

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: P623304

Luminaire Tested: **IFLD-M-SA4A-722-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623304
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	14124.5 lumens	Max Intensity:	45672.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

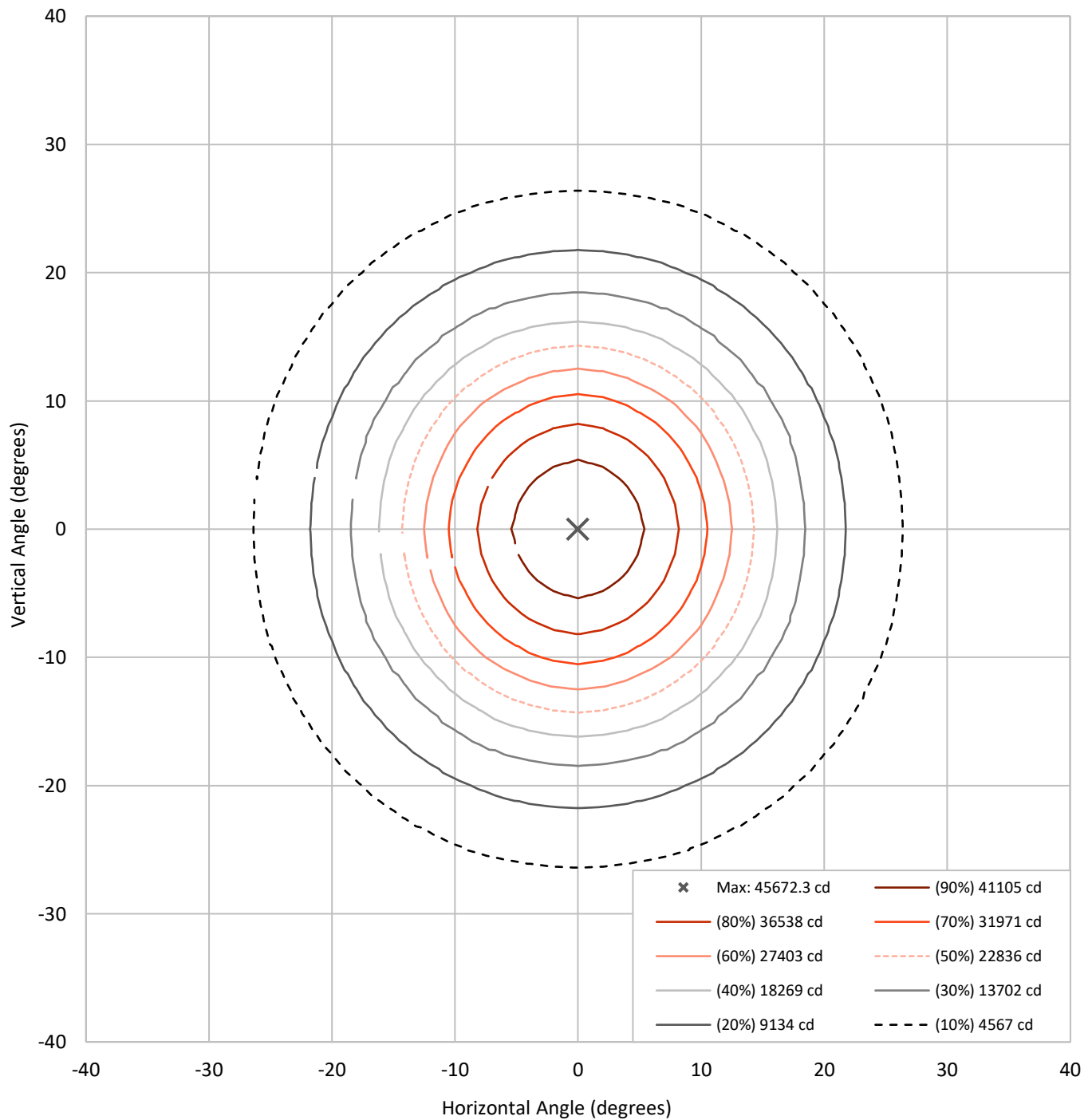
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	5096.4 lumens	Field Lumens:	8606 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 128.6
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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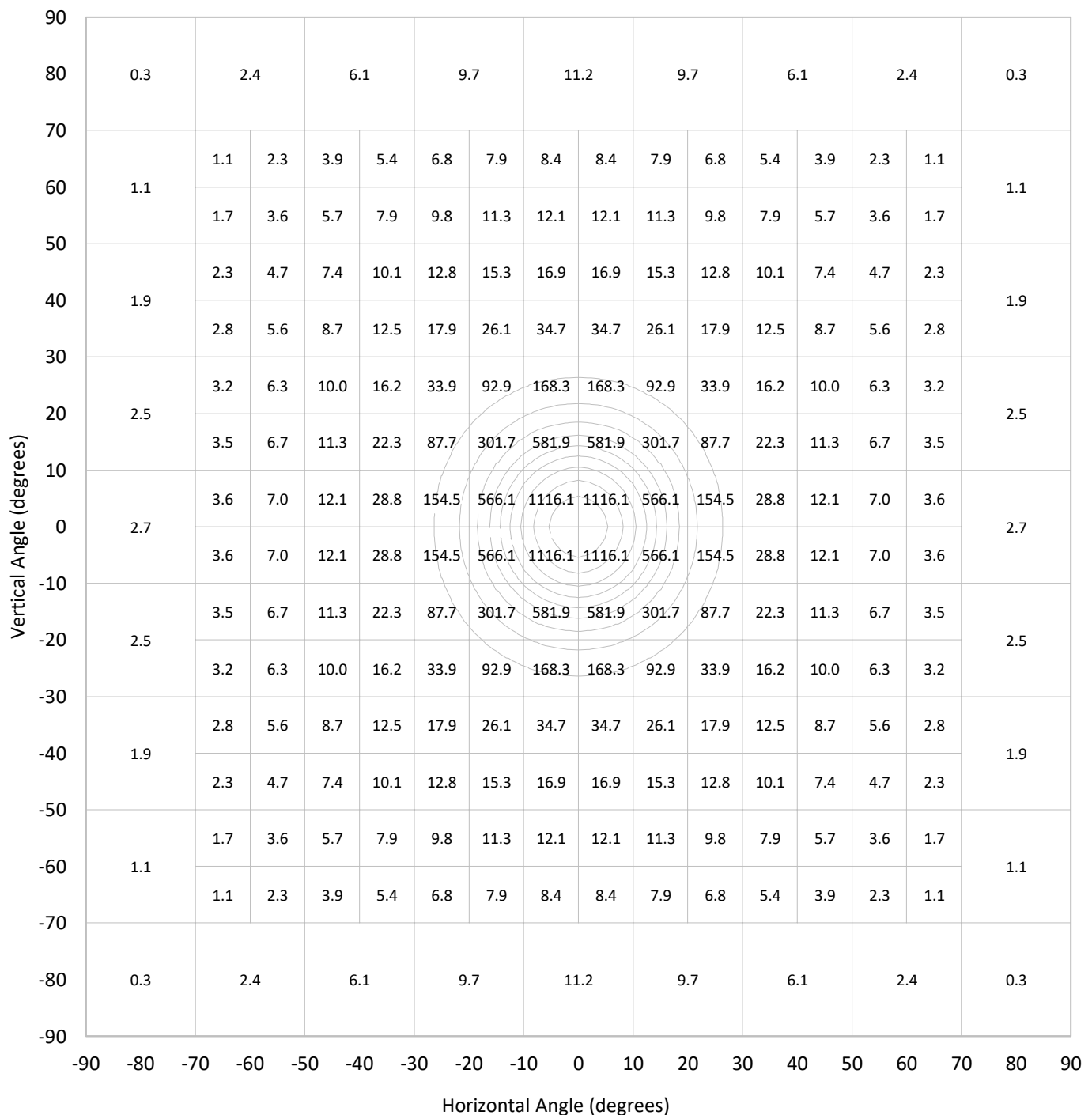
Iso-Candela Plot



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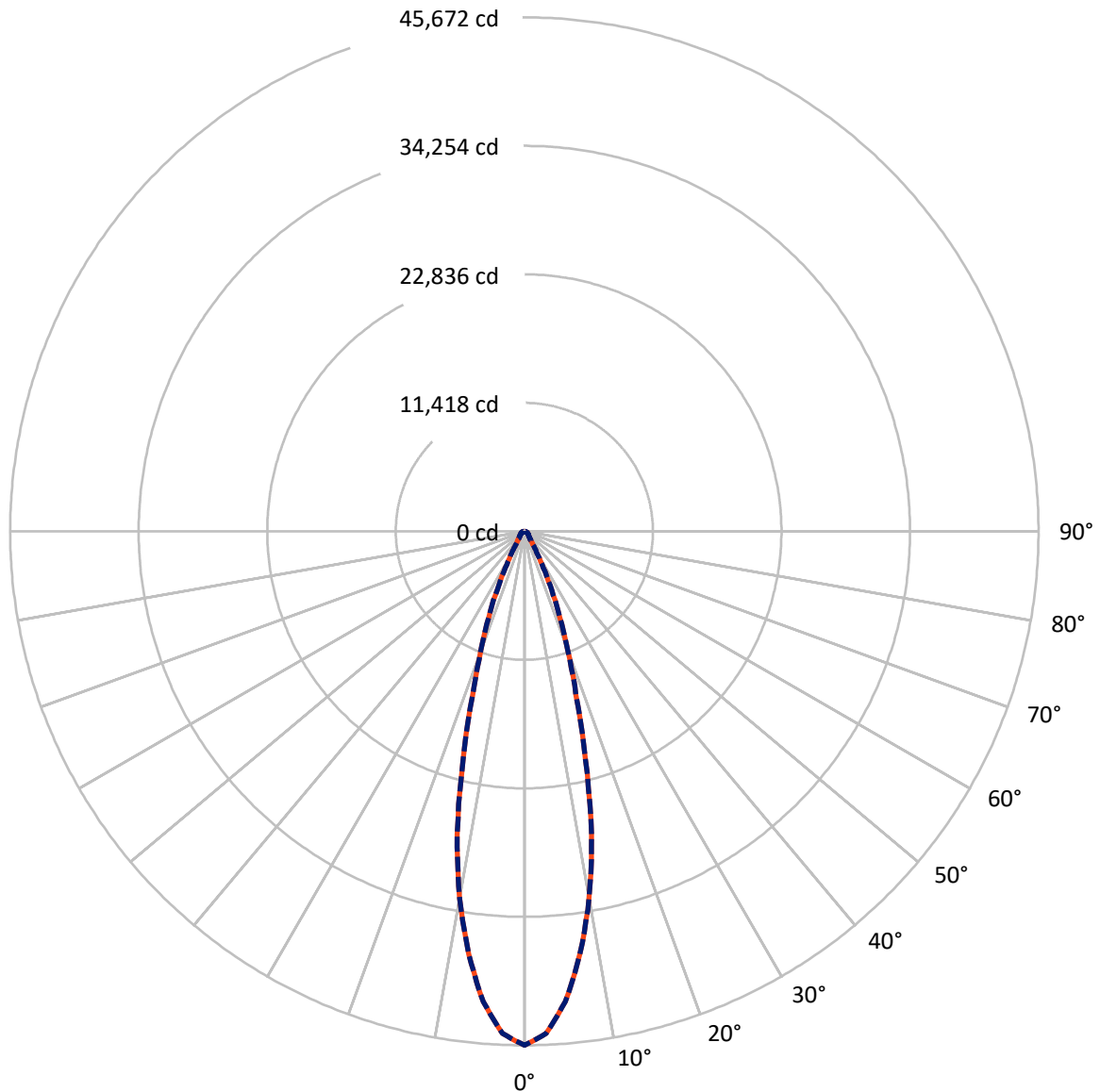
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Lumen Table



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Luminous Intensity Polar Plot

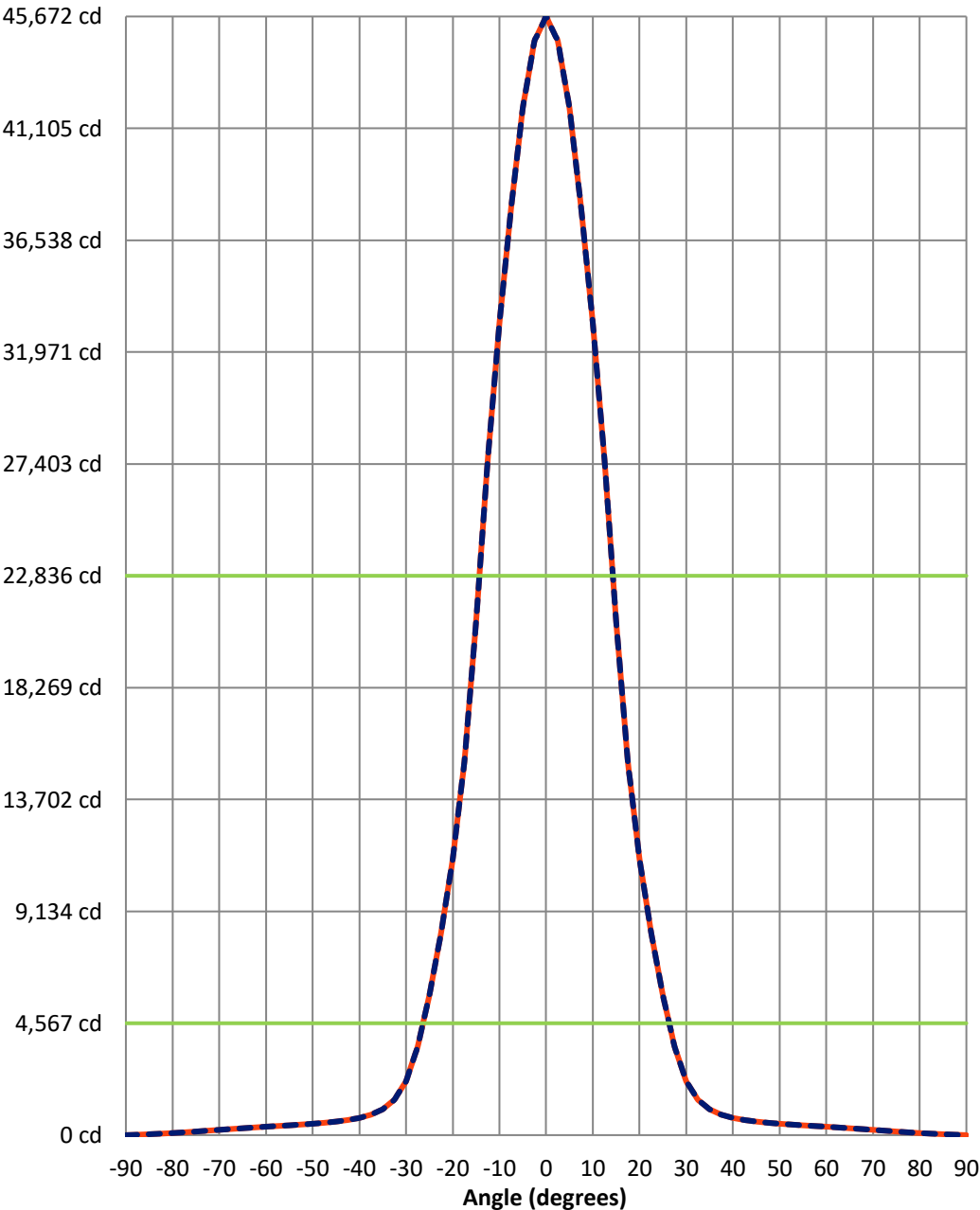


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 5096.4
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 8606
Efficiency: 60.9%

Spill:
Lumens: 5518.6
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°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	14.7	14.7	14.7	14.7
