

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: P623669

Luminaire Tested: **IFLD-S-SA2D-740-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623669
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	16307 lumens	Max Intensity:	19927.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	131.6 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:	8105 lumens	Field Lumens:	10540.8 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

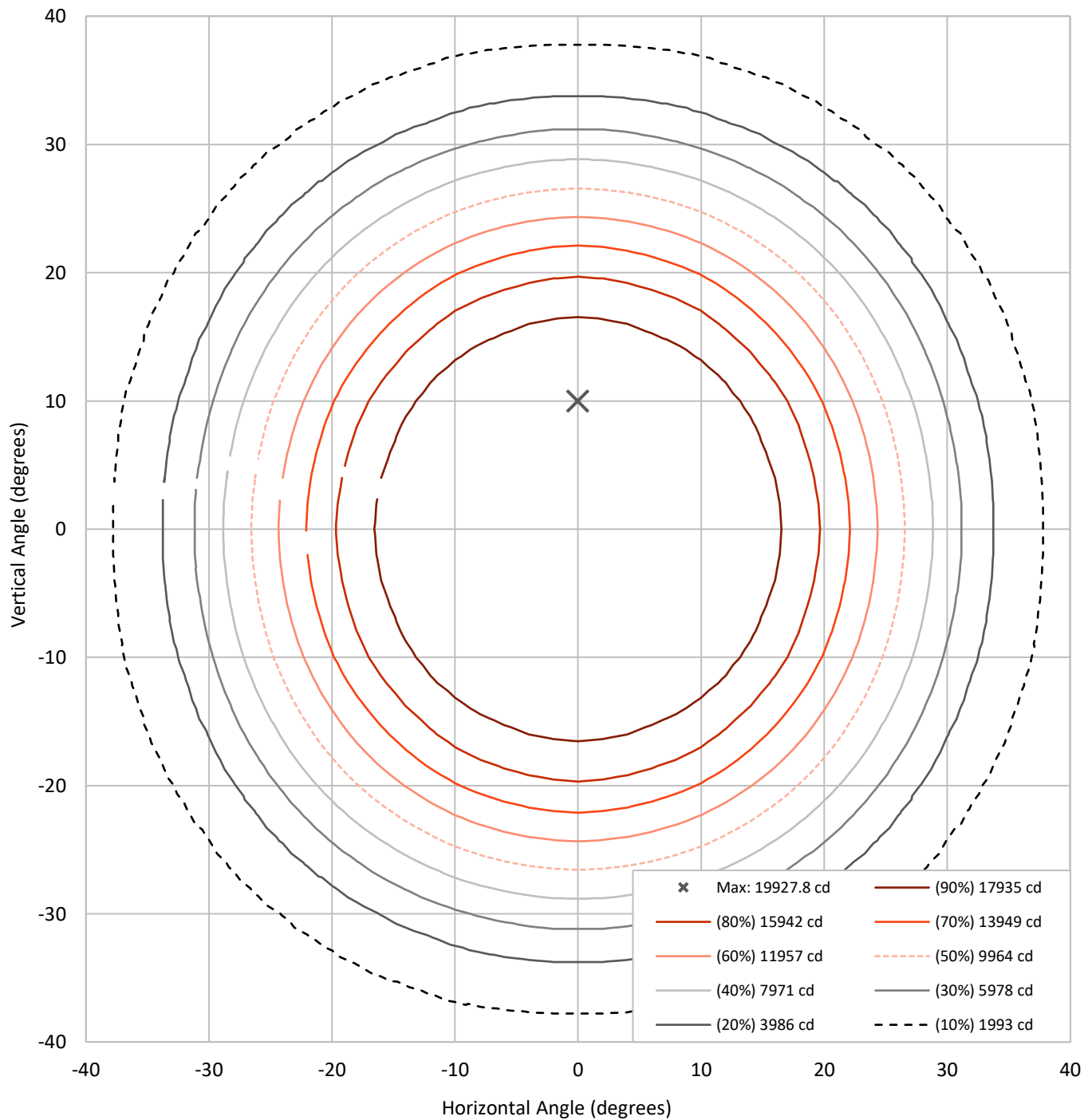
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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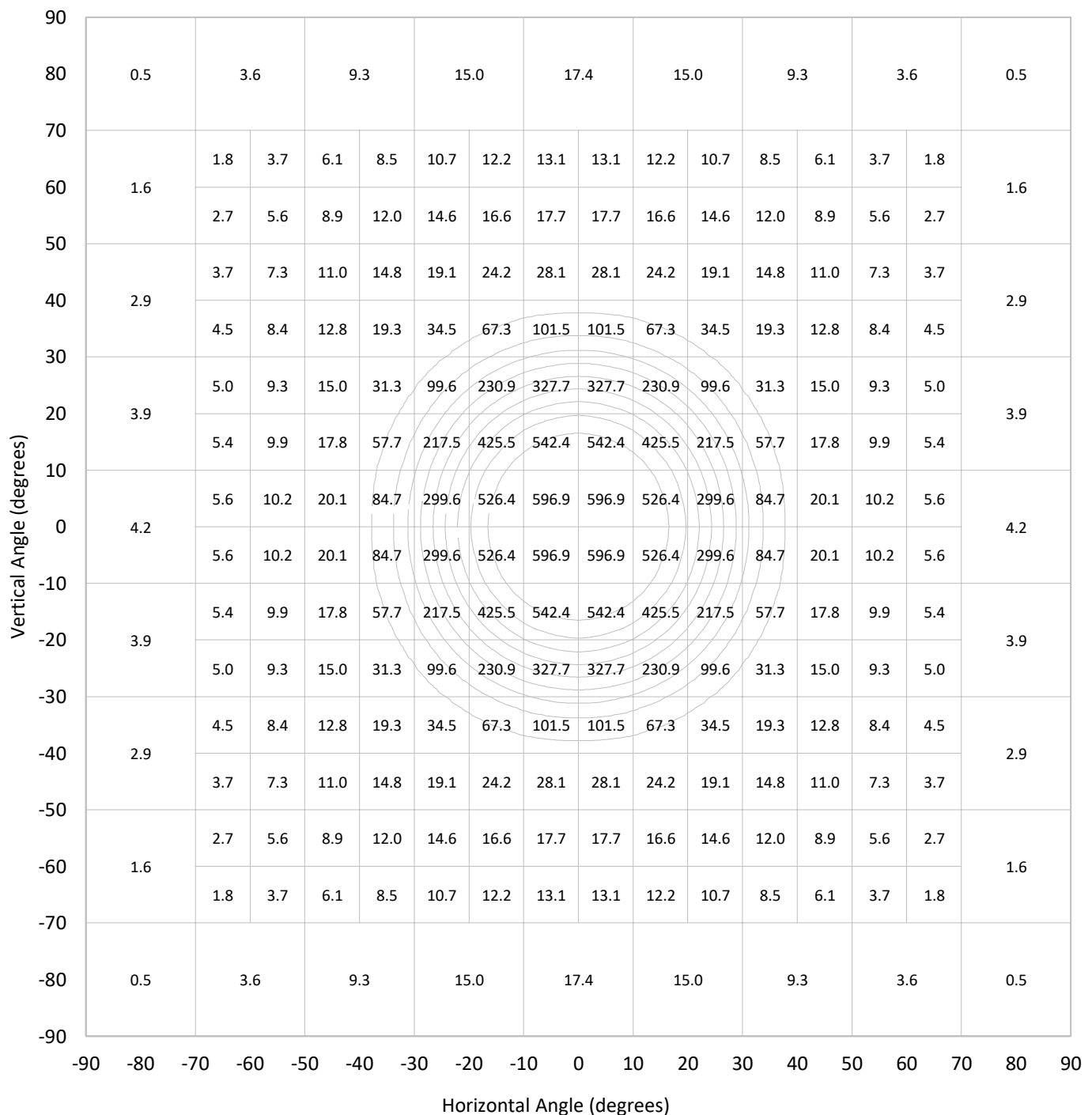
Iso-Candela Plot





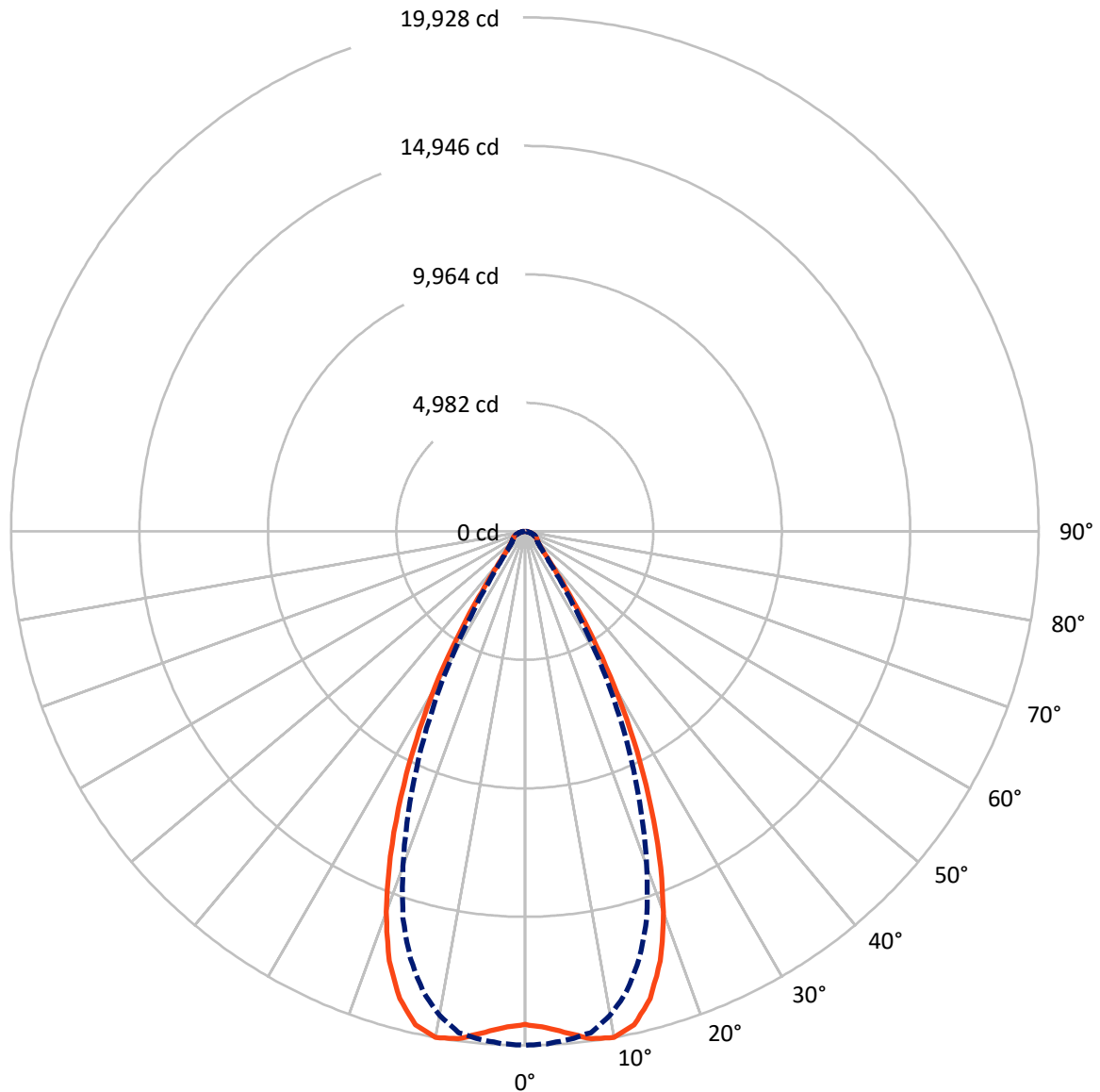
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Lumen Table



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Luminous Intensity Polar Plot

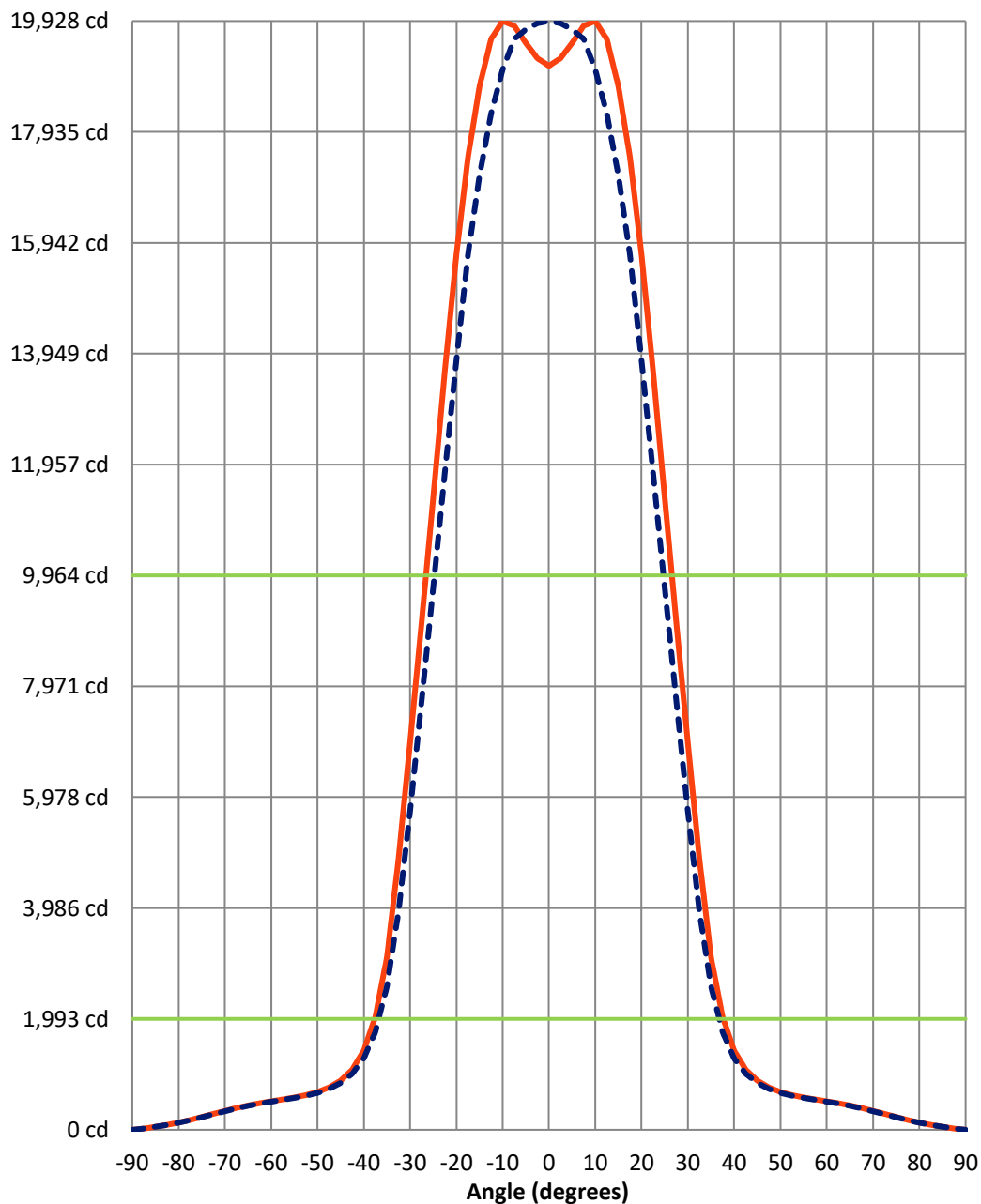


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 8105
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 10540.8
Efficiency: 64.6%

Spill:

Lumens: 5766.2
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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	20.3	20.3	20.3	20.3
85°	54.2	54.2	54.2	54.2	54.2	52.5	52.5	50.8	50.8	49.1	47.4
