

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: P628175

Luminaire Tested: **IFLD-L-SA8A-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628175
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

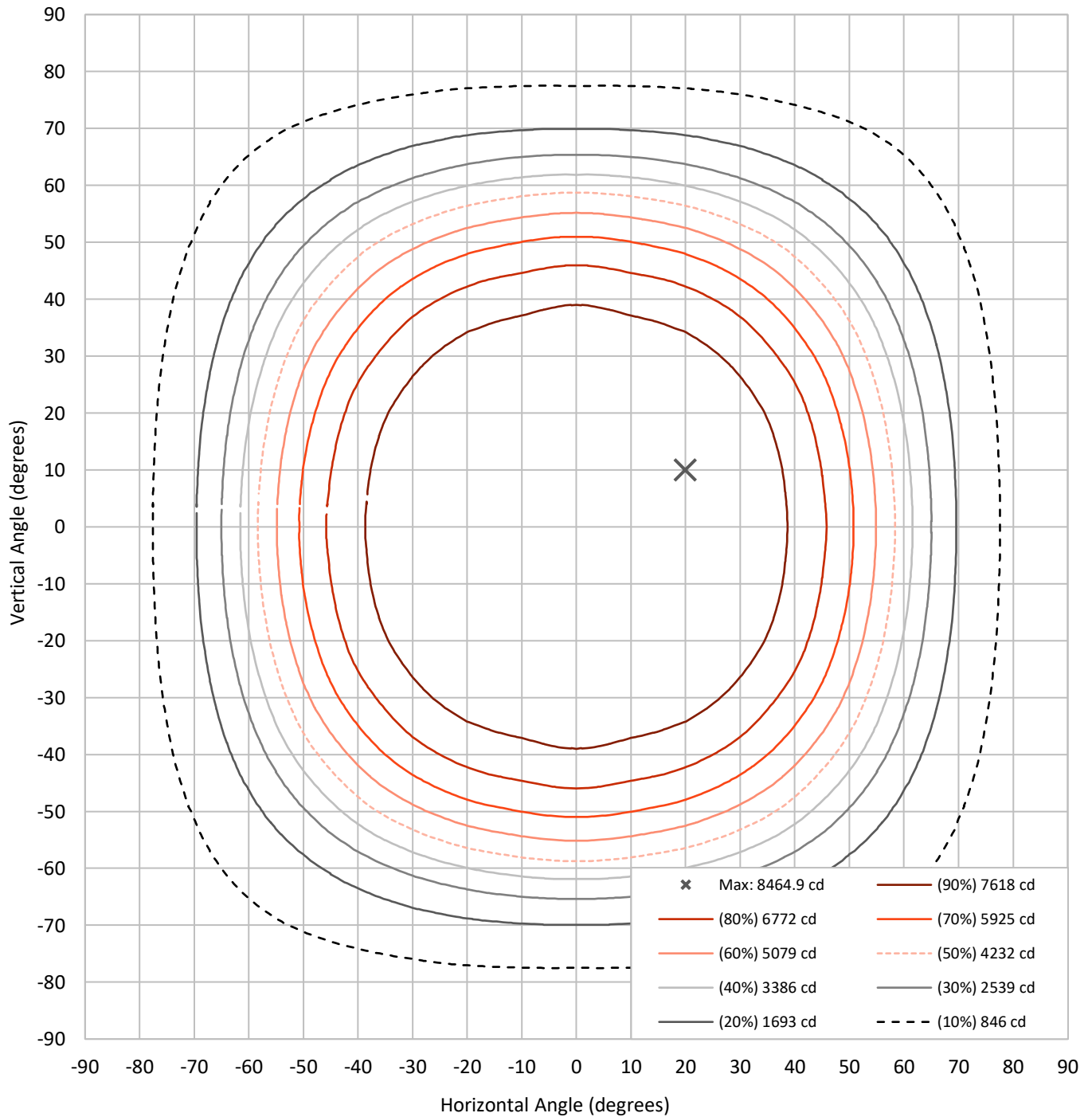
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25969.2 lumens	Max Intensity:	8464.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	104.8 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:	15935.2 lumens	Field Lumens:	19103.6 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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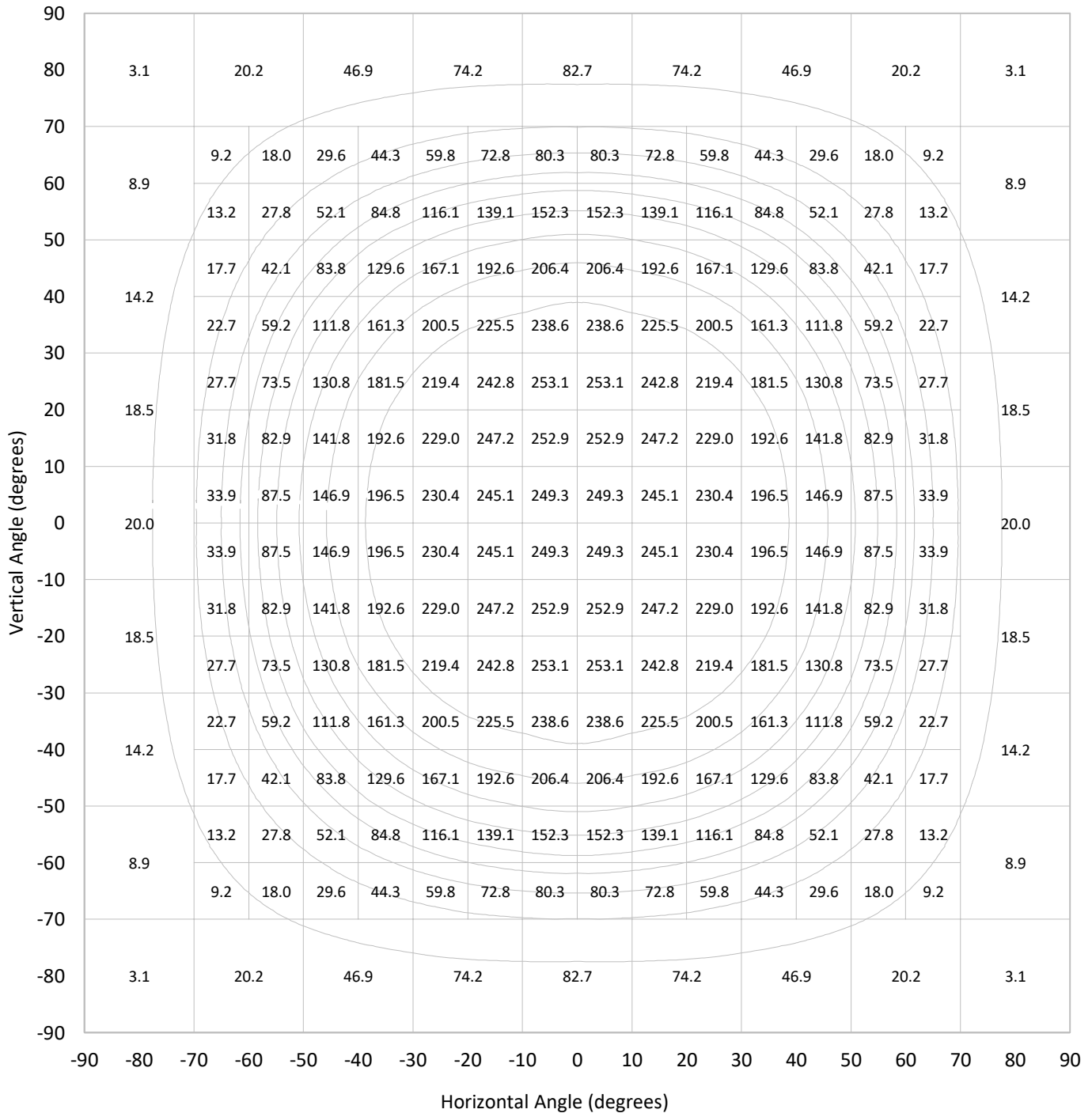
Iso-Candela Plot





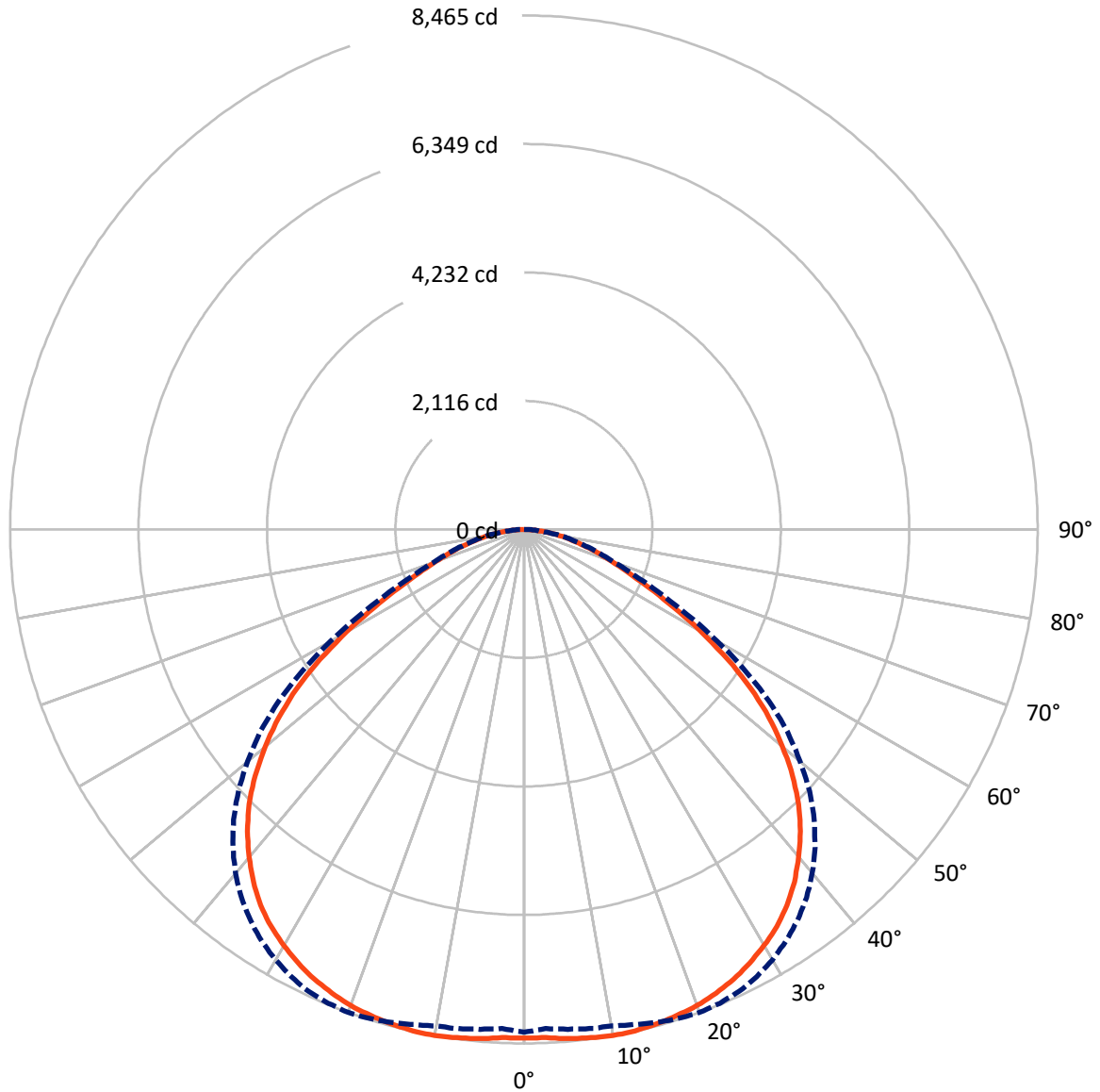
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Lumen Table



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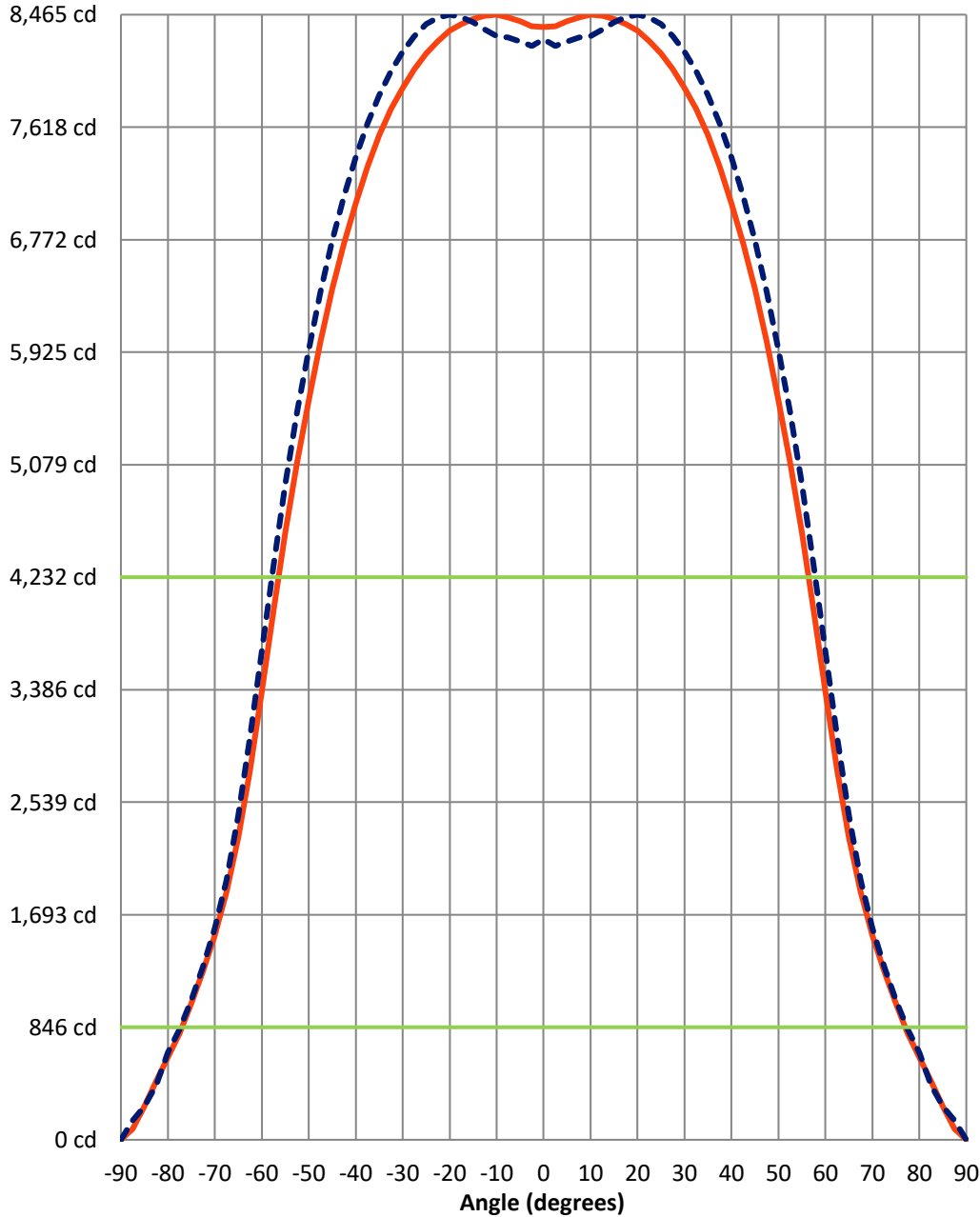
Luminous Intensity Polar Plot



— 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: 15935.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 19103.6
 Efficiency: 73.6%

Spill:
 Lumens: 6865.6
 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°	68.3	73.8	76.5	79.2	82.0	84.7	87.4	84.7	82.0	82.0	79.2
85°	183.1	188.5	191.3	210.4	229.5	240.4	254.1	251.4	251.4	248.6	245.9
82.5°	366.1	382.5	396.2	415.3	426.3	442.6	453.6	445.4	439.9	429.0	420.8
