

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: P623939

Luminaire Tested: **IFLD-S-SA6C-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623939
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

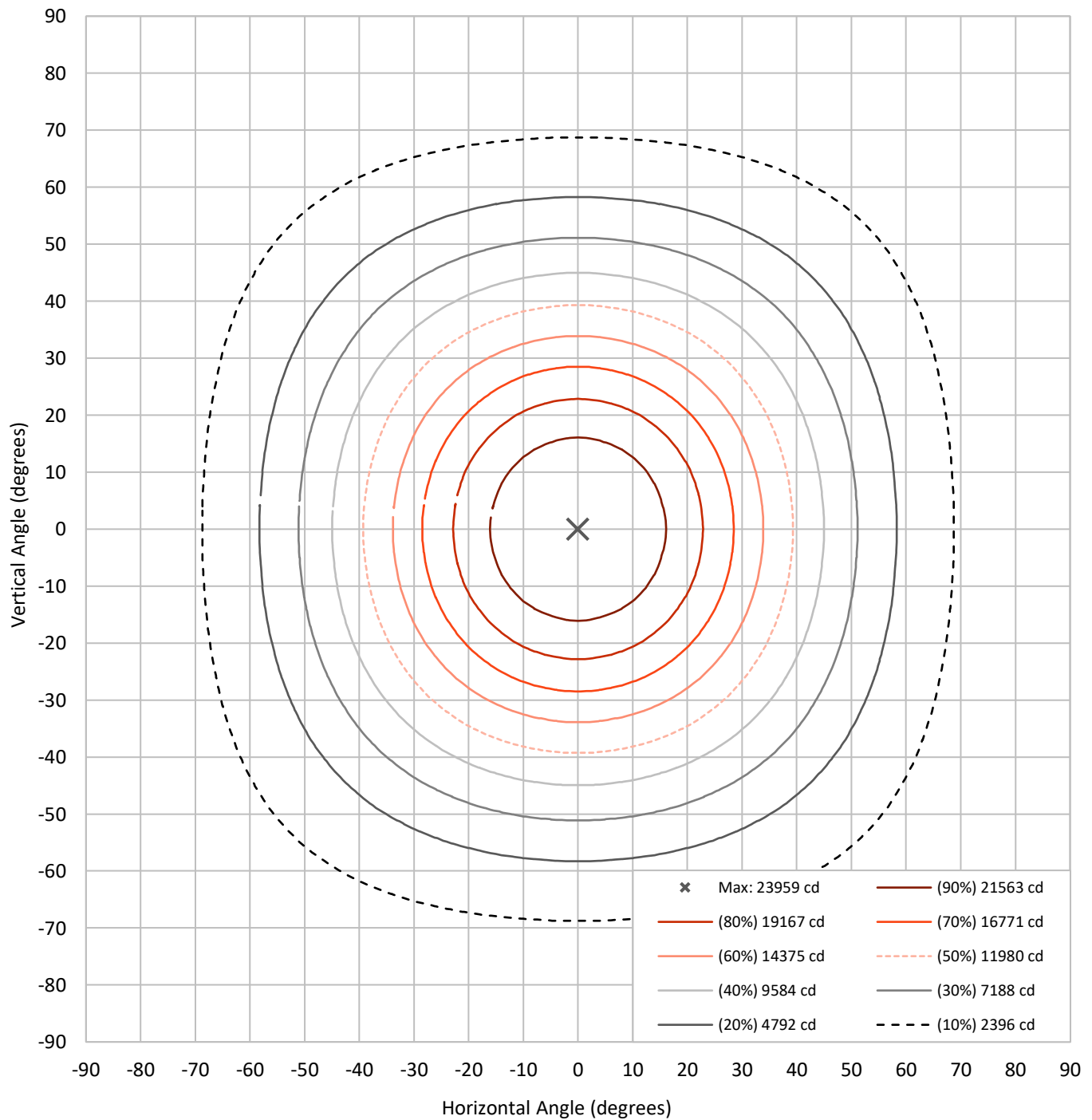
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43138.7 lumens	Max Intensity:	23959 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	18665.7 lumens	Field Lumens:	30564.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	321.5		
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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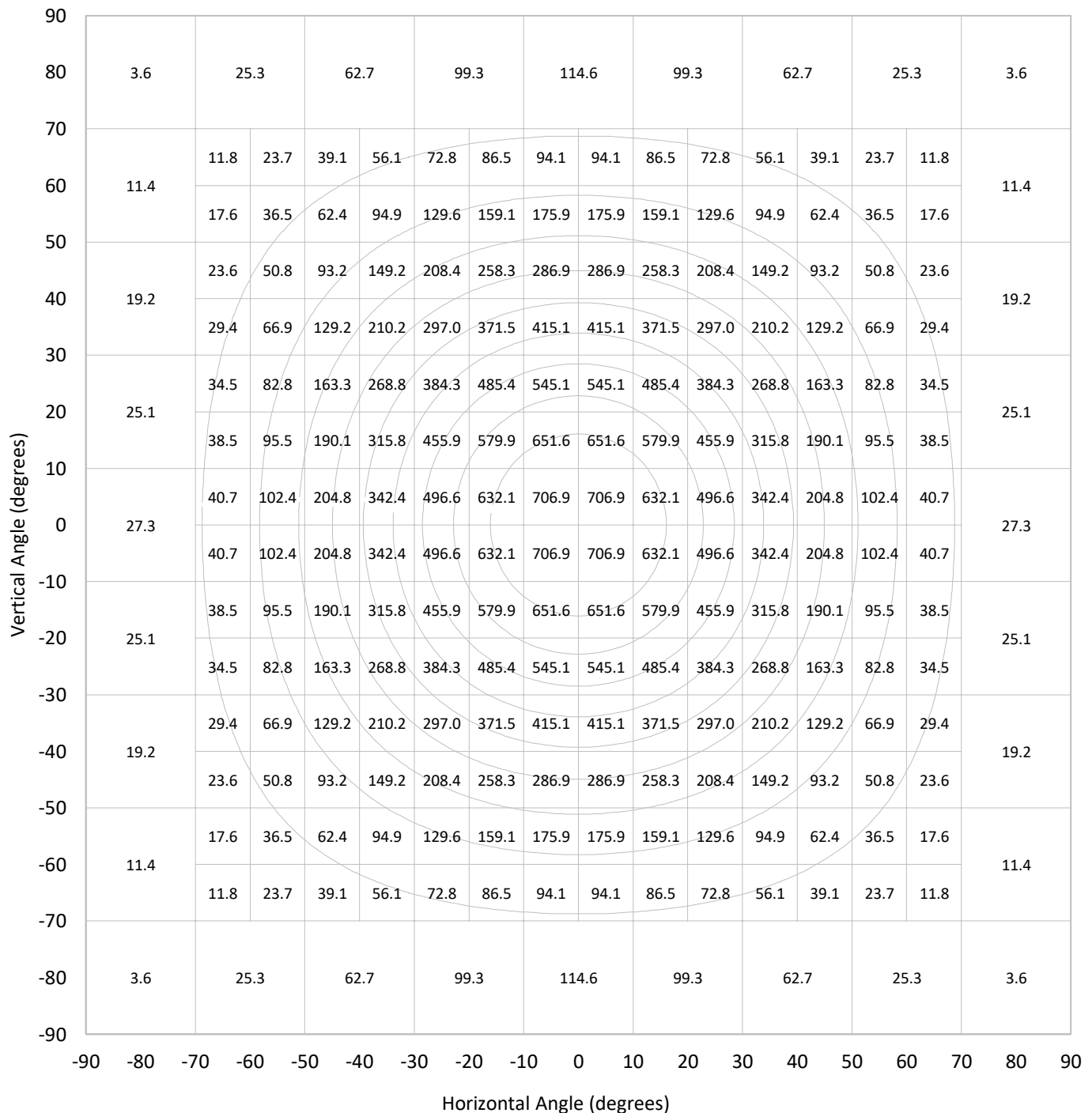
Iso-Candela Plot



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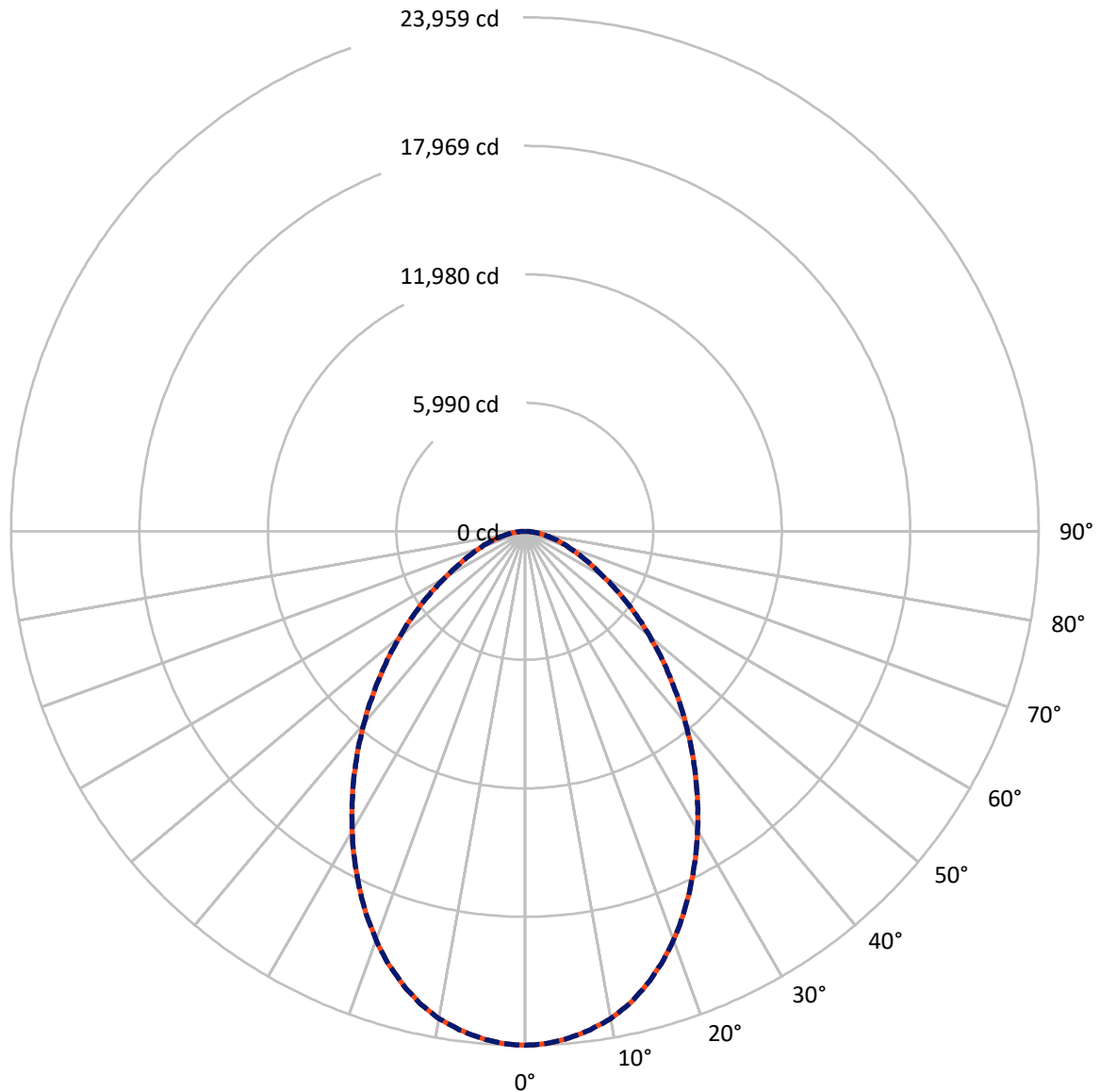
Lumen Table



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Luminous Intensity Polar Plot



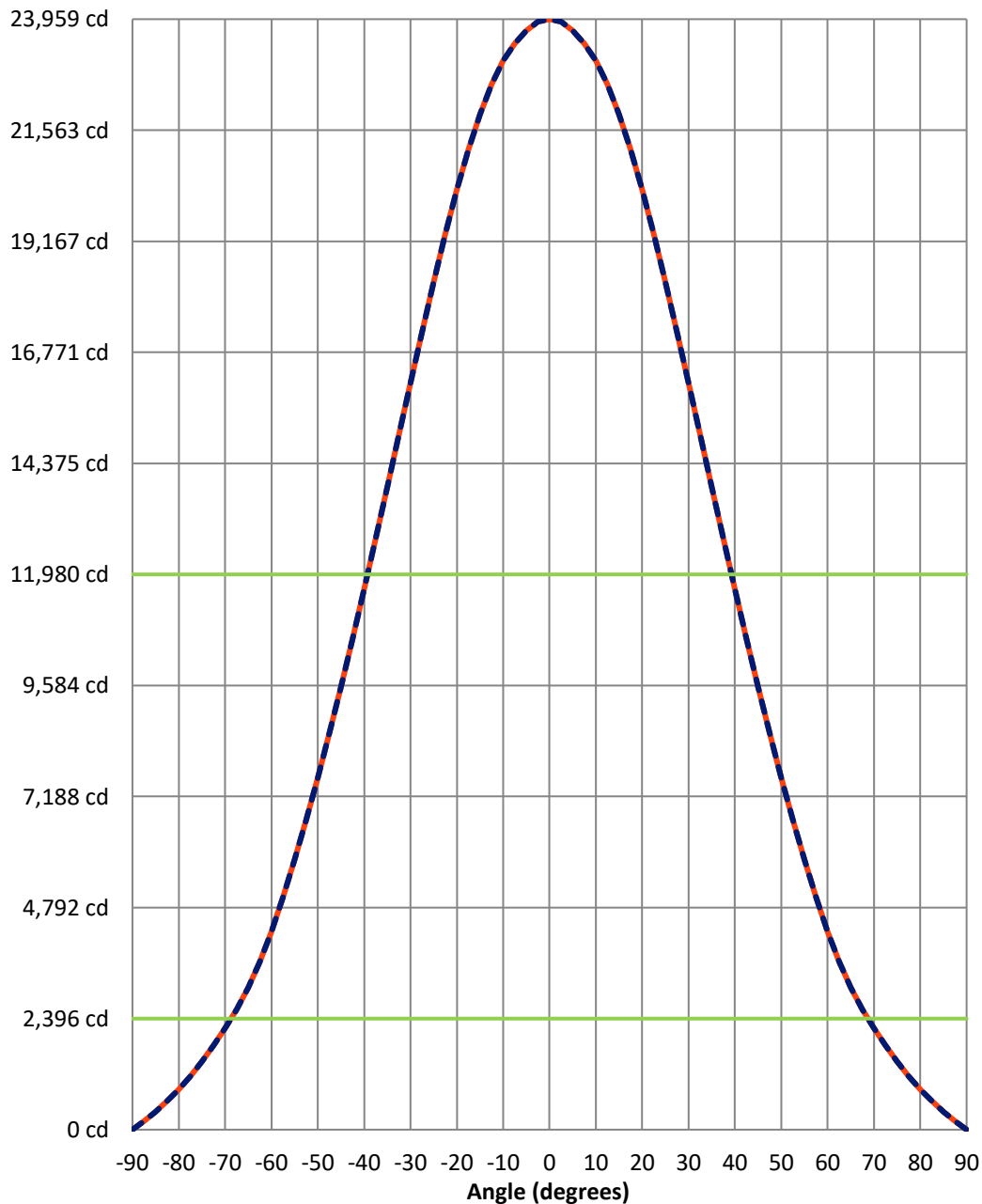
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18665.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 30564.4
Efficiency: 70.9%

Spill:

Lumens: 12574.3
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°	184.4	184.4	184.4	184.4	184.4	184.4	184.4	175.4	175.4	170.9	166.4
85°	386.8	386.8	386.8	386.8	386.8	377.8	373.3	368.8	364.3	355.3	350.8
82.5°	620.7	620.7	620.7	620.7	611.7	602.7	598.2	589.2	580.2	566.7	553.2
80°	868.0	868.0	868.0	868.0	854.6	845.6	832.1	823.1	809.6	791.6	773.6