82.5°	88.1	88.1	88.1	88.1	86.4	86.4	84.7	83.0	81.3	79.6	77.9
80°	128.7	128.7	128.7	128.7	127.0	125.4	123.7	122.0	118.6	116.9	113.5
77.5°	176.2	176.2	176.2	174.5	172.8	171.1	167.7	164.3	160.9	157.5	154.2
75°	230.4	230.4	230.4	227.0	225.3	221.9	218.5	215.1	210.1	205.0	199.9
72.5°	286.3	286.3	286.3	282.9	279.5	276.1	272.7	267.6	262.6	255.8	249.0
70°	338.8	338.8	338.8	335.4	332.0	328.6	323.5	318.5	311.7	304.9	298.1
67.5°	393.0	393.0	393.0	387.9	384.5	381.1	376.1	369.3	362.5	354.0	345.6
65°	437.0	437.0	435.3	433.7	430.3	425.2	421.8	415.0	408.2	401.5	393.0
62.5°	477.7	477.7	476.0	474.3	470.9	465.8	460.8	455.7	448.9	440.4	432.0
60°	511.6	511.6	509.9	508.2	504.8	501.4	496.3	491.2	484.5	477.7	469.2
57.5°	545.5	545.5	543.8	542.1	538.7	533.6	528.5	523.4	516.7	508.2	499.7
55°	581.0	581.0	579.3	575.9	572.6	567.5	562.4	555.6	547.2	538.7	530.2
52.5°	623.4	623.4	620.0	616.6	611.5	606.4	598.0	589.5	579.3	569.2	559.0
50°	679.3	679.3	675.9	670.8	662.3	653.9	643.7	630.2	618.3	604.7	591.2
47.5°	762.3	762.3	755.5	747.0	735.2	721.6	703.0	682.7	665.7	648.8	628.5
45°	884.2	884.2	874.1	860.5	841.9	818.2	791.1	762.3	733.5	704.7	675.9
42.5°	1082.4	1082.4	1063.8	1040.1	1007.9	967.3	916.4	869.0	828.3	782.6	743.6
40°	1424.6	1424.6	1389.0	1345.0	1284.0	1206.1	1112.9	1038.4	967.3	887.6	833.4
