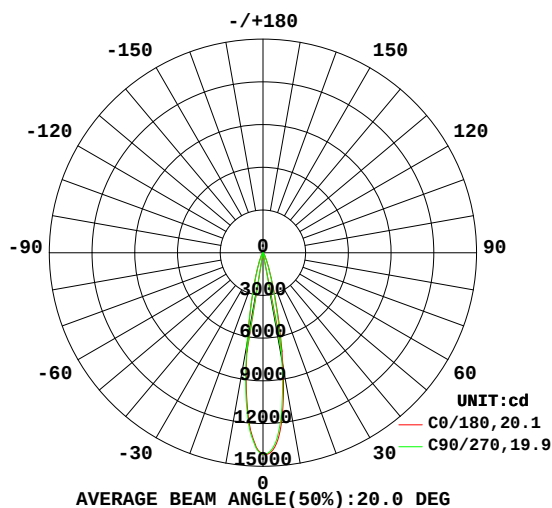


LUMINAIRE PHOTOMETRIC TEST REPORT

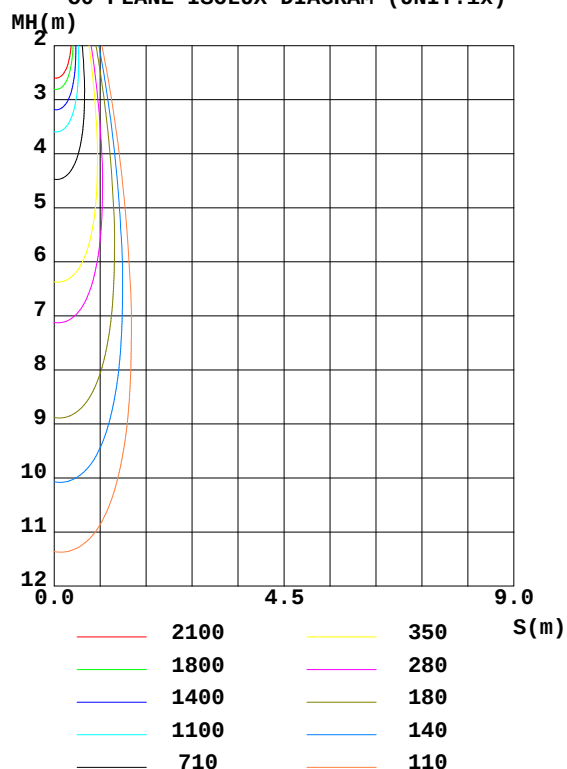
NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.86 lm/W			
MODEL		Imax(cd)	14194	S/MH(C0/180)	0.32
NOMINAL POWER(W)	28	LOR(%)	85.4	S/MH(C90/270)	0.33
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2320.4	η UP, DN(C0-180)	1.0, 44.4
NOMINAL FLUX(lm)	2716.98	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.1, 38.9
LAMPS INSIDE	1	η up(%)	2.1	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	η down(%)	83.3	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: MEDIUM
Temperature:28DEG
Operators:cjy
Test Date:2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

