

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: P624580

Luminaire Tested: **IFLD-L-SA8C-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624580
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

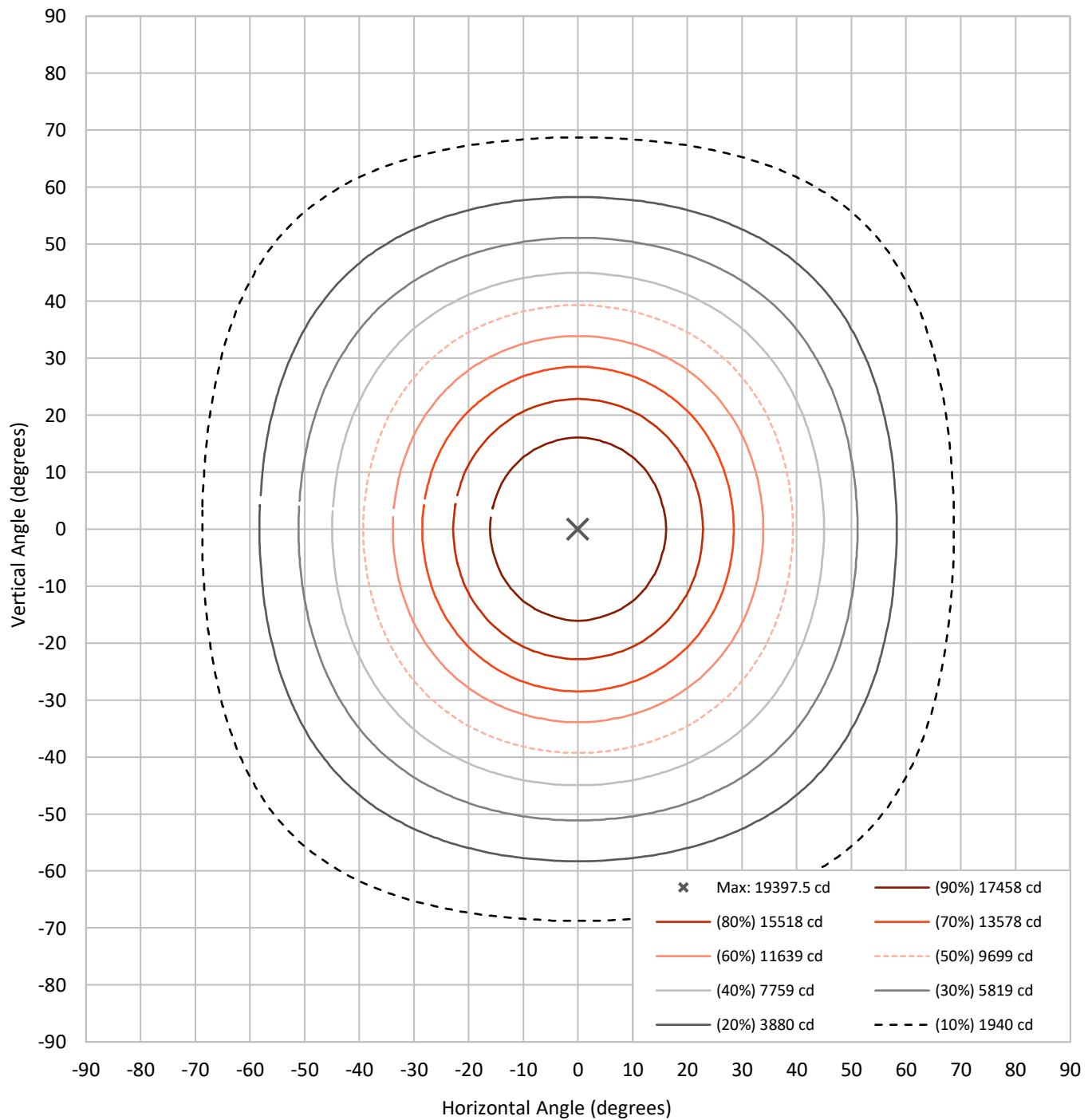
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34925.6 lumens	Max Intensity:	19397.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15112 lumens	Field Lumens:	24745.3 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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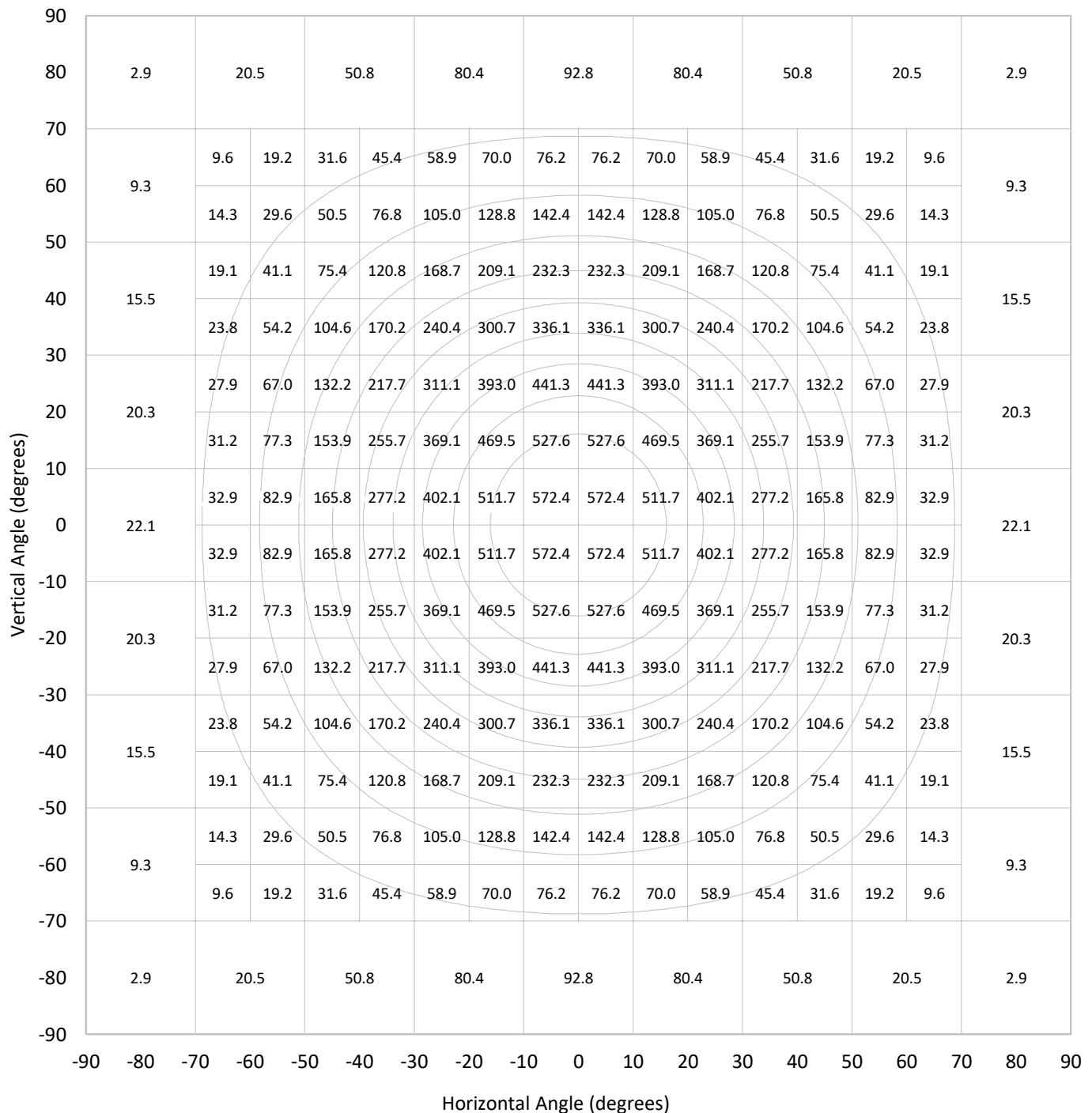
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Iso-Candela Plot



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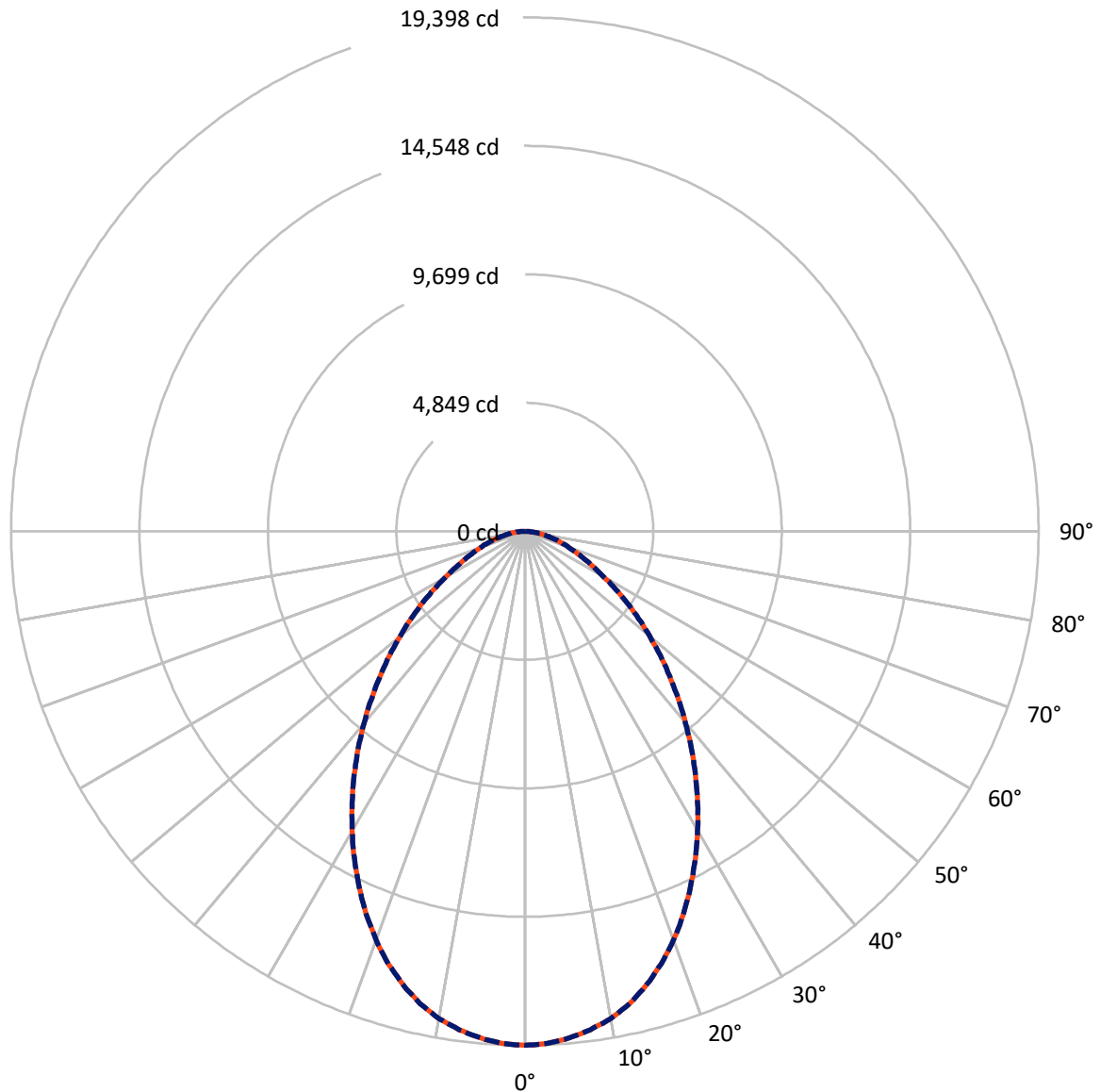
Lumen Table



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Luminous Intensity Polar Plot



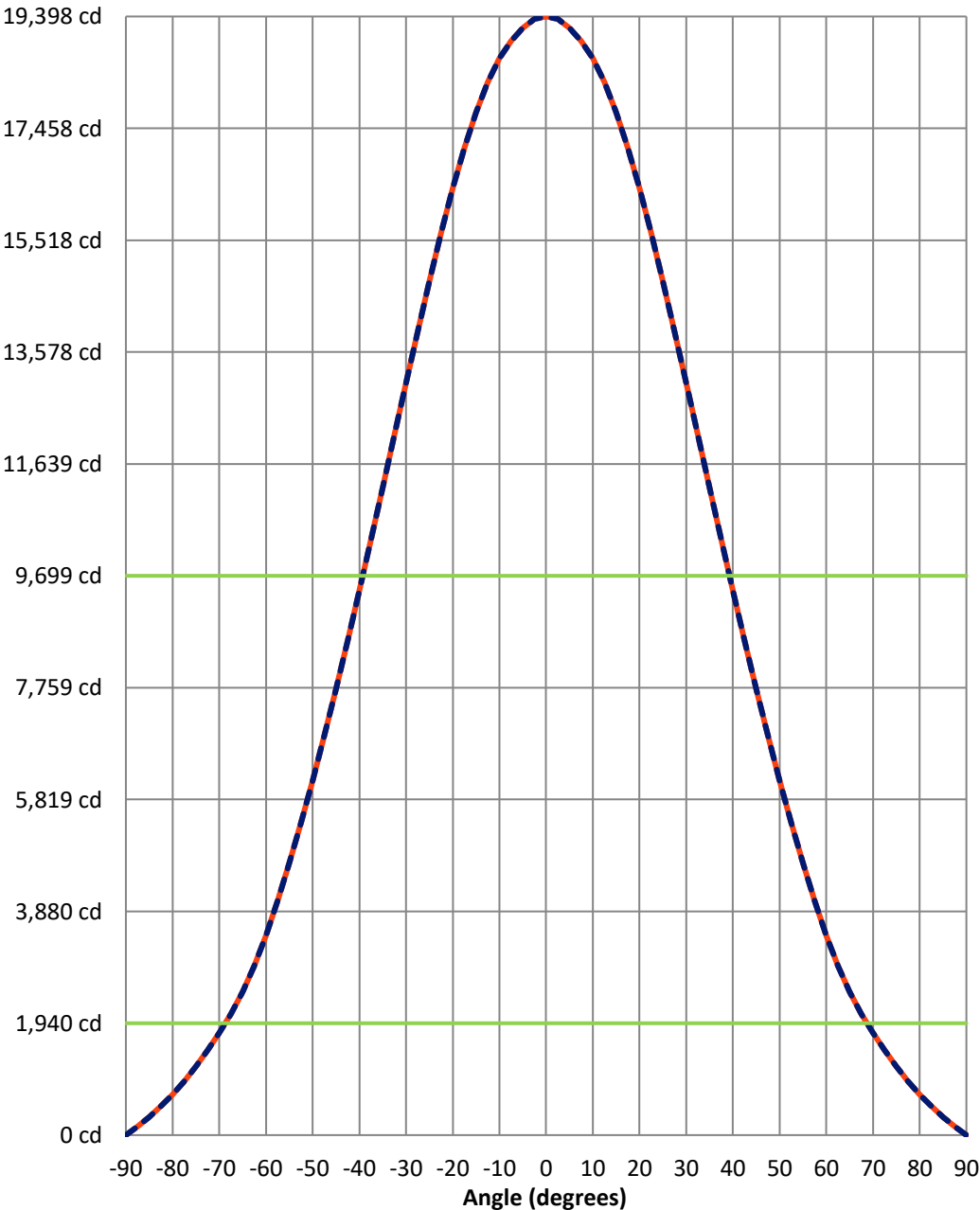
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 15112
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 24745.3
Efficiency: 70.9%

Spill:
Lumens: 10180.3
Efficiency: 29.1%

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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°	149.3	149.3	149.3	149.3	149.3	149.3	149.3	142.0	142.0	138.4	134.7
85°	313.2	313.2	313.2	313.2	313.2	305.9	302.2	298.6	294.9	287.7	284.0
82.5°	502.5	502.5	502.5	502.5	495.2	487.9	484.3	477.0	469.7	458.8	447.9
