

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: P628422

Luminaire Tested: **IFLD-S-SA6B-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628422
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

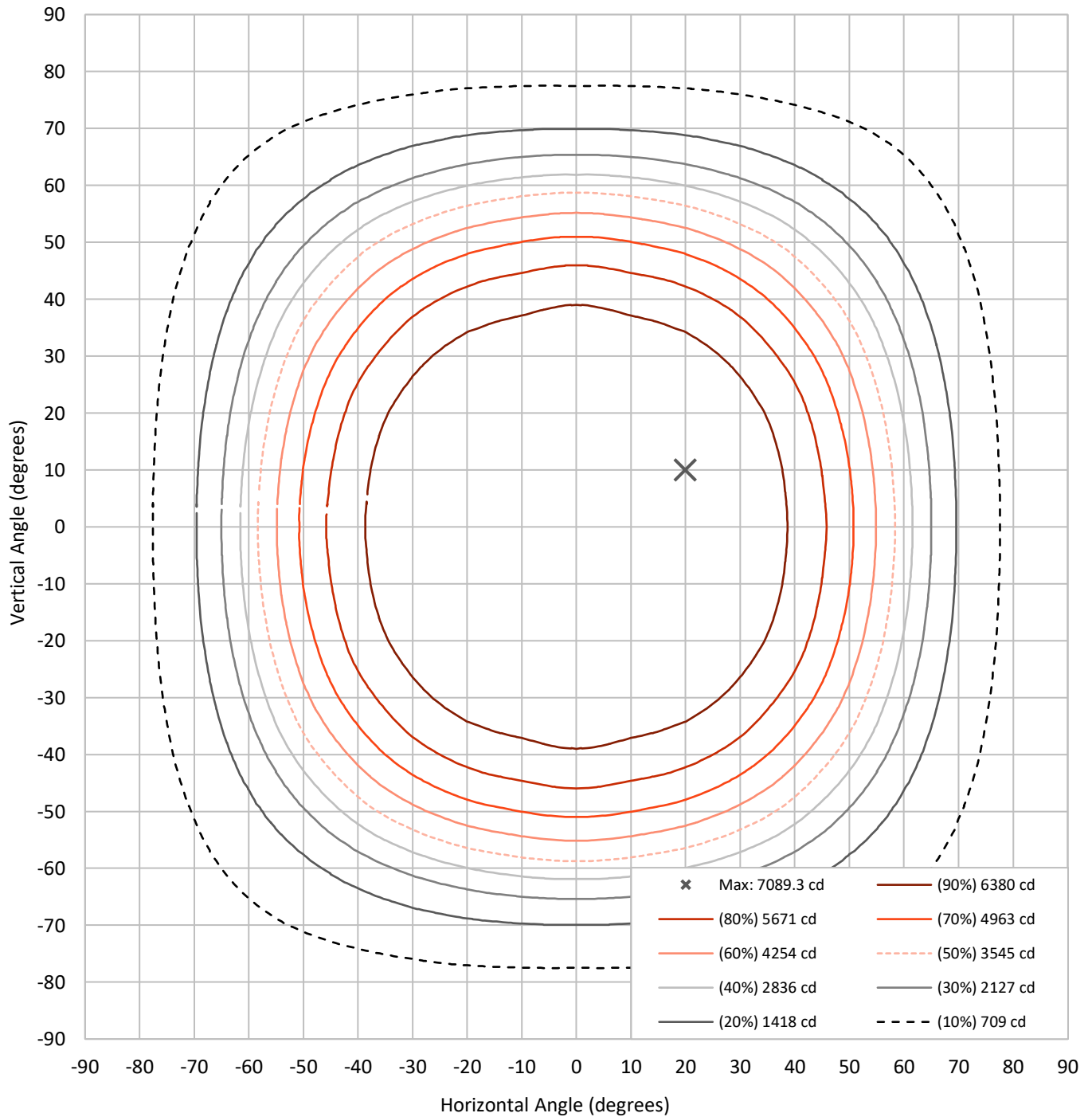
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21749.1 lumens	Max Intensity:	7089.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	88.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	13345.7 lumens	Field Lumens:	15999.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	244.9		
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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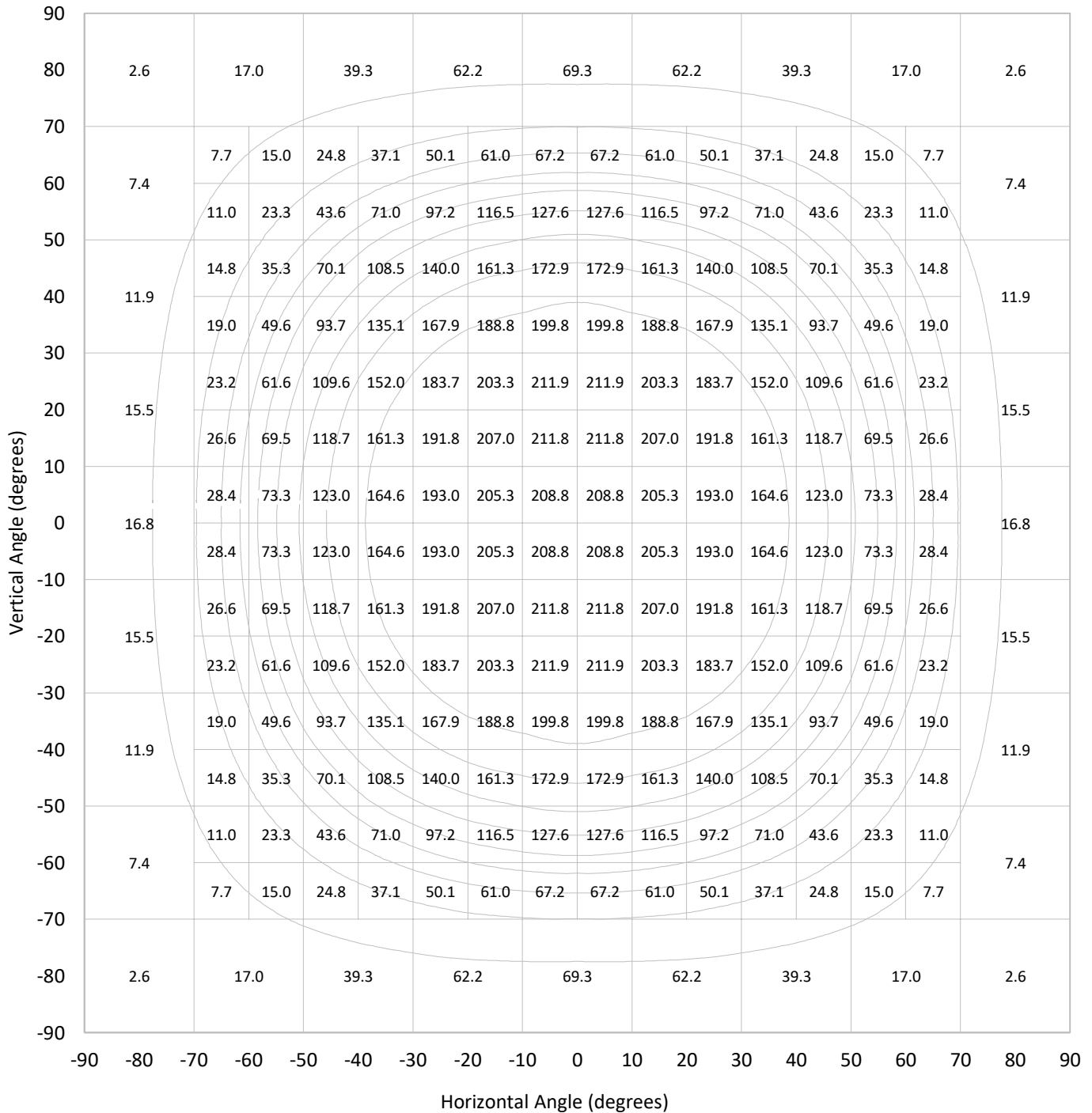
Iso-Candela Plot





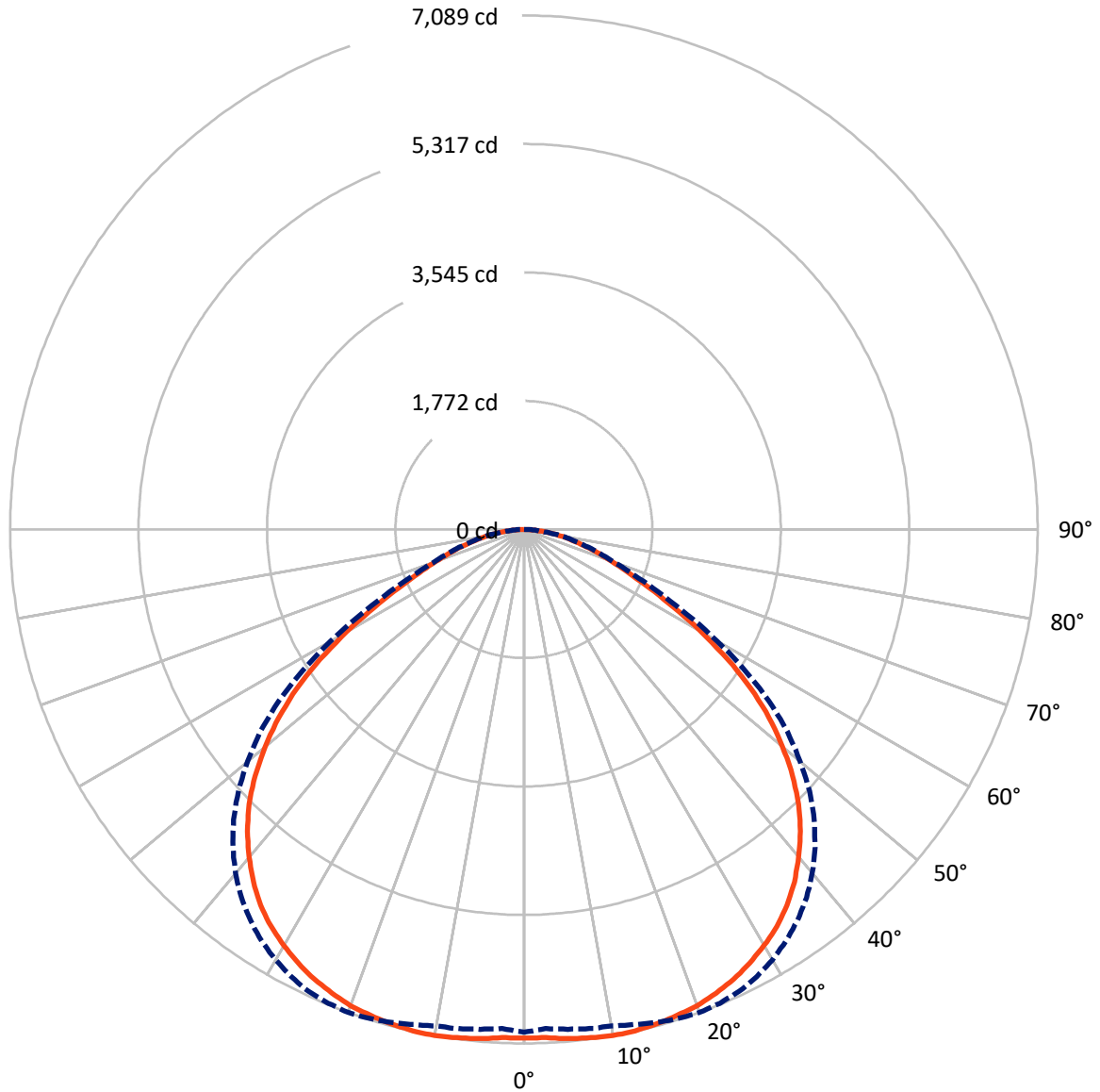
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Lumen Table



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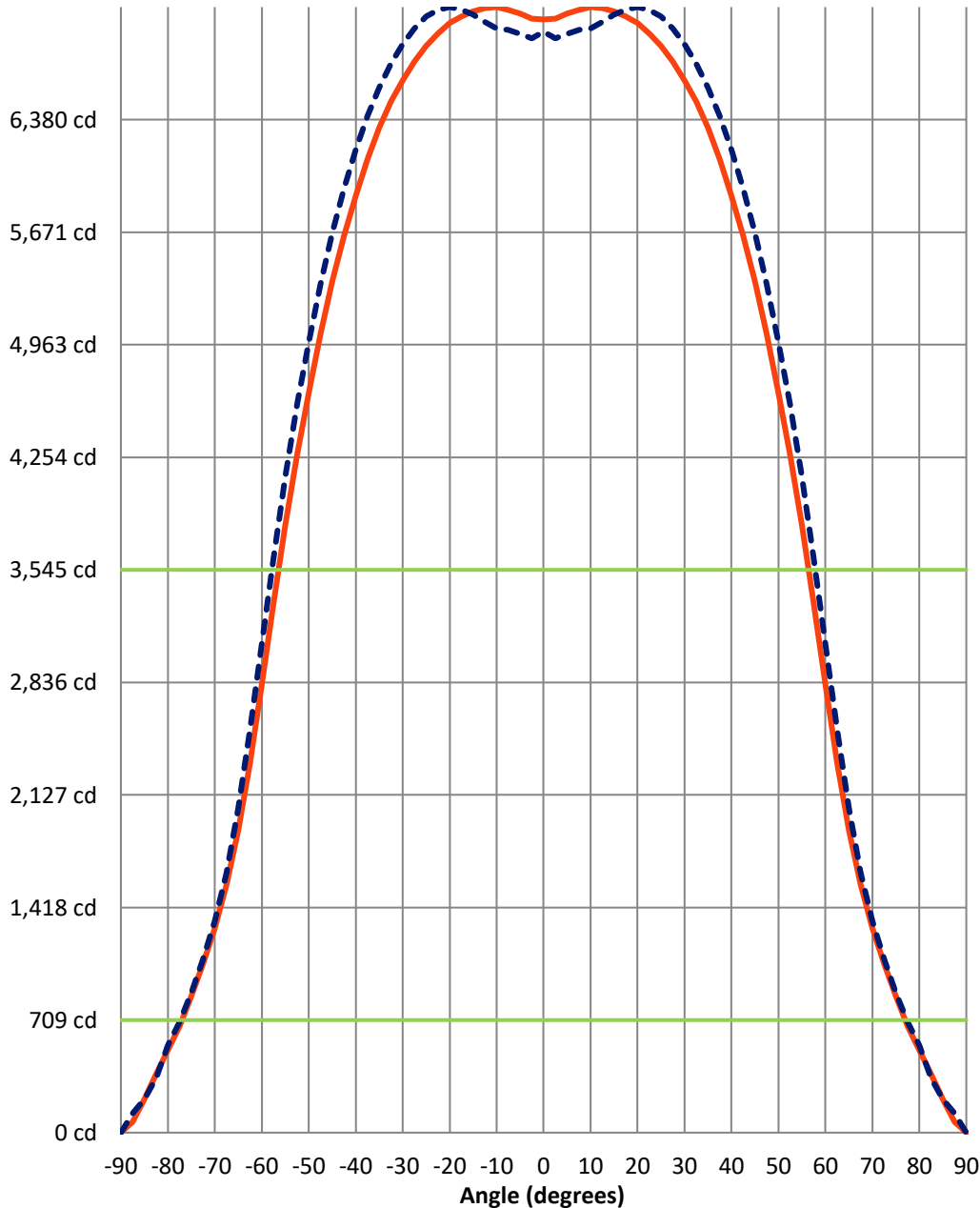
Luminous Intensity Polar Plot



— 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: 13345.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15999.2
 Efficiency: 73.6%

Spill:
 Lumens: 5749.9
 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°	57.2	61.8	64.1	66.4	68.7	70.9	73.2	70.9	68.7	68.7	66.4
85°	153.3	157.9	160.2	176.2	192.2	201.4	212.8	210.5	210.5	208.2	206.0
82.5°	306.6	320.4	331.8	347.8	357.0	370.7	379.9	373.0	368.4	359.3	352.4
