

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: P628515

Luminaire Tested: **IFLD-M-SA4C-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

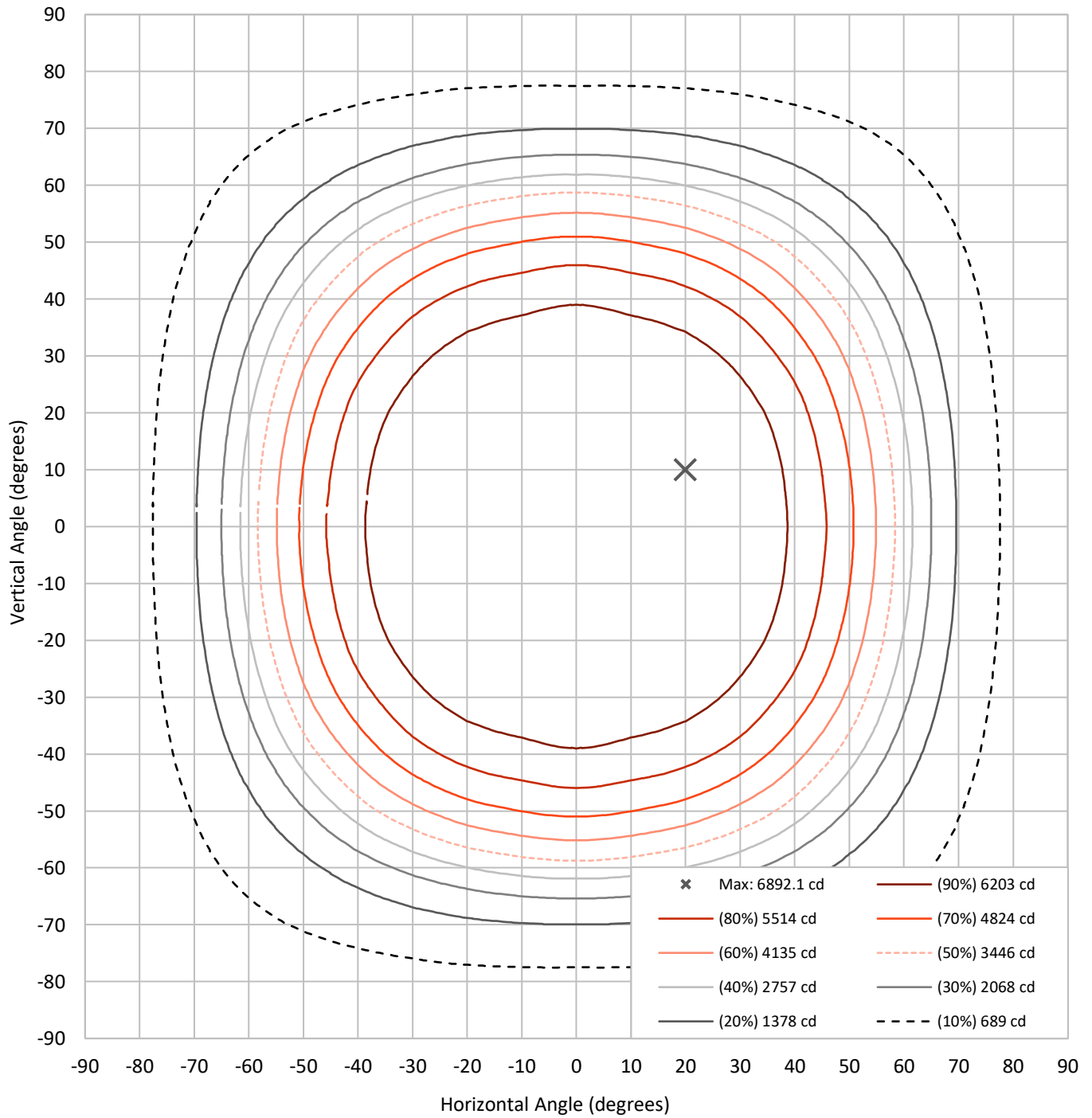
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21144 lumens	Max Intensity:	6892.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	96.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	12974.4 lumens	Field Lumens:	15554.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 218.1
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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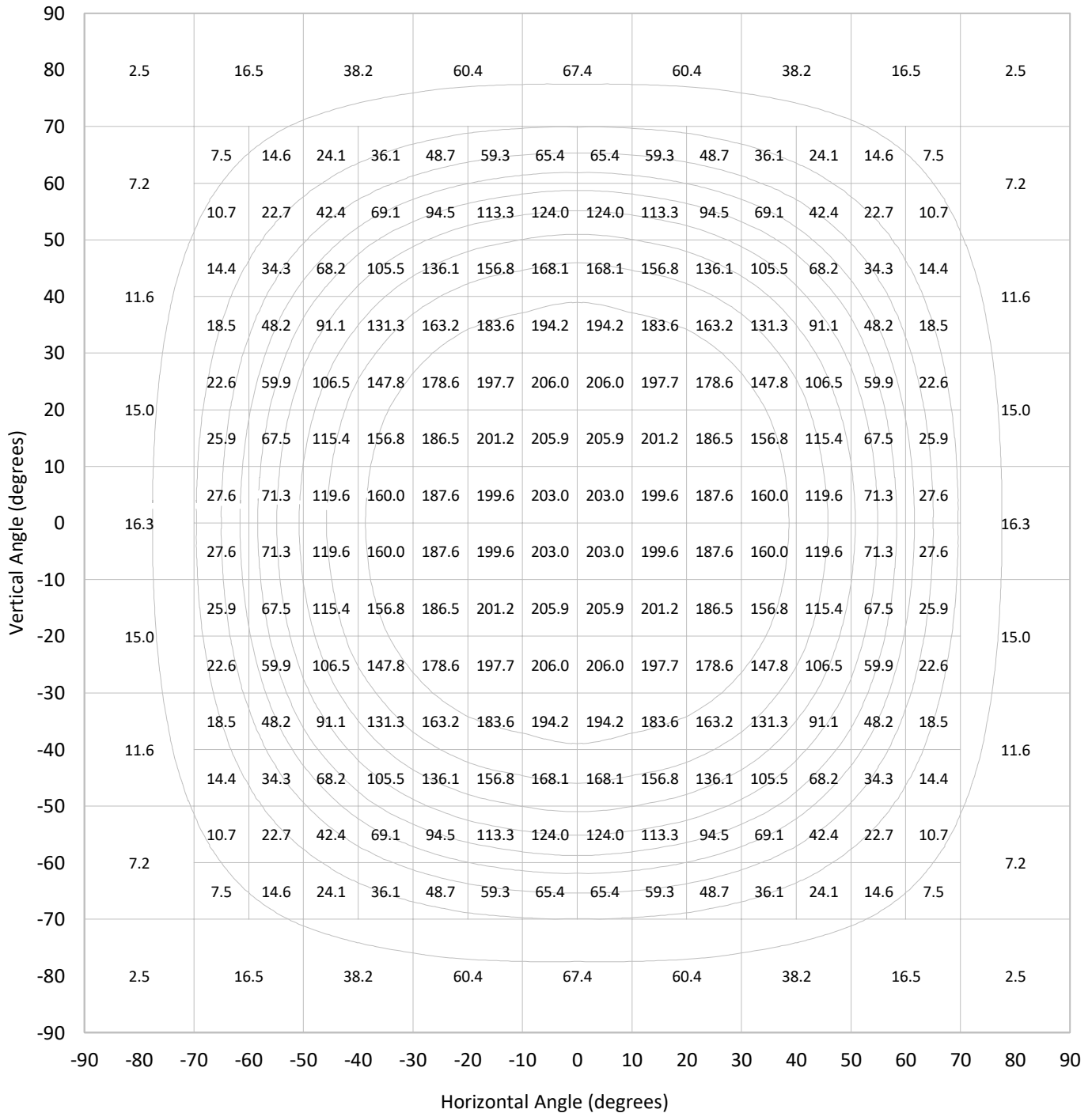
Iso-Candela Plot





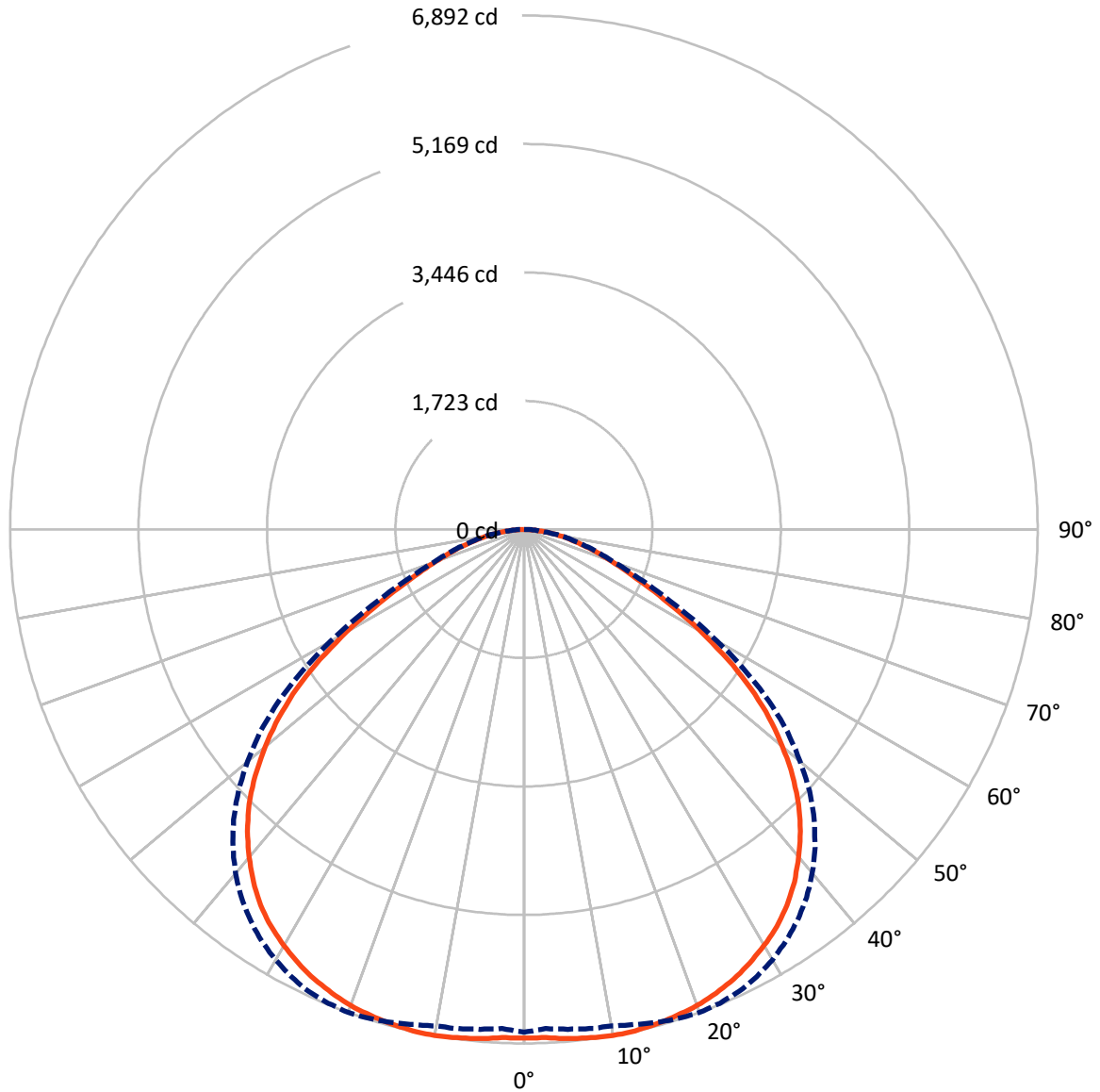
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Lumen Table



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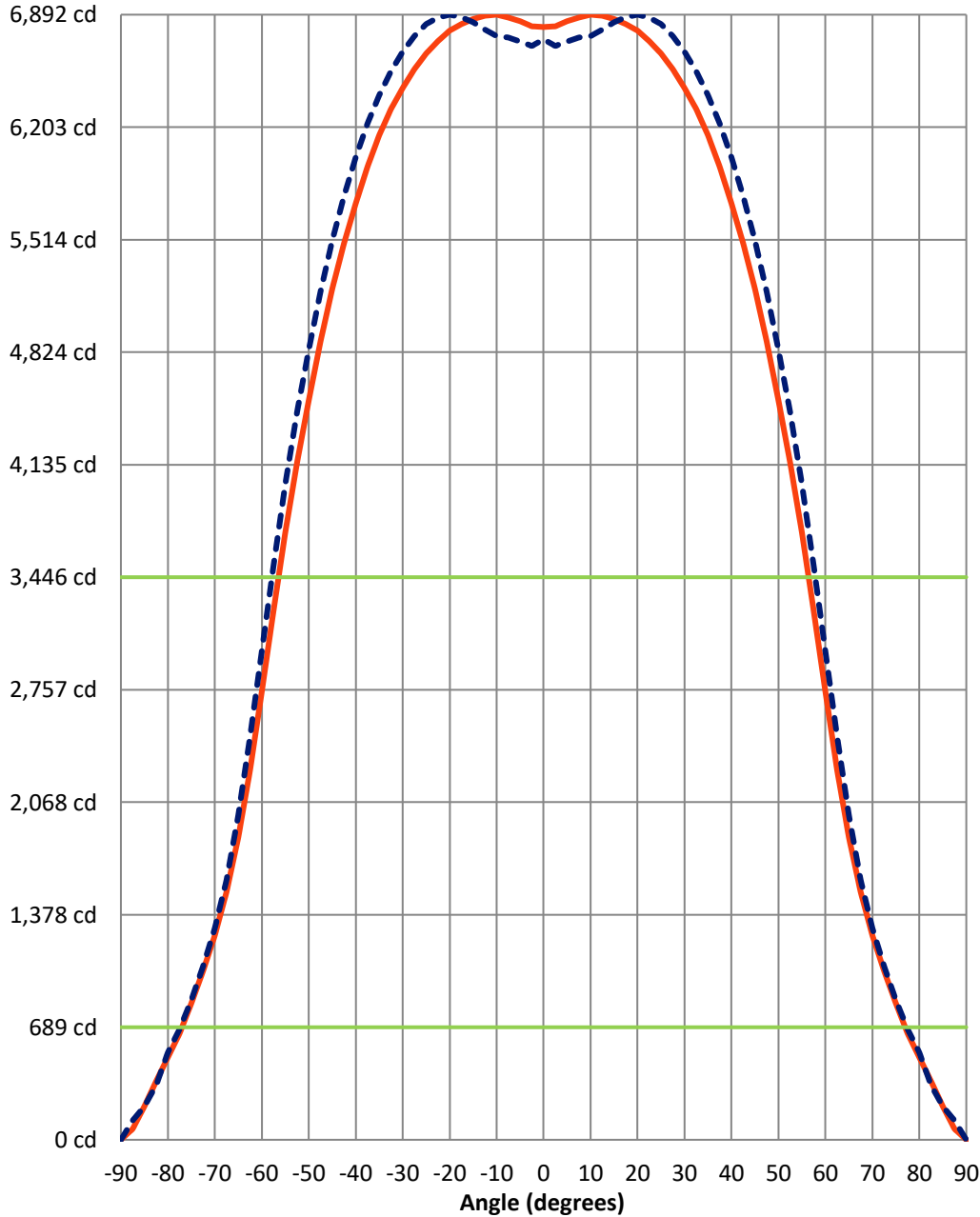
Luminous Intensity Polar Plot



— 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: 12974.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15554.1
 Efficiency: 73.6%

Spill:
 Lumens: 5589.9
 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°	55.6	60.1	62.3	64.5	66.7	69.0	71.2	69.0	66.7	66.7	64.5
85°	149.1	153.5	155.7	171.3	186.9	195.8	206.9	204.7	204.7	202.4	200.2
82.5°	298.1	311.5	322.6	338.2	347.1	360.4	369.3	362.6	358.2	349.3	342.6
