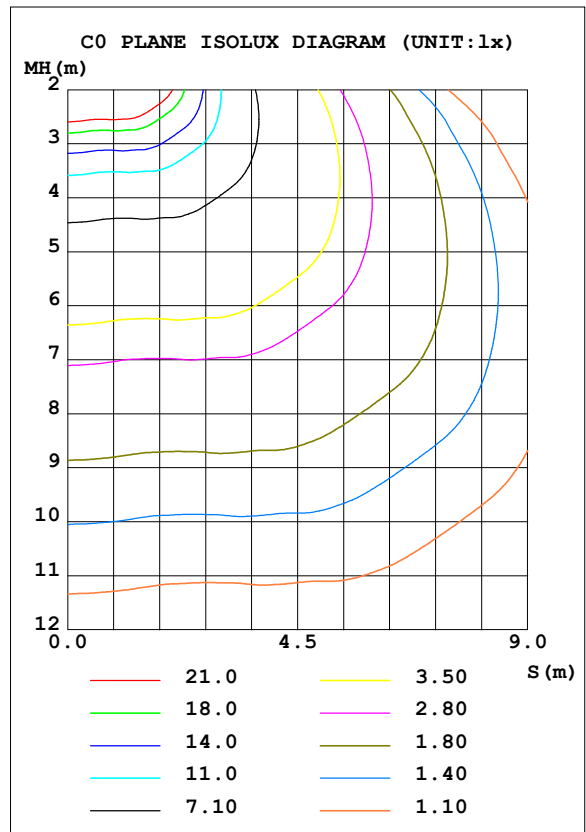
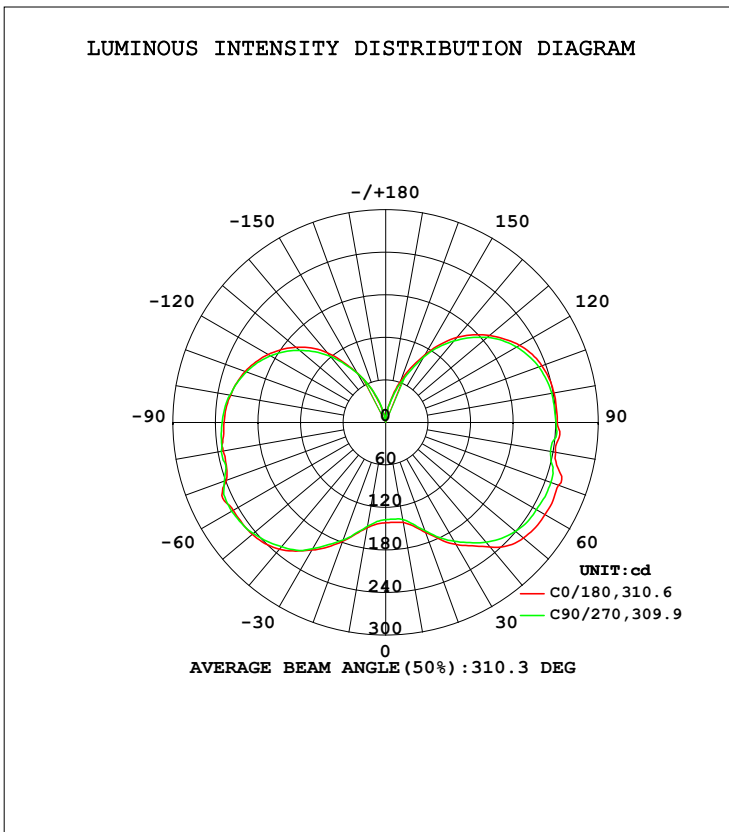


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.63 lm/W			
MODEL	91690	I _{max} (cd)	275.0	S/MH (C0/180)	2.28
NOMINAL POWER (W)	22	LOR (%)	100.0	S/MH (C90/270)	2.30
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2549.8	η UP, DN (C0-180)	22.7,28.2
NOMINAL FLUX (lm)	2549.79	CIE CLASS	DIFFUSE	η UP, DN (C180-360)	21.0,28.1
LAMPS INSIDE	1	η up (%)	43.7	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)	120	η down (%)	56.3	CIBSE SHR MAX	2.00



