

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: P624497

Luminaire Tested: **IFLD-S-SA2C-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624497
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

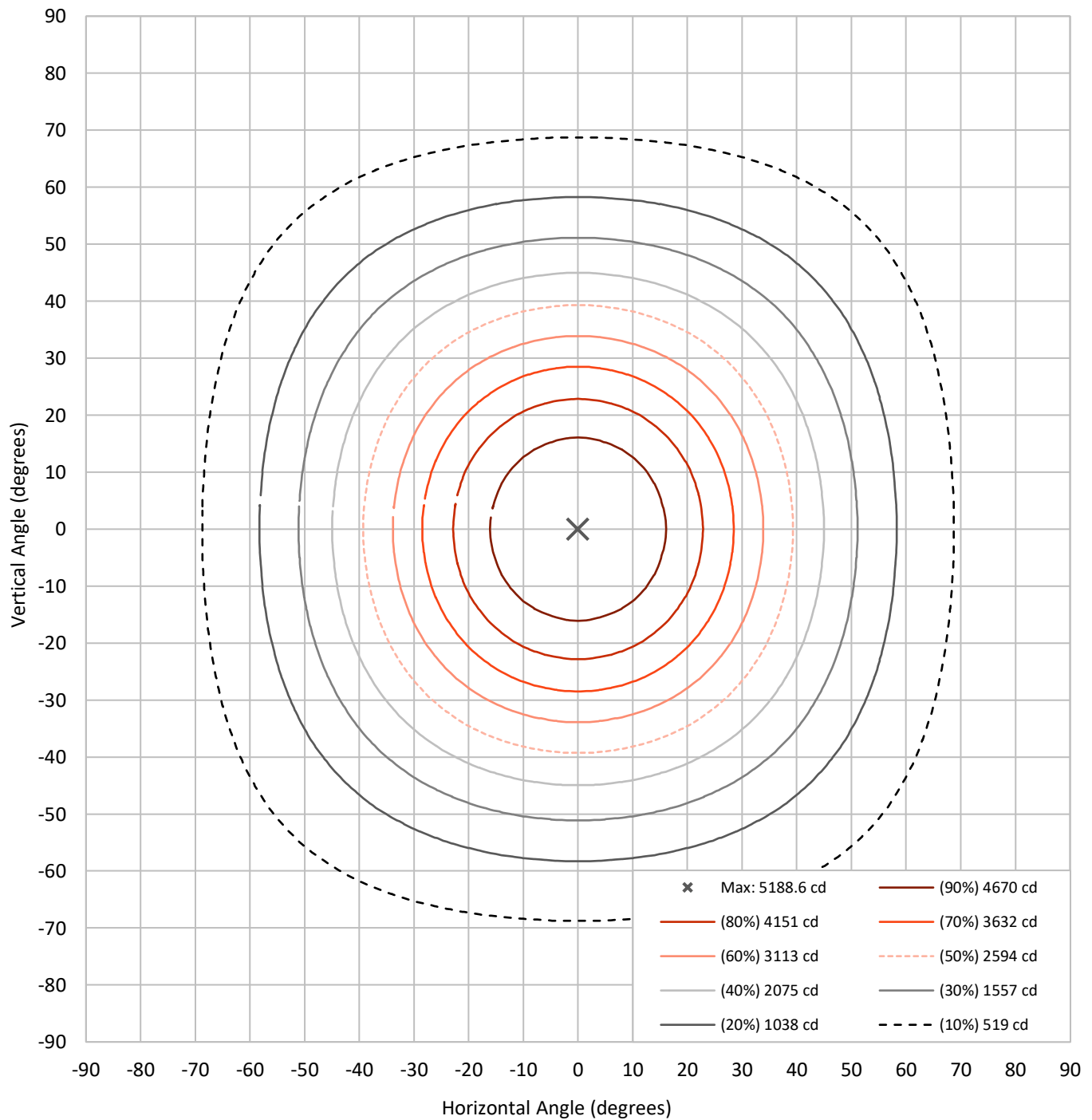
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9342.2 lumens	Max Intensity:	5188.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	86.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4042.3 lumens	Field Lumens:	6619.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	108.2		
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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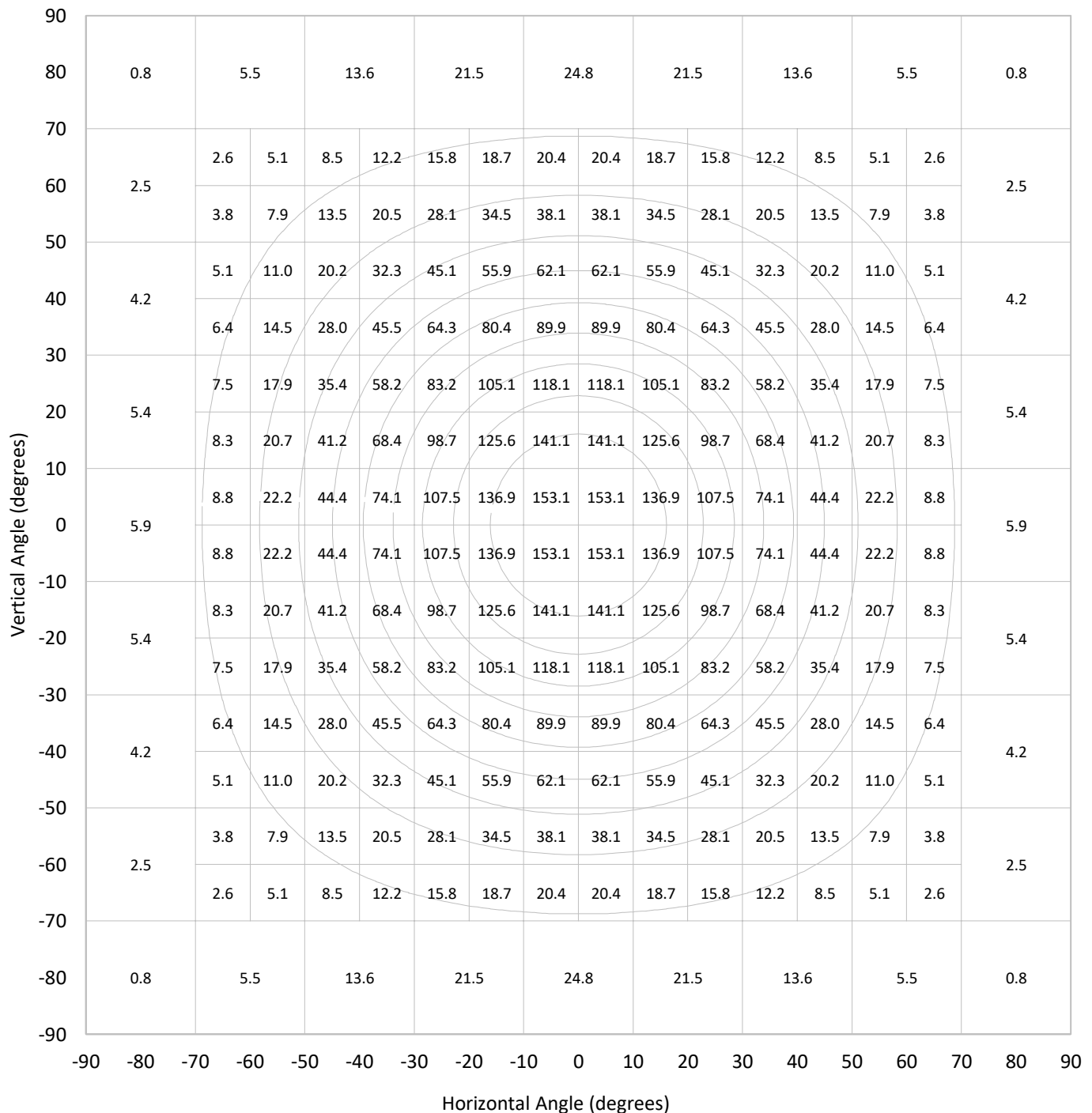
CATALOG NUMBER: IFLD-S-SA2C-927-U-77

Iso-Candela Plot



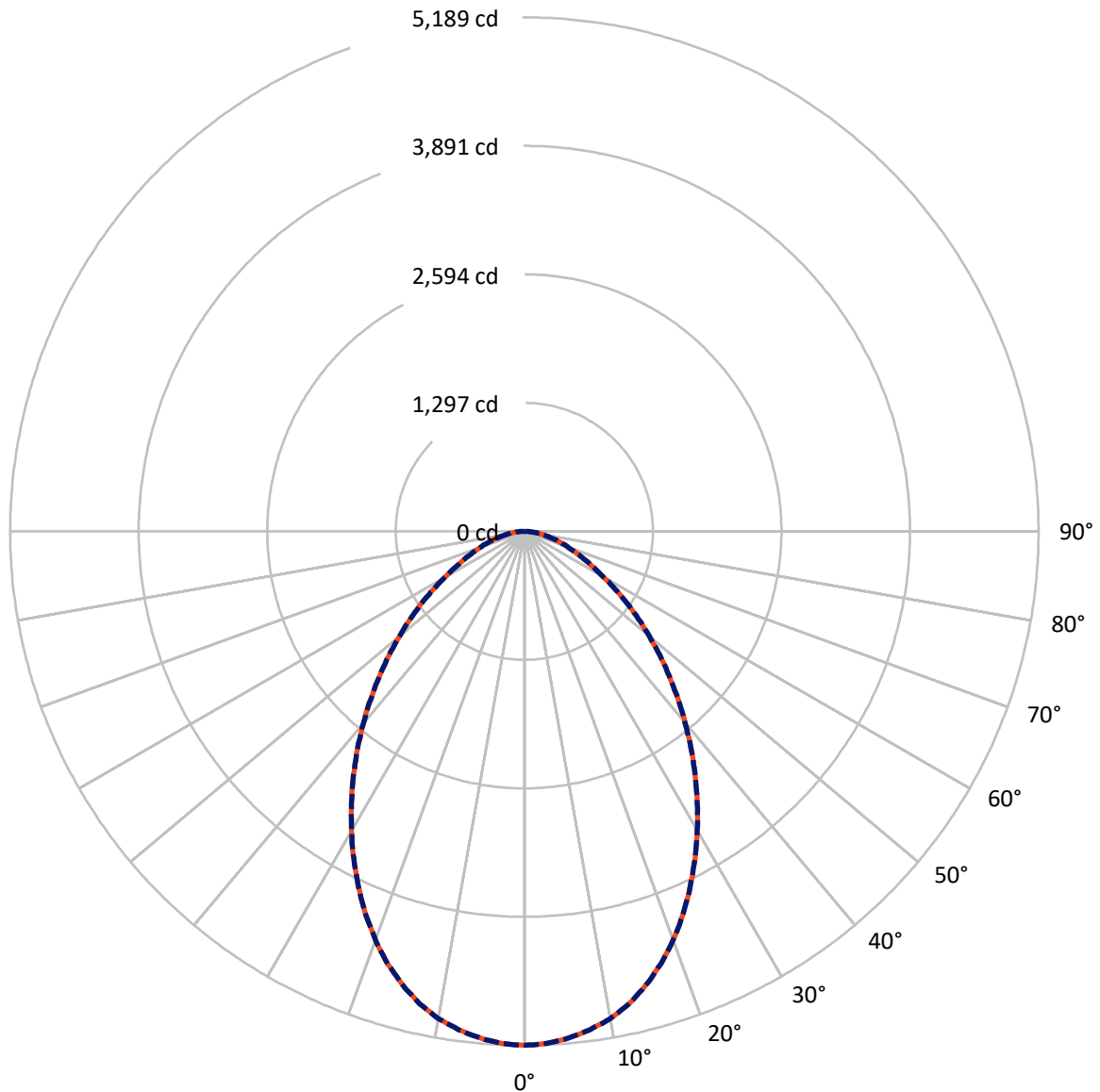
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Lumen Table



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Luminous Intensity Polar Plot

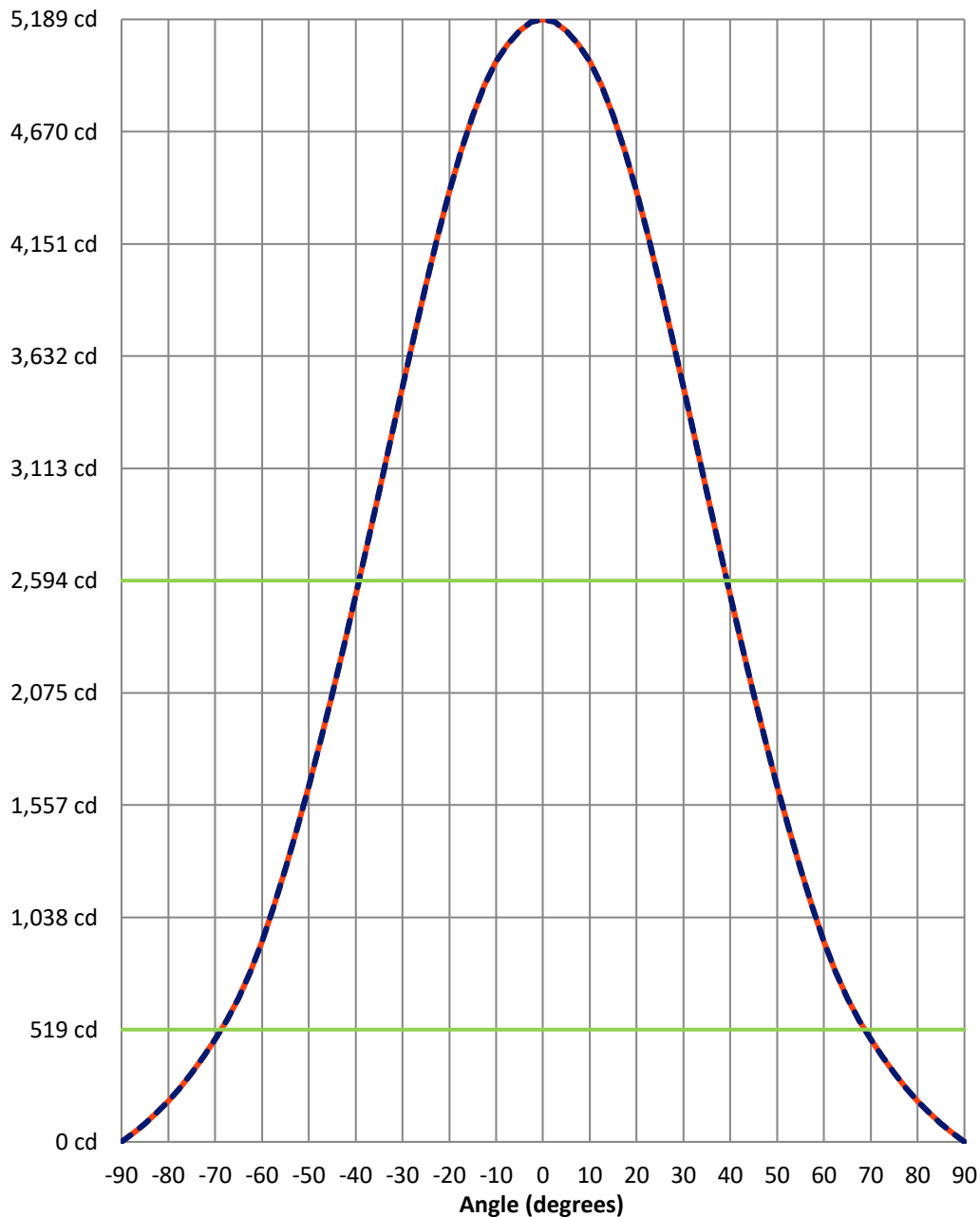


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4042.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 6619.1
Efficiency: 70.9%

Spill:

Lumens: 2723.1
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	38.0	38.0	37.0	36.0
85°	83.8	83.8	83.8	83.8	83.8	81.8	80.8	79.9	78.9	76.9	76.0
