

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: P624568

Luminaire Tested: **IFLD-M-SA4A-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624568
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

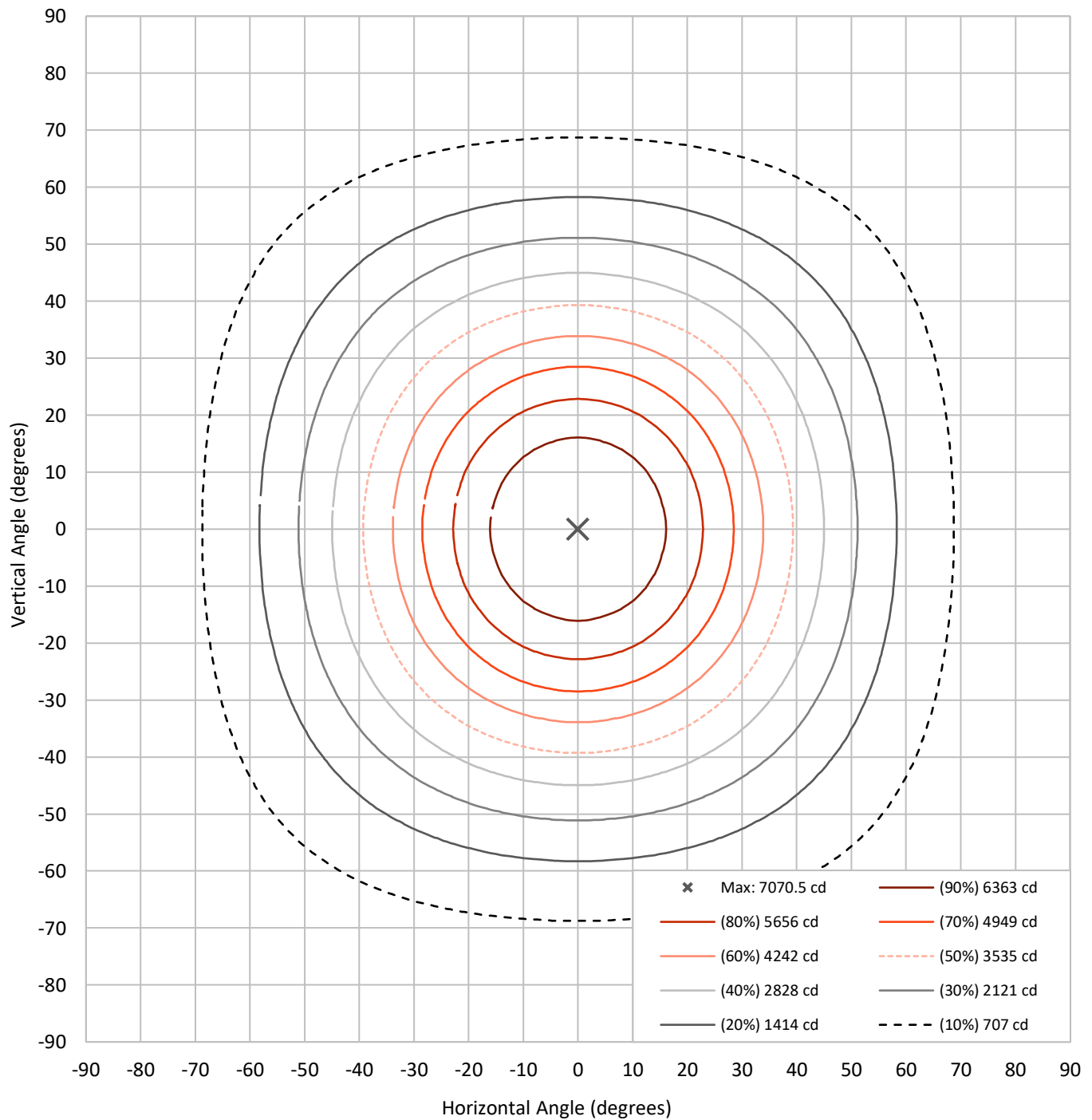
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12730.6 lumens	Max Intensity:	7070.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.0 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:	5508.4 lumens	Field Lumens:	9019.8 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		



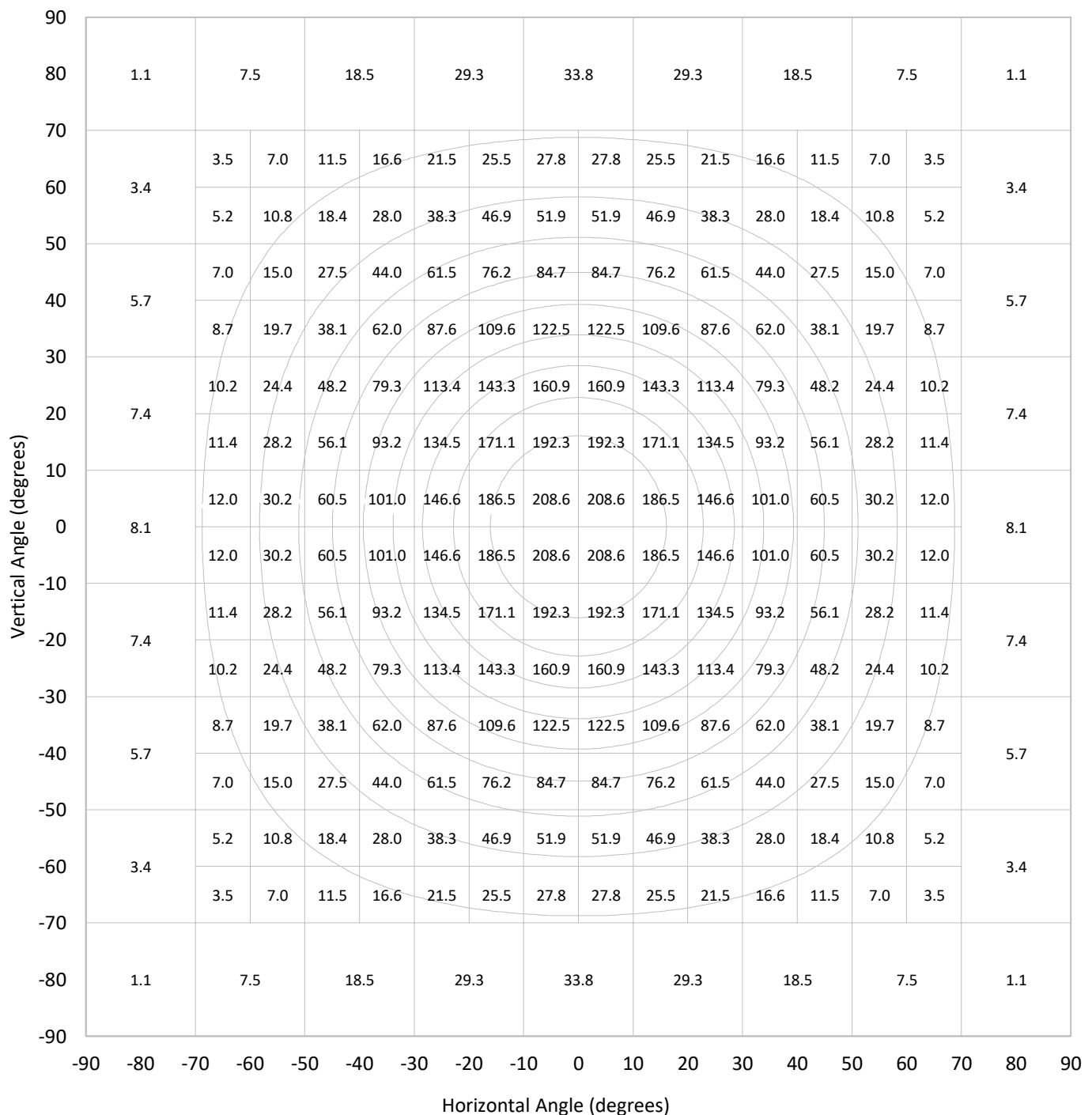
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Iso-Candela Plot



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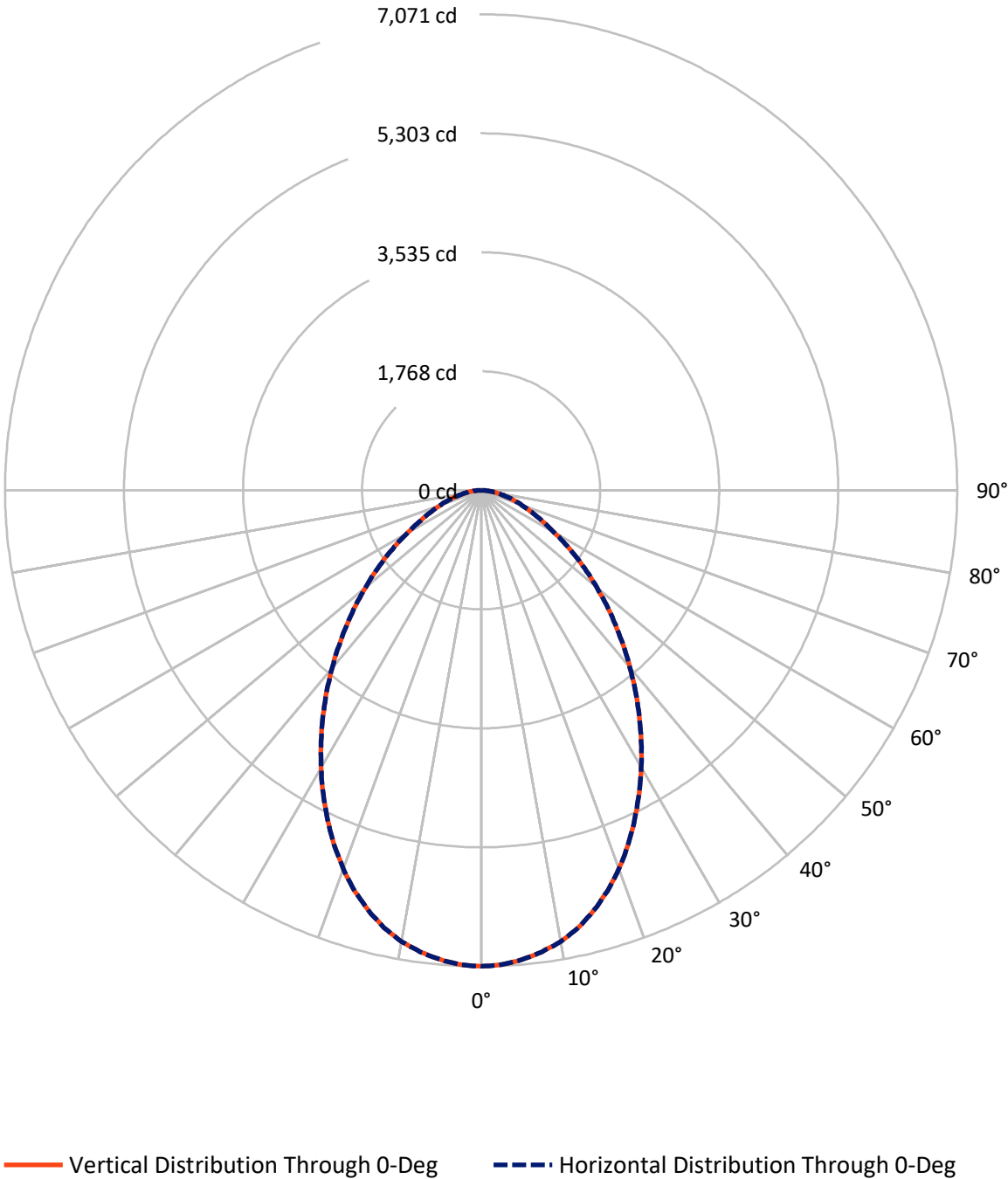
Lumen Table





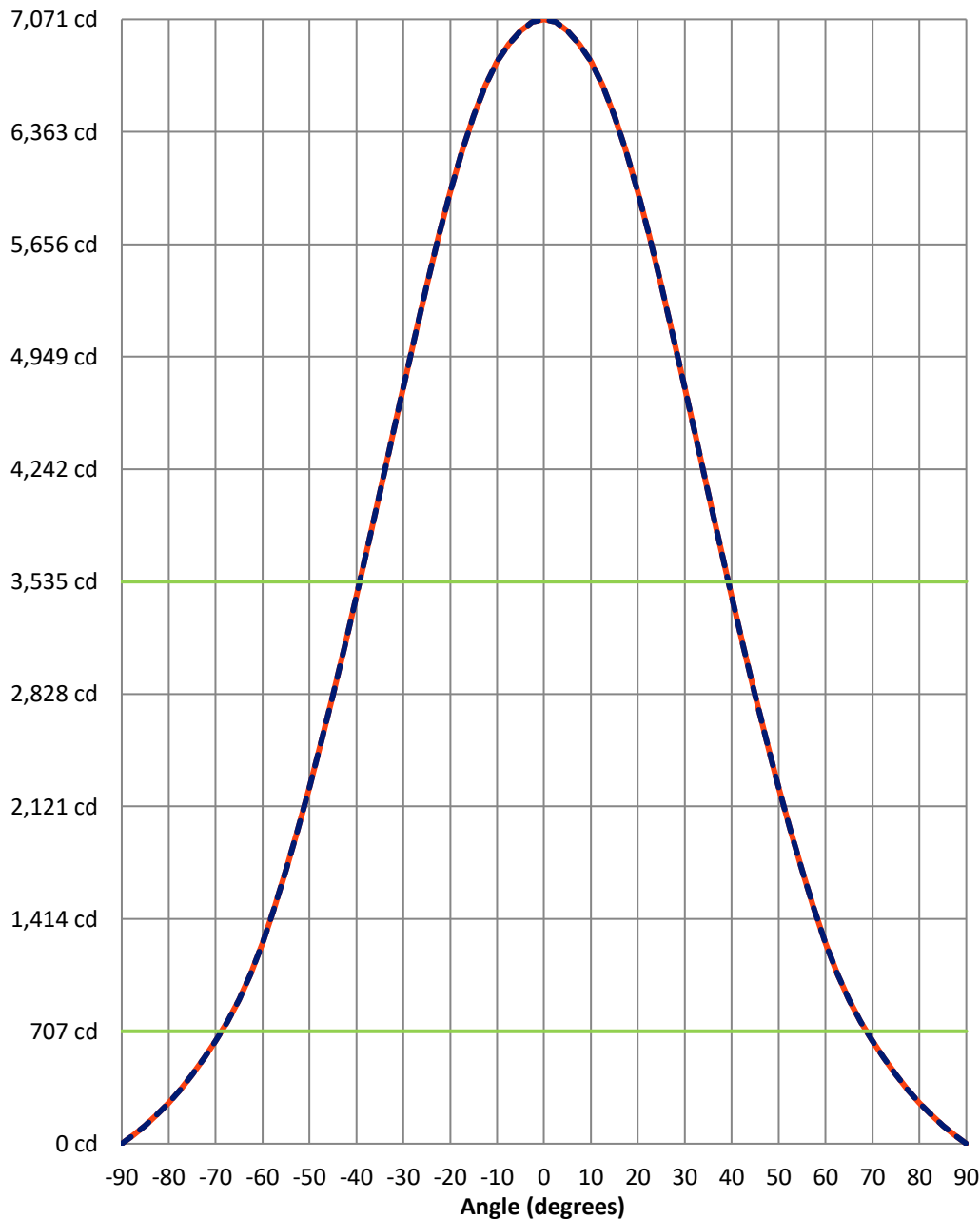
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5508.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 9019.8
Efficiency: 70.9%

Spill:

Lumens: 3710.8
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°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	51.8	51.8	50.4	49.1
85°	114.1	114.1	114.1	114.1	114.1	111.5	110.2	108.8	107.5	104.9	103.5
82.5°	183.2	183.2	183.2	183.2	180.5	177.9	176.5	173.9	171.2	167.2	163.3
80°	256.2	256.2	256.2	256.2	252.2	249.5	245.6	242.9	238.9	233.6	228.3
