

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: P624539

Luminaire Tested: **IFLD-M-SA4A-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624539
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

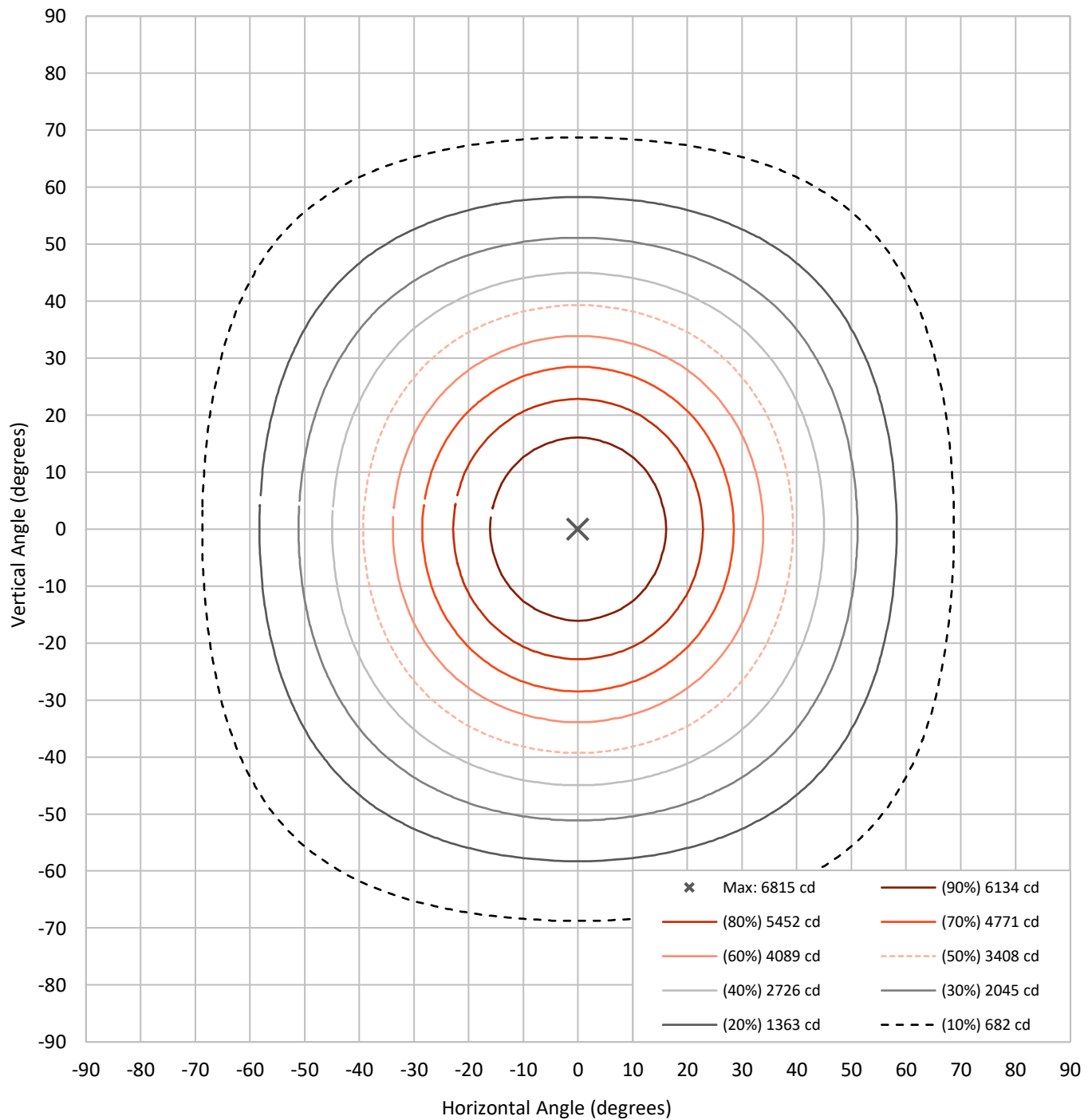
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12270.5 lumens	Max Intensity:	6815 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.4 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:	5309.3 lumens	Field Lumens:	8693.8 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		



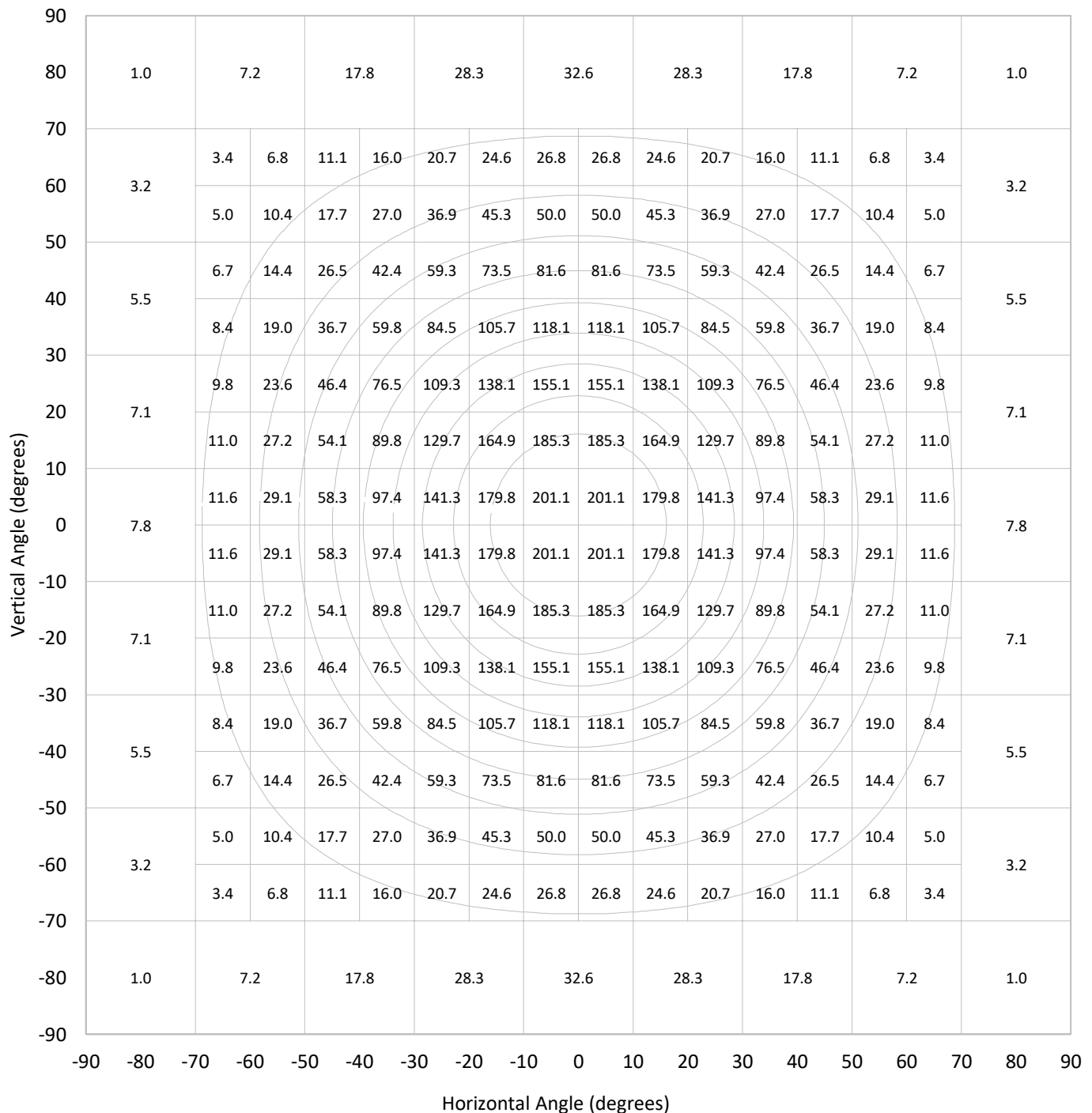
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Iso-Candela Plot



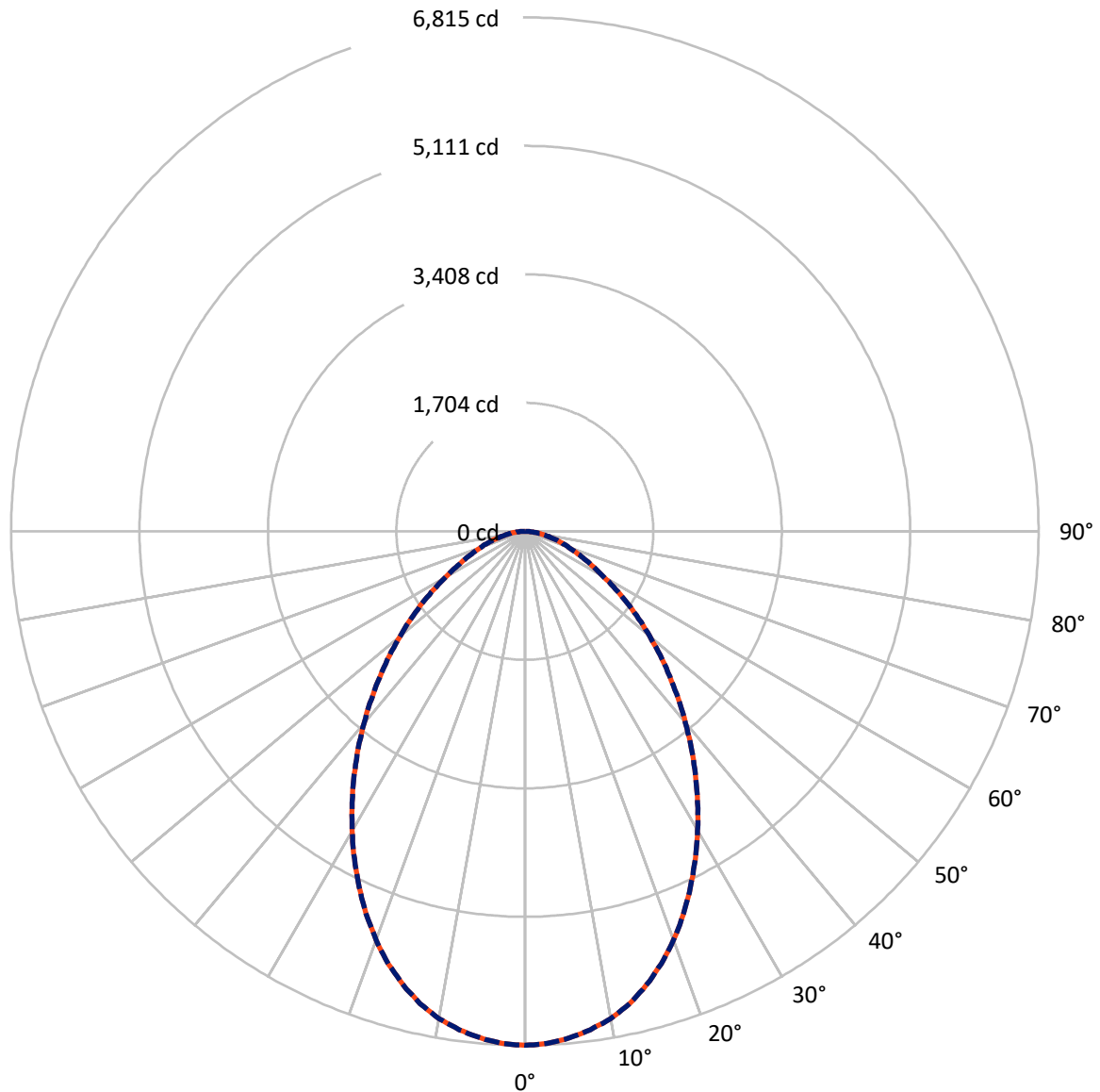
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Lumen Table



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Luminous Intensity Polar Plot

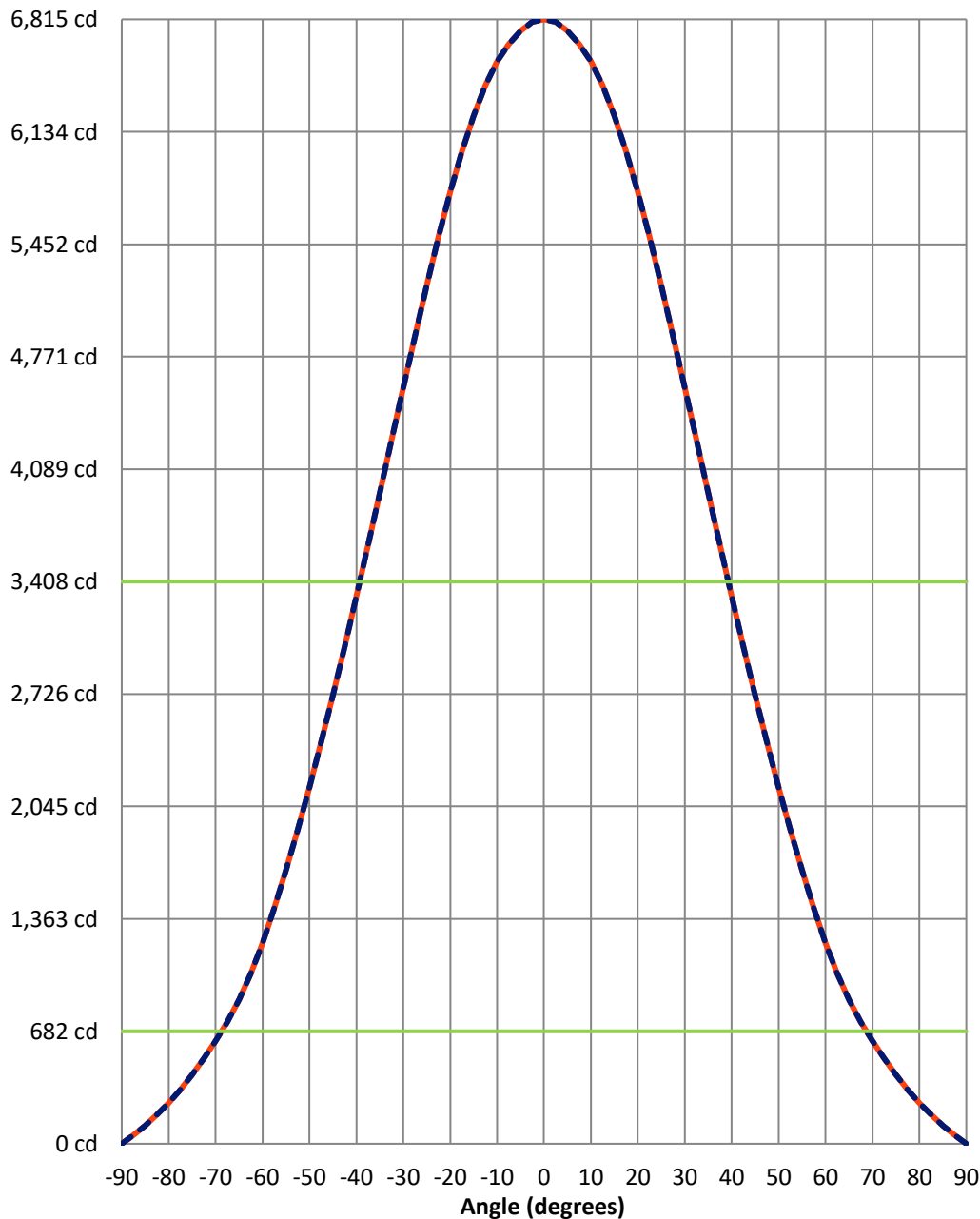


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg

Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	5309.3
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	8693.8
Efficiency:	70.9%

Spill:

Lumens:	3576.7
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°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	49.9	49.9	48.6	47.3
85°	110.0	110.0	110.0	110.0	110.0	107.5	106.2	104.9	103.6	101.1	99.8
