

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: P623864

Luminaire Tested: **IFLD-L-SA7E-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623864
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

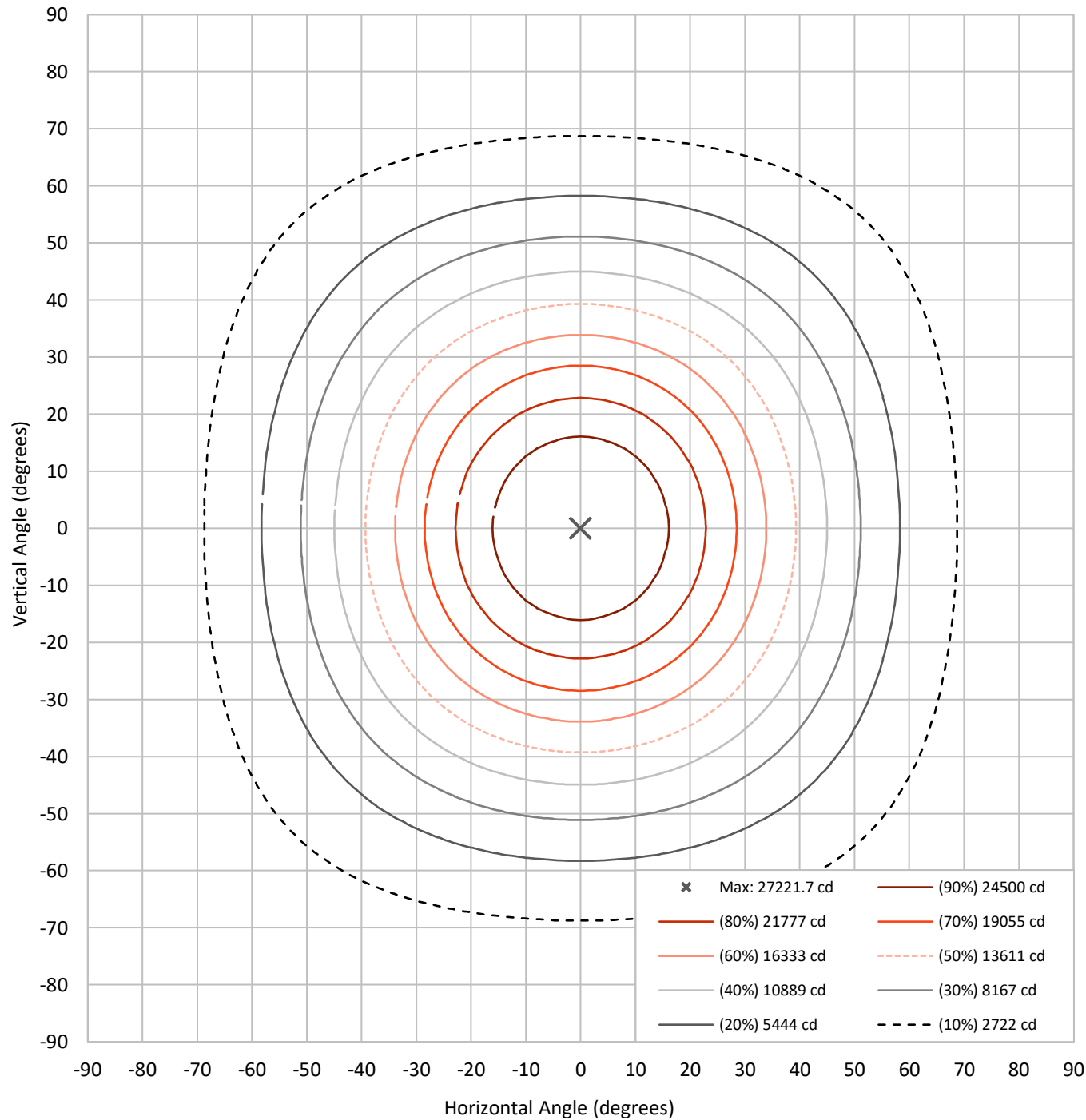
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	49013.3 lumens	Max Intensity:	27221.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	92.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	21207.6 lumens	Field Lumens:	34726.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	532.7		
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		





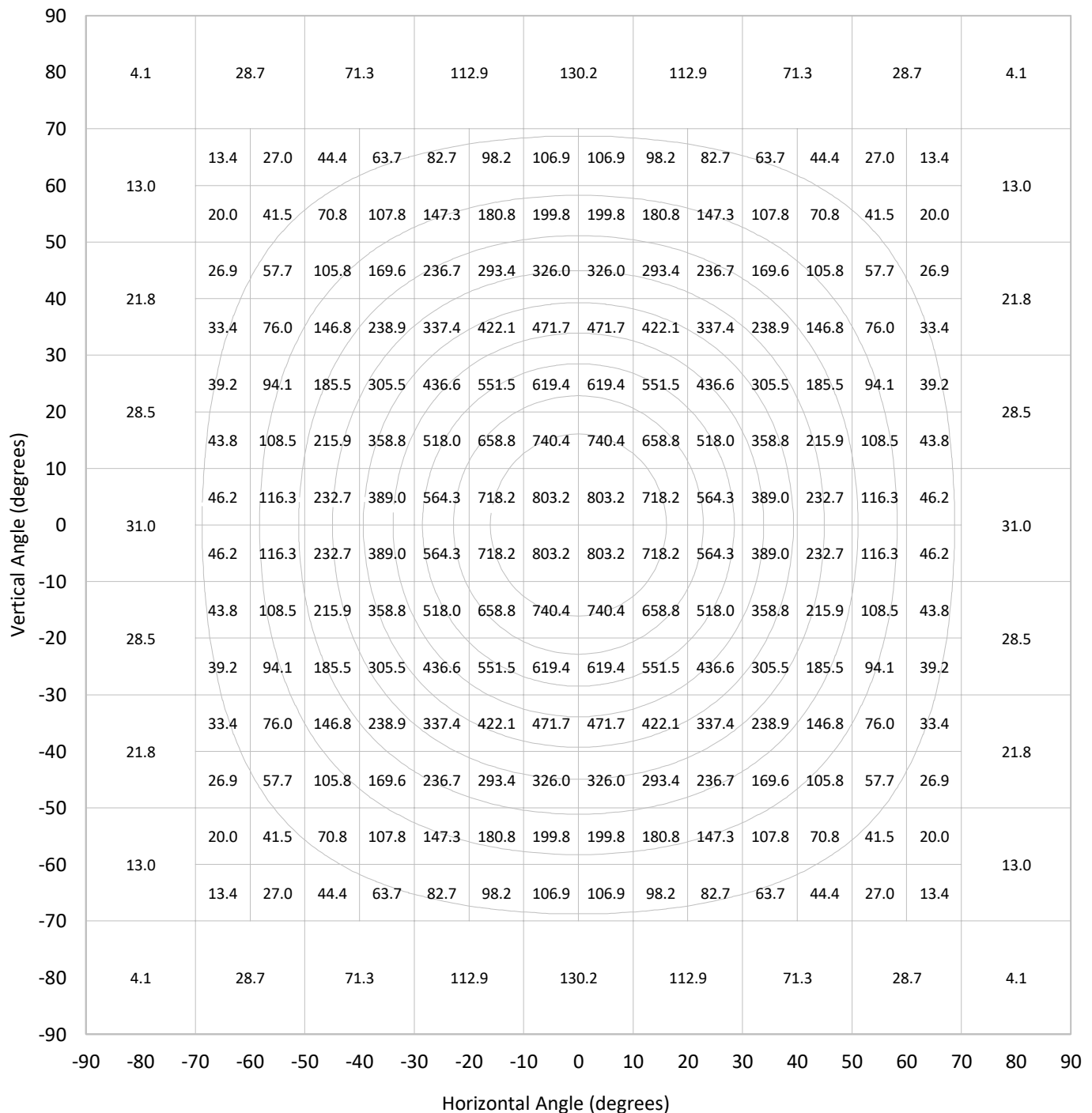
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Iso-Candela Plot



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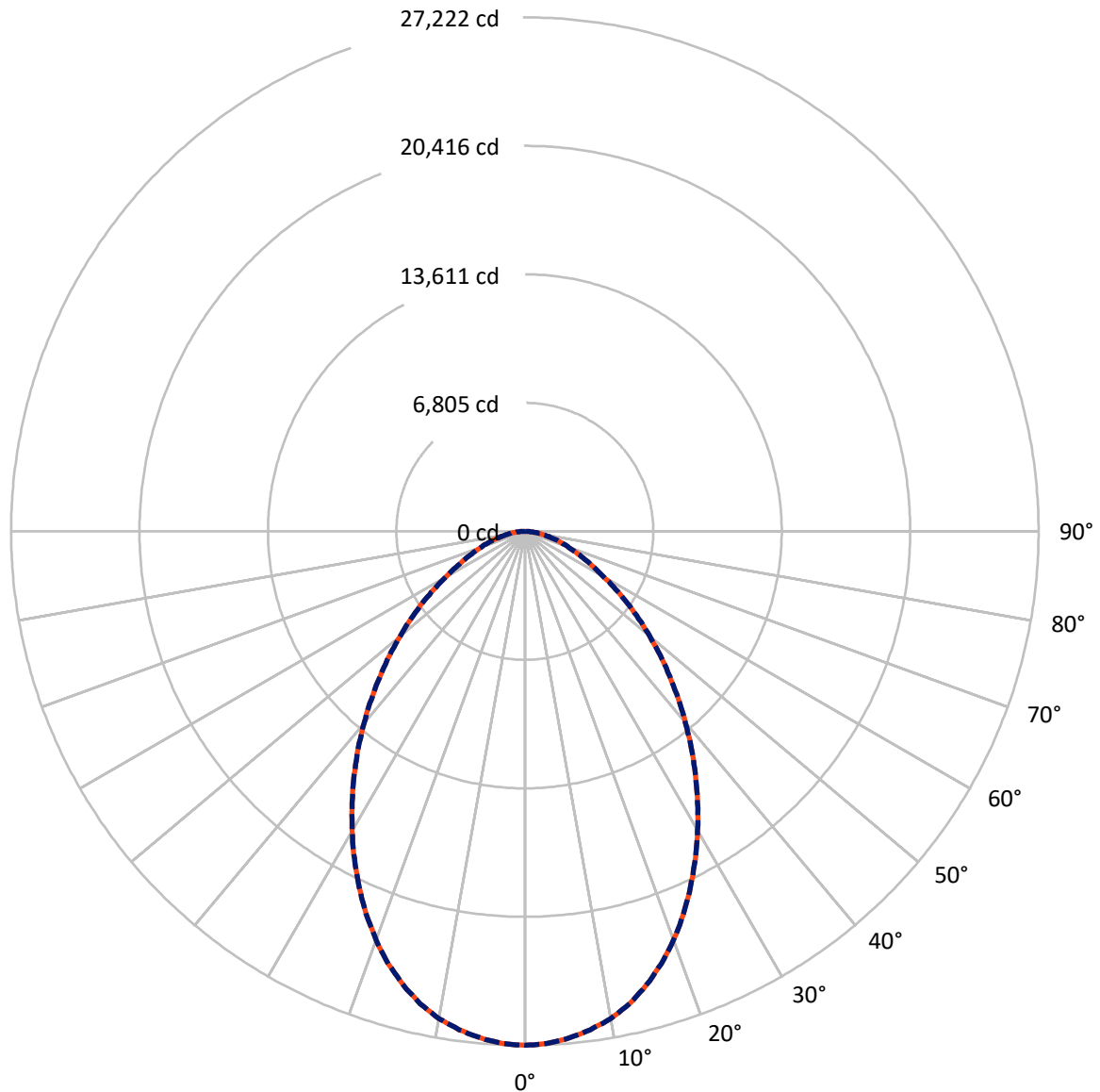
Lumen Table



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Luminous Intensity Polar Plot

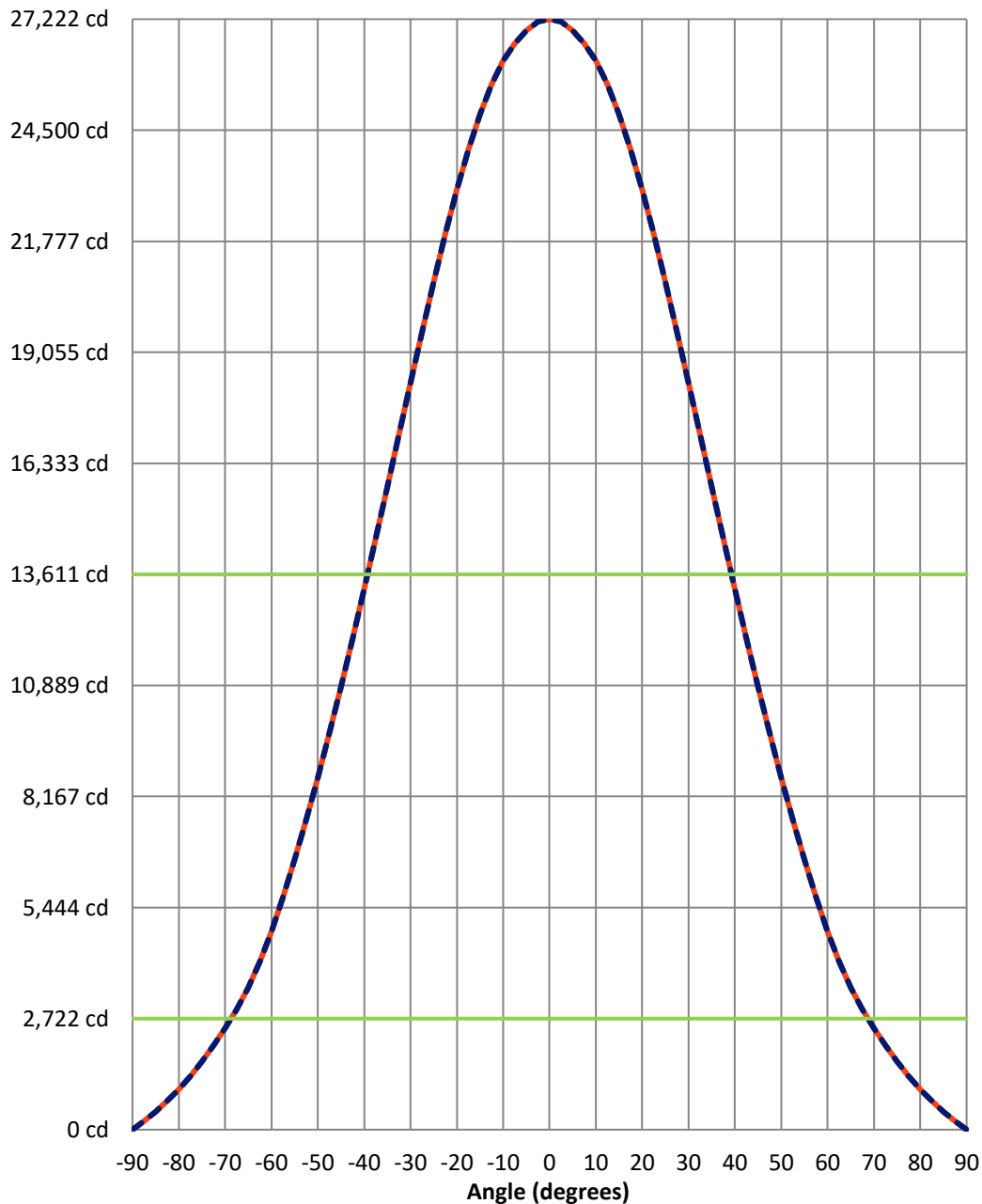


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 21207.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 34726.7
Efficiency: 70.9%

Spill:

Lumens: 14286.6
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°	209.5	209.5	209.5	209.5	209.5	209.5	209.5	199.3	199.3	194.2	189.1
85°	439.5	439.5	439.5	439.5	439.5	429.3	424.1	419.0	413.9	403.7	398.6
82.5°	705.2	705.2	705.2	705.2	695.0	684.8	679.6	669.4	659.2	643.9	628.5