82.5°	134.4	134.4	134.4	134.4	132.5	130.5	129.5	127.6	125.6	122.7	119.8
80°	188.0	188.0	188.0	188.0	185.1	183.1	180.2	178.2	175.3	171.4	167.5
77.5°	249.3	249.3	249.3	246.4	244.5	241.6	238.6	234.7	230.8	226.0	220.1
75°	318.5	318.5	318.5	314.6	311.7	308.8	303.9	299.0	293.2	286.4	278.6
72.5°	393.5	393.5	393.5	388.6	385.7	380.8	375.0	368.2	361.4	352.6	342.9
70°	474.3	474.3	474.3	468.5	463.6	458.8	451.0	443.2	433.4	423.7	412.0
67.5°	562.0	562.0	562.0	555.2	549.3	542.5	533.8	524.0	512.3	498.7	485.1
65°	664.3	664.3	660.4	654.5	647.7	638.0	627.3	613.6	599.0	581.5	563.0
62.5°	785.1	785.1	779.2	772.4	763.6	751.0	736.4	718.8	698.4	676.0	653.6
60°	925.3	925.3	918.5	909.7	897.1	881.5	862.0	839.6	814.3	786.0	758.8
57.5°	1087.0	1087.0	1078.2	1066.5	1051.0	1031.5	1007.1	978.9	946.7	911.7	877.6
55°	1262.3	1262.3	1251.6	1238.0	1219.5	1196.1	1166.9	1133.8	1094.8	1054.9	1011.0
52.5°	1448.4	1448.4	1435.7	1420.1	1398.7	1371.4	1338.3	1299.3	1254.5	1207.8	1156.2
50°	1644.1	1644.1	1629.5	1612.0	1587.6	1555.5	1517.5	1472.7	1423.0	1368.5	1309.1
47.5°	1853.6	1853.6	1837.0	1816.5	1787.3	1750.3	1705.5	1653.9	1597.4	1536.0	1468.8
45°	2068.8	2068.8	2050.3	2026.9	1994.8	1952.9	1903.2	1853.6	1781.5	1710.4	1632.5
42.5°	2292.8	2292.8	2271.4	2245.1	2208.1	2162.3	2105.8	2041.5	1970.4	1890.6	1805.8