82.5°	176.5	176.5	176.5	176.5	174.0	171.4	170.2	167.6	165.0	161.2	157.4
80°	246.9	246.9	246.9	246.9	243.1	240.5	236.7	234.1	230.3	225.2	220.0
77.5°	327.5	327.5	327.5	323.7	321.1	317.3	313.4	308.3	303.2	296.8	289.1
75°	418.3	418.3	418.3	413.2	409.4	405.5	399.1	392.8	385.1	376.1	365.9
72.5°	516.8	516.8	516.8	510.5	506.6	500.2	492.5	483.6	474.6	463.1	450.3
70°	623.0	623.0	623.0	615.4	609.0	602.6	592.3	582.1	569.3	556.5	541.2
67.5°	738.2	738.2	738.2	729.2	721.5	712.6	701.1	688.3	672.9	655.0	637.1
65°	872.5	872.5	867.4	859.7	850.8	838.0	823.9	806.0	786.8	763.8	739.4
62.5°	1031.1	1031.1	1023.5	1014.5	1003.0	986.4	967.2	944.1	917.3	887.9	858.4
60°	1215.4	1215.4	1206.4	1194.9	1178.3	1157.8	1132.2	1102.8	1069.5	1032.4	996.6
57.5°	1427.7	1427.7	1416.2	1400.9	1380.4	1354.8	1322.8	1285.7	1243.5	1197.4	1152.7
55°	1658.0	1658.0	1643.9	1626.0	1601.7	1571.0	1532.6	1489.1	1438.0	1385.5	1327.9
52.5°	1902.4	1902.4	1885.7	1865.3	1837.1	1801.3	1757.8	1706.6	1647.8	1586.4	1518.6
50°	2159.5	2159.5	2140.3	2117.3	2085.3	2043.1	1993.2	1934.3	1869.1	1797.5	1719.4
47.5°	2434.6	2434.6	2412.8	2385.9	2347.6	2298.9	2240.1	2172.3	2098.1	2017.5	1929.2
45°	2717.3	2717.3	2693.0	2662.3	2620.1	2565.0	2499.8	2434.6	2339.9	2246.5	2144.1
42.5°	3011.5	3011.5	2983.4	2948.8	2900.2	2840.1	2765.9	2681.5	2588.1	2483.2	2371.9
