

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: P623913

Luminaire Tested: **IFLD-M-SA4A-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623913
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18910 lumens	Max Intensity:	10502.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.0 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:	8182.2 lumens	Field Lumens:	13398 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

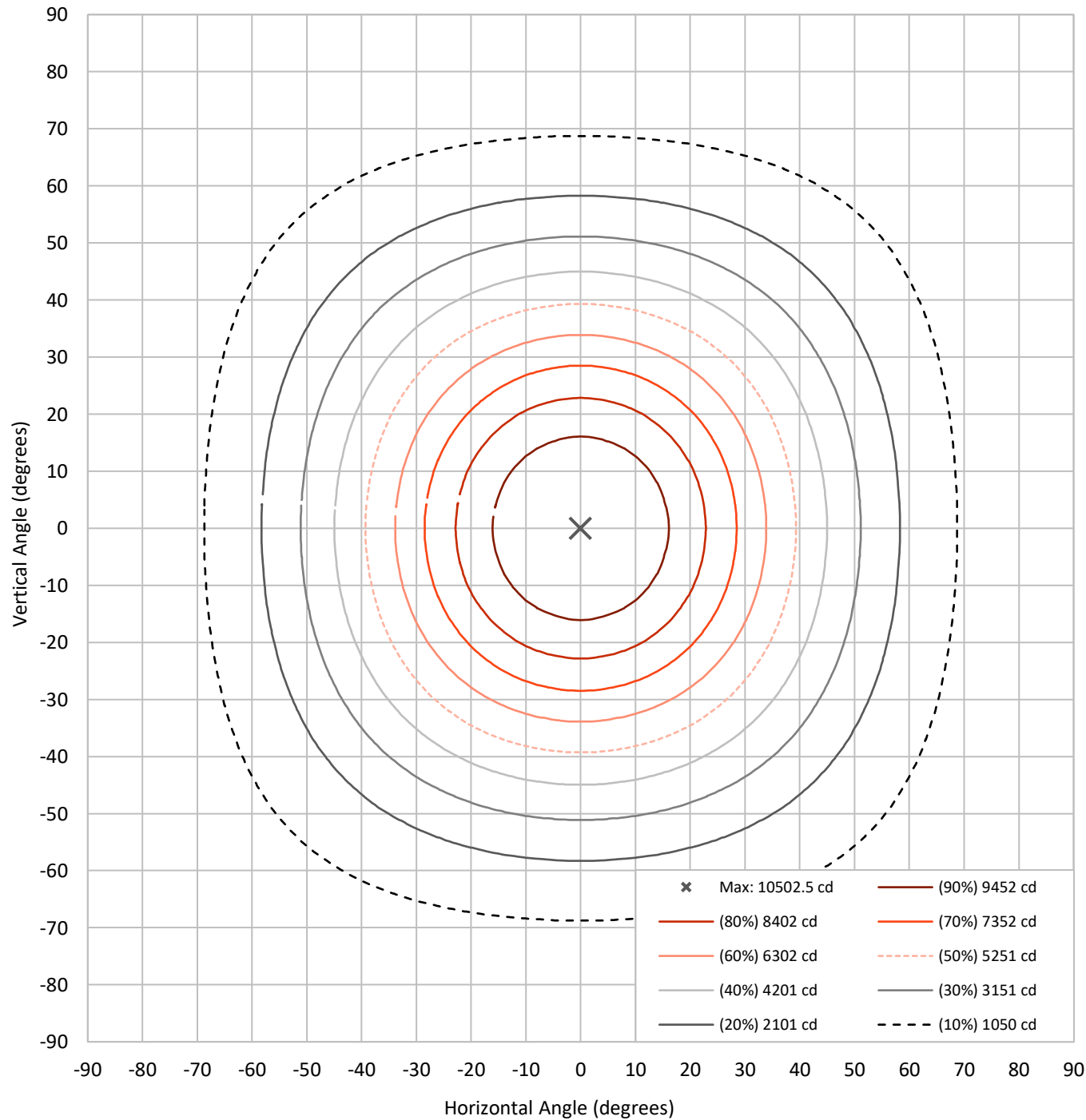
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





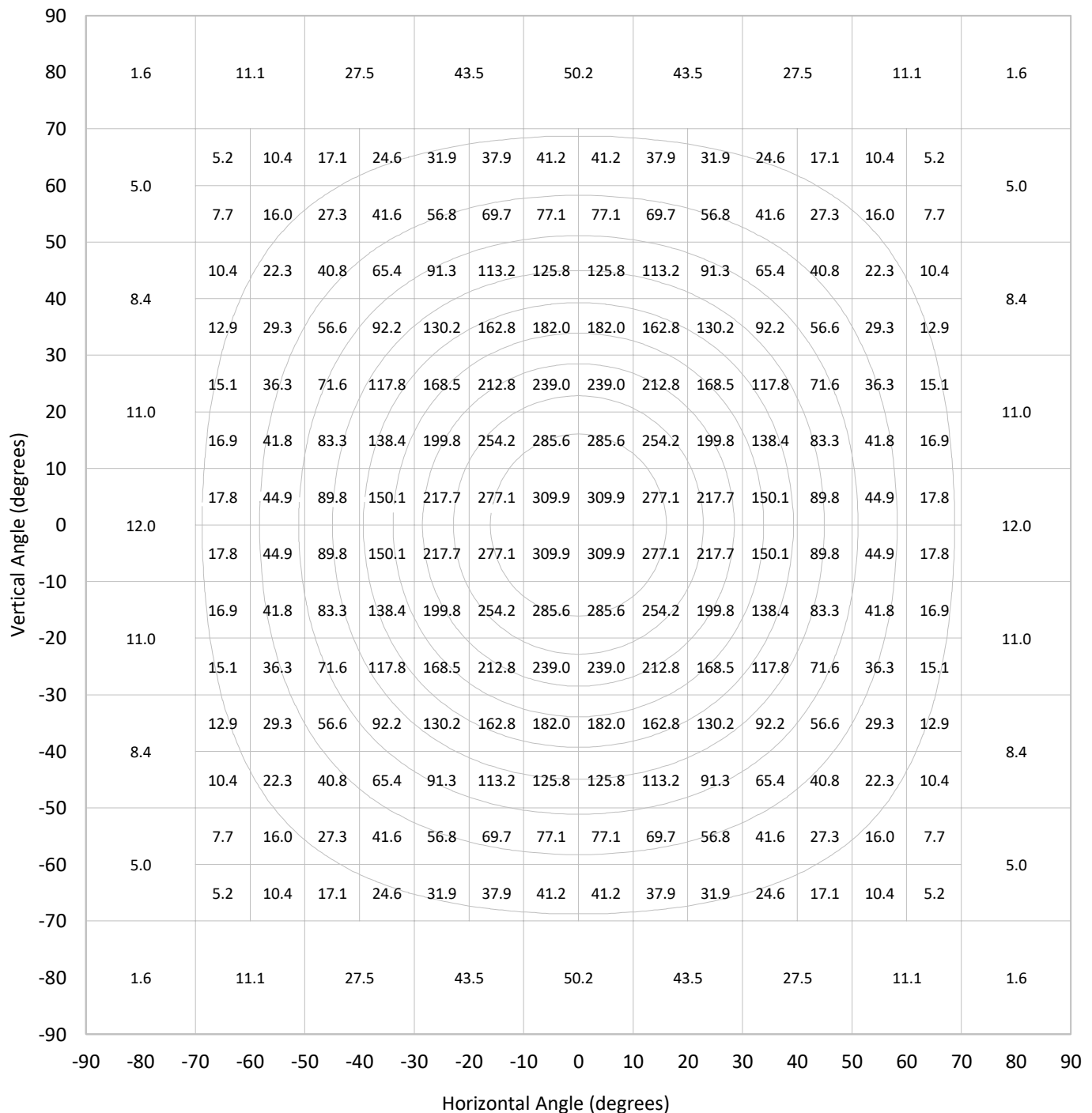
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Iso-Candela Plot



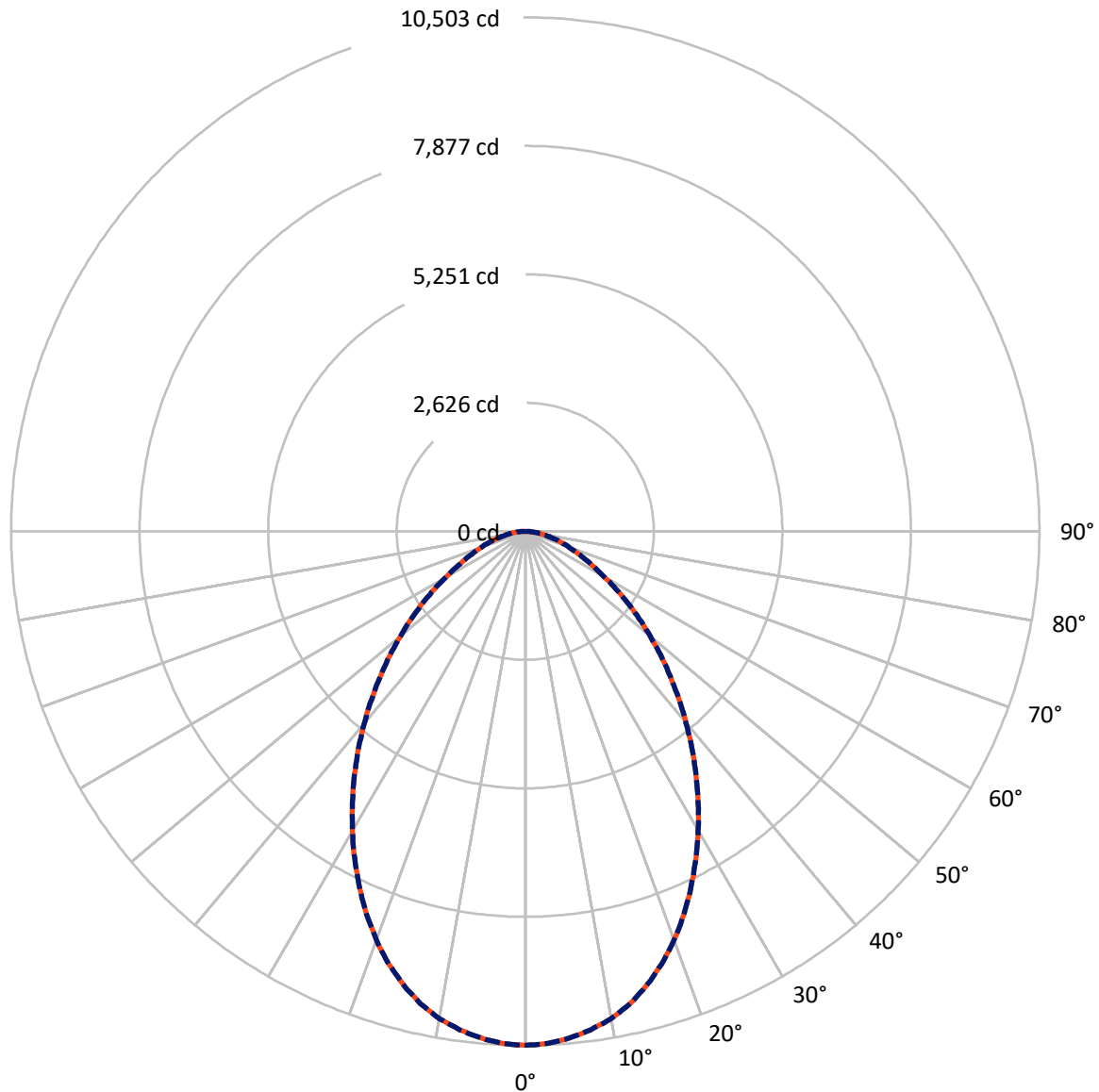
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Lumen Table



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Luminous Intensity Polar Plot

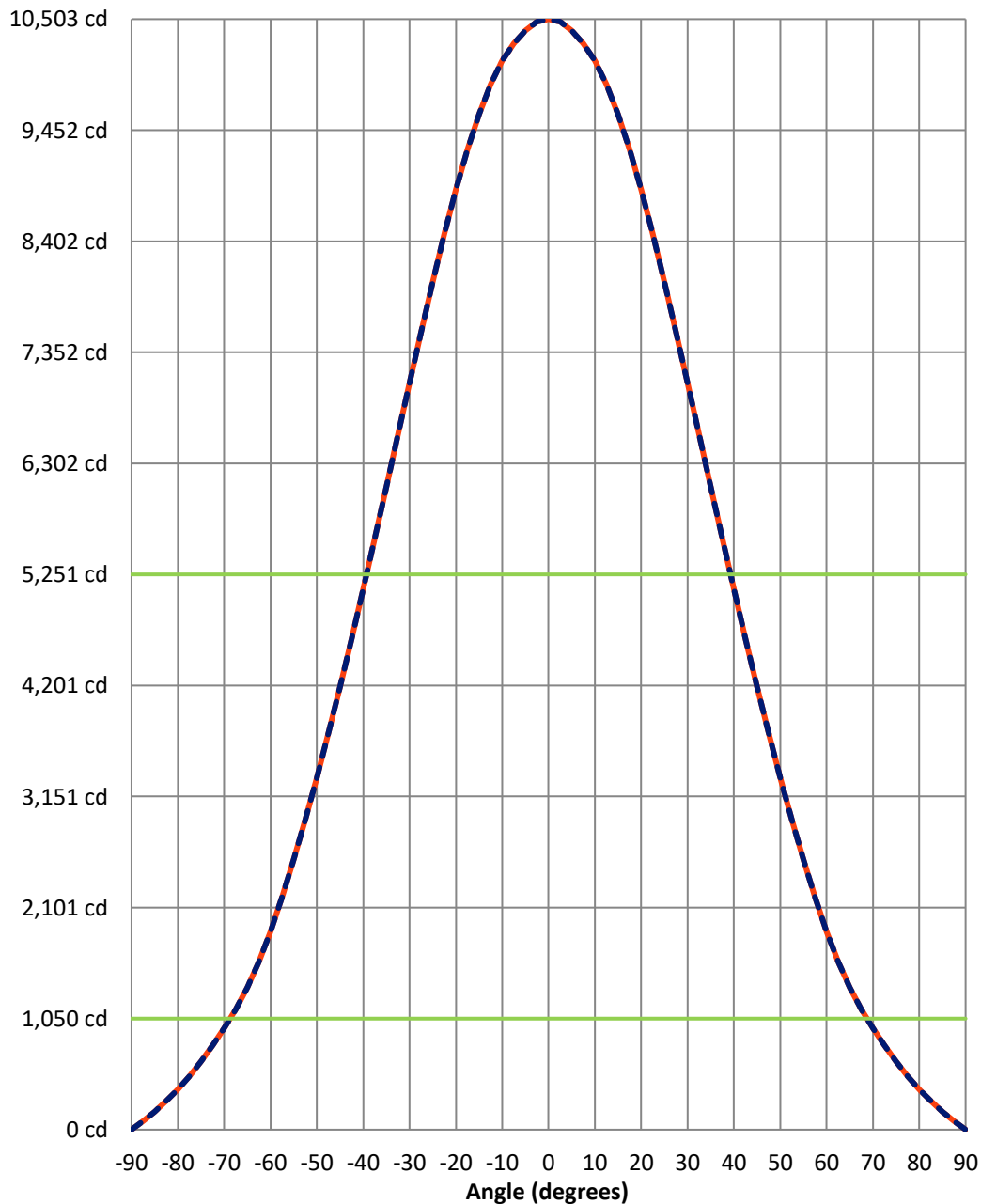


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8182.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 13398
Efficiency: 70.9%

Spill:

Lumens: 5512
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°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	76.9	76.9	74.9	72.9
85°	169.6	169.6	169.6	169.6	169.6	165.6	163.6	161.7	159.7	155.8	153.8
82.5°	272.1	272.1	272.1	272.1	268.1	264.2	262.2	258.3	254.3	248.4	242.5
