

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: P623840

Luminaire Tested: **IFLD-S-SA2A-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623840
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

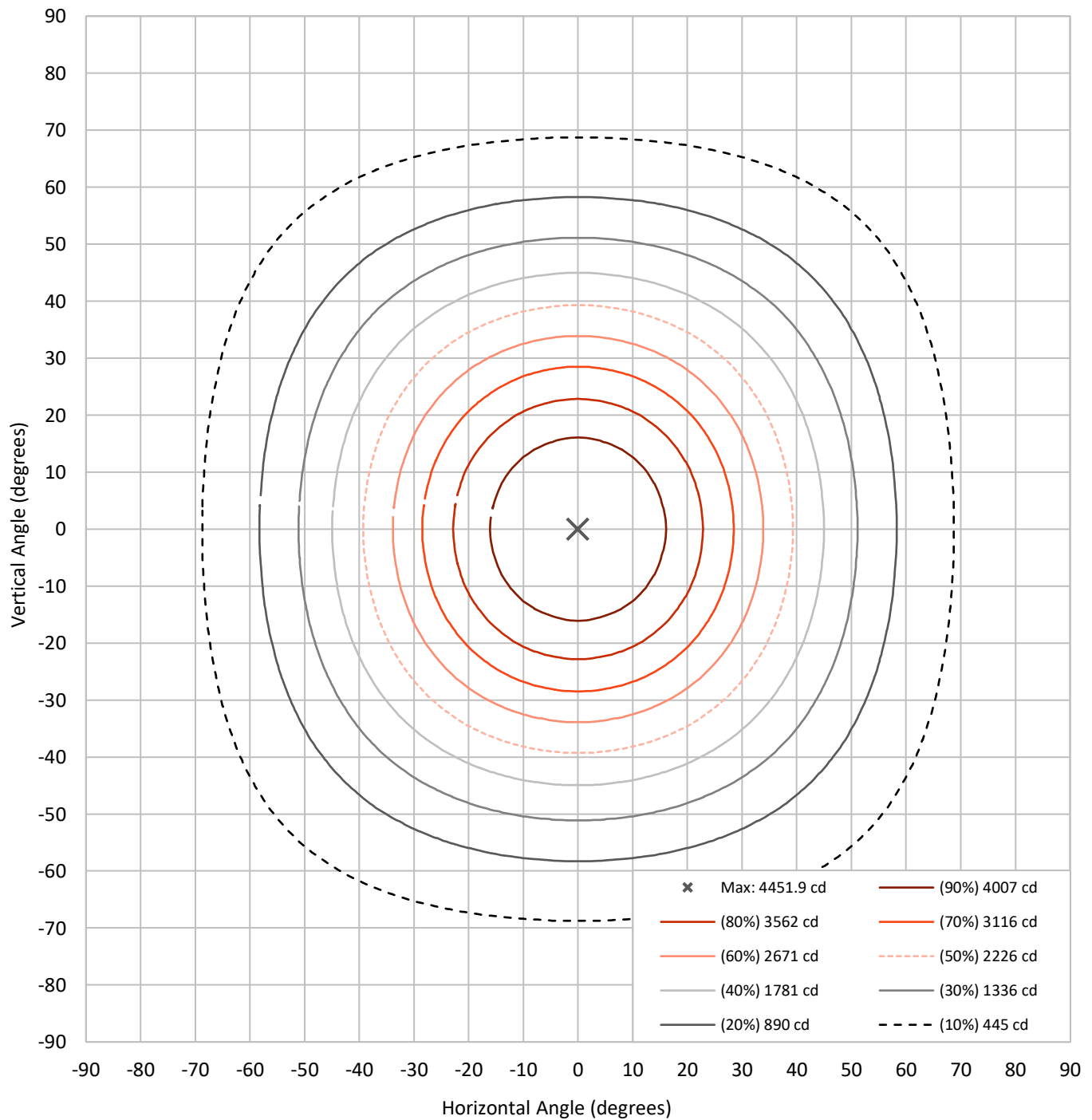
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8015.8 lumens	Max Intensity:	4451.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	125.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3468.4 lumens	Field Lumens:	5679.3 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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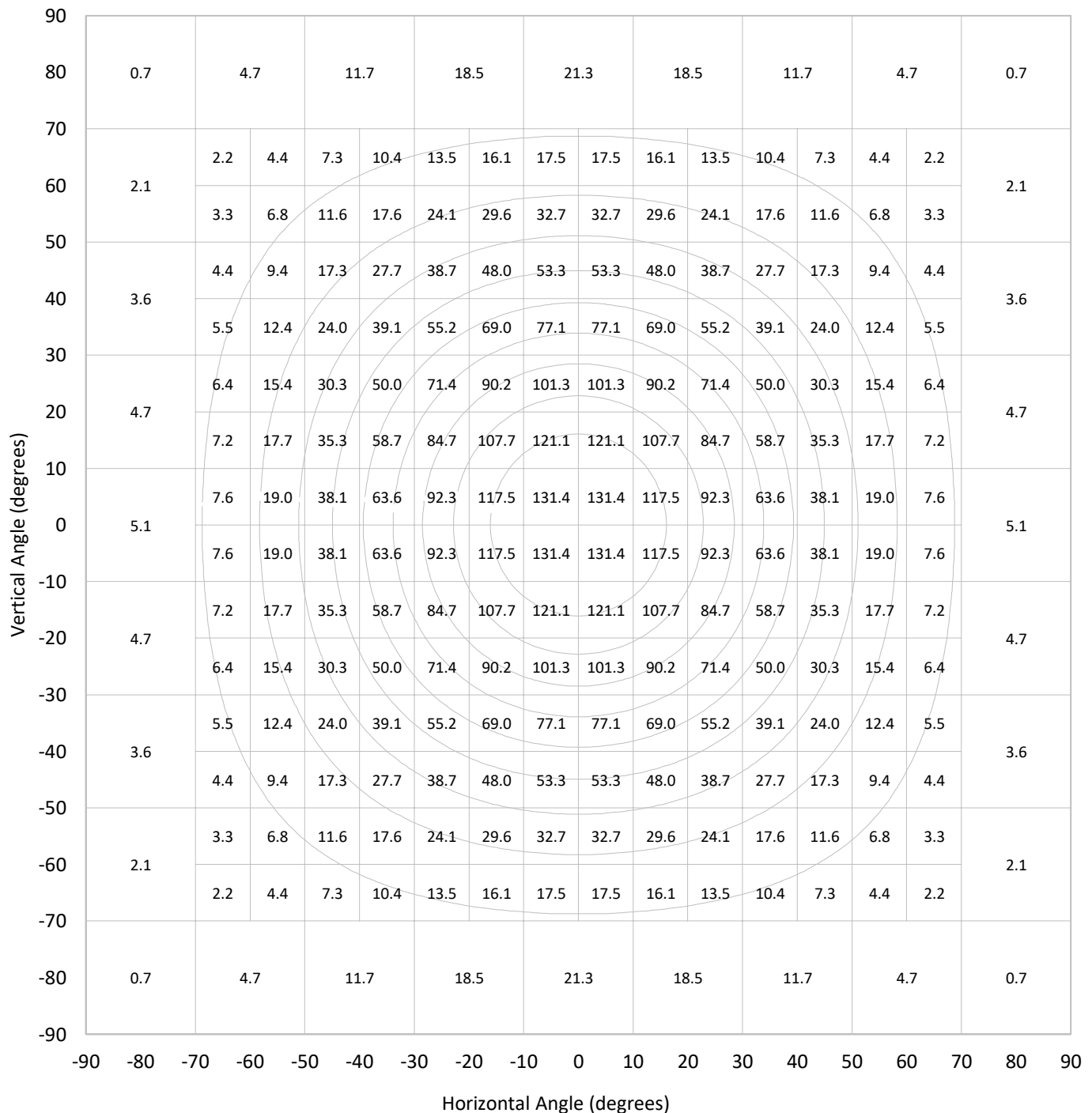
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Iso-Candela Plot



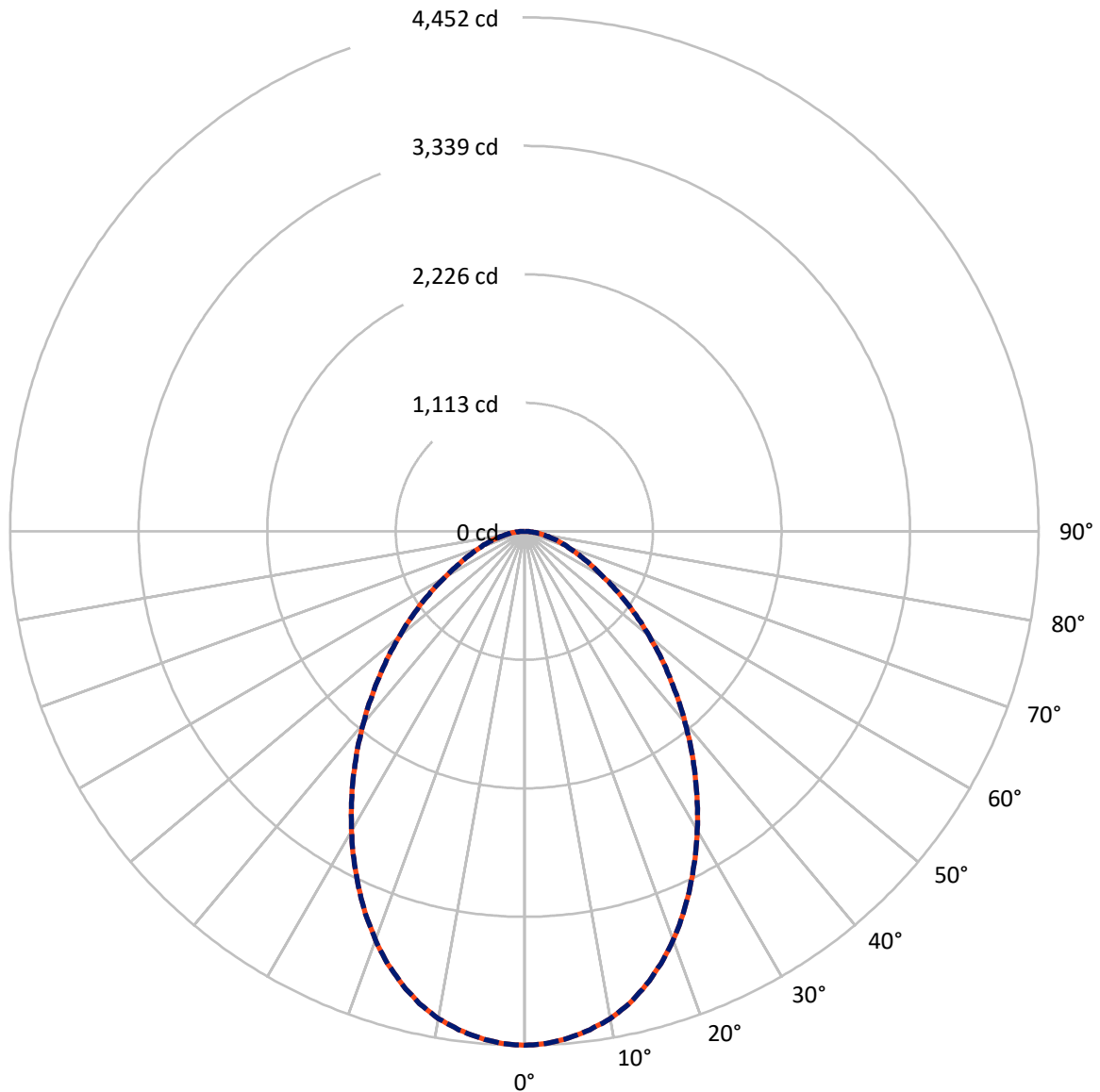
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Lumen Table



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Luminous Intensity Polar Plot

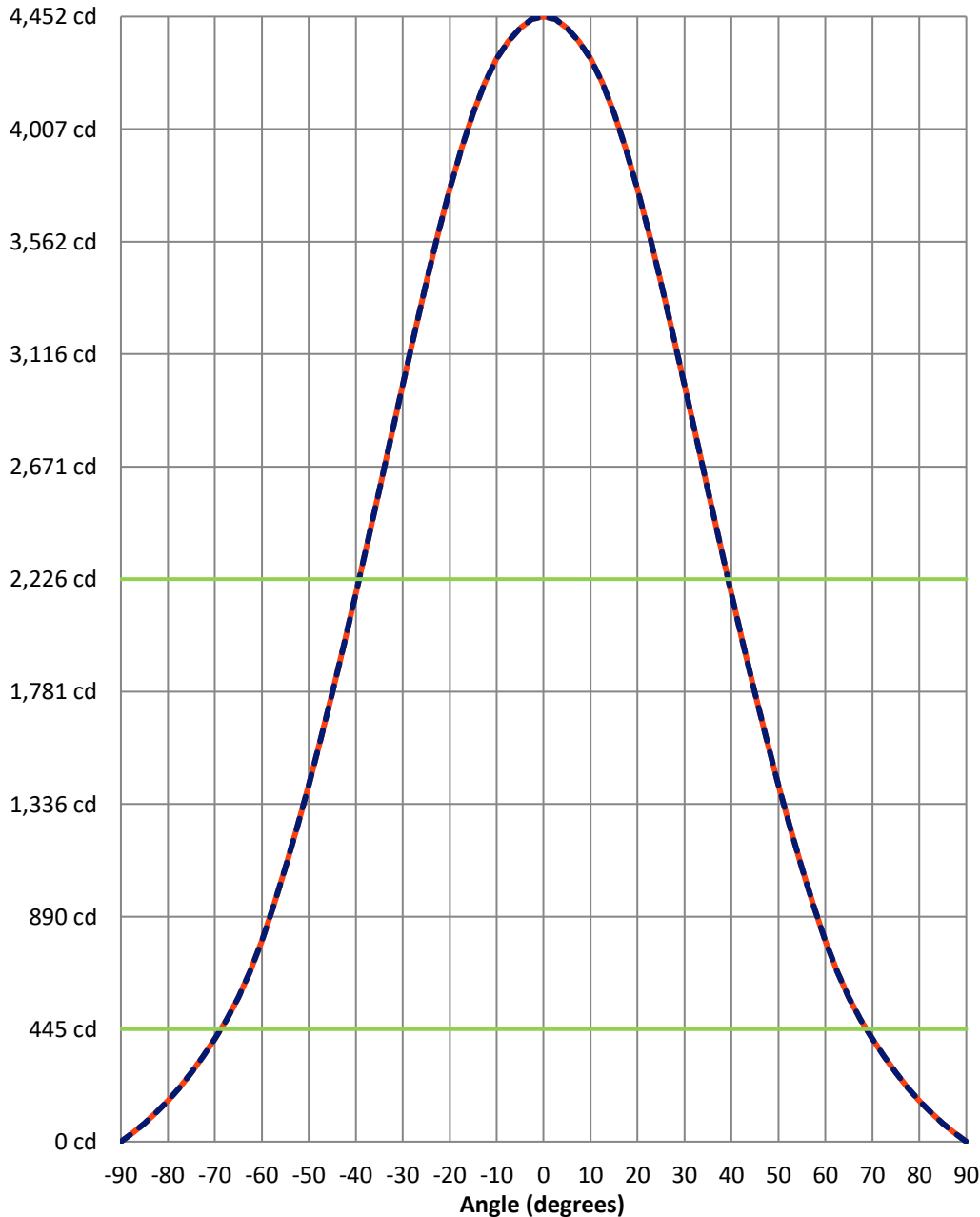


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 3468.4
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 5679.3
Efficiency: 70.9%

Spill:
Lumens: 2336.5
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°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	32.6	32.6	31.8	30.9
85°	71.9	71.9	71.9	71.9	71.9	70.2	69.4	68.5	67.7	66.0	65.2
