

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: P623825

Luminaire Tested: **IFLD-S-SA6E-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623825
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

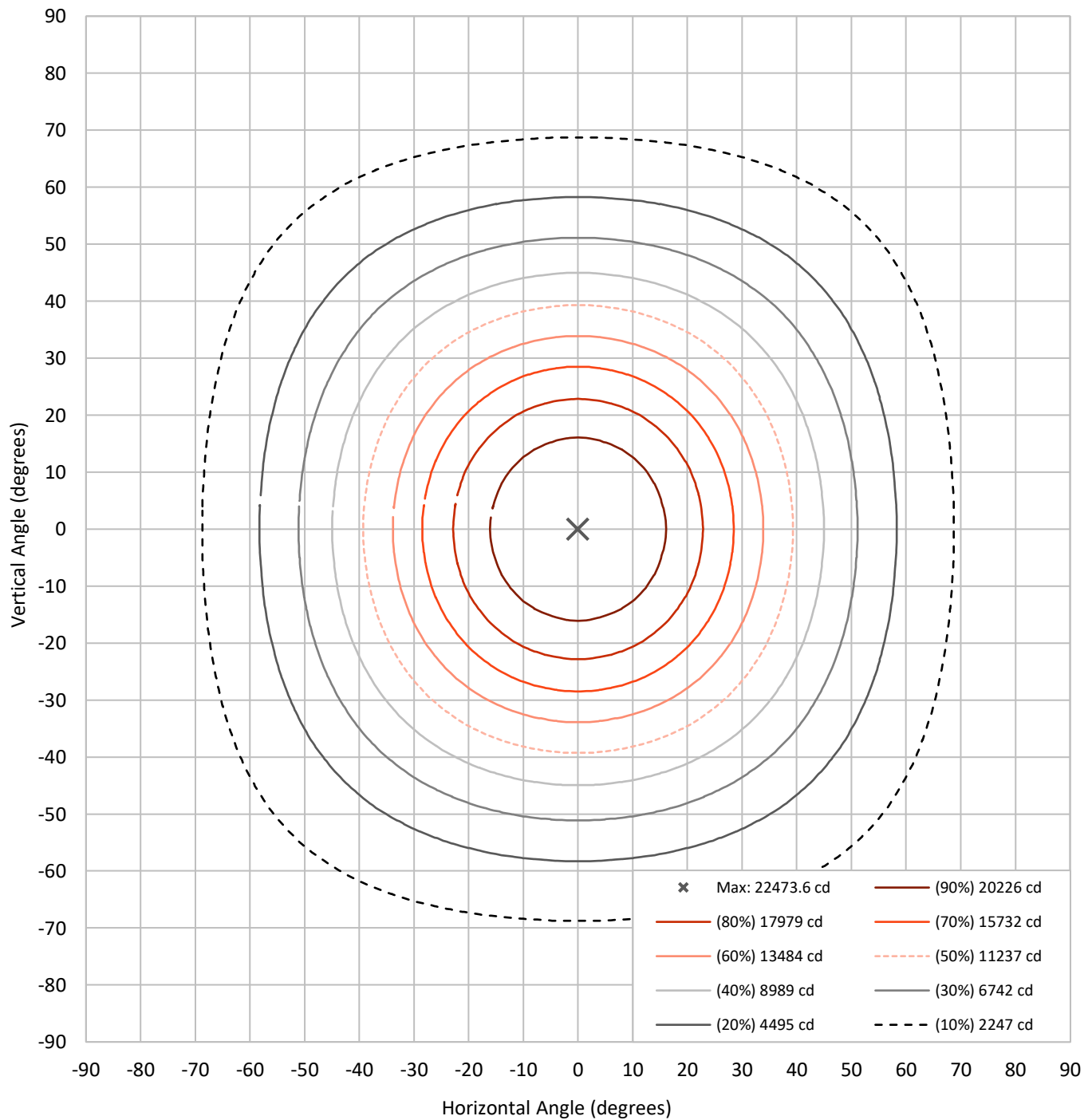
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	40464.2 lumens	Max Intensity:	22473.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	17508.5 lumens	Field Lumens:	28669.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	464.2		
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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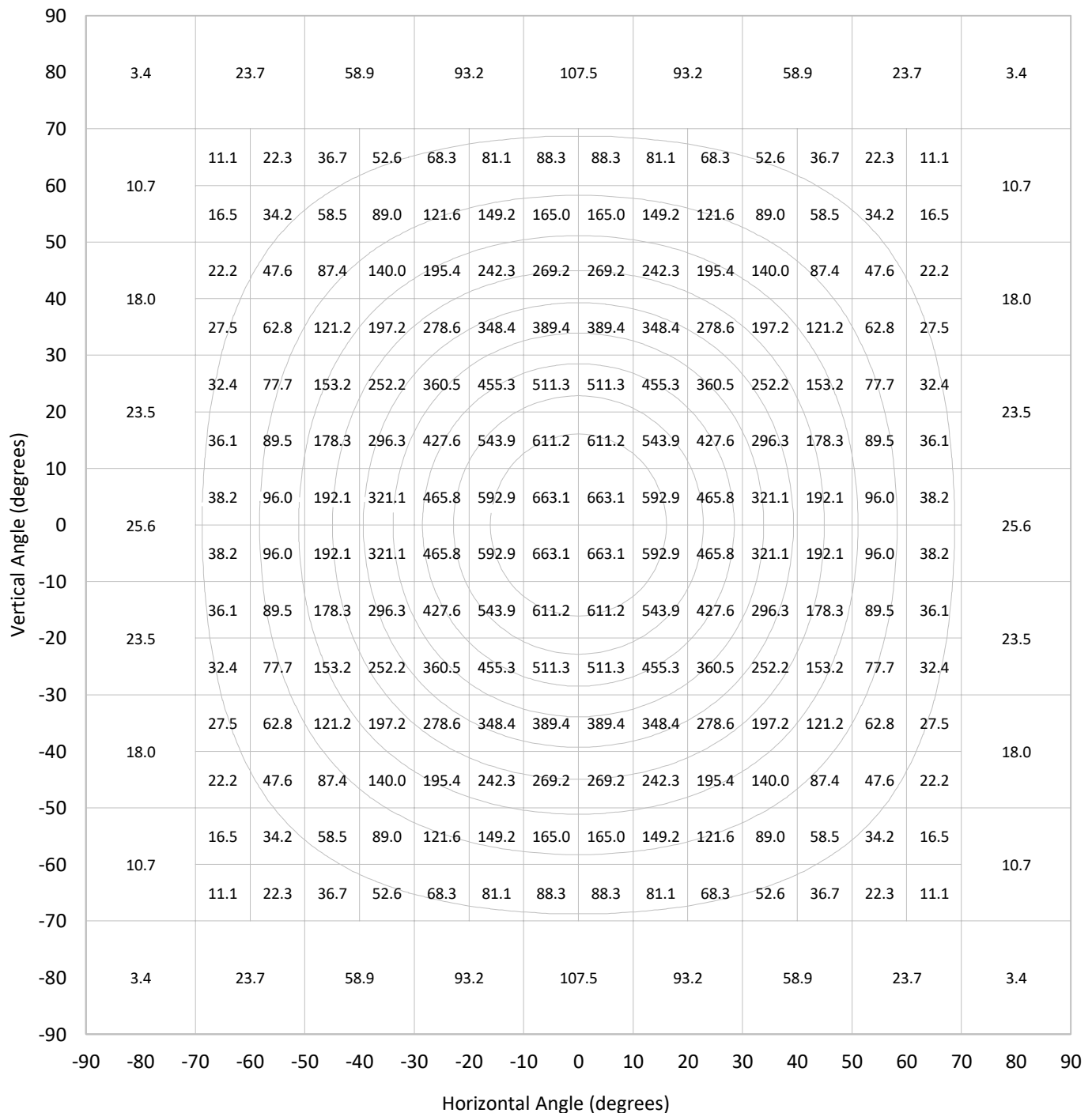
CATALOG NUMBER: IFLD-S-SA6E-722-U-77

Iso-Candela Plot



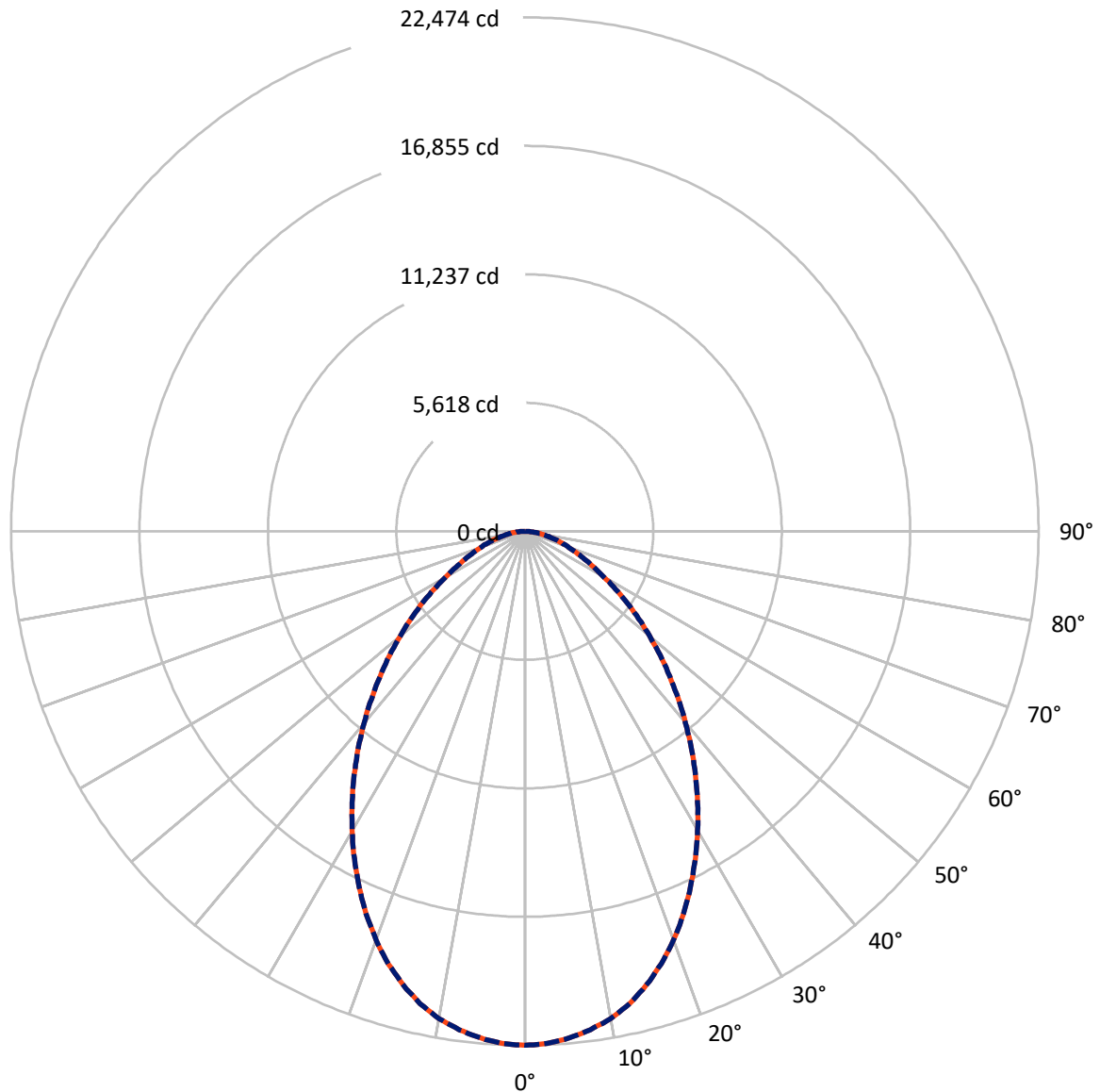
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Lumen Table



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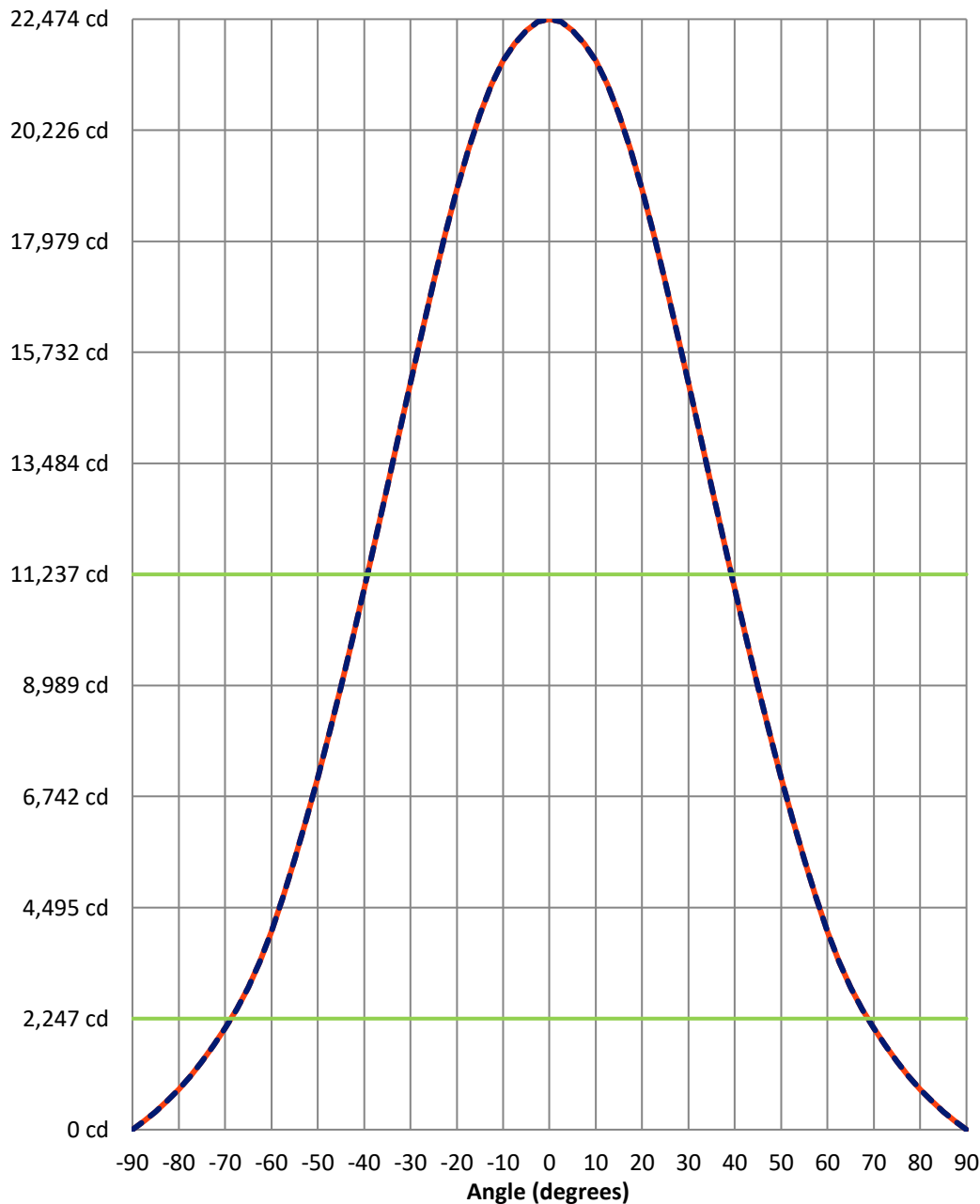
Luminous Intensity Polar Plot



— 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: 17508.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 28669.5
Efficiency: 70.9%

Spill:

Lumens: 11794.7
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°	173.0	173.0	173.0	173.0	173.0	173.0	173.0	164.5	164.5	160.3	156.1
85°	362.8	362.8	362.8	362.8	362.8	354.4	350.2	345.9	341.7	333.3	329.1
82.5°	582.2	582.2	582.2	582.2	573.8	565.3	561.1	552.7	544.2	531.6	518.9
