

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: P624524

Luminaire Tested: **IFLD-S-SA2A-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624524
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

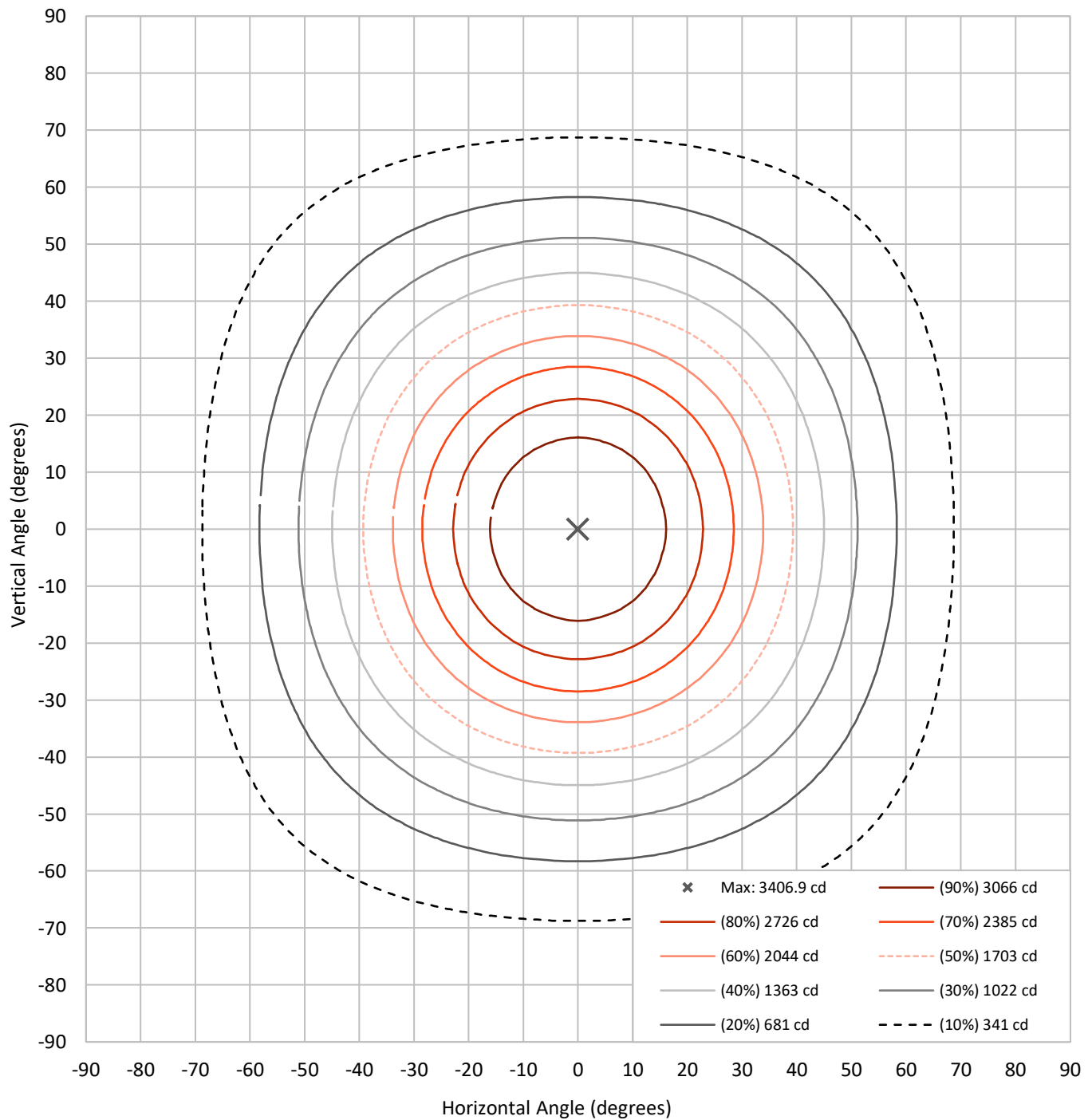
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6134.3 lumens	Max Intensity:	3406.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	96.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	2654.2 lumens	Field Lumens:	4346.2 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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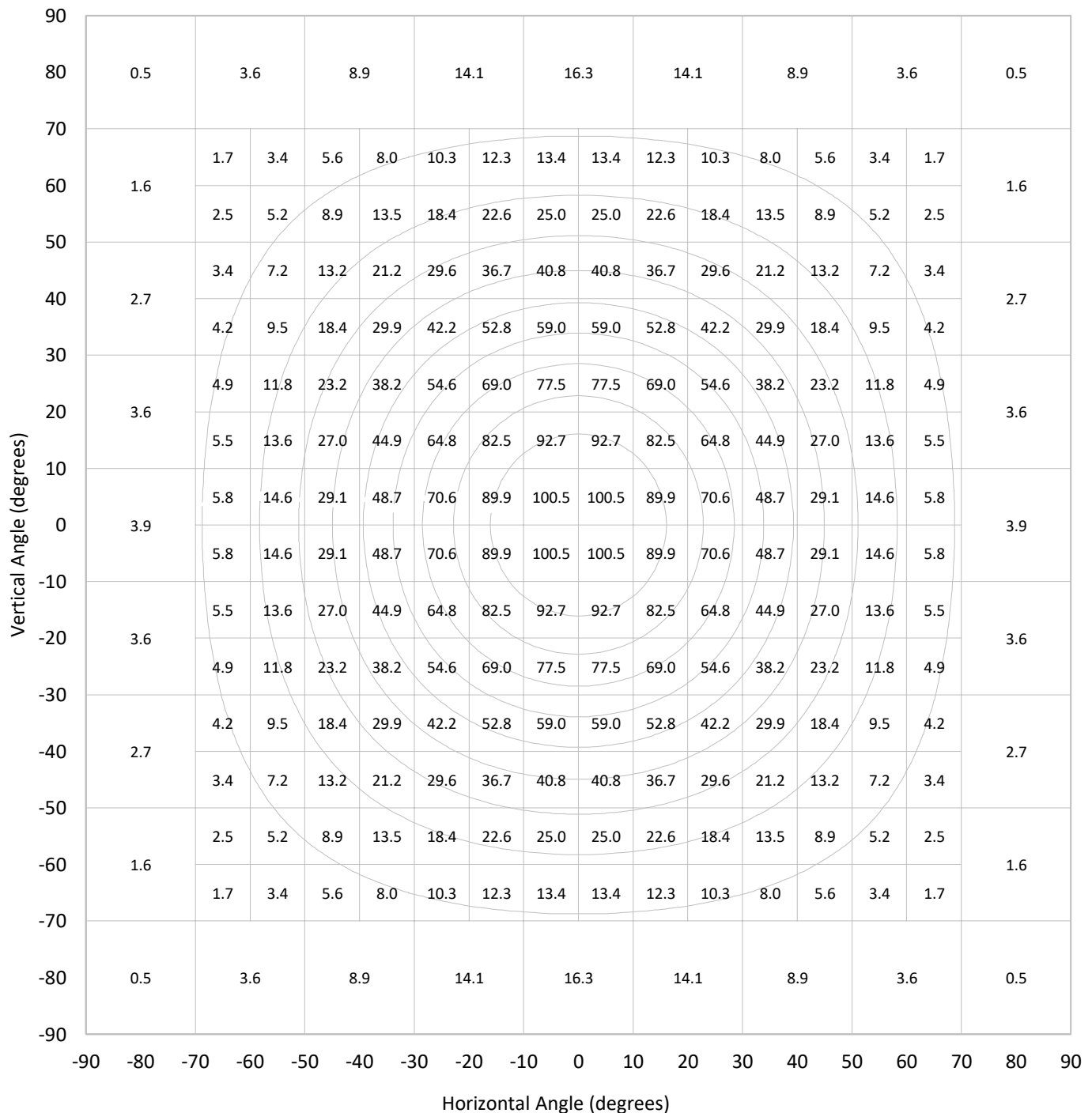
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Iso-Candela Plot



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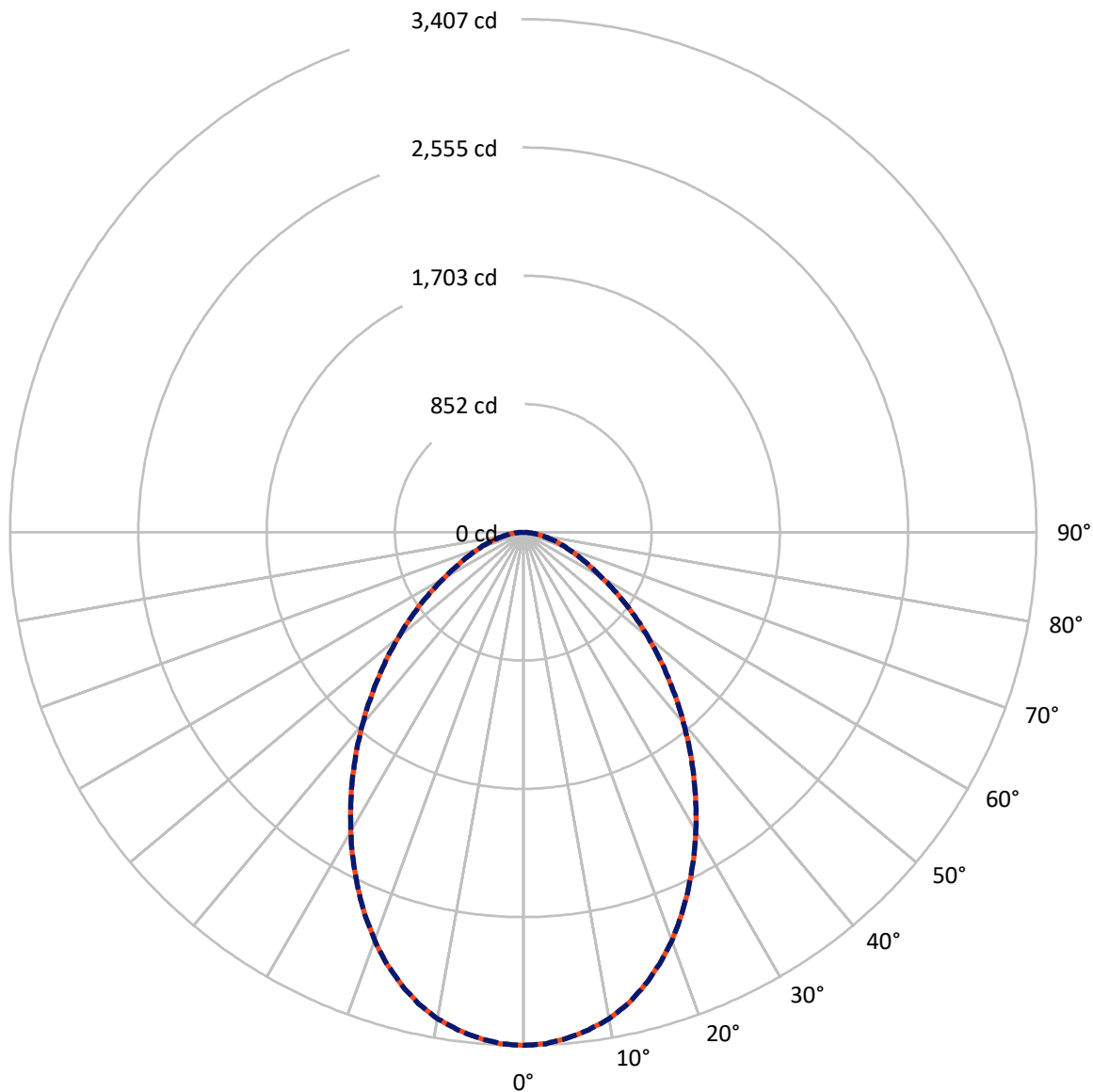
Lumen Table



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Luminous Intensity Polar Plot



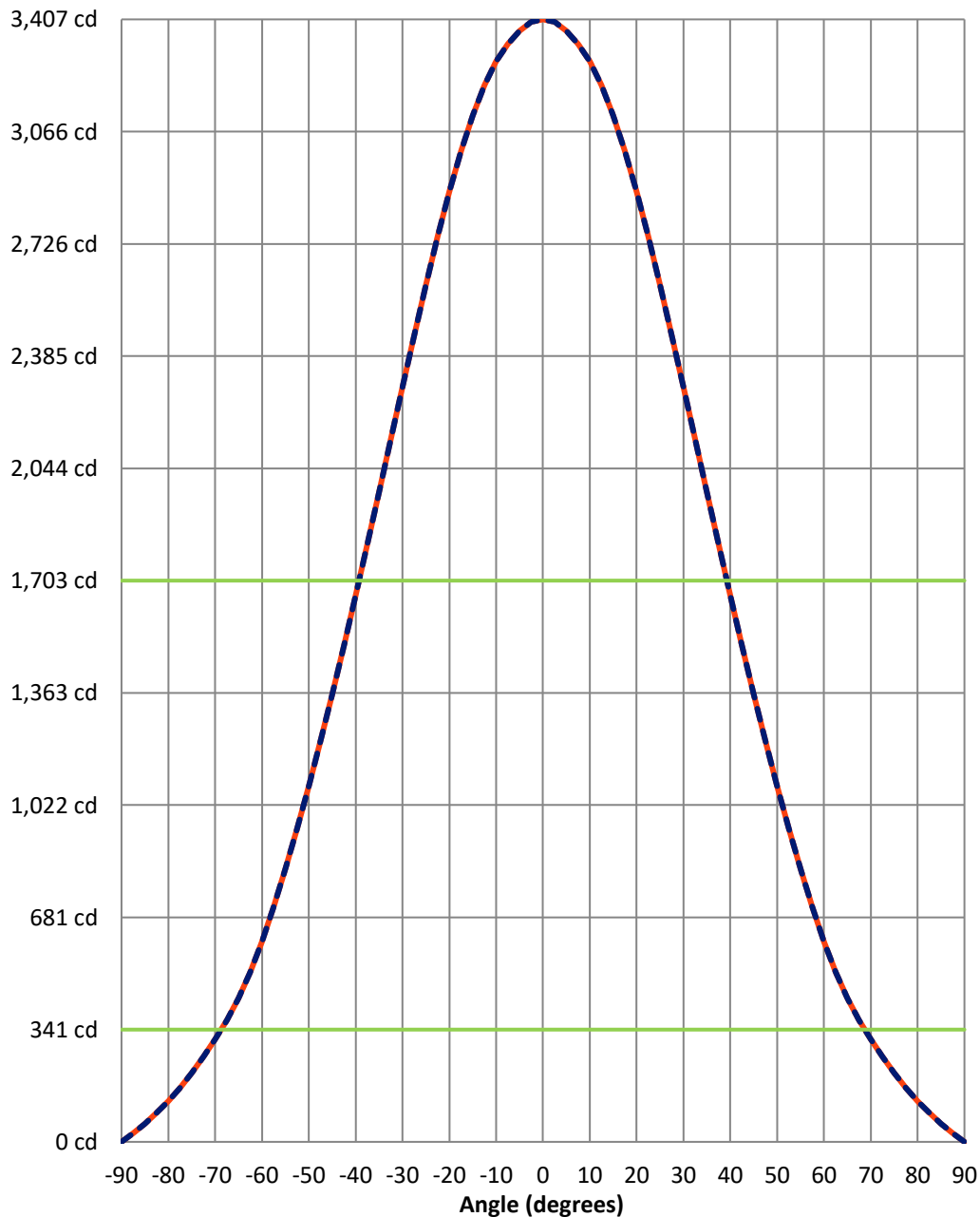
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 2654.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 4346.2
Efficiency: 70.9%

Spill:

Lumens: 1788
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°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	24.9	24.9	24.3	23.7
85°	55.0	55.0	55.0	55.0	55.0	53.7	53.1	52.4	51.8	50.5	49.9