80°	544.6	549.2	551.5	553.8	542.3	540.1	535.5	528.6	519.5	508.0	496.6
77.5°	693.4	698.0	702.5	698.0	695.7	693.4	686.5	679.6	670.5	661.3	647.6
75°	917.6	917.6	917.6	910.8	906.2	899.3	887.9	876.4	860.4	842.1	821.5
72.5°	1155.6	1153.3	1151.0	1137.3	1125.9	1112.1	1096.1	1082.4	1064.1	1043.5	1016.0
70°	1405.1	1409.6	1411.9	1393.6	1379.9	1361.6	1341.0	1315.8	1288.3	1258.6	1219.7
67.5°	1748.3	1743.7	1739.2	1714.0	1695.7	1670.5	1640.8	1604.1	1563.0	1517.2	1462.3
65°	2173.9	2180.8	2167.1	2141.9	2107.6	2066.4	2020.6	1968.0	1906.2	1837.6	1759.7
62.5°	2688.8	2700.3	2684.2	2652.2	2608.7	2553.8	2489.7	2414.2	2329.6	2233.4	2137.3
60°	3274.6	3272.4	3242.6	3199.1	3141.9	3073.3	3002.3	2919.9	2823.8	2711.7	2595.0
57.5°	3812.4	3807.8	3771.2	3727.7	3670.5	3597.3	3521.8	3434.8	3334.1	3215.1	3080.1
55°	4295.3	4290.7	4254.1	4208.3	4148.8	4075.6	4006.9	3924.5	3826.1	3700.3	3556.1
52.5°	4723.2	4725.5	4693.4	4643.1	4579.0	4508.1	4441.7	4359.3	4265.5	4139.6	4000.1
50°	5116.8	5114.5	5080.2	5034.4	4974.9	4906.2	4839.9	4757.5	4659.1	4537.8	4402.8
47.5°	5482.9	5478.3	5439.4	5389.1	5327.3	5267.8	5206.0	5132.8	5029.8	4908.5	4773.5
45°	5789.6	5780.4	5741.5	5693.4	5633.9	5581.3	5526.4	5471.5	5361.6	5249.5	5121.4
42.5°	6052.7	6050.4	6011.5	5963.5	5904.0	5858.2	5807.9	5739.2	5647.7	5544.7	5418.8
40°	6304.4	6286.1	6247.2	6201.5	6146.5	6107.6	6057.3	5988.6	5899.4	5798.7	5677.4
