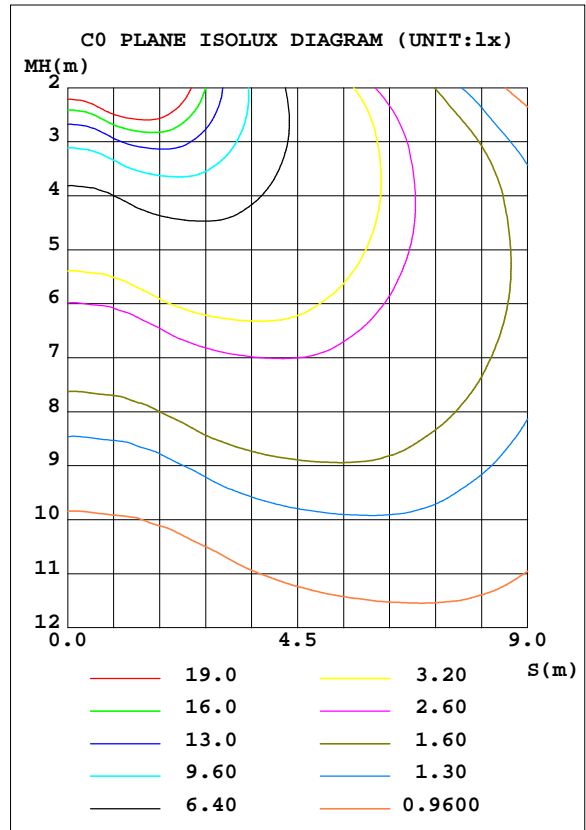
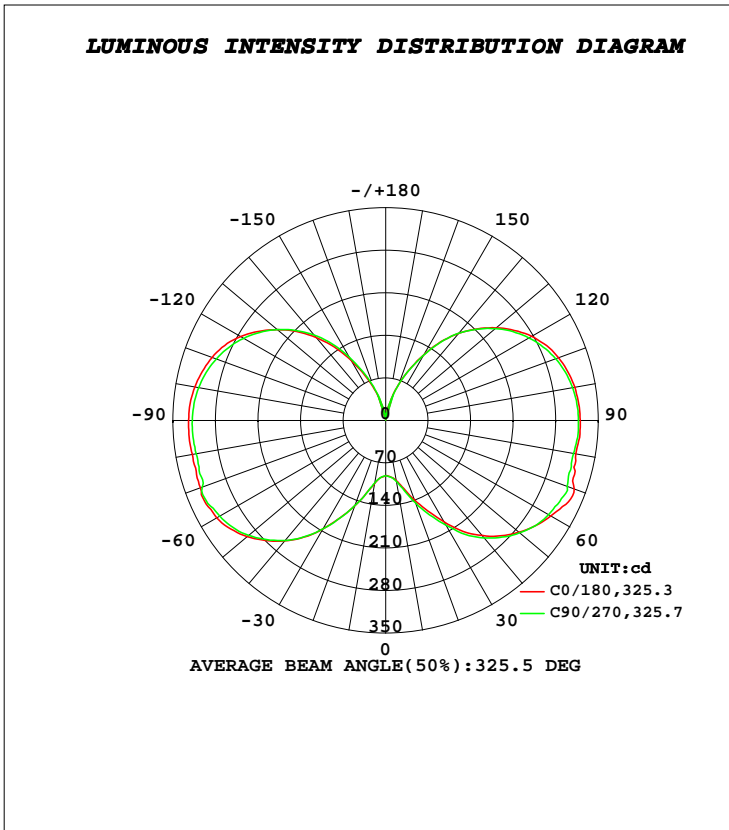


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.79 lm/W			
MODEL	91577	I _{max} (cd)	354.9	S/MH(C0/180)	3.13
NOMINAL POWER(W)	27	LOR(%)	100.0	S/MH(C90/270)	3.13
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3358.0	η UP, DN(C0-180)	23.3,26.9
NOMINAL FLUX(lm)	3358.02	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	22.9,27.0
LAMPS INSIDE	1	η up(%)	46.1	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	120	η down(%)	53.9	CIBSE SHR MAX	2.00



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

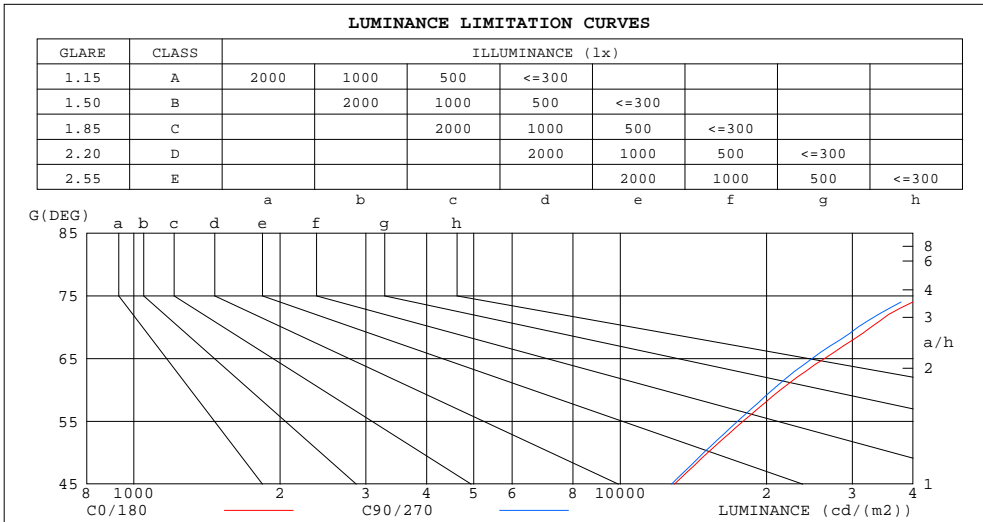
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	100.6	100.6	101.7	103.4	105.2	105.1	104.2	102.4	0- 10	9.235	9.235	0.28,0.28
20	139.5	141.2	145.0	147.4	149.2	150.2	149.4	143.2	10- 20	35.28	44.51	1.33,1.33
30	192.7	196.0	198.9	203.4	205.9	208.3	206.0	202.1	20- 30	80.65	125.2	3.73,3.73
40	247.3	253.2	252.6	259.1	258.7	262.6	257.8	252.6	30- 40	145.4	270.6	8.06,8.06
50	286.2	298.5	287.9	299.5	297.3	307.4	294.3	293.0	40- 50	215.1	485.7	14.5,14.5
60	314.0	332.7	309.8	326.9	320.9	337.4	315.3	321.0	50- 60	279.8	765.4	22.8,22.8
70	330.1	351.2	317.8	337.7	324.6	351.1	321.0	333.6	60- 70	329.7	1095	32.6,32.6
80	317.8	342.0	313.7	335.9	322.9	344.9	316.6	334.3	70- 80	351.1	1446	43.1,43.1
90	320.1	343.2	317.2	339.3	324.6	347.1	318.3	336.0	80- 90	362.4	1809	53.9,53.9