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

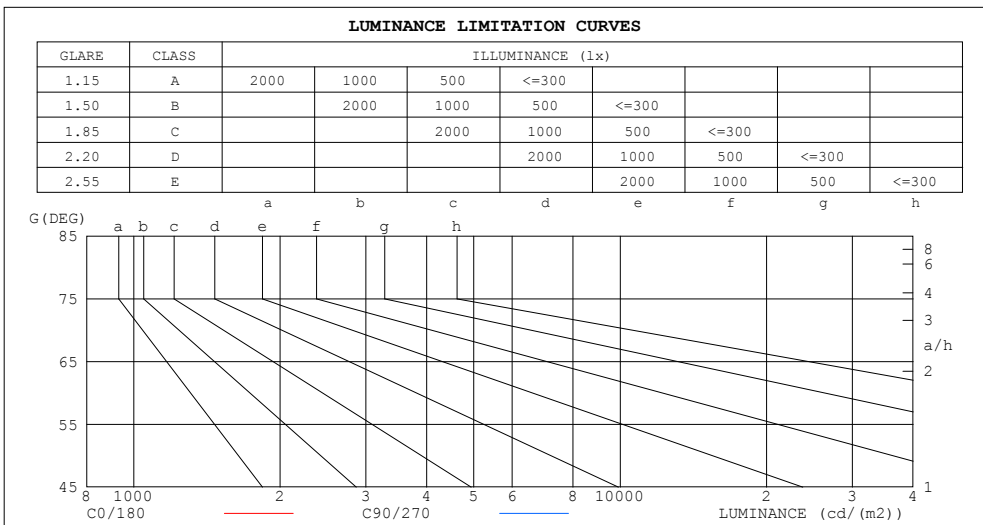
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	143.3	139.0	138.8	141.3	150.7	152.1	148.5	142.4	0- 10	13.45	13.45	0.53,0.53
20	165.2	159.8	162.6	164.2	178.5	181.8	176.6	167.1	10- 20	44.35	57.80	2.27,2.27
30	198.9	194.3	193.6	194.5	207.8	208.7	205.4	195.4	20- 30	85.60	143.4	5.62,5.62
40	229.3	223.2	220.5	224.9	233.4	233.4	228.7	218.4	30- 40	133.9	277.3	10.9,10.9
50	253.7	246.4	238.9	240.3	245.6	244.5	243.7	233.4	40- 50	181.7	459.0	18,18
60	259.5	251.9	245.8	243.7	248.4	245.8	250.9	242.0	50- 60	220.1	679.1	26.6,26.6
70	259.4	252.8	247.9	240.7	239.4	233.3	242.0	249.7	60- 70	246.3	925.4	36.3,36.3
80	243.4	240.2	236.3	228.3	232.9	229.8	235.5	233.3	70- 80	253.2	1179	46.2,46.2
90	242.2	237.7	240.3	228.4	228.0	227.6	230.7	233.5	80- 90	256.9	1436	56.3,56.3
100	241.1	235.0	237.9	227.1	222.2	222.7	223.4	230.8	90-100	253.9	1689	66.3,66.3
110	234.6	228.7	229.9	218.8	210.9	209.5	209.3	220.4	100-110	239.3	1929	75.6,75.6
120	218.1	215.1	213.3	195.2	192.0	189.3	188.1	202.8	110-120	210.4	2139	83.9,83.9
130	191.0	193.7	186.7	167.4	165.2	161.1	158.6	177.1	120-130	170.0	2309	90.6,90.6
140	156.7	162.1	150.2	131.1	128.8	122.9	122.0	141.4	130-140	122.6	2432	95.4,95.4
150	109.5	116.1	105.3	89.14	80.83	76.81	79.89	95.55	140-150	74.24	2506	98.3,98.3
160	62.79	68.94	56.38	46.59	37.06	33.16	39.10	50.41	150-160	33.69	2540	99.6,99.6
170	22.17	24.35	20.74	13.45	8.776	6.284	8.501	15.77	160-170	9.215	2549	100,100
180	3.470	3.424	3.374	3.339	3.501	3.439	3.385	3.355	170-180	0.8616	2550	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:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	521958	512328
80	259547	251962
75	180123	175096
70	140443	134220
65	114103	108692
60	96102	91035
55	83380	78802
50	73088	68832
45	64288	60555

