

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: P623973

Luminaire Tested: **IFLD-M-SA4C-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623973
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30193.4 lumens	Max Intensity:	16769.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.4 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:	13064.4 lumens	Field Lumens:	21392.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

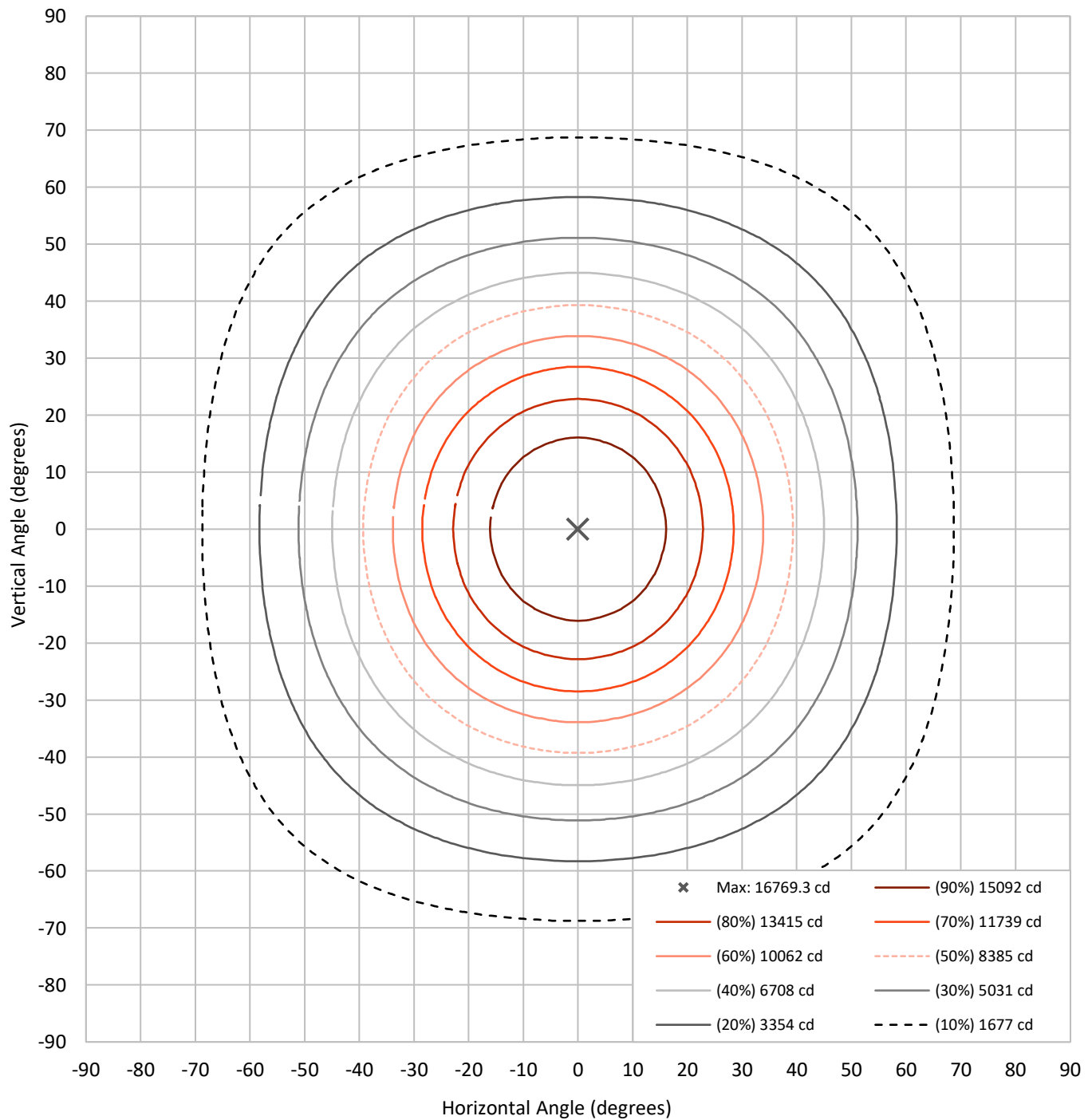
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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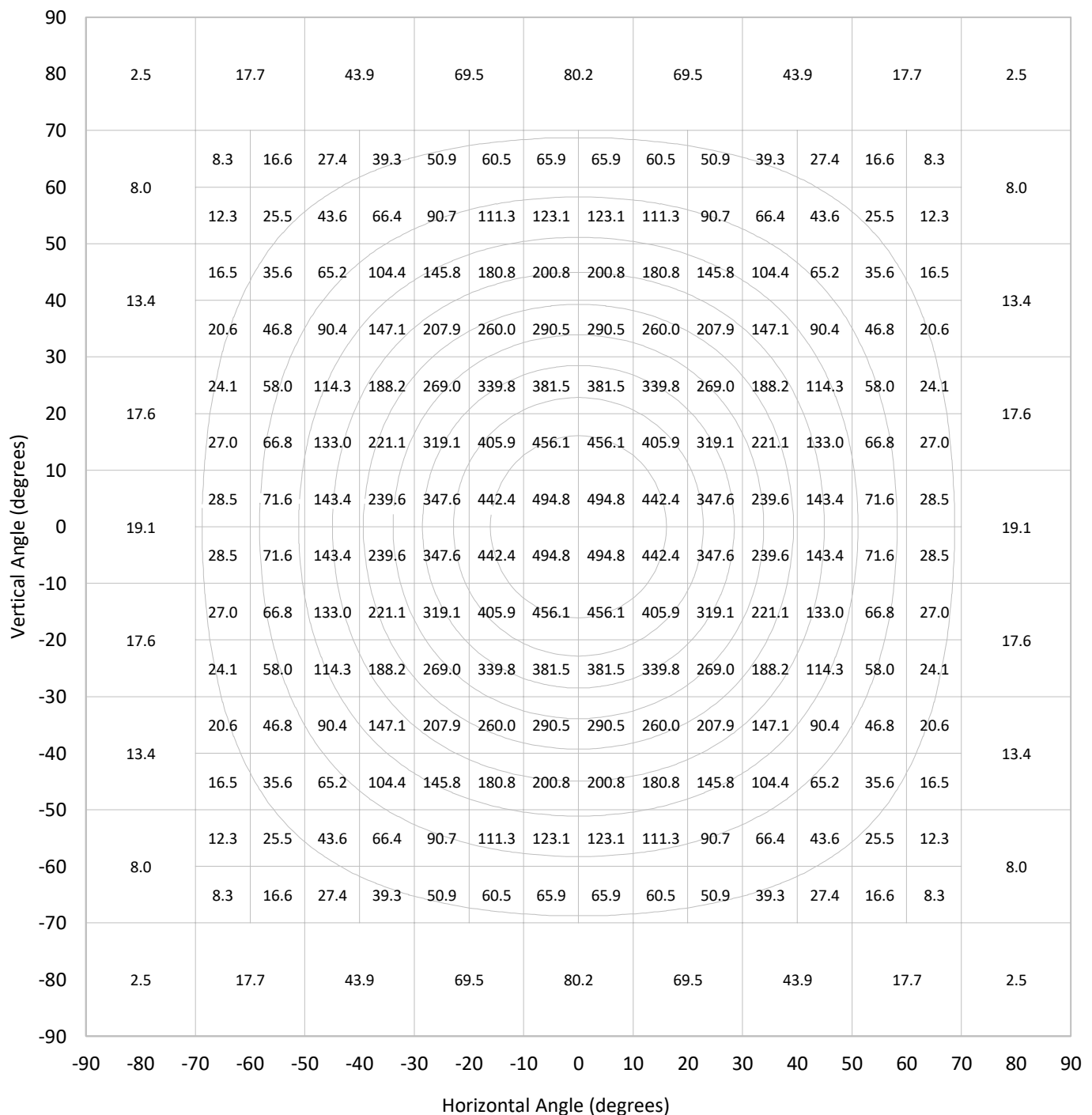
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Iso-Candela Plot



