

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: P623853

Luminaire Tested: **IFLD-S-SA6D-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623853
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	39697.4 lumens	Max Intensity:	22047.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.8 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:	17176.7 lumens	Field Lumens:	28126.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

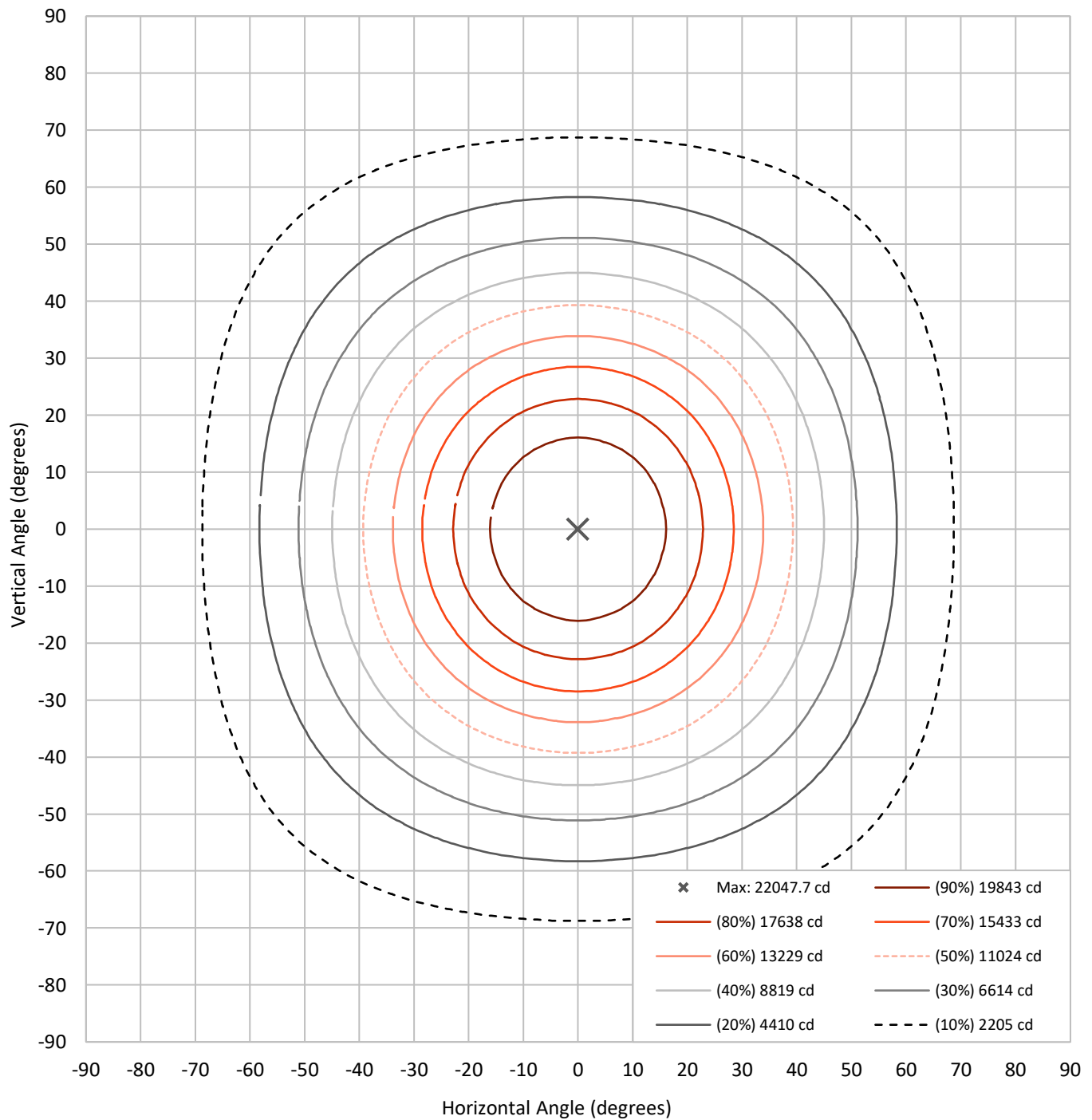
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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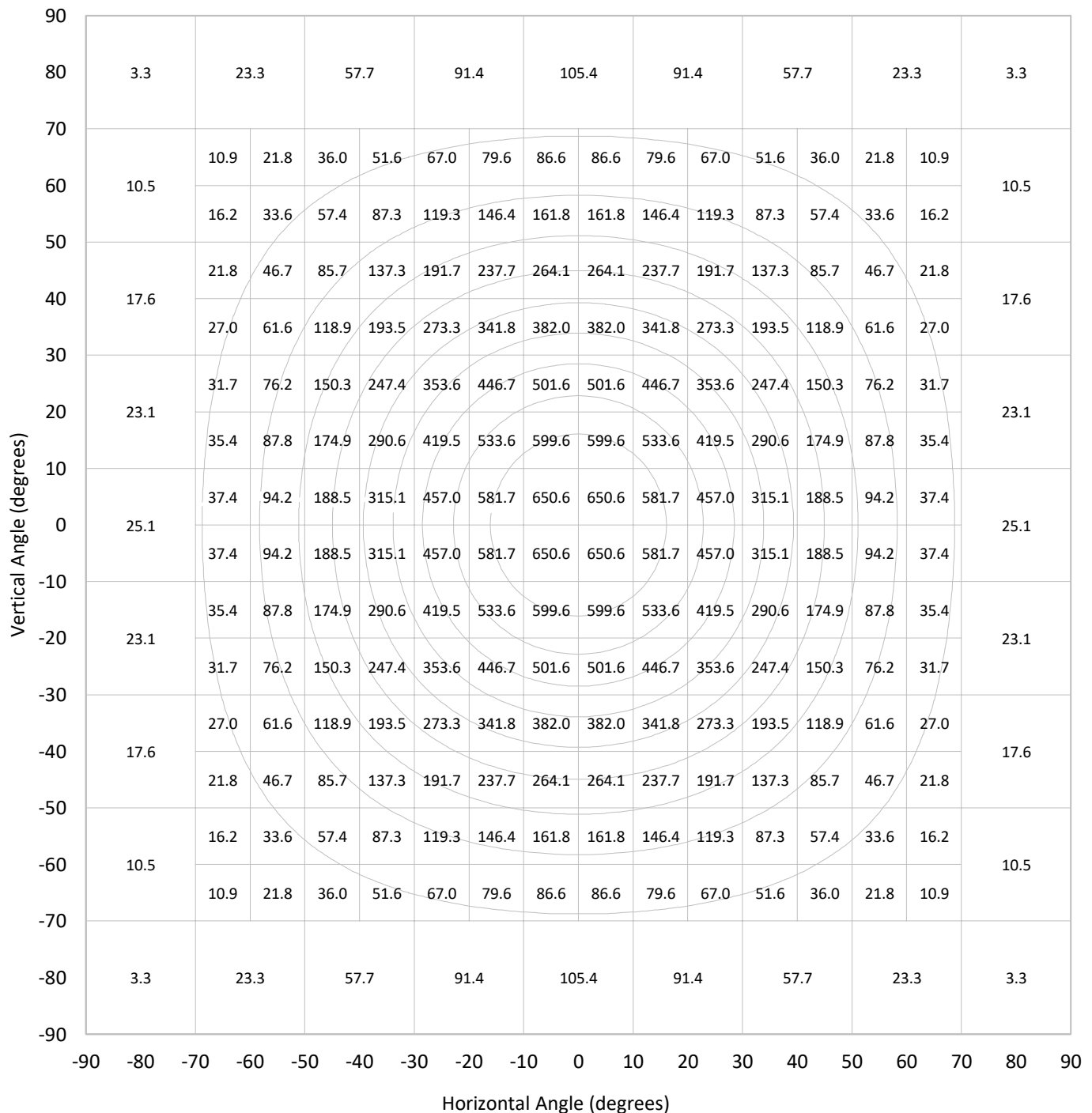
CATALOG NUMBER: IFLD-S-SA6D-727-U-77

Iso-Candela Plot



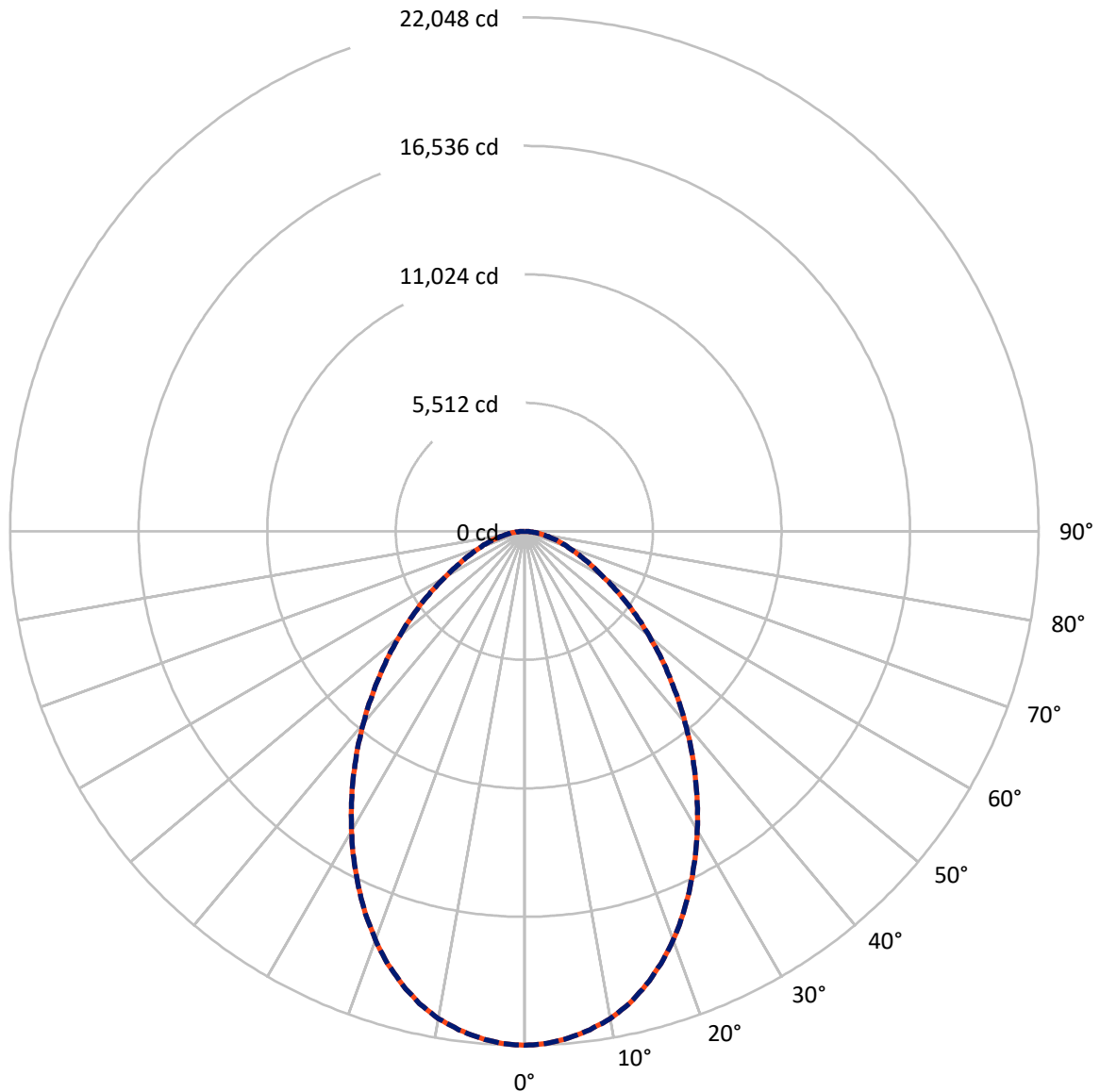
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Lumen Table



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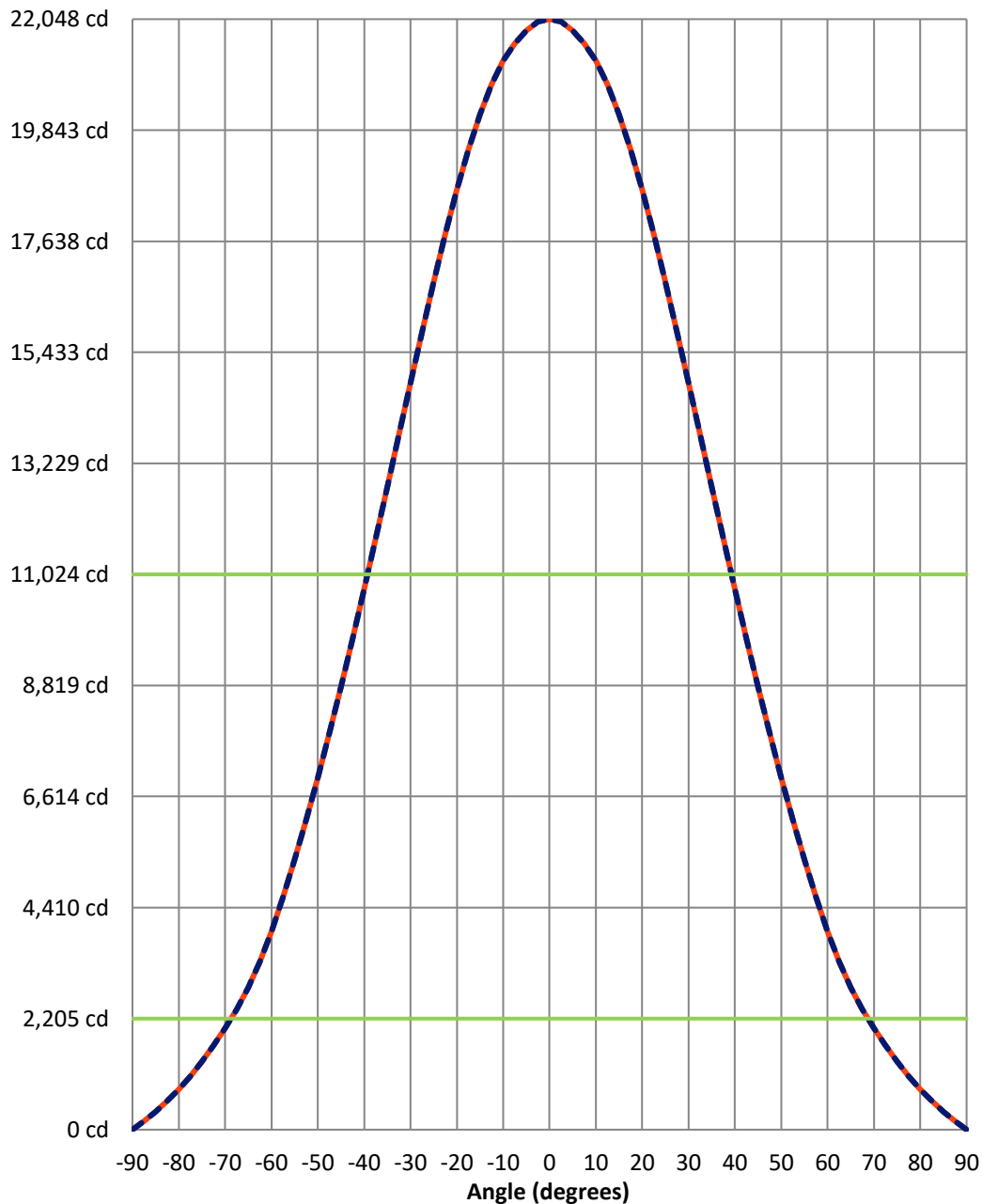
Luminous Intensity Polar Plot



— 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: 17176.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 28126.2
Efficiency: 70.9%

Spill:

Lumens: 11571.2
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°	169.7	169.7	169.7	169.7	169.7	169.7	169.7	161.4	161.4	157.3	153.1
85°	355.9	355.9	355.9	355.9	355.9	347.7	343.5	339.4	335.2	327.0	322.8
82.5°	571.2	571.2	571.2	571.2	562.9	554.6	550.5	542.2	533.9	521.5	509.1
