

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: P623614

Luminaire Tested: **IFLD-S-SA3B-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623614
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	16155.9 lumens	Max Intensity:	19743.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	132.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

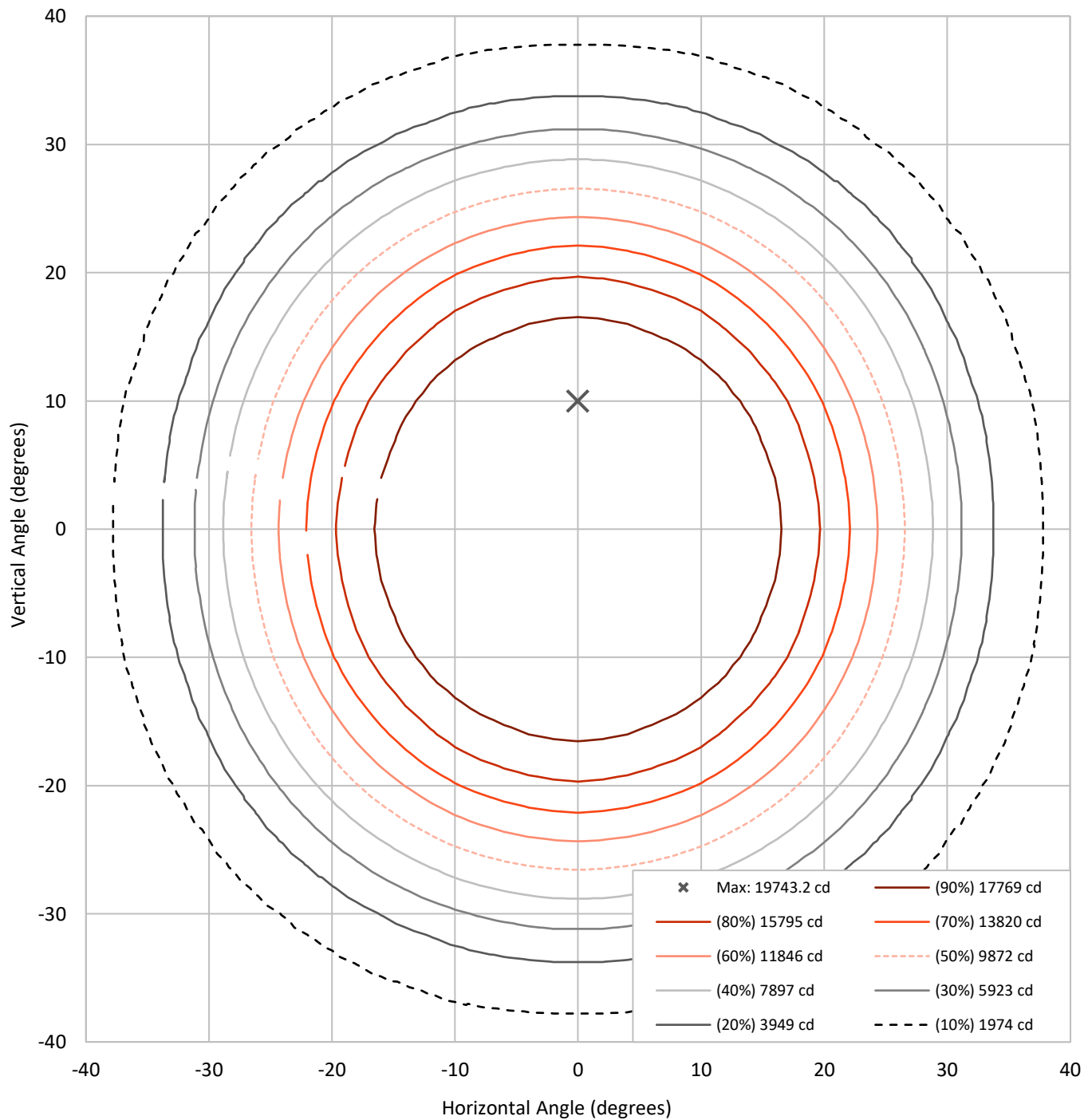
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	8029.9 lumens	Field Lumens:	10443.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 122.4
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



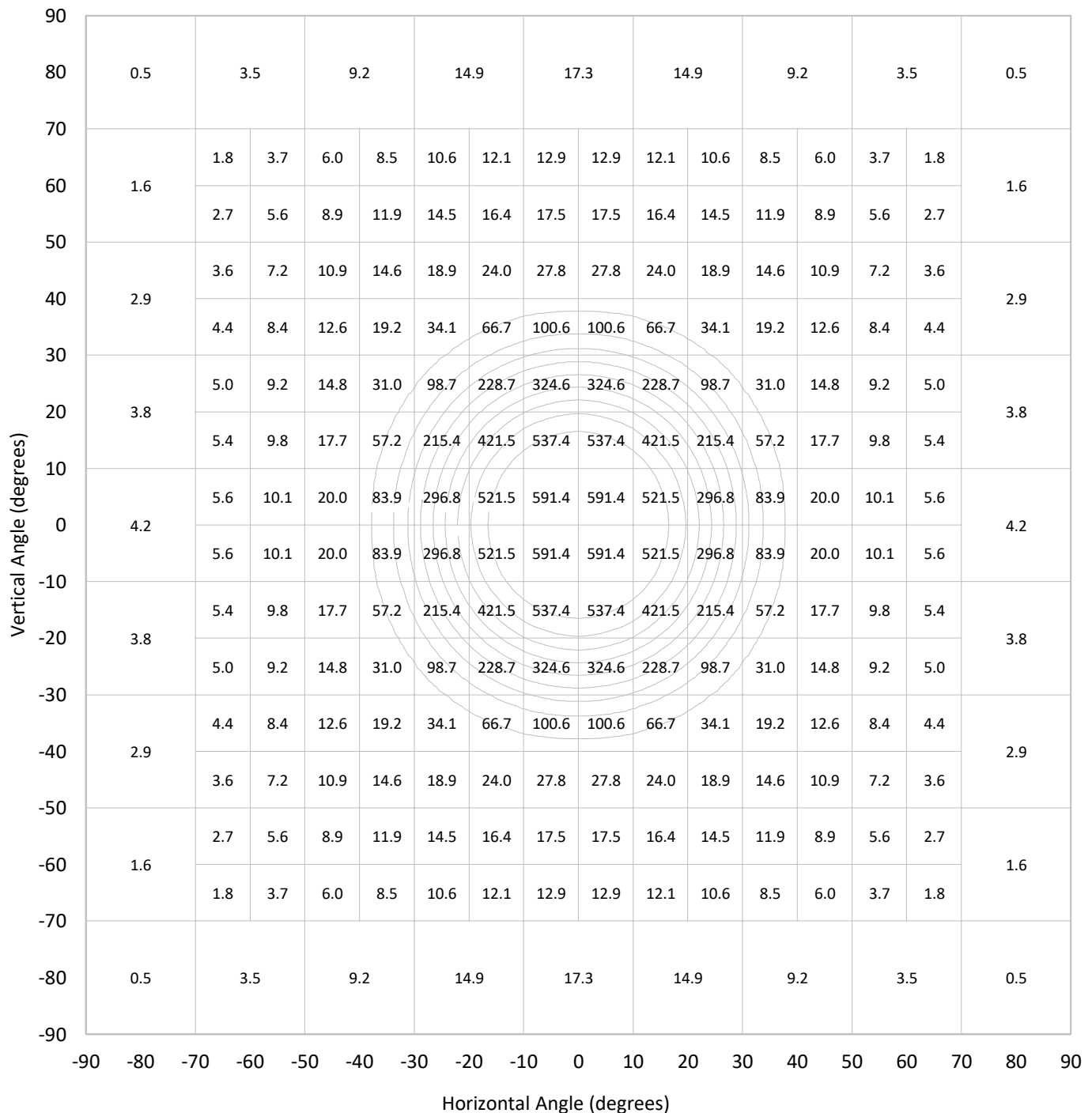
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Iso-Candela Plot



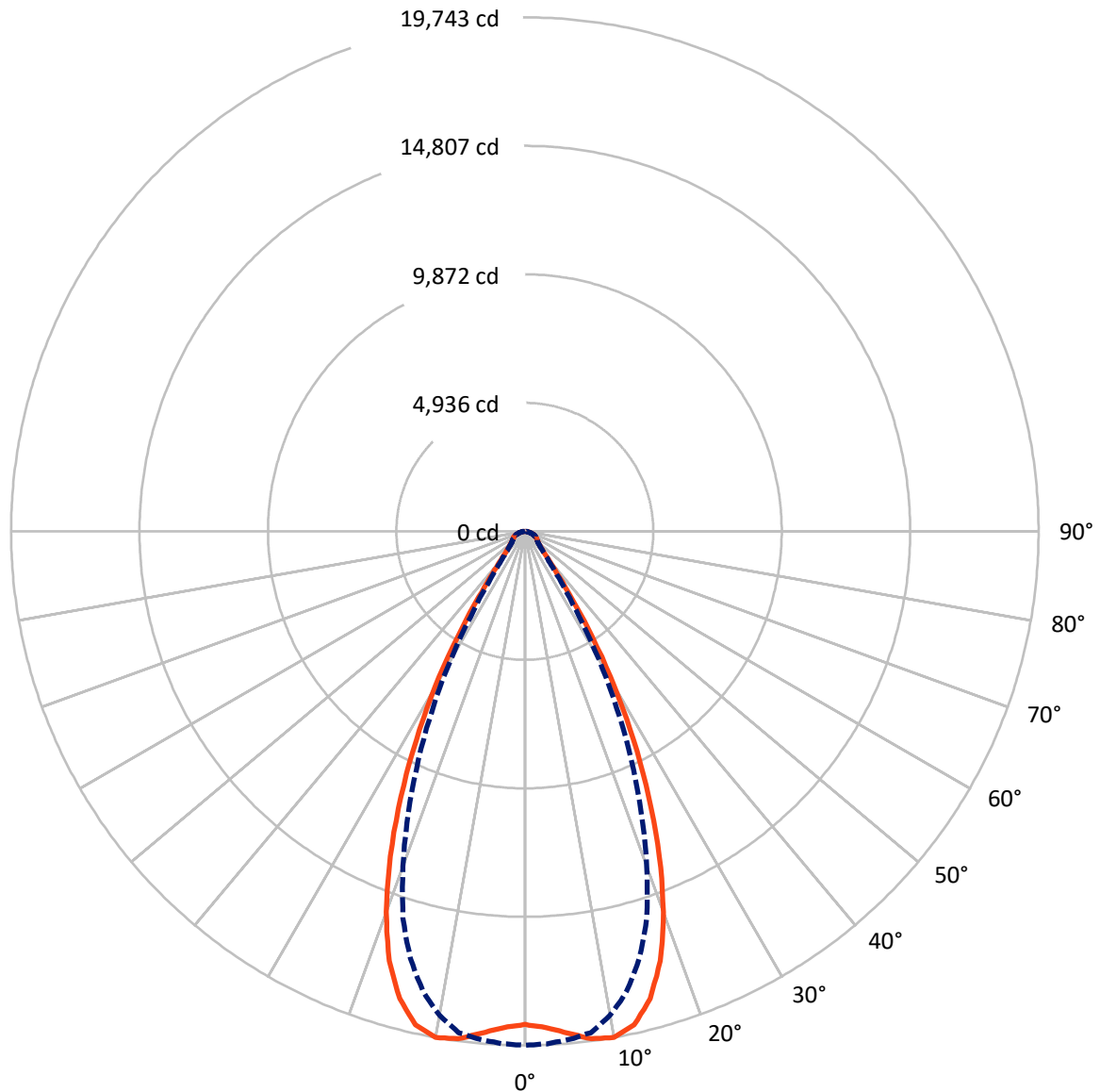
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Lumen Table



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Luminous Intensity Polar Plot

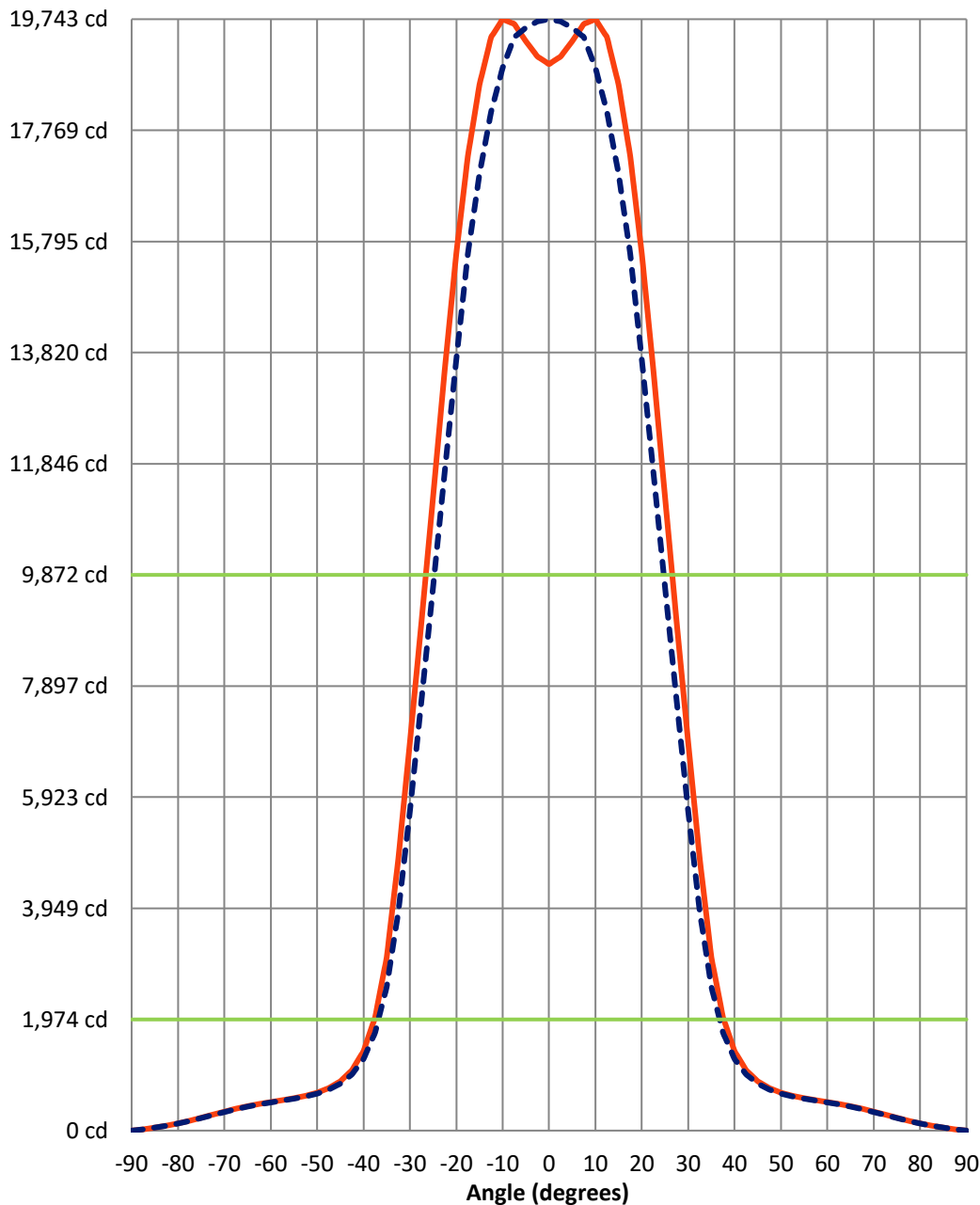


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 8029.9
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 10443.1
Efficiency: 64.6%

Spill:

Lumens: 5712.8
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°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	20.1	20.1	20.1	20.1
