

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: P623850

Luminaire Tested: **IFLD-S-SA6A-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23433.7 lumens	Max Intensity:	13014.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	10139.5 lumens	Field Lumens:	16603.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

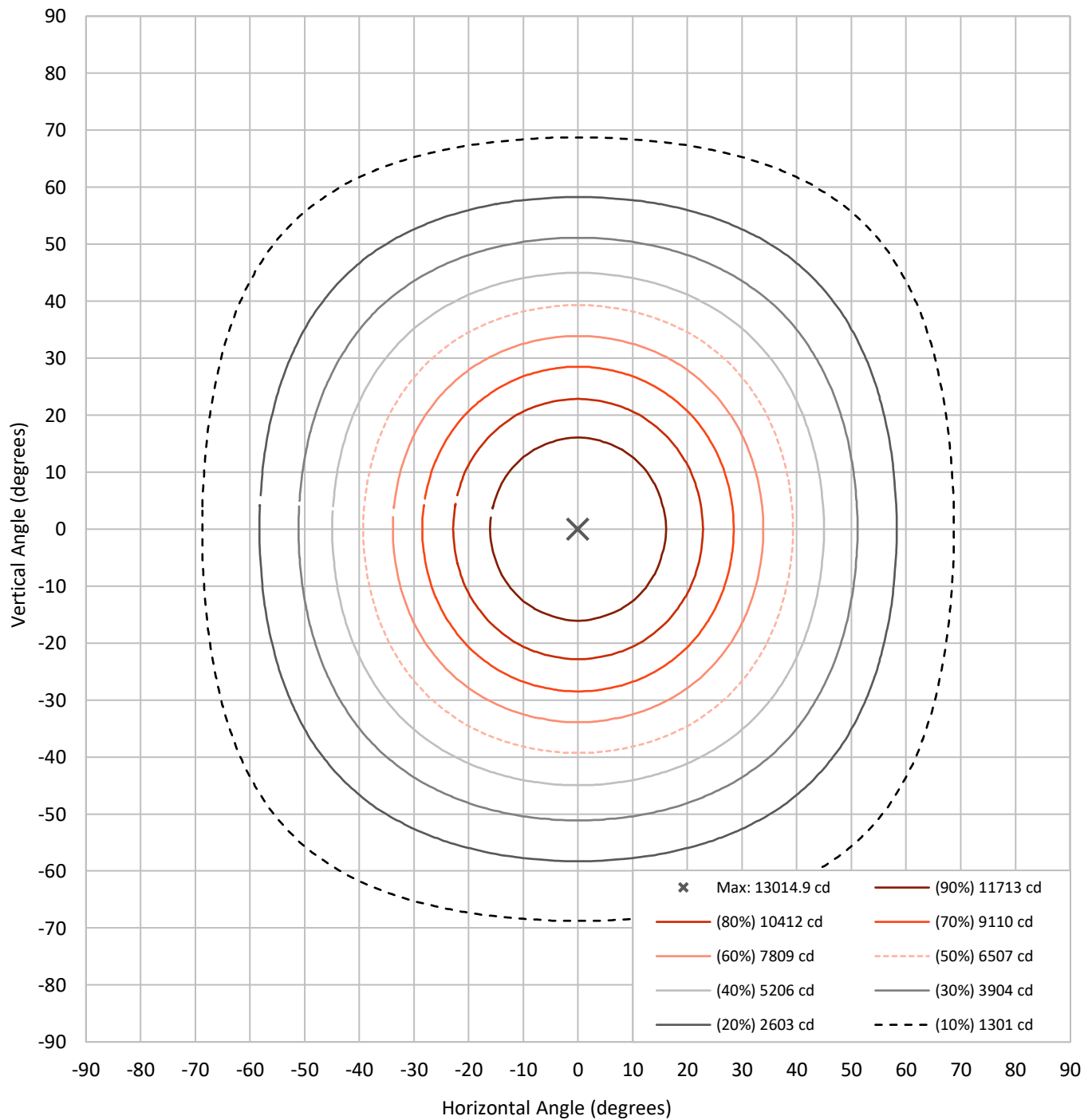
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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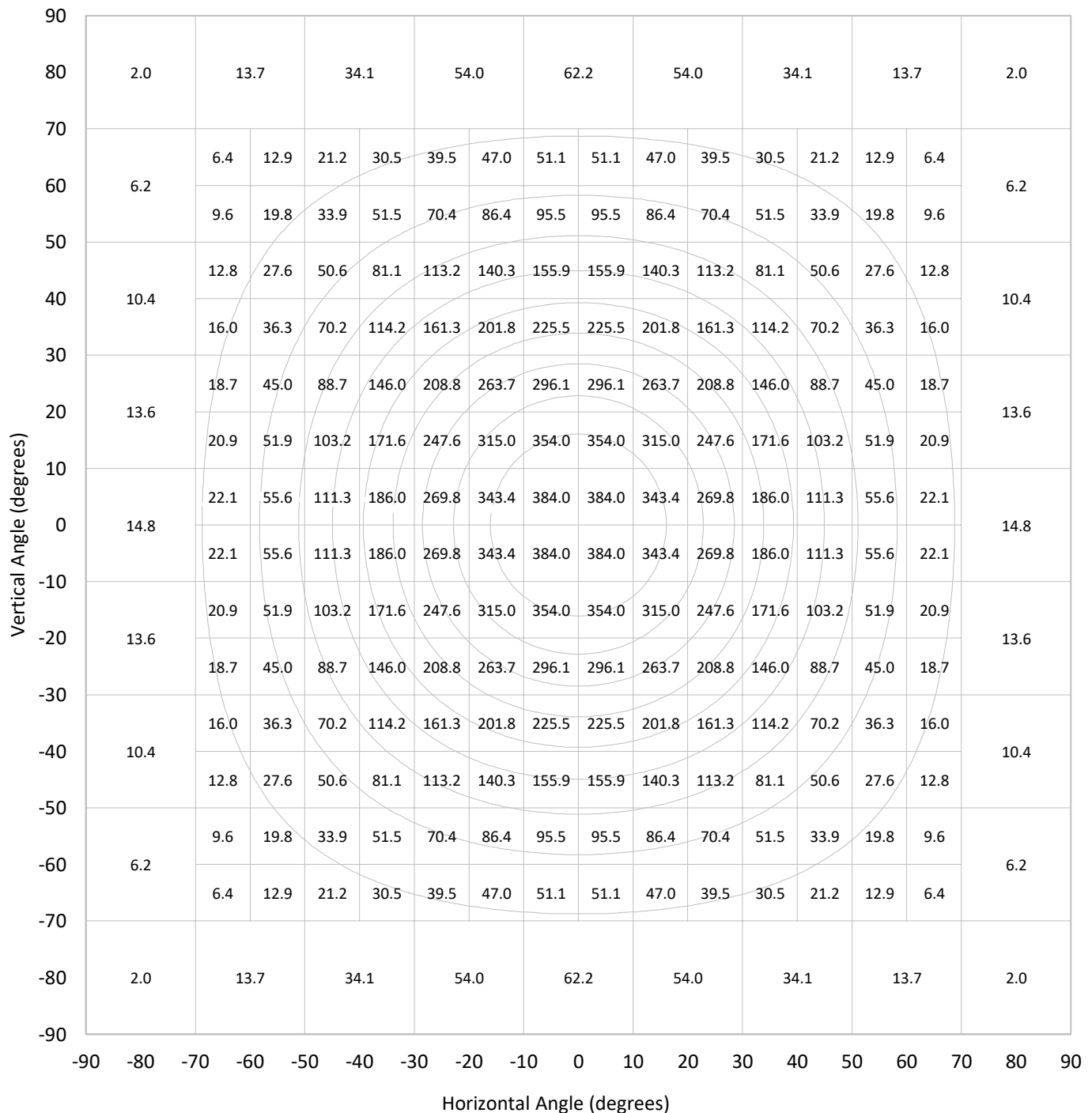
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Iso-Candela Plot



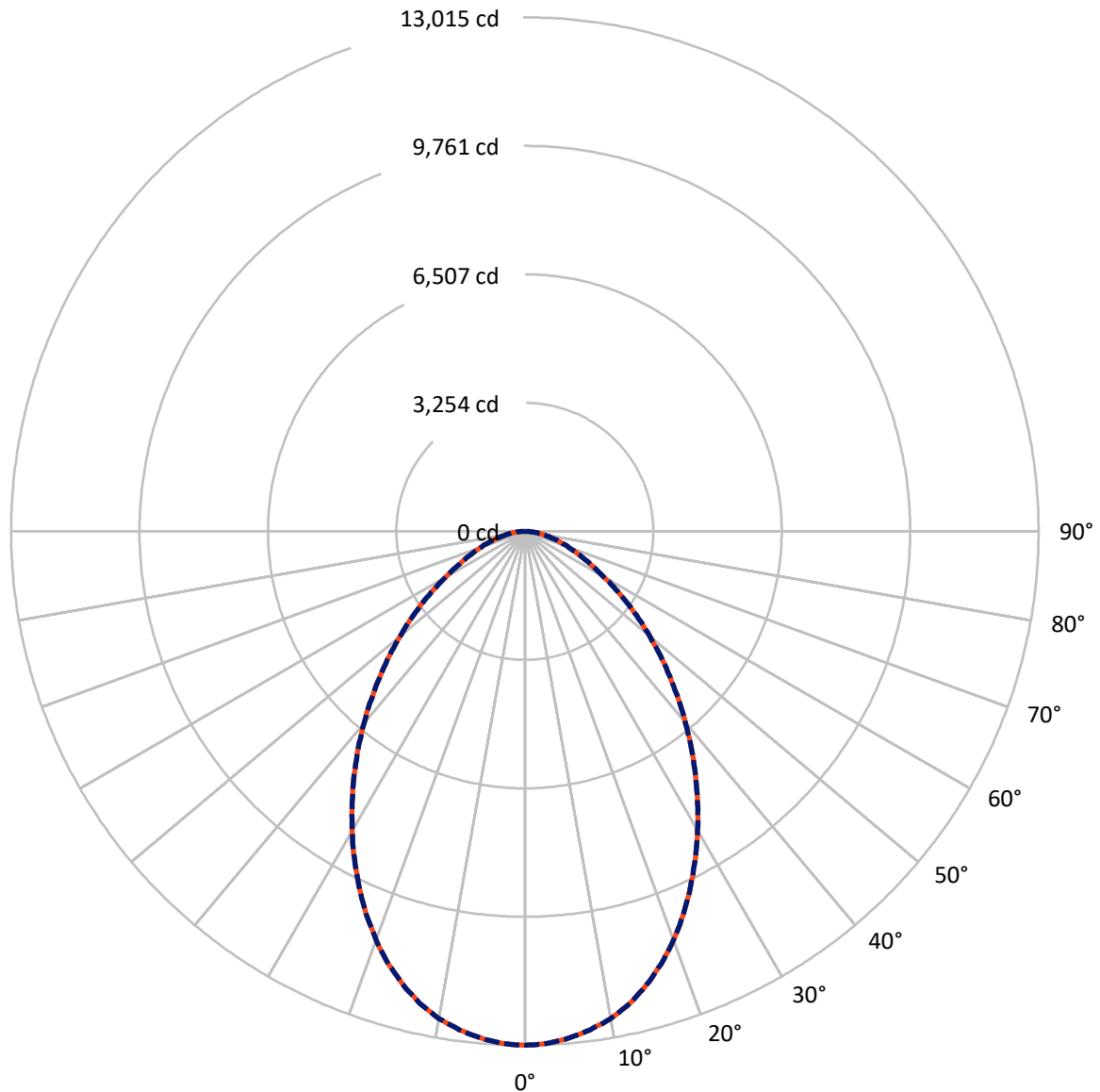
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Lumen Table



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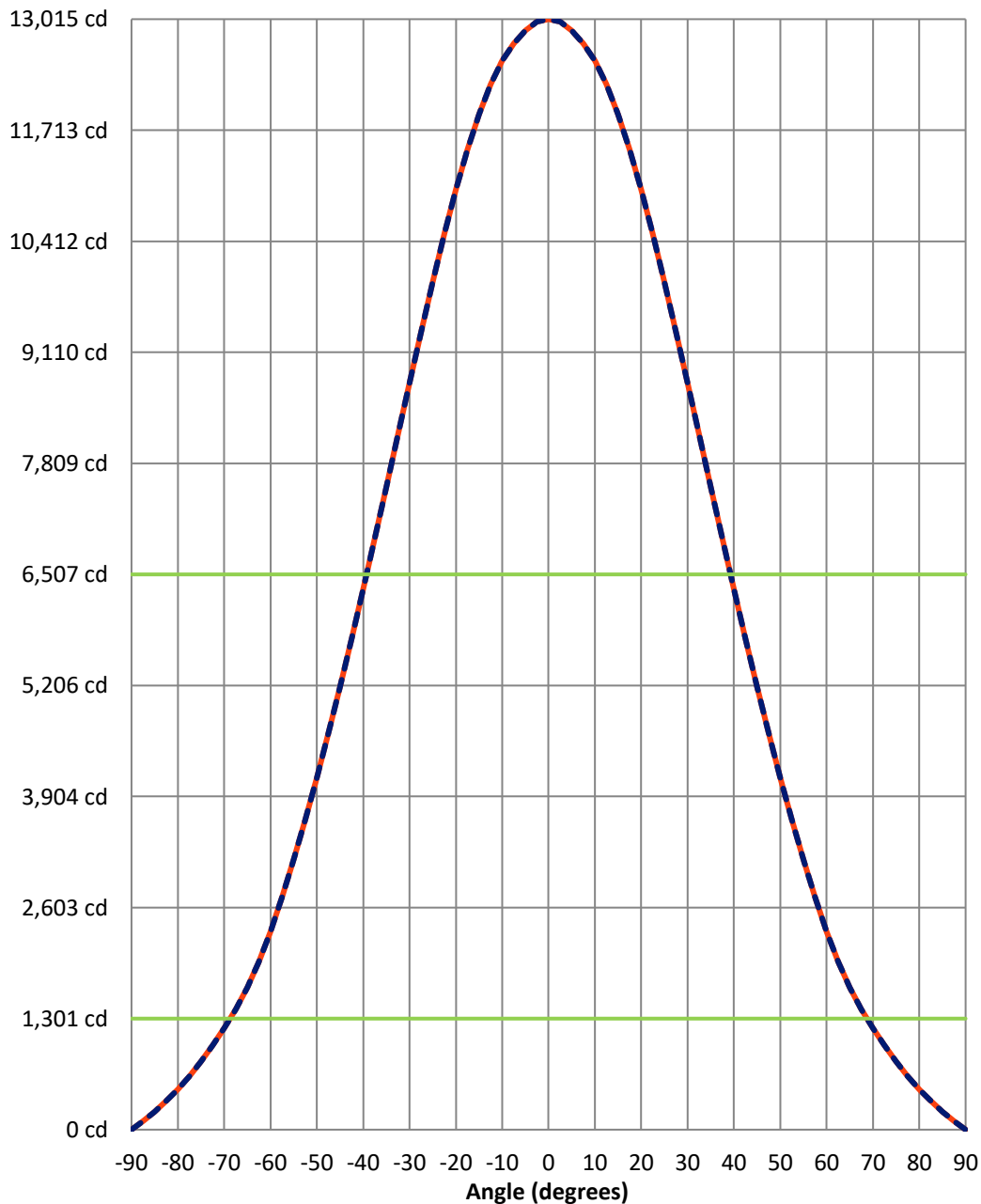
Luminous Intensity Polar Plot



— 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: 10139.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16603.1
Efficiency: 70.9%

Spill:

Lumens: 6830.6
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°	100.2	100.2	100.2	100.2	100.2	100.2	100.2	95.3	95.3	92.8	90.4
85°	210.1	210.1	210.1	210.1	210.1	205.2	202.8	200.3	197.9	193.0	190.6
82.5°	337.2	337.2	337.2	337.2	332.3	327.4	324.9	320.1	315.2	307.8	300.5
80°	471.5	471.5	471.5	471.5	464.2	459.3	452.0	447.1	439.8	430.0	420.2
