

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: P623895

Luminaire Tested: **IFLD-L-SA8B-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623895
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38475.6 lumens	Max Intensity:	21369.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.2 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:	16648 lumens	Field Lumens:	27260.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

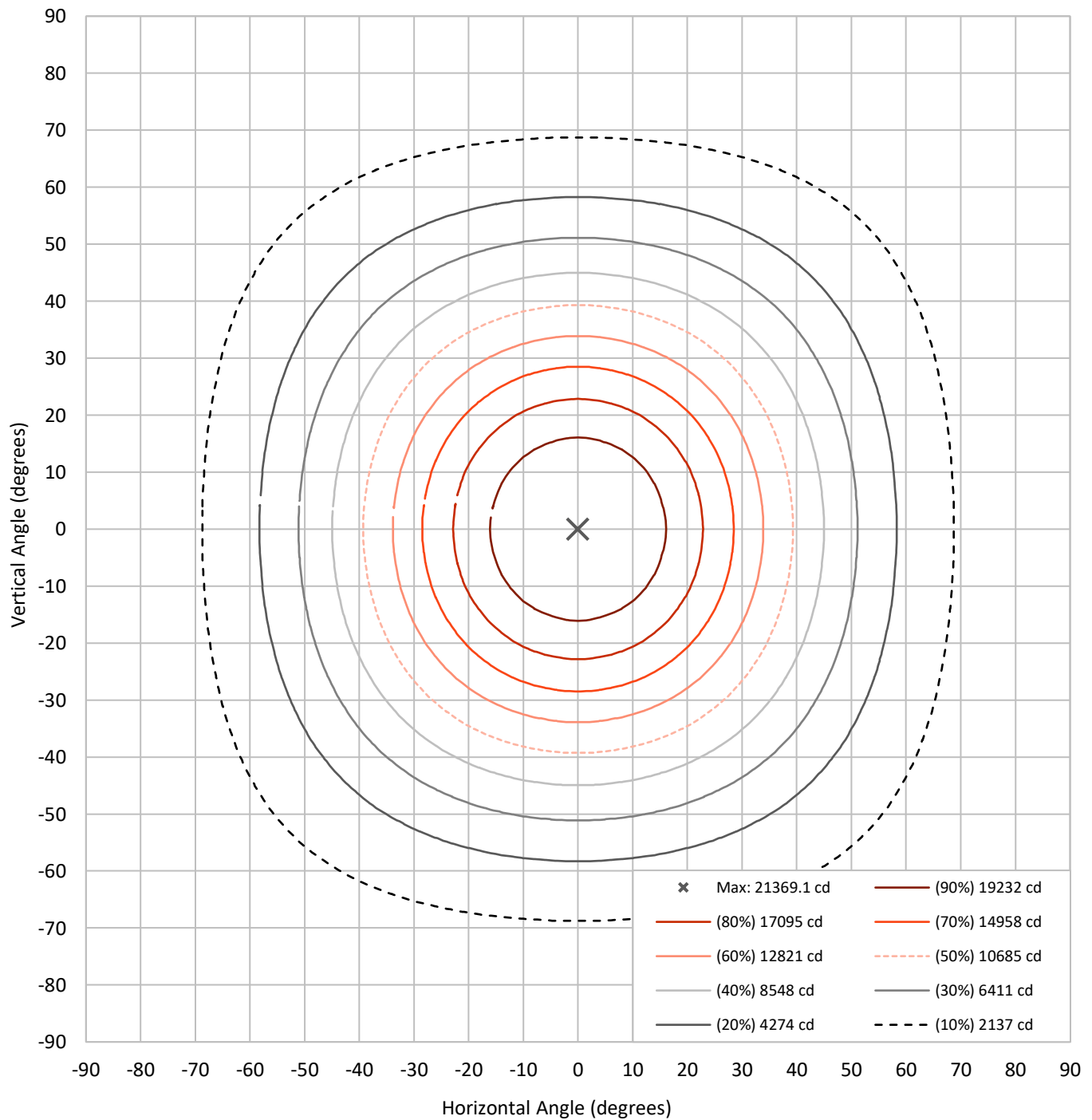
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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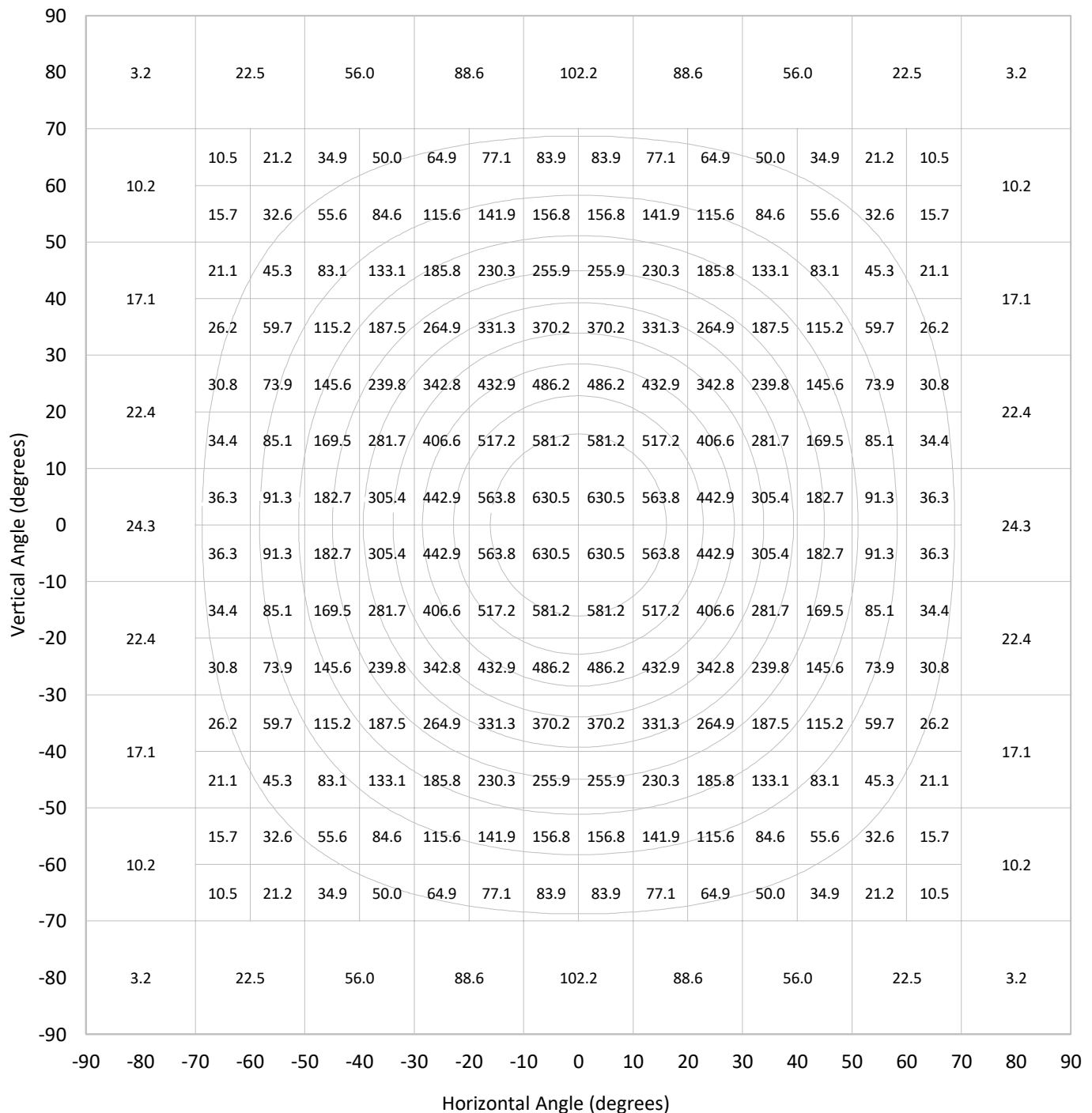
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Iso-Candela Plot



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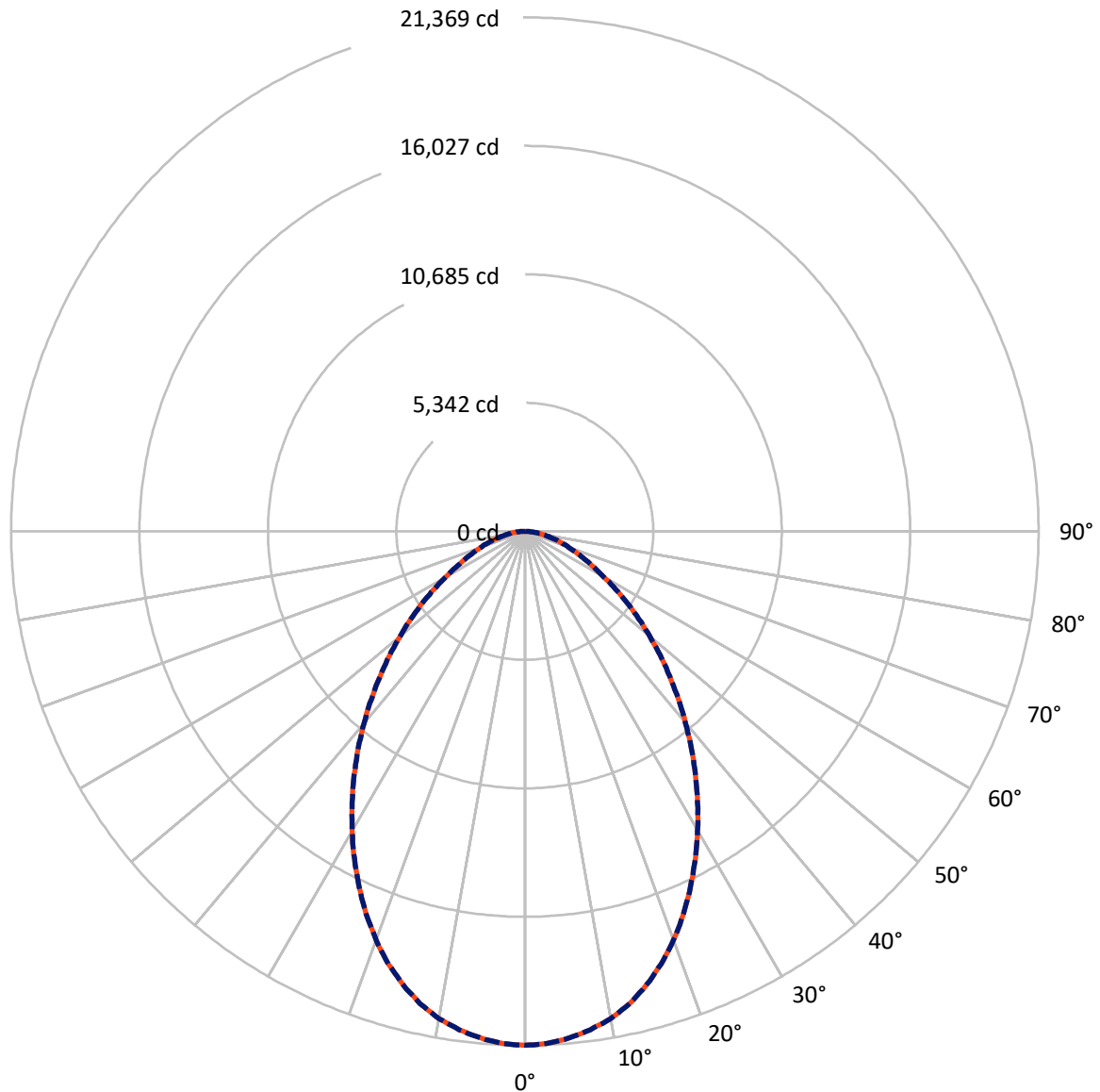
Lumen Table



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Luminous Intensity Polar Plot

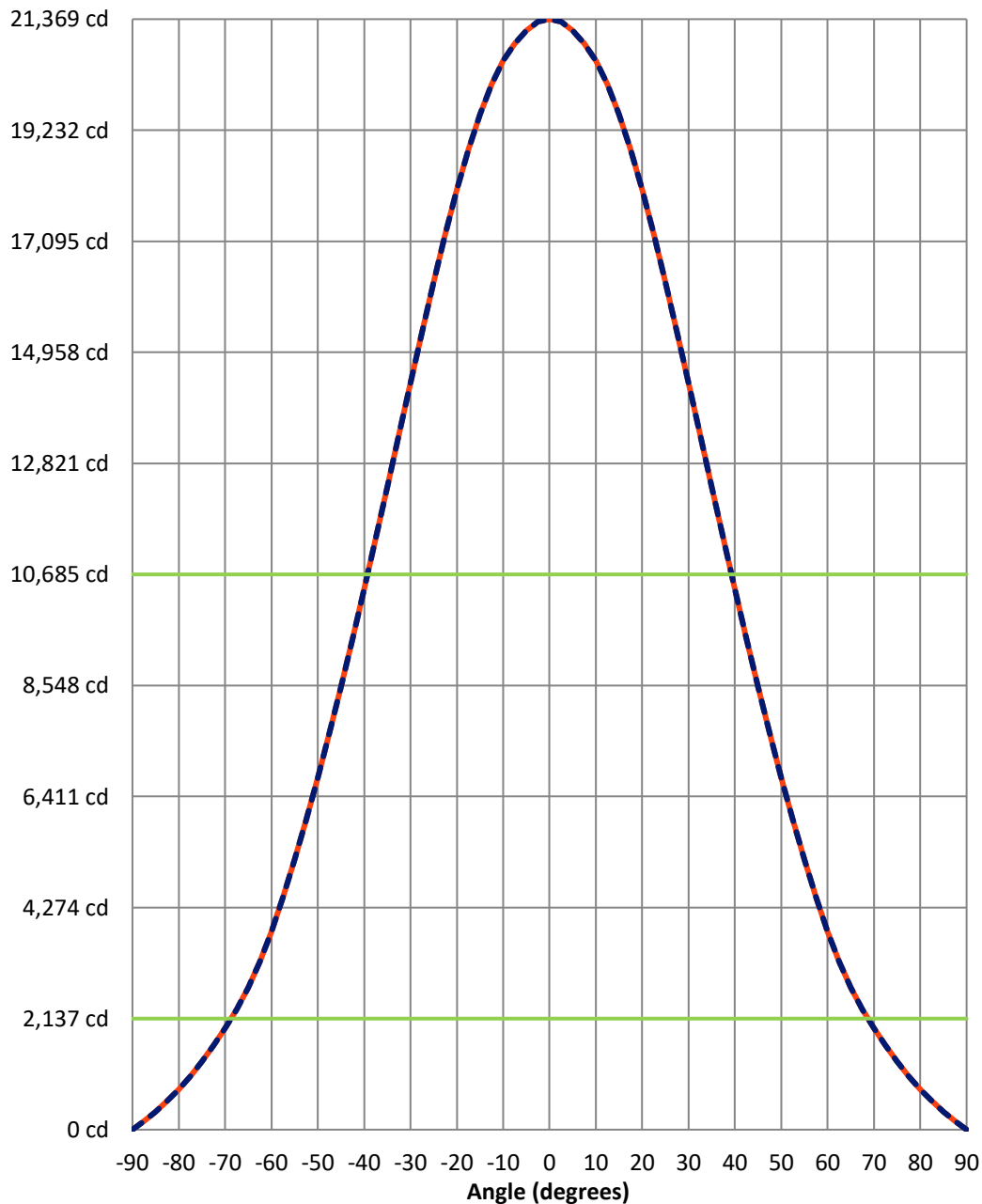


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16648
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 27260.5
Efficiency: 70.9%

Spill:

Lumens: 11215
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°	164.5	164.5	164.5	164.5	164.5	164.5	164.5	156.4	156.4	152.4	148.4
85°	345.0	345.0	345.0	345.0	345.0	337.0	333.0	328.9	324.9	316.9	312.9
82.5°	553.6	553.6	553.6	553.6	545.6	537.5	533.5	525.5	517.5	505.4	493.4
