

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: P623696

Luminaire Tested: **IFLD-S-SA2B-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623696
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-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	12177.7 lumens	Max Intensity:	14881.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	147.8 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

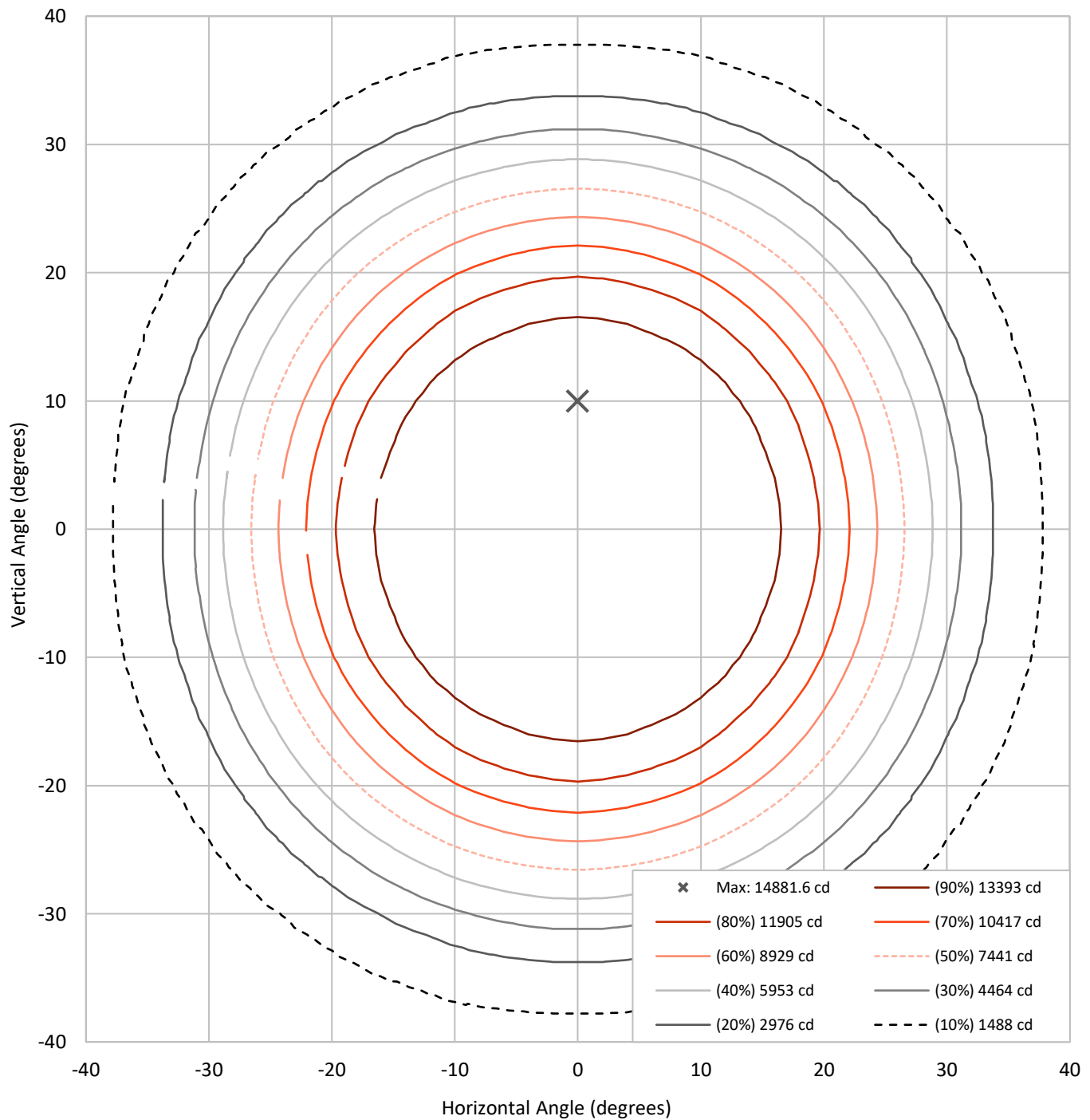
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	6052.6 lumens	Field Lumens:	7871.6 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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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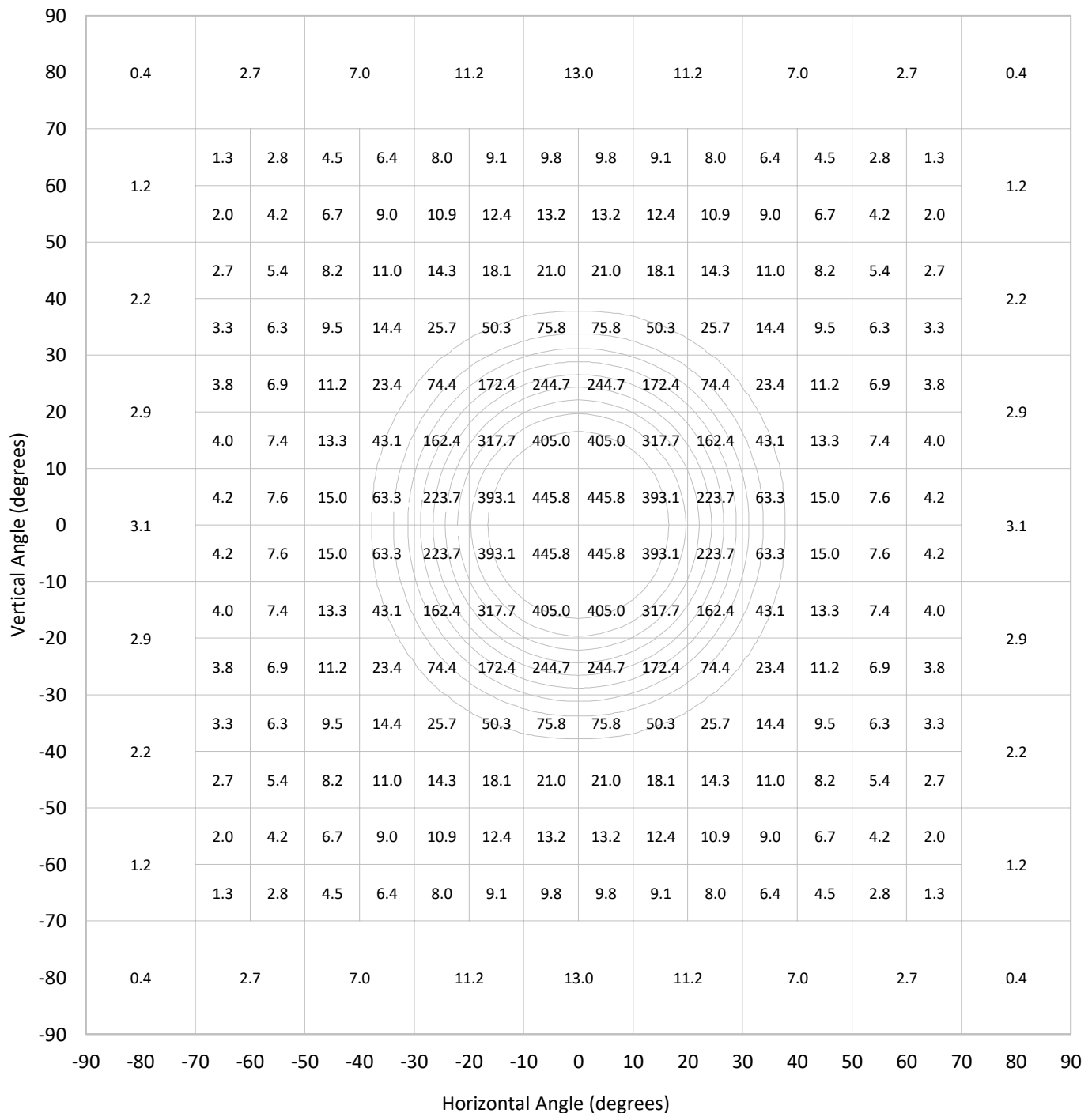
Iso-Candela Plot



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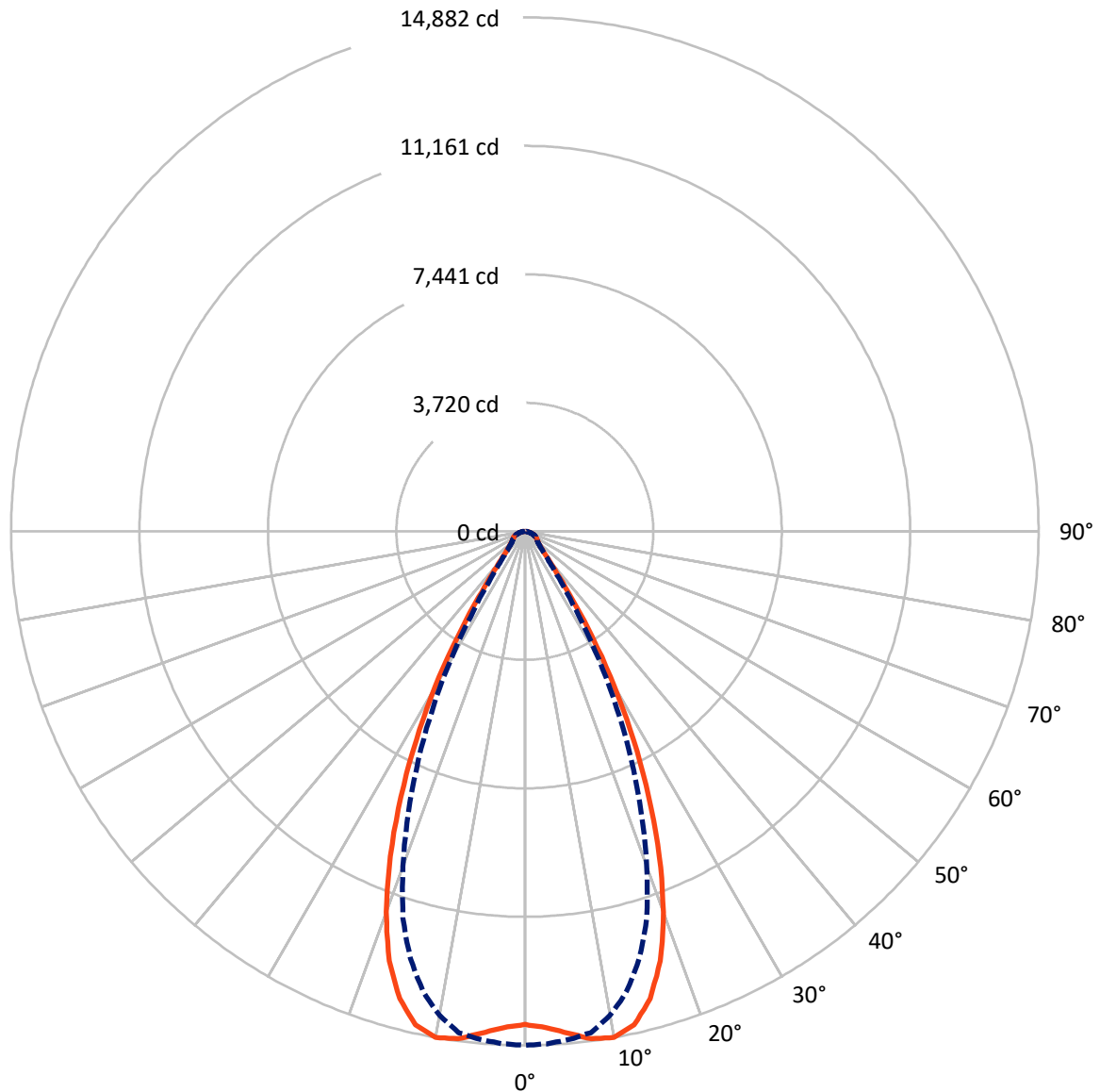
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Lumen Table



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Luminous Intensity Polar Plot

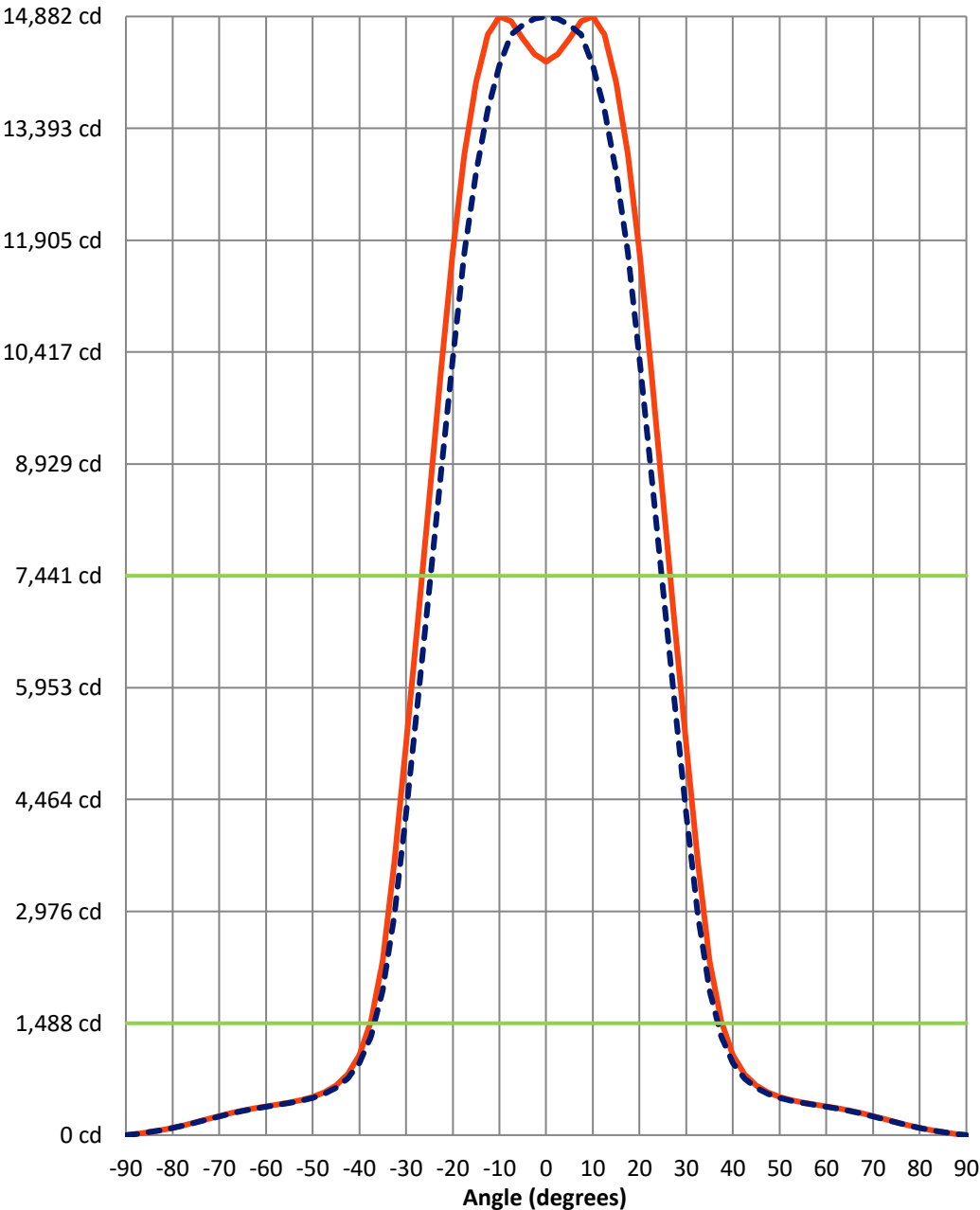


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 6052.6
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 7871.6
Efficiency: 64.6%

Spill:
Lumens: 4306.1