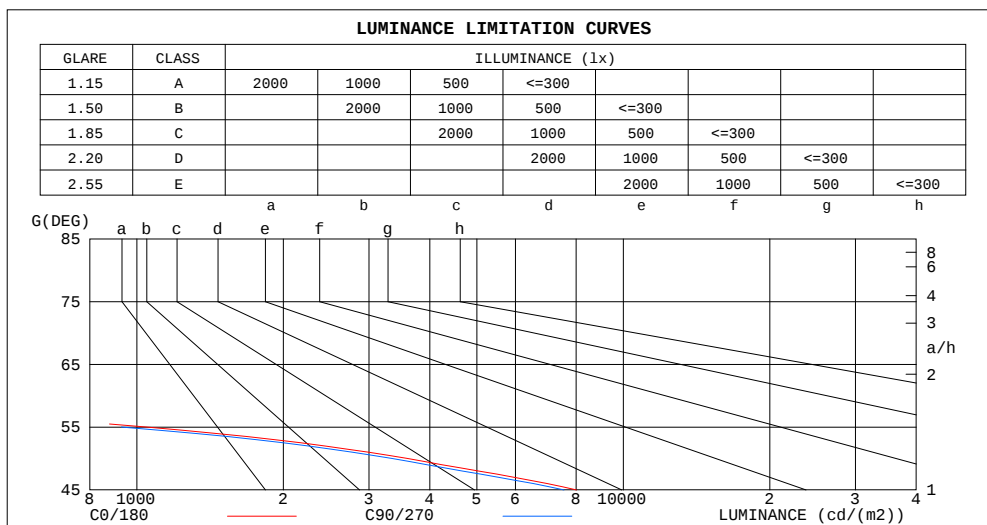
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	809.2	812.8	763.8	698.6	631.9	611.2	647.2	728.6	0- 10	1000	1000	43.1, 36.8
20	131.6	131.8	123.8	117.0	106.9	100.4	103.8	117.3	10- 20	858.1	1858	80.1, 68.4
30	29.89	30.03	29.09	27.92	26.34	25.64	26.39	28.19	20- 30	264.4	2123	91.5, 78.1
40	9.020	8.961	8.643	8.347	8.104	8.089	8.261	8.571	30- 40	99.87	2222	95.8, 81.8
50	1.918	1.911	1.790	1.654	1.569	1.592	1.669	1.788	40- 50	34.89	2257	97.3, 83.1
60	0.0534	0.0591	0.0498	0.0393	0.0361	0.0274	0.0296	0.0346	50- 60	5.050	2262	97.5, 83.3
70	0.0318	0.0311	0.0315	0.0312	0.0286	0.0275	0.0280	0.0271	60- 70	0.3028	2263	97.5, 83.3
80	0.0363	0.0344	0.0356	0.0350	0.0319	0.0298	0.0318	0.0294	70- 80	0.3283	2263	97.5, 83.3
90	0.0407	0.0395	0.0400	0.0392	0.0418	0.0397	0.0411	0.0385	80- 90	0.3916	2263	97.5, 83.3
100	0.0508	0.0505	0.0510	0.0511	0.0579	0.0559	0.0566	0.0538	90-100	0.5005	2264	97.6, 83.3
110	0.0752	0.0748	0.0762	0.0763	0.0826	0.0813	0.0816	0.0795	100-110	0.6788	2265	97.6, 83.4
120	0.1545	0.1512	0.1539	0.1616	0.1740	0.1728	0.1684	0.1630	110-120	1.095	2266	97.6, 83.4
130	0.5080	0.4911	0.5105	0.5580	0.6450	0.6442	0.6144	0.5733	120-130	2.782	2268	97.8, 83.5
140	1.680	1.657	1.708	1.803	1.958	1.970	1.915	1.822	130-140	8.571	2277	98.1, 83.8
150	3.051	3.043	3.082	3.132	3.219	3.230	3.205	3.138	140-150	15.73	2293	98.8, 84.4
160	3.526	3.531	3.596	3.583	3.618	3.611	3.634	3.534	150-160	15.83	2309	99.5, 85
170	2.755	2.767	2.842	2.780	2.771	2.749	2.799	2.697	160-170	9.471	2318	99.9, 85.3
180	1.980	1.983	1.906	1.966	1.982	1.984	1.906	1.965	170-180	2.270	2320	100, 85.4
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:cjy
Test Date:2020-08-26

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	529	520
80	252	246
75	159	153
70	112	110
65	92	90
60	129	119
55	1046	929
50	3596	3342
45	8011	7551

