

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: P623956

Luminaire Tested: **IFLD-S-SA2A-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623956
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

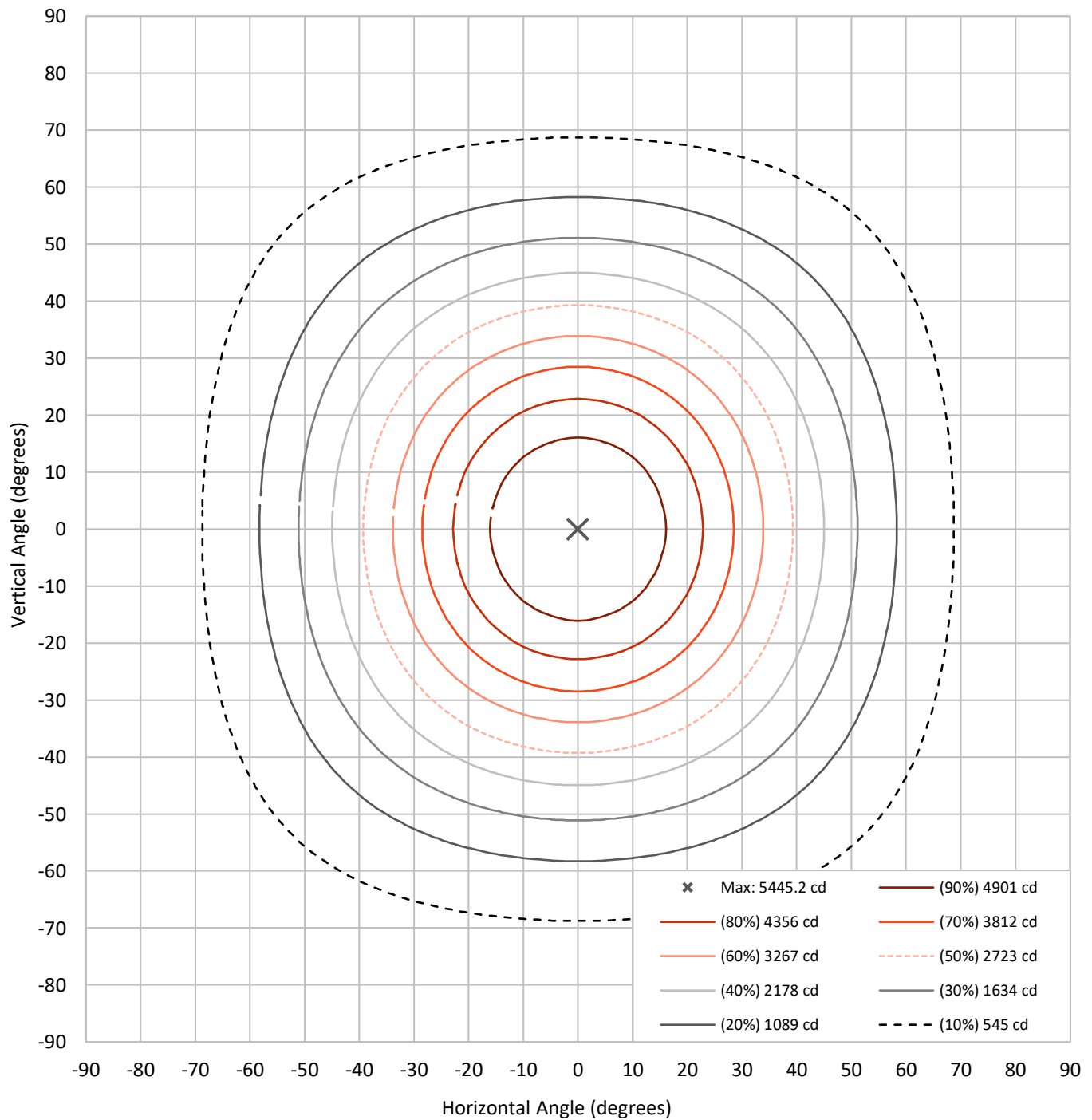
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9804.3 lumens	Max Intensity:	5445.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	153.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4242.2 lumens	Field Lumens:	6946.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	63.8		
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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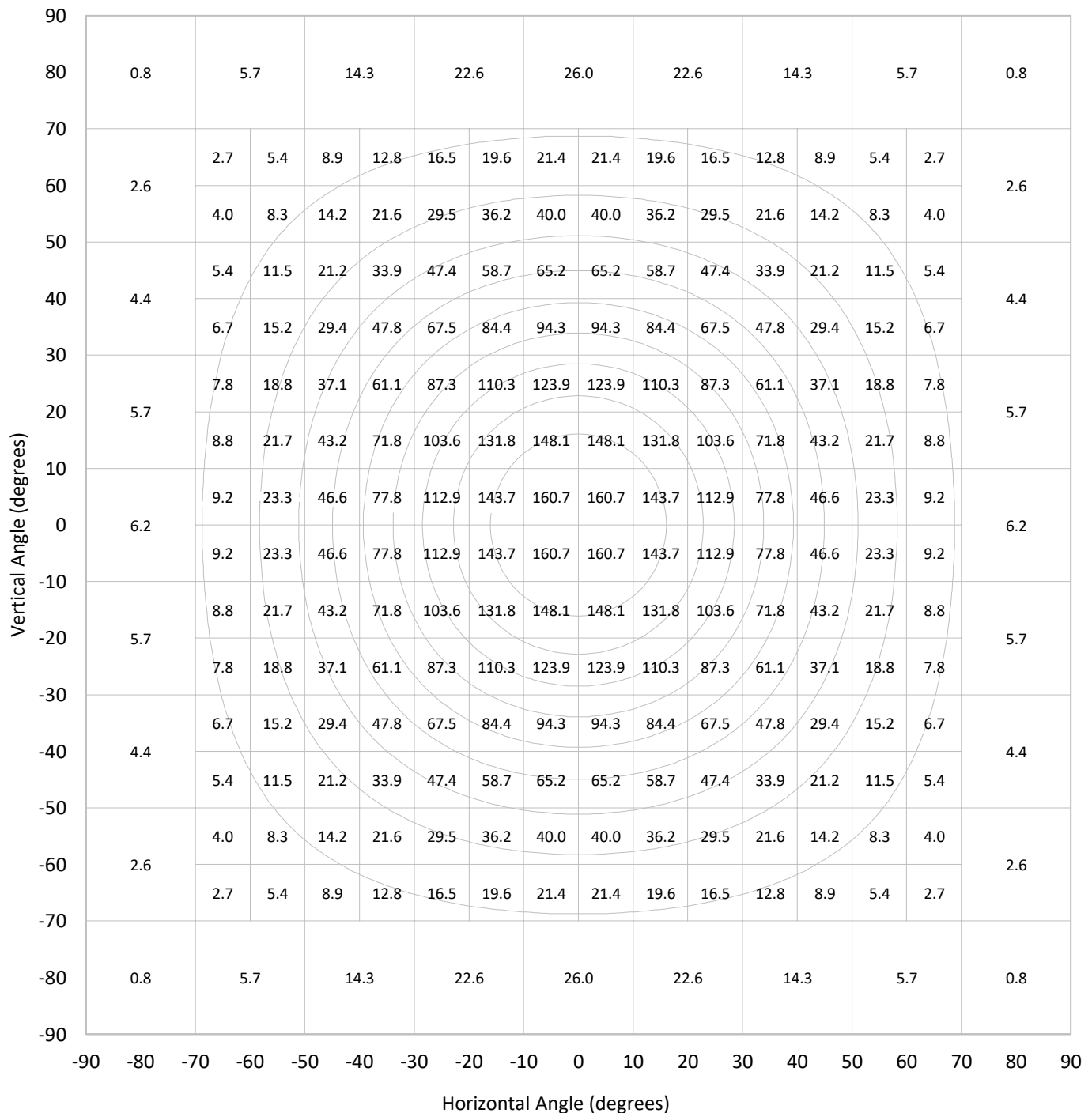
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Iso-Candela Plot



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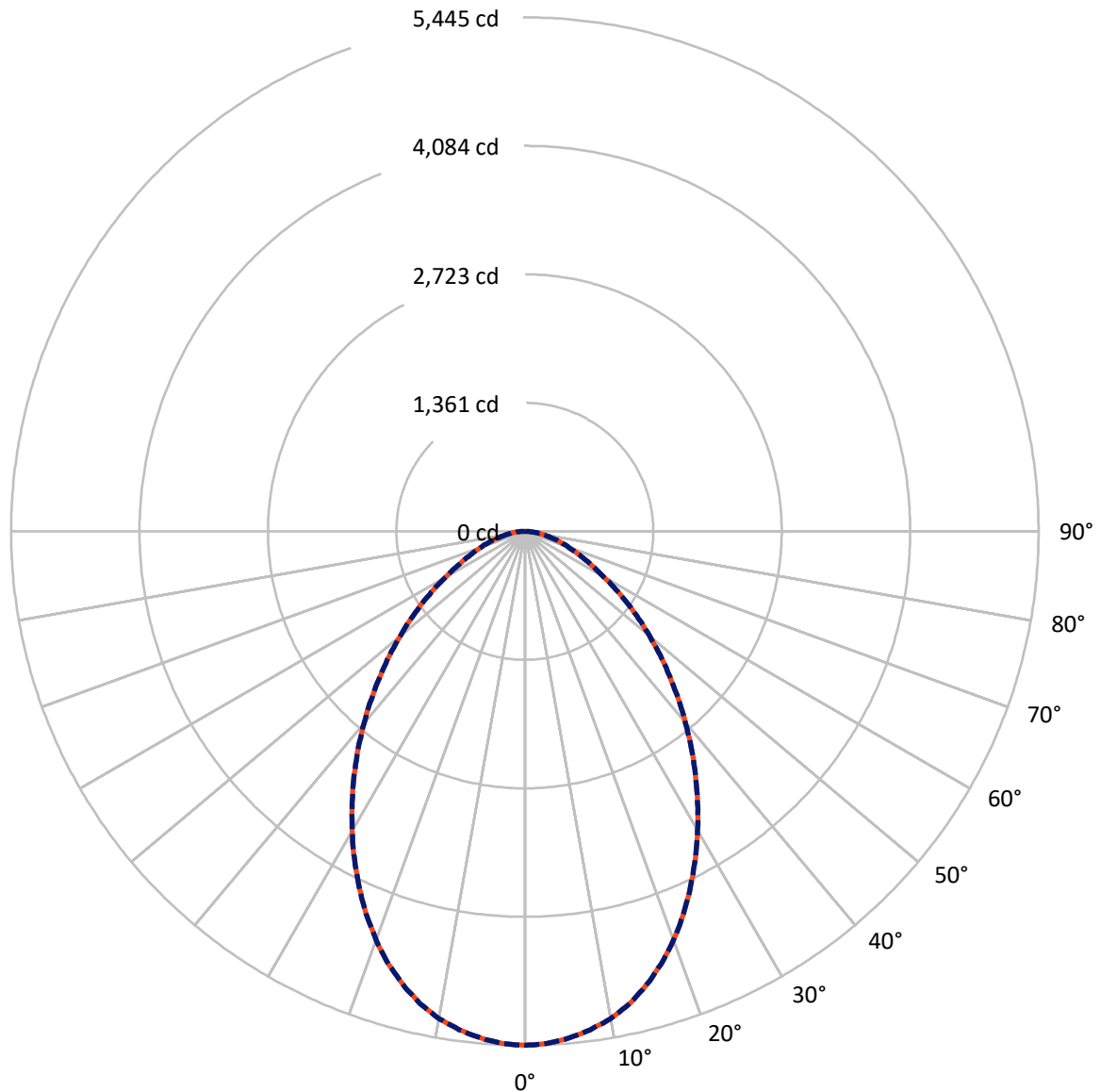
Lumen Table



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Luminous Intensity Polar Plot



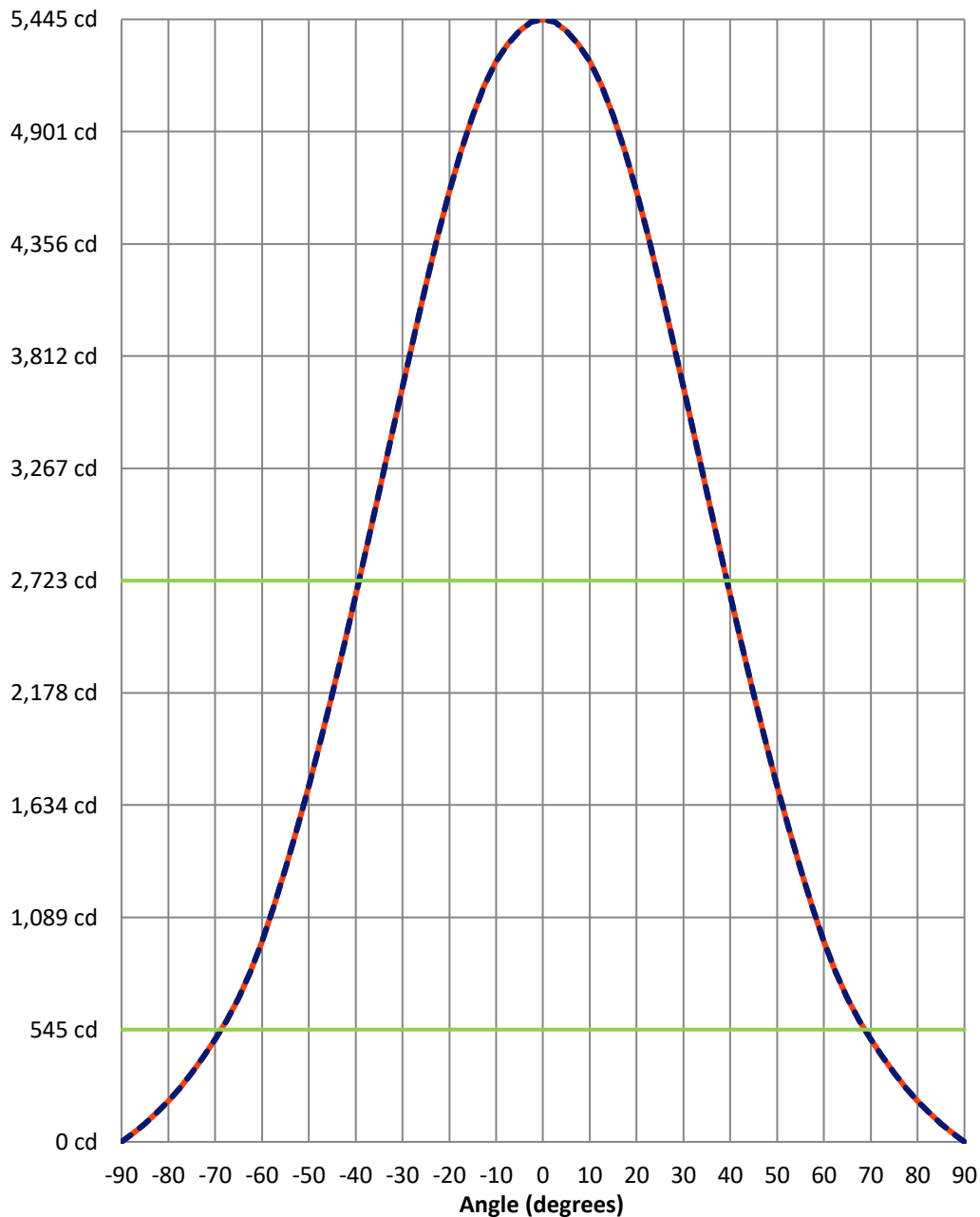
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4242.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 6946.5
Efficiency: 70.9%

Spill:

Lumens: 2857.8
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°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	39.9	39.9	38.8	37.8
