

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: P623837

Luminaire Tested: **IFLD-L-SA8B-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623837
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31123.5 lumens	Max Intensity:	17285.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	97.3 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:	13466.9 lumens	Field Lumens:	22051.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

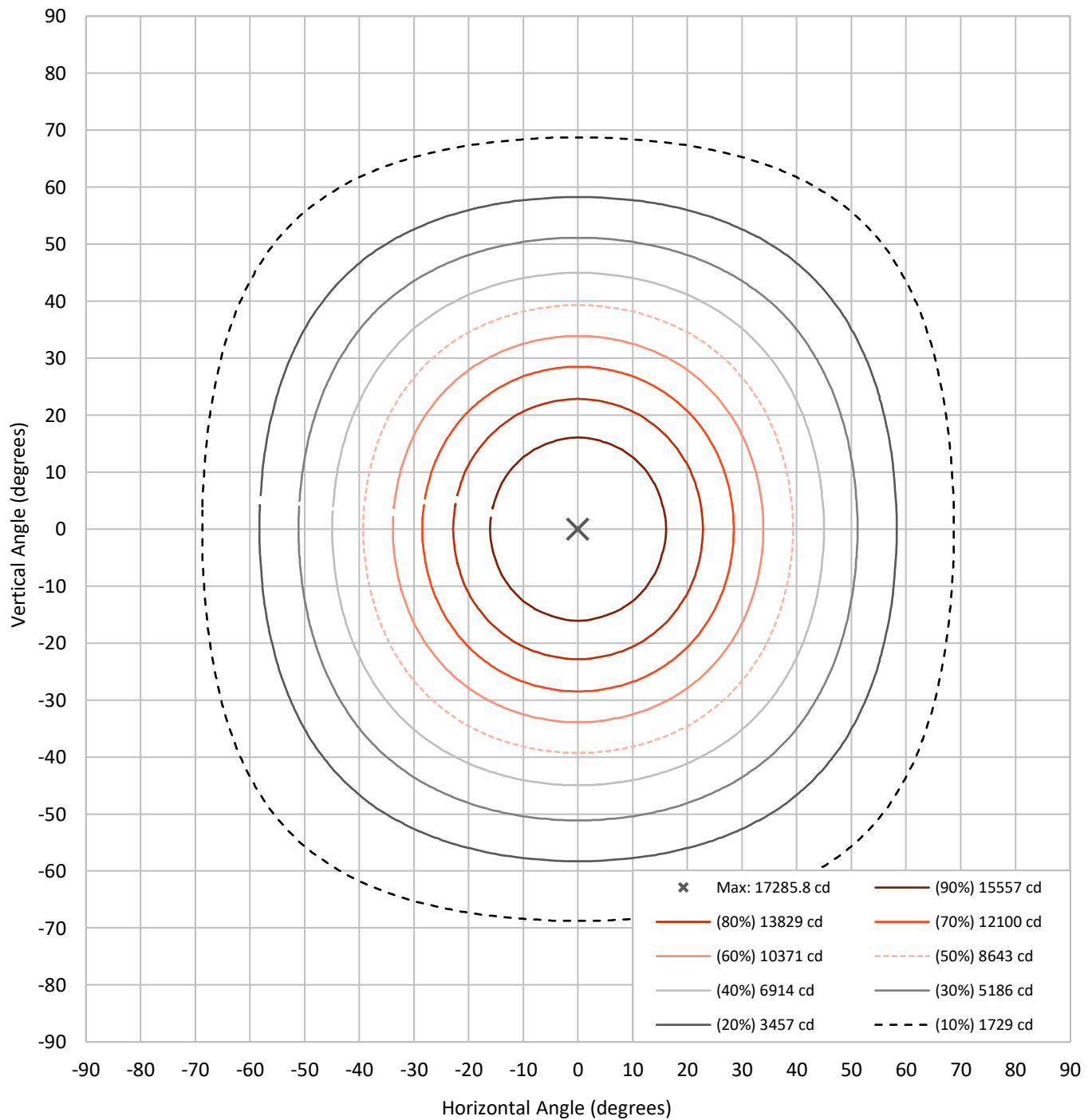
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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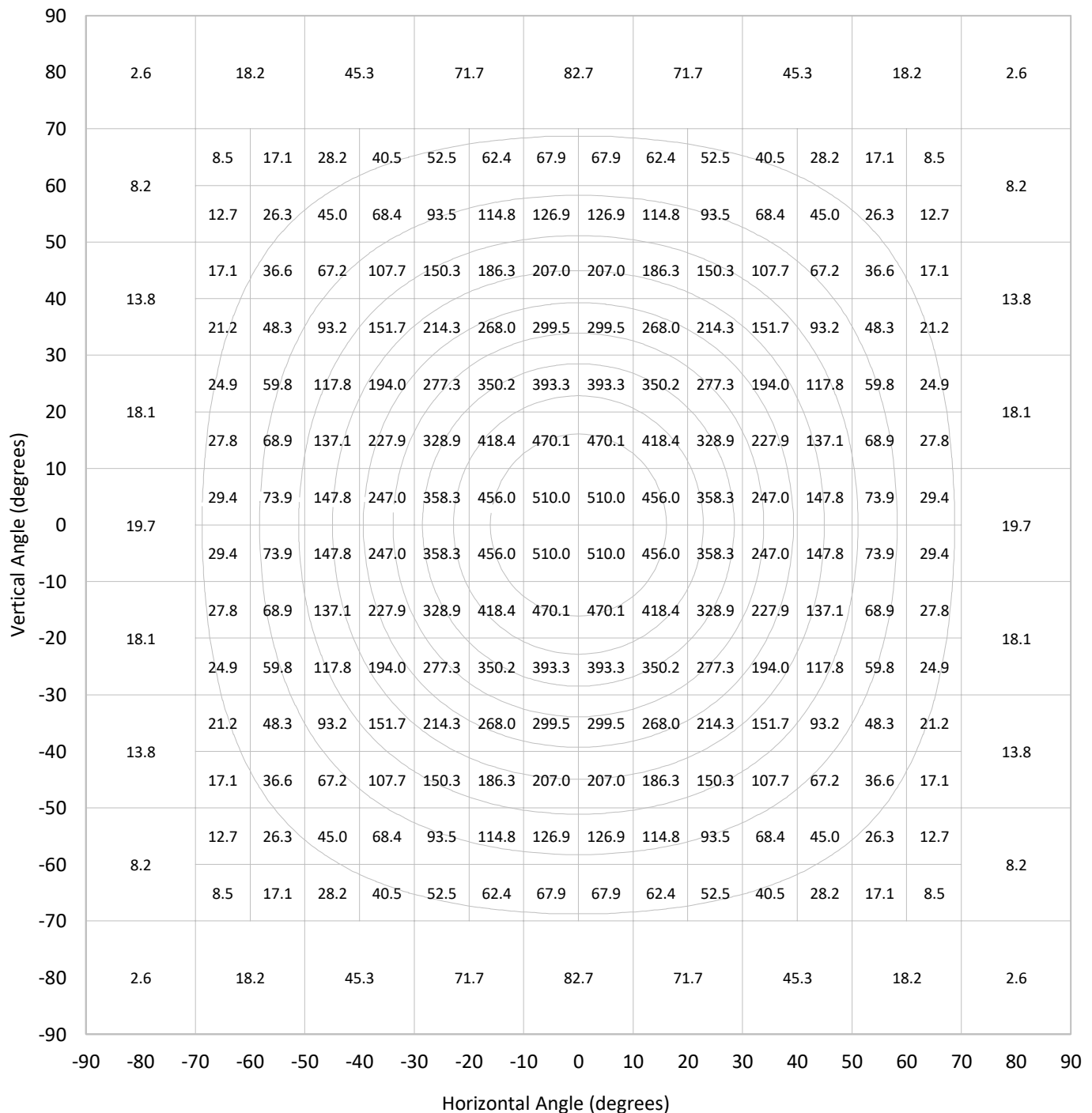
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Iso-Candela Plot



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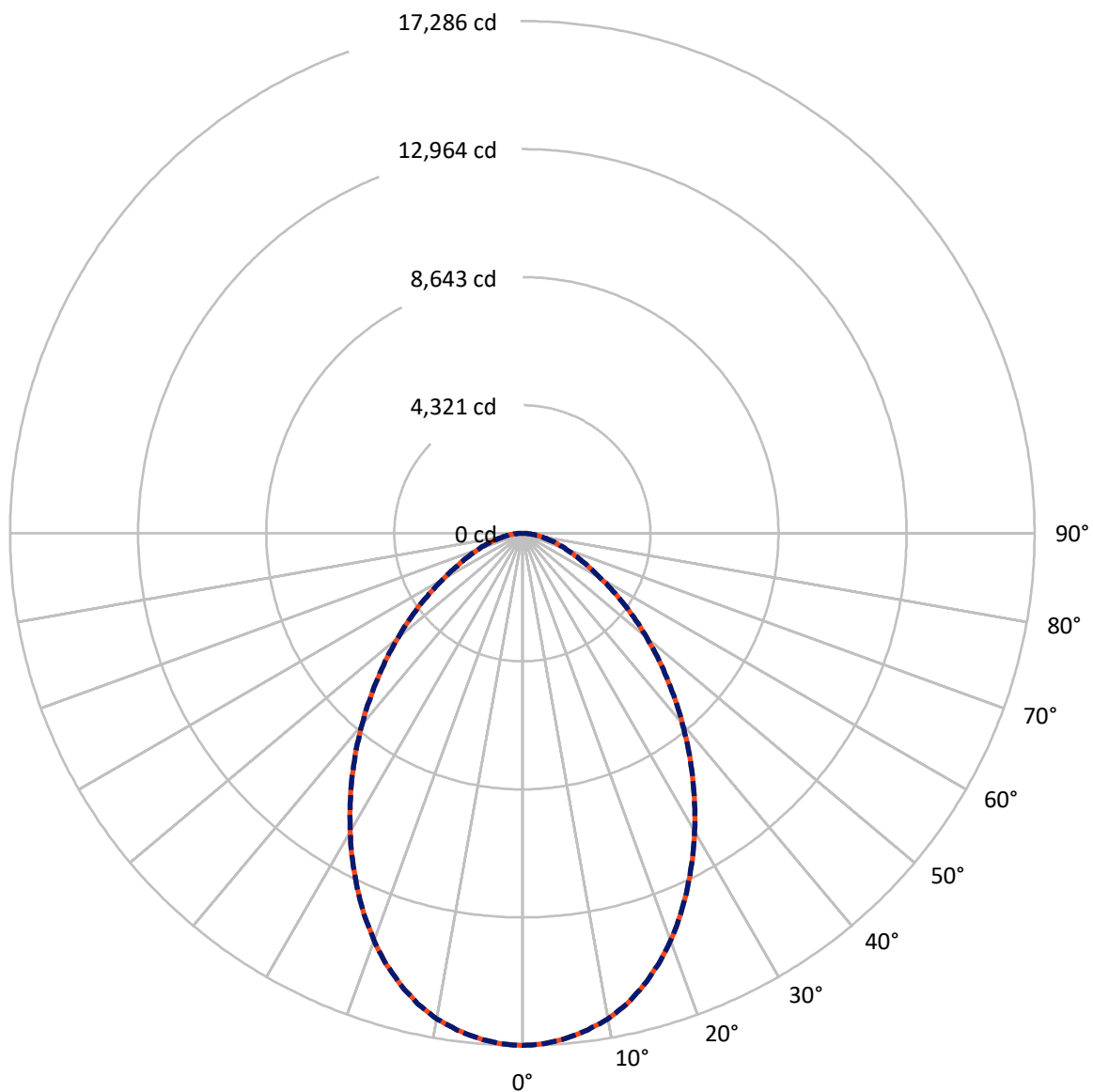
Lumen Table



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Luminous Intensity Polar Plot



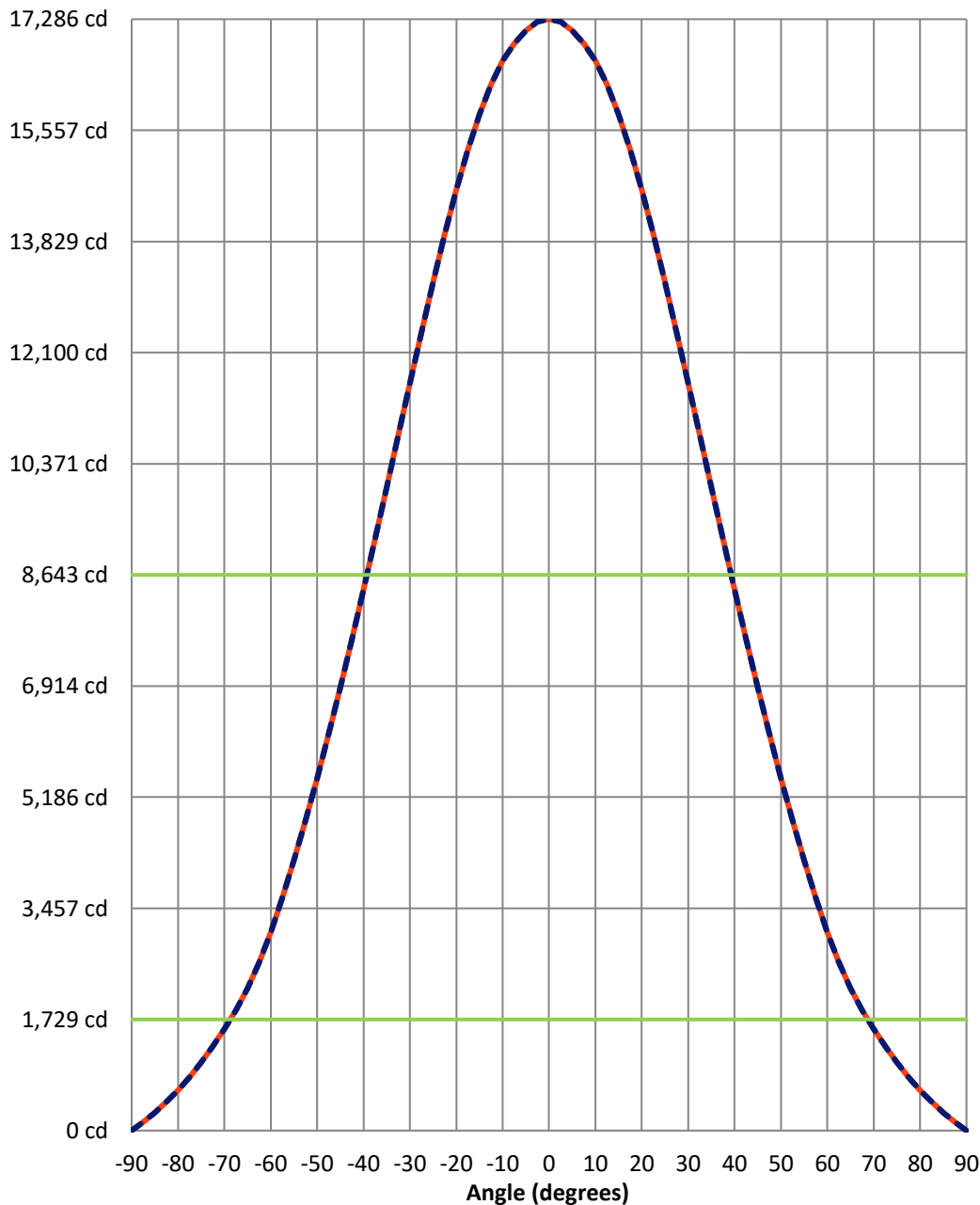
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 13466.9
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 22051.5
Efficiency: 70.9%

Spill:

Lumens: 9072
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°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	126.6	126.6	123.3	120.1
85°	279.1	279.1	279.1	279.1	279.1	272.6	269.3	266.1	262.8	256.4	253.1
82.5°	447.8	447.8	447.8	447.8	441.3	434.8	431.6	425.1	418.6	408.9	399.1
