

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: P623420

Luminaire Tested: **IFLD-M-SA4A-740-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623420
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	19175.3 lumens	Max Intensity:	62004.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.1 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:	6918.8 lumens	Field Lumens:	11683.4 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

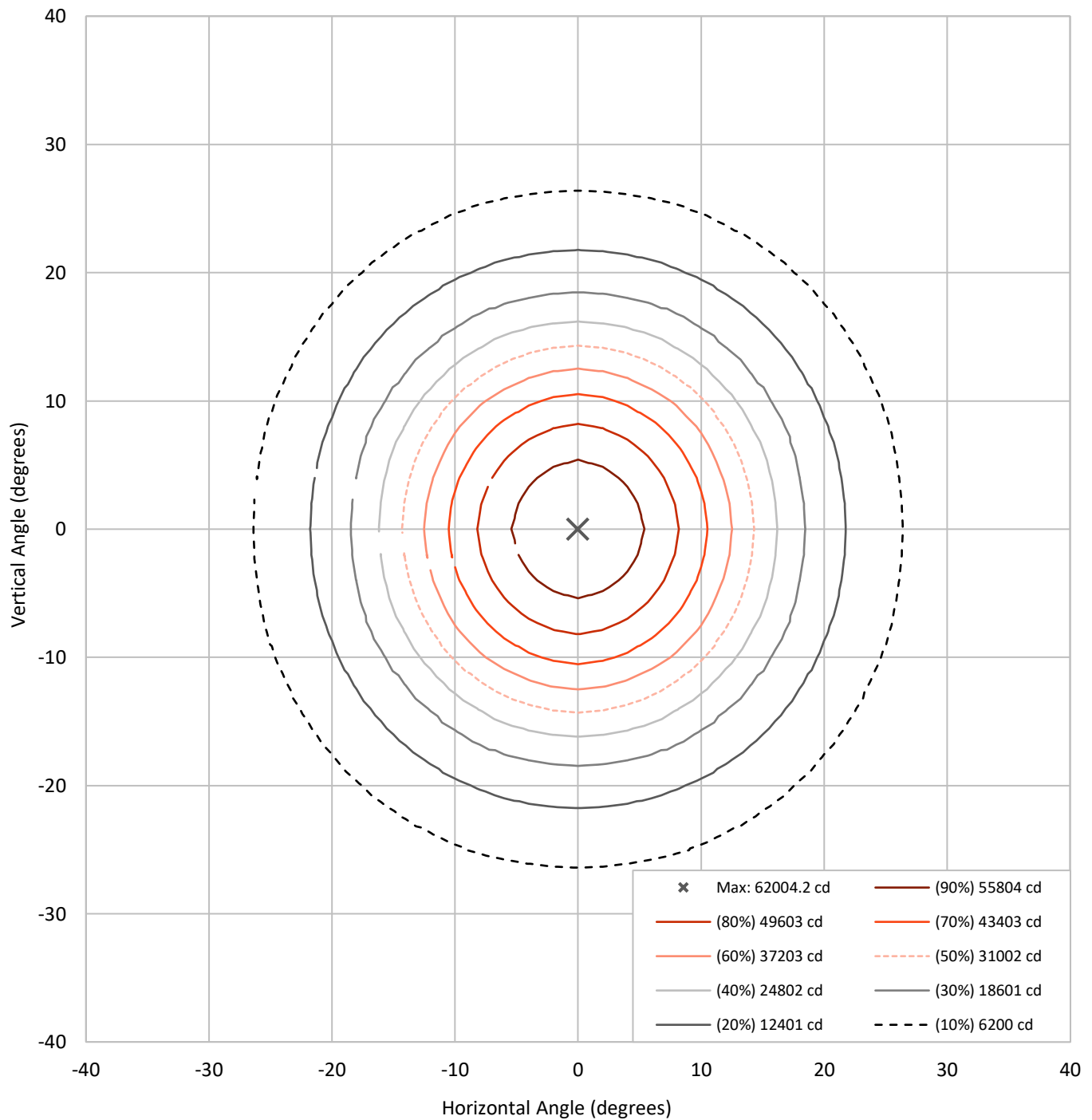
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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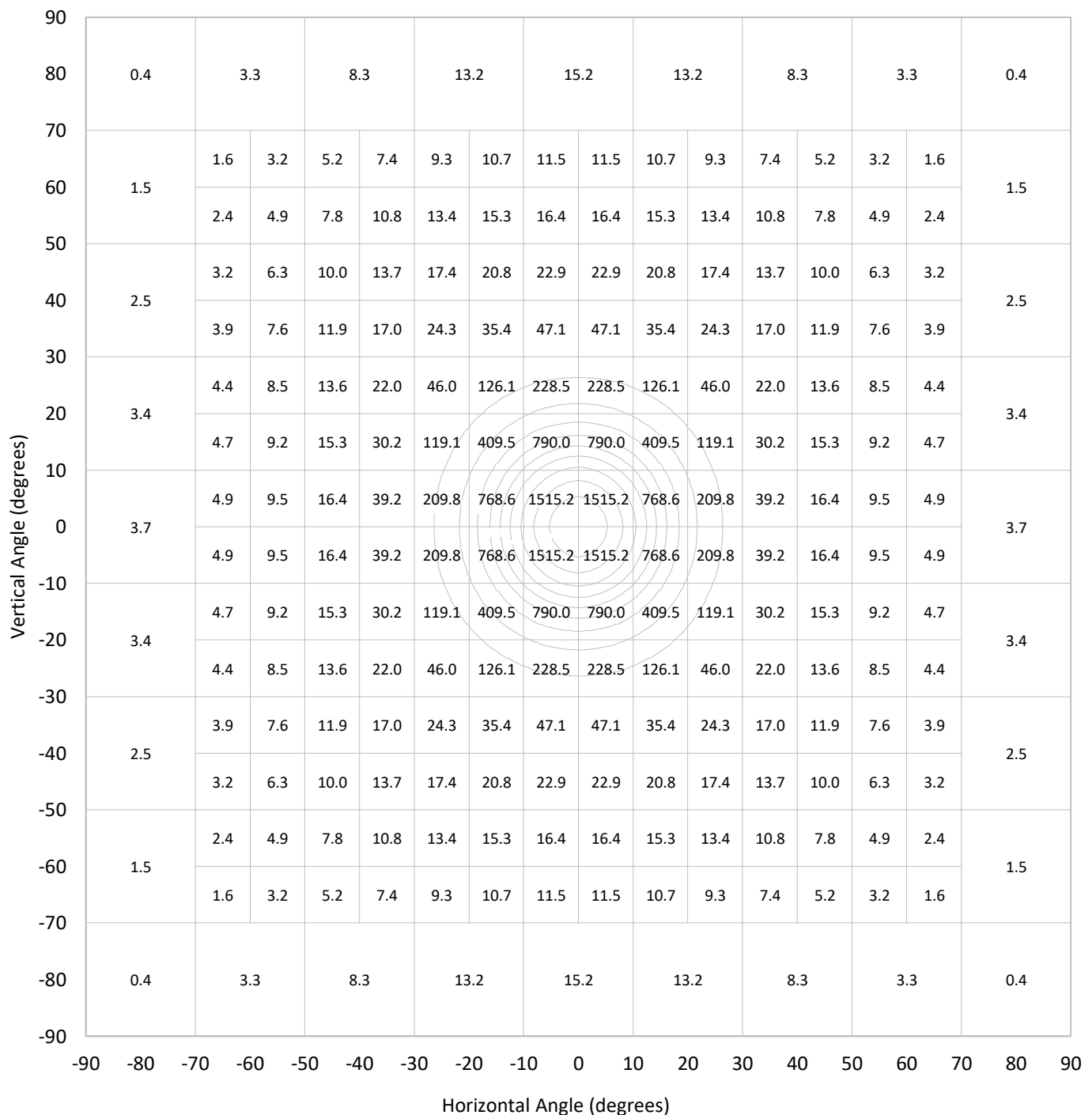
Iso-Candela Plot



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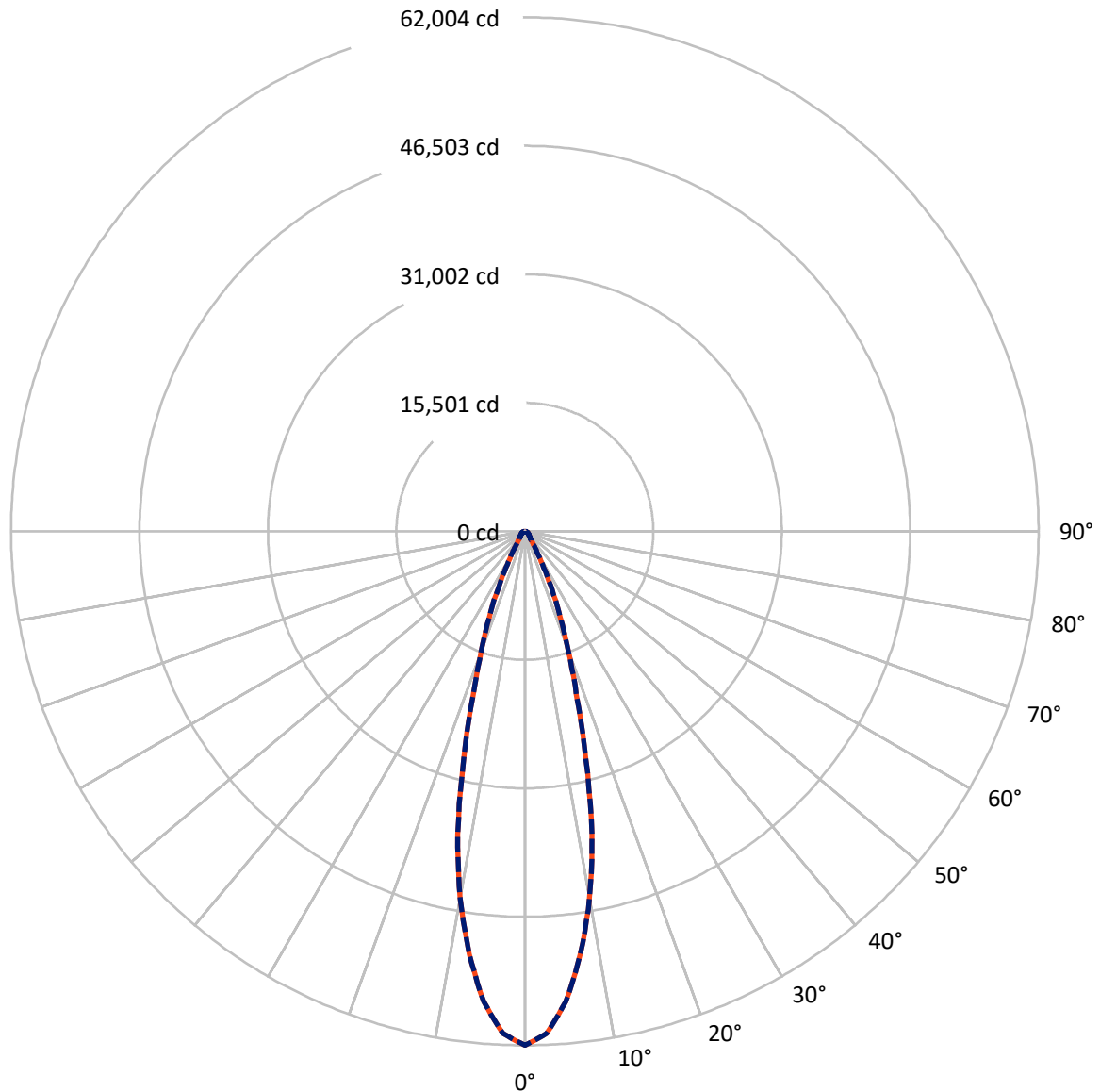
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Lumen Table



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Luminous Intensity Polar Plot

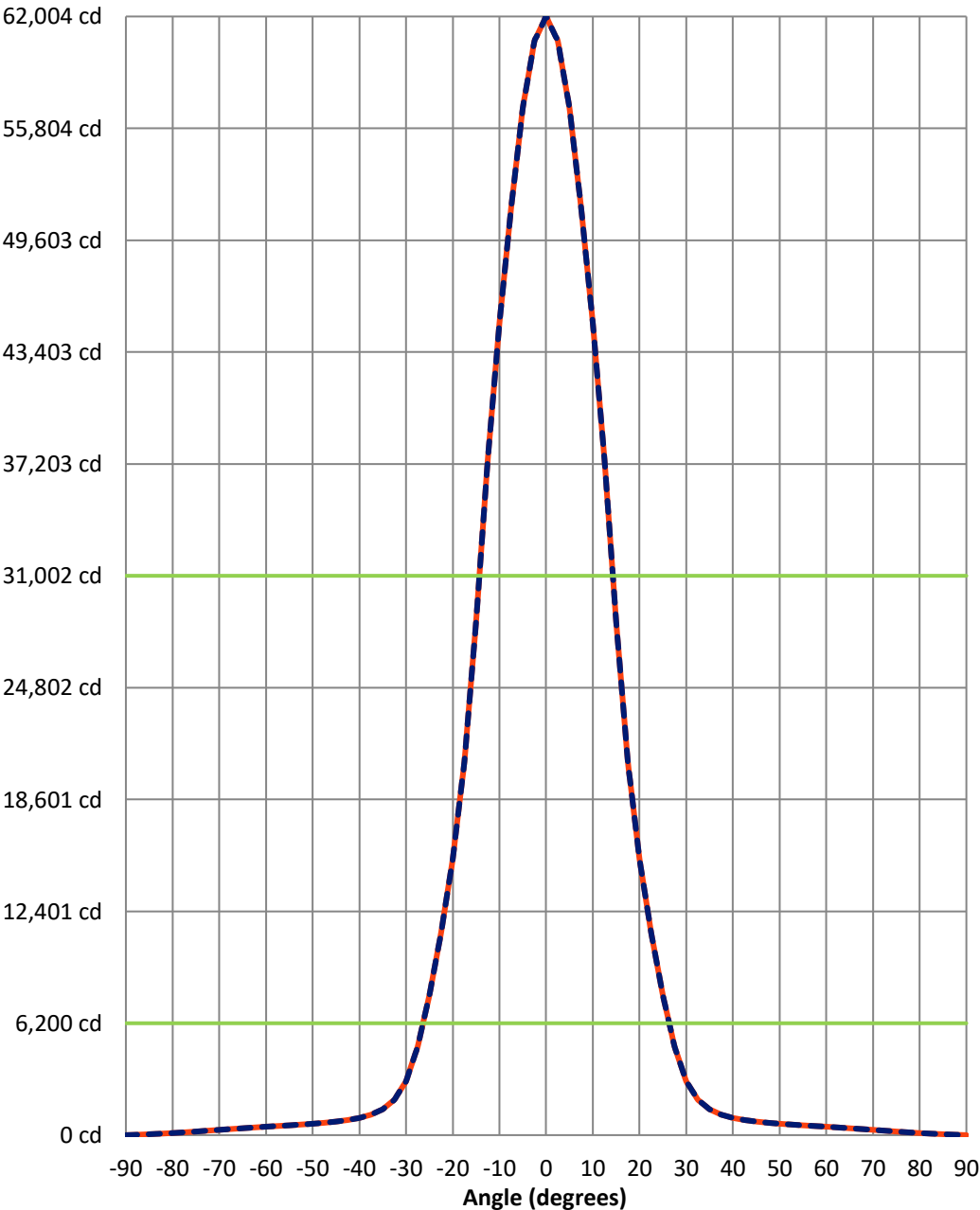


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 6918.8
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 11683.4
Efficiency: 60.9%

Spill:
Lumens: 7492
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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	20.0	20.0	20.0	20.0