85°	87.9	87.9	87.9	87.9	87.9	85.9	84.8	83.8	82.8	80.8	79.7
82.5°	141.1	141.1	141.1	141.1	139.0	137.0	136.0	133.9	131.9	128.8	125.7
80°	197.3	197.3	197.3	197.3	194.2	192.2	189.1	187.1	184.0	179.9	175.8
77.5°	261.7	261.7	261.7	258.6	256.6	253.5	250.4	246.3	242.3	237.1	231.0
75°	334.3	334.3	334.3	330.2	327.1	324.0	318.9	313.8	307.7	300.5	292.3
72.5°	413.0	413.0	413.0	407.9	404.8	399.7	393.5	386.4	379.2	370.0	359.8
70°	497.8	497.8	497.8	491.7	486.6	481.5	473.3	465.1	454.9	444.7	432.4
67.5°	589.8	589.8	589.8	582.7	576.5	569.4	560.2	549.9	537.7	523.4	509.1
65°	697.1	697.1	693.1	686.9	679.8	669.5	658.3	644.0	628.7	610.3	590.8
62.5°	823.9	823.9	817.8	810.6	801.4	788.1	772.8	754.4	732.9	709.4	685.9
60°	971.1	971.1	963.9	954.7	941.4	925.1	904.6	881.1	854.6	824.9	796.3
57.5°	1140.8	1140.8	1131.6	1119.3	1103.0	1082.5	1057.0	1027.3	993.6	956.8	921.0
55°	1324.8	1324.8	1313.5	1299.2	1279.8	1255.3	1224.6	1189.8	1149.0	1107.0	1061.0
52.5°	1520.0	1520.0	1506.7	1490.4	1467.9	1439.3	1404.5	1363.6	1316.6	1267.5	1213.3
50°	1725.5	1725.5	1710.1	1691.7	1666.2	1632.4	1592.6	1545.6	1493.4	1436.2	1373.8
47.5°	1945.2	1945.2	1927.9	1906.4	1875.7	1836.9	1789.9	1735.7	1676.4	1612.0	1541.5
45°	2171.1	2171.1	2151.7	2127.2	2093.5	2049.5	1997.4	1945.2	1869.6	1795.0	1713.2
42.5°	2406.3	2406.3	2383.8	2356.2	2317.3	2269.3	2210.0	2142.5	2067.9	1984.1	1895.2