40°	2525.6	2525.6	2501.3	2471.1	2430.2	2377.6	2314.3	2242.2	2162.3	2073.7	1980.2
37.5°	2763.3	2763.3	2736.0	2702.9	2657.1	2598.7	2527.6	2447.7	2358.1	2259.7	2156.5
35°	3002.9	3002.9	2972.7	2936.7	2886.0	2821.7	2744.8	2656.1	2556.8	2449.6	2333.7
32.5°	3247.4	3247.4	3214.3	3173.3	3115.9	3044.8	2960.0	2863.6	2763.3	2638.6	2512.0
30°	3488.9	3488.9	3452.9	3408.1	3346.7	3268.8	3176.3	3070.1	2952.2	2824.6	2688.3
27.5°	3726.6	3716.8	3686.6	3638.9	3571.7	3488.9	3388.6	3273.7	3146.1	3005.8	2859.7
25°	3960.3	3949.6	3916.5	3863.9	3791.8	3701.3	3593.1	3470.4	3333.1	3185.0	3025.3
22.5°	4184.4	4172.7	4137.6	4081.1	4004.2	3905.8	3789.9	3658.4	3512.3	3353.5	3185.0
20°	4391.8	4379.2	4343.1	4283.7	4203.9	4099.6	3976.9	3835.7	3679.8	3512.3	3333.1
17.5°	4578.8	4566.2	4528.2	4466.8	4391.8	4275.9	4149.3	4000.3	3835.7	3658.4	3470.4
15°	4743.5	4729.8	4690.9	4629.5	4543.8	4434.7	4301.3	4149.3	3976.9	3789.9	3593.1
12.5°	4883.7	4870.1	4830.1	4768.8	4680.1	4571.1	4434.7	4275.9	4099.6	3905.8	3701.3
10°	4994.8	4981.1	4943.1	4884.7	4793.1	4680.1	4543.8	4391.8	4203.9	4004.2	3791.8
7.5°	5074.6	5062.0	5026.9	4968.5	4884.7	4768.8	4629.5	4466.8	4283.7	4081.1	3863.9
5°	5135.0	5120.4	5085.3	5026.9	4943.1	4830.1	4690.9	4528.2	4343.1	4137.6	3916.5
2.5°	5176.9	5159.4	5120.4	5062.0	4981.1	4870.1	4729.8	4566.2	4379.2	4172.7	3949.6