77.5°	339.8	339.8	339.8	335.8	333.2	329.2	325.2	319.9	314.6	307.9	300.0
75°	434.0	434.0	434.0	428.7	424.7	420.8	414.1	407.5	399.5	390.2	379.6
72.5°	536.2	536.2	536.2	529.6	525.6	519.0	511.0	501.7	492.4	480.5	467.2
70°	646.4	646.4	646.4	638.4	631.8	625.2	614.5	603.9	590.6	577.4	561.4
67.5°	765.9	765.9	765.9	756.6	748.6	739.3	727.4	714.1	698.2	679.6	661.0
65°	905.2	905.2	899.9	891.9	882.7	869.4	854.8	836.2	816.3	792.4	767.2
62.5°	1069.8	1069.8	1061.8	1052.5	1040.6	1023.3	1003.4	979.5	951.7	921.1	890.6
60°	1260.9	1260.9	1251.6	1239.7	1222.4	1201.2	1174.7	1144.1	1109.6	1071.1	1034.0
57.5°	1481.3	1481.3	1469.3	1453.4	1432.2	1405.6	1372.4	1333.9	1290.1	1242.4	1195.9
55°	1720.2	1720.2	1705.6	1687.0	1661.8	1629.9	1590.1	1545.0	1491.9	1437.5	1377.7
52.5°	1973.7	1973.7	1956.4	1935.2	1906.0	1868.8	1823.7	1770.6	1709.6	1645.9	1575.5
50°	2240.5	2240.5	2220.6	2196.7	2163.5	2119.7	2067.9	2006.9	1939.2	1864.9	1783.9
47.5°	2525.8	2525.8	2503.3	2475.4	2435.6	2385.2	2324.1	2253.8	2176.8	2093.2	2001.6
45°	2819.2	2819.2	2794.0	2762.1	2718.3	2661.2	2593.5	2525.8	2427.6	2330.7	2224.6
42.5°	3124.5	3124.5	3095.3	3059.4	3009.0	2946.6	2869.6	2782.0	2685.1	2576.3	2460.8
40°	3441.7	3441.7	3408.5	3367.4	3311.6	3239.9	3153.7	3055.4	2946.6	2825.8	2698.4