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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	15.2	15.2	15.2	15.2
85°	40.5	40.5	40.5	40.5	40.5	39.2	39.2	38.0	38.0	36.7	35.4
82.5°	65.8	65.8	65.8	65.8	64.5	64.5	63.3	62.0	60.7	59.5	58.2
80°	96.1	96.1	96.1	96.1	94.9	93.6	92.3	91.1	88.6	87.3	84.8
77.5°	131.6	131.6	131.6	130.3	129.0	127.8	125.2	122.7	120.2	117.6	115.1
75°	172.0	172.0	172.0	169.5	168.2	165.7	163.2	160.7	156.9	153.1	149.3
72.5°	213.8	213.8	213.8	211.3	208.7	206.2	203.7	199.9	196.1	191.0	186.0
70°	253.0	253.0	253.0	250.5	247.9	245.4	241.6	237.8	232.8	227.7	222.6
67.5°	293.5	293.5	293.5	289.7	287.2	284.6	280.8	275.8	270.7	264.4	258.1
65°	326.4	326.4	325.1	323.8	321.3	317.5	315.0	309.9	304.9	299.8	293.5
62.5°	356.7	356.7	355.5	354.2	351.7	347.9	344.1	340.3	335.2	328.9	322.6
60°	382.0	382.0	380.8	379.5	377.0	374.4	370.6	366.9	361.8	356.7	350.4
57.5°	407.3	407.3	406.1	404.8	402.3	398.5	394.7	390.9	385.8	379.5	373.2
55°	433.9	433.9	432.6	430.1	427.6	423.8	420.0	414.9	408.6	402.3	395.9
52.5°	465.5	465.5	463.0	460.5	456.7	452.9	446.5	440.2	432.6	425.0	417.5
50°	507.3	507.3	504.7	500.9	494.6	488.3	480.7	470.6	461.7	451.6	441.5
47.5°	569.3	569.3	564.2	557.9	549.0	538.9	525.0	509.8	497.2	484.5	469.3
45°	660.3	660.3	652.7	642.6	628.7	611.0	590.8	569.3	547.8	526.2	504.7
