

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: P623884

Luminaire Tested: **IFLD-M-SA4A-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623884
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

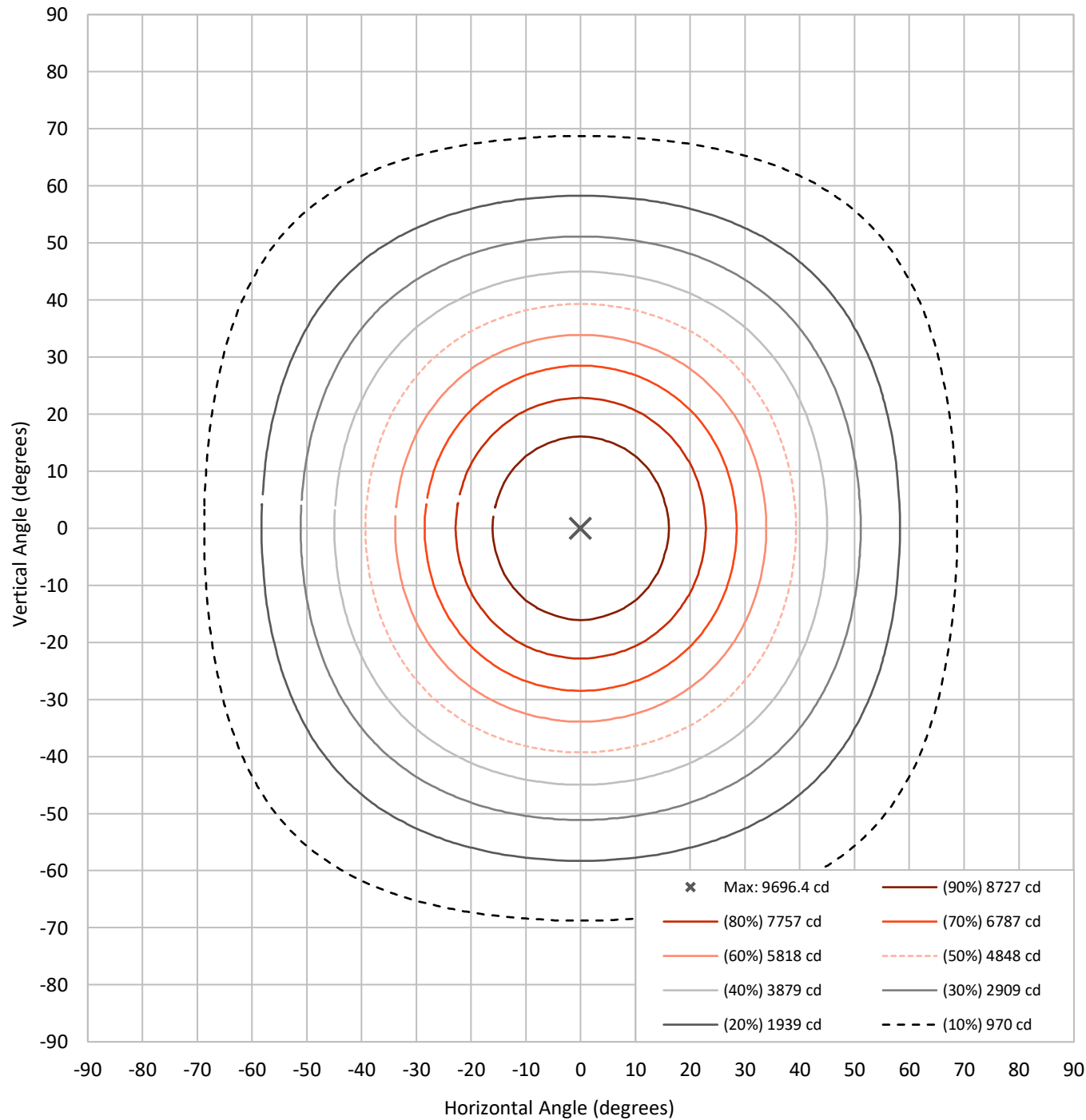
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17458.6 lumens	Max Intensity:	9696.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7554.2 lumens	Field Lumens:	12369.7 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		





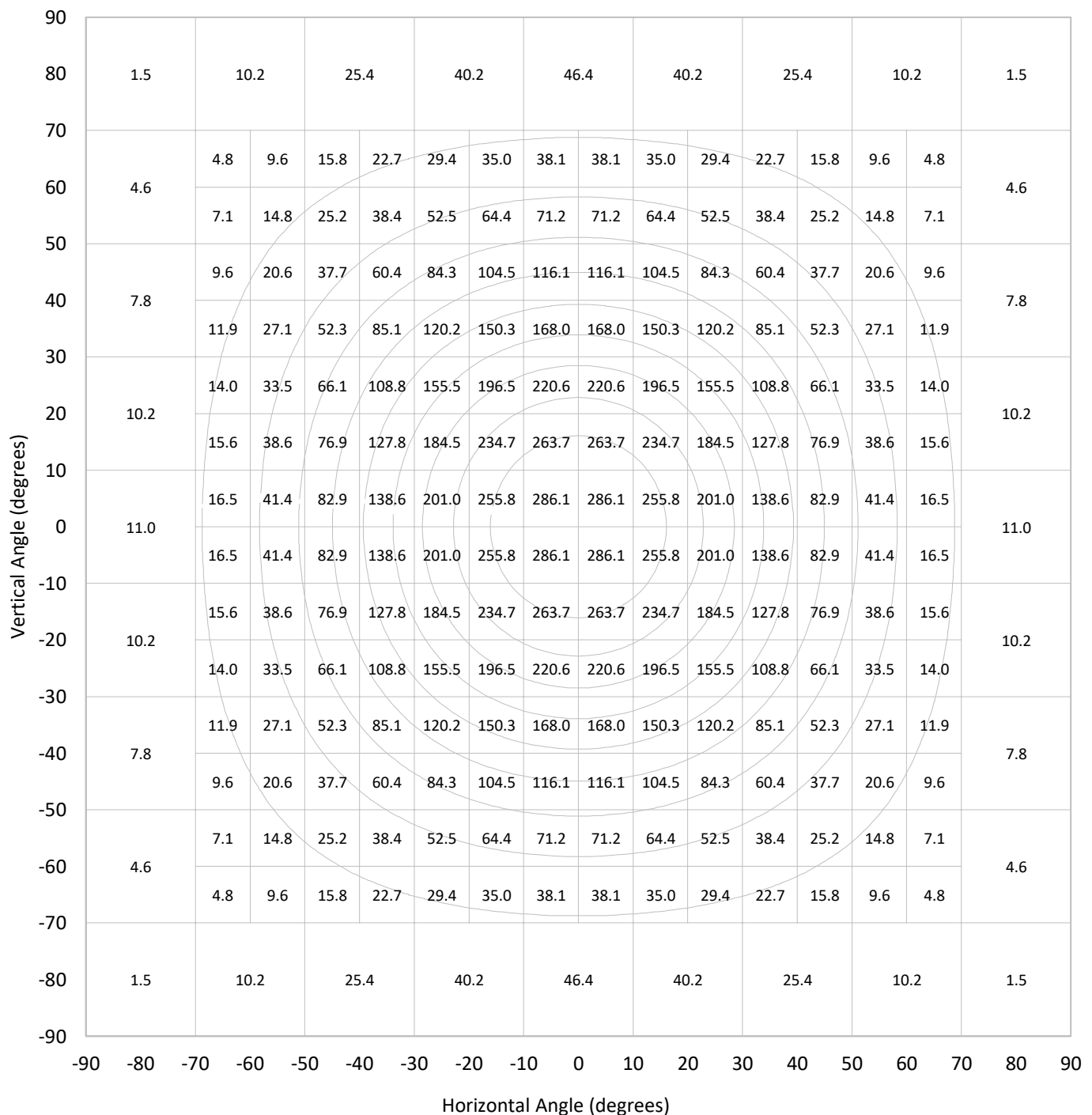
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Iso-Candela Plot



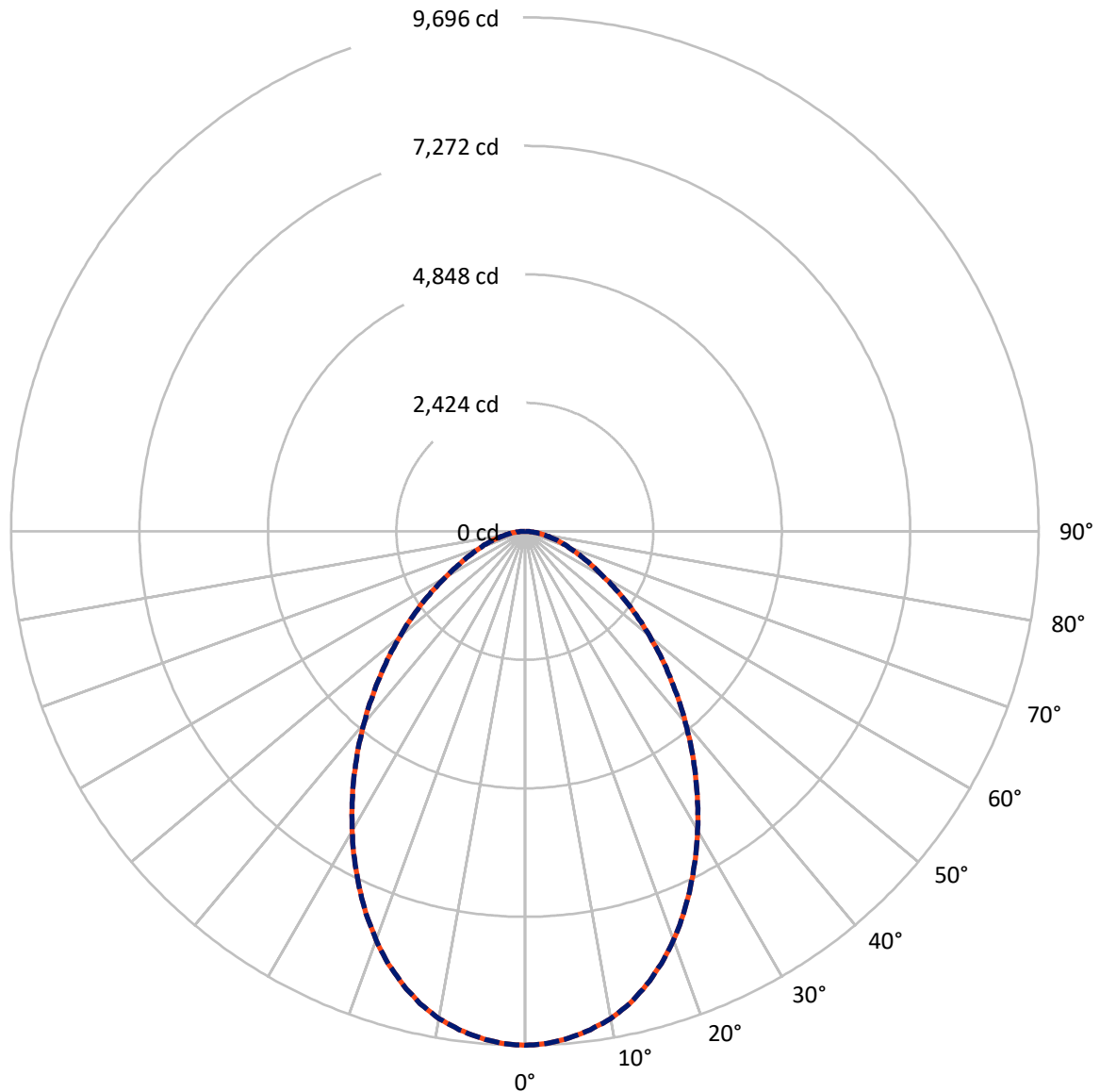
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Lumen Table



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Luminous Intensity Polar Plot

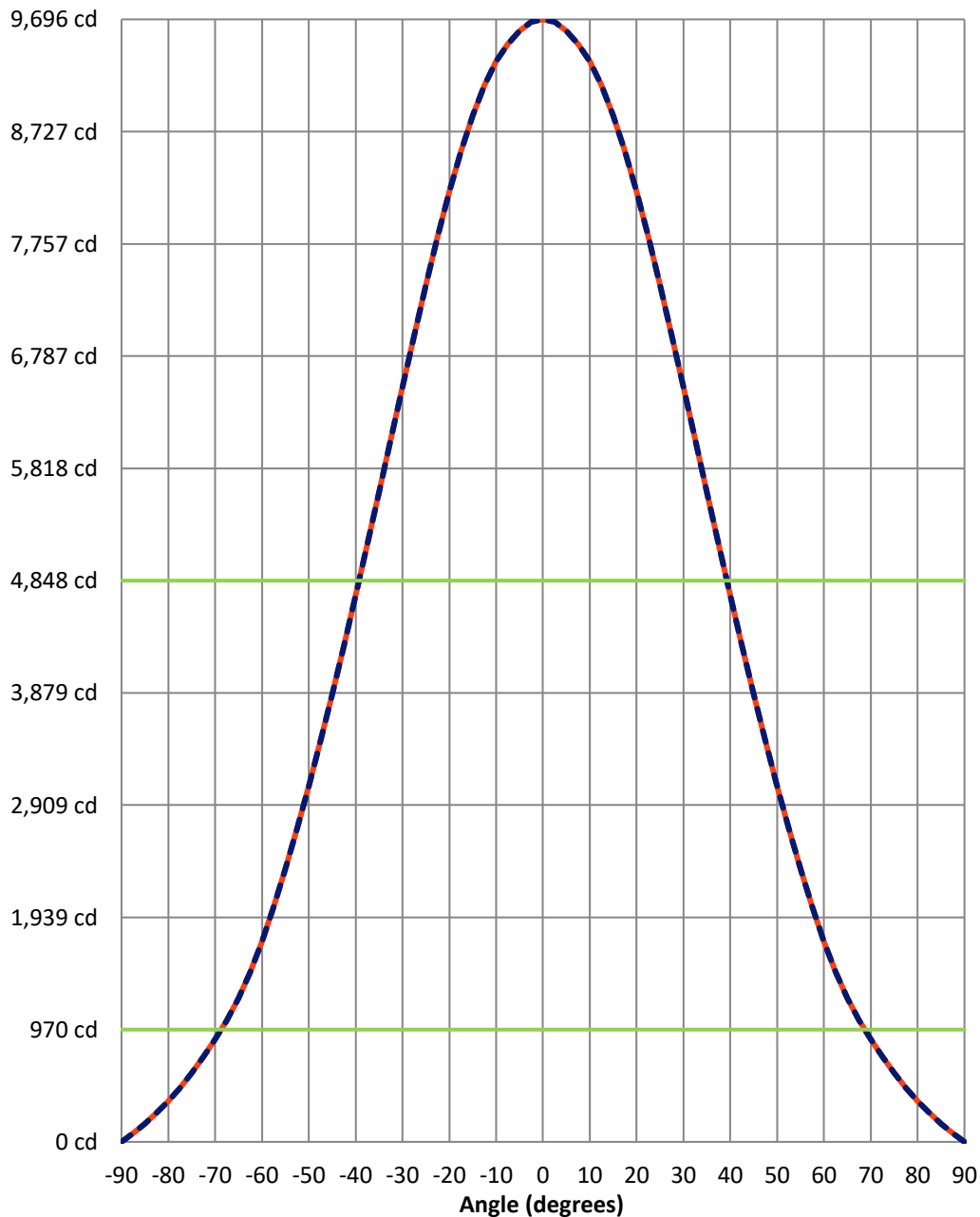


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 7554.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 12369.7
Efficiency: 70.9%

Spill:

Lumens: 5088.9
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°	74.6	74.6	74.6	74.6	74.6	74.6	74.6	71.0	71.0	69.2	67.3
85°	156.5	156.5	156.5	156.5	156.5	152.9	151.1	149.3	147.4	143.8	142.0
82.5°	251.2	251.2	251.2	251.2	247.6	243.9	242.1	238.5	234.8	229.4	223.9
80°	351.3	351.3	351.3	351.3	345.8	342.2	336.7	333.1	327.6	320.4	313.1
