

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: P624068

Luminaire Tested: **IFLD-L-SA8A-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624068
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

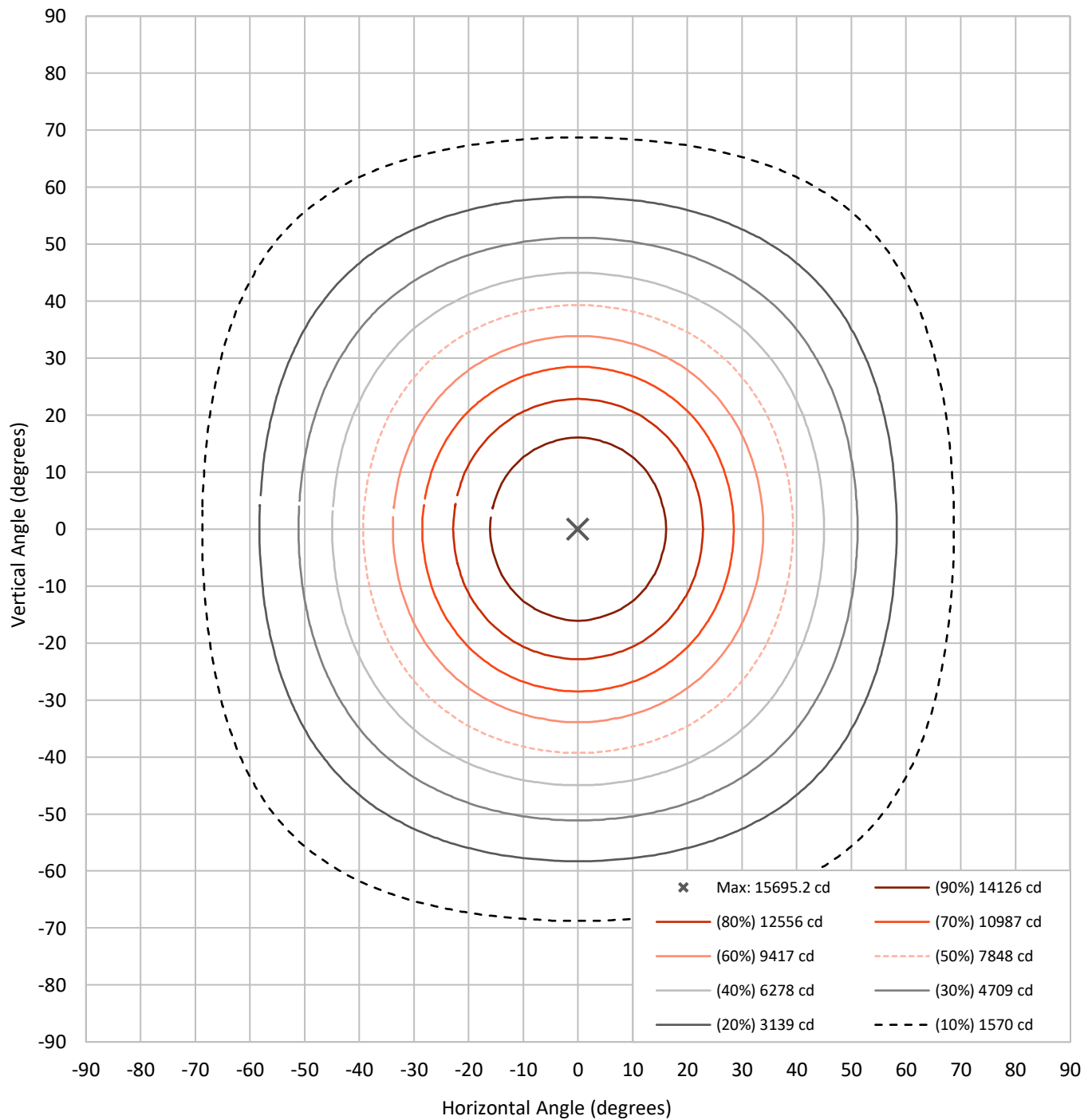
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28259.5 lumens	Max Intensity:	15695.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' 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:	12227.6 lumens	Field Lumens:	20022.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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		



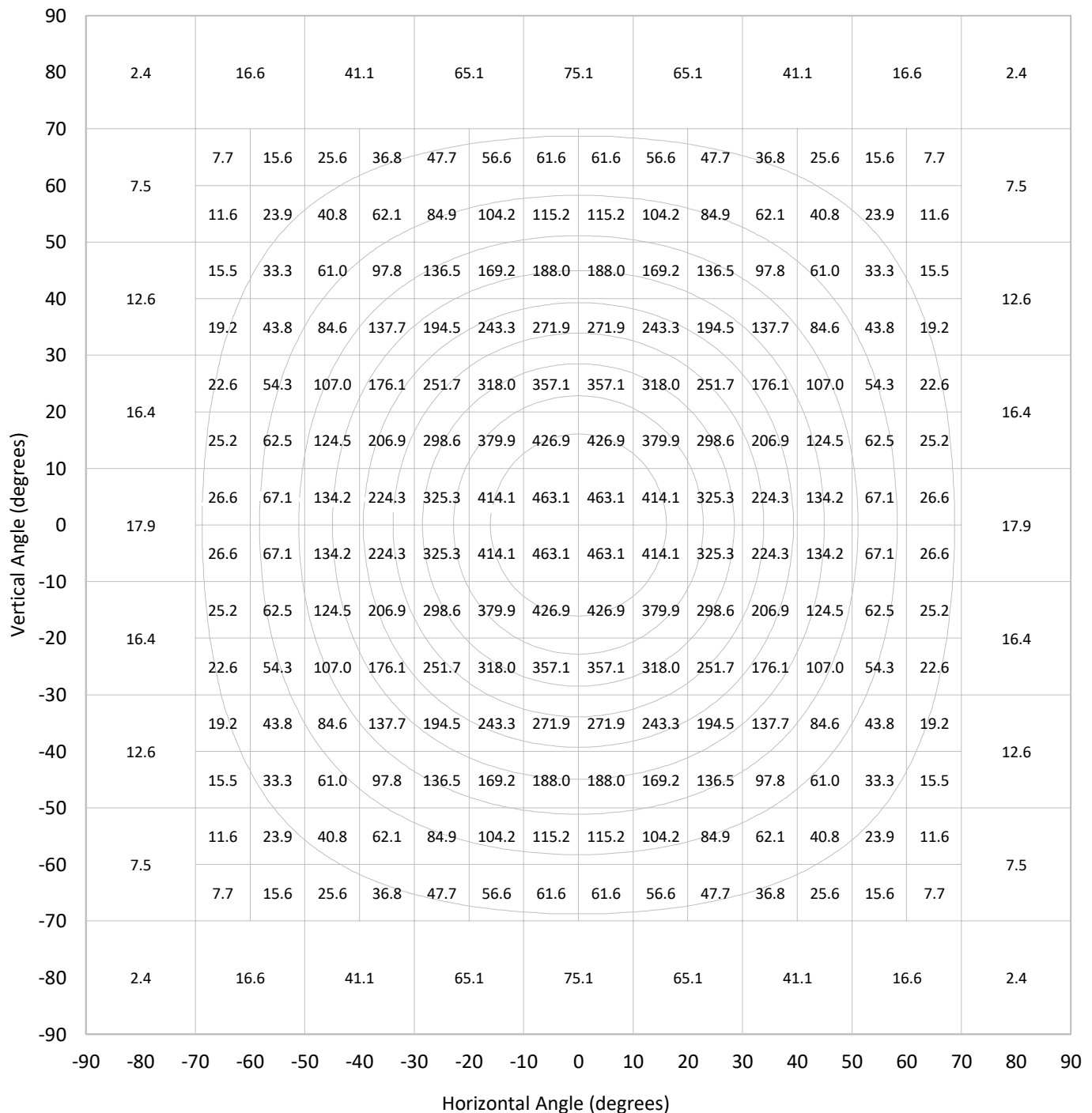
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Iso-Candela Plot



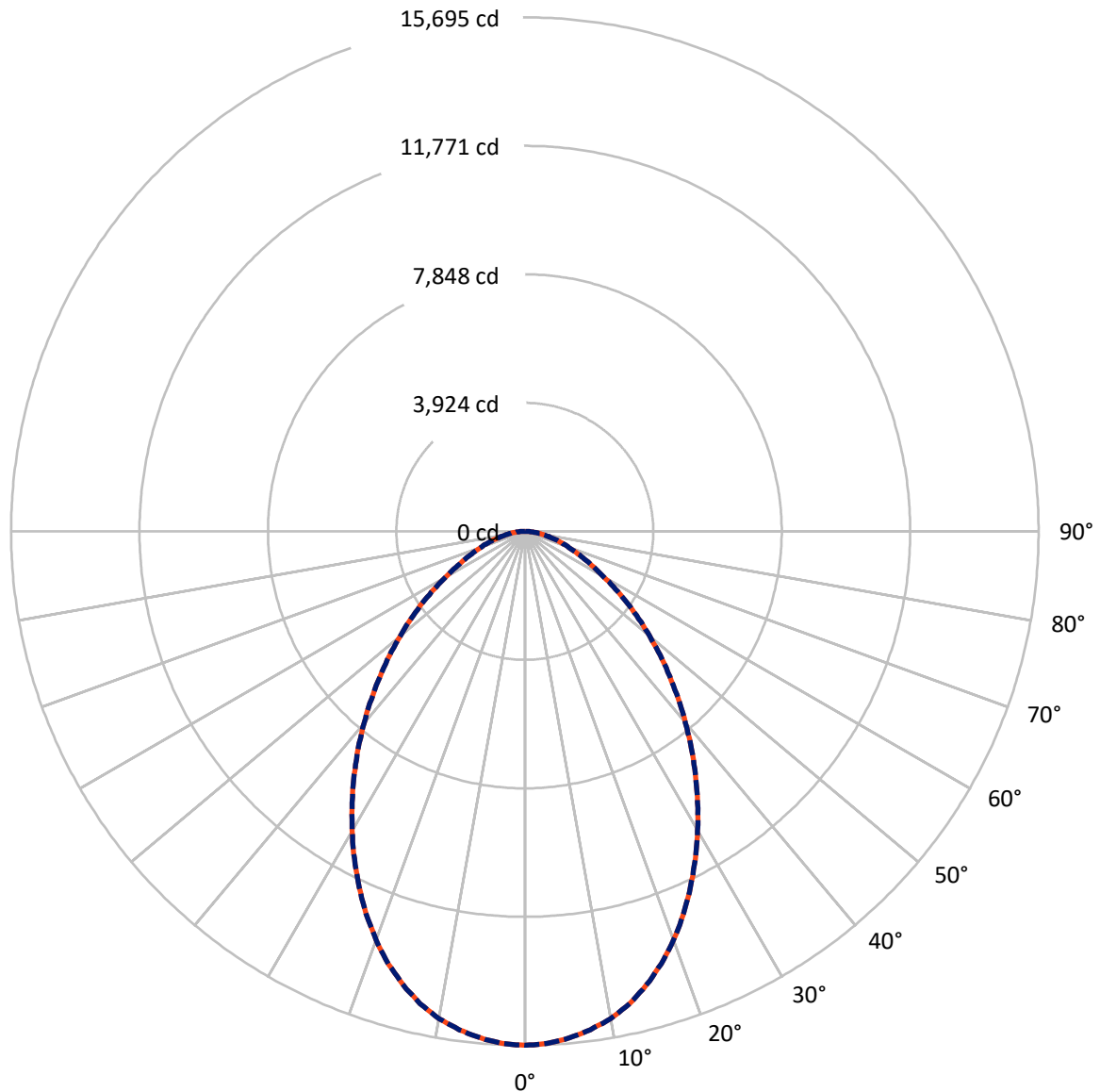
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Lumen Table



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Luminous Intensity Polar Plot

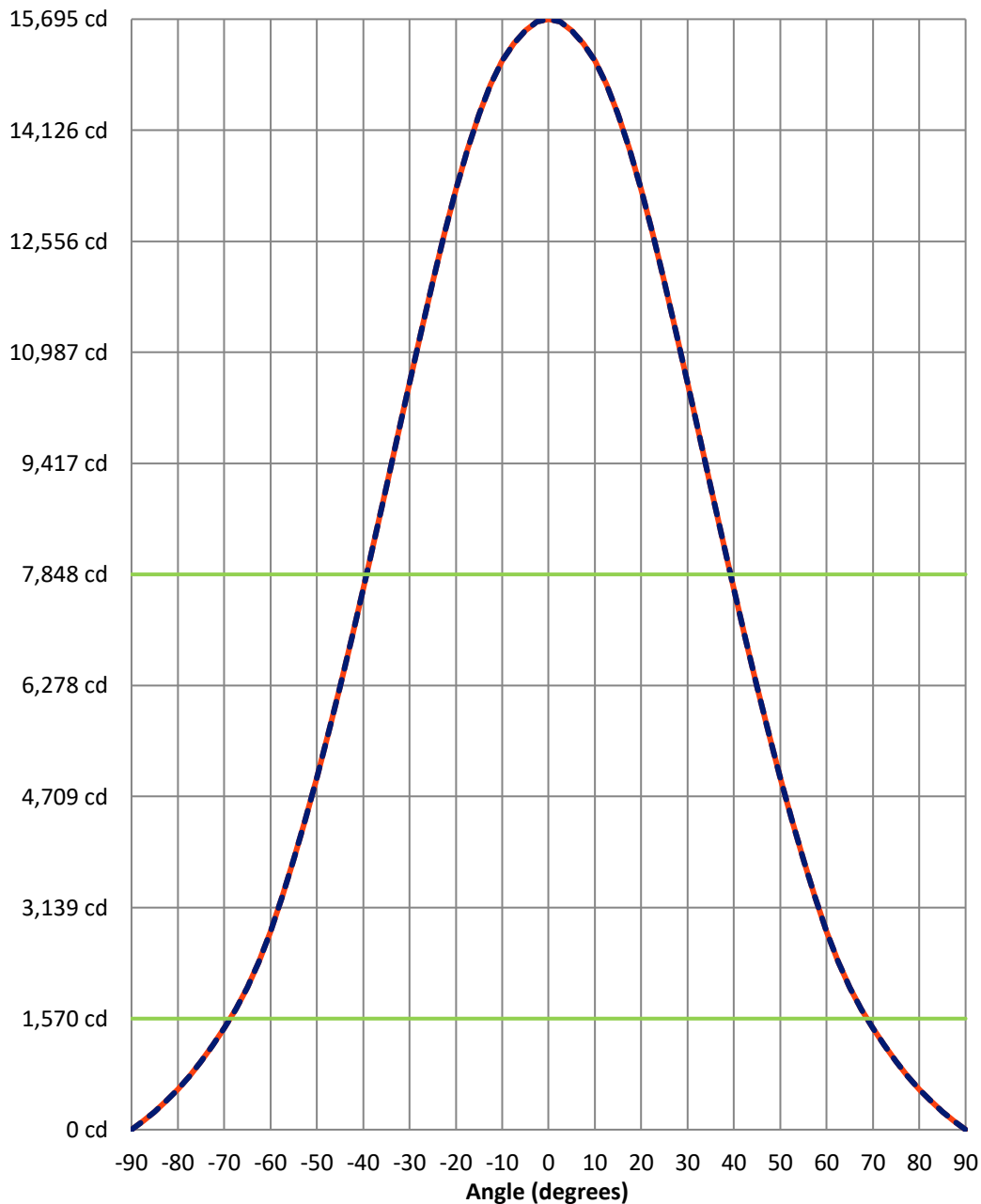


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 12227.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 20022.3
Efficiency: 70.9%

Spill:

Lumens: 8237.2
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°	120.8	120.8	120.8	120.8	120.8	120.8	120.8	114.9	114.9	112.0	109.0
85°	253.4	253.4	253.4	253.4	253.4	247.5	244.5	241.6	238.7	232.8	229.8
82.5°	406.6	406.6	406.6	406.6	400.7	394.8	391.9	386.0	380.1	371.2	362.4