37.5°	6492.1	6494.4	6453.2	6402.8	6354.8	6318.2	6272.4	6208.3	6130.5	6032.1	5910.8
35°	6670.6	6659.1	6624.8	6581.3	6537.8	6496.7	6448.6	6393.7	6329.6	6238.1	6123.7
32.5°	6787.3	6803.3	6762.1	6716.3	6691.2	6659.1	6608.8	6551.6	6494.4	6402.8	6299.9
30°	6915.4	6901.7	6869.7	6830.8	6812.5	6791.9	6748.4	6693.5	6627.1	6544.7	6448.6
27.5°	7004.7	6997.8	6958.9	6922.3	6913.1	6894.8	6860.5	6812.5	6746.1	6666.0	6576.7
25°	7043.6	7048.2	7011.5	6990.9	6990.9	6979.5	6952.0	6910.8	6844.5	6771.3	6684.3
22.5°	7061.9	7057.3	7032.1	7027.6	7039.0	7029.8	7018.4	6981.8	6922.3	6862.8	6789.6
20°	7073.3	7041.3	7018.4	7036.7	7050.4	7048.2	7039.0	7016.1	6988.7	6938.3	6874.2
17.5°	7048.2	7027.6	7000.1	7027.6	7057.3	7059.6	7050.4	7036.7	7029.8	6997.8	6940.6
15°	6986.4	6970.3	6974.9	7002.4	7036.7	7048.2	7055.0	7071.0	7061.9	7036.7	6986.4
12.5°	6945.2	6924.6	6945.2	6972.6	6990.9	6997.8	7052.7	7082.5	7082.5	7059.6	7027.6
10°	6933.7	6892.5	6920.0	6945.2	6954.3	6995.5	7041.3	7073.3	7089.3	7071.0	7029.8
7.5°	6910.8	6883.4	6894.8	6906.3	6958.9	6988.7	7013.8	7048.2	7071.0	7068.7	7032.1
5°	6899.4	6865.1	6869.7	6917.7	6954.3	6974.9	6984.1	7013.8	7048.2	7055.0	7027.6
2.5°	6869.7	6853.6	6888.0	6892.5	6920.0	6936.0	6945.2	6972.6	7016.1	7032.1	7020.7
0°	6853.6	6830.8	6807.9	6826.2	6871.9	6906.3	6920.0	6961.2	7011.5	7027.6	7002.4