80°	774.2	774.2	774.2	774.2	762.2	754.2	742.1	734.1	722.1	706.0	690.0
77.5°	1026.9	1026.9	1026.9	1014.9	1006.9	994.8	982.8	966.8	950.7	930.7	906.6
75°	1311.8	1311.8	1311.8	1295.7	1283.7	1271.6	1251.6	1231.5	1207.5	1179.4	1147.3
72.5°	1620.6	1620.6	1620.6	1600.6	1588.5	1568.5	1544.4	1516.3	1488.3	1452.2	1412.0
70°	1953.6	1953.6	1953.6	1929.5	1909.5	1889.4	1857.3	1825.2	1785.1	1745.0	1696.9
67.5°	2314.6	2314.6	2314.6	2286.5	2262.5	2234.4	2198.3	2158.2	2110.0	2053.9	1997.7
65°	2735.8	2735.8	2719.8	2695.7	2667.6	2627.5	2583.4	2527.2	2467.1	2394.8	2318.6
62.5°	3233.2	3233.2	3209.2	3181.1	3145.0	3092.8	3032.7	2960.5	2876.2	2784.0	2691.7
60°	3810.9	3810.9	3782.8	3746.7	3694.6	3630.4	3550.2	3457.9	3353.6	3237.3	3124.9
57.5°	4476.8	4476.8	4440.7	4392.6	4328.4	4248.1	4147.9	4031.5	3899.1	3754.7	3614.3
55°	5198.9	5198.9	5154.7	5098.6	5022.4	4926.1	4805.7	4669.4	4508.9	4344.4	4163.9
52.5°	5965.1	5965.1	5912.9	5848.7	5760.5	5648.2	5511.8	5351.3	5166.8	4974.2	4761.6
50°	6771.4	6771.4	6711.2	6639.0	6538.7	6406.3	6249.9	6065.3	5860.8	5636.1	5391.4
47.5°	7633.8	7633.8	7565.6	7481.4	7361.0	7208.6	7024.1	6811.5	6578.8	6326.1	6049.3
45°	8520.4	8520.4	8444.1	8347.9	8215.5	8043.0	7838.4	7633.8	7337.0	7044.1	6723.2
42.5°	9443.0	9443.0	9354.8	9246.4	9094.0	8905.5	8672.8	8408.0	8115.2	7786.3	7437.3
40°	10401.7	10401.7	10301.5	10177.1	10008.6	9792.0	9531.3	9234.4	8905.5	8540.4	8155.3
