

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: P624584

Luminaire Tested: **IFLD-S-SA2C-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624584
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

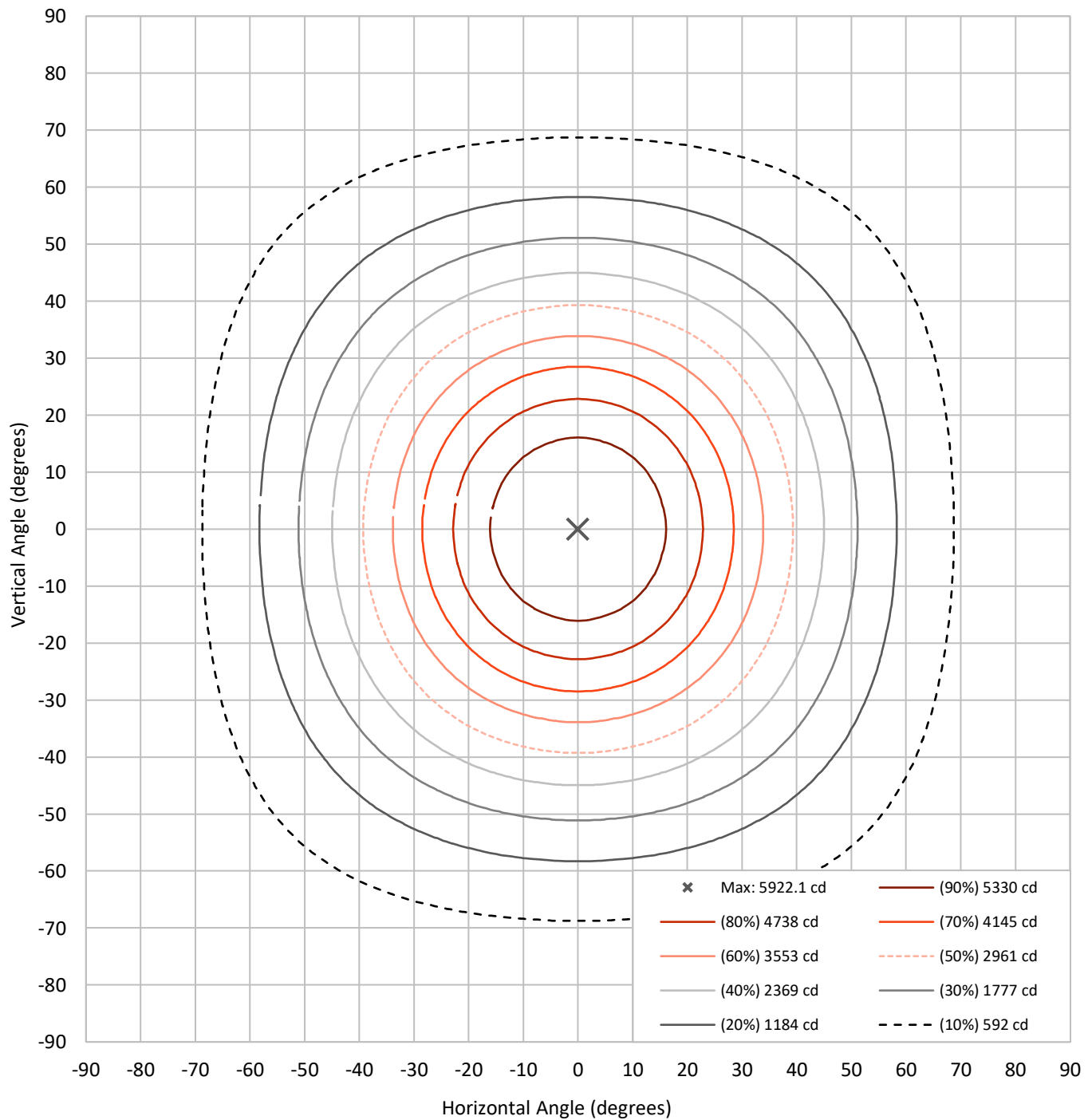
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10662.8 lumens	Max Intensity:	5922.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4613.7 lumens	Field Lumens:	7554.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	108.2		
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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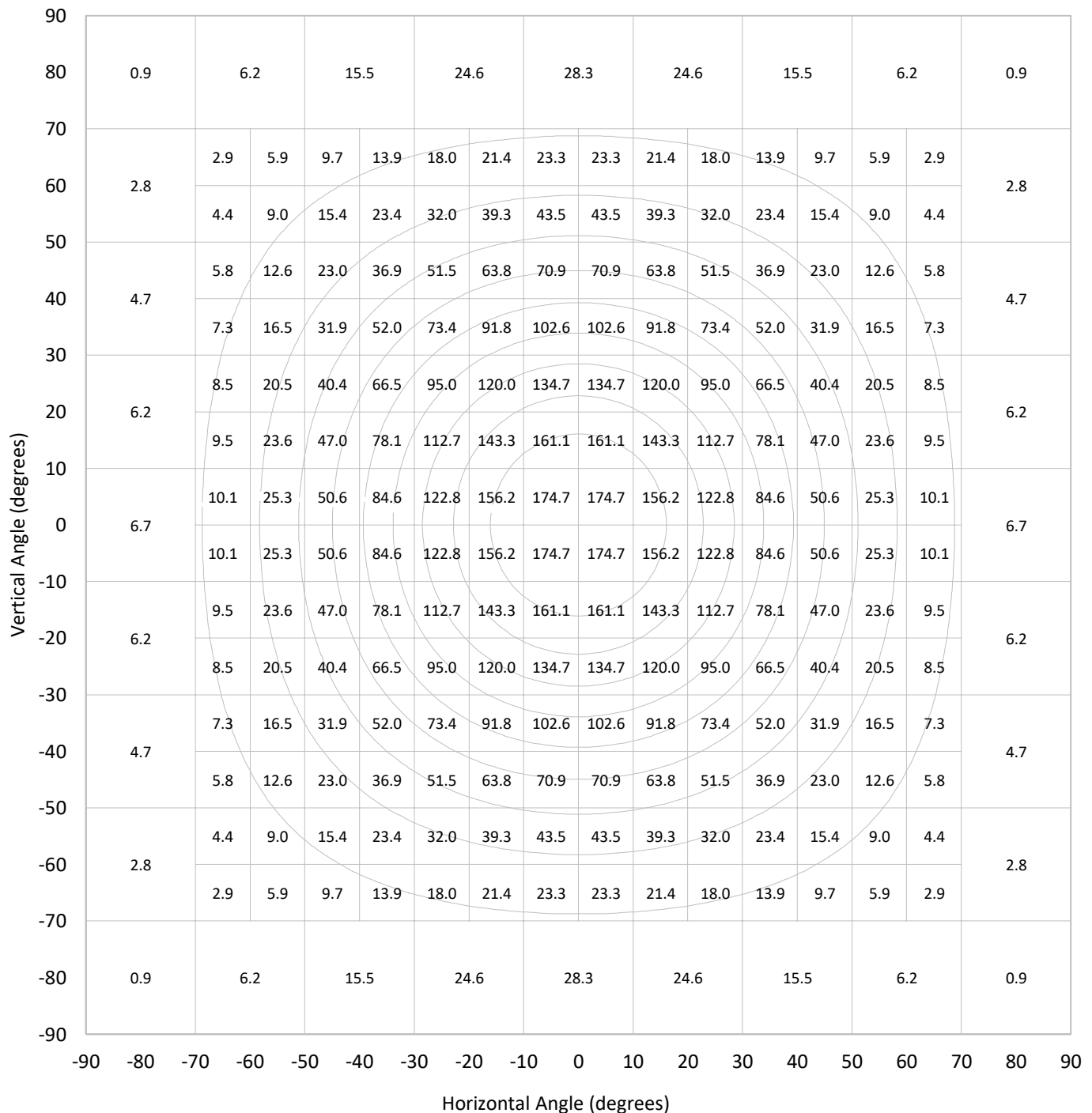
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Iso-Candela Plot



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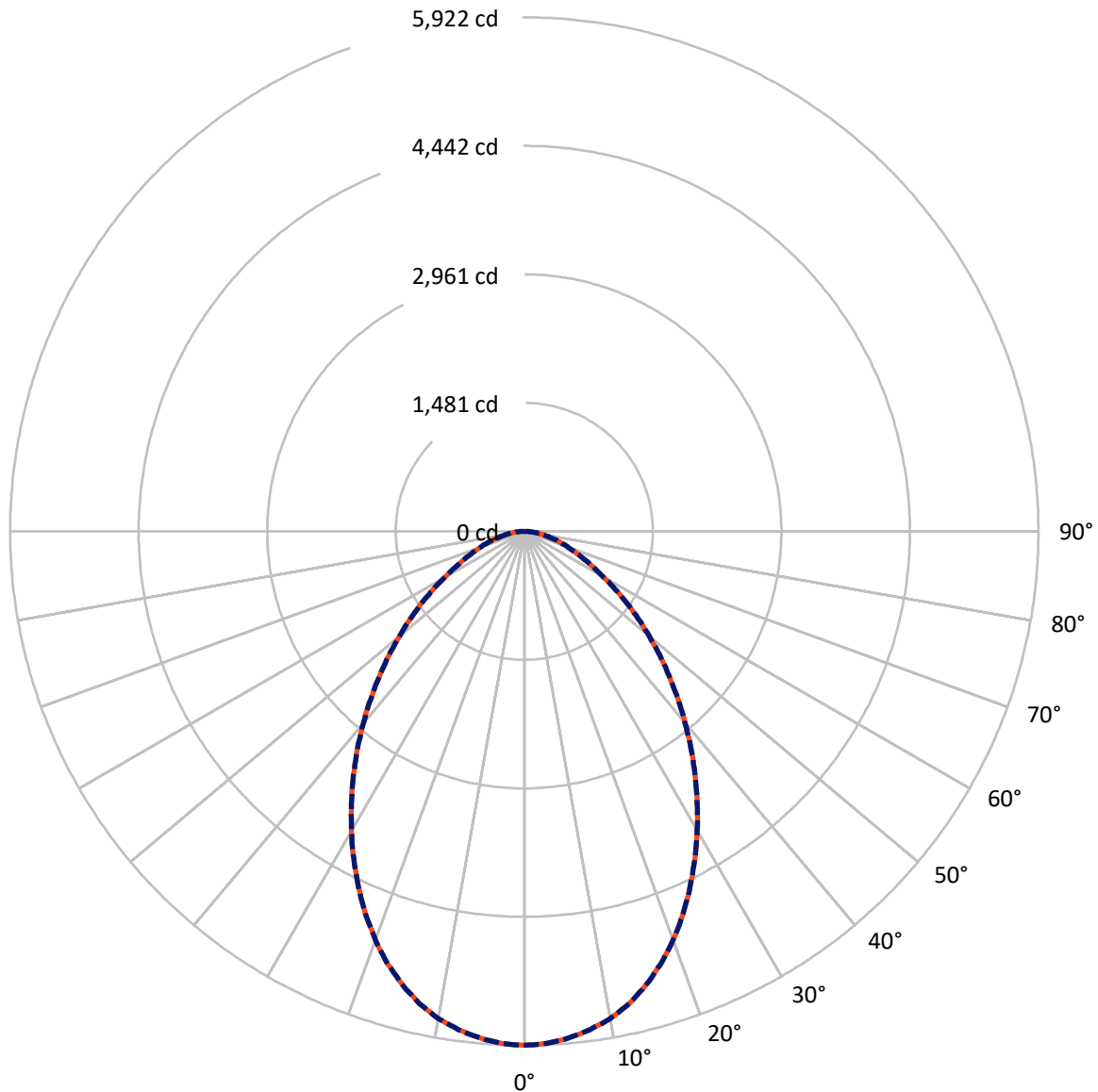
Lumen Table



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Luminous Intensity Polar Plot



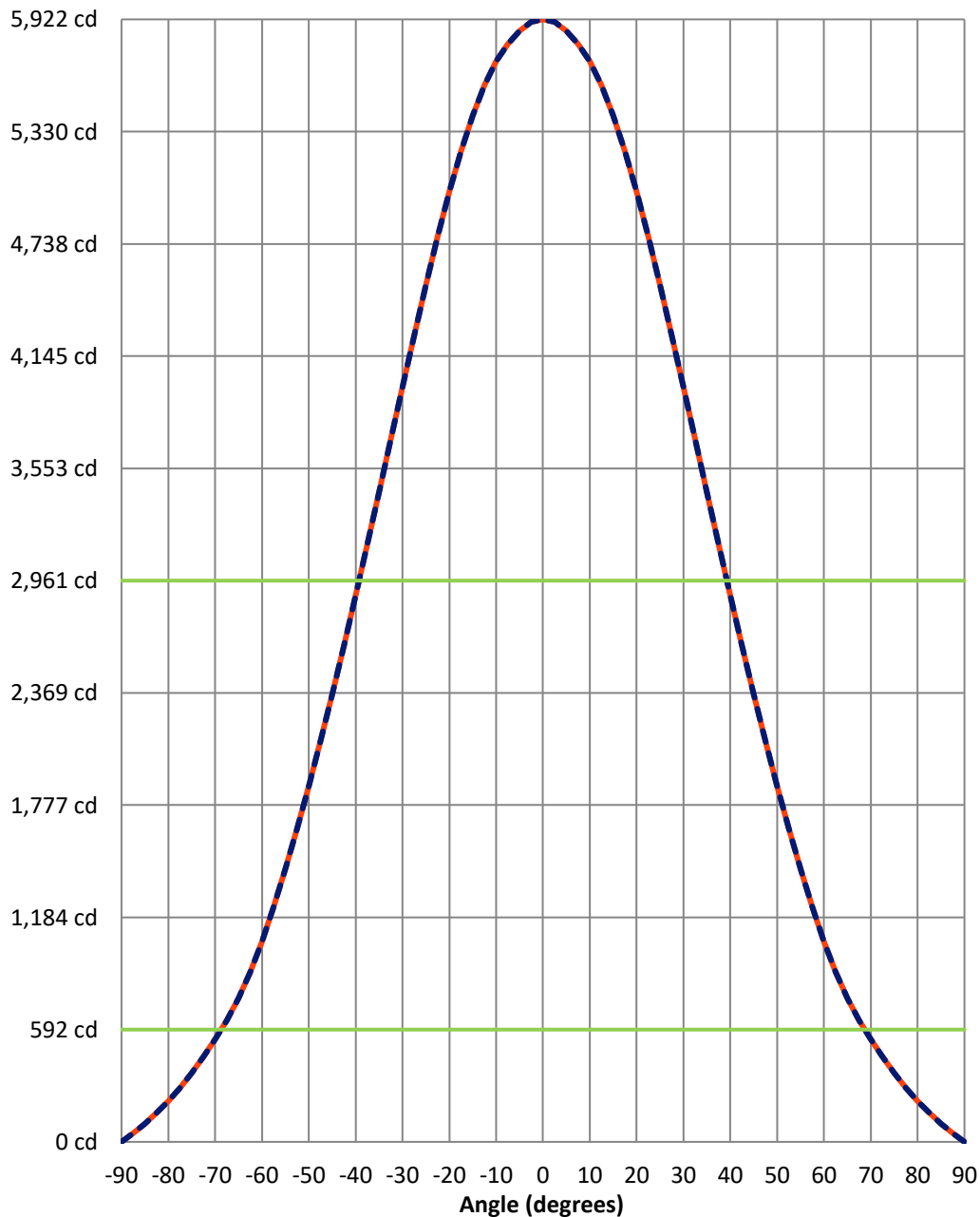
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	4613.7
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	7554.8
Efficiency:	70.9%

Spill:

Lumens:	3108.1
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°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	43.4	43.4	42.2	41.1
85°	95.6	95.6	95.6	95.6	95.6	93.4	92.3	91.2	90.0	87.8	86.7