100	315.9	338.5	312.4	333.0	318.9	339.1	312.5	330.1	90-100	360.8	2169	64.6,64.6
110	302.8	324.7	297.6	315.0	304.1	318.7	296.7	311.7	100-110	338.3	2508	74.7,74.7
120	277.2	297.1	272.2	286.9	276.2	285.9	270.4	282.8	110-120	295.9	2804	83.5,83.5
130	237.2	251.5	235.5	245.0	232.7	239.2	232.7	243.2	120-130	236.3	3040	90.5,90.5
140	187.0	193.8	187.8	184.4	178.5	181.5	183.9	188.2	130-140	166.5	3207	95.5,95.5
150	124.3	127.9	123.1	116.3	114.4	115.5	120.4	122.5	140-150	97.78	3304	98.4,98.4
160	63.03	65.98	63.40	57.92	54.59	55.05	59.40	61.70	150-160	42.09	3346	99.7,99.7
170	17.78	18.18	16.67	14.87	13.03	12.77	14.36	16.13	160-170	10.75	3357	100,100
180	3.831	3.831	3.849	3.853	3.857	3.849	3.867	3.861	170-180	0.8889	3358	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	125046	120777
80	62289	59988
75	42430	40404
70	32845	30848
65	26336	24833
60	21376	20571
55	17905	17445
50	15155	14869
45	12921	12753

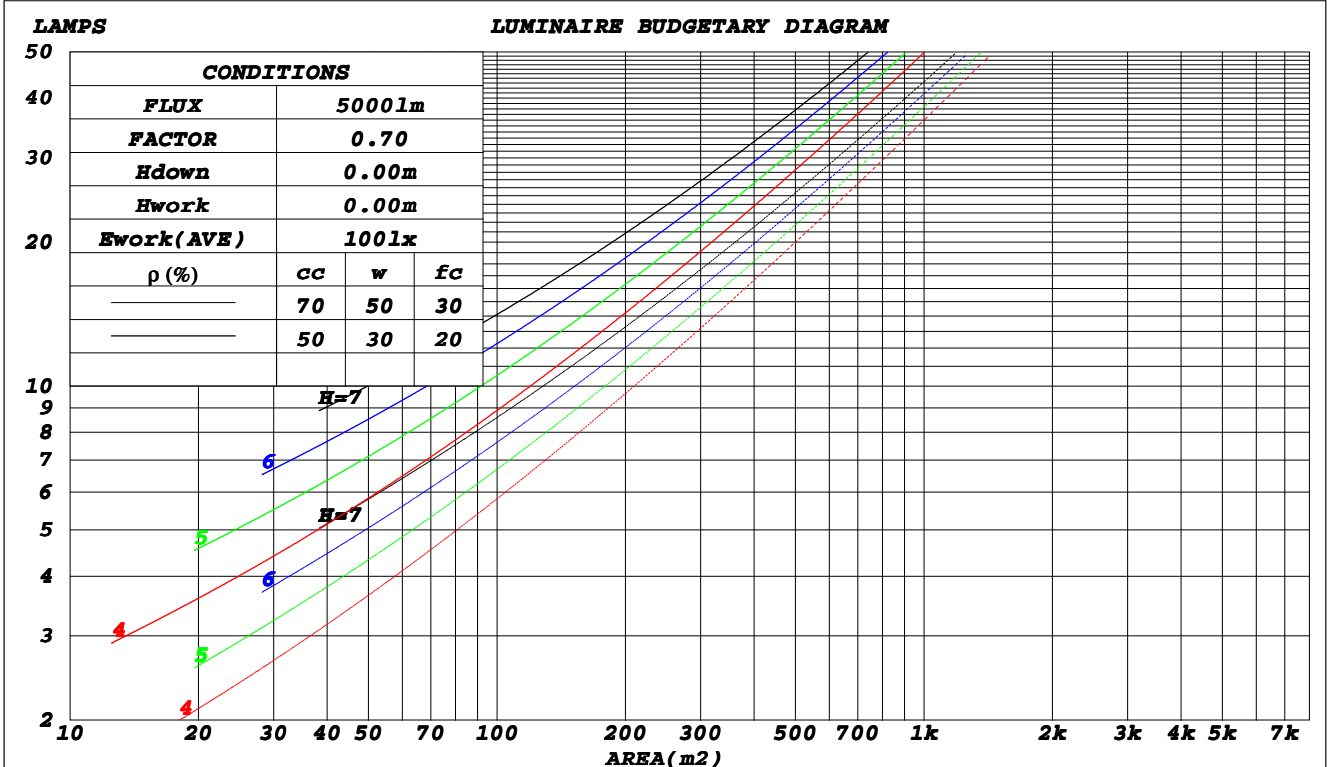
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LIU
Test Date: 2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding 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						Coefficients of Utilization(CU)									
0.0	1.08	1.08	1.08	1.00	1.00	1.00	.85	.85	.85	.72	.72	.72	.60	.60	.60	.54
1.0	.86	.80	.75	.79	.74	.69	.67	.62	.59	.55	.52	.49	.44	.42	.39	.34
2.0	.72	.64	.57	.66	.59	.52	.55	.49	.44	.45	.40	.36	.35	.32	.29	.24
