

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: P623468

Luminaire Tested: **IFLD-S-SA3A-760-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623468
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-760-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	14613.1 lumens	Max Intensity:	47252.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

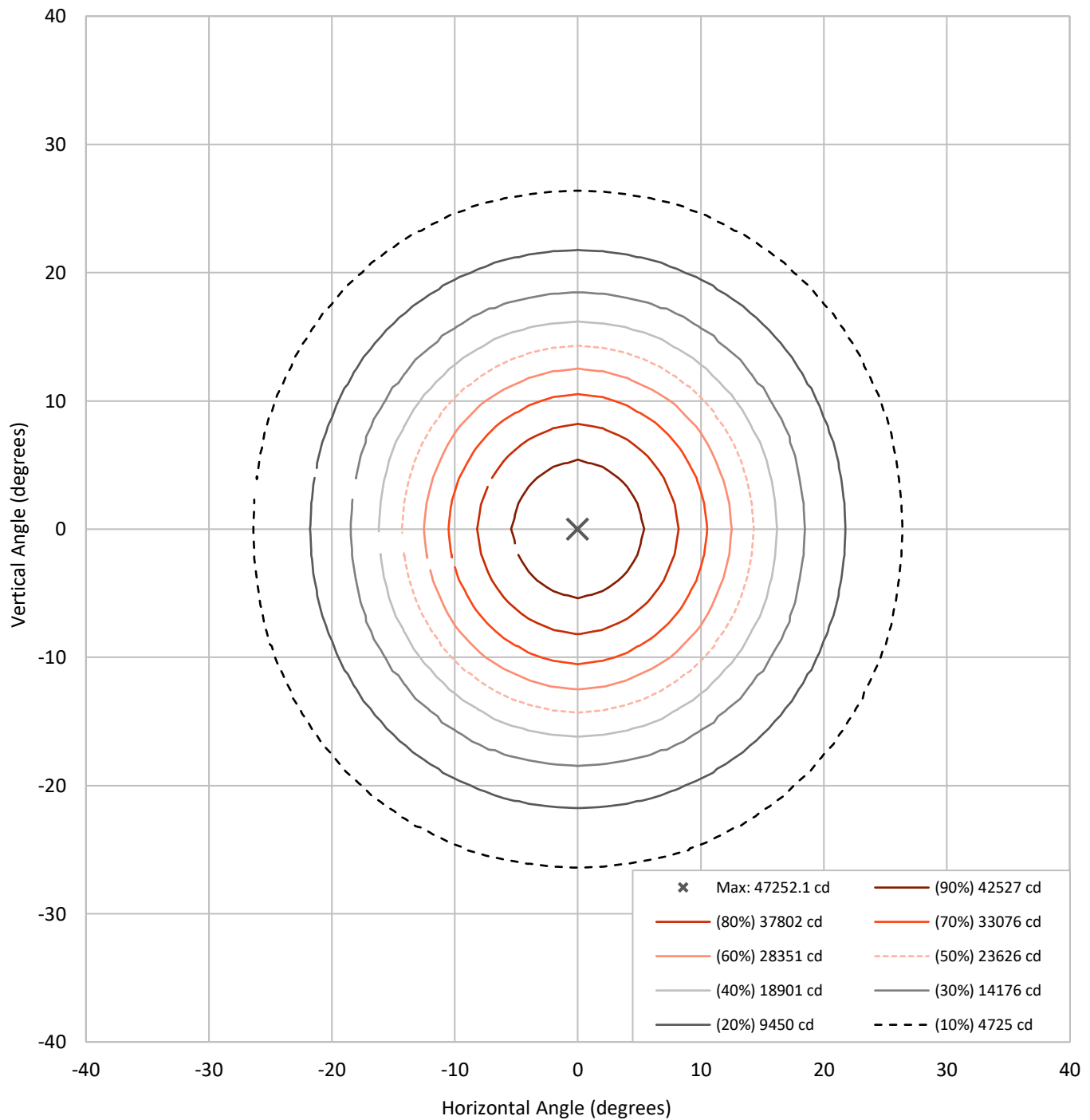
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	5272.7 lumens	Field Lumens:	8903.6 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 94.8
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



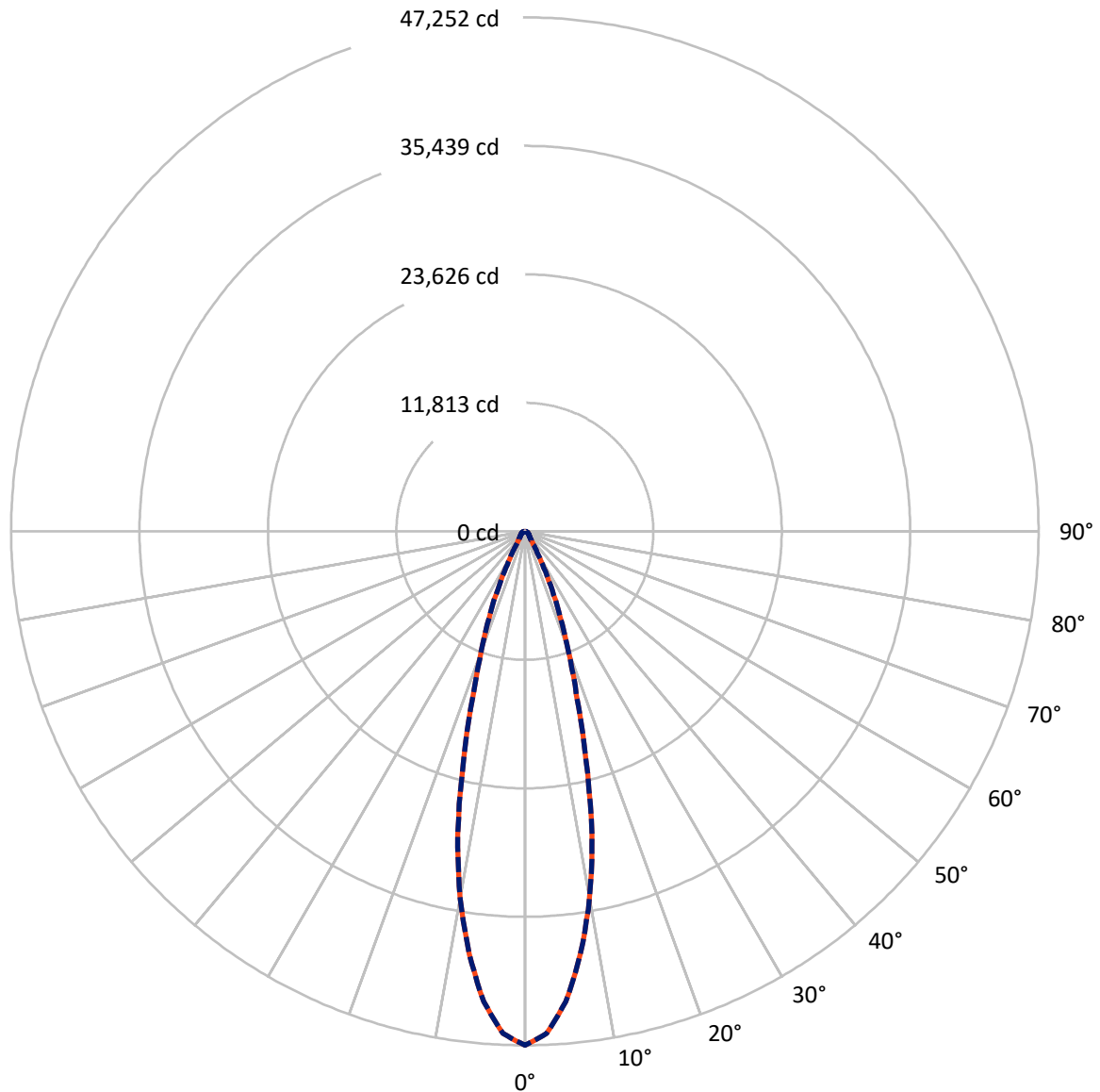
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Iso-Candela Plot



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Luminous Intensity Polar Plot

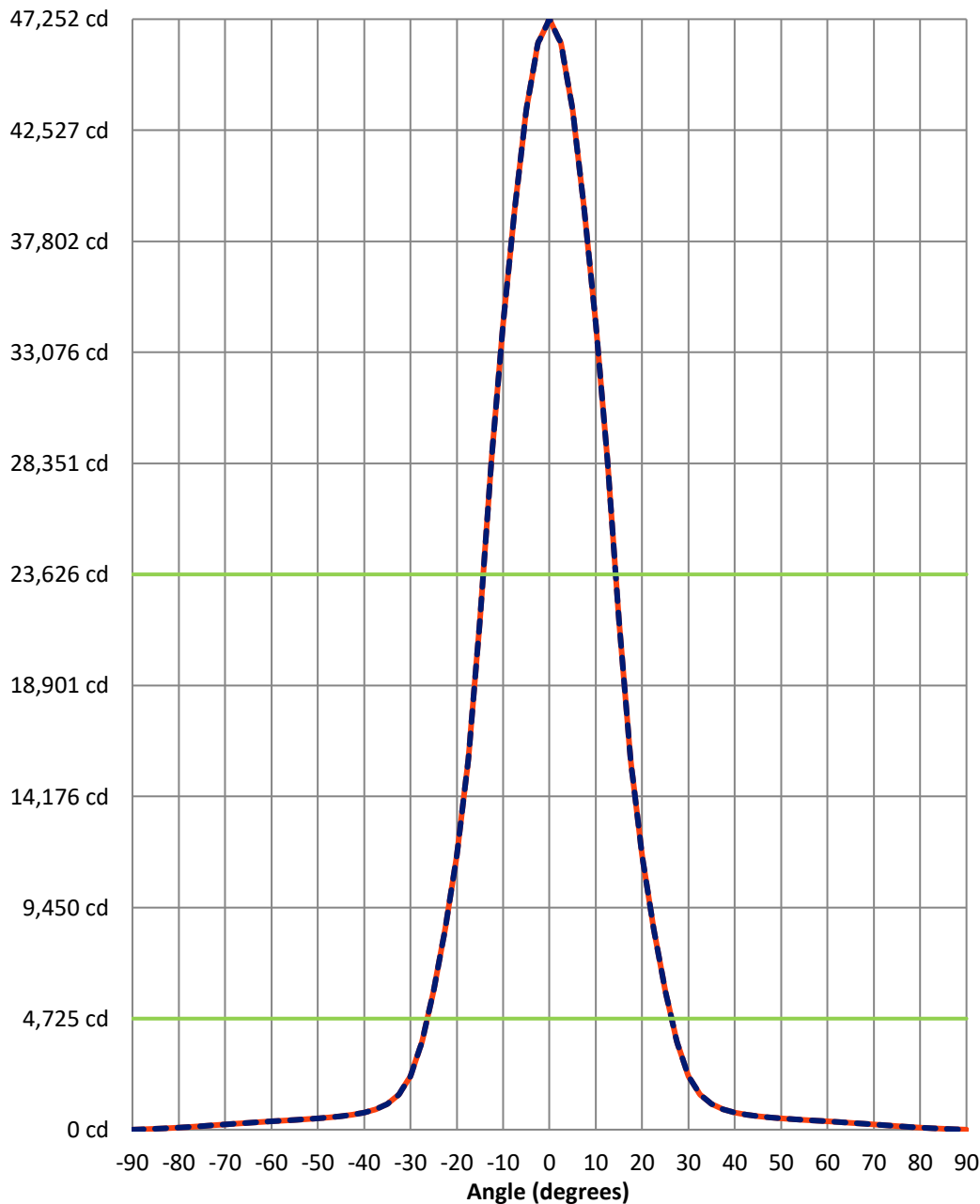


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 5272.7
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 8903.6
Efficiency: 60.9%

Spill:

Lumens: 5709.5
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°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	15.2	15.2	15.2	15.2
85°	38.1	38.1	38.1	38.1	38.1	36.6	36.6	36.6	35.0	35.0	33.5
82.5°	60.9	60.9	60.9	60.9	59.4	59.4	57.9	57.9	56.4	56.4	54.8
80°	86.8	86.8	86.8	86.8	85.3	83.8	83.8	82.3	80.7	79.2	77.7
77.5°	117.3	117.3	117.3	115.8	114.3	114.3	112.7	109.7	108.2	105.1	103.6