77.5°	625.5	625.5	625.5	618.1	613.2	605.9	598.6	588.8	579.0	566.8	552.2
75°	798.9	798.9	798.9	789.2	781.8	774.5	762.3	750.1	735.4	718.3	698.8
72.5°	987.1	987.1	987.1	974.8	967.5	955.3	940.6	923.5	906.4	884.4	860.0
70°	1189.8	1189.8	1189.8	1175.2	1163.0	1150.7	1131.2	1111.7	1087.2	1062.8	1033.5
67.5°	1409.7	1409.7	1409.7	1392.6	1378.0	1360.9	1338.9	1314.4	1285.1	1250.9	1216.7
65°	1666.3	1666.3	1656.5	1641.8	1624.7	1600.3	1573.4	1539.2	1502.6	1458.6	1412.2
62.5°	1969.2	1969.2	1954.6	1937.5	1915.5	1883.7	1847.1	1803.1	1751.8	1695.6	1639.4
60°	2321.0	2321.0	2303.9	2282.0	2250.2	2211.1	2162.2	2106.0	2042.5	1971.7	1903.3
57.5°	2726.6	2726.6	2704.6	2675.3	2636.2	2587.4	2526.3	2455.4	2374.8	2286.8	2201.3
55°	3166.4	3166.4	3139.5	3105.3	3058.9	3000.3	2927.0	2843.9	2746.2	2646.0	2536.0
52.5°	3633.0	3633.0	3601.3	3562.2	3508.4	3440.0	3357.0	3259.2	3146.8	3029.6	2900.1
50°	4124.1	4124.1	4087.5	4043.5	3982.4	3901.8	3806.5	3694.1	3569.5	3432.7	3283.7
47.5°	4649.4	4649.4	4607.9	4556.6	4483.3	4390.4	4278.0	4148.6	4006.9	3852.9	3684.4
45°	5189.4	5189.4	5142.9	5084.3	5003.7	4898.6	4774.0	4649.4	4468.6	4290.3	4094.8
42.5°	5751.3	5751.3	5697.6	5631.6	5538.7	5423.9	5282.2	5121.0	4942.6	4742.3	4529.7
40°	6335.2	6335.2	6274.1	6198.4	6095.8	5963.9	5805.1	5624.3	5423.9	5201.6	4967.0
37.5°	6931.4	6931.4	6863.0	6779.9	6665.1	6518.5	6340.1	6139.8	5915.0	5668.2	5409.3