3.0	.62	.52	.45	.57	.48	.41	.47	.40	.35	.38	.33	.28	.30	.26	.22	.18
4.0	.53	.44	.36	.49	.40	.33	.41	.34	.28	.33	.27	.23	.25	.21	.18	.14
5.0	.47	.37	.30	.43	.34	.28	.36	.28	.23	.29	.23	.19	.22	.18	.14	.11
6.0	.41	.32	.25	.38	.29	.23	.31	.25	.19	.25	.20	.16	.20	.15	.12	.09
7.0	.37	.28	.21	.34	.26	.20	.28	.21	.16	.23	.17	.13	.18	.13	.10	.07
8.0	.33	.24	.18	.31	.23	.17	.25	.19	.14	.21	.15	.11	.16	.12	.09	.06
9.0	.30	.22	.16	.28	.20	.15	.23	.17	.12	.19	.14	.10	.15	.11	.07	.05
10.0	.27	.19	.14	.25	.18	.13	.21	.15	.11	.17	.12	.09	.14	.09	.07	.04



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LIU
 Test Date: 2017-11-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 7.310m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	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	.433	.246	.078	.412	.235	.075	.372	.213	.068	.335	.193	.062	.301	.175	.056	
2.0	.359	.197	.060	.340	.187	.058	.303	.169	.052	.269	.151	.047	.238	.135	.042	
3.0	.311	.166	.050	.294	.157	.047	.260	.141	.043	.229	.126	.039	.201	.111	.034	
4.0	.276	.143	.042	.260	.136	.040	.229	.122	.036	.201	.108	.033	.174	.095	.029	
5.0	.248	.127	.037	.233	.120	.035	.205	.107	.031	.179	.094	.028	.154	.083	.025	
6.0	.226	.113	.032	.212	.107	.031	.186	.095	.028	.162	.084	.025	.139	.073	.022	
7.0	.207	.102	.029	.194	.097	.028	.170	.086	.025	.148	.076	.022	.126	.066	.019	
8.0	.191	.093	.026	.179	.088	.025	.157	.078	.022	.136	.069	.020	.116	.060	.017	
