

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: P628457

Luminaire Tested: **IFLD-M-SA4C-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628457
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

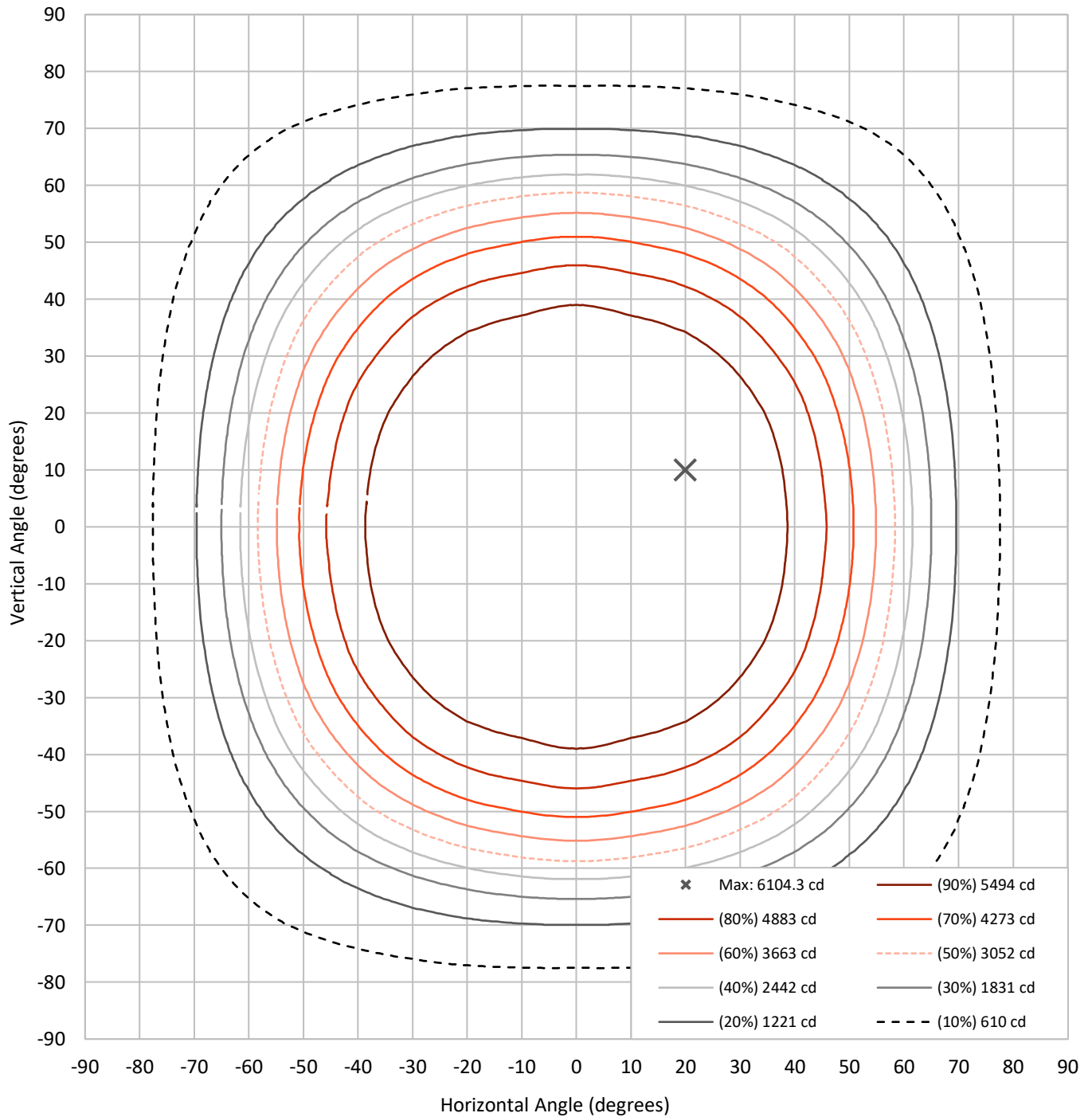
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18727.1 lumens	Max Intensity:	6104.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	85.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	11491.3 lumens	Field Lumens:	13776.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 218.1
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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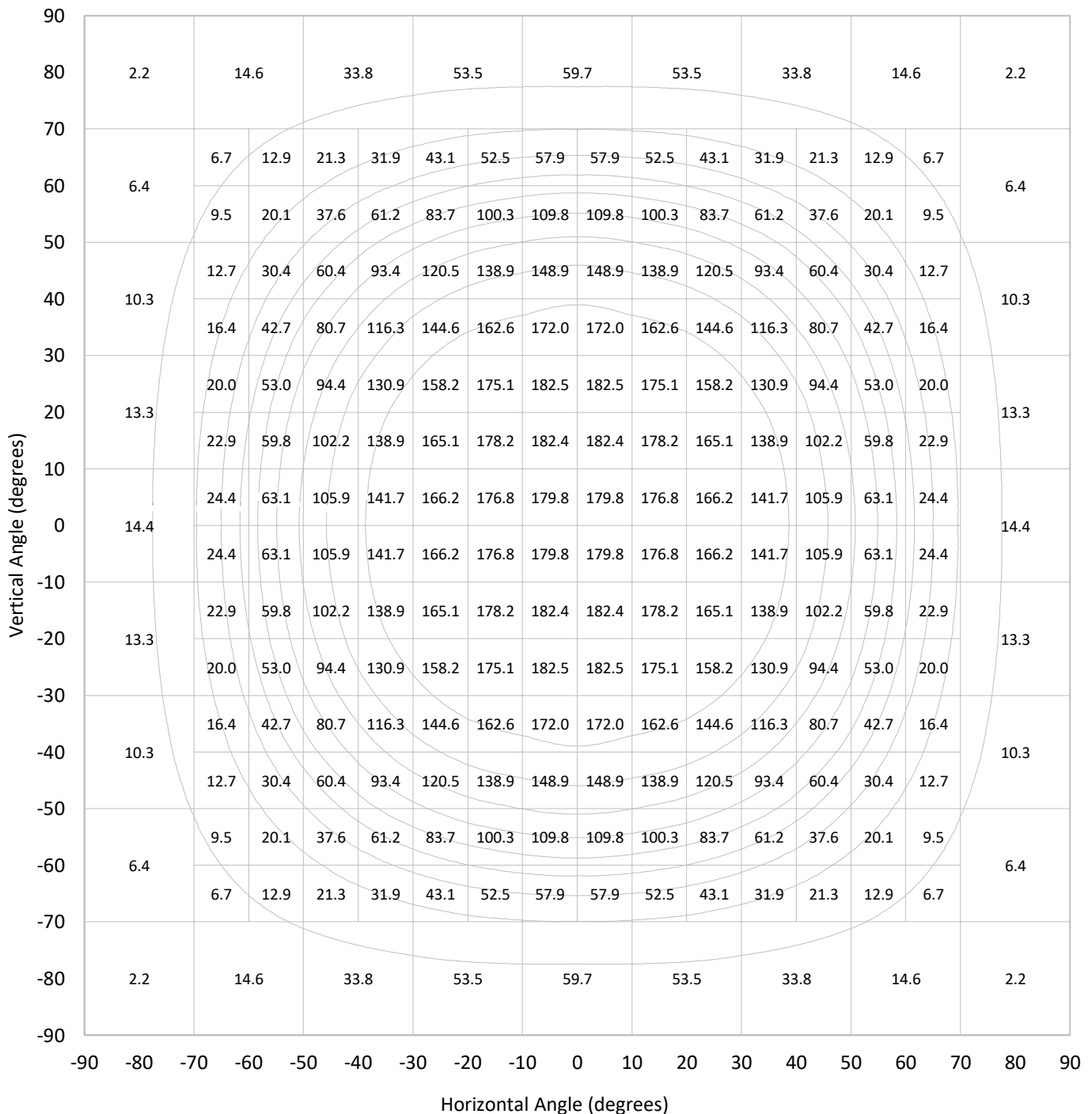
Iso-Candela Plot





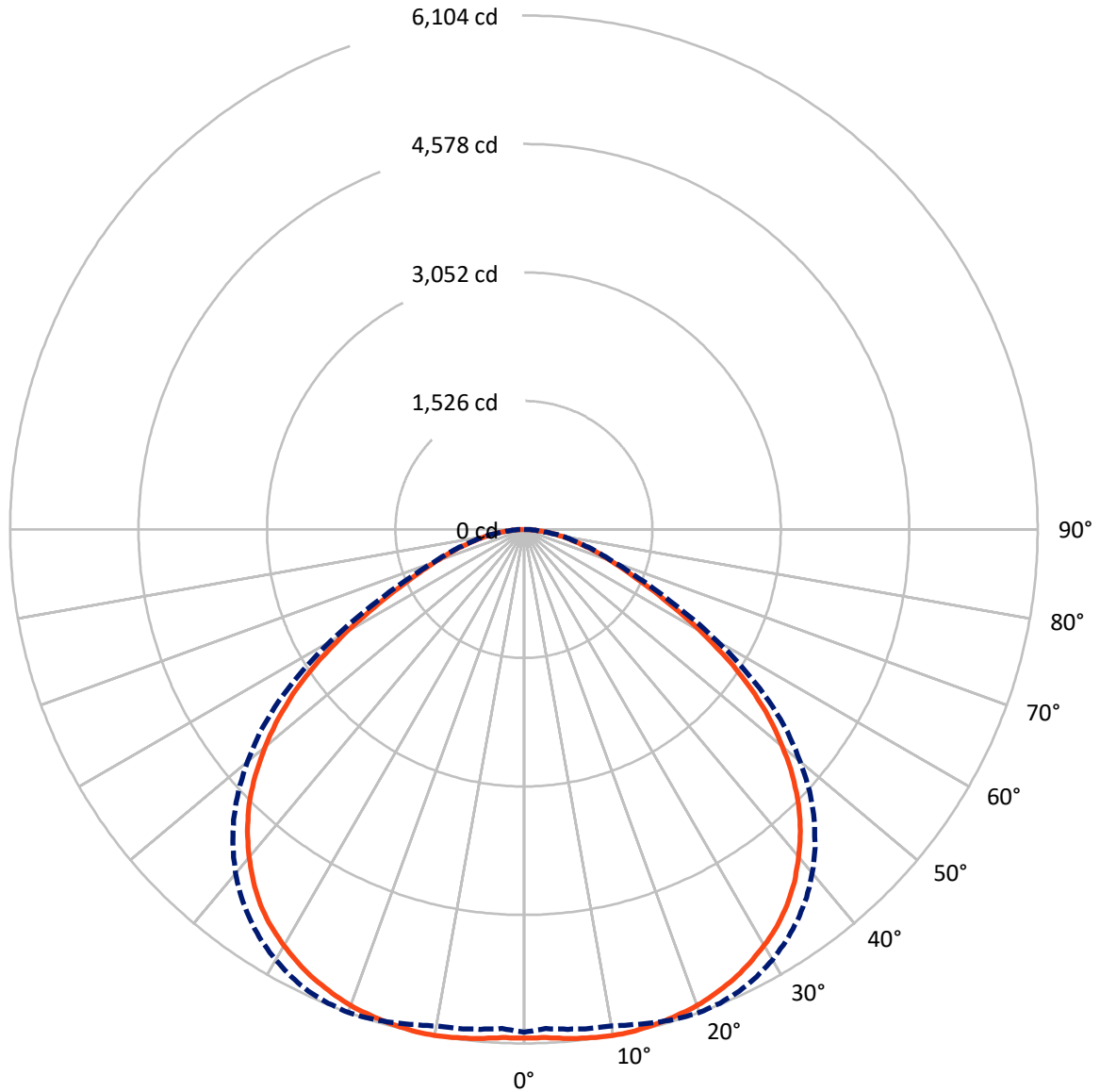
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Lumen Table



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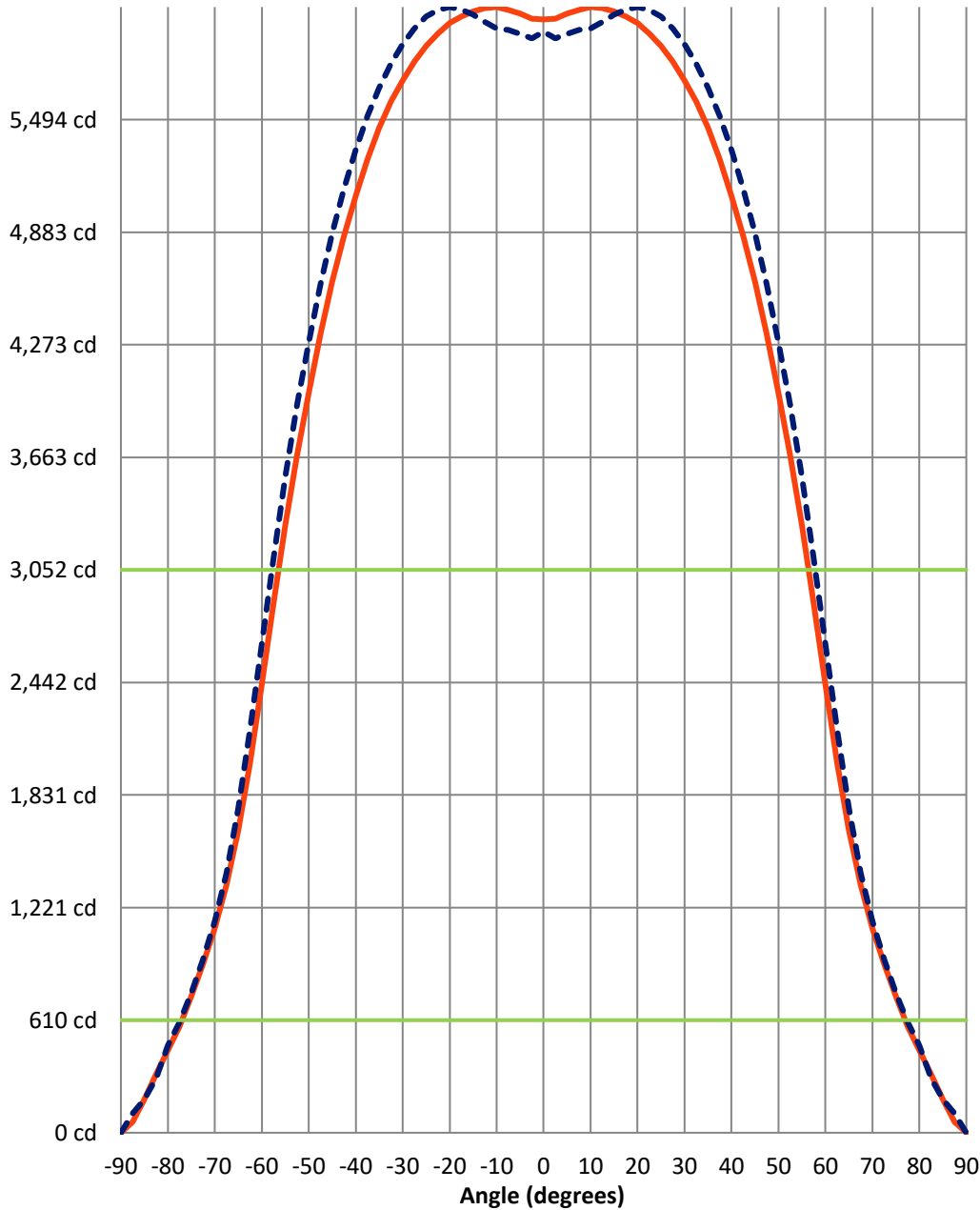
Luminous Intensity Polar Plot



— 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: 11491.3
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 13776.1
Efficiency: 73.6%

Spill:
Lumens: 4950.9
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°	49.3	53.2	55.2	57.1	59.1	61.1	63.1	61.1	59.1	59.1	57.1
85°	132.0	136.0	137.9	151.7	165.5	173.4	183.2	181.3	181.3	179.3	177.3
82.5°	264.0	275.9	285.7	299.5	307.4	319.2	327.1	321.2	317.2	309.4	303.4