35°	7532.4	7532.4	7456.7	7366.3	7239.2	7078.0	6884.9	6662.6	6413.4	6144.7	5853.9
32.5°	8145.6	8145.6	8062.6	7960.0	7815.8	7637.5	7424.9	7183.0	6931.4	6618.6	6301.0
30°	8751.6	8751.6	8661.2	8548.8	8394.8	8199.4	7967.3	7701.0	7405.4	7085.3	6743.2
27.5°	9347.7	9323.3	9247.5	9127.8	8959.2	8751.6	8499.9	8211.6	7891.5	7539.7	7173.2
25°	9934.1	9907.2	9824.1	9692.2	9511.4	9284.2	9013.0	8705.1	8360.6	7989.3	7588.6
22.5°	10496.0	10466.7	10378.7	10237.0	10044.0	9797.2	9506.5	9176.7	8810.2	8412.0	7989.3
20°	11016.4	10984.6	10894.2	10745.2	10544.9	10283.4	9975.6	9621.3	9230.4	8810.2	8360.6
17.5°	11485.5	11453.7	11358.5	11204.5	11016.4	10725.7	10408.0	10034.2	9621.3	9176.7	8705.1
15°	11898.4	11864.2	11766.5	11612.5	11397.5	11123.9	10789.2	10408.0	9975.6	9506.5	9013.0
12.5°	12250.2	12216.0	12115.8	11961.9	11739.6	11466.0	11123.9	10725.7	10283.4	9797.2	9284.2
10°	12528.7	12494.5	12399.3	12252.7	12023.0	11739.6	11397.5	11016.4	10544.9	10044.0	9511.4
7.5°	12729.1	12697.3	12609.4	12462.8	12252.7	11961.9	11612.5	11204.5	10745.2	10237.0	9692.2
5°	12880.6	12843.9	12756.0	12609.4	12399.3	12115.8	11766.5	11358.5	10894.2	10378.7	9824.1
2.5°	12985.6	12941.7	12843.9	12697.3	12494.5	12216.0	11864.2	11453.7	10984.6	10466.7	9907.2
0°	13014.9	12985.6	12880.6	12729.1	12528.7	12250.2	11898.4	11485.5	11016.4	10496.0	9934.1

