

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: P623839

Luminaire Tested: **IFLD-L-SA8D-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623839
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-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

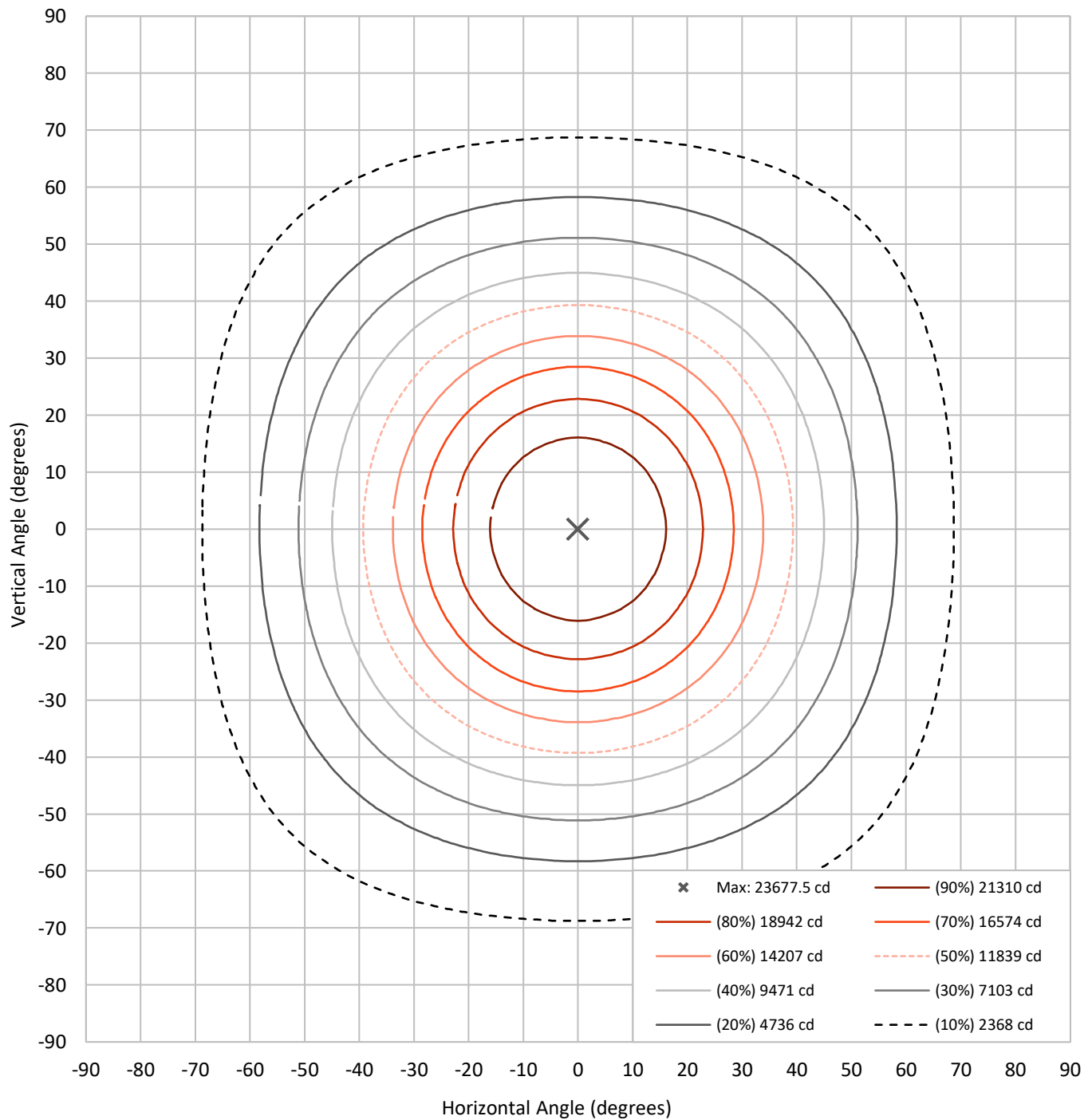
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42631.9 lumens	Max Intensity:	23677.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	18446.4 lumens	Field Lumens:	30205.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	488.3		
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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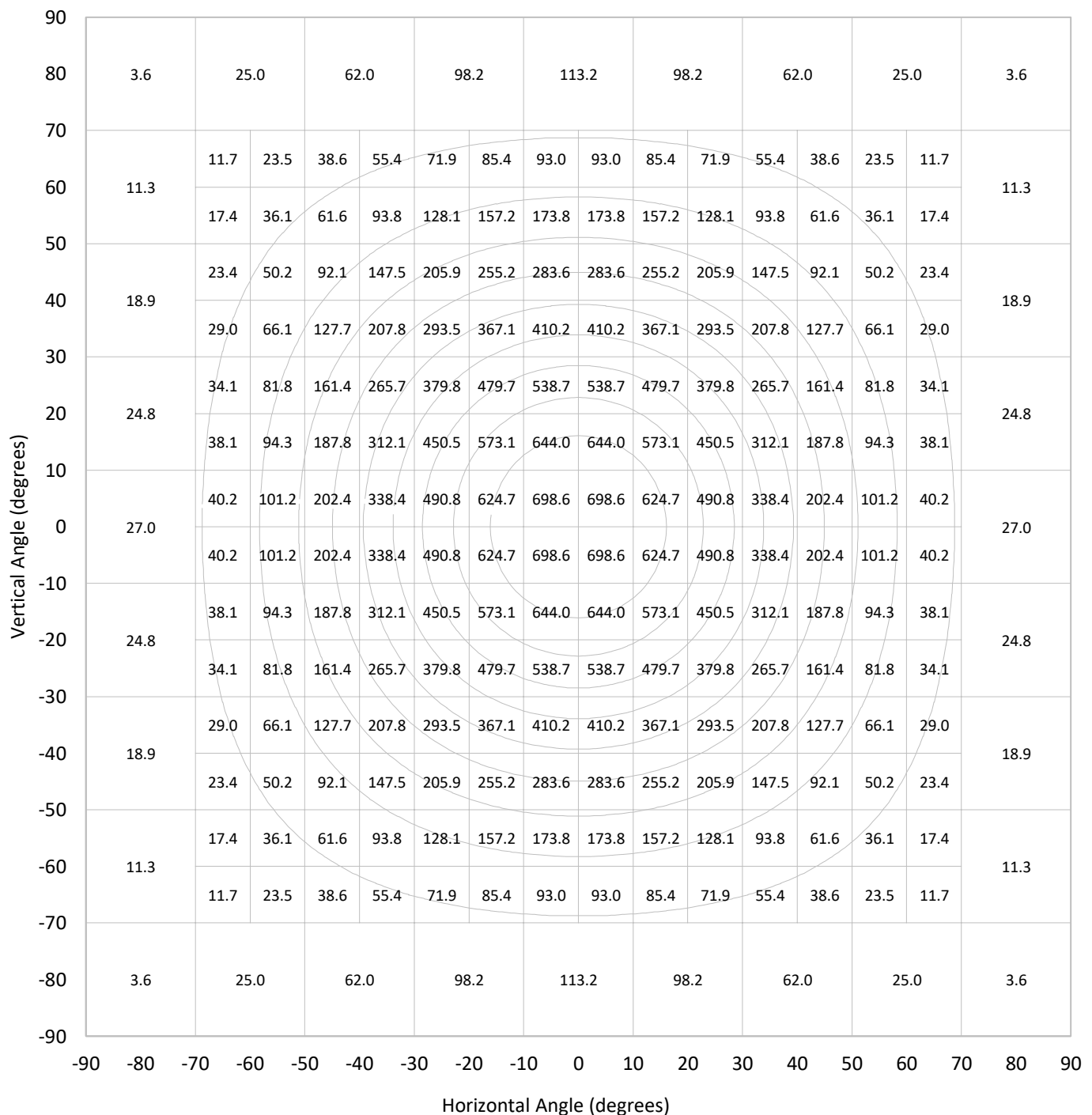
Iso-Candela Plot



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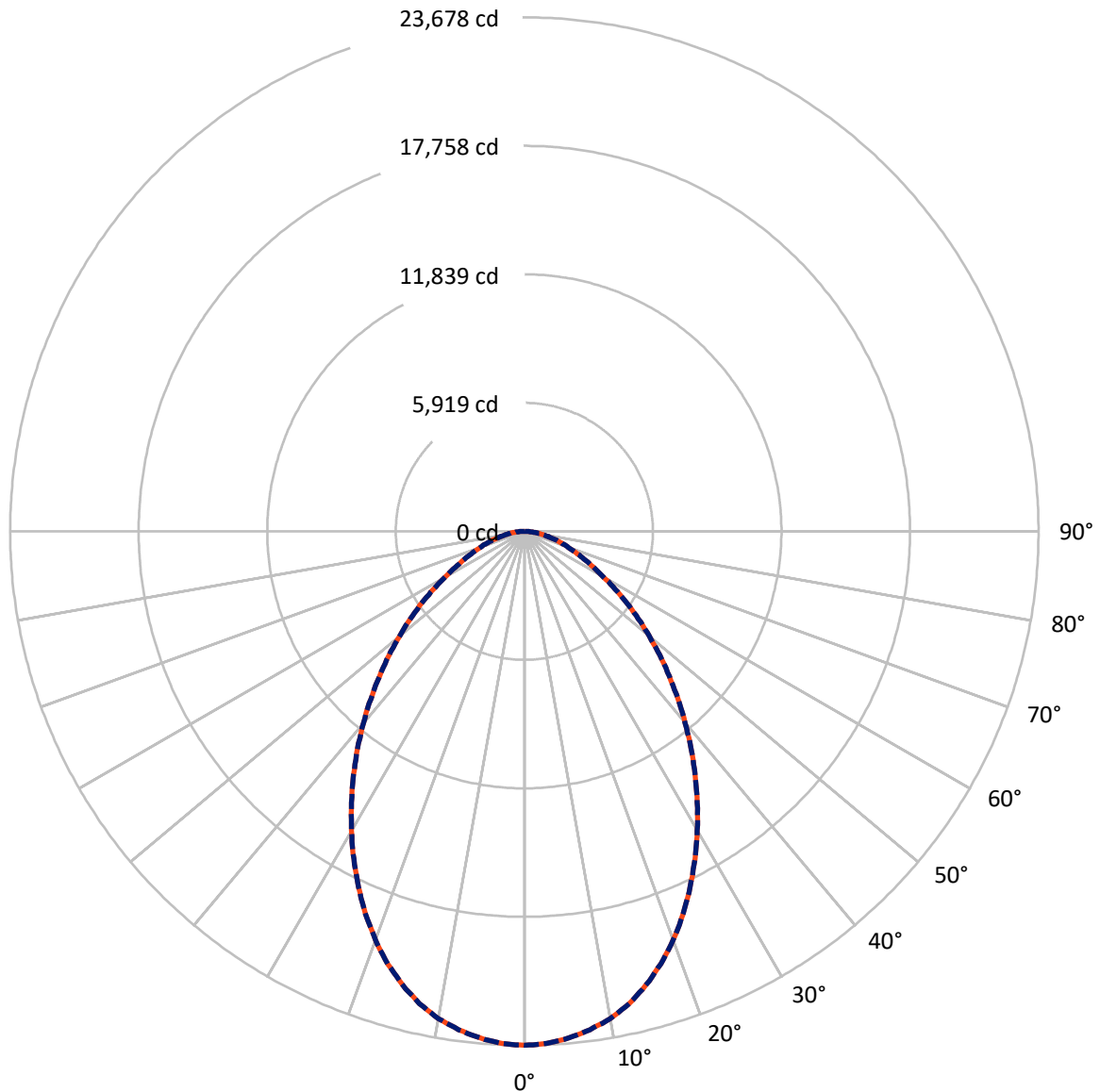
Lumen Table



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Luminous Intensity Polar Plot



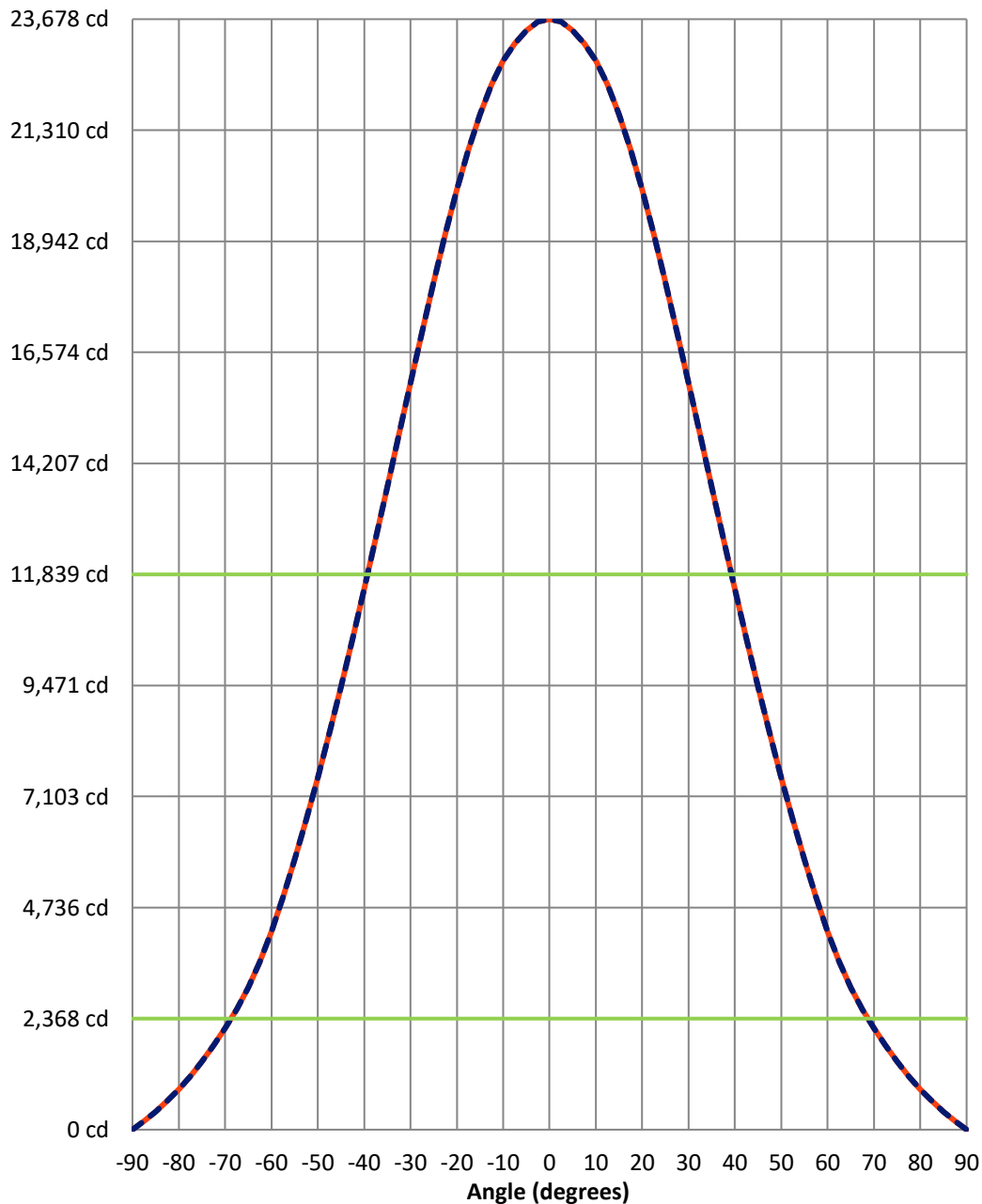
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18446.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 30205.4
Efficiency: 70.9%

Spill:

Lumens: 12426.6
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°	182.2	182.2	182.2	182.2	182.2	182.2	182.2	173.3	173.3	168.9	164.5
85°	382.3	382.3	382.3	382.3	382.3	373.4	368.9	364.5	360.0	351.1	346.7
82.5°	613.4	613.4	613.4	613.4	604.5	595.6	591.2	582.3	573.4	560.0	546.7
