

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: P623971

Luminaire Tested: **IFLD-M-SA4A-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623971
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

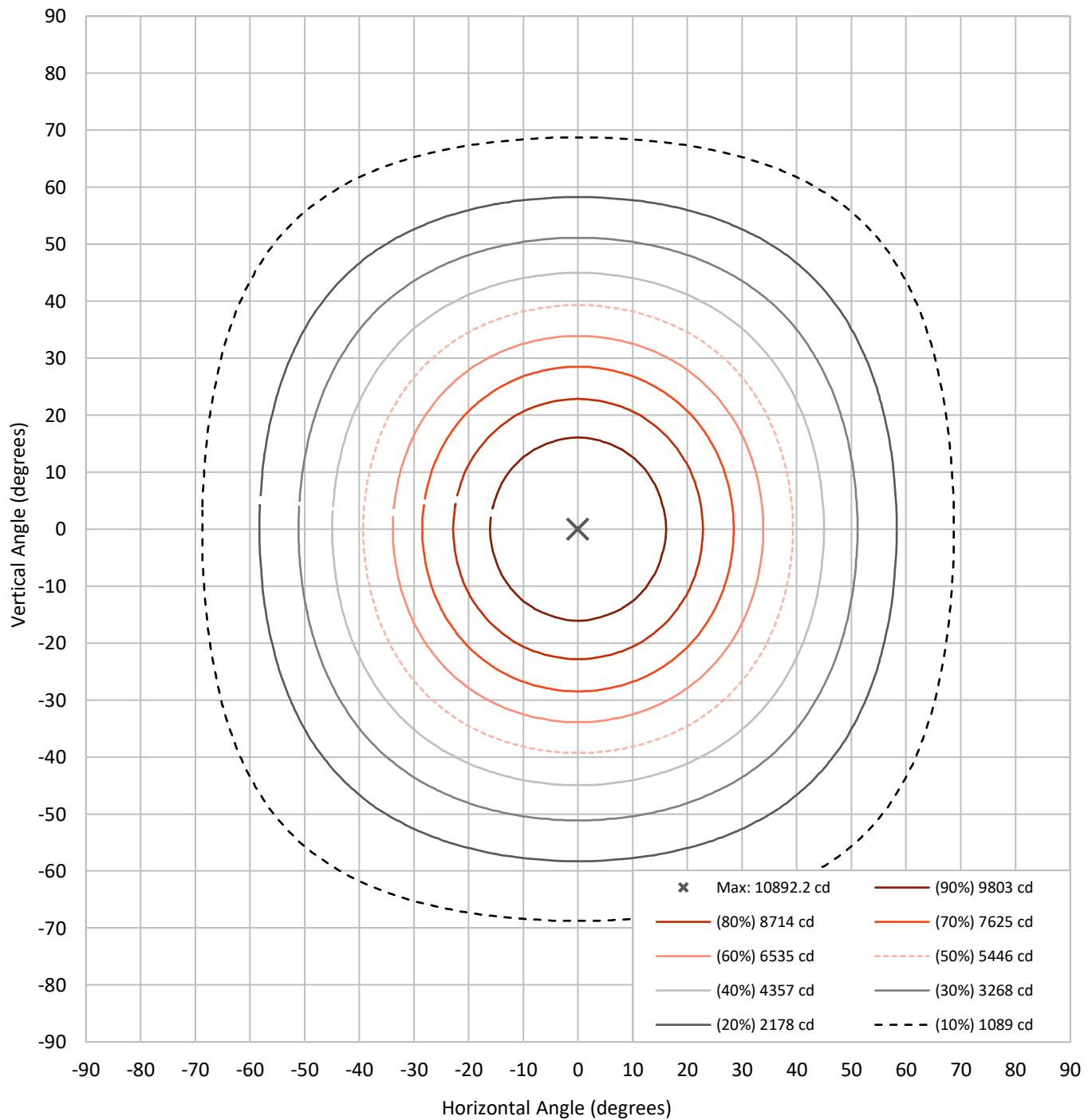
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19611.7 lumens	Max Intensity:	10892.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	152.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	8485.8 lumens	Field Lumens:	13895.2 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



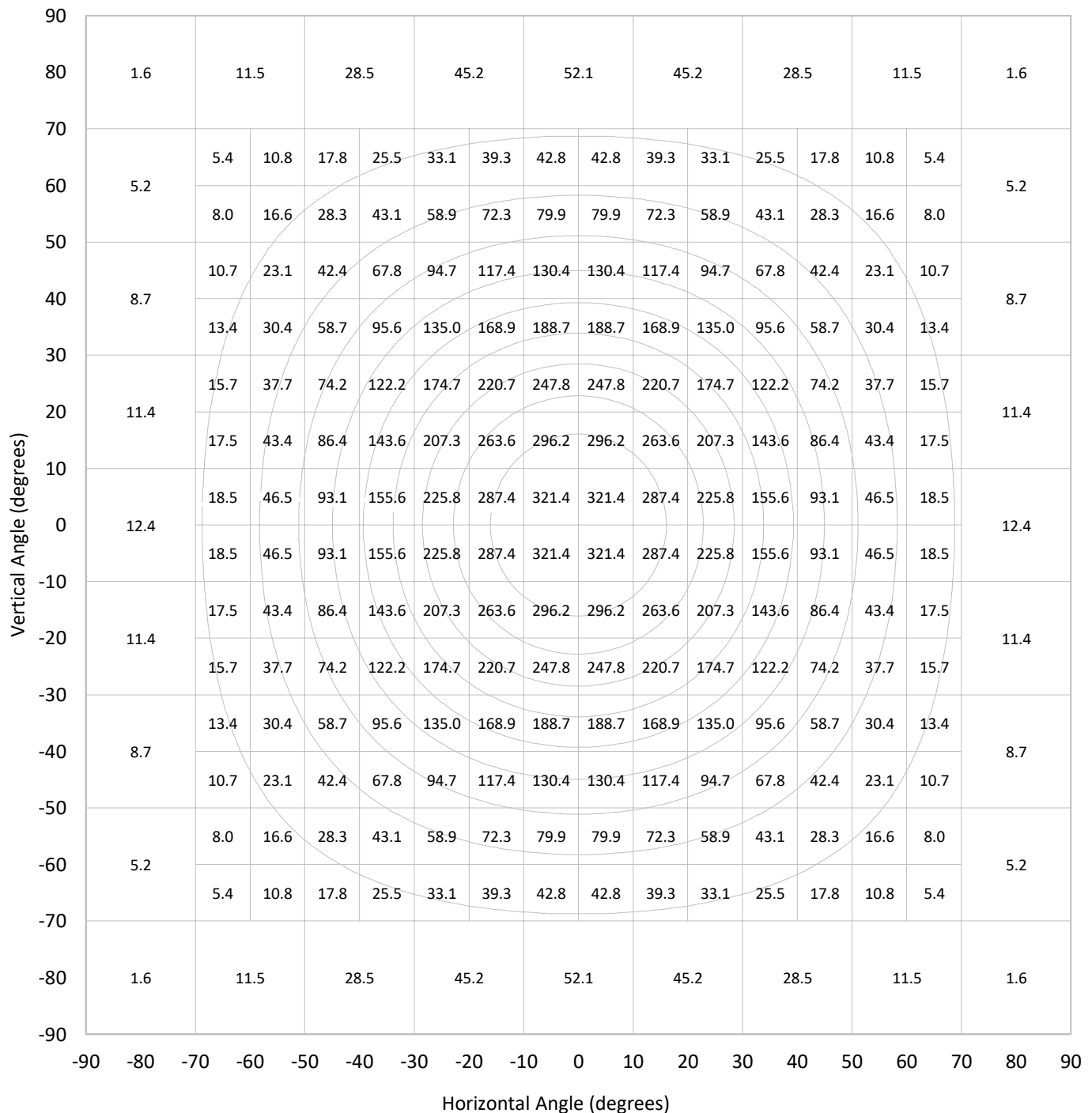
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Iso-Candela Plot



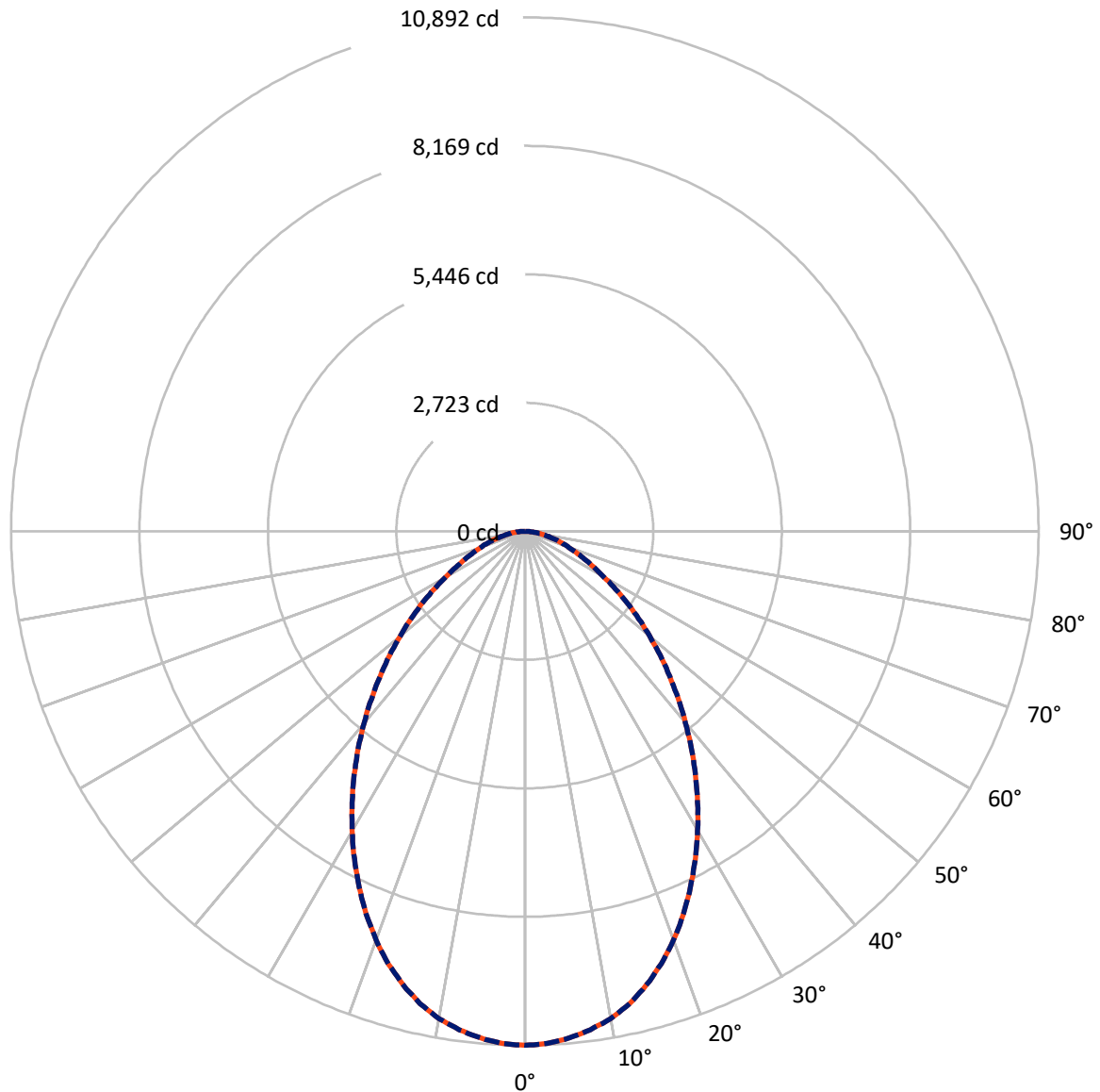
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Lumen Table



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Luminous Intensity Polar Plot

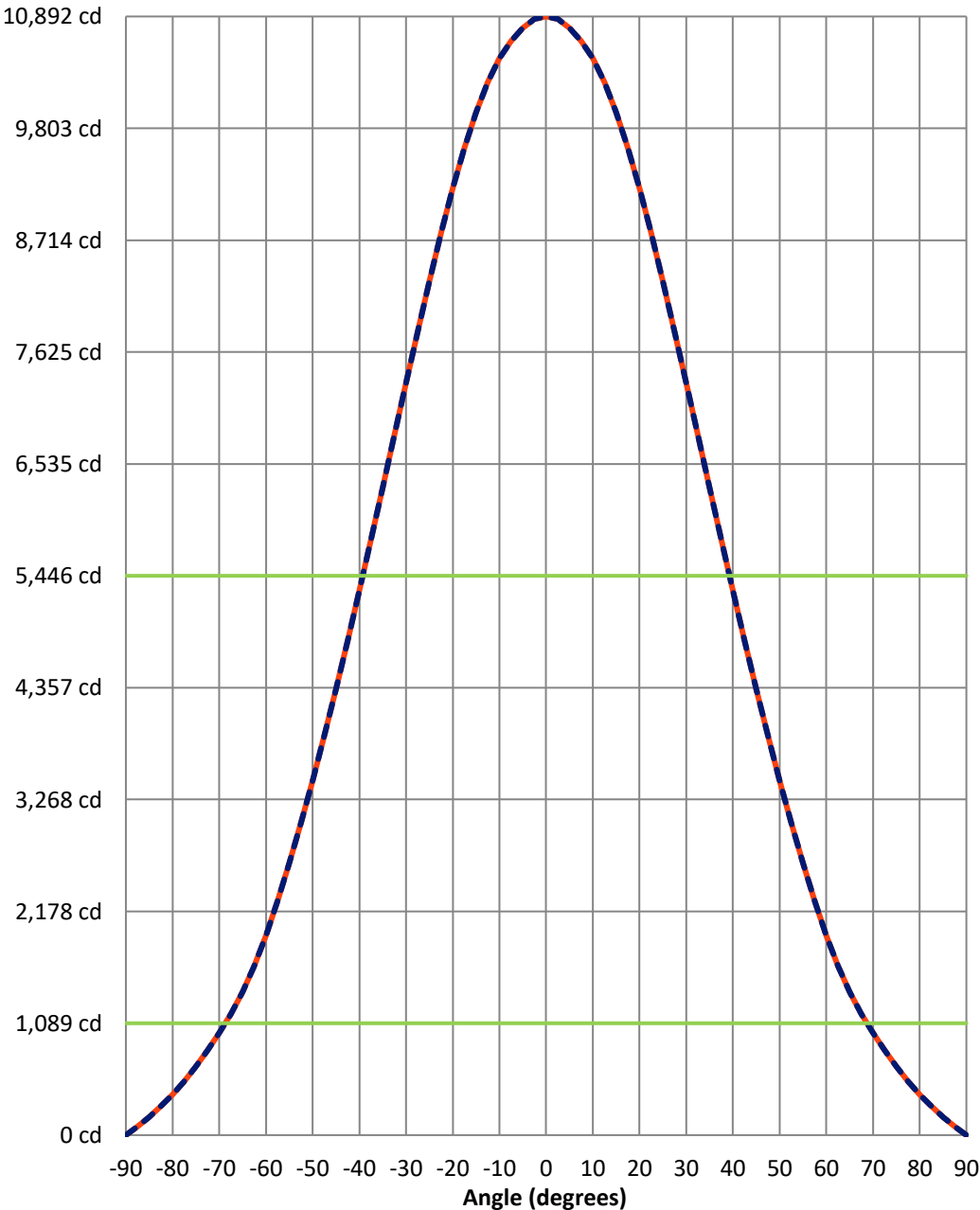


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 8485.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 13895.2
Efficiency: 70.9%

Spill:
Lumens: 5716.5
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°	83.8	83.8	83.8	83.8	83.8	83.8	83.8	79.7	79.7	77.7	75.7
85°	175.8	175.8	175.8	175.8	175.8	171.8	169.7	167.7	165.6	161.5	159.5
82.5°	282.2	282.2	282.2	282.2	278.1	274.0	271.9	267.9	263.8	257.6	251.5
