

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: P628486

Luminaire Tested: **IFLD-M-SA4C-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628486
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

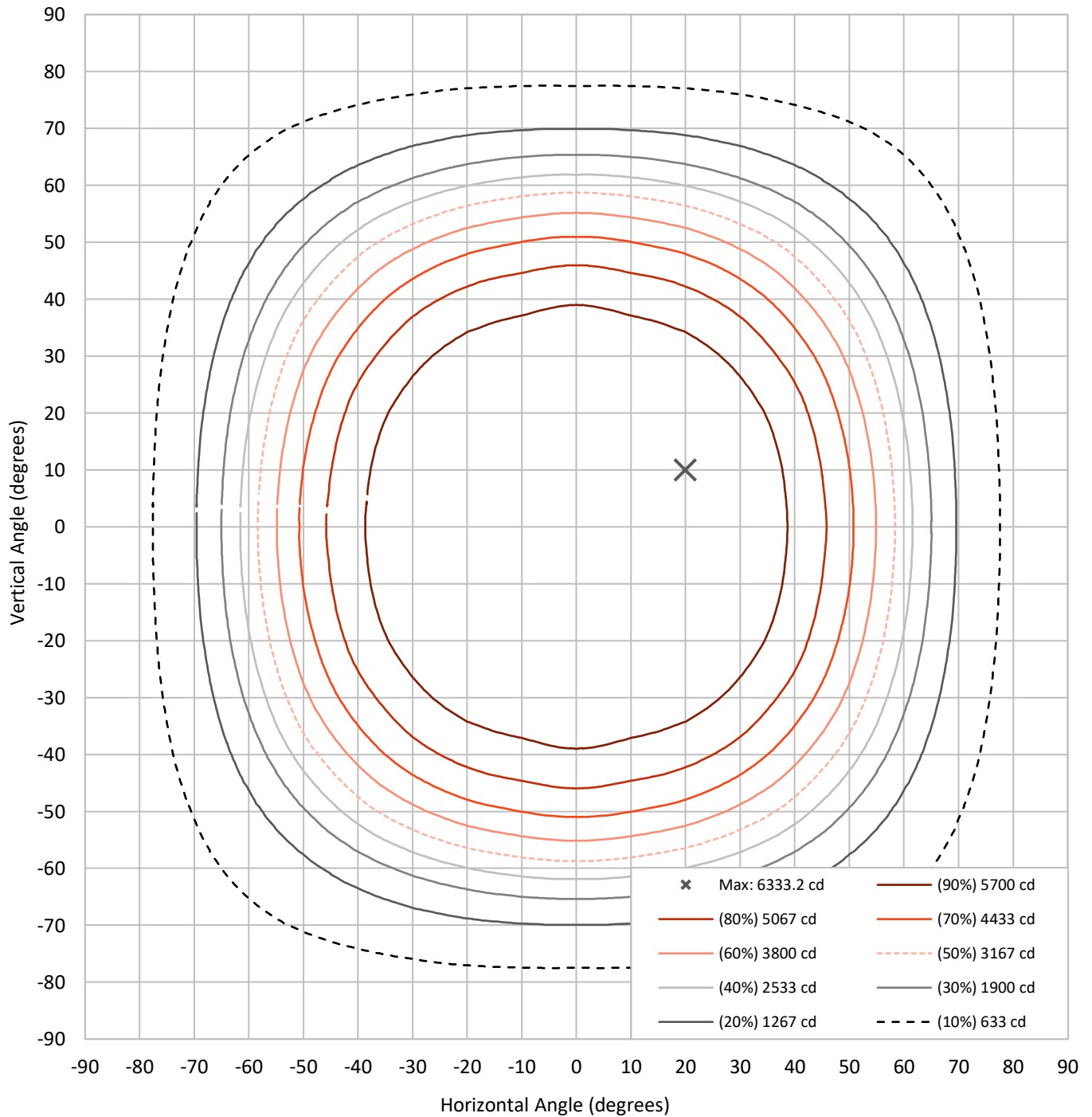
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19429.4 lumens	Max Intensity:	6333.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	89.1 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:	11922.3 lumens	Field Lumens:	14292.7 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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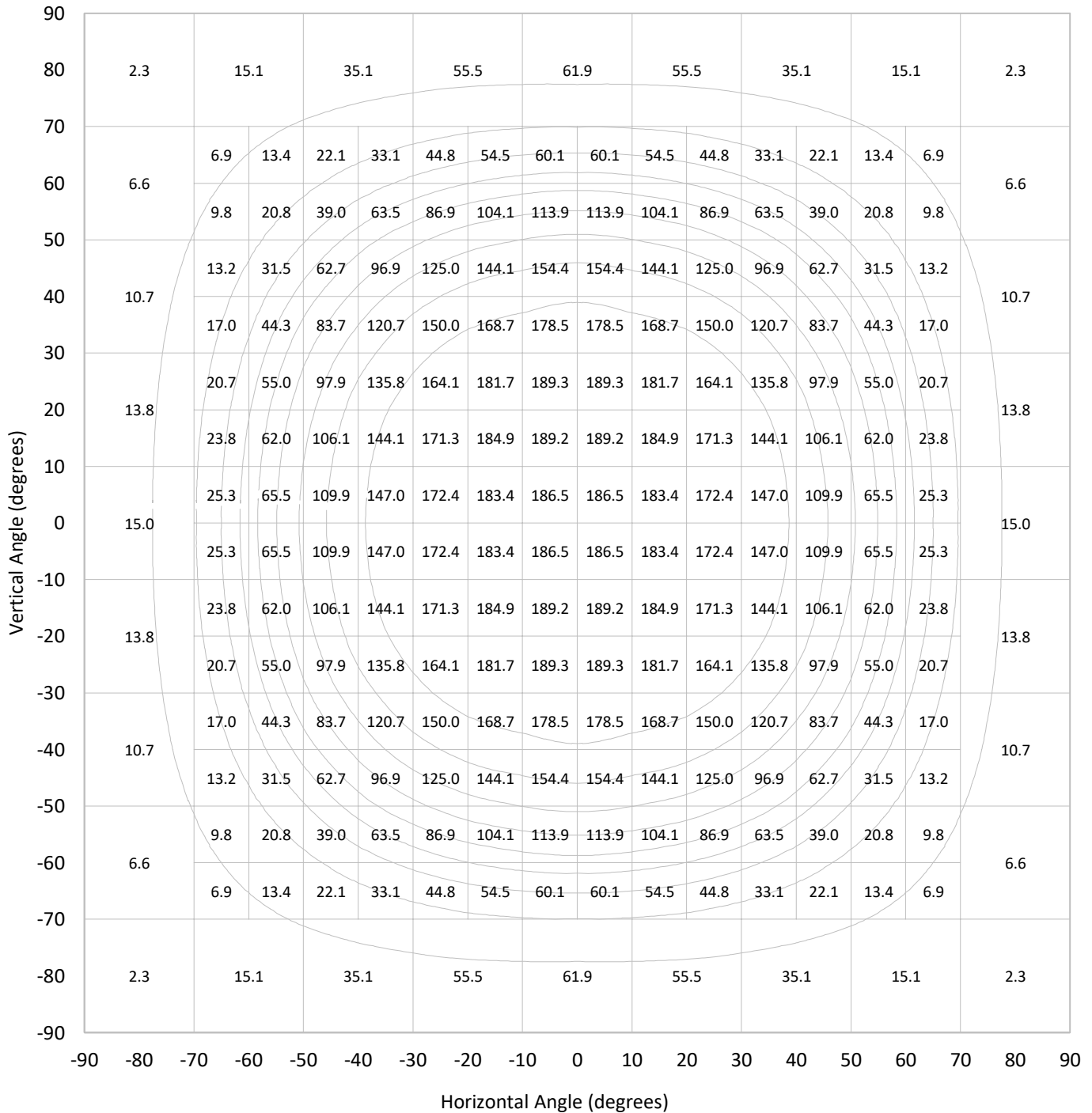
Iso-Candela Plot





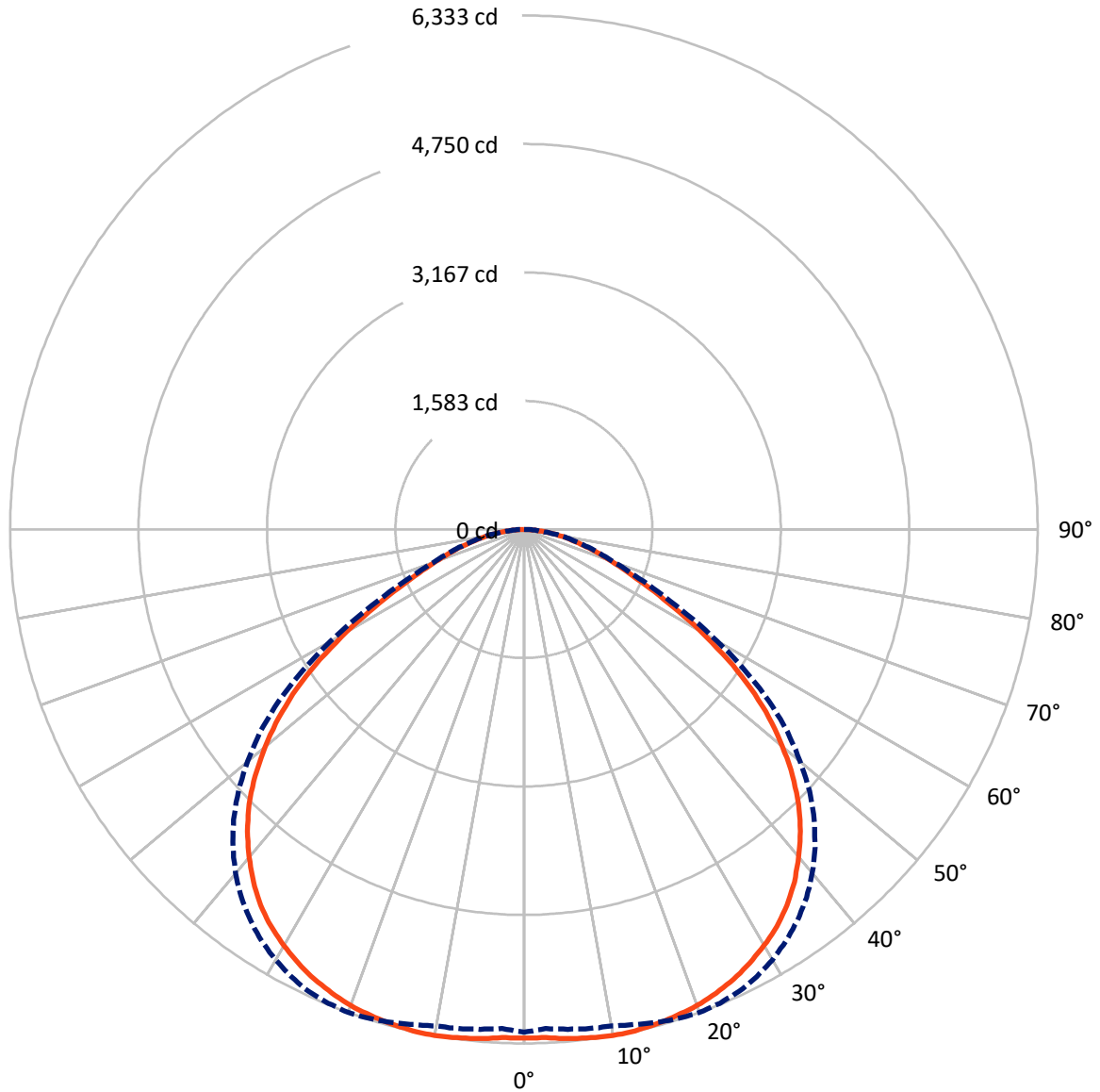
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Lumen Table



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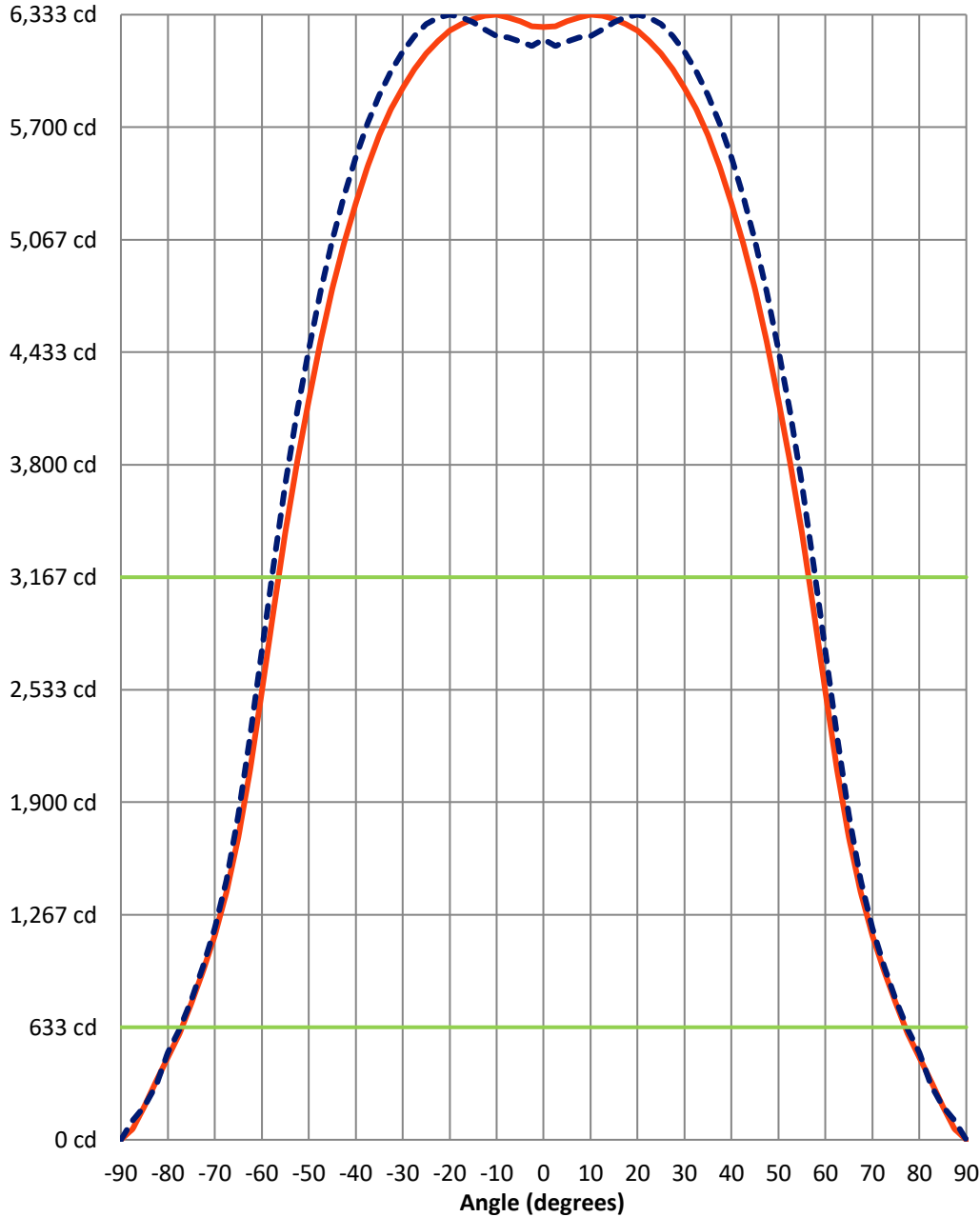
Luminous Intensity Polar Plot



— 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: 11922.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 14292.7
 Efficiency: 73.6%

Spill:
 Lumens: 5136.6
 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°	51.1	55.2	57.2	59.3	61.3	63.4	65.4	63.4	61.3	61.3	59.3
85°	137.0	141.1	143.1	157.4	171.7	179.9	190.1	188.1	188.1	186.0	184.0
82.5°	273.9	286.2	296.4	310.7	318.9	331.2	339.4	333.2	329.1	321.0	314.8
