

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: P623595

Luminaire Tested: **IFLD-M-SA4B-727-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	19915.8 lumens	Max Intensity:	24337.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	119.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

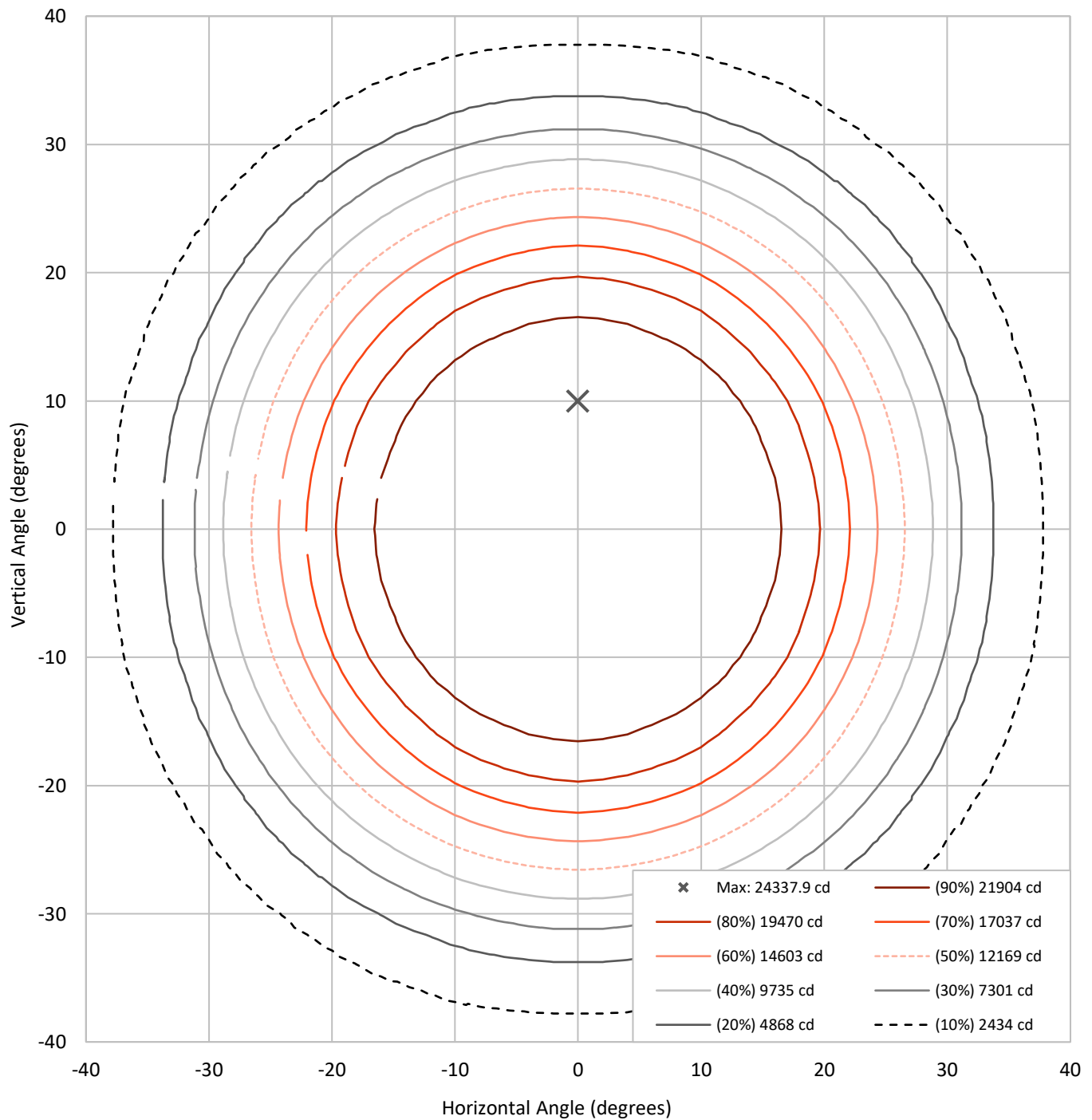
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	9898.6 lumens	Field Lumens:	12873.5 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 166.1
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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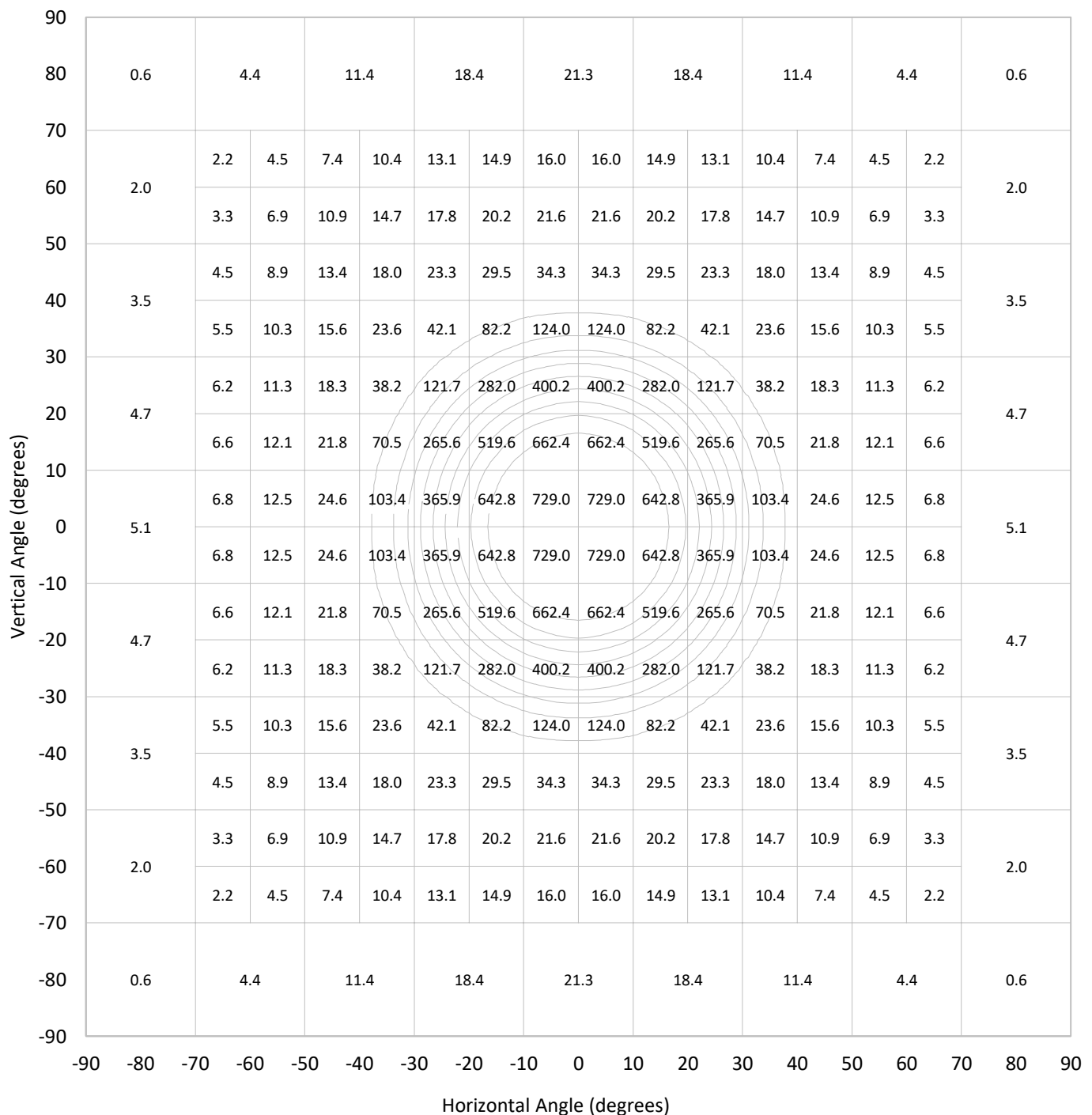
Iso-Candela Plot



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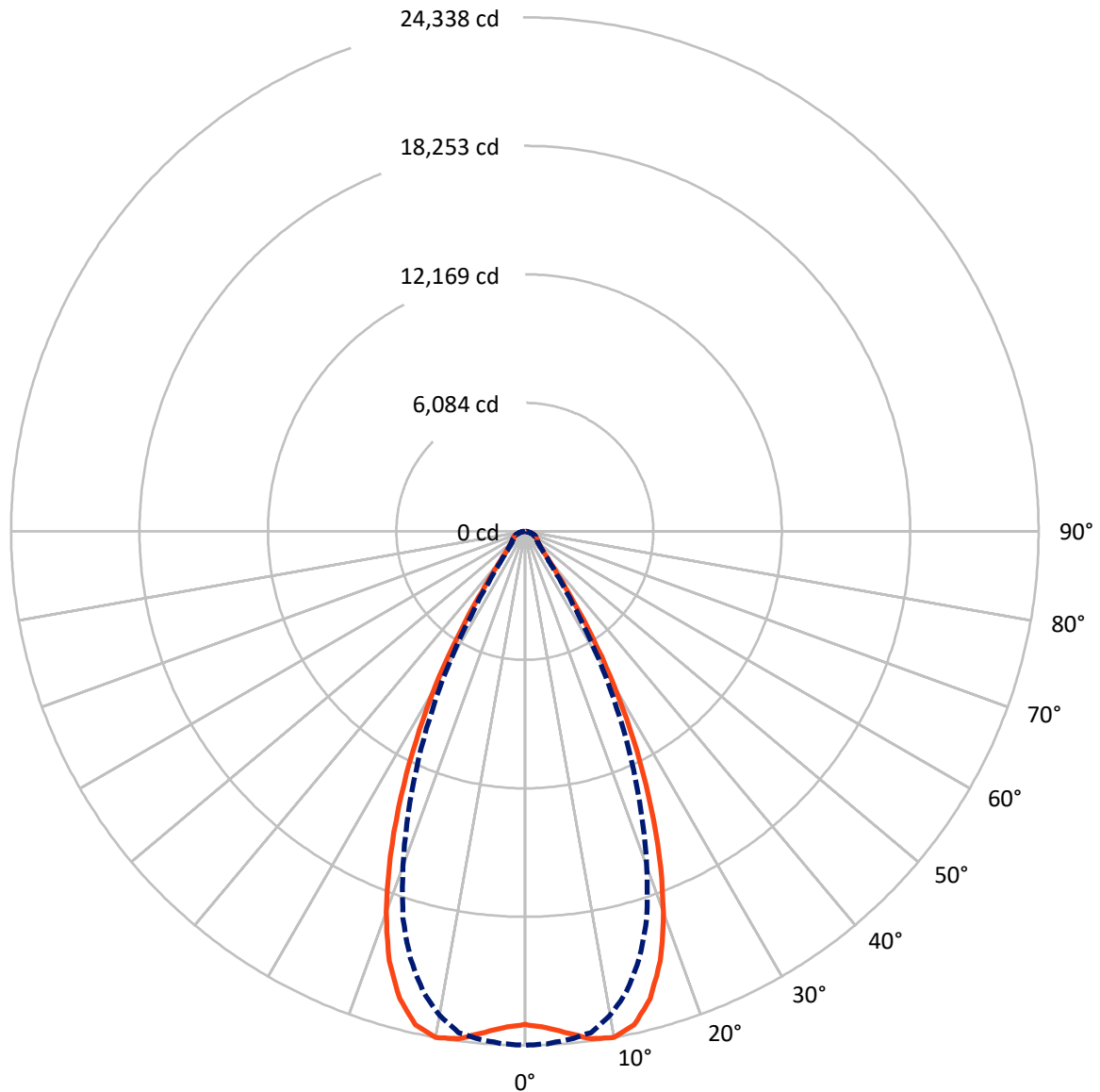
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Lumen Table



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Luminous Intensity Polar Plot

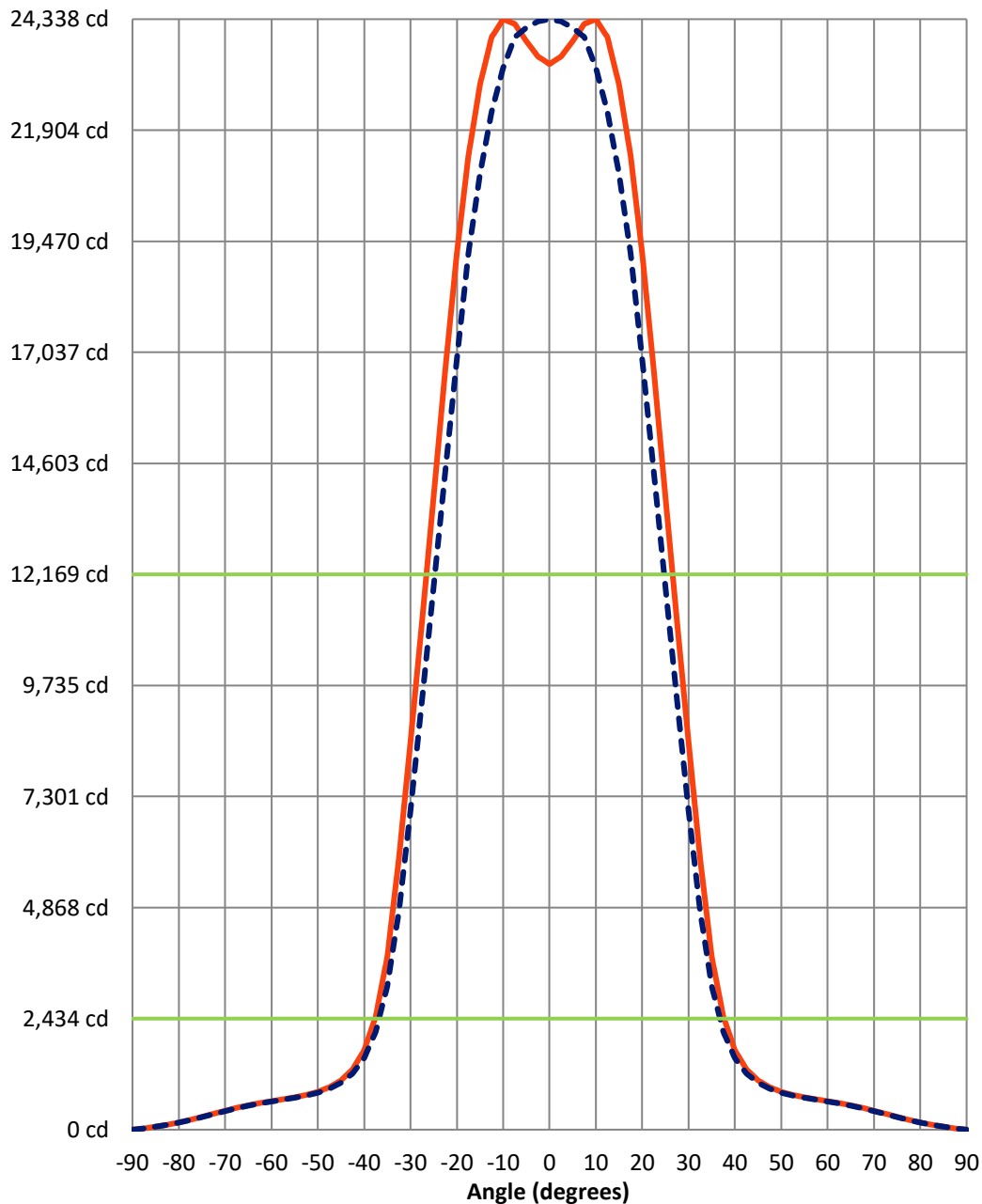


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 9898.6
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 12873.5
Efficiency: 64.6%

Spill:

Lumens: 7042.3
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°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	24.8	24.8	24.8	24.8
85°	66.2	66.2	66.2	66.2	66.2	64.1	64.1	62.1	62.1	60.0	57.9