0°	5188.6	5176.9	5135.0	5074.6	4994.8	4883.7	4743.5	4578.8	4391.8	4184.4	3960.3

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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°	35.1	35.1	34.1	33.1	32.1	30.2	29.2	28.2	27.3	25.3	24.4
85°	74.0	72.1	70.1	68.2	65.3	63.3	60.4	58.4	55.5	52.6	49.7
82.5°	116.9	114.0	110.1	107.1	103.2	98.4	94.5	89.6	84.7	80.8	76.0
80°	163.6	158.8	153.9	149.0	143.2	137.3	131.5	125.6	118.8	112.0	105.2
77.5°	214.3	207.5	200.6	192.9	186.0	178.2	170.5	162.7	153.9	145.1	136.4
75°	270.8	262.0	252.3	242.5	233.8	223.0	212.3	201.6	189.9	179.2	167.5
72.5°	332.1	321.4	309.7	298.0	285.4	271.8	258.1	243.5	229.9	216.2	201.6
70°	398.4	385.7	371.1	356.5	340.9	324.3	307.8	290.3	272.7	255.2	237.7
67.5°	469.5	453.9	436.4	418.8	399.3	379.9	360.4	339.9	318.5	297.1	276.6
65°	545.4	526.0	505.5	483.1	460.7	438.3	414.9	390.6	366.2	340.9	318.5
62.5°	630.2	605.8	579.5	552.3	526.9	499.7	474.3	444.2	414.9	386.7	358.4
60°	728.6	696.4	664.3	630.2	598.0	563.0	531.8	498.7	465.6	433.4	400.3
57.5°	838.6	797.7	758.8	717.8	675.0	636.0	596.1	556.2	519.2	481.2	445.1
55°	963.3	913.6	864.9	814.3	764.6	715.9	665.3	620.4	574.7	531.8	489.9
52.5°	1099.7	1043.2	982.8	925.3	862.0	801.6	745.1	688.6	635.1	583.4	535.7
50°	1245.8	1179.5	1110.4	1040.2	968.2	897.1	828.9	762.7	700.3	639.9	583.4