37.5°	2032.8	2032.8	1963.3	1878.6	1760.0	1611.0	1431.4	1311.1	1179.0	1053.6	962.2
35°	3106.7	3106.7	2972.9	2808.6	2579.9	2291.9	1985.3	1758.3	1505.9	1312.8	1141.7
32.5°	4868.5	4868.5	4627.9	4331.5	3923.2	3406.6	2915.3	2483.4	2032.8	1712.6	1404.3
30°	6962.2	6962.2	6647.1	6259.2	5727.3	5056.5	4356.9	3589.5	2878.0	2307.2	1841.3
27.5°	9127.1	9037.3	8766.3	8324.1	7717.7	6962.2	6089.8	5098.8	4136.7	3130.4	2464.7
25°	11366.5	11261.5	10951.5	10443.3	9748.8	8893.3	7910.8	6803.0	5615.5	4416.2	3264.3
22.5°	13629.6	13511.1	13158.7	12584.5	11805.2	10846.4	9733.5	8502.0	7175.6	5790.0	4416.2
20°	15721.7	15596.3	15227.0	14629.1	13822.7	12770.8	11534.2	10168.9	8701.9	7175.6	5615.5
17.5°	17473.2	17353.0	16997.2	16426.4	15721.7	14557.9	13272.2	11771.4	10168.9	8502.0	6803.0
15°	18752.2	18648.8	18345.6	17866.2	17148.0	16118.1	14808.6	13272.2	11534.2	9733.5	7910.8
12.5°	19600.8	19517.8	19279.0	18906.3	18262.6	17398.7	16118.1	14557.9	12770.8	10846.4	8893.3
10°	19927.8	19887.1	19775.3	19604.2	19055.4	18262.6	17148.0	15721.7	13822.7	11805.2	9748.8
7.5°	19841.4	19854.9	19893.9	19849.9	19604.2	18906.3	17866.2	16426.4	14629.1	12584.5	10443.3
5°	19533.1	19605.9	19787.2	19893.9	19775.3	19279.0	18345.6	16997.2	15227.0	13158.7	10951.5
