

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: P623826

Luminaire Tested: **IFLD-M-SA4A-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623826
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-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

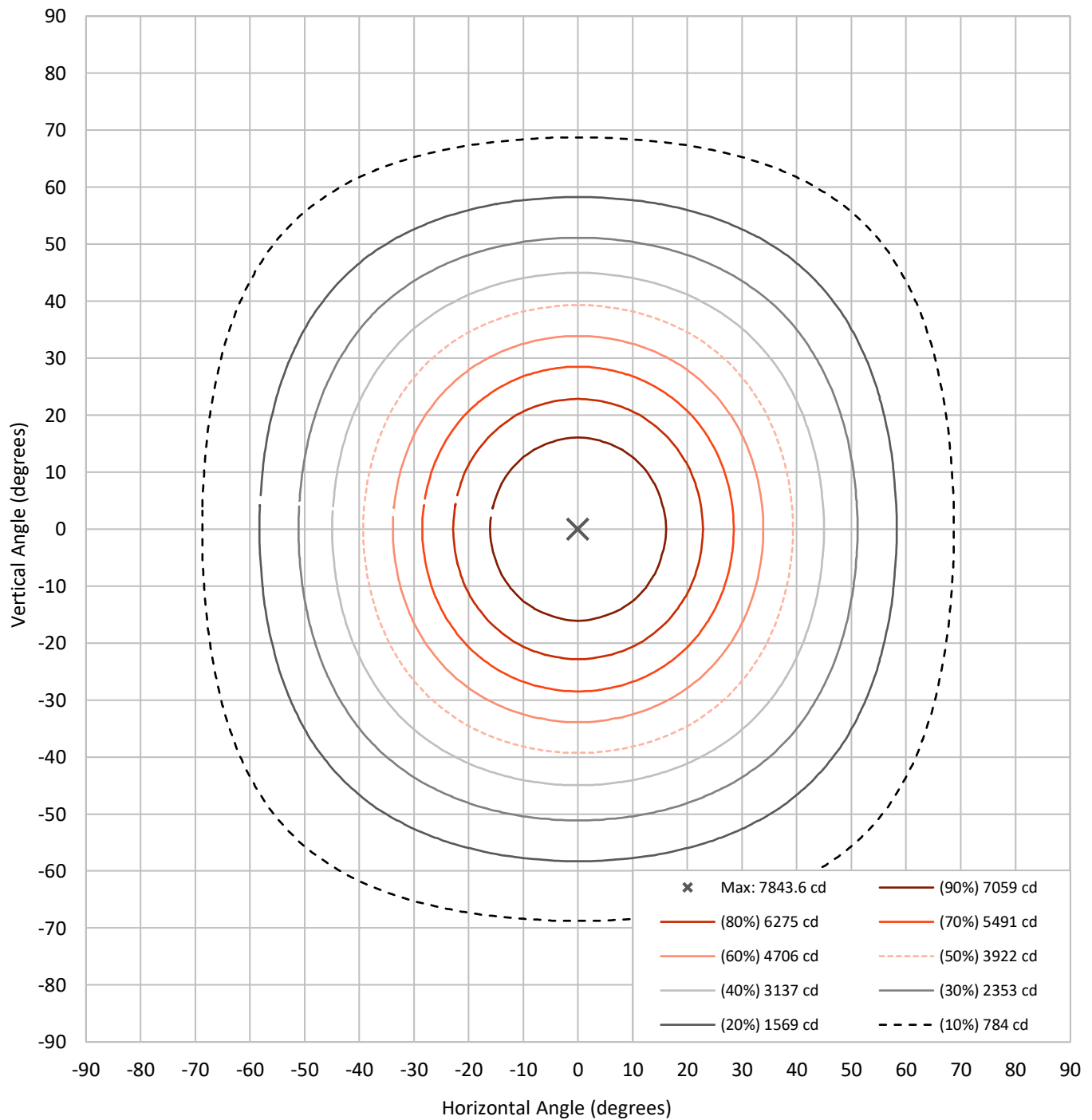
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14122.6 lumens	Max Intensity:	7843.6 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%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6110.7 lumens	Field Lumens:	10006.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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		