75°	150.8	150.8	150.8	149.3	147.8	146.3	143.2	141.7	138.6	135.6	131.0
72.5°	187.4	187.4	187.4	185.9	182.8	181.3	178.3	175.2	172.2	167.6	163.0
70°	222.4	222.4	222.4	219.4	217.9	214.8	211.8	208.7	204.2	199.6	195.0
67.5°	257.5	257.5	257.5	254.4	252.9	249.9	246.8	242.2	237.7	231.6	227.0
65°	289.5	289.5	288.0	286.4	284.9	281.9	277.3	274.2	269.7	263.6	257.5
62.5°	323.0	323.0	321.5	320.0	316.9	313.9	309.3	304.7	298.6	292.5	286.4
60°	356.5	356.5	355.0	353.5	350.4	345.9	341.3	336.7	330.6	323.0	315.4
57.5°	383.9	383.9	382.4	380.9	377.8	374.8	370.2	365.7	359.6	353.5	344.3
55°	412.9	412.9	411.4	408.3	405.3	402.2	397.7	391.6	385.5	377.8	371.8
52.5°	446.4	446.4	444.9	441.8	437.3	432.7	426.6	419.0	411.4	403.7	394.6
50°	479.9	479.9	476.9	473.8	470.8	464.7	458.6	451.0	441.8	432.7	422.0
47.5°	521.1	521.1	518.0	513.4	507.4	501.3	492.1	481.4	472.3	461.6	449.5
45°	571.3	571.3	566.8	562.2	554.6	543.9	533.3	521.1	507.4	493.6	478.4
42.5°	636.9	636.9	630.8	623.1	612.5	598.8	582.0	565.2	548.5	530.2	511.9
40°	725.2	725.2	716.1	705.4	688.7	668.8	644.5	621.6	598.8	572.9	550.0
37.5°	863.9	863.9	848.6	828.8	801.4	767.9	726.7	696.3	661.2	627.7	597.2
35°	1090.9	1090.9	1063.5	1028.4	979.7	918.7	853.2	801.4	743.5	696.3	652.1
32.5°	1494.6	1494.6	1439.8	1371.2	1278.3	1159.4	1049.7	958.3	863.9	790.7	720.7
30°	2276.2	2276.2	2158.9	2014.2	1814.6	1564.7	1377.3	1202.1	1042.1	921.8	819.7
