

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: P628214

Luminaire Tested: **IFLD-S-SA3B-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628214
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

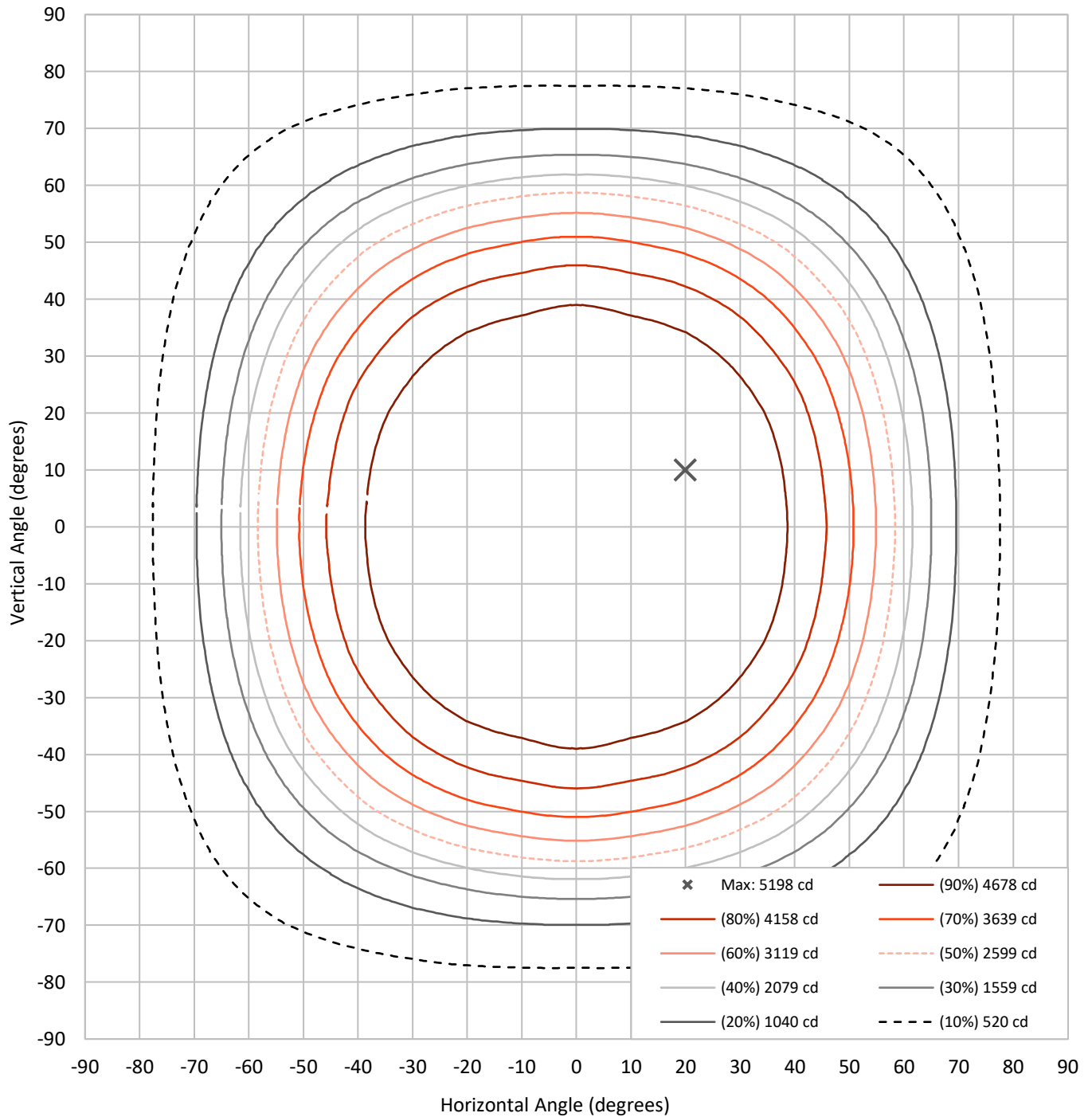
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15946.6 lumens	Max Intensity:	5198 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	130.3 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:	9785.2 lumens	Field Lumens:	11730.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	122.4		
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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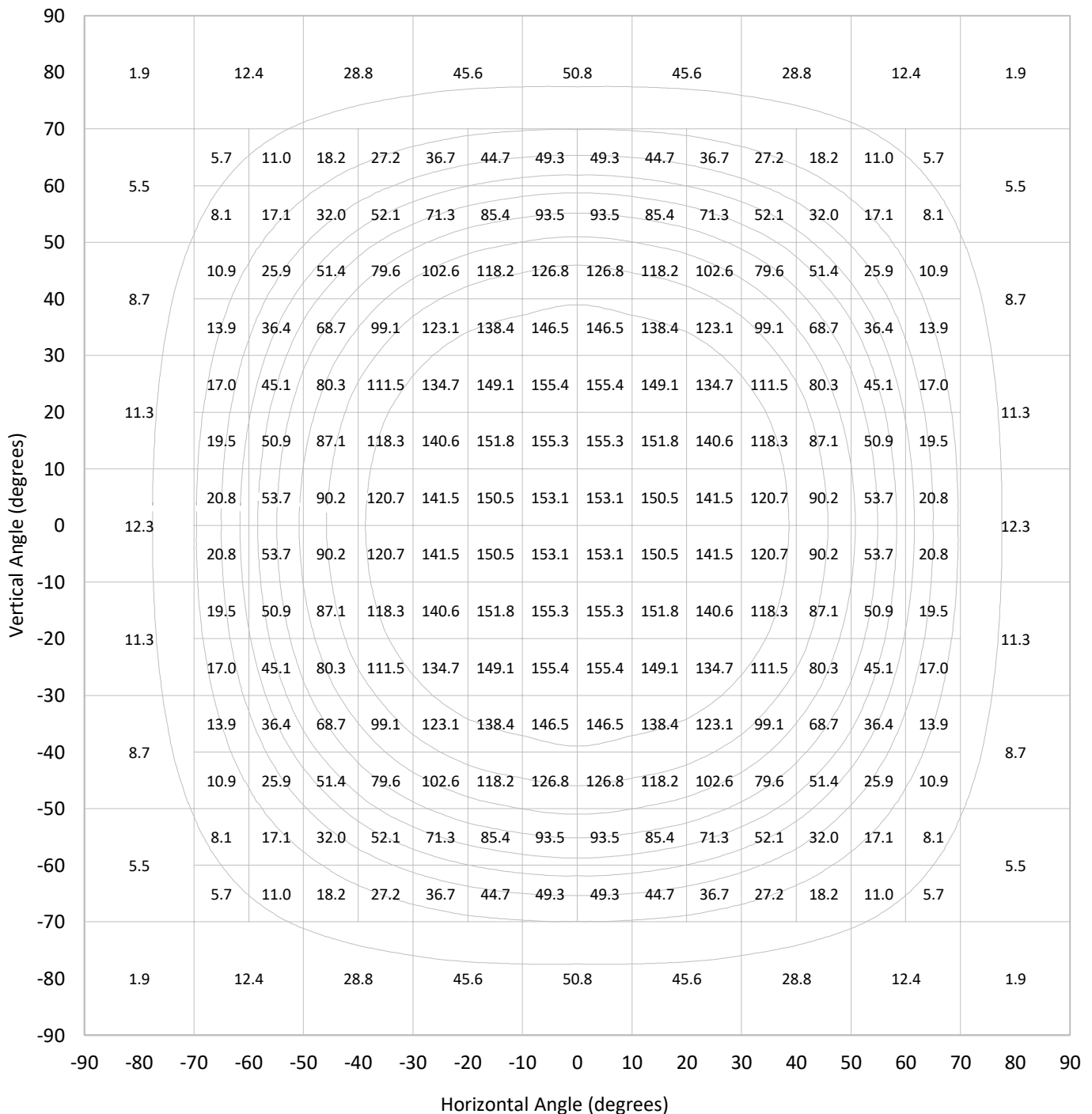
Iso-Candela Plot





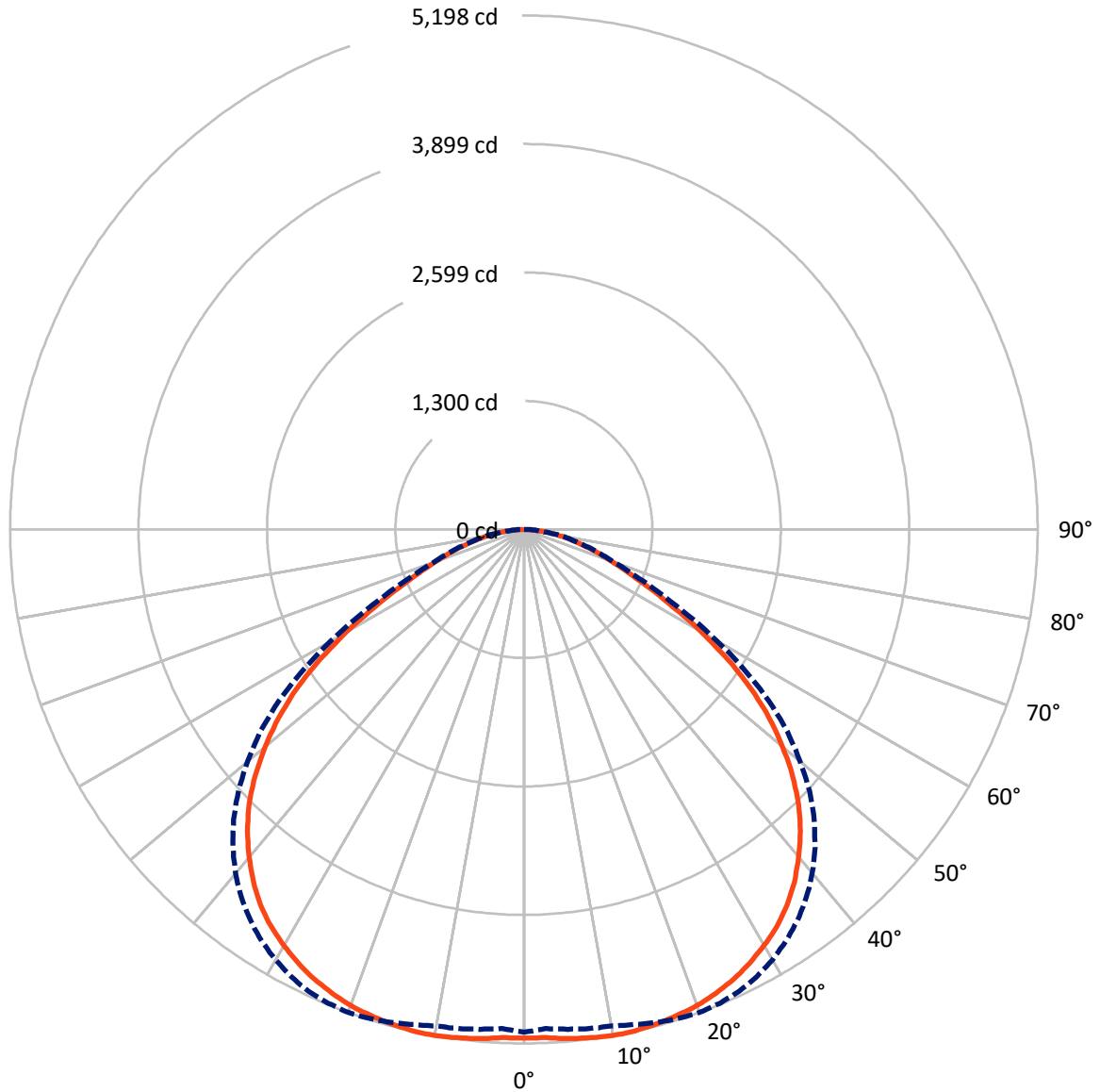
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Lumen Table



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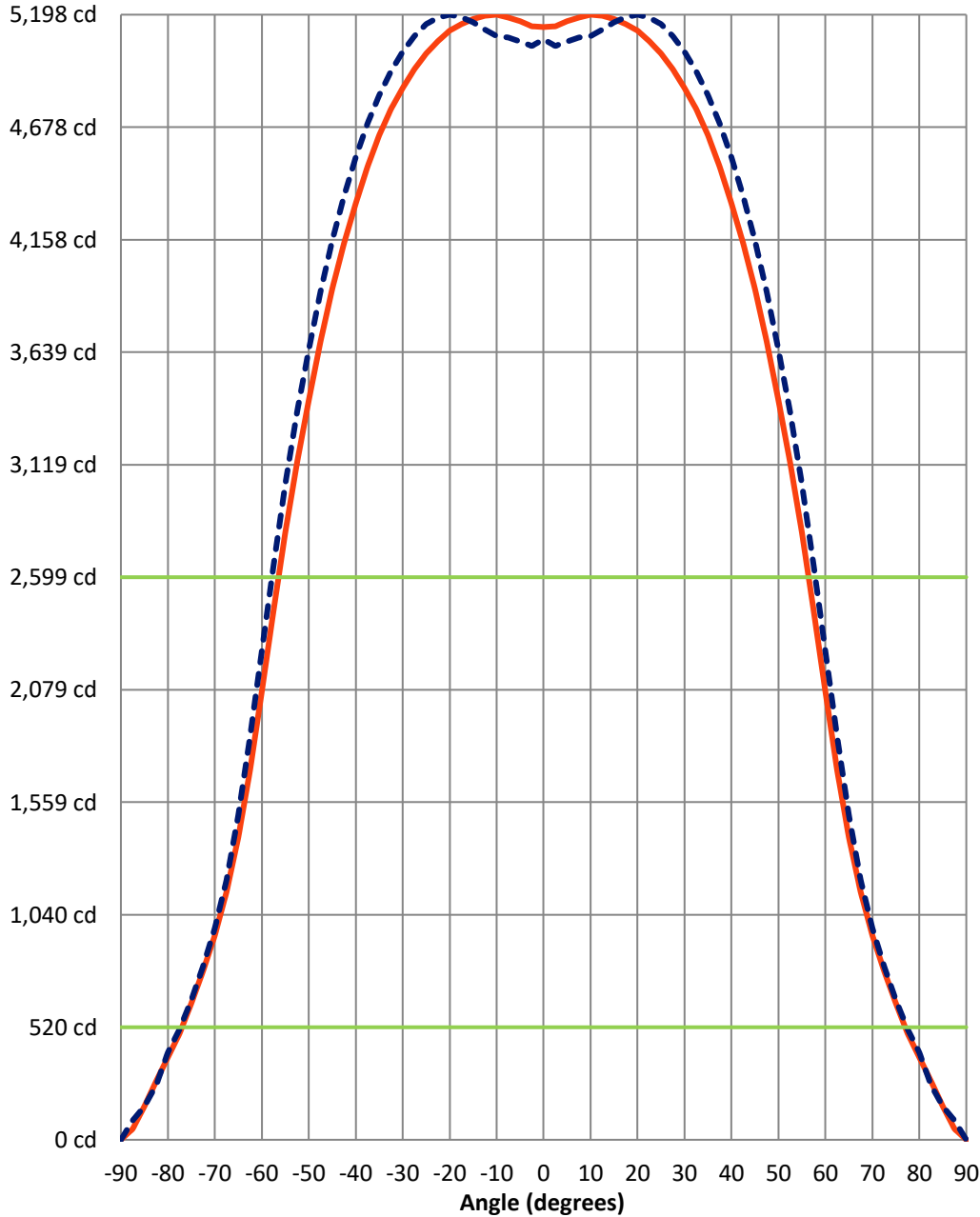
Luminous Intensity Polar Plot



— 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: 9785.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 11730.8
 Efficiency: 73.6%

Spill:
 Lumens: 4215.9
 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°	41.9	45.3	47.0	48.7	50.3	52.0	53.7	52.0	50.3	50.3	48.7
85°	112.4	115.8	117.4	129.2	140.9	147.7	156.0	154.4	154.4	152.7	151.0