40°	3317.3	3317.3	3285.3	3245.6	3191.9	3122.8	3039.7	2945.0	2840.1	2723.7	2600.9
37.5°	3629.4	3629.4	3593.6	3550.1	3490.0	3413.2	3319.8	3214.9	3097.2	2968.0	2832.4
35°	3944.2	3944.2	3904.5	3857.2	3790.6	3706.2	3605.1	3488.7	3358.2	3217.5	3065.3
32.5°	4265.3	4265.3	4221.8	4168.0	4092.6	3999.2	3887.9	3761.2	3629.4	3465.7	3299.4
30°	4582.5	4582.5	4535.2	4476.4	4395.8	4293.4	4171.9	4032.4	3877.6	3710.0	3530.9
27.5°	4894.7	4881.9	4842.2	4779.6	4691.3	4582.5	4450.8	4299.8	4132.2	3948.0	3756.1
25°	5201.7	5187.7	5144.2	5075.1	4980.4	4861.4	4719.4	4558.2	4377.8	4183.4	3973.6
22.5°	5496.0	5480.6	5434.6	5360.4	5259.3	5130.1	4977.9	4805.1	4613.2	4404.7	4183.4
20°	5768.5	5751.8	5704.5	5626.5	5521.6	5384.7	5223.5	5038.0	4833.3	4613.2	4377.8
17.5°	6014.1	5997.5	5947.6	5867.0	5768.5	5616.2	5449.9	5254.2	5038.0	4805.1	4558.2
15°	6230.3	6212.4	6161.2	6080.6	5968.0	5824.8	5649.5	5449.9	5223.5	4977.9	4719.4
12.5°	6414.5	6396.6	6344.2	6263.6	6147.2	6003.9	5824.8	5616.2	5384.7	5130.1	4861.4
10°	6560.4	6542.5	6492.6	6415.8	6295.6	6147.2	5968.0	5768.5	5521.6	5259.3	4980.4
7.5°	6665.3	6648.6	6602.6	6525.8	6415.8	6263.6	6080.6	5867.0	5626.5	5360.4	5075.1
5°	6744.6	6725.4	6679.4	6602.6	6492.6	6344.2	6161.2	5947.6	5704.5	5434.6	5144.2
2.5°	6799.6	6776.6	6725.4	6648.6	6542.5	6396.6	6212.4	5997.5	5751.8	5480.6	5187.7