85°	36.8	36.8	36.8	36.8	36.8	35.3	35.3	35.3	33.9	33.9	32.4
82.5°	58.9	58.9	58.9	58.9	57.4	57.4	56.0	56.0	54.5	54.5	53.0
80°	83.9	83.9	83.9	83.9	82.5	81.0	81.0	79.5	78.0	76.6	75.1
77.5°	113.4	113.4	113.4	111.9	110.4	110.4	109.0	106.0	104.6	101.6	100.1
75°	145.8	145.8	145.8	144.3	142.8	141.4	138.4	137.0	134.0	131.1	126.6
72.5°	181.1	181.1	181.1	179.7	176.7	175.2	172.3	169.4	166.4	162.0	157.6
70°	215.0	215.0	215.0	212.1	210.6	207.6	204.7	201.8	197.3	192.9	188.5
67.5°	248.9	248.9	248.9	245.9	244.5	241.5	238.6	234.1	229.7	223.8	219.4
65°	279.8	279.8	278.3	276.9	275.4	272.4	268.0	265.1	260.7	254.8	248.9
62.5°	312.2	312.2	310.7	309.3	306.3	303.4	298.9	294.5	288.6	282.7	276.9
60°	344.6	344.6	343.1	341.7	338.7	334.3	329.9	325.5	319.6	312.2	304.8
57.5°	371.1	371.1	369.6	368.2	365.2	362.3	357.9	353.4	347.5	341.7	332.8
55°	399.1	399.1	397.6	394.7	391.7	388.8	384.4	378.5	372.6	365.2	359.3
52.5°	431.5	431.5	430.0	427.1	422.6	418.2	412.3	405.0	397.6	390.2	381.4
50°	463.9	463.9	460.9	458.0	455.0	449.2	443.3	435.9	427.1	418.2	407.9
47.5°	503.6	503.6	500.7	496.3	490.4	484.5	475.7	465.4	456.5	446.2	434.4
45°	552.2	552.2	547.8	543.4	536.0	525.7	515.4	503.6	490.4	477.1	462.4
42.5°	615.6	615.6	609.7	602.3	592.0	578.7	562.5	546.3	530.1	512.5	494.8
