

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: P623630

Luminaire Tested: **IFLD-L-SA7C-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623630
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	42090.4 lumens	Max Intensity:	51436.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	114.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	20920 lumens	Field Lumens:	27207.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

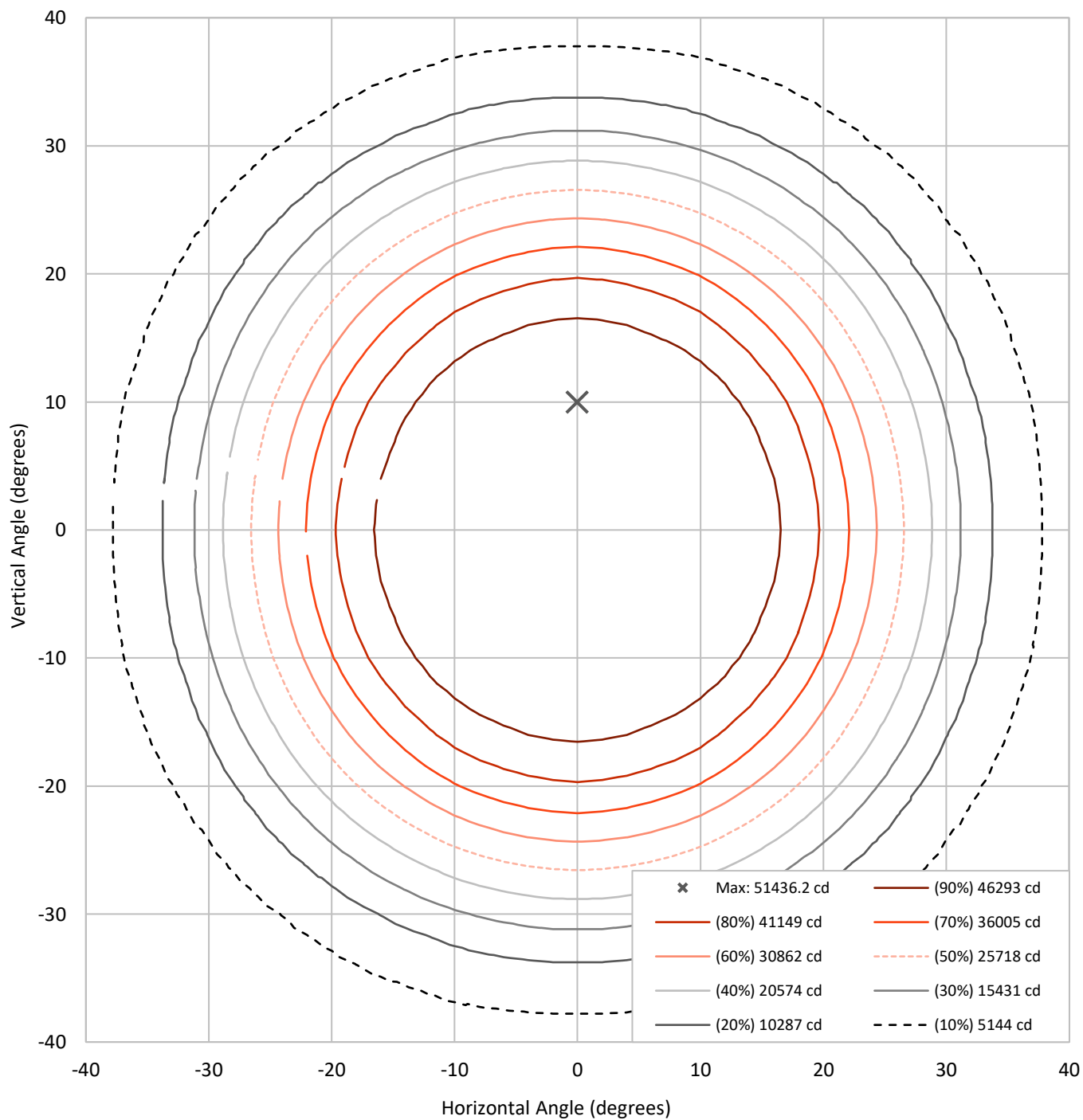
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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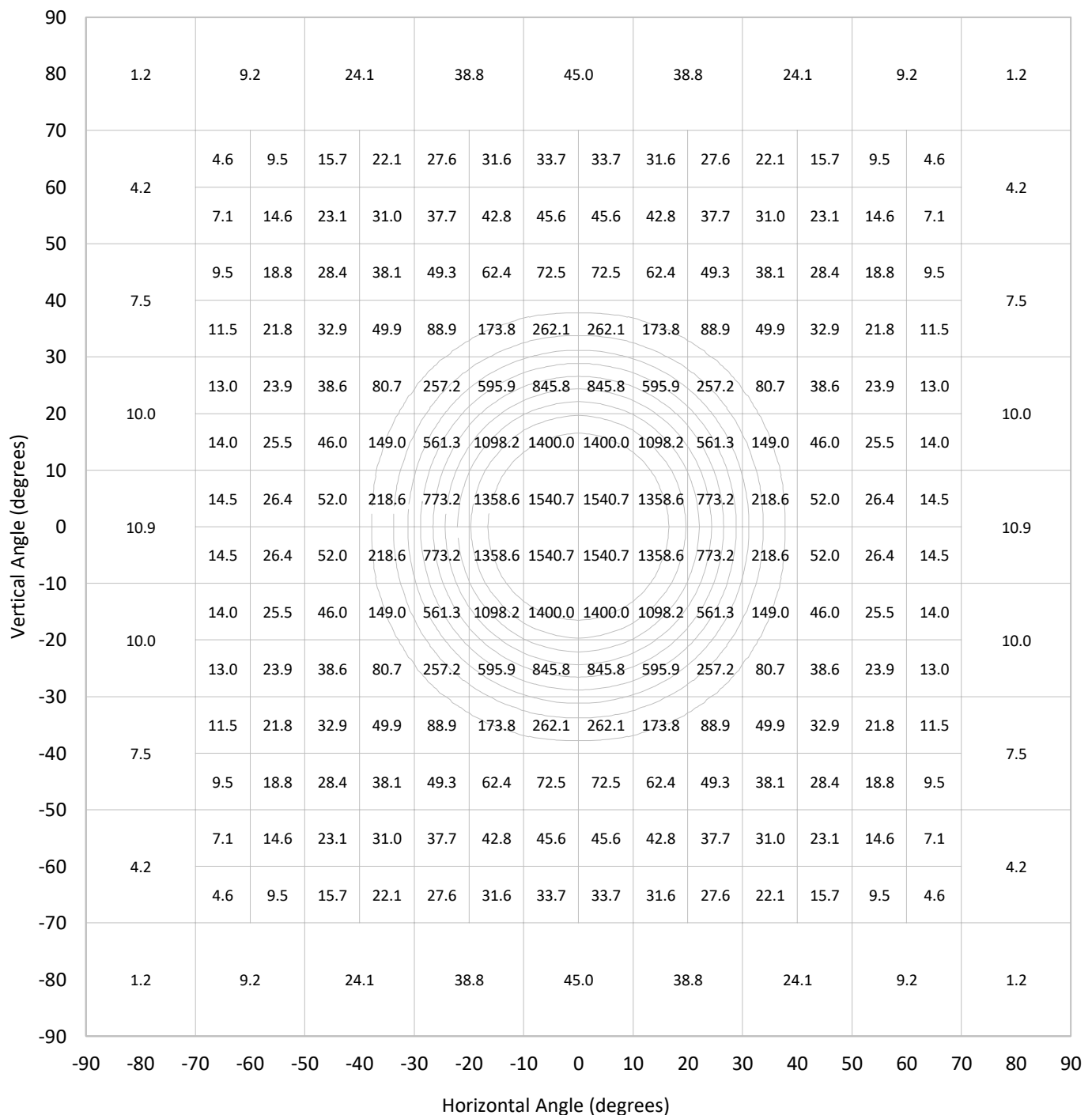
Iso-Candela Plot





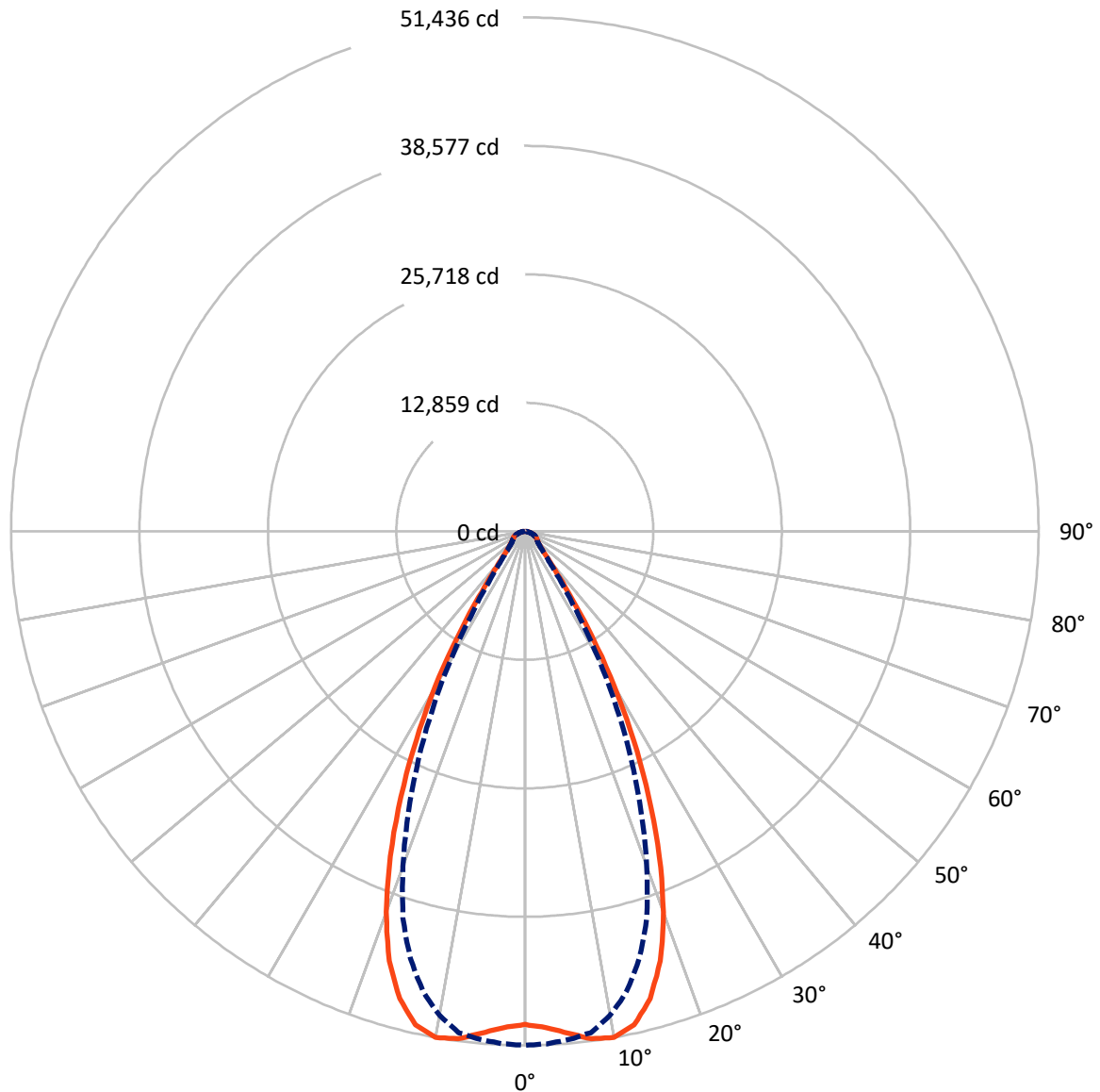
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Lumen Table



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Luminous Intensity Polar Plot

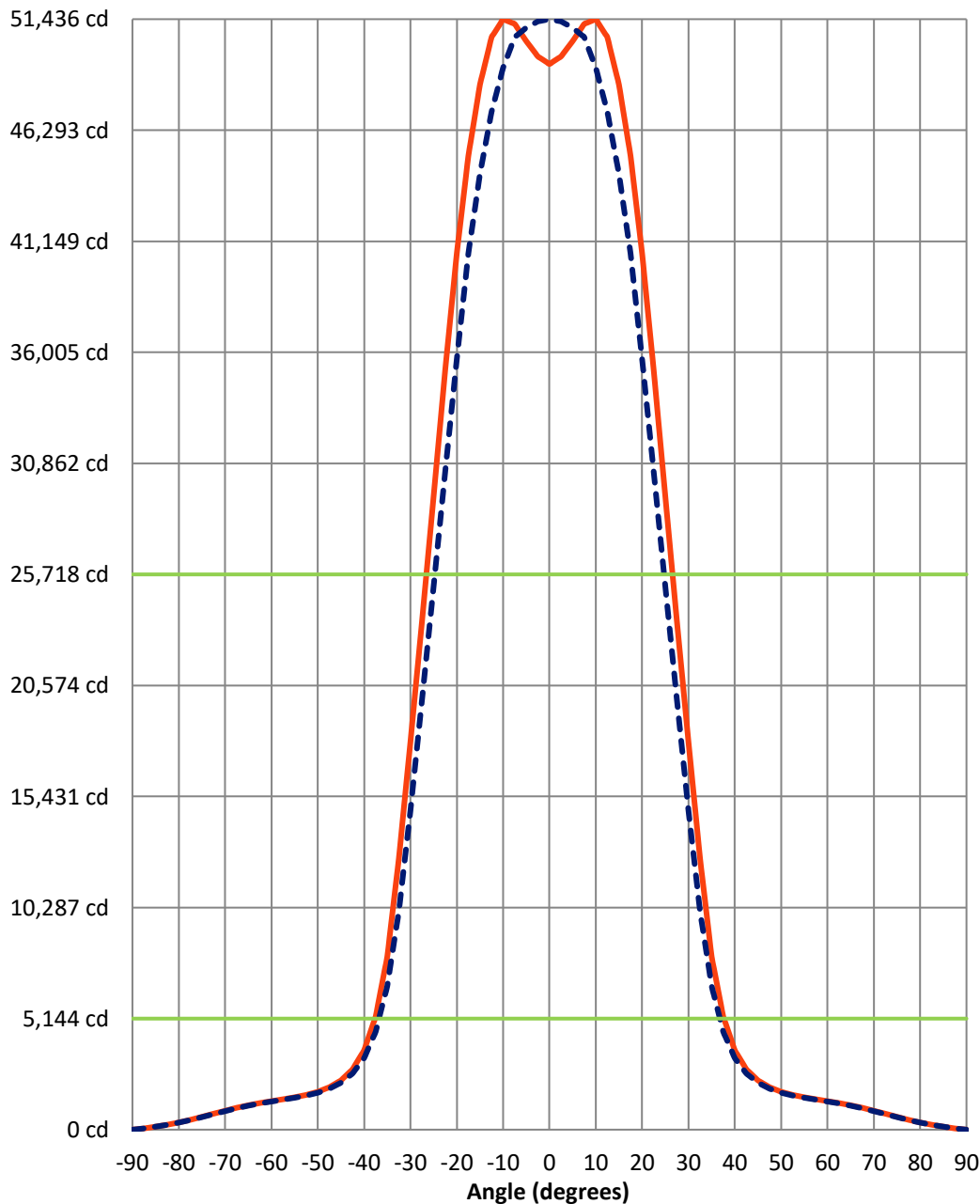


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 20920
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 27207.1
Efficiency: 64.6%

Spill:

Lumens: 14883.3
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	52.5	52.5	52.5	52.5
85°	139.9	139.9	139.9	139.9	139.9	135.5	135.5	131.2	131.2	126.8	122.4
82.5°	227.4	227.4	227.4	227.4	223.0	223.0	218.6	214.2	209.9	205.5	201.1
80°	332.3	332.3	332.3	332.3	327.9	323.6	319.2	314.8	306.1	301.7	292.9
