

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623724

Luminaire Tested: **IFLD-S-SA2A-760-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623724
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-760-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

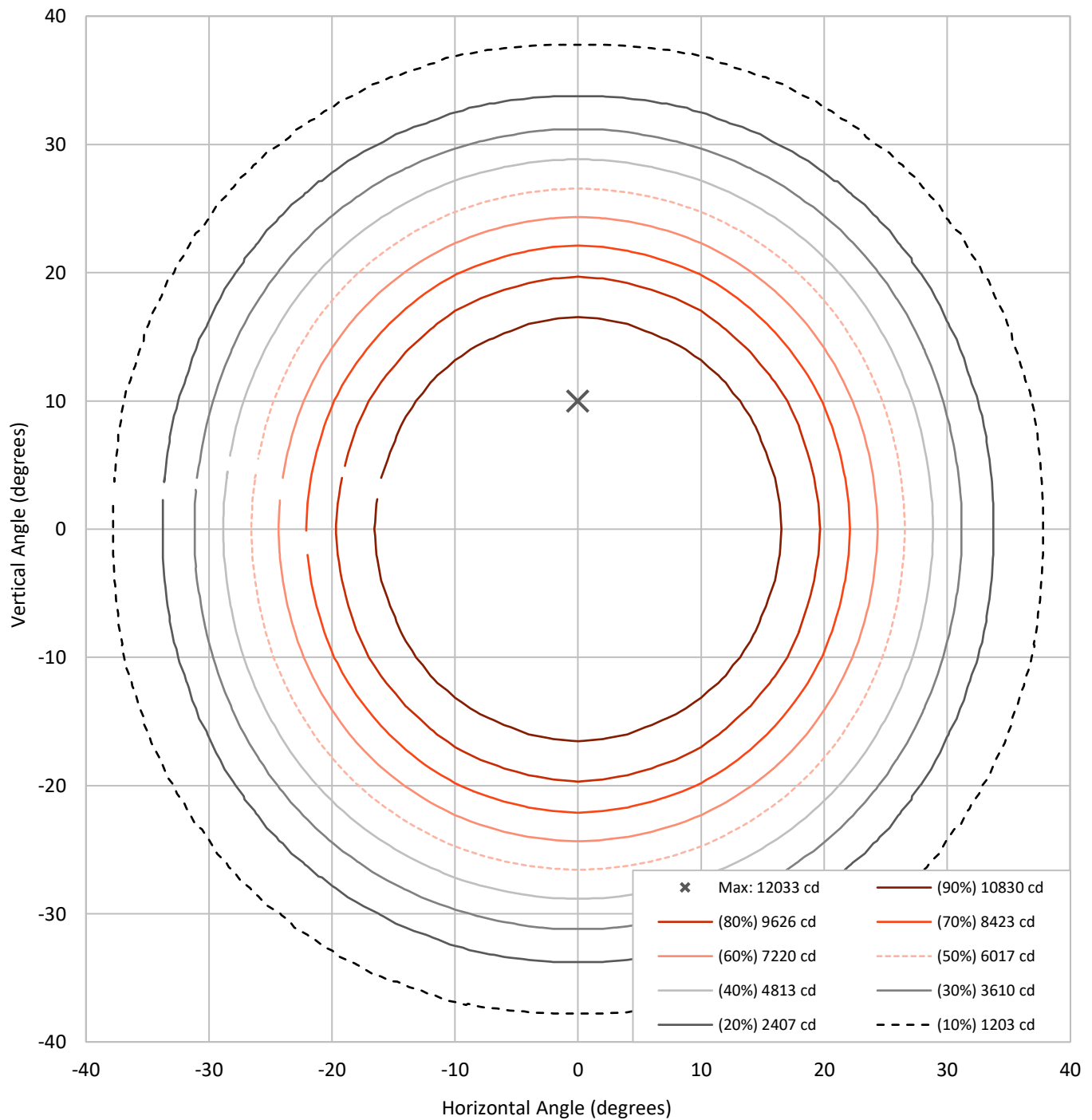
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	9846.7 lumens	Max Intensity:	12033 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	154.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	4894 lumens	Field Lumens:	6364.8 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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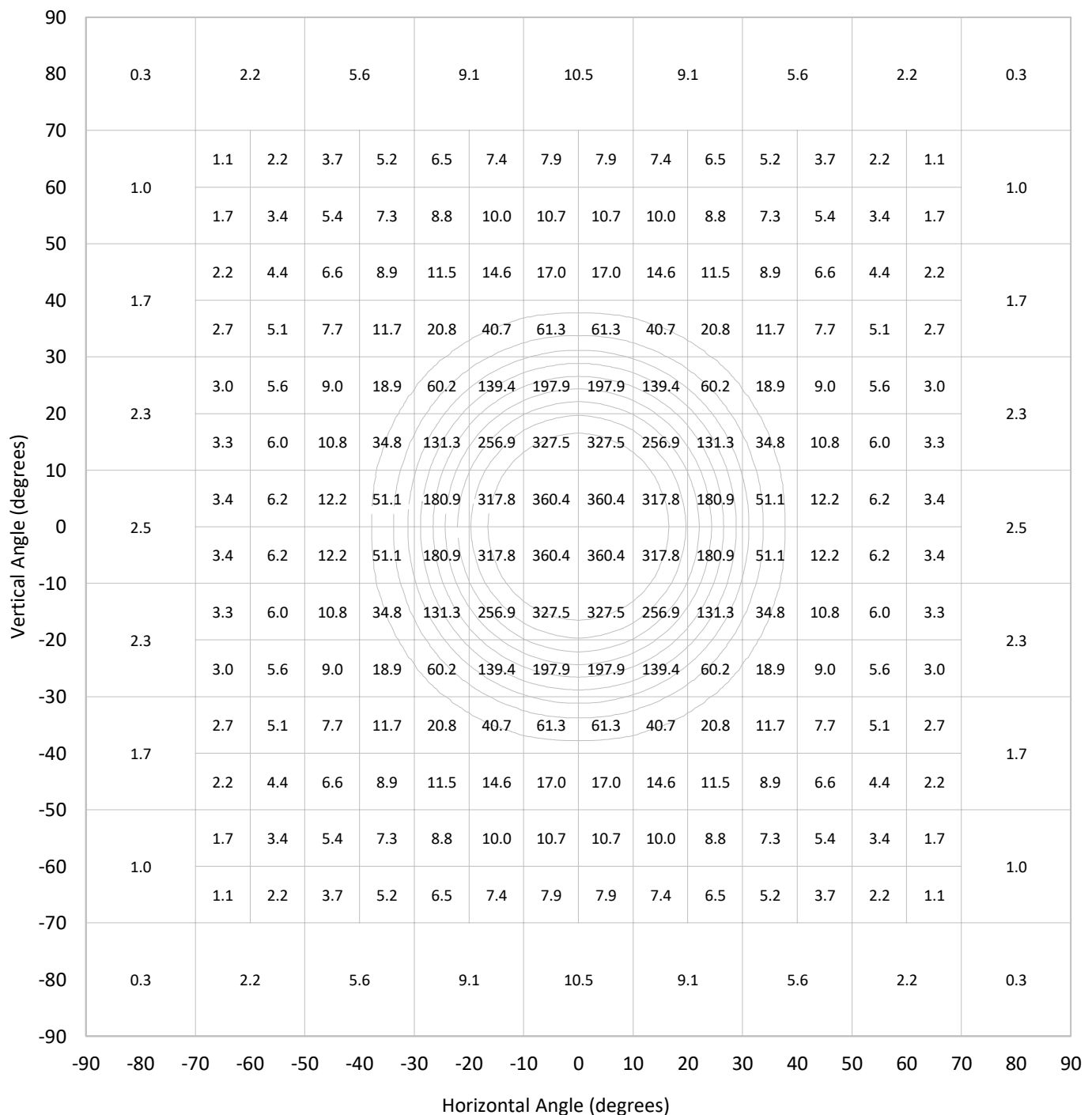
Iso-Candela Plot



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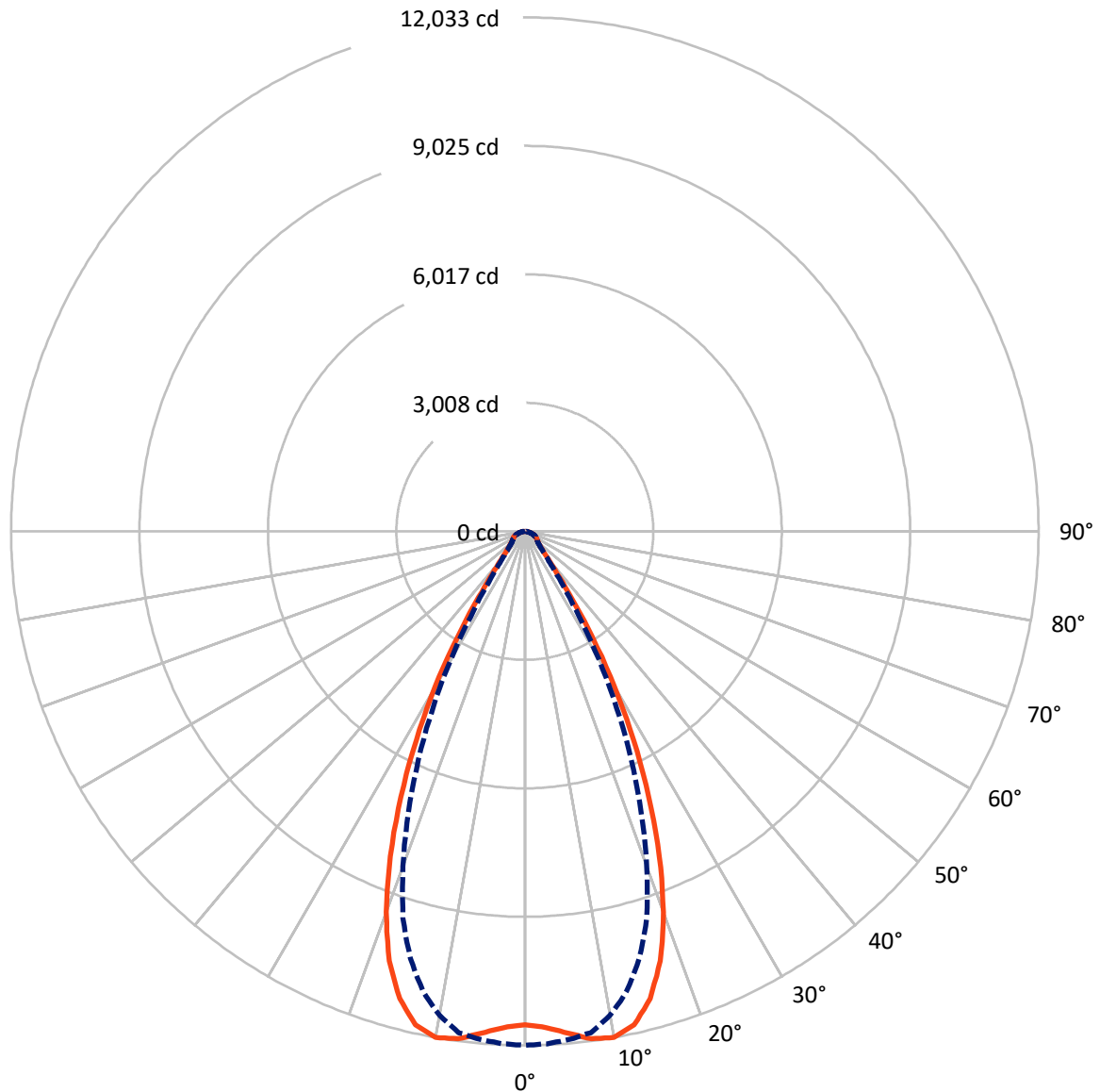
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Lumen Table



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Luminous Intensity Polar Plot

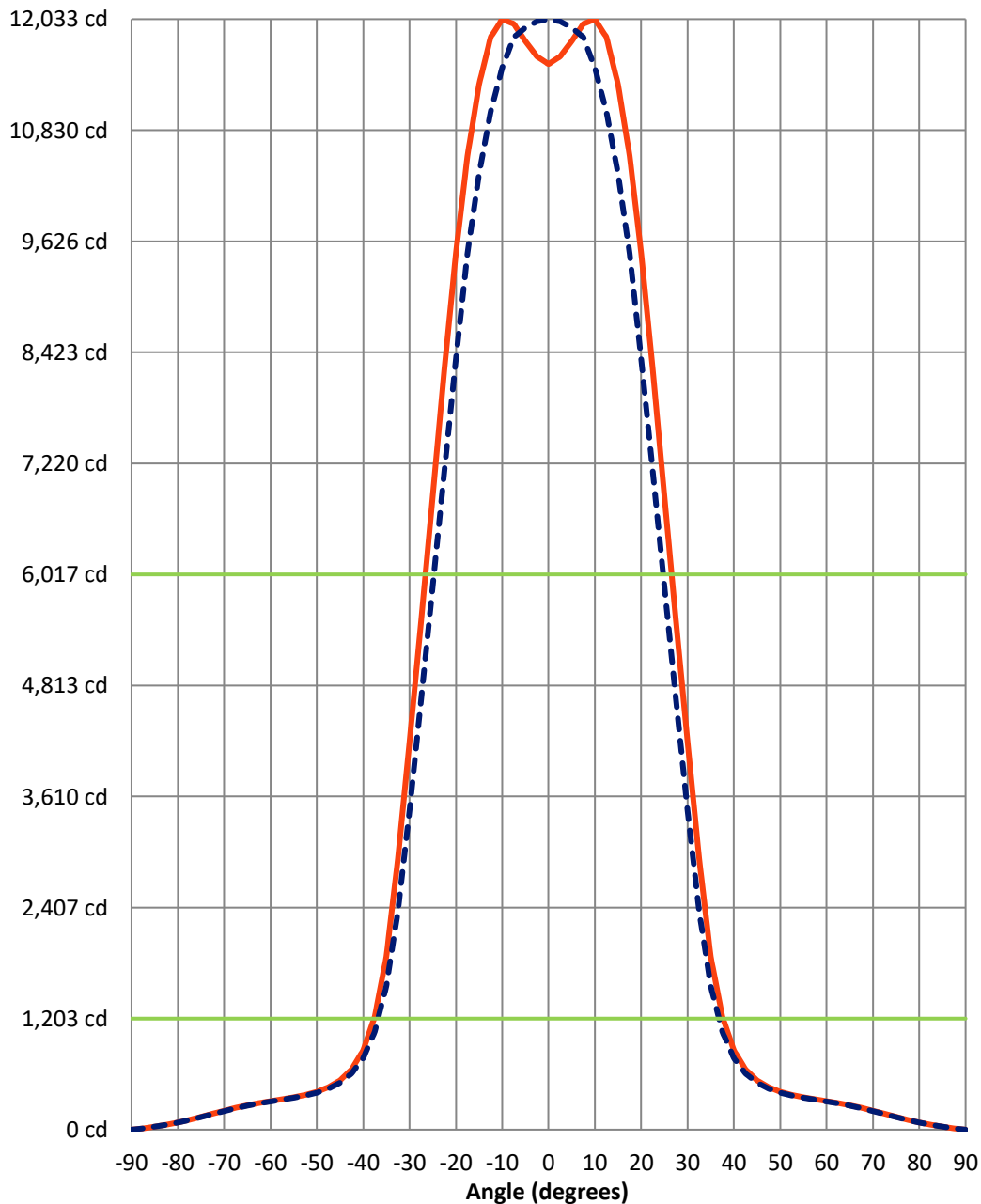


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 4894
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 6364.8
Efficiency: 64.6%

Spill:

Lumens: 3481.8
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-Deg

