

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: P623954

Luminaire Tested: **IFLD-L-SA8C-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623954
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

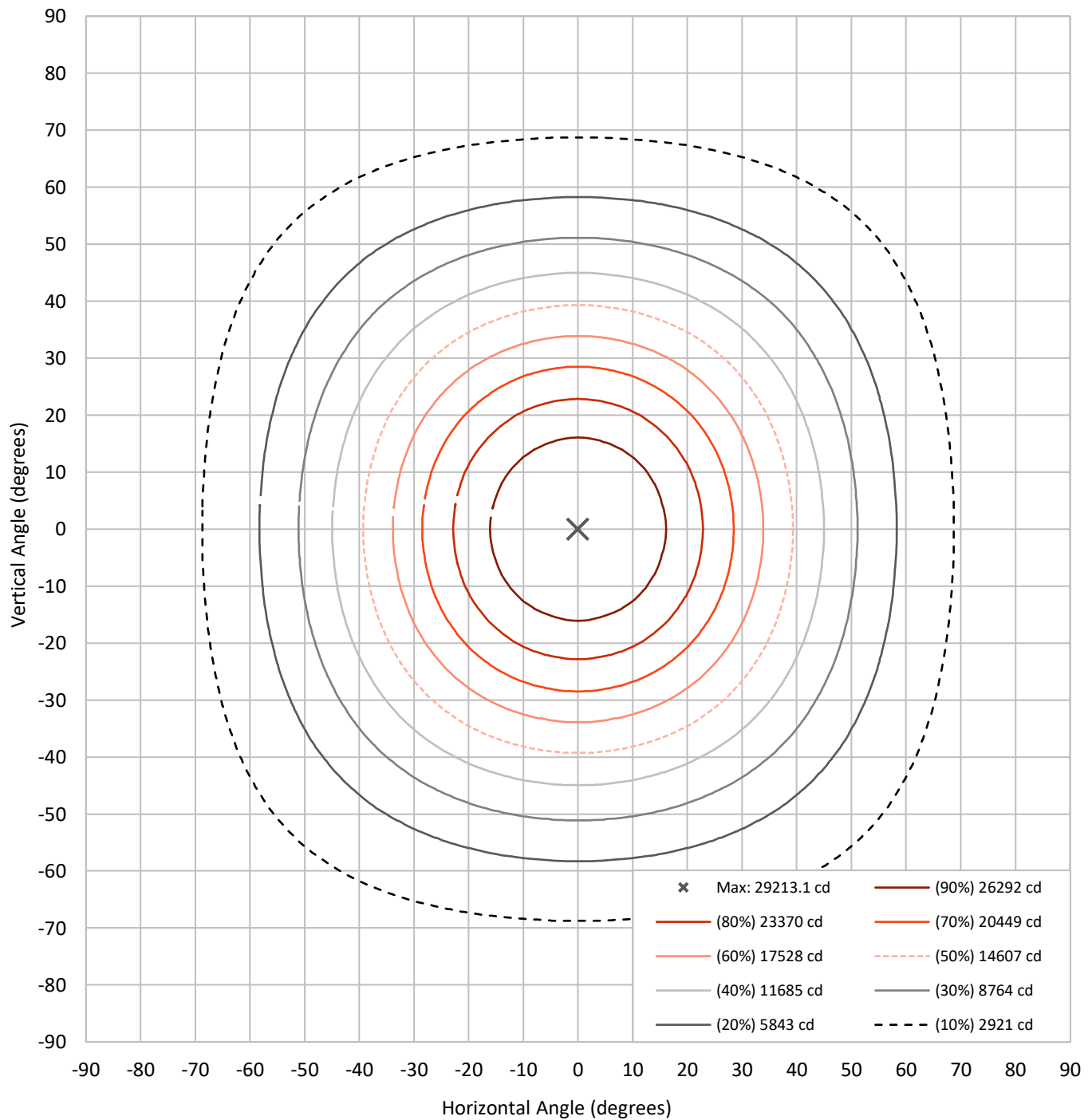
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	52598.8 lumens	Max Intensity:	29213.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	125.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	22759 lumens	Field Lumens:	37267.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	420.3		
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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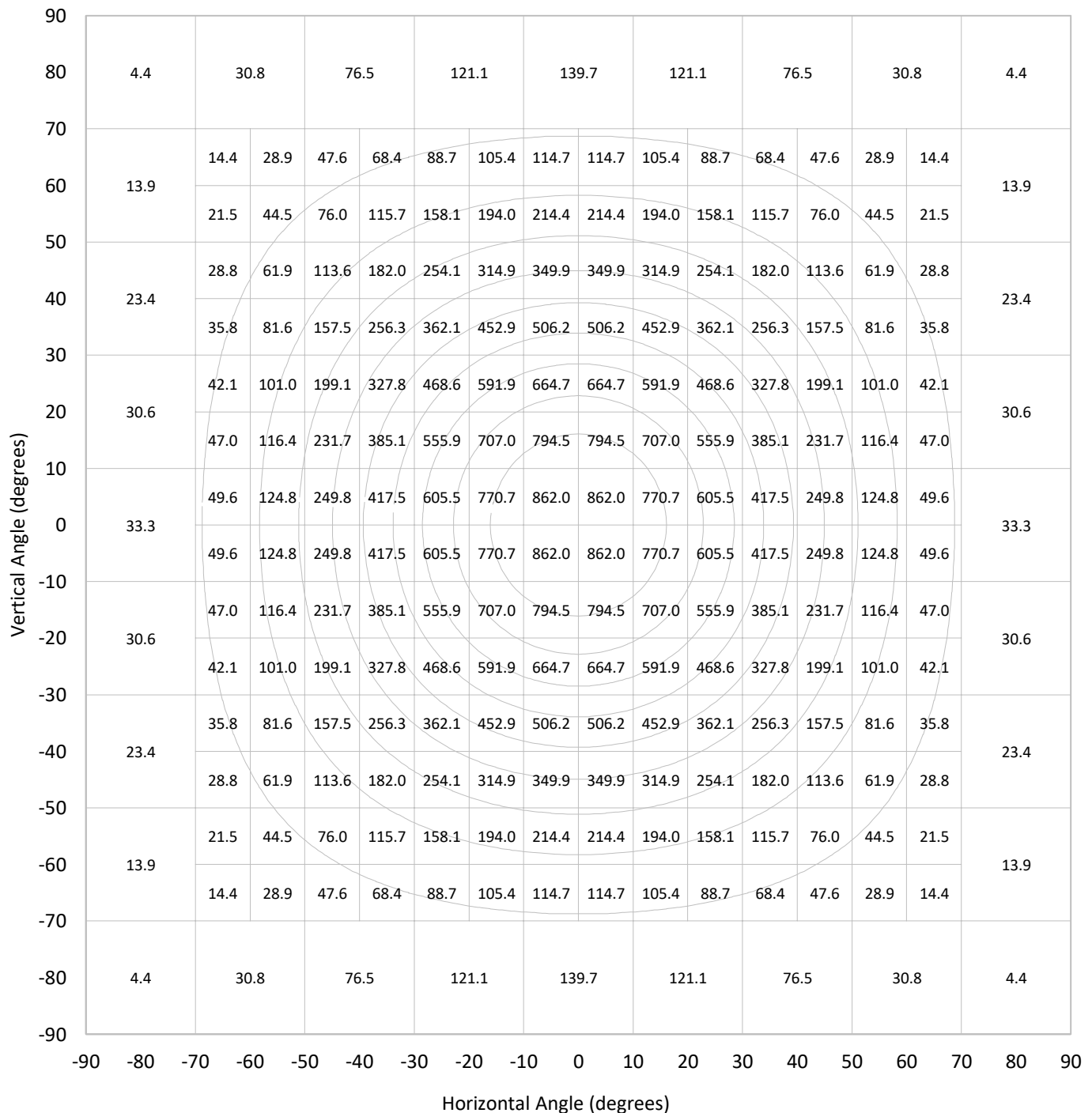
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Iso-Candela Plot



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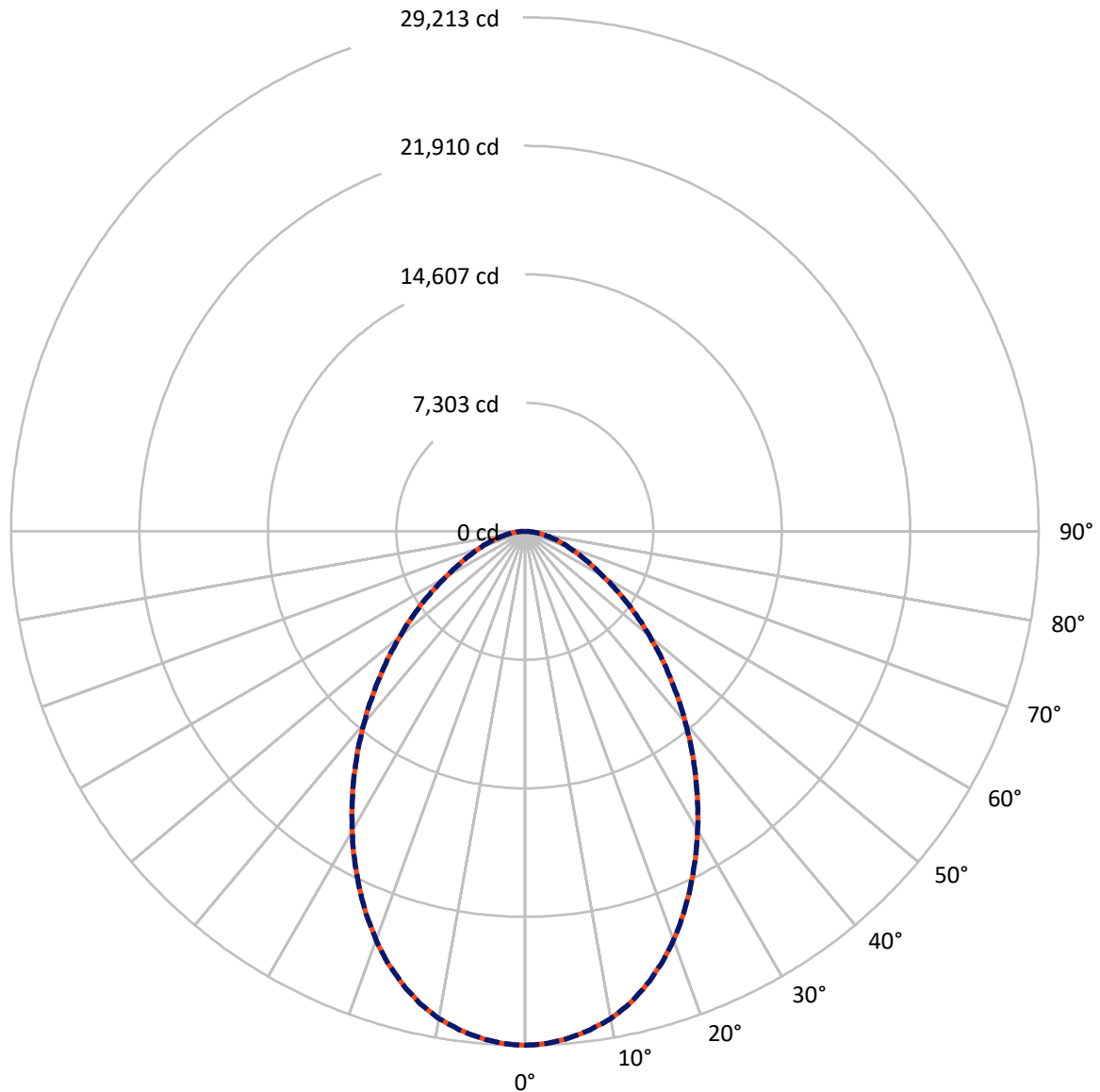
Lumen Table



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Luminous Intensity Polar Plot

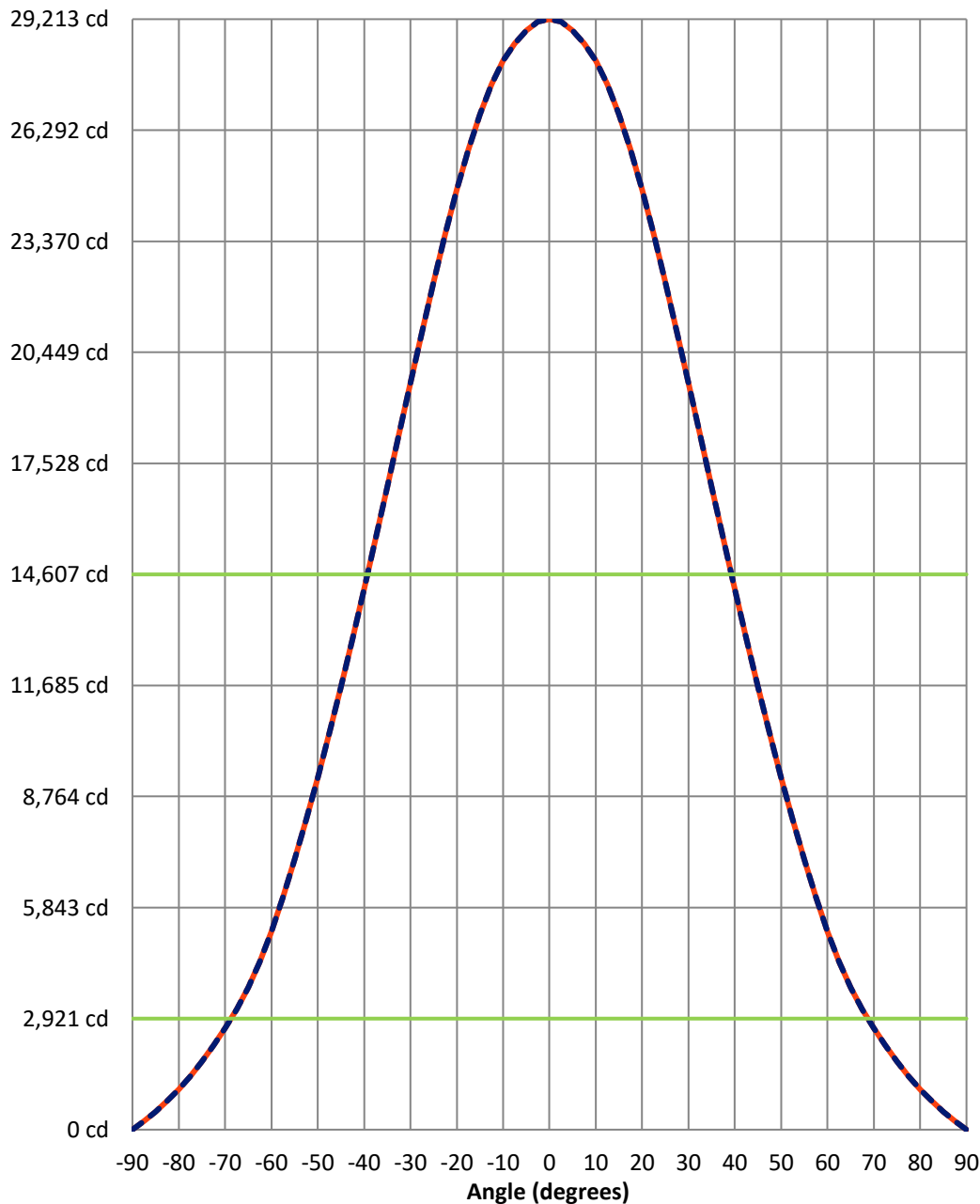


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 22759
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 37267.1
Efficiency: 70.9%

Spill:

Lumens: 15331.8
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°	224.8	224.8	224.8	224.8	224.8	224.8	224.8	213.9	213.9	208.4	202.9
85°	471.6	471.6	471.6	471.6	471.6	460.7	455.2	449.7	444.2	433.2	427.7
82.5°	756.8	756.8	756.8	756.8	745.8	734.9	729.4	718.4	707.4	691.0	674.5