77.5°	454.7	454.7	454.7	450.4	446.0	441.6	432.9	424.1	415.4	406.6	397.9
75°	594.6	594.6	594.6	585.9	581.5	572.8	564.0	555.3	542.2	529.1	515.9
72.5°	738.9	738.9	738.9	730.2	721.4	712.7	703.9	690.8	677.7	660.2	642.7
70°	874.5	874.5	874.5	865.7	857.0	848.2	835.1	822.0	804.5	787.0	769.5
67.5°	1014.4	1014.4	1014.4	1001.3	992.5	983.8	970.7	953.2	935.7	913.8	892.0
65°	1128.1	1128.1	1123.7	1119.3	1110.6	1097.5	1088.7	1071.2	1053.7	1036.2	1014.4
62.5°	1233.0	1233.0	1228.6	1224.3	1215.5	1202.4	1189.3	1176.2	1158.7	1136.8	1114.9
60°	1320.4	1320.4	1316.1	1311.7	1303.0	1294.2	1281.1	1268.0	1250.5	1233.0	1211.1
57.5°	1407.9	1407.9	1403.5	1399.1	1390.4	1377.3	1364.2	1351.1	1333.6	1311.7	1289.8
55°	1499.7	1499.7	1495.3	1486.6	1477.9	1464.7	1451.6	1434.1	1412.3	1390.4	1368.5
52.5°	1609.0	1609.0	1600.3	1591.5	1578.4	1565.3	1543.4	1521.6	1495.3	1469.1	1442.9
50°	1753.3	1753.3	1744.6	1731.4	1709.6	1687.7	1661.5	1626.5	1595.9	1560.9	1525.9
47.5°	1967.6	1967.6	1950.1	1928.2	1897.6	1862.6	1814.5	1762.1	1718.3	1674.6	1622.1
45°	2282.4	2282.4	2256.1	2221.2	2173.1	2111.8	2041.9	1967.6	1893.2	1818.9	1744.6
42.5°	2793.9	2793.9	2745.8	2684.6	2601.5	2496.6	2365.4	2243.0	2138.1	2020.0	1919.5
40°	3677.1	3677.1	3585.3	3471.6	3314.2	3113.1	2872.6	2680.2	2496.6	2291.1	2151.2
37.5°	5246.8	5246.8	5067.5	4848.9	4542.9	4158.1	3694.6	3384.2	3043.2	2719.6	2483.5