82.5°	224.8	234.9	243.3	255.0	261.7	271.8	278.5	273.5	270.1	263.4	258.4
80°	399.3	402.7	404.4	406.0	397.6	396.0	392.6	387.6	380.9	372.5	364.1
77.5°	508.4	511.7	515.1	511.7	510.1	508.4	503.4	498.3	491.6	484.9	474.8
75°	672.8	672.8	672.8	667.8	664.4	659.4	651.0	642.6	630.9	617.4	602.3
72.5°	847.3	845.6	844.0	833.9	825.5	815.4	803.7	793.6	780.2	765.1	745.0
70°	1030.2	1033.6	1035.2	1021.8	1011.7	998.3	983.2	964.8	944.6	922.8	894.3
67.5°	1281.9	1278.5	1275.2	1256.7	1243.3	1224.8	1203.0	1176.2	1146.0	1112.4	1072.1
65°	1594.0	1599.0	1588.9	1570.5	1545.3	1515.1	1481.5	1442.9	1397.6	1347.3	1290.3
62.5°	1971.5	1979.9	1968.1	1944.6	1912.7	1872.5	1825.5	1770.1	1708.0	1637.6	1567.1
60°	2401.0	2399.3	2377.5	2345.6	2303.7	2253.3	2201.3	2140.9	2070.5	1988.2	1902.7
57.5°	2795.3	2791.9	2765.1	2733.2	2691.3	2637.6	2582.2	2518.4	2444.6	2357.4	2258.4
55°	3149.3	3146.0	3119.1	3085.6	3041.9	2988.2	2937.9	2877.5	2805.4	2713.1	2607.4
52.5°	3463.1	3464.7	3441.3	3404.3	3357.4	3305.4	3256.7	3196.3	3127.5	3035.2	2932.9
50°	3751.7	3750.0	3724.8	3691.3	3647.6	3597.3	3548.6	3488.2	3416.1	3327.2	3228.2
47.5°	4020.1	4016.8	3988.2	3951.3	3906.0	3862.4	3817.1	3763.4	3687.9	3599.0	3500.0
45°	4244.9	4238.2	4209.7	4174.5	4130.9	4092.3	4052.0	4011.7	3931.2	3849.0	3755.0
42.5°	4437.9	4436.2	4407.7	4372.5	4328.8	4295.3	4258.4	4208.0	4140.9	4065.4	3973.1
