

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: P624602

Luminaire Tested: **IFLD-L-SA7A-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624602
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

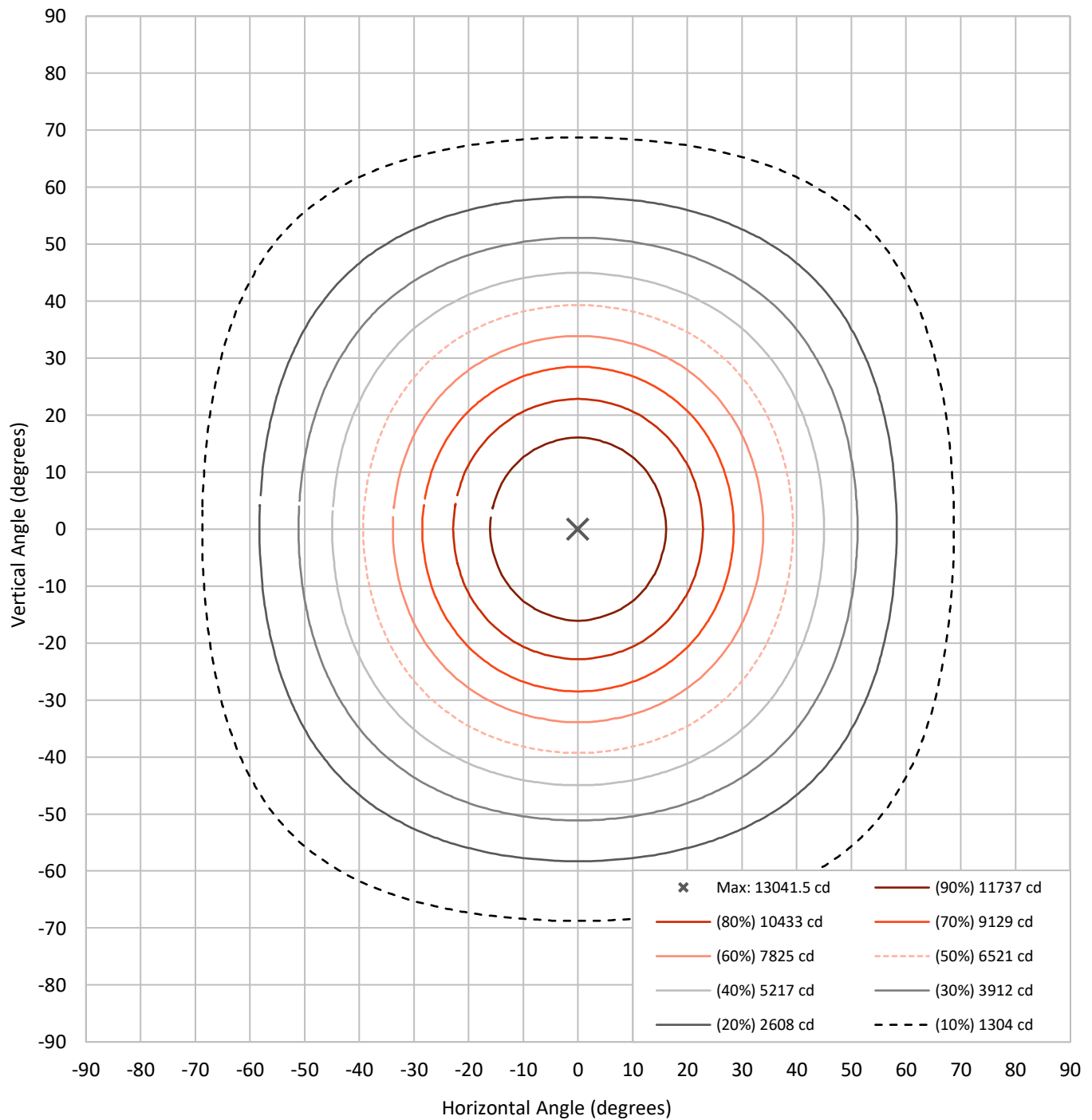
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23481.5 lumens	Max Intensity:	13041.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.9 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:	10160.2 lumens	Field Lumens:	16637 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	217.6		
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		



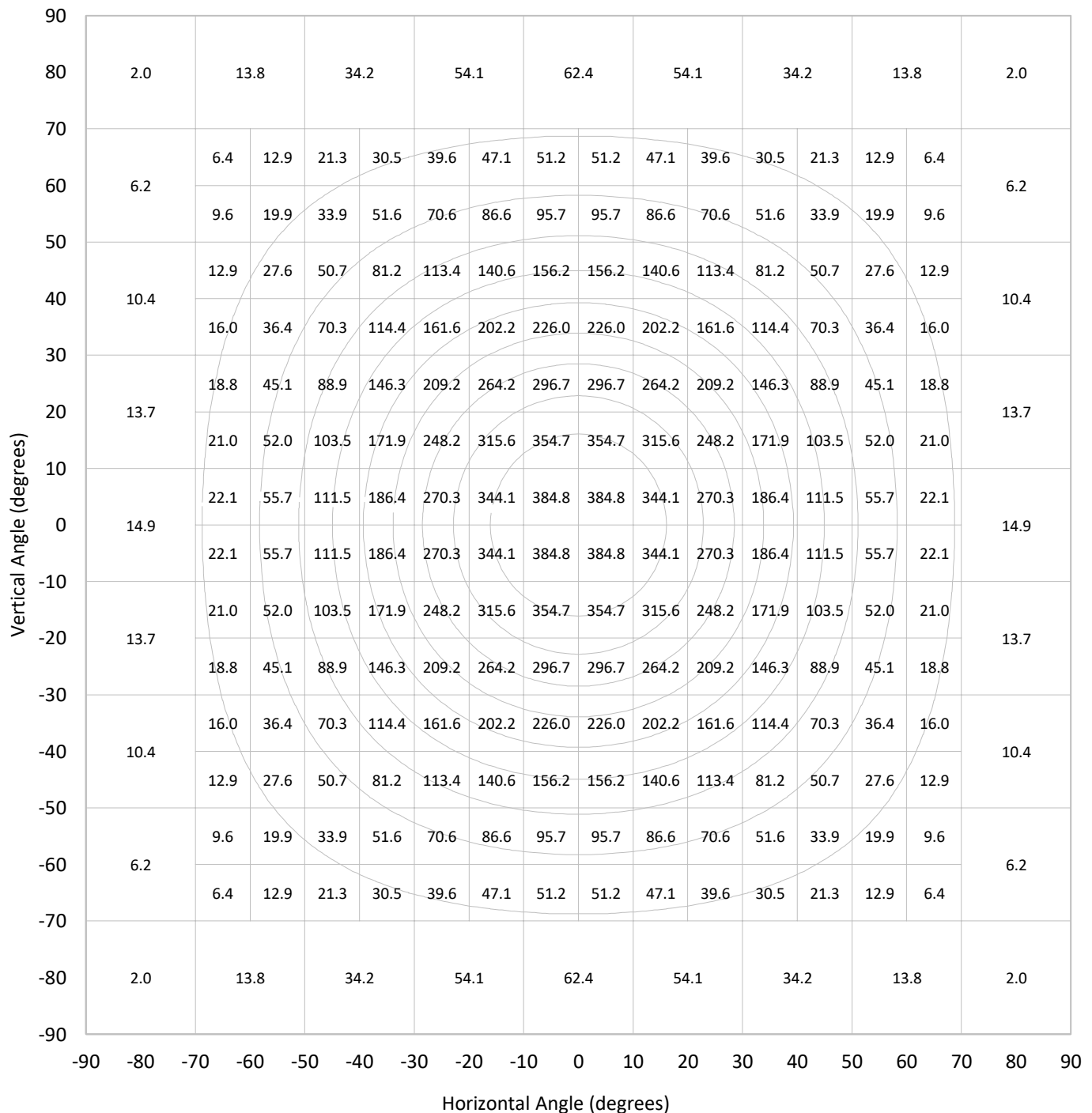
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Iso-Candela Plot



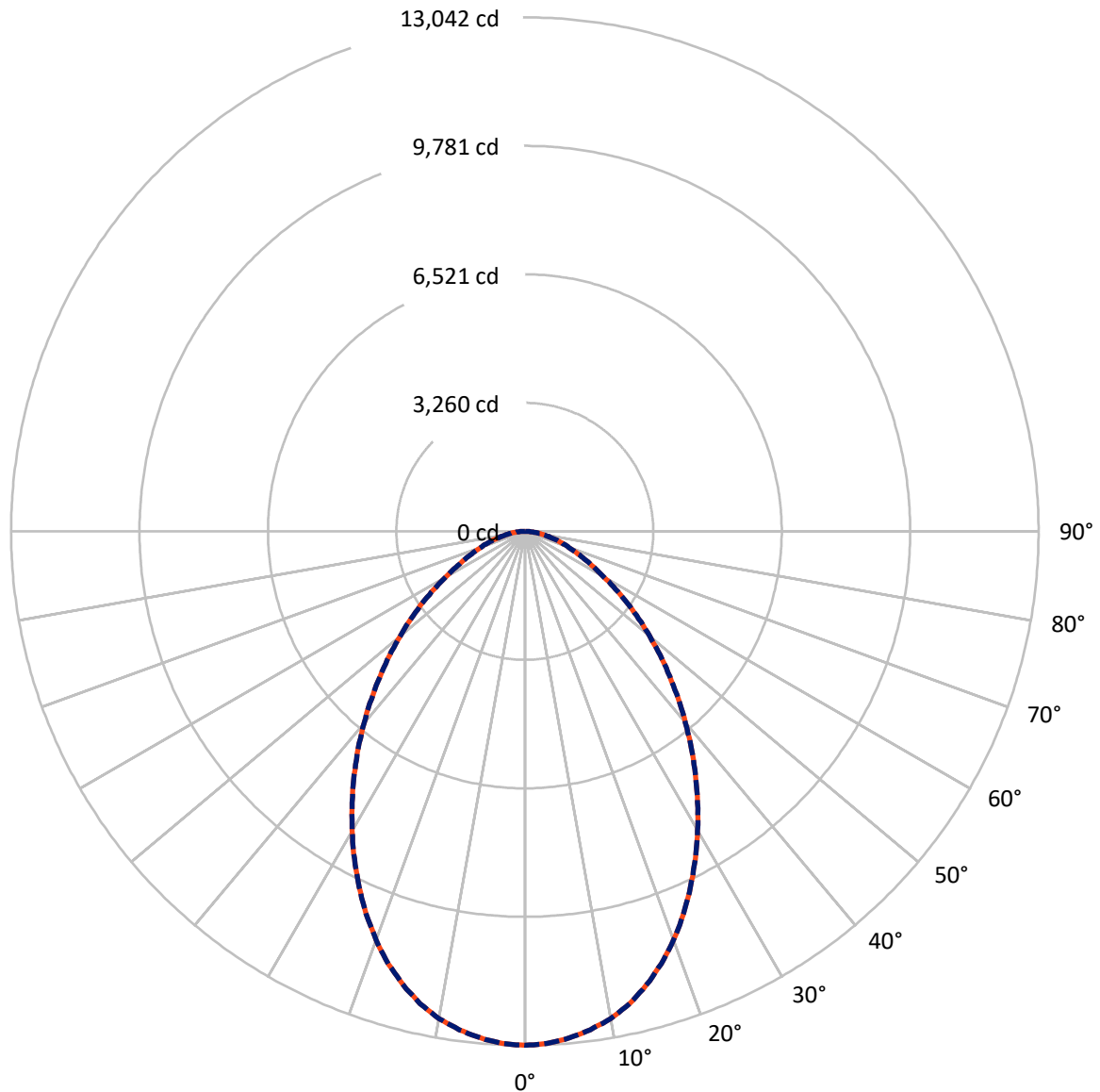
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Lumen Table



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Luminous Intensity Polar Plot

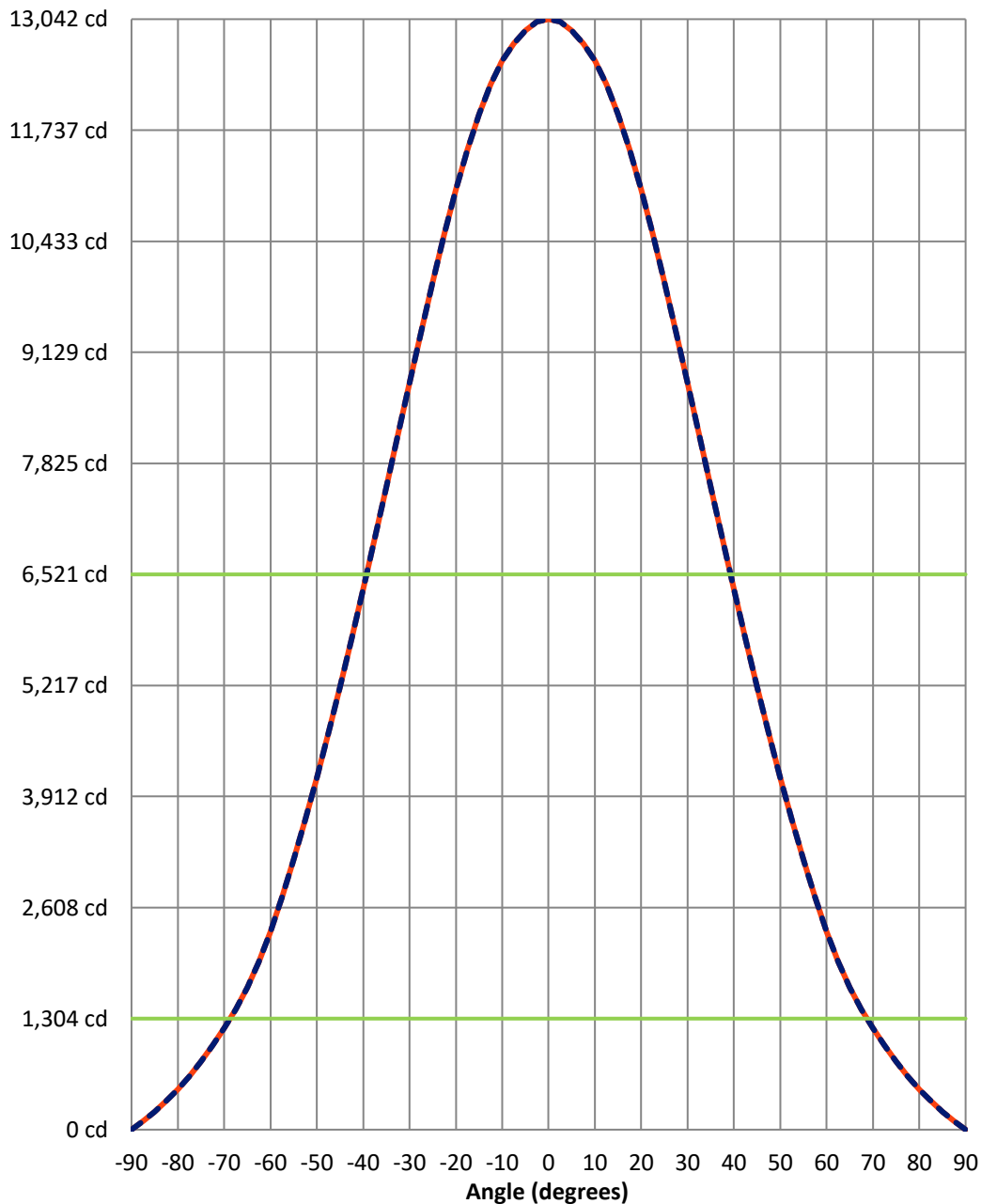


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10160.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16637
Efficiency: 70.9%

Spill:

Lumens: 6844.5
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°	100.4	100.4	100.4	100.4	100.4	100.4	100.4	95.5	95.5	93.0	90.6
85°	210.5	210.5	210.5	210.5	210.5	205.6	203.2	200.8	198.3	193.4	191.0
82.5°	337.9	337.9	337.9	337.9	333.0	328.1	325.6	320.7	315.8	308.5	301.1