80°	626.3	626.3	626.3	626.3	616.5	610.1	600.3	593.8	584.1	571.1	558.1
77.5°	830.7	830.7	830.7	821.0	814.5	804.7	795.0	782.0	769.1	752.8	733.4
75°	1061.1	1061.1	1061.1	1048.1	1038.4	1028.6	1012.4	996.2	976.7	954.0	928.1
72.5°	1311.0	1311.0	1311.0	1294.7	1285.0	1268.8	1249.3	1226.6	1203.9	1174.7	1142.2
70°	1580.3	1580.3	1580.3	1560.8	1544.6	1528.4	1502.4	1476.5	1444.0	1411.6	1372.6
67.5°	1872.3	1872.3	1872.3	1849.6	1830.2	1807.4	1778.2	1745.8	1706.8	1661.4	1616.0
65°	2213.1	2213.1	2200.1	2180.6	2157.9	2125.4	2089.7	2044.3	1995.6	1937.2	1875.6
62.5°	2615.4	2615.4	2596.0	2573.2	2544.0	2501.9	2453.2	2394.8	2326.6	2252.0	2177.4
60°	3082.7	3082.7	3060.0	3030.8	2988.6	2936.7	2871.8	2797.1	2712.8	2618.7	2527.8
57.5°	3621.4	3621.4	3592.2	3553.2	3501.3	3436.4	3355.3	3261.2	3154.1	3037.3	2923.7
55°	4205.5	4205.5	4169.8	4124.3	4062.7	3984.8	3887.4	3777.1	3647.3	3514.3	3368.3
52.5°	4825.2	4825.2	4783.1	4731.1	4659.7	4568.9	4458.6	4328.8	4179.5	4023.7	3851.8
50°	5477.5	5477.5	5428.8	5370.4	5289.3	5182.2	5055.6	4906.4	4740.9	4559.2	4361.2
47.5°	6175.1	6175.1	6120.0	6051.8	5954.5	5831.2	5681.9	5509.9	5321.7	5117.3	4893.4
45°	6892.3	6892.3	6830.6	6752.7	6645.7	6506.1	6340.6	6175.1	5935.0	5698.1	5438.5
42.5°	7638.6	7638.6	7567.2	7479.6	7356.3	7203.8	7015.6	6801.4	6564.5	6298.4	6016.1
40°	8414.2	8414.2	8333.0	8232.4	8096.1	7920.9	7710.0	7469.9	7203.8	6908.5	6597.0