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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.3	12.3	12.3	12.3
85°	32.7	32.7	32.7	32.7	32.7	31.7	31.7	30.7	30.7	29.7	28.6
82.5°	53.2	53.2	53.2	53.2	52.2	52.2	51.1	50.1	49.1	48.1	47.1
80°	77.7	77.7	77.7	77.7	76.7	75.7	74.7	73.6	71.6	70.6	68.5
77.5°	106.4	106.4	106.4	105.4	104.3	103.3	101.3	99.2	97.2	95.1	93.1
75°	139.1	139.1	139.1	137.1	136.0	134.0	132.0	129.9	126.8	123.8	120.7
72.5°	172.9	172.9	172.9	170.8	168.8	166.7	164.7	161.6	158.5	154.5	150.4
70°	204.6	204.6	204.6	202.5	200.5	198.4	195.4	192.3	188.2	184.1	180.0
67.5°	237.3	237.3	237.3	234.2	232.2	230.1	227.1	223.0	218.9	213.8	208.7
65°	263.9	263.9	262.9	261.9	259.8	256.7	254.7	250.6	246.5	242.4	237.3
62.5°	288.4	288.4	287.4	286.4	284.4	281.3	278.2	275.2	271.1	265.9	260.8
60°	308.9	308.9	307.9	306.9	304.8	302.8	299.7	296.6	292.5	288.4	283.3
57.5°	329.4	329.4	328.3	327.3	325.3	322.2	319.1	316.1	312.0	306.9	301.7
55°	350.8	350.8	349.8	347.8	345.7	342.7	339.6	335.5	330.4	325.3	320.2
52.5°	376.4	376.4	374.4	372.3	369.3	366.2	361.1	356.0	349.8	343.7	337.5
50°	410.2	410.2	408.1	405.1	399.9	394.8	388.7	380.5	373.3	365.2	357.0
47.5°	460.3	460.3	456.2	451.1	443.9	435.7	424.5	412.2	402.0	391.8	379.5