0°	6815.0	6799.6	6744.6	6665.3	6560.4	6414.5	6230.3	6014.1	5768.5	5496.0	5201.7

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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°	46.1	46.1	44.8	43.5	42.2	39.7	38.4	37.1	35.8	33.3	32.0
85°	97.2	94.7	92.1	89.6	85.7	83.2	79.3	76.8	72.9	69.1	65.2
82.5°	153.5	149.7	144.6	140.7	135.6	129.2	124.1	117.7	111.3	106.2	99.8
80°	214.9	208.5	202.1	195.7	188.1	180.4	172.7	165.0	156.1	147.1	138.2
77.5°	281.5	272.5	263.5	253.3	244.4	234.1	223.9	213.6	202.1	190.6	179.1
75°	355.7	344.1	331.3	318.6	307.0	293.0	278.9	264.8	249.5	235.4	220.0
72.5°	436.2	422.2	406.8	391.5	374.8	356.9	339.0	319.8	301.9	284.0	264.8
70°	523.2	506.6	487.4	468.2	447.8	426.0	404.3	381.2	358.2	335.2	312.2
67.5°	616.6	596.2	573.1	550.1	524.5	498.9	473.3	446.5	418.3	390.2	363.3
65°	716.4	690.8	664.0	634.5	605.1	575.7	545.0	513.0	481.0	447.8	418.3
62.5°	827.7	795.7	761.2	725.4	692.1	656.3	623.0	583.4	545.0	507.9	470.8
60°	956.9	914.7	872.5	827.7	785.5	739.4	698.5	655.0	611.5	569.3	525.8
57.5°	1101.5	1047.8	996.6	942.9	886.6	835.4	782.9	730.5	681.9	632.0	584.7
55°	1265.3	1200.0	1136.0	1069.5	1004.3	940.3	873.8	814.9	754.8	698.5	643.5
52.5°	1444.4	1370.2	1290.8	1215.4	1132.2	1052.9	978.7	904.5	834.1	766.3	703.6
50°	1636.3	1549.3	1458.4	1366.3	1271.6	1178.3	1088.7	1001.7	919.8	840.5	766.3
