

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: P628494

Luminaire Tested: **IFLD-L-SA8A-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628494
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

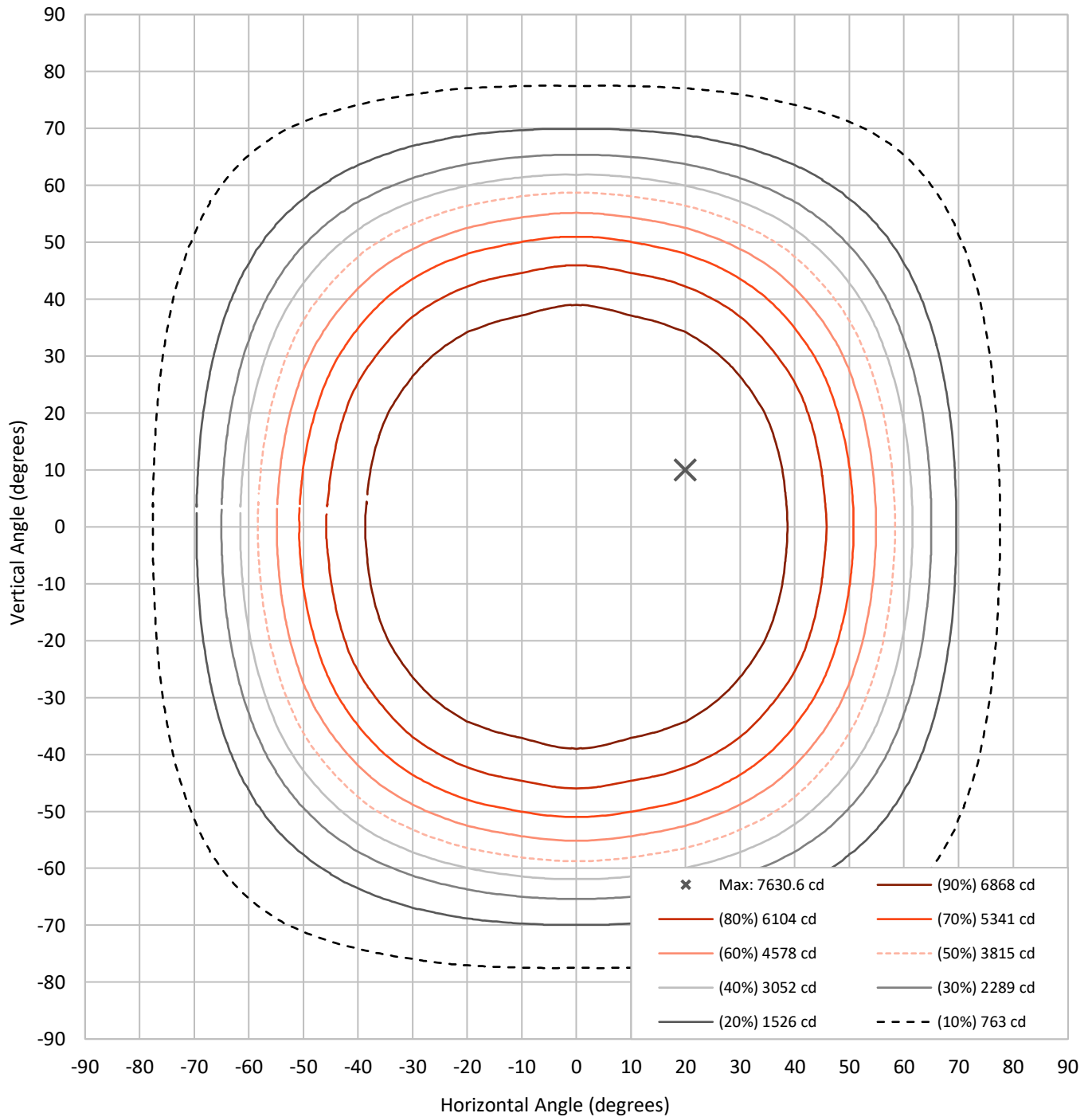
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23409.7 lumens	Max Intensity:	7630.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14364.7 lumens	Field Lumens:	17220.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	247.8		
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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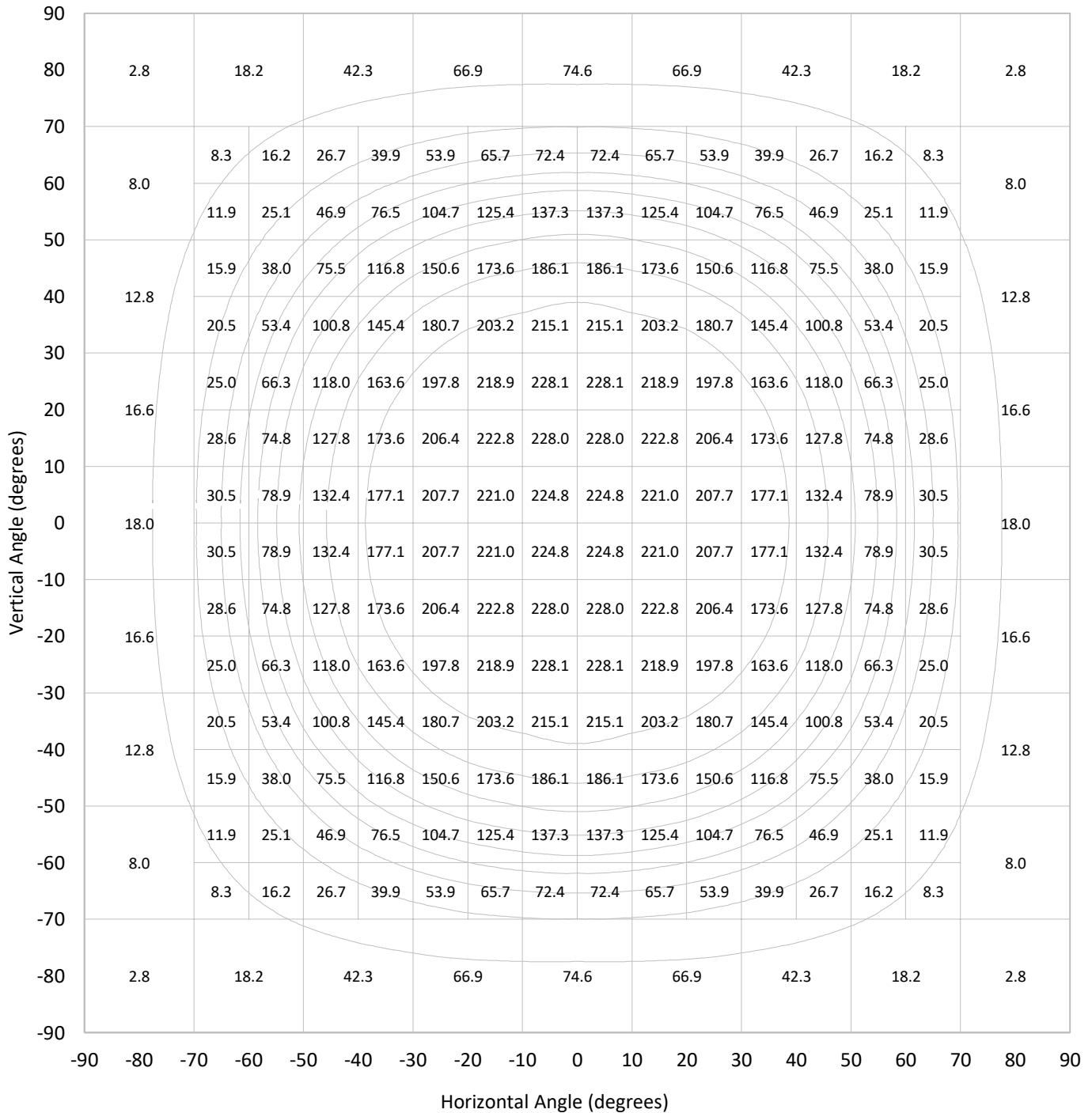
Iso-Candela Plot





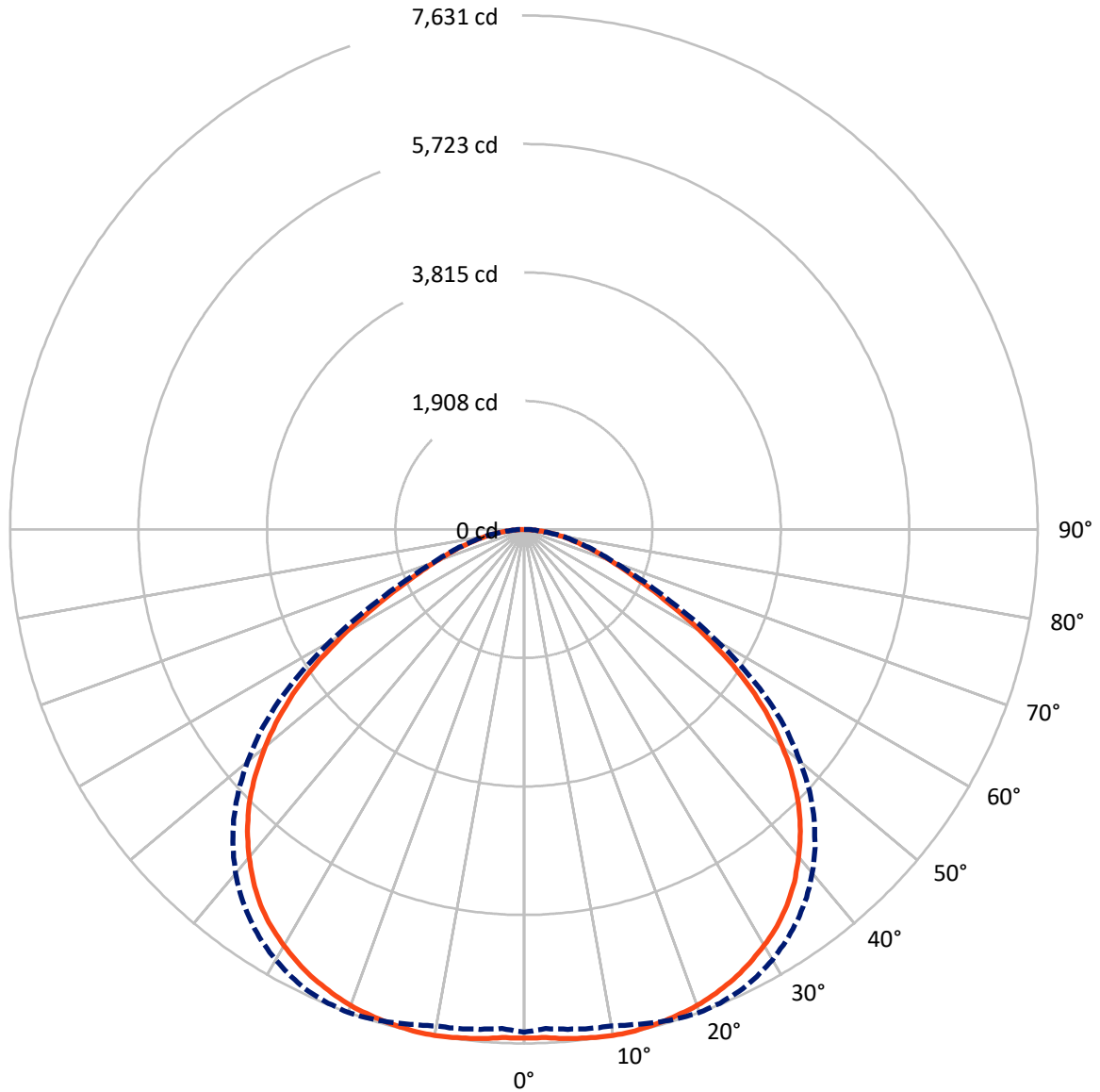
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Lumen Table



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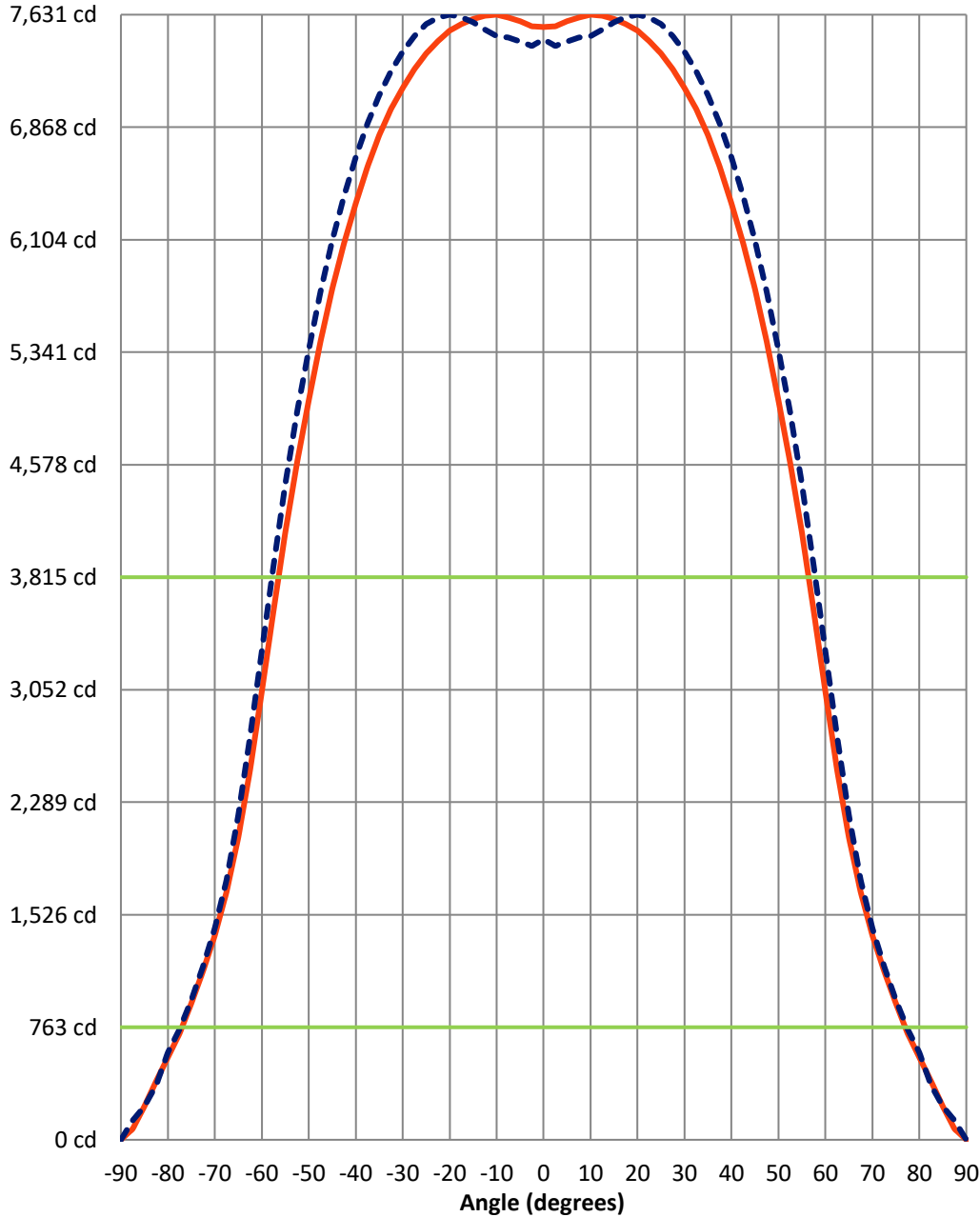
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 14364.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17220.8
 Efficiency: 73.6%

Spill:
 Lumens: 6188.9
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-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°	61.6	66.5	69.0	71.4	73.9	76.4	78.8	76.4	73.9	73.9	71.4
85°	165.0	170.0	172.4	189.7	206.9	216.8	229.1	226.6	226.6	224.1	221.7
82.5°	330.1	344.8	357.1	374.4	384.2	399.0	408.9	401.5	396.6	386.7	379.3