37.5°	11380.5	11380.5	11268.2	11131.8	10943.3	10702.6	10409.8	10080.8	9711.8	9306.6	8881.4
35°	12367.4	12367.4	12243.0	12094.6	11886.0	11621.2	11304.3	10939.3	10530.1	10088.8	9611.5
32.5°	13374.2	13374.2	13237.9	13069.4	12832.7	12539.9	12190.9	11793.7	11380.5	10867.1	10345.6
30°	14369.1	14369.1	14220.7	14036.1	13783.4	13462.5	13081.4	12644.2	12158.8	11633.3	11071.7
27.5°	15347.9	15307.8	15183.4	14986.9	14710.1	14369.1	13955.9	13482.6	12957.1	12379.4	11777.7
25°	16310.6	16266.5	16130.1	15913.5	15616.7	15243.6	14798.3	14292.9	13727.3	13117.5	12459.6
22.5°	17233.3	17185.1	17040.7	16808.1	16491.2	16086.0	15608.6	15067.1	14465.4	13811.5	13117.5
20°	18087.7	18035.6	17887.1	17642.4	17313.5	16884.3	16378.8	15797.2	15155.3	14465.4	13727.3
17.5°	18857.9	18805.8	18649.3	18396.6	18087.7	17610.4	17088.9	16475.1	15797.2	15067.1	14292.9
15°	19535.9	19479.7	19319.2	19066.5	18713.5	18264.2	17714.7	17088.9	16378.8	15608.6	14798.3
12.5°	20113.5	20057.4	19892.9	19640.2	19275.1	18825.8	18264.2	17610.4	16884.3	16086.0	15243.6
10°	20570.8	20514.7	20358.2	20117.5	19740.4	19275.1	18713.5	18087.7	17313.5	16491.2	15616.7
7.5°	20899.8	20847.6	20703.2	20462.5	20117.5	19640.2	19066.5	18396.6	17642.4	16808.1	15913.5
5°	21148.5	21088.3	20943.9	20703.2	20358.2	19892.9	19319.2	18649.3	17887.1	17040.7	16130.1
2.5°	21321.0	21248.8	21088.3	20847.6	20514.7	20057.4	19479.7	18805.8	18035.6	17185.1	16266.5
0°	21369.1	21321.0	21148.5	20899.8	20570.8	20113.5	19535.9	18857.9	18087.7	17233.3	16310.6