82.5°	153.4	153.4	153.4	153.4	151.2	149.0	147.9	145.6	143.4	140.1	136.7
80°	214.6	214.6	214.6	214.6	211.2	209.0	205.7	203.4	200.1	195.7	191.2
77.5°	284.6	284.6	284.6	281.3	279.0	275.7	272.4	267.9	263.5	257.9	251.2
75°	363.5	363.5	363.5	359.1	355.7	352.4	346.9	341.3	334.6	326.8	317.9
72.5°	449.1	449.1	449.1	443.6	440.2	434.7	428.0	420.2	412.4	402.4	391.3
70°	541.4	541.4	541.4	534.7	529.2	523.6	514.7	505.8	494.7	483.6	470.3
67.5°	641.5	641.5	641.5	633.7	627.0	619.2	609.2	598.1	584.8	569.2	553.6
65°	758.2	758.2	753.7	747.1	739.3	728.2	715.9	700.4	683.7	663.7	642.6
62.5°	896.0	896.0	889.4	881.6	871.6	857.1	840.5	820.4	797.1	771.5	746.0
60°	1056.1	1056.1	1048.3	1038.3	1023.9	1006.1	983.9	958.3	929.4	897.2	866.0
57.5°	1240.7	1240.7	1230.7	1217.3	1199.5	1177.3	1149.5	1117.3	1080.6	1040.6	1001.7
55°	1440.8	1440.8	1428.5	1413.0	1391.9	1365.2	1331.8	1294.0	1249.6	1204.0	1154.0
52.5°	1653.1	1653.1	1638.7	1620.9	1596.4	1565.3	1527.5	1483.0	1431.9	1378.5	1319.6
50°	1876.6	1876.6	1859.9	1839.9	1812.1	1775.4	1732.0	1680.9	1624.2	1562.0	1494.1
47.5°	2115.6	2115.6	2096.7	2073.3	2040.0	1997.7	1946.6	1887.7	1823.2	1753.2	1676.5
45°	2361.3	2361.3	2340.2	2313.5	2276.8	2229.0	2172.3	2115.6	2033.3	1952.2	1863.2
42.5°	2617.0	2617.0	2592.5	2562.5	2520.2	2468.0	2403.5	2330.1	2249.0	2157.8	2061.1
