

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: P623426

Luminaire Tested: **IFLD-L-SA7B-740-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623426
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

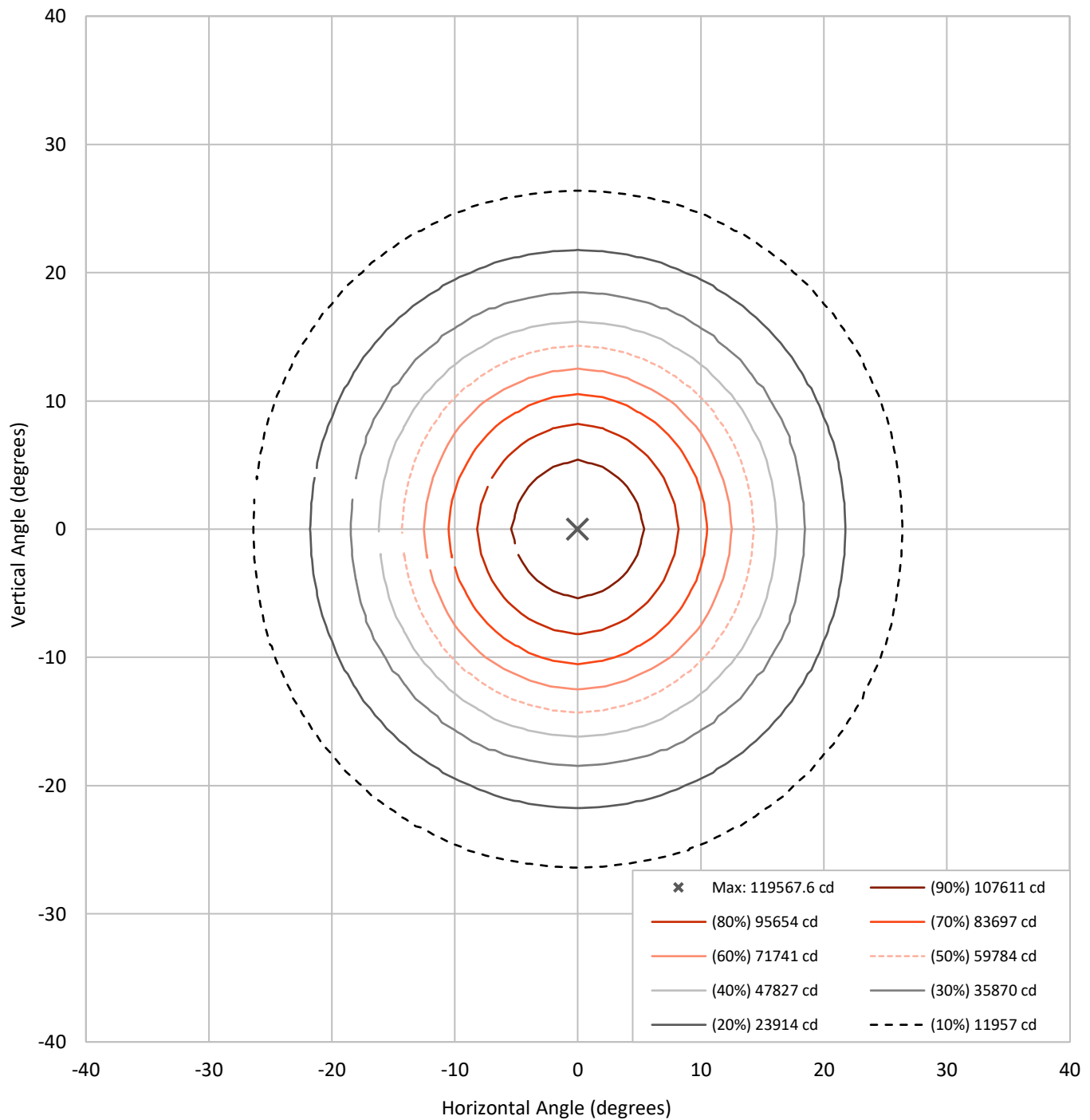
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	36977.2 lumens	Max Intensity:	119567.