47.5°	1397.7	1322.7	1243.8	1163.9	1087.0	1000.3	918.5	843.5	768.5	700.3	635.1
45°	1553.6	1468.8	1382.1	1291.5	1201.0	1107.5	1016.9	925.3	843.5	762.7	688.6
42.5°	1714.3	1618.8	1522.4	1422.1	1321.7	1219.5	1117.2	1016.9	918.5	828.9	745.1
40°	1879.9	1774.7	1664.6	1555.5	1448.4	1331.5	1219.5	1107.5	1000.3	897.1	801.6
37.5°	2045.4	1930.5	1811.7	1688.9	1566.2	1448.4	1321.7	1201.0	1087.0	968.2	862.0
35°	2212.0	2085.4	1956.8	1823.4	1688.9	1555.5	1422.1	1291.5	1163.9	1040.2	925.3
32.5°	2379.5	2241.2	2099.0	1956.8	1811.7	1664.6	1522.4	1382.1	1243.8	1110.4	982.8
30°	2544.1	2394.1	2241.2	2085.4	1930.5	1774.7	1618.8	1468.8	1322.7	1179.5	1043.2
27.5°	2704.8	2544.1	2379.5	2212.0	2045.4	1879.9	1714.3	1553.6	1397.7	1245.8	1099.7
25°	2859.7	2688.3	2512.0	2333.7	2156.5	1980.2	1805.8	1632.5	1468.8	1309.1	1156.2
22.5°	3005.8	2824.6	2638.6	2449.6	2259.7	2073.7	1890.6	1710.4	1536.0	1368.5	1207.8
20°	3146.1	2952.2	2763.3	2556.8	2358.1	2162.3	1970.4	1781.5	1597.4	1423.0	1254.5
17.5°	3273.7	3070.1	2863.6	2656.1	2447.7	2242.2	2041.5	1853.6	1653.9	1472.7	1299.3
15°	3388.6	3176.3	2960.0	2744.8	2527.6	2314.3	2105.8	1903.2	1705.5	1517.5	1338.3
12.5°	3488.9	3268.8	3044.8	2821.7	2598.7	2377.6	2162.3	1952.9	1750.3	1555.5	1371.4
10°	3571.7	3346.7	3115.9	2886.0	2657.1	2430.2	2208.1	1994.8	1787.3	1587.6	1398.7