77.5°	1151.4	1151.4	1151.4	1137.9	1128.9	1115.4	1101.9	1083.9	1065.9	1043.5	1016.5
75°	1470.7	1470.7	1470.7	1452.7	1439.2	1425.8	1403.3	1380.8	1353.8	1322.3	1286.3
72.5°	1817.1	1817.1	1817.1	1794.6	1781.1	1758.6	1731.6	1700.1	1668.6	1628.1	1583.2
70°	2190.4	2190.4	2190.4	2163.4	2140.9	2118.4	2082.4	2046.4	2001.5	1956.5	1902.5
67.5°	2595.1	2595.1	2595.1	2563.7	2536.7	2505.2	2464.7	2419.7	2365.8	2302.8	2239.8
65°	3067.4	3067.4	3049.4	3022.4	2990.9	2946.0	2896.5	2833.5	2766.1	2685.1	2599.6
62.5°	3625.1	3625.1	3598.1	3566.6	3526.2	3467.7	3400.2	3319.3	3224.8	3121.4	3017.9
60°	4272.8	4272.8	4241.3	4200.8	4142.3	4070.4	3980.4	3877.0	3760.0	3629.6	3503.7
57.5°	5019.4	5019.4	4978.9	4924.9	4853.0	4763.0	4650.6	4520.1	4371.7	4209.8	4052.4
55°	5829.0	5829.0	5779.5	5716.5	5631.1	5523.1	5388.2	5235.3	5055.4	4871.0	4668.6
52.5°	6688.0	6688.0	6629.5	6557.6	6458.6	6332.7	6179.8	5999.9	5793.0	5577.1	5338.7
50°	7592.0	7592.0	7524.6	7443.6	7331.2	7182.7	7007.3	6800.4	6571.1	6319.2	6044.8
47.5°	8559.0	8559.0	8482.6	8388.1	8253.2	8082.3	7875.4	7637.0	7376.1	7092.8	6782.5
45°	9553.0	9553.0	9467.6	9359.6	9211.2	9017.8	8788.4	8559.0	8226.2	7897.9	7538.1
42.5°	10587.5	10587.5	10488.5	10367.1	10196.2	9984.8	9723.9	9427.1	9098.7	8729.9	8338.6
40°	11662.4	11662.4	11550.0	11410.5	11221.6	10978.8	10686.4	10353.6	9984.8	9575.5	9143.7
37.5°	12759.8	12759.8	12633.9	12481.0	12269.6	11999.7	11671.4	11302.6	10888.8	10434.5	9957.8
