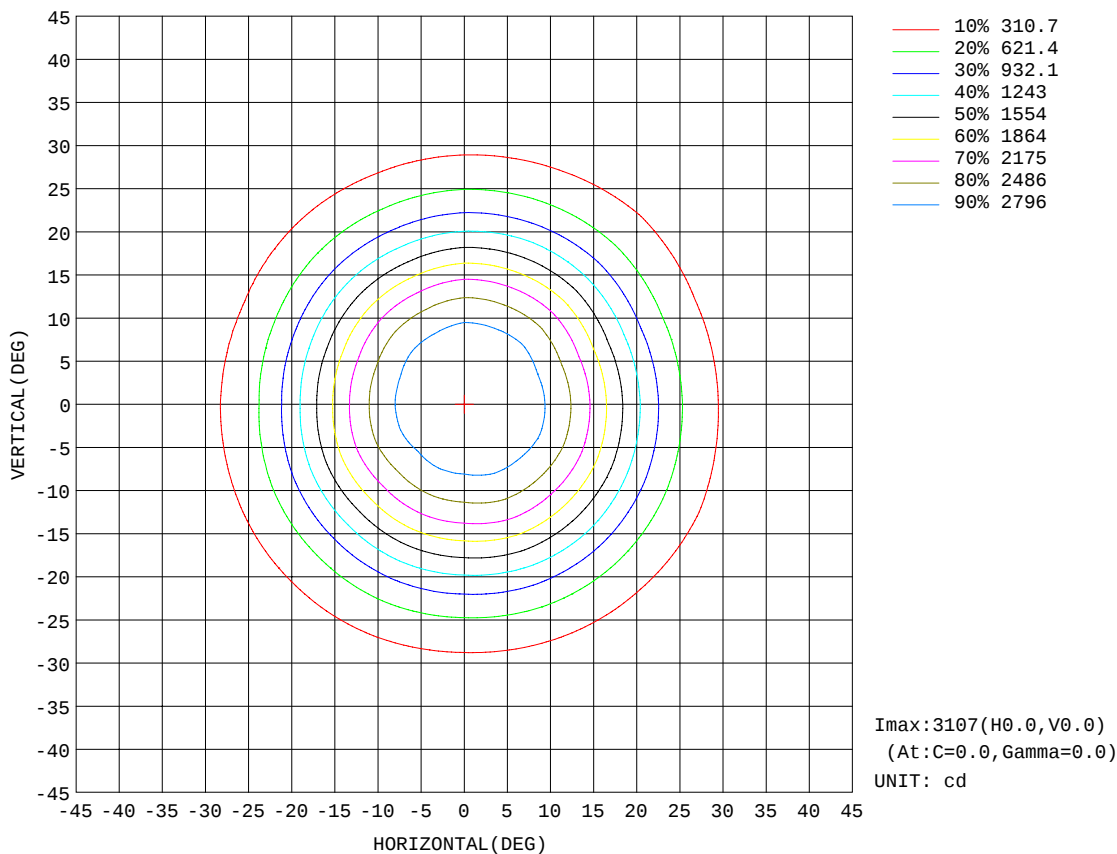
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	77	86	81	77	74
0.80	95	89	86	94	89	85	93	88	85	81
1.00	99	94	90	99	93	90	97	93	89	86
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	106	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	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:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME: SPOT65-S 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



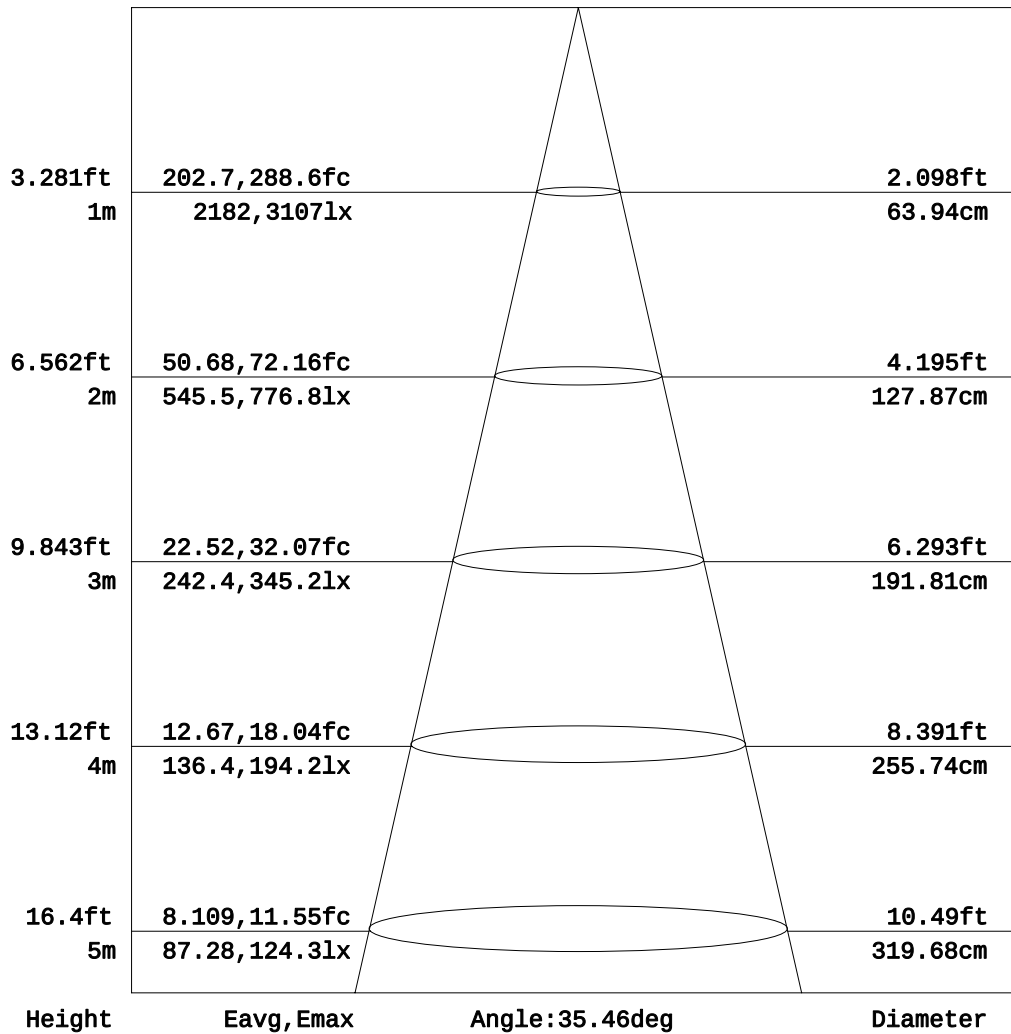
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME: SPOT65-S 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Flux out:723.7 lm



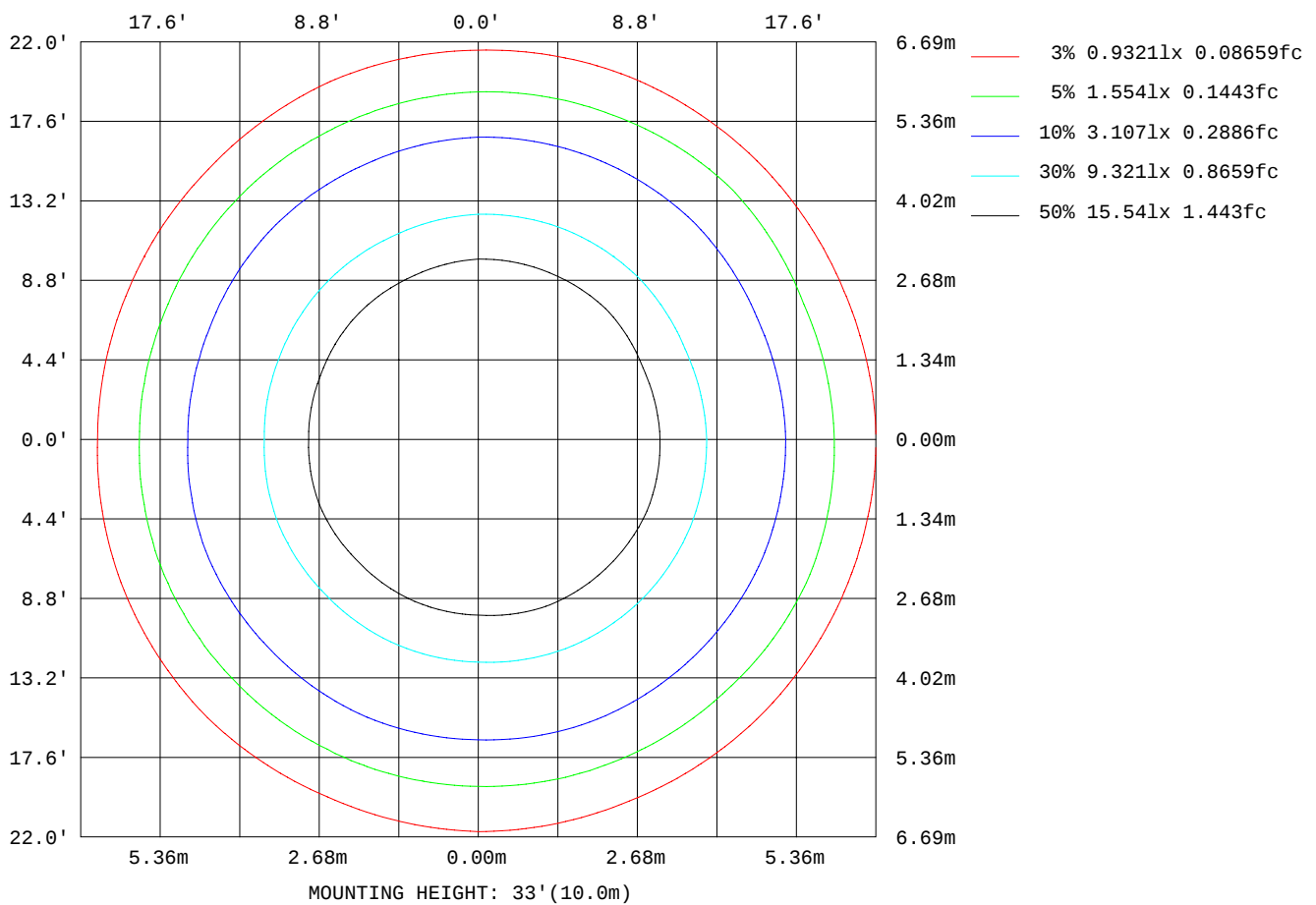
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-09-19

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME: SPOT65-S 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-09-19

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME: SPOT65-S 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1271.4	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	491	495	498	497	495	494	493	492	489	486	486	487	484	480	479	479	478	473	468