80°	469.0	472.9	474.9	476.8	467.0	465.0	461.1	455.2	447.3	437.4	427.6
77.5°	597.0	601.0	604.9	601.0	599.0	597.0	591.1	585.2	577.3	569.4	557.6
75°	790.1	790.1	790.1	784.2	780.3	774.4	764.5	754.7	740.9	725.1	707.4
72.5°	995.0	993.1	991.1	979.3	969.4	957.6	943.8	932.0	916.2	898.5	874.9
70°	1209.8	1213.8	1215.7	1200.0	1188.1	1172.4	1154.6	1133.0	1109.3	1083.7	1050.2
67.5°	1505.4	1501.4	1497.5	1475.8	1460.1	1438.4	1412.8	1381.2	1345.8	1306.4	1259.1
65°	1871.9	1877.8	1866.0	1844.3	1814.7	1779.3	1739.9	1694.5	1641.3	1582.2	1515.2
62.5°	2315.2	2325.1	2311.3	2283.7	2246.2	2199.0	2143.8	2078.8	2005.9	1923.1	1840.3
60°	2819.6	2817.7	2792.0	2754.6	2705.3	2646.2	2585.2	2514.2	2431.5	2334.9	2234.4
57.5°	3282.7	3278.7	3247.2	3209.8	3160.5	3097.5	3032.4	2957.6	2870.9	2768.4	2652.1
55°	3698.4	3694.5	3663.0	3623.6	3572.3	3509.3	3450.2	3379.2	3294.5	3186.1	3062.0
52.5°	4066.9	4068.9	4041.3	3997.9	3942.8	3881.7	3824.5	3753.6	3672.8	3564.4	3444.2
50°	4405.8	4403.8	4374.3	4334.9	4283.6	4224.5	4167.4	4096.4	4011.7	3907.3	3791.0
47.5°	4721.1	4717.1	4683.6	4640.3	4587.1	4535.8	4482.6	4419.6	4330.9	4226.5	4110.2
45°	4985.1	4977.2	4943.7	4902.3	4851.1	4805.8	4758.5	4711.2	4616.6	4520.1	4409.7
42.5°	5211.7	5209.7	5176.2	5134.8	5083.6	5044.2	5000.9	4941.7	4862.9	4774.3	4665.9
