

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: P628329

Luminaire Tested: **IFLD-S-SA3A-760-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628329
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-760-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

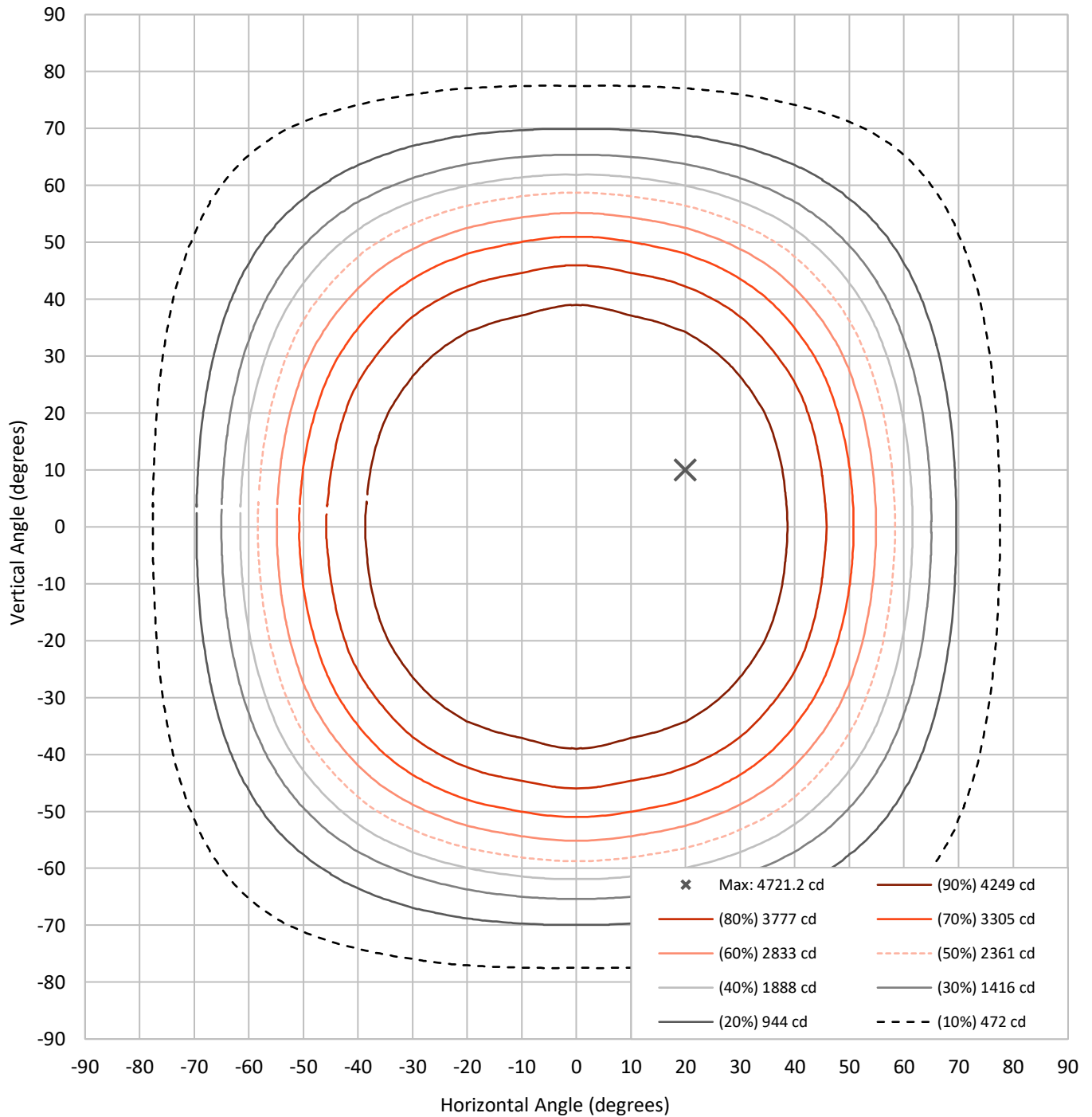
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14484.1 lumens	Max Intensity:	4721.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	152.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8887.8 lumens	Field Lumens:	10654.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 94.8
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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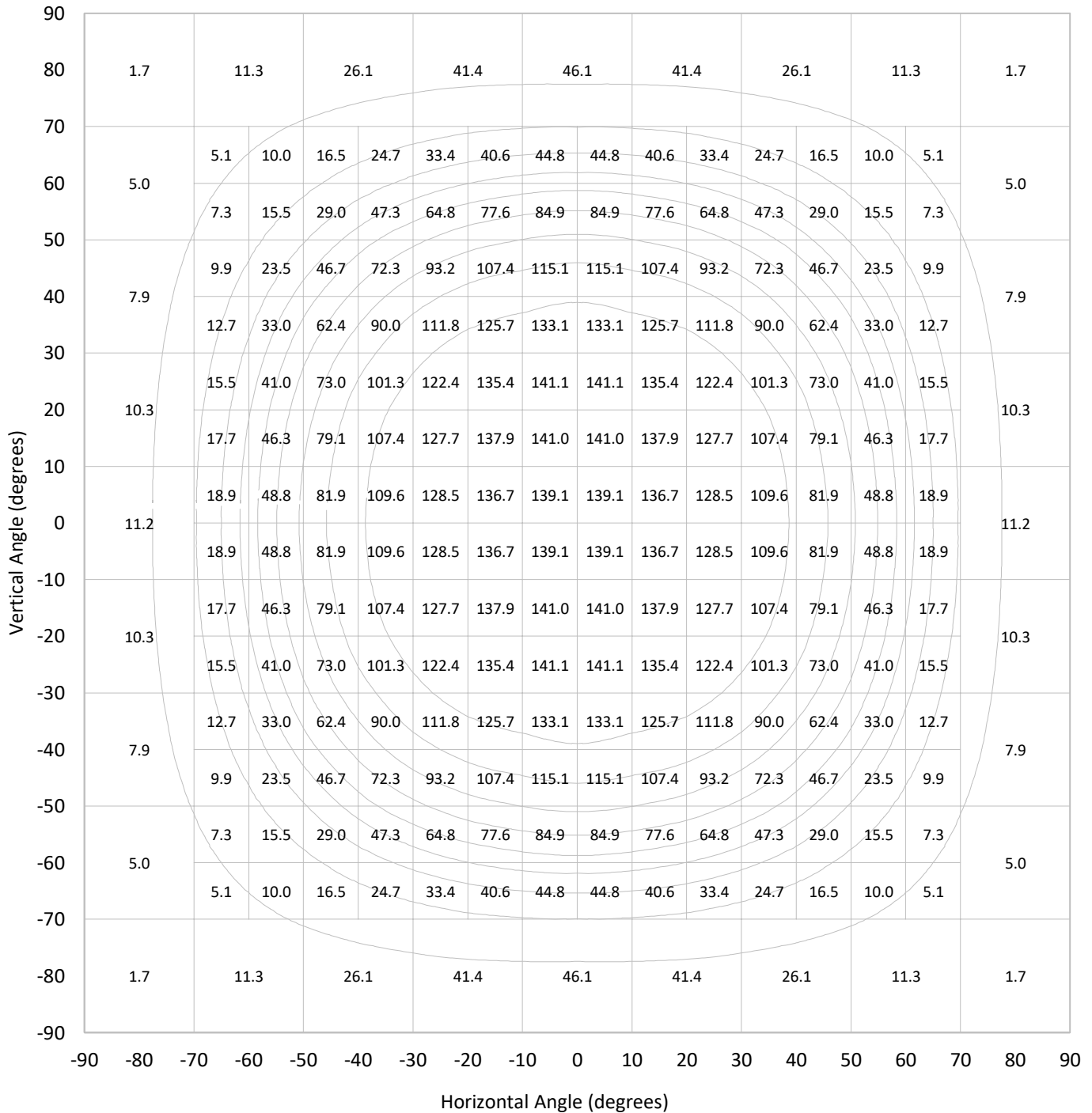
Iso-Candela Plot





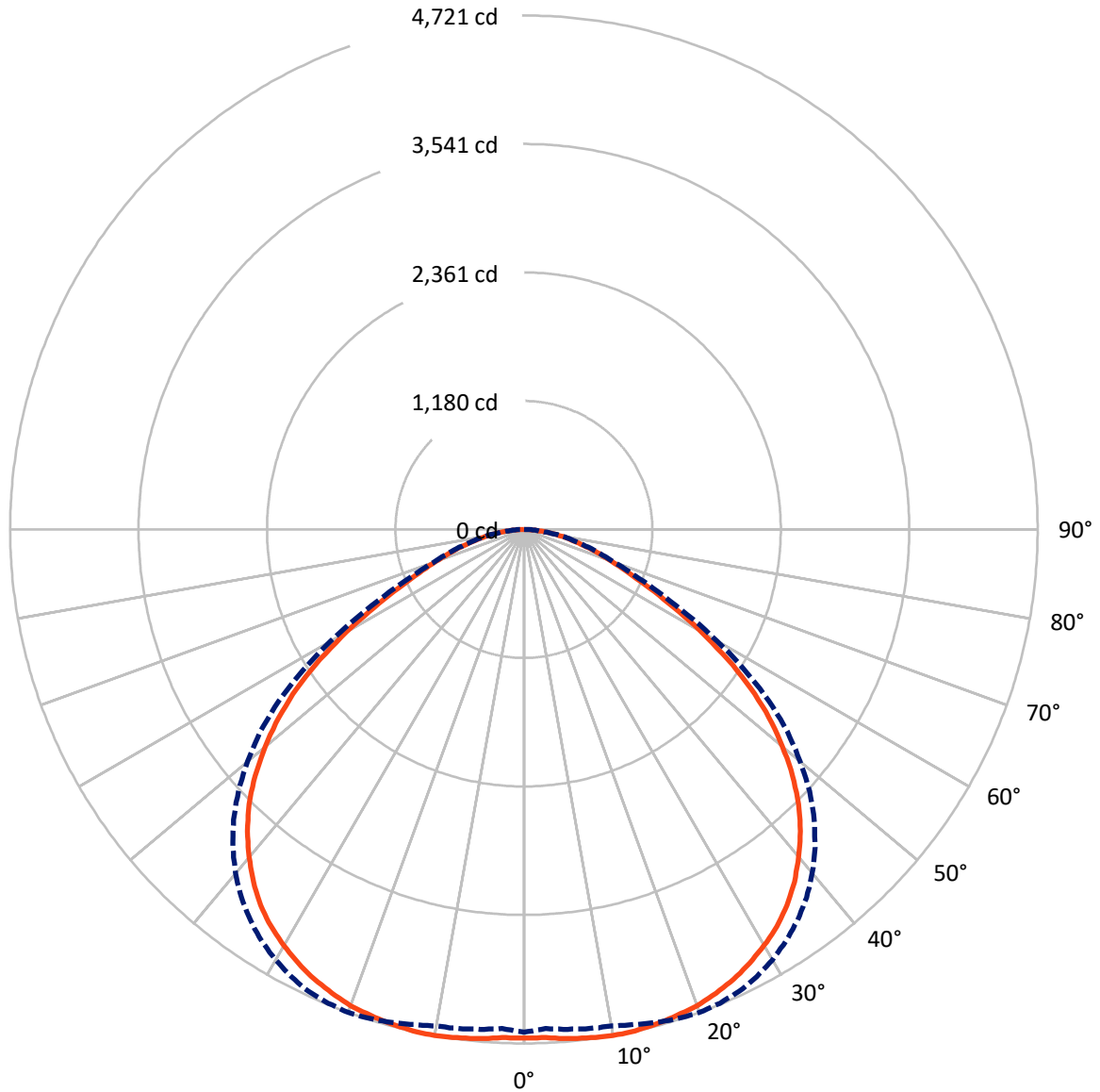
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Lumen Table



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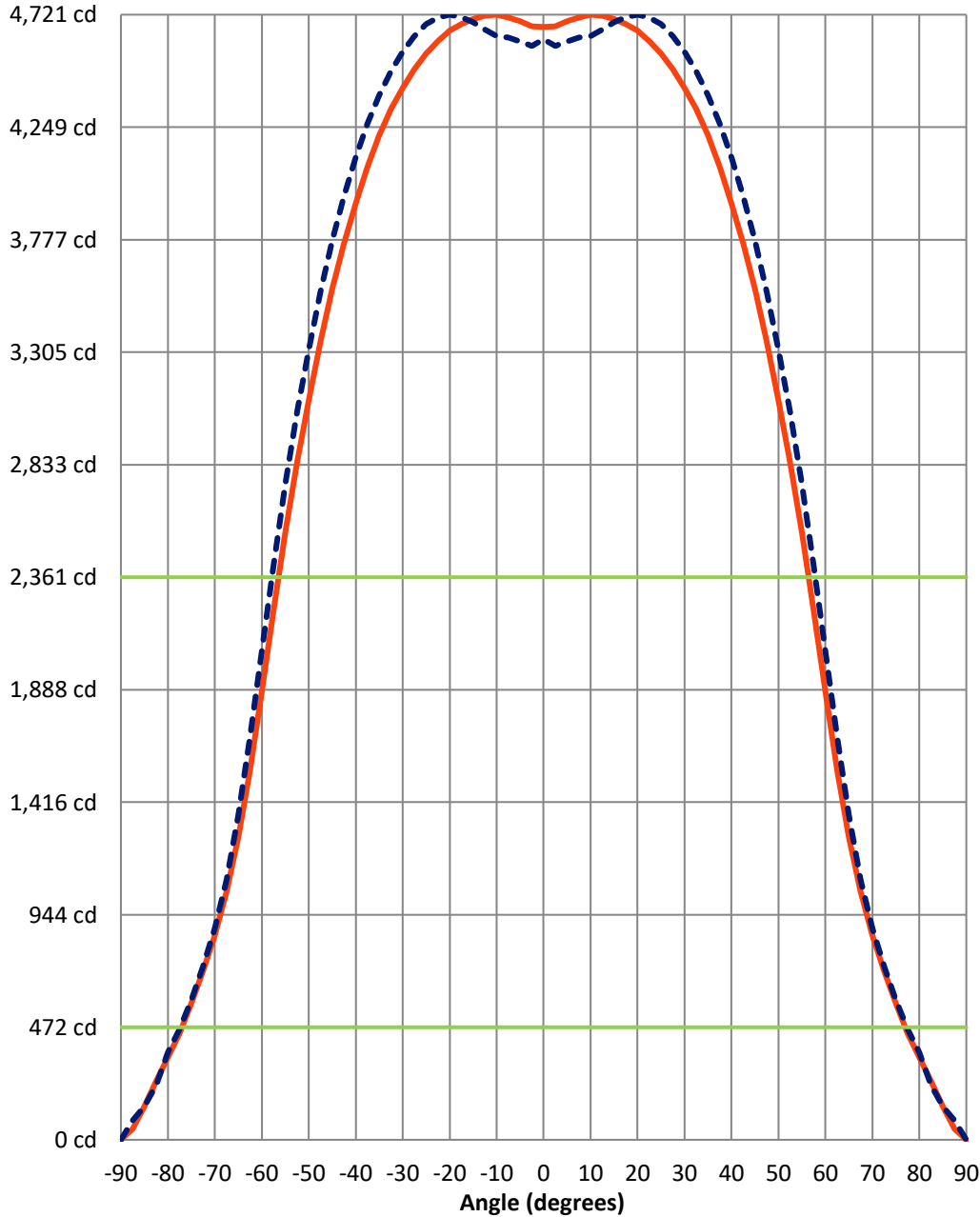
Luminous Intensity Polar Plot



— 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: 8887.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10654.9
 Efficiency: 73.6%

Spill:
 Lumens: 3829.2
 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	42.7	44.2	45.7	47.2	48.8	47.2	45.7	45.7	44.2
85°	102.1	105.2	106.7	117.3	128.0	134.1	141.7	140.2	140.2	138.7	137.2