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	13342.1 lumens	Field Lumens:	22529.9 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 281
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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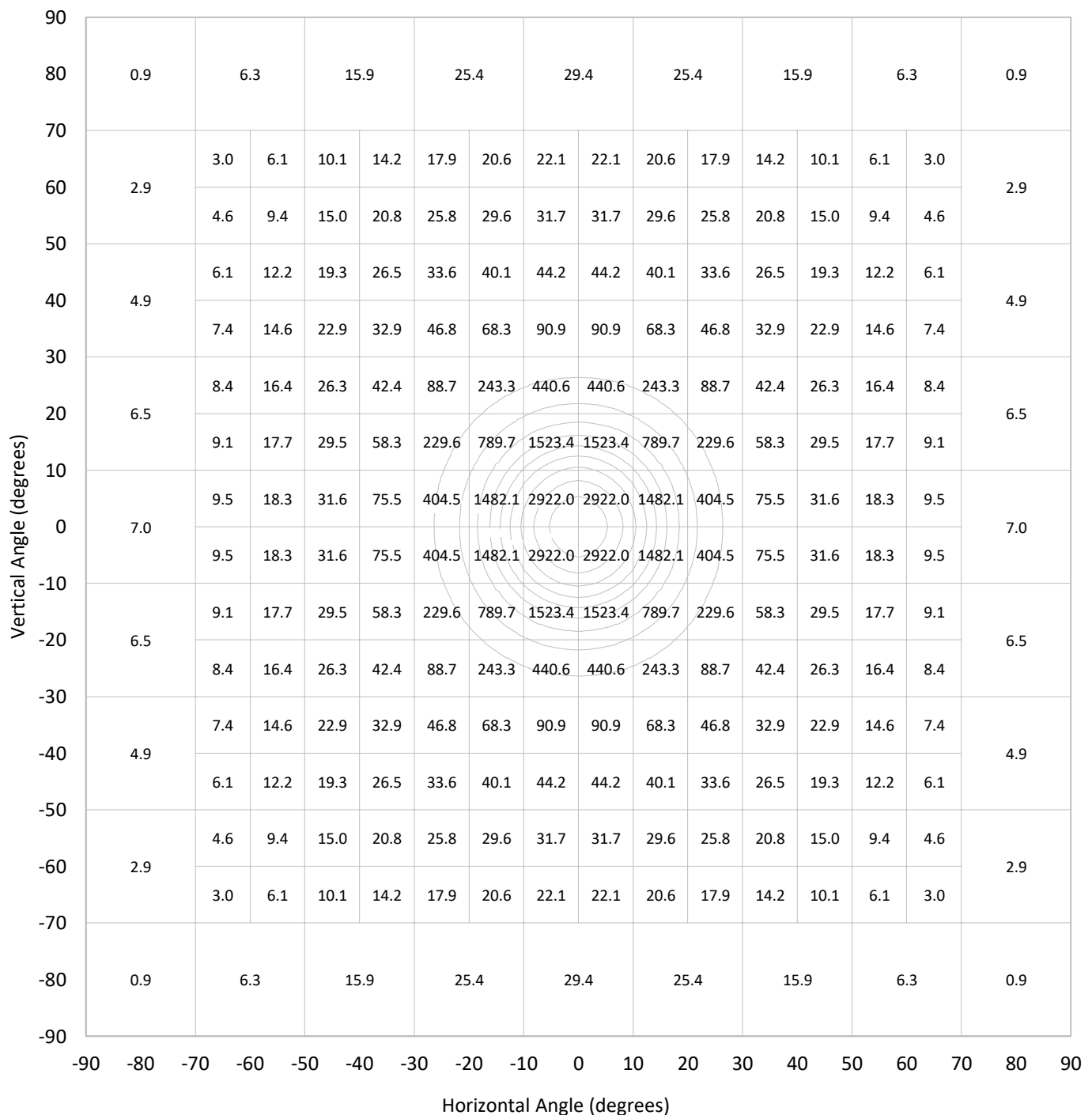
Iso-Candela Plot