80°	650.3	655.8	658.5	661.2	647.6	644.8	639.4	631.2	620.3	606.6	592.9
77.5°	827.9	833.4	838.8	833.4	830.6	827.9	819.7	811.5	800.6	789.7	773.3
75°	1095.7	1095.7	1095.7	1087.5	1082.0	1073.8	1060.2	1046.5	1027.4	1005.5	980.9
72.5°	1379.9	1377.1	1374.4	1358.0	1344.3	1327.9	1308.8	1292.4	1270.6	1246.0	1213.2
70°	1677.7	1683.1	1685.9	1664.0	1647.6	1625.8	1601.2	1571.1	1538.3	1502.8	1456.4
67.5°	2087.5	2082.1	2076.6	2046.6	2024.7	1994.6	1959.1	1915.4	1866.2	1811.6	1746.0
65°	2595.8	2604.0	2587.6	2557.5	2516.5	2467.3	2412.7	2349.8	2276.1	2194.1	2101.2
62.5°	3210.5	3224.2	3205.1	3166.8	3114.9	3049.3	2972.8	2882.7	2781.6	2666.8	2552.0
60°	3910.0	3907.3	3871.8	3819.9	3751.6	3669.6	3584.9	3486.5	3371.8	3237.9	3098.5
57.5°	4552.1	4546.7	4503.0	4451.1	4382.7	4295.3	4205.1	4101.3	3981.1	3839.0	3677.8
55°	5128.7	5123.2	5079.5	5024.9	4953.8	4866.4	4784.4	4686.0	4568.5	4418.3	4246.1
52.5°	5639.6	5642.4	5604.1	5544.0	5467.5	5382.8	5303.6	5205.2	5093.2	4942.9	4776.2
50°	6109.6	6106.9	6065.9	6011.2	5940.2	5858.2	5779.0	5680.6	5563.1	5418.3	5257.1
47.5°	6546.8	6541.3	6494.9	6434.8	6361.0	6289.9	6216.2	6128.7	6005.8	5861.0	5699.7
45°	6912.9	6902.0	6855.5	6798.2	6727.1	6664.3	6598.7	6533.1	6402.0	6268.1	6115.1
42.5°	7227.2	7224.4	7178.0	7120.6	7049.5	6994.9	6934.8	6852.8	6743.5	6620.6	6470.3
40°	7527.7	7505.9	7459.4	7404.8	7339.2	7292.7	7232.6	7150.6	7044.1	6923.9	6779.0