85°	50.0	50.0	50.0	50.0	50.0	48.0	48.0	48.0	46.0	46.0	44.0
82.5°	80.0	80.0	80.0	80.0	78.0	78.0	76.0	76.0	74.0	74.0	72.0
80°	114.0	114.0	114.0	114.0	112.0	110.0	110.0	108.0	106.0	104.0	102.0
77.5°	153.9	153.9	153.9	151.9	149.9	149.9	147.9	143.9	141.9	137.9	135.9
75°	197.9	197.9	197.9	195.9	193.9	191.9	187.9	185.9	181.9	177.9	171.9
72.5°	245.9	245.9	245.9	243.9	239.9	237.9	233.9	229.9	225.9	219.9	213.9
70°	291.9	291.9	291.9	287.9	285.9	281.9	277.9	273.9	267.9	261.9	255.9
67.5°	337.9	337.9	337.9	333.9	331.9	327.9	323.9	317.9	311.9	303.9	297.9
65°	379.9	379.9	377.9	375.9	373.9	369.9	363.9	359.9	353.9	345.9	337.9
62.5°	423.8	423.8	421.8	419.8	415.8	411.8	405.8	399.8	391.8	383.9	375.9
60°	467.8	467.8	465.8	463.8	459.8	453.8	447.8	441.8	433.8	423.8	413.8
57.5°	503.8	503.8	501.8	499.8	495.8	491.8	485.8	479.8	471.8	463.8	451.8
55°	541.8	541.8	539.8	535.8	531.8	527.8	521.8	513.8	505.8	495.8	487.8
52.5°	585.8	585.8	583.8	579.8	573.8	567.8	559.8	549.8	539.8	529.8	517.8
50°	629.8	629.8	625.8	621.8	617.8	609.8	601.8	591.8	579.8	567.8	553.8
47.5°	683.7	683.7	679.7	673.7	665.7	657.7	645.8	631.8	619.8	605.8	589.8
45°	749.7	749.7	743.7	737.7	727.7	713.7	699.7	683.7	665.7	647.8	627.8
42.5°	835.7	835.7	827.7	817.7	803.7	785.7	763.7	741.7	719.7	695.7	671.7
