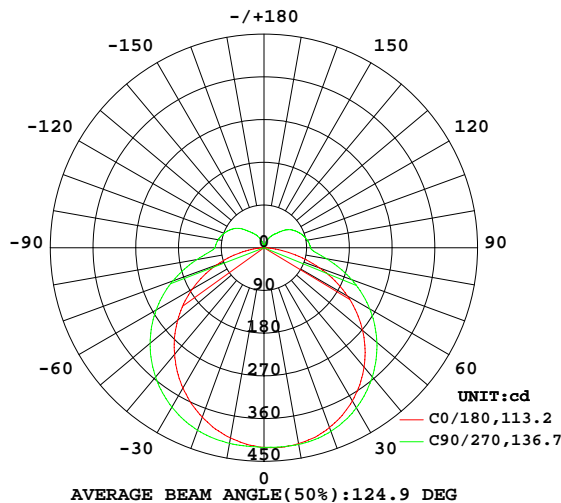


LUMINAIRE PHOTOMETRIC TEST REPORT

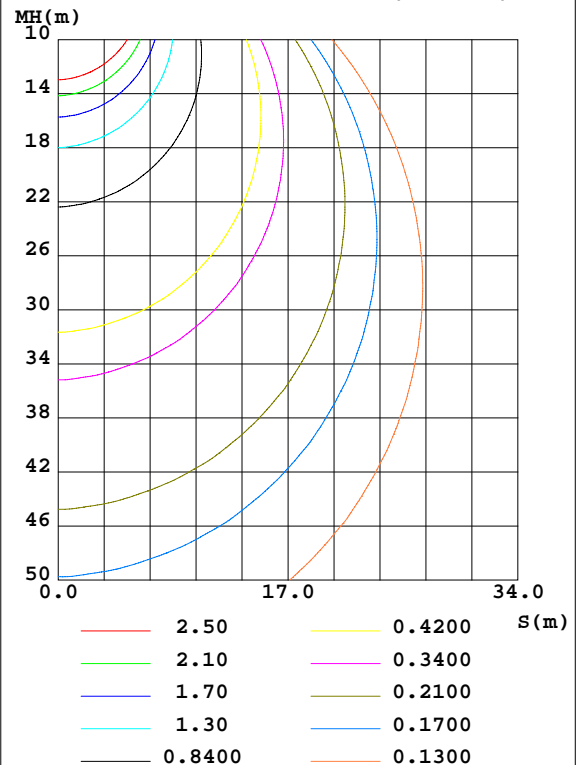
Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.67 lm/W			
MODEL	PSZ2C180531004-10	Imax(cd)	422.3	S/MH(C0/180)	1.31
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.37
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1697.3	η UP,DN(C0-180)	7.4,42.8
NOMINAL FLUX(lm)	1697.28	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	6.9,42.9
LAMPS INSIDE	1	η up(%)	14.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	85.7	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [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	406.7	410.9	418.4	420.1	419.2	421.5	420.7	412.9	0- 10	39.92	39.92	2.35,2.35
20	379.8	393.2	409.4	410.4	402.9	412.2	411.6	396.0	10- 20	116.0	155.9	9.19,9.19
30	341.2	365.0	387.8	387.7	372.3	389.1	389.4	367.5	20- 30	179.8	335.8	19.8,19.8
40	293.0	327.2	355.3	352.7	328.0	352.9	355.3	328.4	30- 40	223.7	559.4	33,33
50	237.2	280.6	313.1	306.3	271.2	304.5	310.4	280.3	40- 50	242.2	801.6	47.2,47.2
60	174.5	226.3	262.5	249.7	203.0	245.4	257.2	224.1	50- 60	233.2	1035	61,61
70	106.5	165.6	204.2	184.4	124.7	177.6	196.6	162.0	60- 70	197.3	1232	72.6,72.6
80	39.20	103.8	143.3	116.2	45.44	107.0	133.8	98.58	70- 80	140.0	1372	80.8,80.8
90	0.1372	64.49	103.6	74.19	0.0688	68.04	98.14	61.66	80- 90	81.86	1454	85.7,85.7
100	0.1515	61.05	98.05	70.50	0.0922	64.22	92.76	58.49	90-100	63.99	1518	89.4,89.4
110	0.1746	55.70	89.66	63.97	0.1311	57.82	84.09	53.02	100-110	57.33	1575	92.8,92.8
120	0.2012	46.73	78.47	53.05	0.1862	48.10	73.10	44.73	110-120	46.82	1622	95.6,95.6
130	0.2694	33.27	62.43	37.77	0.2445	33.83	58.21	31.15	120-130	34.42	1657	97.6,97.6
140	0.3961	25.38	42.37	28.75	0.2990	24.67	39.11	23.99	130-140	21.58	1678	98.9,98.9
150	0.5762	17.33	29.90	19.46	0.3567	13.59	26.97	17.72	140-150	12.25	1690	99.6,99.6
160	0.6743	8.445	16.58	9.506	0.4438	2.884	13.80	10.71	150-160	5.488	1696	99.9,99.9
170	0.6641	0.9081	3.792	1.148	0.4766	0.4739	2.008	1.747	160-170	1.330	1697	100,100
180	0.5763	0.5753	0.5904	0.5823	0.5730	0.5730	0.5760	0.5768	170-180	0.0731	1697	100,100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 11.8 %									UNIT:lm		

