

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: P628476

Luminaire Tested: **IFLD-S-SA3C-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628476
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

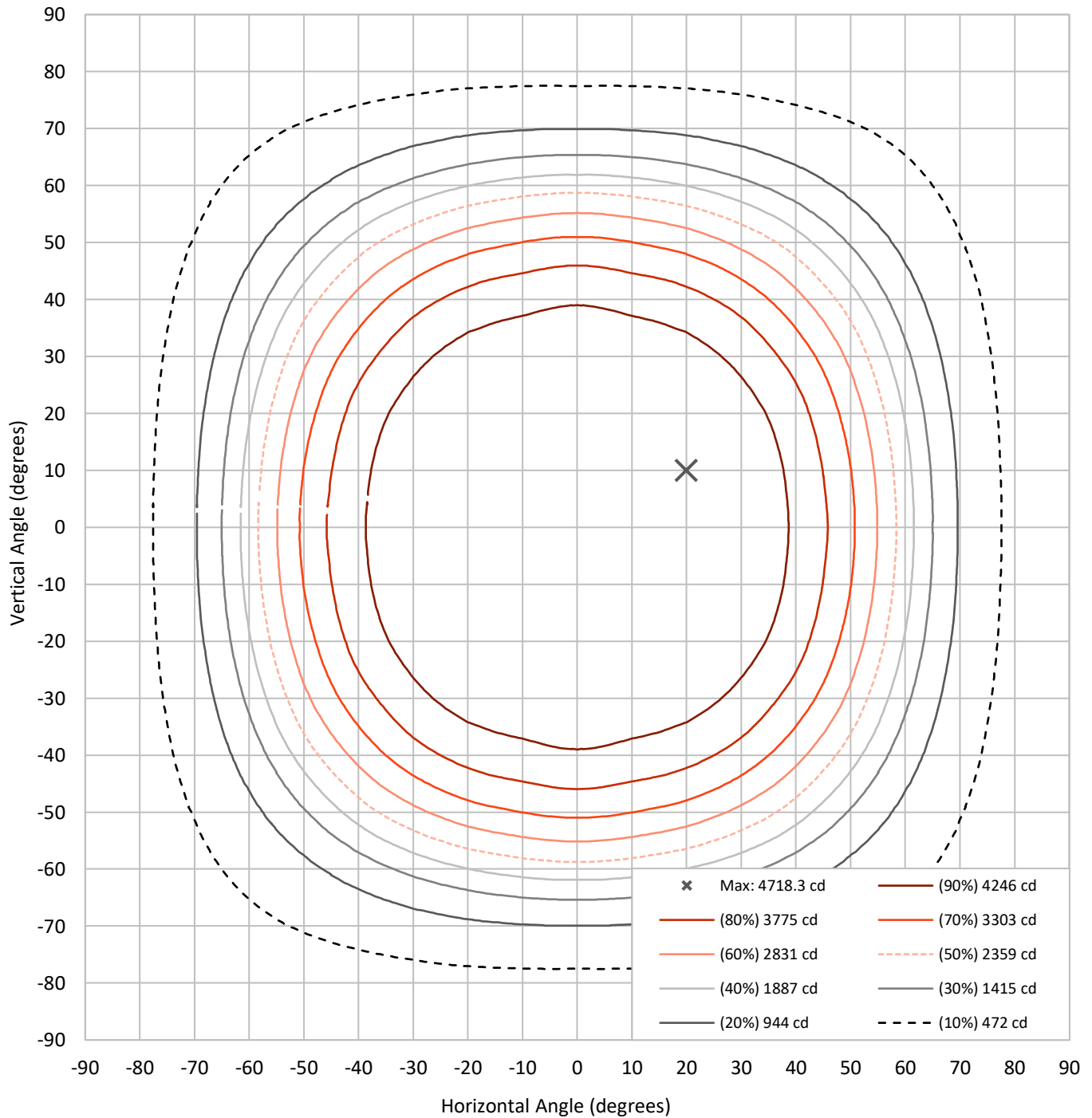
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14475.1 lumens	Max Intensity:	4718.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	90.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	8882.2 lumens	Field Lumens:	10648.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	160.8		
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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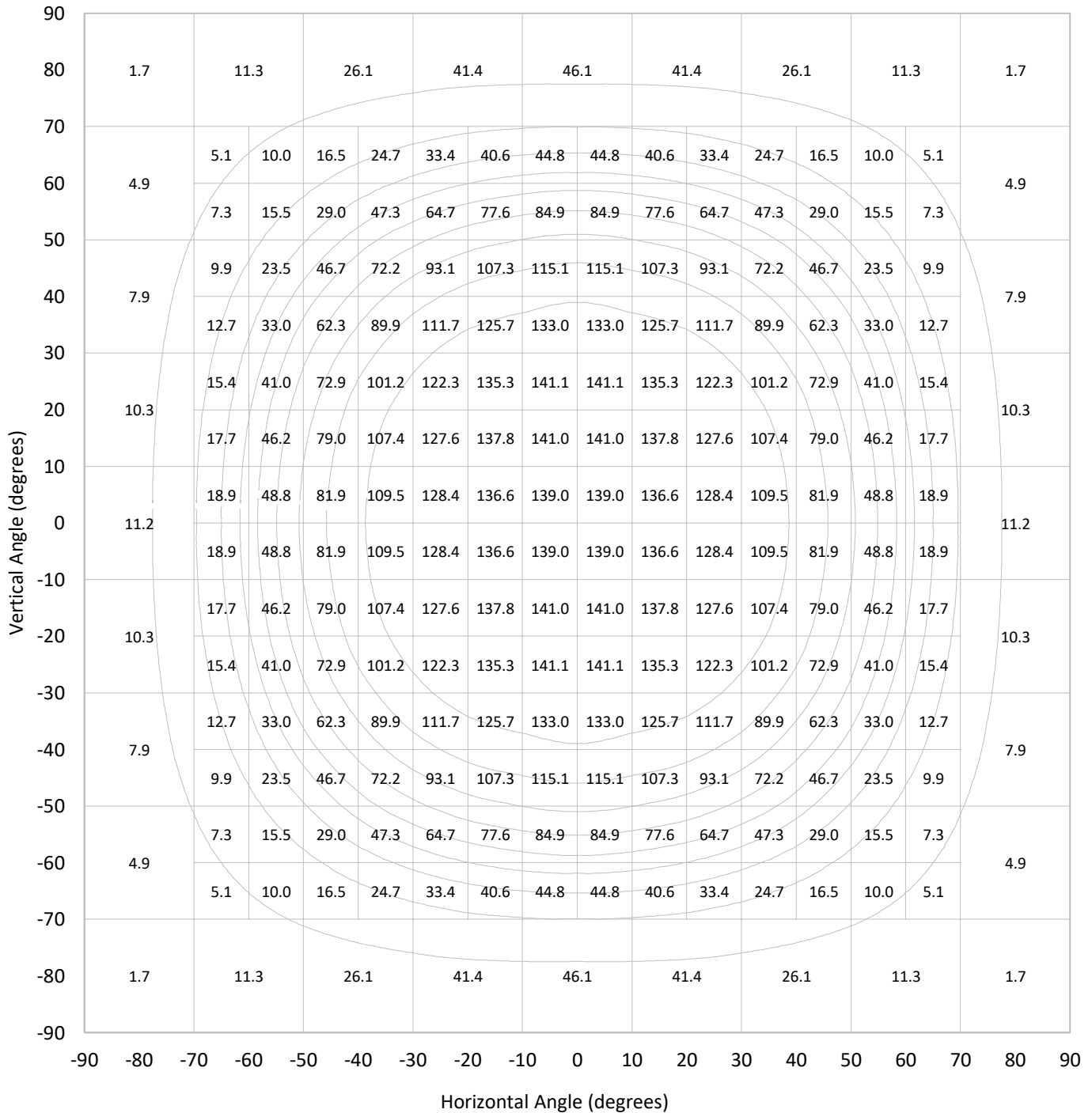
Iso-Candela Plot





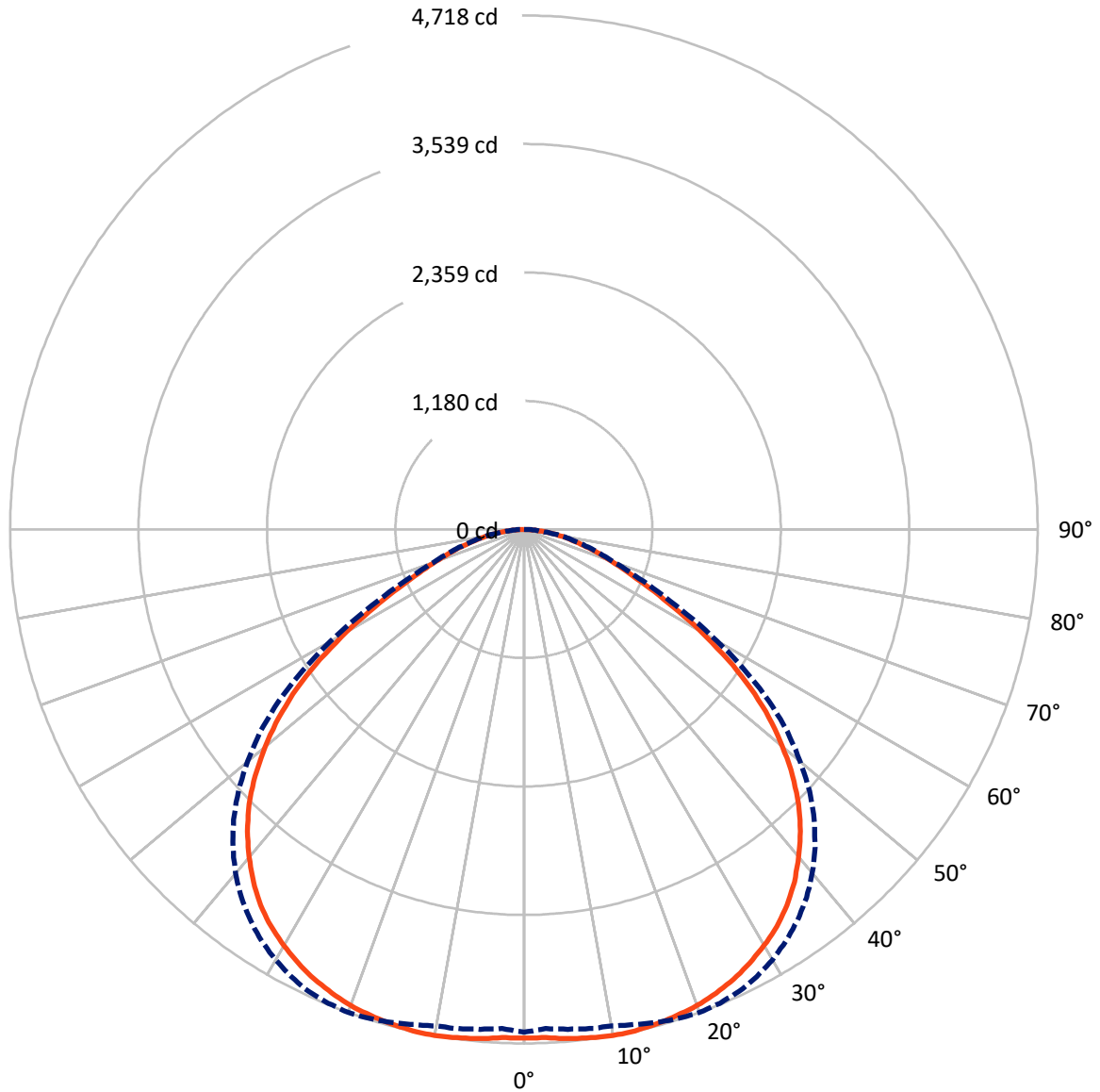
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Lumen Table



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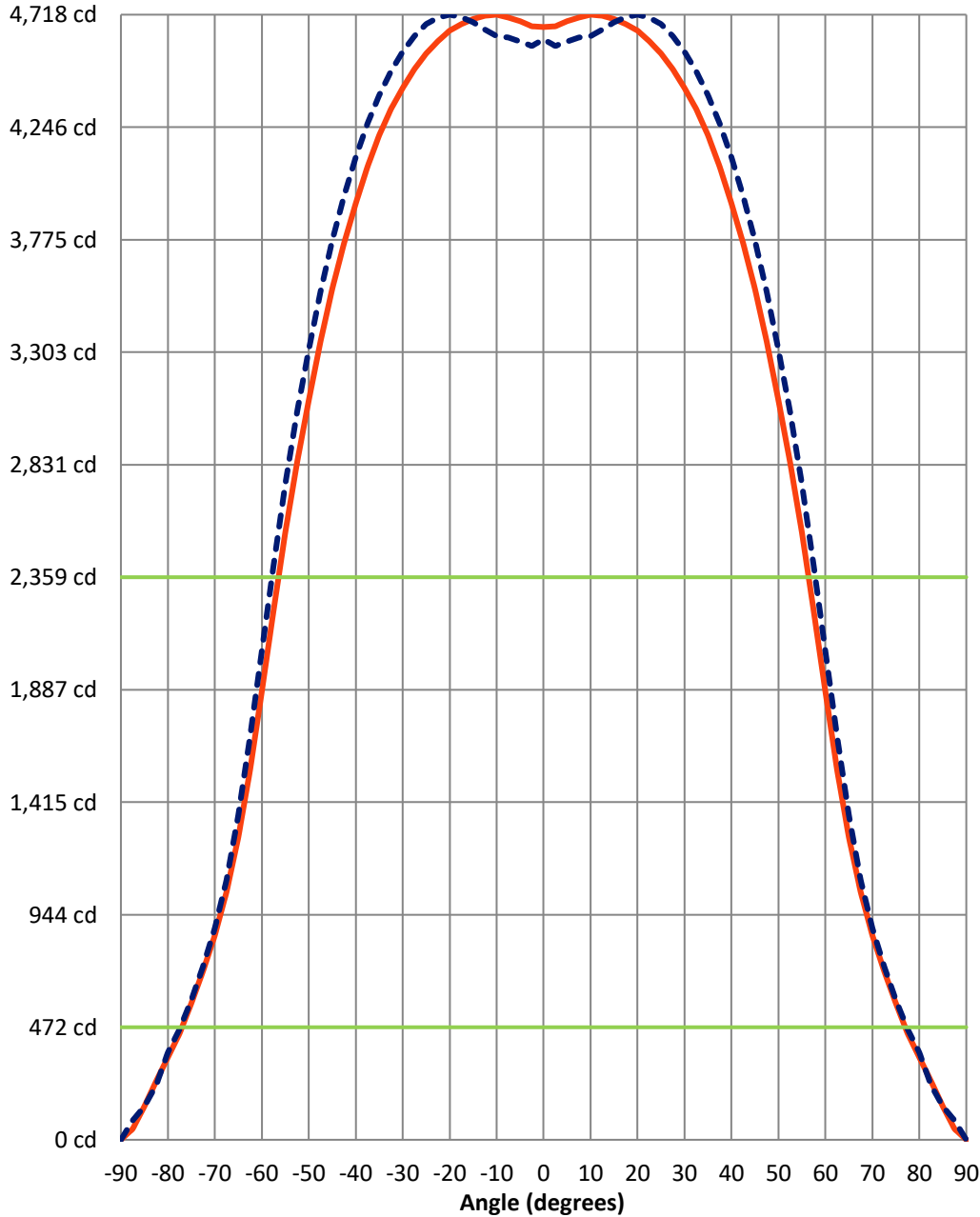
Luminous Intensity Polar Plot



— 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: 8882.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10648.3
 Efficiency: 73.6%

Spill:
 Lumens: 3826.8
 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°	38.1	41.1	42.6	44.2	45.7	47.2	48.7	47.2	45.7	45.7	44.2
85°	102.0	105.1	106.6	117.3	127.9	134.0	141.6	140.1	140.1	138.6	137.1