80°	486.5	490.6	492.7	494.7	484.5	482.5	478.4	472.2	464.1	453.8	443.6
77.5°	619.4	623.5	627.6	623.5	621.5	619.4	613.3	607.2	599.0	590.8	578.5
75°	819.8	819.8	819.8	813.6	809.5	803.4	793.2	783.0	768.6	752.3	733.9
72.5°	1032.4	1030.3	1028.3	1016.0	1005.8	993.5	979.2	966.9	950.6	932.2	907.7
70°	1255.2	1259.3	1261.3	1245.0	1232.7	1216.3	1197.9	1175.5	1150.9	1124.4	1089.6
67.5°	1561.8	1557.7	1553.7	1531.2	1514.8	1492.3	1465.7	1433.0	1396.2	1355.4	1306.3
65°	1942.1	1948.2	1935.9	1913.4	1882.8	1846.0	1805.1	1758.1	1702.9	1641.6	1572.1
62.5°	2402.0	2412.3	2397.9	2369.3	2330.5	2281.4	2224.2	2156.7	2081.1	1995.2	1909.4
60°	2925.4	2923.3	2896.7	2857.9	2806.8	2745.5	2682.1	2608.5	2522.6	2422.5	2318.2
57.5°	3405.8	3401.7	3369.0	3330.1	3279.0	3213.6	3146.1	3068.5	2978.5	2872.2	2751.6
55°	3837.1	3833.0	3800.3	3759.4	3706.3	3640.9	3579.5	3505.9	3418.0	3305.6	3176.8
52.5°	4219.4	4221.4	4192.8	4147.8	4090.6	4027.2	3968.0	3894.4	3810.5	3698.1	3573.4
50°	4571.0	4569.0	4538.3	4497.4	4444.3	4382.9	4323.7	4250.1	4162.2	4053.8	3933.2
47.5°	4898.1	4894.0	4859.3	4814.3	4759.1	4705.9	4650.7	4585.3	4493.3	4385.0	4264.4
45°	5172.0	5163.9	5129.1	5086.2	5033.0	4986.0	4936.9	4887.9	4789.8	4689.6	4575.1
42.5°	5407.1	5405.1	5370.3	5327.4	5274.2	5233.4	5188.4	5127.1	5045.3	4953.3	4840.9
40°	5632.0	5615.6	5580.9	5540.0	5490.9	5456.2	5411.2	5349.9	5270.2	5180.2	5071.9
