

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: P623885

Luminaire Tested: **IFLD-M-SA4B-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

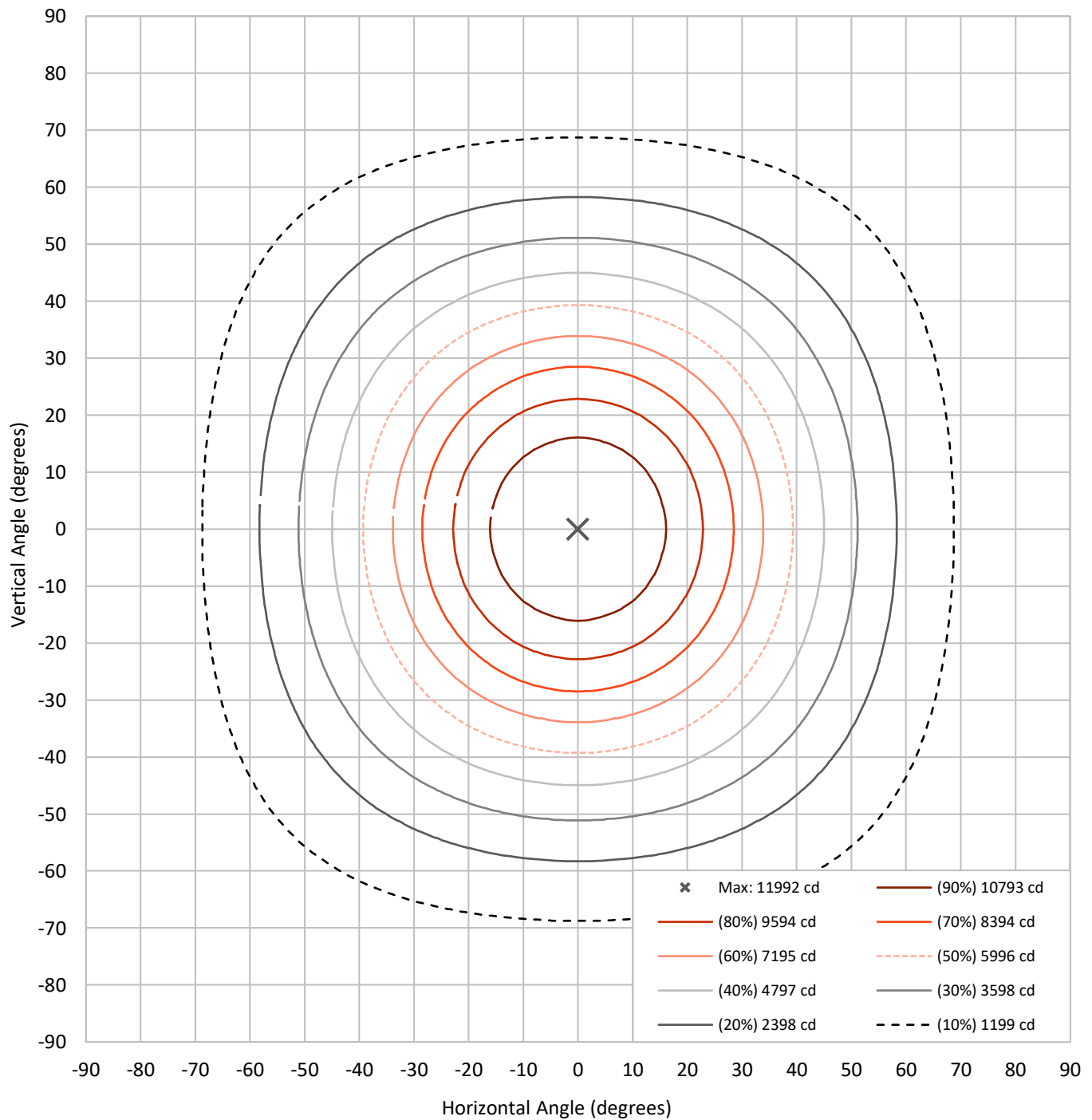
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21591.9 lumens	Max Intensity:	11992 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.0 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:	9342.6 lumens	Field Lumens:	15298.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	166.1		
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		



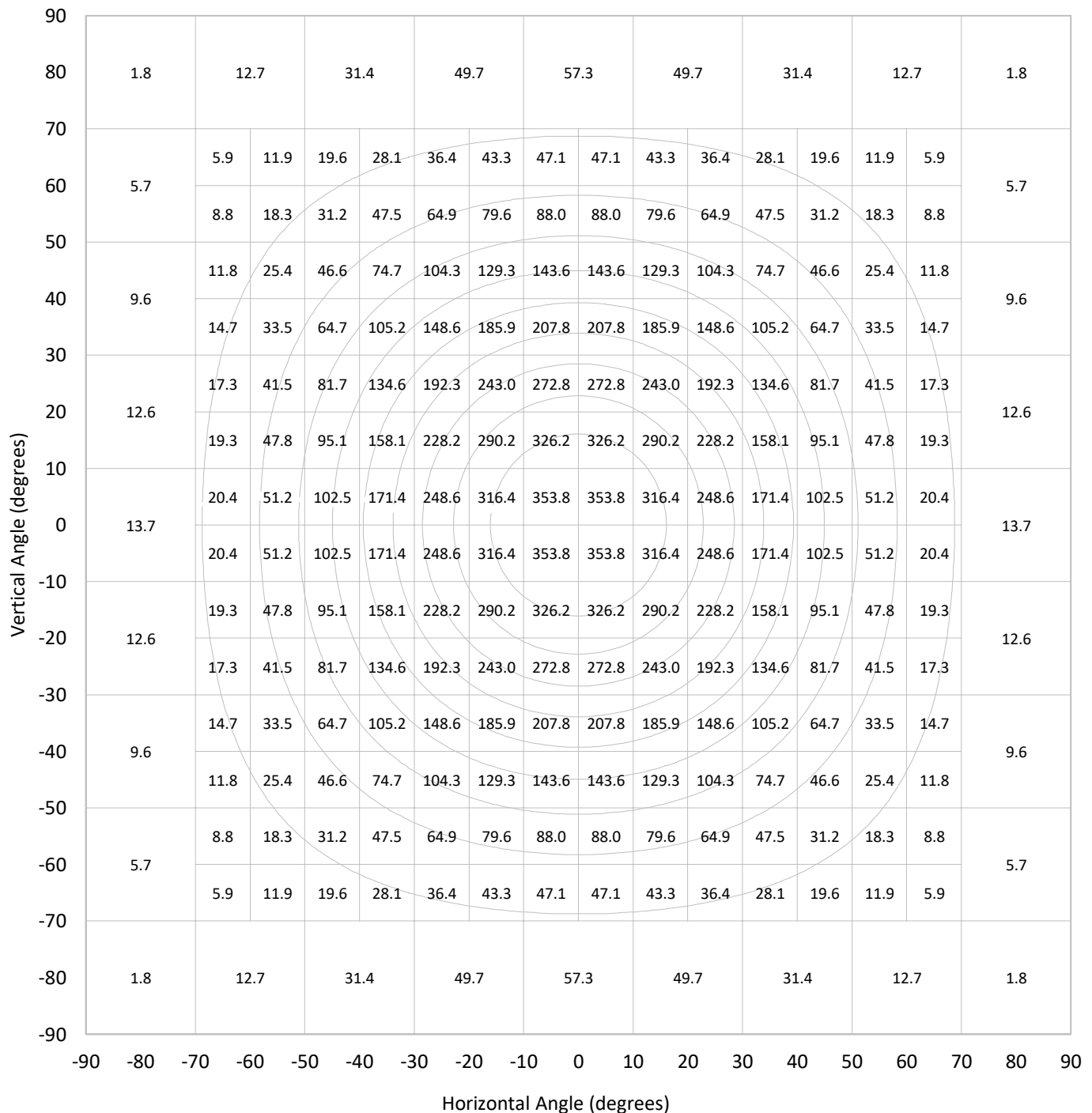
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Iso-Candela Plot



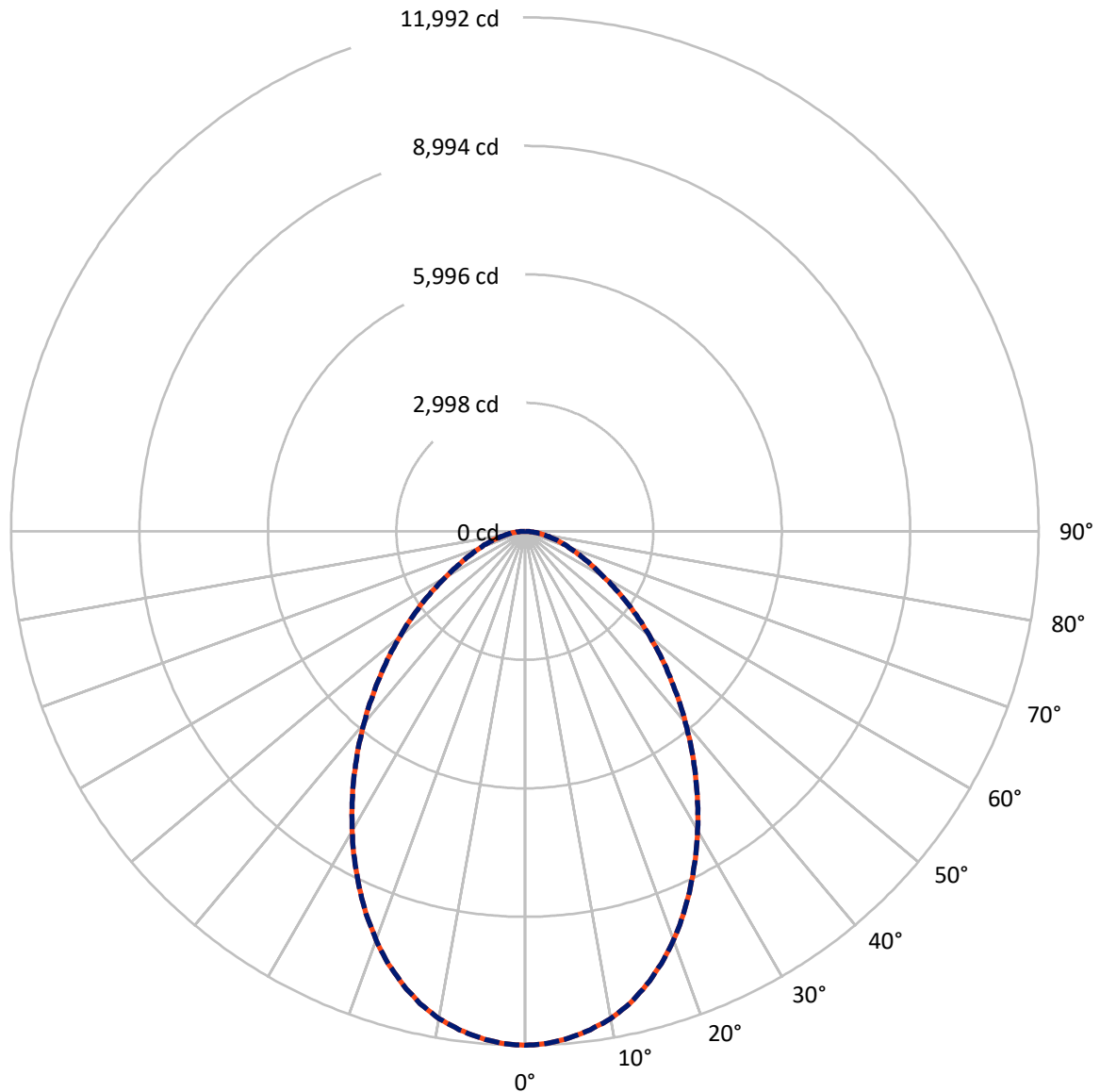
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Lumen Table



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Luminous Intensity Polar Plot

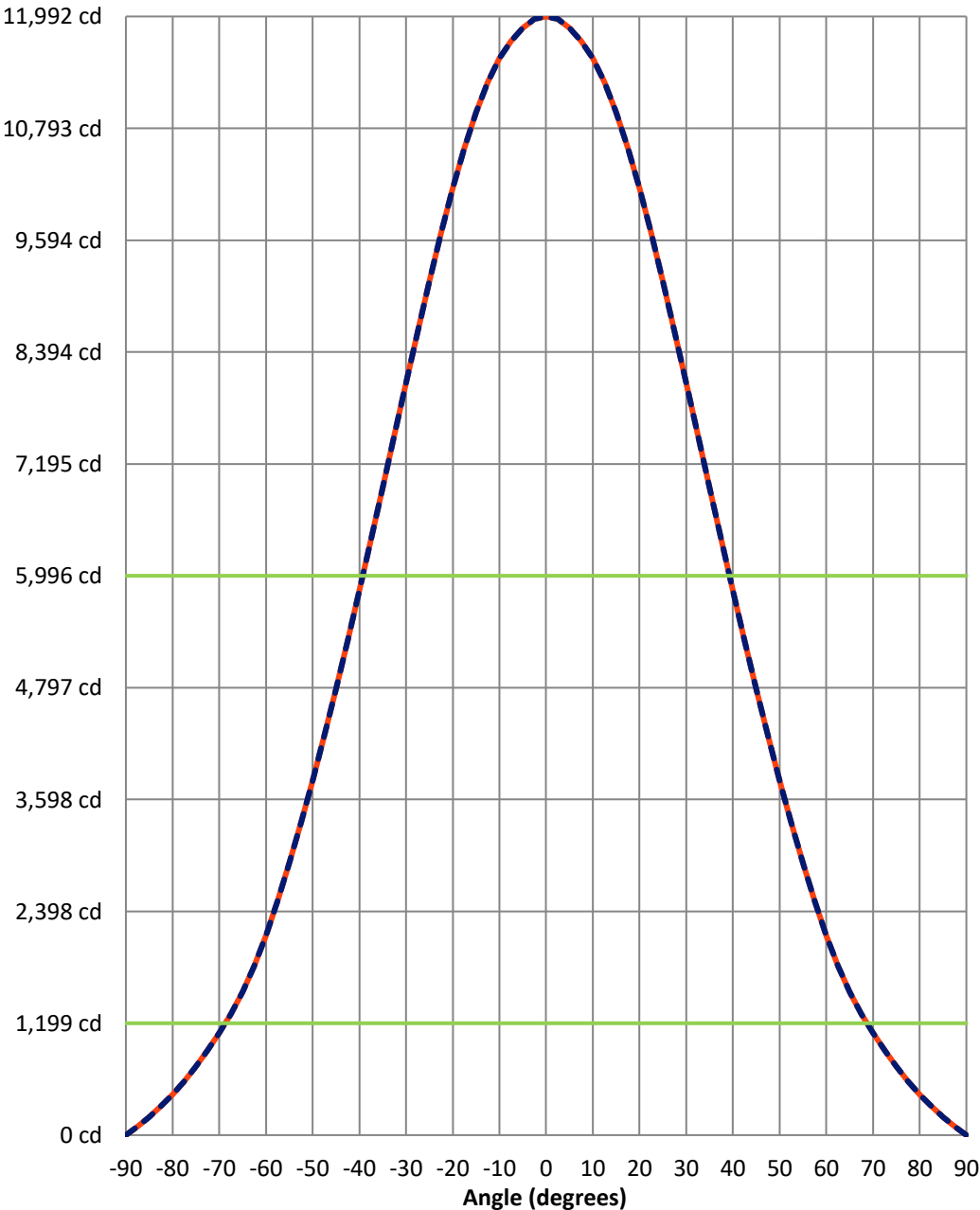


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9342.6
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15298.2
Efficiency: 70.9%

Spill:
Lumens: 6293.7
Efficiency: 29.1%

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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°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	87.8	87.8	85.5	83.3
85°	193.6	193.6	193.6	193.6	193.6	189.1	186.8	184.6	182.3	177.8	175.6
