

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: P623435

Luminaire Tested: **IFLD-S-SA2B-750-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	12127 lumens	Max Intensity:	39213.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

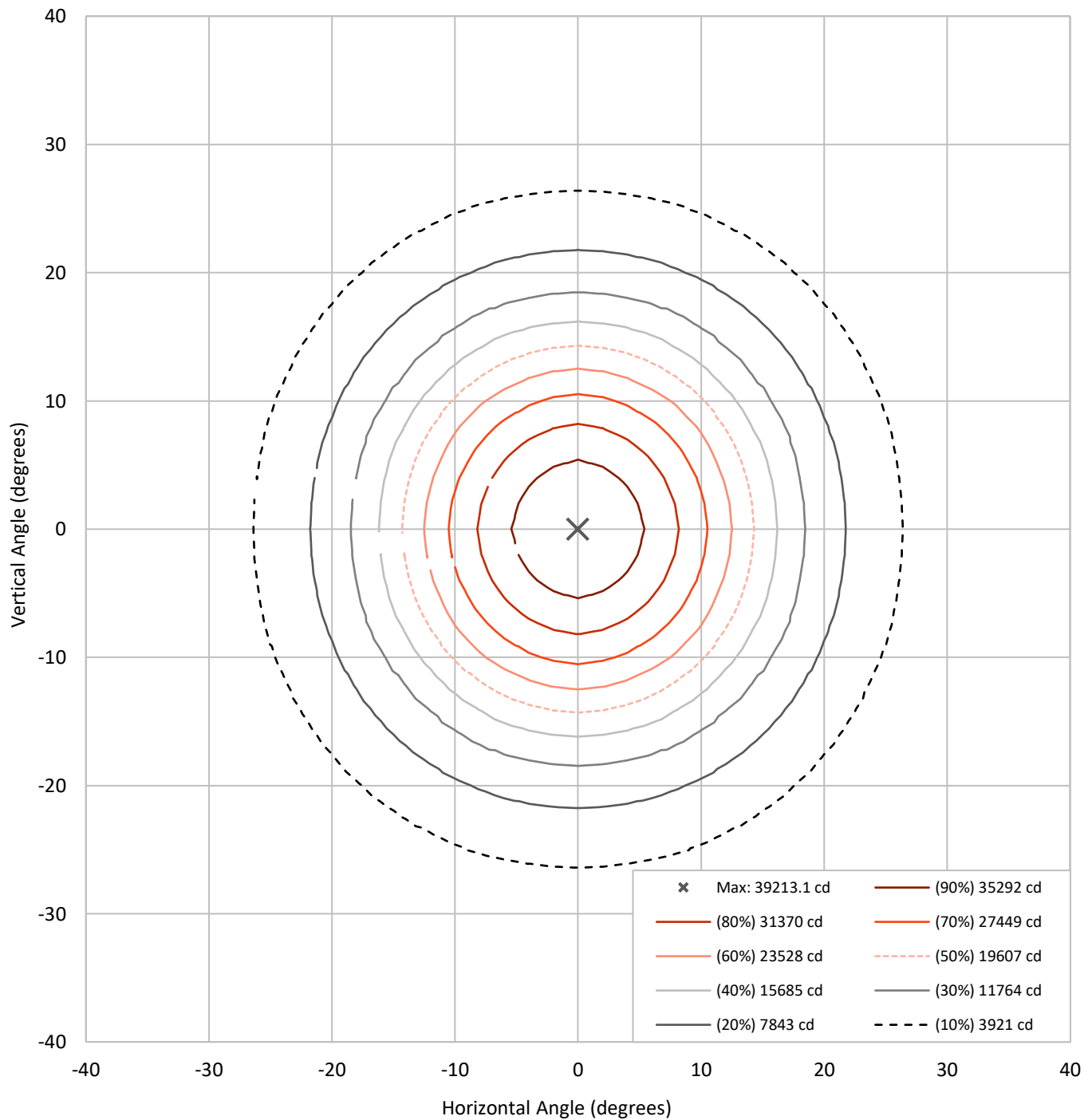
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	4375.6 lumens	Field Lumens:	7388.9 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 82.4
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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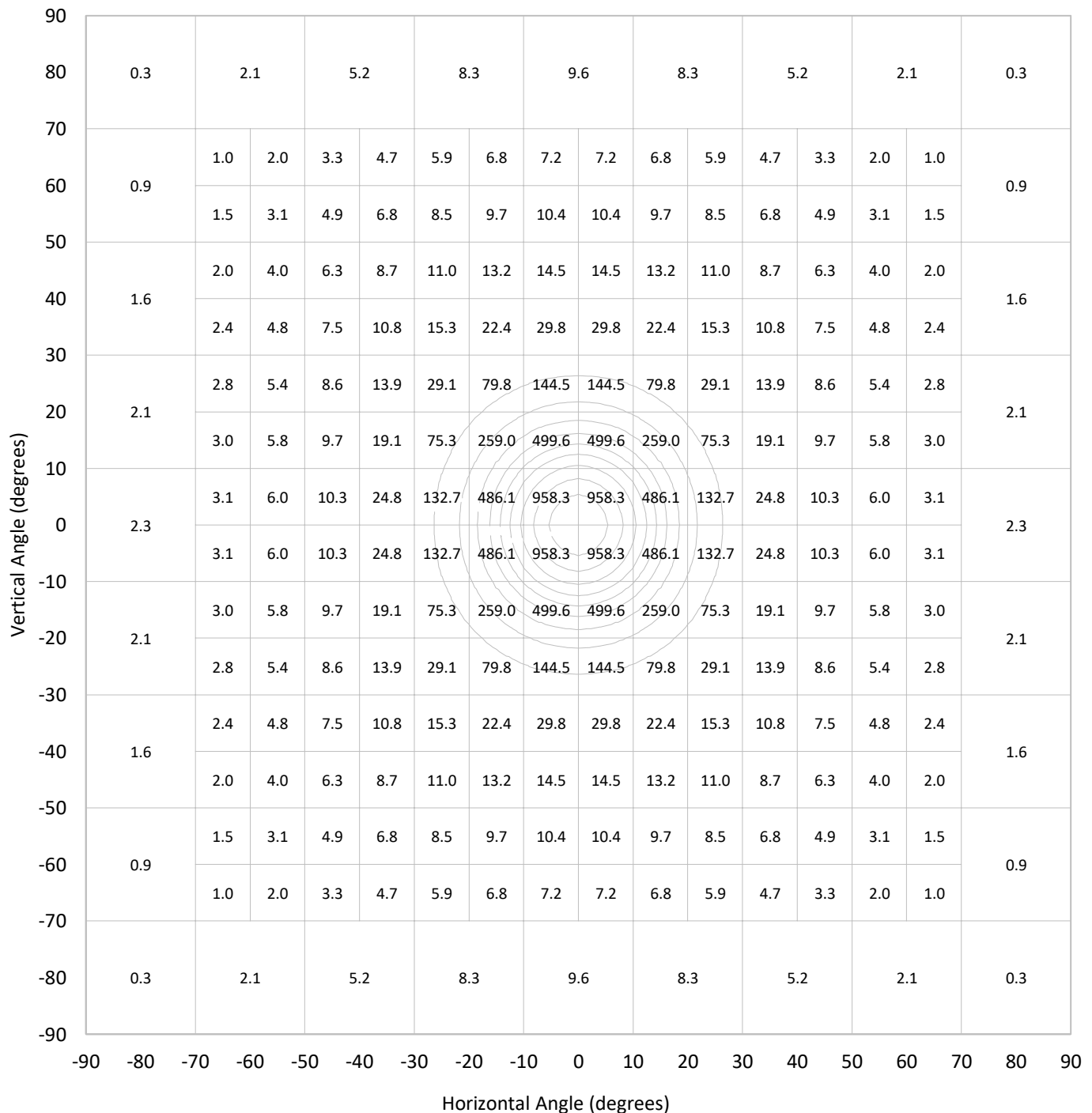
Iso-Candela Plot



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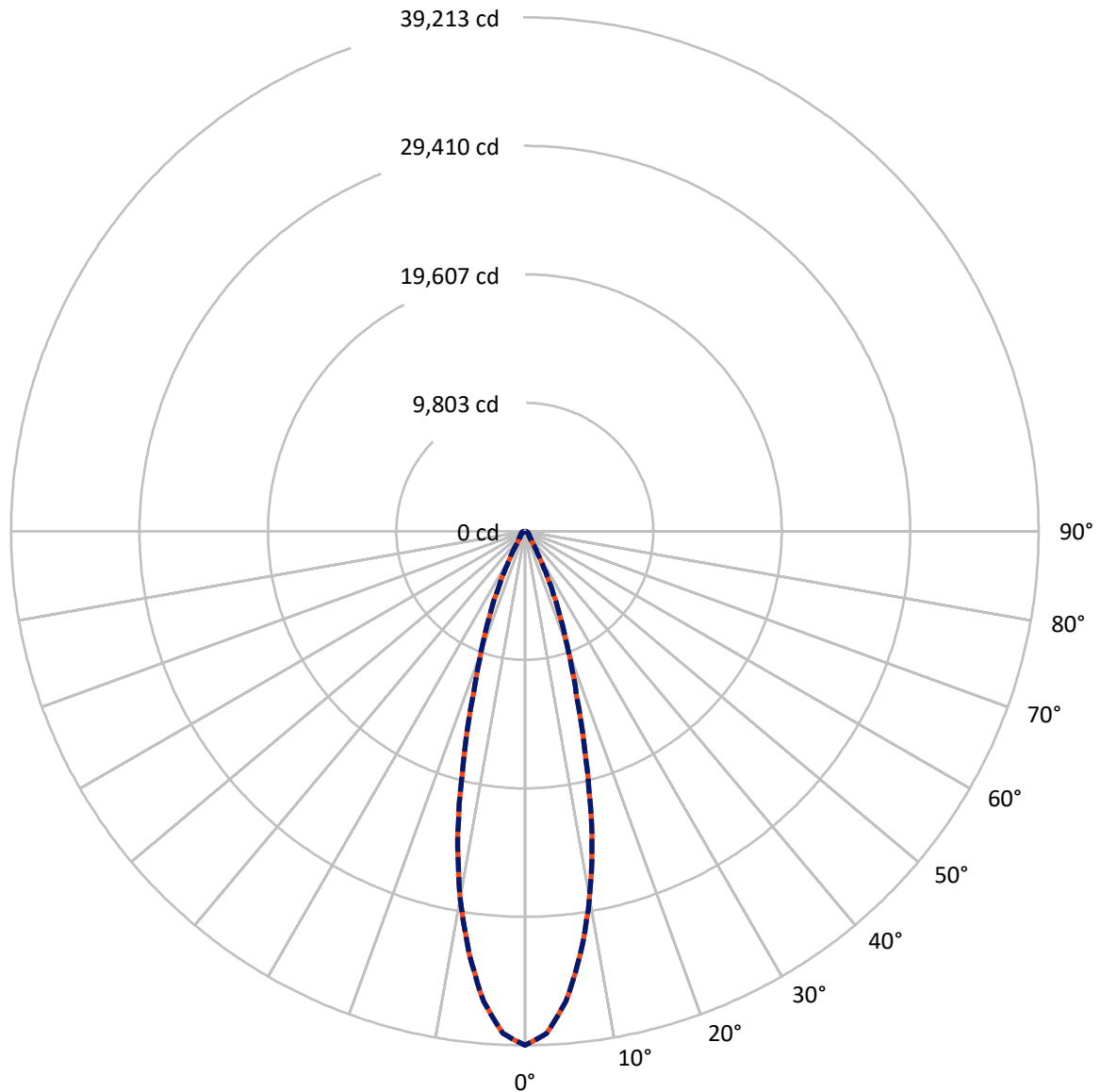
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Lumen Table



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Luminous Intensity Polar Plot

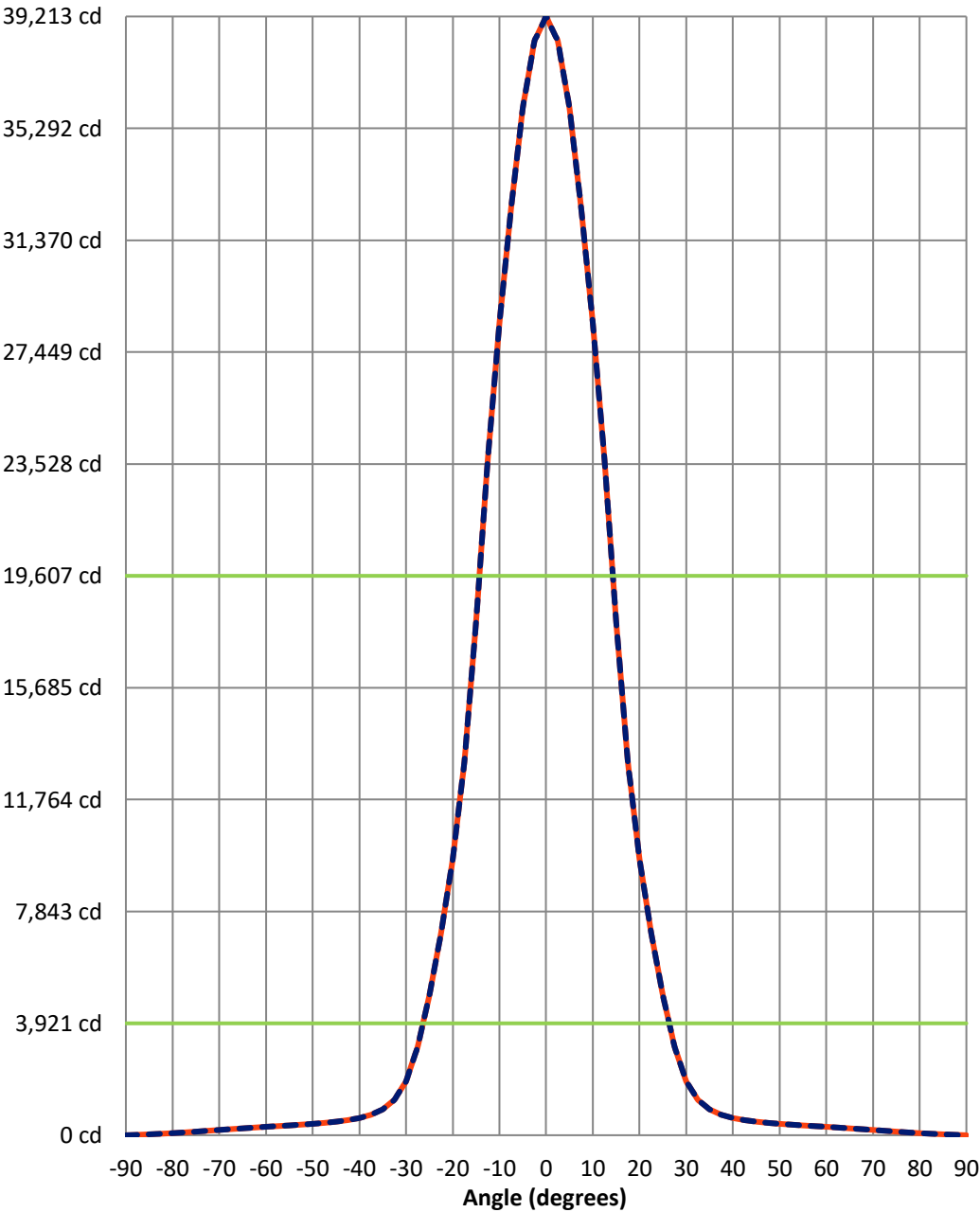


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 4375.6
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 7388.9
Efficiency: 60.9%

Spill:
Lumens: 4738.1
Efficiency: 39.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	12.6	12.6	12.6	12.6
85°	31.6	31.6	31.6	31.6	31.6	30.3	30.3	30.3	29.1	29.1	27.8