42.5°	808.3	808.3	794.4	776.7	752.7	722.3	684.4	649.0	618.6	584.4	555.3
40°	1063.9	1063.9	1037.3	1004.4	958.9	900.7	831.1	775.5	722.3	662.9	622.4
37.5°	1518.0	1518.0	1466.1	1402.9	1314.3	1203.0	1068.9	979.1	880.4	786.8	718.5
35°	2320.0	2320.0	2220.1	2097.4	1926.6	1711.6	1482.6	1313.1	1124.6	980.4	852.6
32.5°	3635.6	3635.6	3456.0	3234.6	2929.8	2543.9	2177.1	1854.5	1518.0	1278.9	1048.7
30°	5199.2	5199.2	4963.9	4674.2	4277.0	3776.1	3253.6	2680.6	2149.3	1722.9	1375.1
27.5°	6815.9	6748.8	6546.4	6216.3	5763.4	5199.2	4547.7	3807.7	3089.2	2337.7	1840.6
25°	8488.2	8409.8	8178.3	7798.8	7280.1	6641.3	5907.6	5080.3	4193.5	3297.9	2437.7
22.5°	10178.3	10089.7	9826.6	9397.8	8815.9	8099.9	7268.8	6349.1	5358.6	4323.8	3297.9
20°	11740.6	11647.0	11371.2	10924.7	10322.5	9536.9	8613.5	7593.9	6498.4	5358.6	4193.5
17.5°	13048.6	12958.8	12693.1	12266.8	11740.6	10871.5	9911.4	8790.6	7593.9	6349.1	5080.3
15°	14003.7	13926.5	13700.1	13342.1	12805.7	12036.6	11058.7	9911.4	8613.5	7268.8	5907.6
12.5°	14637.5	14575.5	14397.1	14118.8	13638.1	12992.9	12036.6	10871.5	9536.9	8099.9	6641.3
10°	14881.6	14851.3	14767.8	14640.0	14230.1	13638.1	12805.7	11740.6	10322.5	8815.9	7280.1
7.5°	14817.1	14827.2	14856.3	14823.4	14640.0	14118.8	13342.1	12266.8	10924.7	9397.8	7798.8
