

## Photometric test report

Family  
**Floodlight 20 LED mini**

Order number: **5XA7671B2A1A**  
EAN: **4050737822761**

LP number  
**55301\_1**



Version	standard bracket
Reflector	asymmetric distribution PL43
Cover	toughened safety glass
Lamps	LED 4000K / CRI ≥ 70 Net luminous flux = 6220 lm
Electr. supply	ECG Power consumption = 56.0 W Luminous efficacy = 111.1 lm/W

series documentation  
**08.05.2015**

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Luminous intensity in cd/klm

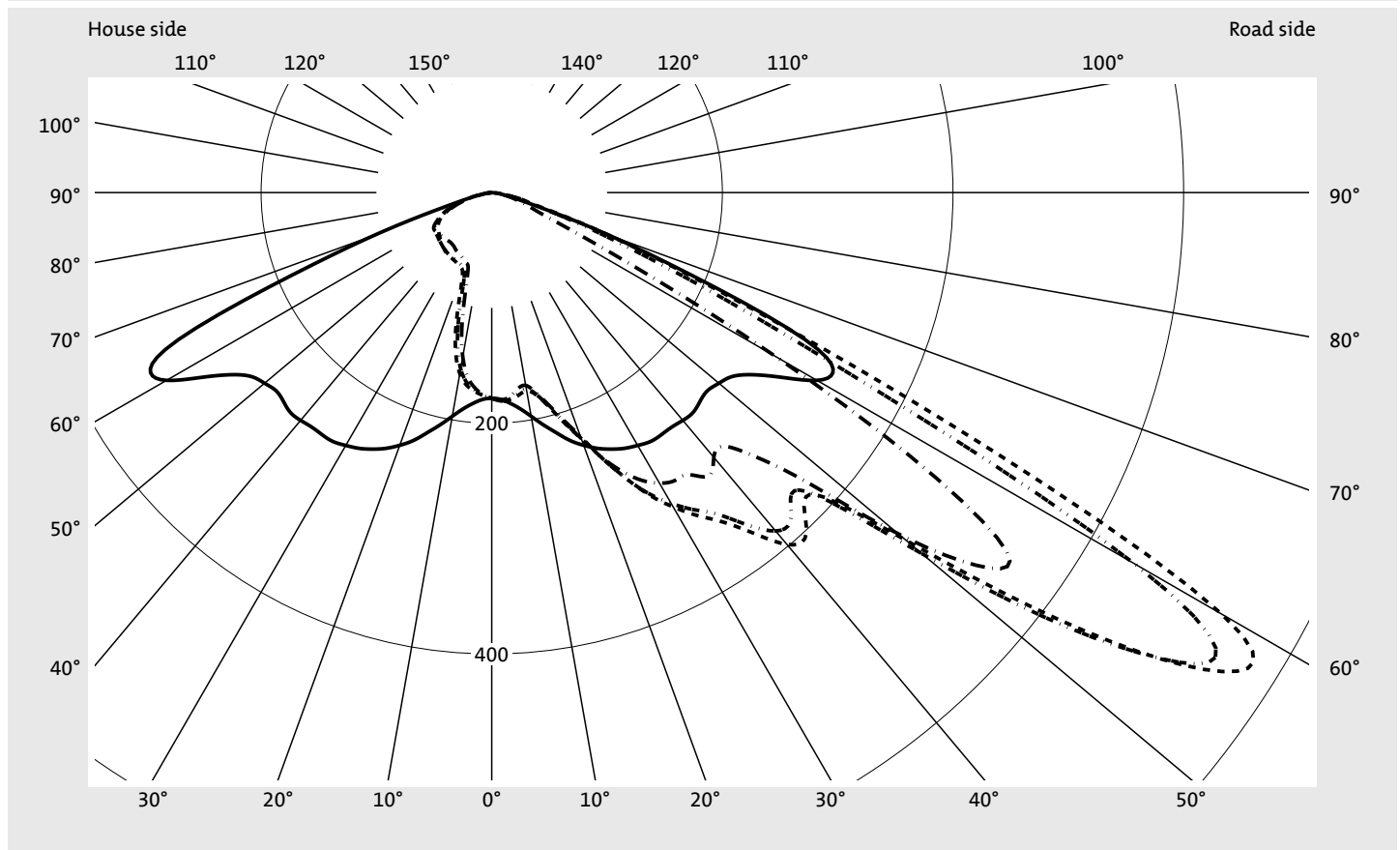
**C180-0**

**C240-60**

**C245-65**

**C270-90**

**Imax: 771 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°	238.4
Imax 80°	14.9
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

### Measurement conditions

DIN EN 13032 and DIN 5032

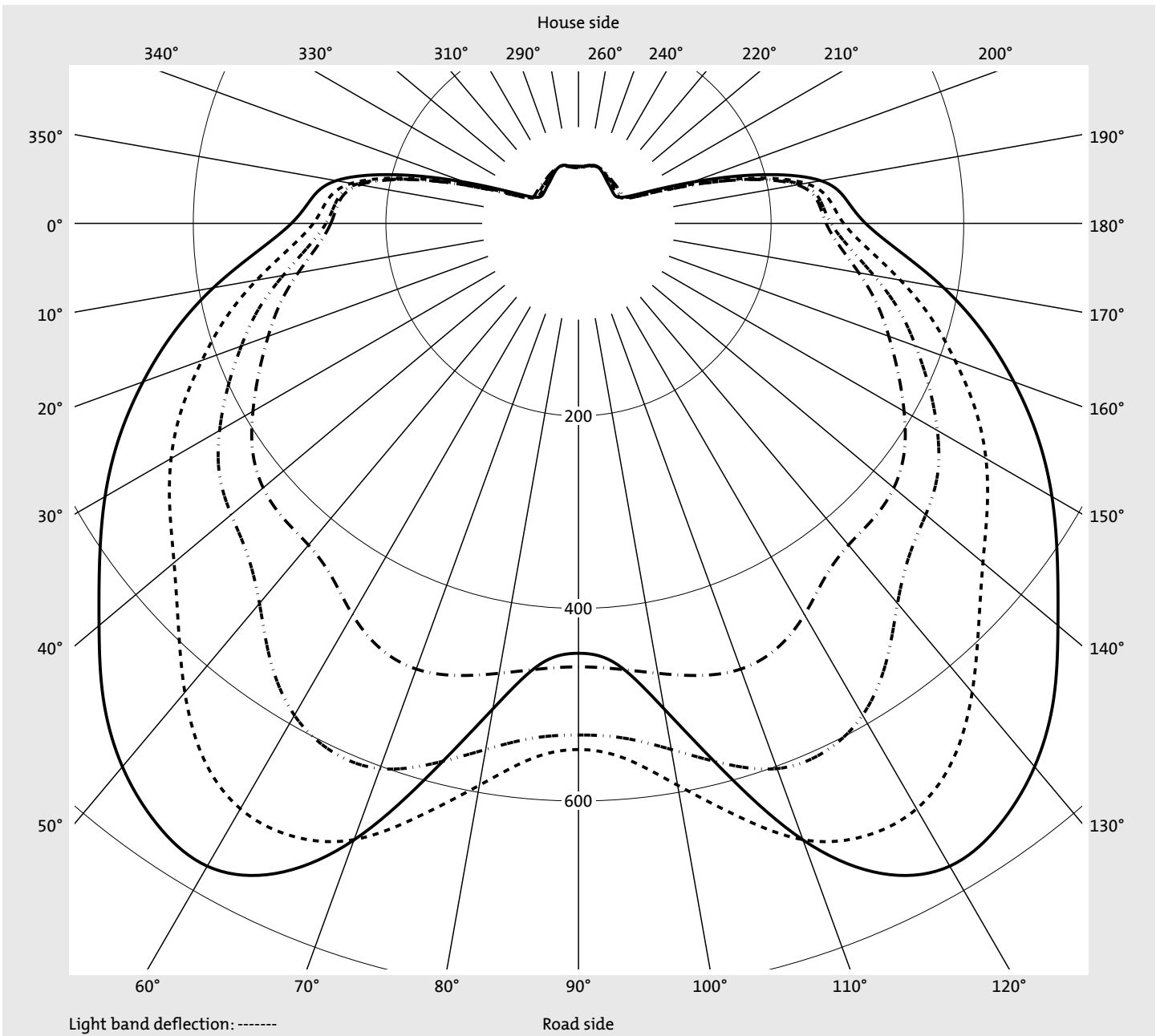
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**Envelope curve in cd/klm**      **KMK 57.5°**    **KMK 55°**    **KMK 52.5°**    **KMK 50°**



