

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: P628268

Luminaire Tested: **IFLD-S-SA2C-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628268
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

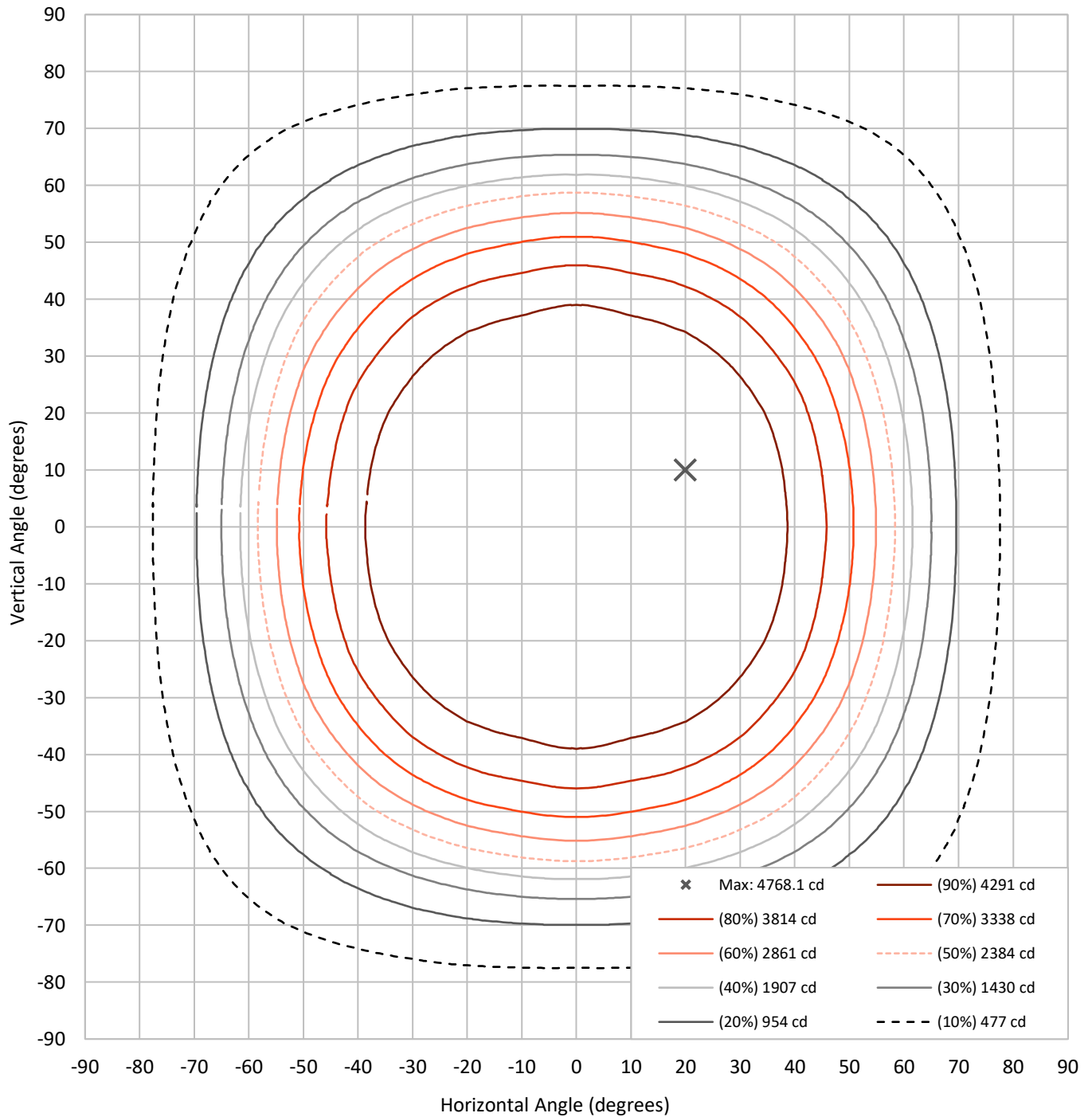
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14628 lumens	Max Intensity:	4768.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	135.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8976.1 lumens	Field Lumens:	10760.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 108.2
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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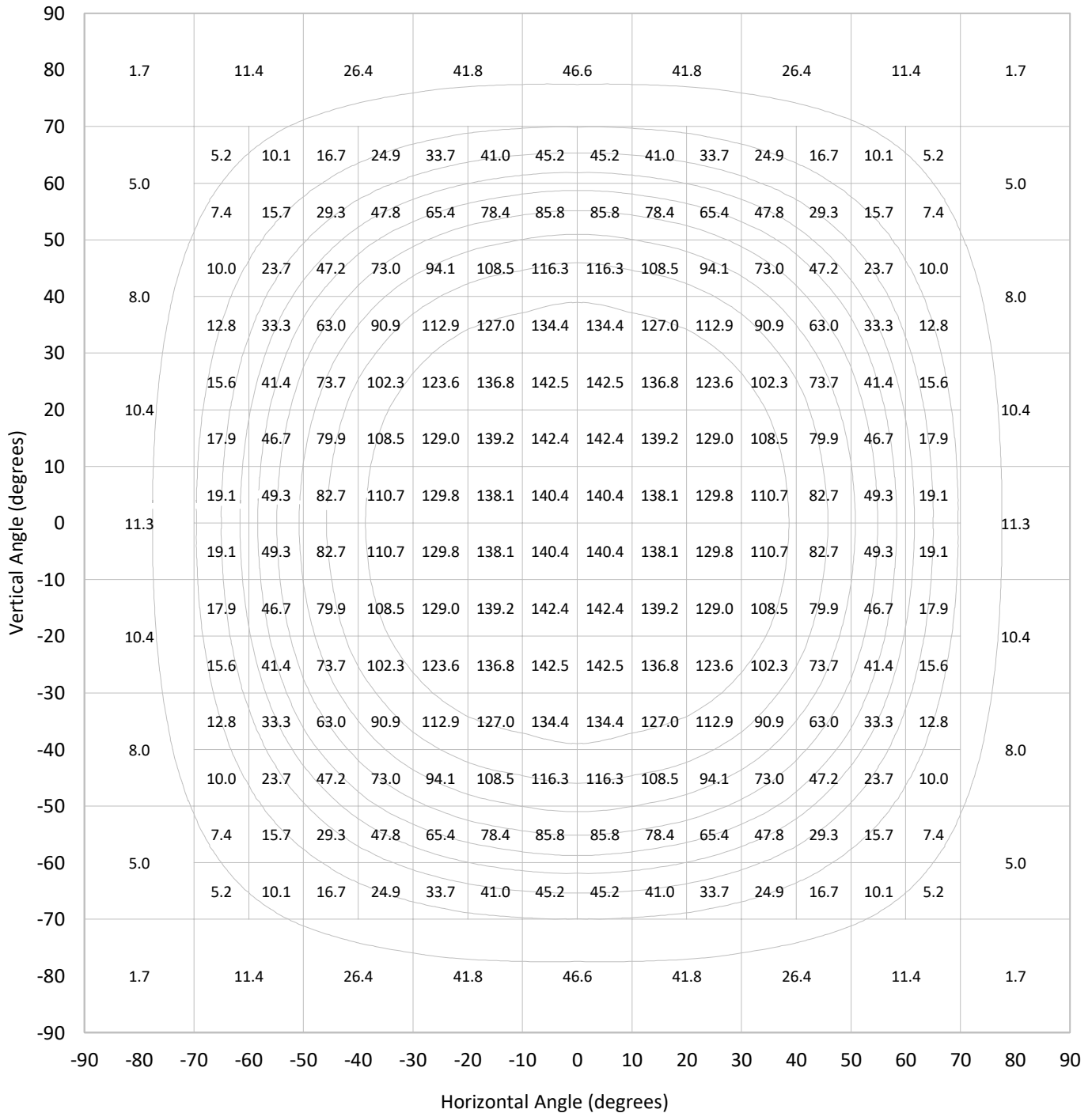
Iso-Candela Plot





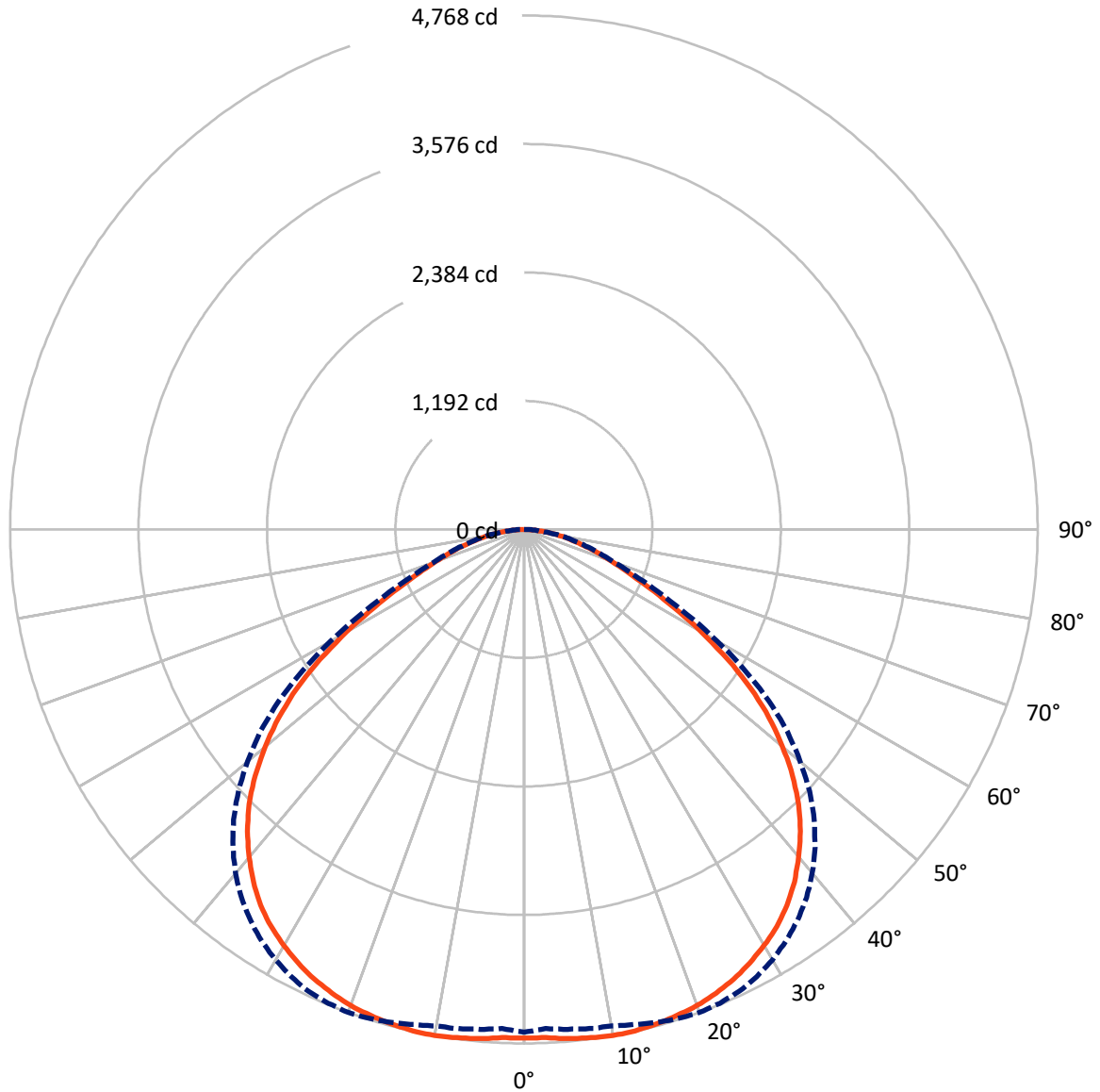
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Lumen Table



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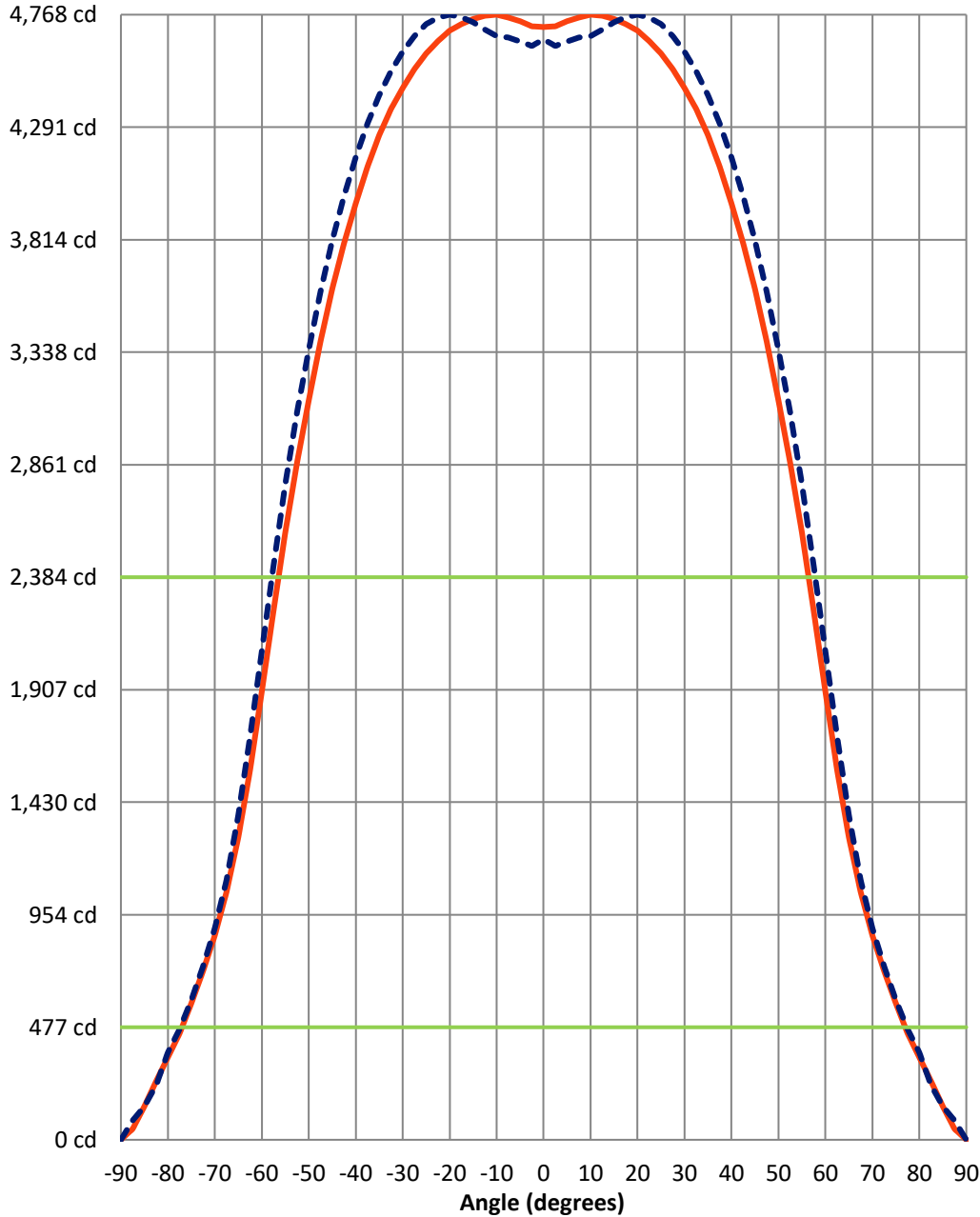
Luminous Intensity Polar Plot



— 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: 8976.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10760.8
 Efficiency: 73.6%

Spill:
 Lumens: 3867.3
 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°	38.5	41.6	43.1	44.6	46.2	47.7	49.3	47.7	46.2	46.2	44.6
85°	103.1	106.2	107.7	118.5	129.3	135.4	143.1	141.6	141.6	140.1	138.5
