

# Photometric test report

<b>Family</b> <b>Floodlight FL21 midi</b>	<b>Order number: 5XA7782F2A1A</b> <b>EAN: 4058352704905</b>	<b>LP number</b> <b>59304_159</b>
	<b>Version</b> mounting bracket <b>Optic</b> asymmetric distribution PL43 <b>Cover</b> toughened safety glass <b>Lamps</b> LED 3000 K   CRI ≥ 70 <b>Controlgear</b> ECG SITECO iQ <b>Rated values</b> Net luminous flux = 36680 lm Power consumption = 270.2 W Luminous efficacy = 135.8 lm/W	<b>serial documentation</b> <b>22.08.2023</b>



**Luminous intensity in cd/klm** C180-0 C220-40 C225-45 C270-90 **Imax: 962 cd/klm**



Luminaire output ratios	
Eta	100.0%
Eta 0° - 90°	100.0%
Eta 90° - 180°	0.0%

Luminous intensity class acc. to EN13201-2	
Class:	G6
Imax 70°	58.9
Imax 80°	16.9
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

**Measurement conditions**  
DIN EN 13032 and DIN 5032

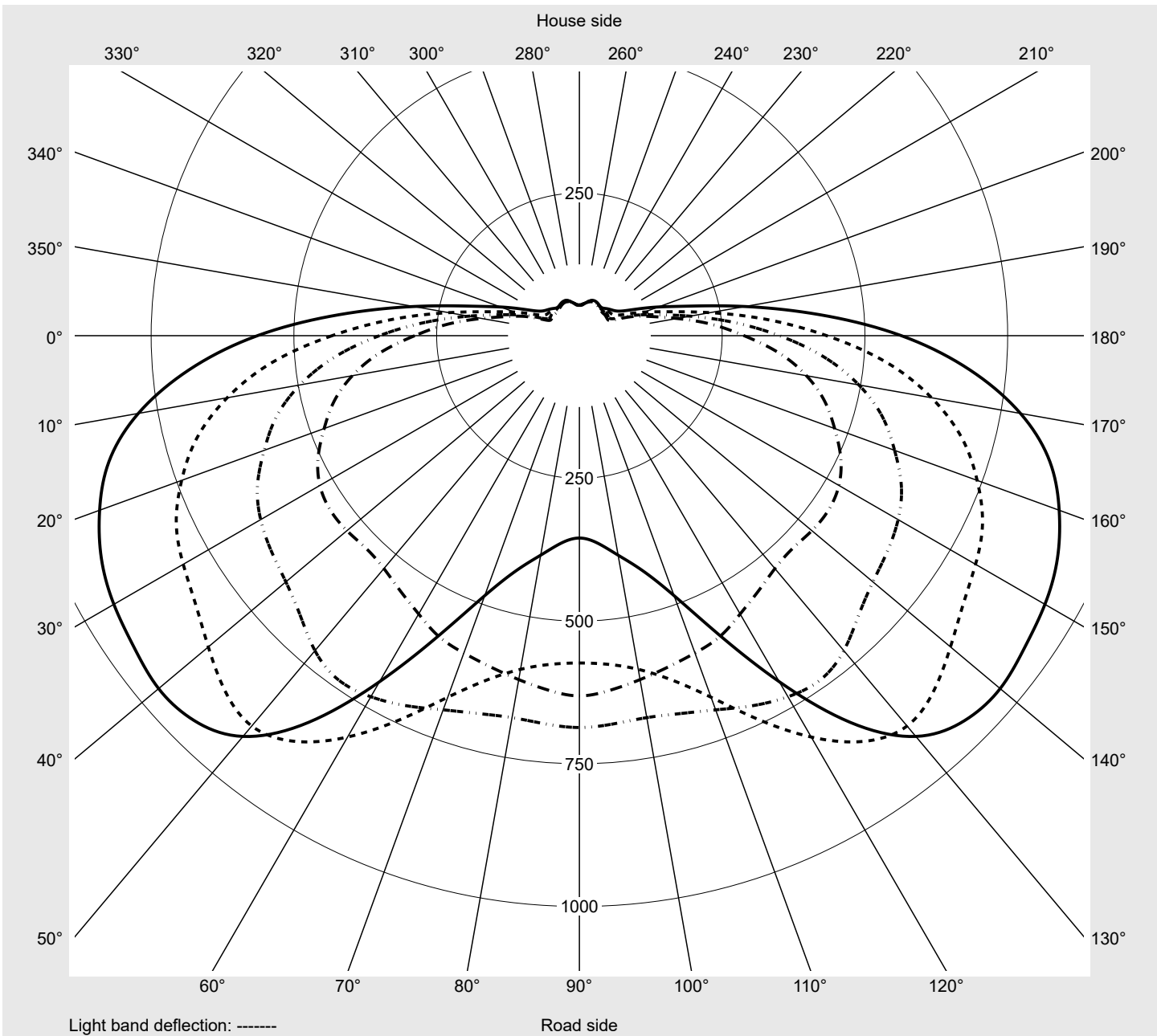
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**Floodlight FL21 midi**