40°	5428.4	5412.7	5379.2	5339.8	5292.5	5259.0	5215.6	5156.5	5079.7	4993.0	4888.5
37.5°	5590.0	5592.0	5556.5	5513.2	5471.8	5440.3	5400.8	5345.7	5278.7	5194.0	5089.5
35°	5743.7	5733.8	5704.3	5666.8	5629.4	5593.9	5552.6	5505.3	5450.1	5371.3	5272.8
32.5°	5844.2	5858.0	5822.5	5783.1	5761.4	5733.8	5690.5	5641.2	5592.0	5513.2	5424.5
30°	5954.5	5942.7	5915.1	5881.6	5865.9	5848.1	5810.7	5763.4	5706.3	5635.3	5552.6
27.5°	6031.4	6025.5	5992.0	5960.4	5952.6	5936.8	5907.2	5865.9	5808.7	5739.8	5662.9
25°	6064.9	6068.8	6037.3	6019.5	6019.5	6009.7	5986.1	5950.6	5893.4	5830.4	5755.5
22.5°	6080.6	6076.7	6055.0	6051.1	6060.9	6053.0	6043.2	6011.7	5960.4	5909.2	5846.2
20°	6090.5	6062.9	6043.2	6059.0	6070.8	6068.8	6060.9	6041.2	6017.6	5974.2	5919.1
17.5°	6068.8	6051.1	6027.4	6051.1	6076.7	6078.7	6070.8	6059.0	6053.0	6025.5	5976.2
15°	6015.6	6001.8	6005.8	6029.4	6059.0	6068.8	6074.7	6088.5	6080.6	6059.0	6015.6
12.5°	5980.1	5962.4	5980.1	6003.8	6019.5	6025.5	6072.7	6098.4	6098.4	6078.7	6051.1
10°	5970.3	5934.8	5958.5	5980.1	5988.0	6023.5	6062.9	6090.5	6104.3	6088.5	6053.0
7.5°	5950.6	5926.9	5936.8	5946.6	5992.0	6017.6	6039.3	6068.8	6088.5	6086.5	6055.0
5°	5940.7	5911.2	5915.1	5956.5	5988.0	6005.8	6013.6	6039.3	6068.8	6074.7	6051.1
2.5°	5915.1	5901.3	5930.9	5934.8	5958.5	5972.3	5980.1	6003.8	6041.2	6055.0	6045.2
0°	5901.3	5881.6	5861.9	5877.7	5917.1	5946.6	5958.5	5993.9	6037.3	6051.1	6029.4