2.5°	19258.7	19372.2	19605.9	19854.9	19887.1	19517.8	18648.8	17353.0	15596.3	13511.1	11261.5
0°	19123.2	19258.7	19533.1	19841.4	19927.8	19600.8	18752.2	17473.2	15721.7	13629.6	11366.5

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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°	20.3	18.6	18.6	18.6	16.9	16.9	16.9	15.2	15.2	13.6	13.6
85°	47.4	45.7	44.0	42.3	40.7	39.0	37.3	35.6	33.9	30.5	28.8
82.5°	76.2	74.5	72.8	69.5	67.8	64.4	61.0	57.6	54.2	52.5	49.1
80°	110.1	106.7	103.3	99.9	94.9	89.8	86.4	81.3	77.9	72.8	69.5
77.5°	149.1	144.0	138.9	132.1	127.0	122.0	115.2	110.1	103.3	96.6	89.8
75°	193.1	186.3	177.9	171.1	164.3	155.8	147.4	138.9	130.4	122.0	113.5
72.5°	240.5	232.1	223.6	215.1	205.0	193.1	182.9	171.1	160.9	150.8	138.9
70°	289.7	279.5	269.3	259.2	247.3	233.8	221.9	208.4	194.8	181.3	167.7
67.5°	335.4	325.2	313.4	303.2	289.7	276.1	260.9	245.6	230.4	213.4	196.5
65°	382.8	371.0	357.4	343.9	330.3	315.1	299.8	284.6	266.0	247.3	230.4
62.5°	421.8	411.6	399.8	386.2	371.0	354.0	338.8	318.5	299.8	281.2	259.2
60°	459.1	447.2	437.0	421.8	408.2	393.0	374.4	354.0	333.7	311.7	291.4
57.5°	491.2	481.1	469.2	455.7	440.4	425.2	408.2	389.6	365.9	343.9	320.2
55°	520.0	508.2	496.3	484.5	470.9	454.0	437.0	418.4	398.1	374.4	349.0
52.5°	548.8	537.0	523.4	511.6	496.3	481.1	464.1	445.5	425.2	403.2	376.1