80°	529.5	533.9	536.2	538.4	527.3	525.0	520.6	513.9	505.0	493.9	482.8
77.5°	674.1	678.5	683.0	678.5	676.3	674.1	667.4	660.7	651.8	642.9	629.6
75°	892.1	892.1	892.1	885.4	881.0	874.3	863.2	852.1	836.5	818.7	798.7
72.5°	1123.5	1121.2	1119.0	1105.7	1094.6	1081.2	1065.6	1052.3	1034.5	1014.5	987.8
70°	1366.0	1370.4	1372.6	1354.8	1341.5	1323.7	1303.7	1279.2	1252.5	1223.6	1185.8
67.5°	1699.7	1695.2	1690.8	1666.3	1648.5	1624.0	1595.1	1559.5	1519.5	1475.0	1421.6
65°	2113.5	2120.1	2106.8	2082.3	2048.9	2008.9	1964.4	1913.2	1853.2	1786.4	1710.8
62.5°	2614.0	2625.1	2609.6	2578.4	2536.2	2482.8	2420.5	2347.1	2264.7	2171.3	2077.9
60°	3183.5	3181.3	3152.4	3110.1	3054.5	2987.8	2918.8	2838.7	2745.3	2636.3	2522.8
57.5°	3706.3	3701.9	3666.3	3624.0	3568.4	3497.2	3423.8	3339.3	3241.4	3125.7	2994.4
55°	4175.8	4171.3	4135.7	4091.2	4033.4	3962.2	3895.4	3815.4	3719.7	3597.3	3457.2
52.5°	4591.8	4594.0	4562.9	4513.9	4451.6	4382.7	4318.1	4238.0	4146.8	4024.5	3888.8
50°	4974.4	4972.2	4938.8	4894.3	4836.5	4769.7	4705.2	4625.1	4529.5	4411.6	4280.3
47.5°	5330.4	5325.9	5288.1	5239.2	5179.1	5121.2	5061.2	4990.0	4889.9	4772.0	4640.7
45°	5628.5	5619.6	5581.8	5535.0	5477.2	5426.0	5372.6	5319.2	5212.5	5103.5	4978.9
42.5°	5884.3	5882.1	5844.3	5797.6	5739.7	5695.2	5646.3	5579.5	5490.5	5390.4	5268.1
40°	6129.0	6111.2	6073.4	6028.9	5975.5	5937.7	5888.8	5822.0	5735.3	5637.4	5519.5