85°	53.7	53.7	53.7	53.7	53.7	52.0	52.0	50.3	50.3	48.7	47.0
82.5°	87.3	87.3	87.3	87.3	85.6	85.6	83.9	82.2	80.6	78.9	77.2
80°	127.5	127.5	127.5	127.5	125.9	124.2	122.5	120.8	117.5	115.8	112.4
77.5°	174.5	174.5	174.5	172.9	171.2	169.5	166.1	162.8	159.4	156.1	152.7
75°	228.2	228.2	228.2	224.9	223.2	219.9	216.5	213.1	208.1	203.1	198.0
72.5°	283.6	283.6	283.6	280.3	276.9	273.6	270.2	265.2	260.1	253.4	246.7
70°	335.7	335.7	335.7	332.3	328.9	325.6	320.5	315.5	308.8	302.1	295.4
67.5°	389.4	389.4	389.4	384.3	381.0	377.6	372.6	365.9	359.2	350.8	342.4
65°	433.0	433.0	431.3	429.6	426.3	421.2	417.9	411.2	404.5	397.8	389.4
62.5°	473.3	473.3	471.6	469.9	466.6	461.5	456.5	451.5	444.7	436.4	428.0
60°	506.8	506.8	505.2	503.5	500.1	496.8	491.7	486.7	480.0	473.3	464.9
57.5°	540.4	540.4	538.7	537.0	533.7	528.7	523.6	518.6	511.9	503.5	495.1
55°	575.6	575.6	574.0	570.6	567.3	562.2	557.2	550.5	542.1	533.7	525.3
52.5°	617.6	617.6	614.2	610.9	605.9	600.8	592.4	584.0	574.0	563.9	553.8
50°	673.0	673.0	669.6	664.6	656.2	647.8	637.7	624.3	612.6	599.1	585.7
47.5°	755.2	755.2	748.5	740.1	728.4	714.9	696.5	676.3	659.6	642.8	622.6
45°	876.1	876.1	866.0	852.6	834.1	810.6	783.8	755.2	726.7	698.2	669.6
42.5°	1072.4	1072.4	1054.0	1030.5	998.6	958.3	907.9	861.0	820.7	775.4	736.8