82.5°	88.3	88.3	88.3	88.3	87.0	85.7	85.1	83.8	82.5	80.6	78.7
80°	123.4	123.4	123.4	123.4	121.5	120.2	118.3	117.0	115.1	112.6	110.0
77.5°	163.7	163.7	163.7	161.8	160.5	158.6	156.7	154.1	151.6	148.4	144.5
75°	209.1	209.1	209.1	206.6	204.7	202.7	199.5	196.3	192.5	188.0	182.9
72.5°	258.4	258.4	258.4	255.2	253.3	250.1	246.2	241.8	237.3	231.5	225.1
70°	311.5	311.5	311.5	307.6	304.4	301.2	296.1	291.0	284.6	278.2	270.5
67.5°	369.0	369.0	369.0	364.5	360.7	356.2	350.5	344.1	336.4	327.5	318.5
65°	436.2	436.2	433.6	429.8	425.3	418.9	411.9	402.9	393.3	381.8	369.7
62.5°	515.5	515.5	511.6	507.2	501.4	493.1	483.5	472.0	458.6	443.9	429.1
60°	607.6	607.6	603.1	597.3	589.0	578.8	566.0	551.3	534.7	516.1	498.2
57.5°	713.7	713.7	708.0	700.3	690.1	677.3	661.3	642.8	621.7	598.6	576.2
55°	828.9	828.9	821.8	812.9	800.7	785.4	766.2	744.4	718.9	692.6	663.9
52.5°	951.0	951.0	942.7	932.5	918.4	900.5	878.8	853.2	823.8	793.1	759.2
50°	1079.6	1079.6	1070.0	1058.5	1042.5	1021.4	996.4	967.0	934.4	898.6	859.6
47.5°	1217.1	1217.1	1206.2	1192.8	1173.6	1149.3	1119.9	1086.0	1048.9	1008.6	964.5
45°	1358.4	1358.4	1346.3	1330.9	1309.8	1282.3	1249.7	1217.1	1169.8	1123.1	1071.9
42.5°	1505.5	1505.5	1491.5	1474.2	1449.9	1419.8	1382.7	1340.5	1293.8	1241.4	1185.7