82.5°	107.6	107.6	107.6	107.6	105.5	105.5	103.4	101.4	99.3	97.2	95.2
80°	157.2	157.2	157.2	157.2	155.2	153.1	151.0	149.0	144.8	142.8	138.6
77.5°	215.2	215.2	215.2	213.1	211.0	209.0	204.8	200.7	196.5	192.4	188.3
75°	281.4	281.4	281.4	277.2	275.2	271.0	266.9	262.7	256.5	250.3	244.1
72.5°	349.6	349.6	349.6	345.5	341.4	337.2	333.1	326.9	320.7	312.4	304.1
70°	413.8	413.8	413.8	409.6	405.5	401.4	395.1	388.9	380.7	372.4	364.1
67.5°	480.0	480.0	480.0	473.8	469.6	465.5	459.3	451.0	442.7	432.4	422.0
65°	533.8	533.8	531.7	529.6	525.5	519.3	515.1	506.9	498.6	490.3	480.0
62.5°	583.4	583.4	581.3	579.3	575.1	568.9	562.7	556.5	548.2	537.9	527.6
60°	624.8	624.8	622.7	620.7	616.5	612.4	606.2	600.0	591.7	583.4	573.1
57.5°	666.2	666.2	664.1	662.0	657.9	651.7	645.5	639.3	631.0	620.7	610.3
55°	709.6	709.6	707.5	703.4	699.3	693.1	686.9	678.6	668.2	657.9	647.5
52.5°	761.3	761.3	757.2	753.1	746.9	740.6	730.3	720.0	707.5	695.1	682.7
50°	829.6	829.6	825.5	819.3	808.9	798.6	786.2	769.6	755.1	738.6	722.0
47.5°	931.0	931.0	922.7	912.4	897.9	881.3	858.6	833.7	813.1	792.4	767.5
45°	1079.9	1079.9	1067.5	1051.0	1028.2	999.3	966.2	931.0	895.8	860.6	825.5
42.5°	1322.0	1322.0	1299.2	1270.3	1231.0	1181.3	1119.2	1061.3	1011.7	955.8	908.2