80°	814.2	814.2	814.2	814.2	801.6	793.1	780.5	772.0	759.4	742.5	725.6
77.5°	1080.0	1080.0	1080.0	1067.4	1058.9	1046.3	1033.6	1016.7	999.9	978.8	953.5
75°	1379.5	1379.5	1379.5	1362.7	1350.0	1337.4	1316.3	1295.2	1269.9	1240.3	1206.6
72.5°	1704.4	1704.4	1704.4	1683.3	1670.6	1649.6	1624.2	1594.7	1565.2	1527.2	1485.0
70°	2054.6	2054.6	2054.6	2029.2	2008.2	1987.1	1953.3	1919.6	1877.4	1835.2	1784.6
67.5°	2434.3	2434.3	2434.3	2404.7	2379.4	2349.9	2311.9	2269.7	2219.1	2160.0	2101.0
65°	2877.2	2877.2	2860.4	2835.0	2805.5	2763.3	2716.9	2657.8	2594.6	2518.6	2438.5
62.5°	3400.4	3400.4	3375.0	3345.5	3307.5	3252.7	3189.4	3113.5	3024.9	2927.9	2830.8
60°	4007.9	4007.9	3978.3	3940.4	3885.5	3818.0	3733.6	3636.6	3526.9	3404.6	3286.4
57.5°	4708.2	4708.2	4670.2	4619.6	4552.1	4467.7	4362.2	4239.9	4100.7	3948.8	3801.1
55°	5467.6	5467.6	5421.2	5362.1	5281.9	5180.7	5054.1	4910.7	4741.9	4569.0	4379.1
52.5°	6273.4	6273.4	6218.5	6151.0	6058.2	5940.1	5796.6	5627.9	5433.8	5231.3	5007.7
50°	7121.3	7121.3	7058.1	6982.1	6876.7	6737.4	6572.9	6378.8	6163.7	5927.4	5670.1
47.5°	8028.4	8028.4	7956.7	7868.1	7741.5	7581.2	7387.1	7163.5	6918.8	6653.1	6362.0
45°	8960.7	8960.7	8880.6	8779.3	8640.1	8458.7	8243.5	8028.4	7716.2	7408.2	7070.7
42.5°	9931.1	9931.1	9838.3	9724.3	9564.0	9365.7	9121.1	8842.6	8534.6	8188.7	7821.7
40°	10939.4	10939.4	10833.9	10703.1	10525.9	10298.1	10023.9	9711.7	9365.7	8981.8	8576.8