27.5°	3743.4	3682.5	3499.6	3199.5	2788.1	2276.2	1950.2	1579.9	1327.0	1097.0	955.3
25°	5909.9	5809.4	5507.7	5015.6	4345.2	3585.0	2919.2	2216.8	1773.4	1391.0	1127.4
22.5°	8542.7	8404.0	7994.2	7325.3	6418.8	5407.2	4330.0	3319.9	2421.0	1839.0	1391.0
20°	11659.9	11474.0	10924.0	10031.2	8830.6	7543.2	6105.0	4752.0	3455.5	2421.0	1773.4
17.5°	15775.1	15491.7	14658.3	13317.6	11659.9	9924.6	8126.7	6380.7	4752.0	3319.9	2216.8
15°	21691.1	21212.7	19814.1	17592.7	15011.8	12592.3	10299.4	8126.7	6105.0	4330.0	2919.2
12.5°	28530.4	27864.6	25937.3	22931.3	19424.0	15598.4	12592.3	9924.6	7543.2	5407.2	3585.0
10°	34292.6	33590.2	31598.9	28583.8	24136.5	19424.0	15011.8	11659.9	8830.6	6418.8	4345.2
7.5°	39160.4	38374.3	36227.5	32929.0	28583.8	22931.3	17592.7	13317.6	10031.2	7325.3	5015.6
5°	43388.3	42391.9	39893.3	36227.5	31598.9	25937.3	19814.1	14658.3	10924.0	7994.2	5507.7
2.5°	46213.1	45042.9	42391.9	38374.3	33590.2	27864.6	21212.7	15491.7	11474.0	8404.0	5809.4
0°	47252.1	46213.1	43388.3	39160.4	34292.6	28530.4	21691.1	15775.1	11659.9	8542.7	5909.9

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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°	15.2	15.2	13.7	13.7	13.7	12.2	12.2	12.2	10.7	10.7	10.7
85°	33.5	32.0	32.0	30.5	28.9	27.4	27.4	25.9	24.4	22.9	21.3
82.5°	53.3	51.8	50.3	48.8	47.2	44.2	42.7	41.1	38.1	36.6	35.0
80°	74.7	73.1	70.1	68.6	65.5	62.5	59.4	56.4	53.3	50.3	47.2
77.5°	100.6	96.0	92.9	89.9	85.3	82.3	77.7	74.7	70.1	65.5	60.9
