

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: P623699

Luminaire Tested: **IFLD-S-SA2E-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623699
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	19303.9 lumens	Max Intensity:	23590.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	123.6 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:	9594.5 lumens	Field Lumens:	12478 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

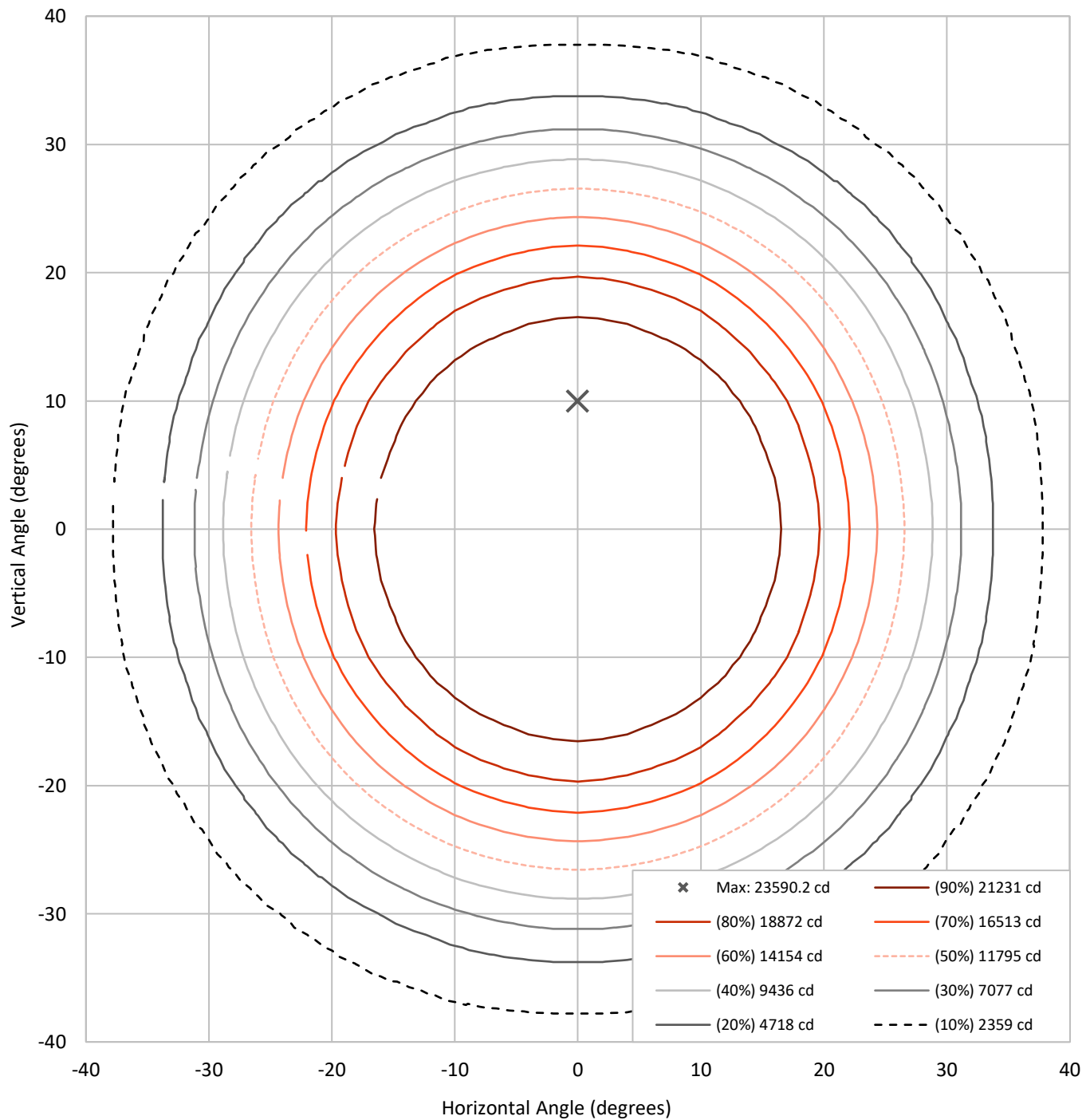
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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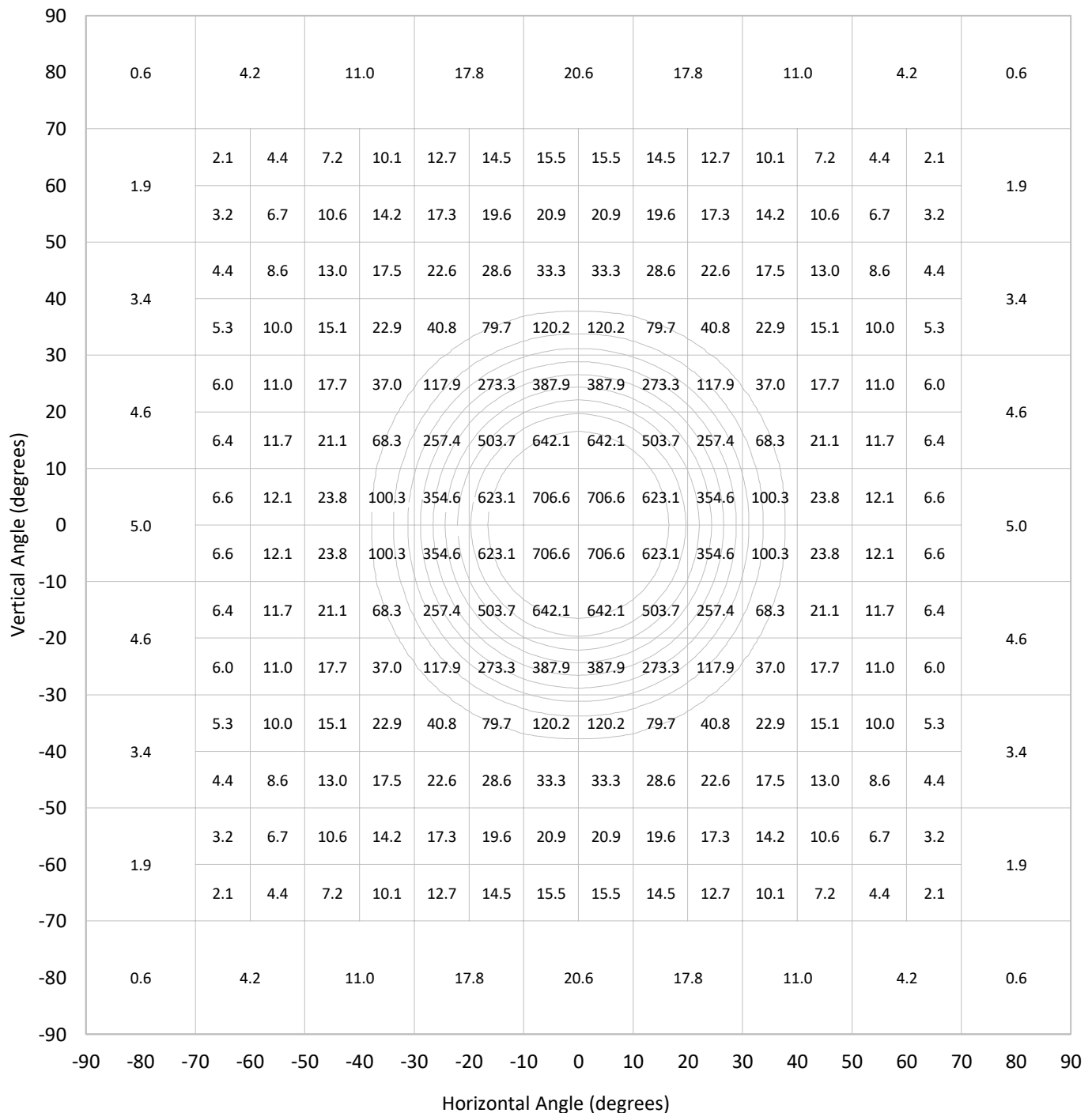
Iso-Candela Plot



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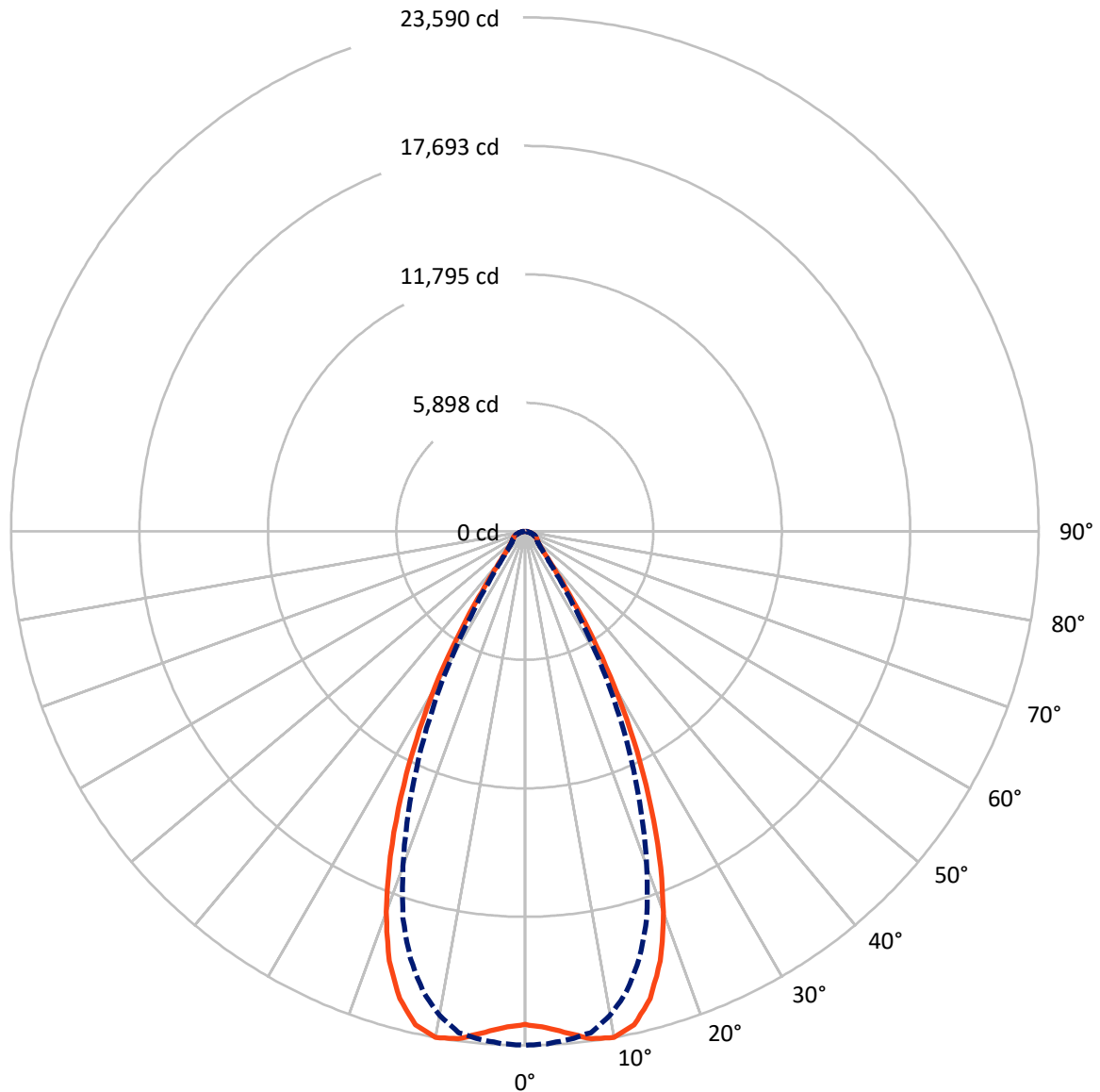
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Lumen Table



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Luminous Intensity Polar Plot

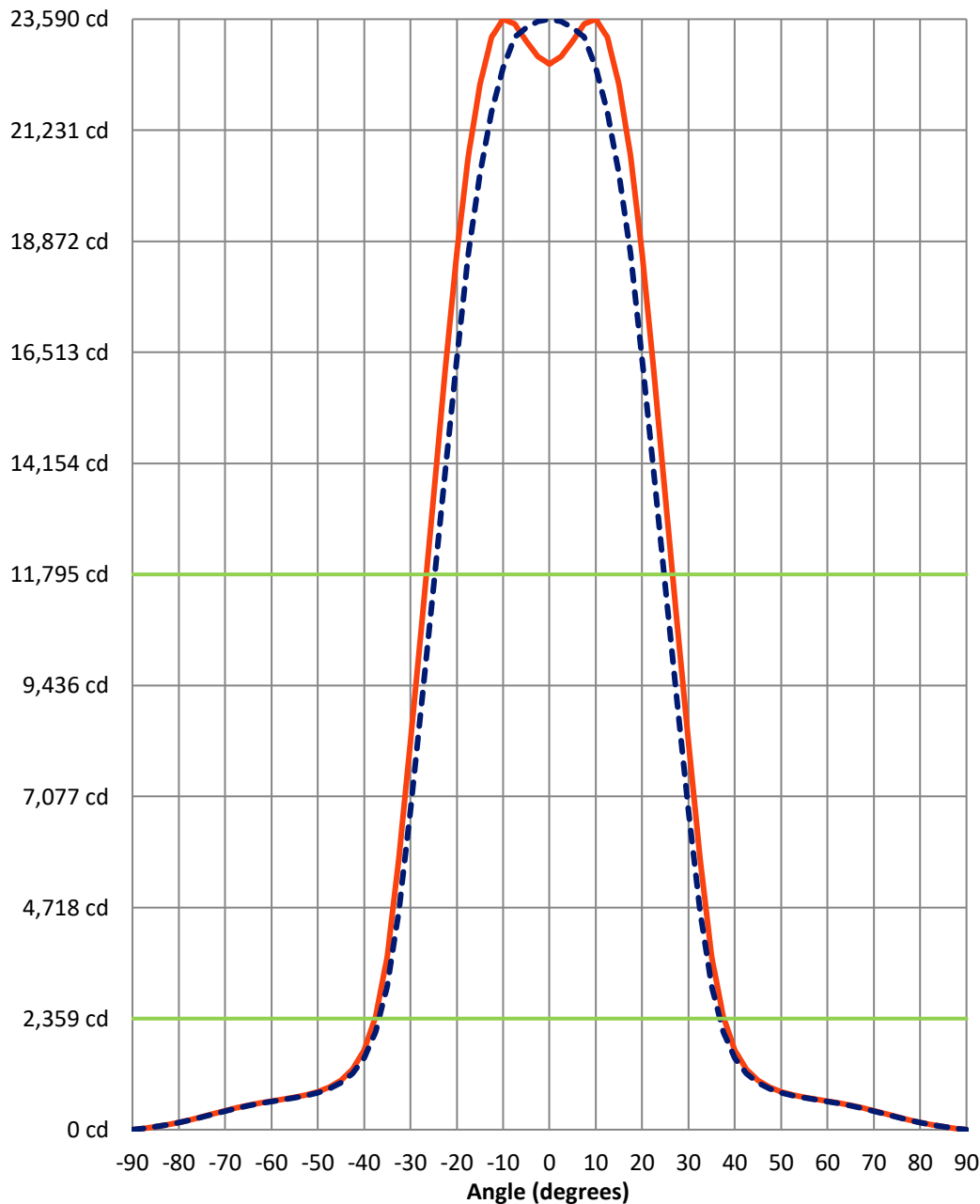


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 9594.5
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 12478
Efficiency: 64.6%

Spill:

Lumens: 6826
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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	24.1	24.1	24.1	24.1
85°	64.2	64.2	64.2	64.2	64.2	62.2	62.2	60.2	60.2	58.2	56.1