40°	4622.5	4609.0	4580.5	4547.0	4506.7	4478.2	4441.3	4390.9	4325.5	4251.7	4162.7
37.5°	4760.0	4761.7	4731.5	4694.6	4659.4	4632.5	4599.0	4552.0	4494.9	4422.8	4333.9
35°	4890.9	4882.5	4857.4	4825.5	4793.6	4763.4	4728.2	4687.9	4640.9	4573.8	4489.9
32.5°	4976.5	4988.2	4958.0	4924.5	4906.0	4882.5	4845.6	4803.7	4761.7	4694.6	4619.1
30°	5070.4	5060.4	5036.9	5008.4	4994.9	4979.8	4948.0	4907.7	4859.0	4798.6	4728.2
27.5°	5135.9	5130.8	5102.3	5075.5	5068.8	5055.3	5030.2	4994.9	4946.3	4887.6	4822.1
25°	5164.4	5167.8	5140.9	5125.8	5125.8	5117.4	5097.3	5067.1	5018.4	4964.7	4901.0
22.5°	5177.8	5174.5	5156.0	5152.7	5161.1	5154.3	5145.9	5119.1	5075.5	5031.9	4978.2
20°	5186.2	5162.7	5145.9	5159.4	5169.4	5167.8	5161.1	5144.3	5124.1	5087.2	5040.2
17.5°	5167.8	5152.7	5132.5	5152.7	5174.5	5176.2	5169.4	5159.4	5154.3	5130.8	5088.9
15°	5122.5	5110.7	5114.1	5134.2	5159.4	5167.8	5172.8	5184.5	5177.8	5159.4	5122.5
12.5°	5092.3	5077.2	5092.3	5112.4	5125.8	5130.8	5171.1	5192.9	5192.9	5176.2	5152.7
10°	5083.9	5053.7	5073.8	5092.3	5099.0	5129.2	5162.7	5186.2	5198.0	5184.5	5154.3
7.5°	5067.1	5047.0	5055.3	5063.7	5102.3	5124.1	5142.6	5167.8	5184.5	5182.9	5156.0
5°	5058.7	5033.5	5036.9	5072.1	5099.0	5114.1	5120.8	5142.6	5167.8	5172.8	5152.7
2.5°	5036.9	5025.1	5050.3	5053.7	5073.8	5085.5	5092.3	5112.4	5144.3	5156.0	5147.6
0°	5025.1	5008.4	4991.6	5005.0	5038.6	5063.7	5073.8	5104.0	5140.9	5152.7	5134.2



