

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: P623961

Luminaire Tested: **IFLD-S-SA3A-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623961
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

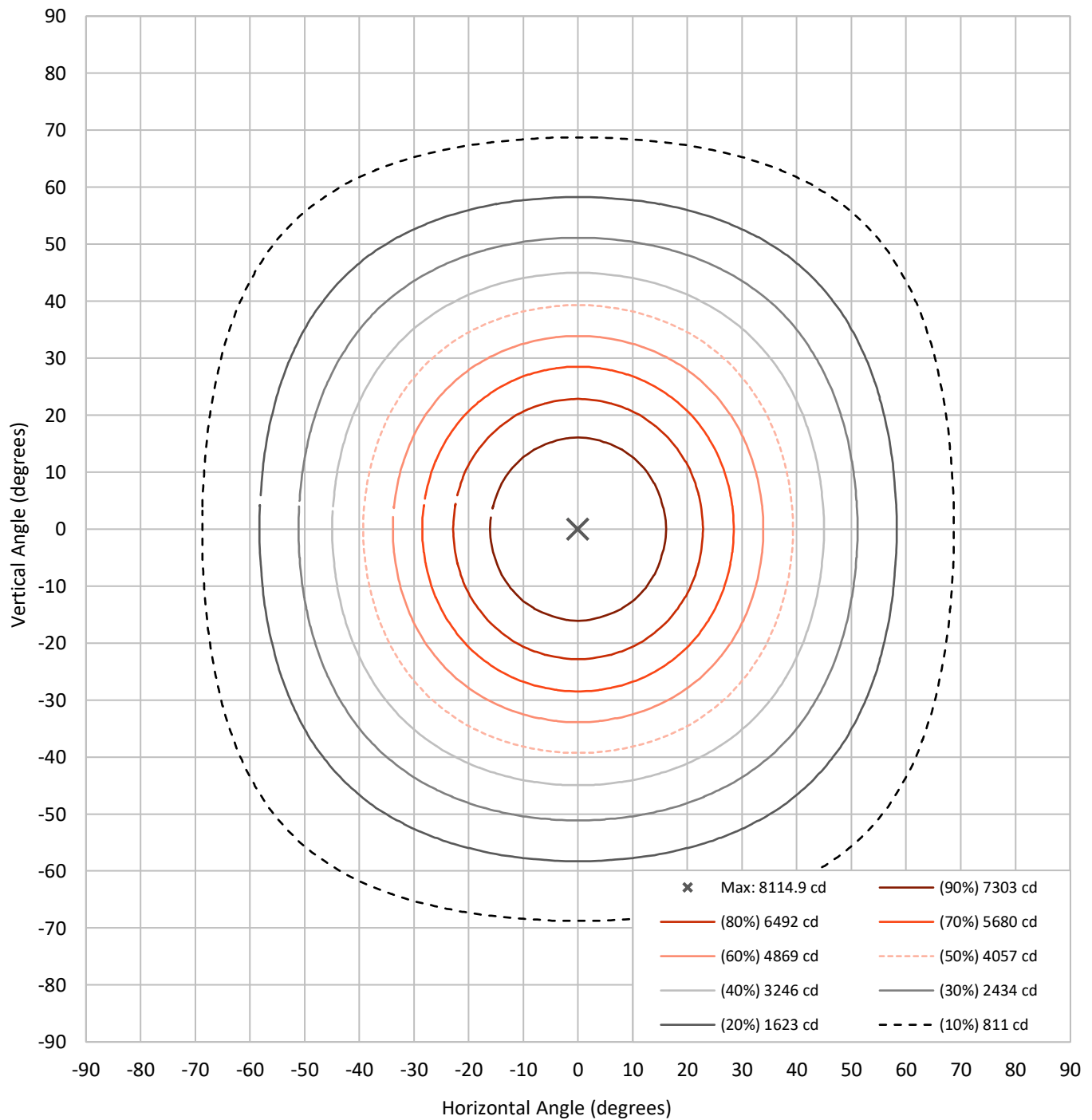
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14611.1 lumens	Max Intensity:	8114.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	6322.1 lumens	Field Lumens:	10352.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	94.8		
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		



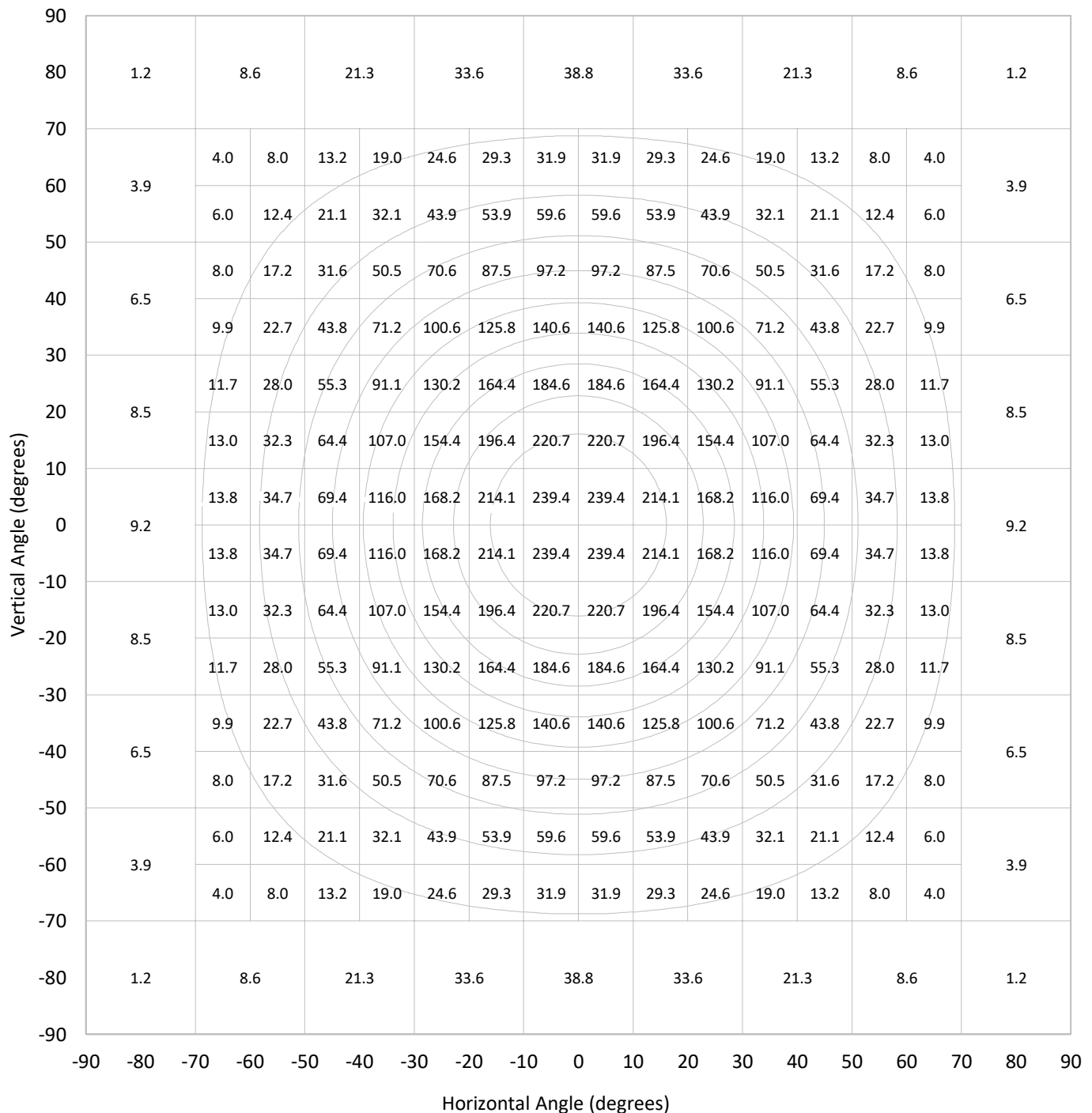
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Iso-Candela Plot



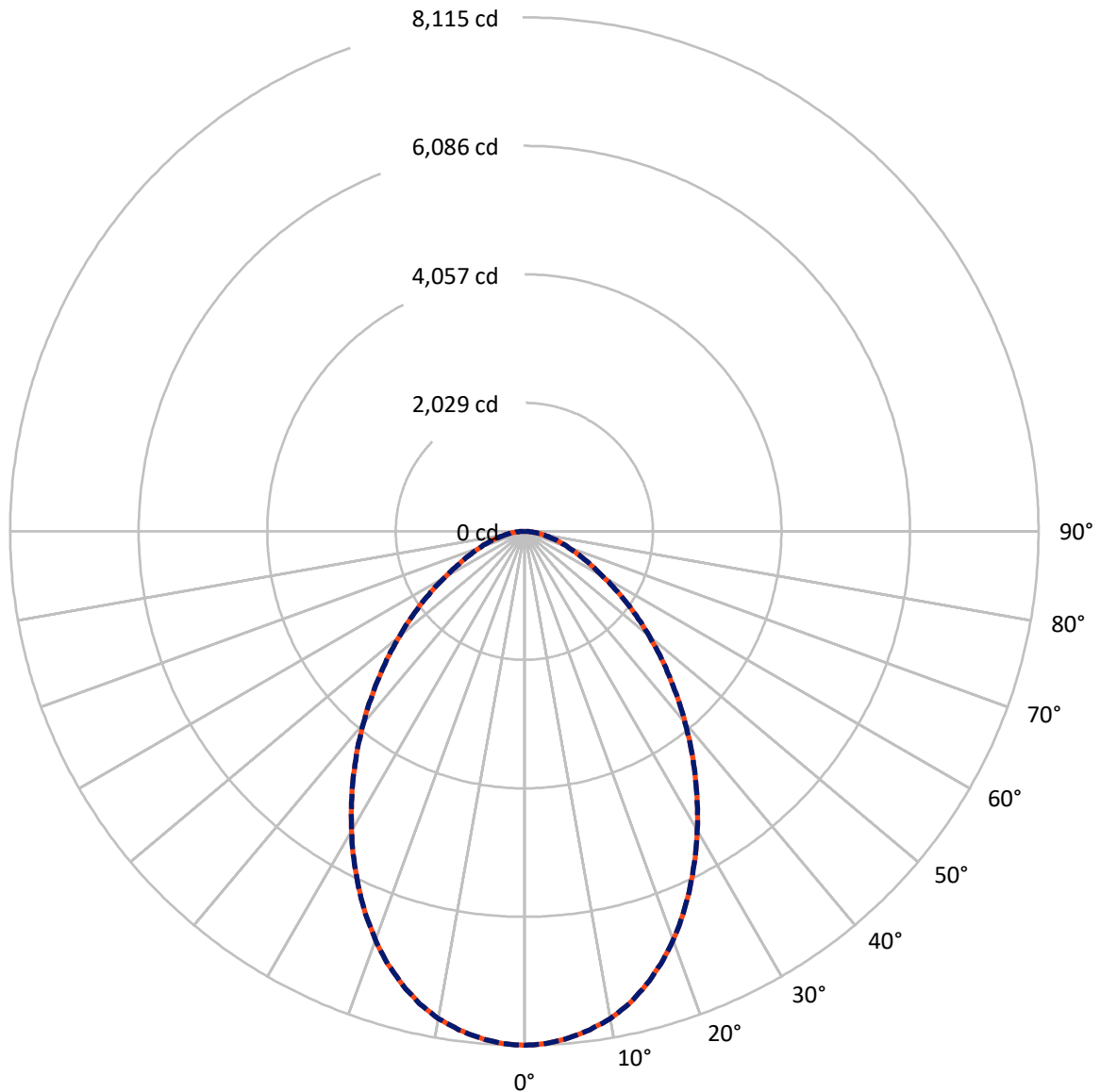
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Lumen Table



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Luminous Intensity Polar Plot

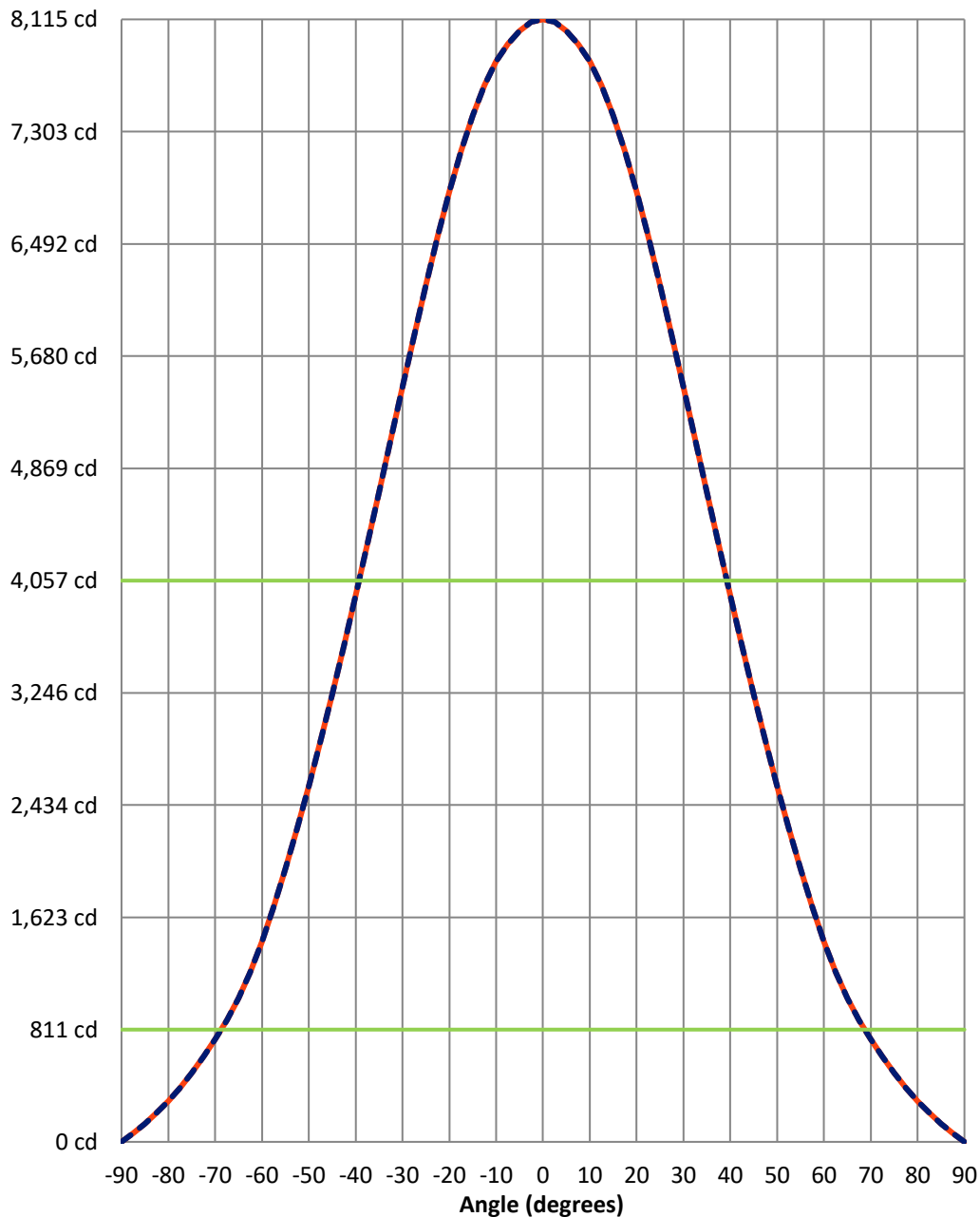


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6322.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10352.2
Efficiency: 70.9%

Spill:

Lumens: 4258.9
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°	62.5	62.5	62.5	62.5	62.5	62.5	62.5	59.4	59.4	57.9	56.4
85°	131.0	131.0	131.0	131.0	131.0	128.0	126.4	124.9	123.4	120.3	118.8
82.5°	210.2	210.2	210.2	210.2	207.2	204.1	202.6	199.6	196.5	191.9	187.4