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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°	64.1	61.8	59.5	57.2	59.5	59.5	59.5	57.2	59.5	57.2	57.2
85°	199.1	189.9	183.1	173.9	164.8	157.9	148.7	139.6	137.3	135.0	130.4
82.5°	343.3	331.8	320.4	306.6	292.9	276.9	260.9	242.6	238.0	233.4	226.5
80°	482.8	466.8	450.8	434.8	421.1	405.0	386.7	366.1	352.4	341.0	327.2
77.5°	629.3	606.4	583.5	556.1	540.1	524.0	505.7	485.1	464.5	446.2	425.6
75°	796.3	771.2	748.3	720.8	691.1	661.3	631.6	604.1	574.4	546.9	519.5
72.5°	981.7	945.1	908.5	874.2	837.5	800.9	762.0	725.4	688.8	652.2	613.3
70°	1176.2	1130.5	1084.7	1038.9	990.9	942.8	897.0	851.3	805.5	757.4	714.0
67.5°	1405.1	1352.4	1292.9	1228.8	1157.9	1096.1	1036.6	981.7	926.8	871.9	816.9
65°	1691.1	1617.9	1537.8	1450.8	1368.4	1286.1	1199.1	1116.7	1052.6	988.6	926.8
62.5°	2043.5	1940.5	1828.4	1716.3	1615.6	1508.0	1407.3	1299.8	1199.1	1107.6	1032.1
60°	2464.6	2325.0	2187.7	2043.5	1903.9	1757.5	1629.3	1496.6	1370.7	1258.6	1148.8
57.5°	2929.1	2766.6	2601.9	2425.7	2235.7	2064.1	1890.2	1716.3	1567.5	1418.8	1295.2
55°	3400.5	3228.9	3043.5	2844.4	2636.2	2416.5	2180.8	1986.3	1782.6	1608.7	1448.5
52.5°	3849.0	3670.5	3478.3	3295.2	3045.8	2794.1	2535.5	2279.2	2041.2	1819.2	1624.7
50°	4249.5	4075.6	3890.2	3677.4	3446.3	3178.5	2890.2	2601.9	2320.4	2059.5	1817.0
47.5°	4615.6	4446.3	4260.9	4048.1	3837.6	3540.1	3249.5	2931.4	2617.9	2318.1	2034.4