40°	701.0	701.0	692.1	681.8	665.6	646.5	622.9	600.8	578.7	553.7	531.6
37.5°	835.0	835.0	820.3	801.1	774.6	742.2	702.4	673.0	639.1	606.7	577.3
35°	1054.4	1054.4	1027.9	994.0	946.9	888.0	824.7	774.6	718.6	673.0	630.3
32.5°	1444.7	1444.7	1391.6	1325.4	1235.5	1120.7	1014.6	926.3	835.0	764.3	696.6
30°	2200.1	2200.1	2086.7	1946.8	1753.9	1512.4	1331.3	1161.9	1007.3	890.9	792.3
27.5°	3618.3	3559.4	3382.6	3092.5	2694.9	2200.1	1885.0	1527.1	1282.7	1060.3	923.3
25°	5712.4	5615.2	5323.6	4847.9	4200.0	3465.1	2821.6	2142.7	1714.1	1344.5	1089.8
22.5°	8257.1	8123.1	7726.9	7080.4	6204.2	5226.4	4185.2	3208.9	2340.0	1777.5	1344.5
20°	11270.1	11090.4	10558.8	9695.8	8535.4	7291.0	5900.8	4593.1	3339.9	2340.0	1714.1
17.5°	15247.7	14973.8	14168.2	12872.3	11270.1	9592.7	7855.0	6167.4	4593.1	3208.9	2142.7
15°	20965.9	20503.5	19151.6	17004.5	14509.9	12171.3	9955.0	7855.0	5900.8	4185.2	2821.6
12.5°	27576.6	26933.0	25070.1	22164.6	18774.6	15076.8	12171.3	9592.7	7291.0	5226.4	3465.1
10°	33146.1	32467.2	30542.5	27628.1	23329.5	18774.6	14509.9	11270.1	8535.4	6204.2	4200.0
7.5°	37851.1	37091.3	35016.3	31828.1	27628.1	22164.6	17004.5	12872.3	9695.8	7080.4	4847.9
5°	41937.7	40974.6	38559.5	35016.3	30542.5	25070.1	19151.6	14168.2	10558.8	7726.9	5323.6