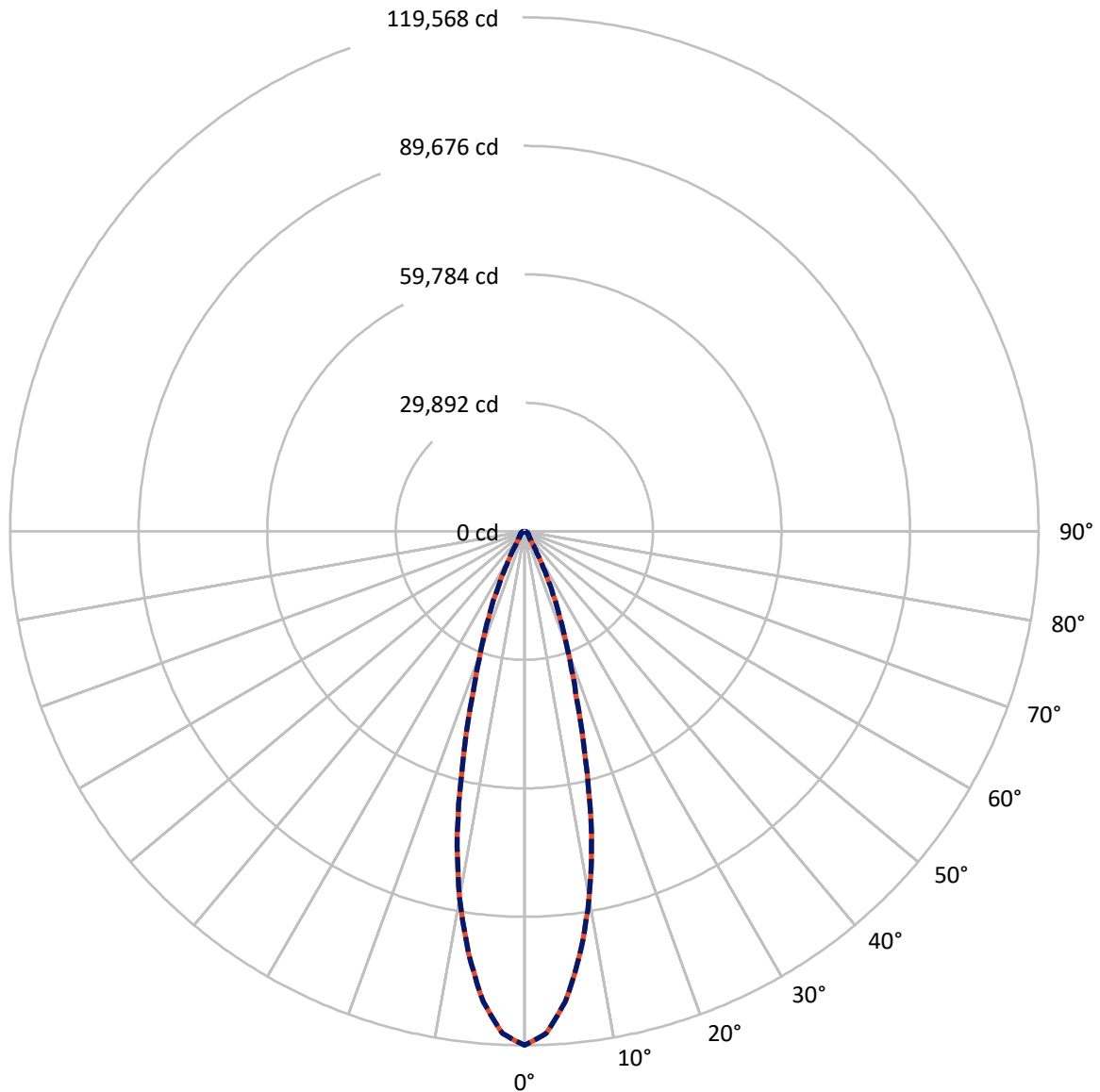
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Lumen Table