80°	394.6	394.6	394.6	394.6	388.5	384.4	378.3	374.2	368.0	359.9	351.7
77.5°	523.4	523.4	523.4	517.3	513.2	507.1	501.0	492.8	484.6	474.4	462.1
75°	668.6	668.6	668.6	660.4	654.3	648.2	638.0	627.7	615.5	601.1	584.8
72.5°	826.1	826.1	826.1	815.8	809.7	799.5	787.2	772.9	758.6	740.2	719.7
70°	995.8	995.8	995.8	983.5	973.3	963.1	946.7	930.3	909.9	889.5	864.9
67.5°	1179.8	1179.8	1179.8	1165.5	1153.2	1138.9	1120.5	1100.1	1075.5	1046.9	1018.3
65°	1394.5	1394.5	1386.3	1374.1	1359.7	1339.3	1316.8	1288.2	1257.5	1220.7	1181.8
62.5°	1648.0	1648.0	1635.8	1621.5	1603.1	1576.5	1545.8	1509.0	1466.1	1419.0	1372.0
60°	1942.5	1942.5	1928.2	1909.8	1883.2	1850.5	1809.6	1762.5	1709.4	1650.1	1592.8
57.5°	2281.9	2281.9	2263.5	2239.0	2206.3	2165.4	2114.2	2054.9	1987.5	1913.9	1842.3
55°	2650.0	2650.0	2627.5	2598.8	2560.0	2510.9	2449.6	2380.1	2298.3	2214.4	2122.4
52.5°	3040.5	3040.5	3013.9	2981.2	2936.2	2879.0	2809.4	2727.7	2633.6	2535.5	2427.1
50°	3451.5	3451.5	3420.8	3384.0	3332.9	3265.4	3185.7	3091.6	2987.3	2872.8	2748.1
47.5°	3891.1	3891.1	3856.3	3813.4	3752.1	3674.4	3580.3	3471.9	3353.3	3224.5	3083.4
45°	4343.0	4343.0	4304.1	4255.1	4187.6	4099.7	3995.4	3891.1	3739.8	3590.5	3427.0
42.5°	4813.3	4813.3	4768.3	4713.1	4635.4	4539.3	4420.7	4285.7	4136.5	3968.8	3790.9
40°	5302.0	5302.0	5250.8	5187.5	5101.6	4991.2	4858.3	4706.9	4539.3	4353.2	4156.9