47.5°	1835.8	1737.3	1633.7	1528.8	1427.7	1313.9	1206.4	1107.9	1009.4	919.8	834.1
45°	2040.5	1929.2	1815.4	1696.4	1577.4	1454.6	1335.6	1215.4	1107.9	1001.7	904.5
42.5°	2251.6	2126.2	1999.6	1867.8	1736.0	1601.7	1467.4	1335.6	1206.4	1088.7	978.7
40°	2469.1	2330.9	2186.4	2043.1	1902.4	1748.8	1601.7	1454.6	1313.9	1178.3	1052.9
37.5°	2686.6	2535.6	2379.5	2218.3	2057.2	1902.4	1736.0	1577.4	1427.7	1271.6	1132.2
35°	2905.3	2739.0	2570.2	2394.9	2218.3	2043.1	1867.8	1696.4	1528.8	1366.3	1215.4
32.5°	3125.4	2943.7	2756.9	2570.2	2379.5	2186.4	1999.6	1815.4	1633.7	1458.4	1290.8
30°	3341.6	3144.6	2943.7	2739.0	2535.6	2330.9	2126.2	1929.2	1737.3	1549.3	1370.2
27.5°	3552.7	3341.6	3125.4	2905.3	2686.6	2469.1	2251.6	2040.5	1835.8	1636.3	1444.4
25°	3756.1	3530.9	3299.4	3065.3	2832.4	2600.9	2371.9	2144.1	1929.2	1719.4	1518.6
22.5°	3948.0	3710.0	3465.7	3217.5	2968.0	2723.7	2483.2	2246.5	2017.5	1797.5	1586.4
20°	4132.2	3877.6	3629.4	3358.2	3097.2	2840.1	2588.1	2339.9	2098.1	1869.1	1647.8
17.5°	4299.8	4032.4	3761.2	3488.7	3214.9	2945.0	2681.5	2434.6	2172.3	1934.3	1706.6
15°	4450.8	4171.9	3887.9	3605.1	3319.8	3039.7	2765.9	2499.8	2240.1	1993.2	1757.8
12.5°	4582.5	4293.4	3999.2	3706.2	3413.2	3122.8	2840.1	2565.0	2298.9	2043.1	1801.3
10°	4691.3	4395.8	4092.6	3790.6	3490.0	3191.9	2900.2	2620.1	2347.6	2085.3	1837.1