82.5°	204.2	213.4	221.0	231.6	237.7	246.9	253.0	248.4	245.4	239.3	234.7
80°	362.7	365.8	367.3	368.8	361.2	359.7	356.6	352.0	345.9	338.3	330.7
77.5°	461.8	464.8	467.9	464.8	463.3	461.8	457.2	452.6	446.5	440.4	431.3
75°	611.1	611.1	611.1	606.5	603.5	598.9	591.3	583.7	573.0	560.8	547.1
72.5°	769.6	768.1	766.6	757.4	749.8	740.6	730.0	720.8	708.6	694.9	676.6
70°	935.7	938.8	940.3	928.1	919.0	906.8	893.0	876.3	858.0	838.2	812.3
67.5°	1164.3	1161.3	1158.2	1141.5	1129.3	1112.5	1092.7	1068.3	1040.9	1010.4	973.8
65°	1447.8	1452.3	1443.2	1426.4	1403.6	1376.1	1345.7	1310.6	1269.5	1223.7	1171.9
62.5°	1790.7	1798.3	1787.6	1766.3	1737.3	1700.7	1658.1	1607.8	1551.4	1487.4	1423.4
60°	2180.8	2179.3	2159.5	2130.5	2092.4	2046.7	1999.4	1944.6	1880.6	1805.9	1728.2
57.5°	2538.9	2535.9	2511.5	2482.5	2444.4	2395.7	2345.4	2287.5	2220.4	2141.2	2051.3
55°	2860.5	2857.4	2833.1	2802.6	2762.9	2714.2	2668.5	2613.6	2548.1	2464.3	2368.2
52.5°	3145.5	3147.0	3125.7	3092.1	3049.5	3002.2	2958.0	2903.2	2840.7	2756.9	2663.9
50°	3407.6	3406.1	3383.2	3352.7	3313.1	3267.4	3223.2	3168.3	3102.8	3022.0	2932.1
47.5°	3651.4	3648.4	3622.5	3588.9	3547.8	3508.2	3467.0	3418.3	3349.7	3268.9	3179.0
45°	3855.6	3849.5	3823.6	3791.6	3752.0	3717.0	3680.4	3643.8	3570.7	3496.0	3410.6
42.5°	4030.9	4029.4	4003.5	3971.5	3931.8	3901.4	3867.8	3822.1	3761.1	3692.6	3608.8
