

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: P624500

Luminaire Tested: **IFLD-S-SA3A-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624500
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

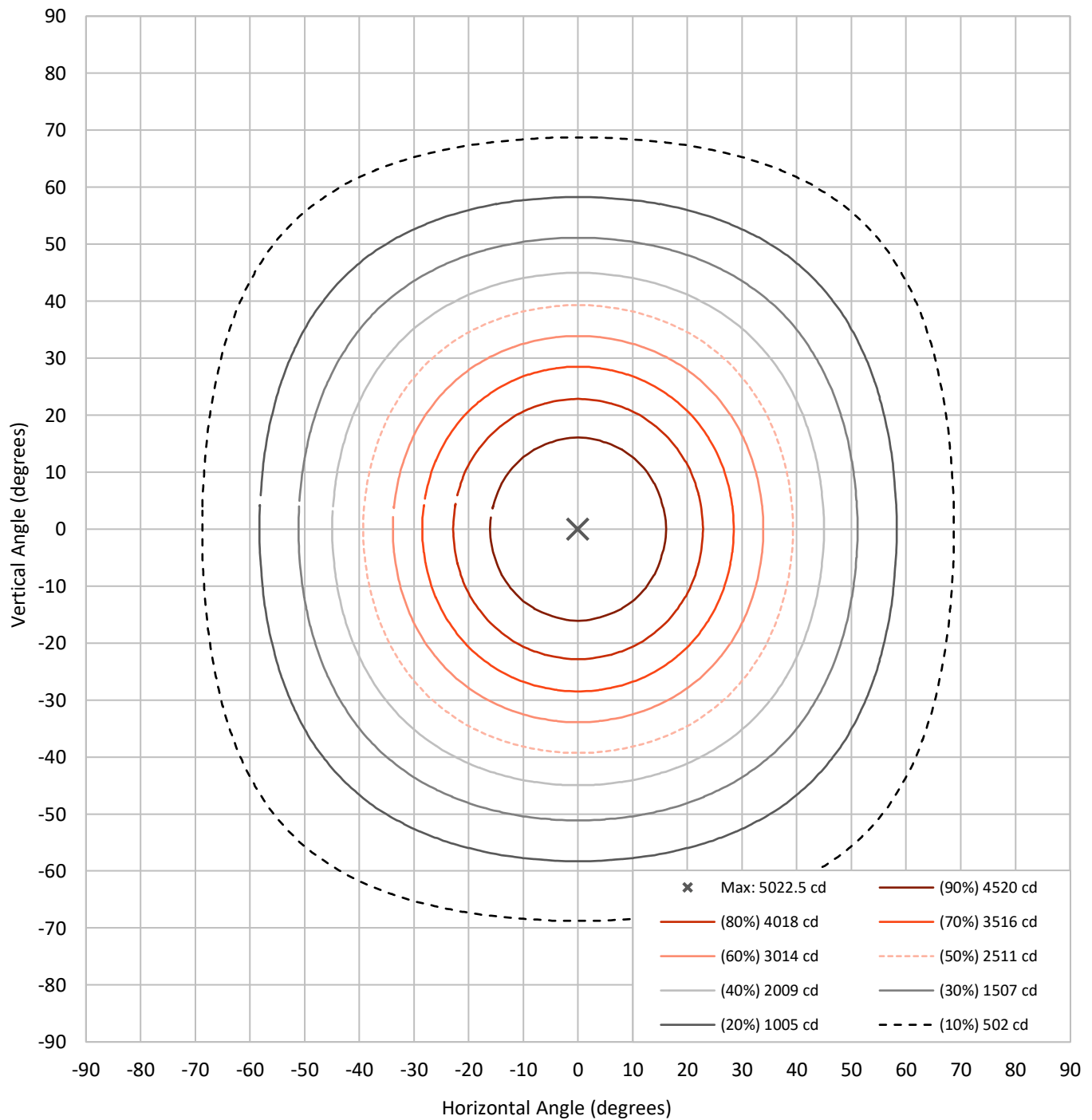
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9043.2 lumens	Max Intensity:	5022.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	3912.9 lumens	Field Lumens:	6407.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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		