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Luminous Intensity Polar Plot

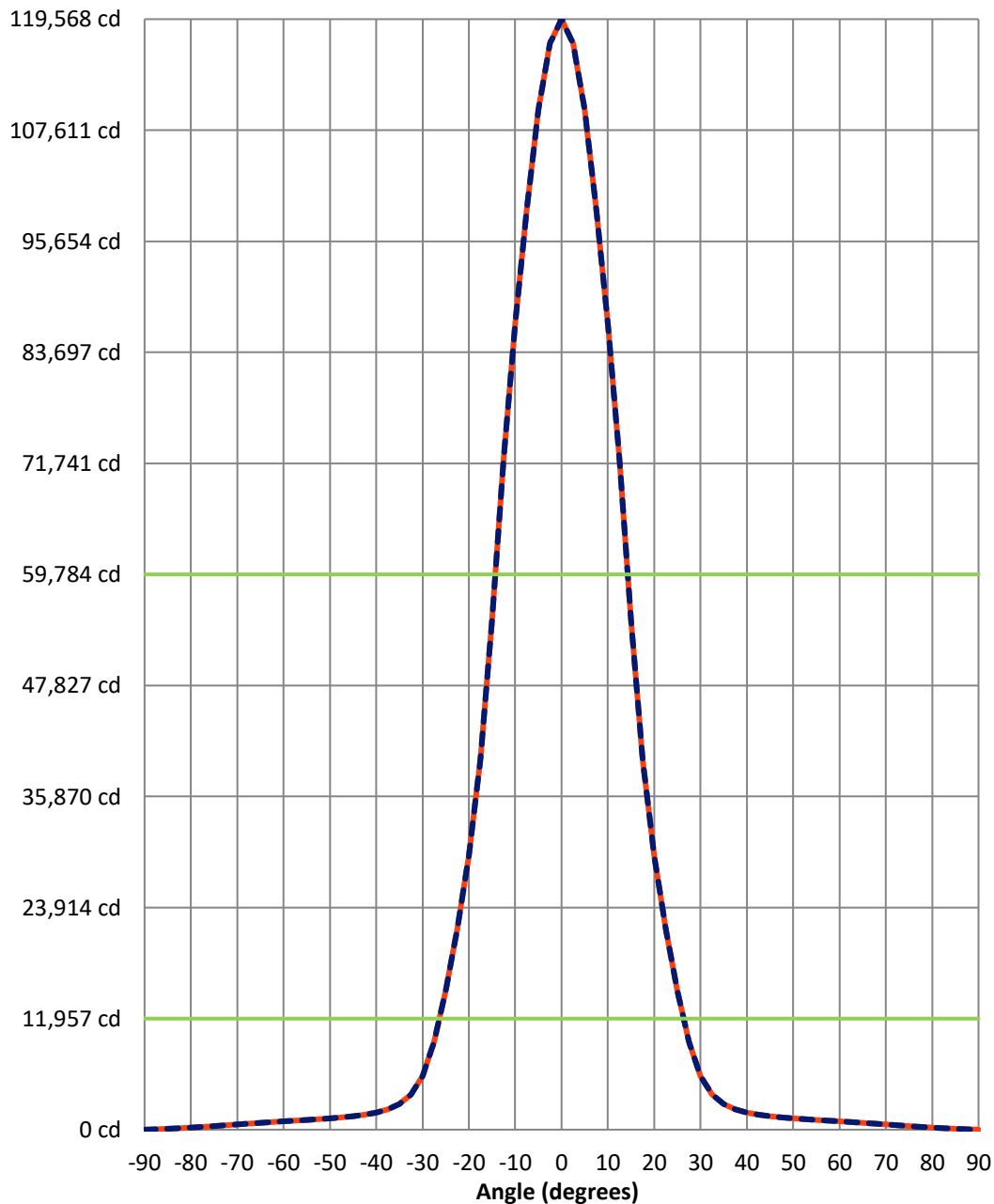


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 28.6°

V Angle: 28.6°

Lumens: 13342.1

Efficiency: 36.1%

Field:

H Angle: 52.7°

V Angle: 52.7°

Lumens: 22529.9

Efficiency: 60.9%

Spill:

Lumens: 14447.3

Efficiency: 39.1%

— 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°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	38.6	38.6	38.6	38.6
85°	96.4	96.4	96.4	96.4	96.4	92.5	92.5	92.5	88.7	88.7	84.8
82.5°	154.2	154.2	154.2	154.2	150.4	150.4	146.5	146.5	142.6	142.6	138.8
80°	219.8	219.8	219.8	219.8	215.9	212.0	212.0	208.2	204.3	200.5	196.6
77.5°	296.9	296.9	296.9	293.0	289.1	289.1	285.3	277.6	273.7	266.0	262.2
75°	381.7	381.7	381.7	377.8	374.0	370.1	362.4	358.5	350.8	343.1	331.6
72.5°	474.2	474.2	474.2	470.3	462.6	458.8	451.1	443.4	435.6	424.1	412.5
70°	562.9	562.9	562.9	555.2	551.3	543.6	535.9	528.2	516.6	505.0	493.5
67.5°	651.5	651.5	651.5	643.8	640.0	632.3	624.6	613.0	601.4	586.0	574.4
65°	732.5	732.5	728.6	724.8	720.9	713.2	701.7	694.0	682.4	667.0	651.5
62.5°	817.3	817.3	813.5	809.6	801.9	794.2	782.6	771.1	755.6	740.2	724.8
60°	902.1	902.1	898.3	894.4	886.7	875.1	863.6	852.0	836.6	817.3	798.0
57.5°	971.5	971.5	967.7	963.8	956.1	948.4	936.8	925.3	909.8	894.4	871.3
55°	1044.8	1044.8	1040.9	1033.2	1025.5	1017.8	1006.2	990.8	975.4	956.1	940.7
52.5°	1129.6	1129.6	1125.7	1118.0	1106.5	1094.9	1079.5	1060.2	1040.9	1021.6	998.5
50°	1214.4	1214.4	1206.7	1199.0	1191.3	1175.9	1160.4	1141.2	1118.0	1094.9	1067.9
47.5°	1318.5	1318.5	1310.8	1299.2	1283.8	1268.4	1245.3	1218.3	1195.1	1168.1	1137.3
45°	1445.7	1445.7	1434.2	1422.6	1403.3	1376.3	1349.3	1318.5	1283.8	1249.1	1210.6
42.5°	1611.5	1611.5	1596.1	1576.8	1549.8	1515.1	1472.7	1430.3	1387.9	1341.6	1295.4
40°	1835.1	1835.1	1812.0	1785.0	1742.6	1692.5	1630.8	1573.0	1515.1	1449.6	1391.8
37.5°	2185.9	2185.9	2147.4	2097.3	2027.9	1943.1	1839.0	1761.9	1673.2	1588.4	1511.3
35°	2760.4	2760.4	2691.0	2602.3	2478.9	2324.7	2159.0	2027.9	1881.4	1761.9	1650.1
32.5°	3782.0	3782.0	3643.2	3469.8	3234.6	2933.9	2656.3	2425.0	2185.9	2000.9	1823.5
30°	5759.8	5759.8	5462.9	5096.7	4591.6	3959.4	3485.2	3041.8	2637.0	2332.4	2074.1
27.5°	9472.4	9318.2	8855.6	8096.1	7055.2	5759.8	4934.8	3997.9	3357.9	2775.8	2417.3
25°	14954.6	14700.2	13936.8	12691.6	10995.3	9071.5	7386.7	5609.4	4487.5	3519.9	2852.9
22.5°	21616.6	21265.7	20228.7	18536.2	16242.3	13682.4	10956.7	8400.7	6126.0	4653.3	3519.9
20°	29504.5	29034.1	27642.4	25383.2	22345.2	19087.5	15448.1	12024.6	8743.8	6126.0	4487.5
17.5°	39917.6	39200.5	37091.6	33699.0	29504.5	25113.3	20564.1	16145.9	12024.6	8400.7	5609.4
15°	54887.6	53677.1	50137.9	44516.9	37986.1	31863.9	26061.7	20564.1	15448.1	10956.7	7386.7
12.5°	72194.0	70509.2	65632.3	58025.8	49151.0	39470.4	31863.9	25113.3	19087.5	13682.4	9071.5
10°	86774.6	84997.3	79958.5	72328.9	61075.3	49151.0	37986.1	29504.5	22345.2	16242.3	10995.3
7.5°	99092.3	97102.9	91670.8	83324.2	72328.9	58025.8	44516.9	33699.0	25383.2	18536.2	12691.6
5°	109790.7	107269.3	100946.6	91670.8	79958.5	65632.3	50137.9	37091.6	27642.4	20228.7	13936.8
2.5°	116938.3	113977.5	107269.3	97102.9	84997.3	70509.2	53677.1	39200.5	29034.1	21265.7	14700.2
0°	119567.6	116938.3	109790.7	99092.3	86774.6	72194.0	54887.6	39917.6	29504.5	21616.6	14954.6