80°	1058.4	1058.4	1058.4	1058.4	1042.0	1031.0	1014.5	1003.6	987.1	965.2	943.2
77.5°	1403.9	1403.9	1403.9	1387.4	1376.5	1360.0	1343.6	1321.6	1299.7	1272.3	1239.4
75°	1793.3	1793.3	1793.3	1771.3	1754.9	1738.4	1711.0	1683.6	1650.7	1612.3	1568.4
72.5°	2215.5	2215.5	2215.5	2188.1	2171.7	2144.2	2111.3	2072.9	2034.6	1985.2	1930.4
70°	2670.7	2670.7	2670.7	2637.8	2610.4	2582.9	2539.1	2495.2	2440.4	2385.5	2319.7
67.5°	3164.2	3164.2	3164.2	3125.9	3093.0	3054.6	3005.2	2950.4	2884.6	2807.8	2731.0
65°	3740.1	3740.1	3718.1	3685.2	3646.8	3592.0	3531.7	3454.9	3372.6	3273.9	3169.7
62.5°	4420.1	4420.1	4387.2	4348.8	4299.4	4228.1	4145.9	4047.2	3932.0	3805.9	3679.7
60°	5209.8	5209.8	5171.4	5122.0	5050.7	4963.0	4853.3	4727.2	4584.6	4425.6	4272.0
57.5°	6120.1	6120.1	6070.8	6004.9	5917.2	5807.5	5670.4	5511.4	5330.4	5133.0	4941.1
55°	7107.2	7107.2	7046.9	6970.1	6865.9	6734.3	6569.8	6383.3	6164.0	5939.1	5692.4
52.5°	8154.7	8154.7	8083.4	7995.6	7875.0	7721.4	7535.0	7315.6	7063.4	6800.1	6509.5
50°	9256.9	9256.9	9174.7	9076.0	8938.9	8757.9	8544.0	8291.8	8012.1	7705.0	7370.5
47.5°	10436.0	10436.0	10342.8	10227.6	10063.1	9854.7	9602.4	9311.8	8993.7	8648.2	8269.8
45°	11647.9	11647.9	11543.8	11412.1	11231.2	10995.4	10715.7	10436.0	10030.2	9629.8	9191.1
42.5°	12909.3	12909.3	12788.6	12640.5	12432.2	12174.4	11856.3	11494.4	11094.1	10644.4	10167.3
40°	14219.9	14219.9	14082.8	13912.8	13682.5	13386.4	13029.9	12624.1	12174.4	11675.4	11148.9