75°	128.0	123.4	118.8	114.3	109.7	103.6	99.0	92.9	88.4	82.3	77.7
72.5°	158.5	152.4	146.3	140.2	134.1	128.0	121.9	114.3	108.2	100.6	92.9
70°	188.9	182.8	176.7	169.1	161.5	153.9	146.3	137.1	129.5	120.4	111.2
67.5°	220.9	213.3	205.7	198.1	190.4	181.3	170.6	161.5	150.8	140.2	131.0
65°	251.4	243.8	234.6	225.5	216.3	207.2	196.5	185.9	173.7	161.5	150.8
62.5°	278.8	271.2	263.6	252.9	243.8	233.1	222.4	208.7	196.5	184.4	170.6
60°	307.8	298.6	289.5	278.8	268.1	257.5	245.3	231.6	219.4	204.2	190.4
57.5°	335.2	326.0	315.4	304.7	292.5	280.3	268.1	254.4	240.7	225.5	210.3
55°	362.6	353.5	342.8	330.6	316.9	303.2	289.5	275.8	262.1	245.3	228.5
52.5°	385.5	376.3	365.7	356.5	341.3	327.6	312.3	295.6	280.3	263.6	246.8
50°	409.8	399.2	387.0	376.3	364.1	350.4	333.7	316.9	298.6	281.9	263.6
47.5°	437.3	423.6	409.8	396.1	383.9	368.7	355.0	336.7	318.4	298.6	280.3
45°	464.7	449.5	434.2	417.5	402.2	387.0	371.8	356.5	336.7	316.9	295.6
42.5°	493.6	475.4	458.6	441.8	423.6	405.3	388.5	371.8	355.0	333.7	312.3
40°	527.2	505.8	484.5	464.7	446.4	425.1	405.3	387.0	368.7	350.4	327.6
37.5°	565.2	539.3	513.4	489.1	466.2	446.4	423.6	402.2	383.9	364.1	341.3
35°	614.0	575.9	545.4	515.0	489.1	464.7	441.8	417.5	396.1	376.3	356.5
32.5°	668.8	621.6	580.5	545.4	513.4	484.5	458.6	434.2	409.8	387.0	365.7
30°	735.9	674.9	621.6	575.9	539.3	505.8	475.4	449.5	423.6	399.2	376.3
27.5°	830.3	735.9	668.8	614.0	565.2	527.2	493.6	464.7	437.3	409.8	385.5