80°	568.6	568.6	568.6	568.6	559.8	553.9	545.1	539.2	530.3	518.6	506.8
77.5°	754.3	754.3	754.3	745.4	739.5	730.7	721.9	710.1	698.3	683.6	665.9
75°	963.5	963.5	963.5	951.7	942.8	934.0	919.3	904.5	886.9	866.2	842.7
72.5°	1190.3	1190.3	1190.3	1175.6	1166.8	1152.0	1134.3	1113.7	1093.1	1066.6	1037.1
70°	1434.9	1434.9	1434.9	1417.2	1402.5	1387.7	1364.2	1340.6	1311.1	1281.7	1246.3
67.5°	1700.0	1700.0	1700.0	1679.4	1661.7	1641.1	1614.6	1585.1	1549.8	1508.5	1467.3
65°	2009.4	2009.4	1997.6	1979.9	1959.3	1929.9	1897.4	1856.2	1812.0	1759.0	1703.0
62.5°	2374.8	2374.8	2357.1	2336.5	2309.9	2271.6	2227.4	2174.4	2112.5	2044.8	1977.0
60°	2799.0	2799.0	2778.4	2751.9	2713.6	2666.4	2607.5	2539.8	2463.1	2377.7	2295.2
57.5°	3288.1	3288.1	3261.6	3226.2	3179.1	3120.2	3046.5	2961.1	2863.8	2757.8	2654.7
55°	3818.5	3818.5	3786.1	3744.8	3688.8	3618.1	3529.7	3429.5	3311.7	3190.9	3058.3
52.5°	4381.2	4381.2	4342.9	4295.8	4231.0	4148.5	4048.3	3930.4	3794.9	3653.5	3497.3
50°	4973.4	4973.4	4929.2	4876.2	4802.5	4705.3	4590.4	4454.9	4304.6	4139.6	3959.9
47.5°	5606.9	5606.9	5556.8	5494.9	5406.5	5294.6	5159.1	5002.9	4832.0	4646.4	4443.1
45°	6258.0	6258.0	6202.1	6131.3	6034.1	5907.4	5757.2	5606.9	5388.9	5173.8	4938.1
42.5°	6935.7	6935.7	6870.9	6791.3	6679.4	6540.9	6370.0	6175.5	5960.5	5718.9	5462.5
40°	7639.9	7639.9	7566.2	7474.9	7351.1	7192.0	7000.5	6782.5	6540.9	6272.8	5989.9