80°	380.5	380.5	380.5	380.5	374.6	370.7	364.7	360.8	354.9	347.0	339.1
77.5°	504.7	504.7	504.7	498.8	494.9	488.9	483.0	475.1	467.3	457.4	445.6
75°	644.7	644.7	644.7	636.8	630.9	625.0	615.1	605.3	593.4	579.6	563.9
72.5°	796.5	796.5	796.5	786.7	780.7	770.9	759.1	745.2	731.4	713.7	694.0
70°	960.1	960.1	960.1	948.3	938.5	928.6	912.8	897.1	877.3	857.6	834.0
67.5°	1137.6	1137.6	1137.6	1123.8	1112.0	1098.2	1080.4	1060.7	1037.0	1009.4	981.8
65°	1344.6	1344.6	1336.7	1324.9	1311.1	1291.4	1269.7	1242.1	1212.5	1177.0	1139.6
62.5°	1589.1	1589.1	1577.2	1563.4	1545.7	1520.1	1490.5	1455.0	1413.6	1368.3	1322.9
60°	1873.0	1873.0	1859.2	1841.4	1815.8	1784.3	1744.8	1699.5	1648.2	1591.0	1535.8
57.5°	2200.3	2200.3	2182.5	2158.9	2127.3	2087.9	2038.6	1981.4	1916.4	1845.4	1776.4
55°	2555.1	2555.1	2533.5	2505.9	2468.4	2421.1	2361.9	2294.9	2216.0	2135.2	2046.5
52.5°	2931.7	2931.7	2906.1	2874.5	2831.2	2776.0	2708.9	2630.1	2539.4	2444.7	2340.2
50°	3328.0	3328.0	3298.4	3262.9	3213.6	3148.6	3071.7	2981.0	2880.4	2770.0	2649.8
47.5°	3751.9	3751.9	3718.4	3677.0	3617.8	3542.9	3452.2	3347.7	3233.4	3109.1	2973.1
45°	4187.6	4187.6	4150.1	4102.8	4037.8	3953.0	3852.4	3751.9	3606.0	3462.1	3304.3
42.5°	4641.0	4641.0	4597.7	4544.4	4469.5	4376.9	4262.5	4132.4	3988.5	3826.8	3655.3
40°	5112.3	5112.3	5063.0	5001.8	4919.0	4812.6	4684.4	4538.5	4376.9	4197.4	4008.2