Conical surface Flux(90deg): 679.91 lm

%lum = 40.1%

%lamp = 40.1%

Conical surface Flux(120deg): 1034.8 lm

%lum = 61.0%

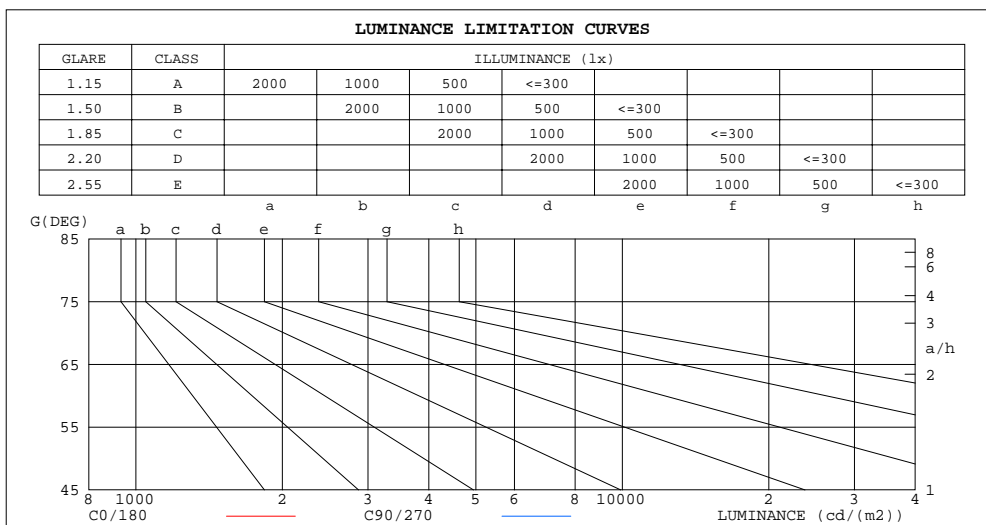
%lamp = 61.0%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	143828	1348070
80	225873	823848
75	279550	669061
70	311658	595957
65	334446	553330
60	349162	524150
55	361083	503008
50	369211	486339
45	377278	473443

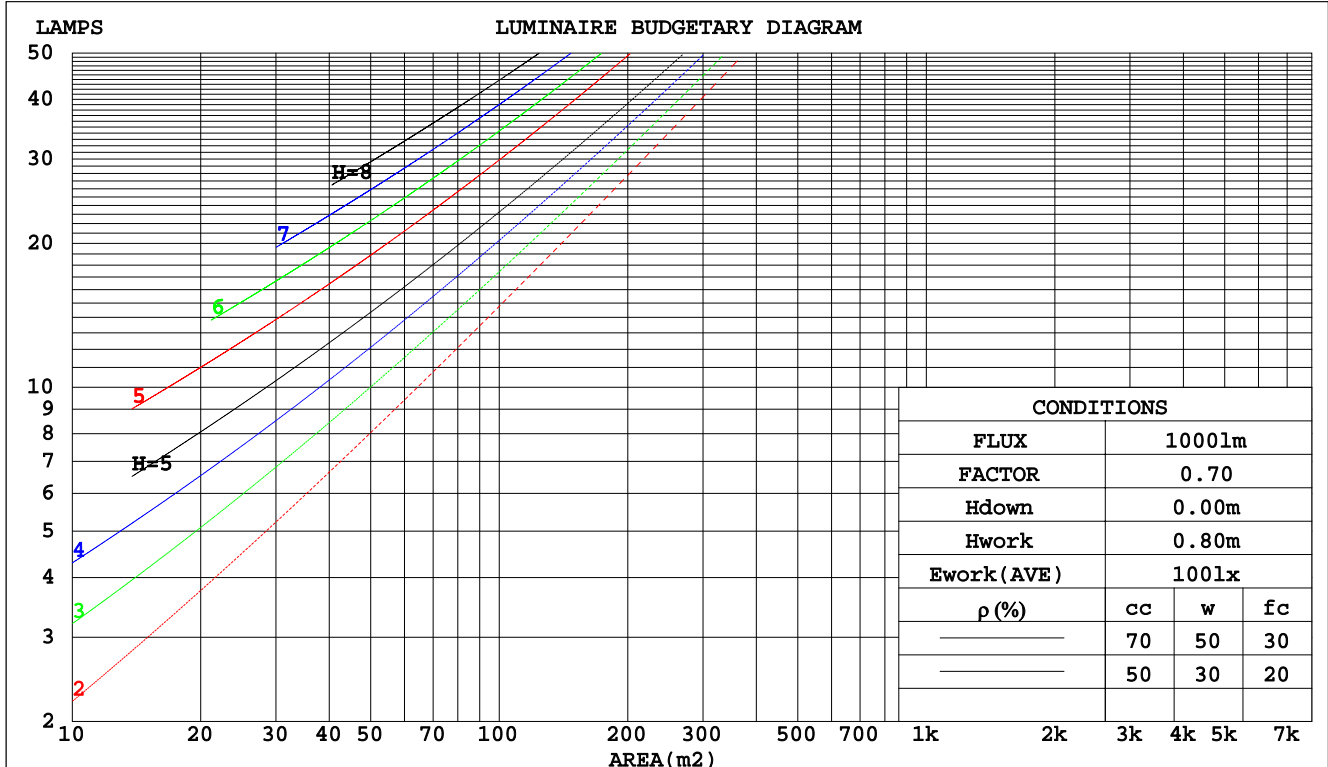
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