37.5°	8358.8	8358.8	8276.3	8176.1	8037.6	7860.9	7645.8	7404.2	7133.1	6835.5	6523.2
35°	9083.6	9083.6	8992.3	8883.2	8730.0	8535.6	8302.8	8034.7	7734.2	7410.1	7059.4
32.5°	9823.1	9823.1	9722.9	9599.2	9425.4	9210.3	8953.9	8662.3	8358.8	7981.7	7598.6
30°	10553.8	10553.8	10444.8	10309.3	10123.6	9887.9	9608.0	9286.9	8930.4	8544.4	8131.9
27.5°	11272.7	11243.3	11151.9	11007.6	10804.3	10553.8	10250.3	9902.7	9516.7	9092.4	8650.5
25°	11979.8	11947.4	11847.3	11688.2	11470.1	11196.1	10869.1	10497.8	10082.4	9634.6	9151.4
22.5°	12657.5	12622.2	12516.1	12345.2	12112.4	11814.9	11464.2	11066.5	10624.5	10144.3	9634.6
20°	13285.1	13246.8	13137.8	12958.0	12716.4	12401.2	12029.9	11602.7	11131.3	10624.5	10082.4
17.5°	13850.8	13812.5	13697.6	13511.9	13285.1	12934.5	12551.4	12100.6	11602.7	11066.5	10497.8
15°	14348.7	14307.5	14189.6	14004.0	13744.7	13414.7	13011.1	12551.4	12029.9	11464.2	10869.1
12.5°	14773.0	14731.7	14610.9	14425.3	14157.2	13827.2	13414.7	12934.5	12401.2	11814.9	11196.1
10°	15108.9	15067.6	14952.7	14775.9	14499.0	14157.2	13744.7	13285.1	12716.4	12112.4	11470.1
7.5°	15350.5	15312.2	15206.1	15029.3	14775.9	14425.3	14004.0	13511.9	12958.0	12345.2	11688.2
5°	15533.1	15488.9	15382.9	15206.1	14952.7	14610.9	14189.6	13697.6	13137.8	12516.1	11847.3
2.5°	15659.8	15606.8	15488.9	15312.2	15067.6	14731.7	14307.5	13812.5	13246.8	12622.2	11947.4