80°	857.8	857.8	857.8	857.8	844.5	835.6	822.3	813.4	800.1	782.3	764.5
77.5°	1137.9	1137.9	1137.9	1124.5	1115.6	1102.3	1089.0	1071.2	1053.4	1031.2	1004.5
75°	1453.5	1453.5	1453.5	1435.7	1422.3	1409.0	1386.8	1364.6	1337.9	1306.8	1271.2
72.5°	1795.7	1795.7	1795.7	1773.5	1760.1	1737.9	1711.3	1680.1	1649.0	1609.0	1564.6
70°	2164.6	2164.6	2164.6	2138.0	2115.7	2093.5	2058.0	2022.4	1977.9	1933.5	1880.2
67.5°	2564.7	2564.7	2564.7	2533.5	2506.9	2475.8	2435.8	2391.3	2338.0	2275.7	2213.5
65°	3031.4	3031.4	3013.6	2986.9	2955.8	2911.4	2862.5	2800.2	2733.6	2653.6	2569.1
62.5°	3582.5	3582.5	3555.9	3524.7	3484.7	3427.0	3360.3	3280.3	3186.9	3084.7	2982.5
60°	4222.6	4222.6	4191.5	4151.5	4093.7	4022.6	3933.7	3831.4	3715.9	3587.0	3462.5
57.5°	4960.4	4960.4	4920.4	4867.1	4796.0	4707.1	4595.9	4467.0	4320.4	4160.3	4004.8
55°	5760.5	5760.5	5711.6	5649.4	5564.9	5458.2	5324.9	5173.8	4996.0	4813.7	4613.7
52.5°	6609.4	6609.4	6551.7	6480.5	6382.8	6258.3	6107.2	5929.4	5724.9	5511.6	5276.0
50°	7502.9	7502.9	7436.2	7356.2	7245.1	7098.4	6925.0	6720.6	6493.9	6245.0	5973.8
47.5°	8458.5	8458.5	8382.9	8289.6	8156.2	7987.3	7782.9	7547.3	7289.5	7009.5	6702.8
45°	9440.8	9440.8	9356.3	9249.7	9103.0	8911.9	8685.2	8458.5	8129.6	7805.1	7449.5
42.5°	10463.1	10463.1	10365.3	10245.3	10076.4	9867.5	9609.7	9316.3	8991.9	8627.4	8240.7
40°	11525.4	11525.4	11414.3	11276.5	11089.8	10849.8	10560.9	10232.0	9867.5	9463.0	9036.3