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	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86
1.0	.98	.93	.89	.95	.90	.86	.88	.84	.81	.81	.78	.76	.75	.73	.71	.68
2.0	.85	.77	.71	.81	.75	.69	.76	.70	.65	.70	.66	.62	.65	.61	.58	.55
3.0	.74	.65	.58	.71	.63	.57	.66	.59	.54	.61	.56	.51	.57	.52	.48	.46
4.0	.65	.56	.49	.63	.54	.48	.58	.51	.45	.54	.48	.43	.50	.45	.41	.38
5.0	.58	.48	.41	.56	.47	.41	.52	.44	.39	.48	.42	.37	.45	.40	.35	.33
6.0	.52	.42	.36	.50	.41	.35	.47	.39	.34	.44	.37	.32	.41	.35	.31	.28
7.0	.47	.38	.31	.45	.37	.31	.42	.35	.30	.40	.33	.28	.37	.31	.27	.25
8.0	.42	.34	.28	.41	.33	.27	.39	.31	.26	.36	.30	.25	.34	.28	.24	.22
9.0	.39	.30	.25	.38	.30	.24	.35	.28	.23	.33	.27	.23	.31	.26	.22	.20
10.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.31	.25	.20	.29	.24	.20	.18



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm					
NAME: Under Cabinet Mount			TYPE:N/A		WEIGHT:N/A
SPEC.:N/A			DIM.: N/A		SERIAL No.:N/A
MFR.: Libo			SUR.:N/A		Shielding Angle:N/A

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	.351	.200	.063	.340	.194	.062	.318	.182	.058	.298	.172	.055	.280	.162	.052	
2.0	.314	.172	.053	.304	.168	.052	.285	.158	.049	.267	.150	.047	.250	.142	.045	
3.0	.284	.151	.045	.275	.147	.044	.257	.139	.042	.241	.132	.041	.226	.125	.039	
4.0	.259	.134	.039	.250	.131	.039	.234	.124	.037	.220	.118	.036	.206	.112	.034	
5.0	.237	.121	.035	.229	.118	.034	.215	.112	.033	.201	.106	.032	.189	.101	.030	
6.0	.218	.109	.031	.211	.107	.031	.198	.101	.030	.186	.097	.028	.174	.092	.027	
7.0	.202	.100	.028	.195	.097	.028	.184	.093	.027	.172	.088	.026	.162	.084	.025	
8.0	.188	.092	.026	.182	.090	.025	.171	.085	.024	.161	.081	.023	.151	.078	.023	
9.0	.175	.085	.024	.170	.083	.023	.160	.079	.022	.151	.075	.022	.142	.072	.021	
10.0	.164	.079	.022	.159	.077	.021	.150	.074	.021	.141	.070	.020	.133	.067	.019	