82.5°	115.3	115.3	115.3	115.3	113.7	112.0	111.2	109.5	107.8	105.3	102.8
80°	161.3	161.3	161.3	161.3	158.8	157.1	154.6	152.9	150.4	147.1	143.7
77.5°	213.9	213.9	213.9	211.4	209.8	207.3	204.8	201.4	198.1	193.9	188.9
75°	273.3	273.3	273.3	269.9	267.4	264.9	260.7	256.6	251.6	245.7	239.0
72.5°	337.6	337.6	337.6	333.5	330.9	326.8	321.8	315.9	310.1	302.5	294.2
70°	407.0	407.0	407.0	402.0	397.8	393.6	386.9	380.3	371.9	363.5	353.5
67.5°	482.2	482.2	482.2	476.4	471.3	465.5	458.0	449.6	439.6	427.9	416.2
65°	570.0	570.0	566.6	561.6	555.8	547.4	538.2	526.5	514.0	498.9	483.0
62.5°	673.6	673.6	668.6	662.7	655.2	644.3	631.8	616.8	599.2	580.0	560.8
60°	793.9	793.9	788.1	780.6	769.7	756.3	739.6	720.4	698.7	674.4	651.0
57.5°	932.7	932.7	925.1	915.1	901.7	885.0	864.1	839.9	812.3	782.2	753.0
55°	1083.1	1083.1	1073.9	1062.2	1046.3	1026.3	1001.2	972.8	939.4	905.1	867.5
52.5°	1242.7	1242.7	1231.9	1218.5	1200.1	1176.7	1148.3	1114.9	1076.4	1036.3	992.0
50°	1410.7	1410.7	1398.2	1383.1	1362.2	1334.7	1302.1	1263.6	1221.0	1174.2	1123.2
47.5°	1590.4	1590.4	1576.2	1558.6	1533.6	1501.8	1463.4	1419.1	1370.6	1317.9	1260.3
45°	1775.1	1775.1	1759.2	1739.1	1711.6	1675.6	1633.0	1590.4	1528.5	1467.5	1400.7
42.5°	1967.3	1967.3	1948.9	1926.3	1894.6	1855.3	1806.8	1751.7	1690.7	1622.1	1549.4