37.5°	5800.9	5800.9	5743.6	5674.1	5578.0	5455.3	5306.0	5138.4	4950.3	4743.8	4527.0
35°	6303.9	6303.9	6240.5	6164.8	6058.5	5923.6	5762.0	5576.0	5367.4	5142.5	4899.1
32.5°	6817.1	6817.1	6747.6	6661.7	6541.1	6391.8	6213.9	6011.5	5800.9	5539.1	5273.3
30°	7324.2	7324.2	7248.5	7154.5	7025.7	6862.1	6667.8	6445.0	6197.5	5929.7	5643.4
27.5°	7823.1	7802.7	7739.3	7639.1	7498.0	7324.2	7113.6	6872.3	6604.4	6310.0	6003.3
25°	8313.8	8291.3	8221.8	8111.4	7960.1	7769.9	7543.0	7285.3	6997.0	6686.2	6350.9
22.5°	8784.1	8759.6	8686.0	8567.4	8405.8	8199.3	7956.0	7680.0	7373.3	7040.0	6686.2
20°	9219.6	9193.1	9117.4	8992.7	8825.0	8606.2	8348.6	8052.1	7725.0	7373.3	6997.0
17.5°	9612.2	9585.6	9505.9	9377.1	9219.6	8976.3	8710.5	8397.7	8052.1	7680.0	7285.3
15°	9957.8	9929.2	9847.4	9718.6	9538.6	9309.6	9029.5	8710.5	8348.6	7956.0	7543.0
12.5°	10252.2	10223.6	10139.8	10010.9	9824.9	9595.9	9309.6	8976.3	8606.2	8199.3	7769.9
10°	10485.3	10456.7	10377.0	10254.3	10062.1	9824.9	9538.6	9219.6	8825.0	8405.8	7960.1
7.5°	10653.0	10626.4	10552.8	10430.1	10254.3	10010.9	9718.6	9377.1	8992.7	8567.4	8111.4
5°	10779.8	10749.1	10675.5	10552.8	10377.0	10139.8	9847.4	9505.9	9117.4	8686.0	8221.8
2.5°	10867.7	10830.9	10749.1	10626.4	10456.7	10223.6	9929.2	9585.6	9193.1	8759.6	8291.3
0°	10892.2	10867.7	10779.8	10653.0	10485.3	10252.2	9957.8	9612.2	9219.6	8784.1	8313.8