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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°	47.0	45.3	43.6	41.9	43.6	43.6	43.6	41.9	43.6	41.9	41.9
85°	146.0	139.3	134.2	127.5	120.8	115.8	109.1	102.3	100.7	99.0	95.6
82.5°	251.7	243.3	234.9	224.8	214.8	203.0	191.3	177.9	174.5	171.1	166.1
80°	354.0	342.3	330.5	318.8	308.7	297.0	283.6	268.5	258.4	250.0	239.9
77.5°	461.4	444.6	427.9	407.7	396.0	384.2	370.8	355.7	340.6	327.2	312.1
75°	583.9	565.4	548.7	528.5	506.7	484.9	463.1	443.0	421.1	401.0	380.9
72.5°	719.8	692.9	666.1	640.9	614.1	587.2	558.7	531.9	505.0	478.2	449.7
70°	862.4	828.9	795.3	761.7	726.5	691.3	657.7	624.2	590.6	555.4	523.5
67.5°	1030.2	991.6	948.0	901.0	849.0	803.7	760.1	719.8	679.5	639.3	599.0
65°	1239.9	1186.2	1127.5	1063.8	1003.4	942.9	879.2	818.8	771.8	724.8	679.5
62.5°	1498.3	1422.8	1340.6	1258.4	1184.6	1105.7	1031.9	953.0	879.2	812.1	756.7
60°	1807.0	1704.7	1604.0	1498.3	1396.0	1288.6	1194.6	1097.3	1005.0	922.8	842.3
57.5°	2147.6	2028.5	1907.7	1778.5	1639.3	1513.4	1385.9	1258.4	1149.3	1040.3	949.7
55°	2493.3	2367.4	2231.5	2085.6	1932.9	1771.8	1599.0	1456.4	1307.0	1179.5	1062.1
52.5°	2822.1	2691.3	2550.3	2416.1	2233.2	2048.6	1859.1	1671.1	1496.6	1333.9	1191.3
50°	3115.8	2988.2	2852.3	2696.3	2526.8	2330.5	2119.1	1907.7	1701.3	1510.1	1332.2