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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°	88.0	88.0	85.5	83.1	80.6	75.7	73.3	70.9	68.4	63.5	61.1
85°	185.7	180.8	175.9	171.0	163.7	158.8	151.5	146.6	139.3	131.9	124.6
82.5°	293.2	285.9	276.1	268.8	259.0	246.8	237.0	224.8	212.6	202.8	190.6
80°	410.5	398.2	386.0	373.8	359.2	344.5	329.8	315.2	298.1	281.0	263.9
77.5°	537.5	520.4	503.3	483.8	466.7	447.1	427.6	408.0	386.0	364.0	342.0
75°	679.2	657.2	632.8	608.4	586.4	559.5	532.6	505.7	476.4	449.5	420.2
72.5°	833.1	806.3	776.9	747.6	715.9	681.7	647.4	610.8	576.6	542.4	505.7
70°	999.3	967.5	930.9	894.2	855.1	813.6	772.1	728.1	684.1	640.1	596.1
67.5°	1177.6	1138.5	1094.6	1050.6	1001.7	952.8	904.0	852.7	798.9	745.2	693.9
65°	1368.2	1319.3	1268.0	1211.8	1155.6	1099.4	1040.8	979.7	918.6	855.1	798.9
62.5°	1580.8	1519.7	1453.7	1385.3	1321.8	1253.4	1189.8	1114.1	1040.8	970.0	899.1
60°	1827.5	1746.9	1666.3	1580.8	1500.1	1412.2	1334.0	1250.9	1167.9	1087.2	1004.2
57.5°	2103.6	2001.0	1903.3	1800.6	1693.1	1595.4	1495.2	1395.1	1302.2	1206.9	1116.5
55°	2416.3	2291.7	2169.6	2042.5	1917.9	1795.8	1668.7	1556.3	1441.5	1334.0	1228.9
52.5°	2758.4	2616.7	2465.2	2321.0	2162.2	2010.8	1869.1	1727.3	1593.0	1463.5	1343.8
50°	3124.9	2958.7	2785.3	2609.3	2428.5	2250.2	2079.2	1913.0	1756.7	1605.2	1463.5