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

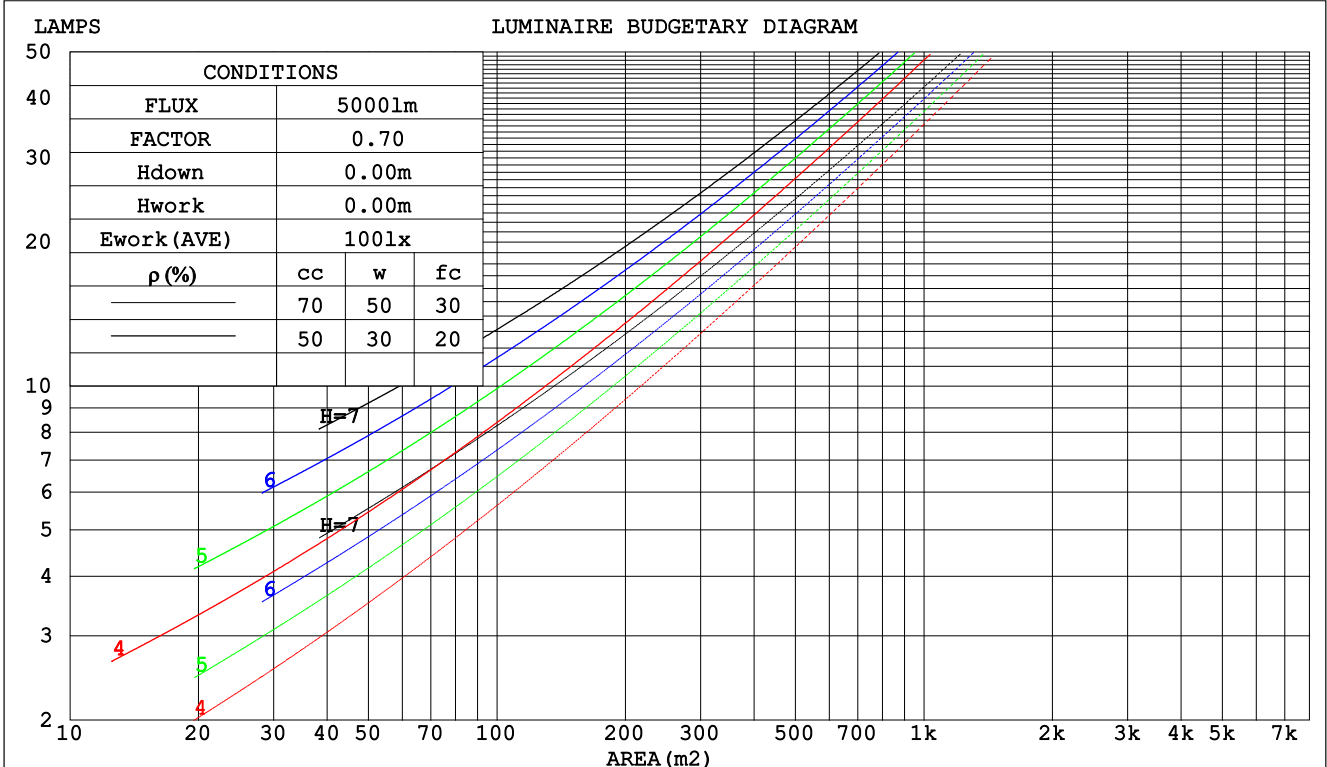
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.09	1.09	1.09	1.01	1.01	1.01	.87	.87	.87	.74	.74	.74	.62	.62	.62	.56
1.0	.88	.82	.76	.81	.76	.71	.69	.65	.61	.57	.54	.51	.47	.44	.42	.37
2.0	.74	.65	.58	.68	.61	.54	.57	.51	.46	.47	.43	.39	.38	.35	.32	.27
3.0	.63	.54	.46	.58	.50	.43	.49	.42	.37	.40	.35	.31	.32	.28	.25	.21
4.0	.55	.45	.38	.50	.42	.35	.42	.35	.30	.35	.29	.25	.28	.24	.20	.16
5.0	.48	.38	.31	.44	.36	.29	.37	.30	.25	.31	.25	.21	.25	.20	.17	.13
6.0	.43	.33	.27	.39	.31	.25	.33	.26	.21	.27	.22	.17	.22	.17	.14	.11
7.0	.38	.29	.23	.35	.27	.21	.30	.23	.18	.25	.19	.15	.20	.15	.12	.09
8.0	.34	.26	.20	.32	.24	.18	.27	.20	.16	.22	.17	.13	.18	.14	.10	.08
9.0	.31	.23	.17	.29	.21	.16	.24	.18	.14	.20	.15	.11	.16	.12	.09	.07
10.0	.28	.20	.15	.26	.19	.14	.22	.16	.12	.19	.14	.10	.15	.11	.08	.06



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		

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	.421	.240	.076	.401	.229	.073	.362	.208	.066	.327	.189	.061	.294	.171	.055	
2.0	.352	.193	.059	.333	.183	.056	.298	.165	.051	.265	.149	.047	.235	.133	.042	
3.0	.306	.163	.049	.289	.155	.047	.257	.139	.042	.227	.125	.038	.200	.111	.034	
4.0	.272	.142	.042	.257	.134	.040	.227	.121	.036	.200	.107	.032	.174	.095	.029	
5.0	.245	.125	.036	.231	.119	.035	.204	.106	.031	.179	.094	.028	.155	.083	.025	
6.0	.223	.112	.032	.210	.106	.031	.185	.095	.028	.162	.084	.025	.140	.074	.022	
7.0	.205	.101	.029	.193	.096	.027	.170	.086	.025	.148	.076	.022	.128	.066	.020	
8.0	.189	.093	.026	.178	.088	.025	.157	.078	.022	.137	.069	.020	.118	.060	.018	
9.0	.176	.085	.024	.165	.081	.023	.146	.072	.020	.127	.064	.018	.109	.055	.016	
10.0	.164	.079	.022	.154	.075	.021	.136	.067	.019	.118	.059	.017	.102	.051	.015	