37.5°	6311.5	6313.7	6273.6	6224.7	6178.0	6142.4	6097.9	6035.6	5960.0	5864.3	5746.4
35°	6485.0	6473.9	6440.5	6398.2	6356.0	6315.9	6269.2	6215.8	6153.5	6064.5	5953.3
32.5°	6598.4	6614.0	6574.0	6529.5	6505.0	6473.9	6424.9	6369.3	6313.7	6224.7	6124.6
30°	6723.0	6709.7	6678.5	6640.7	6622.9	6602.9	6560.6	6507.2	6442.7	6362.6	6269.2
27.5°	6809.8	6803.1	6765.3	6729.7	6720.8	6703.0	6669.6	6622.9	6558.4	6480.5	6393.8
25°	6847.6	6852.1	6816.5	6796.4	6796.4	6785.3	6758.6	6718.6	6654.1	6582.9	6498.3
22.5°	6865.4	6861.0	6836.5	6832.0	6843.2	6834.3	6823.1	6787.5	6729.7	6671.9	6600.7
20°	6876.5	6845.4	6823.1	6840.9	6854.3	6852.1	6843.2	6820.9	6794.2	6745.3	6683.0
17.5°	6852.1	6832.0	6805.3	6832.0	6861.0	6863.2	6854.3	6840.9	6834.3	6803.1	6747.5
15°	6792.0	6776.4	6780.9	6807.6	6840.9	6852.1	6858.7	6874.3	6865.4	6840.9	6792.0
12.5°	6752.0	6731.9	6752.0	6778.6	6796.4	6803.1	6856.5	6885.4	6885.4	6863.2	6832.0
10°	6740.8	6700.8	6727.5	6752.0	6760.9	6800.9	6845.4	6876.5	6892.1	6874.3	6834.3
7.5°	6718.6	6691.9	6703.0	6714.1	6765.3	6794.2	6818.7	6852.1	6874.3	6872.1	6836.5
5°	6707.5	6674.1	6678.5	6725.3	6760.9	6780.9	6789.8	6818.7	6852.1	6858.7	6832.0
2.5°	6678.5	6663.0	6696.3	6700.8	6727.5	6743.1	6752.0	6778.6	6820.9	6836.5	6825.4
0°	6663.0	6640.7	6618.5	6636.3	6680.8	6714.1	6727.5	6767.5	6816.5	6832.0	6807.6