37.5°	9205.9	9205.9	9115.1	9004.7	8852.2	8657.5	8420.6	8154.6	7856.0	7528.3	7184.3
35°	10004.2	10004.2	9903.6	9783.5	9614.8	9400.6	9144.3	8849.0	8518.0	8161.0	7774.9
32.5°	10818.7	10818.7	10708.3	10572.0	10380.6	10143.7	9861.4	9540.1	9205.9	8790.6	8368.7
30°	11623.4	11623.4	11503.3	11354.1	11149.6	10890.0	10581.8	10228.1	9835.4	9410.3	8956.1
27.5°	12415.2	12382.7	12282.1	12123.1	11899.2	11623.4	11289.2	10906.3	10481.2	10013.9	9527.2
25°	13194.0	13158.3	13047.9	12872.7	12632.6	12330.8	11970.6	11561.7	11104.2	10611.0	10078.8
22.5°	13940.3	13901.4	13784.5	13596.3	13340.0	13012.2	12626.1	12188.0	11701.3	11172.4	10611.0
20°	14631.5	14589.3	14469.2	14271.3	14005.2	13658.0	13249.1	12778.6	12259.4	11701.3	11104.2
17.5°	15254.5	15212.3	15085.8	14881.3	14631.5	14245.3	13823.5	13327.0	12778.6	12188.0	11561.7
15°	15802.9	15757.5	15627.7	15423.2	15137.7	14774.2	14329.7	13823.5	13249.1	12626.1	11970.6
12.5°	16270.2	16224.7	16091.7	15887.3	15592.0	15228.5	14774.2	14245.3	13658.0	13012.2	12330.8
10°	16640.1	16594.7	16468.1	16273.4	15968.4	15592.0	15137.7	14631.5	14005.2	13340.0	12632.6
7.5°	16906.2	16864.0	16747.2	16552.5	16273.4	15887.3	15423.2	14881.3	14271.3	13596.3	12872.7
5°	17107.4	17058.7	16941.9	16747.2	16468.1	16091.7	15627.7	15085.8	14469.2	13784.5	13047.9
2.5°	17246.9	17188.5	17058.7	16864.0	16594.7	16224.7	15757.5	15212.3	14589.3	13901.4	13158.3