35°	8018.9	8018.9	7673.5	7249.3	6659.1	5915.8	5124.4	4538.5	3887.0	3388.6	2947.0
32.5°	12566.1	12566.1	11945.2	11180.1	10126.3	8792.8	7524.8	6409.9	5246.8	4420.4	3624.7
30°	17970.3	17970.3	17157.1	16155.8	14782.9	13051.4	11245.7	9265.0	7428.6	5955.1	4752.7
27.5°	23558.2	23326.5	22626.9	21485.7	19920.4	17970.3	15718.6	13160.8	10677.3	8080.1	6361.8
25°	29338.4	29067.3	28267.2	26955.5	25162.8	22954.8	20418.8	17559.3	14494.3	11398.7	8425.5
22.5°	35179.9	34873.8	33964.4	32482.1	30470.9	27996.1	25123.5	21944.8	18521.2	14944.7	11398.7
20°	40579.7	40256.2	39303.0	37759.6	35678.3	32963.1	29771.3	26247.2	22460.7	18521.2	14494.3
17.5°	45100.7	44790.3	43872.1	42398.6	40579.7	37575.9	34257.3	30383.4	26247.2	21944.8	17559.3
15°	48401.8	48135.1	47352.5	46115.1	44261.2	41602.8	38223.0	34257.3	29771.3	25123.5	20418.8
12.5°	50592.4	50378.1	49761.6	48799.7	47138.2	44908.3	41602.8	37575.9	32963.1	27996.1	22954.8
10°	51436.2	51331.3	51042.7	50601.1	49184.5	47138.2	44261.2	40579.7	35678.3	30470.9	25162.8
7.5°	51213.3	51248.2	51348.8	51235.1	50601.1	48799.7	46115.1	42398.6	37759.6	32482.1	26955.5
5°	50417.5	50605.5	51073.3	51348.8	51042.7	49761.6	47352.5	43872.1	39303.0	33964.4	28267.2
2.5°	49709.2	50002.1	50605.5	51248.2	51331.3	50378.1	48135.1	44790.3	40256.2	34873.8	29067.3
