

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: P623615

Luminaire Tested: **IFLD-S-SA3C-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623615
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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

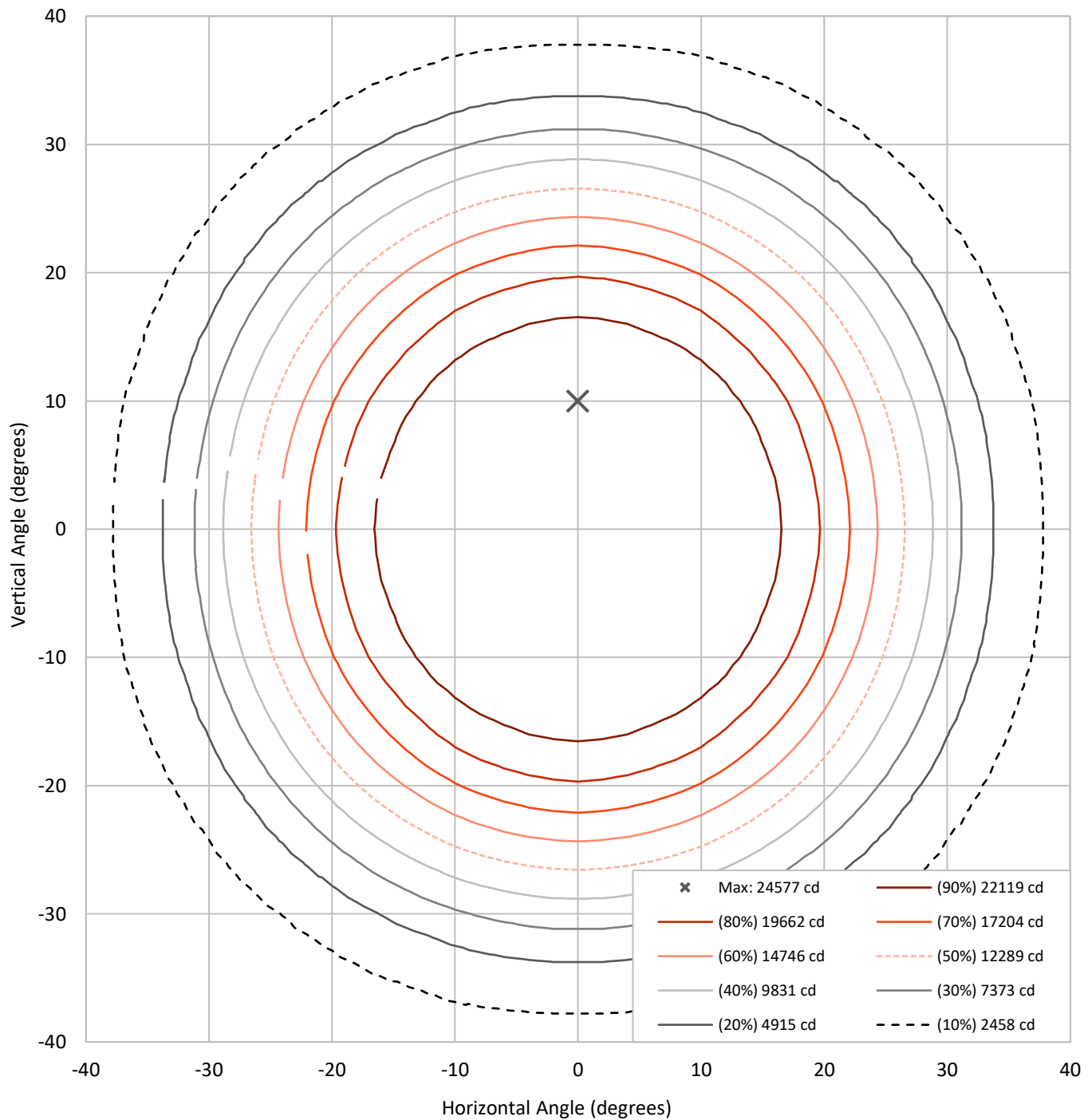
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	20111.5 lumens	Max Intensity:	24577 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	125.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	9995.9 lumens	Field Lumens:	13000 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 160.8
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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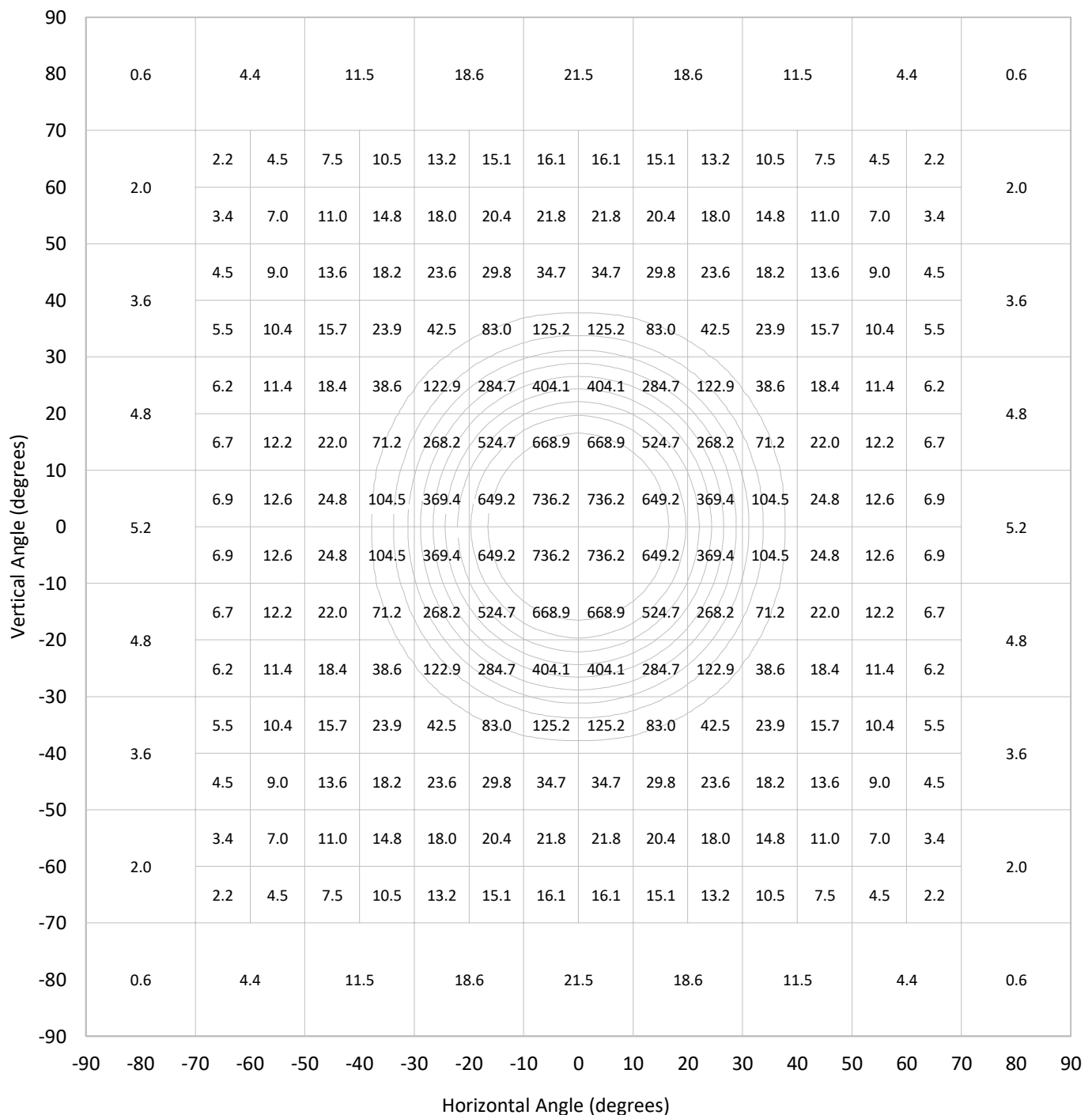
Iso-Candela Plot





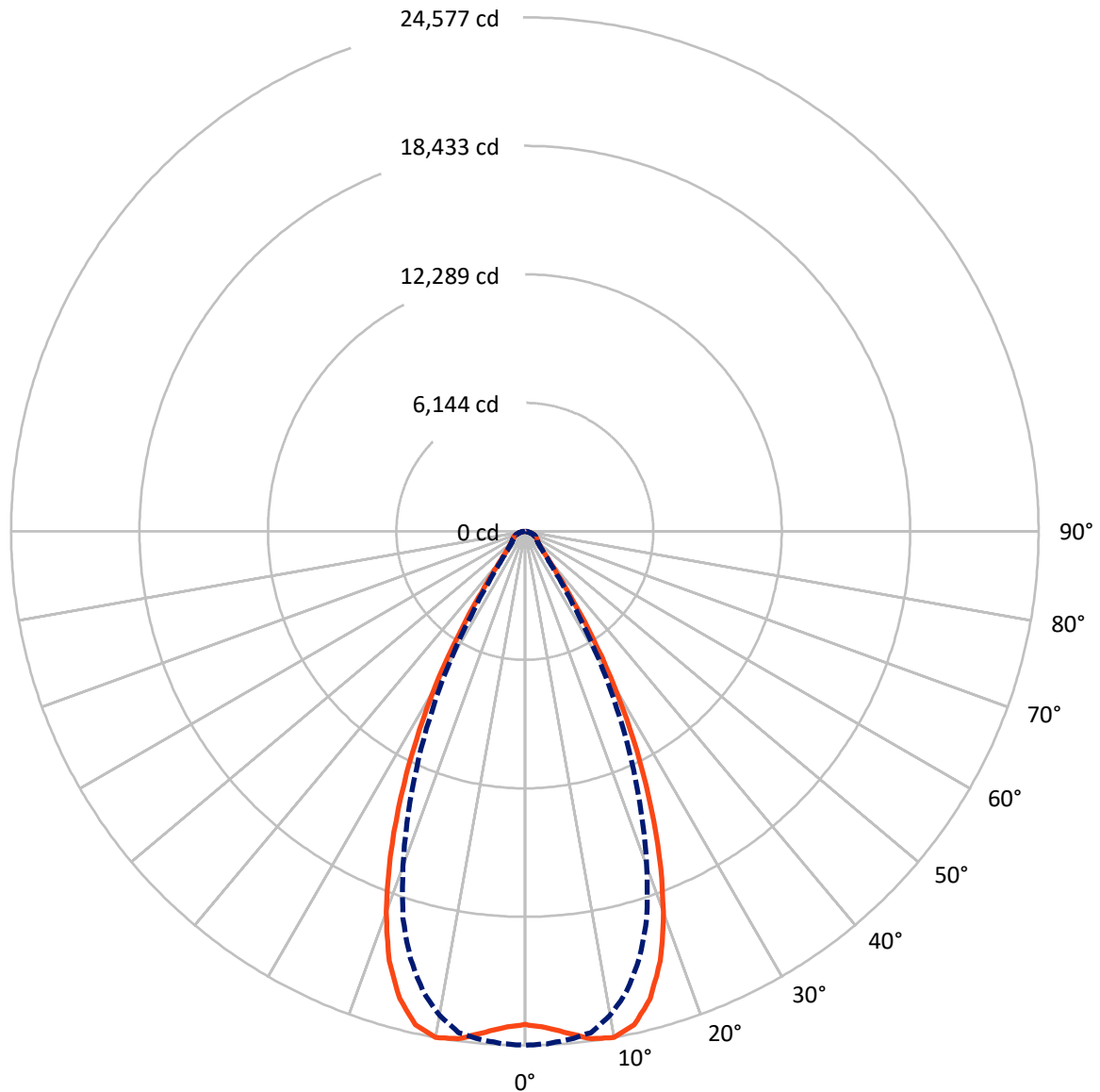
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Lumen Table



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Luminous Intensity Polar Plot

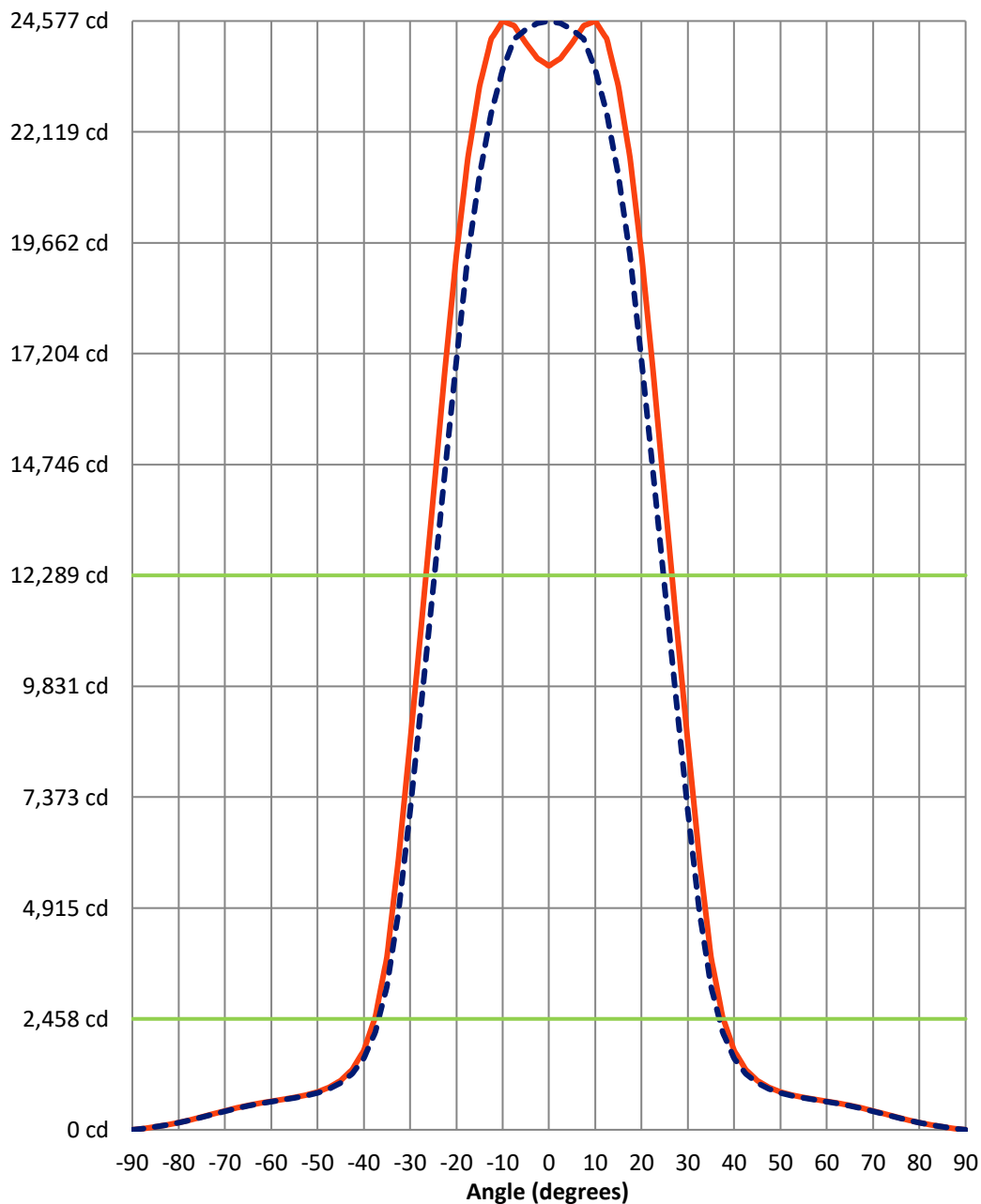


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 9995.9
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 13000
Efficiency: 64.6%

Spill:

Lumens: 7111.5
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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	25.1	25.1	25.1	25.1
