

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: P628163

Luminaire Tested: **IFLD-S-SA6D-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628163
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

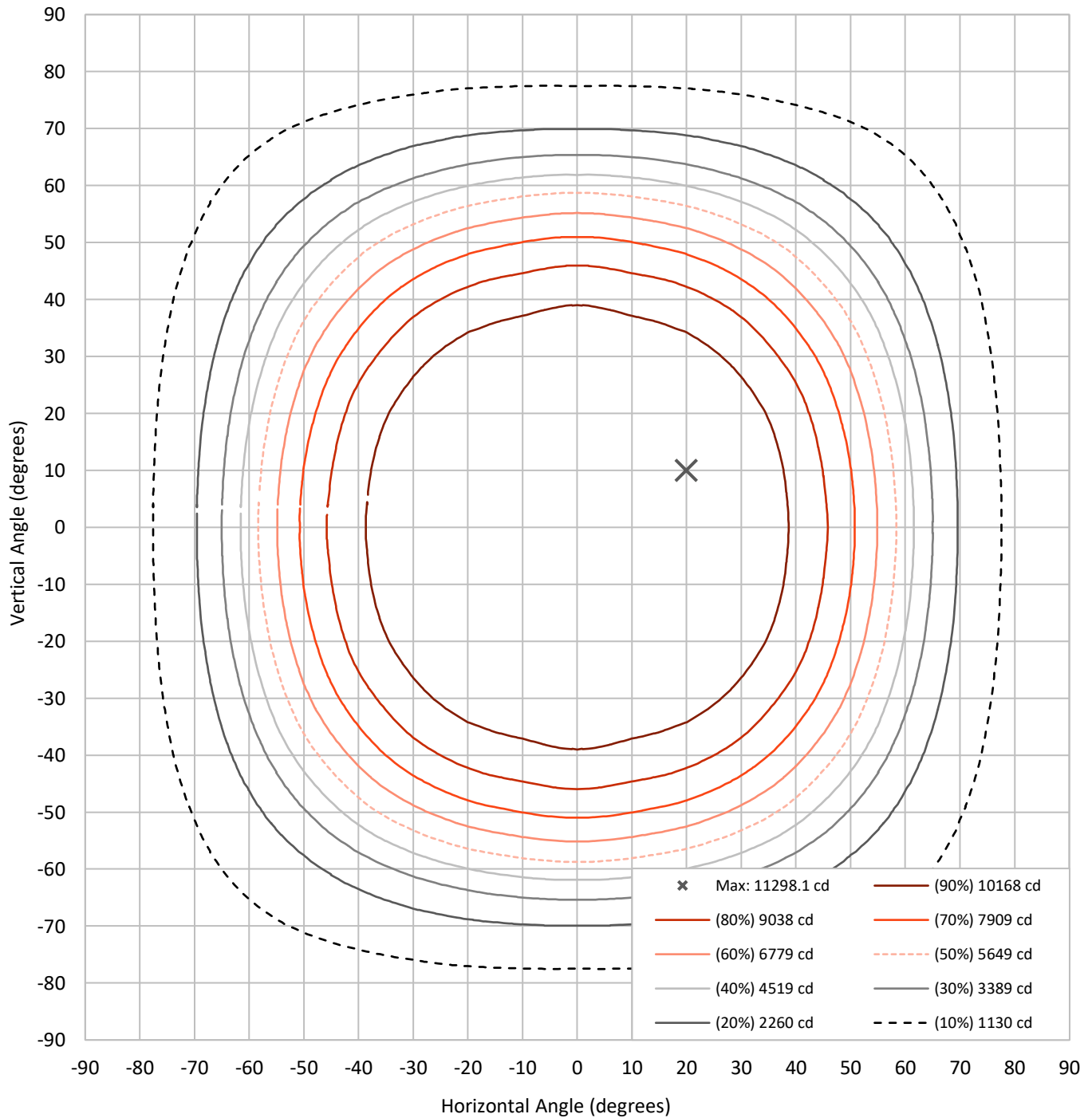
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34661.2 lumens	Max Intensity:	11298.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21268.8 lumens	Field Lumens:	25497.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 368.2
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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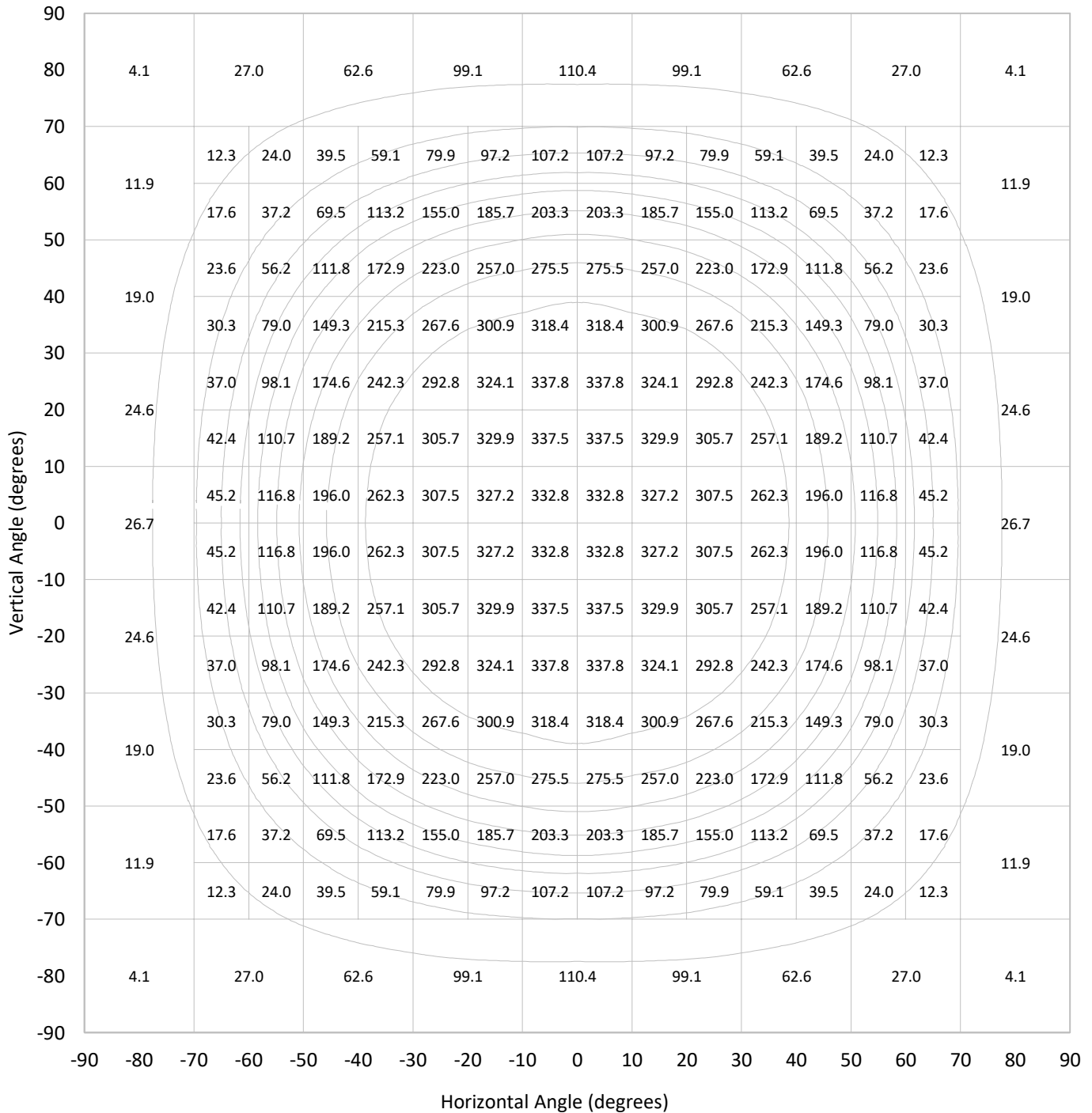
Iso-Candela Plot





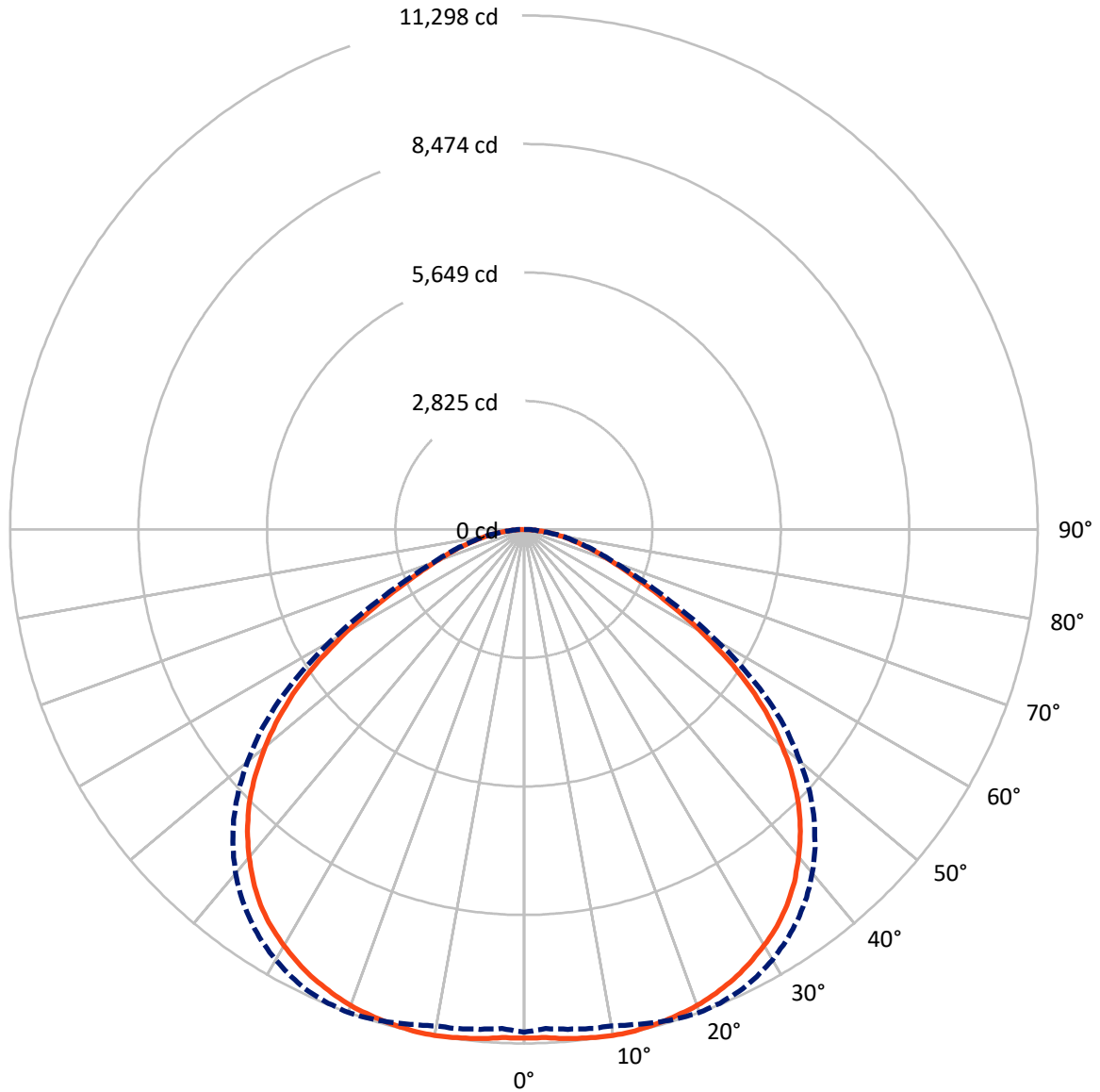
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Lumen Table



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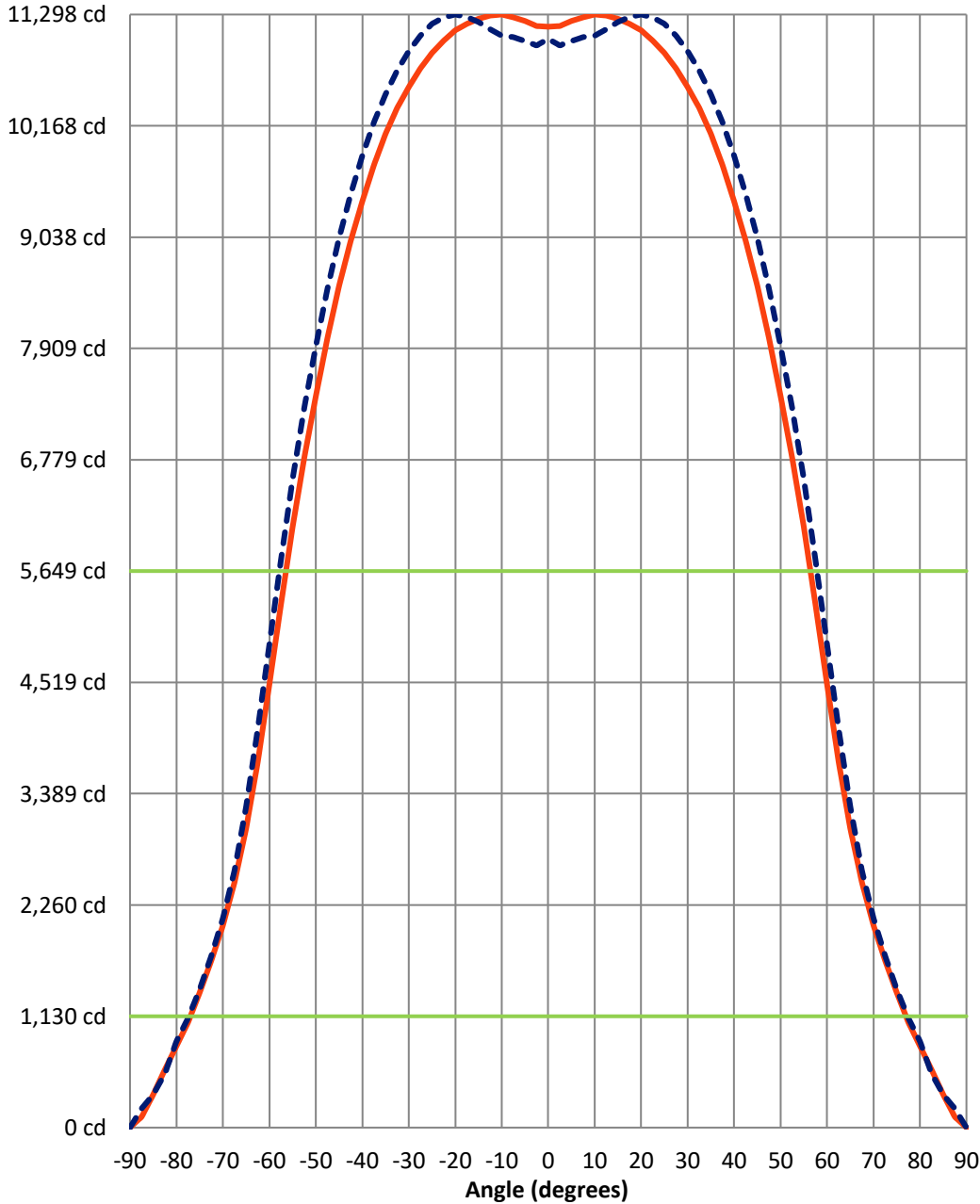
Luminous Intensity Polar Plot



— 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: 21268.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 25497.7
 Efficiency: 73.6%

Spill:
 Lumens: 9163.5
 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°	91.2	98.5	102.1	105.8	109.4	113.1	116.7	113.1	109.4	109.4	105.8
85°	244.3	251.6	255.3	280.8	306.3	320.9	339.2	335.5	335.5	331.9	328.2
82.5°	488.7	510.6	528.8	554.3	568.9	590.8	605.4	594.4	587.2	572.6	561.6
80°	868.0	875.3	878.9	882.6	864.3	860.7	853.4	842.4	827.8	809.6	791.4