37.5°	7751.8	7754.5	7705.3	7645.2	7587.8	7544.1	7489.5	7413.0	7320.1	7202.6	7057.7
35°	7964.9	7951.2	7910.2	7858.3	7806.4	7757.2	7699.9	7634.3	7557.8	7448.5	7311.9
32.5°	8104.2	8123.4	8074.2	8019.5	7989.5	7951.2	7891.1	7822.8	7754.5	7645.2	7522.2
30°	8257.3	8240.9	8202.6	8156.2	8134.3	8109.7	8057.8	7992.2	7913.0	7814.6	7699.9
27.5°	8363.8	8355.6	8309.2	8265.5	8254.5	8232.7	8191.7	8134.3	8055.1	7959.4	7852.9
25°	8410.3	8415.7	8372.0	8347.4	8347.4	8333.8	8301.0	8251.8	8172.6	8085.1	7981.3
22.5°	8432.1	8426.7	8396.6	8391.1	8404.8	8393.9	8380.2	8336.5	8265.5	8194.4	8107.0
20°	8445.8	8407.5	8380.2	8402.1	8418.5	8415.7	8404.8	8377.5	8344.7	8284.6	8208.1
17.5°	8415.7	8391.1	8358.4	8391.1	8426.7	8429.4	8418.5	8402.1	8393.9	8355.6	8287.3
15°	8342.0	8322.8	8328.3	8361.1	8402.1	8415.7	8423.9	8443.1	8432.1	8402.1	8342.0
12.5°	8292.8	8268.2	8292.8	8325.6	8347.4	8355.6	8421.2	8456.7	8456.7	8429.4	8391.1
10°	8279.1	8229.9	8262.7	8292.8	8303.7	8352.9	8407.5	8445.8	8464.9	8443.1	8393.9
7.5°	8251.8	8219.0	8232.7	8246.3	8309.2	8344.7	8374.8	8415.7	8443.1	8440.3	8396.6
5°	8238.1	8197.1	8202.6	8260.0	8303.7	8328.3	8339.2	8374.8	8415.7	8423.9	8391.1
2.5°	8202.6	8183.5	8224.5	8229.9	8262.7	8281.9	8292.8	8325.6	8377.5	8396.6	8382.9
0°	8183.5	8156.2	8128.8	8150.7	8205.3	8246.3	8262.7	8311.9	8372.0	8391.1	8361.1