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	.523	.523	.523	.447	.447	.447	.305	.305	.305	.175	.175	.175	.056	.056	.056	
1.0	.524	.491	.461	.448	.421	.397	.307	.290	.275	.176	.168	.160	.057	.054	.052	
2.0	.518	.470	.429	.444	.404	.371	.304	.280	.258	.175	.163	.152	.056	.053	.049	
3.0	.511	.454	.409	.438	.392	.355	.301	.272	.249	.174	.159	.147	.056	.052	.048	
4.0	.504	.443	.396	.432	.383	.344	.297	.267	.242	.172	.156	.143	.055	.051	.047	
5.0	.496	.434	.387	.426	.375	.337	.294	.262	.238	.170	.154	.141	.055	.050	.047	
6.0	.489	.426	.381	.420	.369	.332	.290	.258	.235	.168	.152	.140	.054	.050	.046	
7.0	.482	.420	.377	.415	.364	.328	.287	.255	.233	.166	.150	.138	.054	.049	.046	
8.0	.475	.415	.373	.409	.360	.325	.283	.253	.231	.165	.149	.138	.053	.049	.046	
9.0	.469	.410	.371	.404	.356	.323	.280	.250	.230	.163	.148	.137	.053	.049	.045	
10.0	.463	.406	.368	.400	.353	.322	.277	.248	.228	.162	.147	.136	.052	.048	.045	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		

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	22.7	23.8	23.5	24.7	25.7	22.3	23.4	23.1	24.3	25.3
3H	25.9	27.0	26.8	27.8	28.9	25.5	26.6	26.3	27.4	28.5
4H	27.7	28.7	28.6	29.6	30.7	27.3	28.3	28.1	29.2	30.3
6H	29.6	30.5	30.4	31.4	32.5	29.2	30.1	30.1	31.0	32.1
8H	30.6	31.5	31.5	32.4	33.5	30.3	31.2	31.1	32.1	33.2
12H	31.8	32.7	32.7	33.6	34.8	31.6	32.4	32.4	33.3	34.5
4H 2H	23.6	24.6	24.5	25.5	26.6	23.3	24.3	24.2	25.2	26.3
3H	27.0	27.9	27.9	28.8	30.0	26.7	27.5	27.5	28.4	29.6
4H	29.0	29.8	29.9	30.7	31.9	28.6	29.4	29.5	30.3	31.4
6H	31.0	31.7	31.9	32.7	33.9	30.6	31.3	31.5	32.3	33.5
8H	32.1	32.8	33.1	33.8	35.0	31.8	32.4	32.7	33.4	34.6
12H	33.5	34.1	34.4	35.1	36.3	33.1	33.8	34.1	34.7	35.9
8H 4H	29.6	30.3	30.5	31.2	32.4	29.3	30.0	30.2	30.9	32.1
6H	31.9	32.5	32.9	33.5	34.7	31.6	32.2	32.5	33.1	34.4
8H	33.3	33.8	34.3	34.8	36.0	32.9	33.4	33.9	34.4	35.7
12H	34.9	35.3	35.9	36.3	37.6	34.5	35.0	35.5	36.0	37.2
12H 4H	29.8	30.4	30.7	31.3	32.6	29.5	30.1	30.4	31.1	32.3
6H	32.2	32.7	33.2	33.7	35.0	31.9	32.4	32.9	33.4	34.6
8H	33.7	34.1	34.7	35.1	36.4	33.3	33.8	34.3	34.8	36.1
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, 2550 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.3)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		