80°	472.5	472.5	472.5	472.5	465.2	460.3	452.9	448.0	440.7	430.9	421.1
77.5°	626.7	626.7	626.7	619.4	614.5	607.2	599.8	590.0	580.2	568.0	553.3
75°	800.6	800.6	800.6	790.8	783.4	776.1	763.8	751.6	736.9	719.8	700.2
72.5°	989.1	989.1	989.1	976.8	969.5	957.2	942.6	925.4	908.3	886.2	861.8
70°	1192.3	1192.3	1192.3	1177.6	1165.3	1153.1	1133.5	1113.9	1089.4	1065.0	1035.6
67.5°	1412.6	1412.6	1412.6	1395.5	1380.8	1363.6	1341.6	1317.1	1287.7	1253.5	1219.2
65°	1669.7	1669.7	1659.9	1645.2	1628.0	1603.6	1576.6	1542.4	1505.6	1461.6	1415.1
62.5°	1973.2	1973.2	1958.6	1941.4	1919.4	1887.6	1850.8	1806.8	1755.4	1699.0	1642.7
60°	2325.8	2325.8	2308.6	2286.6	2254.8	2215.6	2166.6	2110.3	2046.7	1975.7	1907.1
57.5°	2732.2	2732.2	2710.1	2680.8	2641.6	2592.6	2531.4	2460.4	2379.6	2291.5	2205.8
55°	3172.9	3172.9	3145.9	3111.7	3065.1	3006.4	2932.9	2849.7	2751.8	2651.4	2541.2
52.5°	3640.5	3640.5	3608.6	3569.5	3515.6	3447.1	3363.8	3265.9	3153.3	3035.8	2906.0
50°	4132.5	4132.5	4095.8	4051.8	3990.6	3909.8	3814.3	3701.7	3576.8	3439.7	3290.4
47.5°	4658.9	4658.9	4617.3	4565.9	4492.4	4399.4	4286.8	4157.0	4015.0	3860.8	3691.9
45°	5200.0	5200.0	5153.4	5094.7	5013.9	4908.6	4783.8	4658.9	4477.7	4299.0	4103.2
42.5°	5763.0	5763.0	5709.2	5643.1	5550.0	5435.0	5293.0	5131.4	4952.7	4751.9	4538.9
40°	6348.2	6348.2	6287.0	6211.1	6108.2	5976.0	5816.9	5635.7	5435.0	5212.2	4977.2