40°	2882.7	2882.7	2854.9	2820.4	2773.7	2713.7	2641.4	2559.2	2468.0	2366.8	2260.1
37.5°	3153.9	3153.9	3122.8	3085.0	3032.7	2966.0	2884.9	2793.7	2691.5	2579.2	2461.3
35°	3427.4	3427.4	3392.9	3351.8	3294.0	3220.6	3132.8	3031.6	2918.2	2796.0	2663.7
32.5°	3706.4	3706.4	3668.6	3622.0	3556.4	3475.2	3378.5	3268.4	3153.9	3011.6	2867.1
30°	3982.1	3982.1	3941.0	3889.9	3819.8	3730.9	3625.3	3504.1	3369.6	3224.0	3068.3
27.5°	4253.4	4242.3	4207.8	4153.3	4076.6	3982.1	3867.6	3736.5	3590.8	3430.7	3264.0
25°	4520.2	4508.0	4470.2	4410.2	4327.9	4224.5	4101.1	3961.0	3804.3	3635.3	3453.0
22.5°	4775.9	4762.6	4722.5	4658.1	4570.2	4458.0	4325.7	4175.6	4008.8	3827.6	3635.3
20°	5012.7	4998.2	4957.1	4889.3	4798.1	4679.2	4539.1	4377.9	4200.0	4008.8	3804.3
17.5°	5226.1	5211.7	5168.3	5098.3	5012.7	4880.4	4735.9	4565.8	4377.9	4175.6	3961.0
15°	5414.0	5398.5	5354.0	5284.0	5186.1	5061.6	4909.3	4735.9	4539.1	4325.7	4101.1
12.5°	5574.1	5558.6	5513.0	5442.9	5341.8	5217.3	5061.6	4880.4	4679.2	4458.0	4224.5
10°	5700.9	5685.3	5641.9	5575.2	5470.7	5341.8	5186.1	5012.7	4798.1	4570.2	4327.9
7.5°	5792.0	5777.6	5737.5	5670.8	5575.2	5442.9	5284.0	5098.3	4889.3	4658.1	4410.2
5°	5860.9	5844.3	5804.2	5737.5	5641.9	5513.0	5354.0	5168.3	4957.1	4722.5	4470.2
2.5°	5908.7	5888.7	5844.3	5777.6	5685.3	5558.6	5398.5	5211.7	4998.2	4762.6	4508.0