37.5°	3765.5	3765.5	3728.4	3683.3	3620.9	3541.2	3444.3	3335.5	3213.4	3079.3	2938.6
35°	4092.1	4092.1	4050.9	4001.8	3932.8	3845.2	3740.3	3619.5	3484.2	3338.2	3180.2
32.5°	4425.2	4425.2	4380.1	4324.3	4246.0	4149.1	4033.7	3902.3	3765.5	3595.7	3423.1
30°	4754.4	4754.4	4705.3	4644.2	4560.6	4454.4	4328.3	4183.6	4023.0	3849.2	3663.3
27.5°	5078.2	5065.0	5023.8	4958.8	4867.2	4754.4	4617.7	4461.1	4287.2	4096.0	3896.9
25°	5396.8	5382.2	5337.1	5265.4	5167.2	5043.7	4896.4	4729.2	4542.0	4340.3	4122.6
22.5°	5702.1	5686.1	5638.4	5561.4	5456.5	5322.5	5164.5	4985.3	4786.2	4569.9	4340.3
20°	5984.8	5967.5	5918.4	5837.5	5728.6	5586.6	5419.4	5226.9	5014.5	4786.2	4542.0
17.5°	6239.6	6222.4	6170.6	6087.0	5984.8	5826.8	5654.3	5451.2	5226.9	4985.3	4729.2
15°	6463.9	6445.4	6392.3	6308.7	6191.8	6043.2	5861.4	5654.3	5419.4	5164.5	4896.4
12.5°	6655.1	6636.5	6582.1	6498.5	6377.7	6229.0	6043.2	5826.8	5586.6	5322.5	5043.7
10°	6806.4	6787.8	6736.0	6656.4	6531.6	6377.7	6191.8	5984.8	5728.6	5456.5	5167.2
7.5°	6915.2	6898.0	6850.2	6770.6	6656.4	6498.5	6308.7	6087.0	5837.5	5561.4	5265.4
5°	6997.5	6977.6	6929.8	6850.2	6736.0	6582.1	6392.3	6170.6	5918.4	5638.4	5337.1
2.5°	7054.6	7030.7	6977.6	6898.0	6787.8	6636.5	6445.4	6222.4	5967.5	5686.1	5382.2
0°	7070.5	7054.6	6997.5	6915.2	6806.4	6655.1	6463.9	6239.6	5984.8	5702.1	5396.8