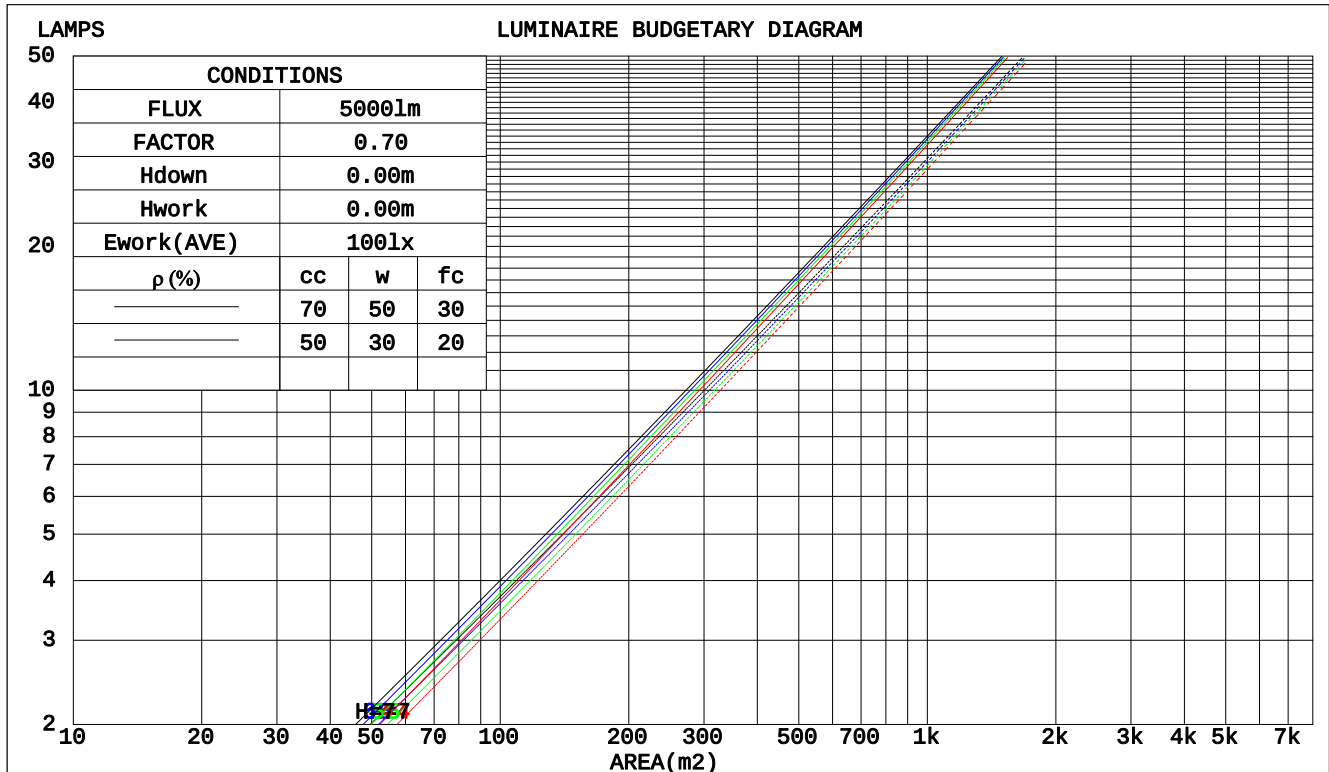
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: cjy
 Test Date: 2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.190m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	1.01	1.01	1.01	.99	.99	.99	.94	.94	.94	.89	.89	.89	.85	.85	.85	.83
1.0	.96	.94	.93	.94	.93	.91	.90	.89	.88	.87	.86	.85	.84	.83	.82	.81
2.0	.92	.89	.87	.90	.88	.86	.87	.85	.84	.84	.83	.82	.82	.81	.80	.78
3.0	.88	.85	.82	.87	.84	.82	.84	.82	.80	.82	.80	.79	.80	.79	.77	.76
4.0	.85	.81	.79	.84	.81	.78	.82	.79	.77	.80	.78	.76	.78	.76	.75	.74
5.0	.82	.78	.76	.81	.78	.75	.79	.77	.75	.78	.75	.74	.76	.74	.73	.72
6.0	.79	.76	.73	.78	.75	.73	.77	.74	.72	.76	.73	.72	.75	.73	.71	.70
7.0	.77	.73	.71	.76	.73	.71	.75	.72	.70	.74	.71	.70	.73	.71	.69	.68
8.0	.75	.71	.69	.74	.71	.69	.73	.70	.68	.72	.70	.68	.71	.69	.68	.67
9.0	.73	.69	.67	.72	.69	.67	.71	.69	.67	.71	.68	.66	.70	.68	.66	.65
10.0	.71	.68	.65	.70	.67	.65	.70	.67	.65	.69	.67	.65	.68	.66	.65	.64



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:cjy
 Test Date:2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.115	.065	.021	.109	.062	.020	.097	.056	.018	.086	.050	.016	.076	.044	.014		
2.0	.106	.058	.018	.101	.056	.017	.091	.051	.016	.082	.046	.014	.074	.042	.013		
3.0	.099	.052	.016	.094	.050	.015	.086	.047	.014	.078	.043	.013	.071	.039	.012		
4.0	.092	.048	.014	.088	.046	.014	.081	.043	.013	.075	.040	.012	.069	.037	.011		
5.0	.087	.044	.013	.083	.043	.012	.077	.040	.012	.072	.038	.011	.066	.035	.011		
6.0	.082	.041	.012	.079	.040	.011	.074	.038	.011	.069	.036	.010	.064	.034	.010		
7.0	.077	.038	.011	.075	.037	.011	.070	.035	.010	.066	.034	.010	.062	.032	.009		
8.0	.073	.036	.010	.071	.035	.010	.067	.034	.010	.063	.032	.009	.060	.031	.009		
9.0	.070	.034	.009	.068	.033	.009	.064	.032	.009	.061	.031	.009	.058	.029	.008		
10.0	.067	.032	.009	.065	.031	.009	.062	.030	.009	.059	.029	.008	.056	.028	.008		