0°	5922.1	5908.7	5860.9	5792.0	5700.9	5574.1	5414.0	5226.1	5012.7	4775.9	4520.2

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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°	40.0	40.0	38.9	37.8	36.7	34.5	33.4	32.2	31.1	28.9	27.8
85°	84.5	82.3	80.0	77.8	74.5	72.3	68.9	66.7	63.4	60.0	56.7
82.5°	133.4	130.1	125.6	122.3	117.8	112.3	107.8	102.3	96.7	92.3	86.7
80°	186.8	181.2	175.7	170.1	163.4	156.8	150.1	143.4	135.6	127.8	120.1
77.5°	244.6	236.8	229.0	220.1	212.3	203.4	194.5	185.7	175.7	165.6	155.6
75°	309.1	299.1	287.9	276.8	266.8	254.6	242.4	230.1	216.8	204.6	191.2
72.5°	379.1	366.9	353.5	340.2	325.7	310.2	294.6	277.9	262.4	246.8	230.1
70°	454.7	440.2	423.6	406.9	389.1	370.2	351.3	331.3	311.3	291.3	271.3
67.5°	535.8	518.1	498.0	478.0	455.8	433.6	411.3	388.0	363.5	339.1	315.7
65°	622.6	600.3	577.0	551.4	525.8	500.3	473.6	445.8	418.0	389.1	363.5
62.5°	719.3	691.5	661.5	630.3	601.4	570.3	541.4	506.9	473.6	441.3	409.1
60°	831.6	794.9	758.2	719.3	682.6	642.6	607.0	569.2	531.4	494.7	456.9
57.5°	957.2	910.5	866.0	819.3	770.4	725.9	680.4	634.8	592.5	549.2	508.1
55°	1099.5	1042.8	987.2	929.4	872.7	817.1	759.3	708.2	655.9	607.0	559.2
52.5°	1255.1	1190.6	1121.7	1056.1	983.9	914.9	850.5	786.0	724.8	665.9	611.4
50°	1421.9	1346.3	1267.3	1187.3	1105.0	1023.9	946.1	870.5	799.3	730.4	665.9