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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°	47.8	47.8	46.5	45.1	43.8	41.1	39.8	38.5	37.2	34.5	33.2
85°	100.9	98.2	95.6	92.9	88.9	86.3	82.3	79.6	75.7	71.7	67.7
82.5°	159.3	155.3	150.0	146.0	140.7	134.1	128.7	122.1	115.5	110.2	103.5
80°	223.0	216.3	209.7	203.1	195.1	187.1	179.2	171.2	161.9	152.6	143.3
77.5°	292.0	282.7	273.4	262.8	253.5	242.9	232.3	221.7	209.7	197.8	185.8
75°	369.0	357.0	343.8	330.5	318.6	304.0	289.4	274.8	258.8	244.2	228.3
72.5°	452.6	438.0	422.1	406.2	388.9	370.3	351.7	331.8	313.2	294.7	274.8
70°	542.9	525.6	505.7	485.8	464.6	442.0	419.4	395.5	371.6	347.8	323.9
67.5°	639.8	618.5	594.6	570.7	544.2	517.6	491.1	463.2	434.0	404.8	377.0
65°	743.3	716.7	688.9	658.3	627.8	597.3	565.4	532.2	499.1	464.6	434.0
62.5°	858.8	825.6	789.7	752.6	718.1	680.9	646.4	605.2	565.4	526.9	488.4
60°	992.8	949.0	905.2	858.8	815.0	767.2	724.7	679.6	634.4	590.6	545.5
57.5°	1142.8	1087.1	1034.0	978.2	919.8	866.7	812.3	757.9	707.5	655.7	606.6
55°	1312.7	1245.0	1178.6	1109.6	1041.9	975.6	906.5	845.5	783.1	724.7	667.6
52.5°	1498.5	1421.5	1339.2	1260.9	1174.7	1092.4	1015.4	938.4	865.4	795.1	730.0
50°	1697.6	1607.4	1513.1	1417.6	1319.3	1222.4	1129.5	1039.3	954.3	872.0	795.1
47.5°	1904.7	1802.5	1695.0	1586.1	1481.3	1363.1	1251.6	1149.4	1047.2	954.3	865.4