35°	13866.3	13866.3	13726.8	13560.4	13326.5	13029.7	12674.4	12265.1	11806.3	11311.6	10776.4
32.5°	14995.2	14995.2	14842.2	14653.3	14388.0	14059.7	13668.4	13223.1	12759.8	12184.1	11599.4
30°	16110.6	16110.6	15944.2	15737.3	15453.9	15094.1	14666.8	14176.6	13632.4	13043.2	12413.5
27.5°	17208.0	17163.0	17023.6	16803.2	16492.9	16110.6	15647.3	15116.6	14527.4	13879.7	13205.1
25°	18287.4	18238.0	18085.1	17842.2	17509.4	17091.1	16591.8	16025.1	15391.0	14707.3	13969.7
22.5°	19321.9	19267.9	19106.0	18845.2	18489.8	18035.6	17500.4	16893.2	16218.5	15485.4	14707.3
20°	20279.9	20221.4	20055.0	19780.7	19411.9	18930.6	18363.9	17711.7	16992.1	16218.5	15391.0
17.5°	21143.5	21085.0	20909.6	20626.2	20279.9	19744.7	19160.0	18471.9	17711.7	16893.2	16025.1
15°	21903.6	21840.6	21660.7	21377.3	20981.5	20477.8	19861.6	19160.0	18363.9	17500.4	16591.8
12.5°	22551.2	22488.3	22303.8	22020.5	21611.2	21107.5	20477.8	19744.7	18930.6	18035.6	17091.1
10°	23064.0	23001.0	22825.6	22555.7	22132.9	21611.2	20981.5	20279.9	19411.9	18489.8	17509.4
7.5°	23432.8	23374.3	23212.4	22942.5	22555.7	22020.5	21377.3	20626.2	19780.7	18845.2	17842.2
5°	23711.6	23644.1	23482.2	23212.4	22825.6	22303.8	21660.7	20909.6	20055.0	19106.0	18085.1
2.5°	23905.0	23824.1	23644.1	23374.3	23001.0	22488.3	21840.6	21085.0	20221.4	19267.9	18238.0
0°	23959.0	23905.0	23711.6	23432.8	23064.0	22551.2	21903.6	21143.5	20279.9	19321.9	18287.4