85°	66.9	66.9	66.9	66.9	66.9	64.8	64.8	62.7	62.7	60.6	58.5
82.5°	108.6	108.6	108.6	108.6	106.5	106.5	104.5	102.4	100.3	98.2	96.1
80°	158.8	158.8	158.8	158.8	156.7	154.6	152.5	150.4	146.2	144.2	140.0
77.5°	217.3	217.3	217.3	215.2	213.1	211.0	206.8	202.6	198.5	194.3	190.1
75°	284.1	284.1	284.1	279.9	277.9	273.7	269.5	265.3	259.1	252.8	246.5
72.5°	353.1	353.1	353.1	348.9	344.7	340.5	336.4	330.1	323.8	315.5	307.1
70°	417.8	417.8	417.8	413.7	409.5	405.3	399.0	392.8	384.4	376.1	367.7
67.5°	484.7	484.7	484.7	478.4	474.2	470.1	463.8	455.4	447.1	436.6	426.2
65°	539.0	539.0	536.9	534.8	530.7	524.4	520.2	511.8	503.5	495.1	484.7
62.5°	589.1	589.1	587.1	585.0	580.8	574.5	568.3	562.0	553.6	543.2	532.7
60°	630.9	630.9	628.8	626.8	622.6	618.4	612.1	605.9	597.5	589.1	578.7
57.5°	672.7	672.7	670.6	668.5	664.4	658.1	651.8	645.6	637.2	626.8	616.3
55°	716.6	716.6	714.5	710.3	706.1	699.9	693.6	685.2	674.8	664.4	653.9
52.5°	768.8	768.8	764.6	760.5	754.2	747.9	737.5	727.0	714.5	702.0	689.4
50°	837.8	837.8	833.6	827.3	816.9	806.4	793.9	777.2	762.5	745.8	729.1
47.5°	940.1	940.1	931.8	921.3	906.7	890.0	867.0	841.9	821.0	800.2	775.1
45°	1090.5	1090.5	1078.0	1061.3	1038.3	1009.1	975.6	940.1	904.6	869.1	833.6
42.5°	1335.0	1335.0	1312.0	1282.8	1243.1	1192.9	1130.2	1071.7	1021.6	965.2	917.1