77.5°	1105.0	1112.3	1119.6	1112.3	1108.7	1105.0	1094.1	1083.1	1068.5	1054.0	1032.1
75°	1462.4	1462.4	1462.4	1451.5	1444.2	1433.2	1415.0	1396.8	1371.2	1342.1	1309.2
72.5°	1841.7	1838.0	1834.4	1812.5	1794.3	1772.4	1746.9	1725.0	1695.8	1663.0	1619.2
70°	2239.2	2246.5	2250.1	2221.0	2199.1	2169.9	2137.1	2097.0	2053.2	2005.8	1943.8
67.5°	2786.2	2778.9	2771.7	2731.5	2702.4	2662.2	2614.8	2556.5	2490.8	2417.9	2330.4
65°	3464.6	3475.5	3453.6	3413.5	3358.8	3293.2	3220.2	3136.3	3037.9	2928.5	2804.5
62.5°	4285.1	4303.4	4277.8	4226.8	4157.5	4070.0	3967.8	3847.5	3712.6	3559.4	3406.2
60°	5218.7	5215.1	5167.7	5098.4	5007.2	4897.8	4784.8	4653.5	4500.3	4321.6	4135.6
57.5°	6075.8	6068.5	6010.1	5940.8	5849.6	5732.9	5612.6	5474.0	5313.6	5123.9	4908.7
55°	6845.3	6838.0	6779.6	6706.7	6611.9	6495.2	6385.7	6254.5	6097.6	5897.1	5667.3
52.5°	7527.2	7530.9	7479.8	7399.6	7297.5	7184.4	7078.7	6947.4	6797.8	6597.3	6374.8
50°	8154.5	8150.9	8096.1	8023.2	7928.4	7819.0	7713.2	7581.9	7425.1	7231.8	7016.7
47.5°	8738.0	8730.7	8668.7	8588.5	8490.0	8395.2	8296.7	8180.0	8015.9	7822.6	7607.5
45°	9226.7	9212.1	9150.1	9073.5	8978.7	8894.8	8807.3	8719.8	8544.7	8366.0	8161.8
42.5°	9646.1	9642.4	9580.4	9503.9	9409.0	9336.1	9255.9	9146.5	9000.6	8836.5	8635.9
40°	10047.2	10018.1	9956.1	9883.1	9795.6	9733.6	9653.4	9544.0	9401.7	9241.3	9048.0
37.5°	10346.3	10349.9	10284.3	10204.1	10127.5	10069.1	9996.2	9894.1	9770.1	9613.3	9420.0