2.5°	44668.0	43537.0	40974.6	37091.3	32467.2	26933.0	20503.5	14973.8	11090.4	8123.1	5615.2
0°	45672.3	44668.0	41937.7	37851.1	33146.1	27576.6	20965.9	15247.7	11270.1	8257.1	5712.4

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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°	14.7	14.7	13.3	13.3	13.3	11.8	11.8	11.8	10.3	10.3	10.3
85°	32.4	30.9	30.9	29.5	28.0	26.5	26.5	25.0	23.6	22.1	20.6
82.5°	51.5	50.1	48.6	47.1	45.7	42.7	41.2	39.8	36.8	35.3	33.9
80°	72.2	70.7	67.7	66.3	63.3	60.4	57.4	54.5	51.5	48.6	45.7
77.5°	97.2	92.8	89.8	86.9	82.5	79.5	75.1	72.2	67.7	63.3	58.9
75°	123.7	119.3	114.9	110.4	106.0	100.1	95.7	89.8	85.4	79.5	75.1
72.5°	153.2	147.3	141.4	135.5	129.6	123.7	117.8	110.4	104.6	97.2	89.8
70°	182.6	176.7	170.8	163.5	156.1	148.7	141.4	132.5	125.2	116.3	107.5
67.5°	213.5	206.2	198.8	191.4	184.1	175.2	164.9	156.1	145.8	135.5	126.6
65°	243.0	235.6	226.8	218.0	209.1	200.3	190.0	179.7	167.9	156.1	145.8
62.5°	269.5	262.1	254.8	244.5	235.6	225.3	215.0	201.8	190.0	178.2	164.9
60°	297.5	288.6	279.8	269.5	259.2	248.9	237.1	223.8	212.1	197.3	184.1
57.5°	324.0	315.1	304.8	294.5	282.7	271.0	259.2	245.9	232.7	218.0	203.2
55°	350.5	341.7	331.3	319.6	306.3	293.1	279.8	266.5	253.3	237.1	220.9