45°	4958.9	4787.3	4595.0	4391.4	4148.8	3883.3	3583.6	3263.2	2926.8	2590.4	2263.2
42.5°	5270.1	5098.5	4904.0	4693.4	4453.2	4190.0	3899.4	3576.7	3238.0	2871.9	2512.6
40°	5542.4	5375.4	5187.7	4968.0	4743.8	4466.9	4180.8	3874.2	3524.1	3155.6	2759.8
37.5°	5780.4	5624.8	5439.4	5222.0	4984.0	4736.9	4441.7	4135.1	3819.3	3418.8	3013.8
35°	5990.9	5846.8	5656.8	5450.9	5217.5	4956.6	4679.7	4379.9	4039.0	3663.7	3270.1
32.5°	6174.0	6027.5	5853.6	5647.7	5421.1	5176.3	4892.5	4590.5	4267.8	3885.6	3457.7
30°	6329.6	6187.7	6023.0	5828.5	5611.1	5368.5	5091.6	4787.3	4457.7	4077.9	3654.5
27.5°	6464.6	6329.6	6169.4	5988.6	5780.4	5547.0	5267.8	4961.2	4624.8	4258.6	3835.3
25°	6581.3	6450.9	6302.1	6130.5	5924.6	5695.7	5432.6	5112.2	4775.8	4407.4	3988.6
22.5°	6686.6	6560.7	6412.0	6244.9	6057.3	5828.5	5563.0	5244.9	4904.0	4540.1	4128.2
20°	6780.4	6663.7	6517.3	6345.6	6158.0	5926.9	5663.7	5361.6	5018.4	4661.4	4254.1
17.5°	6855.9	6753.0	6606.5	6425.7	6238.1	6013.8	5757.5	5480.6	5116.8	4764.4	4359.3
15°	6908.6	6807.9	6675.1	6492.1	6309.0	6087.0	5830.7	5544.7	5206.0	4846.7	4446.3
12.5°	6945.2	6837.6	6714.1	6544.7	6361.6	6142.0	5892.5	5611.1	5281.5	4920.0	4521.8
10°	6954.3	6855.9	6732.4	6581.3	6402.8	6190.0	5945.2	5666.0	5343.3	4977.2	4583.6
7.5°	6958.9	6865.1	6753.0	6608.8	6432.6	6226.6	5984.1	5709.5	5389.1	5025.2	4629.4