45°	533.9	533.9	527.8	519.6	508.4	494.0	477.7	460.3	442.9	425.5	408.1
42.5°	653.6	653.6	642.4	628.0	608.6	584.1	553.4	524.7	500.2	472.6	449.0
40°	860.2	860.2	838.8	812.2	775.3	728.3	672.0	627.0	584.1	536.0	503.3
37.5°	1227.4	1227.4	1185.5	1134.4	1062.8	972.7	864.3	791.7	711.9	636.2	581.0
35°	1875.9	1875.9	1795.1	1695.9	1557.8	1383.9	1198.8	1061.7	909.3	792.7	689.4
32.5°	2939.7	2939.7	2794.5	2615.5	2369.0	2057.0	1760.4	1499.5	1227.4	1034.1	848.0
30°	4204.0	4204.0	4013.7	3779.5	3458.3	3053.3	2630.8	2167.5	1737.9	1393.1	1111.9
27.5°	5511.2	5457.0	5293.3	5026.4	4660.2	4204.0	3677.2	3078.8	2497.8	1890.3	1488.3
25°	6863.4	6800.0	6612.8	6306.0	5886.6	5370.1	4776.8	4107.8	3390.8	2666.6	1971.1
22.5°	8230.0	8158.4	7945.6	7598.9	7128.4	6549.4	5877.4	5133.8	4332.9	3496.2	2666.6
20°	9493.2	9417.5	9194.6	8833.5	8346.6	7711.4	6964.7	6140.3	5254.5	4332.9	3390.8
17.5°	10550.9	10478.3	10263.5	9918.8	9493.2	8790.5	8014.2	7107.9	6140.3	5133.8	4107.8
15°	11323.2	11260.8	11077.7	10788.2	10354.5	9732.6	8941.9	8014.2	6964.7	5877.4	4776.8
12.5°	11835.6	11785.5	11641.3	11416.2	11027.5	10505.9	9732.6	8790.5	7711.4	6549.4	5370.1
10°	12033.0	12008.5	11941.0	11837.7	11506.2	11027.5	10354.5	9493.2	8346.6	7128.4	5886.6