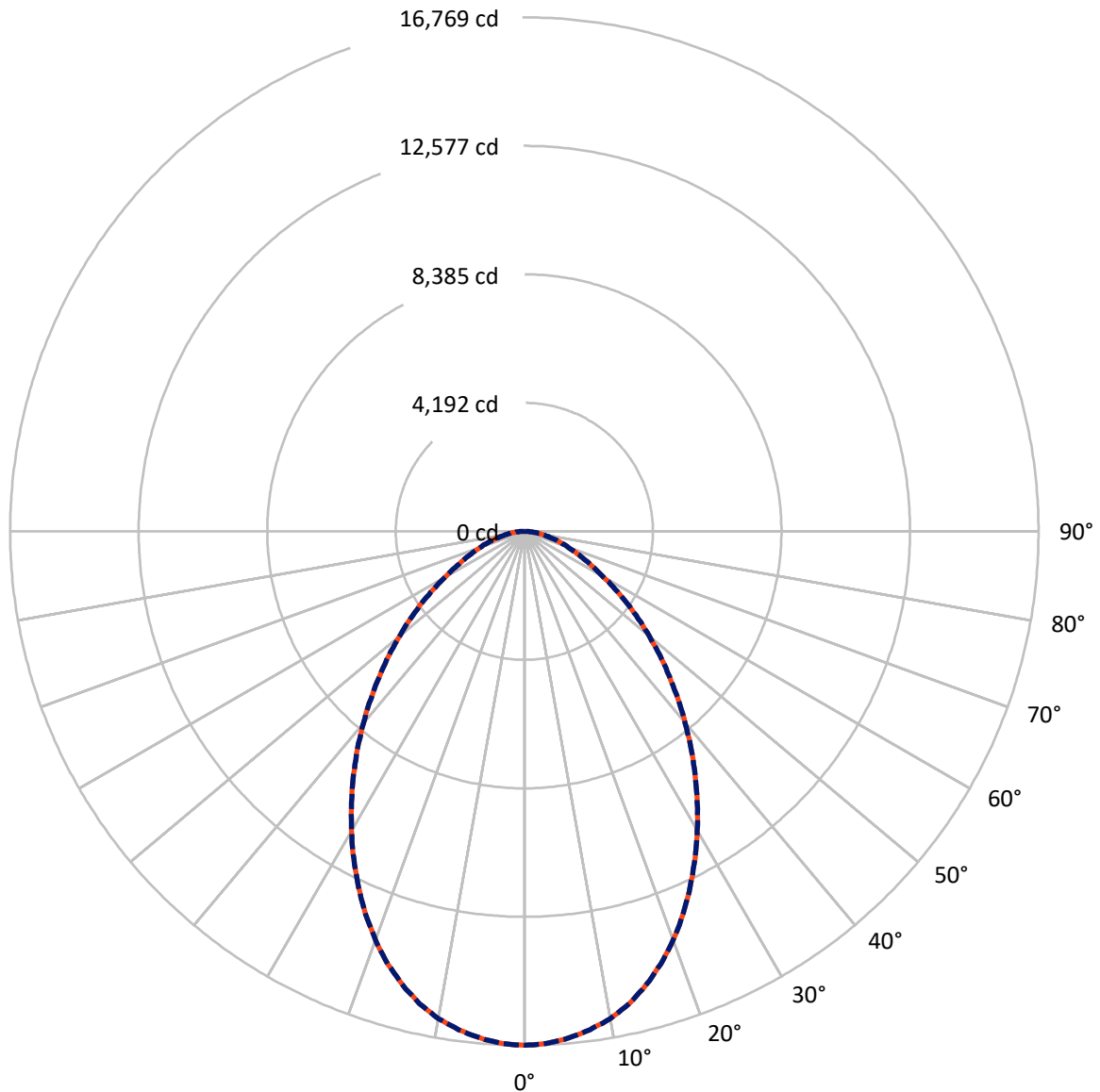
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Lumen Table



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Luminous Intensity Polar Plot