80°	986.3	986.3	986.3	986.3	970.9	960.7	945.4	935.2	919.8	899.4	878.9
77.5°	1308.2	1308.2	1308.2	1292.9	1282.6	1267.3	1252.0	1231.5	1211.1	1185.6	1154.9
75°	1671.0	1671.0	1671.0	1650.6	1635.2	1619.9	1594.4	1568.8	1538.2	1502.4	1461.5
72.5°	2064.5	2064.5	2064.5	2038.9	2023.6	1998.1	1967.4	1931.6	1895.9	1849.9	1798.8
70°	2488.6	2488.6	2488.6	2458.0	2432.4	2406.9	2366.0	2325.1	2274.0	2222.9	2161.6
67.5°	2948.6	2948.6	2948.6	2912.8	2882.1	2846.3	2800.4	2749.3	2687.9	2616.4	2544.8
65°	3485.1	3485.1	3464.7	3434.0	3398.2	3347.1	3290.9	3219.4	3142.7	3050.8	2953.7
62.5°	4118.8	4118.8	4088.1	4052.3	4006.3	3939.9	3863.3	3771.3	3664.0	3546.4	3428.9
60°	4854.6	4854.6	4818.9	4772.9	4706.4	4624.7	4522.5	4404.9	4272.1	4123.9	3980.8
57.5°	5702.9	5702.9	5656.9	5595.6	5513.8	5411.6	5283.9	5135.7	4967.1	4783.1	4604.2
55°	6622.7	6622.7	6566.5	6495.0	6397.9	6275.3	6121.9	5948.2	5743.8	5534.3	5304.3
52.5°	7598.8	7598.8	7532.3	7450.6	7338.2	7195.1	7021.3	6816.9	6581.9	6336.6	6065.7
50°	8625.9	8625.9	8549.3	8457.3	8329.5	8160.9	7961.6	7726.5	7465.9	7179.7	6868.0
47.5°	9724.6	9724.6	9637.7	9530.4	9377.1	9182.9	8947.9	8677.0	8380.6	8058.7	7706.1
45°	10853.9	10853.9	10756.8	10634.2	10465.6	10245.8	9985.2	9724.6	9346.4	8973.4	8564.6
42.5°	12029.3	12029.3	11916.8	11778.9	11584.7	11344.5	11048.1	10710.9	10337.8	9918.8	9474.2
40°	13250.6	13250.6	13122.8	12964.4	12749.8	12473.9	12141.7	11763.5	11344.5	10879.5	10388.9