40°	2650.6	2650.6	2625.0	2593.3	2550.4	2495.2	2428.7	2353.1	2269.3	2176.3	2078.1
37.5°	2900.0	2900.0	2871.4	2836.6	2788.6	2727.2	2652.6	2568.8	2474.7	2371.5	2263.1
35°	3151.4	3151.4	3119.7	3081.9	3028.8	2961.3	2880.6	2787.5	2683.3	2570.8	2449.2
32.5°	3408.0	3408.0	3373.3	3330.3	3270.0	3195.4	3106.5	3005.3	2900.0	2769.1	2636.2
30°	3661.5	3661.5	3623.7	3576.7	3512.3	3430.5	3333.4	3222.0	3098.3	2964.4	2821.3
27.5°	3910.9	3900.7	3869.0	3818.9	3748.4	3661.5	3556.2	3435.6	3301.7	3154.5	3001.2
25°	4156.3	4145.0	4110.3	4055.1	3979.4	3884.4	3770.9	3642.1	3498.0	3342.6	3174.9
22.5°	4391.4	4379.1	4342.3	4283.0	4202.3	4099.0	3977.4	3839.4	3686.0	3519.4	3342.6
20°	4609.1	4595.8	4558.0	4495.6	4411.8	4302.4	4173.6	4025.4	3861.9	3686.0	3498.0
17.5°	4805.4	4792.1	4752.2	4687.8	4609.1	4487.4	4354.6	4198.2	4025.4	3839.4	3642.1
15°	4978.1	4963.8	4922.9	4858.5	4768.6	4654.1	4514.0	4354.6	4173.6	3977.4	3770.9
12.5°	5125.3	5111.0	5069.1	5004.7	4911.7	4797.2	4654.1	4487.4	4302.4	4099.0	3884.4
10°	5241.8	5227.5	5187.7	5126.3	5030.2	4911.7	4768.6	4609.1	4411.8	4202.3	3979.4
7.5°	5325.7	5312.4	5275.6	5214.2	5126.3	5004.7	4858.5	4687.8	4495.6	4283.0	4055.1
5°	5389.0	5373.7	5336.9	5275.6	5187.7	5069.1	4922.9	4752.2	4558.0	4342.3	4110.3