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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°	144.4	144.4	140.4	136.4	132.4	124.4	120.3	116.3	112.3	104.3	100.3
85°	304.9	296.8	288.8	280.8	268.8	260.7	248.7	240.7	228.7	216.6	204.6
82.5°	481.4	469.3	453.3	441.3	425.2	405.2	389.1	369.1	349.0	333.0	312.9
80°	673.9	653.9	633.8	613.8	589.7	565.6	541.5	517.5	489.4	461.3	433.2
77.5°	882.5	854.4	826.4	794.3	766.2	734.1	702.0	669.9	633.8	597.7	561.6
75°	1115.2	1079.1	1039.0	998.9	962.8	918.6	874.5	830.4	782.2	738.1	690.0
72.5°	1367.9	1323.8	1275.6	1227.5	1175.4	1119.2	1063.0	1002.9	946.7	890.5	830.4
70°	1640.7	1588.5	1528.4	1468.2	1404.0	1335.8	1267.6	1195.4	1123.2	1051.0	978.8
67.5°	1933.5	1869.3	1797.1	1724.9	1644.7	1564.5	1484.2	1400.0	1311.8	1223.5	1139.3
65°	2246.4	2166.2	2082.0	1989.7	1897.4	1805.2	1708.9	1608.6	1508.3	1404.0	1311.8
62.5°	2595.4	2495.1	2386.8	2274.5	2170.2	2057.9	1953.6	1829.2	1708.9	1592.6	1476.2
60°	3000.6	2868.2	2735.8	2595.4	2463.0	2318.6	2190.3	2053.9	1917.5	1785.1	1648.7
57.5°	3453.9	3285.4	3124.9	2956.5	2779.9	2619.5	2455.0	2290.6	2138.1	1981.7	1833.2
55°	3967.3	3762.8	3562.2	3353.6	3149.0	2948.4	2739.8	2555.3	2366.8	2190.3	2017.8
52.5°	4529.0	4296.3	4047.6	3810.9	3550.2	3301.4	3068.8	2836.1	2615.5	2402.9	2206.3
50°	5130.7	4857.9	4573.1	4284.3	3987.4	3694.6	3413.8	3141.0	2884.2	2635.5	2402.9