80°	586.2	591.1	593.6	596.1	583.7	581.3	576.4	569.0	559.1	546.8	534.5
77.5°	746.3	751.2	756.2	751.2	748.8	746.3	738.9	731.5	721.7	711.8	697.1
75°	987.7	987.7	987.7	980.3	975.4	968.0	955.7	943.4	926.1	906.4	884.2
72.5°	1243.9	1241.4	1238.9	1224.1	1211.8	1197.1	1179.8	1165.0	1145.3	1123.2	1093.6
70°	1512.3	1517.3	1519.7	1500.0	1485.2	1465.5	1443.4	1416.3	1386.7	1354.7	1312.8
67.5°	1881.8	1876.9	1871.9	1844.8	1825.1	1798.0	1766.0	1726.6	1682.3	1633.0	1573.9
65°	2339.9	2347.3	2332.5	2305.4	2268.5	2224.2	2174.9	2118.2	2051.7	1977.9	1894.1
62.5°	2894.1	2906.4	2889.2	2854.7	2807.9	2748.8	2679.8	2598.5	2507.4	2404.0	2300.5
60°	3524.7	3522.2	3490.2	3443.4	3381.8	3307.9	3231.6	3142.9	3039.4	2918.7	2793.1
57.5°	4103.5	4098.6	4059.1	4012.4	3950.8	3872.0	3790.7	3697.1	3588.7	3460.6	3315.3
55°	4623.2	4618.3	4578.9	4529.6	4465.6	4386.7	4312.8	4224.2	4118.3	3982.8	3827.6
52.5°	5083.8	5086.3	5051.8	4997.6	4928.6	4852.3	4780.8	4692.2	4591.2	4455.7	4305.5
50°	5507.4	5505.0	5468.0	5418.8	5354.7	5280.8	5209.4	5120.7	5014.8	4884.3	4739.0
47.5°	5901.5	5896.6	5854.7	5800.5	5734.0	5670.0	5603.5	5524.7	5413.8	5283.3	5138.0
45°	6231.6	6221.7	6179.9	6128.1	6064.1	6007.4	5948.3	5889.2	5771.0	5650.3	5512.4
42.5°	6514.8	6512.4	6470.5	6418.8	6354.7	6305.5	6251.3	6177.4	6078.9	5968.0	5832.6
40°	6785.8	6766.1	6724.2	6674.9	6615.8	6574.0	6519.8	6445.9	6349.8	6241.4	6110.9