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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°	38.6	38.6	34.7	34.7	34.7	30.8	30.8	30.8	27.0	27.0	27.0
85°	84.8	81.0	81.0	77.1	73.3	69.4	69.4	65.5	61.7	57.8	54.0
82.5°	134.9	131.1	127.2	123.4	119.5	111.8	107.9	104.1	96.4	92.5	88.7
80°	188.9	185.1	177.3	173.5	165.8	158.1	150.4	142.6	134.9	127.2	119.5
77.5°	254.4	242.9	235.2	227.5	215.9	208.2	196.6	188.9	177.3	165.8	154.2
75°	323.8	312.3	300.7	289.1	277.6	262.2	250.6	235.2	223.6	208.2	196.6
72.5°	400.9	385.5	370.1	354.7	339.3	323.8	308.4	289.1	273.7	254.4	235.2
70°	478.1	462.6	447.2	427.9	408.7	389.4	370.1	347.0	327.7	304.6	281.4
67.5°	559.0	539.7	520.5	501.2	481.9	458.8	431.8	408.7	381.7	354.7	331.6
65°	636.1	616.8	593.7	570.6	547.4	524.3	497.3	470.3	439.5	408.7	381.7
62.5°	705.5	686.2	667.0	640.0	616.8	589.9	562.9	528.2	497.3	466.5	431.8
60°	778.8	755.6	732.5	705.5	678.5	651.5	620.7	586.0	555.2	516.6	481.9
57.5°	848.2	825.0	798.0	771.1	740.2	709.4	678.5	643.8	609.1	570.6	532.0
55°	917.6	894.4	867.4	836.6	801.9	767.2	732.5	697.8	663.1	620.7	578.3
52.5°	975.4	952.3	925.3	902.1	863.6	828.9	790.3	747.9	709.4	667.0	624.6
50°	1037.1	1010.1	979.2	952.3	921.4	886.7	844.3	801.9	755.6	713.2	667.0
47.5°	1106.5	1071.8	1037.1	1002.4	971.5	933.0	898.3	852.0	805.8	755.6	709.4
45°	1175.9	1137.3	1098.8	1056.3	1017.8	979.2	940.7	902.1	852.0	801.9	747.9
42.5°	1249.1	1202.8	1160.4	1118.0	1071.8	1025.5	983.1	940.7	898.3	844.3	790.3
40°	1333.9	1280.0	1226.0	1175.9	1129.6	1075.6	1025.5	979.2	933.0	886.7	828.9
37.5°	1430.3	1364.8	1299.2	1237.5	1179.7	1129.6	1071.8	1017.8	971.5	921.4	863.6
35°	1553.7	1457.3	1380.2	1303.1	1237.5	1175.9	1118.0	1056.3	1002.4	952.3	902.1
32.5°	1692.5	1573.0	1468.9	1380.2	1299.2	1226.0	1160.4	1098.8	1037.1	979.2	925.3
30°	1862.1	1707.9	1573.0	1457.3	1364.8	1280.0	1202.8	1137.3	1071.8	1010.1	952.3
27.5°	2101.1	1862.1	1692.5	1553.7	1430.3	1333.9	1249.1	1175.9	1106.5	1037.1	975.4
25°	2417.3	2074.1	1823.5	1650.1	1511.3	1391.8	1295.4	1210.6	1137.3	1067.9	998.5
22.5°	2775.8	2332.4	2000.9	1761.9	1588.4	1449.6	1341.6	1249.1	1168.1	1094.9	1021.6
20°	3357.9	2637.0	2185.9	1881.4	1673.2	1515.1	1387.9	1283.8	1195.1	1118.0	1040.9
17.5°	3997.9	3041.8	2425.0	2027.9	1761.9	1573.0	1430.3	1318.5	1218.3	1141.2	1060.2
15°	4934.8	3485.2	2656.3	2159.0	1839.0	1630.8	1472.7	1349.3	1245.3	1160.4	1079.5
12.5°	5759.8	3959.4	2933.9	2324.7	1943.1	1692.5	1515.1	1376.3	1268.4	1175.9	1094.9
10°	7055.2	4591.6	3234.6	2478.9	2027.9	1742.6	1549.8	1403.3	1283.8	1191.3	1106.5
7.5°	8096.1	5096.7	3469.8	2602.3	2097.3	1785.0	1576.8	1422.6	1299.2	1199.0	1118.0
5°	8855.6	5462.9	3643.2	2691.0	2147.4	1812.0	1596.1	1434.2	1310.8	1206.7	1125.7
2.5°	9318.2	5759.8	3782.0	2760.4	2185.9	1835.1	1611.5	1445.7	1318.5	1214.4	1129.6
0°	9472.4	5759.8	3782.0	2760.4	2185.9	1835.1	1611.5	1445.7	1318.5	1214.4	1129.6