40°	1411.4	1411.4	1376.2	1332.5	1272.1	1194.9	1102.6	1028.8	958.3	879.4	825.7
37.5°	2013.9	2013.9	1945.1	1861.2	1743.7	1596.0	1418.1	1299.0	1168.1	1043.9	953.3
35°	3077.9	3077.9	2945.4	2782.6	2556.0	2270.7	1966.9	1742.0	1492.0	1300.7	1131.2
32.5°	4823.4	4823.4	4585.0	4291.3	3886.9	3375.0	2888.3	2460.3	2013.9	1696.7	1391.3
30°	6897.7	6897.7	6585.5	6201.2	5674.2	5009.6	4316.5	3556.3	2851.4	2285.8	1824.3
27.5°	9042.5	8953.6	8685.1	8247.0	7646.2	6897.7	6033.4	5051.6	4098.3	3101.4	2441.9
25°	11261.2	11157.1	10850.0	10346.5	9658.5	8810.9	7837.5	6739.9	5563.5	4375.3	3234.0
22.5°	13503.4	13385.9	13036.8	12467.9	11695.9	10746.0	9643.3	8423.2	7109.2	5736.3	4375.3
20°	15576.0	15451.8	15086.0	14493.5	13694.7	12652.5	11427.3	10074.7	8621.3	7109.2	5563.5
17.5°	17311.4	17192.2	16839.8	16274.2	15576.0	14423.1	13149.3	11662.3	10074.7	8423.2	6739.9
15°	18578.5	18476.1	18175.7	17700.7	16989.1	15968.7	14671.4	13149.3	11427.3	9643.3	7837.5
12.5°	19419.3	19337.0	19100.4	18731.2	18093.4	17237.5	15968.7	14423.1	12652.5	10746.0	8810.9
10°	19743.2	19702.9	19592.1	19422.6	18878.9	18093.4	16989.1	15576.0	13694.7	11695.9	9658.5
7.5°	19657.6	19671.0	19709.6	19666.0	19422.6	18731.2	17700.7	16274.2	14493.5	12467.9	10346.5
5°	19352.1	19424.3	19603.9	19709.6	19592.1	19100.4	18175.7	16839.8	15086.0	13036.8	10850.0