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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°	55.2	53.2	51.2	49.3	51.2	51.2	51.2	49.3	51.2	49.3	49.3
85°	171.4	163.5	157.6	149.7	141.9	136.0	128.1	120.2	118.2	116.3	112.3
82.5°	295.6	285.7	275.9	264.0	252.2	238.4	224.6	208.9	204.9	201.0	195.1
80°	415.8	402.0	388.2	374.4	362.6	348.8	333.0	315.3	303.4	293.6	281.8
77.5°	541.9	522.2	502.4	478.8	465.0	451.2	435.5	417.7	400.0	384.2	366.5
75°	685.7	664.0	644.3	620.7	595.1	569.4	543.8	520.2	494.6	470.9	447.3
72.5°	845.3	813.8	782.2	752.7	721.2	689.6	656.1	624.6	593.1	561.6	528.1
70°	1012.8	973.4	934.0	894.6	853.2	811.8	772.4	733.0	693.6	652.2	614.8
67.5°	1209.8	1164.5	1113.3	1058.1	997.0	943.8	892.6	845.3	798.0	750.7	703.4
65°	1456.1	1393.1	1324.1	1249.2	1178.3	1107.4	1032.5	961.6	906.4	851.2	798.0
62.5°	1759.6	1670.9	1574.3	1477.8	1391.1	1298.5	1211.8	1119.2	1032.5	953.7	888.6
60°	2122.1	2001.9	1883.7	1759.6	1639.4	1513.3	1402.9	1288.6	1180.3	1083.7	989.1
57.5°	2522.1	2382.2	2240.3	2088.6	1925.1	1777.3	1627.5	1477.8	1349.7	1221.6	1115.2
55°	2928.0	2780.2	2620.6	2449.2	2269.9	2080.7	1877.8	1710.3	1534.9	1385.2	1247.3
52.5°	3314.2	3160.5	2995.0	2837.4	2622.6	2405.8	2183.2	1962.5	1757.6	1566.5	1399.0
50°	3659.0	3509.3	3349.7	3166.4	2967.4	2736.9	2488.6	2240.3	1998.0	1773.4	1564.5