2.5°	5433.0	5414.6	5373.7	5312.4	5227.5	5111.0	4963.8	4792.1	4595.8	4379.1	4145.0
0°	5445.2	5433.0	5389.0	5325.7	5241.8	5125.3	4978.1	4805.4	4609.1	4391.4	4156.3

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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°	36.8	36.8	35.8	34.8	33.7	31.7	30.7	29.6	28.6	26.6	25.6
85°	77.7	75.6	73.6	71.6	68.5	66.4	63.4	61.3	58.3	55.2	52.1
82.5°	122.7	119.6	115.5	112.4	108.4	103.2	99.2	94.0	88.9	84.8	79.7
80°	171.7	166.6	161.5	156.4	150.3	144.1	138.0	131.9	124.7	117.6	110.4
77.5°	224.9	217.7	210.6	202.4	195.2	187.1	178.9	170.7	161.5	152.3	143.1
75°	284.2	275.0	264.7	254.5	245.3	234.1	222.8	211.6	199.3	188.1	175.8
72.5°	348.6	337.3	325.1	312.8	299.5	285.2	270.9	255.5	241.2	226.9	211.6
70°	418.1	404.8	389.5	374.1	357.8	340.4	323.0	304.6	286.2	267.8	249.4
67.5°	492.7	476.3	457.9	439.5	419.1	398.7	378.2	356.7	334.3	311.8	290.3
65°	572.4	552.0	530.5	507.0	483.5	460.0	435.5	409.9	384.3	357.8	334.3
62.5°	661.4	635.8	608.2	579.6	553.0	524.4	497.8	466.1	435.5	405.8	376.2
60°	764.6	730.9	697.1	661.4	627.6	590.8	558.1	523.4	488.6	454.9	420.1
57.5°	880.1	837.2	796.3	753.4	708.4	667.5	625.6	583.7	544.8	505.0	467.1
55°	1011.0	958.8	907.7	854.6	802.4	751.3	698.2	651.1	603.1	558.1	514.2
52.5°	1154.1	1094.8	1031.4	971.1	904.6	841.3	782.0	722.7	666.5	612.3	562.2