40°	2167.0	2167.0	2146.1	2120.2	2085.1	2040.0	1985.7	1923.8	1855.3	1779.3	1699.0
37.5°	2371.0	2371.0	2347.6	2319.1	2279.9	2229.7	2168.7	2100.2	2023.3	1938.9	1850.3
35°	2576.5	2576.5	2550.6	2519.7	2476.3	2421.1	2355.1	2279.0	2193.8	2101.9	2002.4
32.5°	2786.3	2786.3	2757.9	2722.8	2673.5	2612.5	2539.8	2457.0	2371.0	2264.0	2155.3
30°	2993.6	2993.6	2962.6	2924.2	2871.6	2804.7	2725.3	2634.2	2533.1	2423.6	2306.6
27.5°	3197.5	3189.1	3163.2	3122.3	3064.6	2993.6	2907.5	2808.9	2699.4	2579.1	2453.7
25°	3398.1	3388.9	3360.5	3315.3	3253.5	3175.8	3083.0	2977.7	2859.9	2732.8	2595.8
22.5°	3590.3	3580.2	3550.2	3501.7	3435.7	3351.3	3251.8	3139.0	3013.6	2877.4	2732.8
20°	3768.3	3757.4	3726.5	3675.5	3607.0	3517.6	3412.3	3291.1	3157.4	3013.6	2859.9
17.5°	3928.7	3917.9	3885.3	3832.6	3768.3	3668.8	3560.2	3432.3	3291.1	3139.0	2977.7
15°	4070.0	4058.3	4024.9	3972.2	3898.7	3805.1	3690.6	3560.2	3412.3	3251.8	3083.0
12.5°	4190.3	4178.6	4144.4	4091.7	4015.7	3922.1	3805.1	3668.8	3517.6	3351.3	3175.8
10°	4285.6	4273.9	4241.3	4191.2	4112.6	4015.7	3898.7	3768.3	3607.0	3435.7	3253.5
7.5°	4354.1	4343.3	4313.2	4263.0	4191.2	4091.7	3972.2	3832.6	3675.5	3501.7	3315.3
5°	4405.9	4393.4	4363.3	4313.2	4241.3	4144.4	4024.9	3885.3	3726.5	3550.2	3360.5
2.5°	4441.9	4426.8	4393.4	4343.3	4273.9	4178.6	4058.3	3917.9	3757.4	3580.2	3388.9