37.5°	6987.7	6990.2	6945.9	6891.7	6840.0	6800.6	6751.3	6682.3	6598.6	6492.7	6362.1
35°	7179.9	7167.6	7130.6	7083.8	7037.0	6992.7	6940.9	6881.8	6812.9	6714.3	6591.2
32.5°	7305.5	7322.7	7278.4	7229.1	7202.0	7167.6	7113.4	7051.8	6990.2	6891.7	6780.8
30°	7443.4	7428.6	7394.2	7352.3	7332.6	7310.4	7263.6	7204.5	7133.1	7044.4	6940.9
27.5°	7539.5	7532.1	7490.2	7450.8	7441.0	7421.2	7384.3	7332.6	7261.1	7174.9	7078.9
25°	7581.3	7586.3	7546.9	7524.7	7524.7	7512.4	7482.8	7438.5	7367.1	7288.2	7194.6
22.5°	7601.1	7596.1	7569.0	7564.1	7576.4	7566.6	7554.3	7514.8	7450.8	7386.8	7307.9
20°	7613.4	7578.9	7554.3	7574.0	7588.7	7586.3	7576.4	7551.8	7522.2	7468.0	7399.1
17.5°	7586.3	7564.1	7534.5	7564.1	7596.1	7598.6	7588.7	7574.0	7566.6	7532.1	7470.5
15°	7519.8	7502.5	7507.5	7537.0	7574.0	7586.3	7593.7	7610.9	7601.1	7574.0	7519.8
12.5°	7475.4	7453.3	7475.4	7505.0	7524.7	7532.1	7591.2	7623.2	7623.2	7598.6	7564.1
10°	7463.1	7418.8	7448.3	7475.4	7485.3	7529.6	7578.9	7613.4	7630.6	7610.9	7566.6
7.5°	7438.5	7408.9	7421.2	7433.6	7490.2	7522.2	7549.3	7586.3	7610.9	7608.4	7569.0
5°	7426.2	7389.2	7394.2	7445.9	7485.3	7507.5	7517.3	7549.3	7586.3	7593.7	7564.1
2.5°	7394.2	7376.9	7413.9	7418.8	7448.3	7465.6	7475.4	7505.0	7551.8	7569.0	7556.7
0°	7376.9	7352.3	7327.7	7347.4	7396.6	7433.6	7448.3	7492.7	7546.9	7564.1	7537.0