25°	955.3	819.7	720.7	652.1	597.2	550.0	511.9	478.4	449.5	422.0	394.6
22.5°	1097.0	921.8	790.7	696.3	627.7	572.9	530.2	493.6	461.6	432.7	403.7
20°	1327.0	1042.1	863.9	743.5	661.2	598.8	548.5	507.4	472.3	441.8	411.4
17.5°	1579.9	1202.1	958.3	801.4	696.3	621.6	565.2	521.1	481.4	451.0	419.0
15°	1950.2	1377.3	1049.7	853.2	726.7	644.5	582.0	533.3	492.1	458.6	426.6
12.5°	2276.2	1564.7	1159.4	918.7	767.9	668.8	598.8	543.9	501.3	464.7	432.7
10°	2788.1	1814.6	1278.3	979.7	801.4	688.7	612.5	554.6	507.4	470.8	437.3
7.5°	3199.5	2014.2	1371.2	1028.4	828.8	705.4	623.1	562.2	513.4	473.8	441.8
5°	3499.6	2158.9	1439.8	1063.5	848.6	716.1	630.8	566.8	518.0	476.9	444.9
2.5°	3682.5	2276.2	1494.6	1090.9	863.9	725.2	636.9	571.3	521.1	479.9	446.4
0°	3743.4	2276.2	1494.6	1090.9	863.9	725.2	636.9	571.3	521.1	479.9	446.4

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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°	9.1	9.1	7.6	7.6	7.6	6.1	6.1	4.6	4.6	3.0	3.0
85°	19.8	18.3	16.8	15.2	13.7	12.2	12.2	10.7	9.1	7.6	6.1
82.5°	32.0	30.5	27.4	24.4	22.9	19.8	16.8	15.2	13.7	10.7	9.1
80°	44.2	41.1	38.1	35.0	32.0	27.4	24.4	21.3	16.8	13.7	12.2
77.5°	57.9	53.3	48.8	44.2	39.6	36.6	32.0	27.4	22.9	18.3	13.7
75°	71.6	65.5	60.9	54.8	50.3	44.2	38.1	33.5	28.9	22.9	16.8
72.5°	86.8	79.2	73.1	65.5	59.4	53.3	45.7	39.6	33.5	27.4	21.3
70°	103.6	94.5	85.3	77.7	70.1	60.9	53.3	45.7	38.1	32.0	24.4