7.5°	3638.9	3408.1	3173.3	2936.7	2702.9	2471.1	2245.1	2026.9	1816.5	1612.0	1420.1
5°	3686.6	3452.9	3214.3	2972.7	2736.0	2501.3	2271.4	2050.3	1837.0	1629.5	1435.7
2.5°	3716.8	3488.9	3247.4	3002.9	2763.3	2525.6	2292.8	2068.8	1853.6	1644.1	1448.4
0°	3726.6	3488.9	3247.4	3002.9	2763.3	2525.6	2292.8	2068.8	1853.6	1644.1	1448.4

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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°	23.4	21.4	19.5	18.5	16.6	15.6	13.6	11.7	10.7	8.8	6.8
85°	46.8	42.9	39.9	37.0	34.1	30.2	27.3	24.4	20.5	17.5	13.6
82.5°	71.1	66.2	61.4	56.5	51.6	46.8	40.9	36.0	31.2	26.3	20.5
80°	98.4	90.6	83.8	76.9	70.1	63.3	55.5	48.7	40.9	34.1	27.3
77.5°	126.6	117.9	108.1	98.4	88.6	79.9	70.1	61.4	52.6	42.9	34.1
75°	156.8	145.1	134.4	121.8	110.1	97.4	85.7	74.0	63.3	52.6	40.9
72.5°	188.0	173.4	158.8	145.1	130.5	115.9	102.3	87.7	74.0	61.4	48.7
70°	220.1	202.6	185.1	168.5	151.9	134.4	118.8	102.3	85.7	70.1	55.5
67.5°	254.2	233.8	213.3	191.9	173.4	153.9	134.4	115.9	97.4	79.9	63.3
65°	291.2	266.9	241.6	219.2	194.8	173.4	151.9	130.5	110.1	88.6	70.1
62.5°	329.2	301.0	272.7	244.5	219.2	191.9	168.5	145.1	121.8	98.4	76.9
60°	368.2	336.0	303.9	272.7	241.6	213.3	185.1	158.8	134.4	108.1	83.8
57.5°	408.1	372.1	336.0	301.0	266.9	233.8	202.6	173.4	145.1	117.9	90.6