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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°	23.1	23.1	19.3	19.3	19.3	15.4	15.4	11.6	11.6	7.7	7.7
85°	50.1	46.3	42.4	38.6	34.7	30.8	30.8	27.0	23.1	19.3	15.4
82.5°	81.0	77.1	69.4	61.7	57.8	50.1	42.4	38.6	34.7	27.0	23.1
80°	111.8	104.1	96.4	88.7	81.0	69.4	61.7	54.0	42.4	34.7	30.8
77.5°	146.5	134.9	123.4	111.8	100.2	92.5	81.0	69.4	57.8	46.3	34.7
75°	181.2	165.8	154.2	138.8	127.2	111.8	96.4	84.8	73.3	57.8	42.4
72.5°	219.8	200.5	185.1	165.8	150.4	134.9	115.7	100.2	84.8	69.4	54.0
70°	262.2	239.0	215.9	196.6	177.3	154.2	134.9	115.7	96.4	81.0	61.7
67.5°	304.6	277.6	250.6	223.6	200.5	177.3	154.2	134.9	111.8	92.5	69.4
65°	347.0	316.1	289.1	258.3	227.5	200.5	177.3	150.4	127.2	100.2	81.0
62.5°	393.2	358.5	323.8	289.1	258.3	223.6	196.6	165.8	138.8	111.8	88.7
60°	443.4	404.8	362.4	323.8	289.1	250.6	215.9	185.1	154.2	123.4	96.4
57.5°	489.6	447.2	404.8	358.5	316.1	277.6	239.0	200.5	165.8	134.9	104.1
55°	535.9	489.6	443.4	393.2	347.0	304.6	262.2	219.8	181.2	146.5	111.8
52.5°	578.3	532.0	481.9	431.8	381.7	331.6	281.4	235.2	196.6	154.2	119.5
50°	620.7	570.6	516.6	466.5	408.7	354.7	304.6	254.4	208.2	165.8	127.2
47.5°	663.1	609.1	555.2	497.3	439.5	381.7	327.7	273.7	223.6	177.3	134.9
45°	697.8	643.8	586.0	528.2	470.3	408.7	347.0	289.1	235.2	188.9	142.6
42.5°	732.5	678.5	620.7	562.9	497.3	431.8	370.1	308.4	250.6	196.6	150.4
40°	767.2	709.4	651.5	589.9	524.3	458.8	389.4	323.8	262.2	208.2	158.1
37.5°	801.9	740.2	678.5	616.8	547.4	481.9	408.7	339.3	277.6	215.9	165.8
35°	836.6	771.1	705.5	640.0	570.6	501.2	427.9	354.7	289.1	227.5	173.5
32.5°	867.4	798.0	732.5	667.0	593.7	520.5	447.2	370.1	300.7	235.2	177.3
30°	894.4	825.0	755.6	686.2	616.8	539.7	462.6	385.5	312.3	242.9	185.1