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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°	62.3	60.1	57.8	55.6	57.8	57.8	57.8	55.6	57.8	55.6	55.6
85°	193.5	184.6	178.0	169.1	160.2	153.5	144.6	135.7	133.5	131.3	126.8
82.5°	333.7	322.6	311.5	298.1	284.8	269.2	253.6	235.8	231.4	226.9	220.2
80°	469.4	453.8	438.3	422.7	409.3	393.8	376.0	356.0	342.6	331.5	318.1
77.5°	611.8	589.5	567.3	540.6	525.0	509.5	491.7	471.6	451.6	433.8	413.8
75°	774.2	749.7	727.5	700.8	671.9	642.9	614.0	587.3	558.4	531.7	505.0
72.5°	954.4	918.8	883.2	849.8	814.2	778.6	740.8	705.2	669.6	634.0	596.2
70°	1143.5	1099.0	1054.5	1010.0	963.3	916.6	872.1	827.6	783.1	736.4	694.1
67.5°	1366.0	1314.8	1257.0	1194.7	1125.7	1065.6	1007.8	954.4	901.0	847.6	794.2
65°	1644.1	1572.9	1495.0	1410.5	1330.4	1250.3	1165.7	1085.7	1023.4	961.1	901.0
62.5°	1986.7	1886.5	1777.5	1668.5	1570.6	1466.1	1368.2	1263.6	1165.7	1076.8	1003.3
60°	2396.0	2260.3	2126.8	1986.7	1850.9	1708.6	1584.0	1455.0	1332.6	1223.6	1116.8
57.5°	2847.6	2689.7	2529.5	2358.2	2173.5	2006.7	1837.6	1668.5	1523.9	1379.3	1259.2
55°	3305.9	3139.0	2958.8	2765.3	2562.8	2349.3	2120.1	1931.0	1733.0	1564.0	1408.2
52.5°	3741.9	3568.4	3381.5	3203.6	2961.1	2716.4	2465.0	2215.8	1984.4	1768.6	1579.5
50°	4131.3	3962.2	3782.0	3575.1	3350.4	3090.1	2809.8	2529.5	2255.8	2002.2	1766.4
47.5°	4487.2	4322.6	4142.4	3935.5	3730.8	3441.6	3159.1	2849.8	2545.1	2253.6	1977.8