80°	798.8	798.8	798.8	798.8	786.4	778.1	765.7	757.4	745.0	728.4	711.9
77.5°	1059.5	1059.5	1059.5	1047.1	1038.9	1026.4	1014.0	997.5	980.9	960.2	935.4
75°	1353.4	1353.4	1353.4	1336.9	1324.4	1312.0	1291.3	1270.6	1245.8	1216.8	1183.7
72.5°	1672.1	1672.1	1672.1	1651.4	1639.0	1618.3	1593.5	1564.5	1535.5	1498.3	1456.9
70°	2015.6	2015.6	2015.6	1990.8	1970.1	1949.4	1916.3	1883.2	1841.8	1800.4	1750.7
67.5°	2388.1	2388.1	2388.1	2359.2	2334.3	2305.3	2268.1	2226.7	2177.0	2119.1	2061.2
65°	2822.7	2822.7	2806.2	2781.3	2752.3	2711.0	2665.4	2607.5	2545.4	2470.9	2392.3
62.5°	3335.9	3335.9	3311.1	3282.1	3244.9	3191.1	3129.0	3054.5	2967.6	2872.4	2777.2
60°	3931.9	3931.9	3903.0	3865.7	3811.9	3745.7	3662.9	3567.7	3460.1	3340.1	3224.2
57.5°	4619.0	4619.0	4581.7	4532.1	4465.8	4383.1	4279.6	4159.6	4023.0	3874.0	3729.1
55°	5364.0	5364.0	5318.4	5260.5	5181.9	5082.5	4958.4	4817.6	4652.1	4482.4	4296.1
52.5°	6154.5	6154.5	6100.7	6034.5	5943.4	5827.5	5686.8	5521.2	5330.9	5132.2	4912.8
50°	6986.4	6986.4	6924.3	6849.8	6746.4	6609.8	6448.4	6258.0	6046.9	5815.1	5562.6
47.5°	7876.3	7876.3	7805.9	7719.0	7594.8	7437.5	7247.2	7027.8	6787.7	6527.0	6241.4
45°	8791.0	8791.0	8712.3	8613.0	8476.4	8298.4	8087.3	7876.3	7570.0	7267.8	6936.7
42.5°	9742.9	9742.9	9651.8	9540.1	9382.8	9188.3	8948.2	8675.1	8372.9	8033.5	7673.5
40°	10732.1	10732.1	10628.6	10500.3	10326.5	10103.0	9833.9	9527.7	9188.3	8811.6	8414.3
37.5°	11742.0	11742.0	11626.1	11485.4	11290.8	11042.5	10740.4	10401.0	10020.2	9602.2	9163.5