9.0	.177	.086	.024	.166	.081	.023	.145	.072	.020	.126	.063	.018	.107	.055	.016	
10.0	.165	.079	.022	.155	.075	.021	.136	.066	.019	.117	.058	.017	.100	.050	.014	

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	.542	.542	.542	.463	.463	.463	.316	.316	.316	.182	.182	.182	.058	.058	.058	
1.0	.543	.509	.479	.465	.437	.412	.318	.301	.285	.183	.174	.166	.059	.056	.054	
2.0	.538	.488	.447	.461	.420	.386	.316	.291	.269	.182	.169	.158	.058	.055	.051	
3.0	.531	.473	.427	.455	.408	.370	.313	.284	.260	.181	.166	.153	.058	.054	.050	
4.0	.524	.462	.415	.449	.399	.360	.309	.278	.254	.179	.163	.150	.058	.053	.049	
5.0	.516	.453	.406	.443	.392	.353	.305	.274	.249	.177	.161	.148	.057	.052	.049	
6.0	.509	.446	.400	.437	.386	.348	.302	.270	.246	.175	.159	.147	.056	.052	.048	
7.0	.502	.439	.396	.432	.381	.345	.298	.267	.244	.173	.157	.145	.056	.052	.048	
8.0	.495	.434	.392	.426	.377	.342	.295	.264	.243	.172	.156	.145	.056	.051	.048	
9.0	.489	.430	.390	.421	.373	.340	.292	.262	.241	.170	.155	.144	.055	.051	.048	
10.0	.483	.426	.388	.417	.370	.338	.289	.260	.240	.169	.154	.143	.055	.051	.048	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LIU
 Test Date:2017-11-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.310m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm										
NAME: LED 27WT30/360°/CL/50K/MED/V5					TYPE:360° HIGH WATTAGE			WEIGHT:		
SPEC.:					DIM.: 95*185			SERIAL No.:1		