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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°	73.6	73.6	71.6	69.5	67.5	63.4	61.3	59.3	57.3	53.2	51.1
85°	155.4	151.3	147.2	143.1	137.0	132.9	126.8	122.7	116.5	110.4	104.3
82.5°	245.4	239.2	231.1	224.9	216.7	206.5	198.3	188.1	177.9	169.7	159.5
80°	343.5	333.3	323.1	312.8	300.6	288.3	276.0	263.8	249.5	235.1	220.8
77.5°	449.8	435.5	421.2	404.9	390.5	374.2	357.8	341.5	323.1	304.7	286.3
75°	568.4	550.0	529.6	509.1	490.7	468.2	445.7	423.3	398.7	376.2	351.7
72.5°	697.2	674.8	650.2	625.7	599.1	570.5	541.9	511.2	482.6	453.9	423.3
70°	836.3	809.7	779.0	748.4	715.7	680.9	646.1	609.3	572.5	535.7	498.9
67.5°	985.6	952.8	916.0	879.2	838.3	797.4	756.5	713.6	668.6	623.6	580.7
65°	1145.0	1104.1	1061.2	1014.2	967.2	920.1	871.1	819.9	768.8	715.7	668.6
62.5°	1322.9	1271.8	1216.6	1159.4	1106.2	1048.9	995.8	932.4	871.1	811.8	752.5
60°	1529.5	1462.0	1394.5	1322.9	1255.5	1181.8	1116.4	1046.9	977.4	909.9	840.4
57.5°	1760.5	1674.6	1592.8	1507.0	1417.0	1335.2	1251.4	1167.5	1089.8	1010.1	934.4
55°	2022.2	1917.9	1815.7	1709.4	1605.1	1502.9	1396.5	1302.5	1206.4	1116.4	1028.5
52.5°	2308.5	2189.9	2063.1	1942.5	1809.6	1682.8	1564.2	1445.6	1333.2	1224.8	1124.6
50°	2615.2	2476.2	2331.0	2183.8	2032.5	1883.2	1740.1	1601.0	1470.2	1343.4	1224.8