2.5°	19080.3	19192.7	19424.3	19671.0	19702.9	19337.0	18476.1	17192.2	15451.8	13385.9	11157.1
0°	18946.0	19080.3	19352.1	19657.6	19743.2	19419.3	18578.5	17311.4	15576.0	13503.4	11261.2

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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°	20.1	18.5	18.5	18.5	16.8	16.8	16.8	15.1	15.1	13.4	13.4
85°	47.0	45.3	43.6	42.0	40.3	38.6	36.9	35.2	33.6	30.2	28.5
82.5°	75.5	73.8	72.2	68.8	67.1	63.8	60.4	57.1	53.7	52.0	48.7
80°	109.1	105.7	102.4	99.0	94.0	88.9	85.6	80.6	77.2	72.2	68.8
77.5°	147.7	142.7	137.6	130.9	125.9	120.8	114.1	109.1	102.4	95.7	88.9
75°	191.3	184.6	176.2	169.5	162.8	154.4	146.0	137.6	129.2	120.8	112.4
72.5°	238.3	229.9	221.5	213.1	203.1	191.3	181.3	169.5	159.4	149.4	137.6
70°	287.0	276.9	266.8	256.8	245.0	231.6	219.9	206.4	193.0	179.6	166.1
67.5°	332.3	322.2	310.5	300.4	287.0	273.6	258.5	243.3	228.2	211.5	194.7
65°	379.3	367.5	354.1	340.7	327.3	312.2	297.1	281.9	263.5	245.0	228.2
62.5°	417.9	407.8	396.1	382.6	367.5	350.8	335.7	315.5	297.1	278.6	256.8
60°	454.8	443.1	433.0	417.9	404.5	389.4	370.9	350.8	330.6	308.8	288.7
57.5°	486.7	476.6	464.9	451.5	436.4	421.2	404.5	386.0	362.5	340.7	317.2
55°	515.2	503.5	491.7	480.0	466.6	449.8	433.0	414.5	394.4	370.9	345.7