47.5°	3384.2	3260.1	3124.1	2968.1	2813.7	2595.6	2382.5	2149.3	1919.5	1699.7	1491.6
45°	3635.9	3510.1	3369.1	3219.8	3041.9	2847.3	2627.5	2392.6	2146.0	1899.3	1659.4
42.5°	3864.1	3738.2	3595.6	3441.3	3265.1	3072.1	2859.0	2622.5	2374.2	2105.7	1842.3
40°	4063.7	3941.3	3803.7	3642.6	3478.2	3275.2	3065.4	2840.6	2583.9	2313.7	2023.5
37.5°	4238.2	4124.1	3988.2	3828.8	3654.3	3473.1	3256.7	3031.9	2800.3	2506.7	2209.7
35°	4392.6	4286.9	4147.6	3996.6	3825.5	3634.2	3431.2	3211.4	2961.4	2686.2	2397.6
32.5°	4526.8	4419.4	4291.9	4140.9	3974.8	3795.3	3587.2	3365.8	3129.2	2849.0	2535.2
30°	4640.9	4536.9	4416.1	4273.5	4114.1	3936.2	3733.2	3510.1	3268.4	2989.9	2679.5
27.5°	4739.9	4640.9	4523.5	4390.9	4238.2	4067.1	3862.4	3637.6	3390.9	3122.5	2812.1
25°	4825.5	4729.8	4620.8	4494.9	4343.9	4176.2	3983.2	3748.3	3501.7	3231.5	2924.5
22.5°	4902.7	4810.4	4701.3	4578.8	4441.3	4273.5	4078.8	3845.6	3595.6	3328.8	3026.8
20°	4971.5	4885.9	4778.5	4652.7	4515.1	4345.6	4152.7	3931.2	3679.5	3417.8	3119.1
17.5°	5026.8	4951.3	4843.9	4711.4	4573.8	4409.4	4221.5	4018.4	3751.7	3493.3	3196.3
15°	5065.4	4991.6	4894.3	4760.0	4625.8	4463.1	4275.1	4065.4	3817.1	3553.7	3260.1
12.5°	5092.3	5013.4	4922.8	4798.6	4664.4	4503.3	4320.5	4114.1	3872.5	3607.4	3315.4
10°	5099.0	5026.8	4936.2	4825.5	4694.6	4538.6	4359.0	4154.3	3917.8	3649.3	3360.7