40°	4198.5	4186.3	4160.4	4129.9	4093.4	4067.5	4033.9	3988.2	3928.8	3861.7	3781.0
37.5°	4323.5	4325.0	4297.6	4264.1	4232.1	4207.7	4177.2	4134.5	4082.7	4017.2	3936.4
35°	4442.4	4434.7	4411.9	4382.9	4354.0	4326.5	4294.5	4258.0	4215.3	4154.3	4078.1
32.5°	4520.1	4530.7	4503.3	4472.8	4456.1	4434.7	4401.2	4363.1	4325.0	4264.1	4195.5
30°	4605.4	4596.3	4574.9	4549.0	4536.8	4523.1	4494.2	4457.6	4413.4	4358.5	4294.5
27.5°	4664.9	4660.3	4634.4	4610.0	4603.9	4591.7	4568.8	4536.8	4492.7	4439.3	4379.9
25°	4690.8	4693.8	4669.4	4655.7	4655.7	4648.1	4629.8	4602.4	4558.2	4509.4	4451.5
22.5°	4703.0	4699.9	4683.1	4680.1	4687.7	4681.6	4674.0	4649.6	4610.0	4570.4	4521.6
20°	4710.6	4689.2	4674.0	4686.2	4695.3	4693.8	4687.7	4672.5	4654.2	4620.7	4578.0
17.5°	4693.8	4680.1	4661.8	4680.1	4699.9	4701.4	4695.3	4686.2	4681.6	4660.3	4622.2
15°	4652.7	4642.0	4645.0	4663.3	4686.2	4693.8	4698.4	4709.1	4703.0	4686.2	4652.7
12.5°	4625.2	4611.5	4625.2	4643.5	4655.7	4660.3	4696.9	4716.7	4716.7	4701.4	4680.1
10°	4617.6	4590.2	4608.5	4625.2	4631.3	4658.8	4689.2	4710.6	4721.2	4709.1	4681.6
7.5°	4602.4	4584.1	4591.7	4599.3	4634.4	4654.2	4671.0	4693.8	4709.1	4707.5	4683.1
5°	4594.8	4571.9	4574.9	4606.9	4631.3	4645.0	4651.1	4671.0	4693.8	4698.4	4680.1
2.5°	4574.9	4564.3	4587.1	4590.2	4608.5	4619.1	4625.2	4643.5	4672.5	4683.1	4675.5