82.5°	104.3	104.3	104.3	104.3	102.3	102.3	100.3	98.3	96.3	94.2	92.2
80°	152.4	152.4	152.4	152.4	150.4	148.4	146.4	144.4	140.4	138.4	134.4
77.5°	208.6	208.6	208.6	206.5	204.5	202.5	198.5	194.5	190.5	186.5	182.5
75°	272.7	272.7	272.7	268.7	266.7	262.7	258.7	254.7	248.7	242.6	236.6
72.5°	338.9	338.9	338.9	334.9	330.9	326.9	322.9	316.8	310.8	302.8	294.8
70°	401.1	401.1	401.1	397.0	393.0	389.0	383.0	377.0	369.0	361.0	352.9
67.5°	465.2	465.2	465.2	459.2	455.2	451.2	445.2	437.2	429.1	419.1	409.1
65°	517.4	517.4	515.4	513.4	509.3	503.3	499.3	491.3	483.3	475.3	465.2
62.5°	565.5	565.5	563.5	561.5	557.5	551.5	545.4	539.4	531.4	521.4	511.3
60°	605.6	605.6	603.6	601.6	597.6	593.6	587.5	581.5	573.5	565.5	555.5
57.5°	645.7	645.7	643.7	641.7	637.7	631.7	625.7	619.6	611.6	601.6	591.6
55°	687.8	687.8	685.8	681.8	677.8	671.8	665.8	657.7	647.7	637.7	627.7
52.5°	737.9	737.9	733.9	729.9	723.9	717.9	707.9	697.8	685.8	673.8	661.7
50°	804.1	804.1	800.1	794.1	784.1	774.0	762.0	746.0	731.9	715.9	699.8
47.5°	902.4	902.4	894.4	884.3	870.3	854.3	832.2	808.1	788.1	768.0	744.0
45°	1046.8	1046.8	1034.7	1018.7	996.6	968.6	936.5	902.4	868.3	834.2	800.1
42.5°	1281.4	1281.4	1259.3	1231.2	1193.1	1145.0	1084.9	1028.7	980.6	926.4	880.3