37.5°	14497.5	14497.5	14354.4	14180.6	13940.5	13633.9	13260.8	12841.8	12371.6	11855.5	11313.8
35°	15754.6	15754.6	15596.1	15407.1	15141.3	14804.1	14400.4	13935.4	13414.1	12852.0	12243.9
32.5°	17037.2	17037.2	16863.5	16648.8	16347.3	15974.3	15529.7	15023.8	14497.5	13843.4	13179.1
30°	18304.5	18304.5	18115.4	17880.4	17558.4	17149.6	16664.2	16107.2	15488.8	14819.4	14104.0
27.5°	19551.4	19500.3	19341.9	19091.5	18738.9	18304.5	17778.2	17175.2	16505.8	15769.9	15003.4
25°	20777.8	20721.6	20547.9	20271.9	19893.8	19418.5	18851.3	18207.4	17486.9	16710.2	15872.1
22.5°	21953.2	21891.8	21707.9	21411.5	21007.8	20491.7	19883.6	19193.7	18427.2	17594.2	16710.2
20°	23041.6	22975.2	22786.1	22474.4	22055.4	21508.6	20864.7	20123.7	19306.1	18427.2	17486.9
17.5°	24022.8	23956.3	23757.0	23435.1	23041.6	22433.5	21769.2	20987.3	20123.7	19193.7	18207.4
15°	24886.4	24814.8	24610.4	24288.5	23838.8	23266.5	22566.4	21769.2	20864.7	19883.6	18851.3
12.5°	25622.2	25550.7	25341.2	25019.2	24554.2	23981.9	23266.5	22433.5	21508.6	20491.7	19418.5
10°	26204.8	26133.3	25934.0	25627.4	25147.0	24554.2	23838.8	23041.6	22055.4	21007.8	19893.8
7.5°	26623.8	26557.4	26373.4	26066.8	25627.4	25019.2	24288.5	23435.1	22474.4	21411.5	20271.9
5°	26940.7	26864.0	26680.0	26373.4	25934.0	25341.2	24610.4	23757.0	22786.1	21707.9	20547.9
2.5°	27160.4	27068.4	26864.0	26557.4	26133.3	25550.7	24814.8	23956.3	22975.2	21891.8	20721.6
0°	27221.7	27160.4	26940.7	26623.8	26204.8	25622.2	24886.4	24022.8	23041.6	21953.2	20777.8