37.5°	12609.9	12609.9	12485.5	12334.4	12125.5	11858.8	11534.3	11169.8	10760.9	10312.0	9840.8
35°	13703.4	13703.4	13565.6	13401.1	13170.0	12876.6	12525.5	12121.0	11667.6	11178.7	10649.8
32.5°	14819.0	14819.0	14667.9	14481.2	14219.0	13894.5	13507.8	13067.8	12609.9	12041.0	11463.2
30°	15921.3	15921.3	15756.9	15552.4	15272.4	14916.8	14494.6	14010.1	13472.2	12890.0	12267.7
27.5°	17005.9	16961.4	16823.6	16605.8	16299.1	15921.3	15463.5	14939.0	14356.8	13716.7	13050.0
25°	18072.6	18023.7	17872.6	17632.6	17303.7	16890.3	16396.9	15836.9	15210.2	14534.6	13805.6
22.5°	19094.9	19041.6	18881.6	18623.8	18272.6	17823.7	17294.8	16694.7	16028.0	15303.5	14534.6
20°	20041.7	19983.9	19819.4	19548.3	19183.8	18708.2	18148.2	17503.7	16792.5	16028.0	15210.2
17.5°	20895.1	20837.3	20664.0	20383.9	20041.7	19512.7	18934.9	18254.9	17503.7	16694.7	15836.9
15°	21646.3	21584.0	21406.2	21126.2	20735.1	20237.3	19628.3	18934.9	18148.2	17294.8	16396.9
12.5°	22286.3	22224.1	22041.9	21761.8	21357.3	20859.5	20237.3	19512.7	18708.2	17823.7	16890.3
10°	22793.0	22730.8	22557.4	22290.8	21872.9	21357.3	20735.1	20041.7	19183.8	18272.6	17303.7
7.5°	23157.5	23099.7	22939.7	22673.0	22290.8	21761.8	21126.2	20383.9	19548.3	18623.8	17632.6
5°	23433.1	23366.4	23206.4	22939.7	22557.4	22041.9	21406.2	20664.0	19819.4	18881.6	17872.6
2.5°	23624.2	23544.2	23366.4	23099.7	22730.8	22224.1	21584.0	20837.3	19983.9	19041.6	18023.7
0°	23677.5	23624.2	23433.1	23157.5	22793.0	22286.3	21646.3	20895.1	20041.7	19094.9	18072.6