40°	1686.4	1686.4	1644.3	1592.2	1520.0	1427.8	1317.5	1229.2	1145.0	1050.8	986.6
37.5°	2406.3	2406.3	2324.1	2223.9	2083.5	1907.0	1694.5	1552.1	1395.7	1247.3	1139.0
35°	3677.7	3677.7	3519.3	3324.8	3054.1	2713.2	2350.2	2081.5	1782.7	1554.1	1351.6
32.5°	5763.2	5763.2	5478.5	5127.5	4644.2	4032.6	3451.1	2939.8	2406.3	2027.3	1662.4
30°	8241.7	8241.7	7868.8	7409.5	6779.9	5985.8	5157.6	4249.2	3407.0	2731.2	2179.7
27.5°	10804.5	10698.2	10377.4	9854.0	9136.1	8241.7	7209.0	6035.9	4896.9	3705.8	2917.7
25°	13455.5	13331.2	12964.2	12362.6	11540.4	10527.8	9364.7	8053.2	6647.5	5227.8	3864.2
22.5°	16134.6	15994.2	15577.1	14897.3	13974.9	12839.9	11522.4	10064.5	8494.4	6854.1	5227.8
20°	18611.1	18462.7	18025.5	17317.7	16363.2	15117.9	13654.0	12037.8	10301.2	8494.4	6647.5
17.5°	20684.6	20542.2	20121.1	19445.3	18611.1	17233.5	15711.4	13934.8	12037.8	10064.5	8053.2
15°	22198.6	22076.2	21717.3	21149.8	20299.5	19080.3	17530.2	15711.4	13654.0	11522.4	9364.7
12.5°	23203.2	23104.9	22822.2	22381.0	21619.0	20596.3	19080.3	17233.5	15117.9	12839.9	10527.8
10°	23590.2	23542.1	23409.7	23207.2	22557.5	21619.0	20299.5	18611.1	16363.2	13974.9	11540.4
7.5°	23488.0	23504.0	23550.1	23498.0	23207.2	22381.0	21149.8	19445.3	17317.7	14897.3	12362.6
5°	23123.0	23209.2	23423.8	23550.1	23409.7	22822.2	21717.3	20121.1	18025.5	15577.1	12964.2