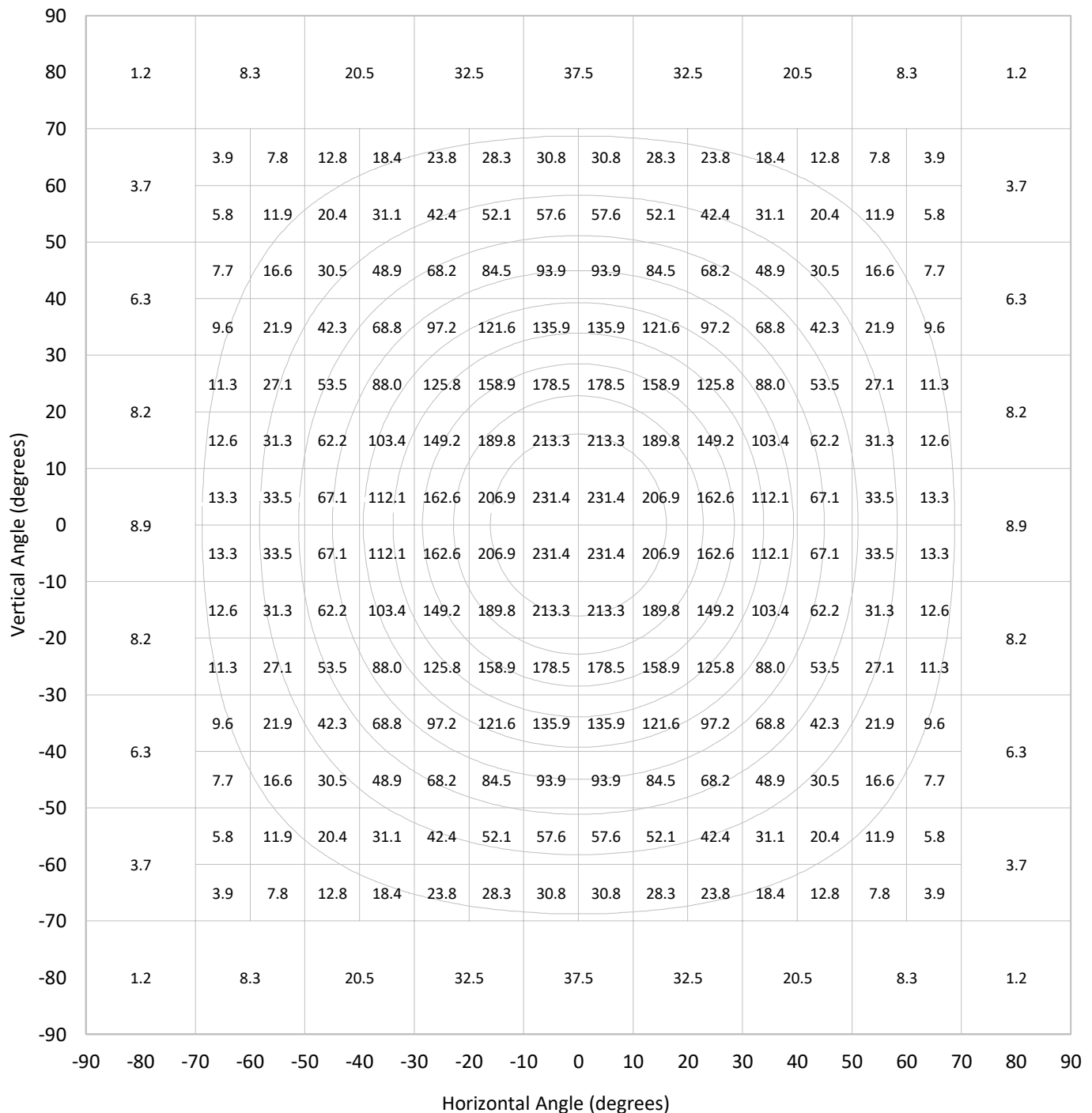
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Iso-Candela Plot