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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°	69.0	66.5	64.0	61.6	64.0	64.0	64.0	61.6	64.0	61.6	61.6
85°	214.3	204.4	197.0	187.2	177.3	170.0	160.1	150.2	147.8	145.3	140.4
82.5°	369.5	357.1	344.8	330.1	315.3	298.0	280.8	261.1	256.2	251.2	243.8
80°	519.7	502.5	485.2	468.0	453.2	436.0	416.3	394.1	379.3	367.0	352.2
77.5°	677.3	652.7	628.1	598.5	581.3	564.0	544.3	522.2	500.0	480.3	458.1
75°	857.2	830.1	805.4	775.9	743.8	711.8	679.8	650.3	618.2	588.7	559.1
72.5°	1056.7	1017.3	977.8	940.9	901.5	862.1	820.2	780.8	741.4	702.0	660.1
70°	1266.0	1216.8	1167.5	1118.2	1066.5	1014.8	965.5	916.3	867.0	815.3	768.5
67.5°	1512.3	1455.7	1391.6	1322.7	1246.3	1179.8	1115.8	1056.7	997.5	938.4	879.3
65°	1820.2	1741.4	1655.2	1561.6	1472.9	1384.2	1290.7	1202.0	1133.0	1064.0	997.5
62.5°	2199.5	2088.7	1968.0	1847.3	1738.9	1623.2	1514.8	1399.0	1290.7	1192.1	1110.8
60°	2652.7	2502.5	2354.7	2199.5	2049.3	1891.6	1753.7	1610.9	1475.4	1354.7	1236.5
57.5°	3152.7	2977.9	2800.5	2610.9	2406.4	2221.7	2034.5	1847.3	1687.2	1527.1	1394.1
55°	3660.1	3475.4	3275.9	3061.6	2837.5	2601.0	2347.3	2138.0	1918.7	1731.5	1559.1
52.5°	4142.9	3950.8	3743.9	3546.8	3278.4	3007.4	2729.1	2453.2	2197.1	1958.1	1748.8
50°	4573.9	4386.7	4187.2	3958.2	3709.4	3421.2	3110.9	2800.5	2497.6	2216.8	1955.7
47.5°	4968.0	4785.8	4586.2	4357.2	4130.6	3810.4	3497.6	3155.2	2817.8	2495.1	2189.7