77.5°	466.0	466.0	466.0	460.5	456.9	451.4	446.0	438.7	431.4	422.3	411.4
75°	595.2	595.2	595.2	587.9	582.5	577.0	567.9	558.8	547.9	535.2	520.6
72.5°	735.4	735.4	735.4	726.3	720.8	711.7	700.8	688.1	675.3	658.9	640.7
70°	886.5	886.5	886.5	875.5	866.4	857.3	842.8	828.2	810.0	791.8	770.0
67.5°	1050.3	1050.3	1050.3	1037.5	1026.6	1013.9	997.5	979.3	957.4	932.0	906.5
65°	1241.4	1241.4	1234.1	1223.2	1210.5	1192.3	1172.2	1146.8	1119.4	1086.7	1052.1
62.5°	1467.1	1467.1	1456.2	1443.4	1427.1	1403.4	1376.1	1343.3	1305.1	1263.2	1221.4
60°	1729.2	1729.2	1716.5	1700.1	1676.4	1647.3	1610.9	1569.0	1521.7	1468.9	1418.0
57.5°	2031.4	2031.4	2015.0	1993.2	1964.0	1927.6	1882.1	1829.3	1769.3	1703.7	1640.0
55°	2359.0	2359.0	2339.0	2313.5	2278.9	2235.3	2180.6	2118.8	2045.9	1971.3	1889.4
52.5°	2706.7	2706.7	2683.0	2653.9	2613.9	2562.9	2501.0	2428.2	2344.5	2257.1	2160.6
50°	3072.6	3072.6	3045.3	3012.5	2967.0	2906.9	2835.9	2752.2	2659.4	2557.4	2446.4
47.5°	3463.9	3463.9	3433.0	3394.7	3340.1	3271.0	3187.2	3090.8	2985.2	2870.5	2744.9
45°	3866.2	3866.2	3831.6	3787.9	3727.8	3649.6	3556.7	3463.9	3329.2	3196.3	3050.7
42.5°	4284.8	4284.8	4244.8	4195.6	4126.5	4040.9	3935.4	3815.2	3682.3	3533.1	3374.7
40°	4719.9	4719.9	4674.4	4617.9	4541.5	4443.2	4324.9	4190.2	4040.9	3875.3	3700.5