5°	14586.9	14641.3	14776.6	14856.3	14767.8	14397.1	13700.1	12693.1	11371.2	9826.6	8178.3
2.5°	14381.9	14466.7	14641.3	14827.2	14851.3	14575.5	13926.5	12958.8	11647.0	10089.7	8409.8
0°	14280.7	14381.9	14586.9	14817.1	14881.6	14637.5	14003.7	13048.6	11740.6	10178.3	8488.2

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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	13.9	13.9	13.9	12.7	12.7	12.7	11.4	11.4	10.1	10.1
85°	35.4	34.2	32.9	31.6	30.4	29.1	27.8	26.6	25.3	22.8	21.5
82.5°	56.9	55.7	54.4	51.9	50.6	48.1	45.5	43.0	40.5	39.2	36.7
80°	82.2	79.7	77.2	74.6	70.8	67.0	64.5	60.7	58.2	54.4	51.9
77.5°	111.3	107.5	103.7	98.7	94.9	91.1	86.0	82.2	77.2	72.1	67.0
75°	144.2	139.2	132.8	127.8	122.7	116.4	110.1	103.7	97.4	91.1	84.8
72.5°	179.6	173.3	167.0	160.7	153.1	144.2	136.6	127.8	120.2	112.6	103.7
70°	216.3	208.7	201.1	193.5	184.7	174.6	165.7	155.6	145.5	135.4	125.2
67.5°	250.5	242.9	234.0	226.4	216.3	206.2	194.8	183.4	172.0	159.4	146.7
65°	285.9	277.0	266.9	256.8	246.7	235.3	223.9	212.5	198.6	184.7	172.0
62.5°	315.0	307.4	298.5	288.4	277.0	264.4	253.0	237.8	223.9	210.0	193.5
60°	342.8	334.0	326.4	315.0	304.9	293.5	279.6	264.4	249.2	232.8	217.6
57.5°	366.9	359.3	350.4	340.3	328.9	317.5	304.9	291.0	273.2	256.8	239.1