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	.179	.179	.179	.153	.153	.153	.104	.104	.104	.060	.060	.060	.019	.019	.019	
1.0	.160	.151	.143	.137	.129	.123	.093	.089	.085	.054	.052	.049	.017	.017	.016	
2.0	.144	.130	.117	.124	.112	.101	.085	.077	.071	.049	.045	.041	.016	.015	.013	
3.0	.131	.113	.098	.113	.097	.085	.077	.068	.060	.045	.040	.035	.014	.013	.012	
4.0	.121	.100	.084	.103	.086	.073	.071	.060	.051	.041	.035	.030	.013	.011	.010	
5.0	.112	.089	.073	.096	.077	.064	.066	.054	.045	.038	.032	.027	.012	.010	.009	
6.0	.104	.081	.064	.089	.070	.056	.062	.049	.040	.036	.029	.024	.012	.009	.008	
7.0	.097	.074	.057	.084	.064	.050	.058	.045	.036	.034	.026	.021	.011	.009	.007	
8.0	.092	.068	.052	.079	.059	.045	.055	.041	.032	.032	.024	.019	.010	.008	.006	
9.0	.087	.063	.047	.075	.055	.041	.052	.039	.029	.030	.023	.017	.010	.007	.006	
10.0	.082	.059	.044	.071	.051	.038	.049	.036	.027	.029	.021	.016	.009	.007	.005	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:cjy
Test Date:2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: VM090						TYPE:					WEIGHT:1				
SPEC.:BR 3000K 28W 90CRI 15D						DIM.:					SERIAL No.:				
MFR.:						SUR.:					Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	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	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	0.2	0.2	0.2	0.2	0.2
Room dimensions						Viewed crosswise					Viewed endwise				
x = 2H y = 2H	6.6	7.2	6.8	7.4	7.5	6.4	7.0	6.6	7.2	7.4	6.4	7.0	6.6	7.2	7.4
3H	6.4	7.0	6.7	7.2	7.4	6.2	6.8	6.5	7.0	7.3	6.2	6.8	6.5	7.0	7.3
4H	6.3	6.9	6.6	7.1	7.4	6.1	6.7	6.4	6.9	7.2	6.1	6.7	6.4	6.9	7.2
6H	6.2	6.7	6.5	7.0	7.3	6.1	6.6	6.4	6.8	7.1	6.1	6.6	6.4	6.8	7.1
8H	6.2	6.7	6.5	7.0	7.3	6.0	6.5	6.3	6.8	7.1	6.0	6.5	6.3	6.8	7.1
12H	6.1	6.6	6.5	6.9	7.2	6.0	6.5	6.3	6.8	7.1	6.0	6.5	6.3	6.8	7.1
4H 2H	6.3	6.9	6.6	7.1	7.4	6.2	6.7	6.4	6.9	7.2	6.2	6.7	6.4	6.9	7.2
3H	6.1	6.6	6.5	6.9	7.2	6.0	6.5	6.3	6.7	7.1	6.0	6.5	6.3	6.7	7.1
4H	6.0	6.5	6.4	6.8	7.2	5.9	6.3	6.2	6.6	7.0	5.9	6.3	6.2	6.6	7.0
6H	5.9	6.3	6.3	6.7	7.1	5.8	6.2	6.2	6.5	6.9	5.8	6.2	6.2	6.5	6.9
8H	5.9	6.2	6.3	6.6	7.0	5.7	6.1	6.1	6.5	6.9	5.7	6.1	6.1	6.5	6.9
12H	5.8	6.2	6.3	6.6	7.0	5.7	6.0	6.1	6.4	6.8	5.7	6.0	6.1	6.4	6.8
8H 4H	5.9	6.2	6.3	6.6	7.0	5.7	6.1	6.1	6.5	6.9	5.7	6.1	6.1	6.5	6.9
6H	5.8	6.1	6.2	6.5	7.0	5.6	5.9	6.1	6.3	6.8	5.6	5.9	6.1	6.3	6.8
8H	5.7	6.0	6.2	6.4	6.9	5.5	5.8	6.0	6.3	6.7	5.5	5.8	6.0	6.3	6.7
12H	5.6	5.9	6.2	6.4	6.9	5.5	5.7	6.0	6.2	6.7	5.5	5.7	6.0	6.2	6.7
12H 4H	5.8	6.1	6.3	6.6	7.0	5.6	6.0	6.1	6.4	6.8	5.6	6.0	6.1	6.4	6.8
6H	5.7	6.0	6.2	6.4	6.9	5.5	5.8	6.0	6.3	6.7	5.5	5.8	6.0	6.3	6.7
8H	5.6	5.9	6.1	6.3	6.9	5.5	5.7	6.0	6.2	6.7	5.5	5.7	6.0	6.2	6.7
Variations with the observer position at spacings:															
S = 1.0H	+ 2.9 / -15.2					+ 2.8 / -15.5									
1.5H	+ 4.6 / -11.7					+ 4.5 / -11.7									
2.0H	+ 6.7 / -12.6					+ 6.6 / -12.4									

CIE Pub.117, 2717 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.5$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:cjy
Test Date:2020-08-26