82.5°	206.2	215.5	223.2	233.9	240.1	249.3	255.5	250.9	247.8	241.6	237.0
80°	366.3	369.4	370.9	372.5	364.8	363.2	360.2	355.5	349.4	341.7	334.0
77.5°	466.3	469.4	472.5	469.4	467.9	466.3	461.7	457.1	451.0	444.8	435.6
75°	617.2	617.2	617.2	612.6	609.5	604.9	597.2	589.5	578.7	566.4	552.5
72.5°	777.2	775.7	774.2	764.9	757.2	748.0	737.2	728.0	715.7	701.8	683.4
70°	945.0	948.1	949.6	937.3	928.1	915.8	901.9	885.0	866.5	846.5	820.3
67.5°	1175.9	1172.8	1169.7	1152.8	1140.5	1123.5	1103.5	1078.9	1051.2	1020.4	983.5
65°	1462.1	1466.8	1457.5	1440.6	1417.5	1389.8	1359.0	1323.6	1282.1	1235.9	1183.6
62.5°	1808.4	1816.1	1805.4	1783.8	1754.6	1717.6	1674.5	1623.8	1566.8	1502.2	1437.5
60°	2202.5	2200.9	2180.9	2151.7	2113.2	2067.0	2019.3	1963.9	1899.3	1823.8	1745.3
57.5°	2564.1	2561.1	2536.4	2507.2	2468.7	2419.5	2368.7	2310.2	2242.5	2162.4	2071.6
55°	2888.9	2885.8	2861.2	2830.4	2790.4	2741.1	2695.0	2639.6	2573.4	2488.7	2391.8
52.5°	3176.7	3178.3	3156.7	3122.8	3079.7	3032.0	2987.4	2932.0	2868.9	2784.2	2690.4
50°	3441.4	3439.9	3416.8	3386.0	3346.0	3299.8	3255.2	3199.8	3133.6	3052.0	2961.2
47.5°	3687.7	3684.6	3658.5	3624.6	3583.0	3543.0	3501.5	3452.2	3383.0	3301.4	3210.6
45°	3893.9	3887.8	3861.6	3829.3	3789.3	3753.9	3716.9	3680.0	3606.1	3530.7	3444.5
42.5°	4070.9	4069.4	4043.2	4010.9	3970.9	3940.1	3906.2	3860.1	3798.5	3729.3	3644.6