40°	951.6	951.6	939.6	925.6	903.7	877.7	845.7	815.7	785.7	751.7	721.7
37.5°	1133.6	1133.6	1113.6	1087.6	1051.6	1007.6	953.6	913.6	867.7	823.7	783.7
35°	1431.5	1431.5	1395.5	1349.5	1285.5	1205.5	1119.6	1051.6	975.6	913.6	855.7
32.5°	1961.2	1961.2	1889.3	1799.3	1677.4	1521.4	1377.5	1257.5	1133.6	1037.6	945.6
30°	2986.9	2986.9	2832.9	2643.0	2381.1	2053.2	1807.3	1577.4	1367.5	1209.5	1075.6
27.5°	4912.1	4832.1	4592.2	4198.4	3658.6	2986.9	2559.0	2073.2	1741.3	1439.4	1253.5
25°	7755.0	7623.1	7227.2	6581.5	5701.8	4704.2	3830.5	2908.9	2327.1	1825.3	1479.4
22.5°	11209.7	11027.8	10490.0	9612.3	8422.8	7095.3	5681.8	4356.3	3176.8	2413.1	1825.3
20°	15300.1	15056.2	14334.5	13163.0	11587.6	9898.2	8010.9	6235.6	4534.3	3176.8	2327.1
17.5°	20700.1	20328.2	19234.6	17475.3	15300.1	13023.0	10663.9	8372.8	6235.6	4356.3	2908.9
15°	28463.1	27835.3	26000.0	23085.1	19698.4	16523.7	13514.8	10663.9	8010.9	5681.8	3830.5
12.5°	37437.6	36564.0	34035.0	30090.5	25488.2	20468.2	16523.7	13023.0	9898.2	7095.3	4704.2
10°	44998.7	44077.1	41464.1	37507.6	31671.9	25488.2	19698.4	15300.1	11587.6	8422.8	5701.8
7.5°	51386.3	50354.7	47537.8	43209.4	37507.6	30090.5	23085.1	17475.3	13163.0	9612.3	6581.5
5°	56934.2	55626.7	52347.9	47537.8	41464.1	34035.0	26000.0	19234.6	14334.5	10490.0	7227.2