37.5°	6945.5	6945.5	6877.0	6793.7	6678.7	6531.8	6353.1	6152.3	5927.1	5679.8	5420.3
35°	7547.8	7547.8	7471.9	7381.3	7254.0	7092.4	6899.0	6676.2	6426.5	6157.2	5865.9
32.5°	8162.3	8162.3	8079.0	7976.2	7831.8	7653.0	7440.1	7197.7	6945.5	6632.1	6313.9
30°	8769.4	8769.4	8678.8	8566.2	8412.0	8216.1	7983.5	7716.7	7420.5	7099.8	6757.0
27.5°	9366.8	9342.3	9266.4	9146.4	8977.5	8769.4	8517.3	8228.4	7907.7	7555.1	7187.9
25°	9954.3	9927.4	9844.2	9712.0	9530.8	9303.1	9031.4	8722.9	8377.7	8005.6	7604.1
22.5°	10517.4	10488.0	10399.9	10257.9	10064.5	9817.2	9525.9	9195.4	8828.2	8429.1	8005.6
20°	11038.9	11007.1	10916.5	10767.1	10566.4	10304.4	9996.0	9641.0	9249.3	8828.2	8377.7
17.5°	11508.9	11477.1	11381.6	11227.4	11038.9	10747.6	10429.3	10054.7	9641.0	9195.4	8722.9
15°	11922.7	11888.4	11790.5	11636.2	11420.8	11146.6	10811.2	10429.3	9996.0	9525.9	9031.4
12.5°	12275.2	12241.0	12140.6	11986.3	11763.6	11489.4	11146.6	10747.6	10304.4	9817.2	9303.1
10°	12554.3	12520.0	12424.6	12277.7	12047.5	11763.6	11420.8	11038.9	10566.4	10064.5	9530.8
7.5°	12755.1	12723.2	12635.1	12488.2	12277.7	11986.3	11636.2	11227.4	10767.1	10257.9	9712.0
5°	12906.9	12870.1	12782.0	12635.1	12424.6	12140.6	11790.5	11381.6	10916.5	10399.9	9844.2
2.5°	13012.1	12968.1	12870.1	12723.2	12520.0	12241.0	11888.4	11477.1	11007.1	10488.0	9927.4