37.5°	11968.8	11968.8	11850.6	11707.2	11508.9	11255.8	10947.8	10601.9	10213.7	9787.6	9340.4
35°	13006.6	13006.6	12875.8	12719.7	12500.3	12221.9	11888.6	11504.7	11074.4	10610.3	10108.3
32.5°	14065.5	14065.5	13922.1	13744.9	13496.0	13188.0	12821.0	12403.3	11968.8	11428.7	10880.3
30°	15111.8	15111.8	14955.7	14761.6	14495.8	14158.3	13757.5	13297.7	12787.2	12234.5	11643.9
27.5°	16141.2	16099.0	15968.2	15761.5	15470.4	15111.8	14677.2	14179.4	13626.7	13019.2	12386.4
25°	17153.7	17107.3	16963.8	16736.0	16423.8	16031.5	15563.2	15031.6	14436.8	13795.5	13103.6
22.5°	18124.0	18073.4	17921.5	17676.8	17343.5	16917.4	16415.4	15845.8	15213.0	14525.3	13795.5
20°	19022.6	18967.8	18811.7	18554.3	18208.4	17757.0	17225.4	16613.7	15938.6	15213.0	14436.8
17.5°	19832.6	19777.8	19613.2	19347.4	19022.6	18520.6	17972.1	17326.6	16613.7	15845.8	15031.6
15°	20545.6	20486.5	20317.8	20052.0	19680.7	19208.2	18630.2	17972.1	17225.4	16415.4	15563.2
12.5°	21153.1	21094.0	20921.1	20655.3	20271.4	19798.9	19208.2	18520.6	17757.0	16917.4	16031.5
10°	21634.0	21575.0	21410.4	21157.3	20760.7	20271.4	19680.7	19022.6	18208.4	17343.5	16423.8
7.5°	21980.0	21925.1	21773.3	21520.1	21157.3	20655.3	20052.0	19347.4	18554.3	17676.8	16736.0
5°	22241.5	22178.3	22026.4	21773.3	21410.4	20921.1	20317.8	19613.2	18811.7	17921.5	16963.8
2.5°	22423.0	22347.0	22178.3	21925.1	21575.0	21094.0	20486.5	19777.8	18967.8	18073.4	17107.3
0°	22473.6	22423.0	22241.5	21980.0	21634.0	21153.1	20545.6	19832.6	19022.6	18124.0	17153.7