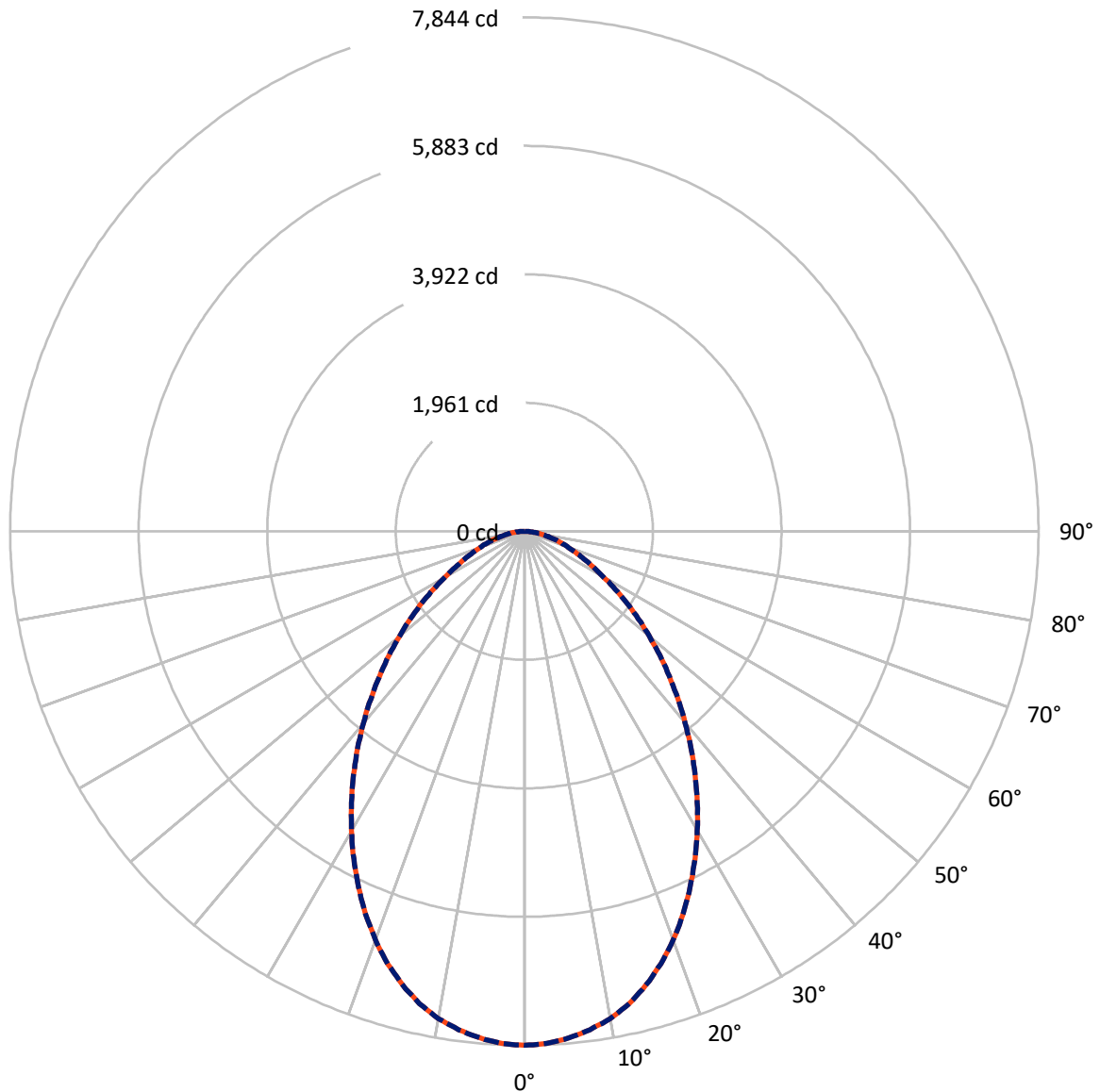
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Lumen Table



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Luminous Intensity Polar Plot

