

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: P628157

Luminaire Tested: **IFLD-S-SA3C-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628157
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

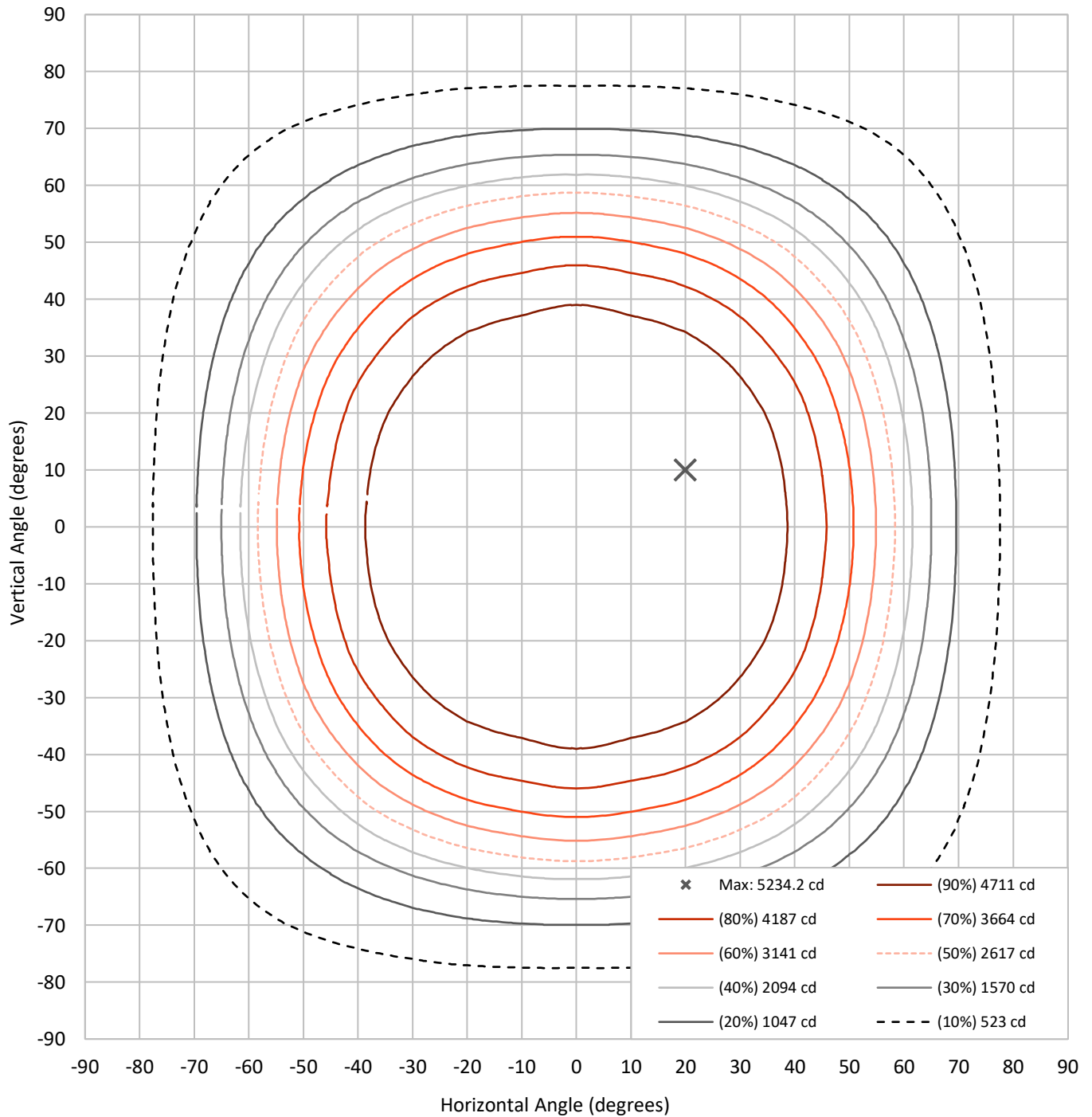
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16057.8 lumens	Max Intensity:	5234.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	99.9 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:	9853.4 lumens	Field Lumens:	11812.5 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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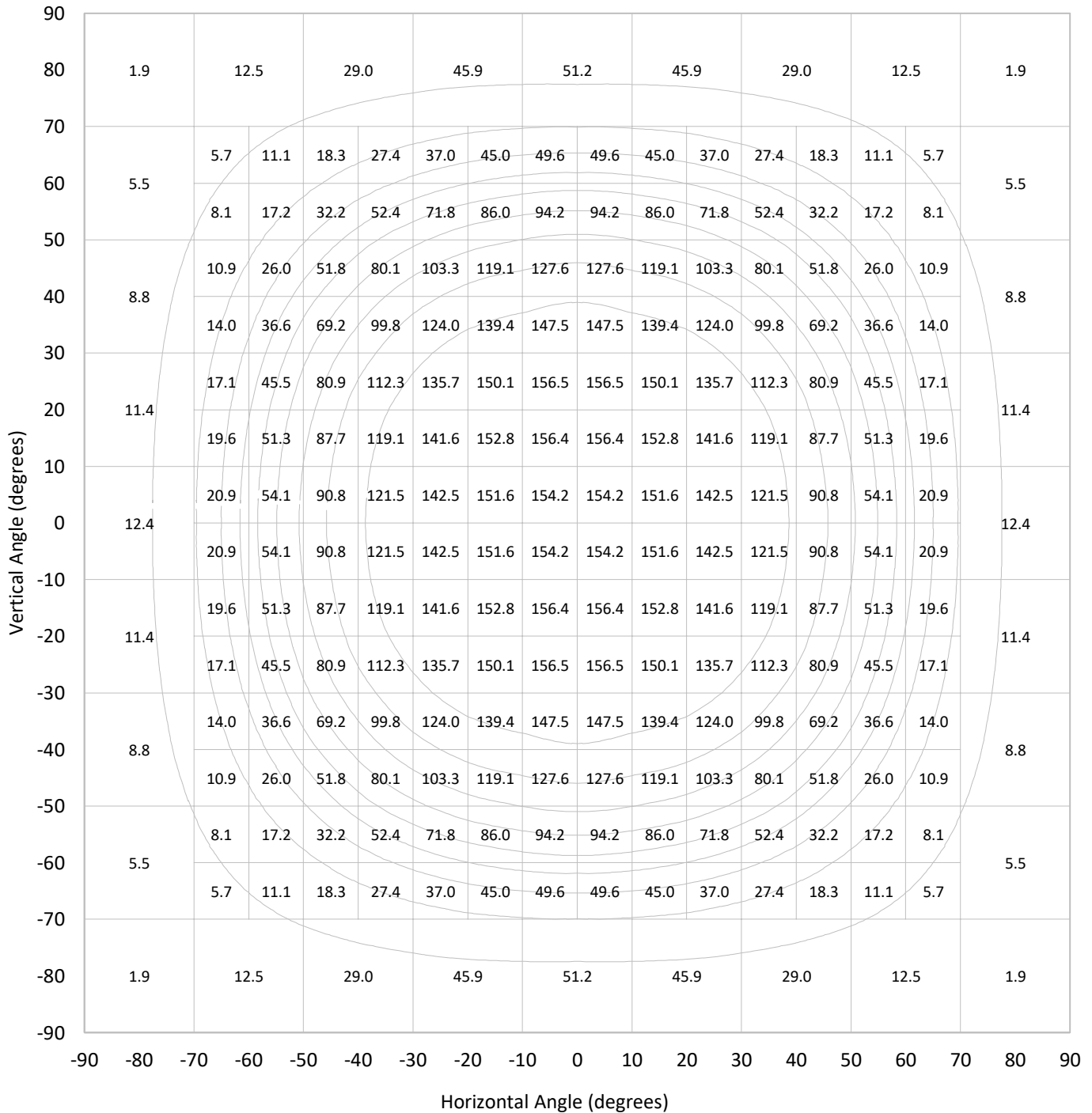
Iso-Candela Plot





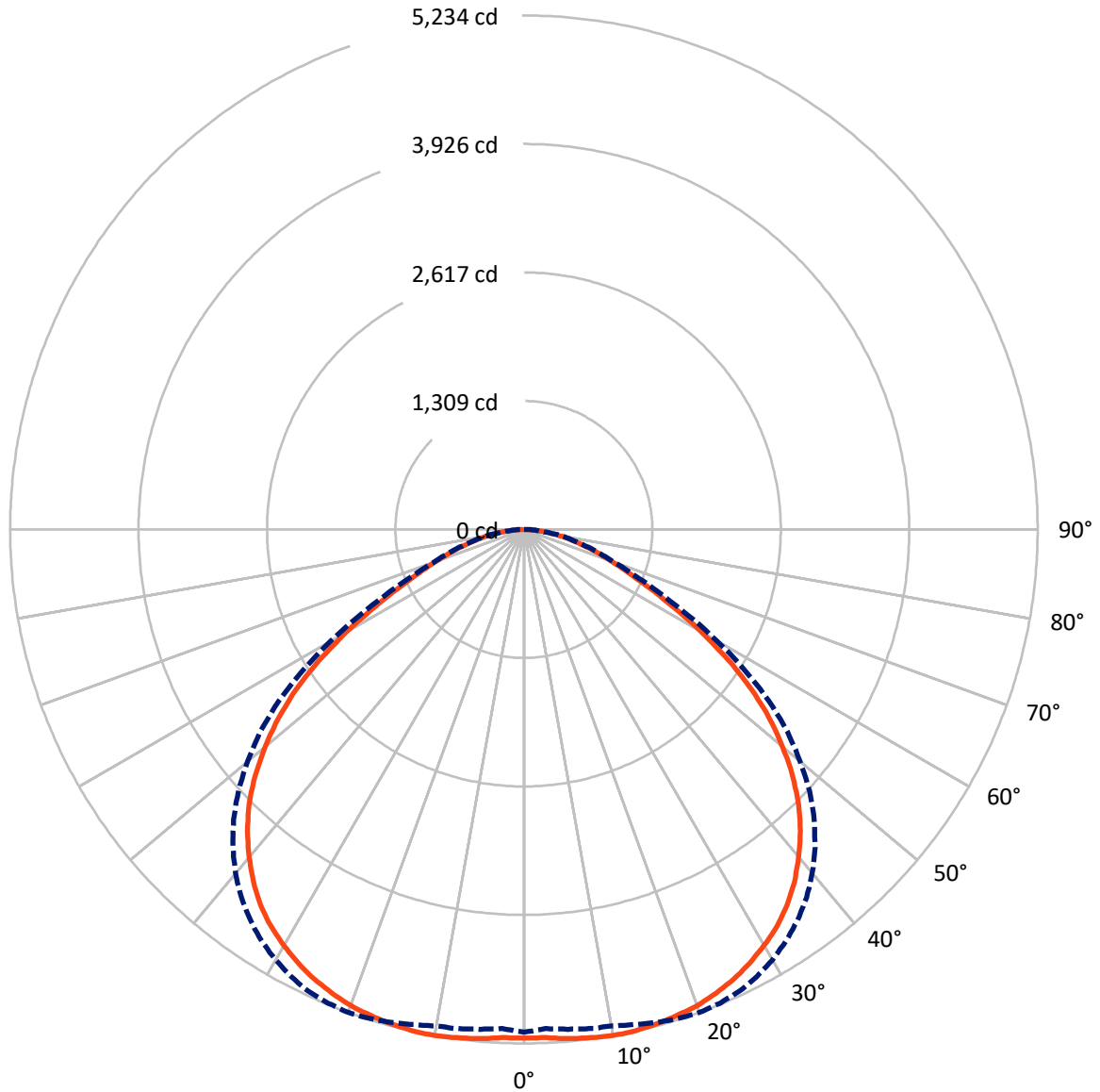
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Lumen Table



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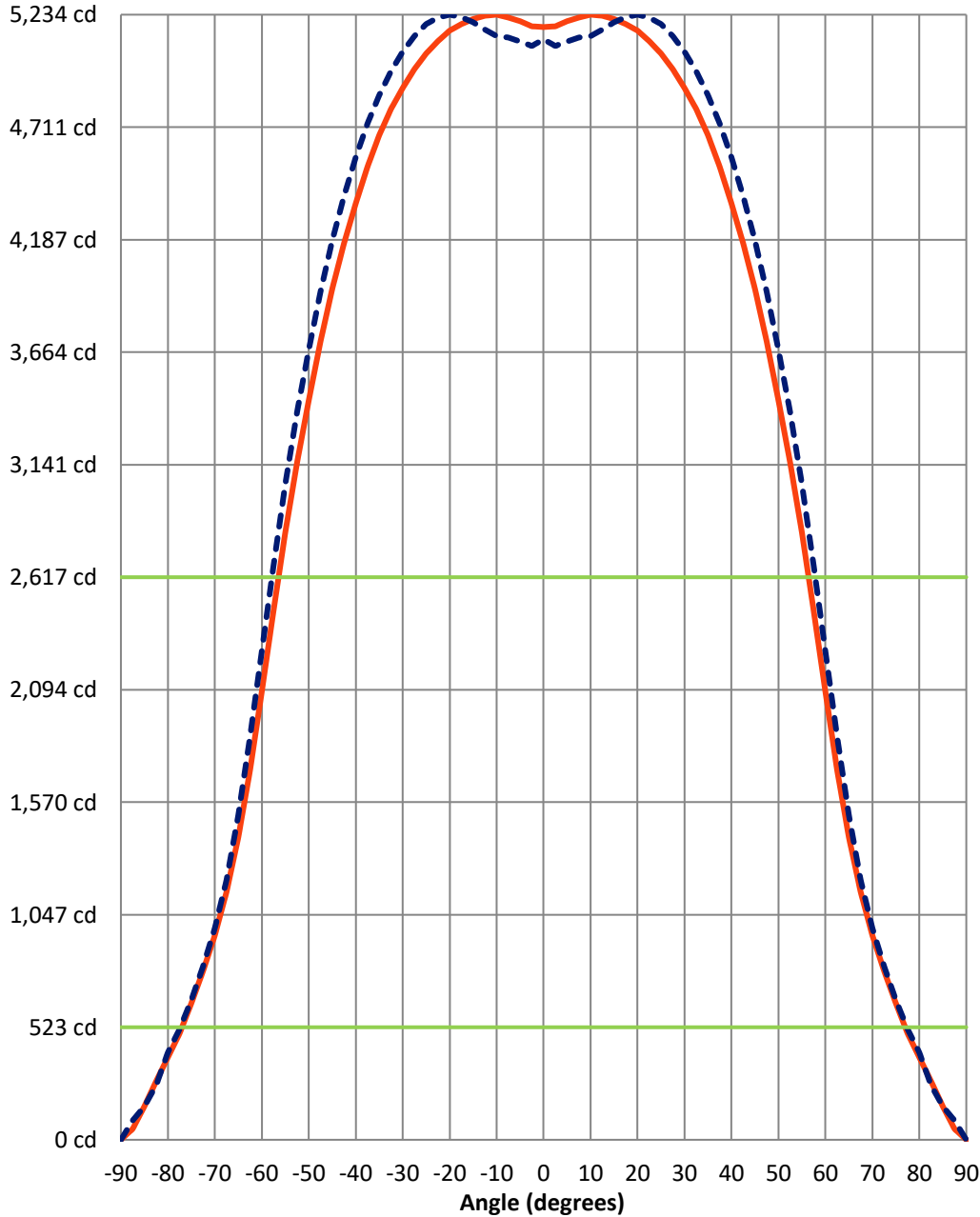
Luminous Intensity Polar Plot



— 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: 9853.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 11812.5
 Efficiency: 73.6%

Spill:
 Lumens: 4245.3
 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°	42.2	45.6	47.3	49.0	50.7	52.4	54.1	52.4	50.7	50.7	49.0
85°	113.2	116.6	118.3	130.1	141.9	148.7	157.1	155.4	155.4	153.7	152.1
82.5°	226.4	236.5	245.0	256.8	263.6	273.7	280.5	275.4	272.0	265.3	260.2