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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°	76.5	73.8	71.0	68.3	71.0	71.0	71.0	68.3	71.0	68.3	68.3
85°	237.7	226.8	218.6	207.7	196.7	188.5	177.6	166.7	163.9	161.2	155.7
82.5°	409.9	396.2	382.5	366.1	349.7	330.6	311.5	289.6	284.2	278.7	270.5
80°	576.5	557.4	538.3	519.2	502.8	483.6	461.8	437.2	420.8	407.1	390.7
77.5°	751.4	724.1	696.8	664.0	644.8	625.7	603.9	579.3	554.7	532.8	508.2
75°	950.9	920.8	893.5	860.7	825.2	789.7	754.1	721.3	685.8	653.0	620.3
72.5°	1172.2	1128.5	1084.8	1043.8	1000.1	956.3	909.9	866.2	822.4	778.7	732.3
70°	1404.4	1349.8	1295.1	1240.5	1183.1	1125.7	1071.1	1016.4	961.8	904.4	852.5
67.5°	1677.7	1614.8	1543.8	1467.3	1382.6	1308.8	1237.8	1172.2	1106.6	1041.0	975.5
65°	2019.2	1931.8	1836.2	1732.3	1634.0	1535.6	1431.8	1333.4	1256.9	1180.4	1106.6
62.5°	2440.0	2317.1	2183.2	2049.3	1929.1	1800.6	1680.4	1552.0	1431.8	1322.5	1232.3
60°	2942.8	2776.1	2612.2	2440.0	2273.3	2098.5	1945.5	1787.0	1636.7	1502.8	1371.7
57.5°	3497.4	3303.5	3106.7	2896.3	2669.5	2464.6	2256.9	2049.3	1871.7	1694.1	1546.5
55°	4060.3	3855.4	3634.1	3396.4	3147.7	2885.4	2604.0	2371.7	2128.5	1920.9	1729.6
52.5°	4595.9	4382.7	4153.2	3934.6	3636.8	3336.2	3027.5	2721.5	2437.3	2172.2	1940.0
50°	5074.0	4866.4	4645.1	4390.9	4115.0	3795.3	3451.0	3106.7	2770.6	2459.1	2169.5
47.5°	5511.2	5309.0	5087.7	4833.6	4582.2	4227.0	3880.0	3500.2	3125.8	2767.9	2429.1