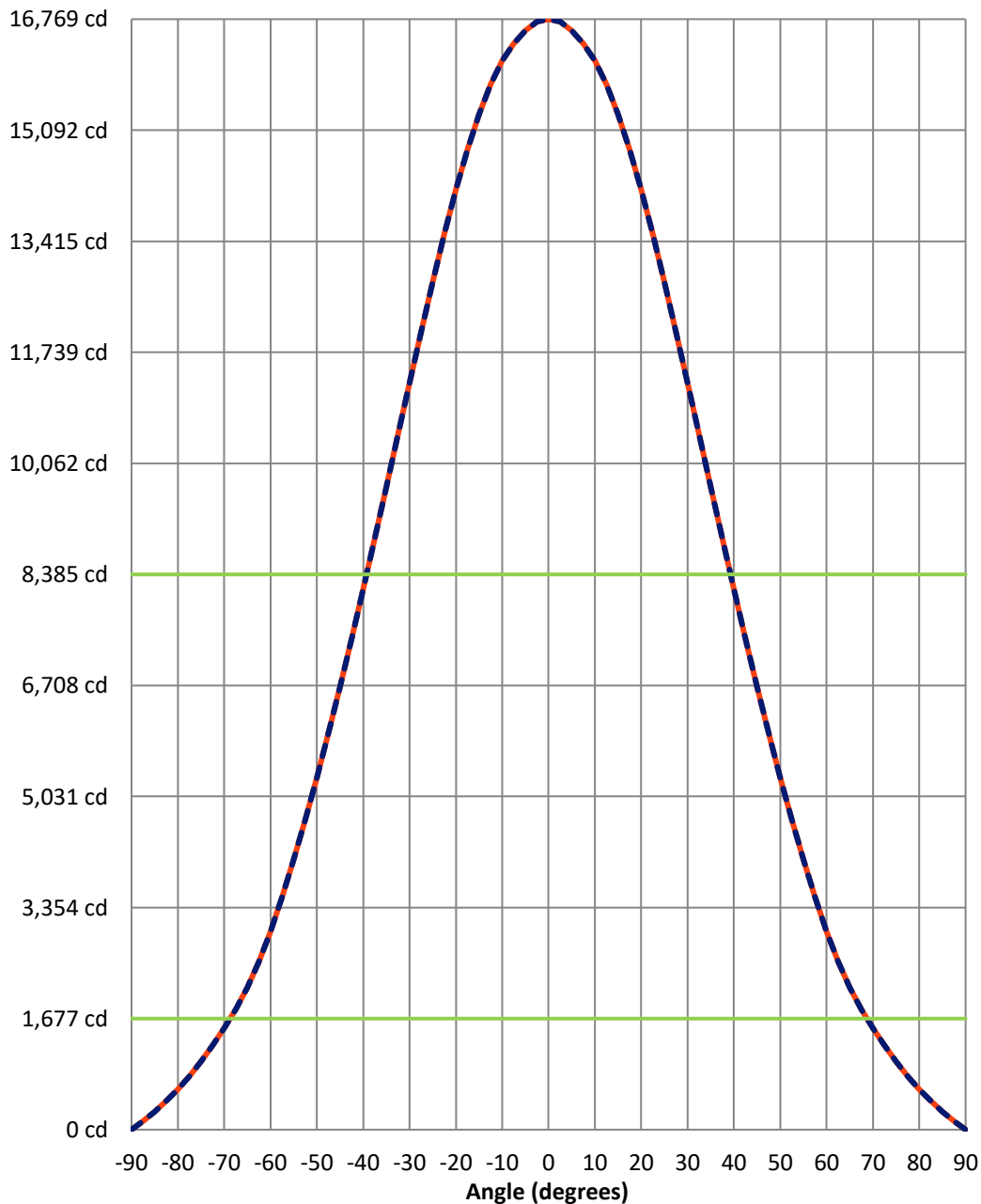


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 13064.4

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 21392.5

Efficiency: 70.9%

Spill:

Lumens: 8800.9

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°	129.1	129.1	129.1	129.1	129.1	129.1	129.1	122.8	122.8	119.6	116.5
85°	270.7	270.7	270.7	270.7	270.7	264.4	261.3	258.1	255.0	248.7	245.5
82.5°	434.4	434.4	434.4	434.4	428.1	421.8	418.7	412.4	406.1	396.6	387.2
80°	607.6	607.6	607.6	607.6	598.1	591.8	582.4	576.1	566.6	554.0	541.5
77.5°	805.9	805.9	805.9	796.4	790.1	780.7	771.3	758.7	746.1	730.3	711.4
75°	1029.4	1029.4	1029.4	1016.8	1007.4	997.9	982.2	966.4	947.5	925.5	900.3
72.5°	1271.8	1271.8	1271.8	1256.0	1246.6	1230.9	1212.0	1189.9	1167.9	1139.6	1108.1
70°	1533.1	1533.1	1533.1	1514.2	1498.4	1482.7	1457.5	1432.3	1400.8	1369.4	1331.6
67.5°	1816.4	1816.4	1816.4	1794.3	1775.5	1753.4	1725.1	1693.6	1655.8	1611.8	1567.7
65°	2146.9	2146.9	2134.3	2115.4	2093.4	2061.9	2027.3	1983.2	1936.0	1879.3	1819.5
62.5°	2537.3	2537.3	2518.4	2496.3	2468.0	2427.1	2379.9	2323.2	2257.1	2184.7	2112.3
60°	2990.6	2990.6	2968.5	2940.2	2899.3	2848.9	2786.0	2713.6	2631.7	2540.4	2452.3
57.5°	3513.1	3513.1	3484.8	3447.0	3396.7	3333.7	3255.0	3163.7	3059.8	2946.5	2836.3
55°	4079.8	4079.8	4045.1	4001.1	3941.3	3865.7	3771.3	3664.2	3538.3	3409.3	3267.6
52.5°	4681.0	4681.0	4640.1	4589.7	4520.5	4432.4	4325.3	4199.4	4054.6	3903.5	3736.6
50°	5313.8	5313.8	5266.6	5209.9	5131.2	5027.3	4904.5	4759.7	4599.2	4422.9	4230.9
47.5°	5990.6	5990.6	5937.1	5871.0	5776.5	5656.9	5512.1	5345.3	5162.7	4964.4	4747.1
45°	6686.3	6686.3	6626.5	6550.9	6447.1	6311.7	6151.1	5990.6	5757.6	5527.8	5276.0
42.5°	7410.3	7410.3	7341.1	7256.1	7136.5	6988.5	6805.9	6598.2	6368.4	6110.2	5836.3
40°	8162.7	8162.7	8084.0	7986.4	7854.2	7684.2	7479.6	7246.6	6988.5	6702.0	6399.8
37.5°	8930.8	8930.8	8842.7	8735.6	8587.7	8398.8	8169.0	7910.9	7621.2	7303.3	6969.6
35°	9705.2	9705.2	9607.6	9491.1	9327.5	9119.7	8871.0	8584.5	8263.4	7917.2	7542.6
32.5°	10495.4	10495.4	10388.3	10256.1	10070.4	9840.6	9566.7	9255.0	8930.8	8527.9	8118.6
30°	11276.0	11276.0	11159.6	11014.8	10816.4	10564.6	10265.5	9922.4	9541.5	9129.1	8688.4
27.5°	12044.2	12012.7	11915.1	11760.8	11543.6	11276.0	10951.8	10580.3	10168.0	9714.7	9242.5
25°	12799.7	12765.0	12658.0	12488.0	12255.1	11962.3	11612.9	11216.2	10772.4	10293.9	9777.6
22.5°	13523.7	13485.9	13372.6	13190.0	12941.3	12623.4	12248.8	11823.8	11351.6	10838.5	10293.9
20°	14194.2	14153.3	14036.8	13844.8	13586.7	13249.8	12853.2	12396.7	11893.1	11351.6	10772.4
17.5°	14798.6	14757.7	14634.9	14436.6	14194.2	13819.6	13410.4	12928.7	12396.7	11823.8	11216.2
15°	15330.6	15286.6	15160.7	14962.3	14685.3	14332.7	13901.5	13410.4	12853.2	12248.8	11612.9
12.5°	15784.0	15739.9	15610.8	15412.5	15126.0	14773.5	14332.7	13819.6	13249.8	12623.4	11962.3
10°	16142.8	16098.7	15976.0	15787.1	15491.2	15126.0	14685.3	14194.2	13586.7	12941.3	12255.1
7.5°	16401.0	16360.0	16246.7	16057.8	15787.1	15412.5	14962.3	14436.6	13844.8	13190.0	12488.0
5°	16596.1	16548.9	16435.6	16246.7	15976.0	15610.8	15160.7	14634.9	14036.8	13372.6	12658.0
2.5°	16731.5	16674.8	16548.9	16360.0	16098.7	15739.9	15286.6	14757.7	14153.3	13485.9	12765.0
0°	16769.3	16731.5	16596.1	16401.0	16142.8	15784.0	15330.6	14798.6	14194.2	13523.7	12799.7