80°	702.8	702.8	702.8	702.8	691.9	684.6	673.7	666.4	655.4	640.9	626.3
77.5°	932.2	932.2	932.2	921.3	914.0	903.1	892.1	877.6	863.0	844.8	822.9
75°	1190.7	1190.7	1190.7	1176.2	1165.2	1154.3	1136.1	1117.9	1096.0	1070.6	1041.4
72.5°	1471.1	1471.1	1471.1	1452.9	1442.0	1423.8	1401.9	1376.4	1350.9	1318.2	1281.8
70°	1773.3	1773.3	1773.3	1751.5	1733.3	1715.1	1685.9	1656.8	1620.4	1584.0	1540.3
67.5°	2101.1	2101.1	2101.1	2075.6	2053.7	2028.2	1995.5	1959.0	1915.4	1864.4	1813.4
65°	2483.4	2483.4	2468.8	2447.0	2421.5	2385.1	2345.0	2294.1	2239.4	2173.9	2104.7
62.5°	2934.9	2934.9	2913.1	2887.6	2854.8	2807.5	2752.9	2687.3	2610.9	2527.1	2443.3
60°	3459.3	3459.3	3433.8	3401.0	3353.7	3295.4	3222.6	3138.8	3044.2	2938.6	2836.6
57.5°	4063.8	4063.8	4031.0	3987.3	3929.0	3856.2	3765.2	3659.6	3539.4	3408.3	3280.9
55°	4719.2	4719.2	4679.1	4628.2	4559.0	4471.6	4362.3	4238.5	4092.9	3943.6	3779.7
52.5°	5414.7	5414.7	5367.4	5309.1	5229.0	5127.0	5003.2	4857.6	4690.1	4515.3	4322.3
50°	6146.6	6146.6	6092.0	6026.4	5935.4	5815.2	5673.2	5505.7	5320.0	5116.1	4894.0
47.5°	6929.5	6929.5	6867.6	6791.1	6681.9	6543.5	6376.0	6183.0	5971.8	5742.4	5491.2
45°	7734.2	7734.2	7665.1	7577.7	7457.5	7300.9	7115.2	6929.5	6660.0	6394.2	6102.9
42.5°	8571.7	8571.7	8491.6	8393.3	8255.0	8083.8	7872.6	7632.3	7366.5	7067.9	6751.1
40°	9442.0	9442.0	9351.0	9238.1	9085.2	8888.5	8651.9	8382.4	8083.8	7752.4	7402.9