7.5°	11980.9	11989.0	12012.6	11986.0	11837.7	11416.2	10788.2	9918.8	8833.5	7598.9	6306.0
5°	11794.7	11838.7	11948.1	12012.6	11941.0	11641.3	11077.7	10263.5	9194.6	7945.6	6612.8
2.5°	11629.0	11697.5	11838.7	11989.0	12008.5	11785.5	11260.8	10478.3	9417.5	8158.4	6800.0
0°	11547.2	11629.0	11794.7	11980.9	12033.0	11835.6	11323.2	10550.9	9493.2	8230.0	6863.4

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	11.3	11.3	11.3	10.2	10.2	10.2	9.2	9.2	8.2	8.2
85°	28.6	27.6	26.6	25.6	24.5	23.5	22.5	21.5	20.5	18.4	17.4
82.5°	46.0	45.0	44.0	41.9	40.9	38.9	36.8	34.8	32.7	31.7	29.7
80°	66.5	64.4	62.4	60.3	57.3	54.2	52.2	49.1	47.1	44.0	41.9
77.5°	90.0	86.9	83.9	79.8	76.7	73.6	69.6	66.5	62.4	58.3	54.2
75°	116.6	112.5	107.4	103.3	99.2	94.1	89.0	83.9	78.8	73.6	68.5
72.5°	145.2	140.1	135.0	129.9	123.8	116.6	110.5	103.3	97.2	91.0	83.9
70°	174.9	168.8	162.6	156.5	149.3	141.2	134.0	125.8	117.6	109.4	101.3
67.5°	202.5	196.4	189.2	183.1	174.9	166.7	157.5	148.3	139.1	128.9	118.7
65°	231.2	224.0	215.8	207.6	199.5	190.3	181.0	171.8	160.6	149.3	139.1
62.5°	254.7	248.6	241.4	233.2	224.0	213.8	204.6	192.3	181.0	169.8	156.5
60°	277.2	270.0	263.9	254.7	246.5	237.3	226.1	213.8	201.5	188.2	175.9
57.5°	296.6	290.5	283.3	275.2	265.9	256.7	246.5	235.3	220.9	207.6	193.3