0°	4451.9	4441.9	4405.9	4354.1	4285.6	4190.3	4070.0	3928.7	3768.3	3590.3	3398.1

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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°	30.1	30.1	29.3	28.4	27.6	25.9	25.1	24.2	23.4	21.7	20.9
85°	63.5	61.8	60.2	58.5	56.0	54.3	51.8	50.1	47.6	45.1	42.6
82.5°	100.3	97.8	94.4	91.9	88.6	84.4	81.1	76.9	72.7	69.4	65.2
80°	140.4	136.2	132.0	127.9	122.9	117.8	112.8	107.8	102.0	96.1	90.3
77.5°	183.9	178.0	172.2	165.5	159.6	152.9	146.3	139.6	132.0	124.5	117.0
75°	232.3	224.8	216.5	208.1	200.6	191.4	182.2	173.0	163.0	153.8	143.7
72.5°	285.0	275.8	265.8	255.7	244.9	233.2	221.5	208.9	197.2	185.5	173.0
70°	341.8	330.9	318.4	305.9	292.5	278.3	264.1	249.0	234.0	219.0	203.9
67.5°	402.8	389.4	374.4	359.4	342.6	325.9	309.2	291.7	273.3	254.9	237.3
65°	468.0	451.3	433.7	414.5	395.3	376.1	356.0	335.1	314.2	292.5	273.3
62.5°	540.7	519.8	497.3	473.9	452.1	428.7	407.0	381.1	356.0	331.8	307.5
60°	625.1	597.5	570.0	540.7	513.1	483.0	456.3	427.9	399.5	371.9	343.5
57.5°	719.6	684.5	651.0	615.9	579.2	545.7	511.5	477.2	445.4	412.8	381.9
55°	826.5	783.9	742.1	698.7	656.0	614.3	570.8	532.4	493.1	456.3	420.4
52.5°	943.5	895.1	843.2	793.9	739.6	687.8	639.3	590.9	544.9	500.6	459.6
50°	1068.9	1012.1	952.7	892.6	830.7	769.7	711.2	654.4	600.9	549.1	500.6