40°	1739.9	1739.9	1696.5	1642.7	1568.2	1473.0	1359.2	1268.2	1181.3	1084.1	1017.9
37.5°	2482.6	2482.6	2397.8	2294.3	2149.5	1967.5	1748.2	1601.3	1439.9	1286.8	1175.1
35°	3794.3	3794.3	3630.8	3430.1	3150.9	2799.1	2424.7	2147.5	1839.2	1603.4	1394.4
32.5°	5945.9	5945.9	5652.1	5290.0	4791.4	4160.4	3560.5	3032.9	2482.6	2091.6	1715.1
30°	8503.0	8503.0	8118.2	7644.4	6994.8	6175.5	5321.1	4383.9	3515.0	2817.8	2248.8
27.5°	11146.9	11037.3	10706.3	10166.3	9425.7	8503.0	7437.5	6227.2	5052.1	3823.2	3010.2
25°	13882.0	13753.7	13375.1	12754.4	11906.2	10861.4	9661.5	8308.5	6858.2	5393.5	3986.7
22.5°	16645.9	16501.1	16070.8	15369.5	14417.8	13246.8	11887.6	10383.5	8763.6	7071.3	5393.5
20°	19201.0	19047.9	18596.9	17866.6	16881.8	15597.0	14086.8	12419.3	10627.7	8763.6	6858.2
17.5°	21340.1	21193.3	20758.8	20061.6	19201.0	17779.7	16209.4	14376.4	12419.3	10383.5	8308.5
15°	22902.1	22775.9	22405.6	21820.1	20942.9	19685.1	18085.8	16209.4	14086.8	11887.6	9661.5
12.5°	23938.6	23837.2	23545.5	23090.4	22304.2	21249.1	19685.1	17779.7	15597.0	13246.8	10861.4
10°	24337.9	24288.2	24151.7	23942.8	23272.4	22304.2	20942.9	19201.0	16881.8	14417.8	11906.2
7.5°	24232.4	24248.9	24296.5	24242.7	23942.8	23090.4	21820.1	20061.6	17866.6	15369.5	12754.4
5°	23855.9	23944.8	24166.2	24296.5	24151.7	23545.5	22405.6	20758.8	18596.9	16070.8	13375.1