52.5°	543.8	532.0	518.6	506.8	491.7	476.6	459.8	441.4	421.2	399.4	372.6
50°	572.3	558.9	545.4	530.3	515.2	500.1	483.3	466.6	444.7	422.9	399.4
47.5°	605.9	589.1	572.3	555.5	540.4	521.9	505.2	486.7	468.2	444.7	421.2
45°	647.8	622.6	602.5	582.4	563.9	545.4	525.3	506.8	486.7	466.6	441.4
42.5°	699.8	666.3	639.4	612.6	589.1	567.3	547.1	525.3	505.2	483.3	459.8
40°	770.3	725.0	681.4	647.8	617.6	590.8	567.3	545.4	521.9	500.1	476.6
37.5°	862.6	798.9	738.4	689.8	651.2	617.6	589.1	563.9	540.4	515.2	491.7
35°	1001.9	891.2	814.0	743.5	689.8	647.8	612.6	582.4	555.5	530.3	506.8
32.5°	1198.3	1027.1	902.9	814.0	738.4	681.4	639.4	602.5	572.3	545.4	518.6
30°	1456.7	1220.1	1027.1	891.2	798.9	725.0	666.3	622.6	589.1	558.9	532.0
27.5°	1866.2	1456.7	1198.3	1001.9	862.6	770.3	699.8	647.8	605.9	572.3	543.8
25°	2441.9	1824.3	1391.3	1131.2	953.3	825.7	736.8	669.6	622.6	585.7	553.8
22.5°	3101.4	2285.8	1696.7	1300.7	1043.9	879.4	775.4	698.2	642.8	599.1	563.9
20°	4098.3	2851.4	2013.9	1492.0	1168.1	958.3	820.7	726.7	659.6	612.6	574.0
17.5°	5051.6	3556.3	2460.3	1742.0	1299.0	1028.8	861.0	755.2	676.3	624.3	584.0
15°	6033.4	4316.5	2888.3	1966.9	1418.1	1102.6	907.9	783.8	696.5	637.7	592.4
12.5°	6897.7	5009.6	3375.0	2270.7	1596.0	1194.9	958.3	810.6	714.9	647.8	600.8