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	.300	.300	.300	.256	.256	.256	.175	.175	.175	.100	.100	.100	.032	.032	.032	
1.0	.293	.266	.241	.251	.228	.208	.172	.157	.144	.099	.091	.083	.032	.029	.027	
2.0	.286	.243	.206	.245	.209	.178	.168	.145	.124	.097	.084	.073	.031	.027	.024	
3.0	.279	.226	.184	.239	.195	.159	.164	.135	.112	.095	.079	.066	.030	.026	.022	
4.0	.271	.213	.169	.233	.184	.147	.160	.128	.103	.093	.075	.061	.030	.024	.020	
5.0	.264	.203	.159	.226	.176	.138	.156	.123	.097	.090	.072	.058	.029	.024	.019	
6.0	.256	.195	.151	.220	.169	.132	.152	.118	.093	.088	.070	.055	.028	.023	.018	
7.0	.249	.188	.146	.215	.163	.127	.148	.115	.090	.086	.067	.054	.028	.022	.018	
8.0	.243	.183	.142	.209	.159	.123	.145	.111	.088	.084	.066	.052	.027	.022	.017	
9.0	.237	.178	.138	.204	.155	.121	.141	.109	.086	.082	.064	.051	.027	.021	.017	
10.0	.231	.174	.136	.199	.151	.119	.138	.106	.084	.081	.063	.050	.026	.021	.017	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:24.8DEG
 Operators:Monkey
 Test Date:2018-06-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.460m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm											
NAME: Under Cabinet Mount						TYPE:N/A		WEIGHT:N/A			
SPEC.:N/A						DIM.: N/A		SERIAL No.:N/A			
MFR.: Libo						SUR.:N/A		Shielding Angle:N/A			
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		32.3	33.6	32.7	34.1	34.6	33.8	35.2	34.3	35.7	36.1
3H		33.7	35.0	34.2	35.5	36.0	36.1	37.3	36.5	37.8	38.3
4H		34.3	35.5	34.8	36.0	36.5	37.2	38.4	37.7	38.9	39.4
6H		34.6	35.8	35.2	36.3	36.9	38.3	39.5	38.9	40.0	40.6
8H		34.7	35.8	35.3	36.3	36.9	39.0	40.1	39.5	40.6	41.2
12H		34.7	35.8	35.3	36.3	36.9	39.7	40.7	40.2	41.3	41.9
4H 2H		33.2	34.4	33.7	34.9	35.5	34.4	35.6	34.9	36.1	36.6
3H		34.9	36.0	35.4	36.5	37.1	36.8	37.9	37.4	38.4	39.0
4H		35.6	36.6	36.2	37.1	37.8	38.1	39.1	38.7	39.6	40.3
6H		36.1	37.0	36.7	37.6	38.2	39.5	40.3	40.1	40.9	41.6
8H		36.3	37.1	36.9	37.7	38.4	40.2	41.0	40.8	41.6	42.3
12H		36.3	37.1	37.0	37.7	38.4	41.0	41.8	41.7	42.4	43.1
8H 4H		36.3	37.1	36.9	37.7	38.4	38.4	39.2	39.0	39.8	40.5
6H		37.1	37.7	37.7	38.4	39.1	40.0	40.7	40.6	41.3	42.0
8H		37.4	38.0	38.0	38.6	39.4	40.9	41.5	41.6	42.2	42.9
12H		37.6	38.1	38.2	38.8	39.5	42.0	42.5	42.7	43.2	43.9
12H 4H		36.5	37.2	37.1	37.8	38.5	38.4	39.1	39.0	39.7	40.4
6H		37.4	38.0	38.1	38.7	39.4	40.1	40.7	40.7	41.3	42.1
8H		37.8	38.3	38.5	39.0	39.8	41.1	41.6	41.8	42.3	43.0
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H		+ 0.2 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1697 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.8)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