82.5°	310.7	310.7	310.7	310.7	306.2	301.7	299.4	294.9	290.4	283.6	276.9
80°	434.5	434.5	434.5	434.5	427.7	423.2	416.5	412.0	405.2	396.2	387.2
77.5°	576.3	576.3	576.3	569.5	565.0	558.3	551.5	542.5	533.5	522.3	508.8
75°	736.1	736.1	736.1	727.1	720.4	713.6	702.4	691.1	677.6	661.8	643.8
72.5°	909.5	909.5	909.5	898.2	891.5	880.2	866.7	850.9	835.2	814.9	792.4
70°	1096.3	1096.3	1096.3	1082.8	1071.6	1060.3	1042.3	1024.3	1001.8	979.3	952.2
67.5°	1298.9	1298.9	1298.9	1283.2	1269.7	1253.9	1233.6	1211.1	1184.1	1152.6	1121.1
65°	1535.3	1535.3	1526.3	1512.8	1497.0	1474.5	1449.8	1418.2	1384.5	1344.0	1301.2
62.5°	1814.4	1814.4	1800.9	1785.2	1764.9	1735.7	1701.9	1661.4	1614.1	1562.3	1510.5
60°	2138.6	2138.6	2122.9	2102.6	2073.3	2037.3	1992.3	1940.5	1882.0	1816.7	1753.7
57.5°	2512.3	2512.3	2492.0	2465.0	2429.0	2384.0	2327.7	2262.4	2188.1	2107.1	2028.3
55°	2917.5	2917.5	2892.8	2861.2	2818.5	2764.4	2696.9	2620.4	2530.3	2438.0	2336.7
52.5°	3347.5	3347.5	3318.2	3282.2	3232.7	3169.7	3093.1	3003.1	2899.5	2791.5	2672.1
50°	3800.0	3800.0	3766.2	3725.7	3669.4	3595.1	3507.3	3403.8	3289.0	3162.9	3025.6
47.5°	4284.0	4284.0	4245.7	4198.4	4130.9	4045.4	3941.8	3822.5	3691.9	3550.1	3394.8
45°	4781.5	4781.5	4738.7	4684.7	4610.4	4513.6	4398.8	4284.0	4117.4	3953.1	3773.0
42.5°	5299.3	5299.3	5249.7	5189.0	5103.4	4997.6	4867.0	4718.5	4554.1	4369.5	4173.7