37.5°	10330.5	10330.5	10228.6	10104.8	9933.6	9715.1	9449.3	9150.7	8815.7	8447.9	8062.0
35°	11226.3	11226.3	11113.4	10978.7	10789.3	10549.0	10261.3	9930.0	9558.6	9158.0	8724.7
32.5°	12140.3	12140.3	12016.5	11863.5	11648.7	11382.9	11066.1	10705.6	10330.5	9864.4	9391.1
30°	13043.3	13043.3	12908.6	12741.1	12511.7	12220.4	11874.5	11477.6	11036.9	10559.9	10050.1
27.5°	13931.8	13895.4	13782.5	13604.1	13352.8	13043.3	12668.3	12238.6	11761.6	11237.2	10691.0
25°	14805.7	14765.7	14641.9	14445.3	14175.8	13837.1	13433.0	12974.1	12460.7	11907.2	11310.0
22.5°	15643.3	15599.6	15468.5	15257.3	14969.6	14601.8	14168.5	13676.9	13130.7	12537.2	11907.2
20°	16418.9	16371.5	16236.8	16014.7	15716.1	15326.5	14867.7	14339.7	13757.0	13130.7	12460.7
17.5°	17118.0	17070.7	16928.7	16699.3	16418.9	15985.5	15512.2	14955.0	14339.7	13676.9	12974.1
15°	17733.4	17682.4	17536.8	17307.4	16986.9	16579.1	16080.2	15512.2	14867.7	14168.5	13433.0
12.5°	18257.8	18206.8	18057.5	17828.1	17496.7	17088.9	16579.1	15985.5	15326.5	14601.8	13837.1
10°	18672.9	18621.9	18479.9	18261.4	17919.1	17496.7	16986.9	16418.9	15716.1	14969.6	14175.8
7.5°	18971.5	18924.1	18793.0	18574.6	18261.4	17828.1	17307.4	16699.3	16014.7	15257.3	14445.3
5°	19197.2	19142.6	19011.5	18793.0	18479.9	18057.5	17536.8	16928.7	16236.8	15468.5	14641.9
2.5°	19353.8	19288.3	19142.6	18924.1	18621.9	18206.8	17682.4	17070.7	16371.5	15599.6	14765.7