0°	15695.2	15659.8	15533.1	15350.5	15108.9	14773.0	14348.7	13850.8	13285.1	12657.5	11979.8

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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°	106.1	106.1	103.1	100.2	97.2	91.3	88.4	85.4	82.5	76.6	73.7
85°	223.9	218.0	212.1	206.2	197.4	191.5	182.7	176.8	167.9	159.1	150.3
82.5°	353.6	344.7	332.9	324.1	312.3	297.6	285.8	271.1	256.3	244.5	229.8
80°	495.0	480.3	465.5	450.8	433.1	415.4	397.8	380.1	359.5	338.8	318.2
77.5°	648.2	627.6	606.9	583.4	562.8	539.2	515.6	492.0	465.5	439.0	412.5
75°	819.1	792.6	763.1	733.6	707.1	674.7	642.3	609.9	574.5	542.1	506.8
72.5°	1004.7	972.3	936.9	901.6	863.3	822.0	780.8	736.6	695.3	654.1	609.9
70°	1205.1	1166.8	1122.6	1078.4	1031.2	981.1	931.0	878.0	825.0	771.9	718.9
67.5°	1420.1	1373.0	1320.0	1266.9	1208.0	1149.1	1090.1	1028.3	963.5	898.6	836.8
65°	1650.0	1591.0	1529.2	1461.4	1393.6	1325.9	1255.1	1181.5	1107.8	1031.2	963.5
62.5°	1906.3	1832.6	1753.1	1670.6	1594.0	1511.5	1434.9	1343.5	1255.1	1169.7	1084.3
60°	2203.9	2106.6	2009.4	1906.3	1809.1	1703.0	1608.7	1508.5	1408.4	1311.1	1210.9
57.5°	2536.8	2413.1	2295.2	2171.5	2041.8	1924.0	1803.2	1682.4	1570.4	1455.5	1346.5
55°	2913.9	2763.7	2616.4	2463.1	2312.9	2165.6	2012.4	1876.8	1738.3	1608.7	1482.0
52.5°	3326.4	3155.5	2972.9	2799.0	2607.5	2424.8	2254.0	2083.1	1921.0	1764.9	1620.5
50°	3768.4	3568.0	3358.8	3146.7	2928.7	2713.6	2507.3	2307.0	2118.4	1935.7	1764.9