47.5°	5756.5	5447.6	5122.6	4793.7	4476.8	4119.8	3782.8	3473.9	3165.1	2884.2	2615.5
45°	6398.3	6049.3	5692.3	5319.2	4946.1	4561.0	4188.0	3810.9	3473.9	3141.0	2836.1
42.5°	7060.2	6667.1	6269.9	5856.7	5443.6	5022.4	4601.2	4188.0	3782.8	3413.8	3068.8
40°	7742.1	7308.9	6855.6	6406.3	5965.1	5483.7	5022.4	4561.0	4119.8	3694.6	3301.4
37.5°	8424.1	7950.7	7461.3	6955.9	6450.4	5965.1	5443.6	4946.1	4476.8	3987.4	3550.2
35°	9110.1	8588.6	8059.0	7509.5	6955.9	6406.3	5856.7	5319.2	4793.7	4284.3	3810.9
32.5°	9800.0	9230.4	8644.7	8059.0	7461.3	6855.6	6269.9	5692.3	5122.6	4573.1	4047.6
30°	10478.0	9860.2	9230.4	8588.6	7950.7	7308.9	6667.1	6049.3	5447.6	4857.9	4296.3
27.5°	11139.9	10478.0	9800.0	9110.1	8424.1	7742.1	7060.2	6398.3	5756.5	5130.7	4529.0
25°	11777.7	11071.7	10345.6	9611.5	8881.4	8155.3	7437.3	6723.2	6049.3	5391.4	4761.6
22.5°	12379.4	11633.3	10867.1	10088.8	9306.6	8540.4	7786.3	7044.1	6326.1	5636.1	4974.2
20°	12957.1	12158.8	11380.5	10530.1	9711.8	8905.5	8115.2	7337.0	6578.8	5860.8	5166.8
17.5°	13482.6	12644.2	11793.7	10939.3	10080.8	9234.4	8408.0	7633.8	6811.5	6065.3	5351.3
15°	13955.9	13081.4	12190.9	11304.3	10409.8	9531.3	8672.8	7838.4	7024.1	6249.9	5511.8
12.5°	14369.1	13462.5	12539.9	11621.2	10702.6	9792.0	8905.5	8043.0	7208.6	6406.3	5648.2
10°	14710.1	13783.4	12832.7	11886.0	10943.3	10008.6	9094.0	8215.5	7361.0	6538.7	5760.5
7.5°	14986.9	14036.1	13069.4	12094.6	11131.8	10177.1	9246.4	8347.9	7481.4	6639.0	5848.7