37.5°	5164.0	5164.0	5113.0	5051.2	4965.6	4856.4	4723.5	4574.3	4406.8	4223.0	4030.0
35°	5611.8	5611.8	5555.4	5488.0	5393.4	5273.2	5129.4	4963.8	4778.1	4577.9	4361.3
32.5°	6068.7	6068.7	6006.8	5930.3	5822.9	5690.1	5531.7	5351.5	5164.0	4931.0	4694.4
30°	6520.1	6520.1	6452.7	6369.0	6254.3	6108.7	5935.8	5737.4	5517.1	5278.7	5023.9
27.5°	6964.2	6946.0	6889.6	6800.4	6674.8	6520.1	6332.6	6117.8	5879.4	5617.3	5344.2
25°	7401.1	7381.1	7319.2	7220.9	7086.2	6916.9	6714.9	6485.5	6228.9	5952.2	5653.7
22.5°	7819.7	7797.9	7732.4	7626.8	7483.0	7299.2	7082.5	6836.8	6563.8	6267.1	5952.2
20°	8207.5	8183.8	8116.4	8005.4	7856.1	7661.4	7432.0	7168.1	6876.9	6563.8	6228.9
17.5°	8556.9	8533.3	8462.3	8347.6	8207.5	7990.8	7754.2	7475.7	7168.1	6836.8	6485.5
15°	8864.6	8839.1	8766.3	8651.6	8491.4	8287.5	8038.2	7754.2	7432.0	7082.5	6714.9
12.5°	9126.7	9101.2	9026.6	8911.9	8746.2	8542.4	8287.5	7990.8	7661.4	7299.2	6916.9
10°	9334.2	9308.7	9237.7	9128.5	8957.4	8746.2	8491.4	8207.5	7856.1	7483.0	7086.2
7.5°	9483.4	9459.8	9394.3	9285.0	9128.5	8911.9	8651.6	8347.6	8005.4	7626.8	7220.9
5°	9596.3	9569.0	9503.5	9394.3	9237.7	9026.6	8766.3	8462.3	8116.4	7732.4	7319.2
2.5°	9674.6	9641.8	9569.0	9459.8	9308.7	9101.2	8839.1	8533.3	8183.8	7797.9	7381.1
0°	9696.4	9674.6	9596.3	9483.4	9334.2	9126.7	8864.6	8556.9	8207.5	7819.7	7401.1