5°	6956.6	6867.4	6766.7	6627.1	6450.9	6247.2	6009.2	5739.2	5421.1	5057.3	4663.7
2.5°	6949.8	6869.7	6775.8	6640.8	6471.5	6270.1	6034.4	5773.5	5455.5	5084.7	4691.1
0°	6968.1	6899.4	6780.4	6636.2	6476.1	6270.1	6032.1	5778.1	5460.0	5082.4	4688.9



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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°	57.2	54.9	54.9	52.6	50.3	48.1	43.5	41.2	36.6	29.7	22.9
85°	123.6	116.7	109.8	105.3	100.7	96.1	89.2	82.4	73.2	59.5	45.8
82.5°	217.4	203.7	189.9	173.9	160.2	146.5	135.0	123.6	109.8	89.2	68.7
80°	311.2	290.6	270.0	247.1	226.5	203.7	183.1	164.8	146.5	119.0	91.5
77.5°	405.0	377.6	347.8	320.4	290.6	260.9	231.1	206.0	178.5	146.5	114.4
75°	492.0	460.0	432.5	393.6	357.0	318.1	279.2	244.9	210.5	171.6	137.3
72.5°	579.0	537.8	498.9	462.2	421.1	373.0	329.5	286.0	242.6	196.8	155.6
70°	665.9	615.6	567.5	524.0	478.3	430.2	377.6	327.2	274.6	219.7	171.6
67.5°	755.2	698.0	643.0	588.1	535.5	480.6	425.6	368.4	306.6	242.6	189.9
65°	853.6	782.6	716.3	654.5	592.7	533.2	471.4	409.6	341.0	267.7	206.0
62.5°	952.0	874.2	796.3	718.5	649.9	583.5	517.2	448.5	373.0	295.2	222.0
60°	1057.2	968.0	878.7	791.8	707.1	633.9	560.6	487.4	407.3	320.4	238.0
57.5°	1173.9	1066.4	965.7	867.3	771.2	684.2	604.1	526.3	437.1	345.5	256.3
55°	1306.7	1173.9	1054.9	945.1	839.8	734.6	647.6	567.5	471.4	370.7	276.9