0°	49359.4	49709.2	50417.5	51213.3	51436.2	50592.4	48401.8	45100.7	40579.7	35179.9	29338.4

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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°	52.5	48.1	48.1	48.1	43.7	43.7	43.7	39.4	39.4	35.0	35.0
85°	122.4	118.1	113.7	109.3	104.9	100.6	96.2	91.8	87.4	78.7	74.3
82.5°	196.8	192.4	188.0	179.3	174.9	166.1	157.4	148.7	139.9	135.5	126.8
80°	284.2	275.5	266.7	258.0	244.9	231.7	223.0	209.9	201.1	188.0	179.3
77.5°	384.8	371.6	358.5	341.0	327.9	314.8	297.3	284.2	266.7	249.2	231.7
75°	498.4	481.0	459.1	441.6	424.1	402.3	380.4	358.5	336.7	314.8	292.9
72.5°	620.9	599.0	577.1	555.3	529.1	498.4	472.2	441.6	415.4	389.1	358.5
70°	747.7	721.4	695.2	669.0	638.4	603.4	572.8	537.8	502.8	467.8	432.9
67.5°	865.7	839.5	808.9	782.6	747.7	712.7	673.3	634.0	594.6	550.9	507.2
65°	988.1	957.5	922.6	887.6	852.6	813.3	773.9	734.6	686.5	638.4	594.6
62.5°	1088.7	1062.5	1031.9	996.9	957.5	913.8	874.5	822.0	773.9	725.8	669.0
60°	1184.9	1154.3	1128.1	1088.7	1053.7	1014.4	966.3	913.8	861.4	804.5	752.0
57.5°	1268.0	1241.7	1211.1	1176.2	1136.8	1097.5	1053.7	1005.6	944.4	887.6	826.4
55°	1342.3	1311.7	1281.1	1250.5	1215.5	1171.8	1128.1	1080.0	1027.5	966.3	900.7
52.5°	1416.6	1386.0	1351.1	1320.4	1281.1	1241.7	1198.0	1149.9	1097.5	1040.6	970.7
50°	1491.0	1456.0	1421.0	1381.7	1342.3	1303.0	1259.2	1215.5	1158.7	1101.8	1040.6