37.5°	15558.0	15558.0	15404.5	15218.0	14960.3	14631.2	14230.9	13781.2	13276.7	12722.8	12141.5
35°	16907.1	16907.1	16737.1	16534.2	16249.0	15887.1	15453.8	14954.8	14395.4	13792.2	13139.6
32.5°	18283.5	18283.5	18097.1	17866.8	17543.2	17142.9	16665.8	16122.9	15558.0	14856.1	14143.2
30°	19643.6	19643.6	19440.7	19188.4	18842.9	18404.2	17883.2	17285.5	16621.9	15903.5	15135.8
27.5°	20981.7	20926.8	20756.8	20488.1	20109.7	19643.6	19078.7	18431.6	17713.2	16923.5	16100.9
25°	22297.8	22237.5	22051.0	21754.9	21349.1	20839.1	20230.4	19539.4	18766.1	17932.6	17033.2
22.5°	23559.1	23493.3	23295.9	22977.8	22544.6	21990.7	21338.1	20597.8	19775.2	18881.3	17932.6
20°	24727.2	24655.9	24453.0	24118.5	23668.8	23082.0	22391.0	21595.9	20718.4	19775.2	18766.1
17.5°	25780.1	25708.8	25495.0	25149.5	24727.2	24074.6	23361.7	22522.7	21595.9	20597.8	19539.4
15°	26706.9	26630.1	26410.8	26065.3	25582.7	24968.5	24217.2	23361.7	22391.0	21338.1	20230.4
12.5°	27496.6	27419.8	27195.0	26849.5	26350.5	25736.3	24968.5	24074.6	23082.0	21990.7	20839.1
10°	28121.8	28045.0	27831.1	27502.1	26986.6	26350.5	25582.7	24727.2	23668.8	22544.6	21349.1
7.5°	28571.5	28500.2	28302.8	27973.7	27502.1	26849.5	26065.3	25149.5	24118.5	22977.8	21754.9
5°	28911.5	28829.2	28631.8	28302.8	27831.1	27195.0	26410.8	25495.0	24453.0	23295.9	22051.0
2.5°	29147.3	29048.6	28829.2	28500.2	28045.0	27419.8	26630.1	25708.8	24655.9	23493.3	22237.5