67.5°	120.4	109.7	99.0	88.4	79.2	70.1	60.9	53.3	44.2	36.6	27.4
65°	137.1	124.9	114.3	102.1	89.9	79.2	70.1	59.4	50.3	39.6	32.0
62.5°	155.4	141.7	128.0	114.3	102.1	88.4	77.7	65.5	54.8	44.2	35.0
60°	175.2	160.0	143.2	128.0	114.3	99.0	85.3	73.1	60.9	48.8	38.1
57.5°	193.5	176.7	160.0	141.7	124.9	109.7	94.5	79.2	65.5	53.3	41.1
55°	211.8	193.5	175.2	155.4	137.1	120.4	103.6	86.8	71.6	57.9	44.2
52.5°	228.5	210.3	190.4	170.6	150.8	131.0	111.2	92.9	77.7	60.9	47.2
50°	245.3	225.5	204.2	184.4	161.5	140.2	120.4	100.6	82.3	65.5	50.3
47.5°	262.1	240.7	219.4	196.5	173.7	150.8	129.5	108.2	88.4	70.1	53.3
45°	275.8	254.4	231.6	208.7	185.9	161.5	137.1	114.3	92.9	74.7	56.4
42.5°	289.5	268.1	245.3	222.4	196.5	170.6	146.3	121.9	99.0	77.7	59.4
40°	303.2	280.3	257.5	233.1	207.2	181.3	153.9	128.0	103.6	82.3	62.5
37.5°	316.9	292.5	268.1	243.8	216.3	190.4	161.5	134.1	109.7	85.3	65.5
35°	330.6	304.7	278.8	252.9	225.5	198.1	169.1	140.2	114.3	89.9	68.6
32.5°	342.8	315.4	289.5	263.6	234.6	205.7	176.7	146.3	118.8	92.9	70.1
30°	353.5	326.0	298.6	271.2	243.8	213.3	182.8	152.4	123.4	96.0	73.1
27.5°	362.6	335.2	307.8	278.8	251.4	220.9	188.9	158.5	128.0	100.6	74.7
25°	371.8	344.3	315.4	286.4	257.5	227.0	195.0	163.0	131.0	103.6	77.7
22.5°	377.8	353.5	323.0	292.5	263.6	231.6	199.6	167.6	135.6	105.1	79.2
20°	385.5	359.6	330.6	298.6	269.7	237.7	204.2	172.2	138.6	108.2	80.7
17.5°	391.6	365.7	336.7	304.7	274.2	242.2	208.7	175.2	141.7	109.7	82.3