45°	5337.5	5152.8	4945.9	4726.6	4465.6	4179.8	3857.2	3512.3	3150.3	2788.2	2436.0
42.5°	5672.5	5487.7	5278.4	5051.8	4793.1	4509.9	4197.1	3849.8	3485.3	3091.2	2704.5
40°	5965.6	5785.8	5583.8	5347.3	5106.0	4807.9	4500.0	4170.0	3793.1	3396.6	2970.5
37.5°	6221.7	6054.2	5854.7	5620.7	5364.6	5098.6	4780.8	4450.8	4110.9	3679.8	3243.9
35°	6448.3	6293.2	6088.7	5867.0	5615.8	5335.0	5037.0	4714.3	4347.3	3943.4	3519.7
32.5°	6645.4	6487.7	6300.5	6078.9	5835.0	5571.5	5266.1	4940.9	4593.6	4182.3	3721.7
30°	6812.9	6660.2	6482.8	6273.5	6039.5	5778.4	5480.3	5152.8	4798.1	4389.2	3933.5
27.5°	6958.2	6812.9	6640.5	6445.9	6221.7	5970.5	5670.0	5339.9	4977.9	4583.8	4128.1
25°	7083.8	6943.4	6783.3	6598.6	6376.9	6130.6	5847.3	5502.5	5140.4	4743.9	4293.1
22.5°	7197.1	7061.6	6901.5	6721.7	6519.8	6273.5	5987.7	5645.4	5278.4	4886.7	4443.4
20°	7298.1	7172.5	7014.8	6830.1	6628.1	6379.4	6096.1	5771.0	5401.5	5017.3	4578.9
17.5°	7379.4	7268.5	7110.9	6916.3	6714.3	6473.0	6197.1	5899.1	5507.4	5128.1	4692.2
15°	7436.0	7327.7	7184.8	6987.7	6790.7	6551.8	6275.9	5968.0	5603.5	5216.8	4785.8
12.5°	7475.4	7359.7	7226.7	7044.4	6847.4	6610.9	6342.4	6039.5	5684.8	5295.6	4867.0
10°	7485.3	7379.4	7246.4	7083.8	6891.7	6662.6	6399.1	6098.6	5751.3	5357.2	4933.5
7.5°	7490.2	7389.2	7268.5	7113.4	6923.7	6702.0	6440.9	6145.4	5800.5	5408.9	4982.8