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

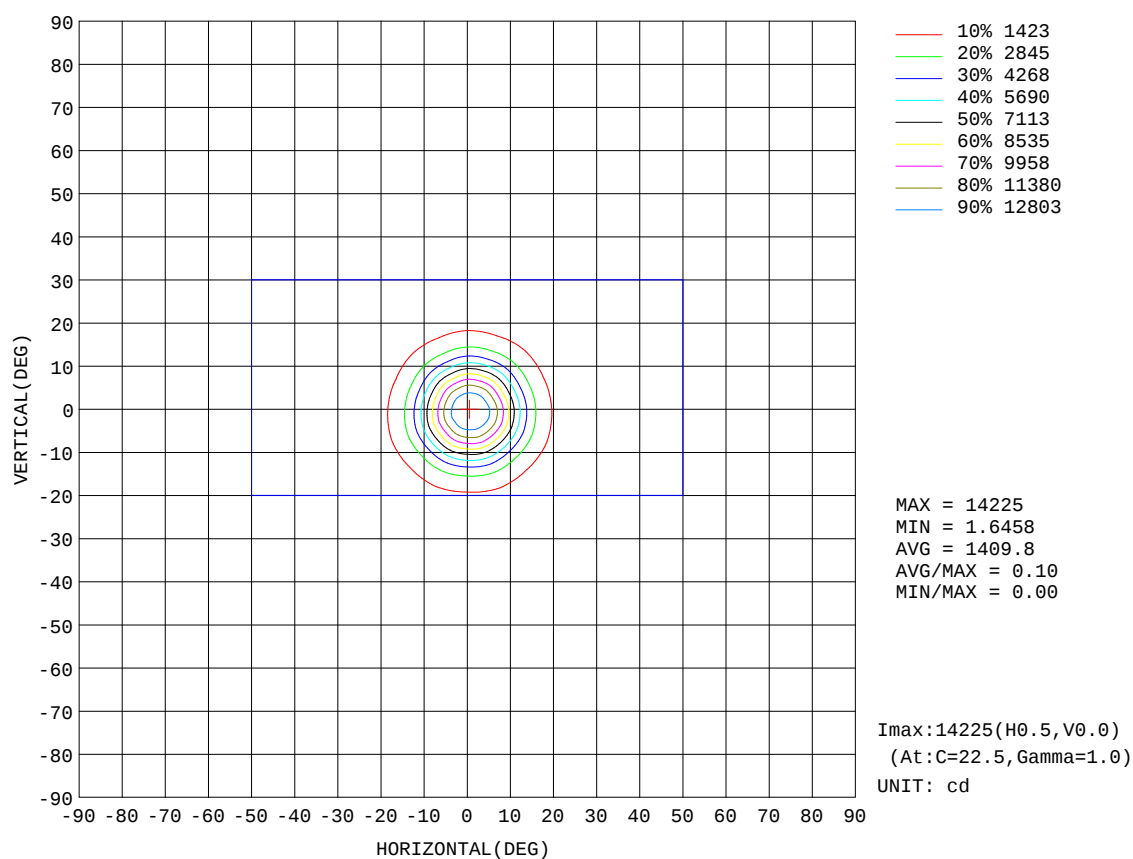
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	76	71	68	75	71	68	75	70	68	65
0.80	82	77	74	81	77	74	80	76	74	71
1.00	85	81	78	85	81	78	83	80	77	74
1.25	89	84	82	88	84	81	86	83	80	77
1.50	91	87	84	90	86	84	87	85	83	79
2.00	93	89	87	91	88	86	89	86	85	80
2.50	94	91	89	93	90	88	90	88	86	80
3.00	95	93	90	94	91	89	90	89	87	81
4.00	97	95	93	95	93	92	92	90	89	82
5.00	98	96	95	96	94	93	92	91	90	83
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: MEDIUM
 Temperature:28DEG
 Operators:cjy
 Test Date:2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