7.5°	4779.6	4476.4	4168.0	3857.2	3550.1	3245.6	2948.8	2662.3	2385.9	2117.3	1865.3
5°	4842.2	4535.2	4221.8	3904.5	3593.6	3285.3	2983.4	2693.0	2412.8	2140.3	1885.7
2.5°	4881.9	4582.5	4265.3	3944.2	3629.4	3317.3	3011.5	2717.3	2434.6	2159.5	1902.4
0°	4894.7	4582.5	4265.3	3944.2	3629.4	3317.3	3011.5	2717.3	2434.6	2159.5	1902.4

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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°	30.7	28.1	25.6	24.3	21.7	20.5	17.9	15.4	14.1	11.5	9.0
85°	61.4	56.3	52.5	48.6	44.8	39.7	35.8	32.0	26.9	23.0	17.9
82.5°	93.4	87.0	80.6	74.2	67.8	61.4	53.7	47.3	40.9	34.5	26.9
80°	129.2	119.0	110.0	101.1	92.1	83.2	72.9	64.0	53.7	44.8	35.8
77.5°	166.3	154.8	142.0	129.2	116.4	104.9	92.1	80.6	69.1	56.3	44.8
75°	206.0	190.6	176.5	159.9	144.6	127.9	112.6	97.2	83.2	69.1	53.7
72.5°	246.9	227.7	208.5	190.6	171.4	152.2	134.3	115.1	97.2	80.6	64.0
70°	289.1	266.1	243.1	221.3	199.6	176.5	156.1	134.3	112.6	92.1	72.9
67.5°	333.9	307.0	280.2	252.0	227.7	202.1	176.5	152.2	127.9	104.9	83.2
65°	382.5	350.5	317.3	287.8	255.9	227.7	199.6	171.4	144.6	116.4	92.1
62.5°	432.4	395.3	358.2	321.1	287.8	252.0	221.3	190.6	159.9	129.2	101.1
60°	483.6	441.4	399.1	358.2	317.3	280.2	243.1	208.5	176.5	142.0	110.0
57.5°	536.0	488.7	441.4	395.3	350.5	307.0	266.1	227.7	190.6	154.8	119.0