40°	4240.2	4227.9	4201.8	4171.0	4134.0	4107.9	4074.0	4027.8	3967.8	3900.1	3818.5
37.5°	4366.4	4368.0	4340.3	4306.4	4274.1	4249.5	4218.7	4175.6	4123.3	4057.1	3975.5
35°	4486.5	4478.8	4455.7	4426.5	4397.2	4369.5	4337.2	4300.3	4257.2	4195.6	4118.6
32.5°	4565.0	4575.8	4548.1	4517.3	4500.3	4478.8	4444.9	4406.5	4368.0	4306.4	4237.2
30°	4651.2	4641.9	4620.4	4594.2	4581.9	4568.1	4538.8	4501.9	4457.2	4401.8	4337.2
27.5°	4711.2	4706.6	4680.4	4655.8	4649.6	4637.3	4614.2	4581.9	4537.3	4483.4	4423.4
25°	4737.4	4740.4	4715.8	4702.0	4702.0	4694.3	4675.8	4648.1	4603.5	4554.2	4495.7
22.5°	4749.7	4746.6	4729.7	4726.6	4734.3	4728.1	4720.4	4695.8	4655.8	4615.8	4566.5
20°	4757.4	4735.8	4720.4	4732.7	4742.0	4740.4	4734.3	4718.9	4700.4	4666.6	4623.5
17.5°	4740.4	4726.6	4708.1	4726.6	4746.6	4748.1	4742.0	4732.7	4728.1	4706.6	4668.1
15°	4698.9	4688.1	4691.2	4709.7	4732.7	4740.4	4745.1	4755.8	4749.7	4732.7	4698.9
12.5°	4671.2	4657.3	4671.2	4689.7	4702.0	4706.6	4743.5	4763.5	4763.5	4748.1	4726.6
10°	4663.5	4635.8	4654.3	4671.2	4677.3	4705.0	4735.8	4757.4	4768.1	4755.8	4728.1
7.5°	4648.1	4629.6	4637.3	4645.0	4680.4	4700.4	4717.4	4740.4	4755.8	4754.3	4729.7
5°	4640.4	4617.3	4620.4	4652.7	4677.3	4691.2	4697.3	4717.4	4740.4	4745.1	4726.6
2.5°	4620.4	4609.6	4632.7	4635.8	4654.3	4665.0	4671.2	4689.7	4718.9	4729.7	4722.0
0°	4609.6	4594.2	4578.8	4591.1	4621.9	4645.0	4654.3	4682.0	4715.8	4726.6	4709.7