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<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>
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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°
$\gamma$	Luminous intensity in cd/klm												
0,0°	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4
2,5°	179.5	179.5	179.7	180.0	180.2	180.7	180.8	180.8	180.8	181.0	181.0	181.0	180.8
5,0°	183.4	183.9	184.0	184.4	184.5	184.5	184.4	183.9	183.4	182.9	182.0	181.4	180.3
7,5°	189.1	189.7	189.9	189.9	189.6	188.9	187.6	186.0	184.4	182.7	181.0	179.2	177.3
10,0°	197.0	197.3	197.3	196.6	195.3	193.1	190.6	187.6	184.4	181.5	179.0	176.5	174.5
12,5°	206.2	206.7	206.0	204.2	201.5	197.6	193.4	189.6	186.2	183.7	182.0	180.8	180.0
15,0°	215.4	215.7	214.1	211.2	207.0	202.3	198.3	195.1	193.4	193.1	192.9	192.6	192.4
17,5°	225.3	224.6	221.9	217.9	212.7	208.5	206.3	206.2	207.0	208.0	209.2	209.4	209.2
20,0°	233.2	231.8	228.3	223.5	219.3	217.3	218.1	220.4	223.1	225.3	226.6	227.3	227.3
22,5°	240.1	238.4	233.9	229.3	226.6	227.7	231.7	236.2	240.4	243.3	245.6	247.3	248.5
25,0°	245.4	242.9	238.1	235.7	236.0	239.6	245.4	251.3	256.3	260.9	265.2	269.3	272.1
27,5°	250.0	247.1	242.9	242.4	245.9	252.5	259.5	266.1	272.8	280.0	286.9	292.7	295.4
30,0°	253.2	250.6	248.3	250.1	255.8	264.4	272.3	280.2	288.5	299.0	308.3	313.5	314.7
32,5°	256.0	254.3	254.5	258.4	266.4	276.1	285.4	295.3	307.2	319.6	329.7	333.7	332.0
35,0°	256.3	257.5	261.7	267.9	277.8	288.7	299.6	312.5	328.1	341.7	350.5	353.0	348.4
37,5°	256.3	260.4	269.1	278.7	290.4	302.5	316.1	332.8	351.8	367.1	374.9	376.6	371.9
40,0°	257.8	265.9	279.3	293.4	307.3	321.4	338.4	359.5	381.0	397.8	407.7	407.3	398.3
42,5°	258.5	267.4	284.2	301.8	319.2	336.5	357.0	381.8	403.1	416.7	421.2	415.4	403.3
45,0°	255.7	265.1	281.0	298.3	315.4	331.8	351.8	373.3	390.9	400.1	402.1	394.7	383.0
47,5°	254.0	265.2	284.2	304.5	322.9	340.7	362.9	384.2	400.8	408.5	405.1	394.9	390.7
50,0°	257.2	272.3	295.6	320.6	342.9	366.1	390.4	413.0	427.5	433.3	436.2	447.4	469.4
52,5°	262.2	282.0	311.4	343.9	372.6	401.6	430.3	455.1	470.7	486.3	515.4	556.8	590.0
55,0°	275.3	301.6	339.4	379.0	416.0	454.3	488.5	518.0	548.2	587.8	636.0	678.8	702.2
57,5°	298.1	334.9	385.0	434.5	481.1	526.3	567.7	607.0	649.9	697.9	736.8	762.5	771.0
60,0°	325.6	373.6	437.0	496.9	549.9	597.2	637.5	676.9	713.7	740.8	762.3	766.7	731.1