47.5°	3974.3	3828.5	3668.9	3485.6	3304.3	3048.2	2798.0	2524.1	2254.1	1996.0	1751.7
45°	4269.8	4122.1	3956.5	3781.2	3572.3	3343.8	3085.6	2809.8	2520.1	2230.5	1948.7
42.5°	4537.8	4390.0	4222.5	4041.3	3834.4	3607.8	3357.5	3079.7	2788.1	2472.8	2163.5
40°	4772.3	4628.5	4466.9	4277.7	4084.6	3846.2	3599.9	3335.9	3034.4	2717.2	2376.3
37.5°	4977.2	4843.2	4683.6	4496.4	4291.5	4078.7	3824.5	3560.5	3288.6	2943.8	2595.0
35°	5158.5	5034.4	4870.8	4693.5	4492.5	4267.9	4029.5	3771.3	3477.7	3154.6	2815.7
32.5°	5316.1	5190.0	5040.3	4862.9	4667.9	4457.0	4212.7	3952.6	3674.8	3345.7	2977.3
30°	5450.1	5327.9	5186.1	5018.6	4831.4	4622.5	4384.1	4122.1	3838.3	3511.2	3146.7
27.5°	5566.4	5450.1	5312.2	5156.5	4977.2	4776.2	4535.8	4271.8	3982.2	3666.9	3302.4
25°	5666.8	5554.5	5426.5	5278.7	5101.3	4904.3	4677.7	4401.9	4112.2	3795.0	3434.4
22.5°	5757.5	5649.1	5521.0	5377.2	5215.6	5018.6	4790.0	4516.1	4222.5	3909.3	3554.6
20°	5838.3	5737.8	5611.7	5463.9	5302.3	5103.3	4876.7	4616.6	4321.1	4013.7	3663.0
17.5°	5903.3	5814.6	5688.5	5532.9	5371.3	5178.2	4957.5	4719.1	4405.8	4102.4	3753.6
15°	5948.6	5861.9	5747.6	5590.0	5432.4	5241.2	5020.6	4774.3	4482.6	4173.3	3828.5
12.5°	5980.1	5887.5	5781.1	5635.3	5477.7	5288.5	5073.8	4831.4	4547.7	4236.3	3893.5
10°	5988.0	5903.3	5796.9	5666.8	5513.2	5329.9	5119.1	4878.7	4600.9	4285.6	3946.7
7.5°	5992.0	5911.2	5814.6	5690.5	5538.8	5361.4	5152.6	4916.1	4640.3	4327.0	3986.1