0°	29213.1	29147.3	28911.5	28571.5	28121.8	27496.6	26706.9	25780.1	24727.2	23559.1	22297.8

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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°	197.4	197.4	191.9	186.5	181.0	170.0	164.5	159.0	153.6	142.6	137.1
85°	416.8	405.8	394.8	383.9	367.4	356.5	340.0	329.0	312.6	296.1	279.7
82.5°	658.1	641.6	619.7	603.2	581.3	553.9	531.9	504.5	477.1	455.2	427.7
80°	921.3	893.9	866.5	839.0	806.1	773.2	740.3	707.4	669.0	630.7	592.3
77.5°	1206.5	1168.1	1129.7	1085.8	1047.4	1003.6	959.7	915.8	866.5	817.1	767.8
75°	1524.5	1475.2	1420.3	1365.5	1316.2	1255.8	1195.5	1135.2	1069.4	1009.1	943.2
72.5°	1870.0	1809.7	1743.9	1678.1	1606.8	1530.0	1453.3	1371.0	1294.2	1217.4	1135.2
70°	2242.9	2171.7	2089.4	2007.1	1919.4	1826.2	1732.9	1634.2	1535.5	1436.8	1338.1
67.5°	2643.3	2555.5	2456.8	2358.1	2248.4	2138.7	2029.1	1913.9	1793.3	1672.6	1557.4
65°	3071.0	2961.3	2846.2	2720.0	2593.9	2467.8	2336.2	2199.1	2062.0	1919.4	1793.3
62.5°	3548.1	3411.0	3263.0	3109.4	2966.8	2813.3	2670.7	2500.7	2336.2	2177.1	2018.1
60°	4102.0	3921.0	3740.1	3548.1	3367.2	3169.7	2994.2	2807.8	2621.3	2440.4	2253.9
57.5°	4721.7	4491.4	4272.0	4041.7	3800.4	3581.0	3356.2	3131.3	2923.0	2709.1	2506.2
55°	5423.6	5144.0	4869.8	4584.6	4304.9	4030.7	3745.6	3493.3	3235.5	2994.2	2758.4
52.5°	6191.4	5873.3	5533.3	5209.8	4853.3	4513.3	4195.2	3877.2	3575.5	3284.9	3016.2
50°	7014.0	6641.1	6251.7	5856.9	5451.1	5050.7	4666.9	4293.9	3943.0	3603.0	3284.9