**Order number: 5XA7782F2A1A**  
**EAN: 4058352704905**

**LP number**  
**59304\_159**

**Envelope curve in cd/klm**      **KMK 57.5°**    **KMK 55°**    **KMK 52.5°**    **KMK 50°**      **siteco**



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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	0° 180°	5° 175°	10° 170°	15° 165°	20° 160°	25° 155°	30° 150°	35° 145°	40° 140°	45° 135°	50° 130°	55° 125°	60° 120°
γ	Luminous intensity in cd/klm												
0,0°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2,5°	156.9	157.8	158.6	159.4	160.2	161.0	161.7	162.4	163.1	163.7	164.4	165.0	165.6
5,0°	158.3	160.3	161.9	163.5	165.0	166.4	167.6	168.8	170.0	171.0	172.1	173.0	174.0
7,5°	161.4	164.1	166.5	168.8	170.8	172.7	174.4	175.8	177.2	178.4	179.5	180.6	181.6
10,0°	164.4	168.1	171.3	174.2	176.8	179.2	181.2	182.9	184.5	185.9	187.2	188.4	189.4
12,5°	167.4	171.9	175.9	179.6	182.7	185.7	188.2	190.5	192.5	194.4	195.9	197.4	198.5
15,0°	169.2	174.7	179.7	184.2	188.1	191.7	195.0	198.2	200.9	203.5	205.4	207.1	208.3
17,5°	170.1	176.8	183.0	188.6	193.4	198.0	202.4	206.5	210.2	213.4	215.9	217.8	219.1
20,0°	170.8	178.9	186.4	193.1	198.9	204.6	210.0	215.2	219.8	223.8	226.6	229.0	230.4
22,5°	172.9	182.4	191.1	199.1	206.0	212.8	219.3	225.5	231.1	236.1	239.6	242.2	243.8
25,0°	175.2	186.7	196.7	206.0	214.3	222.5	230.0	237.3	244.1	250.2	255.0	258.3	259.3
27,5°	179.0	192.2	203.8	214.5	224.8	234.2	242.1	249.6	257.6	265.9	272.7	276.2	277.6
30,0°	182.1	198.0	211.4	223.9	236.8	246.8	255.3	263.0	271.9	282.7	291.6	295.0	295.2
32,5°	186.3	204.6	220.0	233.6	246.8	258.6	268.6	277.2	285.6	299.6	313.0	316.6	314.8
35,0°	190.7	212.2	229.6	244.3	257.6	270.0	281.5	292.9	302.1	317.6	336.0	344.0	332.8
37,5°	197.0	222.6	243.9	261.0	276.5	291.4	305.0	318.1	325.8	337.0	354.4	355.4	337.3
40,0°	202.1	234.4	261.9	285.4	306.6	325.4	340.0	349.0	349.7	353.0	352.8	344.0	326.3
42,5°	210.8	246.5	277.6	303.1	326.1	347.8	364.5	372.2	370.8	365.9	352.1	338.3	320.8
45,0°	224.6	267.6	303.3	332.4	357.2	380.8	398.8	405.5	401.1	387.6	369.4	352.4	336.5
47,5°	252.0	299.0	341.4	375.5	403.1	429.0	447.0	452.6	447.0	431.9	416.5	405.9	403.2
50,0°	288.4	351.5	403.8	444.9	475.7	505.0	524.8	532.6	531.5	527.6	532.6	546.3	563.0
52,5°	350.2	430.3	497.0	549.5	587.4	622.1	644.5	658.5	671.1	691.9	720.5	736.0	730.5
55,0°	433.2	540.5	626.3	693.6	741.3	779.0	801.1	820.5	848.3	878.5	892.7	867.8	812.0
57,5°	563.9	686.2	784.4	853.1	894.2	923.7	941.4	952.1	962.0	953.8	916.6	827.1	700.1
60,0°	645.7	773.4	861.0	921.1	936.8	940.1	941.0	920.1	877.5	808.2	711.0	584.2	450.7
62,5°	601.4	706.1	762.3	796.7	772.7	741.4	711.6	663.9	591.2	503.0	409.0	323.3	249.9
65,0°	409.8	448.6	471.6	480.8	450.9	418.9	389.1	352.4	303.7	251.6	208.1	168.8	130.0
67,5°	142.0	167.5	172.5	173.5	165.4	156.1	148.4	136.4	124.0	107.2	91.4	76.1	61.2
70,0°	49.3	49.2	46.7	47.4	48.3	48.8	50.1	50.4	52.3	51.7	51.7	53.8	51.3
72,5°	24.2	24.8	24.5	24.7	25.7	27.0	28.6	31.5	34.4	37.5	41.5	41.6	39.5
75,0°	19.2	21.9	20.2	19.9	20.5	20.8	21.6	24.6	26.1	26.6	28.4	29.8	29.8
77,5°	16.4	17.9	15.3	14.7	15.2	15.4	16.1	17.2	18.1	18.6	19.1	20.4	20.9
80,0°	12.2	11.0	10.3	9.9	10.2	10.8	10.9	11.8	12.7	13.2	13.0	13.2	14.0
82,5°	6.4	7.0	5.8	5.8	6.1	6.6	7.3	7.3	7.7	8.7	8.4	8.0	8.4
85,0°	2.9	3.0	2.8	2.8	3.1	3.3	3.7	3.6	3.6	3.7	3.7	3.8	3.8
87,5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.9
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>