47.5°	1578.4	1534.7	1491.0	1447.2	1407.9	1359.8	1316.1	1268.0	1219.9	1158.7	1097.5
45°	1687.7	1622.1	1569.7	1517.2	1469.1	1421.0	1368.5	1320.4	1268.0	1215.5	1149.9
42.5°	1823.3	1735.8	1665.9	1595.9	1534.7	1477.9	1425.4	1368.5	1316.1	1259.2	1198.0
40°	2006.9	1888.9	1775.2	1687.7	1609.0	1539.1	1477.9	1421.0	1359.8	1303.0	1241.7
37.5°	2247.4	2081.2	1923.8	1797.0	1696.5	1609.0	1534.7	1469.1	1407.9	1342.3	1281.1
35°	2610.3	2321.7	2120.6	1936.9	1797.0	1687.7	1595.9	1517.2	1447.2	1381.7	1320.4
32.5°	3121.9	2675.9	2352.3	2120.6	1923.8	1775.2	1665.9	1569.7	1491.0	1421.0	1351.1
30°	3795.2	3178.7	2675.9	2321.7	2081.2	1888.9	1735.8	1622.1	1534.7	1456.0	1386.0
27.5°	4862.0	3795.2	3121.9	2610.3	2247.4	2006.9	1823.3	1687.7	1578.4	1491.0	1416.6
25°	6361.8	4752.7	3624.7	2947.0	2483.5	2151.2	1919.5	1744.6	1622.1	1525.9	1442.9
22.5°	8080.1	5955.1	4420.4	3388.6	2719.6	2291.1	2020.0	1818.9	1674.6	1560.9	1469.1
20°	10677.3	7428.6	5246.8	3887.0	3043.2	2496.6	2138.1	1893.2	1718.3	1595.9	1495.3
17.5°	13160.8	9265.0	6409.9	4538.5	3384.2	2680.2	2243.0	1967.6	1762.1	1626.5	1521.6
15°	15718.6	11245.7	7524.8	5124.4	3694.6	2872.6	2365.4	2041.9	1814.5	1661.5	1543.4
12.5°	17970.3	13051.4	8792.8	5915.8	4158.1	3113.1	2496.6	2111.8	1862.6	1687.7	1565.3
10°	19920.4	14782.9	10126.3	6659.1	4542.9	3314.2	2601.5	2173.1	1897.6	1709.6	1578.4