0°	17285.8	17246.9	17107.4	16906.2	16640.1	16270.2	15802.9	15254.5	14631.5	13940.3	13194.0

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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°	116.8	116.8	113.6	110.3	107.1	100.6	97.3	94.1	90.9	84.4	81.1
85°	246.6	240.1	233.6	227.1	217.4	210.9	201.2	194.7	185.0	175.2	165.5
82.5°	389.4	379.7	366.7	356.9	344.0	327.7	314.8	298.5	282.3	269.3	253.1
80°	545.2	528.9	512.7	496.5	477.0	457.5	438.1	418.6	395.9	373.2	350.5
77.5°	713.9	691.2	668.5	642.5	619.8	593.8	567.9	541.9	512.7	483.5	454.3
75°	902.1	872.9	840.4	808.0	778.8	743.1	707.4	671.7	632.8	597.1	558.1
72.5°	1106.5	1070.8	1031.9	993.0	950.8	905.3	859.9	811.2	765.8	720.4	671.7
70°	1327.2	1285.0	1236.3	1187.7	1135.7	1080.6	1025.4	967.0	908.6	850.2	791.8
67.5°	1564.1	1512.1	1453.7	1395.3	1330.4	1265.5	1200.6	1132.5	1061.1	989.7	921.6
65°	1817.2	1752.3	1684.1	1609.5	1534.9	1460.2	1382.3	1301.2	1220.1	1135.7	1061.1
62.5°	2099.5	2018.4	1930.7	1839.9	1755.5	1664.7	1580.3	1479.7	1382.3	1288.2	1194.1
60°	2427.2	2320.1	2213.1	2099.5	1992.4	1875.6	1771.7	1661.4	1551.1	1444.0	1333.7
57.5°	2793.9	2657.6	2527.8	2391.5	2248.7	2119.0	1985.9	1852.9	1729.6	1603.0	1482.9
55°	3209.3	3043.8	2881.5	2712.8	2547.3	2385.0	2216.3	2067.0	1914.5	1771.7	1632.2
52.5°	3663.5	3475.3	3274.2	3082.7	2871.8	2670.6	2482.4	2294.2	2115.7	1943.7	1784.7
50°	4150.3	3929.6	3699.2	3465.6	3225.5	2988.6	2761.5	2540.8	2333.1	2131.9	1943.7