5°	5990.0	5913.1	5826.4	5706.3	5554.5	5379.2	5174.2	4941.7	4667.9	4354.6	4015.7
2.5°	5984.1	5915.1	5834.3	5718.1	5572.3	5398.9	5195.9	4971.3	4697.4	4378.2	4039.3
0°	5999.8	5940.7	5838.3	5714.1	5576.2	5398.9	5194.0	4975.2	4701.4	4376.2	4037.3



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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°	49.3	47.3	47.3	45.3	43.3	41.4	37.4	35.5	31.5	25.6	19.7
85°	106.4	100.5	94.6	90.6	86.7	82.8	76.8	70.9	63.1	51.2	39.4
82.5°	187.2	175.4	163.5	149.7	137.9	126.1	116.3	106.4	94.6	76.8	59.1
80°	268.0	250.2	232.5	212.8	195.1	175.4	157.6	141.9	126.1	102.5	78.8
77.5°	348.8	325.1	299.5	275.9	250.2	224.6	199.0	177.3	153.7	126.1	98.5
75°	423.6	396.0	372.4	338.9	307.4	273.9	240.4	210.8	181.3	147.8	118.2
72.5°	498.5	463.0	429.5	398.0	362.6	321.2	283.7	246.3	208.9	169.5	134.0
70°	573.4	530.0	488.7	451.2	411.8	370.4	325.1	281.8	236.4	189.2	147.8
67.5°	650.2	601.0	553.7	506.4	461.1	413.8	366.5	317.2	264.0	208.9	163.5
65°	735.0	673.9	616.7	563.5	510.3	459.1	405.9	352.7	293.6	230.5	177.3
62.5°	819.7	752.7	685.7	618.7	559.6	502.4	445.3	386.2	321.2	254.2	191.1
60°	910.3	833.5	756.6	681.8	608.9	545.8	482.7	419.7	350.7	275.9	204.9
57.5°	1010.8	918.2	831.5	746.8	664.0	589.1	520.2	453.2	376.3	297.5	220.7
55°	1125.1	1010.8	908.4	813.8	723.1	632.5	557.6	488.7	405.9	319.2	238.4