40°	1658.4	1658.4	1642.4	1622.6	1595.7	1561.2	1519.6	1472.3	1419.8	1361.6	1300.2
37.5°	1814.4	1814.4	1796.5	1774.8	1744.7	1706.3	1659.7	1607.2	1548.4	1483.8	1416.0
35°	1971.8	1971.8	1951.9	1928.3	1895.0	1852.8	1802.3	1744.1	1678.8	1608.5	1532.4
32.5°	2132.3	2132.3	2110.6	2083.7	2046.0	1999.3	1943.6	1880.3	1814.4	1732.6	1649.4
30°	2290.9	2290.9	2267.2	2237.8	2197.5	2146.4	2085.6	2015.9	1938.5	1854.7	1765.2
27.5°	2447.0	2440.6	2420.7	2389.4	2345.3	2290.9	2225.0	2149.6	2065.8	1973.7	1877.8
25°	2600.5	2593.4	2571.7	2537.1	2489.8	2430.3	2359.3	2278.8	2188.6	2091.4	1986.5
22.5°	2747.6	2739.9	2716.9	2679.8	2629.2	2564.6	2488.5	2402.2	2306.3	2202.0	2091.4
20°	2883.8	2875.5	2851.8	2812.8	2760.3	2691.9	2611.3	2518.6	2416.3	2306.3	2188.6
17.5°	3006.6	2998.3	2973.3	2933.0	2883.8	2807.7	2724.5	2626.7	2518.6	2402.2	2278.8
15°	3114.7	3105.7	3080.1	3039.8	2983.6	2911.9	2824.3	2724.5	2611.3	2488.5	2359.3
12.5°	3206.8	3197.8	3171.6	3131.3	3073.1	3001.5	2911.9	2807.7	2691.9	2564.6	2430.3
10°	3279.7	3270.7	3245.8	3207.4	3147.3	3073.1	2983.6	2883.8	2760.3	2629.2	2489.8
7.5°	3332.1	3323.8	3300.8	3262.4	3207.4	3131.3	3039.8	2933.0	2812.8	2679.8	2537.1
5°	3371.8	3362.2	3339.1	3300.8	3245.8	3171.6	3080.1	2973.3	2851.8	2716.9	2571.7