2.5°	22798.1	22932.5	23209.2	23504.0	23542.1	23104.9	22076.2	20542.2	18462.7	15994.2	13331.2
0°	22637.7	22798.1	23123.0	23488.0	23590.2	23203.2	22198.6	20684.6	18611.1	16134.6	13455.5

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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°	24.1	22.1	22.1	22.1	20.1	20.1	20.1	18.0	18.0	16.0	16.0
85°	56.1	54.1	52.1	50.1	48.1	46.1	44.1	42.1	40.1	36.1	34.1
82.5°	90.2	88.2	86.2	82.2	80.2	76.2	72.2	68.2	64.2	62.2	58.2
80°	130.3	126.3	122.3	118.3	112.3	106.3	102.3	96.3	92.2	86.2	82.2
77.5°	176.5	170.4	164.4	156.4	150.4	144.4	136.4	130.3	122.3	114.3	106.3
75°	228.6	220.6	210.6	202.5	194.5	184.5	174.5	164.4	154.4	144.4	134.4
72.5°	284.8	274.7	264.7	254.7	242.6	228.6	216.6	202.5	190.5	178.5	164.4
70°	342.9	330.9	318.8	306.8	292.8	276.7	262.7	246.7	230.6	214.6	198.5
67.5°	397.0	385.0	371.0	358.9	342.9	326.9	308.8	290.8	272.7	252.7	232.6
65°	453.2	439.2	423.1	407.1	391.0	373.0	354.9	336.9	314.8	292.8	272.7
62.5°	499.3	487.3	473.2	457.2	439.2	419.1	401.1	377.0	354.9	332.9	306.8
60°	543.4	529.4	517.4	499.3	483.3	465.2	443.2	419.1	395.0	369.0	344.9
57.5°	581.5	569.5	555.5	539.4	521.4	503.3	483.3	461.2	433.1	407.1	379.0
55°	615.6	601.6	587.5	573.5	557.5	537.4	517.4	495.3	471.2	443.2	413.1