45°	4820.9	4654.1	4467.2	4269.2	4033.4	3775.3	3483.9	3172.4	2845.4	2518.4	2200.2
42.5°	5123.5	4956.6	4767.5	4562.9	4329.3	4073.4	3790.9	3477.2	3147.9	2792.0	2442.7
40°	5388.2	5225.8	5043.4	4829.8	4611.8	4342.6	4064.5	3766.4	3426.0	3067.9	2683.0
37.5°	5619.6	5468.3	5288.1	5076.8	4845.4	4605.1	4318.1	4020.0	3713.0	3323.7	2929.9
35°	5824.3	5684.1	5499.4	5299.2	5072.3	4818.7	4549.5	4258.1	3926.6	3561.7	3179.1
32.5°	6002.2	5859.8	5690.8	5490.5	5270.3	5032.3	4756.4	4462.7	4149.1	3777.5	3361.5
30°	6153.5	6015.6	5855.4	5666.3	5455.0	5219.1	4949.9	4654.1	4333.7	3964.4	3552.8
27.5°	6284.8	6153.5	5997.8	5822.0	5619.6	5392.7	5121.2	4823.1	4496.1	4140.2	3728.6
25°	6398.2	6271.4	6126.8	5960.0	5759.7	5537.3	5281.4	4970.0	4642.9	4284.8	3877.6
22.5°	6500.6	6378.2	6233.6	6071.2	5888.8	5666.3	5408.2	5099.0	4767.5	4413.8	4013.4
20°	6591.8	6478.3	6335.9	6169.1	5986.7	5762.0	5506.1	5212.5	4878.8	4531.7	4135.7
17.5°	6665.2	6565.1	6422.7	6246.9	6064.5	5846.5	5597.3	5328.1	4974.4	4631.8	4238.0
15°	6716.4	6618.5	6489.4	6311.5	6133.5	5917.7	5668.5	5390.4	5061.2	4711.9	4322.6
12.5°	6752.0	6647.4	6527.3	6362.6	6184.7	5971.1	5728.6	5455.0	5134.6	4783.1	4396.0
10°	6760.9	6665.2	6545.1	6398.2	6224.7	6017.8	5779.8	5508.3	5194.7	4838.7	4456.1
7.5°	6765.3	6674.1	6565.1	6424.9	6253.6	6053.4	5817.6	5550.6	5239.2	4885.4	4500.6