47.5°	3506.0	3317.9	3120.0	2919.6	2726.6	2509.2	2303.9	2115.8	1927.7	1756.7	1593.0
45°	3896.9	3684.4	3466.9	3239.7	3012.5	2777.9	2550.7	2321.0	2115.8	1913.0	1727.3
42.5°	4300.0	4060.6	3818.7	3567.1	3315.4	3058.9	2802.4	2550.7	2303.9	2079.2	1869.1
40°	4715.4	4451.5	4175.4	3901.8	3633.0	3339.9	3058.9	2777.9	2509.2	2250.2	2010.8
37.5°	5130.7	4842.4	4544.4	4236.5	3928.7	3633.0	3315.4	3012.5	2726.6	2428.5	2162.2
35°	5548.5	5230.9	4908.4	4573.7	4236.5	3901.8	3567.1	3239.7	2919.6	2609.3	2321.0
32.5°	5968.7	5621.8	5265.1	4908.4	4544.4	4175.4	3818.7	3466.9	3120.0	2785.3	2465.2
30°	6381.6	6005.4	5621.8	5230.9	4842.4	4451.5	4060.6	3684.4	3317.9	2958.7	2616.7
27.5°	6784.8	6381.6	5968.7	5548.5	5130.7	4715.4	4300.0	3896.9	3506.0	3124.9	2758.4
25°	7173.2	6743.2	6301.0	5853.9	5409.3	4967.0	4529.7	4094.8	3684.4	3283.7	2900.1
22.5°	7539.7	7085.3	6618.6	6144.7	5668.2	5201.6	4742.3	4290.3	3852.9	3432.7	3029.6
20°	7891.5	7405.4	6931.4	6413.4	5915.0	5423.9	4942.6	4468.6	4006.9	3569.5	3146.8
17.5°	8211.6	7701.0	7183.0	6662.6	6139.8	5624.3	5121.0	4649.4	4148.6	3694.1	3259.2
15°	8499.9	7967.3	7424.9	6884.9	6340.1	5805.1	5282.2	4774.0	4278.0	3806.5	3357.0
12.5°	8751.6	8199.4	7637.5	7078.0	6518.5	5963.9	5423.9	4898.6	4390.4	3901.8	3440.0
10°	8959.2	8394.8	7815.8	7239.2	6665.1	6095.8	5538.7	5003.7	4483.3	3982.4	3508.4
7.5°	9127.8	8548.8	7960.0	7366.3	6779.9	6198.4	5631.6	5084.3	4556.6	4043.5	3562.2