52.5°	649.7	635.7	619.6	605.6	587.5	569.5	549.4	527.4	503.3	477.3	445.2
50°	683.8	667.8	651.7	633.7	615.6	597.6	577.5	557.5	531.4	505.3	477.3
47.5°	723.9	703.9	683.8	663.8	645.7	623.6	603.6	581.5	559.5	531.4	503.3
45°	774.0	744.0	719.9	695.8	673.8	651.7	627.7	605.6	581.5	557.5	527.4
42.5°	836.2	796.1	764.0	731.9	703.9	677.8	653.7	627.7	603.6	577.5	549.4
40°	920.4	866.3	814.1	774.0	737.9	705.9	677.8	651.7	623.6	597.6	569.5
37.5°	1030.7	954.5	882.3	824.2	778.1	737.9	703.9	673.8	645.7	615.6	587.5
35°	1197.2	1064.8	972.6	888.3	824.2	774.0	731.9	695.8	663.8	633.7	605.6
32.5°	1431.8	1227.2	1078.8	972.6	882.3	814.1	764.0	719.9	683.8	651.7	619.6
30°	1740.6	1457.8	1227.2	1064.8	954.5	866.3	796.1	744.0	703.9	667.8	635.7
27.5°	2229.9	1740.6	1431.8	1197.2	1030.7	920.4	836.2	774.0	723.9	683.8	649.7
25°	2917.7	2179.7	1662.4	1351.6	1139.0	986.6	880.3	800.1	744.0	699.8	661.7
22.5°	3705.8	2731.2	2027.3	1554.1	1247.3	1050.8	926.4	834.2	768.0	715.9	673.8
20°	4896.9	3407.0	2406.3	1782.7	1395.7	1145.0	980.6	868.3	788.1	731.9	685.8
17.5°	6035.9	4249.2	2939.8	2081.5	1552.1	1229.2	1028.7	902.4	808.1	746.0	697.8
15°	7209.0	5157.6	3451.1	2350.2	1694.5	1317.5	1084.9	936.5	832.2	762.0	707.9
12.5°	8241.7	5985.8	4032.6	2713.2	1907.0	1427.8	1145.0	968.6	854.3	774.0	717.9