5°	6763.1	6676.3	6578.4	6442.7	6271.4	6073.4	5842.1	5579.5	5270.3	4916.6	4533.9
2.5°	6756.4	6678.5	6587.3	6456.1	6291.4	6095.7	5866.5	5612.9	5303.7	4943.3	4560.6
0°	6774.2	6707.5	6591.8	6451.6	6295.9	6095.7	5864.3	5617.4	5308.1	4941.0	4558.4



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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°	55.6	53.4	53.4	51.2	48.9	46.7	42.3	40.0	35.6	28.9	22.2
85°	120.1	113.5	106.8	102.3	97.9	93.4	86.8	80.1	71.2	57.8	44.5
82.5°	211.3	198.0	184.6	169.1	155.7	142.4	131.3	120.1	106.8	86.8	66.7
80°	302.6	282.5	262.5	240.3	220.2	198.0	178.0	160.2	142.4	115.7	89.0
77.5°	393.8	367.1	338.2	311.5	282.5	253.6	224.7	200.2	173.5	142.4	111.2
75°	478.3	447.2	420.5	382.6	347.1	309.2	271.4	238.0	204.7	166.9	133.5
72.5°	562.8	522.8	485.0	449.4	409.3	362.6	320.4	278.1	235.8	191.3	151.3
70°	647.4	598.4	551.7	509.5	465.0	418.2	367.1	318.1	267.0	213.6	166.9
67.5°	734.1	678.5	625.1	571.7	520.6	467.2	413.8	358.2	298.1	235.8	184.6
65°	829.8	760.8	696.3	636.3	576.2	518.4	458.3	398.2	331.5	260.3	200.2
62.5°	925.5	849.8	774.2	698.6	631.8	567.3	502.8	436.0	362.6	287.0	215.8
60°	1027.8	941.0	854.3	769.7	687.4	616.2	545.1	473.9	396.0	311.5	231.4
57.5°	1141.3	1036.7	938.8	843.2	749.7	665.2	587.3	511.7	424.9	335.9	249.2
55°	1270.3	1141.3	1025.6	918.8	816.5	714.1	629.6	551.7	458.3	360.4	269.2
52.5°	1406.0	1257.0	1116.8	996.7	887.7	772.0	669.6	582.9	491.7	384.9	287.0