0°	19397.5	19353.8	19197.2	18971.5	18672.9	18257.8	17733.4	17118.0	16418.9	15643.3	14805.7

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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°	131.1	131.1	127.4	123.8	120.2	112.9	109.2	105.6	102.0	94.7	91.0
85°	276.7	269.5	262.2	254.9	244.0	236.7	225.8	218.5	207.6	196.6	185.7
82.5°	437.0	426.0	411.5	400.5	386.0	367.8	353.2	335.0	316.8	302.2	284.0
80°	611.7	593.5	575.3	557.1	535.3	513.4	491.6	469.7	444.2	418.8	393.3
77.5°	801.1	775.6	750.1	721.0	695.5	666.4	637.2	608.1	575.3	542.6	509.8
75°	1012.3	979.5	943.1	906.7	873.9	833.9	793.8	753.8	710.1	670.0	626.3
72.5°	1241.7	1201.6	1158.0	1114.3	1066.9	1015.9	965.0	910.3	859.4	808.4	753.8
70°	1489.3	1442.0	1387.4	1332.7	1274.5	1212.6	1150.7	1085.1	1019.6	954.0	888.5
67.5°	1755.1	1696.9	1631.3	1565.8	1493.0	1420.1	1347.3	1270.8	1190.7	1110.6	1034.1
65°	2039.2	1966.3	1889.9	1806.1	1722.4	1638.6	1551.2	1460.2	1369.1	1274.5	1190.7
62.5°	2356.0	2264.9	2166.6	2064.6	1970.0	1868.0	1773.3	1660.5	1551.2	1445.6	1340.0
60°	2723.7	2603.6	2483.4	2356.0	2235.8	2104.7	1988.2	1864.4	1740.6	1620.4	1496.6
57.5°	3135.2	2982.3	2836.6	2683.7	2523.5	2377.8	2228.5	2079.2	1940.8	1798.8	1664.1
55°	3601.3	3415.6	3233.5	3044.2	2858.5	2676.4	2487.0	2319.5	2148.4	1988.2	1831.6
52.5°	4111.1	3899.9	3674.1	3459.3	3222.6	2996.8	2785.6	2574.4	2374.2	2181.2	2002.7
50°	4657.3	4409.7	4151.1	3889.0	3619.5	3353.7	3098.8	2851.2	2618.1	2392.4	2181.2