2.5°	60640.7	59105.3	55626.7	50354.7	44077.1	36564.0	27835.3	20328.2	15056.2	11027.8	7623.1
0°	62004.2	60640.7	56934.2	51386.3	44998.7	37437.6	28463.1	20700.1	15300.1	11209.7	7755.0

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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°	20.0	20.0	18.0	18.0	18.0	16.0	16.0	16.0	14.0	14.0	14.0
85°	44.0	42.0	42.0	40.0	38.0	36.0	36.0	34.0	32.0	30.0	28.0
82.5°	70.0	68.0	66.0	64.0	62.0	58.0	56.0	54.0	50.0	48.0	46.0
80°	98.0	96.0	92.0	90.0	86.0	82.0	78.0	74.0	70.0	66.0	62.0
77.5°	131.9	126.0	122.0	118.0	112.0	108.0	102.0	98.0	92.0	86.0	80.0
75°	167.9	161.9	155.9	149.9	143.9	135.9	130.0	122.0	116.0	108.0	102.0
72.5°	207.9	199.9	191.9	183.9	175.9	167.9	159.9	149.9	141.9	131.9	122.0
70°	247.9	239.9	231.9	221.9	211.9	201.9	191.9	179.9	169.9	157.9	145.9
67.5°	289.9	279.9	269.9	259.9	249.9	237.9	223.9	211.9	197.9	183.9	171.9
65°	329.9	319.9	307.9	295.9	283.9	271.9	257.9	243.9	227.9	211.9	197.9
62.5°	365.9	355.9	345.9	331.9	319.9	305.9	291.9	273.9	257.9	241.9	223.9
60°	403.8	391.8	379.9	365.9	351.9	337.9	321.9	303.9	287.9	267.9	249.9
57.5°	439.8	427.8	413.8	399.8	383.9	367.9	351.9	333.9	315.9	295.9	275.9
55°	475.8	463.8	449.8	433.8	415.8	397.8	379.9	361.9	343.9	321.9	299.9