50°	1564.0	1374.9	1219.1	1072.3	949.9	829.8	711.9	618.5	525.0	413.8	304.8
47.5°	1726.4	1517.2	1321.5	1161.3	1016.7	885.4	760.8	649.6	556.2	440.5	322.6
45°	1915.5	1652.9	1437.2	1248.1	1081.2	943.3	809.8	683.0	582.9	467.2	340.4
42.5°	2097.9	1813.1	1557.3	1343.7	1154.6	998.9	854.3	718.6	609.6	493.9	356.0
40°	2313.7	1973.3	1673.0	1434.9	1228.0	1052.3	898.8	756.4	634.0	518.4	371.5
37.5°	2520.6	2135.7	1813.1	1535.0	1299.2	1105.7	943.3	792.0	656.3	542.8	391.5
35°	2725.3	2315.9	1946.6	1628.5	1372.6	1165.7	987.8	825.4	678.5	562.8	409.3
32.5°	2921.0	2485.0	2082.3	1733.0	1452.7	1221.4	1027.8	856.5	700.8	580.6	427.1
30°	3103.5	2645.2	2215.8	1839.8	1526.1	1272.5	1065.6	887.7	727.5	596.2	444.9
27.5°	3270.3	2800.9	2349.3	1939.9	1595.1	1319.2	1105.7	916.6	749.7	611.8	460.5
25°	3421.6	2941.0	2471.6	2031.1	1657.4	1370.4	1143.5	945.5	769.7	625.1	473.9
22.5°	3564.0	3070.1	2582.9	2122.4	1733.0	1421.6	1179.1	972.2	789.8	638.5	487.2
20°	3688.5	3188.0	2689.7	2213.6	1799.8	1468.3	1210.2	996.7	807.6	647.4	500.6
17.5°	3788.7	3292.5	2785.3	2293.7	1857.6	1508.3	1236.9	1018.9	823.1	658.5	509.5
15°	3877.6	3381.5	2865.4	2362.6	1908.8	1541.7	1261.4	1036.7	836.5	665.2	520.6
12.5°	3953.3	3457.2	2934.4	2422.7	1953.3	1570.6	1281.4	1050.1	847.6	671.9	527.3
10°	4015.6	3517.2	2992.2	2469.4	1988.9	1592.9	1297.0	1063.4	856.5	678.5	533.9