47.5°	2934.2	2776.7	2611.1	2443.4	2281.9	2099.9	1928.2	1770.7	1613.3	1470.2	1333.2
45°	3261.3	3083.4	2901.5	2711.3	2521.1	2324.8	2134.7	1942.5	1770.7	1601.0	1445.6
42.5°	3598.7	3398.3	3195.9	2985.3	2774.7	2560.0	2345.3	2134.7	1928.2	1740.1	1564.2
40°	3946.3	3725.5	3494.4	3265.4	3040.5	2795.1	2560.0	2324.8	2099.9	1883.2	1682.8
37.5°	4293.9	4052.6	3803.2	3545.5	3287.9	3040.5	2774.7	2521.1	2281.9	2032.5	1809.6
35°	4643.6	4377.7	4107.8	3827.7	3545.5	3265.4	2985.3	2711.3	2443.4	2183.8	1942.5
32.5°	4995.3	4704.9	4406.4	4107.8	3803.2	3494.4	3195.9	2901.5	2611.1	2331.0	2063.1
30°	5340.8	5025.9	4704.9	4377.7	4052.6	3725.5	3398.3	3083.4	2776.7	2476.2	2189.9
27.5°	5678.2	5340.8	4995.3	4643.6	4293.9	3946.3	3598.7	3261.3	2934.2	2615.2	2308.5
25°	6003.3	5643.4	5273.3	4899.1	4527.0	4156.9	3790.9	3427.0	3083.4	2748.1	2427.1
22.5°	6310.0	5929.7	5539.1	5142.5	4743.8	4353.2	3968.8	3590.5	3224.5	2872.8	2535.5
20°	6604.4	6197.5	5800.9	5367.4	4950.3	4539.3	4136.5	3739.8	3353.3	2987.3	2633.6
17.5°	6872.3	6445.0	6011.5	5576.0	5138.4	4706.9	4285.7	3891.1	3471.9	3091.6	2727.7
15°	7113.6	6667.8	6213.9	5762.0	5306.0	4858.3	4420.7	3995.4	3580.3	3185.7	2809.4
12.5°	7324.2	6862.1	6391.8	5923.6	5455.3	4991.2	4539.3	4099.7	3674.4	3265.4	2879.0
10°	7498.0	7025.7	6541.1	6058.5	5578.0	5101.6	4635.4	4187.6	3752.1	3332.9	2936.2