37.5°	5593.3	5593.3	5538.1	5471.1	5378.4	5260.1	5116.2	4954.5	4773.1	4574.0	4365.0
35°	6078.3	6078.3	6017.2	5944.2	5841.7	5711.6	5555.9	5376.4	5175.3	4958.5	4723.9
32.5°	6573.2	6573.2	6506.1	6423.3	6307.0	6163.1	5991.6	5796.4	5593.3	5341.0	5084.6
30°	7062.1	7062.1	6989.2	6898.5	6774.3	6616.6	6429.3	6214.4	5975.8	5717.5	5441.5
27.5°	7543.2	7523.5	7462.3	7365.7	7229.7	7062.1	6859.1	6626.4	6368.1	6084.2	5788.5
25°	8016.4	7994.7	7927.6	7821.2	7675.3	7491.9	7273.1	7024.7	6746.7	6447.0	6123.7
22.5°	8469.8	8446.2	8375.2	8260.8	8105.1	7905.9	7671.3	7405.2	7109.4	6788.1	6447.0
20°	8889.8	8864.1	8791.2	8670.9	8509.2	8298.3	8049.9	7764.0	7448.5	7109.4	6746.7
17.5°	9268.3	9242.7	9165.8	9041.6	8889.8	8655.1	8398.8	8097.2	7764.0	7405.2	7024.7
15°	9601.5	9573.9	9495.0	9370.8	9197.3	8976.5	8706.4	8398.8	8049.9	7671.3	7273.1
12.5°	9885.4	9857.8	9777.0	9652.8	9473.3	9252.5	8976.5	8655.1	8298.3	7905.9	7491.9
10°	10110.2	10082.6	10005.7	9887.4	9702.0	9473.3	9197.3	8889.8	8509.2	8105.1	7675.3
7.5°	10271.8	10246.2	10175.2	10056.9	9887.4	9652.8	9370.8	9041.6	8670.9	8260.8	7821.2
5°	10394.1	10364.5	10293.5	10175.2	10005.7	9777.0	9495.0	9165.8	8791.2	8375.2	7927.6
2.5°	10478.8	10443.3	10364.5	10246.2	10082.6	9857.8	9573.9	9242.7	8864.1	8446.2	7994.7
0°	10502.5	10478.8	10394.1	10271.8	10110.2	9885.4	9601.5	9268.3	8889.8	8469.8	8016.4