47.5°	4228.0	4001.1	3762.5	3520.9	3288.1	3025.9	2778.4	2551.5	2324.7	2118.4	1921.0
45°	4699.4	4443.1	4180.9	3906.9	3632.8	3350.0	3076.0	2799.0	2551.5	2307.0	2083.1
42.5°	5185.6	4896.8	4605.1	4301.7	3998.2	3688.8	3379.5	3076.0	2778.4	2507.3	2254.0
40°	5686.4	5368.2	5035.3	4705.3	4381.2	4027.7	3688.8	3350.0	3025.9	2713.6	2424.8
37.5°	6187.3	5839.7	5480.2	5109.0	4737.7	4381.2	3998.2	3632.8	3288.1	2928.7	2607.5
35°	6691.2	6308.1	5919.2	5515.6	5109.0	4705.3	4301.7	3906.9	3520.9	3146.7	2799.0
32.5°	7197.9	6779.5	6349.4	5919.2	5480.2	5035.3	4605.1	4180.9	3762.5	3358.8	2972.9
30°	7695.9	7242.1	6779.5	6308.1	5839.7	5368.2	4896.8	4443.1	4001.1	3568.0	3155.5
27.5°	8182.0	7695.9	7197.9	6691.2	6187.3	5686.4	5185.6	4699.4	4228.0	3768.4	3326.4
25°	8650.5	8131.9	7598.6	7059.4	6523.2	5989.9	5462.5	4938.1	4443.1	3959.9	3497.3
22.5°	9092.4	8544.4	7981.7	7410.1	6835.5	6272.8	5718.9	5173.8	4646.4	4139.6	3653.5
20°	9516.7	8930.4	8358.8	7734.2	7133.1	6540.9	5960.5	5388.9	4832.0	4304.6	3794.9
17.5°	9902.7	9286.9	8662.3	8034.7	7404.2	6782.5	6175.5	5606.9	5002.9	4454.9	3930.4
15°	10250.3	9608.0	8953.9	8302.8	7645.8	7000.5	6370.0	5757.2	5159.1	4590.4	4048.3
12.5°	10553.8	9887.9	9210.3	8535.6	7860.9	7192.0	6540.9	5907.4	5294.6	4705.3	4148.5
10°	10804.3	10123.6	9425.4	8730.0	8037.6	7351.1	6679.4	6034.1	5406.5	4802.5	4231.0