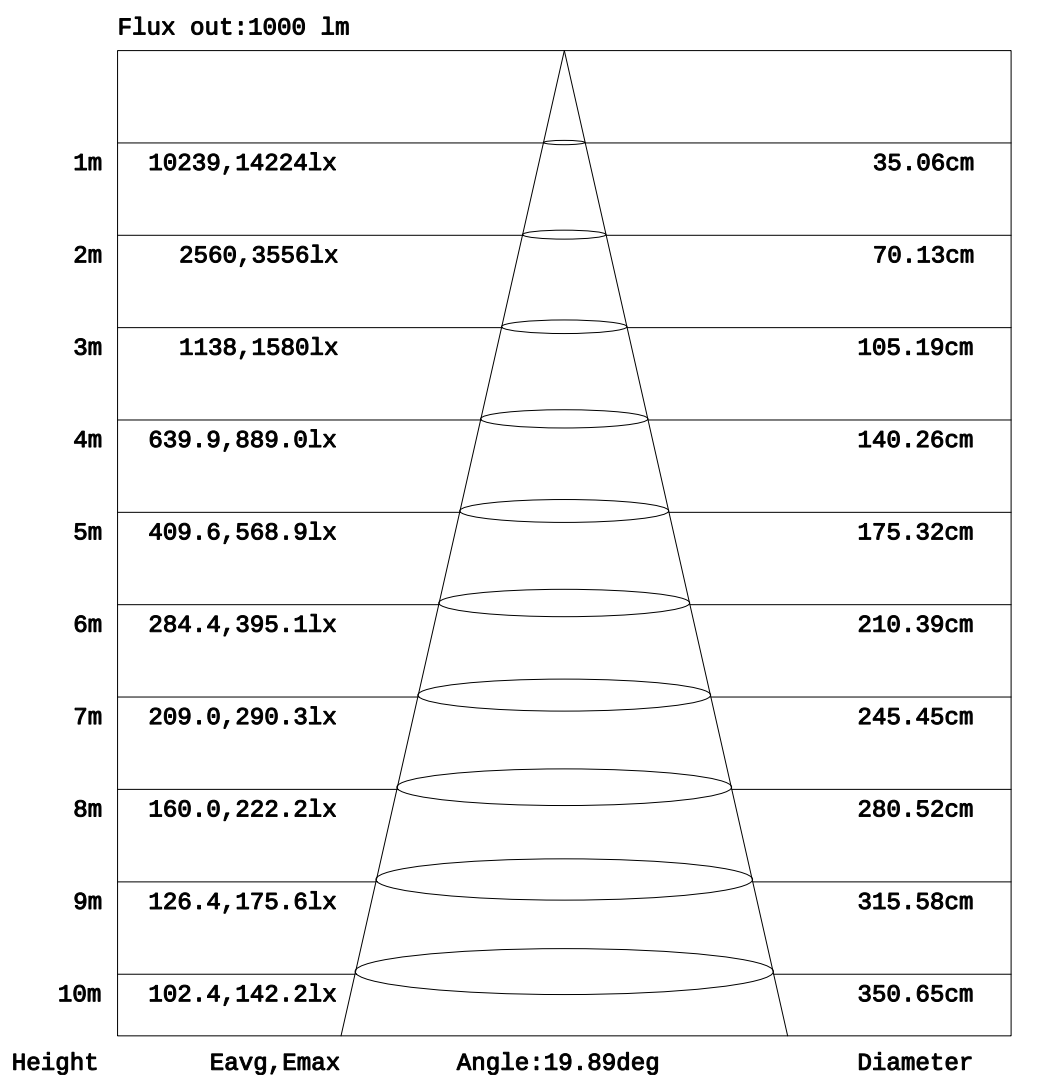


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:cjy
 Test Date:2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

AAI Figure

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



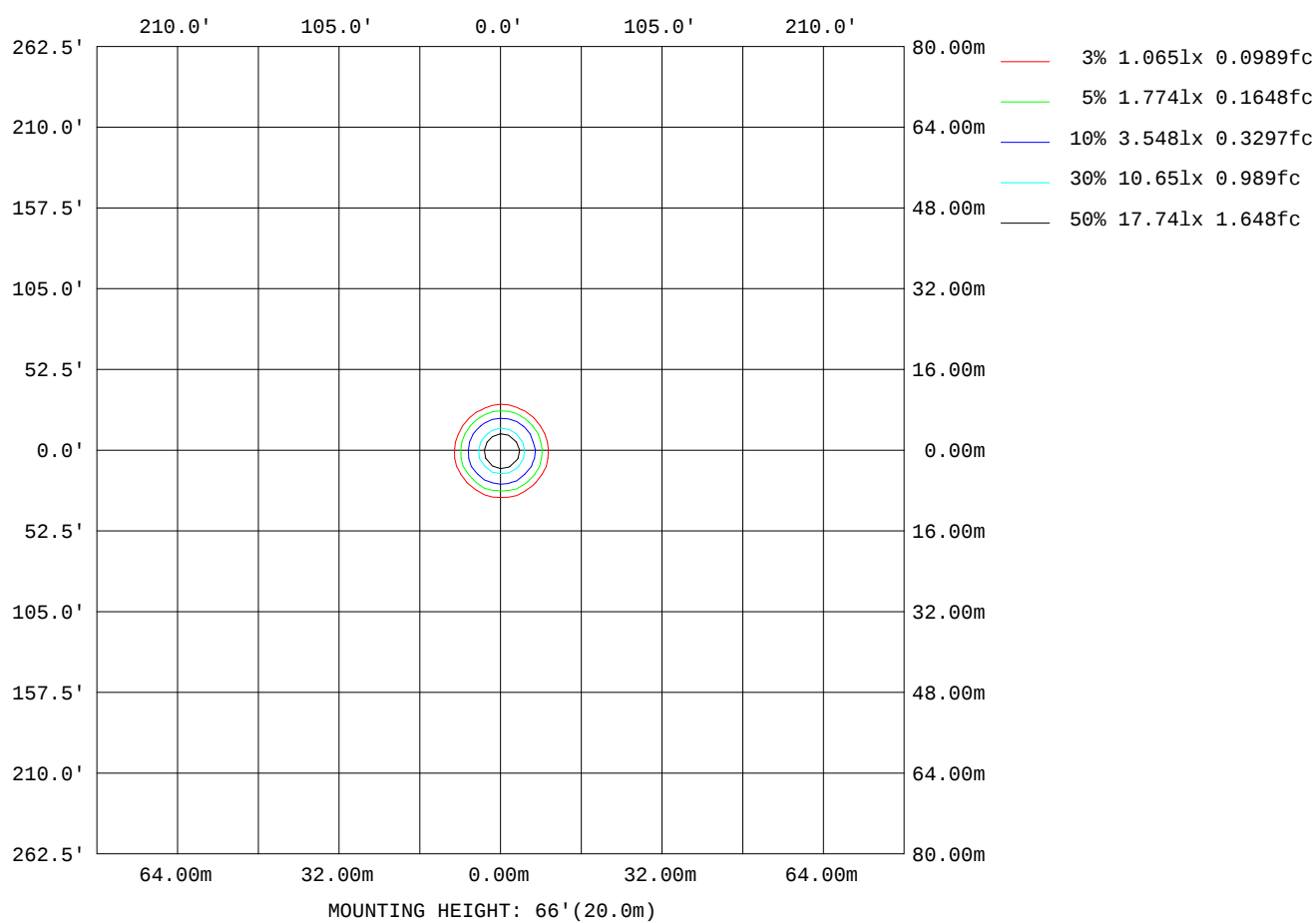
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: cjy
 Test Date: 2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.190m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: cjl
Test Date: 2020-08-26