62,5°	333.8	394.7	466.7	529.1	583.1	626.8	653.8	670.9	677.1	679.1	666.7	613.7	511.0
65,0°	295.9	350.5	418.1	476.3	519.4	552.1	564.5	559.3	541.7	510.2	452.8	376.6	304.0
67,5°	189.2	237.7	289.6	330.8	361.5	384.7	392.2	380.3	349.6	305.3	257.5	216.4	178.8
70,0°	109.0	132.7	158.7	189.9	214.1	230.3	238.4	228.2	204.7	173.8	148.8	129.7	108.4
72,5°	51.3	54.2	51.0	64.3	106.4	124.8	124.6	118.8	102.3	83.9	73.6	66.1	57.4
75,0°	26.2	23.7	23.5	26.2	37.9	59.4	63.1	56.4	43.6	34.4	36.7	36.1	33.0
77,5°	14.9	15.1	15.4	16.8	19.8	26.2	27.8	24.3	20.5	20.0	21.3	22.3	24.0
80,0°	9.6	9.6	10.1	10.7	12.1	13.6	14.3	13.8	13.4	13.3	13.4	13.4	14.3
82,5°	5.5	5.9	6.2	6.7	7.2	7.9	8.6	8.7	8.7	8.6	8.4	8.1	7.9
85,0°	2.9	2.7	2.9	3.0	3.4	3.7	4.2	4.2	4.2	4.0	3.7	3.7	3.5
87,5°	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8
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
180,0°	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>
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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°
$\gamma$	Luminous intensity in cd/klm												
0,0°	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4
2,5°	180.8	180.7	180.5	180.2	180.0	179.8	179.3	179.2	179.0	178.7	178.3	178.2	177.8
5,0°	179.8	179.2	178.7	178.2	177.8	177.8	183.0	182.5	181.9	181.2	180.2	179.2	178.2
7,5°	175.8	174.5	173.5	172.5	172.1	171.8	188.6	187.7	186.4	184.9	183.0	181.2	179.2
10,0°	173.0	171.8	170.8	170.1	169.9	169.8	195.9	194.6	192.8	190.4	187.6	184.4	180.8
12,5°	179.3	178.8	178.3	178.2	178.0	177.8	205.2	203.2	200.6	197.3	193.1	188.1	182.4
15,0°	192.1	191.9	191.8	191.6	190.9	190.6	214.2	211.9	208.4	203.7	197.6	190.2	181.2
17,5°	208.7	208.0	207.7	207.4	207.0	206.7	223.6	220.8	216.4	210.4	201.8	190.9	177.2
20,0°	226.8	226.0	225.8	225.6	225.5	225.1	231.7	228.7	223.1	215.1	203.5	187.9	165.9
22,5°	248.6	248.1	248.0	248.1	248.1	247.6	238.9	235.5	229.0	218.8	202.8	178.2	146.1
25,0°	272.4	270.3	268.3	267.6	266.9	266.4	244.4	240.4	232.5	218.8	194.3	158.5	122.0
27,5°	293.9	289.9	285.7	283.7	282.5	281.2	249.5	245.1	235.7	216.4	178.3	134.2	97.6
30,0°	311.0	304.7	298.4	295.3	292.9	290.9	253.3	248.0	235.9	206.8	159.0	112.6	81.7
32,5°	326.0	317.2	309.9	305.7	300.3	295.9	255.7	250.0	234.7	193.9	137.7	92.6	71.8
35,0°	340.2	330.3	321.4	314.9	306.0	298.6	256.2	250.1	226.0	174.1	115.8	77.8	67.6