50°	1307.4	1237.9	1165.3	1091.7	1016.1	941.4	869.9	800.4	735.0	671.6	612.3
47.5°	1466.9	1388.1	1305.3	1221.5	1140.8	1049.8	963.9	885.2	806.5	735.0	666.5
45°	1630.4	1541.5	1450.5	1355.4	1260.4	1162.2	1067.2	971.1	885.2	800.4	722.7
42.5°	1799.1	1698.9	1597.7	1492.4	1387.1	1279.8	1172.5	1067.2	963.9	869.9	782.0
40°	1972.8	1862.4	1746.9	1632.4	1520.0	1397.3	1279.8	1162.2	1049.8	941.4	841.3
37.5°	2146.6	2026.0	1901.3	1772.5	1643.7	1520.0	1387.1	1260.4	1140.8	1016.1	904.6
35°	2321.4	2188.5	2053.6	1913.6	1772.5	1632.4	1492.4	1355.4	1221.5	1091.7	971.1
32.5°	2497.2	2352.1	2202.8	2053.6	1901.3	1746.9	1597.7	1450.5	1305.3	1165.3	1031.4
30°	2670.0	2512.6	2352.1	2188.5	2026.0	1862.4	1698.9	1541.5	1388.1	1237.9	1094.8
27.5°	2838.6	2670.0	2497.2	2321.4	2146.6	1972.8	1799.1	1630.4	1466.9	1307.4	1154.1
25°	3001.2	2821.3	2636.2	2449.2	2263.1	2078.1	1895.2	1713.2	1541.5	1373.8	1213.3
22.5°	3154.5	2964.4	2769.1	2570.8	2371.5	2176.3	1984.1	1795.0	1612.0	1436.2	1267.5
20°	3301.7	3098.3	2900.0	2683.3	2474.7	2269.3	2067.9	1869.6	1676.4	1493.4	1316.6
17.5°	3435.6	3222.0	3005.3	2787.5	2568.8	2353.1	2142.5	1945.2	1735.7	1545.6	1363.6
15°	3556.2	3333.4	3106.5	2880.6	2652.6	2428.7	2210.0	1997.4	1789.9	1592.6	1404.5
12.5°	3661.5	3430.5	3195.4	2961.3	2727.2	2495.2	2269.3	2049.5	1836.9	1632.4	1439.3