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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°	43.1	41.6	40.0	38.5	40.0	40.0	40.0	38.5	40.0	38.5	38.5
85°	133.9	127.7	123.1	117.0	110.8	106.2	100.0	93.9	92.3	90.8	87.7
82.5°	230.9	223.2	215.5	206.2	197.0	186.2	175.5	163.1	160.1	157.0	152.4
80°	324.8	314.0	303.2	292.4	283.2	272.4	260.1	246.3	237.0	229.3	220.1
77.5°	423.3	407.9	392.5	374.0	363.2	352.5	340.1	326.3	312.4	300.1	286.3
75°	535.6	518.7	503.3	484.8	464.8	444.8	424.8	406.3	386.3	367.8	349.4
72.5°	660.3	635.7	611.0	587.9	563.3	538.7	512.5	487.9	463.3	438.6	412.5
70°	791.1	760.3	729.5	698.8	666.4	634.1	603.3	572.5	541.8	509.4	480.2
67.5°	945.0	909.6	869.6	826.5	778.8	737.2	697.2	660.3	623.3	586.4	549.5
65°	1137.4	1088.1	1034.3	975.8	920.4	865.0	806.5	751.1	708.0	664.9	623.3
62.5°	1374.4	1305.2	1229.7	1154.3	1086.6	1014.3	946.5	874.2	806.5	744.9	694.1
60°	1657.6	1563.7	1471.4	1374.4	1280.5	1182.0	1095.8	1006.6	921.9	846.5	772.6
57.5°	1970.1	1860.8	1750.0	1631.5	1503.7	1388.3	1271.3	1154.3	1054.3	954.2	871.1
55°	2287.1	2171.7	2047.0	1913.1	1773.0	1625.3	1466.8	1335.9	1199.0	1082.0	974.3
52.5°	2588.8	2468.7	2339.4	2216.3	2048.5	1879.2	1705.3	1532.9	1372.9	1223.6	1092.8
50°	2858.1	2741.1	2616.5	2473.3	2317.9	2137.8	1943.9	1750.0	1560.7	1385.2	1222.0