10°	7646.2	5674.2	3886.9	2556.0	1743.7	1272.1	998.6	834.1	728.4	656.2	605.9
7.5°	8247.0	6201.2	4291.3	2782.6	1861.2	1332.5	1030.5	852.6	740.1	664.6	610.9
5°	8685.1	6585.5	4585.0	2945.4	1945.1	1376.2	1054.0	866.0	748.5	669.6	614.2
2.5°	8953.6	6897.7	4823.4	3077.9	2013.9	1411.4	1072.4	876.1	755.2	673.0	617.6
0°	9042.5	6897.7	4823.4	3077.9	2013.9	1411.4	1072.4	876.1	755.2	673.0	617.6

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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°	11.7	11.7	10.1	10.1	8.4	8.4	6.7	6.7	5.0	5.0	3.4
85°	26.9	23.5	21.8	20.1	18.5	16.8	15.1	13.4	11.7	10.1	8.4
82.5°	45.3	42.0	36.9	33.6	30.2	26.9	21.8	20.1	16.8	13.4	11.7
80°	63.8	58.7	53.7	48.7	43.6	38.6	33.6	28.5	23.5	18.5	15.1
77.5°	82.2	75.5	70.5	63.8	57.1	50.3	43.6	36.9	30.2	23.5	18.5
75°	104.1	95.7	87.3	78.9	70.5	62.1	55.4	47.0	38.6	30.2	23.5
72.5°	127.5	115.8	105.7	95.7	83.9	75.5	65.5	57.1	47.0	36.9	28.5
70°	152.7	139.3	125.9	112.4	100.7	87.3	77.2	65.5	55.4	43.6	33.6
67.5°	177.9	162.8	147.7	130.9	115.8	102.4	87.3	75.5	62.1	50.3	38.6
65°	208.1	188.0	169.5	151.0	132.6	115.8	100.7	83.9	70.5	57.1	43.6
62.5°	236.6	214.8	193.0	171.2	151.0	130.9	112.4	95.7	78.9	63.8	48.7
60°	265.2	241.7	216.5	193.0	169.5	147.7	125.9	105.7	87.3	70.5	53.7
57.5°	293.7	266.8	241.7	214.8	188.0	162.8	139.3	115.8	95.7	75.5	58.7