40°	5837.3	5837.3	5781.0	5711.2	5616.7	5495.1	5348.8	5182.2	4997.6	4792.7	4576.6
37.5°	6386.6	6386.6	6323.5	6247.0	6141.2	6006.1	5841.8	5657.2	5450.1	5222.7	4984.1
35°	6940.4	6940.4	6870.6	6787.3	6670.2	6521.6	6343.8	6138.9	5909.3	5661.7	5393.8
32.5°	7505.4	7505.4	7428.9	7334.3	7201.5	7037.2	6841.3	6618.4	6386.6	6098.4	5805.8
30°	8063.7	8063.7	7980.4	7876.9	7735.0	7554.9	7341.1	7095.7	6823.3	6528.4	6213.2
27.5°	8613.0	8590.5	8520.7	8410.4	8255.1	8063.7	7831.8	7566.2	7271.3	6947.1	6609.4
25°	9153.3	9128.5	9052.0	8930.4	8763.8	8554.5	8304.6	8020.9	7703.5	7361.3	6992.1
22.5°	9671.0	9644.0	9563.0	9432.4	9254.6	9027.2	8759.3	8455.4	8117.7	7750.8	7361.3
20°	10150.5	10121.3	10038.0	9900.7	9716.1	9475.2	9191.5	8865.1	8504.9	8117.7	7703.5
17.5°	10582.8	10553.5	10465.7	10323.9	10150.5	9882.6	9590.0	9245.6	8865.1	8455.4	8020.9
15°	10963.2	10931.7	10841.6	10699.8	10501.7	10249.6	9941.2	9590.0	9191.5	8759.3	8304.6
12.5°	11287.4	11255.9	11163.6	11021.7	10816.9	10564.8	10249.6	9882.6	9475.2	9027.2	8554.5
10°	11544.0	11512.5	11424.7	11289.6	11078.0	10816.9	10501.7	10150.5	9716.1	9254.6	8763.8
7.5°	11728.6	11699.3	11618.3	11483.2	11289.6	11021.7	10699.8	10323.9	9900.7	9432.4	8930.4
5°	11868.2	11834.4	11753.4	11618.3	11424.7	11163.6	10841.6	10465.7	10038.0	9563.0	9052.0
2.5°	11965.0	11924.5	11834.4	11699.3	11512.5	11255.9	10931.7	10553.5	10121.3	9644.0	9128.5