80°	402.1	405.5	407.2	408.9	400.4	398.7	395.4	390.3	383.5	375.1	366.6
77.5°	511.9	515.3	518.7	515.3	513.6	511.9	506.9	501.8	495.0	488.3	478.1
75°	677.5	677.5	677.5	672.4	669.1	664.0	655.5	647.1	635.3	621.8	606.5
72.5°	853.2	851.5	849.8	839.7	831.3	821.1	809.3	799.2	785.6	770.4	750.2
70°	1037.4	1040.8	1042.4	1028.9	1018.8	1005.3	990.1	971.5	951.2	929.2	900.5
67.5°	1290.8	1287.4	1284.0	1265.5	1251.9	1233.4	1211.4	1184.4	1154.0	1120.2	1079.6
65°	1605.1	1610.1	1600.0	1581.4	1556.1	1525.7	1491.9	1453.0	1407.4	1356.7	1299.3
62.5°	1985.2	1993.7	1981.8	1958.2	1926.1	1885.5	1838.2	1782.5	1720.0	1649.0	1578.0
60°	2417.7	2416.0	2394.1	2362.0	2319.7	2269.1	2216.7	2155.9	2084.9	2002.1	1915.9
57.5°	2814.8	2811.4	2784.4	2752.3	2710.0	2656.0	2600.2	2536.0	2461.7	2373.8	2274.1
55°	3171.3	3167.9	3140.9	3107.1	3063.1	3009.1	2958.4	2897.6	2824.9	2732.0	2625.5
52.5°	3487.2	3488.9	3465.2	3428.1	3380.8	3328.4	3279.4	3218.6	3149.3	3056.4	2953.3
50°	3777.8	3776.1	3750.8	3717.0	3673.1	3622.4	3573.4	3512.6	3439.9	3350.4	3250.7
47.5°	4048.1	4044.8	4016.0	3978.9	3933.2	3889.3	3843.7	3789.6	3713.6	3624.1	3524.4
45°	4274.5	4267.8	4239.1	4203.6	4159.6	4120.8	4080.2	4039.7	3958.6	3875.8	3781.2
42.5°	4468.8	4467.1	4438.4	4402.9	4359.0	4325.2	4288.1	4237.4	4169.8	4093.8	4000.8
40°	4654.7	4641.2	4612.4	4578.7	4538.1	4509.4	4472.2	4421.5	4355.6	4281.3	4191.7