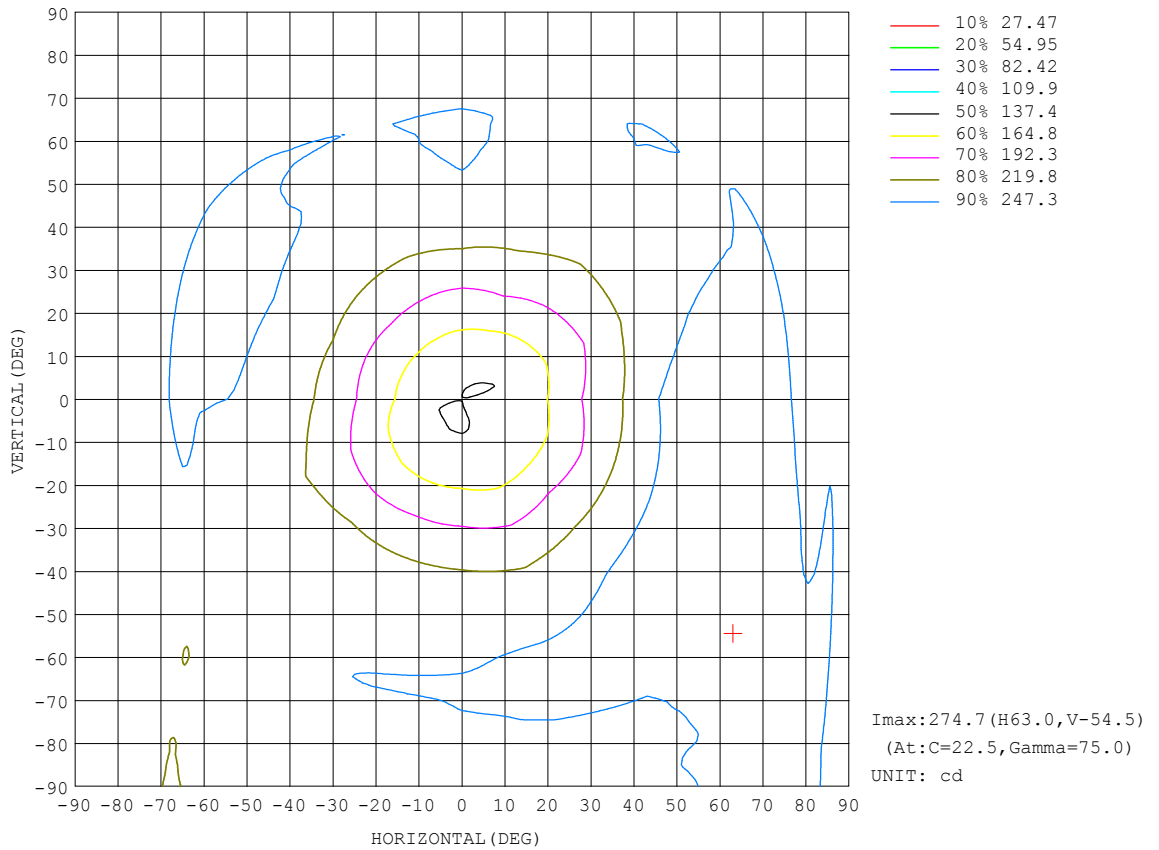
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	37	24	16	35	23	16	32	21	15	8
0.80	45	31	23	43	30	22	38	27	20	11
1.00	52	38	29	49	36	28	44	35	25	14
1.25	59	45	35	56	43	34	49	38	31	18
1.50	65	51	41	60	48	39	53	42	35	20
2.00	73	59	50	68	56	47	59	49	42	25
2.50	78	66	56	72	61	53	62	54	47	28
3.00	82	71	62	76	66	58	65	58	51	31
4.00	87	77	69	81	72	65	70	63	57	35
5.00	91	82	75	84	77	70	72	66	61	38
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:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		