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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°	151.9	151.9	147.7	143.4	139.2	130.8	126.6	122.3	118.1	109.7	105.5
85°	320.6	312.2	303.8	295.3	282.7	274.2	261.6	253.1	240.5	227.8	215.2
82.5°	506.3	493.6	476.7	464.1	447.2	426.1	409.2	388.1	367.0	350.2	329.1
80°	708.8	687.7	666.6	645.5	620.2	594.9	569.5	544.2	514.7	485.2	455.6
77.5°	928.1	898.6	869.1	835.3	805.8	772.0	738.3	704.5	666.6	628.6	590.6
75°	1172.8	1134.9	1092.7	1050.5	1012.5	966.1	919.7	873.3	822.7	776.3	725.6
72.5°	1438.6	1392.2	1341.6	1291.0	1236.1	1177.0	1118.0	1054.7	995.6	936.6	873.3
70°	1725.5	1670.6	1607.4	1544.1	1476.6	1404.9	1333.1	1257.2	1181.3	1105.3	1029.4
67.5°	2033.5	1966.0	1890.0	1814.1	1729.7	1645.3	1561.0	1472.4	1379.5	1286.7	1198.1
65°	2362.5	2278.2	2189.6	2092.5	1995.5	1898.5	1797.2	1691.7	1586.3	1476.6	1379.5
62.5°	2729.6	2624.1	2510.2	2392.1	2282.4	2164.2	2054.6	1923.8	1797.2	1674.9	1552.5
60°	3155.7	3016.4	2877.2	2729.6	2590.3	2438.5	2303.5	2160.0	2016.6	1877.4	1733.9
57.5°	3632.4	3455.2	3286.4	3109.3	2923.6	2754.9	2581.9	2408.9	2248.6	2084.1	1928.0
55°	4172.4	3957.2	3746.3	3526.9	3311.8	3100.8	2881.4	2687.4	2489.1	2303.5	2122.1
52.5°	4763.0	4518.3	4256.8	4007.9	3733.6	3472.1	3227.4	2982.7	2750.7	2527.1	2320.3
50°	5395.9	5109.0	4809.4	4505.7	4193.5	3885.5	3590.2	3303.3	3033.3	2771.8	2527.1