2.5°	3399.3	3387.8	3362.2	3323.8	3270.7	3197.8	3105.7	2998.3	2875.5	2739.9	2593.4
0°	3406.9	3399.3	3371.8	3332.1	3279.7	3206.8	3114.7	3006.6	2883.8	2747.6	2600.5

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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°	23.0	23.0	22.4	21.7	21.1	19.8	19.2	18.5	17.9	16.6	16.0
85°	48.6	47.3	46.0	44.8	42.9	41.6	39.7	38.4	36.5	34.5	32.6
82.5°	76.7	74.8	72.3	70.4	67.8	64.6	62.0	58.8	55.6	53.1	49.9
80°	107.4	104.2	101.1	97.9	94.0	90.2	86.3	82.5	78.0	73.5	69.1
77.5°	140.7	136.2	131.7	126.6	122.2	117.0	111.9	106.8	101.1	95.3	89.5
75°	177.8	172.0	165.6	159.3	153.5	146.5	139.4	132.4	124.7	117.7	110.0
72.5°	218.1	211.1	203.4	195.7	187.4	178.4	169.5	159.9	150.9	142.0	132.4
70°	261.6	253.3	243.7	234.1	223.8	213.0	202.1	190.6	179.1	167.6	156.1
67.5°	308.3	298.0	286.5	275.0	262.2	249.4	236.6	223.2	209.1	195.1	181.6
65°	358.2	345.4	331.9	317.2	302.5	287.8	272.5	256.5	240.5	223.8	209.1
62.5°	413.8	397.8	380.5	362.6	346.0	328.1	311.5	291.6	272.5	253.9	235.4
60°	478.4	457.3	436.2	413.8	392.7	369.7	349.2	327.5	305.7	284.6	262.9
57.5°	550.7	523.8	498.2	471.4	443.2	417.6	391.4	365.2	340.9	315.9	292.3
55°	632.5	599.9	567.9	534.7	502.1	470.1	436.8	407.4	377.3	349.2	321.7
52.5°	722.1	685.0	645.3	607.6	566.0	526.4	489.3	452.2	417.0	383.1	351.8