82.5°	204.1	213.2	220.8	231.5	237.6	246.7	252.8	248.3	245.2	239.1	234.5
80°	362.5	365.5	367.0	368.6	361.0	359.4	356.4	351.8	345.7	338.1	330.5
77.5°	461.5	464.5	467.6	464.5	463.0	461.5	456.9	452.3	446.2	440.2	431.0
75°	610.7	610.7	610.7	606.2	603.1	598.5	590.9	583.3	572.7	560.5	546.8
72.5°	769.1	767.6	766.1	756.9	749.3	740.2	729.5	720.4	708.2	694.5	676.2
70°	935.1	938.2	939.7	927.5	918.4	906.2	892.5	875.7	857.5	837.7	811.8
67.5°	1163.6	1160.5	1157.5	1140.7	1128.6	1111.8	1092.0	1067.6	1040.2	1009.8	973.2
65°	1446.9	1451.4	1442.3	1425.5	1402.7	1375.3	1344.8	1309.8	1268.7	1223.0	1171.2
62.5°	1789.5	1797.2	1786.5	1765.2	1736.2	1699.7	1657.0	1606.8	1550.4	1486.5	1422.5
60°	2179.4	2177.9	2158.1	2129.2	2091.1	2045.4	1998.2	1943.4	1879.4	1804.8	1727.1
57.5°	2537.3	2534.3	2509.9	2481.0	2442.9	2394.2	2343.9	2286.0	2219.0	2139.8	2050.0
55°	2858.7	2855.7	2831.3	2800.8	2761.2	2712.5	2666.8	2612.0	2546.5	2462.7	2366.8
52.5°	3143.5	3145.0	3123.7	3090.2	3047.6	3000.3	2956.2	2901.3	2838.9	2755.1	2662.2
50°	3405.5	3403.9	3381.1	3350.6	3311.0	3265.3	3221.2	3166.4	3100.9	3020.1	2930.3
47.5°	3649.1	3646.1	3620.2	3586.7	3545.6	3506.0	3464.9	3416.1	3347.6	3266.9	3177.0
45°	3853.2	3847.1	3821.2	3789.3	3749.7	3714.6	3678.1	3641.5	3568.4	3493.8	3408.5
42.5°	4028.4	4026.9	4001.0	3969.0	3929.4	3898.9	3865.4	3819.7	3758.8	3690.3	3606.5