50°	577.6	564.1	550.5	535.3	520.0	504.8	487.9	470.9	448.9	426.9	403.2
47.5°	611.5	594.6	577.6	560.7	545.5	526.8	509.9	491.2	472.6	448.9	425.2
45°	653.9	628.5	608.1	587.8	569.2	550.5	530.2	511.6	491.2	470.9	445.5
42.5°	706.4	672.5	645.4	618.3	594.6	572.6	552.2	530.2	509.9	487.9	464.1
40°	777.5	731.8	687.7	653.9	623.4	596.3	572.6	550.5	526.8	504.8	481.1
37.5°	870.7	806.3	745.3	696.2	657.3	623.4	594.6	569.2	545.5	520.0	496.3
35°	1011.3	899.5	821.6	750.4	696.2	653.9	618.3	587.8	560.7	535.3	511.6
32.5°	1209.5	1036.7	911.4	821.6	745.3	687.7	645.4	608.1	577.6	550.5	523.4
30°	1470.4	1231.5	1036.7	899.5	806.3	731.8	672.5	628.5	594.6	564.1	537.0
27.5°	1883.7	1470.4	1209.5	1011.3	870.7	777.5	706.4	653.9	611.5	577.6	548.8
25°	2464.7	1841.3	1404.3	1141.7	962.2	833.4	743.6	675.9	628.5	591.2	559.0
22.5°	3130.4	2307.2	1712.6	1312.8	1053.6	887.6	782.6	704.7	648.8	604.7	569.2
20°	4136.7	2878.0	2032.8	1505.9	1179.0	967.3	828.3	733.5	665.7	618.3	579.3
17.5°	5098.8	3589.5	2483.4	1758.3	1311.1	1038.4	869.0	762.3	682.7	630.2	589.5
15°	6089.8	4356.9	2915.3	1985.3	1431.4	1112.9	916.4	791.1	703.0	643.7	598.0
12.5°	6962.2	5056.5	3406.6	2291.9	1611.0	1206.1	967.3	818.2	721.6	653.9	606.4
10°	7717.7	5727.3	3923.2	2579.9	1760.0	1284.0	1007.9	841.9	735.2	662.3	611.5