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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°	184.0	184.0	178.9	173.7	168.6	158.4	153.3	148.2	143.1	132.9	127.8
85°	388.4	378.2	367.9	357.7	342.4	332.2	316.8	306.6	291.3	275.9	260.6
82.5°	613.2	597.9	577.4	562.1	541.7	516.1	495.7	470.1	444.6	424.1	398.6
80°	858.5	833.0	807.4	781.9	751.2	720.5	689.9	659.2	623.4	587.7	551.9
77.5°	1124.2	1088.5	1052.7	1011.8	976.0	935.2	894.3	853.4	807.4	761.4	715.4
75°	1420.6	1374.6	1323.5	1272.4	1226.4	1170.2	1114.0	1057.8	996.5	940.3	878.9
72.5°	1742.6	1686.3	1625.0	1563.7	1497.3	1425.7	1354.2	1277.5	1206.0	1134.5	1057.8
70°	2090.0	2023.6	1947.0	1870.3	1788.5	1701.7	1614.8	1522.8	1430.8	1338.9	1246.9
67.5°	2463.1	2381.3	2289.3	2197.4	2095.2	1993.0	1890.8	1783.4	1671.0	1558.6	1451.3
65°	2861.7	2759.5	2652.2	2534.6	2417.1	2299.6	2176.9	2049.2	1921.4	1788.5	1671.0
62.5°	3306.3	3178.5	3040.5	2897.4	2764.6	2621.5	2488.6	2330.2	2176.9	2028.7	1880.5
60°	3822.4	3653.7	3485.1	3306.3	3137.6	2953.7	2790.1	2616.4	2442.6	2274.0	2100.3
57.5°	4399.8	4185.2	3980.8	3766.2	3541.3	3336.9	3127.4	2917.9	2723.7	2524.4	2335.3
55°	5053.9	4793.3	4537.8	4272.1	4011.5	3756.0	3490.2	3255.2	3015.0	2790.1	2570.4
52.5°	5769.3	5473.0	5156.1	4854.6	4522.5	4205.6	3909.3	3612.9	3331.8	3061.0	2810.6
50°	6535.9	6188.4	5825.6	5457.6	5079.5	4706.4	4348.7	4001.2	3674.2	3357.4	3061.0