55°	388.4	379.5	370.6	361.8	351.7	339.0	326.4	312.5	297.3	279.6	260.6
52.5°	409.9	401.0	390.9	382.0	370.6	359.3	346.6	332.7	317.5	301.1	280.8
50°	431.4	421.2	411.1	399.7	388.4	377.0	364.3	351.7	335.2	318.8	301.1
47.5°	456.7	444.0	431.4	418.7	407.3	393.4	380.8	366.9	352.9	335.2	317.5
45°	488.3	469.3	454.1	439.0	425.0	411.1	395.9	382.0	366.9	351.7	332.7
42.5°	527.5	502.2	482.0	461.7	444.0	427.6	412.4	395.9	380.8	364.3	346.6
40°	580.6	546.5	513.6	488.3	465.5	445.3	427.6	411.1	393.4	377.0	359.3
37.5°	650.2	602.1	556.6	519.9	490.8	465.5	444.0	425.0	407.3	388.4	370.6
35°	755.2	671.7	613.5	560.4	519.9	488.3	461.7	439.0	418.7	399.7	382.0
32.5°	903.2	774.2	680.6	613.5	556.6	513.6	482.0	454.1	431.4	411.1	390.9
30°	1098.0	919.7	774.2	671.7	602.1	546.5	502.2	469.3	444.0	421.2	401.0
27.5°	1406.7	1098.0	903.2	755.2	650.2	580.6	527.5	488.3	456.7	431.4	409.9
25°	1840.6	1375.1	1048.7	852.6	718.5	622.4	555.3	504.7	469.3	441.5	417.5
22.5°	2337.7	1722.9	1278.9	980.4	786.8	662.9	584.4	526.2	484.5	451.6	425.0
20°	3089.2	2149.3	1518.0	1124.6	880.4	722.3	618.6	547.8	497.2	461.7	432.6
17.5°	3807.7	2680.6	1854.5	1313.1	979.1	775.5	649.0	569.3	509.8	470.6	440.2
15°	4547.7	3253.6	2177.1	1482.6	1068.9	831.1	684.4	590.8	525.0	480.7	446.5
12.5°	5199.2	3776.1	2543.9	1711.6	1203.0	900.7	722.3	611.0	538.9	488.3	452.9