2.5°	23520.7	23659.3	23944.8	24248.9	24288.2	23837.2	22775.9	21193.3	19047.9	16501.1	13753.7
0°	23355.2	23520.7	23855.9	24232.4	24337.9	23938.6	22902.1	21340.1	19201.0	16645.9	13882.0

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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°	24.8	22.8	22.8	22.8	20.7	20.7	20.7	18.6	18.6	16.6	16.6
85°	57.9	55.9	53.8	51.7	49.7	47.6	45.5	43.4	41.4	37.2	35.2
82.5°	93.1	91.0	89.0	84.8	82.8	78.6	74.5	70.3	66.2	64.1	60.0
80°	134.5	130.3	126.2	122.1	115.9	109.6	105.5	99.3	95.2	89.0	84.8
77.5°	182.1	175.9	169.6	161.4	155.2	149.0	140.7	134.5	126.2	117.9	109.6
75°	235.8	227.6	217.2	209.0	200.7	190.3	180.0	169.6	159.3	149.0	138.6
72.5°	293.8	283.4	273.1	262.7	250.3	235.8	223.4	209.0	196.5	184.1	169.6
70°	353.8	341.4	328.9	316.5	302.1	285.5	271.0	254.5	237.9	221.4	204.8
67.5°	409.6	397.2	382.7	370.3	353.8	337.2	318.6	300.0	281.4	260.7	240.0
65°	467.6	453.1	436.5	420.0	403.4	384.8	366.2	347.6	324.8	302.1	281.4
62.5°	515.1	502.7	488.2	471.7	453.1	432.4	413.8	388.9	366.2	343.4	316.5
60°	560.7	546.2	533.8	515.1	498.6	480.0	457.2	432.4	407.6	380.7	355.8
57.5°	600.0	587.6	573.1	556.5	537.9	519.3	498.6	475.8	446.9	420.0	391.0
55°	635.1	620.7	606.2	591.7	575.1	554.5	533.8	511.0	486.2	457.2	426.2