47.5°	7333.1	6939.6	6525.6	6106.6	5702.9	5248.1	4818.9	4425.4	4031.9	3674.2	3331.8
45°	8150.7	7706.1	7251.3	6776.0	6300.8	5810.2	5335.0	4854.6	4425.4	4001.2	3612.9
42.5°	8993.8	8493.1	7987.1	7460.8	6934.5	6397.9	5861.3	5335.0	4818.9	4348.7	3909.3
40°	9862.6	9310.7	8733.2	8160.9	7598.8	6985.6	6397.9	5810.2	5248.1	4706.4	4205.6
37.5°	10731.3	10128.3	9504.9	8861.0	8217.1	7598.8	6934.5	6300.8	5702.9	5079.5	4522.5
35°	11605.1	10940.8	10266.3	9566.2	8861.0	8160.9	7460.8	6776.0	6106.6	5457.6	4854.6
32.5°	12484.1	11758.4	11012.4	10266.3	9504.9	8733.2	7987.1	7251.3	6525.6	5825.6	5156.1
30°	13347.7	12560.7	11758.4	10940.8	10128.3	9310.7	8493.1	7706.1	6939.6	6188.4	5473.0
27.5°	14190.9	13347.7	12484.1	11605.1	10731.3	9862.6	8993.8	8150.7	7333.1	6535.9	5769.3
25°	15003.4	14104.0	13179.1	12243.9	11313.8	10388.9	9474.2	8564.6	7706.1	6868.0	6065.7
22.5°	15769.9	14819.4	13843.4	12852.0	11855.5	10879.5	9918.8	8973.4	8058.7	7179.7	6336.6
20°	16505.8	15488.8	14497.5	13414.1	12371.6	11344.5	10337.8	9346.4	8380.6	7465.9	6581.9
17.5°	17175.2	16107.2	15023.8	13935.4	12841.8	11763.5	10710.9	9724.6	8677.0	7726.5	6816.9
15°	17778.2	16664.2	15529.7	14400.4	13260.8	12141.7	11048.1	9985.2	8947.9	7961.6	7021.3
12.5°	18304.5	17149.6	15974.3	14804.1	13633.9	12473.9	11344.5	10245.8	9182.9	8160.9	7195.1
10°	18738.9	17558.4	16347.3	15141.3	13940.5	12749.8	11584.7	10465.6	9377.1	8329.5	7338.2
7.5°	19091.5	17880.4	16648.8	15407.1	14180.6	12964.4	11778.9	10634.2	9530.4	8457.3	7450.6