40°	4195.9	4183.7	4157.8	4127.4	4090.8	4064.9	4031.4	3985.7	3926.3	3859.3	3778.6
37.5°	4320.8	4322.3	4294.9	4261.4	4229.4	4205.0	4174.6	4131.9	4080.2	4014.7	3934.0
35°	4439.6	4432.0	4409.1	4380.2	4351.3	4323.8	4291.9	4255.3	4212.7	4151.7	4075.6
32.5°	4517.3	4527.9	4500.5	4470.1	4453.3	4432.0	4398.5	4360.4	4322.3	4261.4	4192.9
30°	4602.6	4593.4	4572.1	4546.2	4534.0	4520.3	4491.4	4454.8	4410.7	4355.8	4291.9
27.5°	4662.0	4657.4	4631.5	4607.1	4601.0	4588.8	4566.0	4534.0	4489.9	4436.5	4377.2
25°	4687.8	4690.9	4666.5	4652.8	4652.8	4645.2	4626.9	4599.5	4555.3	4506.6	4448.7
22.5°	4700.0	4697.0	4680.2	4677.2	4684.8	4678.7	4671.1	4646.7	4607.1	4567.5	4518.8
20°	4707.6	4686.3	4671.1	4683.3	4692.4	4690.9	4684.8	4669.6	4651.3	4617.8	4575.1
17.5°	4690.9	4677.2	4658.9	4677.2	4697.0	4698.5	4692.4	4683.3	4678.7	4657.4	4619.3
15°	4649.8	4639.1	4642.2	4660.4	4683.3	4690.9	4695.5	4706.1	4700.0	4683.3	4649.8
12.5°	4622.4	4608.6	4622.4	4640.6	4652.8	4657.4	4693.9	4713.7	4713.7	4698.5	4677.2
10°	4614.7	4587.3	4605.6	4622.4	4628.4	4655.9	4686.3	4707.6	4718.3	4706.1	4678.7
7.5°	4599.5	4581.2	4588.8	4596.5	4631.5	4651.3	4668.0	4690.9	4706.1	4704.6	4680.2
5°	4591.9	4569.1	4572.1	4604.1	4628.4	4642.2	4648.2	4668.0	4690.9	4695.5	4677.2
2.5°	4572.1	4561.4	4584.3	4587.3	4605.6	4616.3	4622.4	4640.6	4669.6	4680.2	4672.6
0°	4561.4	4546.2	4531.0	4543.2	4573.6	4596.5	4605.6	4633.0	4666.5	4677.2	4660.4