35°	12760.1	12760.1	12631.8	12478.7	12263.5	11990.3	11663.3	11286.7	10864.5	10409.2	9916.7
32.5°	13799.0	13799.0	13658.3	13484.4	13240.2	12938.1	12578.0	12168.3	11742.0	11212.2	10674.1
30°	14825.4	14825.4	14672.3	14481.9	14221.1	13890.0	13496.8	13045.7	12544.9	12002.7	11423.3
27.5°	15835.3	15793.9	15665.6	15462.8	15177.2	14825.4	14399.1	13910.7	13368.5	12772.5	12151.7
25°	16828.6	16783.1	16642.4	16418.9	16112.6	15727.7	15268.3	14746.8	14163.2	13534.1	12855.3
22.5°	17780.6	17730.9	17581.9	17341.9	17014.9	16596.9	16104.3	15545.6	14924.8	14250.1	13534.1
20°	18662.2	18608.3	18455.2	18202.7	17863.3	17420.5	16899.0	16298.9	15636.6	14924.8	14163.2
17.5°	19456.8	19403.0	19241.6	18980.8	18662.2	18169.6	17631.6	16998.3	16298.9	15545.6	14746.8
15°	20156.3	20098.3	19932.8	19672.0	19307.8	18844.3	18277.2	17631.6	16899.0	16104.3	15268.3
12.5°	20752.3	20694.3	20524.6	20263.9	19887.3	19423.7	18844.3	18169.6	17420.5	16596.9	15727.7
10°	21224.1	21166.2	21004.7	20756.4	20367.4	19887.3	19307.8	18662.2	17863.3	17014.9	16112.6
7.5°	21563.5	21509.7	21360.7	21112.4	20756.4	20263.9	19672.0	18980.8	18202.7	17341.9	16418.9
5°	21820.1	21758.0	21609.0	21360.7	21004.7	20524.6	19932.8	19241.6	18455.2	17581.9	16642.4
2.5°	21998.1	21923.6	21758.0	21509.7	21166.2	20694.3	20098.3	19403.0	18608.3	17730.9	16783.1
0°	22047.7	21998.1	21820.1	21563.5	21224.1	20752.3	20156.3	19456.8	18662.2	17780.6	16828.6