50°	818.0	774.5	729.1	683.1	635.7	589.0	544.3	500.8	459.8	420.2	383.1
47.5°	917.8	868.5	816.7	764.3	713.7	656.8	603.1	553.9	504.6	459.8	417.0
45°	1020.1	964.5	907.5	848.1	788.6	727.2	667.7	607.6	553.9	500.8	452.2
42.5°	1125.6	1062.9	999.6	933.8	867.9	800.7	733.6	667.7	603.1	544.3	489.3
40°	1234.4	1165.3	1093.0	1021.4	951.0	874.3	800.7	727.2	656.8	589.0	526.4
37.5°	1343.1	1267.6	1189.6	1109.0	1028.4	951.0	867.9	788.6	713.7	635.7	566.0
35°	1452.4	1369.3	1284.9	1197.3	1109.0	1021.4	933.8	848.1	764.3	683.1	607.6
32.5°	1562.4	1471.6	1378.3	1284.9	1189.6	1093.0	999.6	907.5	816.7	729.1	645.3
30°	1670.5	1572.0	1471.6	1369.3	1267.6	1165.3	1062.9	964.5	868.5	774.5	685.0
27.5°	1776.1	1670.5	1562.4	1452.4	1343.1	1234.4	1125.6	1020.1	917.8	818.0	722.1
25°	1877.8	1765.2	1649.4	1532.4	1416.0	1300.2	1185.7	1071.9	964.5	859.6	759.2
22.5°	1973.7	1854.7	1732.6	1608.5	1483.8	1361.6	1241.4	1123.1	1008.6	898.6	793.1
20°	2065.8	1938.5	1814.4	1678.8	1548.4	1419.8	1293.8	1169.8	1048.9	934.4	823.8
17.5°	2149.6	2015.9	1880.3	1744.1	1607.2	1472.3	1340.5	1217.1	1086.0	967.0	853.2
15°	2225.0	2085.6	1943.6	1802.3	1659.7	1519.6	1382.7	1249.7	1119.9	996.4	878.8
12.5°	2290.9	2146.4	1999.3	1852.8	1706.3	1561.2	1419.8	1282.3	1149.3	1021.4	900.5
10°	2345.3	2197.5	2046.0	1895.0	1744.7	1595.7	1449.9	1309.8	1173.6	1042.5	918.4