37.5°	5799.6	5801.7	5764.9	5719.9	5677.0	5644.3	5603.4	5546.1	5476.6	5388.7	5280.4
35°	5959.1	5948.9	5918.2	5879.4	5840.5	5803.7	5760.8	5711.7	5654.5	5572.7	5470.5
32.5°	6063.3	6077.6	6040.9	6000.0	5977.5	5948.9	5903.9	5852.8	5801.7	5719.9	5627.9
30°	6177.8	6165.6	6136.9	6102.2	6085.8	6067.4	6028.6	5979.5	5920.2	5846.6	5760.8
27.5°	6257.5	6251.4	6216.7	6184.0	6175.8	6159.4	6128.8	6085.8	6026.5	5955.0	5875.3
25°	6292.3	6296.4	6263.7	6245.3	6245.3	6235.1	6210.5	6173.7	6114.4	6049.0	5971.3
22.5°	6308.7	6304.6	6282.1	6278.0	6288.2	6280.0	6269.8	6237.1	6184.0	6130.8	6065.4
20°	6318.9	6290.3	6269.8	6286.2	6298.4	6296.4	6288.2	6267.8	6243.2	6198.3	6141.0
17.5°	6296.4	6278.0	6253.5	6278.0	6304.6	6306.6	6298.4	6286.2	6280.0	6251.4	6200.3
15°	6241.2	6226.9	6231.0	6255.5	6286.2	6296.4	6302.5	6316.8	6308.7	6286.2	6241.2
12.5°	6204.4	6186.0	6204.4	6228.9	6245.3	6251.4	6300.5	6327.1	6327.1	6306.6	6278.0
10°	6194.2	6157.4	6181.9	6204.4	6212.6	6249.4	6290.3	6318.9	6333.2	6316.8	6280.0
7.5°	6173.7	6149.2	6159.4	6169.6	6216.7	6243.2	6265.7	6296.4	6316.8	6314.8	6282.1
5°	6163.5	6132.8	6136.9	6179.9	6212.6	6231.0	6239.1	6265.7	6296.4	6302.5	6278.0
2.5°	6136.9	6122.6	6153.3	6157.4	6181.9	6196.2	6204.4	6228.9	6267.8	6282.1	6271.9
0°	6122.6	6102.2	6081.7	6098.1	6139.0	6169.6	6181.9	6218.7	6263.7	6278.0	6255.5