52.5°	1245.3	1113.3	989.1	882.7	786.2	683.7	593.1	516.2	435.5	340.9	254.2
50°	1385.2	1217.7	1079.8	949.7	841.4	735.0	630.5	547.8	465.0	366.5	269.9
47.5°	1529.0	1343.8	1170.4	1028.5	900.5	784.2	673.9	575.4	492.6	390.1	285.7
45°	1696.5	1464.0	1272.9	1105.4	957.6	835.4	717.2	604.9	516.2	413.8	301.5
42.5°	1858.1	1605.9	1379.3	1190.1	1022.6	884.7	756.6	636.4	539.9	437.4	315.3
40°	2049.2	1747.7	1481.7	1270.9	1087.7	932.0	796.0	669.9	561.6	459.1	329.1
37.5°	2232.5	1891.6	1605.9	1359.6	1150.7	979.3	835.4	701.5	581.3	480.8	346.8
35°	2413.7	2051.2	1724.1	1442.3	1215.7	1032.5	874.9	731.0	601.0	498.5	362.6
32.5°	2587.1	2200.9	1844.3	1534.9	1286.7	1081.7	910.3	758.6	620.7	514.3	378.3
30°	2748.7	2342.8	1962.5	1629.5	1351.7	1127.1	943.8	786.2	644.3	528.1	394.1
27.5°	2896.5	2480.7	2080.7	1718.2	1412.8	1168.4	979.3	811.8	664.0	541.9	407.9
25°	3030.5	2604.9	2189.1	1799.0	1467.9	1213.8	1012.8	837.4	681.8	553.7	419.7
22.5°	3156.6	2719.1	2287.6	1879.8	1534.9	1259.1	1044.3	861.1	699.5	565.5	431.5
20°	3266.9	2823.6	2382.2	1960.5	1594.0	1300.5	1071.9	882.7	715.3	573.4	443.3
17.5°	3355.6	2916.2	2466.9	2031.5	1645.3	1335.9	1095.5	902.4	729.0	583.2	451.2
15°	3434.4	2995.0	2537.9	2092.6	1690.6	1365.5	1117.2	918.2	740.9	589.1	461.1
12.5°	3501.4	3062.0	2598.9	2145.8	1730.0	1391.1	1134.9	930.0	750.7	595.1	467.0