45°	5921.1	5716.1	5486.6	5243.4	4953.8	4636.9	4278.9	3896.4	3494.7	3093.1	2702.3
42.5°	6292.7	6087.7	5855.5	5604.1	5317.2	5003.0	4656.0	4270.7	3866.3	3429.1	3000.2
40°	6617.8	6418.4	6194.3	5932.0	5664.2	5333.6	4992.1	4625.9	4207.9	3768.0	3295.3
37.5°	6902.0	6716.2	6494.9	6235.3	5951.1	5656.0	5303.6	4937.4	4560.3	4082.2	3598.5
35°	7153.4	6981.2	6754.4	6508.5	6229.8	5918.3	5587.7	5229.8	4822.7	4374.5	3904.6
32.5°	7372.0	7197.1	6989.4	6743.5	6473.0	6180.6	5841.8	5481.2	5095.9	4639.6	4128.6
30°	7557.8	7388.4	7191.6	6959.4	6699.8	6410.2	6079.6	5716.1	5322.7	4869.1	4363.6
27.5°	7719.0	7557.8	7366.5	7150.6	6902.0	6623.3	6289.9	5923.8	5522.1	5085.0	4579.5
25°	7858.3	7702.6	7525.0	7320.1	7074.1	6800.9	6486.7	6104.1	5702.5	5262.6	4762.5
22.5°	7984.0	7833.7	7656.1	7456.7	7232.6	6959.4	6642.4	6262.6	5855.5	5421.0	4929.2
20°	8096.0	7956.7	7781.8	7576.9	7352.8	7076.9	6762.6	6402.0	5992.1	5565.9	5079.5
17.5°	8186.2	8063.3	7888.4	7672.5	7448.5	7180.7	6874.7	6544.1	6109.6	5688.8	5205.2
15°	8249.1	8128.8	7970.4	7751.8	7533.2	7268.1	6962.1	6620.6	6216.2	5787.2	5309.0
12.5°	8292.8	8164.4	8016.8	7814.6	7596.0	7333.7	7035.9	6699.8	6306.3	5874.6	5399.2
10°	8303.7	8186.2	8038.7	7858.3	7645.2	7391.1	7098.7	6765.4	6380.1	5942.9	5473.0
7.5°	8309.2	8197.1	8063.3	7891.1	7680.7	7434.8	7145.2	6817.3	6434.8	6000.3	5527.6
5°	8306.4	8199.9	8079.7	7913.0	7702.6	7459.4	7175.2	6852.8	6473.0	6038.6	5568.6