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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°	160.0	160.0	155.6	151.1	146.7	137.8	133.3	128.9	124.5	115.6	111.1
85°	337.8	328.9	320.0	311.1	297.8	288.9	275.6	266.7	253.4	240.0	226.7
82.5°	533.4	520.0	502.3	488.9	471.2	448.9	431.1	408.9	386.7	368.9	346.7
80°	746.7	724.5	702.3	680.1	653.4	626.7	600.1	573.4	542.3	511.2	480.0
77.5°	977.9	946.7	915.6	880.1	849.0	813.4	777.8	742.3	702.3	662.3	622.3
75°	1235.7	1195.7	1151.2	1106.8	1066.8	1017.9	969.0	920.1	866.7	817.8	764.5
72.5°	1515.7	1466.8	1413.5	1360.1	1302.3	1240.1	1177.9	1111.2	1049.0	986.7	920.1
70°	1817.9	1760.1	1693.5	1626.8	1555.7	1480.1	1404.6	1324.6	1244.5	1164.5	1084.5
67.5°	2142.4	2071.3	1991.3	1911.3	1822.4	1733.5	1644.6	1551.2	1453.5	1355.7	1262.3
65°	2489.1	2400.2	2306.9	2204.6	2102.4	2000.2	1893.5	1782.4	1671.3	1555.7	1453.5
62.5°	2875.8	2764.7	2644.7	2520.2	2404.6	2280.2	2164.6	2026.8	1893.5	1764.6	1635.7
60°	3324.7	3178.0	3031.4	2875.8	2729.1	2569.1	2426.9	2275.7	2124.6	1977.9	1826.8
57.5°	3827.0	3640.3	3462.5	3275.8	3080.3	2902.5	2720.2	2538.0	2369.1	2195.7	2031.3
55°	4395.9	4169.2	3947.0	3715.9	3489.2	3266.9	3035.8	2831.3	2622.4	2426.9	2235.7
52.5°	5018.2	4760.4	4484.8	4222.6	3933.7	3658.1	3400.3	3142.5	2898.0	2662.4	2444.6
50°	5684.9	5382.7	5067.1	4747.1	4418.1	4093.7	3782.5	3480.3	3195.8	2920.2	2662.4