60	370	375	378	378	377	376	376	375	371	368	367	367	363	357	355	355	353	346	339
65	211	216	218	217	215	214	215	214	210	206	205	204	201	197	195	196	194	189	183
70	85	88	89	89	87	87	87	86	82	78	77	76	73	70	69	70	70	65	60
75	7	6	5	5	6	5	4	4	4	5	5	4	4	4	3	3	2	2	2
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	498	200	---	500
Category 2	65 to 90	218	200	---	500
Category 3	75 to 90	7	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:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm		
NAME: SPOT65-S 16W-36D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1271.4	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	491	495	498	497	495	494	493	492	489	486	486	487	484	480	479	479	478	473	468
60	370	375	378	378	377	376	376	375	371	368	367	367	363	357	355	355	353	346	339
65	211	216	218	217	215	214	215	214	210	206	205	204	201	197	195	196	194	189	183
70	85	88	89	89	87	87	87	86	82	78	77	76	73	70	69	70	70	65	60
75	7	6	5	5	6	5	4	4	4	5	5	4	4	4	3	3	2	2	2
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	498	1000	1500	200	500
65 to 90	218	1000	1500	200	500

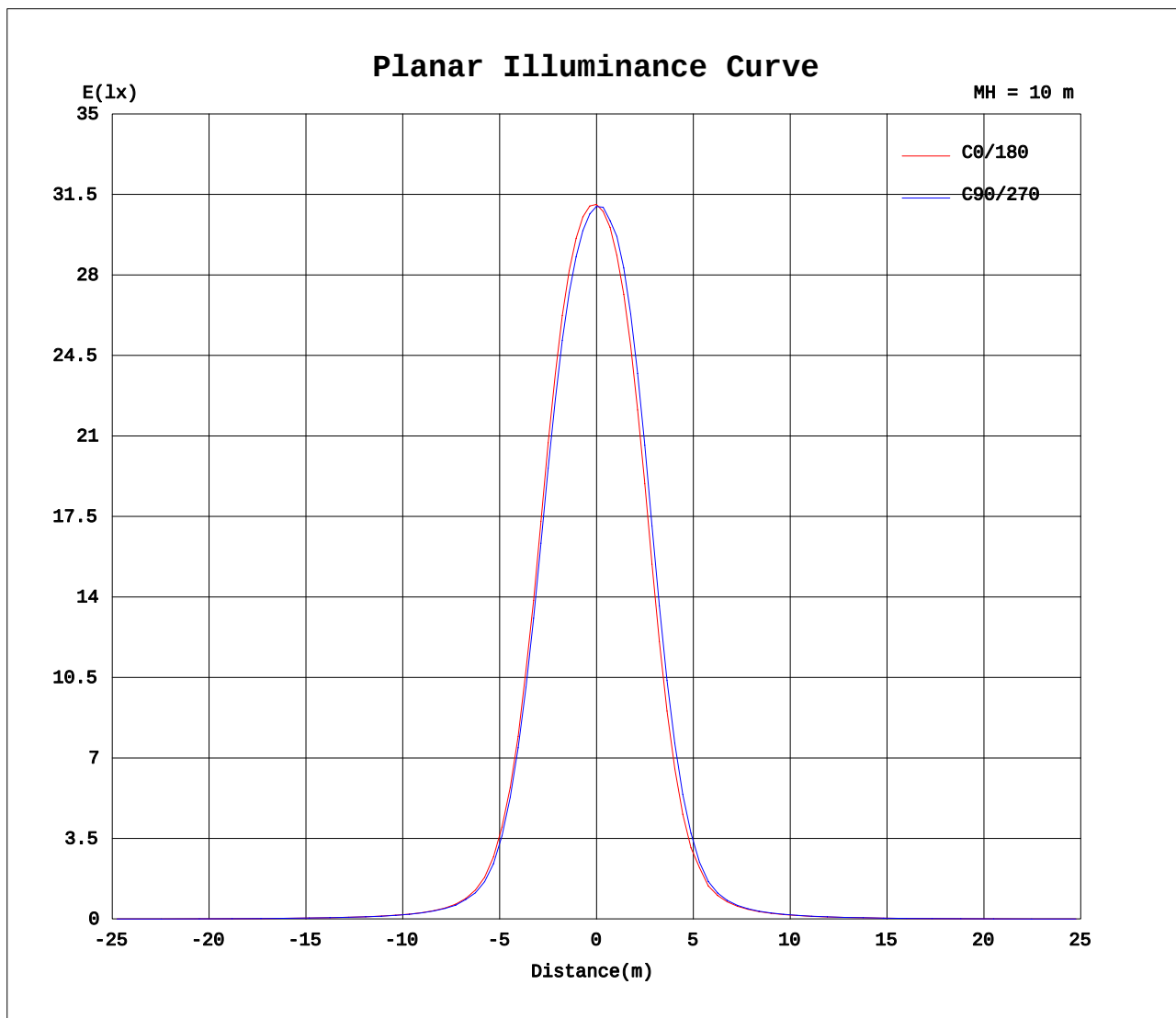
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:0
Test Date:2022-09-19

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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: 0
Test Date: 2022-09-19

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
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:0.7000A P:16.80W PF:1.000 Lamp Flux:1271.4x1 lm																	
NAME: SPOT65-S 16W-36D-LENS-3000K90RA									TYPE:						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:		
MFR.: 0									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	3107	3103	3101	3100	3098	3100	3098	3100	3107	3103	3101	3100	3098	3100	3098	3100			
5	3075	3053	3048	3043	3015	3018	3003	3021	3029	3026	3053	3056	3059	3074	3080	3065			
10	2747	2754	2716	2696	2635	2620	2592	2616	2609	2615	2671	2698	2754	2754	2771	2731			
15	2267	2284	2246	2225	2146	2122	2082	2101	2072	2078	2142	2176	2255	2265	2289	2235			
20	1304	1314	1309	1273	1214	1184	1142	1132	1089	1106	1149	1182	1250	1288	1289	1264			