80°	294.0	294.0	294.0	294.0	289.4	286.4	281.8	278.8	274.2	268.1	262.0
77.5°	390.0	390.0	390.0	385.4	382.4	377.8	373.2	367.1	361.0	353.4	344.3
75°	498.1	498.1	498.1	492.0	487.5	482.9	475.3	467.7	458.5	447.9	435.7
72.5°	615.4	615.4	615.4	607.8	603.2	595.6	586.5	575.8	565.2	551.5	536.2
70°	741.9	741.9	741.9	732.7	725.1	717.5	705.3	693.1	677.9	662.7	644.4
67.5°	879.0	879.0	879.0	868.3	859.2	848.5	834.8	819.6	801.3	780.0	758.6
65°	1038.9	1038.9	1032.8	1023.7	1013.0	997.8	981.0	959.7	936.9	909.4	880.5
62.5°	1227.8	1227.8	1218.7	1208.0	1194.3	1174.5	1151.7	1124.2	1092.2	1057.2	1022.2
60°	1447.2	1447.2	1436.5	1422.8	1403.0	1378.6	1348.2	1313.1	1273.5	1229.3	1186.7
57.5°	1700.1	1700.1	1686.4	1668.1	1643.7	1613.2	1575.1	1531.0	1480.7	1425.9	1372.5
55°	1974.3	1974.3	1957.5	1936.2	1907.2	1870.7	1825.0	1773.2	1712.2	1649.8	1581.2
52.5°	2265.2	2265.2	2245.4	2221.0	2187.5	2144.9	2093.1	2032.2	1962.1	1889.0	1808.2
50°	2571.4	2571.4	2548.6	2521.2	2483.1	2432.8	2373.4	2303.3	2225.6	2140.3	2047.4
47.5°	2898.9	2898.9	2873.0	2841.1	2795.4	2737.5	2667.4	2586.7	2498.3	2402.3	2297.2
45°	3235.6	3235.6	3206.7	3170.1	3119.8	3054.3	2976.6	2898.9	2786.2	2675.0	2553.1
42.5°	3586.0	3586.0	3552.5	3511.3	3453.4	3381.8	3293.5	3192.9	3081.7	2956.8	2824.3
40°	3950.1	3950.1	3912.0	3864.7	3800.8	3718.5	3619.5	3506.8	3381.8	3243.2	3097.0