55°	314.0	306.9	299.7	292.5	284.4	274.1	263.9	252.6	240.4	226.1	210.7
52.5°	331.4	324.2	316.1	308.9	299.7	290.5	280.3	269.0	256.7	243.4	227.1
50°	348.8	340.6	332.4	323.2	314.0	304.8	294.6	284.4	271.1	257.8	243.4
47.5°	369.3	359.0	348.8	338.6	329.4	318.1	307.9	296.6	285.4	271.1	256.7
45°	394.8	379.5	367.2	354.9	343.7	332.4	320.2	308.9	296.6	284.4	269.0
42.5°	426.5	406.1	389.7	373.3	359.0	345.7	333.5	320.2	307.9	294.6	280.3
40°	469.5	441.9	415.3	394.8	376.4	360.0	345.7	332.4	318.1	304.8	290.5
37.5°	525.8	486.9	450.1	420.4	396.9	376.4	359.0	343.7	329.4	314.0	299.7
35°	610.7	543.1	496.1	453.1	420.4	394.8	373.3	354.9	338.6	323.2	308.9
32.5°	730.3	626.0	550.3	496.1	450.1	415.3	389.7	367.2	348.8	332.4	316.1
30°	887.8	743.6	626.0	543.1	486.9	441.9	406.1	379.5	359.0	340.6	324.2
27.5°	1137.4	887.8	730.3	610.7	525.8	469.5	426.5	394.8	369.3	348.8	331.4
25°	1488.3	1111.9	848.0	689.4	581.0	503.3	449.0	408.1	379.5	357.0	337.5
22.5°	1890.3	1393.1	1034.1	792.7	636.2	536.0	472.6	425.5	391.8	365.2	343.7
20°	2497.8	1737.9	1227.4	909.3	711.9	584.1	500.2	442.9	402.0	373.3	349.8
17.5°	3078.8	2167.5	1499.5	1061.7	791.7	627.0	524.7	460.3	412.2	380.5	356.0
15°	3677.2	2630.8	1760.4	1198.8	864.3	672.0	553.4	477.7	424.5	388.7	361.1