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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°	149.0	149.0	144.9	140.7	136.6	128.3	124.2	120.0	115.9	107.6	103.5
85°	314.6	306.3	298.0	289.7	277.3	269.0	256.6	248.3	235.9	223.5	211.1
82.5°	496.7	484.2	467.7	455.3	438.7	418.0	401.5	380.8	360.1	343.5	322.8
80°	695.3	674.6	653.9	633.2	608.4	583.6	558.7	533.9	504.9	476.0	447.0
77.5°	910.6	881.6	852.6	819.5	790.5	757.4	724.3	691.2	653.9	616.7	579.4
75°	1150.6	1113.4	1072.0	1030.6	993.3	947.8	902.3	856.7	807.1	761.6	711.9
72.5°	1411.4	1365.8	1316.2	1266.5	1212.7	1154.7	1096.8	1034.7	976.8	918.8	856.7
70°	1692.8	1639.0	1576.9	1514.8	1448.6	1378.2	1307.9	1233.4	1158.9	1084.4	1009.9
67.5°	1994.9	1928.7	1854.2	1779.7	1696.9	1614.2	1531.4	1444.5	1353.4	1262.4	1175.4
65°	2317.8	2235.0	2148.1	2052.9	1957.7	1862.5	1763.2	1659.7	1556.2	1448.6	1353.4
62.5°	2677.8	2574.4	2462.6	2346.7	2239.1	2123.2	2015.6	1887.3	1763.2	1643.1	1523.1
60°	3095.9	2959.3	2822.7	2677.8	2541.3	2392.3	2259.8	2119.1	1978.4	1841.8	1701.1
57.5°	3563.6	3389.7	3224.2	3050.3	2868.2	2702.7	2533.0	2363.3	2206.0	2044.6	1891.5
55°	4093.3	3882.3	3675.3	3460.1	3249.0	3042.1	2826.8	2636.5	2441.9	2259.8	2081.8
52.5°	4672.8	4432.7	4176.1	3931.9	3662.9	3406.3	3166.2	2926.2	2698.5	2479.2	2276.4
50°	5293.6	5012.2	4718.3	4420.3	4114.0	3811.9	3522.2	3240.7	2975.8	2719.2	2479.2