27.5°	917.6	848.2	778.8	705.5	636.1	559.0	478.1	400.9	323.8	254.4	188.9
25°	940.7	871.3	798.0	724.8	651.5	574.4	493.5	412.5	331.6	262.2	196.6
22.5°	956.1	894.4	817.3	740.2	667.0	586.0	505.0	424.1	343.1	266.0	200.5
20°	975.4	909.8	836.6	755.6	682.4	601.4	516.6	435.6	350.8	273.7	204.3
17.5°	990.8	925.3	852.0	771.1	694.0	613.0	528.2	443.4	358.5	277.6	208.2
15°	1006.2	936.8	863.6	782.6	701.7	624.6	535.9	451.1	362.4	285.3	212.0
12.5°	1017.8	948.4	875.1	794.2	713.2	632.3	543.6	458.8	370.1	289.1	212.0
10°	1025.5	956.1	886.7	801.9	720.9	640.0	551.3	462.6	374.0	289.1	215.9
7.5°	1033.2	963.8	894.4	809.6	724.8	643.8	555.2	470.3	377.8	293.0	219.8
5°	1040.9	967.7	898.3	813.5	728.6	651.5	562.9	474.2	381.7	296.9	219.8
2.5°	1044.8	971.5	902.1	817.3	732.5	651.5	562.9	474.2	381.7	296.9	219.8
0°	1044.8	971.5	902.1	817.3	732.5	651.5	562.9	474.2	381.7	296.9	219.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	0.0	0.0
85°	11.6	7.7	3.9	0.0
82.5°	15.4	11.6	3.9	0.0
80°	23.1	15.4	7.7	0.0
77.5°	27.0	19.3	7.7	0.0
75°	34.7	23.1	11.6	0.0
72.5°	38.6	27.0	11.6	0.0
70°	42.4	30.8	15.4	0.0
67.5°	50.1	30.8	15.4	0.0
65°	57.8	34.7	19.3	0.0
62.5°	61.7	38.6	19.3	0.0
60°	69.4	42.4	19.3	0.0
57.5°	77.1	46.3	23.1	0.0
55°	81.0	50.1	23.1	0.0
52.5°	88.7	54.0	27.0	0.0
50°	92.5	57.8	27.0	0.0
47.5°	96.4	61.7	27.0	0.0
45°	104.1	65.5	30.8	0.0
42.5°	107.9	69.4	30.8	0.0
40°	111.8	69.4	30.8	0.0
37.5°	119.5	73.3	34.7	0.0
35°	123.4	77.1	34.7	0.0
32.5°	127.2	81.0	34.7	0.0
30°	131.1	81.0	38.6	0.0
27.5°	134.9	84.8	38.6	0.0
25°	138.8	84.8	38.6	0.0
22.5°	142.6	88.7	38.6	0.0
20°	142.6	88.7	38.6	0.0
17.5°	146.5	92.5	38.6	0.0
15°	146.5	92.5	42.4	0.0
12.5°	150.4	92.5	42.4	0.0
10°	150.4	96.4	42.4	0.0
7.5°	154.2	96.4	42.4	0.0
5°	154.2	96.4	42.4	0.0
2.5°	154.2	96.4	42.4	0.0
0°	154.2	96.4	42.4	0.0

(END OF REPORT)