47.5°	6054.0	5729.1	5387.4	5041.5	4708.2	4332.7	3978.3	3653.5	3328.6	3033.3	2750.7
45°	6729.0	6362.0	5986.5	5594.1	5201.8	4796.8	4404.4	4007.9	3653.5	3303.3	2982.7
42.5°	7425.1	7011.7	6594.0	6159.5	5724.9	5281.9	4839.0	4404.4	3978.3	3590.2	3227.4
40°	8142.3	7686.7	7209.9	6737.4	6273.4	5767.1	5281.9	4796.8	4332.7	3885.5	3472.1
37.5°	8859.5	8361.7	7847.0	7315.4	6783.8	6273.4	5724.9	5201.8	4708.2	4193.5	3733.6
35°	9580.9	9032.5	8475.6	7897.6	7315.4	6737.4	6159.5	5594.1	5041.5	4505.7	4007.9
32.5°	10306.5	9707.5	9091.5	8475.6	7847.0	7209.9	6594.0	5986.5	5387.4	4809.4	4256.8
30°	11019.5	10369.8	9707.5	9032.5	8361.7	7686.7	7011.7	6362.0	5729.1	5109.0	4518.3
27.5°	11715.6	11019.5	10306.5	9580.9	8859.5	8142.3	7425.1	6729.0	6054.0	5395.9	4763.0
25°	12386.4	11643.9	10880.3	10108.3	9340.4	8576.8	7821.7	7070.7	6362.0	5670.1	5007.7
22.5°	13019.2	12234.5	11428.7	10610.3	9787.6	8981.8	8188.7	7408.2	6653.1	5927.4	5231.3
20°	13626.7	12787.2	11968.8	11074.4	10213.7	9365.7	8534.6	7716.2	6918.8	6163.7	5433.8
17.5°	14179.4	13297.7	12403.3	11504.7	10601.9	9711.7	8842.6	8028.4	7163.5	6378.8	5627.9
15°	14677.2	13757.5	12821.0	11888.6	10947.8	10023.9	9121.1	8243.5	7387.1	6572.9	5796.6
12.5°	15111.8	14158.3	13188.0	12221.9	11255.8	10298.1	9365.7	8458.7	7581.2	6737.4	5940.1
10°	15470.4	14495.8	13496.0	12500.3	11508.9	10525.9	9564.0	8640.1	7741.5	6876.7	6058.2
7.5°	15761.5	14761.6	13744.9	12719.7	11707.2	10703.1	9724.3	8779.3	7868.1	6982.1	6151.0