5°	9247.5	8661.2	8062.6	7456.7	6863.0	6274.1	5697.6	5142.9	4607.9	4087.5	3601.3
2.5°	9323.3	8751.6	8145.6	7532.4	6931.4	6335.2	5751.3	5189.4	4649.4	4124.1	3633.0
0°	9347.7	8751.6	8145.6	7532.4	6931.4	6335.2	5751.3	5189.4	4649.4	4124.1	3633.0

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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°	58.6	53.8	48.9	46.4	41.5	39.1	34.2	29.3	26.9	22.0	17.1
85°	117.3	107.5	100.2	92.8	85.5	75.7	68.4	61.1	51.3	44.0	34.2
82.5°	178.4	166.1	153.9	141.7	129.5	117.3	102.6	90.4	78.2	66.0	51.3
80°	246.8	227.2	210.1	193.0	175.9	158.8	139.3	122.2	102.6	85.5	68.4
77.5°	317.6	295.6	271.2	246.8	222.3	200.3	175.9	153.9	131.9	107.5	85.5
75°	393.4	364.0	337.2	305.4	276.1	244.3	215.0	185.7	158.8	131.9	102.6
72.5°	471.5	434.9	398.2	364.0	327.4	290.7	256.5	219.9	185.7	153.9	122.2
70°	552.2	508.2	464.2	422.7	381.1	337.2	298.1	256.5	215.0	175.9	139.3
67.5°	637.7	586.4	535.1	481.3	434.9	386.0	337.2	290.7	244.3	200.3	158.8
65°	730.5	669.4	605.9	549.7	488.6	434.9	381.1	327.4	276.1	222.3	175.9
62.5°	825.8	754.9	684.1	613.2	549.7	481.3	422.7	364.0	305.4	246.8	193.0
60°	923.5	842.9	762.3	684.1	605.9	535.1	464.2	398.2	337.2	271.2	210.1
57.5°	1023.7	933.3	842.9	754.9	669.4	586.4	508.2	434.9	364.0	295.6	227.2
55°	1126.3	1023.7	923.5	825.8	730.5	637.7	552.2	471.5	393.4	317.6	246.8