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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°	65.5	65.5	63.7	61.9	60.1	56.4	54.6	52.8	51.0	47.3	45.5
85°	138.3	134.7	131.1	127.4	122.0	118.3	112.9	109.2	103.8	98.3	92.8
82.5°	218.4	213.0	205.7	200.2	192.9	183.8	176.6	167.5	158.4	151.1	142.0
80°	305.8	296.7	287.6	278.5	267.6	256.7	245.7	234.8	222.1	209.3	196.6
77.5°	400.5	387.7	375.0	360.4	347.7	333.1	318.5	304.0	287.6	271.2	254.8
75°	506.0	489.6	471.4	453.2	436.9	416.8	396.8	376.8	354.9	334.9	313.1
72.5°	620.7	600.7	578.8	557.0	533.3	507.8	482.4	455.1	429.6	404.1	376.8
70°	744.5	720.8	693.5	666.2	637.1	606.1	575.2	542.4	509.7	476.9	444.1
67.5°	877.4	848.2	815.5	782.7	746.3	709.9	673.5	635.3	595.2	555.2	516.9
65°	1019.3	982.9	944.7	902.8	861.0	819.1	775.4	729.9	684.4	637.1	595.2
62.5°	1177.7	1132.2	1083.0	1032.1	984.7	933.8	886.5	830.0	775.4	722.6	669.8
60°	1361.5	1301.5	1241.4	1177.7	1117.6	1052.1	993.9	932.0	870.1	810.0	748.1
57.5°	1567.2	1490.8	1418.0	1341.5	1261.4	1188.6	1114.0	1039.4	970.2	899.2	831.8
55°	1800.2	1707.4	1616.4	1521.7	1428.9	1337.9	1243.2	1159.5	1073.9	993.9	915.6
52.5°	2055.0	1949.5	1836.6	1729.2	1610.9	1498.1	1392.5	1286.9	1186.8	1090.3	1001.1
50°	2328.1	2204.3	2075.1	1944.0	1809.3	1676.4	1549.0	1425.2	1308.8	1195.9	1090.3
47.5°	2612.0	2471.9	2324.4	2175.2	2031.4	1869.4	1716.5	1576.3	1436.2	1308.8	1186.8