37.5°	4793.2	4794.9	4764.5	4727.3	4691.9	4664.8	4631.0	4583.7	4526.3	4453.6	4364.1
35°	4925.0	4916.6	4891.2	4859.1	4827.0	4796.6	4761.1	4720.6	4673.3	4605.7	4521.2
32.5°	5011.2	5023.0	4992.6	4958.8	4940.2	4916.6	4879.4	4837.2	4794.9	4727.3	4651.3
30°	5105.8	5095.7	5072.0	5043.3	5029.8	5014.6	4982.5	4941.9	4892.9	4832.1	4761.1
27.5°	5171.7	5166.6	5137.9	5110.9	5104.1	5090.6	5065.2	5029.8	4980.8	4921.6	4855.7
25°	5200.4	5203.8	5176.7	5161.5	5161.5	5153.1	5132.8	5102.4	5053.4	4999.3	4935.1
22.5°	5213.9	5210.5	5192.0	5188.6	5197.0	5190.3	5181.8	5154.8	5110.9	5066.9	5012.9
20°	5222.4	5198.7	5181.8	5195.3	5205.5	5203.8	5197.0	5180.1	5159.9	5122.7	5075.4
17.5°	5203.8	5188.6	5168.3	5188.6	5210.5	5212.2	5205.5	5195.3	5190.3	5166.6	5124.4
15°	5158.2	5146.3	5149.7	5170.0	5195.3	5203.8	5208.9	5220.7	5213.9	5195.3	5158.2
12.5°	5127.8	5112.5	5127.8	5148.0	5161.5	5166.6	5207.2	5229.1	5229.1	5212.2	5188.6
10°	5119.3	5088.9	5109.2	5127.8	5134.5	5164.9	5198.7	5222.4	5234.2	5220.7	5190.3
7.5°	5102.4	5082.1	5090.6	5099.0	5137.9	5159.9	5178.4	5203.8	5220.7	5219.0	5192.0
5°	5094.0	5068.6	5072.0	5107.5	5134.5	5149.7	5156.5	5178.4	5203.8	5208.9	5188.6
2.5°	5072.0	5060.2	5085.5	5088.9	5109.2	5121.0	5127.8	5148.0	5180.1	5192.0	5183.5
0°	5060.2	5043.3	5026.4	5039.9	5073.7	5099.0	5109.2	5139.6	5176.7	5188.6	5170.0