10°	5763.4	4277.0	2929.8	1926.6	1314.3	958.9	752.7	628.7	549.0	494.6	456.7
7.5°	6216.3	4674.2	3234.6	2097.4	1402.9	1004.4	776.7	642.6	557.9	500.9	460.5
5°	6546.4	4963.9	3456.0	2220.1	1466.1	1037.3	794.4	652.7	564.2	504.7	463.0
2.5°	6748.8	5199.2	3635.6	2320.0	1518.0	1063.9	808.3	660.3	569.3	507.3	465.5
0°	6815.9	5199.2	3635.6	2320.0	1518.0	1063.9	808.3	660.3	569.3	507.3	465.5

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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°	8.9	8.9	7.6	7.6	6.3	6.3	5.1	5.1	3.8	3.8	2.5
85°	20.2	17.7	16.4	15.2	13.9	12.7	11.4	10.1	8.9	7.6	6.3
82.5°	34.2	31.6	27.8	25.3	22.8	20.2	16.4	15.2	12.7	10.1	8.9
80°	48.1	44.3	40.5	36.7	32.9	29.1	25.3	21.5	17.7	13.9	11.4
77.5°	62.0	56.9	53.1	48.1	43.0	38.0	32.9	27.8	22.8	17.7	13.9
75°	78.4	72.1	65.8	59.5	53.1	46.8	41.7	35.4	29.1	22.8	17.7
72.5°	96.1	87.3	79.7	72.1	63.3	56.9	49.3	43.0	35.4	27.8	21.5
70°	115.1	105.0	94.9	84.8	75.9	65.8	58.2	49.3	41.7	32.9	25.3
67.5°	134.1	122.7	111.3	98.7	87.3	77.2	65.8	56.9	46.8	38.0	29.1
65°	156.9	141.7	127.8	113.9	99.9	87.3	75.9	63.3	53.1	43.0	32.9
62.5°	178.4	161.9	145.5	129.0	113.9	98.7	84.8	72.1	59.5	48.1	36.7
60°	199.9	182.2	163.2	145.5	127.8	111.3	94.9	79.7	65.8	53.1	40.5