12.5°	4204.0	3053.3	2057.0	1383.9	972.7	728.3	584.1	494.0	435.7	394.8	366.2
10°	4660.2	3458.3	2369.0	1557.8	1062.8	775.3	608.6	508.4	443.9	399.9	369.3
7.5°	5026.4	3779.5	2615.5	1695.9	1134.4	812.2	628.0	519.6	451.1	405.1	372.3
5°	5293.3	4013.7	2794.5	1795.1	1185.5	838.8	642.4	527.8	456.2	408.1	374.4
2.5°	5457.0	4204.0	2939.7	1875.9	1227.4	860.2	653.6	533.9	460.3	410.2	376.4
0°	5511.2	4204.0	2939.7	1875.9	1227.4	860.2	653.6	533.9	460.3	410.2	376.4

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	7.2	6.1	6.1	5.1	5.1	4.1	4.1	3.1	3.1	2.0
85°	16.4	14.3	13.3	12.3	11.3	10.2	9.2	8.2	7.2	6.1	5.1
82.5°	27.6	25.6	22.5	20.5	18.4	16.4	13.3	12.3	10.2	8.2	7.2
80°	38.9	35.8	32.7	29.7	26.6	23.5	20.5	17.4	14.3	11.3	9.2
77.5°	50.1	46.0	43.0	38.9	34.8	30.7	26.6	22.5	18.4	14.3	11.3
75°	63.4	58.3	53.2	48.1	43.0	37.8	33.8	28.6	23.5	18.4	14.3
72.5°	77.7	70.6	64.4	58.3	51.1	46.0	39.9	34.8	28.6	22.5	17.4
70°	93.1	84.9	76.7	68.5	61.4	53.2	47.1	39.9	33.8	26.6	20.5
67.5°	108.4	99.2	90.0	79.8	70.6	62.4	53.2	46.0	37.8	30.7	23.5
65°	126.8	114.6	103.3	92.1	80.8	70.6	61.4	51.1	43.0	34.8	26.6
62.5°	144.2	130.9	117.6	104.3	92.1	79.8	68.5	58.3	48.1	38.9	29.7
60°	161.6	147.3	132.0	117.6	103.3	90.0	76.7	64.4	53.2	43.0	32.7
57.5°	179.0	162.6	147.3	130.9	114.6	99.2	84.9	70.6	58.3	46.0	35.8