7.5°	21485.7	16155.8	11180.1	7249.3	4848.9	3471.6	2684.6	2221.2	1928.2	1731.4	1591.5
5°	22626.9	17157.1	11945.2	7673.5	5067.5	3585.3	2745.8	2256.1	1950.1	1744.6	1600.3
2.5°	23326.5	17970.3	12566.1	8018.9	5246.8	3677.1	2793.9	2282.4	1967.6	1753.3	1609.0
0°	23558.2	17970.3	12566.1	8018.9	5246.8	3677.1	2793.9	2282.4	1967.6	1753.3	1609.0

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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°	30.6	30.6	26.2	26.2	21.9	21.9	17.5	17.5	13.1	13.1	8.7
85°	70.0	61.2	56.8	52.5	48.1	43.7	39.4	35.0	30.6	26.2	21.9
82.5°	118.1	109.3	96.2	87.4	78.7	70.0	56.8	52.5	43.7	35.0	30.6
80°	166.1	153.0	139.9	126.8	113.7	100.6	87.4	74.3	61.2	48.1	39.4
77.5°	214.2	196.8	183.6	166.1	148.7	131.2	113.7	96.2	78.7	61.2	48.1
75°	271.1	249.2	227.4	205.5	183.6	161.8	144.3	122.4	100.6	78.7	61.2
72.5°	332.3	301.7	275.5	249.2	218.6	196.8	170.5	148.7	122.4	96.2	74.3
70°	397.9	362.9	327.9	292.9	262.3	227.4	201.1	170.5	144.3	113.7	87.4
67.5°	463.5	424.1	384.8	341.0	301.7	266.7	227.4	196.8	161.8	131.2	100.6
65°	542.2	489.7	441.6	393.5	345.4	301.7	262.3	218.6	183.6	148.7	113.7
62.5°	616.5	559.7	502.8	446.0	393.5	341.0	292.9	249.2	205.5	166.1	126.8
60°	690.8	629.6	564.0	502.8	441.6	384.8	327.9	275.5	227.4	183.6	139.9
57.5°	765.2	695.2	629.6	559.7	489.7	424.1	362.9	301.7	249.2	196.8	153.0
55°	830.7	765.2	690.8	616.5	542.2	463.5	397.9	332.3	271.1	214.2	166.1