47.5°	4656.5	4406.6	4143.8	3877.7	3621.4	3332.6	3060.0	2810.1	2560.3	2333.1	2115.7
45°	5175.7	4893.4	4604.6	4302.8	4001.0	3689.5	3387.7	3082.7	2810.1	2540.8	2294.2
42.5°	5711.1	5393.1	5071.9	4737.6	4403.4	4062.7	3722.0	3387.7	3060.0	2761.5	2482.4
40°	6262.7	5912.3	5545.6	5182.2	4825.2	4435.8	4062.7	3689.5	3332.6	2988.6	2670.6
37.5°	6814.4	6431.5	6035.6	5626.7	5217.9	4825.2	4403.4	4001.0	3621.4	3225.5	2871.8
35°	7369.3	6947.4	6519.1	6074.5	5626.7	5182.2	4737.6	4302.8	3877.7	3465.6	3082.7
32.5°	7927.4	7466.6	6992.9	6519.1	6035.6	5545.6	5071.9	4604.6	4143.8	3699.2	3274.2
30°	8475.8	7976.1	7466.6	6947.4	6431.5	5912.3	5393.1	4893.4	4406.6	3929.6	3475.3
27.5°	9011.2	8475.8	7927.4	7369.3	6814.4	6262.7	5711.1	5175.7	4656.5	4150.3	3663.5
25°	9527.2	8956.1	8368.7	7774.9	7184.3	6597.0	6016.1	5438.5	4893.4	4361.2	3851.8
22.5°	10013.9	9410.3	8790.6	8161.0	7528.3	6908.5	6298.4	5698.1	5117.3	4559.2	4023.7
20°	10481.2	9835.4	9205.9	8518.0	7856.0	7203.8	6564.5	5935.0	5321.7	4740.9	4179.5
17.5°	10906.3	10228.1	9540.1	8849.0	8154.6	7469.9	6801.4	6175.1	5509.9	4906.4	4328.8
15°	11289.2	10581.8	9861.4	9144.3	8420.6	7710.0	7015.6	6340.6	5681.9	5055.6	4458.6
12.5°	11623.4	10890.0	10143.7	9400.6	8657.5	7920.9	7203.8	6506.1	5831.2	5182.2	4568.9
10°	11899.2	11149.6	10380.6	9614.8	8852.2	8096.1	7356.3	6645.7	5954.5	5289.3	4659.7
7.5°	12123.1	11354.1	10572.0	9783.5	9004.7	8232.4	7479.6	6752.7	6051.8	5370.4	4731.1