52.5°	670.3	655.8	639.3	624.8	606.2	587.6	566.9	544.1	519.3	492.4	459.3
50°	705.5	688.9	672.4	653.8	635.1	616.5	595.8	575.1	548.2	521.3	492.4
47.5°	746.9	726.2	705.5	684.8	666.2	643.4	622.7	600.0	577.2	548.2	519.3
45°	798.6	767.5	742.7	717.9	695.1	672.4	647.5	624.8	600.0	575.1	544.1
42.5°	862.7	821.3	788.2	755.1	726.2	699.3	674.4	647.5	622.7	595.8	566.9
40°	949.6	893.7	840.0	798.6	761.3	728.2	699.3	672.4	643.4	616.5	587.6
37.5°	1063.4	984.8	910.3	850.3	802.7	761.3	726.2	695.1	666.2	635.1	606.2
35°	1235.1	1098.6	1003.4	916.5	850.3	798.6	755.1	717.9	684.8	653.8	624.8
32.5°	1477.2	1266.1	1113.0	1003.4	910.3	840.0	788.2	742.7	705.5	672.4	639.3
30°	1795.8	1504.1	1266.1	1098.6	984.8	893.7	821.3	767.5	726.2	688.9	655.8
27.5°	2300.6	1795.8	1477.2	1235.1	1063.4	949.6	862.7	798.6	746.9	705.5	670.3
25°	3010.2	2248.8	1715.1	1394.4	1175.1	1017.9	908.2	825.5	767.5	722.0	682.7
22.5°	3823.2	2817.8	2091.6	1603.4	1286.8	1084.1	955.8	860.6	792.4	738.6	695.1
20°	5052.1	3515.0	2482.6	1839.2	1439.9	1181.3	1011.7	895.8	813.1	755.1	707.5
17.5°	6227.2	4383.9	3032.9	2147.5	1601.3	1268.2	1061.3	931.0	833.7	769.6	720.0
15°	7437.5	5321.1	3560.5	2424.7	1748.2	1359.2	1119.2	966.2	858.6	786.2	730.3
12.5°	8503.0	6175.5	4160.4	2799.1	1967.5	1473.0	1181.3	999.3	881.3	798.6	740.6