0°	11992.0	11965.0	11868.2	11728.6	11544.0	11287.4	10963.2	10582.8	10150.5	9671.0	9153.3

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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°	81.0	81.0	78.8	76.5	74.3	69.8	67.5	65.3	63.0	58.5	56.3
85°	171.1	166.6	162.1	157.6	150.8	146.3	139.6	135.1	128.3	121.6	114.8
82.5°	270.1	263.4	254.4	247.6	238.6	227.4	218.4	207.1	195.9	186.8	175.6
80°	378.2	366.9	355.7	344.4	330.9	317.4	303.9	290.4	274.6	258.9	243.1
77.5°	495.3	479.5	463.7	445.7	430.0	412.0	394.0	375.9	355.7	335.4	315.2
75°	625.8	605.6	583.1	560.5	540.3	515.5	490.8	466.0	439.0	414.2	387.2
72.5°	767.6	742.9	715.9	688.9	659.6	628.1	596.6	562.8	531.3	499.8	466.0
70°	920.7	891.5	857.7	823.9	787.9	749.6	711.4	670.8	630.3	589.8	549.3
67.5°	1085.1	1049.0	1008.5	968.0	923.0	878.0	832.9	785.7	736.1	686.6	639.3
65°	1260.7	1215.6	1168.4	1116.6	1064.8	1013.0	959.0	902.7	846.4	787.9	736.1
62.5°	1456.5	1400.2	1339.4	1276.4	1217.9	1154.9	1096.3	1026.5	959.0	893.7	828.4
60°	1683.9	1609.6	1535.3	1456.5	1382.2	1301.2	1229.1	1152.6	1076.1	1001.8	925.2
57.5°	1938.3	1843.7	1753.7	1659.1	1560.1	1470.0	1377.7	1285.4	1199.9	1112.1	1028.8
55°	2226.4	2111.6	1999.0	1882.0	1767.2	1654.6	1537.6	1434.0	1328.2	1229.1	1132.3
52.5°	2541.6	2411.0	2271.4	2138.6	1992.3	1852.7	1722.1	1591.6	1467.8	1348.5	1238.1
50°	2879.3	2726.2	2566.3	2404.3	2237.7	2073.3	1915.7	1762.7	1618.6	1479.0	1348.5