82.5°	50.6	50.6	50.6	50.6	49.3	49.3	48.0	48.0	46.8	46.8	45.5
80°	72.1	72.1	72.1	72.1	70.8	69.5	69.5	68.3	67.0	65.7	64.5
77.5°	97.4	97.4	97.4	96.1	94.8	94.8	93.6	91.0	89.8	87.2	86.0
75°	125.2	125.2	125.2	123.9	122.6	121.4	118.9	117.6	115.1	112.5	108.7
72.5°	155.5	155.5	155.5	154.3	151.7	150.5	147.9	145.4	142.9	139.1	135.3
70°	184.6	184.6	184.6	182.1	180.8	178.3	175.7	173.2	169.4	165.6	161.8
67.5°	213.7	213.7	213.7	211.1	209.9	207.4	204.8	201.0	197.2	192.2	188.4
65°	240.2	240.2	239.0	237.7	236.4	233.9	230.1	227.6	223.8	218.7	213.7
62.5°	268.0	268.0	266.8	265.5	263.0	260.5	256.7	252.9	247.8	242.8	237.7
60°	295.9	295.9	294.6	293.3	290.8	287.0	283.2	279.4	274.4	268.0	261.7
57.5°	318.6	318.6	317.4	316.1	313.6	311.0	307.2	303.4	298.4	293.3	285.7
55°	342.6	342.6	341.4	338.9	336.3	333.8	330.0	324.9	319.9	313.6	308.5
52.5°	370.5	370.5	369.2	366.7	362.9	359.1	354.0	347.7	341.4	335.1	327.5
50°	398.3	398.3	395.7	393.2	390.7	385.6	380.6	374.3	366.7	359.1	350.2
47.5°	432.4	432.4	429.9	426.1	421.0	416.0	408.4	399.5	392.0	383.1	373.0
45°	474.1	474.1	470.3	466.6	460.2	451.4	442.5	432.4	421.0	409.7	397.0
42.5°	528.5	528.5	523.4	517.1	508.3	496.9	483.0	469.1	455.2	440.0	424.8
40°	601.8	601.8	594.3	585.4	571.5	555.1	534.8	515.9	496.9	475.4	456.4