52.5°	505.8	493.8	479.8	467.8	447.8	429.8	409.8	387.9	367.9	345.9	323.9
50°	537.8	523.8	507.8	493.8	477.8	459.8	437.8	415.8	391.8	369.9	345.9
47.5°	573.8	555.8	537.8	519.8	503.8	483.8	465.8	441.8	417.8	391.8	367.9
45°	609.8	589.8	569.8	547.8	527.8	507.8	487.8	467.8	441.8	415.8	387.9
42.5°	647.8	623.8	601.8	579.8	555.8	531.8	509.8	487.8	465.8	437.8	409.8
40°	691.7	663.7	635.8	609.8	585.8	557.8	531.8	507.8	483.8	459.8	429.8
37.5°	741.7	707.7	673.7	641.8	611.8	585.8	555.8	527.8	503.8	477.8	447.8
35°	805.7	755.7	715.7	675.7	641.8	609.8	579.8	547.8	519.8	493.8	467.8
32.5°	877.7	815.7	761.7	715.7	673.7	635.8	601.8	569.8	537.8	507.8	479.8
30°	965.6	885.7	815.7	755.7	707.7	663.7	623.8	589.8	555.8	523.8	493.8
27.5°	1089.6	965.6	877.7	805.7	741.7	691.7	647.8	609.8	573.8	537.8	505.8
25°	1253.5	1075.6	945.6	855.7	783.7	721.7	671.7	627.8	589.8	553.8	517.8
22.5°	1439.4	1209.5	1037.6	913.6	823.7	751.7	695.7	647.8	605.8	567.8	529.8
20°	1741.3	1367.5	1133.6	975.6	867.7	785.7	719.7	665.7	619.8	579.8	539.8
17.5°	2073.2	1577.4	1257.5	1051.6	913.6	815.7	741.7	683.7	631.8	591.8	549.8
15°	2559.0	1807.3	1377.5	1119.6	953.6	845.7	763.7	699.7	645.8	601.8	559.8
12.5°	2986.9	2053.2	1521.4	1205.5	1007.6	877.7	785.7	713.7	657.7	609.8	567.8
10°	3658.6	2381.1	1677.4	1285.5	1051.6	903.7	803.7	727.7	665.7	617.8	573.8