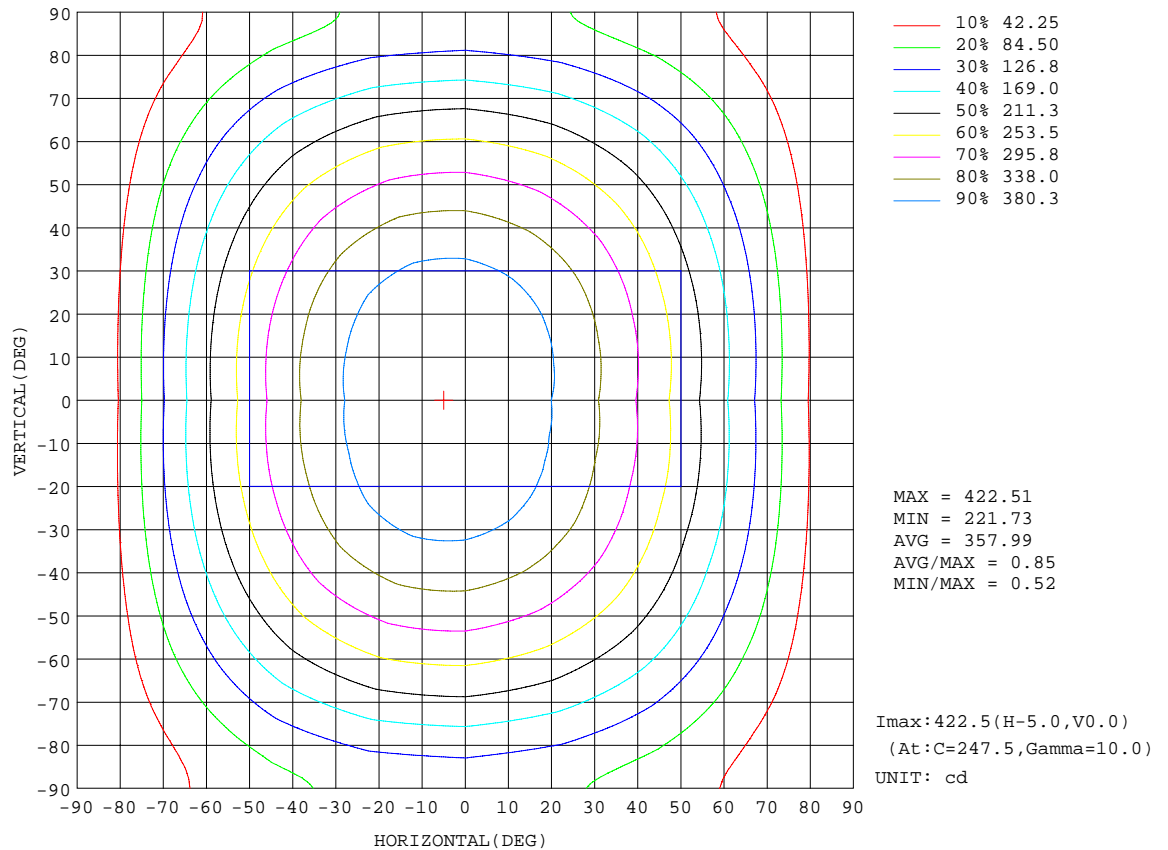
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	38	31	49	38	31	47	37	30	24
0.80	60	47	39	58	47	39	56	45	38	31
1.00	68	55	47	66	55	47	63	55	46	37
1.25	75	63	55	73	62	54	69	59	53	43
1.50	80	69	61	78	67	60	73	64	58	48
2.00	87	77	69	84	75	68	79	71	65	55
2.50	92	82	75	88	80	73	83	76	70	58
3.00	95	87	80	92	84	78	86	80	74	62
4.00	100	93	87	96	90	84	90	84	80	67
5.00	102	96	91	99	93	89	92	87	84	70
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: 10.0deg/s
 Temperature:24.8DEG
 Operators:Monkey
 Test Date:2018-06-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.460m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