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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°	71.0	71.0	69.0	67.0	65.1	61.1	59.1	57.2	55.2	51.3	49.3
85°	149.8	145.9	142.0	138.0	132.1	128.2	122.2	118.3	112.4	106.5	100.5
82.5°	236.6	230.7	222.8	216.9	209.0	199.1	191.2	181.4	171.5	163.6	153.8
80°	331.2	321.4	311.5	301.6	289.8	278.0	266.2	254.3	240.5	226.7	212.9
77.5°	433.7	419.9	406.1	390.4	376.6	360.8	345.0	329.3	311.5	293.8	276.0
75°	548.1	530.3	510.6	490.9	473.2	451.5	429.8	408.1	384.5	362.8	339.1
72.5°	672.3	650.6	627.0	603.3	577.7	550.1	522.5	492.9	465.3	437.7	408.1
70°	806.4	780.7	751.2	721.6	690.0	656.5	623.0	587.5	552.0	516.5	481.1
67.5°	950.3	918.7	883.3	847.8	808.3	768.9	729.5	688.1	644.7	601.3	559.9
65°	1104.1	1064.6	1023.2	977.9	932.5	887.2	839.9	790.6	741.3	690.0	644.7
62.5°	1275.6	1226.3	1173.1	1117.9	1066.6	1011.4	960.1	899.0	839.9	782.7	725.5
60°	1474.7	1409.7	1344.6	1275.6	1210.5	1139.6	1076.5	1009.4	942.4	877.3	810.3
57.5°	1697.5	1614.7	1535.8	1453.0	1366.3	1287.4	1206.6	1125.8	1050.8	973.9	901.0
55°	1949.9	1849.3	1750.7	1648.2	1547.7	1449.1	1346.6	1255.9	1163.2	1076.5	991.7
52.5°	2225.9	2111.5	1989.3	1873.0	1744.8	1622.6	1508.2	1393.9	1285.5	1181.0	1084.4
50°	2521.6	2387.6	2247.6	2105.6	1959.7	1815.8	1677.8	1543.7	1417.6	1295.3	1181.0