47.5°	7869.5	7447.2	7003.0	6553.3	6120.1	5632.0	5171.4	4749.1	4326.9	3943.0	3575.5
45°	8746.9	8269.8	7781.8	7271.7	6761.7	6235.3	5725.3	5209.8	4749.1	4293.9	3877.2
42.5°	9651.8	9114.4	8571.4	8006.6	7441.7	6865.9	6290.1	5725.3	5171.4	4666.9	4195.2
40°	10584.1	9991.8	9372.1	8757.9	8154.7	7496.6	6865.9	6235.3	5632.0	5050.7	4513.3
37.5°	11516.3	10869.2	10200.2	9509.2	8818.2	8154.7	7441.7	6761.7	6120.1	5451.1	4853.3
35°	12454.1	11741.2	11017.3	10266.0	9509.2	8757.9	8006.6	7271.7	6553.3	5856.9	5209.8
32.5°	13397.3	12618.6	11818.0	11017.3	10200.2	9372.1	8571.4	7781.8	7003.0	6251.7	5533.3
30°	14324.1	13479.6	12618.6	11741.2	10869.2	9991.8	9114.4	8269.8	7447.2	6641.1	5873.3
27.5°	15229.0	14324.1	13397.3	12454.1	11516.3	10584.1	9651.8	8746.9	7869.5	7014.0	6191.4
25°	16100.9	15135.8	14143.2	13139.6	12141.5	11148.9	10167.3	9191.1	8269.8	7370.5	6509.5
22.5°	16923.5	15903.5	14856.1	13792.2	12722.8	11675.4	10644.4	9629.8	8648.2	7705.0	6800.1
20°	17713.2	16621.9	15558.0	14395.4	13276.7	12174.4	11094.1	10030.2	8993.7	8012.1	7063.4
17.5°	18431.6	17285.5	16122.9	14954.8	13781.2	12624.1	11494.4	10436.0	9311.8	8291.8	7315.6
15°	19078.7	17883.2	16665.8	15453.8	14230.9	13029.9	11856.3	10715.7	9602.4	8544.0	7535.0
12.5°	19643.6	18404.2	17142.9	15887.1	14631.2	13386.4	12174.4	10995.4	9854.7	8757.9	7721.4
10°	20109.7	18842.9	17543.2	16249.0	14960.3	13682.5	12432.2	11231.2	10063.1	8938.9	7875.0