47.5°	5225.3	4945.0	4650.0	4351.4	4063.8	3739.7	3433.8	3153.4	2873.0	2618.1	2374.2
45°	5808.0	5491.2	5167.1	4828.4	4489.8	4140.2	3801.6	3459.3	3153.4	2851.2	2574.4
42.5°	6408.8	6051.9	5691.4	5316.4	4941.3	4559.0	4176.6	3801.6	3433.8	3098.8	2785.6
40°	7027.8	6634.5	6223.1	5815.2	5414.7	4977.7	4559.0	4140.2	3739.7	3353.7	2996.8
37.5°	7646.8	7217.2	6772.9	6314.1	5855.3	5414.7	4941.3	4489.8	4063.8	3619.5	3222.6
35°	8269.5	7796.1	7315.5	6816.6	6314.1	5815.2	5316.4	4828.4	4351.4	3889.0	3459.3
32.5°	8895.8	8378.8	7847.1	7315.5	6772.9	6223.1	5691.4	5167.1	4650.0	4151.1	3674.1
30°	9511.2	8950.5	8378.8	7796.1	7217.2	6634.5	6051.9	5491.2	4945.0	4409.7	3899.9
27.5°	10112.0	9511.2	8895.8	8269.5	7646.8	7027.8	6408.8	5808.0	5225.3	4657.3	4111.1
25°	10691.0	10050.1	9391.1	8724.7	8062.0	7402.9	6751.1	6102.9	5491.2	4894.0	4322.3
22.5°	11237.2	10559.9	9864.4	9158.0	8447.9	7752.4	7067.9	6394.2	5742.4	5116.1	4515.3
20°	11761.6	11036.9	10330.5	9558.6	8815.7	8083.8	7366.5	6660.0	5971.8	5320.0	4690.1
17.5°	12238.6	11477.6	10705.6	9930.0	9150.7	8382.4	7632.3	6929.5	6183.0	5505.7	4857.6
15°	12668.3	11874.5	11066.1	10261.3	9449.3	8651.9	7872.6	7115.2	6376.0	5673.2	5003.2
12.5°	13043.3	12220.4	11382.9	10549.0	9715.1	8888.5	8083.8	7300.9	6543.5	5815.2	5127.0
10°	13352.8	12511.7	11648.7	10789.3	9933.6	9085.2	8255.0	7457.5	6681.9	5935.4	5229.0
7.5°	13604.1	12741.1	11863.5	10978.7	10104.8	9238.1	8393.3	7577.7	6791.1	6026.4	5309.1