10°	9136.1	6779.9	4644.2	3054.1	2083.5	1520.0	1193.1	996.6	870.3	784.1	723.9
7.5°	9854.0	7409.5	5127.5	3324.8	2223.9	1592.2	1231.2	1018.7	884.3	794.1	729.9
5°	10377.4	7868.8	5478.5	3519.3	2324.1	1644.3	1259.3	1034.7	894.4	800.1	733.9
2.5°	10698.2	8241.7	5763.2	3677.7	2406.3	1686.4	1281.4	1046.8	902.4	804.1	737.9
0°	10804.5	8241.7	5763.2	3677.7	2406.3	1686.4	1281.4	1046.8	902.4	804.1	737.9

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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°	14.0	14.0	12.0	12.0	10.0	10.0	8.0	8.0	6.0	6.0	4.0
85°	32.1	28.1	26.1	24.1	22.1	20.1	18.0	16.0	14.0	12.0	10.0
82.5°	54.1	50.1	44.1	40.1	36.1	32.1	26.1	24.1	20.1	16.0	14.0
80°	76.2	70.2	64.2	58.2	52.1	46.1	40.1	34.1	28.1	22.1	18.0
77.5°	98.3	90.2	84.2	76.2	68.2	60.2	52.1	44.1	36.1	28.1	22.1
75°	124.3	114.3	104.3	94.2	84.2	74.2	66.2	56.1	46.1	36.1	28.1
72.5°	152.4	138.4	126.3	114.3	100.3	90.2	78.2	68.2	56.1	44.1	34.1
70°	182.5	166.4	150.4	134.4	120.3	104.3	92.2	78.2	66.2	52.1	40.1
67.5°	212.6	194.5	176.5	156.4	138.4	122.3	104.3	90.2	74.2	60.2	46.1
65°	248.7	224.6	202.5	180.5	158.4	138.4	120.3	100.3	84.2	68.2	52.1
62.5°	282.7	256.7	230.6	204.5	180.5	156.4	134.4	114.3	94.2	76.2	58.2
60°	316.8	288.8	258.7	230.6	202.5	176.5	150.4	126.3	104.3	84.2	64.2
57.5°	350.9	318.8	288.8	256.7	224.6	194.5	166.4	138.4	114.3	90.2	70.2