10°	3748.4	3512.3	3270.0	3028.8	2788.6	2550.4	2317.3	2093.5	1875.7	1666.2	1467.9
7.5°	3818.9	3576.7	3330.3	3081.9	2836.6	2593.3	2356.2	2127.2	1906.4	1691.7	1490.4
5°	3869.0	3623.7	3373.3	3119.7	2871.4	2625.0	2383.8	2151.7	1927.9	1710.1	1506.7
2.5°	3900.7	3661.5	3408.0	3151.4	2900.0	2650.6	2406.3	2171.1	1945.2	1725.5	1520.0
0°	3910.9	3661.5	3408.0	3151.4	2900.0	2650.6	2406.3	2171.1	1945.2	1725.5	1520.0

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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°	24.5	22.5	20.4	19.4	17.4	16.4	14.3	12.3	11.2	9.2	7.2
85°	49.1	45.0	41.9	38.8	35.8	31.7	28.6	25.6	21.5	18.4	14.3
82.5°	74.6	69.5	64.4	59.3	54.2	49.1	42.9	37.8	32.7	27.6	21.5
80°	103.2	95.1	87.9	80.8	73.6	66.4	58.3	51.1	42.9	35.8	28.6
77.5°	132.9	123.7	113.5	103.2	93.0	83.8	73.6	64.4	55.2	45.0	35.8
75°	164.6	152.3	141.1	127.8	115.5	102.2	90.0	77.7	66.4	55.2	42.9
72.5°	197.3	182.0	166.6	152.3	137.0	121.6	107.3	92.0	77.7	64.4	51.1
70°	231.0	212.6	194.2	176.8	159.5	141.1	124.7	107.3	90.0	73.6	58.3
67.5°	266.8	245.3	223.9	201.4	182.0	161.5	141.1	121.6	102.2	83.8	66.4
65°	305.6	280.1	253.5	230.0	204.4	182.0	159.5	137.0	115.5	93.0	73.6
62.5°	345.5	315.9	286.2	256.6	230.0	201.4	176.8	152.3	127.8	103.2	80.8
60°	386.4	352.7	318.9	286.2	253.5	223.9	194.2	166.6	141.1	113.5	87.9
57.5°	428.3	390.5	352.7	315.9	280.1	245.3	212.6	182.0	152.3	123.7	95.1