47.5°	3230.4	3057.1	2874.7	2690.2	2512.3	2312.0	2122.9	1949.5	1776.2	1618.6	1467.8
45°	3590.6	3394.8	3194.4	2985.1	2775.7	2559.6	2350.2	2138.6	1949.5	1762.7	1591.6
42.5°	3962.1	3741.4	3518.6	3286.7	3054.8	2818.5	2582.1	2350.2	2122.9	1915.7	1722.1
40°	4344.8	4101.6	3847.3	3595.1	3347.5	3077.4	2818.5	2559.6	2312.0	2073.3	1852.7
37.5°	4727.5	4461.8	4187.2	3903.5	3619.9	3347.5	3054.8	2775.7	2512.3	2237.7	1992.3
35°	5112.4	4819.8	4522.6	4214.2	3903.5	3595.1	3286.7	2985.1	2690.2	2404.3	2138.6
32.5°	5499.6	5179.9	4851.3	4522.6	4187.2	3847.3	3518.6	3194.4	2874.7	2566.3	2271.4
30°	5880.1	5533.4	5179.9	4819.8	4461.8	4101.6	3741.4	3394.8	3057.1	2726.2	2411.0
27.5°	6251.5	5880.1	5499.6	5112.4	4727.5	4344.8	3962.1	3590.6	3230.4	2879.3	2541.6
25°	6609.4	6213.2	5805.8	5393.8	4984.1	4576.6	4173.7	3773.0	3394.8	3025.6	2672.1
22.5°	6947.1	6528.4	6098.4	5661.7	5222.7	4792.7	4369.5	3953.1	3550.1	3162.9	2791.5
20°	7271.3	6823.3	6386.6	5909.3	5450.1	4997.6	4554.1	4117.4	3691.9	3289.0	2899.5
17.5°	7566.2	7095.7	6618.4	6138.9	5657.2	5182.2	4718.5	4284.0	3822.5	3403.8	3003.1
15°	7831.8	7341.1	6841.3	6343.8	5841.8	5348.8	4867.0	4398.8	3941.8	3507.3	3093.1
12.5°	8063.7	7554.9	7037.2	6521.6	6006.1	5495.1	4997.6	4513.6	4045.4	3595.1	3169.7
10°	8255.1	7735.0	7201.5	6670.2	6141.2	5616.7	5103.4	4610.4	4130.9	3669.4	3232.7