40°	1757.0	1757.0	1713.1	1658.8	1583.6	1487.5	1372.6	1280.7	1192.9	1094.7	1027.9
37.5°	2507.0	2507.0	2421.4	2316.9	2170.7	1986.8	1765.4	1617.0	1454.1	1299.5	1186.7
35°	3831.5	3831.5	3666.5	3463.9	3181.8	2826.7	2448.5	2168.6	1857.3	1619.1	1408.1
32.5°	6004.3	6004.3	5707.6	5342.0	4838.5	4201.3	3595.5	3062.7	2507.0	2112.2	1731.9
30°	8586.5	8586.5	8197.9	7719.5	7063.5	6236.2	5373.4	4427.0	3549.5	2845.5	2270.9
27.5°	11256.5	11145.7	10811.5	10266.2	9518.3	8586.5	7510.6	6288.4	5101.8	3860.8	3039.7
25°	14018.4	13888.8	13506.5	12879.8	12023.2	10968.2	9756.4	8390.1	6925.6	5446.5	4025.8
22.5°	16809.5	16663.3	16228.7	15520.5	14559.5	13377.0	12004.4	10485.6	8849.7	7140.8	5446.5
20°	19389.6	19235.0	18779.6	18042.1	17047.7	15750.3	14225.2	12541.3	10732.1	8849.7	6925.6
17.5°	21549.8	21401.5	20962.8	20258.7	19389.6	17954.4	16368.7	14517.7	12541.3	10485.6	8390.1
15°	23127.2	22999.7	22625.8	22034.5	21148.7	19878.5	18263.6	16368.7	14225.2	12004.4	9756.4
12.5°	24173.8	24071.5	23776.9	23317.3	22523.4	21457.9	19878.5	17954.4	15750.3	13377.0	10968.2
10°	24577.0	24526.9	24389.0	24178.0	23501.1	22523.4	21148.7	19389.6	17047.7	14559.5	12023.2
7.5°	24470.5	24487.2	24535.3	24480.9	24178.0	23317.3	22034.5	20258.7	18042.1	15520.5	12879.8