52.5°	372.6	363.7	353.4	344.6	329.9	316.6	301.9	285.7	271.0	254.8	238.6
50°	396.1	385.8	374.0	363.7	352.0	338.7	322.5	306.3	288.6	272.4	254.8
47.5°	422.6	409.4	396.1	382.9	371.1	356.4	343.1	325.5	307.8	288.6	271.0
45°	449.2	434.4	419.7	403.5	388.8	374.0	359.3	344.6	325.5	306.3	285.7
42.5°	477.1	459.5	443.3	427.1	409.4	391.7	375.5	359.3	343.1	322.5	301.9
40°	509.5	488.9	468.3	449.2	431.5	410.9	391.7	374.0	356.4	338.7	316.6
37.5°	546.3	521.3	496.3	472.7	450.6	431.5	409.4	388.8	371.1	352.0	329.9
35°	593.5	556.7	527.2	497.8	472.7	449.2	427.1	403.5	382.9	363.7	344.6
32.5°	646.5	600.8	561.1	527.2	496.3	468.3	443.3	419.7	396.1	374.0	353.4
30°	711.3	652.4	600.8	556.7	521.3	488.9	459.5	434.4	409.4	385.8	363.7
27.5°	802.6	711.3	646.5	593.5	546.3	509.5	477.1	449.2	422.6	396.1	372.6
25°	923.3	792.3	696.6	630.3	577.3	531.6	494.8	462.4	434.4	407.9	381.4
22.5°	1060.3	890.9	764.3	673.0	606.7	553.7	512.5	477.1	446.2	418.2	390.2
20°	1282.7	1007.3	835.0	718.6	639.1	578.7	530.1	490.4	456.5	427.1	397.6
17.5°	1527.1	1161.9	926.3	774.6	673.0	600.8	546.3	503.6	465.4	435.9	405.0
15°	1885.0	1331.3	1014.6	824.7	702.4	622.9	562.5	515.4	475.7	443.3	412.3
12.5°	2200.1	1512.4	1120.7	888.0	742.2	646.5	578.7	525.7	484.5	449.2	418.2