25	751	764	753	733	695	679	645	634	598	608	641	665	711	729	744	718			
30	280	300	270	259	250	245	239	234	222	223	228	239	252	264	291	268			
35	158	155	152	147	150	141	144	137	131	130	132	143	143	149	151	152			
40	81.1	81.1	79.3	78.5	78.6	76.7	75.1	74.7	72.3	71.7	71.8	73.5	76.3	77.6	78.9	78.5			
45	58.1	58.4	57.6	57.2	56.6	56.2	55.1	54.6	53.1	52.7	52.6	53.8	55.7	56.4	57.1	56.6			
50	37.9	38.3	37.7	37.6	37.2	37.1	36.6	36.5	35.8	35.5	35.3	35.7	36.5	36.9	37.3	37.0			
55	30.0	30.4	30.1	30.0	29.6	29.7	29.2	29.2	28.6	28.1	28.0	28.0	28.6	28.9	29.2	29.1			
60	18.5	18.9	18.8	18.8	18.4	18.3	17.8	17.7	16.9	16.3	16.2	16.0	16.6	16.8	17.4	17.5			
65	10.5	10.9	10.7	10.8	10.3	10.3	9.79	9.80	9.15	8.69	8.51	8.41	8.80	9.00	9.58	9.68			
70	2.91	3.06	2.96	2.98	2.68	2.59	2.36	2.41	2.07	1.90	1.88	1.77	2.00	2.08	2.43	2.53			
75	0.41	0.37	0.34	0.31	0.30	0.30	0.22	0.19	0.18	0.17	0.15	0.18	0.15	0.23	0.23	0.31			
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	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00			