5°	24090.3	24180.1	24403.6	24535.3	24389.0	23776.9	22625.8	20962.8	18779.6	16228.7	13506.5
2.5°	23751.8	23891.8	24180.1	24487.2	24526.9	24071.5	22999.7	21401.5	19235.0	16663.3	13888.8
0°	23584.7	23751.8	24090.3	24470.5	24577.0	24173.8	23127.2	21549.8	19389.6	16809.5	14018.4

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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°	25.1	23.0	23.0	23.0	20.9	20.9	20.9	18.8	18.8	16.7	16.7
85°	58.5	56.4	54.3	52.2	50.1	48.1	46.0	43.9	41.8	37.6	35.5
82.5°	94.0	91.9	89.8	85.7	83.6	79.4	75.2	71.0	66.9	64.8	60.6
80°	135.8	131.6	127.4	123.3	117.0	110.7	106.5	100.3	96.1	89.8	85.7
77.5°	183.8	177.6	171.3	163.0	156.7	150.4	142.1	135.8	127.4	119.1	110.7
75°	238.2	229.8	219.4	211.0	202.6	192.2	181.8	171.3	160.9	150.4	140.0
72.5°	296.7	286.2	275.8	265.3	252.8	238.2	225.6	211.0	198.5	185.9	171.3
70°	357.2	344.7	332.2	319.6	305.0	288.3	273.7	257.0	240.3	223.5	206.8
67.5°	413.7	401.1	386.5	374.0	357.2	340.5	321.7	302.9	284.1	263.2	242.3
65°	472.2	457.5	440.8	424.1	407.4	388.6	369.8	351.0	328.0	305.0	284.1
62.5°	520.2	507.7	493.0	476.3	457.5	436.6	417.8	392.8	369.8	346.8	319.6
60°	566.2	551.5	539.0	520.2	503.5	484.7	461.7	436.6	411.6	384.4	359.3
57.5°	605.9	593.3	578.7	562.0	543.2	524.4	503.5	480.5	451.3	424.1	394.9
55°	641.4	626.8	612.1	597.5	580.8	559.9	539.0	516.0	491.0	461.7	430.4