37,5°	362.9	353.0	343.1	332.3	317.7	309.7	256.2	249.8	217.8	156.7	96.3	68.8	65.1
40,0°	383.0	367.7	347.6	323.9	306.2	299.6	256.2	245.8	203.8	138.4	85.4	65.4	62.9
42,5°	384.0	362.5	338.0	314.7	302.6	298.3	255.3	243.3	195.4	126.0	77.0	62.1	60.7
45,0°	368.2	355.2	343.2	332.3	326.8	324.1	251.8	236.0	185.5	118.3	73.8	59.7	58.5
47,5°	395.2	395.9	391.1	382.0	375.6	373.1	249.5	234.4	181.2	111.9	68.8	57.0	56.4
50,0°	487.2	492.7	486.2	474.6	464.7	460.7	249.8	230.7	175.0	108.5	67.6	55.0	54.2
52,5°	605.4	602.8	580.8	555.0	536.7	531.5	252.8	234.2	176.0	107.0	64.9	53.0	52.0
55,0°	702.4	681.3	637.3	592.7	558.1	546.6	262.5	239.6	180.7	112.9	68.8	52.7	50.2
57,5°	745.2	681.6	591.2	512.2	459.8	446.6	279.3	255.5	195.1	124.6	76.2	54.7	48.3
60,0°	643.5	528.4	426.6	347.9	300.1	284.5	297.3	265.2	206.0	141.3	92.1	63.6	49.2
62,5°	401.6	305.5	234.9	184.5	151.5	143.3	299.1	265.9	210.7	152.0	106.0	72.8	51.3
65,0°	240.9	181.7	131.7	93.9	73.8	70.5	256.8	225.3	185.5	144.9	106.7	75.8	53.5
67,5°	144.8	106.9	61.7	48.1	44.6	43.3	148.6	130.0	130.2	112.9	88.7	63.6	49.7
70,0°	87.9	67.4	46.0	38.4	35.2	33.9	63.2	55.2	64.4	66.8	56.4	47.1	41.6
72,5°	48.1	42.3	34.7	29.7	26.8	25.5	31.0	26.0	30.9	35.1	32.2	30.2	29.2
75,0°	32.9	32.5	27.7	23.0	20.5	19.5	20.1	18.8	20.8	21.8	21.1	20.5	20.3
77,5°	25.7	24.3	19.6	16.3	14.6	13.8	13.8	13.1	14.1	14.8	14.4	13.9	13.9
80,0°	14.9	13.9	12.2	10.6	9.4	8.7	8.9	8.7	9.1	9.2	9.1	8.9	8.7
82,5°	7.7	7.2	6.9	5.9	5.2	5.0	5.5	5.4	5.5	5.5	5.5	5.4	5.4
85,0°	3.2	2.7	2.5	2.2	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87,5°	0.8	0.8	0.7	0.7	0.7	0.7	1.0	1.0	1.2	1.0	1.2	1.0	1.0
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	0.0
180,0°	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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Table of values for luminous intensities												Maximum luminous intensity	
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
$\gamma$	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0,0°	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	0.3	0.3
2,5°	177.7	177.2	176.7	176.3	176.0	175.6	175.3	175.1	175.1	175.3	175.5	2.1	2.4
5,0°	177.0	176.0	174.8	173.8	172.8	171.6	170.8	170.1	169.9	169.8	169.8	4.3	6.7
7,5°	177.2	175.0	172.6	170.4	168.3	166.1	164.1	162.6	161.7	161.2	161.1	6.4	13.1
10,0°	176.8	172.6	168.1	163.7	159.4	155.2	151.5	148.5	146.3	144.9	144.6	8.4	21.5