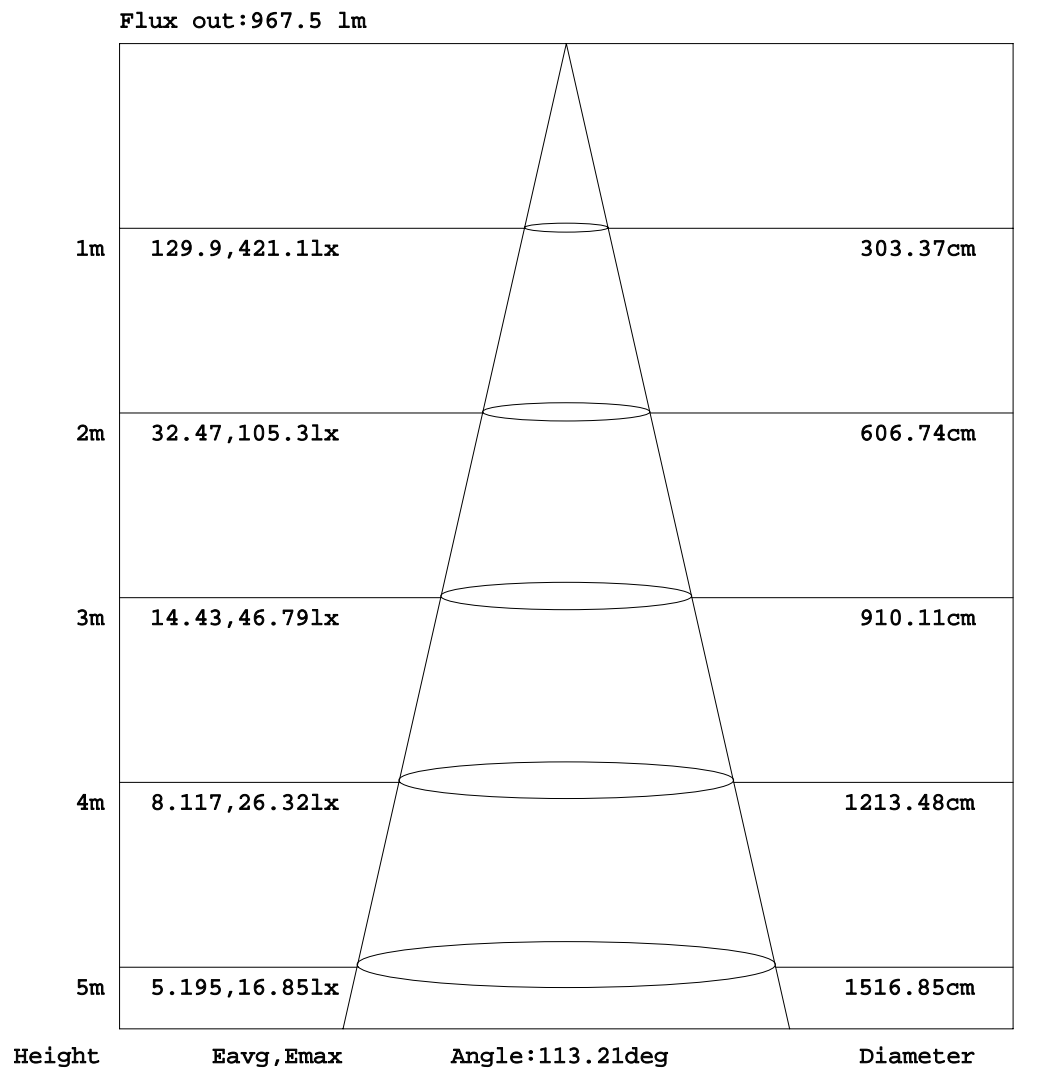


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature: 24.8DEG
Operators: Monkey
Test Date: 2018-06-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity: 44%
Test Distance: 2.460m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A



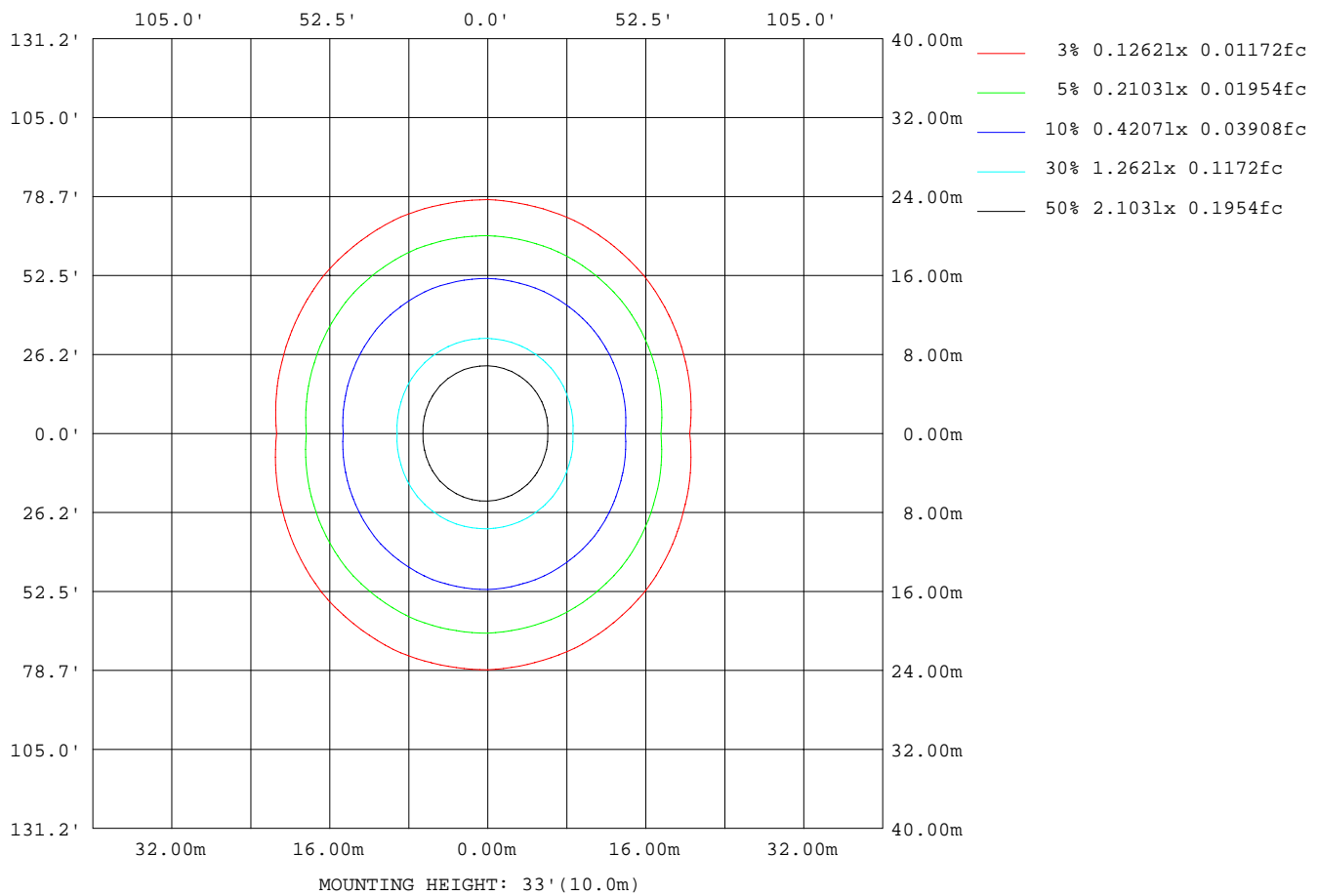
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm		
NAME: Under Cabinet Mount	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Libo	SUR.:N/A	Shielding Angle:N/A