52.5°	676.9	662.3	645.6	630.9	612.1	593.3	572.4	549.5	524.4	497.2	463.8
50°	712.4	695.7	679.0	660.2	641.4	622.6	601.7	580.8	553.6	526.5	497.2
47.5°	754.2	733.3	712.4	691.5	672.7	649.7	628.8	605.9	582.9	553.6	524.4
45°	806.4	775.1	750.0	724.9	702.0	679.0	653.9	630.9	605.9	580.8	549.5
42.5°	871.2	829.4	796.0	762.5	733.3	706.1	681.1	653.9	628.8	601.7	572.4
40°	958.9	902.5	848.2	806.4	768.8	735.4	706.1	679.0	649.7	622.6	593.3
37.5°	1073.8	994.4	919.2	858.7	810.6	768.8	733.3	702.0	672.7	641.4	612.1
35°	1247.2	1109.4	1013.2	925.5	858.7	806.4	762.5	724.9	691.5	660.2	630.9
32.5°	1491.7	1278.6	1124.0	1013.2	919.2	848.2	796.0	750.0	712.4	679.0	645.6
30°	1813.4	1518.8	1278.6	1109.4	994.4	902.5	829.4	775.1	733.3	695.7	662.3
27.5°	2323.2	1813.4	1491.7	1247.2	1073.8	958.9	871.2	806.4	754.2	712.4	676.9
25°	3039.7	2270.9	1731.9	1408.1	1186.7	1027.9	917.1	833.6	775.1	729.1	689.4
22.5°	3860.8	2845.5	2112.2	1619.1	1299.5	1094.7	965.2	869.1	800.2	745.8	702.0
20°	5101.8	3549.5	2507.0	1857.3	1454.1	1192.9	1021.6	904.6	821.0	762.5	714.5
17.5°	6288.4	4427.0	3062.7	2168.6	1617.0	1280.7	1071.7	940.1	841.9	777.2	727.0
15°	7510.6	5373.4	3595.5	2448.5	1765.4	1372.6	1130.2	975.6	867.0	793.9	737.5
12.5°	8586.5	6236.2	4201.3	2826.7	1986.8	1487.5	1192.9	1009.1	890.0	806.4	747.9