45°	2903.3	2744.9	2582.9	2413.6	2244.4	2069.6	1900.3	1729.2	1576.3	1425.2	1286.9
42.5°	3203.6	3025.2	2845.0	2657.5	2470.1	2278.9	2087.8	1900.3	1716.5	1549.0	1392.5
40°	3513.1	3316.5	3110.8	2906.9	2706.7	2488.3	2278.9	2069.6	1869.4	1676.4	1498.1
37.5°	3822.5	3607.7	3385.6	3156.3	2926.9	2706.7	2470.1	2244.4	2031.4	1809.3	1610.9
35°	4133.8	3897.1	3656.9	3407.5	3156.3	2906.9	2657.5	2413.6	2175.2	1944.0	1729.2
32.5°	4446.8	4188.4	3922.6	3656.9	3385.6	3110.8	2845.0	2582.9	2324.4	2075.1	1836.6
30°	4754.5	4474.1	4188.4	3897.1	3607.7	3316.5	3025.2	2744.9	2471.9	2204.3	1949.5
27.5°	5054.8	4754.5	4446.8	4133.8	3822.5	3513.1	3203.6	2903.3	2612.0	2328.1	2055.0
25°	5344.2	5023.9	4694.4	4361.3	4030.0	3700.5	3374.7	3050.7	2744.9	2446.4	2160.6
22.5°	5617.3	5278.7	4931.0	4577.9	4223.0	3875.3	3533.1	3196.3	2870.5	2557.4	2257.1
20°	5879.4	5517.1	5164.0	4778.1	4406.8	4040.9	3682.3	3329.2	2985.2	2659.4	2344.5
17.5°	6117.8	5737.4	5351.5	4963.8	4574.3	4190.2	3815.2	3463.9	3090.8	2752.2	2428.2
15°	6332.6	5935.8	5531.7	5129.4	4723.5	4324.9	3935.4	3556.7	3187.2	2835.9	2501.0
12.5°	6520.1	6108.7	5690.1	5273.2	4856.4	4443.2	4040.9	3649.6	3271.0	2906.9	2562.9
10°	6674.8	6254.3	5822.9	5393.4	4965.6	4541.5	4126.5	3727.8	3340.1	2967.0	2613.9
7.5°	6800.4	6369.0	5930.3	5488.0	5051.2	4617.9	4195.6	3787.9	3394.7	3012.5	2653.9