45°	2117.0	2001.6	1883.4	1760.0	1636.6	1509.1	1385.7	1260.9	1149.4	1039.3	938.4
42.5°	2336.0	2206.0	2074.6	1937.9	1801.1	1661.8	1522.4	1385.7	1251.6	1129.5	1015.4
40°	2561.7	2418.3	2268.4	2119.7	1973.7	1814.4	1661.8	1509.1	1363.1	1222.4	1092.4
37.5°	2787.3	2630.7	2468.8	2301.5	2134.3	1973.7	1801.1	1636.6	1481.3	1319.3	1174.7
35°	3014.3	2841.7	2666.5	2484.7	2301.5	2119.7	1937.9	1760.0	1586.1	1417.6	1260.9
32.5°	3242.6	3054.1	2860.3	2666.5	2468.8	2268.4	2074.6	1883.4	1695.0	1513.1	1339.2
30°	3466.9	3262.5	3054.1	2841.7	2630.7	2418.3	2206.0	2001.6	1802.5	1607.4	1421.5
27.5°	3685.9	3466.9	3242.6	3014.3	2787.3	2561.7	2336.0	2117.0	1904.7	1697.6	1498.5
25°	3896.9	3663.3	3423.1	3180.2	2938.6	2698.4	2460.8	2224.6	2001.6	1783.9	1575.5
22.5°	4096.0	3849.2	3595.7	3338.2	3079.3	2825.8	2576.3	2330.7	2093.2	1864.9	1645.9
20°	4287.2	4023.0	3765.5	3484.2	3213.4	2946.6	2685.1	2427.6	2176.8	1939.2	1709.6
17.5°	4461.1	4183.6	3902.3	3619.5	3335.5	3055.4	2782.0	2525.8	2253.8	2006.9	1770.6
15°	4617.7	4328.3	4033.7	3740.3	3444.3	3153.7	2869.6	2593.5	2324.1	2067.9	1823.7
12.5°	4754.4	4454.4	4149.1	3845.2	3541.2	3239.9	2946.6	2661.2	2385.2	2119.7	1868.8
10°	4867.2	4560.6	4246.0	3932.8	3620.9	3311.6	3009.0	2718.3	2435.6	2163.5	1906.0
7.5°	4958.8	4644.2	4324.3	4001.8	3683.3	3367.4	3059.4	2762.1	2475.4	2196.7	1935.2