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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°	42.6	41.1	39.6	38.1	39.6	39.6	39.6	38.1	39.6	38.1	38.1
85°	132.5	126.4	121.8	115.7	109.7	105.1	99.0	92.9	91.4	89.9	86.8
82.5°	228.5	220.8	213.2	204.1	194.9	184.3	173.6	161.4	158.4	155.3	150.8
80°	321.4	310.7	300.0	289.4	280.2	269.6	257.4	243.7	234.5	226.9	217.8
77.5°	418.8	403.6	388.4	370.1	359.4	348.8	336.6	322.9	309.2	297.0	283.3
75°	530.0	513.3	498.0	479.8	460.0	440.2	420.4	402.1	382.3	364.0	345.7
72.5°	653.4	629.0	604.6	581.8	557.4	533.1	507.2	482.8	458.4	434.1	408.2
70°	782.8	752.4	721.9	691.4	659.5	627.5	597.0	566.6	536.1	504.1	475.2
67.5°	935.1	900.1	860.5	817.9	770.6	729.5	689.9	653.4	616.8	580.3	543.7
65°	1125.5	1076.8	1023.5	965.6	910.8	855.9	798.1	743.2	700.6	657.9	616.8
62.5°	1360.1	1291.5	1216.9	1142.3	1075.2	1003.7	936.7	865.1	798.1	737.1	686.9
60°	1640.3	1547.4	1456.0	1360.1	1267.2	1169.7	1084.4	996.1	912.3	837.7	764.6
57.5°	1949.5	1841.3	1731.7	1614.4	1488.0	1373.8	1258.0	1142.3	1043.3	944.3	862.0
55°	2263.2	2149.0	2025.6	1893.1	1754.5	1608.3	1451.4	1322.0	1186.4	1070.7	964.1
52.5°	2561.7	2442.9	2315.0	2193.1	2027.1	1859.6	1687.5	1516.9	1358.5	1210.8	1081.3
50°	2828.2	2712.5	2589.1	2447.5	2293.7	2115.5	1923.6	1731.7	1544.3	1370.7	1209.3