15°	397.7	370.2	341.3	309.3	277.3	246.8	211.8	178.3	143.2	112.7	83.8
12.5°	402.2	374.8	345.9	313.9	281.9	249.9	214.8	181.3	146.3	114.3	83.8
10°	405.3	377.8	350.4	316.9	284.9	252.9	217.9	182.8	147.8	114.3	85.3
7.5°	408.3	380.9	353.5	320.0	286.4	254.4	219.4	185.9	149.3	115.8	86.8
5°	411.4	382.4	355.0	321.5	288.0	257.5	222.4	187.4	150.8	117.3	86.8
2.5°	412.9	383.9	356.5	323.0	289.5	257.5	222.4	187.4	150.8	117.3	86.8
0°	412.9	383.9	356.5	323.0	289.5	257.5	222.4	187.4	150.8	117.3	86.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
85°	4.6	3.0	1.5	0.0
82.5°	6.1	4.6	1.5	0.0
80°	9.1	6.1	3.0	0.0
77.5°	10.7	7.6	3.0	0.0
75°	13.7	9.1	4.6	0.0
72.5°	15.2	10.7	4.6	0.0
70°	16.8	12.2	6.1	0.0
67.5°	19.8	12.2	6.1	0.0
65°	22.9	13.7	7.6	0.0
62.5°	24.4	15.2	7.6	0.0
60°	27.4	16.8	7.6	0.0
57.5°	30.5	18.3	9.1	0.0
55°	32.0	19.8	9.1	0.0
52.5°	35.0	21.3	10.7	0.0
50°	36.6	22.9	10.7	0.0
47.5°	38.1	24.4	10.7	0.0
45°	41.1	25.9	12.2	0.0
42.5°	42.7	27.4	12.2	0.0
40°	44.2	27.4	12.2	0.0
37.5°	47.2	28.9	13.7	0.0
35°	48.8	30.5	13.7	0.0
32.5°	50.3	32.0	13.7	0.0
30°	51.8	32.0	15.2	0.0
27.5°	53.3	33.5	15.2	0.0
25°	54.8	33.5	15.2	0.0
22.5°	56.4	35.0	15.2	0.0
20°	56.4	35.0	15.2	0.0
17.5°	57.9	36.6	15.2	0.0
15°	57.9	36.6	16.8	0.0
12.5°	59.4	36.6	16.8	0.0
10°	59.4	38.1	16.8	0.0
7.5°	60.9	38.1	16.8	0.0
5°	60.9	38.1	16.8	0.0
2.5°	60.9	38.1	16.8	0.0
0°	60.9	38.1	16.8	0.0

(END OF REPORT)