7.5°	7639.1	7154.5	6661.7	6164.8	5674.1	5187.5	4713.1	4255.1	3813.4	3384.0	2981.2
5°	7739.3	7248.5	6747.6	6240.5	5743.6	5250.8	4768.3	4304.1	3856.3	3420.8	3013.9
2.5°	7802.7	7324.2	6817.1	6303.9	5800.9	5302.0	4813.3	4343.0	3891.1	3451.5	3040.5
0°	7823.1	7324.2	6817.1	6303.9	5800.9	5302.0	4813.3	4343.0	3891.1	3451.5	3040.5

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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°	49.1	45.0	40.9	38.8	34.8	32.7	28.6	24.5	22.5	18.4	14.3
85°	98.1	90.0	83.8	77.7	71.6	63.4	57.3	51.1	42.9	36.8	28.6
82.5°	149.3	139.0	128.8	118.6	108.4	98.1	85.9	75.7	65.4	55.2	42.9
80°	206.5	190.2	175.8	161.5	147.2	132.9	116.5	102.2	85.9	71.6	57.3
77.5°	265.8	247.4	227.0	206.5	186.1	167.7	147.2	128.8	110.4	90.0	71.6
75°	329.2	304.7	282.2	255.6	231.1	204.5	179.9	155.4	132.9	110.4	85.9
72.5°	394.6	364.0	333.3	304.7	274.0	243.3	214.7	184.0	155.4	128.8	102.2
70°	462.1	425.3	388.5	353.7	319.0	282.2	249.5	214.7	179.9	147.2	116.5
67.5°	533.7	490.7	447.8	402.8	364.0	323.1	282.2	243.3	204.5	167.7	132.9
65°	611.4	560.3	507.1	460.1	408.9	364.0	319.0	274.0	231.1	186.1	147.2
62.5°	691.1	631.8	572.5	513.2	460.1	402.8	353.7	304.7	255.6	206.5	161.5
60°	772.9	705.4	638.0	572.5	507.1	447.8	388.5	333.3	282.2	227.0	175.8
57.5°	856.7	781.1	705.4	631.8	560.3	490.7	425.3	364.0	304.7	247.4	190.2
55°	942.6	856.7	772.9	691.1	611.4	533.7	462.1	394.6	329.2	265.8	206.5