5°	6889.6	6452.7	6006.8	5555.4	5113.0	4674.4	4244.8	3831.6	3433.0	3045.3	2683.0
2.5°	6946.0	6520.1	6068.7	5611.8	5164.0	4719.9	4284.8	3866.2	3463.9	3072.6	2706.7
0°	6964.2	6520.1	6068.7	5611.8	5164.0	4719.9	4284.8	3866.2	3463.9	3072.6	2706.7

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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°	43.7	40.0	36.4	34.6	30.9	29.1	25.5	21.8	20.0	16.4	12.7
85°	87.4	80.1	74.6	69.2	63.7	56.4	51.0	45.5	38.2	32.8	25.5
82.5°	132.9	123.8	114.7	105.6	96.5	87.4	76.5	67.3	58.2	49.1	38.2
80°	183.8	169.3	156.5	143.8	131.1	118.3	103.8	91.0	76.5	63.7	51.0
77.5°	236.6	220.2	202.0	183.8	165.6	149.3	131.1	114.7	98.3	80.1	63.7
75°	293.1	271.2	251.2	227.5	205.7	182.0	160.2	138.3	118.3	98.3	76.5
72.5°	351.3	324.0	296.7	271.2	243.9	216.6	191.1	163.8	138.3	114.7	91.0
70°	411.4	378.6	345.8	314.9	284.0	251.2	222.1	191.1	160.2	131.1	103.8
67.5°	475.1	436.9	398.6	358.6	324.0	287.6	251.2	216.6	182.0	149.3	118.3
65°	544.3	498.7	451.4	409.6	364.0	324.0	284.0	243.9	205.7	165.6	131.1
62.5°	615.2	562.5	509.7	456.9	409.6	358.6	314.9	271.2	227.5	183.8	143.8
60°	688.1	628.0	567.9	509.7	451.4	398.6	345.8	296.7	251.2	202.0	156.5
57.5°	762.7	695.3	628.0	562.5	498.7	436.9	378.6	324.0	271.2	220.2	169.3
55°	839.1	762.7	688.1	615.2	544.3	475.1	411.4	351.3	293.1	236.6	183.8