5°	15183.4	14220.7	13237.9	12243.0	11268.2	10301.5	9354.8	8444.1	7565.6	6711.2	5912.9
2.5°	15307.8	14369.1	13374.2	12367.4	11380.5	10401.7	9443.0	8520.4	7633.8	6771.4	5965.1
0°	15347.9	14369.1	13374.2	12367.4	11380.5	10401.7	9443.0	8520.4	7633.8	6771.4	5965.1

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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°	96.3	88.3	80.2	76.2	68.2	64.2	56.2	48.1	44.1	36.1	28.1
85°	192.6	176.5	164.5	152.4	140.4	124.4	112.3	100.3	84.2	72.2	56.2
82.5°	292.8	272.8	252.7	232.7	212.6	192.6	168.5	148.4	128.4	108.3	84.2
80°	405.2	373.1	345.0	316.9	288.8	260.7	228.7	200.6	168.5	140.4	112.3
77.5°	521.5	485.4	445.3	405.2	365.0	328.9	288.8	252.7	216.6	176.5	140.4
75°	645.8	597.7	553.6	501.4	453.3	401.1	353.0	304.9	260.7	216.6	168.5
72.5°	774.2	714.0	653.9	597.7	537.5	477.4	421.2	361.0	304.9	252.7	200.6
70°	906.6	834.4	762.2	694.0	625.8	553.6	489.4	421.2	353.0	288.8	228.7
67.5°	1047.0	962.8	878.5	790.3	714.0	633.8	553.6	477.4	401.1	328.9	260.7
65°	1199.4	1099.1	994.8	902.6	802.3	714.0	625.8	537.5	453.3	365.0	288.8
62.5°	1355.9	1239.5	1123.2	1006.9	902.6	790.3	694.0	597.7	501.4	405.2	316.9
60°	1516.3	1384.0	1251.6	1123.2	994.8	878.5	762.2	653.9	553.6	445.3	345.0
57.5°	1680.8	1532.4	1384.0	1239.5	1099.1	962.8	834.4	714.0	597.7	485.4	373.1
55°	1849.3	1680.8	1516.3	1355.9	1199.4	1047.0	906.6	774.2	645.8	521.5	405.2