5°	12282.1	11503.3	10708.3	9903.6	9115.1	8333.0	7567.2	6830.6	6120.0	5428.8	4783.1
2.5°	12382.7	11623.4	10818.7	10004.2	9205.9	8414.2	7638.6	6892.3	6175.1	5477.5	4825.2
0°	12415.2	11623.4	10818.7	10004.2	9205.9	8414.2	7638.6	6892.3	6175.1	5477.5	4825.2

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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°	77.9	71.4	64.9	61.7	55.2	51.9	45.4	38.9	35.7	29.2	22.7
85°	155.8	142.8	133.0	123.3	113.6	100.6	90.9	81.1	68.1	58.4	45.4
82.5°	236.9	220.7	204.4	188.2	172.0	155.8	136.3	120.1	103.8	87.6	68.1
80°	327.7	301.8	279.1	256.4	233.6	210.9	185.0	162.2	136.3	113.6	90.9
77.5°	421.8	392.6	360.2	327.7	295.3	266.1	233.6	204.4	175.2	142.8	113.6
75°	522.4	483.5	447.8	405.6	366.7	324.5	285.6	246.6	210.9	175.2	136.3
72.5°	626.3	577.6	528.9	483.5	434.8	386.1	340.7	292.0	246.6	204.4	162.2
70°	733.4	674.9	616.5	561.4	506.2	447.8	395.9	340.7	285.6	233.6	185.0
67.5°	846.9	778.8	710.6	639.3	577.6	512.7	447.8	386.1	324.5	266.1	210.9
65°	970.2	889.1	804.7	730.1	649.0	577.6	506.2	434.8	366.7	295.3	233.6
62.5°	1096.8	1002.7	908.6	814.5	730.1	639.3	561.4	483.5	405.6	327.7	256.4
60°	1226.6	1119.5	1012.4	908.6	804.7	710.6	616.5	528.9	447.8	360.2	279.1
57.5°	1359.6	1239.6	1119.5	1002.7	889.1	778.8	674.9	577.6	483.5	392.6	301.8
55°	1495.9	1359.6	1226.6	1096.8	970.2	846.9	733.4	626.3	522.4	421.8	327.7