47.5°	1595.3	1509.7	1419.7	1328.5	1240.7	1141.7	1048.3	962.7	877.1	799.3	724.8
45°	1773.2	1676.5	1577.5	1474.1	1370.7	1264.0	1160.6	1056.1	962.7	870.5	786.0
42.5°	1956.6	1847.7	1737.6	1623.1	1508.6	1391.9	1275.1	1160.6	1048.3	946.1	850.5
40°	2145.6	2025.5	1899.9	1775.4	1653.1	1519.7	1391.9	1264.0	1141.7	1023.9	914.9
37.5°	2334.6	2203.4	2067.8	1927.7	1787.6	1653.1	1508.6	1370.7	1240.7	1105.0	983.9
35°	2524.7	2380.2	2233.4	2081.1	1927.7	1775.4	1623.1	1474.1	1328.5	1187.3	1056.1
32.5°	2715.9	2558.0	2395.7	2233.4	2067.8	1899.9	1737.6	1577.5	1419.7	1267.3	1121.7
30°	2903.8	2732.6	2558.0	2380.2	2203.4	2025.5	1847.7	1676.5	1509.7	1346.3	1190.6
27.5°	3087.2	2903.8	2715.9	2524.7	2334.6	2145.6	1956.6	1773.2	1595.3	1421.9	1255.1
25°	3264.0	3068.3	2867.1	2663.7	2461.3	2260.1	2061.1	1863.2	1676.5	1494.1	1319.6
22.5°	3430.7	3224.0	3011.6	2796.0	2579.2	2366.8	2157.8	1952.2	1753.2	1562.0	1378.5
20°	3590.8	3369.6	3153.9	2918.2	2691.5	2468.0	2249.0	2033.3	1823.2	1624.2	1431.9
17.5°	3736.5	3504.1	3268.4	3031.6	2793.7	2559.2	2330.1	2115.6	1887.7	1680.9	1483.0
15°	3867.6	3625.3	3378.5	3132.8	2884.9	2641.4	2403.5	2172.3	1946.6	1732.0	1527.5
12.5°	3982.1	3730.9	3475.2	3220.6	2966.0	2713.7	2468.0	2229.0	1997.7	1775.4	1565.3
10°	4076.6	3819.8	3556.4	3294.0	3032.7	2773.7	2520.2	2276.8	2040.0	1812.1	1596.4