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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°	161.9	161.9	157.4	152.9	148.4	139.4	134.9	130.4	125.9	116.9	112.4
85°	341.8	332.8	323.8	314.8	301.3	292.3	278.9	269.9	256.4	242.9	229.4
82.5°	539.7	526.2	508.2	494.7	476.8	454.3	436.3	413.8	391.3	373.3	350.8
80°	755.6	733.1	710.6	688.1	661.2	634.2	607.2	580.2	548.7	517.2	485.7
77.5°	989.5	958.0	926.5	890.5	859.1	823.1	787.1	751.1	710.6	670.1	629.7
75°	1250.3	1209.9	1164.9	1119.9	1079.4	1030.0	980.5	931.0	877.0	827.6	773.6
72.5°	1533.7	1484.2	1430.3	1376.3	1317.8	1254.8	1191.9	1124.4	1061.4	998.5	931.0
70°	1839.5	1781.1	1713.6	1646.1	1574.2	1497.7	1421.3	1340.3	1259.3	1178.4	1097.4
67.5°	2167.9	2095.9	2014.9	1934.0	1844.0	1754.1	1664.1	1569.7	1470.7	1371.8	1277.3
65°	2518.7	2428.7	2334.3	2230.8	2127.4	2023.9	1916.0	1803.6	1691.1	1574.2	1470.7
62.5°	2910.0	2797.5	2676.1	2550.2	2433.2	2307.3	2190.4	2050.9	1916.0	1785.6	1655.1
60°	3364.2	3215.8	3067.4	2910.0	2761.6	2599.6	2455.7	2302.8	2149.9	2001.5	1848.5
57.5°	3872.5	3683.6	3503.7	3314.8	3116.9	2937.0	2752.6	2568.2	2397.2	2221.8	2055.4
55°	4448.2	4218.8	3993.9	3760.0	3530.7	3305.8	3071.9	2865.0	2653.6	2455.7	2262.3
52.5°	5077.8	4817.0	4538.1	4272.8	3980.4	3701.6	3440.7	3179.8	2932.5	2694.1	2473.7
50°	5752.5	5446.7	5127.3	4803.5	4470.7	4142.3	3827.5	3521.7	3233.8	2955.0	2694.1