7.5°	20488.1	19188.4	17866.8	16534.2	15218.0	13912.8	12640.5	11412.1	10227.6	9076.0	7995.6
5°	20756.8	19440.7	18097.1	16737.1	15404.5	14082.8	12788.6	11543.8	10342.8	9174.7	8083.4
2.5°	20926.8	19643.6	18283.5	16907.1	15558.0	14219.9	12909.3	11647.9	10436.0	9256.9	8154.7
0°	20981.7	19643.6	18283.5	16907.1	15558.0	14219.9	12909.3	11647.9	10436.0	9256.9	8154.7

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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°	131.6	120.6	109.7	104.2	93.2	87.7	76.8	65.8	60.3	49.4	38.4
85°	263.2	241.3	224.8	208.4	191.9	170.0	153.6	137.1	115.2	98.7	76.8
82.5°	400.3	372.9	345.5	318.1	290.7	263.2	230.3	202.9	175.5	148.1	115.2
80°	553.9	510.0	471.6	433.2	394.8	356.5	312.6	274.2	230.3	191.9	153.6
77.5°	712.9	663.6	608.7	553.9	499.0	449.7	394.8	345.5	296.1	241.3	191.9
75°	882.9	817.1	756.8	685.5	619.7	548.4	482.6	416.8	356.5	296.1	230.3
72.5°	1058.4	976.1	893.9	817.1	734.9	652.6	575.8	493.6	416.8	345.5	274.2
70°	1239.4	1140.7	1042.0	948.7	855.5	756.8	669.0	575.8	482.6	394.8	312.6
67.5°	1431.3	1316.2	1201.0	1080.3	976.1	866.5	756.8	652.6	548.4	449.7	356.5
65°	1639.7	1502.6	1360.0	1233.9	1096.8	976.1	855.5	734.9	619.7	499.0	394.8
62.5°	1853.6	1694.5	1535.5	1376.5	1233.9	1080.3	948.7	817.1	685.5	553.9	433.2
60°	2072.9	1892.0	1711.0	1535.5	1360.0	1201.0	1042.0	893.9	756.8	608.7	471.6
57.5°	2297.8	2094.9	1892.0	1694.5	1502.6	1316.2	1140.7	976.1	817.1	663.6	510.0
55°	2528.1	2297.8	2072.9	1853.6	1639.7	1431.3	1239.4	1058.4	882.9	712.9	553.9