7.5°	8324.1	6259.2	4331.5	2808.6	1878.6	1345.0	1040.1	860.5	747.0	670.8	616.6
5°	8766.3	6647.1	4627.9	2972.9	1963.3	1389.0	1063.8	874.1	755.5	675.9	620.0
2.5°	9037.3	6962.2	4868.5	3106.7	2032.8	1424.6	1082.4	884.2	762.3	679.3	623.4
0°	9127.1	6962.2	4868.5	3106.7	2032.8	1424.6	1082.4	884.2	762.3	679.3	623.4

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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°	11.9	11.9	10.2	10.2	8.5	8.5	6.8	6.8	5.1	5.1	3.4
85°	27.1	23.7	22.0	20.3	18.6	16.9	15.2	13.6	11.9	10.2	8.5
82.5°	45.7	42.3	37.3	33.9	30.5	27.1	22.0	20.3	16.9	13.6	11.9
80°	64.4	59.3	54.2	49.1	44.0	39.0	33.9	28.8	23.7	18.6	15.2
77.5°	83.0	76.2	71.1	64.4	57.6	50.8	44.0	37.3	30.5	23.7	18.6
75°	105.0	96.6	88.1	79.6	71.1	62.7	55.9	47.4	39.0	30.5	23.7
72.5°	128.7	116.9	106.7	96.6	84.7	76.2	66.1	57.6	47.4	37.3	28.8
70°	154.2	140.6	127.0	113.5	101.6	88.1	77.9	66.1	55.9	44.0	33.9
67.5°	179.6	164.3	149.1	132.1	116.9	103.3	88.1	76.2	62.7	50.8	39.0
65°	210.1	189.7	171.1	152.5	133.8	116.9	101.6	84.7	71.1	57.6	44.0
62.5°	238.8	216.8	194.8	172.8	152.5	132.1	113.5	96.6	79.6	64.4	49.1
60°	267.6	243.9	218.5	194.8	171.1	149.1	127.0	106.7	88.1	71.1	54.2
57.5°	296.4	269.3	243.9	216.8	189.7	164.3	140.6	116.9	96.6	76.2	59.3