47.5°	6454.1	6107.8	5743.5	5374.7	5019.4	4619.1	4241.3	3895.0	3548.6	3233.8	2932.5
45°	7173.8	6782.5	6382.2	5963.9	5545.6	5113.8	4695.5	4272.8	3895.0	3521.7	3179.8
42.5°	7915.9	7475.1	7029.8	6566.6	6103.3	5631.1	5158.8	4695.5	4241.3	3827.5	3440.7
40°	8680.5	8194.7	7686.5	7182.7	6688.0	6148.3	5631.1	5113.8	4619.1	4142.3	3701.6
37.5°	9445.1	8914.3	8365.6	7798.9	7232.2	6688.0	6103.3	5545.6	5019.4	4470.7	3980.4
35°	10214.2	9629.5	9035.8	8419.6	7798.9	7182.7	6566.6	5963.9	5374.7	4803.5	4272.8
32.5°	10987.8	10349.1	9692.4	9035.8	8365.6	7686.5	7029.8	6382.2	5743.5	5127.3	4538.1
30°	11747.9	11055.2	10349.1	9629.5	8914.3	8194.7	7475.1	6782.5	6107.8	5446.7	4817.0
27.5°	12490.0	11747.9	10987.8	10214.2	9445.1	8680.5	7915.9	7173.8	6454.1	5752.5	5077.8
25°	13205.1	12413.5	11599.4	10776.4	9957.8	9143.7	8338.6	7538.1	6782.5	6044.8	5338.7
22.5°	13879.7	13043.2	12184.1	11311.6	10434.5	9575.5	8729.9	7897.9	7092.8	6319.2	5577.1
20°	14527.4	13632.4	12759.8	11806.3	10888.8	9984.8	9098.7	8226.2	7376.1	6571.1	5793.0
17.5°	15116.6	14176.6	13223.1	12265.1	11302.6	10353.6	9427.1	8559.0	7637.0	6800.4	5999.9
15°	15647.3	14666.8	13668.4	12674.4	11671.4	10686.4	9723.9	8788.4	7875.4	7007.3	6179.8
12.5°	16110.6	15094.1	14059.7	13029.7	11999.7	10978.8	9984.8	9017.8	8082.3	7182.7	6332.7
10°	16492.9	15453.9	14388.0	13326.5	12269.6	11221.6	10196.2	9211.2	8253.2	7331.2	6458.6
7.5°	16803.2	15737.3	14653.3	13560.4	12481.0	11410.5	10367.1	9359.6	8388.1	7443.6	6557.6