7.5°	4153.3	3889.9	3622.0	3351.8	3085.0	2820.4	2562.5	2313.5	2073.3	1839.9	1620.9
5°	4207.8	3941.0	3668.6	3392.9	3122.8	2854.9	2592.5	2340.2	2096.7	1859.9	1638.7
2.5°	4242.3	3982.1	3706.4	3427.4	3153.9	2882.7	2617.0	2361.3	2115.6	1876.6	1653.1
0°	4253.4	3982.1	3706.4	3427.4	3153.9	2882.7	2617.0	2361.3	2115.6	1876.6	1653.1

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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°	26.7	24.5	22.2	21.1	18.9	17.8	15.6	13.3	12.2	10.0	7.8
85°	53.4	48.9	45.6	42.2	38.9	34.5	31.1	27.8	23.3	20.0	15.6
82.5°	81.2	75.6	70.0	64.5	58.9	53.4	46.7	41.1	35.6	30.0	23.3
80°	112.3	103.4	95.6	87.8	80.0	72.3	63.4	55.6	46.7	38.9	31.1
77.5°	144.5	134.5	123.4	112.3	101.2	91.2	80.0	70.0	60.0	48.9	38.9
75°	179.0	165.6	153.4	139.0	125.6	111.2	97.8	84.5	72.3	60.0	46.7
72.5°	214.6	197.9	181.2	165.6	149.0	132.3	116.7	100.1	84.5	70.0	55.6
70°	251.2	231.2	211.2	192.3	173.4	153.4	135.6	116.7	97.8	80.0	63.4
67.5°	290.2	266.8	243.5	219.0	197.9	175.7	153.4	132.3	111.2	91.2	72.3
65°	332.4	304.6	275.7	250.1	222.3	197.9	173.4	149.0	125.6	101.2	80.0
62.5°	375.8	343.5	311.3	279.0	250.1	219.0	192.3	165.6	139.0	112.3	87.8
60°	420.2	383.5	346.9	311.3	275.7	243.5	211.2	181.2	153.4	123.4	95.6
57.5°	465.8	424.7	383.5	343.5	304.6	266.8	231.2	197.9	165.6	134.5	103.4