0°	4564.3	4549.0	4533.8	4546.0	4576.5	4599.3	4608.5	4635.9	4669.4	4680.1	4663.3



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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°	42.7	41.1	39.6	38.1	39.6	39.6	39.6	38.1	39.6	38.1	38.1
85°	132.6	126.5	121.9	115.8	109.7	105.2	99.1	93.0	91.4	89.9	86.9
82.5°	228.6	221.0	213.4	204.2	195.1	184.4	173.7	161.5	158.5	155.4	150.9
80°	321.6	310.9	300.2	289.6	280.4	269.7	257.6	243.8	234.7	227.1	217.9
77.5°	419.1	403.9	388.6	370.3	359.7	349.0	336.8	323.1	309.4	297.2	283.5
75°	530.3	513.6	498.3	480.0	460.2	440.4	420.6	402.3	382.5	364.2	345.9
72.5°	653.8	629.4	605.0	582.2	557.8	533.4	507.5	483.1	458.7	434.3	408.4
70°	783.3	752.8	722.4	691.9	659.9	627.9	597.4	566.9	536.4	504.4	475.5
67.5°	935.7	900.7	861.0	818.4	771.1	730.0	690.4	653.8	617.2	580.6	544.1
65°	1126.2	1077.4	1024.1	966.2	911.3	856.5	798.6	743.7	701.0	658.4	617.2
62.5°	1360.9	1292.3	1217.6	1143.0	1075.9	1004.3	937.2	865.6	798.6	737.6	687.3
60°	1641.3	1548.3	1456.9	1360.9	1267.9	1170.4	1085.1	996.7	912.9	838.2	765.0
57.5°	1950.7	1842.5	1732.7	1615.4	1488.9	1374.6	1258.8	1143.0	1043.9	944.9	862.6
55°	2264.6	2150.3	2026.9	1894.3	1755.6	1609.3	1452.3	1322.8	1187.2	1071.3	964.7
52.5°	2563.3	2444.4	2316.4	2194.5	2028.4	1860.8	1688.6	1517.9	1359.4	1211.6	1082.0
50°	2830.0	2714.2	2590.7	2449.0	2295.1	2116.8	1924.8	1732.7	1545.3	1371.6	1210.0