7.5°	4198.4	2643.0	1799.3	1349.5	1087.6	925.6	817.7	737.7	673.7	621.8	579.8
5°	4592.2	2832.9	1889.3	1395.5	1113.6	939.6	827.7	743.7	679.7	625.8	583.8
2.5°	4832.1	2986.9	1961.2	1431.5	1133.6	951.6	835.7	749.7	683.7	629.8	585.8
0°	4912.1	2986.9	1961.2	1431.5	1133.6	951.6	835.7	749.7	683.7	629.8	585.8

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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°	12.0	12.0	10.0	10.0	10.0	8.0	8.0	6.0	6.0	4.0	4.0
85°	26.0	24.0	22.0	20.0	18.0	16.0	16.0	14.0	12.0	10.0	8.0
82.5°	42.0	40.0	36.0	32.0	30.0	26.0	22.0	20.0	18.0	14.0	12.0
80°	58.0	54.0	50.0	46.0	42.0	36.0	32.0	28.0	22.0	18.0	16.0
77.5°	76.0	70.0	64.0	58.0	52.0	48.0	42.0	36.0	30.0	24.0	18.0
75°	94.0	86.0	80.0	72.0	66.0	58.0	50.0	44.0	38.0	30.0	22.0
72.5°	114.0	104.0	96.0	86.0	78.0	70.0	60.0	52.0	44.0	36.0	28.0
70°	135.9	124.0	112.0	102.0	92.0	80.0	70.0	60.0	50.0	42.0	32.0
67.5°	157.9	143.9	130.0	116.0	104.0	92.0	80.0	70.0	58.0	48.0	36.0
65°	179.9	163.9	149.9	133.9	118.0	104.0	92.0	78.0	66.0	52.0	42.0
62.5°	203.9	185.9	167.9	149.9	133.9	116.0	102.0	86.0	72.0	58.0	46.0
60°	229.9	209.9	187.9	167.9	149.9	130.0	112.0	96.0	80.0	64.0	50.0
57.5°	253.9	231.9	209.9	185.9	163.9	143.9	124.0	104.0	86.0	70.0	54.0