37.5°	4321.8	4321.8	4279.1	4227.3	4155.7	4064.3	3953.1	3828.2	3688.0	3534.2	3372.7
35°	4696.5	4696.5	4649.3	4592.9	4513.7	4413.2	4292.8	4154.2	3998.8	3831.2	3650.0
32.5°	5078.9	5078.9	5027.1	4963.1	4873.2	4762.0	4629.5	4478.7	4321.8	4126.8	3928.7
30°	5456.7	5456.7	5400.3	5330.2	5234.2	5112.4	4967.7	4801.6	4617.3	4417.7	4204.5
27.5°	5828.4	5813.1	5765.9	5691.2	5586.1	5456.7	5299.7	5120.0	4920.4	4701.1	4472.6
25°	6194.0	6177.2	6125.4	6043.1	5930.4	5788.7	5619.7	5427.7	5212.9	4981.4	4731.5
22.5°	6544.3	6526.0	6471.2	6382.9	6262.5	6108.6	5927.4	5721.7	5493.2	5244.9	4981.4
20°	6868.8	6849.0	6792.6	6699.7	6574.8	6411.8	6219.9	5999.0	5755.2	5493.2	5212.9
17.5°	7161.3	7141.5	7082.1	6986.1	6868.8	6687.5	6489.5	6256.4	5999.0	5721.7	5427.7
15°	7418.7	7397.4	7336.5	7240.5	7106.4	6935.8	6727.1	6489.5	6219.9	5927.4	5619.7
12.5°	7638.1	7616.8	7554.3	7458.3	7319.7	7149.1	6935.8	6687.5	6411.8	6108.6	5788.7
10°	7811.8	7790.4	7731.0	7639.6	7496.4	7319.7	7106.4	6868.8	6574.8	6262.5	5930.4
7.5°	7936.7	7916.9	7862.0	7770.6	7639.6	7458.3	7240.5	6986.1	6699.7	6382.9	6043.1
5°	8031.1	8008.3	7953.4	7862.0	7731.0	7554.3	7336.5	7082.1	6792.6	6471.2	6125.4
2.5°	8096.6	8069.2	8008.3	7916.9	7790.4	7616.8	7397.4	7141.5	6849.0	6526.0	6177.2
0°	8114.9	8096.6	8031.1	7936.7	7811.8	7638.1	7418.7	7161.3	6868.8	6544.3	6194.0