5°	19341.9	18115.4	16863.5	15596.1	14354.4	13122.8	11916.8	10756.8	9637.7	8549.3	7532.3
2.5°	19500.3	18304.5	17037.2	15754.6	14497.5	13250.6	12029.3	10853.9	9724.6	8625.9	7598.8
0°	19551.4	18304.5	17037.2	15754.6	14497.5	13250.6	12029.3	10853.9	9724.6	8625.9	7598.8

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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°	122.6	112.4	102.2	97.1	86.9	81.8	71.5	61.3	56.2	46.0	35.8
85°	245.3	224.8	209.5	194.2	178.9	158.4	143.1	127.8	107.3	92.0	71.5
82.5°	373.0	347.5	321.9	296.4	270.8	245.3	214.6	189.1	163.5	138.0	107.3
80°	516.1	475.2	439.5	403.7	367.9	332.2	291.3	255.5	214.6	178.9	143.1
77.5°	664.3	618.3	567.2	516.1	465.0	419.0	367.9	321.9	275.9	224.8	178.9
75°	822.7	761.4	705.2	638.8	577.4	511.0	449.7	388.4	332.2	275.9	214.6
72.5°	986.3	909.6	833.0	761.4	684.8	608.1	536.6	459.9	388.4	321.9	255.5
70°	1154.9	1062.9	970.9	884.1	797.2	705.2	623.4	536.6	449.7	367.9	291.3
67.5°	1333.7	1226.4	1119.1	1006.7	909.6	807.4	705.2	608.1	511.0	419.0	332.2
65°	1527.9	1400.2	1267.3	1149.8	1022.0	909.6	797.2	684.8	577.4	465.0	367.9
62.5°	1727.2	1579.0	1430.8	1282.6	1149.8	1006.7	884.1	761.4	638.8	516.1	403.7
60°	1931.6	1763.0	1594.4	1430.8	1267.3	1119.1	970.9	833.0	705.2	567.2	439.5
57.5°	2141.1	1952.1	1763.0	1579.0	1400.2	1226.4	1062.9	909.6	761.4	618.3	475.2
55°	2355.8	2141.1	1931.6	1727.2	1527.9	1333.7	1154.9	986.3	822.7	664.3	516.1