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

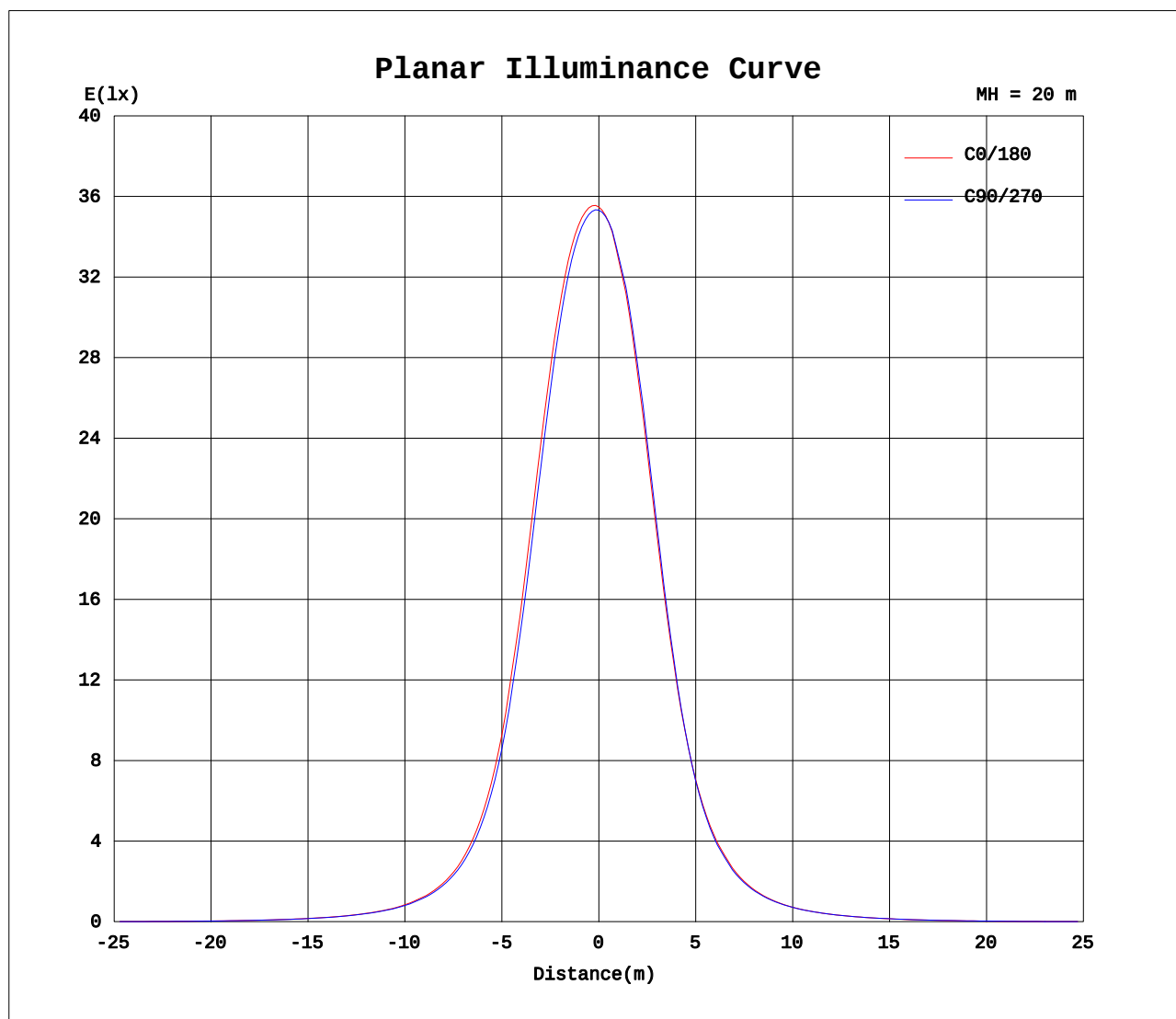
AvgL	cd/m2
L_0~180(65)av	90
L_0~180(75)av	148
L_0~180(85)av	511
L_90~270(65)av	84
L_90~270(75)av	144
L_90~270(85)av	504
L_45(65)av	83
L_45(75)av	139
L_45(85)av	485