**siteco**

C-planes	65° 115°	70° 110°	75° 105°	80° 100°	85° 95°	90°	185° 355°	190° 350°	195° 345°	200° 340°	205° 335°	210° 330°	215° 325°
γ	Luminous intensity in cd/klm												
0,0°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2,5°	166.1	166.5	166.9	167.3	167.4	167.6	156.1	155.1	154.2	153.4	152.5	151.6	150.9
5,0°	174.8	175.6	176.4	177.0	177.4	177.6	156.7	154.7	152.7	150.7	148.7	146.7	144.8
7,5°	182.6	183.6	184.5	185.4	186.0	186.3	158.7	155.6	152.5	149.3	146.1	142.9	139.7
10,0°	190.4	191.5	192.7	193.9	194.8	195.2	160.7	156.7	152.4	148.0	143.4	138.8	134.2
12,5°	199.6	200.7	202.1	203.8	205.4	206.1	162.5	157.2	151.8	146.0	140.0	134.0	128.1
15,0°	209.4	210.5	212.0	214.4	216.9	218.0	163.0	156.5	149.7	142.6	135.2	127.9	120.8
17,5°	220.0	221.0	222.6	225.8	230.0	232.3	162.6	154.7	146.5	138.1	129.3	120.6	112.3
20,0°	231.5	232.1	233.3	236.5	243.2	247.5	161.8	152.4	142.9	133.0	122.7	113.0	103.9
22,5°	244.2	244.1	244.3	246.8	256.3	263.5	162.1	151.0	139.5	127.7	116.3	105.8	96.6
25,0°	258.9	257.0	256.0	257.5	267.6	274.6	162.8	149.5	135.7	122.5	110.3	99.5	90.3
27,5°	276.0	272.5	269.9	270.5	279.2	277.7	164.1	148.6	132.8	118.3	105.4	94.5	83.9
30,0°	292.6	285.9	280.7	280.7	287.6	280.6	164.7	147.1	130.0	114.5	101.4	89.8	71.6
32,5°	308.3	293.6	283.9	282.7	289.4	288.0	166.1	146.2	128.0	112.0	98.7	81.8	61.0
35,0°	320.0	299.4	285.4	284.6	281.9	276.3	166.9	144.5	125.1	109.2	94.6	69.0	57.3
37,5°	318.6	295.6	280.2	274.7	266.5	263.2	168.9	143.5	122.9	106.8	85.1	59.9	56.2
40,0°	306.3	286.3	269.5	257.9	251.2	249.2	169.3	141.4	120.1	103.5	70.1	56.9	55.1
42,5°	301.9	283.2	270.0	261.0	258.6	258.3	173.9	143.3	119.8	99.9	64.3	56.3	54.4
45,0°	325.6	319.6	322.8	329.4	337.4	341.4	185.0	148.7	120.3	97.0	63.3	56.8	54.7
47,5°	416.5	432.9	449.9	468.0	483.3	490.4	204.3	158.9	123.6	96.2	63.5	57.0	55.5
50,0°	581.7	591.7	600.9	611.9	623.4	631.1	231.4	173.7	129.8	97.6	64.8	57.1	57.2
52,5°	715.5	697.6	685.4	679.5	682.8	686.5	270.2	196.9	141.6	105.0	72.5	61.0	60.9
55,0°	742.0	674.1	624.4	593.6	578.0	573.5	328.4	232.3	162.1	121.0	88.8	71.9	67.7
57,5°	577.9	484.7	425.9	390.5	364.8	354.5	422.3	294.4	200.2	147.1	110.1	86.5	76.1
60,0°	351.0	288.2	242.2	207.0	181.1	173.8	495.8	349.8	239.8	173.3	127.8	98.5	84.3
62,5°	196.1	156.4	115.6	85.6	69.7	74.4	480.8	347.5	247.8	181.6	135.9	106.0	90.6
65,0°	100.6	78.5	46.7	41.6	38.9	38.1	316.1	238.2	187.4	143.3	115.4	97.1	87.3
67,5°	55.1	50.6	41.2	38.3	34.3	32.5	105.3	78.6	92.0	81.1	74.4	71.1	71.0
70,0°	45.1	39.2	33.6	30.6	27.3	25.3	35.1	30.6	34.0	41.3	43.2	46.3	51.7
72,5°	37.2	32.9	28.3	25.3	22.7	20.3	23.4	24.0	24.3	26.9	28.2	31.6	37.1
75,0°	29.0	26.7	22.7	19.9	19.3	17.0	20.3	17.9	18.7	20.4	21.0	23.9	27.9
77,5°	21.1	19.3	17.1	15.6	14.5	12.9	18.2	14.4	14.4	15.5	15.4	17.1	19.8
80,0°	13.9	12.7	11.3	10.4	9.4	8.6	11.9	12.3	9.7	11.4	11.2	12.0	13.1
82,5°	8.2	7.6	7.1	6.4	5.7	5.4	6.4	10.7	6.2	7.6	7.3	7.3	7.8
85,0°	3.7	3.7	3.5	3.0	2.6	2.5	2.9	5.9	3.4	3.5	3.4	3.4	3.8
87,5°	0.8	0.7	0.7	0.6	0.6	0.6	1.2	1.5	1.3	1.4	1.4	1.4	1.5
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeCO</b>