47.5°	3071.9	2959.2	2835.9	2694.2	2554.1	2356.1	2162.7	1951.0	1742.3	1542.8	1354.0
45°	3300.4	3186.2	3058.2	2922.7	2761.2	2584.6	2385.0	2171.8	1947.9	1724.1	1506.3
42.5°	3507.5	3393.3	3263.8	3123.7	2963.8	2788.6	2595.2	2380.5	2155.1	1911.4	1672.3
40°	3688.7	3577.6	3452.7	3306.5	3157.2	2972.9	2782.6	2578.5	2345.4	2100.2	1836.8
37.5°	3847.1	3743.6	3620.2	3475.5	3317.1	3152.6	2956.2	2752.1	2541.9	2275.4	2005.8
35°	3987.3	3891.3	3764.9	3627.8	3472.5	3298.9	3114.6	2915.1	2688.1	2438.3	2176.4
32.5°	4109.1	4011.6	3895.9	3758.8	3608.0	3445.1	3256.2	3055.2	2840.4	2586.1	2301.3
30°	4212.7	4118.2	4008.6	3879.1	3734.4	3573.0	3388.7	3186.2	2966.8	2714.0	2432.3
27.5°	4302.5	4212.7	4106.1	3985.7	3847.1	3691.8	3506.0	3301.9	3078.0	2834.3	2552.6
25°	4380.2	4293.4	4194.4	4080.2	3943.1	3790.8	3615.6	3402.4	3178.5	2933.3	2654.6
22.5°	4450.3	4366.5	4267.5	4156.3	4031.4	3879.1	3702.5	3490.8	3263.8	3021.7	2747.5
20°	4512.7	4435.0	4337.6	4223.3	4098.4	3944.6	3769.5	3568.4	3340.0	3102.4	2831.3
17.5°	4563.0	4494.4	4396.9	4276.6	4151.7	4002.5	3831.9	3647.6	3405.5	3170.9	2901.3
15°	4598.0	4531.0	4442.6	4320.8	4199.0	4051.2	3880.6	3690.3	3464.9	3225.7	2959.2
12.5°	4622.4	4550.8	4468.5	4355.8	4234.0	4087.8	3921.8	3734.4	3515.1	3274.5	3009.5
10°	4628.4	4563.0	4480.7	4380.2	4261.4	4119.8	3956.8	3771.0	3556.2	3312.6	3050.6
7.5°	4631.5	4569.1	4494.4	4398.5	4281.2	4144.1	3982.7	3799.9	3586.7	3344.5	3081.1