10°	9518.3	7063.5	4838.5	3181.8	2170.7	1583.6	1243.1	1038.3	906.7	816.9	754.2
7.5°	10266.2	7719.5	5342.0	3463.9	2316.9	1658.8	1282.8	1061.3	921.3	827.3	760.5
5°	10811.5	8197.9	5707.6	3666.5	2421.4	1713.1	1312.0	1078.0	931.8	833.6	764.6
2.5°	11145.7	8586.5	6004.3	3831.5	2507.0	1757.0	1335.0	1090.5	940.1	837.8	768.8
0°	11256.5	8586.5	6004.3	3831.5	2507.0	1757.0	1335.0	1090.5	940.1	837.8	768.8

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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°	14.6	14.6	12.5	12.5	10.4	10.4	8.4	8.4	6.3	6.3	4.2
85°	33.4	29.2	27.2	25.1	23.0	20.9	18.8	16.7	14.6	12.5	10.4
82.5°	56.4	52.2	46.0	41.8	37.6	33.4	27.2	25.1	20.9	16.7	14.6
80°	79.4	73.1	66.9	60.6	54.3	48.1	41.8	35.5	29.2	23.0	18.8
77.5°	102.4	94.0	87.7	79.4	71.0	62.7	54.3	46.0	37.6	29.2	23.0
75°	129.5	119.1	108.6	98.2	87.7	77.3	68.9	58.5	48.1	37.6	29.2
72.5°	158.8	144.2	131.6	119.1	104.5	94.0	81.5	71.0	58.5	46.0	35.5
70°	190.1	173.4	156.7	140.0	125.4	108.6	96.1	81.5	68.9	54.3	41.8
67.5°	221.5	202.6	183.8	163.0	144.2	127.4	108.6	94.0	77.3	62.7	48.1
65°	259.1	234.0	211.0	188.0	165.0	144.2	125.4	104.5	87.7	71.0	54.3
62.5°	294.6	267.4	240.3	213.1	188.0	163.0	140.0	119.1	98.2	79.4	60.6
60°	330.1	300.8	269.5	240.3	211.0	183.8	156.7	131.6	108.6	87.7	66.9