0°	13041.5	13012.1	12906.9	12755.1	12554.3	12275.2	11922.7	11508.9	11038.9	10517.4	9954.3

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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°	88.1	88.1	85.7	83.2	80.8	75.9	73.4	71.0	68.5	63.7	61.2
85°	186.1	181.2	176.3	171.4	164.0	159.1	151.8	146.9	139.5	132.2	124.9
82.5°	293.8	286.4	276.6	269.3	259.5	247.3	237.5	225.2	213.0	203.2	191.0
80°	411.3	399.1	386.8	374.6	359.9	345.2	330.5	315.8	298.7	281.5	264.4
77.5°	538.6	521.5	504.3	484.7	467.6	448.0	428.4	408.8	386.8	364.8	342.7
75°	680.6	658.6	634.1	609.6	587.6	560.6	533.7	506.8	477.4	450.5	421.1
72.5°	834.8	807.9	778.5	749.1	717.3	683.0	648.8	612.0	577.8	543.5	506.8
70°	1001.3	969.5	932.8	896.0	856.9	815.2	773.6	729.6	685.5	641.4	597.4
67.5°	1180.0	1140.9	1096.8	1052.7	1003.8	954.8	905.8	854.4	800.6	746.7	695.3
65°	1371.0	1322.0	1270.6	1214.3	1158.0	1101.7	1042.9	981.7	920.5	856.9	800.6
62.5°	1584.0	1522.8	1456.7	1388.1	1324.5	1255.9	1192.3	1116.4	1042.9	971.9	900.9
60°	1831.2	1750.5	1669.7	1584.0	1503.2	1415.1	1336.7	1253.5	1170.2	1089.4	1006.2
57.5°	2107.9	2005.1	1907.1	1804.3	1696.6	1598.7	1498.3	1397.9	1304.9	1209.4	1118.8
55°	2421.3	2296.4	2174.0	2046.7	1921.8	1799.4	1672.1	1559.5	1444.4	1336.7	1231.4
52.5°	2764.0	2622.0	2470.2	2325.8	2166.6	2014.9	1872.9	1730.9	1596.2	1466.5	1346.5
50°	3131.2	2964.8	2790.9	2614.7	2433.5	2254.8	2083.4	1916.9	1760.2	1608.5	1466.5