7.5°	11007.6	10309.3	9599.2	8883.2	8176.1	7474.9	6791.3	6131.3	5494.9	4876.2	4295.8
5°	11151.9	10444.8	9722.9	8992.3	8276.3	7566.2	6870.9	6202.1	5556.8	4929.2	4342.9
2.5°	11243.3	10553.8	9823.1	9083.6	8358.8	7639.9	6935.7	6258.0	5606.9	4973.4	4381.2
0°	11272.7	10553.8	9823.1	9083.6	8358.8	7639.9	6935.7	6258.0	5606.9	4973.4	4381.2

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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°	70.7	64.8	58.9	56.0	50.1	47.1	41.2	35.4	32.4	26.5	20.6
85°	141.4	129.6	120.8	112.0	103.1	91.3	82.5	73.7	61.9	53.0	41.2
82.5°	215.1	200.4	185.6	170.9	156.2	141.4	123.7	109.0	94.3	79.6	61.9
80°	297.6	274.0	253.4	232.8	212.1	191.5	167.9	147.3	123.7	103.1	82.5
77.5°	383.0	356.5	327.0	297.6	268.1	241.6	212.1	185.6	159.1	129.6	103.1
75°	474.4	439.0	406.6	368.3	332.9	294.6	259.3	223.9	191.5	159.1	123.7
72.5°	568.6	524.4	480.3	439.0	394.8	350.6	309.4	265.2	223.9	185.6	147.3
70°	665.9	612.8	559.8	509.7	459.6	406.6	359.5	309.4	259.3	212.1	167.9
67.5°	769.0	707.1	645.2	580.4	524.4	465.5	406.6	350.6	294.6	241.6	191.5
65°	881.0	807.3	730.7	662.9	589.3	524.4	459.6	394.8	332.9	268.1	212.1
62.5°	995.9	910.4	825.0	739.5	662.9	580.4	509.7	439.0	368.3	297.6	232.8
60°	1113.7	1016.5	919.3	825.0	730.7	645.2	559.8	480.3	406.6	327.0	253.4
57.5°	1234.5	1125.5	1016.5	910.4	807.3	707.1	612.8	524.4	439.0	356.5	274.0
55°	1358.3	1234.5	1113.7	995.9	881.0	769.0	665.9	568.6	474.4	383.0	297.6