C-planes	220° 320°	225° 315°	230° 310°	235° 305°	240° 300°	245° 295°	250° 290°	255° 285°	260° 280°	265° 275°	270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0,0°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	0.2	0.2
2,5°	150.1	149.4	148.7	148.2	147.7	147.3	147.0	146.7	146.4	146.3	146.4	1.9	2.1
5,0°	142.9	141.3	139.6	138.1	136.8	135.8	134.9	134.1	133.6	133.2	133.2	3.7	5.8
7,5°	136.6	133.7	130.8	128.4	126.1	124.2	122.5	121.2	120.3	119.7	119.6	5.6	11.4
10,0°	129.7	125.6	121.6	118.1	114.9	112.3	110.1	108.3	107.0	106.2	106.0	7.5	18.9
12,5°	122.3	117.0	112.0	107.4	103.3	99.8	96.8	94.6	92.9	92.0	91.7	9.3	28.2
15,0°	113.9	107.5	101.5	96.2	91.8	88.0	85.0	82.6	81.0	80.0	79.7	11.1	39.3
17,5°	104.5	97.7	91.5	86.2	81.6	77.5	74.0	71.2	69.2	68.1	67.8	12.9	52.3
20,0°	96.0	89.1	82.5	75.4	68.6	63.5	60.1	58.0	56.8	56.2	56.0	14.7	67.0
22,5°	88.6	80.3	70.2	61.8	57.5	55.7	54.6	53.8	53.3	53.0	53.0	16.7	83.7
25,0°	81.1	69.0	59.9	56.2	54.9	54.0	53.2	52.5	52.1	51.8	51.8	18.8	102.5
27,5°	68.9	58.8	55.8	54.7	53.9	53.2	52.6	52.0	51.5	51.2	51.2	21.2	123.7
30,0°	58.7	55.9	54.8	54.2	53.6	52.9	52.3	51.7	51.2	50.9	50.8	23.6	147.3
32,5°	56.2	55.0	54.4	54.0	53.4	52.9	52.3	51.7	51.2	50.8	50.8	26.1	173.4
35,0°	55.4	54.5	54.1	53.9	53.5	53.2	52.8	52.2	51.5	51.1	51.0	28.6	202.0
37,5°	55.0	54.2	54.0	54.1	54.1	54.0	53.6	52.9	52.2	51.6	51.5	31.0	233.0
40,0°	54.3	53.9	54.1	54.7	55.0	55.1	54.9	54.2	53.4	52.4	52.2	33.3	266.3
42,5°	53.7	53.9	54.5	55.5	56.3	56.8	56.8	56.0	54.7	53.4	52.9	36.0	302.3
45,0°	53.7	54.1	55.5	56.9	58.2	59.0	59.0	57.8	56.2	54.4	53.7	41.1	343.4
47,5°	54.7	54.8	56.7	58.3	59.9	61.1	61.2	59.5	57.4	55.1	54.2	50.3	393.8
50,0°	57.5	57.0	58.4	59.7	61.8	63.4	63.3	61.0	58.0	55.4	54.4	64.1	457.9
52,5°	61.5	60.0	60.1	61.2	63.5	65.0	64.7	61.9	58.2	55.1	54.1	80.0	537.8