55°	321.9	296.4	267.6	238.8	210.1	179.6	154.2	128.7	105.0	83.0	64.4
52.5°	349.0	320.2	291.4	259.2	230.4	196.5	167.7	138.9	113.5	89.8	69.5
50°	374.4	343.9	311.7	281.2	247.3	213.4	181.3	150.8	122.0	96.6	72.8
47.5°	398.1	365.9	333.7	299.8	266.0	230.4	194.8	160.9	130.4	103.3	77.9
45°	418.4	389.6	354.0	318.5	284.6	245.6	208.4	171.1	138.9	110.1	81.3
42.5°	437.0	408.2	374.4	338.8	299.8	260.9	221.9	182.9	147.4	115.2	86.4
40°	454.0	425.2	393.0	354.0	315.1	276.1	233.8	193.1	155.8	122.0	89.8
37.5°	470.9	440.4	408.2	371.0	330.3	289.7	247.3	205.0	164.3	127.0	94.9
35°	484.5	455.7	421.8	386.2	343.9	303.2	259.2	215.1	171.1	132.1	99.9
32.5°	496.3	469.2	437.0	399.8	357.4	313.4	269.3	223.6	177.9	138.9	103.3
30°	508.2	481.1	447.2	411.6	371.0	325.2	279.5	232.1	186.3	144.0	106.7
27.5°	520.0	491.2	459.1	421.8	382.8	335.4	289.7	240.5	193.1	149.1	110.1
25°	530.2	499.7	469.2	432.0	393.0	345.6	298.1	249.0	199.9	154.2	113.5
22.5°	538.7	508.2	477.7	440.4	401.5	354.0	304.9	255.8	205.0	157.5	116.9
20°	547.2	516.7	484.5	448.9	408.2	362.5	311.7	262.6	210.1	160.9	118.6
17.5°	555.6	523.4	491.2	455.7	415.0	369.3	318.5	267.6	215.1	164.3	122.0
15°	562.4	528.5	496.3	460.8	421.8	376.1	323.5	272.7	218.5	167.7	123.7
12.5°	567.5	533.6	501.4	465.8	425.2	381.1	328.6	276.1	221.9	171.1	125.4