5°	4630.0	4570.6	4503.6	4410.7	4293.4	4157.8	3999.4	3819.7	3608.0	3365.9	3103.9
2.5°	4625.4	4572.1	4509.7	4419.8	4307.1	4173.1	4016.2	3842.6	3630.9	3384.1	3122.2
0°	4637.6	4591.9	4512.7	4416.7	4310.1	4173.1	4014.7	3845.6	3633.9	3382.6	3120.7



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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°	38.1	36.6	36.6	35.0	33.5	32.0	28.9	27.4	24.4	19.8	15.2
85°	82.2	77.7	73.1	70.1	67.0	64.0	59.4	54.8	48.7	39.6	30.5
82.5°	144.7	135.5	126.4	115.7	106.6	97.5	89.9	82.2	73.1	59.4	45.7
80°	207.1	193.4	179.7	164.5	150.8	135.5	121.8	109.7	97.5	79.2	60.9
77.5°	269.6	251.3	231.5	213.2	193.4	173.6	153.8	137.1	118.8	97.5	76.2
75°	327.4	306.1	287.9	262.0	237.6	211.7	185.8	163.0	140.1	114.2	91.4
72.5°	385.3	357.9	332.0	307.6	280.2	248.3	219.3	190.4	161.4	131.0	103.6
70°	443.2	409.7	377.7	348.8	318.3	286.3	251.3	217.8	182.8	146.2	114.2
67.5°	502.6	464.5	428.0	391.4	356.4	319.8	283.3	245.2	204.1	161.4	126.4
65°	568.1	520.9	476.7	435.6	394.5	354.9	313.7	272.6	226.9	178.2	137.1
62.5°	633.6	581.8	530.0	478.2	432.5	388.4	344.2	298.5	248.3	196.5	147.7
60°	703.6	644.2	584.8	527.0	470.6	421.9	373.1	324.4	271.1	213.2	158.4
57.5°	781.3	709.7	642.7	577.2	513.3	455.4	402.1	350.3	290.9	230.0	170.6
55°	869.6	781.3	702.1	629.0	558.9	488.9	431.0	377.7	313.7	246.7	184.3