52.5°	1632.2	1482.9	1333.7	1194.1	1061.1	921.6	791.8	671.7	558.1	454.3	350.5
50°	1771.7	1603.0	1444.0	1288.2	1135.7	989.7	850.2	720.4	597.1	483.5	373.2
47.5°	1914.5	1729.6	1551.1	1382.3	1220.1	1061.1	908.6	765.8	632.8	512.7	395.9
45°	2067.0	1852.9	1661.4	1479.7	1301.2	1132.5	967.0	811.2	671.7	541.9	418.6
42.5°	2216.3	1985.9	1771.7	1580.3	1382.3	1200.6	1025.4	859.9	707.4	567.9	438.1
40°	2385.0	2119.0	1875.6	1664.7	1460.2	1265.5	1080.6	905.3	743.1	593.8	457.5
37.5°	2547.3	2248.7	1992.4	1755.5	1534.9	1330.4	1135.7	950.8	778.8	619.8	477.0
35°	2712.8	2391.5	2099.5	1839.9	1609.5	1395.3	1187.7	993.0	808.0	642.5	496.5
32.5°	2881.5	2527.8	2213.1	1930.7	1684.1	1453.7	1236.3	1031.9	840.4	668.5	512.7
30°	3043.8	2657.6	2320.1	2018.4	1752.3	1512.1	1285.0	1070.8	872.9	691.2	528.9
27.5°	3209.3	2793.9	2427.2	2099.5	1817.2	1564.1	1327.2	1106.5	902.1	713.9	545.2
25°	3368.3	2923.7	2527.8	2177.4	1875.6	1616.0	1372.6	1142.2	928.1	733.4	558.1
22.5°	3514.3	3037.3	2618.7	2252.0	1937.2	1661.4	1411.6	1174.7	954.0	752.8	571.1
20°	3647.3	3154.1	2712.8	2326.6	1995.6	1706.8	1444.0	1203.9	976.7	769.1	584.1
17.5°	3777.1	3261.2	2797.1	2394.8	2044.3	1745.8	1476.5	1226.6	996.2	782.0	593.8
15°	3887.4	3355.3	2871.8	2453.2	2089.7	1778.2	1502.4	1249.3	1012.4	795.0	600.3
12.5°	3984.8	3436.4	2936.7	2501.9	2125.4	1807.4	1528.4	1268.8	1028.6	804.7	610.1
10°	4062.7	3501.3	2988.6	2544.0	2157.9	1830.2	1544.6	1285.0	1038.4	814.5	616.5