7.5°	2389.4	2237.8	2083.7	1928.3	1774.8	1622.6	1474.2	1330.9	1192.8	1058.5	932.5
5°	2420.7	2267.2	2110.6	1951.9	1796.5	1642.4	1491.5	1346.3	1206.2	1070.0	942.7
2.5°	2440.6	2290.9	2132.3	1971.8	1814.4	1658.4	1505.5	1358.4	1217.1	1079.6	951.0
0°	2447.0	2290.9	2132.3	1971.8	1814.4	1658.4	1505.5	1358.4	1217.1	1079.6	951.0

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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°	15.3	14.1	12.8	12.2	10.9	10.2	9.0	7.7	7.0	5.8	4.5
85°	30.7	28.1	26.2	24.3	22.4	19.8	17.9	16.0	13.4	11.5	9.0
82.5°	46.7	43.5	40.3	37.1	33.9	30.7	26.9	23.7	20.5	17.3	13.4
80°	64.6	59.5	55.0	50.5	46.0	41.6	36.5	32.0	26.9	22.4	17.9
77.5°	83.1	77.4	71.0	64.6	58.2	52.4	46.0	40.3	34.5	28.1	22.4
75°	103.0	95.3	88.3	79.9	72.3	64.0	56.3	48.6	41.6	34.5	26.9
72.5°	123.4	113.8	104.2	95.3	85.7	76.1	67.2	57.6	48.6	40.3	32.0
70°	144.5	133.0	121.5	110.6	99.8	88.3	78.0	67.2	56.3	46.0	36.5
67.5°	166.9	153.5	140.1	126.0	113.8	101.1	88.3	76.1	64.0	52.4	41.6
65°	191.2	175.2	158.6	143.9	127.9	113.8	99.8	85.7	72.3	58.2	46.0
62.5°	216.2	197.6	179.1	160.5	143.9	126.0	110.6	95.3	79.9	64.6	50.5
60°	241.8	220.6	199.5	179.1	158.6	140.1	121.5	104.2	88.3	71.0	55.0
57.5°	268.0	244.3	220.6	197.6	175.2	153.5	133.0	113.8	95.3	77.4	59.5