52.5°	962.5	860.5	764.6	682.3	607.7	528.5	458.4	399.0	336.6	263.5	196.5
50°	1070.7	941.2	834.6	734.1	650.3	568.1	487.4	423.4	359.4	283.3	208.7
47.5°	1181.9	1038.7	904.7	795.0	696.0	606.2	520.9	444.7	380.8	301.6	220.8
45°	1311.3	1131.6	983.9	854.4	740.2	645.8	554.4	467.6	399.0	319.8	233.0
42.5°	1436.2	1241.3	1066.1	919.9	790.4	683.8	584.8	491.9	417.3	338.1	243.7
40°	1583.9	1350.9	1145.3	982.3	840.7	720.4	615.3	517.8	434.1	354.9	254.3
37.5°	1725.6	1462.1	1241.3	1050.9	889.4	756.9	645.8	542.2	449.3	371.6	268.1
35°	1865.7	1585.5	1332.6	1114.8	939.7	798.1	676.2	565.0	464.5	385.3	280.2
32.5°	1999.7	1701.2	1425.5	1186.4	994.5	836.1	703.6	586.4	479.8	397.5	292.4
30°	2124.6	1810.9	1516.9	1259.5	1044.8	871.2	729.5	607.7	498.0	408.2	304.6
27.5°	2238.8	1917.5	1608.3	1328.1	1092.0	903.1	756.9	627.5	513.3	418.8	315.3
25°	2342.4	2013.4	1692.1	1390.5	1134.6	938.2	782.8	647.3	527.0	428.0	324.4
22.5°	2439.9	2101.8	1768.2	1453.0	1186.4	973.2	807.2	665.6	540.7	437.1	333.5
20°	2525.2	2182.5	1841.3	1515.4	1232.1	1005.2	828.5	682.3	552.9	443.2	342.7
17.5°	2593.7	2254.1	1906.8	1570.2	1271.7	1032.6	846.8	697.5	563.5	450.8	348.8
15°	2654.6	2315.0	1961.6	1617.4	1306.7	1055.5	863.6	709.7	572.7	455.4	356.4
12.5°	2706.4	2366.8	2008.9	1658.6	1337.2	1075.2	877.3	718.9	580.3	460.0	361.0
10°	2749.0	2407.9	2048.5	1690.5	1361.6	1090.5	887.9	728.0	586.4	464.5	365.5