5°	5023.8	4705.3	4380.1	4050.9	3728.4	3408.5	3095.3	2794.0	2503.3	2220.6	1956.4
2.5°	5065.0	4754.4	4425.2	4092.1	3765.5	3441.7	3124.5	2819.2	2525.8	2240.5	1973.7
0°	5078.2	4754.4	4425.2	4092.1	3765.5	3441.7	3124.5	2819.2	2525.8	2240.5	1973.7

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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°	31.9	29.2	26.5	25.2	22.6	21.2	18.6	15.9	14.6	11.9	9.3
85°	63.7	58.4	54.4	50.4	46.5	41.1	37.2	33.2	27.9	23.9	18.6
82.5°	96.9	90.3	83.6	77.0	70.3	63.7	55.7	49.1	42.5	35.8	27.9
80°	134.1	123.4	114.1	104.9	95.6	86.3	75.7	66.4	55.7	46.5	37.2
77.5°	172.5	160.6	147.3	134.1	120.8	108.8	95.6	83.6	71.7	58.4	46.5
75°	213.7	197.8	183.2	165.9	150.0	132.7	116.8	100.9	86.3	71.7	55.7
72.5°	256.2	236.3	216.3	197.8	177.9	157.9	139.4	119.5	100.9	83.6	66.4
70°	300.0	276.1	252.2	229.6	207.1	183.2	161.9	139.4	116.8	95.6	75.7
67.5°	346.4	318.6	290.7	261.5	236.3	209.7	183.2	157.9	132.7	108.8	86.3
65°	396.9	363.7	329.2	298.6	265.5	236.3	207.1	177.9	150.0	120.8	95.6
62.5°	448.6	410.1	371.6	333.2	298.6	261.5	229.6	197.8	165.9	134.1	104.9
60°	501.7	457.9	414.1	371.6	329.2	290.7	252.2	216.3	183.2	147.3	114.1
57.5°	556.1	507.0	457.9	410.1	363.7	318.6	276.1	236.3	197.8	160.6	123.4
55°	611.9	556.1	501.7	448.6	396.9	346.4	300.0	256.2	213.7	172.5	134.1