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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°	57.2	55.2	53.2	51.1	53.2	53.2	53.2	51.1	53.2	51.1	51.1
85°	177.9	169.7	163.5	155.4	147.2	141.1	132.9	124.7	122.7	120.6	116.5
82.5°	306.6	296.4	286.2	273.9	261.7	247.4	233.0	216.7	212.6	208.5	202.4
80°	431.3	417.0	402.7	388.4	376.1	361.8	345.5	327.1	314.8	304.6	292.3
77.5°	562.2	541.7	521.3	496.8	482.5	468.1	451.8	433.4	415.0	398.6	380.2
75°	711.4	688.9	668.5	643.9	617.4	590.8	564.2	539.7	513.1	488.6	464.1
72.5°	877.0	844.3	811.6	780.9	748.2	715.5	680.7	648.0	615.3	582.6	547.9
70°	1050.8	1009.9	969.0	928.1	885.2	842.2	801.4	760.5	719.6	676.7	637.8
67.5°	1255.2	1208.2	1155.0	1097.8	1034.4	979.2	926.1	877.0	827.9	778.9	729.8
65°	1510.7	1445.3	1373.8	1296.1	1222.5	1148.9	1071.2	997.6	940.4	883.1	827.9
62.5°	1825.5	1733.6	1633.4	1533.2	1443.3	1347.2	1257.2	1161.2	1071.2	989.4	922.0
60°	2201.7	2077.0	1954.3	1825.5	1700.8	1570.0	1455.5	1337.0	1224.5	1124.4	1026.2
57.5°	2616.7	2471.5	2324.3	2166.9	1997.3	1843.9	1688.6	1533.2	1400.3	1267.5	1157.1
55°	3037.8	2884.5	2718.9	2541.0	2355.0	2158.8	1948.2	1774.4	1592.5	1437.1	1294.0
52.5°	3438.5	3279.0	3107.3	2943.8	2720.9	2496.1	2265.1	2036.1	1823.5	1625.2	1451.4
50°	3796.2	3640.9	3475.3	3285.2	3078.7	2839.5	2581.9	2324.3	2072.9	1839.9	1623.2
47.5°	4123.3	3972.0	3806.5	3616.3	3428.3	3162.5	2902.9	2618.7	2338.7	2070.9	1817.4