47.5°	2829.2	2677.4	2517.7	2356.0	2200.3	2024.8	1859.2	1707.4	1555.6	1417.6	1285.5
45°	3144.6	2973.1	2797.6	2614.3	2430.9	2241.7	2058.3	1873.0	1707.4	1543.7	1393.9
42.5°	3469.9	3276.7	3081.5	2878.5	2675.4	2468.4	2261.4	2058.3	1859.2	1677.8	1508.2
40°	3805.1	3592.2	3369.4	3148.6	2931.7	2695.1	2468.4	2241.7	2024.8	1815.8	1622.6
37.5°	4140.3	3907.6	3667.1	3418.7	3170.3	2931.7	2675.4	2430.9	2200.3	1959.7	1744.8
35°	4477.4	4221.1	3960.9	3690.8	3418.7	3148.6	2878.5	2614.3	2356.0	2105.6	1873.0
32.5°	4816.5	4536.6	4248.7	3960.9	3667.1	3369.4	3081.5	2797.6	2517.7	2247.6	1989.3
30°	5149.7	4846.1	4536.6	4221.1	3907.6	3592.2	3276.7	2973.1	2677.4	2387.6	2111.5
27.5°	5475.0	5149.7	4816.5	4477.4	4140.3	3805.1	3469.9	3144.6	2829.2	2521.6	2225.9
25°	5788.5	5441.5	5084.6	4723.9	4365.0	4008.2	3655.3	3304.3	2973.1	2649.8	2340.2
22.5°	6084.2	5717.5	5341.0	4958.5	4574.0	4197.4	3826.8	3462.1	3109.1	2770.0	2444.7
20°	6368.1	5975.8	5593.3	5175.3	4773.1	4376.9	3988.5	3606.0	3233.4	2880.4	2539.4
17.5°	6626.4	6214.4	5796.4	5376.4	4954.5	4538.5	4132.4	3751.9	3347.7	2981.0	2630.1
15°	6859.1	6429.3	5991.6	5555.9	5116.2	4684.4	4262.5	3852.4	3452.2	3071.7	2708.9
12.5°	7062.1	6616.6	6163.1	5711.6	5260.1	4812.6	4376.9	3953.0	3542.9	3148.6	2776.0
10°	7229.7	6774.3	6307.0	5841.7	5378.4	4919.0	4469.5	4037.8	3617.8	3213.6	2831.2