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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°	113.3	113.3	110.2	107.0	103.9	97.6	94.4	91.3	88.1	81.8	78.7
85°	239.2	233.0	226.7	220.4	210.9	204.6	195.2	188.9	179.4	170.0	160.5
82.5°	377.8	368.3	355.7	346.3	333.7	317.9	305.4	289.6	273.9	261.3	245.5
80°	528.9	513.1	497.4	481.6	462.8	443.9	425.0	406.1	384.1	362.0	340.0
77.5°	692.6	670.5	648.5	623.3	601.3	576.1	550.9	525.7	497.4	469.0	440.7
75°	875.1	846.8	815.3	783.8	755.5	720.9	686.3	651.6	613.9	579.2	541.5
72.5°	1073.5	1038.8	1001.1	963.3	922.4	878.3	834.2	787.0	742.9	698.9	651.6
70°	1287.5	1246.6	1199.4	1152.2	1101.8	1048.3	994.8	938.1	881.4	824.8	768.1
67.5°	1517.3	1467.0	1410.3	1353.6	1290.7	1227.7	1164.8	1098.6	1029.4	960.1	894.0
65°	1762.9	1699.9	1633.8	1561.4	1489.0	1416.6	1341.0	1262.3	1183.6	1101.8	1029.4
62.5°	2036.7	1958.0	1873.0	1784.9	1703.1	1614.9	1533.1	1435.5	1341.0	1249.7	1158.5
60°	2354.7	2250.8	2146.9	2036.7	1932.9	1819.5	1718.8	1611.8	1504.7	1400.8	1293.8
57.5°	2710.4	2578.2	2452.3	2320.1	2181.5	2055.6	1926.6	1797.5	1677.9	1555.1	1438.6
55°	3113.3	2952.8	2795.4	2631.7	2471.2	2313.8	2150.1	2005.3	1857.3	1718.8	1583.4
52.5°	3554.1	3371.5	3176.3	2990.6	2786.0	2590.8	2408.2	2225.6	2052.5	1885.6	1731.4
50°	4026.3	3812.2	3588.7	3362.0	3129.1	2899.3	2678.9	2464.9	2263.4	2068.2	1885.6
47.5°	4517.3	4275.0	4020.0	3761.8	3513.1	3233.0	2968.5	2726.1	2483.8	2263.4	2052.5
45°	5021.0	4747.1	4467.0	4174.2	3881.5	3579.2	3286.5	2990.6	2726.1	2464.9	2225.6
42.5°	5540.4	5231.9	4920.3	4596.0	4271.8	3941.3	3610.7	3286.5	2968.5	2678.9	2408.2
40°	6075.6	5735.6	5379.9	5027.3	4681.0	4303.3	3941.3	3579.2	3233.0	2899.3	2590.8
37.5°	6610.7	6239.3	5855.2	5458.6	5061.9	4681.0	4271.8	3881.5	3513.1	3129.1	2786.0
35°	7149.1	6739.8	6324.3	5893.0	5458.6	5027.3	4596.0	4174.2	3761.8	3362.0	2990.6
32.5°	7690.5	7243.5	6783.9	6324.3	5855.2	5379.9	4920.3	4467.0	4020.0	3588.7	3176.3
30°	8222.5	7737.7	7243.5	6739.8	6239.3	5735.6	5231.9	4747.1	4275.0	3812.2	3371.5
27.5°	8741.9	8222.5	7690.5	7149.1	6610.7	6075.6	5540.4	5021.0	4517.3	4026.3	3554.1
25°	9242.5	8688.4	8118.6	7542.6	6969.6	6399.8	5836.3	5276.0	4747.1	4230.9	3736.6
22.5°	9714.7	9129.1	8527.9	7917.2	7303.3	6702.0	6110.2	5527.8	4964.4	4422.9	3903.5
20°	10168.0	9541.5	8930.8	8263.4	7621.2	6988.5	6368.4	5757.6	5162.7	4599.2	4054.6
17.5°	10580.3	9922.4	9255.0	8584.5	7910.9	7246.6	6598.2	5990.6	5345.3	4759.7	4199.4
15°	10951.8	10265.5	9566.7	8871.0	8169.0	7479.6	6805.9	6151.1	5512.1	4904.5	4325.3
12.5°	11276.0	10564.6	9840.6	9119.7	8398.8	7684.2	6988.5	6311.7	5656.9	5027.3	4432.4
10°	11543.6	10816.4	10070.4	9327.5	8587.7	7854.2	7136.5	6447.1	5776.5	5131.2	4520.5
7.5°	11760.8	11014.8	10256.1	9491.1	8735.6	7986.4	7256.1	6550.9	5871.0	5209.9	4589.7
5°	11915.1	11159.6	10388.3	9607.6	8842.7	8084.0	7341.1	6626.5	5937.1	5266.6	4640.1
2.5°	12012.7	11276.0	10495.4	9705.2	8930.8	8162.7	7410.3	6686.3	5990.6	5313.8	4681.0
0°	12044.2	11276.0	10495.4	9705.2	8930.8	8162.7	7410.3	6686.3	5990.6	5313.8	4681.0