10°	9425.7	6994.8	4791.4	3150.9	2149.5	1568.2	1231.0	1028.2	897.9	808.9	746.9
7.5°	10166.3	7644.4	5290.0	3430.1	2294.3	1642.7	1270.3	1051.0	912.4	819.3	753.1
5°	10706.3	8118.2	5652.1	3630.8	2397.8	1696.5	1299.2	1067.5	922.7	825.5	757.2
2.5°	11037.3	8503.0	5945.9	3794.3	2482.6	1739.9	1322.0	1079.9	931.0	829.6	761.3
0°	11146.9	8503.0	5945.9	3794.3	2482.6	1739.9	1322.0	1079.9	931.0	829.6	761.3

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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°	14.5	14.5	12.4	12.4	10.3	10.3	8.3	8.3	6.2	6.2	4.1
85°	33.1	29.0	26.9	24.8	22.8	20.7	18.6	16.6	14.5	12.4	10.3
82.5°	55.9	51.7	45.5	41.4	37.2	33.1	26.9	24.8	20.7	16.6	14.5
80°	78.6	72.4	66.2	60.0	53.8	47.6	41.4	35.2	29.0	22.8	18.6
77.5°	101.4	93.1	86.9	78.6	70.3	62.1	53.8	45.5	37.2	29.0	22.8
75°	128.3	117.9	107.6	97.2	86.9	76.5	68.3	57.9	47.6	37.2	29.0
72.5°	157.2	142.8	130.3	117.9	103.4	93.1	80.7	70.3	57.9	45.5	35.2
70°	188.3	171.7	155.2	138.6	124.1	107.6	95.2	80.7	68.3	53.8	41.4
67.5°	219.3	200.7	182.1	161.4	142.8	126.2	107.6	93.1	76.5	62.1	47.6
65°	256.5	231.7	209.0	186.2	163.4	142.8	124.1	103.4	86.9	70.3	53.8
62.5°	291.7	264.8	237.9	211.0	186.2	161.4	138.6	117.9	97.2	78.6	60.0
60°	326.9	297.9	266.9	237.9	209.0	182.1	155.2	130.3	107.6	86.9	66.2
57.5°	362.0	328.9	297.9	264.8	231.7	200.7	171.7	142.8	117.9	93.1	72.4