55°	381.0	350.9	316.8	282.7	248.7	212.6	182.5	152.4	124.3	98.3	76.2
52.5°	413.1	379.0	344.9	306.8	272.7	232.6	198.5	164.4	134.4	106.3	82.2
50°	443.2	407.1	369.0	332.9	292.8	252.7	214.6	178.5	144.4	114.3	86.2
47.5°	471.2	433.1	395.0	354.9	314.8	272.7	230.6	190.5	154.4	122.3	92.2
45°	495.3	461.2	419.1	377.0	336.9	290.8	246.7	202.5	164.4	130.3	96.3
42.5°	517.4	483.3	443.2	401.1	354.9	308.8	262.7	216.6	174.5	136.4	102.3
40°	537.4	503.3	465.2	419.1	373.0	326.9	276.7	228.6	184.5	144.4	106.3
37.5°	557.5	521.4	483.3	439.2	391.0	342.9	292.8	242.6	194.5	150.4	112.3
35°	573.5	539.4	499.3	457.2	407.1	358.9	306.8	254.7	202.5	156.4	118.3
32.5°	587.5	555.5	517.4	473.2	423.1	371.0	318.8	264.7	210.6	164.4	122.3
30°	601.6	569.5	529.4	487.3	439.2	385.0	330.9	274.7	220.6	170.4	126.3
27.5°	615.6	581.5	543.4	499.3	453.2	397.0	342.9	284.8	228.6	176.5	130.3
25°	627.7	591.6	555.5	511.3	465.2	409.1	352.9	294.8	236.6	182.5	134.4
22.5°	637.7	601.6	565.5	521.4	475.3	419.1	361.0	302.8	242.6	186.5	138.4
20°	647.7	611.6	573.5	531.4	483.3	429.1	369.0	310.8	248.7	190.5	140.4
17.5°	657.7	619.6	581.5	539.4	491.3	437.2	377.0	316.8	254.7	194.5	144.4
15°	665.8	625.7	587.5	545.4	499.3	445.2	383.0	322.9	258.7	198.5	146.4
12.5°	671.8	631.7	593.6	551.5	503.3	451.2	389.0	326.9	262.7	202.5	148.4