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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°	47.3	45.6	43.9	42.2	43.9	43.9	43.9	42.2	43.9	42.2	42.2
85°	147.0	140.2	135.2	128.4	121.6	116.6	109.8	103.1	101.4	99.7	96.3
82.5°	253.4	245.0	236.5	226.4	216.3	204.4	192.6	179.1	175.7	172.3	167.3
80°	356.5	344.7	332.8	321.0	310.9	299.0	285.5	270.3	260.2	251.7	241.6
77.5°	464.6	447.7	430.8	410.6	398.7	386.9	373.4	358.2	343.0	329.5	314.3
75°	588.0	569.4	552.5	532.2	510.2	488.3	466.3	446.0	424.1	403.8	383.5
72.5°	724.8	697.8	670.7	645.4	618.4	591.3	562.6	535.6	508.6	481.5	452.8
70°	868.4	834.6	800.8	767.1	731.6	696.1	662.3	628.5	594.7	559.2	527.1
67.5°	1037.4	998.5	954.6	907.3	854.9	809.3	765.4	724.8	684.3	643.7	603.2
65°	1248.6	1194.5	1135.4	1071.2	1010.3	949.5	885.3	824.5	777.2	729.9	684.3
62.5°	1508.8	1432.7	1349.9	1267.2	1192.8	1113.4	1039.1	959.7	885.3	817.7	762.0
60°	1819.6	1716.6	1615.2	1508.8	1405.7	1297.6	1203.0	1105.0	1012.0	929.2	848.1
57.5°	2162.6	2042.7	1921.0	1790.9	1650.7	1524.0	1395.6	1267.2	1157.3	1047.5	956.3
55°	2510.7	2383.9	2247.1	2100.1	1946.3	1784.2	1610.1	1466.5	1316.2	1187.7	1069.5
52.5°	2841.8	2710.0	2568.1	2432.9	2248.8	2062.9	1872.0	1682.8	1507.1	1343.2	1199.6
50°	3137.5	3009.1	2872.2	2715.1	2544.4	2346.8	2133.9	1921.0	1713.2	1520.6	1341.5