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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°	75.6	69.3	63.0	59.8	53.5	50.4	44.1	37.8	34.6	28.3	22.0
85°	151.1	138.5	129.1	119.6	110.2	97.6	88.1	78.7	66.1	56.7	44.1
82.5°	229.8	214.1	198.3	182.6	166.8	151.1	132.2	116.5	100.7	85.0	66.1
80°	317.9	292.8	270.7	248.7	226.7	204.6	179.4	157.4	132.2	110.2	88.1
77.5°	409.2	380.9	349.4	317.9	286.5	258.1	226.7	198.3	170.0	138.5	110.2
75°	506.8	469.0	434.4	393.5	355.7	314.8	277.0	239.2	204.6	170.0	132.2
72.5°	607.6	560.3	513.1	469.0	421.8	374.6	330.5	283.3	239.2	198.3	157.4
70°	711.4	654.8	598.1	544.6	491.1	434.4	384.1	330.5	277.0	226.7	179.4
67.5°	821.6	755.5	689.4	620.2	560.3	497.4	434.4	374.6	314.8	258.1	204.6
65°	941.2	862.5	780.7	708.3	629.6	560.3	491.1	421.8	355.7	286.5	226.7
62.5°	1064.0	972.7	881.4	790.1	708.3	620.2	544.6	469.0	393.5	317.9	248.7
60°	1189.9	1086.1	982.2	881.4	780.7	689.4	598.1	513.1	434.4	349.4	270.7
57.5°	1319.0	1202.5	1086.1	972.7	862.5	755.5	654.8	560.3	469.0	380.9	292.8
55°	1451.2	1319.0	1189.9	1064.0	941.2	821.6	711.4	607.6	506.8	409.2	317.9
52.5°	1583.4	1438.6	1293.8	1158.5	1029.4	894.0	768.1	651.6	541.5	440.7	340.0
50°	1718.8	1555.1	1400.8	1249.7	1101.8	960.1	824.8	698.9	579.2	469.0	362.0
47.5°	1857.3	1677.9	1504.7	1341.0	1183.6	1029.4	881.4	742.9	613.9	497.4	384.1
45°	2005.3	1797.5	1611.8	1435.5	1262.3	1098.6	938.1	787.0	651.6	525.7	406.1
42.5°	2150.1	1926.6	1718.8	1533.1	1341.0	1164.8	994.8	834.2	686.3	550.9	425.0
40°	2313.8	2055.6	1819.5	1614.9	1416.6	1227.7	1048.3	878.3	720.9	576.1	443.9
37.5°	2471.2	2181.5	1932.9	1703.1	1489.0	1290.7	1101.8	922.4	755.5	601.3	462.8
35°	2631.7	2320.1	2036.7	1784.9	1561.4	1353.6	1152.2	963.3	783.8	623.3	481.6
32.5°	2795.4	2452.3	2146.9	1873.0	1633.8	1410.3	1199.4	1001.1	815.3	648.5	497.4
30°	2952.8	2578.2	2250.8	1958.0	1699.9	1467.0	1246.6	1038.8	846.8	670.5	513.1
27.5°	3113.3	2710.4	2354.7	2036.7	1762.9	1517.3	1287.5	1073.5	875.1	692.6	528.9