35°	10630.8	10612.5	10557.8	10488.5	10419.2	10353.6	10277.0	10189.5	10087.4	9941.5	9759.1
32.5°	10816.7	10842.3	10776.6	10703.7	10663.6	10612.5	10532.3	10441.1	10349.9	10204.1	10040.0
30°	11021.0	10999.1	10948.0	10886.0	10856.9	10824.0	10754.7	10667.2	10561.5	10430.2	10277.0
27.5°	11163.2	11152.3	11090.3	11031.9	11017.3	10988.2	10933.4	10856.9	10751.1	10623.5	10481.2
25°	11225.2	11232.5	11174.1	11141.3	11141.3	11123.1	11079.3	11013.7	10907.9	10791.2	10652.6
22.5°	11254.4	11247.1	11207.0	11199.7	11217.9	11203.3	11185.1	11126.7	11031.9	10937.1	10820.4
20°	11272.6	11221.6	11185.1	11214.3	11236.1	11232.5	11217.9	11181.4	11137.7	11057.4	10955.3
17.5°	11232.5	11199.7	11155.9	11199.7	11247.1	11250.7	11236.1	11214.3	11203.3	11152.3	11061.1
15°	11134.0	11108.5	11115.8	11159.6	11214.3	11232.5	11243.4	11269.0	11254.4	11214.3	11134.0
12.5°	11068.4	11035.6	11068.4	11112.1	11141.3	11152.3	11239.8	11287.2	11287.2	11250.7	11199.7
10°	11050.1	10984.5	11028.3	11068.4	11083.0	11148.6	11221.6	11272.6	11298.1	11269.0	11203.3
7.5°	11013.7	10969.9	10988.2	11006.4	11090.3	11137.7	11177.8	11232.5	11269.0	11265.3	11207.0
5°	10995.4	10940.7	10948.0	11024.6	11083.0	11115.8	11130.4	11177.8	11232.5	11243.4	11199.7
2.5°	10948.0	10922.5	10977.2	10984.5	11028.3	11053.8	11068.4	11112.1	11181.4	11207.0	11188.7
0°	10922.5	10886.0	10849.6	10878.7	10951.7	11006.4	11028.3	11093.9	11174.1	11199.7	11159.6