5°	15968.2	14955.7	13922.1	12875.8	11850.6	10833.9	9838.3	8880.6	7956.7	7058.1	6218.5
2.5°	16099.0	15111.8	14065.5	13006.6	11968.8	10939.4	9931.1	8960.7	8028.4	7121.3	6273.4
0°	16141.2	15111.8	14065.5	13006.6	11968.8	10939.4	9931.1	8960.7	8028.4	7121.3	6273.4

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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°	101.3	92.8	84.4	80.2	71.7	67.5	59.1	50.6	46.4	38.0	29.5
85°	202.5	185.6	173.0	160.3	147.7	130.8	118.1	105.5	88.6	75.9	59.1
82.5°	308.0	286.9	265.8	244.7	223.6	202.5	177.2	156.1	135.0	113.9	88.6
80°	426.1	392.3	362.8	333.3	303.8	274.2	240.5	210.9	177.2	147.7	118.1
77.5°	548.4	510.5	468.3	426.1	383.9	345.9	303.8	265.8	227.8	185.6	147.7
75°	679.2	628.6	582.2	527.4	476.7	421.9	371.3	320.6	274.2	227.8	177.2
72.5°	814.2	750.9	687.7	628.6	565.3	502.0	443.0	379.7	320.6	265.8	210.9
70°	953.5	877.5	801.6	729.9	658.1	582.2	514.7	443.0	371.3	303.8	240.5
67.5°	1101.1	1012.5	923.9	831.1	750.9	666.6	582.2	502.0	421.9	345.9	274.2
65°	1261.4	1156.0	1046.3	949.2	843.8	750.9	658.1	565.3	476.7	383.9	303.8
62.5°	1426.0	1303.6	1181.3	1058.9	949.2	831.1	729.9	628.6	527.4	426.1	333.3
60°	1594.7	1455.5	1316.3	1181.3	1046.3	923.9	801.6	687.7	582.2	468.3	362.8
57.5°	1767.7	1611.6	1455.5	1303.6	1156.0	1012.5	877.5	750.9	628.6	510.5	392.3
55°	1944.9	1767.7	1594.7	1426.0	1261.4	1101.1	953.5	814.2	679.2	548.4	426.1