57.5°	221.4	201.1	182.2	161.9	141.7	122.7	105.0	87.3	72.1	56.9	44.3
55°	240.4	221.4	199.9	178.4	156.9	134.1	115.1	96.1	78.4	62.0	48.1
52.5°	260.6	239.1	217.6	193.5	172.0	146.7	125.2	103.7	84.8	67.0	51.9
50°	279.6	256.8	232.8	210.0	184.7	159.4	135.4	112.6	91.1	72.1	54.4
47.5°	297.3	273.2	249.2	223.9	198.6	172.0	145.5	120.2	97.4	77.2	58.2
45°	312.5	291.0	264.4	237.8	212.5	183.4	155.6	127.8	103.7	82.2	60.7
42.5°	326.4	304.9	279.6	253.0	223.9	194.8	165.7	136.6	110.1	86.0	64.5
40°	339.0	317.5	293.5	264.4	235.3	206.2	174.6	144.2	116.4	91.1	67.0
37.5°	351.7	328.9	304.9	277.0	246.7	216.3	184.7	153.1	122.7	94.9	70.8
35°	361.8	340.3	315.0	288.4	256.8	226.4	193.5	160.7	127.8	98.7	74.6
32.5°	370.6	350.4	326.4	298.5	266.9	234.0	201.1	167.0	132.8	103.7	77.2
30°	379.5	359.3	334.0	307.4	277.0	242.9	208.7	173.3	139.2	107.5	79.7
27.5°	388.4	366.9	342.8	315.0	285.9	250.5	216.3	179.6	144.2	111.3	82.2
25°	395.9	373.2	350.4	322.6	293.5	258.1	222.6	186.0	149.3	115.1	84.8
22.5°	402.3	379.5	356.7	328.9	299.8	264.4	227.7	191.0	153.1	117.6	87.3
20°	408.6	385.8	361.8	335.2	304.9	270.7	232.8	196.1	156.9	120.2	88.6
17.5°	414.9	390.9	366.9	340.3	309.9	275.8	237.8	199.9	160.7	122.7	91.1
15°	420.0	394.7	370.6	344.1	315.0	280.8	241.6	203.7	163.2	125.2	92.3
12.5°	423.8	398.5	374.4	347.9	317.5	284.6	245.4	206.2	165.7	127.8	93.6