52.5°	2570.4	2335.3	2100.3	1880.5	1671.0	1451.3	1246.9	1057.8	878.9	715.4	551.9
50°	2790.1	2524.4	2274.0	2028.7	1788.5	1558.6	1338.9	1134.5	940.3	761.4	587.7
47.5°	3015.0	2723.7	2442.6	2176.9	1921.4	1671.0	1430.8	1206.0	996.5	807.4	623.4
45°	3255.2	2917.9	2616.4	2330.2	2049.2	1783.4	1522.8	1277.5	1057.8	853.4	659.2
42.5°	3490.2	3127.4	2790.1	2488.6	2176.9	1890.8	1614.8	1354.2	1114.0	894.3	689.9
40°	3756.0	3336.9	2953.7	2621.5	2299.6	1993.0	1701.7	1425.7	1170.2	935.2	720.5
37.5°	4011.5	3541.3	3137.6	2764.6	2417.1	2095.2	1788.5	1497.3	1226.4	976.0	751.2
35°	4272.1	3766.2	3306.3	2897.4	2534.6	2197.4	1870.3	1563.7	1272.4	1011.8	781.9
32.5°	4537.8	3980.8	3485.1	3040.5	2652.2	2289.3	1947.0	1625.0	1323.5	1052.7	807.4
30°	4793.3	4185.2	3653.7	3178.5	2759.5	2381.3	2023.6	1686.3	1374.6	1088.5	833.0
27.5°	5053.9	4399.8	3822.4	3306.3	2861.7	2463.1	2090.0	1742.6	1420.6	1124.2	858.5
25°	5304.3	4604.2	3980.8	3428.9	2953.7	2544.8	2161.6	1798.8	1461.5	1154.9	878.9
22.5°	5534.3	4783.1	4123.9	3546.4	3050.8	2616.4	2222.9	1849.9	1502.4	1185.6	899.4
20°	5743.8	4967.1	4272.1	3664.0	3142.7	2687.9	2274.0	1895.9	1538.2	1211.1	919.8
17.5°	5948.2	5135.7	4404.9	3771.3	3219.4	2749.3	2325.1	1931.6	1568.8	1231.5	935.2
15°	6121.9	5283.9	4522.5	3863.3	3290.9	2800.4	2366.0	1967.4	1594.4	1252.0	945.4
12.5°	6275.3	5411.6	4624.7	3939.9	3347.1	2846.3	2406.9	1998.1	1619.9	1267.3	960.7