52.5°	1482.0	1346.5	1210.9	1084.3	963.5	836.8	718.9	609.9	506.8	412.5	318.2
50°	1608.7	1455.5	1311.1	1169.7	1031.2	898.6	771.9	654.1	542.1	439.0	338.8
47.5°	1738.3	1570.4	1408.4	1255.1	1107.8	963.5	825.0	695.3	574.5	465.5	359.5
45°	1876.8	1682.4	1508.5	1343.5	1181.5	1028.3	878.0	736.6	609.9	492.0	380.1
42.5°	2012.4	1803.2	1608.7	1434.9	1255.1	1090.1	931.0	780.8	642.3	515.6	397.8
40°	2165.6	1924.0	1703.0	1511.5	1325.9	1149.1	981.1	822.0	674.7	539.2	415.4
37.5°	2312.9	2041.8	1809.1	1594.0	1393.6	1208.0	1031.2	863.3	707.1	562.8	433.1
35°	2463.1	2171.5	1906.3	1670.6	1461.4	1266.9	1078.4	901.6	733.6	583.4	450.8
32.5°	2616.4	2295.2	2009.4	1753.1	1529.2	1320.0	1122.6	936.9	763.1	606.9	465.5
30°	2763.7	2413.1	2106.6	1832.6	1591.0	1373.0	1166.8	972.3	792.6	627.6	480.3
27.5°	2913.9	2536.8	2203.9	1906.3	1650.0	1420.1	1205.1	1004.7	819.1	648.2	495.0
25°	3058.3	2654.7	2295.2	1977.0	1703.0	1467.3	1246.3	1037.1	842.7	665.9	506.8
22.5°	3190.9	2757.8	2377.7	2044.8	1759.0	1508.5	1281.7	1066.6	866.2	683.6	518.6
20°	3311.7	2863.8	2463.1	2112.5	1812.0	1549.8	1311.1	1093.1	886.9	698.3	530.3
17.5°	3429.5	2961.1	2539.8	2174.4	1856.2	1585.1	1340.6	1113.7	904.5	710.1	539.2
15°	3529.7	3046.5	2607.5	2227.4	1897.4	1614.6	1364.2	1134.3	919.3	721.9	545.1
12.5°	3618.1	3120.2	2666.4	2271.6	1929.9	1641.1	1387.7	1152.0	934.0	730.7	553.9