55,0°	66.0	63.3	61.4	62.1	64.4	66.0	65.5	62.2	58.3	54.6	53.7	93.3	631.1
57,5°	71.2	67.1	63.3	63.0	65.1	66.5	65.8	62.2	57.8	53.9	53.2	98.8	729.9
60,0°	76.7	70.2	65.0	63.6	65.1	66.2	64.8	60.9	56.1	52.1	52.0	92.1	822.0
62,5°	80.1	71.9	65.9	63.1	63.6	63.8	61.8	58.0	54.1	50.5	51.4	72.6	894.5
65,0°	77.8	70.7	64.4	60.4	59.6	59.5	57.3	54.0	51.0	47.3	47.6	45.7	940.2
67,5°	68.6	64.3	59.3	55.5	54.0	53.4	51.3	48.0	43.7	45.1	64.2	21.9	962.1
70,0°	54.2	53.8	50.6	47.9	46.9	45.9	43.9	40.6	36.7	36.5	58.9	11.5	973.6
72,5°	41.2	42.2	41.3	39.8	38.7	37.9	36.1	32.7	29.4	28.7	34.9	8.3	981.9
75,0°	31.2	32.5	32.8	32.1	31.5	30.8	29.0	25.2	23.1	22.3	23.2	6.5	988.4
77,5°	22.1	24.0	24.4	24.1	24.0	24.0	22.2	18.4	16.4	15.3	15.3	4.9	993.3
80,0°	14.9	16.0	16.3	16.1	16.3	16.9	15.3	12.2	10.7	9.5	9.3	3.3	996.6
82,5°	8.9	9.6	9.8	9.6	9.6	9.5	8.5	7.3	6.4	5.6	5.2	2.1	998.7
85,0°	4.3	4.6	4.6	4.6	4.6	4.3	3.8	3.5	3.1	2.7	2.6	1.0	999.7
87,5°	1.5	1.6	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.3	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>siteco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	36680	270.2	286.6	278.4
95	241	252	34803	251.6	266.7	259.2
90	229	250	33070	235.3	249.2	242.2
85	216	248	31192	218.2	231.1	224.6
80	203	246	29315	201.9	213.7	207.8
75	190	243	27438	186.3	197.0	191.6
70	178	241	25705	172.3	182.2	177.2
65	165	238	23828	157.7	166.7	162.2
60	152	235	21950	143.6	151.7	147.6
55	140	232	20217	130.9	138.3	134.6
50	127	229	18340	117.4	124.1	120.8
45	114	225	16463	104.2	110.3	107.2
40	102	221	14730	92.4	97.6	95.0
35	89	216	12852	80.0	84.4	82.2
30	76	210	10975	67.9	71.6	69.8
25	63	203	9098	56.2	59.2	57.7
20	51	195	7365	45.8	48.1	47.0
15	38	184	5488	34.7	36.5	35.6
12	31	177	4477	28.8	30.3	29.6