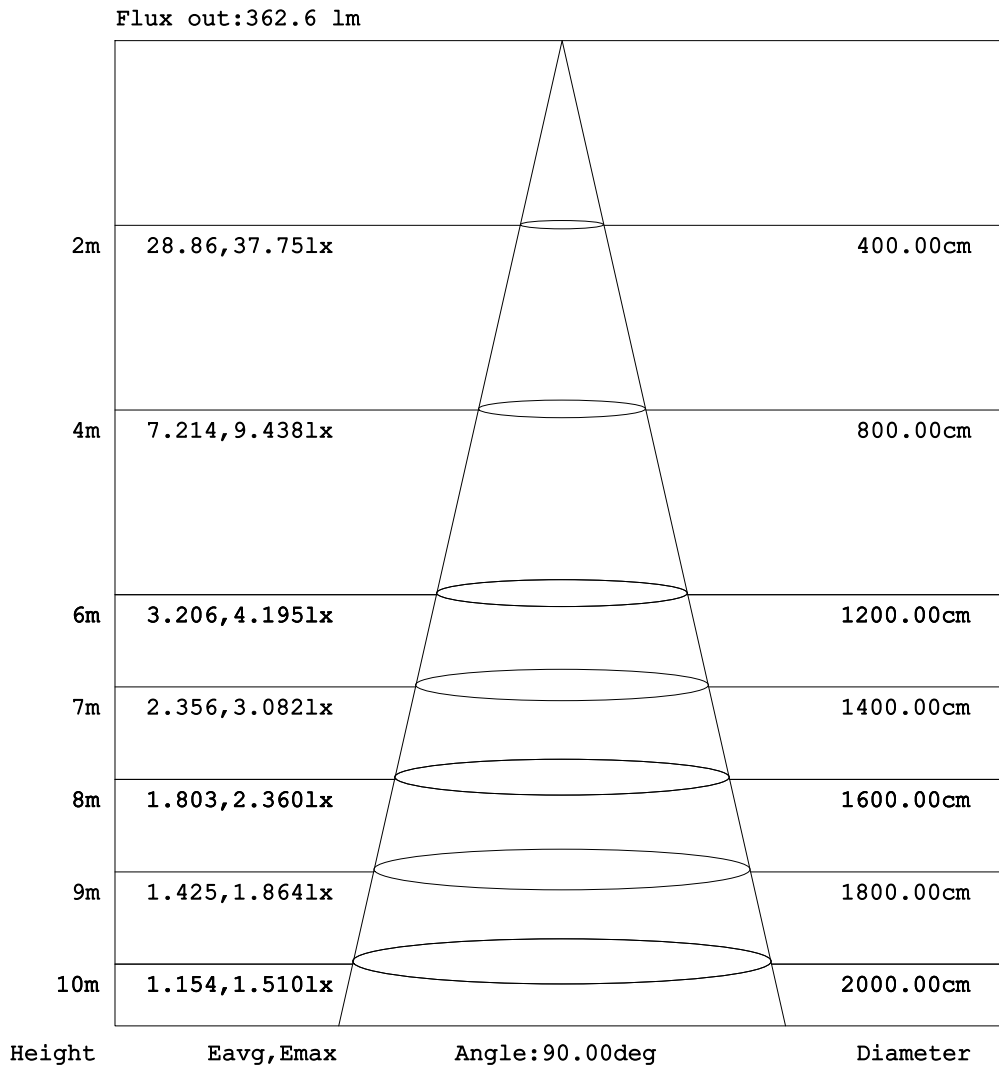


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		



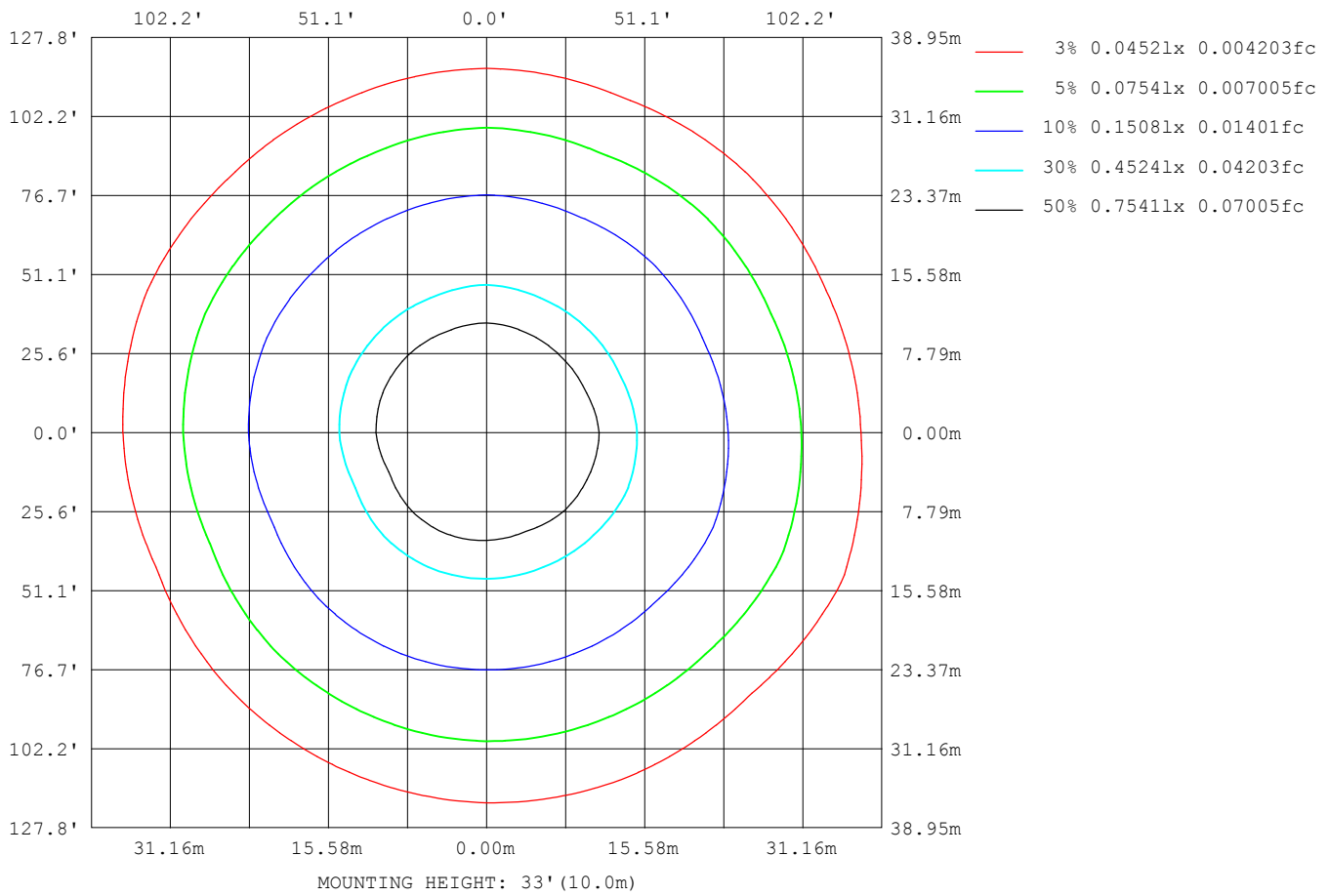
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
MFR.: P.Q.L., Inc.		