52.5°	1228.9	1116.5	1004.2	899.1	798.9	693.9	596.1	505.7	420.2	342.0	263.9
50°	1334.0	1206.9	1087.2	970.0	855.1	745.2	640.1	542.4	449.5	364.0	281.0
47.5°	1441.5	1302.2	1167.9	1040.8	918.6	798.9	684.1	576.6	476.4	386.0	298.1
45°	1556.3	1395.1	1250.9	1114.1	979.7	852.7	728.1	610.8	505.7	408.0	315.2
42.5°	1668.7	1495.2	1334.0	1189.8	1040.8	904.0	772.1	647.4	532.6	427.6	329.8
40°	1795.8	1595.4	1412.2	1253.4	1099.4	952.8	813.6	681.7	559.5	447.1	344.5
37.5°	1917.9	1693.1	1500.1	1321.8	1155.6	1001.7	855.1	715.9	586.4	466.7	359.2
35°	2042.5	1800.6	1580.8	1385.3	1211.8	1050.6	894.2	747.6	608.4	483.8	373.8
32.5°	2169.6	1903.3	1666.3	1453.7	1268.0	1094.6	930.9	776.9	632.8	503.3	386.0
30°	2291.7	2001.0	1746.9	1519.7	1319.3	1138.5	967.5	806.3	657.2	520.4	398.2
27.5°	2416.3	2103.6	1827.5	1580.8	1368.2	1177.6	999.3	833.1	679.2	537.5	410.5
25°	2536.0	2201.3	1903.3	1639.4	1412.2	1216.7	1033.5	860.0	698.8	552.2	420.2
22.5°	2646.0	2286.8	1971.7	1695.6	1458.6	1250.9	1062.8	884.4	718.3	566.8	430.0
20°	2746.2	2374.8	2042.5	1751.8	1502.6	1285.1	1087.2	906.4	735.4	579.0	439.8
17.5°	2843.9	2455.4	2106.0	1803.1	1539.2	1314.4	1111.7	923.5	750.1	588.8	447.1
15°	2927.0	2526.3	2162.2	1847.1	1573.4	1338.9	1131.2	940.6	762.3	598.6	452.0
12.5°	3000.3	2587.4	2211.1	1883.7	1600.3	1360.9	1150.7	955.3	774.5	605.9	459.3