47.5°	5939.3	5620.6	5285.3	4945.9	4619.0	4250.6	3903.0	3584.3	3265.6	2975.8	2698.5
45°	6601.5	6241.4	5873.1	5488.1	5103.2	4705.9	4321.0	3931.9	3584.3	3240.7	2926.2
42.5°	7284.4	6878.8	6469.0	6042.7	5616.4	5181.9	4747.3	4321.0	3903.0	3522.2	3166.2
40°	7988.0	7541.0	7073.3	6609.8	6154.5	5657.8	5181.9	4705.9	4250.6	3811.9	3406.3
37.5°	8691.6	8203.2	7698.3	7176.8	6655.3	6154.5	5616.4	5103.2	4619.0	4114.0	3662.9
35°	9399.4	8861.3	8315.0	7748.0	7176.8	6609.8	6042.7	5488.1	4945.9	4420.3	3931.9
32.5°	10111.3	9523.5	8919.3	8315.0	7698.3	7073.3	6469.0	5873.1	5285.3	4718.3	4176.1
30°	10810.7	10173.3	9523.5	8861.3	8203.2	7541.0	6878.8	6241.4	5620.6	5012.2	4432.7
27.5°	11493.6	10810.7	10111.3	9399.4	8691.6	7988.0	7284.4	6601.5	5939.3	5293.6	4672.8
25°	12151.7	11423.3	10674.1	9916.7	9163.5	8414.3	7673.5	6936.7	6241.4	5562.6	4912.8
22.5°	12772.5	12002.7	11212.2	10409.2	9602.2	8811.6	8033.5	7267.8	6527.0	5815.1	5132.2
20°	13368.5	12544.9	11742.0	10864.5	10020.2	9188.3	8372.9	7570.0	6787.7	6046.9	5330.9
17.5°	13910.7	13045.7	12168.3	11286.7	10401.0	9527.7	8675.1	7876.3	7027.8	6258.0	5521.2
15°	14399.1	13496.8	12578.0	11663.3	10740.4	9833.9	8948.2	8087.3	7247.2	6448.4	5686.8
12.5°	14825.4	13890.0	12938.1	11990.3	11042.5	10103.0	9188.3	8298.4	7437.5	6609.8	5827.5
10°	15177.2	14221.1	13240.2	12263.5	11290.8	10326.5	9382.8	8476.4	7594.8	6746.4	5943.4
7.5°	15462.8	14481.9	13484.4	12478.7	11485.4	10500.3	9540.1	8613.0	7719.0	6849.8	6034.5