47.5°	3407.8	3282.8	3145.9	2988.8	2833.4	2613.7	2399.1	2164.3	1932.8	1711.5	1502.0
45°	3661.2	3534.5	3392.6	3242.2	3063.1	2867.1	2645.8	2409.3	2160.9	1912.6	1671.0
42.5°	3891.0	3764.3	3620.7	3465.2	3287.8	3093.5	2879.0	2640.8	2390.7	2120.4	1855.1
40°	4092.1	3968.7	3830.2	3668.0	3502.4	3298.0	3086.8	2860.4	2601.9	2329.9	2037.6
37.5°	4267.8	4152.9	4016.0	3855.5	3679.8	3497.3	3279.4	3053.0	2819.8	2524.2	2225.1
35°	4423.2	4316.8	4176.5	4024.5	3852.1	3659.5	3455.1	3233.8	2982.0	2705.0	2414.4
32.5°	4558.4	4450.2	4321.8	4169.8	4002.5	3821.7	3612.2	3389.2	3151.0	2868.8	2552.9
30°	4673.3	4568.5	4446.9	4303.3	4142.8	3963.7	3759.2	3534.5	3291.2	3010.8	2698.2
27.5°	4772.9	4673.3	4555.0	4421.5	4267.8	4095.4	3889.3	3662.9	3414.6	3144.2	2831.7
25°	4859.1	4762.8	4653.0	4526.3	4374.2	4205.3	4011.0	3774.4	3526.1	3254.1	2944.9
22.5°	4936.8	4843.9	4734.1	4610.8	4472.2	4303.3	4107.3	3872.4	3620.7	3352.0	3047.9
20°	5006.1	4919.9	4811.8	4685.1	4546.6	4375.9	4181.6	3958.6	3705.2	3441.6	3140.9
17.5°	5061.9	4985.8	4877.7	4744.2	4605.7	4440.1	4250.9	4046.4	3777.8	3517.6	3218.6
15°	5100.7	5026.4	4928.4	4793.2	4658.1	4494.2	4304.9	4093.8	3843.7	3578.4	3282.8
12.5°	5127.8	5048.3	4957.1	4832.1	4696.9	4534.7	4350.6	4142.8	3899.5	3632.5	3338.5
10°	5134.5	5061.9	4970.6	4859.1	4727.3	4570.2	4389.4	4183.3	3945.1	3674.7	3384.1
7.5°	5137.9	5068.6	4985.8	4879.4	4749.3	4597.2	4418.1	4215.4	3978.9	3710.2	3417.9