47.5°	3073.8	2961.1	2837.6	2695.9	2555.7	2357.6	2164.0	1952.2	1743.4	1543.8	1354.8
45°	3302.4	3188.1	3060.1	2924.5	2762.9	2586.2	2386.5	2173.2	1949.2	1725.1	1507.2
42.5°	3509.7	3395.4	3265.9	3125.7	2965.6	2790.4	2596.8	2382.0	2156.4	1912.6	1673.3
40°	3691.0	3579.8	3454.8	3308.5	3159.2	2974.8	2784.3	2580.1	2346.9	2101.5	1837.9
37.5°	3849.5	3745.9	3622.5	3477.7	3319.2	3154.6	2958.0	2753.8	2543.5	2276.8	2007.1
35°	3989.7	3893.7	3767.2	3630.1	3474.6	3300.9	3116.5	2916.9	2689.8	2439.9	2177.7
32.5°	4111.7	4014.1	3898.3	3761.1	3610.3	3447.2	3258.2	3057.1	2842.2	2587.7	2302.7
30°	4215.3	4120.8	4011.1	3881.5	3736.8	3575.2	3390.8	3188.1	2968.7	2715.7	2433.8
27.5°	4305.2	4215.3	4108.6	3988.2	3849.5	3694.1	3508.2	3304.0	3079.9	2836.1	2554.2
25°	4382.9	4296.1	4197.0	4082.7	3945.5	3793.2	3617.9	3404.5	3180.5	2935.2	2656.3
22.5°	4453.0	4369.2	4270.2	4158.9	4033.9	3881.5	3704.8	3492.9	3265.9	3023.5	2749.2
20°	4515.5	4437.8	4340.3	4226.0	4101.0	3947.1	3771.8	3570.7	3342.1	3104.3	2833.1
17.5°	4565.8	4497.2	4399.7	4279.3	4154.3	4005.0	3834.3	3649.9	3407.6	3172.9	2903.2
15°	4600.9	4533.8	4445.4	4323.5	4201.6	4053.7	3883.1	3692.6	3467.0	3227.8	2961.1
12.5°	4625.2	4553.6	4471.3	4358.5	4236.6	4090.3	3924.2	3736.8	3517.3	3276.5	3011.4
10°	4631.3	4565.8	4483.5	4382.9	4264.1	4122.3	3959.3	3773.3	3558.5	3314.6	3052.5