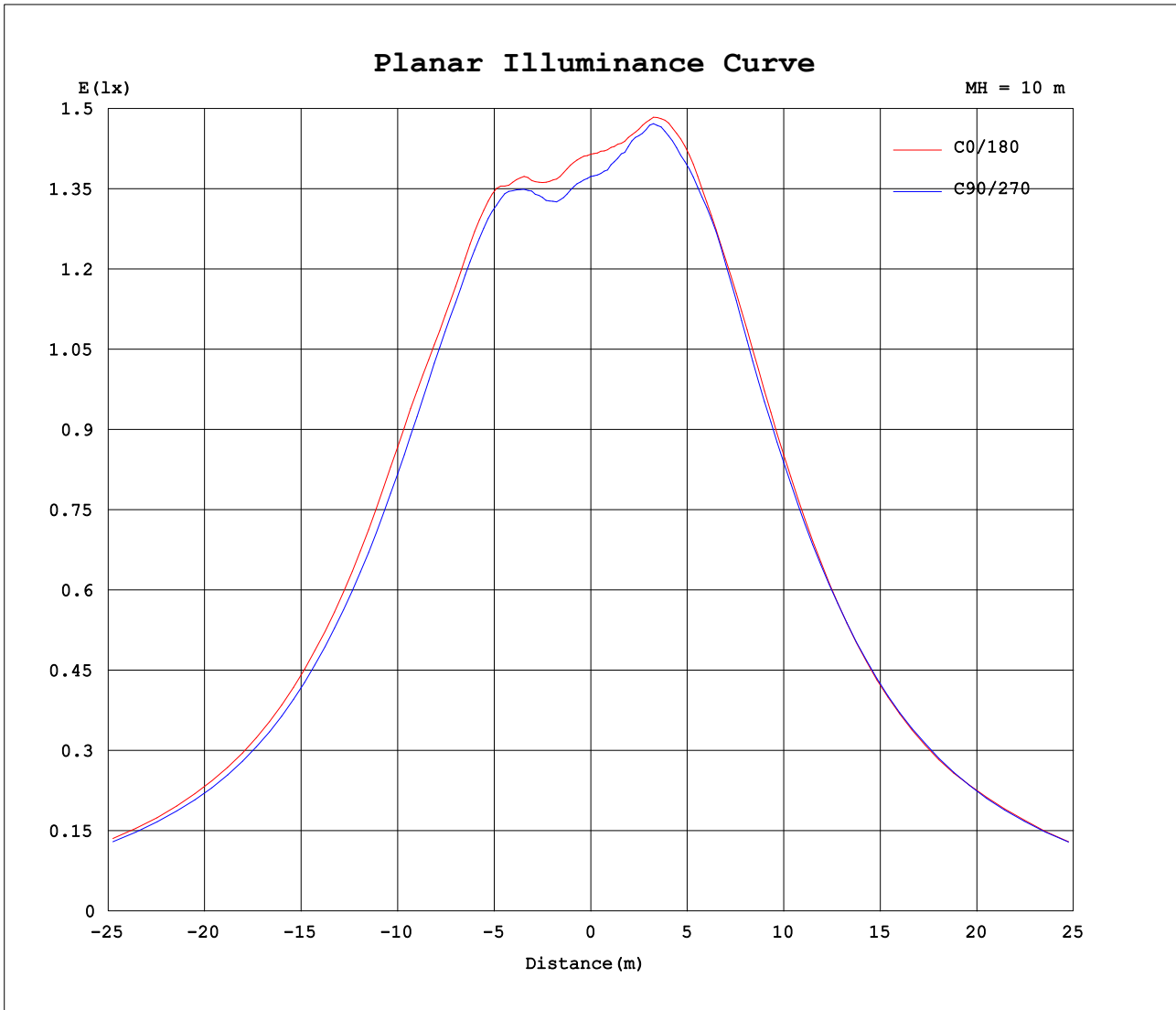
AvgL	cd/m2
L_0~180 (65) av	112617
L_0~180 (75) av	173326
L_0~180 (85) av	505038
L_90~270 (65) av	109188
L_90~270 (75) av	171099
L_90~270 (85) av	503603
L_45 (65) av	108776
L_45 (75) av	169185
L_45 (85) av	497608