47.5°	3104.4	2990.5	2865.8	2722.7	2581.1	2381.0	2185.5	1971.6	1760.7	1559.1	1368.3
45°	3335.2	3219.8	3090.5	2953.5	2790.4	2611.9	2410.2	2194.8	1968.5	1742.3	1522.2
42.5°	3544.6	3429.1	3298.3	3156.7	2995.1	2818.1	2622.6	2405.6	2177.8	1931.6	1689.9
40°	3727.7	3615.4	3489.1	3341.4	3190.6	3004.3	2811.9	2605.7	2370.2	2122.4	1856.2
37.5°	3887.8	3783.1	3658.5	3512.2	3352.2	3185.9	2987.4	2781.2	2568.8	2299.4	2027.0
35°	4029.4	3932.4	3804.7	3666.1	3509.2	3333.7	3147.5	2945.8	2716.5	2464.1	2199.4
32.5°	4152.5	4054.0	3937.0	3798.5	3646.1	3481.5	3290.6	3087.4	2870.4	2613.4	2325.6
30°	4257.2	4161.7	4050.9	3920.1	3773.9	3610.7	3424.5	3219.8	2998.2	2742.7	2457.9
27.5°	4348.0	4257.2	4149.4	4027.8	3887.8	3730.8	3543.0	3336.8	3110.5	2864.3	2579.5
25°	4426.5	4338.7	4238.7	4123.3	3984.7	3830.8	3653.8	3438.4	3212.1	2964.3	2682.7
22.5°	4497.3	4412.6	4312.6	4200.2	4074.0	3920.1	3741.6	3527.6	3298.3	3053.6	2776.5
20°	4560.4	4481.9	4383.4	4267.9	4141.7	3986.3	3809.3	3606.1	3375.3	3135.2	2861.2
17.5°	4611.2	4541.9	4443.4	4321.8	4195.6	4044.8	3872.4	3686.2	3441.4	3204.4	2932.0
15°	4646.6	4578.8	4489.6	4366.4	4243.3	4094.0	3921.6	3729.3	3501.5	3259.8	2990.5
12.5°	4671.2	4598.8	4515.7	4401.8	4278.7	4131.0	3963.2	3773.9	3552.3	3309.1	3041.3
10°	4677.3	4611.2	4528.0	4426.5	4306.4	4163.3	3998.6	3810.8	3593.8	3347.6	3082.8
7.5°	4680.4	4617.3	4541.9	4444.9	4326.4	4187.9	4024.8	3840.1	3624.6	3379.9	3113.6