2.5°	8298.2	8202.6	8090.6	7929.4	7727.2	7486.7	7205.3	6893.8	6514.0	6071.4	5601.4
0°	8320.1	8238.1	8096.0	7923.9	7732.6	7486.7	7202.6	6899.3	6519.5	6068.6	5598.7



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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°	68.3	65.6	65.6	62.8	60.1	57.4	51.9	49.2	43.7	35.5	27.3
85°	147.5	139.4	131.2	125.7	120.2	114.8	106.6	98.4	87.4	71.0	54.6
82.5°	259.6	243.2	226.8	207.7	191.3	174.9	161.2	147.5	131.2	106.6	82.0
80°	371.6	347.0	322.4	295.1	270.5	243.2	218.6	196.7	174.9	142.1	109.3
77.5°	483.6	450.8	415.3	382.5	347.0	311.5	276.0	245.9	213.1	174.9	136.6
75°	587.5	549.2	516.4	470.0	426.3	379.8	333.4	292.4	251.4	204.9	163.9
72.5°	691.3	642.1	595.7	551.9	502.8	445.4	393.5	341.5	289.6	235.0	185.8
70°	795.1	735.0	677.6	625.7	571.1	513.7	450.8	390.7	327.9	262.3	204.9
67.5°	901.7	833.4	767.8	702.2	639.4	573.8	508.2	439.9	366.1	289.6	226.8
65°	1019.2	934.5	855.2	781.5	707.7	636.6	562.9	489.1	407.1	319.7	245.9
62.5°	1136.7	1043.8	950.9	858.0	776.0	696.8	617.5	535.5	445.4	352.5	265.0
60°	1262.4	1155.8	1049.2	945.4	844.3	756.9	669.4	582.0	486.4	382.5	284.2
57.5°	1401.7	1273.3	1153.1	1035.6	920.8	817.0	721.3	628.4	521.9	412.6	306.0
55°	1560.2	1401.7	1259.6	1128.5	1002.8	877.1	773.3	677.6	562.9	442.6	330.6
52.5°	1726.9	1543.8	1371.7	1224.1	1090.2	948.1	822.4	715.9	603.9	472.7	352.5