55°	294.8	268.0	241.8	216.2	191.2	166.9	144.5	123.4	103.0	83.1	64.6
52.5°	321.7	292.3	262.9	235.4	209.1	181.6	156.1	132.4	110.0	89.5	69.1
50°	349.2	315.9	284.6	253.9	223.8	195.1	167.6	142.0	117.7	95.3	73.5
47.5°	377.3	340.9	305.7	272.5	240.5	209.1	179.1	150.9	124.7	101.1	78.0
45°	407.4	365.2	327.5	291.6	256.5	223.2	190.6	159.9	132.4	106.8	82.5
42.5°	436.8	391.4	349.2	311.5	272.5	236.6	202.1	169.5	139.4	111.9	86.3
40°	470.1	417.6	369.7	328.1	287.8	249.4	213.0	178.4	146.5	117.0	90.2
37.5°	502.1	443.2	392.7	346.0	302.5	262.2	223.8	187.4	153.5	122.2	94.0
35°	534.7	471.4	413.8	362.6	317.2	275.0	234.1	195.7	159.3	126.6	97.9
32.5°	567.9	498.2	436.2	380.5	331.9	286.5	243.7	203.4	165.6	131.7	101.1
30°	599.9	523.8	457.3	397.8	345.4	298.0	253.3	211.1	172.0	136.2	104.2
27.5°	632.5	550.7	478.4	413.8	358.2	308.3	261.6	218.1	177.8	140.7	107.4
25°	663.9	576.2	498.2	429.1	369.7	318.5	270.5	225.1	182.9	144.5	110.0
22.5°	692.6	598.6	516.1	443.9	381.8	327.5	278.2	231.5	188.0	148.4	112.6
20°	718.9	621.7	534.7	458.6	393.3	336.4	284.6	237.3	192.5	151.6	115.1
17.5°	744.4	642.8	551.3	472.0	402.9	344.1	291.0	241.8	196.3	154.1	117.0
15°	766.2	661.3	566.0	483.5	411.9	350.5	296.1	246.2	199.5	156.7	118.3
12.5°	785.4	677.3	578.8	493.1	418.9	356.2	301.2	250.1	202.7	158.6	120.2