5°	15665.6	14672.3	13658.3	12631.8	11626.1	10628.6	9651.8	8712.3	7805.9	6924.3	6100.7
2.5°	15793.9	14825.4	13799.0	12760.1	11742.0	10732.1	9742.9	8791.0	7876.3	6986.4	6154.5
0°	15835.3	14825.4	13799.0	12760.1	11742.0	10732.1	9742.9	8791.0	7876.3	6986.4	6154.5

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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°	99.3	91.1	82.8	78.6	70.4	66.2	57.9	49.7	45.5	37.2	29.0
85°	198.7	182.1	169.7	157.3	144.9	128.3	115.9	103.5	86.9	74.5	57.9
82.5°	302.1	281.4	260.7	240.1	219.4	198.7	173.8	153.1	132.4	111.7	86.9
80°	418.0	384.9	355.9	327.0	298.0	269.0	235.9	206.9	173.8	144.9	115.9
77.5°	538.1	500.8	459.4	418.0	376.6	339.4	298.0	260.7	223.5	182.1	144.9
75°	666.4	616.7	571.2	517.4	467.7	413.9	364.2	314.6	269.0	223.5	173.8
72.5°	798.8	736.7	674.6	616.7	554.6	492.5	434.6	372.5	314.6	260.7	206.9
70°	935.4	860.9	786.4	716.0	645.7	571.2	504.9	434.6	364.2	298.0	235.9
67.5°	1080.2	993.3	906.4	815.4	736.7	653.9	571.2	492.5	413.9	339.4	269.0
65°	1237.5	1134.0	1026.4	931.2	827.8	736.7	645.7	554.6	467.7	376.6	298.0
62.5°	1398.9	1278.9	1158.9	1038.9	931.2	815.4	716.0	616.7	517.4	418.0	327.0
60°	1564.5	1427.9	1291.3	1158.9	1026.4	906.4	786.4	674.6	571.2	459.4	355.9
57.5°	1734.2	1581.0	1427.9	1278.9	1134.0	993.3	860.9	736.7	616.7	500.8	384.9
55°	1908.0	1734.2	1564.5	1398.9	1237.5	1080.2	935.4	798.8	666.4	538.1	418.0