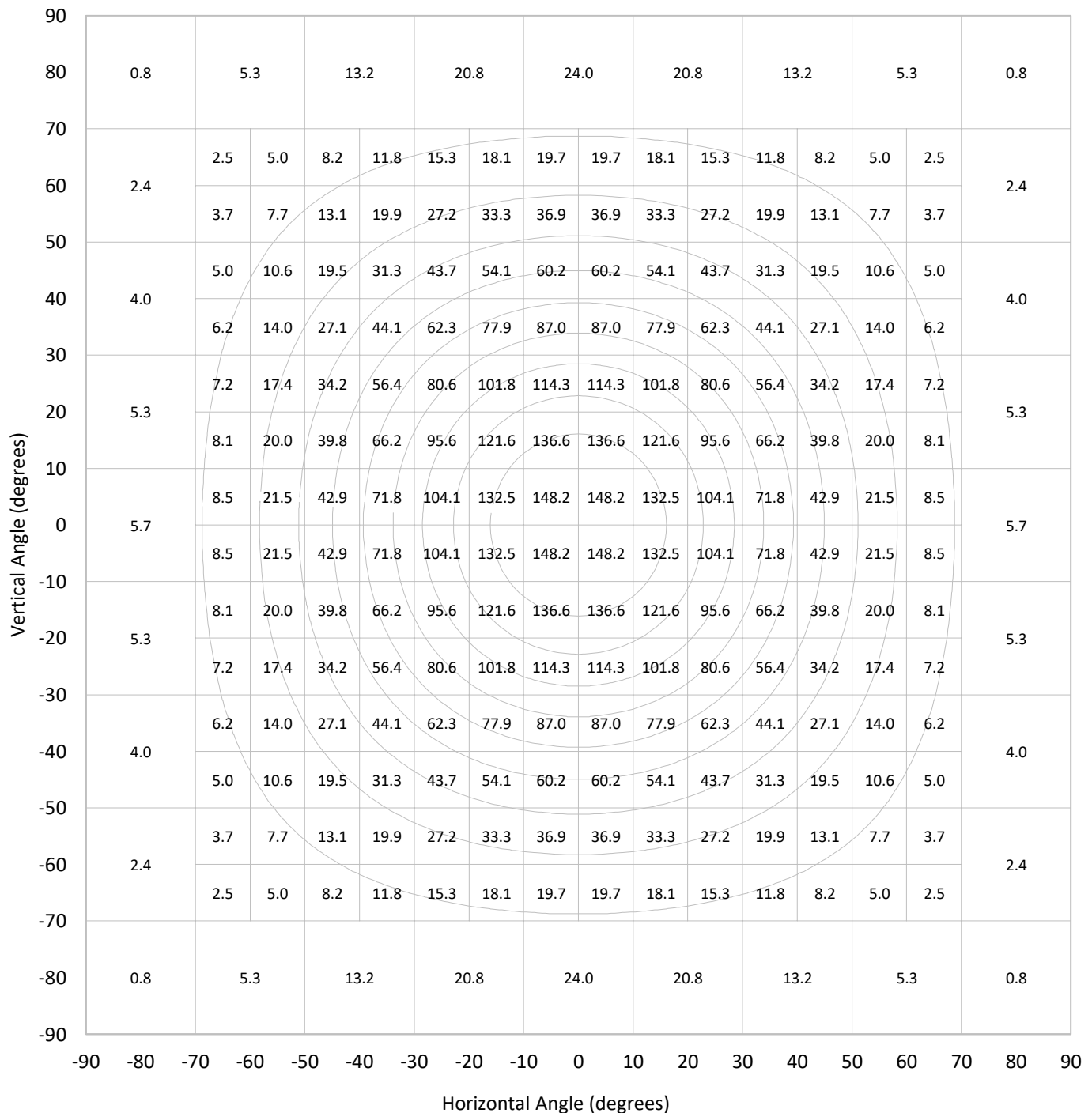
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Iso-Candela Plot