47.5°	1199.3	1134.9	1067.2	998.7	932.7	858.3	788.1	723.7	659.4	600.9	544.9
45°	1333.0	1260.3	1185.9	1108.2	1030.5	950.2	872.5	793.9	723.7	654.4	590.9
42.5°	1470.9	1389.0	1306.2	1220.2	1134.1	1046.3	958.6	872.5	788.1	711.2	639.3
40°	1613.0	1522.7	1428.3	1334.7	1242.7	1142.4	1046.3	950.2	858.3	769.7	687.8
37.5°	1755.0	1656.4	1554.5	1449.1	1343.8	1242.7	1134.1	1030.5	932.7	830.7	739.6
35°	1897.9	1789.3	1679.0	1564.5	1449.1	1334.7	1220.2	1108.2	998.7	892.6	793.9
32.5°	2041.7	1923.0	1801.0	1679.0	1554.5	1428.3	1306.2	1185.9	1067.2	952.7	843.2
30°	2182.9	2054.2	1923.0	1789.3	1656.4	1522.7	1389.0	1260.3	1134.9	1012.1	895.1
27.5°	2320.8	2182.9	2041.7	1897.9	1755.0	1613.0	1470.9	1333.0	1199.3	1068.9	943.5
25°	2453.7	2306.6	2155.3	2002.4	1850.3	1699.0	1549.4	1400.7	1260.3	1123.2	992.0
22.5°	2579.1	2423.6	2264.0	2101.9	1938.9	1779.3	1622.1	1467.5	1317.9	1174.2	1036.3
20°	2699.4	2533.1	2371.0	2193.8	2023.3	1855.3	1690.7	1528.5	1370.6	1221.0	1076.4
17.5°	2808.9	2634.2	2457.0	2279.0	2100.2	1923.8	1751.7	1590.4	1419.1	1263.6	1114.9
15°	2907.5	2725.3	2539.8	2355.1	2168.7	1985.7	1806.8	1633.0	1463.4	1302.1	1148.3
12.5°	2993.6	2804.7	2612.5	2421.1	2229.7	2040.0	1855.3	1675.6	1501.8	1334.7	1176.7
10°	3064.6	2871.6	2673.5	2476.3	2279.9	2085.1	1894.6	1711.6	1533.6	1362.2	1200.1