5°	4678.9	4618.9	4551.1	4457.2	4338.7	4201.8	4041.7	3860.1	3646.1	3401.4	3136.7
2.5°	4674.3	4620.4	4557.3	4466.5	4352.6	4217.1	4058.6	3883.2	3669.2	3419.9	3155.2
0°	4686.6	4640.4	4560.4	4463.4	4355.7	4217.1	4057.1	3886.2	3672.3	3418.4	3153.6



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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°	38.5	36.9	36.9	35.4	33.9	32.3	29.2	27.7	24.6	20.0	15.4
85°	83.1	78.5	73.9	70.8	67.7	64.6	60.0	55.4	49.3	40.0	30.8
82.5°	146.2	137.0	127.7	117.0	107.7	98.5	90.8	83.1	73.9	60.0	46.2
80°	209.3	195.5	181.6	166.2	152.4	137.0	123.1	110.8	98.5	80.0	61.6
77.5°	272.4	254.0	233.9	215.5	195.5	175.5	155.4	138.5	120.1	98.5	77.0
75°	330.9	309.4	290.9	264.7	240.1	213.9	187.8	164.7	141.6	115.4	92.3
72.5°	389.4	361.7	335.5	310.9	283.2	250.9	221.6	192.4	163.1	132.4	104.7
70°	447.9	414.0	381.7	352.5	321.7	289.4	254.0	220.1	184.7	147.8	115.4
67.5°	507.9	469.4	432.5	395.5	360.2	323.2	286.3	247.8	206.2	163.1	127.7
65°	574.1	526.4	481.7	440.2	398.6	358.6	317.1	275.5	229.3	180.1	138.5
62.5°	640.3	587.9	535.6	483.3	437.1	392.5	347.8	301.7	250.9	198.5	149.3
60°	711.1	651.0	591.0	532.5	475.6	426.3	377.1	327.8	274.0	215.5	160.1
57.5°	789.6	717.2	649.5	583.3	518.7	460.2	406.3	354.0	294.0	232.4	172.4
55°	878.8	789.6	709.5	635.7	564.9	494.1	435.6	381.7	317.1	249.3	186.2