25°	3267.6	2836.3	2452.3	2112.3	1819.5	1567.7	1331.6	1108.1	900.3	711.4	541.5
22.5°	3409.3	2946.5	2540.4	2184.7	1879.3	1611.8	1369.4	1139.6	925.5	730.3	554.0
20°	3538.3	3059.8	2631.7	2257.1	1936.0	1655.8	1400.8	1167.9	947.5	746.1	566.6
17.5°	3664.2	3163.7	2713.6	2323.2	1983.2	1693.6	1432.3	1189.9	966.4	758.7	576.1
15°	3771.3	3255.0	2786.0	2379.9	2027.3	1725.1	1457.5	1212.0	982.2	771.3	582.4
12.5°	3865.7	3333.7	2848.9	2427.1	2061.9	1753.4	1482.7	1230.9	997.9	780.7	591.8
10°	3941.3	3396.7	2899.3	2468.0	2093.4	1775.5	1498.4	1246.6	1007.4	790.1	598.1
7.5°	4001.1	3447.0	2940.2	2496.3	2115.4	1794.3	1514.2	1256.0	1016.8	796.4	607.6
5°	4045.1	3484.8	2968.5	2518.4	2134.3	1816.4	1533.1	1271.8	1029.4	805.9	607.6
2.5°	4079.8	3513.1	2990.6	2537.3	2146.9	1816.4	1533.1	1271.8	1029.4	805.9	607.6
0°	4079.8	3513.1	2990.6	2537.3	2146.9	1816.4	1533.1	1271.8	1029.4	805.9	607.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.7	12.6	6.3	0.0
85°	34.6	22.0	12.6	0.0
82.5°	50.4	34.6	15.7	0.0
80°	66.1	44.1	22.0	0.0
77.5°	85.0	56.7	28.3	0.0
75°	100.7	66.1	34.6	0.0
72.5°	116.5	78.7	37.8	0.0
70°	132.2	88.1	44.1	0.0
67.5°	151.1	97.6	50.4	0.0
65°	166.8	110.2	53.5	0.0
62.5°	182.6	119.6	59.8	0.0
60°	198.3	129.1	63.0	0.0
57.5°	214.1	138.5	69.3	0.0
55°	229.8	151.1	75.6	0.0
52.5°	245.5	160.5	78.7	0.0
50°	261.3	170.0	81.8	0.0
47.5°	273.9	179.4	88.1	0.0
45°	289.6	188.9	91.3	0.0
42.5°	305.4	195.2	94.4	0.0
40°	317.9	204.6	97.6	0.0
37.5°	333.7	210.9	103.9	0.0
35°	346.3	220.4	107.0	0.0
32.5°	355.7	226.7	110.2	0.0
30°	368.3	233.0	113.3	0.0
27.5°	377.8	239.2	113.3	0.0
25°	387.2	245.5	116.5	0.0
22.5°	396.6	248.7	119.6	0.0
20°	406.1	255.0	122.8	0.0
17.5°	412.4	258.1	122.8	0.0
15°	418.7	261.3	129.1	0.0
12.5°	421.8	264.4	129.1	0.0
10°	428.1	270.7	129.1	0.0
7.5°	434.4	270.7	129.1	0.0
5°	434.4	270.7	129.1	0.0
2.5°	434.4	270.7	129.1	0.0
0°	434.4	270.7	129.1	0.0

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