47.5°	3513.2	3324.6	3126.3	2925.6	2732.2	2514.3	2308.6	2120.1	1931.6	1760.2	1596.2
45°	3904.9	3691.9	3474.0	3246.3	3018.6	2783.6	2555.9	2325.8	2120.1	1916.9	1730.9
42.5°	4308.8	4068.9	3826.5	3574.4	3322.2	3065.1	2808.1	2555.9	2308.6	2083.4	1872.9
40°	4725.0	4460.6	4184.0	3909.8	3640.5	3346.7	3065.1	2783.6	2514.3	2254.8	2014.9
37.5°	5141.2	4852.3	4553.6	4245.2	3936.7	3640.5	3322.2	3018.6	2732.2	2433.5	2166.6
35°	5559.8	5241.6	4918.4	4583.0	4245.2	3909.8	3574.4	3246.3	2925.6	2614.7	2325.8
32.5°	5980.9	5633.3	5275.9	4918.4	4553.6	4184.0	3826.5	3474.0	3126.3	2790.9	2470.2
30°	6394.7	6017.7	5633.3	5241.6	4852.3	4460.6	4068.9	3691.9	3324.6	2964.8	2622.0
27.5°	6798.6	6394.7	5980.9	5559.8	5141.2	4725.0	4308.8	3904.9	3513.2	3131.2	2764.0
25°	7187.9	6757.0	6313.9	5865.9	5420.3	4977.2	4538.9	4103.2	3691.9	3290.4	2906.0
22.5°	7555.1	7099.8	6632.1	6157.2	5679.8	5212.2	4751.9	4299.0	3860.8	3439.7	3035.8
20°	7907.7	7420.5	6945.5	6426.5	5927.1	5435.0	4952.7	4477.7	4015.0	3576.8	3153.3
17.5°	8228.4	7716.7	7197.7	6676.2	6152.3	5635.7	5131.4	4658.9	4157.0	3701.7	3265.9
15°	8517.3	7983.5	7440.1	6899.0	6353.1	5816.9	5293.0	4783.8	4286.8	3814.3	3363.8
12.5°	8769.4	8216.1	7653.0	7092.4	6531.8	5976.0	5435.0	4908.6	4399.4	3909.8	3447.1
10°	8977.5	8412.0	7831.8	7254.0	6678.7	6108.2	5550.0	5013.9	4492.4	3990.6	3515.6