12,5°	175.5	168.1	159.9	151.7	143.8	136.9	130.9	126.2	122.6	120.5	119.8	10.5	32.0
15,0°	170.6	158.7	145.8	132.2	119.8	109.4	101.5	95.3	90.8	88.4	87.6	12.5	44.5
17,5°	159.7	139.4	120.1	104.0	90.6	80.7	75.0	71.6	69.6	68.6	68.1	14.6	59.1
20,0°	139.4	115.1	95.3	81.5	74.0	70.5	68.6	67.1	66.1	65.4	65.1	16.9	76.0
22,5°	115.9	92.4	78.5	72.5	70.0	68.3	66.8	65.4	64.3	63.4	63.1	19.5	95.5
25,0°	93.4	77.5	72.0	70.1	68.6	67.1	65.6	64.3	62.9	61.7	61.4	22.1	117.6
27,5°	76.8	71.3	70.0	68.8	67.6	66.3	64.8	63.2	61.9	60.6	60.1	24.9	142.5
30,0°	71.0	69.3	68.3	67.8	66.9	65.9	64.4	62.9	61.4	59.9	59.4	27.5	170.0
32,5°	68.3	67.4	67.1	66.9	66.4	65.6	64.4	62.6	60.7	59.1	58.4	30.2	200.2
35,0°	66.4	65.9	65.9	66.1	65.9	65.3	63.9	61.9	60.1	58.0	57.0	32.9	233.2
37,5°	64.4	64.4	64.8	65.1	65.3	64.6	63.2	61.4	59.4	57.2	56.4	36.1	269.2
40,0°	62.6	62.9	63.6	63.7	64.1	63.7	62.7	61.1	59.1	57.0	56.0	39.2	308.4
42,5°	60.6	61.2	61.7	62.4	62.9	63.1	62.6	61.1	59.4	57.4	56.4	41.6	350.0
45,0°	58.7	59.1	59.9	60.7	61.6	62.2	62.1	61.2	59.7	57.5	56.7	42.8	392.7
47,5°	56.7	57.2	58.0	59.1	60.4	61.6	61.9	61.2	59.6	57.9	57.0	46.2	438.9
50,0°	54.5	55.4	56.0	57.4	59.1	60.7	61.7	61.6	59.9	58.2	57.7	52.9	491.8
52,5°	52.3	53.3	54.4	55.7	57.7	60.1	61.7	61.7	60.6	59.1	58.4	61.4	553.2
55,0°	50.3	51.2	52.3	54.2	56.5	59.4	61.6	62.2	61.2	59.7	59.1	70.7	623.9
57,5°	47.8	48.8	50.5	52.3	55.2	58.5	61.6	62.4	60.7	59.6	59.4	77.6	701.6
60,0°	45.5	46.1	48.0	50.2	53.3	56.9	60.1	60.4	58.9	57.9	57.7	78.3	779.9
62,5°	43.3	42.9	44.6	47.0	50.5	53.9	57.0	56.4	54.7	53.7	53.7	70.5	850.4
65,0°	43.3	39.9	41.3	43.6	46.5	49.7	51.7	51.3	49.5	48.1	48.3	56.7	907.2
67,5°	41.6	36.9	37.1	39.3	41.8	44.3	45.3	44.5	41.9	41.3	41.3	38.4	945.6
70,0°	36.7	32.9	32.5	34.6	36.7	38.6	38.8	36.9	34.7	34.4	34.6	23.8	969.4
72,5°	27.2	26.2	26.8	28.7	30.5	31.7	31.0	28.5	26.8	27.7	27.8	13.0	982.3
75,0°	20.0	20.3	21.3	22.8	24.0	24.7	23.3	21.3	20.0	20.0	20.1	7.5	989.8
77,5°	13.9	14.1	14.9	16.1	17.1	17.3	15.9	13.9	12.8	12.2	12.1	4.7	994.5
80,0°	8.9	9.1	9.4	9.7	10.4	10.2	9.1	7.7	7.2	6.5	7.0	2.9	997.4
82,5°	5.4	5.4	5.4	5.7	5.5	5.0	4.4	3.9	3.9	3.4	3.4	1.7	999.0
85,0°	2.5	2.5	2.3	2.3	2.3	2.2	1.8	1.7	1.7	1.5	1.7	0.8	999.8
87,5°	1.0	1.0	1.0	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	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
180,0°	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