55°	512.5	465.8	420.2	375.8	332.4	290.2	251.2	214.6	179.0	144.5	112.3
52.5°	559.2	508.1	456.9	409.1	363.5	315.7	271.3	230.1	191.2	155.6	120.1
50°	607.0	549.2	494.7	441.3	389.1	339.1	291.3	246.8	204.6	165.6	127.8
47.5°	655.9	592.5	531.4	473.6	418.0	363.5	311.3	262.4	216.8	175.7	135.6
45°	708.2	634.8	569.2	506.9	445.8	388.0	331.3	277.9	230.1	185.7	143.4
42.5°	759.3	680.4	607.0	541.4	473.6	411.3	351.3	294.6	242.4	194.5	150.1
40°	817.1	725.9	642.6	570.3	500.3	433.6	370.2	310.2	254.6	203.4	156.8
37.5°	872.7	770.4	682.6	601.4	525.8	455.8	389.1	325.7	266.8	212.3	163.4
35°	929.4	819.3	719.3	630.3	551.4	478.0	406.9	340.2	276.8	220.1	170.1
32.5°	987.2	866.0	758.2	661.5	577.0	498.0	423.6	353.5	287.9	229.0	175.7
30°	1042.8	910.5	794.9	691.5	600.3	518.1	440.2	366.9	299.1	236.8	181.2
27.5°	1099.5	957.2	831.6	719.3	622.6	535.8	454.7	379.1	309.1	244.6	186.8
25°	1154.0	1001.7	866.0	746.0	642.6	553.6	470.3	391.3	317.9	251.2	191.2
22.5°	1204.0	1040.6	897.2	771.5	663.7	569.2	483.6	402.4	326.8	257.9	195.7
20°	1249.6	1080.6	929.4	797.1	683.7	584.8	494.7	412.4	334.6	263.5	200.1
17.5°	1294.0	1117.3	958.3	820.4	700.4	598.1	505.8	420.2	341.3	267.9	203.4
15°	1331.8	1149.5	983.9	840.5	715.9	609.2	514.7	428.0	346.9	272.4	205.7
12.5°	1365.2	1177.3	1006.1	857.1	728.2	619.2	523.6	434.7	352.4	275.7	209.0