7.5°	8410.4	7876.9	7334.3	6787.3	6247.0	5711.2	5189.0	4684.7	4198.4	3725.7	3282.2
5°	8520.7	7980.4	7428.9	6870.6	6323.5	5781.0	5249.7	4738.7	4245.7	3766.2	3318.2
2.5°	8590.5	8063.7	7505.4	6940.4	6386.6	5837.3	5299.3	4781.5	4284.0	3800.0	3347.5
0°	8613.0	8063.7	7505.4	6940.4	6386.6	5837.3	5299.3	4781.5	4284.0	3800.0	3347.5

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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°	54.0	49.5	45.0	42.8	38.3	36.0	31.5	27.0	24.8	20.3	15.8
85°	108.1	99.1	92.3	85.5	78.8	69.8	63.0	56.3	47.3	40.5	31.5
82.5°	164.3	153.1	141.8	130.6	119.3	108.1	94.5	83.3	72.0	60.8	47.3
80°	227.4	209.4	193.6	177.8	162.1	146.3	128.3	112.6	94.5	78.8	63.0
77.5°	292.7	272.4	249.9	227.4	204.9	184.6	162.1	141.8	121.6	99.1	78.8
75°	362.4	335.4	310.7	281.4	254.4	225.1	198.1	171.1	146.3	121.6	94.5
72.5°	434.5	400.7	366.9	335.4	301.7	267.9	236.4	202.6	171.1	141.8	112.6
70°	508.8	468.2	427.7	389.5	351.2	310.7	274.6	236.4	198.1	162.1	128.3
67.5°	587.6	540.3	493.0	443.5	400.7	355.7	310.7	267.9	225.1	184.6	146.3
65°	673.1	616.8	558.3	506.5	450.2	400.7	351.2	301.7	254.4	204.9	162.1
62.5°	760.9	695.6	630.3	565.0	506.5	443.5	389.5	335.4	281.4	227.4	177.8
60°	850.9	776.7	702.4	630.3	558.3	493.0	427.7	366.9	310.7	249.9	193.6
57.5°	943.2	859.9	776.7	695.6	616.8	540.3	468.2	400.7	335.4	272.4	209.4