47.5°	6378.3	6036.1	5676.0	5311.6	4960.4	4564.8	4191.5	3849.2	3507.0	3195.8	2898.0
45°	7089.5	6702.8	6307.2	5893.8	5480.5	5053.8	4640.4	4222.6	3849.2	3480.3	3142.5
42.5°	7822.9	7387.3	6947.2	6489.4	6031.6	5564.9	5098.2	4640.4	4191.5	3782.5	3400.3
40°	8578.5	8098.5	7596.2	7098.4	6609.4	6076.1	5564.9	5053.8	4564.8	4093.7	3658.1
37.5°	9334.1	8809.6	8267.4	7707.3	7147.3	6609.4	6031.6	5480.5	4960.4	4418.1	3933.7
35°	10094.2	9516.4	8929.6	8320.7	7707.3	7098.4	6489.4	5893.8	5311.6	4747.1	4222.6
32.5°	10858.7	10227.5	9578.6	8929.6	8267.4	7596.2	6947.2	6307.2	5676.0	5067.1	4484.8
30°	11609.9	10925.4	10227.5	9516.4	8809.6	8098.5	7387.3	6702.8	6036.1	5382.7	4760.4
27.5°	12343.3	11609.9	10858.7	10094.2	9334.1	8578.5	7822.9	7089.5	6378.3	5684.9	5018.2
25°	13050.0	12267.7	11463.2	10649.8	9840.8	9036.3	8240.7	7449.5	6702.8	5973.8	5276.0
22.5°	13716.7	12890.0	12041.0	11178.7	10312.0	9463.0	8627.4	7805.1	7009.5	6245.0	5511.6
20°	14356.8	13472.2	12609.9	11667.6	10760.9	9867.5	8991.9	8129.6	7289.5	6493.9	5724.9
17.5°	14939.0	14010.1	13067.8	12121.0	11169.8	10232.0	9316.3	8458.5	7547.3	6720.6	5929.4
15°	15463.5	14494.6	13507.8	12525.5	11534.3	10560.9	9609.7	8685.2	7782.9	6925.0	6107.2
12.5°	15921.3	14916.8	13894.5	12876.6	11858.8	10849.8	9867.5	8911.9	7987.3	7098.4	6258.3
10°	16299.1	15272.4	14219.0	13170.0	12125.5	11089.8	10076.4	9103.0	8156.2	7245.1	6382.8
7.5°	16605.8	15552.4	14481.2	13401.1	12334.4	11276.5	10245.3	9249.7	8289.6	7356.2	6480.5