5°	13782.5	12908.6	12016.5	11113.4	10228.6	9351.0	8491.6	7665.1	6867.6	6092.0	5367.4
2.5°	13895.4	13043.3	12140.3	11226.3	10330.5	9442.0	8571.7	7734.2	6929.5	6146.6	5414.7
0°	13931.8	13043.3	12140.3	11226.3	10330.5	9442.0	8571.7	7734.2	6929.5	6146.6	5414.7

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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°	87.4	80.1	72.8	69.2	61.9	58.3	51.0	43.7	40.1	32.8	25.5
85°	174.8	160.2	149.3	138.4	127.4	112.9	102.0	91.0	76.5	65.5	51.0
82.5°	265.8	247.6	229.4	211.2	193.0	174.8	152.9	134.7	116.5	98.3	76.5
80°	367.8	338.6	313.2	287.7	262.2	236.7	207.6	182.1	152.9	127.4	102.0
77.5°	473.4	440.6	404.2	367.8	331.4	298.6	262.2	229.4	196.6	160.2	127.4
75°	586.3	542.6	502.5	455.2	411.5	364.1	320.4	276.7	236.7	196.6	152.9
72.5°	702.8	648.2	593.5	542.6	487.9	433.3	382.3	327.7	276.7	229.4	182.1
70°	822.9	757.4	691.9	630.0	568.1	502.5	444.2	382.3	320.4	262.2	207.6
67.5°	950.4	873.9	797.5	717.3	648.2	575.3	502.5	433.3	364.1	298.6	236.7
65°	1088.8	997.7	903.1	819.3	728.3	648.2	568.1	487.9	411.5	331.4	262.2
62.5°	1230.8	1125.2	1019.6	914.0	819.3	717.3	630.0	542.6	455.2	367.8	287.7
60°	1376.4	1256.3	1136.1	1019.6	903.1	797.5	691.9	593.5	502.5	404.2	313.2
57.5°	1525.7	1391.0	1256.3	1125.2	997.7	873.9	757.4	648.2	542.6	440.6	338.6
55°	1678.7	1525.7	1376.4	1230.8	1088.8	950.4	822.9	702.8	586.3	473.4	367.8