52.5°	2758.4	2506.2	2253.9	2018.1	1793.3	1557.4	1338.1	1135.2	943.2	767.8	592.3
50°	2994.2	2709.1	2440.4	2177.1	1919.4	1672.6	1436.8	1217.4	1009.1	817.1	630.7
47.5°	3235.5	2923.0	2621.3	2336.2	2062.0	1793.3	1535.5	1294.2	1069.4	866.5	669.0
45°	3493.3	3131.3	2807.8	2500.7	2199.1	1913.9	1634.2	1371.0	1135.2	915.8	707.4
42.5°	3745.6	3356.2	2994.2	2670.7	2336.2	2029.1	1732.9	1453.3	1195.5	959.7	740.3
40°	4030.7	3581.0	3169.7	2813.3	2467.8	2138.7	1826.2	1530.0	1255.8	1003.6	773.2
37.5°	4304.9	3800.4	3367.2	2966.8	2593.9	2248.4	1919.4	1606.8	1316.2	1047.4	806.1
35°	4584.6	4041.7	3548.1	3109.4	2720.0	2358.1	2007.1	1678.1	1365.5	1085.8	839.0
32.5°	4869.8	4272.0	3740.1	3263.0	2846.2	2456.8	2089.4	1743.9	1420.3	1129.7	866.5
30°	5144.0	4491.4	3921.0	3411.0	2961.3	2555.5	2171.7	1809.7	1475.2	1168.1	893.9
27.5°	5423.6	4721.7	4102.0	3548.1	3071.0	2643.3	2242.9	1870.0	1524.5	1206.5	921.3
25°	5692.4	4941.1	4272.0	3679.7	3169.7	2731.0	2319.7	1930.4	1568.4	1239.4	943.2
22.5°	5939.1	5133.0	4425.6	3805.9	3273.9	2807.8	2385.5	1985.2	1612.3	1272.3	965.2
20°	6164.0	5330.4	4584.6	3932.0	3372.6	2884.6	2440.4	2034.6	1650.7	1299.7	987.1
17.5°	6383.3	5511.4	4727.2	4047.2	3454.9	2950.4	2495.2	2072.9	1683.6	1321.6	1003.6
15°	6569.8	5670.4	4853.3	4145.9	3531.7	3005.2	2539.1	2111.3	1711.0	1343.6	1014.5
12.5°	6734.3	5807.5	4963.0	4228.1	3592.0	3054.6	2582.9	2144.2	1738.4	1360.0	1031.0