55°	194.3	179.0	161.6	144.2	126.8	108.4	93.1	77.7	63.4	50.1	38.9
52.5°	210.7	193.3	175.9	156.5	139.1	118.7	101.3	83.9	68.5	54.2	41.9
50°	226.1	207.6	188.2	169.8	149.3	128.9	109.4	91.0	73.6	58.3	44.0
47.5°	240.4	220.9	201.5	181.0	160.6	139.1	117.6	97.2	78.8	62.4	47.1
45°	252.6	235.3	213.8	192.3	171.8	148.3	125.8	103.3	83.9	66.5	49.1
42.5°	263.9	246.5	226.1	204.6	181.0	157.5	134.0	110.5	89.0	69.6	52.2
40°	274.1	256.7	237.3	213.8	190.3	166.7	141.2	116.6	94.1	73.6	54.2
37.5°	284.4	265.9	246.5	224.0	199.5	174.9	149.3	123.8	99.2	76.7	57.3
35°	292.5	275.2	254.7	233.2	207.6	183.1	156.5	129.9	103.3	79.8	60.3
32.5°	299.7	283.3	263.9	241.4	215.8	189.2	162.6	135.0	107.4	83.9	62.4
30°	306.9	290.5	270.0	248.6	224.0	196.4	168.8	140.1	112.5	86.9	64.4
27.5°	314.0	296.6	277.2	254.7	231.2	202.5	174.9	145.2	116.6	90.0	66.5
25°	320.2	301.7	283.3	260.8	237.3	208.7	180.0	150.4	120.7	93.1	68.5
22.5°	325.3	306.9	288.4	265.9	242.4	213.8	184.1	154.5	123.8	95.1	70.6
20°	330.4	312.0	292.5	271.1	246.5	218.9	188.2	158.5	126.8	97.2	71.6
17.5°	335.5	316.1	296.6	275.2	250.6	223.0	192.3	161.6	129.9	99.2	73.6
15°	339.6	319.1	299.7	278.2	254.7	227.1	195.4	164.7	132.0	101.3	74.7
12.5°	342.7	322.2	302.8	281.3	256.7	230.1	198.4	166.7	134.0	103.3	75.7