5°	16823.6	15756.9	14667.9	13565.6	12485.5	11414.3	10365.3	9356.3	8382.9	7436.2	6551.7
2.5°	16961.4	15921.3	14819.0	13703.4	12609.9	11525.4	10463.1	9440.8	8458.5	7502.9	6609.4
0°	17005.9	15921.3	14819.0	13703.4	12609.9	11525.4	10463.1	9440.8	8458.5	7502.9	6609.4

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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°	106.7	97.8	88.9	84.5	75.6	71.1	62.2	53.3	48.9	40.0	31.1
85°	213.4	195.6	182.2	168.9	155.6	137.8	124.5	111.1	93.3	80.0	62.2
82.5°	324.5	302.2	280.0	257.8	235.6	213.4	186.7	164.5	142.2	120.0	93.3
80°	448.9	413.4	382.3	351.1	320.0	288.9	253.4	222.2	186.7	155.6	124.5
77.5°	577.8	537.8	493.4	448.9	404.5	364.5	320.0	280.0	240.0	195.6	155.6
75°	715.6	662.3	613.4	555.6	502.3	444.5	391.1	337.8	288.9	240.0	186.7
72.5°	857.8	791.2	724.5	662.3	595.6	528.9	466.7	400.0	337.8	280.0	222.2
70°	1004.5	924.5	844.5	769.0	693.4	613.4	542.3	466.7	391.1	320.0	253.4
67.5°	1160.1	1066.8	973.4	875.6	791.2	702.3	613.4	528.9	444.5	364.5	288.9
65°	1329.0	1217.9	1102.3	1000.1	889.0	791.2	693.4	595.6	502.3	404.5	320.0
62.5°	1502.3	1373.4	1244.5	1115.6	1000.1	875.6	769.0	662.3	555.6	448.9	351.1
60°	1680.1	1533.5	1386.8	1244.5	1102.3	973.4	844.5	724.5	613.4	493.4	382.3
57.5°	1862.4	1697.9	1533.5	1373.4	1217.9	1066.8	924.5	791.2	662.3	537.8	413.4
55°	2049.1	1862.4	1680.1	1502.3	1329.0	1160.1	1004.5	857.8	715.6	577.8	448.9