55°	318.9	293.7	265.2	236.6	208.1	177.9	152.7	127.5	104.1	82.2	63.8
52.5°	345.7	317.2	288.7	256.8	228.2	194.7	166.1	137.6	112.4	88.9	68.8
50°	370.9	340.7	308.8	278.6	245.0	211.5	179.6	149.4	120.8	95.7	72.2
47.5°	394.4	362.5	330.6	297.1	263.5	228.2	193.0	159.4	129.2	102.4	77.2
45°	414.5	386.0	350.8	315.5	281.9	243.3	206.4	169.5	137.6	109.1	80.6
42.5°	433.0	404.5	370.9	335.7	297.1	258.5	219.9	181.3	146.0	114.1	85.6
40°	449.8	421.2	389.4	350.8	312.2	273.6	231.6	191.3	154.4	120.8	88.9
37.5°	466.6	436.4	404.5	367.5	327.3	287.0	245.0	203.1	162.8	125.9	94.0
35°	480.0	451.5	417.9	382.6	340.7	300.4	256.8	213.1	169.5	130.9	99.0
32.5°	491.7	464.9	433.0	396.1	354.1	310.5	266.8	221.5	176.2	137.6	102.4
30°	503.5	476.6	443.1	407.8	367.5	322.2	276.9	229.9	184.6	142.7	105.7
27.5°	515.2	486.7	454.8	417.9	379.3	332.3	287.0	238.3	191.3	147.7	109.1
25°	525.3	495.1	464.9	428.0	389.4	342.4	295.4	246.7	198.0	152.7	112.4
22.5°	533.7	503.5	473.3	436.4	397.8	350.8	302.1	253.4	203.1	156.1	115.8
20°	542.1	511.9	480.0	444.7	404.5	359.2	308.8	260.1	208.1	159.4	117.5
17.5°	550.5	518.6	486.7	451.5	411.2	365.9	315.5	265.2	213.1	162.8	120.8
15°	557.2	523.6	491.7	456.5	417.9	372.6	320.5	270.2	216.5	166.1	122.5
12.5°	562.2	528.7	496.8	461.5	421.2	377.6	325.6	273.6	219.9	169.5	124.2