10°	3556.6	3115.2	2650.2	2187.1	1761.5	1410.8	1148.7	941.8	758.6	601.0	472.9
7.5°	3597.9	3154.6	2687.6	2222.6	1787.1	1424.6	1160.6	949.7	766.5	604.9	482.7
5°	3629.5	3188.1	2717.2	2246.2	1806.8	1444.3	1174.4	959.6	774.4	608.9	482.7
2.5°	3653.1	3215.7	2740.8	2266.0	1822.6	1440.4	1174.4	957.6	774.4	608.9	480.8
0°	3649.2	3217.7	2738.8	2266.0	1822.6	1436.4	1174.4	955.6	774.4	608.9	480.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.8	9.9	3.9	0.0
85°	29.6	19.7	9.9	0.0
82.5°	43.3	27.6	13.8	0.0
80°	57.1	37.4	17.7	0.0
77.5°	72.9	47.3	23.6	0.0
75°	86.7	55.2	27.6	0.0
72.5°	100.5	65.0	31.5	0.0
70°	112.3	72.9	35.5	0.0
67.5°	124.1	82.8	41.4	0.0
65°	134.0	90.6	45.3	0.0
62.5°	141.9	100.5	49.3	0.0
60°	151.7	108.4	53.2	0.0
57.5°	159.6	114.3	57.1	0.0
55°	167.5	118.2	61.1	0.0
52.5°	175.4	124.1	65.0	0.0
50°	183.2	130.0	69.0	0.0
47.5°	191.1	134.0	70.9	0.0
45°	203.0	139.9	74.9	0.0
42.5°	212.8	143.8	78.8	0.0
40°	222.7	147.8	80.8	0.0
37.5°	232.5	151.7	84.7	0.0
35°	242.4	155.7	86.7	0.0
32.5°	250.2	159.6	88.7	0.0
30°	258.1	163.5	90.6	0.0
27.5°	266.0	165.5	92.6	0.0
25°	271.9	169.5	94.6	0.0
22.5°	277.8	171.4	96.5	0.0
20°	281.8	173.4	98.5	0.0
17.5°	287.7	175.4	100.5	0.0
15°	289.6	177.3	104.4	0.0
12.5°	293.6	179.3	104.4	0.0
10°	295.6	181.3	104.4	0.0
7.5°	299.5	181.3	104.4	0.0
5°	297.5	181.3	104.4	0.0
2.5°	297.5	181.3	104.4	0.0
0°	295.6	181.3	104.4	0.0

(END OF REPORT)