52.5°	972.7	869.6	772.6	689.5	614.1	534.1	463.3	403.2	340.1	266.3	198.5
50°	1082.0	951.2	843.4	741.8	657.2	574.1	492.5	427.9	363.2	286.3	210.9
47.5°	1194.3	1049.7	914.2	803.4	703.4	612.6	526.4	449.4	384.8	304.7	223.2
45°	1325.2	1143.6	994.3	863.4	748.0	652.6	560.2	472.5	403.2	323.2	235.5
42.5°	1451.4	1254.4	1077.4	929.6	798.8	691.1	591.0	497.1	421.7	341.7	246.3
40°	1600.7	1365.2	1157.4	992.7	849.6	728.0	621.8	523.3	438.6	358.6	257.0
37.5°	1743.8	1477.5	1254.4	1062.0	898.8	764.9	652.6	547.9	454.0	375.5	270.9
35°	1885.4	1602.2	1346.7	1126.6	949.6	806.5	683.4	571.0	469.4	389.4	283.2
32.5°	2020.8	1719.2	1440.6	1199.0	1005.0	845.0	711.1	592.6	484.8	401.7	295.5
30°	2147.1	1830.0	1532.9	1272.8	1055.8	880.4	737.2	614.1	503.3	412.5	307.8
27.5°	2262.5	1937.7	1625.3	1342.1	1103.5	912.7	764.9	634.1	518.7	423.3	318.6
25°	2367.1	2034.7	1709.9	1405.2	1146.6	948.1	791.1	654.1	532.5	432.5	327.8
22.5°	2465.6	2124.0	1786.9	1468.3	1199.0	983.5	815.7	672.6	546.4	441.7	337.1
20°	2551.8	2205.5	1860.8	1531.4	1245.1	1015.8	837.3	689.5	558.7	447.9	346.3
17.5°	2621.1	2277.9	1927.0	1586.8	1285.2	1043.5	855.7	704.9	569.5	455.6	352.5
15°	2682.7	2339.4	1982.4	1634.5	1320.6	1066.6	872.7	717.2	578.7	460.2	360.2
12.5°	2735.0	2391.8	2030.1	1676.1	1351.3	1086.6	886.5	726.5	586.4	464.8	364.8
10°	2778.1	2433.3	2070.1	1708.4	1376.0	1102.0	897.3	735.7	592.6	469.4	369.4