10°	1391.9	1199.5	1023.9	871.6	739.3	627.0	529.2	440.2	355.7	279.0	211.2
7.5°	1413.0	1217.3	1038.3	881.6	747.1	633.7	534.7	443.6	359.1	281.3	214.6
5°	1428.5	1230.7	1048.3	889.4	753.7	641.5	541.4	449.1	363.5	284.6	214.6
2.5°	1440.8	1240.7	1056.1	896.0	758.2	641.5	541.4	449.1	363.5	284.6	214.6
0°	1440.8	1240.7	1056.1	896.0	758.2	641.5	541.4	449.1	363.5	284.6	214.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.6	4.4	2.2	0.0
85°	12.2	7.8	4.4	0.0
82.5°	17.8	12.2	5.6	0.0
80°	23.3	15.6	7.8	0.0
77.5°	30.0	20.0	10.0	0.0
75°	35.6	23.3	12.2	0.0
72.5°	41.1	27.8	13.3	0.0
70°	46.7	31.1	15.6	0.0
67.5°	53.4	34.5	17.8	0.0
65°	58.9	38.9	18.9	0.0
62.5°	64.5	42.2	21.1	0.0
60°	70.0	45.6	22.2	0.0
57.5°	75.6	48.9	24.5	0.0
55°	81.2	53.4	26.7	0.0
52.5°	86.7	56.7	27.8	0.0
50°	92.3	60.0	28.9	0.0
47.5°	96.7	63.4	31.1	0.0
45°	102.3	66.7	32.2	0.0
42.5°	107.8	68.9	33.4	0.0
40°	112.3	72.3	34.5	0.0
37.5°	117.8	74.5	36.7	0.0
35°	122.3	77.8	37.8	0.0
32.5°	125.6	80.0	38.9	0.0
30°	130.1	82.3	40.0	0.0
27.5°	133.4	84.5	40.0	0.0
25°	136.7	86.7	41.1	0.0
22.5°	140.1	87.8	42.2	0.0
20°	143.4	90.0	43.4	0.0
17.5°	145.6	91.2	43.4	0.0
15°	147.9	92.3	45.6	0.0
12.5°	149.0	93.4	45.6	0.0
10°	151.2	95.6	45.6	0.0
7.5°	153.4	95.6	45.6	0.0
5°	153.4	95.6	45.6	0.0
2.5°	153.4	95.6	45.6	0.0
0°	153.4	95.6	45.6	0.0

(END OF REPORT)