10°	572.6	538.7	504.8	470.9	430.3	384.5	332.0	279.5	225.3	172.8	127.0
7.5°	575.9	542.1	508.2	474.3	433.7	387.9	335.4	282.9	227.0	174.5	128.7
5°	579.3	543.8	509.9	476.0	435.3	393.0	338.8	286.3	230.4	176.2	128.7
2.5°	581.0	545.5	511.6	477.7	437.0	393.0	338.8	286.3	230.4	176.2	128.7
0°	581.0	545.5	511.6	477.7	437.0	393.0	338.8	286.3	230.4	176.2	128.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.7	0.0
85°	5.1	3.4	1.7	0.0
82.5°	8.5	5.1	3.4	0.0
80°	11.9	8.5	3.4	0.0
77.5°	13.6	10.2	5.1	0.0
75°	16.9	11.9	5.1	0.0
72.5°	20.3	13.6	6.8	0.0
70°	22.0	15.2	6.8	0.0
67.5°	27.1	16.9	8.5	0.0
65°	30.5	18.6	8.5	0.0
62.5°	33.9	20.3	10.2	0.0
60°	37.3	22.0	10.2	0.0
57.5°	42.3	23.7	11.9	0.0
55°	45.7	27.1	11.9	0.0
52.5°	49.1	28.8	13.6	0.0
50°	52.5	30.5	13.6	0.0
47.5°	54.2	33.9	15.2	0.0
45°	57.6	35.6	15.2	0.0
42.5°	61.0	37.3	16.9	0.0
40°	64.4	39.0	16.9	0.0
37.5°	67.8	40.7	16.9	0.0
35°	69.5	42.3	18.6	0.0
32.5°	72.8	44.0	18.6	0.0
30°	74.5	45.7	18.6	0.0
27.5°	76.2	47.4	20.3	0.0
25°	77.9	47.4	20.3	0.0
22.5°	79.6	49.1	20.3	0.0
20°	81.3	50.8	20.3	0.0
17.5°	83.0	50.8	20.3	0.0
15°	84.7	52.5	22.0	0.0
12.5°	86.4	52.5	22.0	0.0
10°	86.4	54.2	22.0	0.0
7.5°	88.1	54.2	22.0	0.0
5°	88.1	54.2	22.0	0.0
2.5°	88.1	54.2	22.0	0.0
0°	88.1	54.2	22.0	0.0

(END OF REPORT)