52.5°	900.7	826.4	752.0	669.0	594.6	507.2	432.9	358.5	292.9	231.7	179.3
50°	966.3	887.6	804.5	725.8	638.4	550.9	467.8	389.1	314.8	249.2	188.0
47.5°	1027.5	944.4	861.4	773.9	686.5	594.6	502.8	415.4	336.7	266.7	201.1
45°	1080.0	1005.6	913.8	822.0	734.6	634.0	537.8	441.6	358.5	284.2	209.9
42.5°	1128.1	1053.7	966.3	874.5	773.9	673.3	572.8	472.2	380.4	297.3	223.0
40°	1171.8	1097.5	1014.4	913.8	813.3	712.7	603.4	498.4	402.3	314.8	231.7
37.5°	1215.5	1136.8	1053.7	957.5	852.6	747.7	638.4	529.1	424.1	327.9	244.9
35°	1250.5	1176.2	1088.7	996.9	887.6	782.6	669.0	555.3	441.6	341.0	258.0
32.5°	1281.1	1211.1	1128.1	1031.9	922.6	808.9	695.2	577.1	459.1	358.5	266.7
30°	1311.7	1241.7	1154.3	1062.5	957.5	839.5	721.4	599.0	481.0	371.6	275.5
27.5°	1342.3	1268.0	1184.9	1088.7	988.1	865.7	747.7	620.9	498.4	384.8	284.2
25°	1368.5	1289.8	1211.1	1114.9	1014.4	892.0	769.5	642.7	515.9	397.9	292.9
22.5°	1390.4	1311.7	1233.0	1136.8	1036.2	913.8	787.0	660.2	529.1	406.6	301.7
20°	1412.3	1333.6	1250.5	1158.7	1053.7	935.7	804.5	677.7	542.2	415.4	306.1
17.5°	1434.1	1351.1	1268.0	1176.2	1071.2	953.2	822.0	690.8	555.3	424.1	314.8
15°	1451.6	1364.2	1281.1	1189.3	1088.7	970.7	835.1	703.9	564.0	432.9	319.2
12.5°	1464.7	1377.3	1294.2	1202.4	1097.5	983.8	848.2	712.7	572.8	441.6	323.6