MFR.: P.Q.L., Inc.					SUR.:95*80			Shielding 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	16.3	17.4	17.1	18.3	19.4	16.0	17.2	16.9	18.1	19.2
3H	19.7	20.8	20.6	21.7	22.8	19.4	20.4	20.2	21.3	22.5
4H	21.5	22.5	22.4	23.4	24.6	21.2	22.2	22.0	23.1	24.2
6H	23.5	24.4	24.4	25.3	26.5	23.1	24.1	24.0	25.0	26.2
8H	24.6	25.5	25.5	26.4	27.6	24.3	25.2	25.2	26.1	27.3
12H	25.8	26.7	26.7	27.6	28.8	25.6	26.4	26.5	27.4	28.5
4H 2H	17.4	18.4	18.3	19.3	20.5	17.2	18.2	18.1	19.1	20.3
3H	20.9	21.8	21.8	22.7	23.9	20.7	21.5	21.6	22.5	23.6
4H	22.8	23.6	23.8	24.6	25.8	22.5	23.3	23.5	24.3	25.5
6H	24.9	25.7	25.9	26.6	27.9	24.6	25.4	25.6	26.3	27.6
8H	26.1	26.8	27.1	27.8	29.0	25.8	26.5	26.8	27.5	28.7
12H	27.5	28.1	28.4	29.1	30.3	27.2	27.8	28.2	28.8	30.1
8H 4H	23.6	24.2	24.5	25.2	26.4	23.3	24.0	24.3	25.0	26.2
6H	26.0	26.5	26.9	27.5	28.8	25.7	26.3	26.7	27.3	28.5
8H	27.3	27.9	28.3	28.8	30.1	27.1	27.6	28.1	28.6	29.9
12H	28.9	29.4	29.9	30.4	31.7	28.7	29.1	29.6	30.1	31.4
12H 4H	23.8	24.4	24.7	25.3	26.6	23.6	24.2	24.5	25.2	26.4
6H	26.3	26.8	27.3	27.8	29.1	26.1	26.6	27.0	27.6	28.9
8H	27.8	28.2	28.8	29.2	30.5	27.5	28.0	28.5	29.0	30.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 3358 lm Total Lamp Luminous Flux Correct ($8\log(F/F0) = 4.2$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 Lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:

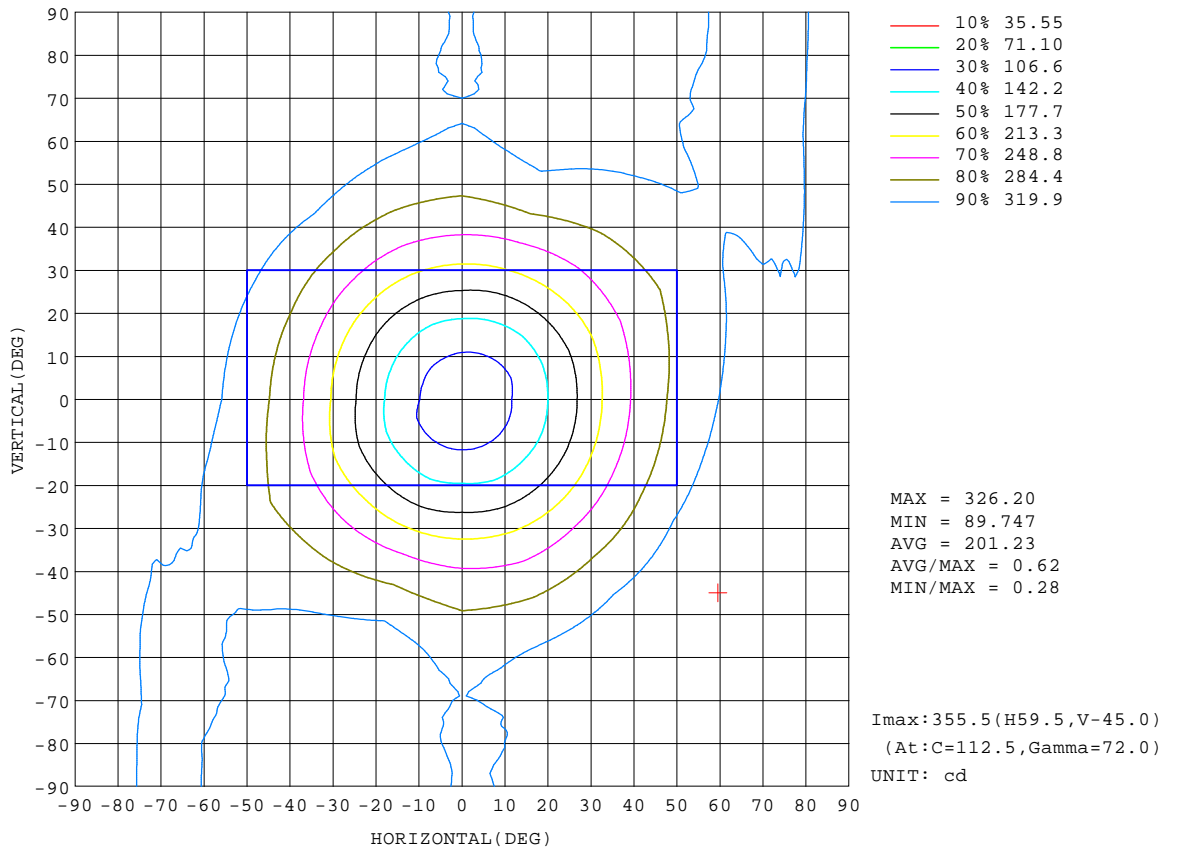
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	35	22	14	33	21	14	30	19	13	5