7.5°	5102.3	5033.5	4951.3	4845.6	4716.4	4565.4	4387.6	4186.2	3951.3	3684.5	3394.3
5°	5100.6	5035.2	4961.4	4859.0	4729.8	4580.5	4406.0	4208.0	3974.8	3708.0	3419.4
2.5°	5095.6	5036.9	4968.1	4869.1	4744.9	4597.3	4424.5	4233.2	4000.0	3728.2	3439.6
0°	5109.0	5058.7	4971.5	4865.7	4748.3	4597.3	4422.8	4236.6	4003.3	3726.5	3437.9



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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°	41.9	40.3	40.3	38.6	36.9	35.2	31.9	30.2	26.8	21.8	16.8
85°	90.6	85.6	80.5	77.2	73.8	70.5	65.4	60.4	53.7	43.6	33.6
82.5°	159.4	149.3	139.3	127.5	117.4	107.4	99.0	90.6	80.5	65.4	50.3
80°	228.2	213.1	198.0	181.2	166.1	149.3	134.2	120.8	107.4	87.2	67.1
77.5°	297.0	276.8	255.0	234.9	213.1	191.3	169.5	151.0	130.9	107.4	83.9
75°	360.7	337.2	317.1	288.6	261.7	233.2	204.7	179.5	154.4	125.8	100.7
72.5°	424.5	394.3	365.8	338.9	308.7	273.5	241.6	209.7	177.9	144.3	114.1
70°	488.3	451.3	416.1	384.2	350.7	315.4	276.8	239.9	201.3	161.1	125.8
67.5°	553.7	511.7	471.5	431.2	392.6	352.3	312.1	270.1	224.8	177.9	139.3
65°	625.8	573.8	525.2	479.9	434.6	390.9	345.6	300.3	250.0	196.3	151.0
62.5°	698.0	640.9	583.9	526.8	476.5	427.9	379.2	328.9	273.5	216.4	162.8
60°	775.2	709.7	644.3	580.5	518.5	464.8	411.1	357.4	298.7	234.9	174.5
57.5°	860.7	781.9	708.1	635.9	565.4	501.7	443.0	385.9	320.5	253.4	187.9
55°	958.0	860.7	773.5	692.9	615.8	538.6	474.8	416.1	345.6	271.8	203.0