45°	4430.0	4276.6	4104.9	3923.0	3706.3	3469.1	3201.3	2915.1	2614.6	2314.1	2021.8
42.5°	4708.0	4554.7	4380.9	4192.8	3978.2	3743.1	3483.5	3195.2	2892.7	2565.6	2244.6
40°	4951.3	4802.0	4634.4	4438.1	4237.8	3990.4	3734.9	3461.0	3148.2	2819.1	2465.4
37.5°	5163.9	5024.8	4859.3	4665.1	4452.4	4231.7	3968.0	3694.0	3411.9	3054.2	2692.3
35°	5351.9	5223.1	5053.5	4869.5	4661.0	4427.9	4180.6	3912.8	3608.2	3272.9	2921.3
32.5°	5515.5	5384.6	5229.3	5045.3	4842.9	4624.2	4370.7	4100.8	3812.6	3471.2	3088.9
30°	5654.5	5527.7	5380.5	5206.8	5012.6	4795.9	4548.5	4276.6	3982.3	3642.9	3264.7
27.5°	5775.1	5654.5	5511.4	5349.9	5163.9	4955.3	4705.9	4432.0	4131.5	3804.4	3426.2
25°	5879.4	5762.8	5630.0	5476.6	5292.6	5088.2	4853.1	4566.9	4266.4	3937.3	3563.2
22.5°	5973.4	5861.0	5728.1	5578.8	5411.2	5206.8	4969.6	4685.5	4380.9	4055.9	3687.9
20°	6057.2	5952.9	5822.1	5668.8	5501.2	5294.7	5059.6	4789.8	4483.1	4164.2	3800.3
17.5°	6124.7	6032.7	5901.8	5740.3	5572.7	5372.4	5143.4	4896.1	4571.0	4256.2	3894.4
15°	6171.7	6081.7	5963.2	5799.6	5636.1	5437.8	5208.8	4953.3	4650.7	4329.8	3972.0
12.5°	6204.4	6108.3	5997.9	5846.6	5683.1	5486.9	5264.0	5012.6	4718.2	4395.2	4039.5
10°	6212.6	6124.7	6014.3	5879.4	5719.9	5529.8	5311.0	5061.6	4773.4	4446.3	4094.7
7.5°	6216.7	6132.8	6032.7	5903.9	5746.5	5562.5	5345.8	5100.5	4814.3	4489.2	4135.6