52.5°	667.6	606.6	545.5	488.4	434.0	377.0	323.9	274.8	228.3	185.8	143.3
50°	724.7	655.7	590.6	526.9	464.6	404.8	347.8	294.7	244.2	197.8	152.6
47.5°	783.1	707.5	634.4	565.4	499.1	434.0	371.6	313.2	258.8	209.7	161.9
45°	845.5	757.9	679.6	605.2	532.2	463.2	395.5	331.8	274.8	221.7	171.2
42.5°	906.5	812.3	724.7	646.4	565.4	491.1	419.4	351.7	289.4	232.3	179.2
40°	975.6	866.7	767.2	680.9	597.3	517.6	442.0	370.3	304.0	242.9	187.1
37.5°	1041.9	919.8	815.0	718.1	627.8	544.2	464.6	388.9	318.6	253.5	195.1
35°	1109.6	978.2	858.8	752.6	658.3	570.7	485.8	406.2	330.5	262.8	203.1
32.5°	1178.6	1034.0	905.2	789.7	688.9	594.6	505.7	422.1	343.8	273.4	209.7
30°	1245.0	1087.1	949.0	825.6	716.7	618.5	525.6	438.0	357.0	282.7	216.3
27.5°	1312.7	1142.8	992.8	858.8	743.3	639.8	542.9	452.6	369.0	292.0	223.0
25°	1377.7	1195.9	1034.0	890.6	767.2	661.0	561.4	467.2	379.6	300.0	228.3
22.5°	1437.5	1242.4	1071.1	921.1	792.4	679.6	577.4	480.5	390.2	307.9	233.6
20°	1491.9	1290.1	1109.6	951.7	816.3	698.2	590.6	492.4	399.5	314.6	238.9
17.5°	1545.0	1333.9	1144.1	979.5	836.2	714.1	603.9	501.7	407.5	319.9	242.9
15°	1590.1	1372.4	1174.7	1003.4	854.8	727.4	614.5	511.0	414.1	325.2	245.6
12.5°	1629.9	1405.6	1201.2	1023.3	869.4	739.3	625.2	519.0	420.8	329.2	249.5