10°	3688.8	3179.1	2713.6	2309.9	1959.3	1661.7	1402.5	1166.8	942.8	739.5	559.8
7.5°	3744.8	3226.2	2751.9	2336.5	1979.9	1679.4	1417.2	1175.6	951.7	745.4	568.6
5°	3786.1	3261.6	2778.4	2357.1	1997.6	1700.0	1434.9	1190.3	963.5	754.3	568.6
2.5°	3818.5	3288.1	2799.0	2374.8	2009.4	1700.0	1434.9	1190.3	963.5	754.3	568.6
0°	3818.5	3288.1	2799.0	2374.8	2009.4	1700.0	1434.9	1190.3	963.5	754.3	568.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.7	11.8	5.9	0.0
85°	32.4	20.6	11.8	0.0
82.5°	47.1	32.4	14.7	0.0
80°	61.9	41.2	20.6	0.0
77.5°	79.6	53.0	26.5	0.0
75°	94.3	61.9	32.4	0.0
72.5°	109.0	73.7	35.4	0.0
70°	123.7	82.5	41.2	0.0
67.5°	141.4	91.3	47.1	0.0
65°	156.2	103.1	50.1	0.0
62.5°	170.9	112.0	56.0	0.0
60°	185.6	120.8	58.9	0.0
57.5°	200.4	129.6	64.8	0.0
55°	215.1	141.4	70.7	0.0
52.5°	229.8	150.3	73.7	0.0
50°	244.5	159.1	76.6	0.0
47.5°	256.3	167.9	82.5	0.0
45°	271.1	176.8	85.4	0.0
42.5°	285.8	182.7	88.4	0.0
40°	297.6	191.5	91.3	0.0
37.5°	312.3	197.4	97.2	0.0
35°	324.1	206.2	100.2	0.0
32.5°	332.9	212.1	103.1	0.0
30°	344.7	218.0	106.1	0.0
27.5°	353.6	223.9	106.1	0.0
25°	362.4	229.8	109.0	0.0
22.5°	371.2	232.8	112.0	0.0
20°	380.1	238.7	114.9	0.0
17.5°	386.0	241.6	114.9	0.0
15°	391.9	244.5	120.8	0.0
12.5°	394.8	247.5	120.8	0.0
10°	400.7	253.4	120.8	0.0
7.5°	406.6	253.4	120.8	0.0
5°	406.6	253.4	120.8	0.0
2.5°	406.6	253.4	120.8	0.0
0°	406.6	253.4	120.8	0.0

(END OF REPORT)