57.5°	365.6	332.2	300.8	267.4	234.0	202.6	173.4	144.2	119.1	94.0	73.1
55°	396.9	365.6	330.1	294.6	259.1	221.5	190.1	158.8	129.5	102.4	79.4
52.5°	430.4	394.9	359.3	319.6	284.1	242.3	206.8	171.3	140.0	110.7	85.7
50°	461.7	424.1	384.4	346.8	305.0	263.2	223.5	185.9	150.4	119.1	89.8
47.5°	491.0	451.3	411.6	369.8	328.0	284.1	240.3	198.5	160.9	127.4	96.1
45°	516.0	480.5	436.6	392.8	351.0	302.9	257.0	211.0	171.3	135.8	100.3
42.5°	539.0	503.5	461.7	417.8	369.8	321.7	273.7	225.6	181.8	142.1	106.5
40°	559.9	524.4	484.7	436.6	388.6	340.5	288.3	238.2	192.2	150.4	110.7
37.5°	580.8	543.2	503.5	457.5	407.4	357.2	305.0	252.8	202.6	156.7	117.0
35°	597.5	562.0	520.2	476.3	424.1	374.0	319.6	265.3	211.0	163.0	123.3
32.5°	612.1	578.7	539.0	493.0	440.8	386.5	332.2	275.8	219.4	171.3	127.4
30°	626.8	593.3	551.5	507.7	457.5	401.1	344.7	286.2	229.8	177.6	131.6
27.5°	641.4	605.9	566.2	520.2	472.2	413.7	357.2	296.7	238.2	183.8	135.8
25°	653.9	616.3	578.7	532.7	484.7	426.2	367.7	307.1	246.5	190.1	140.0
22.5°	664.4	626.8	589.1	543.2	495.1	436.6	376.1	315.5	252.8	194.3	144.2
20°	674.8	637.2	597.5	553.6	503.5	447.1	384.4	323.8	259.1	198.5	146.2
17.5°	685.2	645.6	605.9	562.0	511.8	455.4	392.8	330.1	265.3	202.6	150.4
15°	693.6	651.8	612.1	568.3	520.2	463.8	399.0	336.4	269.5	206.8	152.5
12.5°	699.9	658.1	618.4	574.5	524.4	470.1	405.3	340.5	273.7	211.0	154.6