55°	1037.8	943.2	850.9	760.9	673.1	587.6	508.8	434.5	362.4	292.7	227.4
52.5°	1132.3	1028.8	925.2	828.4	736.1	639.3	549.3	466.0	387.2	315.2	243.1
50°	1229.1	1112.1	1001.8	893.7	787.9	686.6	589.8	499.8	414.2	335.4	258.9
47.5°	1328.2	1199.9	1076.1	959.0	846.4	736.1	630.3	531.3	439.0	355.7	274.6
45°	1434.0	1285.4	1152.6	1026.5	902.7	785.7	670.8	562.8	466.0	375.9	290.4
42.5°	1537.6	1377.7	1229.1	1096.3	959.0	832.9	711.4	596.6	490.8	394.0	303.9
40°	1654.6	1470.0	1301.2	1154.9	1013.0	878.0	749.6	628.1	515.5	412.0	317.4
37.5°	1767.2	1560.1	1382.2	1217.9	1064.8	923.0	787.9	659.6	540.3	430.0	330.9
35°	1882.0	1659.1	1456.5	1276.4	1116.6	968.0	823.9	688.9	560.5	445.7	344.4
32.5°	1999.0	1753.7	1535.3	1339.4	1168.4	1008.5	857.7	715.9	583.1	463.7	355.7
30°	2111.6	1843.7	1609.6	1400.2	1215.6	1049.0	891.5	742.9	605.6	479.5	366.9
27.5°	2226.4	1938.3	1683.9	1456.5	1260.7	1085.1	920.7	767.6	625.8	495.3	378.2
25°	2336.7	2028.3	1753.7	1510.5	1301.2	1121.1	952.2	792.4	643.8	508.8	387.2
22.5°	2438.0	2107.1	1816.7	1562.3	1344.0	1152.6	979.3	814.9	661.8	522.3	396.2
20°	2530.3	2188.1	1882.0	1614.1	1384.5	1184.1	1001.8	835.2	677.6	533.5	405.2
17.5°	2620.4	2262.4	1940.5	1661.4	1418.2	1211.1	1024.3	850.9	691.1	542.5	412.0
15°	2696.9	2327.7	1992.3	1701.9	1449.8	1233.6	1042.3	866.7	702.4	551.5	416.5
12.5°	2764.4	2384.0	2037.3	1735.7	1474.5	1253.9	1060.3	880.2	713.6	558.3	423.2