52.5°	1831.6	1664.1	1496.6	1340.0	1190.7	1034.1	888.5	753.8	626.3	509.8	393.3
50°	1988.2	1798.8	1620.4	1445.6	1274.5	1110.6	954.0	808.4	670.0	542.6	418.8
47.5°	2148.4	1940.8	1740.6	1551.2	1369.1	1190.7	1019.6	859.4	710.1	575.3	444.2
45°	2319.5	2079.2	1864.4	1660.5	1460.2	1270.8	1085.1	910.3	753.8	608.1	469.7
42.5°	2487.0	2228.5	1988.2	1773.3	1551.2	1347.3	1150.7	965.0	793.8	637.2	491.6
40°	2676.4	2377.8	2104.7	1868.0	1638.6	1420.1	1212.6	1015.9	833.9	666.4	513.4
37.5°	2858.5	2523.5	2235.8	1970.0	1722.4	1493.0	1274.5	1066.9	873.9	695.5	535.3
35°	3044.2	2683.7	2356.0	2064.6	1806.1	1565.8	1332.7	1114.3	906.7	721.0	557.1
32.5°	3233.5	2836.6	2483.4	2166.6	1889.9	1631.3	1387.4	1158.0	943.1	750.1	575.3
30°	3415.6	2982.3	2603.6	2264.9	1966.3	1696.9	1442.0	1201.6	979.5	775.6	593.5
27.5°	3601.3	3135.2	2723.7	2356.0	2039.2	1755.1	1489.3	1241.7	1012.3	801.1	611.7
25°	3779.7	3280.9	2836.6	2443.3	2104.7	1813.4	1540.3	1281.8	1041.4	822.9	626.3
22.5°	3943.6	3408.3	2938.6	2527.1	2173.9	1864.4	1584.0	1318.2	1070.6	844.8	640.9
20°	4092.9	3539.4	3044.2	2610.9	2239.4	1915.4	1620.4	1350.9	1096.0	863.0	655.4
17.5°	4238.5	3659.6	3138.8	2687.3	2294.1	1959.0	1656.8	1376.4	1117.9	877.6	666.4
15°	4362.3	3765.2	3222.6	2752.9	2345.0	1995.5	1685.9	1401.9	1136.1	892.1	673.7
12.5°	4471.6	3856.2	3295.4	2807.5	2385.1	2028.2	1715.1	1423.8	1154.3	903.1	684.6
10°	4559.0	3929.0	3353.7	2854.8	2421.5	2053.7	1733.3	1442.0	1165.2	914.0	691.9