7.5°	7365.7	6898.5	6423.3	5944.2	5471.1	5001.8	4544.4	4102.8	3677.0	3262.9	2874.5
5°	7462.3	6989.2	6506.1	6017.2	5538.1	5063.0	4597.7	4150.1	3718.4	3298.4	2906.1
2.5°	7523.5	7062.1	6573.2	6078.3	5593.3	5112.3	4641.0	4187.6	3751.9	3328.0	2931.7
0°	7543.2	7062.1	6573.2	6078.3	5593.3	5112.3	4641.0	4187.6	3751.9	3328.0	2931.7

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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°	47.3	43.4	39.4	37.5	33.5	31.5	27.6	23.7	21.7	17.7	13.8
85°	94.6	86.7	80.8	74.9	69.0	61.1	55.2	49.3	41.4	35.5	27.6
82.5°	143.9	134.1	124.2	114.4	104.5	94.6	82.8	72.9	63.1	53.2	41.4
80°	199.1	183.4	169.6	155.8	142.0	128.2	112.4	98.6	82.8	69.0	55.2
77.5°	256.3	238.6	218.8	199.1	179.4	161.7	142.0	124.2	106.5	86.7	69.0
75°	317.4	293.8	272.1	246.4	222.8	197.2	173.5	149.8	128.2	106.5	82.8
72.5°	380.5	350.9	321.4	293.8	264.2	234.6	207.0	177.4	149.8	124.2	98.6
70°	445.6	410.1	374.6	341.1	307.6	272.1	240.5	207.0	173.5	142.0	112.4
67.5°	514.6	473.2	431.8	388.4	350.9	311.5	272.1	234.6	197.2	161.7	128.2
65°	589.5	540.2	488.9	443.6	394.3	350.9	307.6	264.2	222.8	179.4	142.0
62.5°	666.4	609.2	552.0	494.9	443.6	388.4	341.1	293.8	246.4	199.1	155.8
60°	745.2	680.2	615.1	552.0	488.9	431.8	374.6	321.4	272.1	218.8	169.6
57.5°	826.1	753.1	680.2	609.2	540.2	473.2	410.1	350.9	293.8	238.6	183.4
55°	908.9	826.1	745.2	666.4	589.5	514.6	445.6	380.5	317.4	256.3	199.1