52.5°	2081.8	1891.5	1701.1	1523.1	1353.4	1175.4	1009.9	856.7	711.9	579.4	447.0
50°	2259.8	2044.6	1841.8	1643.1	1448.6	1262.4	1084.4	918.8	761.6	616.7	476.0
47.5°	2441.9	2206.0	1978.4	1763.2	1556.2	1353.4	1158.9	976.8	807.1	653.9	504.9
45°	2636.5	2363.3	2119.1	1887.3	1659.7	1444.5	1233.4	1034.7	856.7	691.2	533.9
42.5°	2826.8	2533.0	2259.8	2015.6	1763.2	1531.4	1307.9	1096.8	902.3	724.3	558.7
40°	3042.1	2702.7	2392.3	2123.2	1862.5	1614.2	1378.2	1154.7	947.8	757.4	583.6
37.5°	3249.0	2868.2	2541.3	2239.1	1957.7	1696.9	1448.6	1212.7	993.3	790.5	608.4
35°	3460.1	3050.3	2677.8	2346.7	2052.9	1779.7	1514.8	1266.5	1030.6	819.5	633.2
32.5°	3675.3	3224.2	2822.7	2462.6	2148.1	1854.2	1576.9	1316.2	1072.0	852.6	653.9
30°	3882.3	3389.7	2959.3	2574.4	2235.0	1928.7	1639.0	1365.8	1113.4	881.6	674.6
27.5°	4093.3	3563.6	3095.9	2677.8	2317.8	1994.9	1692.8	1411.4	1150.6	910.6	695.3
25°	4296.1	3729.1	3224.2	2777.2	2392.3	2061.2	1750.7	1456.9	1183.7	935.4	711.9
22.5°	4482.4	3874.0	3340.1	2872.4	2470.9	2119.1	1800.4	1498.3	1216.8	960.2	728.4
20°	4652.1	4023.0	3460.1	2967.6	2545.4	2177.0	1841.8	1535.5	1245.8	980.9	745.0
17.5°	4817.6	4159.6	3567.7	3054.5	2607.5	2226.7	1883.2	1564.5	1270.6	997.5	757.4
15°	4958.4	4279.6	3662.9	3129.0	2665.4	2268.1	1916.3	1593.5	1291.3	1014.0	765.7
12.5°	5082.5	4383.1	3745.7	3191.1	2711.0	2305.3	1949.4	1618.3	1312.0	1026.4	778.1
10°	5181.9	4465.8	3811.9	3244.9	2752.3	2334.3	1970.1	1639.0	1324.4	1038.9	786.4