52.5°	1060.4	948.0	842.3	751.7	669.5	582.2	505.0	439.6	370.8	290.3	216.4
50°	1179.5	1036.9	919.5	808.7	716.4	625.8	536.9	466.4	396.0	312.1	229.9
47.5°	1302.0	1144.3	996.6	875.8	766.8	667.8	573.8	489.9	419.5	332.2	243.3
45°	1444.6	1246.6	1083.9	941.3	815.4	711.4	610.7	515.1	439.6	352.3	256.7
42.5°	1582.2	1367.4	1174.5	1013.4	870.8	753.4	644.3	541.9	459.7	372.5	268.5
40°	1745.0	1488.2	1261.7	1082.2	926.2	793.6	677.8	570.5	478.2	390.9	280.2
37.5°	1901.0	1610.7	1367.4	1157.7	979.9	833.9	711.4	597.3	495.0	409.4	295.3
35°	2055.4	1746.6	1468.1	1228.2	1035.2	879.2	745.0	622.5	511.7	424.5	308.7
32.5°	2203.0	1874.2	1570.5	1307.0	1095.6	921.1	775.2	646.0	528.5	437.9	322.1
30°	2340.6	1995.0	1671.1	1387.6	1151.0	959.7	803.7	669.5	548.7	449.7	335.6
27.5°	2466.4	2112.4	1771.8	1463.1	1203.0	995.0	833.9	691.3	565.4	461.4	347.3
25°	2580.5	2218.1	1864.1	1531.9	1250.0	1033.6	862.4	713.1	580.5	471.5	357.4
22.5°	2687.9	2315.4	1948.0	1600.7	1307.0	1072.1	889.3	733.2	595.6	481.5	367.4
20°	2781.9	2404.4	2028.5	1669.5	1357.4	1107.4	912.7	751.7	609.1	488.3	377.5
17.5°	2857.4	2483.2	2100.7	1729.9	1401.0	1137.6	932.9	768.5	620.8	496.6	384.2
15°	2924.5	2550.3	2161.1	1781.9	1439.6	1162.7	951.3	781.9	630.9	501.7	392.6
12.5°	2981.5	2607.4	2213.1	1827.2	1473.1	1184.6	966.4	791.9	639.3	506.7	397.6