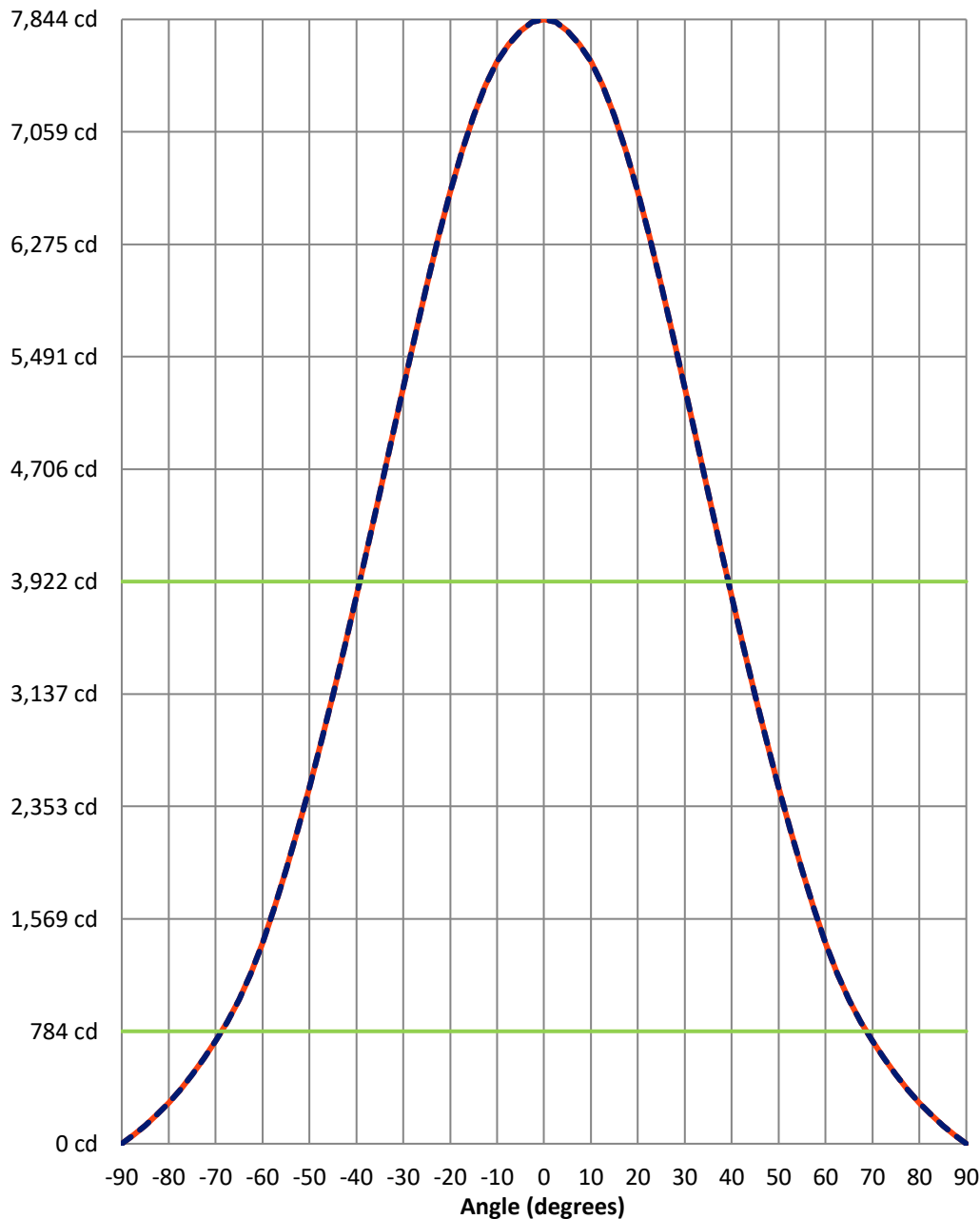


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 6110.7

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 10006.1

Efficiency: 70.9%

Spill:

Lumens: 4116.5

Efficiency: 29.1%

— 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°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	57.4	57.4	56.0	54.5
85°	126.6	126.6	126.6	126.6	126.6	123.7	122.2	120.7	119.3	116.3	114.8
82.5°	203.2	203.2	203.2	203.2	200.2	197.3	195.8	192.9	189.9	185.5	181.1
80°	284.2	284.2	284.2	284.2	279.8	276.8	272.4	269.5	265.0	259.1	253.3
77.5°	376.9	376.9	376.9	372.5	369.6	365.2	360.7	354.9	349.0	341.6	332.8
75°	481.5	481.5	481.5	475.6	471.2	466.8	459.4	452.0	443.2	432.9	421.1
72.5°	594.9	594.9	594.9	587.5	583.1	575.7	566.9	556.6	546.3	533.0	518.3
70°	717.1	717.1	717.1	708.2	700.9	693.5	681.7	670.0	655.2	640.5	622.8
67.5°	849.6	849.6	849.6	839.3	830.4	820.1	806.9	792.2	774.5	753.9	733.3
65°	1004.2	1004.2	998.3	989.5	979.2	964.4	948.2	927.6	905.5	879.0	851.1
62.5°	1186.8	1186.8	1177.9	1167.6	1154.4	1135.2	1113.2	1086.6	1055.7	1021.9	988.0
60°	1398.8	1398.8	1388.5	1375.2	1356.1	1332.5	1303.1	1269.2	1230.9	1188.2	1147.0
57.5°	1643.2	1643.2	1630.0	1612.3	1588.7	1559.3	1522.5	1479.8	1431.2	1378.2	1326.7
55°	1908.3	1908.3	1892.1	1871.4	1843.5	1808.1	1764.0	1713.9	1655.0	1594.6	1528.4
52.5°	2189.5	2189.5	2170.4	2146.8	2114.4	2073.2	2023.1	1964.2	1896.5	1825.8	1747.8
50°	2485.4	2485.4	2463.4	2436.9	2400.0	2351.5	2294.0	2226.3	2151.2	2068.8	1978.9
47.5°	2802.0	2802.0	2777.0	2746.1	2701.9	2645.9	2578.2	2500.2	2414.8	2322.0	2220.4
45°	3127.4	3127.4	3099.4	3064.1	3015.5	2952.2	2877.1	2802.0	2693.1	2585.6	2467.8
42.5°	3466.1	3466.1	3433.7	3393.9	3338.0	3268.8	3183.4	3086.2	2978.7	2858.0	2729.9
40°	3818.0	3818.0	3781.2	3735.5	3673.7	3594.2	3498.5	3389.5	3268.8	3134.8	2993.4
37.5°	4177.3	4177.3	4136.0	4086.0	4016.8	3928.4	3820.9	3700.2	3564.7	3416.0	3259.9
35°	4539.5	4539.5	4493.8	4439.4	4362.8	4265.6	4149.3	4015.3	3865.1	3703.1	3527.9
32.5°	4909.1	4909.1	4859.0	4797.2	4710.3	4602.8	4474.7	4328.9	4177.3	3988.8	3797.4
30°	5274.2	5274.2	5219.7	5152.0	5059.2	4941.4	4801.6	4641.1	4462.9	4270.0	4063.9
27.5°	5633.5	5618.8	5573.1	5501.0	5399.4	5274.2	5122.6	4948.8	4755.9	4543.9	4323.0
25°	5986.9	5970.7	5920.6	5841.1	5732.1	5595.2	5431.8	5246.2	5038.6	4814.8	4573.3
22.5°	6325.5	6307.9	6254.8	6169.4	6053.1	5904.4	5729.2	5530.4	5309.6	5069.5	4814.8
20°	6639.2	6620.0	6565.5	6475.7	6355.0	6197.4	6011.9	5798.4	5562.8	5309.6	5038.6
17.5°	6921.9	6902.7	6845.3	6752.5	6639.2	6463.9	6272.5	6047.2	5798.4	5530.4	5246.2
15°	7170.7	7150.1	7091.2	6998.4	6868.8	6703.9	6502.2	6272.5	6011.9	5729.2	5431.8
12.5°	7382.7	7362.1	7301.7	7209.0	7075.0	6910.1	6703.9	6463.9	6197.4	5904.4	5595.2
10°	7550.6	7530.0	7472.5	7384.2	7245.8	7075.0	6868.8	6639.2	6355.0	6053.1	5732.1
7.5°	7671.3	7652.2	7599.2	7510.8	7384.2	7209.0	6998.4	6752.5	6475.7	6169.4	5841.1
5°	7762.6	7740.5	7687.5	7599.2	7472.5	7301.7	7091.2	6845.3	6565.5	6254.8	5920.6
2.5°	7825.9	7799.4	7740.5	7652.2	7530.0	7362.1	7150.1	6902.7	6620.0	6307.9	5970.7
0°	7843.6	7825.9	7762.6	7671.3	7550.6	7382.7	7170.7	6921.9	6639.2	6325.5	5986.9