55°	589.8	536.0	483.6	432.4	382.5	333.9	289.1	246.9	206.0	166.3	129.2
52.5°	643.5	584.7	525.8	470.8	418.3	363.3	312.2	264.8	220.0	179.1	138.2
50°	698.5	632.0	569.3	507.9	447.8	390.2	335.2	284.0	235.4	190.6	147.1
47.5°	754.8	681.9	611.5	545.0	481.0	418.3	358.2	301.9	249.5	202.1	156.1
45°	814.9	730.5	655.0	583.4	513.0	446.5	381.2	319.8	264.8	213.6	165.0
42.5°	873.8	782.9	698.5	623.0	545.0	473.3	404.3	339.0	278.9	223.9	172.7
40°	940.3	835.4	739.4	656.3	575.7	498.9	426.0	356.9	293.0	234.1	180.4
37.5°	1004.3	886.6	785.5	692.1	605.1	524.5	447.8	374.8	307.0	244.4	188.1
35°	1069.5	942.9	827.7	725.4	634.5	550.1	468.2	391.5	318.6	253.3	195.7
32.5°	1136.0	996.6	872.5	761.2	664.0	573.1	487.4	406.8	331.3	263.5	202.1
30°	1200.0	1047.8	914.7	795.7	690.8	596.2	506.6	422.2	344.1	272.5	208.5
27.5°	1265.3	1101.5	956.9	827.7	716.4	616.6	523.2	436.2	355.7	281.5	214.9
25°	1327.9	1152.7	996.6	858.4	739.4	637.1	541.2	450.3	365.9	289.1	220.0
22.5°	1385.5	1197.4	1032.4	887.9	763.8	655.0	556.5	463.1	376.1	296.8	225.2
20°	1438.0	1243.5	1069.5	917.3	786.8	672.9	569.3	474.6	385.1	303.2	230.3
17.5°	1489.1	1285.7	1102.8	944.1	806.0	688.3	582.1	483.6	392.8	308.3	234.1
15°	1532.6	1322.8	1132.2	967.2	823.9	701.1	592.3	492.5	399.1	313.4	236.7
12.5°	1571.0	1354.8	1157.8	986.4	838.0	712.6	602.6	500.2	405.5	317.3	240.5