5°	6214.6	6134.9	6044.9	5920.2	5762.8	5580.9	5368.3	5127.1	4842.9	4517.9	4166.2
2.5°	6208.5	6136.9	6053.1	5932.5	5781.2	5601.3	5390.8	5157.7	4873.6	4542.4	4190.8
0°	6224.8	6163.5	6057.2	5928.4	5785.3	5601.3	5388.7	5161.8	4877.7	4540.3	4188.7



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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°	51.1	49.1	49.1	47.0	45.0	42.9	38.8	36.8	32.7	26.6	20.4
85°	110.4	104.3	98.1	94.0	89.9	85.9	79.7	73.6	65.4	53.2	40.9
82.5°	194.2	181.9	169.7	155.4	143.1	130.8	120.6	110.4	98.1	79.7	61.3
80°	278.0	259.6	241.2	220.8	202.4	181.9	163.5	147.2	130.8	106.3	81.8
77.5°	361.8	337.3	310.7	286.2	259.6	233.0	206.5	184.0	159.5	130.8	102.2
75°	439.5	410.9	386.4	351.6	318.9	284.2	249.4	218.7	188.1	153.3	122.7
72.5°	517.2	480.4	445.7	412.9	376.1	333.2	294.4	255.5	216.7	175.8	139.0
70°	594.9	549.9	507.0	468.1	427.3	384.3	337.3	292.3	245.3	196.3	153.3
67.5°	674.6	623.5	574.4	525.4	478.4	429.3	380.2	329.1	273.9	216.7	169.7
65°	762.5	699.1	639.9	584.7	529.5	476.3	421.1	365.9	304.6	239.2	184.0
62.5°	850.4	780.9	711.4	641.9	580.6	521.3	462.0	400.7	333.2	263.7	198.3
60°	944.5	864.7	785.0	707.3	631.7	566.3	500.8	435.4	363.9	286.2	212.6
57.5°	1048.7	952.6	862.7	774.8	688.9	611.2	539.7	470.2	390.5	308.7	229.0
55°	1167.3	1048.7	942.4	844.3	750.3	656.2	578.5	507.0	421.1	331.2	247.4