55°	449.0	408.1	368.2	329.2	291.2	254.2	220.1	188.0	156.8	126.6	98.4
52.5°	489.9	445.1	400.3	358.4	318.5	276.6	237.7	201.6	167.5	136.4	105.2
50°	531.8	481.2	433.4	386.7	340.9	297.1	255.2	216.2	179.2	145.1	112.0
47.5°	574.7	519.2	465.6	414.9	366.2	318.5	272.7	229.9	189.9	153.9	118.8
45°	620.4	556.2	498.7	444.2	390.6	339.9	290.3	243.5	201.6	162.7	125.6
42.5°	665.3	596.1	531.8	474.3	414.9	360.4	307.8	258.1	212.3	170.5	131.5
40°	715.9	636.0	563.0	499.7	438.3	379.9	324.3	271.8	223.0	178.2	137.3
37.5°	764.6	675.0	598.0	526.9	460.7	399.3	340.9	285.4	233.8	186.0	143.2
35°	814.3	717.8	630.2	552.3	483.1	418.8	356.5	298.0	242.5	192.9	149.0
32.5°	864.9	758.8	664.3	579.5	505.5	436.4	371.1	309.7	252.3	200.6	153.9
30°	913.6	797.7	696.4	605.8	526.0	453.9	385.7	321.4	262.0	207.5	158.8
27.5°	963.3	838.6	728.6	630.2	545.4	469.5	398.4	332.1	270.8	214.3	163.6
25°	1011.0	877.6	758.8	653.6	563.0	485.1	412.0	342.9	278.6	220.1	167.5
22.5°	1054.9	911.7	786.0	676.0	581.5	498.7	423.7	352.6	286.4	226.0	171.4
20°	1094.8	946.7	814.3	698.4	599.0	512.3	433.4	361.4	293.2	230.8	175.3
17.5°	1133.8	978.9	839.6	718.8	613.6	524.0	443.2	368.2	299.0	234.7	178.2
15°	1166.9	1007.1	862.0	736.4	627.3	533.8	451.0	375.0	303.9	238.6	180.2
12.5°	1196.1	1031.5	881.5	751.0	638.0	542.5	458.8	380.8	308.8	241.6	183.1