37.5°	716.9	716.9	704.3	687.8	665.1	637.2	603.1	577.8	548.7	520.9	495.6
35°	905.3	905.3	882.5	853.4	813.0	762.4	708.0	665.1	617.0	577.8	541.1
32.5°	1240.3	1240.3	1194.8	1137.9	1060.8	962.2	871.1	795.3	716.9	656.2	598.0
30°	1889.0	1889.0	1791.6	1671.5	1505.9	1298.5	1143.0	997.6	864.8	764.9	680.2
27.5°	3106.5	3056.0	2904.3	2655.2	2313.8	1889.0	1618.4	1311.1	1101.3	910.3	792.8
25°	4904.5	4821.0	4570.7	4162.3	3606.0	2975.1	2422.5	1839.7	1471.7	1154.4	935.6
22.5°	7089.3	6974.2	6634.1	6079.1	5326.8	4487.2	3593.3	2755.1	2009.1	1526.1	1154.4
20°	9676.2	9521.9	9065.5	8324.6	7328.3	6259.9	5066.3	3943.6	2867.6	2009.1	1471.7
17.5°	13091.3	12856.1	12164.5	11051.8	9676.2	8236.1	6744.1	5295.2	3943.6	2755.1	1839.7
15°	18000.8	17603.8	16443.1	14599.6	12457.8	10450.0	8547.1	6744.1	5066.3	3593.3	2422.5
12.5°	23676.5	23124.0	21524.6	19030.0	16119.4	12944.6	10450.0	8236.1	6259.9	4487.2	2975.1
10°	28458.4	27875.5	26223.0	23720.8	20030.1	16119.4	12457.8	9676.2	7328.3	5326.8	3606.0
7.5°	32498.0	31845.6	30064.1	27326.8	23720.8	19030.0	14599.6	11051.8	8324.6	6079.1	4162.3
5°	36006.6	35179.7	33106.2	30064.1	26223.0	21524.6	16443.1	12164.5	9065.5	6634.1	4570.7