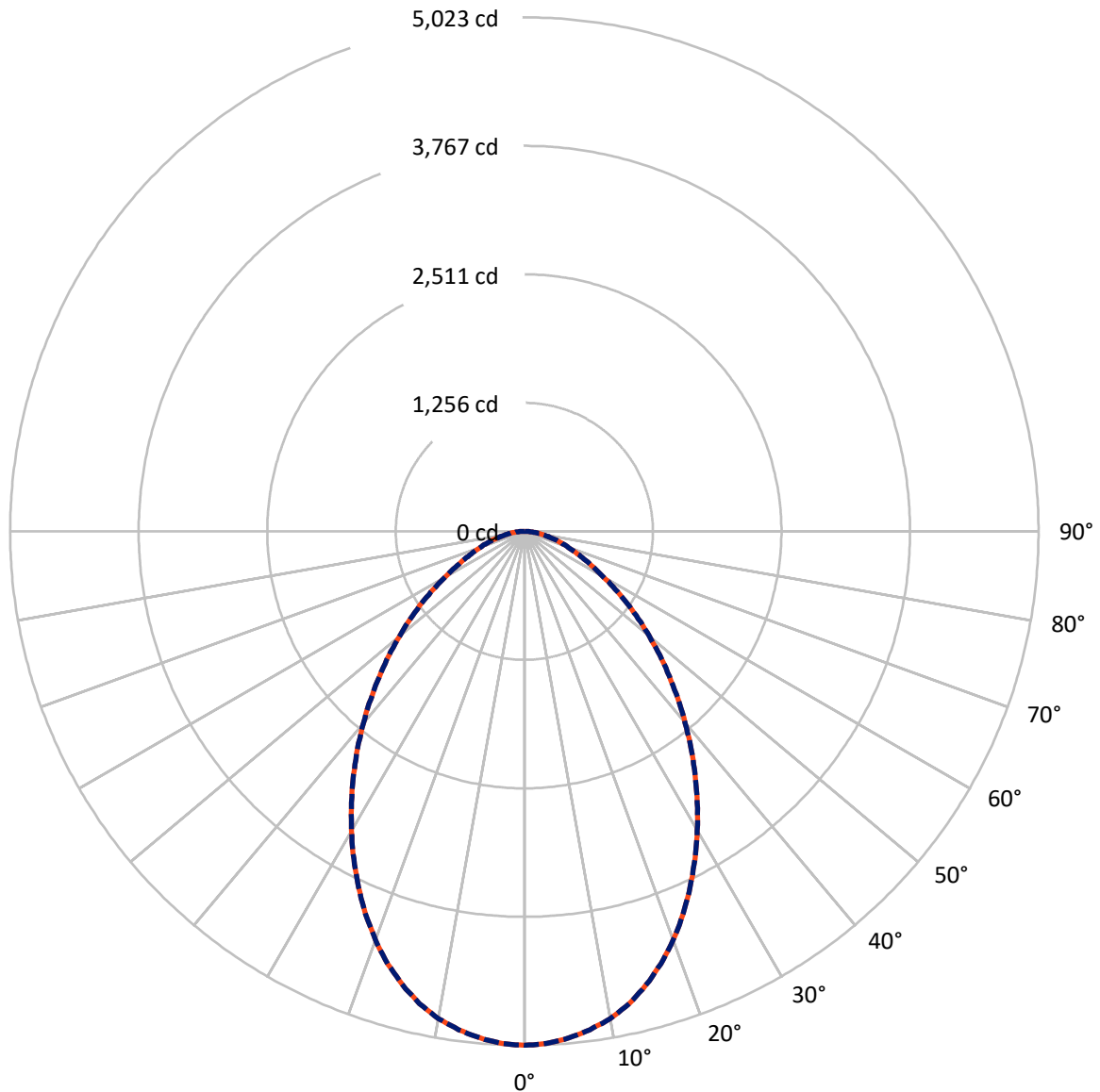
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Lumen Table



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Luminous Intensity Polar Plot