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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°	102.1	98.5	94.8	91.2	94.8	94.8	94.8	91.2	94.8	91.2	91.2
85°	317.3	302.7	291.8	277.2	262.6	251.6	237.0	222.5	218.8	215.2	207.9
82.5°	547.0	528.8	510.6	488.7	466.8	441.3	415.7	386.6	379.3	372.0	361.0
80°	769.5	744.0	718.4	692.9	671.0	645.5	616.3	583.5	561.6	543.4	521.5
77.5°	1002.9	966.4	930.0	886.2	860.7	835.1	806.0	773.1	740.3	711.1	678.3
75°	1269.1	1229.0	1192.5	1148.8	1101.4	1054.0	1006.5	962.8	915.4	871.6	827.8
72.5°	1564.5	1506.2	1447.8	1393.1	1334.8	1276.4	1214.4	1156.1	1097.7	1039.4	977.4
70°	1874.5	1801.6	1728.6	1655.7	1579.1	1502.5	1429.6	1356.7	1283.7	1207.1	1137.8
67.5°	2239.2	2155.3	2060.5	1958.4	1845.3	1746.9	1652.1	1564.5	1477.0	1389.5	1301.9
65°	2695.1	2578.4	2450.7	2312.1	2180.9	2049.6	1911.0	1779.7	1677.6	1575.5	1477.0
62.5°	3256.7	3092.6	2913.9	2735.2	2574.7	2403.3	2242.9	2071.4	1911.0	1765.1	1644.8
60°	3927.7	3705.3	3486.4	3256.7	3034.2	2800.8	2596.6	2385.1	2184.5	2005.8	1830.8
57.5°	4668.0	4409.1	4146.5	3865.7	3563.0	3289.5	3012.4	2735.2	2498.1	2261.1	2064.2
55°	5419.3	5145.8	4850.4	4533.1	4201.2	3851.1	3475.5	3165.5	2840.9	2563.8	2308.5
52.5°	6134.1	5849.6	5543.3	5251.6	4854.0	4452.9	4040.8	3632.3	3253.0	2899.3	2589.3
50°	6772.3	6495.2	6199.8	5860.6	5492.3	5065.6	4606.1	4146.5	3698.0	3282.2	2895.6