10°	345.7	325.3	304.8	284.4	259.8	232.2	200.5	168.8	136.0	104.3	76.7
7.5°	347.8	327.3	306.9	286.4	261.9	234.2	202.5	170.8	137.1	105.4	77.7
5°	349.8	328.3	307.9	287.4	262.9	237.3	204.6	172.9	139.1	106.4	77.7
2.5°	350.8	329.4	308.9	288.4	263.9	237.3	204.6	172.9	139.1	106.4	77.7
0°	350.8	329.4	308.9	288.4	263.9	237.3	204.6	172.9	139.1	106.4	77.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	0.0
85°	3.1	2.0	1.0	0.0
82.5°	5.1	3.1	2.0	0.0
80°	7.2	5.1	2.0	0.0
77.5°	8.2	6.1	3.1	0.0
75°	10.2	7.2	3.1	0.0
72.5°	12.3	8.2	4.1	0.0
70°	13.3	9.2	4.1	0.0
67.5°	16.4	10.2	5.1	0.0
65°	18.4	11.3	5.1	0.0
62.5°	20.5	12.3	6.1	0.0
60°	22.5	13.3	6.1	0.0
57.5°	25.6	14.3	7.2	0.0
55°	27.6	16.4	7.2	0.0
52.5°	29.7	17.4	8.2	0.0
50°	31.7	18.4	8.2	0.0
47.5°	32.7	20.5	9.2	0.0
45°	34.8	21.5	9.2	0.0
42.5°	36.8	22.5	10.2	0.0
40°	38.9	23.5	10.2	0.0
37.5°	40.9	24.5	10.2	0.0
35°	41.9	25.6	11.3	0.0
32.5°	44.0	26.6	11.3	0.0
30°	45.0	27.6	11.3	0.0
27.5°	46.0	28.6	12.3	0.0
25°	47.1	28.6	12.3	0.0
22.5°	48.1	29.7	12.3	0.0
20°	49.1	30.7	12.3	0.0
17.5°	50.1	30.7	12.3	0.0
15°	51.1	31.7	13.3	0.0
12.5°	52.2	31.7	13.3	0.0
10°	52.2	32.7	13.3	0.0
7.5°	53.2	32.7	13.3	0.0
5°	53.2	32.7	13.3	0.0
2.5°	53.2	32.7	13.3	0.0
0°	53.2	32.7	13.3	0.0

(END OF REPORT)