0.80	43	29	20	41	28	19	36	25	18	8
1.00	51	36	26	47	34	25	42	32	23	12
1.25	57	43	33	54	40	31	47	36	28	15
1.50	63	48	38	59	45	36	51	40	32	17
2.00	71	57	47	66	54	45	56	47	39	22
2.50	76	64	54	71	59	51	60	51	44	25
3.00	80	69	59	74	64	56	63	55	49	28
4.00	86	76	67	79	70	63	68	61	55	32
5.00	89	81	73	83	75	68	70	64	59	35
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:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:



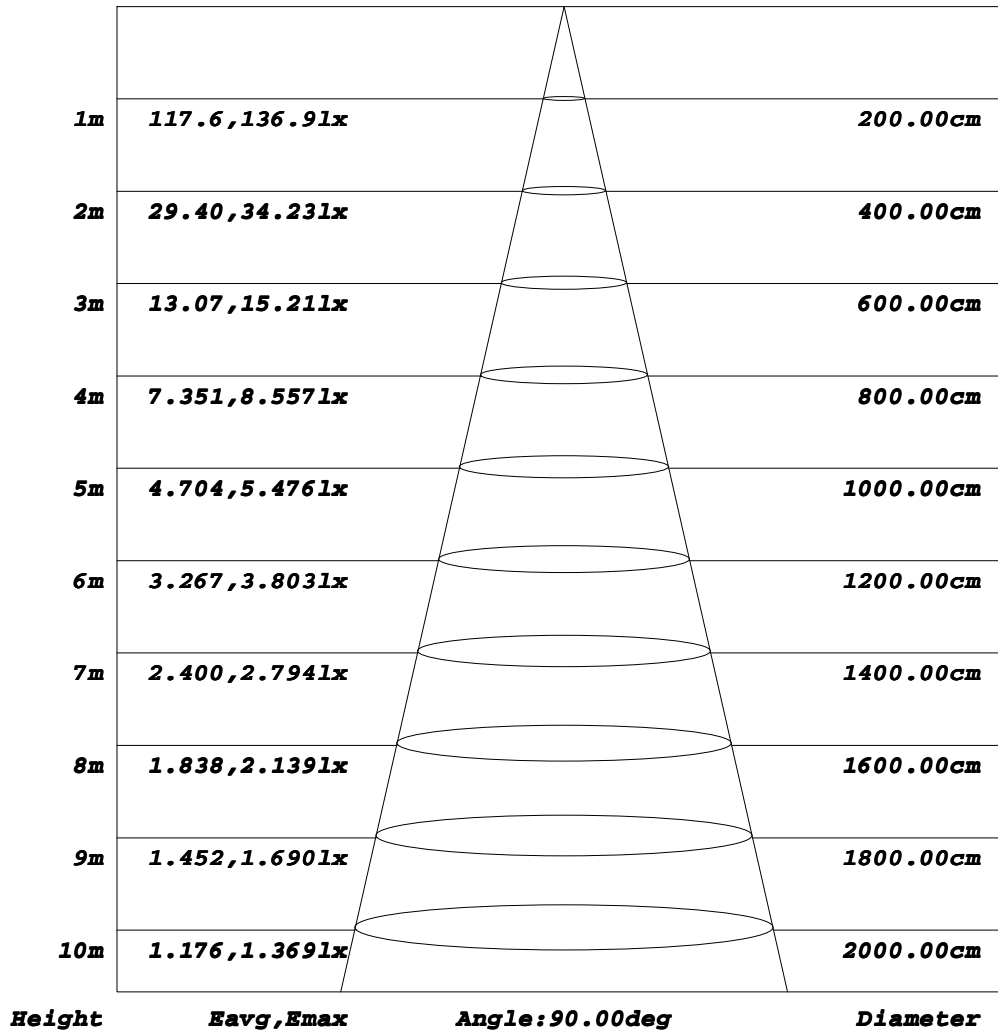
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LIU
Test Date: 2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:

Flux out:369.5 lm



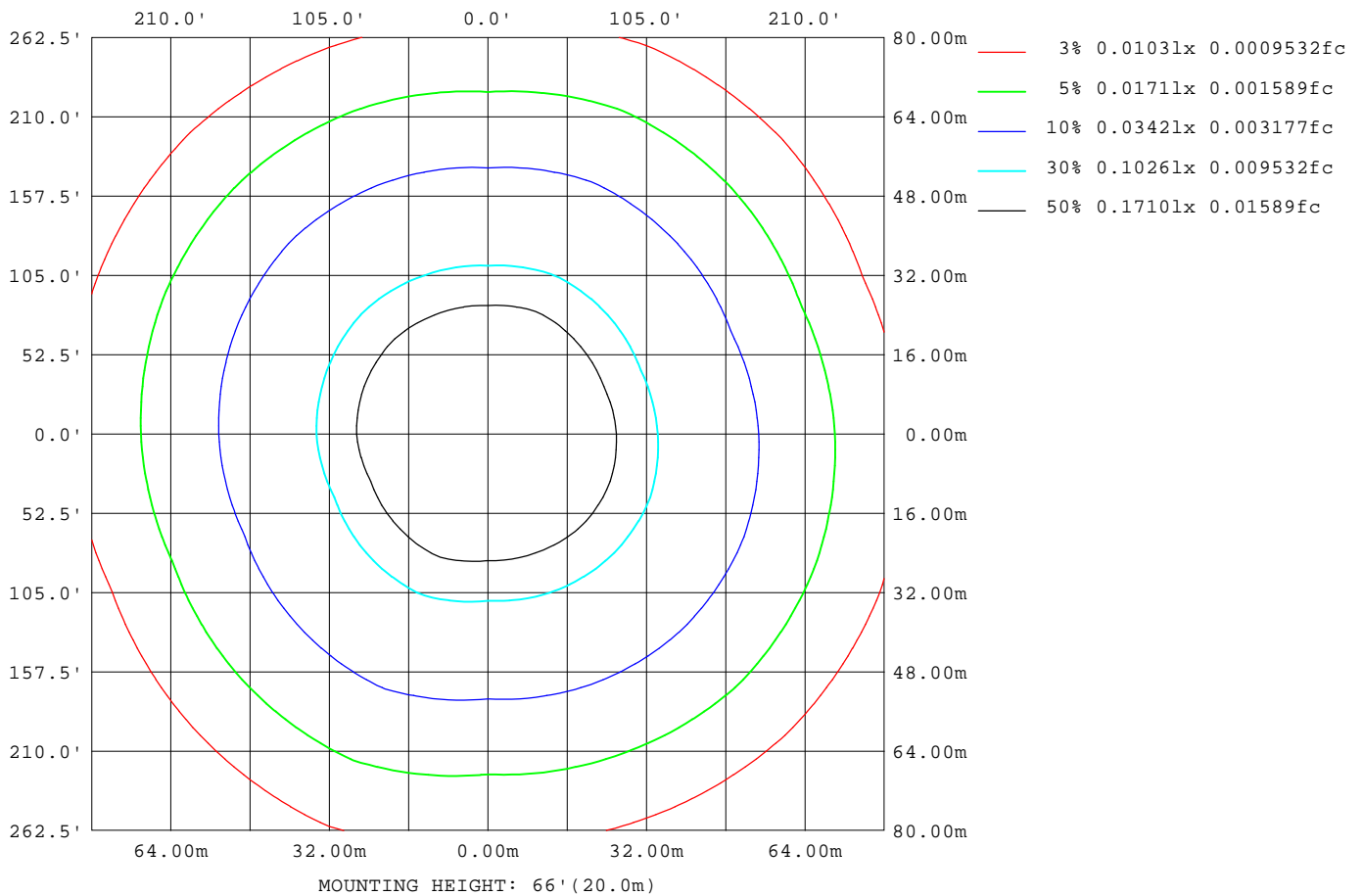
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LIU
Test Date: 2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:

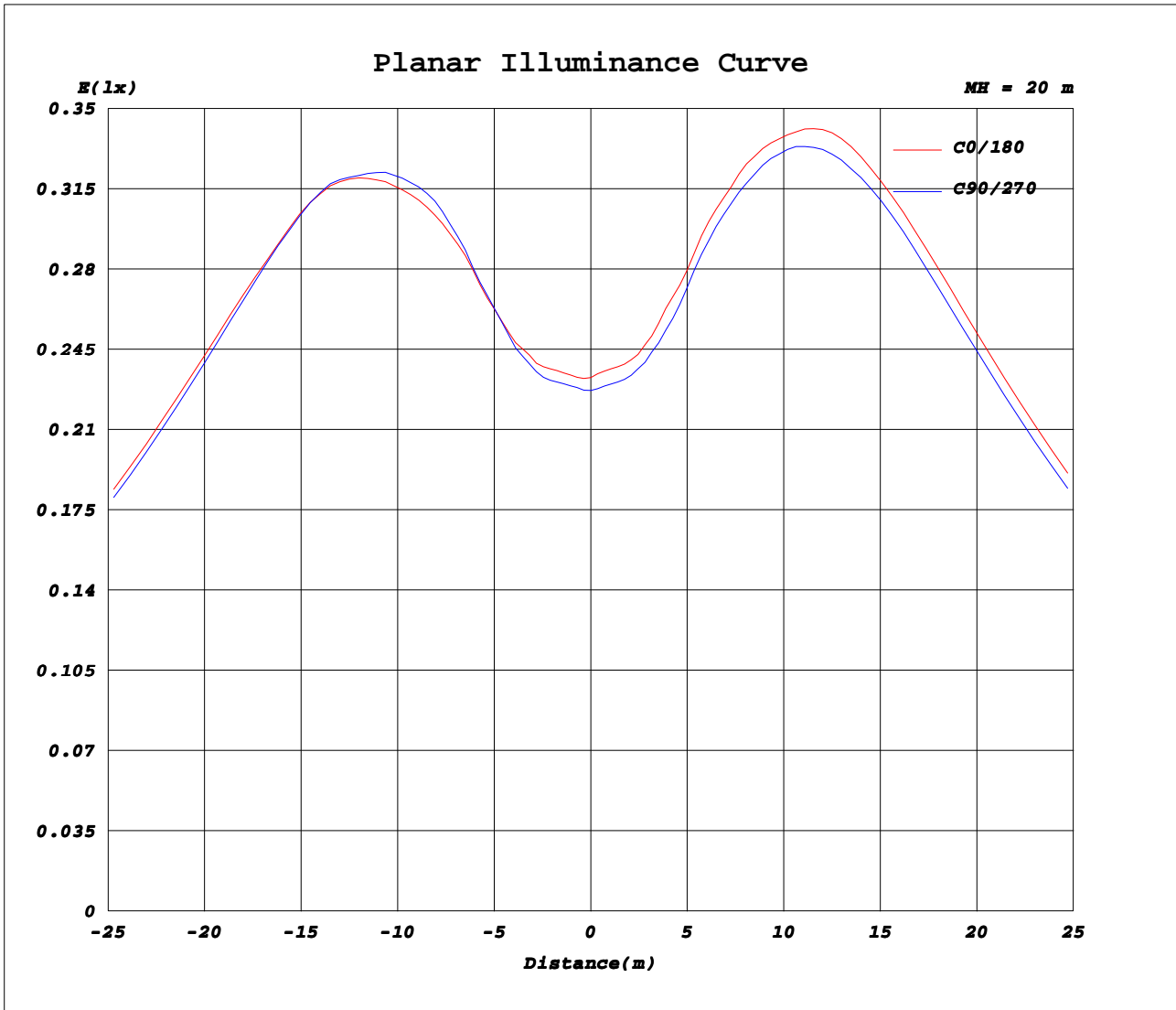
AvgL	cd/m2
L_0~180(65)av	25750
L_0~180(75)av	41561
L_0~180(85)av	123348
L_90~270(65)av	25203
L_90~270(75)av	40737
L_90~270(85)av	121516
L_45(65)av	26724
L_45(75)av	43775
L_45(85)av	130555

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LIU
Test Date: 2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2232A P:26.485W PF:0.9888 Freq:49.99Hz Lamp Flux:3358.02x1 Lm		
NAME: LED 27WT30/360°/CL/50K/MED/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:	DIM.: 95*185	SERIAL No.:1
MFR.: P.Q.L., Inc.	SUR.:95*80	Shielding Angle:

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	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2			
5	93.4	93.1	93.3	93.3	93.8	94.1	94.2	94.2	94.5	94.5	94.4	94.6	94.2	94.0	93.9	93.7			
10	101	100	101	101	102	102	103	104	105	106	105	105	104	103	102	101			
15	116	116	117	117	120	119	121	123	125	126	126	125	125	122	119	118			
20	139	140	141	141	145	144	147	150	149	151	150	149	149	146	143	143			
25	164	165	167	167	171	170	173	175	176	177	177	176	177	173	171	169			
30	193	194	196	196	199	201	203	203	206	208	208	207	206	204	202	197			
35	223	226	227	225	229	232	234	234	234	238	237	235	234	233	229	228			
40	247	252	253	249	253	261	259	259	259	263	263	258	258	259	253	252			
45	268	275	276	271	272	285	280	277	279	285	286	280	278	285	274	270			
50	286	296	299	290	288	308	300	291	297	304	307	299	294	307	293	286			
55	302	316	318	307	301	327	315	303	311	319	325	313	307	322	309	300			
60	314	334	333	323	310	341	327	312	321	329	337	325	315	332	321	310			
65	327	346	347	335	316	351	333	319	326	338	342	337	323	342	334	320			
70	330	350	351	337	318	354	338	319	325	339	351	339	321	346	334	319			
75	323	340	347	328	315	349	335	317	323	337	345	336	318	341	333	313			
80	318	339	342	329	314	350	336	317	323	337	345	334	317	341	334	313			
85	320	341	343	328	317	354	339	319	325	339	347	337	318	343	336	316			
90	320	341	343	327	317	354	339	319	325	339	347	337	318	343	336	316			
95	319	340	342	326	316	352	338	317	323	337	345	335	317	342	334	315			