47.5°	7355.8	7086.0	6790.6	6451.4	6115.9	5641.8	5178.6	4671.7	4172.1	3694.3	3242.1
45°	7902.9	7629.3	7323.0	6998.4	6611.9	6188.8	5711.1	5200.5	4664.4	4128.3	3606.8
42.5°	8398.8	8125.3	7815.3	7479.8	7096.9	6677.5	6214.3	5700.1	5160.4	4576.9	4004.3
40°	8832.8	8566.6	8267.6	7917.4	7560.1	7118.8	6662.9	6174.2	5616.2	5029.1	4398.2
37.5°	9212.1	8964.1	8668.7	8322.3	7943.0	7549.1	7078.7	6590.0	6086.7	5448.5	4803.0
35°	9547.6	9317.9	9015.2	8686.9	8315.0	7899.2	7457.9	6980.2	6436.8	5838.7	5211.4
32.5°	9839.4	9606.0	9328.8	9000.6	8639.5	8249.3	7797.1	7315.7	6801.5	6192.5	5510.5
30°	10087.4	9861.3	9598.7	9288.7	8942.2	8555.7	8114.4	7629.3	7104.2	6498.8	5824.1
27.5°	10302.5	10087.4	9832.1	9544.0	9212.1	8840.1	8395.2	7906.5	7370.4	6786.9	6112.2
25°	10488.5	10280.6	10043.6	9770.1	9441.9	9077.2	8657.8	8147.2	7611.1	7024.0	6356.6
22.5°	10656.3	10455.7	10218.7	9952.4	9653.4	9288.7	8865.6	8358.7	7815.3	7235.5	6579.0
20°	10805.8	10619.8	10386.4	10112.9	9813.8	9445.5	9026.1	8544.7	7997.7	7428.8	6779.6
17.5°	10926.2	10762.0	10528.6	10240.5	9941.5	9584.1	9175.6	8734.4	8154.5	7592.9	6947.4
15°	11010.0	10849.6	10638.0	10346.3	10054.5	9700.8	9292.3	8836.5	8296.7	7724.2	7086.0
12.5°	11068.4	10897.0	10700.0	10430.2	10138.4	9788.3	9390.8	8942.2	8417.1	7840.9	7206.3
10°	11083.0	10926.2	10729.2	10488.5	10204.1	9864.9	9474.7	9029.8	8515.5	7932.0	7304.8
7.5°	11090.3	10940.7	10762.0	10532.3	10251.5	9923.3	9536.7	9099.0	8588.5	8008.6	7377.7