10°	3028.5	2652.7	2256.7	1862.4	1500.0	1201.3	978.2	802.0	646.0	511.7	402.7
7.5°	3063.7	2686.2	2288.6	1892.6	1521.8	1213.1	988.3	808.7	652.7	515.1	411.1
5°	3090.6	2714.8	2313.7	1912.7	1538.6	1229.9	1000.0	817.1	659.4	518.5	411.1
2.5°	3110.7	2738.2	2333.9	1929.5	1552.0	1226.5	1000.0	815.4	659.4	518.5	409.4
0°	3107.4	2739.9	2332.2	1929.5	1552.0	1223.1	1000.0	813.8	659.4	518.5	409.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.7	8.4	3.4	0.0
85°	25.2	16.8	8.4	0.0
82.5°	36.9	23.5	11.7	0.0
80°	48.7	31.9	15.1	0.0
77.5°	62.1	40.3	20.1	0.0
75°	73.8	47.0	23.5	0.0
72.5°	85.6	55.4	26.8	0.0
70°	95.6	62.1	30.2	0.0
67.5°	105.7	70.5	35.2	0.0
65°	114.1	77.2	38.6	0.0
62.5°	120.8	85.6	41.9	0.0
60°	129.2	92.3	45.3	0.0
57.5°	135.9	97.3	48.7	0.0
55°	142.6	100.7	52.0	0.0
52.5°	149.3	105.7	55.4	0.0
50°	156.0	110.7	58.7	0.0
47.5°	162.8	114.1	60.4	0.0
45°	172.8	119.1	63.8	0.0
42.5°	181.2	122.5	67.1	0.0
40°	189.6	125.8	68.8	0.0
37.5°	198.0	129.2	72.1	0.0
35°	206.4	132.5	73.8	0.0
32.5°	213.1	135.9	75.5	0.0
30°	219.8	139.3	77.2	0.0
27.5°	226.5	140.9	78.9	0.0
25°	231.5	144.3	80.5	0.0
22.5°	236.6	146.0	82.2	0.0
20°	239.9	147.7	83.9	0.0
17.5°	245.0	149.3	85.6	0.0
15°	246.6	151.0	88.9	0.0
12.5°	250.0	152.7	88.9	0.0
10°	251.7	154.4	88.9	0.0
7.5°	255.0	154.4	88.9	0.0
5°	253.4	154.4	88.9	0.0
2.5°	253.4	154.4	88.9	0.0
0°	251.7	154.4	88.9	0.0

(END OF REPORT)