52.5°	2122.1	1928.0	1733.9	1552.5	1379.5	1198.1	1029.4	873.3	725.6	590.6	455.6
50°	2303.5	2084.1	1877.4	1674.9	1476.6	1286.7	1105.3	936.6	776.3	628.6	485.2
47.5°	2489.1	2248.6	2016.6	1797.2	1586.3	1379.5	1181.3	995.6	822.7	666.6	514.7
45°	2687.4	2408.9	2160.0	1923.8	1691.7	1472.4	1257.2	1054.7	873.3	704.5	544.2
42.5°	2881.4	2581.9	2303.5	2054.6	1797.2	1561.0	1333.1	1118.0	919.7	738.3	569.5
40°	3100.8	2754.9	2438.5	2164.2	1898.5	1645.3	1404.9	1177.0	966.1	772.0	594.9
37.5°	3311.8	2923.6	2590.3	2282.4	1995.5	1729.7	1476.6	1236.1	1012.5	805.8	620.2
35°	3526.9	3109.3	2729.6	2392.1	2092.5	1814.1	1544.1	1291.0	1050.5	835.3	645.5
32.5°	3746.3	3286.4	2877.2	2510.2	2189.6	1890.0	1607.4	1341.6	1092.7	869.1	666.6
30°	3957.2	3455.2	3016.4	2624.1	2278.2	1966.0	1670.6	1392.2	1134.9	898.6	687.7
27.5°	4172.4	3632.4	3155.7	2729.6	2362.5	2033.5	1725.5	1438.6	1172.8	928.1	708.8
25°	4379.1	3801.1	3286.4	2830.8	2438.5	2101.0	1784.6	1485.0	1206.6	953.5	725.6
22.5°	4569.0	3948.8	3404.6	2927.9	2518.6	2160.0	1835.2	1527.2	1240.3	978.8	742.5
20°	4741.9	4100.7	3526.9	3024.9	2594.6	2219.1	1877.4	1565.2	1269.9	999.9	759.4
17.5°	4910.7	4239.9	3636.6	3113.5	2657.8	2269.7	1919.6	1594.7	1295.2	1016.7	772.0
15°	5054.1	4362.2	3733.6	3189.4	2716.9	2311.9	1953.3	1624.2	1316.3	1033.6	780.5
12.5°	5180.7	4467.7	3818.0	3252.7	2763.3	2349.9	1987.1	1649.6	1337.4	1046.3	793.1
10°	5281.9	4552.1	3885.5	3307.5	2805.5	2379.4	2008.2	1670.6	1350.0	1058.9	801.6