7.5°	4634.4	4571.9	4497.2	4401.2	4283.9	4146.7	3985.2	3802.3	3588.9	3346.6	3083.0
5°	4632.9	4573.4	4506.4	4413.4	4296.1	4160.4	4001.9	3822.1	3610.3	3368.0	3105.8
2.5°	4628.3	4574.9	4512.5	4422.5	4309.8	4175.7	4018.7	3845.0	3633.1	3386.3	3124.1
0°	4640.5	4594.8	4515.5	4419.5	4312.8	4175.7	4017.2	3848.0	3636.2	3384.7	3122.6



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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°	38.1	36.6	36.6	35.1	33.5	32.0	29.0	27.4	24.4	19.8	15.2
85°	82.3	77.7	73.2	70.1	67.1	64.0	59.4	54.9	48.8	39.6	30.5
82.5°	144.8	135.6	126.5	115.8	106.7	97.5	89.9	82.3	73.2	59.4	45.7
80°	207.3	193.5	179.8	164.6	150.9	135.6	121.9	109.7	97.5	79.2	61.0
77.5°	269.7	251.5	231.6	213.4	193.5	173.7	153.9	137.2	118.9	97.5	76.2
75°	327.7	306.3	288.0	262.1	237.7	211.8	185.9	163.1	140.2	114.3	91.4
72.5°	385.6	358.1	332.2	307.8	280.4	248.4	219.5	190.5	161.5	131.1	103.6
70°	443.5	409.9	377.9	349.0	318.5	286.5	251.5	217.9	182.9	146.3	114.3
67.5°	502.9	464.8	428.2	391.7	356.6	320.0	283.5	245.4	204.2	161.5	126.5
65°	568.4	521.2	477.0	435.9	394.7	355.1	313.9	272.8	227.1	178.3	137.2
62.5°	634.0	582.2	530.3	478.5	432.8	388.6	344.4	298.7	248.4	196.6	147.8
60°	704.1	644.6	585.2	527.3	470.9	422.1	373.4	324.6	271.3	213.4	158.5
57.5°	781.8	710.2	643.1	577.6	513.6	455.7	402.3	350.5	291.1	230.1	170.7