7.5°	2781.0	2438.3	2077.4	1718.0	1381.4	1101.1	897.1	734.1	592.5	467.6	373.1
5°	2805.4	2464.2	2100.2	1736.2	1396.6	1116.4	907.7	741.7	598.5	470.6	373.1
2.5°	2823.7	2485.6	2118.5	1751.5	1408.8	1113.3	907.7	740.2	598.5	470.6	371.6
0°	2820.6	2487.1	2117.0	1751.5	1408.8	1110.3	907.7	738.7	598.5	470.6	371.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.7	7.6	3.0	0.0
85°	22.8	15.2	7.6	0.0
82.5°	33.5	21.3	10.7	0.0
80°	44.2	28.9	13.7	0.0
77.5°	56.4	36.6	18.3	0.0
75°	67.0	42.6	21.3	0.0
72.5°	77.7	50.3	24.4	0.0
70°	86.8	56.4	27.4	0.0
67.5°	96.0	64.0	32.0	0.0
65°	103.6	70.1	35.0	0.0
62.5°	109.7	77.7	38.1	0.0
60°	117.3	83.8	41.1	0.0
57.5°	123.4	88.3	44.2	0.0
55°	129.5	91.4	47.2	0.0
52.5°	135.5	96.0	50.3	0.0
50°	141.6	100.5	53.3	0.0
47.5°	147.7	103.6	54.8	0.0
45°	156.9	108.1	57.9	0.0
42.5°	164.5	111.2	60.9	0.0
40°	172.1	114.2	62.4	0.0
37.5°	179.7	117.3	65.5	0.0
35°	187.3	120.3	67.0	0.0
32.5°	193.4	123.4	68.5	0.0
30°	199.5	126.4	70.1	0.0
27.5°	205.6	127.9	71.6	0.0
25°	210.2	131.0	73.1	0.0
22.5°	214.7	132.5	74.6	0.0
20°	217.8	134.0	76.2	0.0
17.5°	222.4	135.5	77.7	0.0
15°	223.9	137.1	80.7	0.0
12.5°	226.9	138.6	80.7	0.0
10°	228.5	140.1	80.7	0.0
7.5°	231.5	140.1	80.7	0.0
5°	230.0	140.1	80.7	0.0
2.5°	230.0	140.1	80.7	0.0
0°	228.5	140.1	80.7	0.0

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