7.5°	4062.3	3561.7	3034.5	2509.5	2017.8	1608.5	1310.3	1072.3	865.4	683.0	545.1
5°	4097.9	3599.6	3067.9	2536.2	2040.0	1630.7	1325.9	1083.4	874.3	687.4	545.1
2.5°	4124.6	3630.7	3094.6	2558.4	2057.8	1626.3	1325.9	1081.2	874.3	687.4	542.8
0°	4120.1	3632.9	3092.3	2558.4	2057.8	1621.8	1325.9	1079.0	874.3	687.4	542.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.6	11.1	4.4	0.0
85°	33.4	22.2	11.1	0.0
82.5°	48.9	31.1	15.6	0.0
80°	64.5	42.3	20.0	0.0
77.5°	82.3	53.4	26.7	0.0
75°	97.9	62.3	31.1	0.0
72.5°	113.5	73.4	35.6	0.0
70°	126.8	82.3	40.0	0.0
67.5°	140.2	93.4	46.7	0.0
65°	151.3	102.3	51.2	0.0
62.5°	160.2	113.5	55.6	0.0
60°	171.3	122.4	60.1	0.0
57.5°	180.2	129.0	64.5	0.0
55°	189.1	133.5	69.0	0.0
52.5°	198.0	140.2	73.4	0.0
50°	206.9	146.8	77.9	0.0
47.5°	215.8	151.3	80.1	0.0
45°	229.1	158.0	84.5	0.0
42.5°	240.3	162.4	89.0	0.0
40°	251.4	166.9	91.2	0.0
37.5°	262.5	171.3	95.7	0.0
35°	273.6	175.8	97.9	0.0
32.5°	282.5	180.2	100.1	0.0
30°	291.4	184.6	102.3	0.0
27.5°	300.3	186.9	104.6	0.0
25°	307.0	191.3	106.8	0.0
22.5°	313.7	193.5	109.0	0.0
20°	318.1	195.8	111.2	0.0
17.5°	324.8	198.0	113.5	0.0
15°	327.0	200.2	117.9	0.0
12.5°	331.5	202.4	117.9	0.0
10°	333.7	204.7	117.9	0.0
7.5°	338.2	204.7	117.9	0.0
5°	335.9	204.7	117.9	0.0
2.5°	335.9	204.7	117.9	0.0
0°	333.7	204.7	117.9	0.0

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