5°	5136.2	5070.3	4996.0	4892.9	4762.8	4612.4	4436.7	4237.4	4002.5	3733.9	3443.3
2.5°	5131.1	5072.0	5002.7	4903.0	4778.0	4629.3	4455.3	4262.7	4027.9	3754.2	3463.6
0°	5144.6	5094.0	5006.1	4899.7	4781.4	4629.3	4453.6	4266.1	4031.2	3752.5	3461.9



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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°	42.2	40.5	40.5	38.9	37.2	35.5	32.1	30.4	27.0	22.0	16.9
85°	91.2	86.2	81.1	77.7	74.3	71.0	65.9	60.8	54.1	43.9	33.8
82.5°	160.5	150.4	140.2	128.4	118.3	108.1	99.7	91.2	81.1	65.9	50.7
80°	229.8	214.6	199.4	182.5	167.3	150.4	135.2	121.6	108.1	87.9	67.6
77.5°	299.0	278.8	256.8	236.5	214.6	192.6	170.6	152.1	131.8	108.1	84.5
75°	363.3	339.6	319.3	290.6	263.6	234.8	206.1	180.8	155.4	126.7	101.4
72.5°	427.5	397.0	368.3	341.3	310.9	275.4	243.3	211.2	179.1	145.3	114.9
70°	491.7	454.5	419.0	386.9	353.1	317.6	278.8	241.6	202.7	162.2	126.7
67.5°	557.5	515.3	474.8	434.2	395.4	354.8	314.3	272.0	226.4	179.1	140.2
65°	630.2	577.8	528.8	483.2	437.6	393.7	348.0	302.4	251.7	197.7	152.1
62.5°	702.8	645.4	588.0	530.5	479.8	430.8	381.8	331.1	275.4	218.0	163.9
60°	780.6	714.7	648.8	584.6	522.1	468.0	413.9	359.9	300.7	236.5	175.7
57.5°	866.7	787.3	713.0	640.3	569.4	505.2	446.0	388.6	322.7	255.1	189.2
55°	964.7	866.7	778.9	697.8	620.1	542.3	478.1	419.0	348.0	273.7	204.4