7.5°	3122.3	2924.2	2722.8	2519.7	2319.1	2120.2	1926.3	1739.1	1558.6	1383.1	1218.5
5°	3163.2	2962.6	2757.9	2550.6	2347.6	2146.1	1948.9	1759.2	1576.2	1398.2	1231.9
2.5°	3189.1	2993.6	2786.3	2576.5	2371.0	2167.0	1967.3	1775.1	1590.4	1410.7	1242.7
0°	3197.5	2993.6	2786.3	2576.5	2371.0	2167.0	1967.3	1775.1	1590.4	1410.7	1242.7

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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°	20.1	18.4	16.7	15.9	14.2	13.4	11.7	10.0	9.2	7.5	5.9
85°	40.1	36.8	34.3	31.8	29.3	25.9	23.4	20.9	17.6	15.0	11.7
82.5°	61.0	56.8	52.7	48.5	44.3	40.1	35.1	30.9	26.7	22.6	17.6
80°	84.4	77.7	71.9	66.0	60.2	54.3	47.6	41.8	35.1	29.3	23.4
77.5°	108.6	101.1	92.8	84.4	76.1	68.5	60.2	52.7	45.1	36.8	29.3
75°	134.6	124.5	115.3	104.5	94.4	83.6	73.5	63.5	54.3	45.1	35.1
72.5°	161.3	148.8	136.2	124.5	112.0	99.5	87.8	75.2	63.5	52.7	41.8
70°	188.9	173.8	158.8	144.6	130.4	115.3	102.0	87.8	73.5	60.2	47.6
67.5°	218.1	200.6	183.0	164.6	148.8	132.0	115.3	99.5	83.6	68.5	54.3
65°	249.9	229.0	207.3	188.0	167.1	148.8	130.4	112.0	94.4	76.1	60.2
62.5°	282.5	258.2	234.0	209.8	188.0	164.6	144.6	124.5	104.5	84.4	66.0
60°	315.9	288.3	260.7	234.0	207.3	183.0	158.8	136.2	115.3	92.8	71.9
57.5°	350.2	319.2	288.3	258.2	229.0	200.6	173.8	148.8	124.5	101.1	77.7