10°	1219.5	1051.0	897.1	763.6	647.7	549.3	463.6	385.7	311.7	244.5	185.1
7.5°	1238.0	1066.5	909.7	772.4	654.5	555.2	468.5	388.6	314.6	246.4	188.0
5°	1251.6	1078.2	918.5	779.2	660.4	562.0	474.3	393.5	318.5	249.3	188.0
2.5°	1262.3	1087.0	925.3	785.1	664.3	562.0	474.3	393.5	318.5	249.3	188.0
0°	1262.3	1087.0	925.3	785.1	664.3	562.0	474.3	393.5	318.5	249.3	188.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.9	3.9	1.9	0.0
85°	10.7	6.8	3.9	0.0
82.5°	15.6	10.7	4.9	0.0
80°	20.5	13.6	6.8	0.0
77.5°	26.3	17.5	8.8	0.0
75°	31.2	20.5	10.7	0.0
72.5°	36.0	24.4	11.7	0.0
70°	40.9	27.3	13.6	0.0
67.5°	46.8	30.2	15.6	0.0
65°	51.6	34.1	16.6	0.0
62.5°	56.5	37.0	18.5	0.0
60°	61.4	39.9	19.5	0.0
57.5°	66.2	42.9	21.4	0.0
55°	71.1	46.8	23.4	0.0
52.5°	76.0	49.7	24.4	0.0
50°	80.8	52.6	25.3	0.0
47.5°	84.7	55.5	27.3	0.0
45°	89.6	58.4	28.2	0.0
42.5°	94.5	60.4	29.2	0.0
40°	98.4	63.3	30.2	0.0
37.5°	103.2	65.3	32.1	0.0
35°	107.1	68.2	33.1	0.0
32.5°	110.1	70.1	34.1	0.0
30°	114.0	72.1	35.1	0.0
27.5°	116.9	74.0	35.1	0.0
25°	119.8	76.0	36.0	0.0
22.5°	122.7	76.9	37.0	0.0
20°	125.6	78.9	38.0	0.0
17.5°	127.6	79.9	38.0	0.0
15°	129.5	80.8	39.9	0.0
12.5°	130.5	81.8	39.9	0.0
10°	132.5	83.8	39.9	0.0
7.5°	134.4	83.8	39.9	0.0
5°	134.4	83.8	39.9	0.0
2.5°	134.4	83.8	39.9	0.0
0°	134.4	83.8	39.9	0.0

(END OF REPORT)