5°	17023.6	15944.2	14842.2	13726.8	12633.9	11550.0	10488.5	9467.6	8482.6	7524.6	6629.5
2.5°	17163.0	16110.6	14995.2	13866.3	12759.8	11662.4	10587.5	9553.0	8559.0	7592.0	6688.0
0°	17208.0	16110.6	14995.2	13866.3	12759.8	11662.4	10587.5	9553.0	8559.0	7592.0	6688.0

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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°	107.9	98.9	90.0	85.5	76.5	72.0	63.0	54.0	49.5	40.5	31.5
85°	215.9	197.9	184.4	170.9	157.4	139.4	125.9	112.4	94.5	81.0	63.0
82.5°	328.3	305.8	283.4	260.9	238.4	215.9	188.9	166.4	143.9	121.4	94.5
80°	454.3	418.3	386.8	355.3	323.8	292.3	256.4	224.9	188.9	157.4	125.9
77.5°	584.7	544.2	499.2	454.3	409.3	368.8	323.8	283.4	242.9	197.9	157.4
75°	724.1	670.1	620.7	562.2	508.2	449.8	395.8	341.8	292.3	242.9	188.9
72.5°	868.0	800.6	733.1	670.1	602.7	535.2	472.3	404.8	341.8	283.4	224.9
70°	1016.5	935.5	854.6	778.1	701.6	620.7	548.7	472.3	395.8	323.8	256.4
67.5°	1173.9	1079.4	985.0	886.0	800.6	710.6	620.7	535.2	449.8	368.8	292.3
65°	1344.8	1232.4	1115.4	1012.0	899.5	800.6	701.6	602.7	508.2	409.3	323.8
62.5°	1520.2	1389.8	1259.3	1128.9	1012.0	886.0	778.1	670.1	562.2	454.3	355.3
60°	1700.1	1551.7	1403.3	1259.3	1115.4	985.0	854.6	733.1	620.7	499.2	386.8
57.5°	1884.5	1718.1	1551.7	1389.8	1232.4	1079.4	935.5	800.6	670.1	544.2	418.3
55°	2073.4	1884.5	1700.1	1520.2	1344.8	1173.9	1016.5	868.0	724.1	584.7	454.3