52.5°	2235.7	2031.3	1826.8	1635.7	1453.5	1262.3	1084.5	920.1	764.5	622.3	480.0
50°	2426.9	2195.7	1977.9	1764.6	1555.7	1355.7	1164.5	986.7	817.8	662.3	511.2
47.5°	2622.4	2369.1	2124.6	1893.5	1671.3	1453.5	1244.5	1049.0	866.7	702.3	542.3
45°	2831.3	2538.0	2275.7	2026.8	1782.4	1551.2	1324.6	1111.2	920.1	742.3	573.4
42.5°	3035.8	2720.2	2426.9	2164.6	1893.5	1644.6	1404.6	1177.9	969.0	777.8	600.1
40°	3266.9	2902.5	2569.1	2280.2	2000.2	1733.5	1480.1	1240.1	1017.9	813.4	626.7
37.5°	3489.2	3080.3	2729.1	2404.6	2102.4	1822.4	1555.7	1302.3	1066.8	849.0	653.4
35°	3715.9	3275.8	2875.8	2520.2	2204.6	1911.3	1626.8	1360.1	1106.8	880.1	680.1
32.5°	3947.0	3462.5	3031.4	2644.7	2306.9	1991.3	1693.5	1413.5	1151.2	915.6	702.3
30°	4169.2	3640.3	3178.0	2764.7	2400.2	2071.3	1760.1	1466.8	1195.7	946.7	724.5
27.5°	4395.9	3827.0	3324.7	2875.8	2489.1	2142.4	1817.9	1515.7	1235.7	977.9	746.7
25°	4613.7	4004.8	3462.5	2982.5	2569.1	2213.5	1880.2	1564.6	1271.2	1004.5	764.5
22.5°	4813.7	4160.3	3587.0	3084.7	2653.6	2275.7	1933.5	1609.0	1306.8	1031.2	782.3
20°	4996.0	4320.4	3715.9	3186.9	2733.6	2338.0	1977.9	1649.0	1337.9	1053.4	800.1
17.5°	5173.8	4467.0	3831.4	3280.3	2800.2	2391.3	2022.4	1680.1	1364.6	1071.2	813.4
15°	5324.9	4595.9	3933.7	3360.3	2862.5	2435.8	2058.0	1711.3	1386.8	1089.0	822.3
12.5°	5458.2	4707.1	4022.6	3427.0	2911.4	2475.8	2093.5	1737.9	1409.0	1102.3	835.6