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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°	54.8	54.8	53.3	51.8	50.3	47.2	45.7	44.2	42.7	39.6	38.1
85°	115.8	112.7	109.7	106.6	102.1	99.0	94.4	91.4	86.8	82.3	77.7
82.5°	182.8	178.2	172.1	167.6	161.5	153.9	147.8	140.1	132.5	126.4	118.8
80°	255.9	248.3	240.7	233.1	223.9	214.8	205.7	196.5	185.8	175.2	164.5
77.5°	335.1	324.5	313.8	301.6	291.0	278.8	266.6	254.4	240.7	227.0	213.3
75°	423.5	409.8	394.5	379.3	365.6	348.8	332.1	315.3	297.1	280.3	262.0
72.5°	519.5	502.7	484.4	466.1	446.3	425.0	403.7	380.8	359.5	338.2	315.3
70°	623.1	603.2	580.4	557.5	533.2	507.3	481.4	454.0	426.5	399.1	371.7
67.5°	734.3	709.9	682.5	655.0	624.6	594.1	563.6	531.7	498.1	464.6	432.6
65°	853.1	822.6	790.6	755.6	720.5	685.5	648.9	610.9	572.8	533.2	498.1
62.5°	985.6	947.5	906.4	863.7	824.1	781.5	741.9	694.6	648.9	604.8	560.6
60°	1139.5	1089.2	1038.9	985.6	935.3	880.5	831.8	780.0	728.2	677.9	626.1
57.5°	1311.6	1247.6	1186.7	1122.7	1055.7	994.7	932.3	869.8	811.9	752.5	696.2
55°	1506.6	1428.9	1352.7	1273.5	1195.8	1119.7	1040.5	970.4	898.8	831.8	766.2
52.5°	1719.9	1631.5	1537.1	1447.2	1348.2	1253.7	1165.4	1077.0	993.2	912.5	837.8
50°	1948.4	1844.8	1736.6	1626.9	1514.2	1403.0	1296.4	1192.8	1095.3	1000.8	912.5