52.5°	1028.5	934.4	840.4	752.5	668.6	580.7	498.9	423.3	351.7	286.3	220.8
50°	1116.4	1010.1	909.9	811.8	715.7	623.6	535.7	453.9	376.2	304.7	235.1
47.5°	1206.4	1089.8	977.4	871.1	768.8	668.6	572.5	482.6	398.7	323.1	249.5
45°	1302.5	1167.5	1046.9	932.4	819.9	713.6	609.3	511.2	423.3	341.5	263.8
42.5°	1396.5	1251.4	1116.4	995.8	871.1	756.5	646.1	541.9	445.7	357.8	276.0
40°	1502.9	1335.2	1181.8	1048.9	920.1	797.4	680.9	570.5	468.2	374.2	288.3
37.5°	1605.1	1417.0	1255.5	1106.2	967.2	838.3	715.7	599.1	490.7	390.5	300.6
35°	1709.4	1507.0	1322.9	1159.4	1014.2	879.2	748.4	625.7	509.1	404.9	312.8
32.5°	1815.7	1592.8	1394.5	1216.6	1061.2	916.0	779.0	650.2	529.6	421.2	323.1
30°	1917.9	1674.6	1462.0	1271.8	1104.1	952.8	809.7	674.8	550.0	435.5	333.3
27.5°	2022.2	1760.5	1529.5	1322.9	1145.0	985.6	836.3	697.2	568.4	449.8	343.5
25°	2122.4	1842.3	1592.8	1372.0	1181.8	1018.3	864.9	719.7	584.8	462.1	351.7
22.5°	2214.4	1913.9	1650.1	1419.0	1220.7	1046.9	889.5	740.2	601.1	474.4	359.9
20°	2298.3	1987.5	1709.4	1466.1	1257.5	1075.5	909.9	758.6	615.5	484.6	368.0
17.5°	2380.1	2054.9	1762.5	1509.0	1288.2	1100.1	930.3	772.9	627.7	492.8	374.2
15°	2449.6	2114.2	1809.6	1545.8	1316.8	1120.5	946.7	787.2	638.0	501.0	378.3
12.5°	2510.9	2165.4	1850.5	1576.5	1339.3	1138.9	963.1	799.5	648.2	507.1	384.4