10°	5564.9	4796.0	4093.7	3484.7	2955.8	2506.9	2115.7	1760.1	1422.3	1115.6	844.5
7.5°	5649.4	4867.1	4151.5	3524.7	2986.9	2533.5	2138.0	1773.5	1435.7	1124.5	857.8
5°	5711.6	4920.4	4191.5	3555.9	3013.6	2564.7	2164.6	1795.7	1453.5	1137.9	857.8
2.5°	5760.5	4960.4	4222.6	3582.5	3031.4	2564.7	2164.6	1795.7	1453.5	1137.9	857.8
0°	5760.5	4960.4	4222.6	3582.5	3031.4	2564.7	2164.6	1795.7	1453.5	1137.9	857.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.2	17.8	8.9	0.0
85°	48.9	31.1	17.8	0.0
82.5°	71.1	48.9	22.2	0.0
80°	93.3	62.2	31.1	0.0
77.5°	120.0	80.0	40.0	0.0
75°	142.2	93.3	48.9	0.0
72.5°	164.5	111.1	53.3	0.0
70°	186.7	124.5	62.2	0.0
67.5°	213.4	137.8	71.1	0.0
65°	235.6	155.6	75.6	0.0
62.5°	257.8	168.9	84.5	0.0
60°	280.0	182.2	88.9	0.0
57.5°	302.2	195.6	97.8	0.0
55°	324.5	213.4	106.7	0.0
52.5°	346.7	226.7	111.1	0.0
50°	368.9	240.0	115.6	0.0
47.5°	386.7	253.4	124.5	0.0
45°	408.9	266.7	128.9	0.0
42.5°	431.1	275.6	133.3	0.0
40°	448.9	288.9	137.8	0.0
37.5°	471.2	297.8	146.7	0.0
35°	488.9	311.1	151.1	0.0
32.5°	502.3	320.0	155.6	0.0
30°	520.0	328.9	160.0	0.0
27.5°	533.4	337.8	160.0	0.0
25°	546.7	346.7	164.5	0.0
22.5°	560.0	351.1	168.9	0.0
20°	573.4	360.0	173.3	0.0
17.5°	582.3	364.5	173.3	0.0
15°	591.2	368.9	182.2	0.0
12.5°	595.6	373.4	182.2	0.0
10°	604.5	382.3	182.2	0.0
7.5°	613.4	382.3	182.2	0.0
5°	613.4	382.3	182.2	0.0
2.5°	613.4	382.3	182.2	0.0
0°	613.4	382.3	182.2	0.0

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