52.5°	1292.0	1155.0	1026.2	915.8	815.7	709.4	615.3	535.6	451.8	353.7	263.7
50°	1437.1	1263.4	1120.3	985.3	872.9	762.5	654.2	568.3	482.5	380.2	280.1
47.5°	1586.4	1394.2	1214.3	1067.1	934.2	813.6	699.1	596.9	511.1	404.8	296.4
45°	1760.1	1518.9	1320.6	1146.8	993.5	866.8	744.1	627.6	535.6	429.3	312.8
42.5°	1927.8	1666.1	1431.0	1234.7	1061.0	917.9	785.0	660.3	560.1	453.8	327.1
40°	2126.1	1813.3	1537.3	1318.6	1128.4	966.9	825.9	695.1	582.6	476.3	341.4
37.5°	2316.2	1962.5	1666.1	1410.6	1193.9	1016.0	866.8	727.8	603.1	498.8	359.8
35°	2504.2	2128.1	1788.7	1496.4	1261.3	1071.2	907.7	758.4	623.5	517.2	376.1
32.5°	2684.1	2283.5	1913.4	1592.5	1334.9	1122.3	944.5	787.0	643.9	533.6	392.5
30°	2851.8	2430.7	2036.1	1690.6	1402.4	1169.3	979.2	815.7	668.5	547.9	408.9
27.5°	3005.1	2573.8	2158.8	1782.6	1465.7	1212.3	1016.0	842.2	688.9	562.2	423.2
25°	3144.1	2702.5	2271.2	1866.4	1523.0	1259.3	1050.8	868.8	707.3	574.4	435.4
22.5°	3274.9	2821.1	2373.4	1950.2	1592.5	1306.3	1083.5	893.4	725.7	586.7	447.7
20°	3389.4	2929.5	2471.5	2034.1	1653.8	1349.2	1112.1	915.8	742.1	594.9	460.0
17.5°	3481.4	3025.5	2559.4	2107.7	1707.0	1386.0	1136.6	936.3	756.4	605.1	468.1
15°	3563.2	3107.3	2633.0	2171.0	1754.0	1416.7	1159.1	952.6	768.6	611.2	478.4
12.5°	3632.7	3176.8	2696.4	2226.2	1794.9	1443.3	1177.5	964.9	778.9	617.4	484.5