55°	385.3	350.2	315.9	282.5	249.9	218.1	188.9	161.3	134.6	108.6	84.4
52.5°	420.4	381.9	343.5	307.5	273.3	237.3	203.9	173.0	143.7	117.0	90.3
50°	456.3	412.8	371.9	331.8	292.5	254.9	219.0	185.5	153.8	124.5	96.1
47.5°	493.1	445.4	399.5	356.0	314.2	273.3	234.0	197.2	163.0	132.0	102.0
45°	532.4	477.2	427.9	381.1	335.1	291.7	249.0	208.9	173.0	139.6	107.8
42.5°	570.8	511.5	456.3	407.0	356.0	309.2	264.1	221.5	182.2	146.3	112.8
40°	614.3	545.7	483.0	428.7	376.1	325.9	278.3	233.2	191.4	152.9	117.8
37.5°	656.0	579.2	513.1	452.1	395.3	342.6	292.5	244.9	200.6	159.6	122.9
35°	698.7	615.9	540.7	473.9	414.5	359.4	305.9	255.7	208.1	165.5	127.9
32.5°	742.1	651.0	570.0	497.3	433.7	374.4	318.4	265.8	216.5	172.2	132.0
30°	783.9	684.5	597.5	519.8	451.3	389.4	330.9	275.8	224.8	178.0	136.2
27.5°	826.5	719.6	625.1	540.7	468.0	402.8	341.8	285.0	232.3	183.9	140.4
25°	867.5	753.0	651.0	560.8	483.0	416.2	353.5	294.2	239.0	188.9	143.7
22.5°	905.1	782.2	674.4	580.0	498.9	427.9	363.5	302.5	245.7	193.9	147.1
20°	939.4	812.3	698.7	599.2	514.0	439.6	371.9	310.1	251.6	198.1	150.4
17.5°	972.8	839.9	720.4	616.8	526.5	449.6	380.3	315.9	256.6	201.4	152.9
15°	1001.2	864.1	739.6	631.8	538.2	458.0	386.9	321.8	260.7	204.8	154.6
12.5°	1026.3	885.0	756.3	644.3	547.4	465.5	393.6	326.8	264.9	207.3	157.1