2.5°	38350.8	37379.7	35179.7	31845.6	27875.5	23124.0	17603.8	12856.1	9521.9	6974.2	4821.0
0°	39213.1	38350.8	36006.6	32498.0	28458.4	23676.5	18000.8	13091.3	9676.2	7089.3	4904.5

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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°	12.6	12.6	11.4	11.4	11.4	10.1	10.1	10.1	8.9	8.9	8.9
85°	27.8	26.6	26.6	25.3	24.0	22.8	22.8	21.5	20.2	19.0	17.7
82.5°	44.3	43.0	41.7	40.5	39.2	36.7	35.4	34.1	31.6	30.3	29.1
80°	62.0	60.7	58.2	56.9	54.4	51.8	49.3	46.8	44.3	41.7	39.2
77.5°	83.4	79.7	77.1	74.6	70.8	68.3	64.5	62.0	58.2	54.4	50.6
75°	106.2	102.4	98.6	94.8	91.0	86.0	82.2	77.1	73.3	68.3	64.5
72.5°	131.5	126.4	121.4	116.3	111.3	106.2	101.1	94.8	89.8	83.4	77.1
70°	156.8	151.7	146.7	140.3	134.0	127.7	121.4	113.8	107.5	99.9	92.3
67.5°	183.3	177.0	170.7	164.4	158.0	150.5	141.6	134.0	125.2	116.3	108.7
65°	208.6	202.3	194.7	187.1	179.5	172.0	163.1	154.3	144.1	134.0	125.2
62.5°	231.4	225.1	218.7	209.9	202.3	193.4	184.6	173.2	163.1	153.0	141.6
60°	255.4	247.8	240.2	231.4	222.5	213.7	203.6	192.2	182.1	169.4	158.0
57.5°	278.2	270.6	261.7	252.9	242.8	232.6	222.5	211.1	199.8	187.1	174.5
55°	300.9	293.3	284.5	274.4	263.0	251.6	240.2	228.9	217.5	203.6	189.7
52.5°	319.9	312.3	303.4	295.9	283.2	271.8	259.2	245.3	232.6	218.7	204.8