55°	393.1	362.0	326.9	291.7	256.5	219.3	188.3	157.2	128.3	101.4	78.6
52.5°	426.2	391.0	355.8	316.5	281.4	240.0	204.8	169.6	138.6	109.6	84.8
50°	457.2	420.0	380.7	343.4	302.1	260.7	221.4	184.1	149.0	117.9	89.0
47.5°	486.2	446.9	407.6	366.2	324.8	281.4	237.9	196.5	159.3	126.2	95.2
45°	511.0	475.8	432.4	388.9	347.6	300.0	254.5	209.0	169.6	134.5	99.3
42.5°	533.8	498.6	457.2	413.8	366.2	318.6	271.0	223.4	180.0	140.7	105.5
40°	554.5	519.3	480.0	432.4	384.8	337.2	285.5	235.8	190.3	149.0	109.6
37.5°	575.1	537.9	498.6	453.1	403.4	353.8	302.1	250.3	200.7	155.2	115.9
35°	591.7	556.5	515.1	471.7	420.0	370.3	316.5	262.7	209.0	161.4	122.1
32.5°	606.2	573.1	533.8	488.2	436.5	382.7	328.9	273.1	217.2	169.6	126.2
30°	620.7	587.6	546.2	502.7	453.1	397.2	341.4	283.4	227.6	175.9	130.3
27.5°	635.1	600.0	560.7	515.1	467.6	409.6	353.8	293.8	235.8	182.1	134.5
25°	647.5	610.3	573.1	527.6	480.0	422.0	364.1	304.1	244.1	188.3	138.6
22.5°	657.9	620.7	583.4	537.9	490.3	432.4	372.4	312.4	250.3	192.4	142.8
20°	668.2	631.0	591.7	548.2	498.6	442.7	380.7	320.7	256.5	196.5	144.8
17.5°	678.6	639.3	600.0	556.5	506.9	451.0	388.9	326.9	262.7	200.7	149.0
15°	686.9	645.5	606.2	562.7	515.1	459.3	395.1	333.1	266.9	204.8	151.0
12.5°	693.1	651.7	612.4	568.9	519.3	465.5	401.4	337.2	271.0	209.0	153.1