10°	6397.9	5513.8	4706.4	4006.3	3398.2	2882.1	2432.4	2023.6	1635.2	1282.6	970.9
7.5°	6495.0	5595.6	4772.9	4052.3	3434.0	2912.8	2458.0	2038.9	1650.6	1292.9	986.3
5°	6566.5	5656.9	4818.9	4088.1	3464.7	2948.6	2488.6	2064.5	1671.0	1308.2	986.3
2.5°	6622.7	5702.9	4854.6	4118.8	3485.1	2948.6	2488.6	2064.5	1671.0	1308.2	986.3
0°	6622.7	5702.9	4854.6	4118.8	3485.1	2948.6	2488.6	2064.5	1671.0	1308.2	986.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.6	20.4	10.2	0.0
85°	56.2	35.8	20.4	0.0
82.5°	81.8	56.2	25.6	0.0
80°	107.3	71.5	35.8	0.0
77.5°	138.0	92.0	46.0	0.0
75°	163.5	107.3	56.2	0.0
72.5°	189.1	127.8	61.3	0.0
70°	214.6	143.1	71.5	0.0
67.5°	245.3	158.4	81.8	0.0
65°	270.8	178.9	86.9	0.0
62.5°	296.4	194.2	97.1	0.0
60°	321.9	209.5	102.2	0.0
57.5°	347.5	224.8	112.4	0.0
55°	373.0	245.3	122.6	0.0
52.5°	398.6	260.6	127.8	0.0
50°	424.1	275.9	132.9	0.0
47.5°	444.6	291.3	143.1	0.0
45°	470.1	306.6	148.2	0.0
42.5°	495.7	316.8	153.3	0.0
40°	516.1	332.2	158.4	0.0
37.5°	541.7	342.4	168.6	0.0
35°	562.1	357.7	173.7	0.0
32.5°	577.4	367.9	178.9	0.0
30°	597.9	378.2	184.0	0.0
27.5°	613.2	388.4	184.0	0.0
25°	628.5	398.6	189.1	0.0
22.5°	643.9	403.7	194.2	0.0
20°	659.2	413.9	199.3	0.0
17.5°	669.4	419.0	199.3	0.0
15°	679.6	424.1	209.5	0.0
12.5°	684.8	429.3	209.5	0.0
10°	695.0	439.5	209.5	0.0
7.5°	705.2	439.5	209.5	0.0
5°	705.2	439.5	209.5	0.0
2.5°	705.2	439.5	209.5	0.0
0°	705.2	439.5	209.5	0.0

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