100	316	337	338	322	312	348	333	313	319	331	339	331	312	338	330	311			
105	310	332	333	317	306	340	326	306	312	324	330	322	306	331	323	305			
110	303	324	325	308	298	329	315	297	304	312	319	311	297	322	312	297			
115	292	314	313	299	286	316	302	285	293	297	304	295	285	309	299	286			
120	277	299	297	286	272	301	287	270	276	280	286	277	270	293	283	272			
125	259	278	277	267	255	283	267	252	256	259	264	256	253	270	264	256			
130	237	253	251	243	235	258	245	232	233	236	239	233	233	244	243	236			
135	213	225	224	217	212	226	217	208	207	210	212	208	210	215	218	215			
140	187	195	194	188	188	192	184	182	178	180	181	179	184	185	188	190			
145	158	163	163	158	157	158	151	152	148	148	150	148	154	155	157	158			
150	124	129	128	126	123	121	116	117	114	114	116	117	120	120	123	123			
155	91.9	95.1	94.7	93.3	91.7	87.3	85.7	86.9	82.7	81.8	82.2	83.6	87.9	87.1	89.6	91.7			
160	63.0	66.0	66.0	63.6	63.4	60.0	57.9	58.1	54.6	54.2	55.0	54.8	59.4	59.6	61.7	63.8			
165	37.6	39.0	38.5	37.7	36.3	34.0	32.1	31.8	29.4	28.9	29.7	31.0	33.0	33.2	35.3	36.6			
170	17.8	18.4	18.2	18.0	16.7	15.9	14.9	14.2	13.0	12.4	12.8	13.0	14.4	15.0	16.1	16.9			
175	7.17	7.24	7.10	7.16	6.64	6.63	6.39	6.15	5.95	5.74	5.72	5.64	5.90	5.96	6.31	6.69			
180	3.83	3.85	3.83	3.85	3.85	3.86	3.85	3.86	3.86	3.83	3.85	3.84	3.87	3.85	3.86	3.86			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
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