52.5°	2017.8	1833.2	1648.7	1476.2	1311.8	1139.3	978.8	830.4	690.0	561.6	433.2
50°	2190.3	1981.7	1785.1	1592.6	1404.0	1223.5	1051.0	890.5	738.1	597.7	461.3
47.5°	2366.8	2138.1	1917.5	1708.9	1508.3	1311.8	1123.2	946.7	782.2	633.8	489.4
45°	2555.3	2290.6	2053.9	1829.2	1608.6	1400.0	1195.4	1002.9	830.4	669.9	517.5
42.5°	2739.8	2455.0	2190.3	1953.6	1708.9	1484.2	1267.6	1063.0	874.5	702.0	541.5
40°	2948.4	2619.5	2318.6	2057.9	1805.2	1564.5	1335.8	1119.2	918.6	734.1	565.6
37.5°	3149.0	2779.9	2463.0	2170.2	1897.4	1644.7	1404.0	1175.4	962.8	766.2	589.7
35°	3353.6	2956.5	2595.4	2274.5	1989.7	1724.9	1468.2	1227.5	998.9	794.3	613.8
32.5°	3562.2	3124.9	2735.8	2386.8	2082.0	1797.1	1528.4	1275.6	1039.0	826.4	633.8
30°	3762.8	3285.4	2868.2	2495.1	2166.2	1869.3	1588.5	1323.8	1079.1	854.4	653.9
27.5°	3967.3	3453.9	3000.6	2595.4	2246.4	1933.5	1640.7	1367.9	1115.2	882.5	673.9
25°	4163.9	3614.3	3124.9	2691.7	2318.6	1997.7	1696.9	1412.0	1147.3	906.6	690.0
22.5°	4344.4	3754.7	3237.3	2784.0	2394.8	2053.9	1745.0	1452.2	1179.4	930.7	706.0
20°	4508.9	3899.1	3353.6	2876.2	2467.1	2110.0	1785.1	1488.3	1207.5	950.7	722.1
17.5°	4669.4	4031.5	3457.9	2960.5	2527.2	2158.2	1825.2	1516.3	1231.5	966.8	734.1
15°	4805.7	4147.9	3550.2	3032.7	2583.4	2198.3	1857.3	1544.4	1251.6	982.8	742.1
12.5°	4926.1	4248.1	3630.4	3092.8	2627.5	2234.4	1889.4	1568.5	1271.6	994.8	754.2
10°	5022.4	4328.4	3694.6	3145.0	2667.6	2262.5	1909.5	1588.5	1283.7	1006.9	762.2