52.5°	915.6	831.8	748.1	669.8	595.2	516.9	444.1	376.8	313.1	254.8	196.6
50°	993.9	899.2	810.0	722.6	637.1	555.2	476.9	404.1	334.9	271.2	209.3
47.5°	1073.9	970.2	870.1	775.4	684.4	595.2	509.7	429.6	354.9	287.6	222.1
45°	1159.5	1039.4	932.0	830.0	729.9	635.3	542.4	455.1	376.8	304.0	234.8
42.5°	1243.2	1114.0	993.9	886.5	775.4	673.5	575.2	482.4	396.8	318.5	245.7
40°	1337.9	1188.6	1052.1	933.8	819.1	709.9	606.1	507.8	416.8	333.1	256.7
37.5°	1428.9	1261.4	1117.6	984.7	861.0	746.3	637.1	533.3	436.9	347.7	267.6
35°	1521.7	1341.5	1177.7	1032.1	902.8	782.7	666.2	557.0	453.2	360.4	278.5
32.5°	1616.4	1418.0	1241.4	1083.0	944.7	815.5	693.5	578.8	471.4	375.0	287.6
30°	1707.4	1490.8	1301.5	1132.2	982.9	848.2	720.8	600.7	489.6	387.7	296.7
27.5°	1800.2	1567.2	1361.5	1177.7	1019.3	877.4	744.5	620.7	506.0	400.5	305.8
25°	1889.4	1640.0	1418.0	1221.4	1052.1	906.5	770.0	640.7	520.6	411.4	313.1
22.5°	1971.3	1703.7	1468.9	1263.2	1086.7	932.0	791.8	658.9	535.2	422.3	320.4
20°	2045.9	1769.3	1521.7	1305.1	1119.4	957.4	810.0	675.3	547.9	431.4	327.6
17.5°	2118.8	1829.3	1569.0	1343.3	1146.8	979.3	828.2	688.1	558.8	438.7	333.1
15°	2180.6	1882.1	1610.9	1376.1	1172.2	997.5	842.8	700.8	567.9	446.0	336.7
12.5°	2235.3	1927.6	1647.3	1403.4	1192.3	1013.9	857.3	711.7	577.0	451.4	342.2