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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°	53.0	53.0	51.5	50.1	48.6	45.6	44.2	42.7	41.2	38.3	36.8
85°	111.9	109.0	106.0	103.1	98.7	95.7	91.3	88.3	83.9	79.5	75.1
82.5°	176.7	172.3	166.4	162.0	156.1	148.7	142.8	135.5	128.1	122.2	114.8
80°	247.4	240.0	232.6	225.3	216.4	207.6	198.8	189.9	179.6	169.3	159.0
77.5°	323.9	313.6	303.3	291.5	281.2	269.5	257.7	245.9	232.6	219.4	206.1
75°	409.3	396.1	381.4	366.6	353.4	337.2	321.0	304.8	287.1	270.9	253.3
72.5°	502.1	485.9	468.2	450.6	431.4	410.8	390.2	368.1	347.5	326.9	304.8
70°	602.2	583.1	561.0	538.9	515.3	490.3	465.3	438.8	412.3	385.8	359.3
67.5°	709.7	686.1	659.6	633.1	603.7	574.2	544.8	513.9	481.5	449.1	418.2
65°	824.6	795.1	764.2	730.3	696.5	662.6	627.3	590.4	553.6	515.3	481.5
62.5°	952.7	915.8	876.1	834.9	796.6	755.4	717.1	671.4	627.3	584.6	541.9
60°	1101.4	1052.8	1004.2	952.7	904.1	851.1	803.9	753.9	703.8	655.2	605.2
57.5°	1267.8	1205.9	1147.0	1085.2	1020.4	961.5	901.1	840.8	784.8	727.4	672.9
55°	1456.2	1381.1	1307.5	1230.9	1155.9	1082.2	1005.7	937.9	868.7	803.9	740.6
52.5°	1662.4	1577.0	1485.7	1398.8	1303.1	1211.8	1126.4	1041.0	960.0	882.0	809.8
50°	1883.2	1783.1	1678.6	1572.5	1463.6	1356.1	1253.0	1152.9	1058.7	967.4	882.0
47.5°	2112.9	1999.5	1880.3	1759.5	1643.2	1512.2	1388.5	1275.1	1161.7	1058.7	960.0
45°	2348.5	2220.4	2089.4	1952.4	1815.5	1674.1	1537.2	1398.8	1275.1	1152.9	1041.0
42.5°	2591.5	2447.2	2301.4	2149.7	1998.1	1843.5	1688.9	1537.2	1388.5	1253.0	1126.4
40°	2841.8	2682.8	2516.4	2351.5	2189.5	2012.8	1843.5	1674.1	1512.2	1356.1	1211.8
37.5°	3092.1	2918.3	2738.7	2553.2	2367.7	2189.5	1998.1	1815.5	1643.2	1463.6	1303.1
35°	3343.9	3152.5	2958.1	2756.4	2553.2	2351.5	2149.7	1952.4	1759.5	1572.5	1398.8
32.5°	3597.1	3388.0	3173.1	2958.1	2738.7	2516.4	2301.4	2089.4	1880.3	1678.6	1485.7
30°	3846.0	3619.2	3388.0	3152.5	2918.3	2682.8	2447.2	2220.4	1999.5	1783.1	1577.0
27.5°	4088.9	3846.0	3597.1	3343.9	3092.1	2841.8	2591.5	2348.5	2112.9	1883.2	1662.4
25°	4323.0	4063.9	3797.4	3527.9	3259.9	2993.4	2729.9	2467.8	2220.4	1978.9	1747.8
22.5°	4543.9	4270.0	3988.8	3703.1	3416.0	3134.8	2858.0	2585.6	2322.0	2068.8	1825.8
20°	4755.9	4462.9	4177.3	3865.1	3564.7	3268.8	2978.7	2693.1	2414.8	2151.2	1896.5
17.5°	4948.8	4641.1	4328.9	4015.3	3700.2	3389.5	3086.2	2802.0	2500.2	2226.3	1964.2
15°	5122.6	4801.6	4474.7	4149.3	3820.9	3498.5	3183.4	2877.1	2578.2	2294.0	2023.1
12.5°	5274.2	4941.4	4602.8	4265.6	3928.4	3594.2	3268.8	2952.2	2645.9	2351.5	2073.2
10°	5399.4	5059.2	4710.3	4362.8	4016.8	3673.7	3338.0	3015.5	2701.9	2400.0	2114.4
7.5°	5501.0	5152.0	4797.2	4439.4	4086.0	3735.5	3393.9	3064.1	2746.1	2436.9	2146.8
5°	5573.1	5219.7	4859.0	4493.8	4136.0	3781.2	3433.7	3099.4	2777.0	2463.4	2170.4
2.5°	5618.8	5274.2	4909.1	4539.5	4177.3	3818.0	3466.1	3127.4	2802.0	2485.4	2189.5
0°	5633.5	5274.2	4909.1	4539.5	4177.3	3818.0	3466.1	3127.4	2802.0	2485.4	2189.5