55°	471.2	428.3	386.4	345.5	305.6	266.8	231.0	197.3	164.6	132.9	103.2
52.5°	514.2	467.1	420.1	376.2	334.3	290.3	249.4	211.6	175.8	143.1	110.4
50°	558.1	505.0	454.9	405.8	357.8	311.8	267.8	226.9	188.1	152.3	117.6
47.5°	603.1	544.8	488.6	435.5	384.3	334.3	286.2	241.2	199.3	161.5	124.7
45°	651.1	583.7	523.4	466.1	409.9	356.7	304.6	255.5	211.6	170.7	131.9
42.5°	698.2	625.6	558.1	497.8	435.5	378.2	323.0	270.9	222.8	178.9	138.0
40°	751.3	667.5	590.8	524.4	460.0	398.7	340.4	285.2	234.1	187.1	144.1
37.5°	802.4	708.4	627.6	553.0	483.5	419.1	357.8	299.5	245.3	195.2	150.3
35°	854.6	753.4	661.4	579.6	507.0	439.5	374.1	312.8	254.5	202.4	156.4
32.5°	907.7	796.3	697.1	608.2	530.5	457.9	389.5	325.1	264.7	210.6	161.5
30°	958.8	837.2	730.9	635.8	552.0	476.3	404.8	337.3	275.0	217.7	166.6
27.5°	1011.0	880.1	764.6	661.4	572.4	492.7	418.1	348.6	284.2	224.9	171.7
25°	1061.0	921.0	796.3	685.9	590.8	509.1	432.4	359.8	292.3	231.0	175.8
22.5°	1107.0	956.8	824.9	709.4	610.3	523.4	444.7	370.0	300.5	237.1	179.9
20°	1149.0	993.6	854.6	732.9	628.7	537.7	454.9	379.2	307.7	242.3	184.0
17.5°	1189.8	1027.3	881.1	754.4	644.0	549.9	465.1	386.4	313.8	246.3	187.1
15°	1224.6	1057.0	904.6	772.8	658.3	560.2	473.3	393.5	318.9	250.4	189.1
12.5°	1255.3	1082.5	925.1	788.1	669.5	569.4	481.5	399.7	324.0	253.5	192.2