10°	2694.9	1753.9	1235.5	946.9	774.6	665.6	592.0	536.0	490.4	455.0	422.6
7.5°	3092.5	1946.8	1325.4	994.0	801.1	681.8	602.3	543.4	496.3	458.0	427.1
5°	3382.6	2086.7	1391.6	1027.9	820.3	692.1	609.7	547.8	500.7	460.9	430.0
2.5°	3559.4	2200.1	1444.7	1054.4	835.0	701.0	615.6	552.2	503.6	463.9	431.5
0°	3618.3	2200.1	1444.7	1054.4	835.0	701.0	615.6	552.2	503.6	463.9	431.5

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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°	8.8	8.8	7.4	7.4	7.4	5.9	5.9	4.4	4.4	2.9	2.9
85°	19.1	17.7	16.2	14.7	13.3	11.8	11.8	10.3	8.8	7.4	5.9
82.5°	30.9	29.5	26.5	23.6	22.1	19.1	16.2	14.7	13.3	10.3	8.8
80°	42.7	39.8	36.8	33.9	30.9	26.5	23.6	20.6	16.2	13.3	11.8
77.5°	56.0	51.5	47.1	42.7	38.3	35.3	30.9	26.5	22.1	17.7	13.3
75°	69.2	63.3	58.9	53.0	48.6	42.7	36.8	32.4	28.0	22.1	16.2
72.5°	83.9	76.6	70.7	63.3	57.4	51.5	44.2	38.3	32.4	26.5	20.6
70°	100.1	91.3	82.5	75.1	67.7	58.9	51.5	44.2	36.8	30.9	23.6
67.5°	116.3	106.0	95.7	85.4	76.6	67.7	58.9	51.5	42.7	35.3	26.5
65°	132.5	120.8	110.4	98.7	86.9	76.6	67.7	57.4	48.6	38.3	30.9
62.5°	150.2	137.0	123.7	110.4	98.7	85.4	75.1	63.3	53.0	42.7	33.9
60°	169.4	154.6	138.4	123.7	110.4	95.7	82.5	70.7	58.9	47.1	36.8
57.5°	187.0	170.8	154.6	137.0	120.8	106.0	91.3	76.6	63.3	51.5	39.8