52.5°	1067.8	954.6	848.1	756.9	674.1	586.3	508.6	442.7	373.4	292.3	218.0
50°	1187.7	1044.1	925.9	814.4	721.4	630.2	540.7	469.7	398.7	314.3	231.5
47.5°	1311.1	1152.3	1003.6	881.9	772.1	672.4	577.8	493.3	422.4	334.5	245.0
45°	1454.7	1255.3	1091.4	947.8	821.1	716.4	615.0	518.7	442.7	354.8	258.5
42.5°	1593.2	1377.0	1182.7	1020.5	876.9	758.6	648.8	545.7	462.9	375.1	270.3
40°	1757.1	1498.6	1270.5	1089.8	932.6	799.2	682.6	574.4	481.5	393.7	282.2
37.5°	1914.2	1622.0	1377.0	1165.8	986.7	839.7	716.4	601.5	498.4	412.2	297.4
35°	2069.7	1758.8	1478.3	1236.7	1042.4	885.3	750.2	626.8	515.3	427.5	310.9
32.5°	2218.4	1887.2	1581.4	1316.2	1103.3	927.6	780.6	650.5	532.2	441.0	324.4
30°	2356.9	2008.9	1682.8	1397.2	1159.0	966.4	809.3	674.1	552.5	452.8	337.9
27.5°	2483.6	2127.1	1784.2	1473.3	1211.4	1001.9	839.7	696.1	569.4	464.6	349.7
25°	2598.5	2233.6	1877.1	1542.5	1258.7	1040.8	868.4	718.1	584.6	474.8	359.9
22.5°	2706.6	2331.6	1961.6	1611.8	1316.2	1079.6	895.5	738.3	599.8	484.9	370.0
20°	2801.3	2421.1	2042.7	1681.1	1366.8	1115.1	919.1	756.9	613.3	491.7	380.1
17.5°	2877.3	2500.5	2115.3	1741.9	1410.8	1145.5	939.4	773.8	625.1	500.1	386.9
15°	2944.9	2568.1	2176.1	1794.3	1449.6	1170.9	958.0	787.3	635.3	505.2	395.4
12.5°	3002.3	2625.5	2228.5	1839.9	1483.4	1192.8	973.2	797.5	643.7	510.2	400.4