52.5°	991.7	901.0	810.3	725.5	644.7	559.9	481.1	408.1	339.1	276.0	212.9
50°	1076.5	973.9	877.3	782.7	690.0	601.3	516.5	437.7	362.8	293.8	226.7
47.5°	1163.2	1050.8	942.4	839.9	741.3	644.7	552.0	465.3	384.5	311.5	240.5
45°	1255.9	1125.8	1009.4	899.0	790.6	688.1	587.5	492.9	408.1	329.3	254.3
42.5°	1346.6	1206.6	1076.5	960.1	839.9	729.5	623.0	522.5	429.8	345.0	266.2
40°	1449.1	1287.4	1139.6	1011.4	887.2	768.9	656.5	550.1	451.5	360.8	278.0
37.5°	1547.7	1366.3	1210.5	1066.6	932.5	808.3	690.0	577.7	473.2	376.6	289.8
35°	1648.2	1453.0	1275.6	1117.9	977.9	847.8	721.6	603.3	490.9	390.4	301.6
32.5°	1750.7	1535.8	1344.6	1173.1	1023.2	883.3	751.2	627.0	510.6	406.1	311.5
30°	1849.3	1614.7	1409.7	1226.3	1064.6	918.7	780.7	650.6	530.3	419.9	321.4
27.5°	1949.9	1697.5	1474.7	1275.6	1104.1	950.3	806.4	672.3	548.1	433.7	331.2
25°	2046.5	1776.4	1535.8	1322.9	1139.6	981.8	834.0	694.0	563.9	445.6	339.1
22.5°	2135.2	1845.4	1591.0	1368.3	1177.0	1009.4	857.6	713.7	579.6	457.4	347.0
20°	2216.0	1916.4	1648.2	1413.6	1212.5	1037.0	877.3	731.4	593.4	467.3	354.9
17.5°	2294.9	1981.4	1699.5	1455.0	1242.1	1060.7	897.1	745.2	605.3	475.1	360.8
15°	2361.9	2038.6	1744.8	1490.5	1269.7	1080.4	912.8	759.1	615.1	483.0	364.7
12.5°	2421.1	2087.9	1784.3	1520.1	1291.4	1098.2	928.6	770.9	625.0	488.9	370.7