55°	204.7	187.0	169.4	150.2	132.5	116.3	100.1	83.9	69.2	56.0	42.7
52.5°	220.9	203.2	184.1	164.9	145.8	126.6	107.5	89.8	75.1	58.9	45.7
50°	237.1	218.0	197.3	178.2	156.1	135.5	116.3	97.2	79.5	63.3	48.6
47.5°	253.3	232.7	212.1	190.0	167.9	145.8	125.2	104.6	85.4	67.7	51.5
45°	266.5	245.9	223.8	201.8	179.7	156.1	132.5	110.4	89.8	72.2	54.5
42.5°	279.8	259.2	237.1	215.0	190.0	164.9	141.4	117.8	95.7	75.1	57.4
40°	293.1	271.0	248.9	225.3	200.3	175.2	148.7	123.7	100.1	79.5	60.4
37.5°	306.3	282.7	259.2	235.6	209.1	184.1	156.1	129.6	106.0	82.5	63.3
35°	319.6	294.5	269.5	244.5	218.0	191.4	163.5	135.5	110.4	86.9	66.3
32.5°	331.3	304.8	279.8	254.8	226.8	198.8	170.8	141.4	114.9	89.8	67.7
30°	341.7	315.1	288.6	262.1	235.6	206.2	176.7	147.3	119.3	92.8	70.7
27.5°	350.5	324.0	297.5	269.5	243.0	213.5	182.6	153.2	123.7	97.2	72.2
25°	359.3	332.8	304.8	276.9	248.9	219.4	188.5	157.6	126.6	100.1	75.1
22.5°	365.2	341.7	312.2	282.7	254.8	223.8	192.9	162.0	131.1	101.6	76.6
20°	372.6	347.5	319.6	288.6	260.7	229.7	197.3	166.4	134.0	104.6	78.0
17.5°	378.5	353.4	325.5	294.5	265.1	234.1	201.8	169.4	137.0	106.0	79.5
15°	384.4	357.9	329.9	298.9	268.0	238.6	204.7	172.3	138.4	109.0	81.0
12.5°	388.8	362.3	334.3	303.4	272.4	241.5	207.6	175.2	141.4	110.4	81.0