55°	870.2	781.8	702.5	629.4	559.3	489.2	431.3	377.9	313.9	246.9	184.4
52.5°	963.1	861.0	765.0	682.7	608.1	528.8	458.7	399.3	336.8	263.6	196.6
50°	1071.3	941.8	835.1	734.6	650.7	568.4	487.7	423.7	359.7	283.5	208.8
47.5°	1182.6	1039.3	905.2	795.5	696.5	606.5	521.2	445.0	381.0	301.7	221.0
45°	1312.1	1132.3	984.5	854.9	740.6	646.2	554.7	467.9	399.3	320.0	233.2
42.5°	1437.1	1242.0	1066.8	920.5	790.9	684.3	585.2	492.2	417.6	338.3	243.8
40°	1584.9	1351.8	1146.0	983.0	841.2	720.8	615.7	518.1	434.3	355.1	254.5
37.5°	1726.7	1463.0	1242.0	1051.5	890.0	757.4	646.2	542.5	449.6	371.8	268.2
35°	1866.9	1586.4	1333.5	1115.5	940.3	798.6	676.6	565.4	464.8	385.6	280.4
32.5°	2001.0	1702.3	1426.4	1187.2	995.1	836.7	704.1	586.7	480.0	397.8	292.6
30°	2125.9	1812.0	1517.9	1260.3	1045.4	871.7	730.0	608.1	498.3	408.4	304.8
27.5°	2240.2	1918.7	1609.3	1328.9	1092.7	903.7	757.4	627.9	513.6	419.1	315.5
25°	2343.9	2014.7	1693.1	1391.4	1135.4	938.8	783.3	647.7	527.3	428.2	324.6
22.5°	2441.4	2103.1	1769.3	1453.9	1187.2	973.8	807.7	666.0	541.0	437.4	333.7
20°	2526.7	2183.8	1842.5	1516.3	1232.9	1005.8	829.0	682.7	553.2	443.5	342.9
17.5°	2595.3	2255.5	1908.0	1571.2	1272.5	1033.2	847.3	698.0	563.9	451.1	349.0
15°	2656.3	2316.4	1962.9	1618.5	1307.6	1056.1	864.1	710.2	573.0	455.7	356.6
12.5°	2708.1	2368.2	2010.1	1659.6	1338.0	1075.9	877.8	719.3	580.6	460.2	361.2