47.5°	2186.0	2068.7	1945.3	1820.4	1700.1	1564.5	1436.5	1319.2	1201.9	1095.3	993.2
45°	2429.7	2297.2	2161.6	2020.0	1878.3	1732.1	1590.4	1447.2	1319.2	1192.8	1077.0
42.5°	2681.1	2531.8	2381.0	2224.1	2067.2	1907.2	1747.3	1590.4	1436.5	1296.4	1165.4
40°	2940.1	2775.6	2603.4	2432.8	2265.2	2082.4	1907.2	1732.1	1564.5	1403.0	1253.7
37.5°	3199.0	3019.3	2833.4	2641.5	2449.6	2265.2	2067.2	1878.3	1700.1	1514.2	1348.2
35°	3459.5	3261.5	3060.4	2851.7	2641.5	2432.8	2224.1	2020.0	1820.4	1626.9	1447.2
32.5°	3721.6	3505.2	3282.8	3060.4	2833.4	2603.4	2381.0	2161.6	1945.3	1736.6	1537.1
30°	3979.0	3744.4	3505.2	3261.5	3019.3	2775.6	2531.8	2297.2	2068.7	1844.8	1631.5
27.5°	4230.4	3979.0	3721.6	3459.5	3199.0	2940.1	2681.1	2429.7	2186.0	1948.4	1719.9
25°	4472.6	4204.5	3928.7	3650.0	3372.7	3097.0	2824.3	2553.1	2297.2	2047.4	1808.2
22.5°	4701.1	4417.7	4126.8	3831.2	3534.2	3243.2	2956.8	2675.0	2402.3	2140.3	1889.0
20°	4920.4	4617.3	4321.8	3998.8	3688.0	3381.8	3081.7	2786.2	2498.3	2225.6	1962.1
17.5°	5120.0	4801.6	4478.7	4154.2	3828.2	3506.8	3192.9	2898.9	2586.7	2303.3	2032.2
15°	5299.7	4967.7	4629.5	4292.8	3953.1	3619.5	3293.5	2976.6	2667.4	2373.4	2093.1
12.5°	5456.7	5112.4	4762.0	4413.2	4064.3	3718.5	3381.8	3054.3	2737.5	2432.8	2144.9
10°	5586.1	5234.2	4873.2	4513.7	4155.7	3800.8	3453.4	3119.8	2795.4	2483.1	2187.5