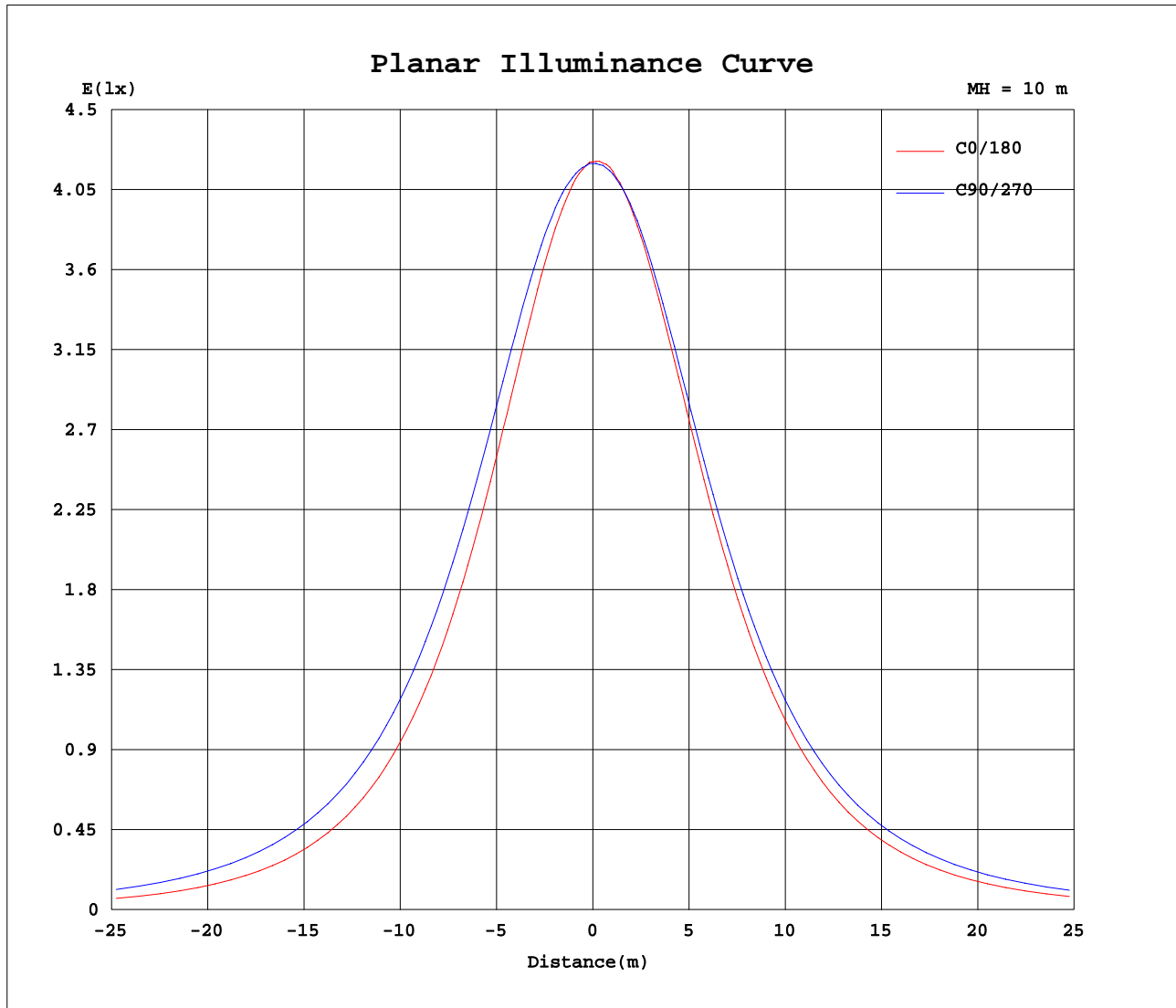
AvgL	cd/m2
L_0~180(65)av	362675
L_0~180(75)av	302670
L_0~180(85)av	152933
L_90~270(65)av	546198
L_90~270(75)av	653023
L_90~270(85)av	1298138
L_45(65)av	485210
L_45(75)av	535778
L_45(85)av	912626

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Monkey
Test Date:2018-06-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.460m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature: 24.8DEG
Operators: Monkey
Test Date: 2018-06-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity: 44%
Test Distance: 2.460m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.2030A P:24.02W PF:0.9857 Lamp Flux:1697.28x1 lm																	
NAME: Under Cabinet Mount									TYPE:N/A						WEIGHT:N/A		
SPEC.:N/A									DIM.: N/A						SERIAL No.:N/A		
MFR.: Libo									SUR.:N/A						Shielding Angle:N/A		