125	0.00	0.03	0.00	0.03	0.00	0.04	0.00	0.04	0.07	0.02	0.07	0.01	0.06	0.01	0.06	0.01			
130	0.10	0.14	0.09	0.15	0.08	0.16	0.13	0.17	0.20	0.16	0.19	0.15	0.18	0.13	0.17	0.12			
135	0.25	0.30	0.25	0.31	0.24	0.34	0.30	0.35	0.38	0.32	0.36	0.31	0.34	0.29	0.32	0.27			
140	0.70	0.75	0.72	0.78	0.74	0.84	0.82	0.85	0.86	0.82	0.85	0.78	0.80	0.73	0.74	0.69			
145	1.18	1.22	1.22	1.29	1.28	1.37	1.36	1.38	1.37	1.34	1.35	1.31	1.29	1.21	1.21	1.17			
150	2.21	2.25	2.26	2.35	2.38	2.46	2.46	2.47	2.44	2.41	2.40	2.34	2.30	2.23	2.20	2.17			
155	3.05	3.09	3.11	3.20	3.24	3.32	3.32	3.33	3.28	3.25	3.23	3.16	3.12	3.04	3.01	2.99			
160	4.38	4.40	4.43	4.51	4.59	4.62	4.63	4.64	4.57	4.51	4.49	4.43	4.40	4.30	4.28	4.26			
165	5.20	5.22	5.21	5.30	5.34	5.40	5.39	5.42	5.34	5.26	5.25	5.18	5.16	5.08	5.07	5.05			
170	6.19	6.21	6.17	6.22	6.23	6.30	6.28	6.33	6.28	6.19	6.19	6.13	6.11	6.04	6.07	6.03			
175	6.70	6.73	6.66	6.72	6.70	6.76	6.73	6.80	6.78	6.69	6.71	6.64	6.65	6.57	6.61	6.58			
180	7.14	7.14	7.07	7.08	7.06	7.06	7.06	7.09	7.14	7.10	7.10	7.07	7.07	7.05	7.06	7.08			

C Range: 0 - 360DEG
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