10°	3058.9	2636.2	2250.2	1915.5	1624.7	1378.0	1163.0	967.5	781.8	613.2	464.2
7.5°	3105.3	2675.3	2282.0	1937.5	1641.8	1392.6	1175.2	974.8	789.2	618.1	471.5
5°	3139.5	2704.6	2303.9	1954.6	1656.5	1409.7	1189.8	987.1	798.9	625.5	471.5
2.5°	3166.4	2726.6	2321.0	1969.2	1666.3	1409.7	1189.8	987.1	798.9	625.5	471.5
0°	3166.4	2726.6	2321.0	1969.2	1666.3	1409.7	1189.8	987.1	798.9	625.5	471.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.2	9.8	4.9	0.0
85°	26.9	17.1	9.8	0.0
82.5°	39.1	26.9	12.2	0.0
80°	51.3	34.2	17.1	0.0
77.5°	66.0	44.0	22.0	0.0
75°	78.2	51.3	26.9	0.0
72.5°	90.4	61.1	29.3	0.0
70°	102.6	68.4	34.2	0.0
67.5°	117.3	75.7	39.1	0.0
65°	129.5	85.5	41.5	0.0
62.5°	141.7	92.8	46.4	0.0
60°	153.9	100.2	48.9	0.0
57.5°	166.1	107.5	53.8	0.0
55°	178.4	117.3	58.6	0.0
52.5°	190.6	124.6	61.1	0.0
50°	202.8	131.9	63.5	0.0
47.5°	212.6	139.3	68.4	0.0
45°	224.8	146.6	70.9	0.0
42.5°	237.0	151.5	73.3	0.0
40°	246.8	158.8	75.7	0.0
37.5°	259.0	163.7	80.6	0.0
35°	268.8	171.0	83.1	0.0
32.5°	276.1	175.9	85.5	0.0
30°	285.9	180.8	88.0	0.0
27.5°	293.2	185.7	88.0	0.0
25°	300.5	190.6	90.4	0.0
22.5°	307.8	193.0	92.8	0.0
20°	315.2	197.9	95.3	0.0
17.5°	320.1	200.3	95.3	0.0
15°	324.9	202.8	100.2	0.0
12.5°	327.4	205.2	100.2	0.0
10°	332.3	210.1	100.2	0.0
7.5°	337.2	210.1	100.2	0.0
5°	337.2	210.1	100.2	0.0
2.5°	337.2	210.1	100.2	0.0
0°	337.2	210.1	100.2	0.0

(END OF REPORT)