5°	7487.8	7391.7	7283.3	7133.1	6943.4	6724.2	6468.0	6177.4	5835.0	5443.4	5019.7
2.5°	7480.4	7394.2	7293.2	7147.8	6965.6	6748.8	6495.1	6214.3	5872.0	5473.0	5049.3
0°	7500.1	7426.2	7298.1	7142.9	6970.5	6748.8	6492.7	6219.3	5876.9	5470.5	5046.8



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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°	61.6	59.1	59.1	56.7	54.2	51.7	46.8	44.3	39.4	32.0	24.6
85°	133.0	125.6	118.2	113.3	108.4	103.4	96.1	88.7	78.8	64.0	49.3
82.5°	234.0	219.2	204.4	187.2	172.4	157.6	145.3	133.0	118.2	96.1	73.9
80°	335.0	312.8	290.6	266.0	243.8	219.2	197.0	177.3	157.6	128.1	98.5
77.5°	436.0	406.4	374.4	344.8	312.8	280.8	248.8	221.7	192.1	157.6	123.2
75°	529.6	495.1	465.5	423.6	384.2	342.4	300.5	263.5	226.6	184.7	147.8
72.5°	623.2	578.8	537.0	497.5	453.2	401.5	354.7	307.9	261.1	211.8	167.5
70°	716.8	662.6	610.8	564.0	514.8	463.1	406.4	352.2	295.6	236.5	184.7
67.5°	812.8	751.2	692.1	633.0	576.4	517.2	458.1	396.6	330.1	261.1	204.4
65°	918.7	842.4	770.9	704.4	637.9	573.9	507.4	440.9	367.0	288.2	221.7
62.5°	1024.6	940.9	857.2	773.4	699.5	628.1	556.7	482.8	401.5	317.7	238.9
60°	1137.9	1041.9	945.8	852.2	761.1	682.3	603.5	524.6	438.4	344.8	256.2
57.5°	1263.6	1147.8	1039.4	933.5	830.1	736.5	650.3	566.5	470.4	371.9	275.9
55°	1406.4	1263.6	1135.5	1017.3	903.9	790.6	697.1	610.8	507.4	399.0	298.0
52.5°	1556.7	1391.6	1236.5	1103.5	982.8	854.7	741.4	645.3	544.3	426.1	317.7