50°	1920.9	1688.6	1497.3	1317.0	1166.7	1019.2	874.4	759.6	644.8	508.2	374.3
47.5°	2120.3	1863.5	1623.0	1426.3	1248.7	1087.5	934.5	797.9	683.1	541.0	396.2
45°	2352.6	2030.2	1765.1	1532.9	1327.9	1158.5	994.6	838.8	715.9	573.8	418.1
42.5°	2576.6	2226.9	1912.7	1650.4	1418.1	1226.8	1049.2	882.6	748.7	606.6	437.2
40°	2841.7	2423.6	2054.8	1762.4	1508.3	1292.4	1103.9	929.0	778.7	636.6	456.3
37.5°	3095.8	2623.1	2226.9	1885.3	1595.7	1358.0	1158.5	972.7	806.1	666.7	480.9
35°	3347.2	2844.4	2390.8	2000.1	1685.9	1431.8	1213.2	1013.7	833.4	691.3	502.8
32.5°	3587.6	3052.1	2557.5	2128.5	1784.2	1500.1	1262.4	1052.0	860.7	713.2	524.6
30°	3811.7	3248.8	2721.5	2259.7	1874.4	1562.9	1308.8	1090.2	893.5	732.3	546.5
27.5°	4016.6	3440.1	2885.4	2382.6	1959.1	1620.3	1358.0	1125.7	920.8	751.4	565.6
25°	4202.4	3612.2	3035.7	2494.7	2035.6	1683.1	1404.4	1161.3	945.4	767.8	582.0
22.5°	4377.3	3770.7	3172.3	2606.7	2128.5	1746.0	1448.2	1194.1	970.0	784.2	598.4
20°	4530.3	3915.5	3303.5	2718.7	2210.5	1803.4	1486.4	1224.1	991.9	795.1	614.8
17.5°	4653.2	4043.9	3420.9	2817.1	2281.5	1852.6	1519.2	1251.4	1011.0	808.8	625.7
15°	4762.5	4153.2	3519.3	2901.8	2344.4	1893.5	1549.3	1273.3	1027.4	817.0	639.4
12.5°	4855.4	4246.1	3604.0	2975.6	2399.0	1929.1	1573.9	1289.7	1041.0	825.2	647.6
10°	4932.0	4319.9	3675.1	3032.9	2442.7	1956.4	1593.0	1306.1	1052.0	833.4	655.8