5°	11086.6	10944.4	10783.9	10561.5	10280.6	9956.1	9576.8	9146.5	8639.5	8059.7	7432.4
2.5°	11075.7	10948.0	10798.5	10583.3	10313.5	9992.5	9616.9	9201.2	8694.2	8103.4	7476.2
0°	11104.9	10995.4	10805.8	10576.0	10320.8	9992.5	9613.3	9208.5	8701.5	8099.8	7472.5



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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°	91.2	87.5	87.5	83.9	80.2	76.6	69.3	65.6	58.4	47.4	36.5
85°	196.9	186.0	175.1	167.8	160.5	153.2	142.2	131.3	116.7	94.8	72.9
82.5°	346.5	324.6	302.7	277.2	255.3	233.4	215.2	196.9	175.1	142.2	109.4
80°	496.0	463.2	430.3	393.9	361.0	324.6	291.8	262.6	233.4	189.6	145.9
77.5°	645.5	601.7	554.3	510.6	463.2	415.7	368.3	328.2	284.5	233.4	182.3
75°	784.1	733.0	689.3	627.3	568.9	506.9	444.9	390.2	335.5	273.5	218.8
72.5°	922.7	857.0	795.0	736.7	671.0	594.4	525.2	455.9	386.6	313.6	248.0
70°	1061.3	981.0	904.4	835.1	762.2	685.6	601.7	521.5	437.6	350.1	273.5
67.5°	1203.5	1112.3	1024.8	937.3	853.4	765.9	678.3	587.2	488.7	386.6	302.7
65°	1360.3	1247.2	1141.5	1043.0	944.6	849.7	751.3	652.8	543.4	426.7	328.2
62.5°	1517.1	1393.1	1269.1	1145.1	1035.7	930.0	824.2	714.8	594.4	470.5	353.8
60°	1684.9	1542.6	1400.4	1261.8	1126.9	1010.2	893.5	776.8	649.2	510.6	379.3
57.5°	1870.9	1699.5	1539.0	1382.2	1229.0	1090.4	962.8	838.8	696.6	550.7	408.5
55°	2082.4	1870.9	1681.2	1506.2	1338.4	1170.7	1032.1	904.4	751.3	590.8	441.3