52.5°	1446.2	1292.9	1148.8	1025.2	913.1	794.1	688.8	599.6	505.7	395.9	295.2
50°	1608.7	1414.2	1254.0	1103.0	977.1	853.6	732.3	636.2	540.1	425.6	313.5
47.5°	1775.8	1560.7	1359.3	1194.5	1045.8	910.8	782.6	668.2	572.1	453.1	331.8
45°	1970.3	1700.3	1478.3	1283.8	1112.1	970.3	833.0	702.5	599.6	480.6	350.1
42.5°	2157.9	1865.0	1601.9	1382.2	1187.7	1027.5	878.7	739.1	627.0	508.0	366.1
40°	2379.9	2029.8	1720.8	1476.0	1263.2	1082.4	924.5	778.0	652.2	533.2	382.2
37.5°	2592.7	2196.8	1865.0	1579.0	1336.4	1137.3	970.3	814.7	675.1	558.4	402.8
35°	2803.2	2382.2	2002.3	1675.1	1411.9	1199.1	1016.0	849.0	698.0	579.0	421.1
32.5°	3004.6	2556.1	2141.9	1782.6	1494.3	1256.3	1057.2	881.0	720.8	597.3	439.4
30°	3192.3	2720.9	2279.2	1892.5	1569.8	1308.9	1096.1	913.1	748.3	613.3	457.7
27.5°	3363.9	2881.0	2416.5	1995.5	1640.8	1357.0	1137.3	942.8	771.2	629.3	473.7
25°	3519.5	3025.2	2542.4	2089.3	1704.8	1409.6	1176.2	972.6	791.8	643.0	487.4
22.5°	3666.0	3157.9	2656.8	2183.1	1782.6	1462.3	1212.8	1000.0	812.4	656.8	501.2
20°	3794.1	3279.2	2766.6	2276.9	1851.3	1510.3	1244.9	1025.2	830.7	665.9	514.9
17.5°	3897.1	3386.8	2865.0	2359.3	1910.8	1551.5	1272.3	1048.1	846.7	677.4	524.0
15°	3988.6	3478.3	2947.4	2430.2	1963.4	1585.8	1297.5	1066.4	860.4	684.2	535.5
12.5°	4066.4	3556.1	3018.3	2492.0	2009.2	1615.6	1318.1	1080.1	871.9	691.1	542.3
10°	4130.5	3617.9	3077.8	2540.1	2045.8	1638.5	1334.1	1093.8	881.0	698.0	549.2