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Liu
 Test Date:2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.303m [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: 2018-10-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 7.303m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.87V I:0.1813A P:21.676W PF:0.9973 Freq:49.99Hz Lamp Flux:2549.79x1 lm		
NAME: LED 22WT19/360°/CL/30K/MED/120-277V/V5	TYPE:360° HIGH WATTAGE	WEIGHT:
SPEC.:60*182	DIM.: 60*182	SERIAL No.:1
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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	141	140	139	138	137	136	136	135	141	140	139	138	137	136	136	135			
5	142	140	138	137	137	137	137	137	144	144	143	141	140	139	137	136			
10	143	141	139	139	139	139	141	143	151	152	152	151	148	146	142	139			
15	151	148	146	146	148	149	150	154	163	165	165	164	161	159	153	148			
20	165	161	160	158	163	163	164	170	178	180	182	179	177	174	167	161			
25	182	177	176	174	179	180	178	184	194	195	195	193	190	190	182	176			
30	199	192	194	188	194	195	195	196	208	211	209	206	205	203	195	190			
35	212	209	209	202	207	208	212	210	221	225	223	219	220	215	208	205			
40	229	226	223	216	221	224	225	220	233	234	233	229	229	226	218	219			
45	245	240	238	227	231	236	233	225	241	243	240	235	237	231	227	229			
50	254	251	246	236	239	242	240	228	246	249	244	239	244	236	233	237			
55	258	262	250	243	244	246	243	231	247	251	247	242	248	239	239	241			
60	259	268	252	249	246	246	244	232	248	252	246	244	251	239	242	243			
65	260	270	253	251	248	247	245	234	254	258	249	247	250	242	246	243			
70	259	271	253	249	248	245	241	228	239	242	233	236	242	234	250	244			
75	252	275	247	249	245	237	231	220	233	241	230	230	234	228	238	240			
80	243	260	240	239	236	231	228	220	233	245	230	230	235	233	233	230			
85	246	260	241	240	241	237	231	220	230	243	229	230	233	229	236	234			
90	242	259	238	238	240	232	228	219	228	242	228	229	231	228	233	231			
95	242	258	236	237	239	231	228	218	226	240	226	227	228	227	232	230			
100	241	257	235	236	238	230	227	215	222	237	223	224	223	225	231	228			
105	239	253	233	233	234	226	225	211	217	230	217	218	217	220	227	224			
110	235	248	229	228	230	219	219	205	211	222	210	210	209	214	220	219			
115	228	241	223	221	222	212	207	196	202	212	200	201	200	206	213	212			
120	218	230	215	212	213	202	195	186	192	199	189	190	188	196	203	203			
125	205	217	206	200	201	191	182	173	180	184	176	175	174	184	191	192			
130	191	202	194	187	187	177	167	159	165	166	161	159	159	170	177	179			
135	175	183	179	171	169	163	150	142	149	145	144	141	141	154	159	164			
140	157	162	162	154	150	146	131	123	129	125	123	120	122	135	141	147			
145	134	141	142	133	130	125	112	103	104	102	98.8	97.3	101	111	121	126			
150	110	118	116	111	105	101	89.1	79.4	80.8	76.1	76.8	75.7	79.9	88.1	95.5	102			
155	85.4	90.6	91.6	87.8	78.4	78.9	67.3	57.8	59.7	54.7	55.0	54.0	59.7	67.2	70.9	80.4			
160	62.8	66.6	68.9	65.5	56.4	57.6	46.6	39.3	37.1	33.5	33.2	33.6	39.1	44.6	50.4	58.9			
165	40.4	44.7	44.1	42.8	36.6	35.4	27.6	22.1	20.0	17.2	16.7	17.3	19.3	25.0	30.3	36.0			
170	22.2	25.0	24.4	23.5	20.7	18.0	13.5	10.3	8.78	7.19	6.28	7.57	8.50	10.3	15.8	18.5			
175	9.40	10.5	10.2	9.72	8.11	7.08	4.58	3.91	3.60	3.42	3.42	3.37	3.49	4.26	5.33	7.61			
180	3.47	3.47	3.42	3.40	3.37	3.37	3.34	3.34	3.50	3.44	3.44	3.39	3.39	3.36	3.35	3.33			

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