7.5°	5691.2	5330.2	4963.1	4592.9	4227.3	3864.7	3511.3	3170.1	2841.1	2521.2	2221.0
5°	5765.9	5400.3	5027.1	4649.3	4279.1	3912.0	3552.5	3206.7	2873.0	2548.6	2245.4
2.5°	5813.1	5456.7	5078.9	4696.5	4321.8	3950.1	3586.0	3235.6	2898.9	2571.4	2265.2
0°	5828.4	5456.7	5078.9	4696.5	4321.8	3950.1	3586.0	3235.6	2898.9	2571.4	2265.2

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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°	36.6	33.5	30.5	28.9	25.9	24.4	21.3	18.3	16.8	13.7	10.7
85°	73.1	67.0	62.5	57.9	53.3	47.2	42.7	38.1	32.0	27.4	21.3
82.5°	111.2	103.6	96.0	88.4	80.7	73.1	64.0	56.4	48.7	41.1	32.0
80°	153.9	141.7	131.0	120.3	109.7	99.0	86.8	76.2	64.0	53.3	42.7
77.5°	198.0	184.3	169.1	153.9	138.6	124.9	109.7	96.0	82.3	67.0	53.3
75°	245.3	227.0	210.2	190.4	172.1	152.3	134.1	115.8	99.0	82.3	64.0
72.5°	294.0	271.2	248.3	227.0	204.1	181.3	160.0	137.1	115.8	96.0	76.2
70°	344.3	316.9	289.4	263.5	237.6	210.2	185.8	160.0	134.1	109.7	86.8
67.5°	397.6	365.6	333.6	300.1	271.2	240.7	210.2	181.3	152.3	124.9	99.0
65°	455.5	417.4	377.8	342.8	304.7	271.2	237.6	204.1	172.1	138.6	109.7
62.5°	514.9	470.7	426.5	382.4	342.8	300.1	263.5	227.0	190.4	153.9	120.3
60°	575.8	525.6	475.3	426.5	377.8	333.6	289.4	248.3	210.2	169.1	131.0
57.5°	638.3	581.9	525.6	470.7	417.4	365.6	316.9	271.2	227.0	184.3	141.7