10°	2560.0	2206.3	1883.2	1603.1	1359.7	1153.2	973.3	809.7	654.3	513.2	388.5
7.5°	2598.8	2239.0	1909.8	1621.5	1374.1	1165.5	983.5	815.8	660.4	517.3	394.6
5°	2627.5	2263.5	1928.2	1635.8	1386.3	1179.8	995.8	826.1	668.6	523.4	394.6
2.5°	2650.0	2281.9	1942.5	1648.0	1394.5	1179.8	995.8	826.1	668.6	523.4	394.6
0°	2650.0	2281.9	1942.5	1648.0	1394.5	1179.8	995.8	826.1	668.6	523.4	394.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.2	8.2	4.1	0.0
85°	22.5	14.3	8.2	0.0
82.5°	32.7	22.5	10.2	0.0
80°	42.9	28.6	14.3	0.0
77.5°	55.2	36.8	18.4	0.0
75°	65.4	42.9	22.5	0.0
72.5°	75.7	51.1	24.5	0.0
70°	85.9	57.3	28.6	0.0
67.5°	98.1	63.4	32.7	0.0
65°	108.4	71.6	34.8	0.0
62.5°	118.6	77.7	38.8	0.0
60°	128.8	83.8	40.9	0.0
57.5°	139.0	90.0	45.0	0.0
55°	149.3	98.1	49.1	0.0
52.5°	159.5	104.3	51.1	0.0
50°	169.7	110.4	53.2	0.0
47.5°	177.9	116.5	57.3	0.0
45°	188.1	122.7	59.3	0.0
42.5°	198.3	126.8	61.3	0.0
40°	206.5	132.9	63.4	0.0
37.5°	216.7	137.0	67.5	0.0
35°	224.9	143.1	69.5	0.0
32.5°	231.1	147.2	71.6	0.0
30°	239.2	151.3	73.6	0.0
27.5°	245.4	155.4	73.6	0.0
25°	251.5	159.5	75.7	0.0
22.5°	257.6	161.5	77.7	0.0
20°	263.8	165.6	79.7	0.0
17.5°	267.9	167.7	79.7	0.0
15°	271.9	169.7	83.8	0.0
12.5°	274.0	171.8	83.8	0.0
10°	278.1	175.8	83.8	0.0
7.5°	282.2	175.8	83.8	0.0
5°	282.2	175.8	83.8	0.0
2.5°	282.2	175.8	83.8	0.0
0°	282.2	175.8	83.8	0.0

(END OF REPORT)