7.5°	9146.4	8566.2	7976.2	7381.3	6793.7	6211.1	5643.1	5094.7	4565.9	4051.8	3569.5
5°	9266.4	8678.8	8079.0	7471.9	6877.0	6287.0	5709.2	5153.4	4617.3	4095.8	3608.6
2.5°	9342.3	8769.4	8162.3	7547.8	6945.5	6348.2	5763.0	5200.0	4658.9	4132.5	3640.5
0°	9366.8	8769.4	8162.3	7547.8	6945.5	6348.2	5763.0	5200.0	4658.9	4132.5	3640.5

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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°	58.8	53.9	49.0	46.5	41.6	39.2	34.3	29.4	26.9	22.0	17.1
85°	117.5	107.7	100.4	93.0	85.7	75.9	68.5	61.2	51.4	44.1	34.3
82.5°	178.7	166.5	154.2	142.0	129.8	117.5	102.8	90.6	78.3	66.1	51.4
80°	247.3	227.7	210.5	193.4	176.3	159.1	139.5	122.4	102.8	85.7	68.5
77.5°	318.3	296.2	271.7	247.3	222.8	200.8	176.3	154.2	132.2	107.7	85.7
75°	394.2	364.8	337.9	306.0	276.6	244.8	215.4	186.1	159.1	132.2	102.8
72.5°	472.5	435.8	399.1	364.8	328.1	291.3	257.1	220.3	186.1	154.2	122.4
70°	553.3	509.2	465.2	423.5	381.9	337.9	298.7	257.1	215.4	176.3	139.5
67.5°	639.0	587.6	536.2	482.3	435.8	386.8	337.9	291.3	244.8	200.8	159.1
65°	732.0	670.8	607.2	550.8	489.6	435.8	381.9	328.1	276.6	222.8	176.3
62.5°	827.5	756.5	685.5	614.5	550.8	482.3	423.5	364.8	306.0	247.3	193.4
60°	925.4	844.6	763.8	685.5	607.2	536.2	465.2	399.1	337.9	271.7	210.5
57.5°	1025.8	935.2	844.6	756.5	670.8	587.6	509.2	435.8	364.8	296.2	227.7
55°	1128.6	1025.8	925.4	827.5	732.0	639.0	553.3	472.5	394.2	318.3	247.3