10°	427.6	402.3	377.0	351.7	321.3	287.2	247.9	208.7	168.2	129.0	94.9
7.5°	430.1	404.8	379.5	354.2	323.8	289.7	250.5	211.3	169.5	130.3	96.1
5°	432.6	406.1	380.8	355.5	325.1	293.5	253.0	213.8	172.0	131.6	96.1
2.5°	433.9	407.3	382.0	356.7	326.4	293.5	253.0	213.8	172.0	131.6	96.1
0°	433.9	407.3	382.0	356.7	326.4	293.5	253.0	213.8	172.0	131.6	96.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	1.3	0.0
85°	3.8	2.5	1.3	0.0
82.5°	6.3	3.8	2.5	0.0
80°	8.9	6.3	2.5	0.0
77.5°	10.1	7.6	3.8	0.0
75°	12.7	8.9	3.8	0.0
72.5°	15.2	10.1	5.1	0.0
70°	16.4	11.4	5.1	0.0
67.5°	20.2	12.7	6.3	0.0
65°	22.8	13.9	6.3	0.0
62.5°	25.3	15.2	7.6	0.0
60°	27.8	16.4	7.6	0.0
57.5°	31.6	17.7	8.9	0.0
55°	34.2	20.2	8.9	0.0
52.5°	36.7	21.5	10.1	0.0
50°	39.2	22.8	10.1	0.0
47.5°	40.5	25.3	11.4	0.0
45°	43.0	26.6	11.4	0.0
42.5°	45.5	27.8	12.7	0.0
40°	48.1	29.1	12.7	0.0
37.5°	50.6	30.4	12.7	0.0
35°	51.9	31.6	13.9	0.0
32.5°	54.4	32.9	13.9	0.0
30°	55.7	34.2	13.9	0.0
27.5°	56.9	35.4	15.2	0.0
25°	58.2	35.4	15.2	0.0
22.5°	59.5	36.7	15.2	0.0
20°	60.7	38.0	15.2	0.0
17.5°	62.0	38.0	15.2	0.0
15°	63.3	39.2	16.4	0.0
12.5°	64.5	39.2	16.4	0.0
10°	64.5	40.5	16.4	0.0
7.5°	65.8	40.5	16.4	0.0
5°	65.8	40.5	16.4	0.0
2.5°	65.8	40.5	16.4	0.0
0°	65.8	40.5	16.4	0.0

(END OF REPORT)