10°	706.1	664.4	622.6	580.8	530.7	474.2	409.5	344.7	277.9	213.1	156.7
7.5°	710.3	668.5	626.8	585.0	534.8	478.4	413.7	348.9	279.9	215.2	158.8
5°	714.5	670.6	628.8	587.1	536.9	484.7	417.8	353.1	284.1	217.3	158.8
2.5°	716.6	672.7	630.9	589.1	539.0	484.7	417.8	353.1	284.1	217.3	158.8
0°	716.6	672.7	630.9	589.1	539.0	484.7	417.8	353.1	284.1	217.3	158.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	0.0
85°	6.3	4.2	2.1	0.0
82.5°	10.4	6.3	4.2	0.0
80°	14.6	10.4	4.2	0.0
77.5°	16.7	12.5	6.3	0.0
75°	20.9	14.6	6.3	0.0
72.5°	25.1	16.7	8.4	0.0
70°	27.2	18.8	8.4	0.0
67.5°	33.4	20.9	10.4	0.0
65°	37.6	23.0	10.4	0.0
62.5°	41.8	25.1	12.5	0.0
60°	46.0	27.2	12.5	0.0
57.5°	52.2	29.2	14.6	0.0
55°	56.4	33.4	14.6	0.0
52.5°	60.6	35.5	16.7	0.0
50°	64.8	37.6	16.7	0.0
47.5°	66.9	41.8	18.8	0.0
45°	71.0	43.9	18.8	0.0
42.5°	75.2	46.0	20.9	0.0
40°	79.4	48.1	20.9	0.0
37.5°	83.6	50.1	20.9	0.0
35°	85.7	52.2	23.0	0.0
32.5°	89.8	54.3	23.0	0.0
30°	91.9	56.4	23.0	0.0
27.5°	94.0	58.5	25.1	0.0
25°	96.1	58.5	25.1	0.0
22.5°	98.2	60.6	25.1	0.0
20°	100.3	62.7	25.1	0.0
17.5°	102.4	62.7	25.1	0.0
15°	104.5	64.8	27.2	0.0
12.5°	106.5	64.8	27.2	0.0
10°	106.5	66.9	27.2	0.0
7.5°	108.6	66.9	27.2	0.0
5°	108.6	66.9	27.2	0.0
2.5°	108.6	66.9	27.2	0.0
0°	108.6	66.9	27.2	0.0

(END OF REPORT)