7.5°	4989.3	4374.5	3727.0	3082.1	2478.3	1975.5	1609.4	1317.0	1062.9	838.8	669.4
5°	5033.0	4421.0	3768.0	3114.9	2505.6	2002.8	1628.5	1330.7	1073.8	844.3	669.4
2.5°	5065.8	4459.2	3800.7	3142.2	2527.5	1997.4	1628.5	1327.9	1073.8	844.3	666.7
0°	5060.4	4462.0	3798.0	3142.2	2527.5	1991.9	1628.5	1325.2	1073.8	844.3	666.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.1	13.7	5.5	0.0
85°	41.0	27.3	13.7	0.0
82.5°	60.1	38.3	19.1	0.0
80°	79.2	51.9	24.6	0.0
77.5°	101.1	65.6	32.8	0.0
75°	120.2	76.5	38.3	0.0
72.5°	139.4	90.2	43.7	0.0
70°	155.7	101.1	49.2	0.0
67.5°	172.1	114.8	57.4	0.0
65°	185.8	125.7	62.8	0.0
62.5°	196.7	139.4	68.3	0.0
60°	210.4	150.3	73.8	0.0
57.5°	221.3	158.5	79.2	0.0
55°	232.3	163.9	84.7	0.0
52.5°	243.2	172.1	90.2	0.0
50°	254.1	180.3	95.6	0.0
47.5°	265.0	185.8	98.4	0.0
45°	281.4	194.0	103.8	0.0
42.5°	295.1	199.5	109.3	0.0
40°	308.8	204.9	112.0	0.0
37.5°	322.4	210.4	117.5	0.0
35°	336.1	215.9	120.2	0.0
32.5°	347.0	221.3	123.0	0.0
30°	357.9	226.8	125.7	0.0
27.5°	368.9	229.5	128.4	0.0
25°	377.1	235.0	131.2	0.0
22.5°	385.3	237.7	133.9	0.0
20°	390.7	240.4	136.6	0.0
17.5°	398.9	243.2	139.4	0.0
15°	401.7	245.9	144.8	0.0
12.5°	407.1	248.6	144.8	0.0
10°	409.9	251.4	144.8	0.0
7.5°	415.3	251.4	144.8	0.0
5°	412.6	251.4	144.8	0.0
2.5°	412.6	251.4	144.8	0.0
0°	409.9	251.4	144.8	0.0

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