7.5°	4124.3	3553.2	3030.8	2573.2	2180.6	1849.6	1560.8	1294.7	1048.1	821.0	626.3
5°	4169.8	3592.2	3060.0	2596.0	2200.1	1872.3	1580.3	1311.0	1061.1	830.7	626.3
2.5°	4205.5	3621.4	3082.7	2615.4	2213.1	1872.3	1580.3	1311.0	1061.1	830.7	626.3
0°	4205.5	3621.4	3082.7	2615.4	2213.1	1872.3	1580.3	1311.0	1061.1	830.7	626.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.2	13.0	6.5	0.0
85°	35.7	22.7	13.0	0.0
82.5°	51.9	35.7	16.2	0.0
80°	68.1	45.4	22.7	0.0
77.5°	87.6	58.4	29.2	0.0
75°	103.8	68.1	35.7	0.0
72.5°	120.1	81.1	38.9	0.0
70°	136.3	90.9	45.4	0.0
67.5°	155.8	100.6	51.9	0.0
65°	172.0	113.6	55.2	0.0
62.5°	188.2	123.3	61.7	0.0
60°	204.4	133.0	64.9	0.0
57.5°	220.7	142.8	71.4	0.0
55°	236.9	155.8	77.9	0.0
52.5°	253.1	165.5	81.1	0.0
50°	269.3	175.2	84.4	0.0
47.5°	282.3	185.0	90.9	0.0
45°	298.5	194.7	94.1	0.0
42.5°	314.8	201.2	97.3	0.0
40°	327.7	210.9	100.6	0.0
37.5°	344.0	217.4	107.1	0.0
35°	356.9	227.1	110.3	0.0
32.5°	366.7	233.6	113.6	0.0
30°	379.7	240.1	116.8	0.0
27.5°	389.4	246.6	116.8	0.0
25°	399.1	253.1	120.1	0.0
22.5°	408.9	256.4	123.3	0.0
20°	418.6	262.8	126.6	0.0
17.5°	425.1	266.1	126.6	0.0
15°	431.6	269.3	133.0	0.0
12.5°	434.8	272.6	133.0	0.0
10°	441.3	279.1	133.0	0.0
7.5°	447.8	279.1	133.0	0.0
5°	447.8	279.1	133.0	0.0
2.5°	447.8	279.1	133.0	0.0
0°	447.8	279.1	133.0	0.0

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