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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°	35.3	32.4	29.4	28.0	25.0	23.6	20.6	17.7	16.2	13.3	10.3
85°	70.7	64.8	60.4	56.0	51.5	45.6	41.2	36.8	30.9	26.5	20.6
82.5°	107.5	100.1	92.8	85.4	78.0	70.7	61.8	54.5	47.1	39.8	30.9
80°	148.7	136.9	126.6	116.3	106.0	95.7	83.9	73.6	61.8	51.5	41.2
77.5°	191.4	178.2	163.4	148.7	134.0	120.7	106.0	92.8	79.5	64.8	51.5
75°	237.1	219.4	203.2	184.1	166.4	147.2	129.6	111.9	95.7	79.5	61.8
72.5°	284.2	262.1	240.0	219.4	197.3	175.2	154.6	132.5	111.9	92.8	73.6
70°	332.8	306.3	279.8	254.7	229.7	203.2	179.6	154.6	129.6	106.0	83.9
67.5°	384.3	353.4	322.5	290.1	262.1	232.6	203.2	175.2	147.2	120.7	95.7
65°	440.3	403.4	365.2	331.3	294.5	262.1	229.7	197.3	166.4	134.0	106.0
62.5°	497.7	455.0	412.3	369.6	331.3	290.1	254.7	219.4	184.1	148.7	116.3
60°	556.6	508.0	459.4	412.3	365.2	322.5	279.8	240.0	203.2	163.4	126.6
57.5°	616.9	562.5	508.0	455.0	403.4	353.4	306.3	262.1	219.4	178.2	136.9
55°	678.8	616.9	556.6	497.7	440.3	384.3	332.8	284.2	237.1	191.4	148.7
52.5°	740.6	672.9	605.2	541.9	481.5	418.2	359.3	304.8	253.3	206.1	159.0
50°	803.9	727.4	655.2	584.6	515.3	449.1	385.8	326.9	270.9	219.4	169.3
47.5°	868.7	784.8	703.8	627.3	553.6	481.5	412.3	347.5	287.1	232.6	179.6
45°	937.9	840.8	753.9	671.4	590.4	513.9	438.8	368.1	304.8	245.9	189.9
42.5°	1005.7	901.1	803.9	717.1	627.3	544.8	465.3	390.2	321.0	257.7	198.8
40°	1082.2	961.5	851.1	755.4	662.6	574.2	490.3	410.8	337.2	269.5	207.6
37.5°	1155.9	1020.4	904.1	796.6	696.5	603.7	515.3	431.4	353.4	281.2	216.4
35°	1230.9	1085.2	952.7	834.9	730.3	633.1	538.9	450.6	366.6	291.5	225.3
32.5°	1307.5	1147.0	1004.2	876.1	764.2	659.6	561.0	468.2	381.4	303.3	232.6
30°	1381.1	1205.9	1052.8	915.8	795.1	686.1	583.1	485.9	396.1	313.6	240.0
27.5°	1456.2	1267.8	1101.4	952.7	824.6	709.7	602.2	502.1	409.3	323.9	247.4