52.5°	1231.4	1118.8	1006.2	900.9	800.6	695.3	597.4	506.8	421.1	342.7	264.4
50°	1336.7	1209.4	1089.4	971.9	856.9	746.7	641.4	543.5	450.5	364.8	281.5
47.5°	1444.4	1304.9	1170.2	1042.9	920.5	800.6	685.5	577.8	477.4	386.8	298.7
45°	1559.5	1397.9	1253.5	1116.4	981.7	854.4	729.6	612.0	506.8	408.8	315.8
42.5°	1672.1	1498.3	1336.7	1192.3	1042.9	905.8	773.6	648.8	533.7	428.4	330.5
40°	1799.4	1598.7	1415.1	1255.9	1101.7	954.8	815.2	683.0	560.6	448.0	345.2
37.5°	1921.8	1696.6	1503.2	1324.5	1158.0	1003.8	856.9	717.3	587.6	467.6	359.9
35°	2046.7	1804.3	1584.0	1388.1	1214.3	1052.7	896.0	749.1	609.6	484.7	374.6
32.5°	2174.0	1907.1	1669.7	1456.7	1270.6	1096.8	932.8	778.5	634.1	504.3	386.8
30°	2296.4	2005.1	1750.5	1522.8	1322.0	1140.9	969.5	807.9	658.6	521.5	399.1
27.5°	2421.3	2107.9	1831.2	1584.0	1371.0	1180.0	1001.3	834.8	680.6	538.6	411.3
25°	2541.2	2205.8	1907.1	1642.7	1415.1	1219.2	1035.6	861.8	700.2	553.3	421.1
22.5°	2651.4	2291.5	1975.7	1699.0	1461.6	1253.5	1065.0	886.2	719.8	568.0	430.9
20°	2751.8	2379.6	2046.7	1755.4	1505.6	1287.7	1089.4	908.3	736.9	580.2	440.7
17.5°	2849.7	2460.4	2110.3	1806.8	1542.4	1317.1	1113.9	925.4	751.6	590.0	448.0
15°	2932.9	2531.4	2166.6	1850.8	1576.6	1341.6	1133.5	942.6	763.8	599.8	452.9
12.5°	3006.4	2592.6	2215.6	1887.6	1603.6	1363.6	1153.1	957.2	776.1	607.2	460.3
10°	3065.1	2641.6	2254.8	1919.4	1628.0	1380.8	1165.3	969.5	783.4	614.5	465.2