7.5°	5260.5	4532.1	3865.7	3282.1	2781.3	2359.2	1990.8	1651.4	1336.9	1047.1	798.8
5°	5318.4	4581.7	3903.0	3311.1	2806.2	2388.1	2015.6	1672.1	1353.4	1059.5	798.8
2.5°	5364.0	4619.0	3931.9	3335.9	2822.7	2388.1	2015.6	1672.1	1353.4	1059.5	798.8
0°	5364.0	4619.0	3931.9	3335.9	2822.7	2388.1	2015.6	1672.1	1353.4	1059.5	798.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.7	16.6	8.3	0.0
85°	45.5	29.0	16.6	0.0
82.5°	66.2	45.5	20.7	0.0
80°	86.9	57.9	29.0	0.0
77.5°	111.7	74.5	37.2	0.0
75°	132.4	86.9	45.5	0.0
72.5°	153.1	103.5	49.7	0.0
70°	173.8	115.9	57.9	0.0
67.5°	198.7	128.3	66.2	0.0
65°	219.4	144.9	70.4	0.0
62.5°	240.1	157.3	78.6	0.0
60°	260.7	169.7	82.8	0.0
57.5°	281.4	182.1	91.1	0.0
55°	302.1	198.7	99.3	0.0
52.5°	322.8	211.1	103.5	0.0
50°	343.5	223.5	107.6	0.0
47.5°	360.1	235.9	115.9	0.0
45°	380.8	248.3	120.0	0.0
42.5°	401.5	256.6	124.2	0.0
40°	418.0	269.0	128.3	0.0
37.5°	438.7	277.3	136.6	0.0
35°	455.3	289.7	140.7	0.0
32.5°	467.7	298.0	144.9	0.0
30°	484.2	306.3	149.0	0.0
27.5°	496.7	314.6	149.0	0.0
25°	509.1	322.8	153.1	0.0
22.5°	521.5	327.0	157.3	0.0
20°	533.9	335.2	161.4	0.0
17.5°	542.2	339.4	161.4	0.0
15°	550.5	343.5	169.7	0.0
12.5°	554.6	347.7	169.7	0.0
10°	562.9	355.9	169.7	0.0
7.5°	571.2	355.9	169.7	0.0
5°	571.2	355.9	169.7	0.0
2.5°	571.2	355.9	169.7	0.0
0°	571.2	355.9	169.7	0.0

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