10°	1661.8	1432.2	1222.4	1040.6	882.7	748.6	631.8	525.6	424.7	333.2	252.2
7.5°	1687.0	1453.4	1239.7	1052.5	891.9	756.6	638.4	529.6	428.7	335.8	256.2
5°	1705.6	1469.3	1251.6	1061.8	899.9	765.9	646.4	536.2	434.0	339.8	256.2
2.5°	1720.2	1481.3	1260.9	1069.8	905.2	765.9	646.4	536.2	434.0	339.8	256.2
0°	1720.2	1481.3	1260.9	1069.8	905.2	765.9	646.4	536.2	434.0	339.8	256.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.6	5.3	2.7	0.0
85°	14.6	9.3	5.3	0.0
82.5°	21.2	14.6	6.6	0.0
80°	27.9	18.6	9.3	0.0
77.5°	35.8	23.9	11.9	0.0
75°	42.5	27.9	14.6	0.0
72.5°	49.1	33.2	15.9	0.0
70°	55.7	37.2	18.6	0.0
67.5°	63.7	41.1	21.2	0.0
65°	70.3	46.5	22.6	0.0
62.5°	77.0	50.4	25.2	0.0
60°	83.6	54.4	26.5	0.0
57.5°	90.3	58.4	29.2	0.0
55°	96.9	63.7	31.9	0.0
52.5°	103.5	67.7	33.2	0.0
50°	110.2	71.7	34.5	0.0
47.5°	115.5	75.7	37.2	0.0
45°	122.1	79.6	38.5	0.0
42.5°	128.7	82.3	39.8	0.0
40°	134.1	86.3	41.1	0.0
37.5°	140.7	88.9	43.8	0.0
35°	146.0	92.9	45.1	0.0
32.5°	150.0	95.6	46.5	0.0
30°	155.3	98.2	47.8	0.0
27.5°	159.3	100.9	47.8	0.0
25°	163.3	103.5	49.1	0.0
22.5°	167.2	104.9	50.4	0.0
20°	171.2	107.5	51.8	0.0
17.5°	173.9	108.8	51.8	0.0
15°	176.5	110.2	54.4	0.0
12.5°	177.9	111.5	54.4	0.0
10°	180.5	114.1	54.4	0.0
7.5°	183.2	114.1	54.4	0.0
5°	183.2	114.1	54.4	0.0
2.5°	183.2	114.1	54.4	0.0
0°	183.2	114.1	54.4	0.0

(END OF REPORT)