52.5°	2304.8	2060.5	1830.8	1633.8	1455.1	1265.5	1097.7	955.5	806.0	630.9	470.5
50°	2563.8	2253.8	1998.5	1757.8	1557.2	1360.3	1167.0	1013.8	860.7	678.3	499.6
47.5°	2830.0	2487.2	2166.3	1903.7	1666.6	1451.5	1247.2	1064.9	911.7	722.1	528.8
45°	3140.0	2709.7	2355.9	2045.9	1772.4	1546.3	1327.5	1119.6	955.5	765.9	558.0
42.5°	3439.0	2972.2	2552.8	2202.7	1892.7	1637.5	1400.4	1178.0	999.3	809.6	583.5
40°	3792.8	3234.8	2742.5	2352.3	2013.1	1725.0	1473.4	1240.0	1039.4	849.7	609.0
37.5°	4132.0	3501.0	2972.2	2516.4	2129.8	1812.5	1546.3	1298.3	1075.8	889.8	641.9
35°	4467.5	3796.4	3191.0	2669.5	2250.1	1911.0	1619.2	1353.0	1112.3	922.7	671.0
32.5°	4788.4	4073.6	3413.5	2840.9	2381.4	2002.2	1684.9	1404.1	1148.8	951.8	700.2
30°	5087.4	4336.2	3632.3	3016.0	2501.8	2086.0	1746.9	1455.1	1192.5	977.4	729.4
27.5°	5361.0	4591.5	3851.1	3180.1	2614.8	2162.6	1812.5	1502.5	1229.0	1002.9	754.9
25°	5609.0	4821.2	4051.7	3329.6	2717.0	2246.5	1874.5	1549.9	1261.8	1024.8	776.8
22.5°	5842.4	5032.7	4234.1	3479.2	2840.9	2330.4	1932.9	1593.7	1294.7	1046.7	798.7
20°	6046.6	5226.0	4409.1	3628.7	2950.4	2407.0	1983.9	1633.8	1323.8	1061.3	820.6
17.5°	6210.7	5397.4	4565.9	3760.0	3045.2	2472.6	2027.7	1670.3	1349.4	1079.5	835.1
15°	6356.6	5543.3	4697.2	3873.0	3129.1	2527.3	2067.8	1699.5	1371.2	1090.4	853.4
12.5°	6480.6	5667.3	4810.3	3971.5	3202.0	2574.7	2100.6	1721.3	1389.5	1101.4	864.3
10°	6582.7	5765.8	4905.1	4048.1	3260.3	2611.2	2126.2	1743.2	1404.1	1112.3	875.3