7.5°	4628.2	3987.3	3401.0	2887.6	2447.0	2075.6	1751.5	1452.9	1176.2	921.3	702.8
5°	4679.1	4031.0	3433.8	2913.1	2468.8	2101.1	1773.3	1471.1	1190.7	932.2	702.8
2.5°	4719.2	4063.8	3459.3	2934.9	2483.4	2101.1	1773.3	1471.1	1190.7	932.2	702.8
0°	4719.2	4063.8	3459.3	2934.9	2483.4	2101.1	1773.3	1471.1	1190.7	932.2	702.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.2	14.6	7.3	0.0
85°	40.1	25.5	14.6	0.0
82.5°	58.3	40.1	18.2	0.0
80°	76.5	51.0	25.5	0.0
77.5°	98.3	65.5	32.8	0.0
75°	116.5	76.5	40.1	0.0
72.5°	134.7	91.0	43.7	0.0
70°	152.9	102.0	51.0	0.0
67.5°	174.8	112.9	58.3	0.0
65°	193.0	127.4	61.9	0.0
62.5°	211.2	138.4	69.2	0.0
60°	229.4	149.3	72.8	0.0
57.5°	247.6	160.2	80.1	0.0
55°	265.8	174.8	87.4	0.0
52.5°	284.0	185.7	91.0	0.0
50°	302.2	196.6	94.7	0.0
47.5°	316.8	207.6	102.0	0.0
45°	335.0	218.5	105.6	0.0
42.5°	353.2	225.8	109.2	0.0
40°	367.8	236.7	112.9	0.0
37.5°	386.0	244.0	120.2	0.0
35°	400.5	254.9	123.8	0.0
32.5°	411.5	262.2	127.4	0.0
30°	426.0	269.5	131.1	0.0
27.5°	437.0	276.7	131.1	0.0
25°	447.9	284.0	134.7	0.0
22.5°	458.8	287.7	138.4	0.0
20°	469.7	294.9	142.0	0.0
17.5°	477.0	298.6	142.0	0.0
15°	484.3	302.2	149.3	0.0
12.5°	487.9	305.9	149.3	0.0
10°	495.2	313.2	149.3	0.0
7.5°	502.5	313.2	149.3	0.0
5°	502.5	313.2	149.3	0.0
2.5°	502.5	313.2	149.3	0.0
0°	502.5	313.2	149.3	0.0

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