10°	1046.3	901.7	769.7	655.2	555.8	471.3	397.8	330.9	267.4	209.8	158.8
7.5°	1062.2	915.1	780.6	662.7	561.6	476.4	402.0	333.5	269.9	211.4	161.3
5°	1073.9	925.1	788.1	668.6	566.6	482.2	407.0	337.6	273.3	213.9	161.3
2.5°	1083.1	932.7	793.9	673.6	570.0	482.2	407.0	337.6	273.3	213.9	161.3
0°	1083.1	932.7	793.9	673.6	570.0	482.2	407.0	337.6	273.3	213.9	161.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.2	3.3	1.7	0.0
85°	9.2	5.9	3.3	0.0
82.5°	13.4	9.2	4.2	0.0
80°	17.6	11.7	5.9	0.0
77.5°	22.6	15.0	7.5	0.0
75°	26.7	17.6	9.2	0.0
72.5°	30.9	20.9	10.0	0.0
70°	35.1	23.4	11.7	0.0
67.5°	40.1	25.9	13.4	0.0
65°	44.3	29.3	14.2	0.0
62.5°	48.5	31.8	15.9	0.0
60°	52.7	34.3	16.7	0.0
57.5°	56.8	36.8	18.4	0.0
55°	61.0	40.1	20.1	0.0
52.5°	65.2	42.6	20.9	0.0
50°	69.4	45.1	21.7	0.0
47.5°	72.7	47.6	23.4	0.0
45°	76.9	50.1	24.2	0.0
42.5°	81.1	51.8	25.1	0.0
40°	84.4	54.3	25.9	0.0
37.5°	88.6	56.0	27.6	0.0
35°	91.9	58.5	28.4	0.0
32.5°	94.4	60.2	29.3	0.0
30°	97.8	61.8	30.1	0.0
27.5°	100.3	63.5	30.1	0.0
25°	102.8	65.2	30.9	0.0
22.5°	105.3	66.0	31.8	0.0
20°	107.8	67.7	32.6	0.0
17.5°	109.5	68.5	32.6	0.0
15°	111.2	69.4	34.3	0.0
12.5°	112.0	70.2	34.3	0.0
10°	113.7	71.9	34.3	0.0
7.5°	115.3	71.9	34.3	0.0
5°	115.3	71.9	34.3	0.0
2.5°	115.3	71.9	34.3	0.0
0°	115.3	71.9	34.3	0.0

(END OF REPORT)