7.5°	6659.3	5838.7	4974.4	4113.7	3307.8	2636.7	2148.0	1757.8	1418.6	1119.6	893.5
5°	6717.6	5900.7	5029.1	4157.5	3344.2	2673.2	2173.6	1776.0	1433.2	1126.9	893.5
2.5°	6761.4	5951.8	5072.9	4194.0	3373.4	2665.9	2173.6	1772.4	1433.2	1126.9	889.8
0°	6754.1	5955.4	5069.2	4194.0	3373.4	2658.6	2173.6	1768.8	1433.2	1126.9	889.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.5	18.2	7.3	0.0
85°	54.7	36.5	18.2	0.0
82.5°	80.2	51.1	25.5	0.0
80°	105.8	69.3	32.8	0.0
77.5°	134.9	87.5	43.8	0.0
75°	160.5	102.1	51.1	0.0
72.5°	186.0	120.3	58.4	0.0
70°	207.9	134.9	65.6	0.0
67.5°	229.8	153.2	76.6	0.0
65°	248.0	167.8	83.9	0.0
62.5°	262.6	186.0	91.2	0.0
60°	280.8	200.6	98.5	0.0
57.5°	295.4	211.5	105.8	0.0
55°	310.0	218.8	113.1	0.0
52.5°	324.6	229.8	120.3	0.0
50°	339.2	240.7	127.6	0.0
47.5°	353.8	248.0	131.3	0.0
45°	375.6	258.9	138.6	0.0
42.5°	393.9	266.2	145.9	0.0
40°	412.1	273.5	149.5	0.0
37.5°	430.3	280.8	156.8	0.0
35°	448.6	288.1	160.5	0.0
32.5°	463.2	295.4	164.1	0.0
30°	477.7	302.7	167.8	0.0
27.5°	492.3	306.3	171.4	0.0
25°	503.3	313.6	175.1	0.0
22.5°	514.2	317.3	178.7	0.0
20°	521.5	320.9	182.3	0.0
17.5°	532.4	324.6	186.0	0.0
15°	536.1	328.2	193.3	0.0
12.5°	543.4	331.9	193.3	0.0
10°	547.0	335.5	193.3	0.0
7.5°	554.3	335.5	193.3	0.0
5°	550.7	335.5	193.3	0.0
2.5°	550.7	335.5	193.3	0.0
0°	547.0	335.5	193.3	0.0

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