10°	391.7	365.2	338.7	306.3	275.4	244.5	210.6	176.7	142.8	110.4	82.5
7.5°	394.7	368.2	341.7	309.3	276.9	245.9	212.1	179.7	144.3	111.9	83.9
5°	397.6	369.6	343.1	310.7	278.3	248.9	215.0	181.1	145.8	113.4	83.9
2.5°	399.1	371.1	344.6	312.2	279.8	248.9	215.0	181.1	145.8	113.4	83.9
0°	399.1	371.1	344.6	312.2	279.8	248.9	215.0	181.1	145.8	113.4	83.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
85°	4.4	2.9	1.5	0.0
82.5°	5.9	4.4	1.5	0.0
80°	8.8	5.9	2.9	0.0
77.5°	10.3	7.4	2.9	0.0
75°	13.3	8.8	4.4	0.0
72.5°	14.7	10.3	4.4	0.0
70°	16.2	11.8	5.9	0.0
67.5°	19.1	11.8	5.9	0.0
65°	22.1	13.3	7.4	0.0
62.5°	23.6	14.7	7.4	0.0
60°	26.5	16.2	7.4	0.0
57.5°	29.5	17.7	8.8	0.0
55°	30.9	19.1	8.8	0.0
52.5°	33.9	20.6	10.3	0.0
50°	35.3	22.1	10.3	0.0
47.5°	36.8	23.6	10.3	0.0
45°	39.8	25.0	11.8	0.0
42.5°	41.2	26.5	11.8	0.0
40°	42.7	26.5	11.8	0.0
37.5°	45.7	28.0	13.3	0.0
35°	47.1	29.5	13.3	0.0
32.5°	48.6	30.9	13.3	0.0
30°	50.1	30.9	14.7	0.0
27.5°	51.5	32.4	14.7	0.0
25°	53.0	32.4	14.7	0.0
22.5°	54.5	33.9	14.7	0.0
20°	54.5	33.9	14.7	0.0
17.5°	56.0	35.3	14.7	0.0
15°	56.0	35.3	16.2	0.0
12.5°	57.4	35.3	16.2	0.0
10°	57.4	36.8	16.2	0.0
7.5°	58.9	36.8	16.2	0.0
5°	58.9	36.8	16.2	0.0
2.5°	58.9	36.8	16.2	0.0
0°	58.9	36.8	16.2	0.0

(END OF REPORT)