7.5°	5362.1	4619.6	3940.4	3345.5	2835.0	2404.7	2029.2	1683.3	1362.7	1067.4	814.2
5°	5421.2	4670.2	3978.3	3375.0	2860.4	2434.3	2054.6	1704.4	1379.5	1080.0	814.2
2.5°	5467.6	4708.2	4007.9	3400.4	2877.2	2434.3	2054.6	1704.4	1379.5	1080.0	814.2
0°	5467.6	4708.2	4007.9	3400.4	2877.2	2434.3	2054.6	1704.4	1379.5	1080.0	814.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.1	16.9	8.4	0.0
85°	46.4	29.5	16.9	0.0
82.5°	67.5	46.4	21.1	0.0
80°	88.6	59.1	29.5	0.0
77.5°	113.9	75.9	38.0	0.0
75°	135.0	88.6	46.4	0.0
72.5°	156.1	105.5	50.6	0.0
70°	177.2	118.1	59.1	0.0
67.5°	202.5	130.8	67.5	0.0
65°	223.6	147.7	71.7	0.0
62.5°	244.7	160.3	80.2	0.0
60°	265.8	173.0	84.4	0.0
57.5°	286.9	185.6	92.8	0.0
55°	308.0	202.5	101.3	0.0
52.5°	329.1	215.2	105.5	0.0
50°	350.2	227.8	109.7	0.0
47.5°	367.0	240.5	118.1	0.0
45°	388.1	253.1	122.3	0.0
42.5°	409.2	261.6	126.6	0.0
40°	426.1	274.2	130.8	0.0
37.5°	447.2	282.7	139.2	0.0
35°	464.1	295.3	143.4	0.0
32.5°	476.7	303.8	147.7	0.0
30°	493.6	312.2	151.9	0.0
27.5°	506.3	320.6	151.9	0.0
25°	518.9	329.1	156.1	0.0
22.5°	531.6	333.3	160.3	0.0
20°	544.2	341.7	164.5	0.0
17.5°	552.7	345.9	164.5	0.0
15°	561.1	350.2	173.0	0.0
12.5°	565.3	354.4	173.0	0.0
10°	573.8	362.8	173.0	0.0
7.5°	582.2	362.8	173.0	0.0
5°	582.2	362.8	173.0	0.0
2.5°	582.2	362.8	173.0	0.0
0°	582.2	362.8	173.0	0.0

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