52.5°	2262.3	2055.4	1848.5	1655.1	1470.7	1277.3	1097.4	931.0	773.6	629.7	485.7
50°	2455.7	2221.8	2001.5	1785.6	1574.2	1371.8	1178.4	998.5	827.6	670.1	517.2
47.5°	2653.6	2397.2	2149.9	1916.0	1691.1	1470.7	1259.3	1061.4	877.0	710.6	548.7
45°	2865.0	2568.2	2302.8	2050.9	1803.6	1569.7	1340.3	1124.4	931.0	751.1	580.2
42.5°	3071.9	2752.6	2455.7	2190.4	1916.0	1664.1	1421.3	1191.9	980.5	787.1	607.2
40°	3305.8	2937.0	2599.6	2307.3	2023.9	1754.1	1497.7	1254.8	1030.0	823.1	634.2
37.5°	3530.7	3116.9	2761.6	2433.2	2127.4	1844.0	1574.2	1317.8	1079.4	859.1	661.2
35°	3760.0	3314.8	2910.0	2550.2	2230.8	1934.0	1646.1	1376.3	1119.9	890.5	688.1
32.5°	3993.9	3503.7	3067.4	2676.1	2334.3	2014.9	1713.6	1430.3	1164.9	926.5	710.6
30°	4218.8	3683.6	3215.8	2797.5	2428.7	2095.9	1781.1	1484.2	1209.9	958.0	733.1
27.5°	4448.2	3872.5	3364.2	2910.0	2518.7	2167.9	1839.5	1533.7	1250.3	989.5	755.6
25°	4668.6	4052.4	3503.7	3017.9	2599.6	2239.8	1902.5	1583.2	1286.3	1016.5	773.6
22.5°	4871.0	4209.8	3629.6	3121.4	2685.1	2302.8	1956.5	1628.1	1322.3	1043.5	791.6
20°	5055.4	4371.7	3760.0	3224.8	2766.1	2365.8	2001.5	1668.6	1353.8	1065.9	809.6
17.5°	5235.3	4520.1	3877.0	3319.3	2833.5	2419.7	2046.4	1700.1	1380.8	1083.9	823.1
15°	5388.2	4650.6	3980.4	3400.2	2896.5	2464.7	2082.4	1731.6	1403.3	1101.9	832.1
12.5°	5523.1	4763.0	4070.4	3467.7	2946.0	2505.2	2118.4	1758.6	1425.8	1115.4	845.6
10°	5631.1	4853.0	4142.3	3526.2	2990.9	2536.7	2140.9	1781.1	1439.2	1128.9	854.6