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: cjy
 Test Date: 2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_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: MEDIUM
Temperature: 28DEG
Operators: cjl
Test Date: 2020-08-26

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VM090	TYPE:	WEIGHT:1
SPEC.:BR 3000K 28W 90CRI 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C(°)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
γ (°)	0	1414	1414	1414	1414	1414	1414	1414	1414	1414	1414	1414	1414	1414	1414	1414			
5	1290	1300	1294	1285	1263	1250	1216	1206	1170	1151	1161	1161	1191	1207	1243	1256			
10	809	836	813	809	764	748	699	682	632	606	611	610	647	673	729	753			
15	338	353	337	338	313	310	287	283	258	239	242	236	255	264	296	306			
20	132	140	132	134	124	124	117	116	107	99.8	100	97.9	104	106	117	121			
25	59.6	61.0	59.9	59.4	57.2	56.3	54.3	53.6	49.7	47.4	47.7	47.0	49.3	50.2	53.9	55.9			
30	29.9	30.8	30.0	30.3	29.1	29.0	27.9	27.9	26.3	25.4	25.6	25.3	26.4	26.7	28.2	28.5			
35	16.2	16.7	16.3	16.4	15.7	15.7	15.2	15.3	14.7	14.2	14.5	14.2	14.8	14.7	15.4	15.5			
40	9.02	9.22	8.96	9.01	8.64	8.62	8.35	8.42	8.10	7.96	8.09	8.00	8.26	8.28	8.57	8.64			
45	4.70	4.82	4.67	4.70	4.45	4.43	4.23	4.26	4.08	4.00	4.12	4.09	4.27	4.27	4.48	4.49			
50	1.92	1.99	1.91	1.93	1.79	1.78	1.65	1.65	1.57	1.53	1.59	1.58	1.67	1.67	1.79	1.79			
55	0.50	0.54	0.52	0.51	0.44	0.45	0.38	0.40	0.32	0.30	0.35	0.33	0.38	0.36	0.42	0.44			
60	0.05	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04			
65	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
70	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
75	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
80	0.04	0.04	0.03	0.04	0.04	0.04	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
85	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.03	0.03			
90	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
95	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05			
100	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05			
105	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06			
110	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
115	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11			
120	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.17	0.18	0.17	0.18	0.17	0.17	0.16	0.16			
125	0.26	0.26	0.26	0.25	0.26	0.27	0.28	0.29	0.32	0.33	0.32	0.32	0.31	0.30	0.29	0.29			
130	0.51	0.49	0.49	0.48	0.51	0.52	0.56	0.57	0.65	0.66	0.64	0.64	0.61	0.61	0.57	0.57			
135	0.98	0.95	0.96	0.95	1.00	1.02	1.08	1.10	1.22	1.25	1.22	1.22	1.17	1.16	1.10	1.10			
140	1.68	1.64	1.66	1.65	1.71	1.73	1.80	1.82	1.96	2.00	1.97	1.98	1.91	1.89	1.82	1.82			
145	2.44	2.40	2.42	2.42	2.47	2.49	2.55	2.57	2.69	2.72	2.70	2.71	2.66	2.63	2.57	2.56			
150	3.05	3.03	3.04	3.04	3.08	3.09	3.13	3.14	3.22	3.24	3.23	3.24	3.20	3.18	3.14	3.12			
155	3.41	3.40	3.41	3.43	3.45	3.46	3.47	3.47	3.52	3.53	3.53	3.54	3.52	3.50	3.46	3.44			
160	3.53	3.51	3.53	3.57	3.60	3.60	3.58	3.57	3.62	3.61	3.61	3.63	3.63	3.59	3.53	3.52			
165	3.32	3.31	3.31	3.42	3.46	3.44	3.35	3.36	3.42	3.35	3.36	3.41	3.44	3.35	3.27	3.25			
170	2.75	2.78	2.77	2.83	2.84	2.82	2.78	2.79	2.77	2.77	2.75	2.77	2.80	2.74	2.70	2.67			
175	2.17	2.20	2.24	2.22	2.19	2.21	2.23	2.18	2.19	2.19	2.18	2.12	2.10	2.13	2.15	2.10			
180	1.98	1.98	1.98	1.90	1.91	1.89	1.97	1.90	1.98	1.98	1.98	1.90	1.91	1.89	1.97	1.90			

C Range: 0 - 360DEG
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