50°	1731.5	1522.2	1349.8	1187.2	1051.7	918.7	788.2	684.7	581.3	458.1	337.4
47.5°	1911.3	1679.8	1463.1	1285.7	1125.6	980.3	842.4	719.2	615.8	487.7	357.1
45°	2120.7	1830.1	1591.1	1381.8	1197.1	1044.3	896.6	756.2	645.3	517.2	376.9
42.5°	2322.7	2007.4	1724.2	1487.7	1278.3	1105.9	945.8	795.6	674.9	546.8	394.1
40°	2561.6	2184.7	1852.2	1588.7	1359.6	1165.0	995.1	837.4	702.0	573.9	411.3
37.5°	2790.7	2364.6	2007.4	1699.5	1438.4	1224.1	1044.3	876.9	726.6	601.0	433.5
35°	3017.3	2564.1	2155.2	1803.0	1519.7	1290.7	1093.6	913.8	751.2	623.2	453.2
32.5°	3234.0	2751.3	2305.4	1918.7	1608.4	1352.2	1137.9	948.3	775.9	642.9	472.9
30°	3436.0	2928.6	2453.2	2037.0	1689.7	1408.9	1179.8	982.8	805.4	660.1	492.6
27.5°	3620.7	3101.0	2601.0	2147.8	1766.0	1460.6	1224.1	1014.8	830.1	677.3	509.9
25°	3788.2	3256.2	2736.5	2248.8	1835.0	1517.3	1266.0	1046.8	852.2	692.1	524.6
22.5°	3945.8	3399.0	2859.6	2349.8	1918.7	1573.9	1305.4	1076.4	874.4	706.9	539.4
20°	4083.8	3529.6	2977.9	2450.8	1992.6	1625.6	1339.9	1103.5	894.1	716.8	554.2
17.5°	4194.6	3645.4	3083.8	2539.4	2056.7	1670.0	1369.5	1128.1	911.3	729.1	564.0
15°	4293.1	3743.9	3172.4	2615.8	2113.3	1706.9	1396.6	1147.8	926.1	736.5	576.4
12.5°	4376.9	3827.6	3248.8	2682.3	2162.6	1738.9	1418.7	1162.6	938.4	743.8	583.7
10°	4445.9	3894.1	3312.8	2734.0	2202.0	1763.6	1436.0	1177.4	948.3	751.2	591.1