7.5°	2810.4	2464.1	2099.3	1736.1	1396.0	1112.8	906.5	741.8	598.7	472.5	377.1
5°	2835.0	2490.3	2122.4	1754.6	1411.4	1128.2	917.3	749.5	604.9	475.6	377.1
2.5°	2853.5	2511.8	2140.9	1770.0	1423.7	1125.1	917.3	748.0	604.9	475.6	375.5
0°	2850.4	2513.4	2139.4	1770.0	1423.7	1122.0	917.3	746.5	604.9	475.6	375.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.8	7.7	3.1	0.0
85°	23.1	15.4	7.7	0.0
82.5°	33.9	21.5	10.8	0.0
80°	44.6	29.2	13.9	0.0
77.5°	56.9	36.9	18.5	0.0
75°	67.7	43.1	21.5	0.0
72.5°	78.5	50.8	24.6	0.0
70°	87.7	56.9	27.7	0.0
67.5°	97.0	64.6	32.3	0.0
65°	104.7	70.8	35.4	0.0
62.5°	110.8	78.5	38.5	0.0
60°	118.5	84.7	41.6	0.0
57.5°	124.7	89.3	44.6	0.0
55°	130.8	92.3	47.7	0.0
52.5°	137.0	97.0	50.8	0.0
50°	143.1	101.6	53.9	0.0
47.5°	149.3	104.7	55.4	0.0
45°	158.5	109.3	58.5	0.0
42.5°	166.2	112.4	61.6	0.0
40°	173.9	115.4	63.1	0.0
37.5°	181.6	118.5	66.2	0.0
35°	189.3	121.6	67.7	0.0
32.5°	195.5	124.7	69.3	0.0
30°	201.6	127.7	70.8	0.0
27.5°	207.8	129.3	72.3	0.0
25°	212.4	132.4	73.9	0.0
22.5°	217.0	133.9	75.4	0.0
20°	220.1	135.4	77.0	0.0
17.5°	224.7	137.0	78.5	0.0
15°	226.2	138.5	81.6	0.0
12.5°	229.3	140.1	81.6	0.0
10°	230.9	141.6	81.6	0.0
7.5°	233.9	141.6	81.6	0.0
5°	232.4	141.6	81.6	0.0
2.5°	232.4	141.6	81.6	0.0
0°	230.9	141.6	81.6	0.0

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