50°	340.1	331.3	321.1	312.3	302.2	290.8	276.9	263.0	247.8	233.9	218.7
47.5°	362.9	351.5	340.1	328.7	318.6	306.0	294.6	279.4	264.3	247.8	232.6
45°	385.6	373.0	360.3	346.4	333.8	321.1	308.5	295.9	279.4	263.0	245.3
42.5°	409.7	394.5	380.6	366.7	351.5	336.3	322.4	308.5	294.6	276.9	259.2
40°	437.5	419.8	402.1	385.6	370.5	352.8	336.3	321.1	306.0	290.8	271.8
37.5°	469.1	447.6	426.1	405.9	386.9	370.5	351.5	333.8	318.6	302.2	283.2
35°	509.5	477.9	452.6	427.4	405.9	385.6	366.7	346.4	328.7	312.3	295.9
32.5°	555.1	515.9	481.7	452.6	426.1	402.1	380.6	360.3	340.1	321.1	303.4
30°	610.7	560.1	515.9	477.9	447.6	419.8	394.5	373.0	351.5	331.3	312.3
27.5°	689.1	610.7	555.1	509.5	469.1	437.5	409.7	385.6	362.9	340.1	319.9
25°	792.8	680.2	598.0	541.1	495.6	456.4	424.8	397.0	373.0	350.2	327.5
22.5°	910.3	764.9	656.2	577.8	520.9	475.4	440.0	409.7	383.1	359.1	335.1
20°	1101.3	864.8	716.9	617.0	548.7	496.9	455.2	421.0	392.0	366.7	341.4
17.5°	1311.1	997.6	795.3	665.1	577.8	515.9	469.1	432.4	399.5	374.3	347.7
15°	1618.4	1143.0	871.1	708.0	603.1	534.8	483.0	442.5	408.4	380.6	354.0
12.5°	1889.0	1298.5	962.2	762.4	637.2	555.1	496.9	451.4	416.0	385.6	359.1
10°	2313.8	1505.9	1060.8	813.0	665.1	571.5	508.3	460.2	421.0	390.7	362.9