55°	277.9	253.9	229.9	203.9	179.9	157.9	135.9	114.0	94.0	76.0	58.0
52.5°	299.9	275.9	249.9	223.9	197.9	171.9	145.9	122.0	102.0	80.0	62.0
50°	321.9	295.9	267.9	241.9	211.9	183.9	157.9	131.9	108.0	86.0	66.0
47.5°	343.9	315.9	287.9	257.9	227.9	197.9	169.9	141.9	116.0	92.0	70.0
45°	361.9	333.9	303.9	273.9	243.9	211.9	179.9	149.9	122.0	98.0	74.0
42.5°	379.9	351.9	321.9	291.9	257.9	223.9	191.9	159.9	130.0	102.0	78.0
40°	397.8	367.9	337.9	305.9	271.9	237.9	201.9	167.9	135.9	108.0	82.0
37.5°	415.8	383.9	351.9	319.9	283.9	249.9	211.9	175.9	143.9	112.0	86.0
35°	433.8	399.8	365.9	331.9	295.9	259.9	221.9	183.9	149.9	118.0	90.0
32.5°	449.8	413.8	379.9	345.9	307.9	269.9	231.9	191.9	155.9	122.0	92.0
30°	463.8	427.8	391.8	355.9	319.9	279.9	239.9	199.9	161.9	126.0	96.0
27.5°	475.8	439.8	403.8	365.9	329.9	289.9	247.9	207.9	167.9	131.9	98.0
25°	487.8	451.8	413.8	375.9	337.9	297.9	255.9	213.9	171.9	135.9	102.0
22.5°	495.8	463.8	423.8	383.9	345.9	303.9	261.9	219.9	177.9	137.9	104.0
20°	505.8	471.8	433.8	391.8	353.9	311.9	267.9	225.9	181.9	141.9	106.0
17.5°	513.8	479.8	441.8	399.8	359.9	317.9	273.9	229.9	185.9	143.9	108.0
15°	521.8	485.8	447.8	405.8	363.9	323.9	277.9	233.9	187.9	147.9	110.0
12.5°	527.8	491.8	453.8	411.8	369.9	327.9	281.9	237.9	191.9	149.9	110.0