10°	1279.8	1103.0	941.4	801.4	679.8	576.5	486.6	404.8	327.1	256.6	194.2
7.5°	1299.2	1119.3	954.7	810.6	686.9	582.7	491.7	407.9	330.2	258.6	197.3
5°	1313.5	1131.6	963.9	817.8	693.1	589.8	497.8	413.0	334.3	261.7	197.3
2.5°	1324.8	1140.8	971.1	823.9	697.1	589.8	497.8	413.0	334.3	261.7	197.3
0°	1324.8	1140.8	971.1	823.9	697.1	589.8	497.8	413.0	334.3	261.7	197.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.1	4.1	2.0	0.0
85°	11.2	7.2	4.1	0.0
82.5°	16.4	11.2	5.1	0.0
80°	21.5	14.3	7.2	0.0
77.5°	27.6	18.4	9.2	0.0
75°	32.7	21.5	11.2	0.0
72.5°	37.8	25.6	12.3	0.0
70°	42.9	28.6	14.3	0.0
67.5°	49.1	31.7	16.4	0.0
65°	54.2	35.8	17.4	0.0
62.5°	59.3	38.8	19.4	0.0
60°	64.4	41.9	20.4	0.0
57.5°	69.5	45.0	22.5	0.0
55°	74.6	49.1	24.5	0.0
52.5°	79.7	52.1	25.6	0.0
50°	84.8	55.2	26.6	0.0
47.5°	88.9	58.3	28.6	0.0
45°	94.0	61.3	29.6	0.0
42.5°	99.2	63.4	30.7	0.0
40°	103.2	66.4	31.7	0.0
37.5°	108.4	68.5	33.7	0.0
35°	112.4	71.6	34.8	0.0
32.5°	115.5	73.6	35.8	0.0
30°	119.6	75.6	36.8	0.0
27.5°	122.7	77.7	36.8	0.0
25°	125.7	79.7	37.8	0.0
22.5°	128.8	80.8	38.8	0.0
20°	131.9	82.8	39.9	0.0
17.5°	133.9	83.8	39.9	0.0
15°	136.0	84.8	41.9	0.0
12.5°	137.0	85.9	41.9	0.0
10°	139.0	87.9	41.9	0.0
7.5°	141.1	87.9	41.9	0.0
5°	141.1	87.9	41.9	0.0
2.5°	141.1	87.9	41.9	0.0
0°	141.1	87.9	41.9	0.0

(END OF REPORT)