7.5°	2655.2	1671.5	1137.9	853.4	687.8	585.4	517.1	466.6	426.1	393.2	366.7
5°	2904.3	1791.6	1194.8	882.5	704.3	594.3	523.4	470.3	429.9	395.7	369.2
2.5°	3056.0	1889.0	1240.3	905.3	716.9	601.8	528.5	474.1	432.4	398.3	370.5
0°	3106.5	1889.0	1240.3	905.3	716.9	601.8	528.5	474.1	432.4	398.3	370.5

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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°	7.6	7.6	6.3	6.3	6.3	5.1	5.1	3.8	3.8	2.5	2.5
85°	16.4	15.2	13.9	12.6	11.4	10.1	10.1	8.9	7.6	6.3	5.1
82.5°	26.6	25.3	22.8	20.2	19.0	16.4	13.9	12.6	11.4	8.9	7.6
80°	36.7	34.1	31.6	29.1	26.6	22.8	20.2	17.7	13.9	11.4	10.1
77.5°	48.0	44.3	40.5	36.7	32.9	30.3	26.6	22.8	19.0	15.2	11.4
75°	59.4	54.4	50.6	45.5	41.7	36.7	31.6	27.8	24.0	19.0	13.9
72.5°	72.1	65.7	60.7	54.4	49.3	44.3	37.9	32.9	27.8	22.8	17.7
70°	86.0	78.4	70.8	64.5	58.2	50.6	44.3	37.9	31.6	26.6	20.2
67.5°	99.9	91.0	82.2	73.3	65.7	58.2	50.6	44.3	36.7	30.3	22.8
65°	113.8	103.7	94.8	84.7	74.6	65.7	58.2	49.3	41.7	32.9	26.6
62.5°	129.0	117.6	106.2	94.8	84.7	73.3	64.5	54.4	45.5	36.7	29.1
60°	145.4	132.8	118.9	106.2	94.8	82.2	70.8	60.7	50.6	40.5	31.6
57.5°	160.6	146.7	132.8	117.6	103.7	91.0	78.4	65.7	54.4	44.3	34.1