55°	702.3	638.3	575.8	514.9	455.5	397.6	344.3	294.0	245.3	198.0	153.9
52.5°	766.2	696.2	626.1	560.6	498.1	432.6	371.7	315.3	262.0	213.3	164.5
50°	831.8	752.5	677.9	604.8	533.2	464.6	399.1	338.2	280.3	227.0	175.2
47.5°	898.8	811.9	728.2	648.9	572.8	498.1	426.5	359.5	297.1	240.7	185.8
45°	970.4	869.8	780.0	694.6	610.9	531.7	454.0	380.8	315.3	254.4	196.5
42.5°	1040.5	932.3	831.8	741.9	648.9	563.6	481.4	403.7	332.1	266.6	205.7
40°	1119.7	994.7	880.5	781.5	685.5	594.1	507.3	425.0	348.8	278.8	214.8
37.5°	1195.8	1055.7	935.3	824.1	720.5	624.6	533.2	446.3	365.6	291.0	223.9
35°	1273.5	1122.7	985.6	863.7	755.6	655.0	557.5	466.1	379.3	301.6	233.1
32.5°	1352.7	1186.7	1038.9	906.4	790.6	682.5	580.4	484.4	394.5	313.8	240.7
30°	1428.9	1247.6	1089.2	947.5	822.6	709.9	603.2	502.7	409.8	324.5	248.3
27.5°	1506.6	1311.6	1139.5	985.6	853.1	734.3	623.1	519.5	423.5	335.1	255.9
25°	1581.2	1372.5	1186.7	1022.2	880.5	758.6	644.4	536.2	435.7	344.3	262.0
22.5°	1649.8	1425.9	1229.3	1057.2	909.4	780.0	662.7	551.5	447.9	353.4	268.1
20°	1712.2	1480.7	1273.5	1092.2	936.9	801.3	677.9	565.2	458.5	361.0	274.2
17.5°	1773.2	1531.0	1313.1	1124.2	959.7	819.6	693.1	575.8	467.7	367.1	278.8
15°	1825.0	1575.1	1348.2	1151.7	981.0	834.8	705.3	586.5	475.3	373.2	281.8
12.5°	1870.7	1613.2	1378.6	1174.5	997.8	848.5	717.5	595.6	482.9	377.8	286.4