10°	1601.7	1380.4	1178.3	1003.0	850.8	721.5	609.0	506.6	409.4	321.1	243.1
7.5°	1626.0	1400.9	1194.9	1014.5	859.7	729.2	615.4	510.5	413.2	323.7	246.9
5°	1643.9	1416.2	1206.4	1023.5	867.4	738.2	623.0	516.8	418.3	327.5	246.9
2.5°	1658.0	1427.7	1215.4	1031.1	872.5	738.2	623.0	516.8	418.3	327.5	246.9
0°	1658.0	1427.7	1215.4	1031.1	872.5	738.2	623.0	516.8	418.3	327.5	246.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.4	5.1	2.6	0.0
85°	14.1	9.0	5.1	0.0
82.5°	20.5	14.1	6.4	0.0
80°	26.9	17.9	9.0	0.0
77.5°	34.5	23.0	11.5	0.0
75°	40.9	26.9	14.1	0.0
72.5°	47.3	32.0	15.4	0.0
70°	53.7	35.8	17.9	0.0
67.5°	61.4	39.7	20.5	0.0
65°	67.8	44.8	21.7	0.0
62.5°	74.2	48.6	24.3	0.0
60°	80.6	52.5	25.6	0.0
57.5°	87.0	56.3	28.1	0.0
55°	93.4	61.4	30.7	0.0
52.5°	99.8	65.2	32.0	0.0
50°	106.2	69.1	33.3	0.0
47.5°	111.3	72.9	35.8	0.0
45°	117.7	76.8	37.1	0.0
42.5°	124.1	79.3	38.4	0.0
40°	129.2	83.2	39.7	0.0
37.5°	135.6	85.7	42.2	0.0
35°	140.7	89.6	43.5	0.0
32.5°	144.6	92.1	44.8	0.0
30°	149.7	94.7	46.1	0.0
27.5°	153.5	97.2	46.1	0.0
25°	157.4	99.8	47.3	0.0
22.5°	161.2	101.1	48.6	0.0
20°	165.0	103.6	49.9	0.0
17.5°	167.6	104.9	49.9	0.0
15°	170.2	106.2	52.5	0.0
12.5°	171.4	107.5	52.5	0.0
10°	174.0	110.0	52.5	0.0
7.5°	176.5	110.0	52.5	0.0
5°	176.5	110.0	52.5	0.0
2.5°	176.5	110.0	52.5	0.0
0°	176.5	110.0	52.5	0.0

(END OF REPORT)