25°	1528.4	1326.7	1147.0	988.0	851.1	733.3	622.8	518.3	421.1	332.8	253.3
22.5°	1594.6	1378.2	1188.2	1021.9	879.0	753.9	640.5	533.0	432.9	341.6	259.1
20°	1655.0	1431.2	1230.9	1055.7	905.5	774.5	655.2	546.3	443.2	349.0	265.0
17.5°	1713.9	1479.8	1269.2	1086.6	927.6	792.2	670.0	556.6	452.0	354.9	269.5
15°	1764.0	1522.5	1303.1	1113.2	948.2	806.9	681.7	566.9	459.4	360.7	272.4
12.5°	1808.1	1559.3	1332.5	1135.2	964.4	820.1	693.5	575.7	466.8	365.2	276.8
10°	1843.5	1588.7	1356.1	1154.4	979.2	830.4	700.9	583.1	471.2	369.6	279.8
7.5°	1871.4	1612.3	1375.2	1167.6	989.5	839.3	708.2	587.5	475.6	372.5	284.2
5°	1892.1	1630.0	1388.5	1177.9	998.3	849.6	717.1	594.9	481.5	376.9	284.2
2.5°	1908.3	1643.2	1398.8	1186.8	1004.2	849.6	717.1	594.9	481.5	376.9	284.2
0°	1908.3	1643.2	1398.8	1186.8	1004.2	849.6	717.1	594.9	481.5	376.9	284.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.4	5.9	2.9	0.0
85°	16.2	10.3	5.9	0.0
82.5°	23.6	16.2	7.4	0.0
80°	30.9	20.6	10.3	0.0
77.5°	39.8	26.5	13.3	0.0
75°	47.1	30.9	16.2	0.0
72.5°	54.5	36.8	17.7	0.0
70°	61.8	41.2	20.6	0.0
67.5°	70.7	45.6	23.6	0.0
65°	78.0	51.5	25.0	0.0
62.5°	85.4	56.0	28.0	0.0
60°	92.8	60.4	29.4	0.0
57.5°	100.1	64.8	32.4	0.0
55°	107.5	70.7	35.3	0.0
52.5°	114.8	75.1	36.8	0.0
50°	122.2	79.5	38.3	0.0
47.5°	128.1	83.9	41.2	0.0
45°	135.5	88.3	42.7	0.0
42.5°	142.8	91.3	44.2	0.0
40°	148.7	95.7	45.6	0.0
37.5°	156.1	98.7	48.6	0.0
35°	162.0	103.1	50.1	0.0
32.5°	166.4	106.0	51.5	0.0
30°	172.3	109.0	53.0	0.0
27.5°	176.7	111.9	53.0	0.0
25°	181.1	114.8	54.5	0.0
22.5°	185.5	116.3	56.0	0.0
20°	189.9	119.3	57.4	0.0
17.5°	192.9	120.7	57.4	0.0
15°	195.8	122.2	60.4	0.0
12.5°	197.3	123.7	60.4	0.0
10°	200.2	126.6	60.4	0.0
7.5°	203.2	126.6	60.4	0.0
5°	203.2	126.6	60.4	0.0
2.5°	203.2	126.6	60.4	0.0
0°	203.2	126.6	60.4	0.0

(END OF REPORT)