10°	1907.2	1643.7	1403.0	1194.3	1013.0	859.2	725.1	603.2	487.5	382.4	289.4
7.5°	1936.2	1668.1	1422.8	1208.0	1023.7	868.3	732.7	607.8	492.0	385.4	294.0
5°	1957.5	1686.4	1436.5	1218.7	1032.8	879.0	741.9	615.4	498.1	390.0	294.0
2.5°	1974.3	1700.1	1447.2	1227.8	1038.9	879.0	741.9	615.4	498.1	390.0	294.0
0°	1974.3	1700.1	1447.2	1227.8	1038.9	879.0	741.9	615.4	498.1	390.0	294.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.6	6.1	3.0	0.0
85°	16.8	10.7	6.1	0.0
82.5°	24.4	16.8	7.6	0.0
80°	32.0	21.3	10.7	0.0
77.5°	41.1	27.4	13.7	0.0
75°	48.7	32.0	16.8	0.0
72.5°	56.4	38.1	18.3	0.0
70°	64.0	42.7	21.3	0.0
67.5°	73.1	47.2	24.4	0.0
65°	80.7	53.3	25.9	0.0
62.5°	88.4	57.9	28.9	0.0
60°	96.0	62.5	30.5	0.0
57.5°	103.6	67.0	33.5	0.0
55°	111.2	73.1	36.6	0.0
52.5°	118.8	77.7	38.1	0.0
50°	126.4	82.3	39.6	0.0
47.5°	132.5	86.8	42.7	0.0
45°	140.1	91.4	44.2	0.0
42.5°	147.8	94.4	45.7	0.0
40°	153.9	99.0	47.2	0.0
37.5°	161.5	102.1	50.3	0.0
35°	167.6	106.6	51.8	0.0
32.5°	172.1	109.7	53.3	0.0
30°	178.2	112.7	54.8	0.0
27.5°	182.8	115.8	54.8	0.0
25°	187.4	118.8	56.4	0.0
22.5°	191.9	120.3	57.9	0.0
20°	196.5	123.4	59.4	0.0
17.5°	199.6	124.9	59.4	0.0
15°	202.6	126.4	62.5	0.0
12.5°	204.1	128.0	62.5	0.0
10°	207.2	131.0	62.5	0.0
7.5°	210.2	131.0	62.5	0.0
5°	210.2	131.0	62.5	0.0
2.5°	210.2	131.0	62.5	0.0
0°	210.2	131.0	62.5	0.0

(END OF REPORT)