10°	677.8	637.7	597.6	557.5	509.3	455.2	393.0	330.9	266.7	204.5	150.4
7.5°	681.8	641.7	601.6	561.5	513.4	459.2	397.0	334.9	268.7	206.5	152.4
5°	685.8	643.7	603.6	563.5	515.4	465.2	401.1	338.9	272.7	208.6	152.4
2.5°	687.8	645.7	605.6	565.5	517.4	465.2	401.1	338.9	272.7	208.6	152.4
0°	687.8	645.7	605.6	565.5	517.4	465.2	401.1	338.9	272.7	208.6	152.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	0.0
85°	6.0	4.0	2.0	0.0
82.5°	10.0	6.0	4.0	0.0
80°	14.0	10.0	4.0	0.0
77.5°	16.0	12.0	6.0	0.0
75°	20.1	14.0	6.0	0.0
72.5°	24.1	16.0	8.0	0.0
70°	26.1	18.0	8.0	0.0
67.5°	32.1	20.1	10.0	0.0
65°	36.1	22.1	10.0	0.0
62.5°	40.1	24.1	12.0	0.0
60°	44.1	26.1	12.0	0.0
57.5°	50.1	28.1	14.0	0.0
55°	54.1	32.1	14.0	0.0
52.5°	58.2	34.1	16.0	0.0
50°	62.2	36.1	16.0	0.0
47.5°	64.2	40.1	18.0	0.0
45°	68.2	42.1	18.0	0.0
42.5°	72.2	44.1	20.1	0.0
40°	76.2	46.1	20.1	0.0
37.5°	80.2	48.1	20.1	0.0
35°	82.2	50.1	22.1	0.0
32.5°	86.2	52.1	22.1	0.0
30°	88.2	54.1	22.1	0.0
27.5°	90.2	56.1	24.1	0.0
25°	92.2	56.1	24.1	0.0
22.5°	94.2	58.2	24.1	0.0
20°	96.3	60.2	24.1	0.0
17.5°	98.3	60.2	24.1	0.0
15°	100.3	62.2	26.1	0.0
12.5°	102.3	62.2	26.1	0.0
10°	102.3	64.2	26.1	0.0
7.5°	104.3	64.2	26.1	0.0
5°	104.3	64.2	26.1	0.0
2.5°	104.3	64.2	26.1	0.0
0°	104.3	64.2	26.1	0.0

(END OF REPORT)