10°	2750.8	2409.4	2049.7	1691.6	1362.4	1091.2	888.5	728.5	586.7	464.8	365.8
7.5°	2782.8	2439.9	2078.7	1719.0	1382.2	1101.8	897.6	734.6	592.8	467.9	373.4
5°	2807.1	2465.8	2101.5	1737.3	1397.5	1117.1	908.3	742.2	598.9	470.9	373.4
2.5°	2825.4	2487.1	2119.8	1752.6	1409.7	1114.0	908.3	740.6	598.9	470.9	371.8
0°	2822.4	2488.6	2118.3	1752.6	1409.7	1111.0	908.3	739.1	598.9	470.9	371.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.7	7.6	3.0	0.0
85°	22.9	15.2	7.6	0.0
82.5°	33.5	21.3	10.7	0.0
80°	44.2	29.0	13.7	0.0
77.5°	56.4	36.6	18.3	0.0
75°	67.1	42.7	21.3	0.0
72.5°	77.7	50.3	24.4	0.0
70°	86.9	56.4	27.4	0.0
67.5°	96.0	64.0	32.0	0.0
65°	103.6	70.1	35.1	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	88.4	44.2	0.0
55°	129.5	91.4	47.2	0.0
52.5°	135.6	96.0	50.3	0.0
50°	141.7	100.6	53.3	0.0
47.5°	147.8	103.6	54.9	0.0
45°	157.0	108.2	57.9	0.0
42.5°	164.6	111.2	61.0	0.0
40°	172.2	114.3	62.5	0.0
37.5°	179.8	117.3	65.5	0.0
35°	187.4	120.4	67.1	0.0
32.5°	193.5	123.4	68.6	0.0
30°	199.6	126.5	70.1	0.0
27.5°	205.7	128.0	71.6	0.0
25°	210.3	131.1	73.2	0.0
22.5°	214.9	132.6	74.7	0.0
20°	217.9	134.1	76.2	0.0
17.5°	222.5	135.6	77.7	0.0
15°	224.0	137.2	80.8	0.0
12.5°	227.1	138.7	80.8	0.0
10°	228.6	140.2	80.8	0.0
7.5°	231.6	140.2	80.8	0.0
5°	230.1	140.2	80.8	0.0
2.5°	230.1	140.2	80.8	0.0
0°	228.6	140.2	80.8	0.0

(END OF REPORT)