7.5°	5098.6	4392.6	3746.7	3181.1	2695.7	2286.5	1929.5	1600.6	1295.7	1014.9	774.2
5°	5154.7	4440.7	3782.8	3209.2	2719.8	2314.6	1953.6	1620.6	1311.8	1026.9	774.2
2.5°	5198.9	4476.8	3810.9	3233.2	2735.8	2314.6	1953.6	1620.6	1311.8	1026.9	774.2
0°	5198.9	4476.8	3810.9	3233.2	2735.8	2314.6	1953.6	1620.6	1311.8	1026.9	774.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.1	16.0	8.0	0.0
85°	44.1	28.1	16.0	0.0
82.5°	64.2	44.1	20.1	0.0
80°	84.2	56.2	28.1	0.0
77.5°	108.3	72.2	36.1	0.0
75°	128.4	84.2	44.1	0.0
72.5°	148.4	100.3	48.1	0.0
70°	168.5	112.3	56.2	0.0
67.5°	192.6	124.4	64.2	0.0
65°	212.6	140.4	68.2	0.0
62.5°	232.7	152.4	76.2	0.0
60°	252.7	164.5	80.2	0.0
57.5°	272.8	176.5	88.3	0.0
55°	292.8	192.6	96.3	0.0
52.5°	312.9	204.6	100.3	0.0
50°	333.0	216.6	104.3	0.0
47.5°	349.0	228.7	112.3	0.0
45°	369.1	240.7	116.3	0.0
42.5°	389.1	248.7	120.3	0.0
40°	405.2	260.7	124.4	0.0
37.5°	425.2	268.8	132.4	0.0
35°	441.3	280.8	136.4	0.0
32.5°	453.3	288.8	140.4	0.0
30°	469.3	296.8	144.4	0.0
27.5°	481.4	304.9	144.4	0.0
25°	493.4	312.9	148.4	0.0
22.5°	505.4	316.9	152.4	0.0
20°	517.5	324.9	156.4	0.0
17.5°	525.5	328.9	156.4	0.0
15°	533.5	333.0	164.5	0.0
12.5°	537.5	337.0	164.5	0.0
10°	545.6	345.0	164.5	0.0
7.5°	553.6	345.0	164.5	0.0
5°	553.6	345.0	164.5	0.0
2.5°	553.6	345.0	164.5	0.0
0°	553.6	345.0	164.5	0.0

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