10°	6865.9	5917.2	5050.7	4299.4	3646.8	3093.0	2610.4	2171.7	1754.9	1376.5	1042.0
7.5°	6970.1	6004.9	5122.0	4348.8	3685.2	3125.9	2637.8	2188.1	1771.3	1387.4	1058.4
5°	7046.9	6070.8	5171.4	4387.2	3718.1	3164.2	2670.7	2215.5	1793.3	1403.9	1058.4
2.5°	7107.2	6120.1	5209.8	4420.1	3740.1	3164.2	2670.7	2215.5	1793.3	1403.9	1058.4
0°	7107.2	6120.1	5209.8	4420.1	3740.1	3164.2	2670.7	2215.5	1793.3	1403.9	1058.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.4	21.9	11.0	0.0
85°	60.3	38.4	21.9	0.0
82.5°	87.7	60.3	27.4	0.0
80°	115.2	76.8	38.4	0.0
77.5°	148.1	98.7	49.4	0.0
75°	175.5	115.2	60.3	0.0
72.5°	202.9	137.1	65.8	0.0
70°	230.3	153.6	76.8	0.0
67.5°	263.2	170.0	87.7	0.0
65°	290.7	191.9	93.2	0.0
62.5°	318.1	208.4	104.2	0.0
60°	345.5	224.8	109.7	0.0
57.5°	372.9	241.3	120.6	0.0
55°	400.3	263.2	131.6	0.0
52.5°	427.7	279.7	137.1	0.0
50°	455.2	296.1	142.6	0.0
47.5°	477.1	312.6	153.6	0.0
45°	504.5	329.0	159.0	0.0
42.5°	531.9	340.0	164.5	0.0
40°	553.9	356.5	170.0	0.0
37.5°	581.3	367.4	181.0	0.0
35°	603.2	383.9	186.5	0.0
32.5°	619.7	394.8	191.9	0.0
30°	641.6	405.8	197.4	0.0
27.5°	658.1	416.8	197.4	0.0
25°	674.5	427.7	202.9	0.0
22.5°	691.0	433.2	208.4	0.0
20°	707.4	444.2	213.9	0.0
17.5°	718.4	449.7	213.9	0.0
15°	729.4	455.2	224.8	0.0
12.5°	734.9	460.7	224.8	0.0
10°	745.8	471.6	224.8	0.0
7.5°	756.8	471.6	224.8	0.0
5°	756.8	471.6	224.8	0.0
2.5°	756.8	471.6	224.8	0.0
0°	756.8	471.6	224.8	0.0

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