10°	800.7	690.1	589.0	501.4	425.3	360.7	304.4	253.3	204.7	160.5	121.5
7.5°	812.9	700.3	597.3	507.2	429.8	364.5	307.6	255.2	206.6	161.8	123.4
5°	821.8	708.0	603.1	511.6	433.6	369.0	311.5	258.4	209.1	163.7	123.4
2.5°	828.9	713.7	607.6	515.5	436.2	369.0	311.5	258.4	209.1	163.7	123.4
0°	828.9	713.7	607.6	515.5	436.2	369.0	311.5	258.4	209.1	163.7	123.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.2	2.6	1.3	0.0
85°	7.0	4.5	2.6	0.0
82.5°	10.2	7.0	3.2	0.0
80°	13.4	9.0	4.5	0.0
77.5°	17.3	11.5	5.8	0.0
75°	20.5	13.4	7.0	0.0
72.5°	23.7	16.0	7.7	0.0
70°	26.9	17.9	9.0	0.0
67.5°	30.7	19.8	10.2	0.0
65°	33.9	22.4	10.9	0.0
62.5°	37.1	24.3	12.2	0.0
60°	40.3	26.2	12.8	0.0
57.5°	43.5	28.1	14.1	0.0
55°	46.7	30.7	15.3	0.0
52.5°	49.9	32.6	16.0	0.0
50°	53.1	34.5	16.6	0.0
47.5°	55.6	36.5	17.9	0.0
45°	58.8	38.4	18.5	0.0
42.5°	62.0	39.7	19.2	0.0
40°	64.6	41.6	19.8	0.0
37.5°	67.8	42.9	21.1	0.0
35°	70.4	44.8	21.7	0.0
32.5°	72.3	46.0	22.4	0.0
30°	74.8	47.3	23.0	0.0
27.5°	76.7	48.6	23.0	0.0
25°	78.7	49.9	23.7	0.0
22.5°	80.6	50.5	24.3	0.0
20°	82.5	51.8	24.9	0.0
17.5°	83.8	52.4	24.9	0.0
15°	85.1	53.1	26.2	0.0
12.5°	85.7	53.7	26.2	0.0
10°	87.0	55.0	26.2	0.0
7.5°	88.3	55.0	26.2	0.0
5°	88.3	55.0	26.2	0.0
2.5°	88.3	55.0	26.2	0.0
0°	88.3	55.0	26.2	0.0

(END OF REPORT)