55°	175.7	160.6	145.4	129.0	113.8	99.9	86.0	72.1	59.4	48.0	36.7
52.5°	189.7	174.5	158.0	141.6	125.2	108.7	92.3	77.1	64.5	50.6	39.2
50°	203.6	187.1	169.4	153.0	134.0	116.3	99.9	83.4	68.3	54.4	41.7
47.5°	217.5	199.8	182.1	163.1	144.1	125.2	107.5	89.8	73.3	58.2	44.3
45°	228.9	211.1	192.2	173.2	154.3	134.0	113.8	94.8	77.1	62.0	46.8
42.5°	240.2	222.5	203.6	184.6	163.1	141.6	121.4	101.1	82.2	64.5	49.3
40°	251.6	232.6	213.7	193.4	172.0	150.5	127.7	106.2	86.0	68.3	51.8
37.5°	263.0	242.8	222.5	202.3	179.5	158.0	134.0	111.3	91.0	70.8	54.4
35°	274.4	252.9	231.4	209.9	187.1	164.4	140.3	116.3	94.8	74.6	56.9
32.5°	284.5	261.7	240.2	218.7	194.7	170.7	146.7	121.4	98.6	77.1	58.2
30°	293.3	270.6	247.8	225.1	202.3	177.0	151.7	126.4	102.4	79.7	60.7
27.5°	300.9	278.2	255.4	231.4	208.6	183.3	156.8	131.5	106.2	83.4	62.0
25°	308.5	285.7	261.7	237.7	213.7	188.4	161.8	135.3	108.7	86.0	64.5
22.5°	313.6	293.3	268.0	242.8	218.7	192.2	165.6	139.1	112.5	87.2	65.7
20°	319.9	298.4	274.4	247.8	223.8	197.2	169.4	142.9	115.1	89.8	67.0
17.5°	324.9	303.4	279.4	252.9	227.6	201.0	173.2	145.4	117.6	91.0	68.3
15°	330.0	307.2	283.2	256.7	230.1	204.8	175.7	147.9	118.9	93.6	69.5
12.5°	333.8	311.0	287.0	260.5	233.9	207.4	178.3	150.5	121.4	94.8	69.5