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	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420			
5	416	416	416	418	420	420	421	421	422	422	422	422	421	419	417	417			
10	407	408	411	415	418	419	420	419	419	420	421	422	421	417	413	409			
15	396	397	403	411	415	417	416	413	414	415	419	419	418	413	405	400			
20	380	384	393	402	409	411	410	405	403	407	412	414	412	405	396	386			
25	363	368	380	392	400	402	400	393	390	395	402	405	402	394	382	371			
30	341	350	365	379	388	390	388	378	372	380	389	392	389	380	367	352			
35	319	329	347	362	373	375	371	360	352	362	372	377	373	363	349	332			
40	293	306	327	344	355	357	353	339	328	340	353	358	355	344	328	309			
45	267	281	304	323	335	337	331	315	301	316	330	337	334	322	305	284			
50	237	255	281	300	313	315	306	288	271	287	305	312	310	298	280	257			
55	207	226	254	275	289	290	279	257	238	257	276	286	285	272	253	228			
60	174	197	226	249	262	262	250	225	203	223	245	258	257	245	224	198			
65	141	165	196	220	234	233	218	190	165	188	212	227	227	215	193	166			
70	107	133	166	191	204	202	184	153	125	150	178	194	197	184	162	132			
75	72.3	99.9	134	160	173	170	150	116	84.4	111	142	161	165	153	129	99.1			
80	39.2	68.5	104	130	143	138	116	79.0	45.4	73.8	107	128	134	122	98.6	67.6			
85	12.5	42.0	78.0	105	118	112	87.7	48.7	14.1	43.7	79.1	102	109	97.5	73.3	41.3			
90	0.14	28.8	64.5	91.1	104	97.7	74.2	35.9	0.07	31.6	68.0	91.4	98.1	86.4	61.7	28.4			
95	0.13	28.2	63.1	88.7	101	95.4	72.8	35.2	0.08	30.7	66.5	89.5	95.8	84.6	60.4	27.6			
100	0.15	27.2	61.1	86.3	98.1	92.6	70.5	34.0	0.09	29.3	64.2	86.5	92.8	81.8	58.5	26.5			
105	0.17	25.7	58.6	82.8	94.1	88.8	67.6	31.9	0.11	27.4	61.3	82.8	88.8	78.5	55.9	25.1			
110	0.17	21.8	55.7	79.0	89.7	84.4	64.0	27.4	0.13	23.2	57.8	78.3	84.1	74.4	53.0	21.8			
115	0.18	18.2	52.2	74.3	84.3	79.4	59.3	23.3	0.16	19.7	53.9	73.4	78.8	69.9	49.7	17.6			
120	0.20	16.4	46.7	69.2	78.5	73.6	53.0	21.3	0.19	17.7	48.1	67.9	73.1	64.9	44.7	15.9			
125	0.23	15.0	39.6	62.4	71.5	66.3	45.1	19.1	0.21	15.7	40.4	61.2	66.8	58.7	37.8	14.2			
130	0.27	13.3	33.3	53.4	62.4	56.6	37.8	16.8	0.24	13.4	33.8	52.2	58.2	50.4	31.1	12.5			
135	0.33	11.4	29.3	44.2	51.7	46.7	33.2	14.4	0.27	10.9	29.3	42.3	48.1	41.0	27.4	10.7			
140	0.40	9.21	25.4	37.3	42.4	39.4	28.8	11.8	0.30	8.12	24.7	35.6	39.1	34.8	24.0	9.03			
145	0.49	7.12	21.5	31.7	36.2	33.7	24.2	9.38	0.33	4.88	19.3	29.5	33.2	29.9	20.8	7.83			
150	0.58	5.04	17.3	26.1	29.9	27.6	19.5	6.81	0.36	1.62	13.6	23.0	27.0	25.0	17.7	6.91			
155	0.64	3.18	12.7	20.4	23.4	21.4	14.2	4.33	0.41	0.41	7.84	16.2	20.5	19.8	14.5	6.01			
160	0.67	1.45	8.45	14.1	16.6	14.7	9.51	2.12	0.44	0.44	2.88	9.59	13.8	14.1	10.7	4.62			
165	0.68	0.68	4.33	8.27	9.94	8.67	4.97	0.71	0.46	0.46	0.45	4.05	7.39	8.14	6.21	2.32			
170	0.66	0.67	0.91	2.92	3.79	3.15	1.15	0.69	0.48	0.48	0.47	0.50	2.01	2.61	1.75	0.47			
175	0.62	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.52	0.52	0.51	0.51	0.51	0.50	0.51	0.52			
180	0.58	0.57	0.58	0.57	0.59	0.58	0.58	0.59	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.58			

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