10°	3689.9	3232.0	2749.6	2269.2	1827.6	1463.7	1191.8	977.2	787.0	623.5	490.6
7.5°	3732.9	3272.9	2788.4	2305.9	1854.2	1478.0	1204.1	985.3	795.2	627.6	500.8
5°	3765.6	3307.6	2819.1	2330.5	1874.6	1498.5	1218.4	995.6	803.4	631.7	500.8
2.5°	3790.1	3336.3	2843.6	2350.9	1891.0	1494.4	1218.4	993.5	803.4	631.7	498.8
0°	3786.0	3338.3	2841.6	2350.9	1891.0	1490.3	1218.4	991.5	803.4	631.7	498.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.3	10.2	4.1	0.0
85°	30.7	20.4	10.2	0.0
82.5°	45.0	28.6	14.3	0.0
80°	59.3	38.8	18.4	0.0
77.5°	75.6	49.1	24.5	0.0
75°	89.9	57.2	28.6	0.0
72.5°	104.3	67.5	32.7	0.0
70°	116.5	75.6	36.8	0.0
67.5°	128.8	85.9	42.9	0.0
65°	139.0	94.0	47.0	0.0
62.5°	147.2	104.3	51.1	0.0
60°	157.4	112.4	55.2	0.0
57.5°	165.6	118.6	59.3	0.0
55°	173.8	122.7	63.4	0.0
52.5°	181.9	128.8	67.5	0.0
50°	190.1	134.9	71.5	0.0
47.5°	198.3	139.0	73.6	0.0
45°	210.6	145.1	77.7	0.0
42.5°	220.8	149.2	81.8	0.0
40°	231.0	153.3	83.8	0.0
37.5°	241.2	157.4	87.9	0.0
35°	251.4	161.5	89.9	0.0
32.5°	259.6	165.6	92.0	0.0
30°	267.8	169.7	94.0	0.0
27.5°	276.0	171.7	96.1	0.0
25°	282.1	175.8	98.1	0.0
22.5°	288.2	177.9	100.2	0.0
20°	292.3	179.9	102.2	0.0
17.5°	298.5	181.9	104.3	0.0
15°	300.5	184.0	108.3	0.0
12.5°	304.6	186.0	108.3	0.0
10°	306.6	188.1	108.3	0.0
7.5°	310.7	188.1	108.3	0.0
5°	308.7	188.1	108.3	0.0
2.5°	308.7	188.1	108.3	0.0
0°	306.6	188.1	108.3	0.0

(END OF REPORT)