7.5°	3111.7	2680.8	2286.6	1941.4	1645.2	1395.5	1177.6	976.8	790.8	619.4	472.5
5°	3145.9	2710.1	2308.6	1958.6	1659.9	1412.6	1192.3	989.1	800.6	626.7	472.5
2.5°	3172.9	2732.2	2325.8	1973.2	1669.7	1412.6	1192.3	989.1	800.6	626.7	472.5
0°	3172.9	2732.2	2325.8	1973.2	1669.7	1412.6	1192.3	989.1	800.6	626.7	472.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.2	9.8	4.9	0.0
85°	26.9	17.1	9.8	0.0
82.5°	39.2	26.9	12.2	0.0
80°	51.4	34.3	17.1	0.0
77.5°	66.1	44.1	22.0	0.0
75°	78.3	51.4	26.9	0.0
72.5°	90.6	61.2	29.4	0.0
70°	102.8	68.5	34.3	0.0
67.5°	117.5	75.9	39.2	0.0
65°	129.8	85.7	41.6	0.0
62.5°	142.0	93.0	46.5	0.0
60°	154.2	100.4	49.0	0.0
57.5°	166.5	107.7	53.9	0.0
55°	178.7	117.5	58.8	0.0
52.5°	191.0	124.9	61.2	0.0
50°	203.2	132.2	63.7	0.0
47.5°	213.0	139.5	68.5	0.0
45°	225.2	146.9	71.0	0.0
42.5°	237.5	151.8	73.4	0.0
40°	247.3	159.1	75.9	0.0
37.5°	259.5	164.0	80.8	0.0
35°	269.3	171.4	83.2	0.0
32.5°	276.6	176.3	85.7	0.0
30°	286.4	181.2	88.1	0.0
27.5°	293.8	186.1	88.1	0.0
25°	301.1	191.0	90.6	0.0
22.5°	308.5	193.4	93.0	0.0
20°	315.8	198.3	95.5	0.0
17.5°	320.7	200.8	95.5	0.0
15°	325.6	203.2	100.4	0.0
12.5°	328.1	205.6	100.4	0.0
10°	333.0	210.5	100.4	0.0
7.5°	337.9	210.5	100.4	0.0
5°	337.9	210.5	100.4	0.0
2.5°	337.9	210.5	100.4	0.0
0°	337.9	210.5	100.4	0.0

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