7.5°	4178.5	3663.7	3121.3	2581.3	2075.5	1654.5	1347.8	1103.0	890.2	702.5	560.6
5°	4215.2	3702.6	3155.6	2608.7	2098.4	1677.4	1363.9	1114.4	899.3	707.1	560.6
2.5°	4242.6	3734.6	3183.1	2631.6	2116.7	1672.8	1363.9	1112.1	899.3	707.1	558.4
0°	4238.0	3736.9	3180.8	2631.6	2116.7	1668.2	1363.9	1109.9	899.3	707.1	558.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.0	11.4	4.6	0.0
85°	34.3	22.9	11.4	0.0
82.5°	50.3	32.0	16.0	0.0
80°	66.4	43.5	20.6	0.0
77.5°	84.7	54.9	27.5	0.0
75°	100.7	64.1	32.0	0.0
72.5°	116.7	75.5	36.6	0.0
70°	130.4	84.7	41.2	0.0
67.5°	144.2	96.1	48.1	0.0
65°	155.6	105.3	52.6	0.0
62.5°	164.8	116.7	57.2	0.0
60°	176.2	125.9	61.8	0.0
57.5°	185.4	132.7	66.4	0.0
55°	194.5	137.3	70.9	0.0
52.5°	203.7	144.2	75.5	0.0
50°	212.8	151.0	80.1	0.0
47.5°	222.0	155.6	82.4	0.0
45°	235.7	162.5	87.0	0.0
42.5°	247.1	167.1	91.5	0.0
40°	258.6	171.6	93.8	0.0
37.5°	270.0	176.2	98.4	0.0
35°	281.5	180.8	100.7	0.0
32.5°	290.6	185.4	103.0	0.0
30°	299.8	189.9	105.3	0.0
27.5°	308.9	192.2	107.6	0.0
25°	315.8	196.8	109.8	0.0
22.5°	322.7	199.1	112.1	0.0
20°	327.2	201.4	114.4	0.0
17.5°	334.1	203.7	116.7	0.0
15°	336.4	206.0	121.3	0.0
12.5°	341.0	208.2	121.3	0.0
10°	343.3	210.5	121.3	0.0
7.5°	347.8	210.5	121.3	0.0
5°	345.5	210.5	121.3	0.0
2.5°	345.5	210.5	121.3	0.0
0°	343.3	210.5	121.3	0.0

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