10°	2278.9	1964.0	1676.4	1427.1	1210.5	1026.6	866.4	720.8	582.5	456.9	345.8
7.5°	2313.5	1993.2	1700.1	1443.4	1223.2	1037.5	875.5	726.3	587.9	460.5	351.3
5°	2339.0	2015.0	1716.5	1456.2	1234.1	1050.3	886.5	735.4	595.2	466.0	351.3
2.5°	2359.0	2031.4	1729.2	1467.1	1241.4	1050.3	886.5	735.4	595.2	466.0	351.3
0°	2359.0	2031.4	1729.2	1467.1	1241.4	1050.3	886.5	735.4	595.2	466.0	351.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.1	7.3	3.6	0.0
85°	20.0	12.7	7.3	0.0
82.5°	29.1	20.0	9.1	0.0
80°	38.2	25.5	12.7	0.0
77.5°	49.1	32.8	16.4	0.0
75°	58.2	38.2	20.0	0.0
72.5°	67.3	45.5	21.8	0.0
70°	76.5	51.0	25.5	0.0
67.5°	87.4	56.4	29.1	0.0
65°	96.5	63.7	30.9	0.0
62.5°	105.6	69.2	34.6	0.0
60°	114.7	74.6	36.4	0.0
57.5°	123.8	80.1	40.0	0.0
55°	132.9	87.4	43.7	0.0
52.5°	142.0	92.8	45.5	0.0
50°	151.1	98.3	47.3	0.0
47.5°	158.4	103.8	51.0	0.0
45°	167.5	109.2	52.8	0.0
42.5°	176.6	112.9	54.6	0.0
40°	183.8	118.3	56.4	0.0
37.5°	192.9	122.0	60.1	0.0
35°	200.2	127.4	61.9	0.0
32.5°	205.7	131.1	63.7	0.0
30°	213.0	134.7	65.5	0.0
27.5°	218.4	138.3	65.5	0.0
25°	223.9	142.0	67.3	0.0
22.5°	229.4	143.8	69.2	0.0
20°	234.8	147.4	71.0	0.0
17.5°	238.5	149.3	71.0	0.0
15°	242.1	151.1	74.6	0.0
12.5°	243.9	152.9	74.6	0.0
10°	247.6	156.5	74.6	0.0
7.5°	251.2	156.5	74.6	0.0
5°	251.2	156.5	74.6	0.0
2.5°	251.2	156.5	74.6	0.0
0°	251.2	156.5	74.6	0.0

(END OF REPORT)