10°	531.8	495.8	459.8	415.8	373.9	331.9	285.9	239.9	193.9	149.9	112.0
7.5°	535.8	499.8	463.8	419.8	375.9	333.9	287.9	243.9	195.9	151.9	114.0
5°	539.8	501.8	465.8	421.8	377.9	337.9	291.9	245.9	197.9	153.9	114.0
2.5°	541.8	503.8	467.8	423.8	379.9	337.9	291.9	245.9	197.9	153.9	114.0
0°	541.8	503.8	467.8	423.8	379.9	337.9	291.9	245.9	197.9	153.9	114.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	0.0	0.0
85°	6.0	4.0	2.0	0.0
82.5°	8.0	6.0	2.0	0.0
80°	12.0	8.0	4.0	0.0
77.5°	14.0	10.0	4.0	0.0
75°	18.0	12.0	6.0	0.0
72.5°	20.0	14.0	6.0	0.0
70°	22.0	16.0	8.0	0.0
67.5°	26.0	16.0	8.0	0.0
65°	30.0	18.0	10.0	0.0
62.5°	32.0	20.0	10.0	0.0
60°	36.0	22.0	10.0	0.0
57.5°	40.0	24.0	12.0	0.0
55°	42.0	26.0	12.0	0.0
52.5°	46.0	28.0	14.0	0.0
50°	48.0	30.0	14.0	0.0
47.5°	50.0	32.0	14.0	0.0
45°	54.0	34.0	16.0	0.0
42.5°	56.0	36.0	16.0	0.0
40°	58.0	36.0	16.0	0.0
37.5°	62.0	38.0	18.0	0.0
35°	64.0	40.0	18.0	0.0
32.5°	66.0	42.0	18.0	0.0
30°	68.0	42.0	20.0	0.0
27.5°	70.0	44.0	20.0	0.0
25°	72.0	44.0	20.0	0.0
22.5°	74.0	46.0	20.0	0.0
20°	74.0	46.0	20.0	0.0
17.5°	76.0	48.0	20.0	0.0
15°	76.0	48.0	22.0	0.0
12.5°	78.0	48.0	22.0	0.0
10°	78.0	50.0	22.0	0.0
7.5°	80.0	50.0	22.0	0.0
5°	80.0	50.0	22.0	0.0
2.5°	80.0	50.0	22.0	0.0
0°	80.0	50.0	22.0	0.0

(END OF REPORT)