10°	1477.9	1390.4	1303.0	1215.5	1110.6	992.5	857.0	721.4	581.5	446.0	327.9
7.5°	1486.6	1399.1	1311.7	1224.3	1119.3	1001.3	865.7	730.2	585.9	450.4	332.3
5°	1495.3	1403.5	1316.1	1228.6	1123.7	1014.4	874.5	738.9	594.6	454.7	332.3
2.5°	1499.7	1407.9	1320.4	1233.0	1128.1	1014.4	874.5	738.9	594.6	454.7	332.3
0°	1499.7	1407.9	1320.4	1233.0	1128.1	1014.4	874.5	738.9	594.6	454.7	332.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.7	4.4	4.4	0.0
85°	13.1	8.7	4.4	0.0
82.5°	21.9	13.1	8.7	0.0
80°	30.6	21.9	8.7	0.0
77.5°	35.0	26.2	13.1	0.0
75°	43.7	30.6	13.1	0.0
72.5°	52.5	35.0	17.5	0.0
70°	56.8	39.4	17.5	0.0
67.5°	70.0	43.7	21.9	0.0
65°	78.7	48.1	21.9	0.0
62.5°	87.4	52.5	26.2	0.0
60°	96.2	56.8	26.2	0.0
57.5°	109.3	61.2	30.6	0.0
55°	118.1	70.0	30.6	0.0
52.5°	126.8	74.3	35.0	0.0
50°	135.5	78.7	35.0	0.0
47.5°	139.9	87.4	39.4	0.0
45°	148.7	91.8	39.4	0.0
42.5°	157.4	96.2	43.7	0.0
40°	166.1	100.6	43.7	0.0
37.5°	174.9	104.9	43.7	0.0
35°	179.3	109.3	48.1	0.0
32.5°	188.0	113.7	48.1	0.0
30°	192.4	118.1	48.1	0.0
27.5°	196.8	122.4	52.5	0.0
25°	201.1	122.4	52.5	0.0
22.5°	205.5	126.8	52.5	0.0
20°	209.9	131.2	52.5	0.0
17.5°	214.2	131.2	52.5	0.0
15°	218.6	135.5	56.8	0.0
12.5°	223.0	135.5	56.8	0.0
10°	223.0	139.9	56.8	0.0
7.5°	227.4	139.9	56.8	0.0
5°	227.4	139.9	56.8	0.0
2.5°	227.4	139.9	56.8	0.0
0°	227.4	139.9	56.8	0.0

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