7.5°	5716.5	4924.9	4200.8	3566.6	3022.4	2563.7	2163.4	1794.6	1452.7	1137.9	868.0
5°	5779.5	4978.9	4241.3	3598.1	3049.4	2595.1	2190.4	1817.1	1470.7	1151.4	868.0
2.5°	5829.0	5019.4	4272.8	3625.1	3067.4	2595.1	2190.4	1817.1	1470.7	1151.4	868.0
0°	5829.0	5019.4	4272.8	3625.1	3067.4	2595.1	2190.4	1817.1	1470.7	1151.4	868.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.5	18.0	9.0	0.0
85°	49.5	31.5	18.0	0.0
82.5°	72.0	49.5	22.5	0.0
80°	94.5	63.0	31.5	0.0
77.5°	121.4	81.0	40.5	0.0
75°	143.9	94.5	49.5	0.0
72.5°	166.4	112.4	54.0	0.0
70°	188.9	125.9	63.0	0.0
67.5°	215.9	139.4	72.0	0.0
65°	238.4	157.4	76.5	0.0
62.5°	260.9	170.9	85.5	0.0
60°	283.4	184.4	90.0	0.0
57.5°	305.8	197.9	98.9	0.0
55°	328.3	215.9	107.9	0.0
52.5°	350.8	229.4	112.4	0.0
50°	373.3	242.9	116.9	0.0
47.5°	391.3	256.4	125.9	0.0
45°	413.8	269.9	130.4	0.0
42.5°	436.3	278.9	134.9	0.0
40°	454.3	292.3	139.4	0.0
37.5°	476.8	301.3	148.4	0.0
35°	494.7	314.8	152.9	0.0
32.5°	508.2	323.8	157.4	0.0
30°	526.2	332.8	161.9	0.0
27.5°	539.7	341.8	161.9	0.0
25°	553.2	350.8	166.4	0.0
22.5°	566.7	355.3	170.9	0.0
20°	580.2	364.3	175.4	0.0
17.5°	589.2	368.8	175.4	0.0
15°	598.2	373.3	184.4	0.0
12.5°	602.7	377.8	184.4	0.0
10°	611.7	386.8	184.4	0.0
7.5°	620.7	386.8	184.4	0.0
5°	620.7	386.8	184.4	0.0
2.5°	620.7	386.8	184.4	0.0
0°	620.7	386.8	184.4	0.0

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