10°	699.3	657.9	616.5	575.1	525.5	469.6	405.5	341.4	275.2	211.0	155.2
7.5°	703.4	662.0	620.7	579.3	529.6	473.8	409.6	345.5	277.2	213.1	157.2
5°	707.5	664.1	622.7	581.3	531.7	480.0	413.8	349.6	281.4	215.2	157.2
2.5°	709.6	666.2	624.8	583.4	533.8	480.0	413.8	349.6	281.4	215.2	157.2
0°	709.6	666.2	624.8	583.4	533.8	480.0	413.8	349.6	281.4	215.2	157.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.1	2.1	2.1	0.0
85°	6.2	4.1	2.1	0.0
82.5°	10.3	6.2	4.1	0.0
80°	14.5	10.3	4.1	0.0
77.5°	16.6	12.4	6.2	0.0
75°	20.7	14.5	6.2	0.0
72.5°	24.8	16.6	8.3	0.0
70°	26.9	18.6	8.3	0.0
67.5°	33.1	20.7	10.3	0.0
65°	37.2	22.8	10.3	0.0
62.5°	41.4	24.8	12.4	0.0
60°	45.5	26.9	12.4	0.0
57.5°	51.7	29.0	14.5	0.0
55°	55.9	33.1	14.5	0.0
52.5°	60.0	35.2	16.6	0.0
50°	64.1	37.2	16.6	0.0
47.5°	66.2	41.4	18.6	0.0
45°	70.3	43.4	18.6	0.0
42.5°	74.5	45.5	20.7	0.0
40°	78.6	47.6	20.7	0.0
37.5°	82.8	49.7	20.7	0.0
35°	84.8	51.7	22.8	0.0
32.5°	89.0	53.8	22.8	0.0
30°	91.0	55.9	22.8	0.0
27.5°	93.1	57.9	24.8	0.0
25°	95.2	57.9	24.8	0.0
22.5°	97.2	60.0	24.8	0.0
20°	99.3	62.1	24.8	0.0
17.5°	101.4	62.1	24.8	0.0
15°	103.4	64.1	26.9	0.0
12.5°	105.5	64.1	26.9	0.0
10°	105.5	66.2	26.9	0.0
7.5°	107.6	66.2	26.9	0.0
5°	107.6	66.2	26.9	0.0
2.5°	107.6	66.2	26.9	0.0
0°	107.6	66.2	26.9	0.0

(END OF REPORT)