10°	3049.6	2671.2	2272.4	1875.4	1510.4	1209.7	985.0	807.6	650.5	515.3	405.5
7.5°	3085.1	2705.0	2304.5	1905.8	1532.4	1221.5	995.1	814.4	657.2	518.7	413.9
5°	3112.1	2733.7	2329.9	1926.1	1549.3	1238.4	1007.0	822.8	664.0	522.1	413.9
2.5°	3132.4	2757.3	2350.1	1943.0	1562.8	1235.1	1007.0	821.1	664.0	522.1	412.2
0°	3129.0	2759.0	2348.5	1943.0	1562.8	1231.7	1007.0	819.4	664.0	522.1	412.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.8	8.4	3.4	0.0
85°	25.3	16.9	8.4	0.0
82.5°	37.2	23.7	11.8	0.0
80°	49.0	32.1	15.2	0.0
77.5°	62.5	40.5	20.3	0.0
75°	74.3	47.3	23.7	0.0
72.5°	86.2	55.8	27.0	0.0
70°	96.3	62.5	30.4	0.0
67.5°	106.4	71.0	35.5	0.0
65°	114.9	77.7	38.9	0.0
62.5°	121.6	86.2	42.2	0.0
60°	130.1	92.9	45.6	0.0
57.5°	136.9	98.0	49.0	0.0
55°	143.6	101.4	52.4	0.0
52.5°	150.4	106.4	55.8	0.0
50°	157.1	111.5	59.1	0.0
47.5°	163.9	114.9	60.8	0.0
45°	174.0	120.0	64.2	0.0
42.5°	182.5	123.3	67.6	0.0
40°	190.9	126.7	69.3	0.0
37.5°	199.4	130.1	72.7	0.0
35°	207.8	133.5	74.3	0.0
32.5°	214.6	136.9	76.0	0.0
30°	221.3	140.2	77.7	0.0
27.5°	228.1	141.9	79.4	0.0
25°	233.2	145.3	81.1	0.0
22.5°	238.2	147.0	82.8	0.0
20°	241.6	148.7	84.5	0.0
17.5°	246.7	150.4	86.2	0.0
15°	248.4	152.1	89.5	0.0
12.5°	251.7	153.7	89.5	0.0
10°	253.4	155.4	89.5	0.0
7.5°	256.8	155.4	89.5	0.0
5°	255.1	155.4	89.5	0.0
2.5°	255.1	155.4	89.5	0.0
0°	253.4	155.4	89.5	0.0

(END OF REPORT)