10°	2468.4	2127.3	1815.8	1545.7	1311.1	1112.0	938.5	780.7	630.9	494.9	374.6
7.5°	2505.9	2158.9	1841.4	1563.4	1324.9	1123.8	948.3	786.7	636.8	498.8	380.5
5°	2533.5	2182.5	1859.2	1577.2	1336.7	1137.6	960.1	796.5	644.7	504.7	380.5
2.5°	2555.1	2200.3	1873.0	1589.1	1344.6	1137.6	960.1	796.5	644.7	504.7	380.5
0°	2555.1	2200.3	1873.0	1589.1	1344.6	1137.6	960.1	796.5	644.7	504.7	380.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.9	7.9	3.9	0.0
85°	21.7	13.8	7.9	0.0
82.5°	31.5	21.7	9.9	0.0
80°	41.4	27.6	13.8	0.0
77.5°	53.2	35.5	17.7	0.0
75°	63.1	41.4	21.7	0.0
72.5°	72.9	49.3	23.7	0.0
70°	82.8	55.2	27.6	0.0
67.5°	94.6	61.1	31.5	0.0
65°	104.5	69.0	33.5	0.0
62.5°	114.4	74.9	37.5	0.0
60°	124.2	80.8	39.4	0.0
57.5°	134.1	86.7	43.4	0.0
55°	143.9	94.6	47.3	0.0
52.5°	153.8	100.5	49.3	0.0
50°	163.6	106.5	51.3	0.0
47.5°	171.5	112.4	55.2	0.0
45°	181.4	118.3	57.2	0.0
42.5°	191.2	122.2	59.1	0.0
40°	199.1	128.2	61.1	0.0
37.5°	209.0	132.1	65.1	0.0
35°	216.9	138.0	67.0	0.0
32.5°	222.8	142.0	69.0	0.0
30°	230.7	145.9	71.0	0.0
27.5°	236.6	149.8	71.0	0.0
25°	242.5	153.8	72.9	0.0
22.5°	248.4	155.8	74.9	0.0
20°	254.3	159.7	76.9	0.0
17.5°	258.3	161.7	76.9	0.0
15°	262.2	163.6	80.8	0.0
12.5°	264.2	165.6	80.8	0.0
10°	268.1	169.6	80.8	0.0
7.5°	272.1	169.6	80.8	0.0
5°	272.1	169.6	80.8	0.0
2.5°	272.1	169.6	80.8	0.0
0°	272.1	169.6	80.8	0.0

(END OF REPORT)