10°	2818.5	2429.0	2073.3	1764.9	1497.0	1269.7	1071.6	891.5	720.4	565.0	427.7
7.5°	2861.2	2465.0	2102.6	1785.2	1512.8	1283.2	1082.8	898.2	727.1	569.5	434.5
5°	2892.8	2492.0	2122.9	1800.9	1526.3	1298.9	1096.3	909.5	736.1	576.3	434.5
2.5°	2917.5	2512.3	2138.6	1814.4	1535.3	1298.9	1096.3	909.5	736.1	576.3	434.5
0°	2917.5	2512.3	2138.6	1814.4	1535.3	1298.9	1096.3	909.5	736.1	576.3	434.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.3	9.0	4.5	0.0
85°	24.8	15.8	9.0	0.0
82.5°	36.0	24.8	11.3	0.0
80°	47.3	31.5	15.8	0.0
77.5°	60.8	40.5	20.3	0.0
75°	72.0	47.3	24.8	0.0
72.5°	83.3	56.3	27.0	0.0
70°	94.5	63.0	31.5	0.0
67.5°	108.1	69.8	36.0	0.0
65°	119.3	78.8	38.3	0.0
62.5°	130.6	85.5	42.8	0.0
60°	141.8	92.3	45.0	0.0
57.5°	153.1	99.1	49.5	0.0
55°	164.3	108.1	54.0	0.0
52.5°	175.6	114.8	56.3	0.0
50°	186.8	121.6	58.5	0.0
47.5°	195.9	128.3	63.0	0.0
45°	207.1	135.1	65.3	0.0
42.5°	218.4	139.6	67.5	0.0
40°	227.4	146.3	69.8	0.0
37.5°	238.6	150.8	74.3	0.0
35°	247.6	157.6	76.5	0.0
32.5°	254.4	162.1	78.8	0.0
30°	263.4	166.6	81.0	0.0
27.5°	270.1	171.1	81.0	0.0
25°	276.9	175.6	83.3	0.0
22.5°	283.6	177.8	85.5	0.0
20°	290.4	182.3	87.8	0.0
17.5°	294.9	184.6	87.8	0.0
15°	299.4	186.8	92.3	0.0
12.5°	301.7	189.1	92.3	0.0
10°	306.2	193.6	92.3	0.0
7.5°	310.7	193.6	92.3	0.0
5°	310.7	193.6	92.3	0.0
2.5°	310.7	193.6	92.3	0.0
0°	310.7	193.6	92.3	0.0

(END OF REPORT)