10°	336.3	313.6	290.8	263.0	236.4	209.9	180.8	151.7	122.6	94.8	70.8
7.5°	338.9	316.1	293.3	265.5	237.7	211.1	182.1	154.3	123.9	96.1	72.1
5°	341.4	317.4	294.6	266.8	239.0	213.7	184.6	155.5	125.2	97.4	72.1
2.5°	342.6	318.6	295.9	268.0	240.2	213.7	184.6	155.5	125.2	97.4	72.1
0°	342.6	318.6	295.9	268.0	240.2	213.7	184.6	155.5	125.2	97.4	72.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	0.0	0.0
85°	3.8	2.5	1.3	0.0
82.5°	5.1	3.8	1.3	0.0
80°	7.6	5.1	2.5	0.0
77.5°	8.9	6.3	2.5	0.0
75°	11.4	7.6	3.8	0.0
72.5°	12.6	8.9	3.8	0.0
70°	13.9	10.1	5.1	0.0
67.5°	16.4	10.1	5.1	0.0
65°	19.0	11.4	6.3	0.0
62.5°	20.2	12.6	6.3	0.0
60°	22.8	13.9	6.3	0.0
57.5°	25.3	15.2	7.6	0.0
55°	26.6	16.4	7.6	0.0
52.5°	29.1	17.7	8.9	0.0
50°	30.3	19.0	8.9	0.0
47.5°	31.6	20.2	8.9	0.0
45°	34.1	21.5	10.1	0.0
42.5°	35.4	22.8	10.1	0.0
40°	36.7	22.8	10.1	0.0
37.5°	39.2	24.0	11.4	0.0
35°	40.5	25.3	11.4	0.0
32.5°	41.7	26.6	11.4	0.0
30°	43.0	26.6	12.6	0.0
27.5°	44.3	27.8	12.6	0.0
25°	45.5	27.8	12.6	0.0
22.5°	46.8	29.1	12.6	0.0
20°	46.8	29.1	12.6	0.0
17.5°	48.0	30.3	12.6	0.0
15°	48.0	30.3	13.9	0.0
12.5°	49.3	30.3	13.9	0.0
10°	49.3	31.6	13.9	0.0
7.5°	50.6	31.6	13.9	0.0
5°	50.6	31.6	13.9	0.0
2.5°	50.6	31.6	13.9	0.0
0°	50.6	31.6	13.9	0.0

(END OF REPORT)