10°	567.3	533.7	500.1	466.6	426.3	381.0	328.9	276.9	223.2	171.2	125.9
7.5°	570.6	537.0	503.5	469.9	429.6	384.3	332.3	280.3	224.9	172.9	127.5
5°	574.0	538.7	505.2	471.6	431.3	389.4	335.7	283.6	228.2	174.5	127.5
2.5°	575.6	540.4	506.8	473.3	433.0	389.4	335.7	283.6	228.2	174.5	127.5
0°	575.6	540.4	506.8	473.3	433.0	389.4	335.7	283.6	228.2	174.5	127.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.7	0.0
85°	5.0	3.4	1.7	0.0
82.5°	8.4	5.0	3.4	0.0
80°	11.7	8.4	3.4	0.0
77.5°	13.4	10.1	5.0	0.0
75°	16.8	11.7	5.0	0.0
72.5°	20.1	13.4	6.7	0.0
70°	21.8	15.1	6.7	0.0
67.5°	26.9	16.8	8.4	0.0
65°	30.2	18.5	8.4	0.0
62.5°	33.6	20.1	10.1	0.0
60°	36.9	21.8	10.1	0.0
57.5°	42.0	23.5	11.7	0.0
55°	45.3	26.9	11.7	0.0
52.5°	48.7	28.5	13.4	0.0
50°	52.0	30.2	13.4	0.0
47.5°	53.7	33.6	15.1	0.0
45°	57.1	35.2	15.1	0.0
42.5°	60.4	36.9	16.8	0.0
40°	63.8	38.6	16.8	0.0
37.5°	67.1	40.3	16.8	0.0
35°	68.8	42.0	18.5	0.0
32.5°	72.2	43.6	18.5	0.0
30°	73.8	45.3	18.5	0.0
27.5°	75.5	47.0	20.1	0.0
25°	77.2	47.0	20.1	0.0
22.5°	78.9	48.7	20.1	0.0
20°	80.6	50.3	20.1	0.0
17.5°	82.2	50.3	20.1	0.0
15°	83.9	52.0	21.8	0.0
12.5°	85.6	52.0	21.8	0.0
10°	85.6	53.7	21.8	0.0
7.5°	87.3	53.7	21.8	0.0
5°	87.3	53.7	21.8	0.0
2.5°	87.3	53.7	21.8	0.0
0°	87.3	53.7	21.8	0.0

(END OF REPORT)