7.5°	4497.6	3943.4	3359.6	2778.3	2234.0	1780.8	1450.8	1187.2	958.1	756.2	603.5
5°	4537.0	3985.3	3396.6	2807.9	2258.6	1805.4	1468.0	1199.5	968.0	761.1	603.5
2.5°	4566.5	4019.7	3426.1	2832.5	2278.3	1800.5	1468.0	1197.1	968.0	761.1	601.0
0°	4561.6	4022.2	3423.7	2832.5	2278.3	1795.6	1468.0	1194.6	968.0	761.1	601.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.2	12.3	4.9	0.0
85°	36.9	24.6	12.3	0.0
82.5°	54.2	34.5	17.2	0.0
80°	71.4	46.8	22.2	0.0
77.5°	91.1	59.1	29.6	0.0
75°	108.4	69.0	34.5	0.0
72.5°	125.6	81.3	39.4	0.0
70°	140.4	91.1	44.3	0.0
67.5°	155.2	103.4	51.7	0.0
65°	167.5	113.3	56.7	0.0
62.5°	177.3	125.6	61.6	0.0
60°	189.7	135.5	66.5	0.0
57.5°	199.5	142.9	71.4	0.0
55°	209.4	147.8	76.4	0.0
52.5°	219.2	155.2	81.3	0.0
50°	229.1	162.6	86.2	0.0
47.5°	238.9	167.5	88.7	0.0
45°	253.7	174.9	93.6	0.0
42.5°	266.0	179.8	98.5	0.0
40°	278.3	184.7	101.0	0.0
37.5°	290.6	189.7	105.9	0.0
35°	303.0	194.6	108.4	0.0
32.5°	312.8	199.5	110.8	0.0
30°	322.7	204.4	113.3	0.0
27.5°	332.5	206.9	115.8	0.0
25°	339.9	211.8	118.2	0.0
22.5°	347.3	214.3	120.7	0.0
20°	352.2	216.8	123.2	0.0
17.5°	359.6	219.2	125.6	0.0
15°	362.1	221.7	130.5	0.0
12.5°	367.0	224.1	130.5	0.0
10°	369.5	226.6	130.5	0.0
7.5°	374.4	226.6	130.5	0.0
5°	371.9	226.6	130.5	0.0
2.5°	371.9	226.6	130.5	0.0
0°	369.5	226.6	130.5	0.0

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