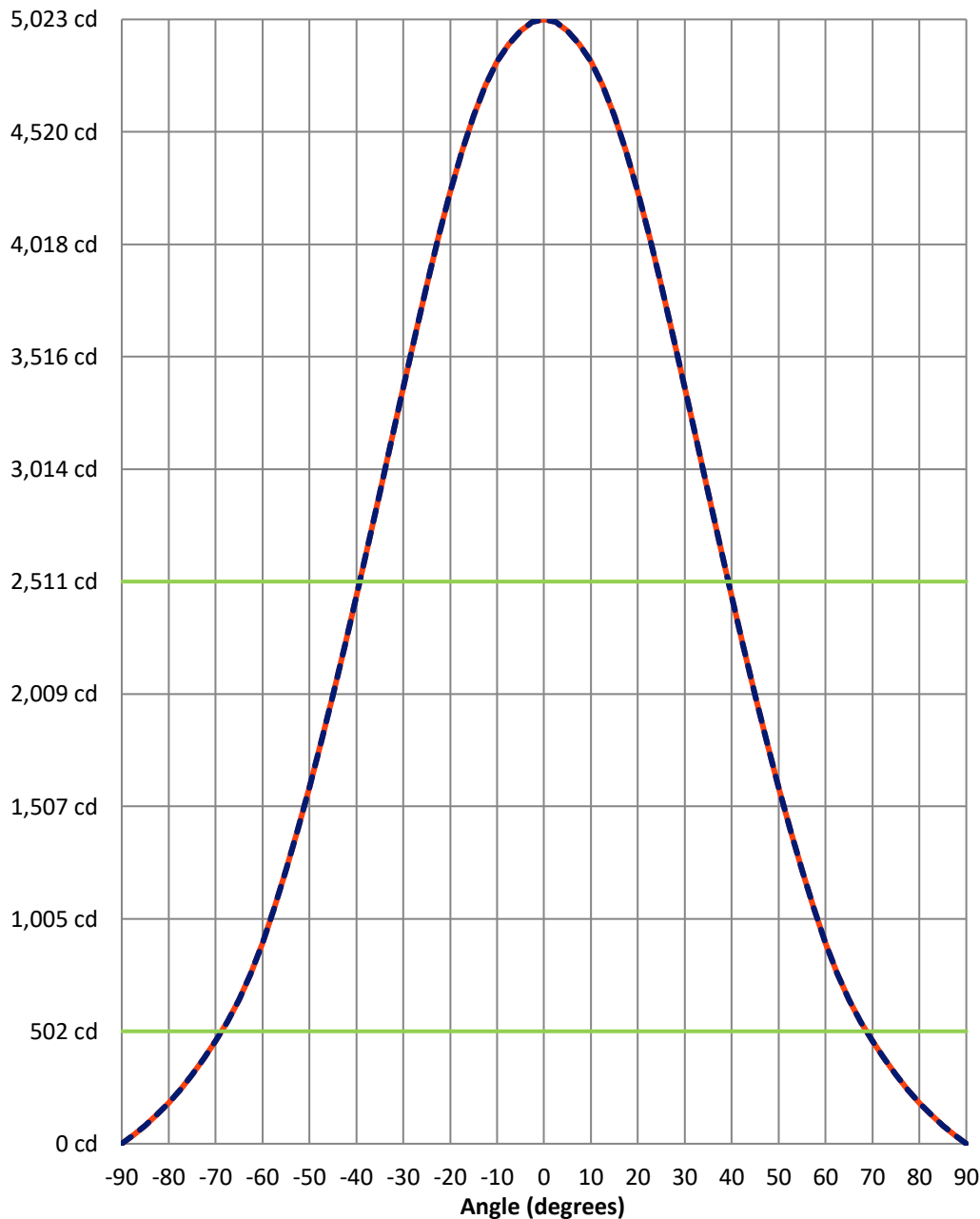


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 3912.9

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 6407.2

Efficiency: 70.9%

Spill:

Lumens: 2636

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°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	36.8	36.8	35.8	34.9
85°	81.1	81.1	81.1	81.1	81.1	79.2	78.3	77.3	76.4	74.5	73.5
82.5°	130.1	130.1	130.1	130.1	128.2	126.3	125.4	123.5	121.6	118.8	116.0
80°	182.0	182.0	182.0	182.0	179.1	177.3	174.4	172.5	169.7	165.9	162.2
77.5°	241.4	241.4	241.4	238.5	236.7	233.8	231.0	227.2	223.5	218.7	213.1
75°	308.3	308.3	308.3	304.5	301.7	298.9	294.2	289.5	283.8	277.2	269.7
72.5°	380.9	380.9	380.9	376.2	373.4	368.7	363.0	356.4	349.8	341.3	331.9
70°	459.2	459.2	459.2	453.5	448.8	444.1	436.5	429.0	419.6	410.1	398.8
67.5°	544.0	544.0	544.0	537.4	531.8	525.2	516.7	507.3	495.9	482.7	469.5
65°	643.0	643.0	639.2	633.6	627.0	617.6	607.2	594.0	579.8	562.9	545.0
62.5°	759.9	759.9	754.3	747.7	739.2	726.9	712.8	695.8	676.0	654.3	632.6
60°	895.7	895.7	889.1	880.6	868.4	853.3	834.4	812.7	788.2	760.9	734.5
57.5°	1052.2	1052.2	1043.7	1032.4	1017.3	998.5	974.9	947.6	916.4	882.5	849.5
55°	1221.9	1221.9	1211.6	1198.4	1180.4	1157.8	1129.5	1097.5	1059.8	1021.1	978.7
52.5°	1402.0	1402.0	1389.8	1374.7	1353.9	1327.5	1295.5	1257.8	1214.4	1169.1	1119.2
50°	1591.5	1591.5	1577.4	1560.4	1536.8	1505.7	1469.0	1425.6	1377.5	1324.7	1267.2
47.5°	1794.2	1794.2	1778.2	1758.4	1730.1	1694.3	1650.9	1600.9	1546.3	1486.9	1421.8
45°	2002.6	2002.6	1984.7	1962.1	1930.9	1890.4	1842.3	1794.2	1724.5	1655.6	1580.2
42.5°	2219.5	2219.5	2198.7	2173.3	2137.4	2093.1	2038.4	1976.2	1907.4	1830.1	1748.0
40°	2444.8	2444.8	2421.2	2392.0	2352.4	2301.5	2240.2	2170.4	2093.1	2007.3	1916.8
37.5°	2674.8	2674.8	2648.4	2616.4	2572.1	2515.5	2446.7	2369.4	2282.6	2187.4	2087.5
35°	2906.8	2906.8	2877.6	2842.7	2793.6	2731.4	2656.9	2571.1	2475.0	2371.3	2259.1
32.5°	3143.4	3143.4	3111.4	3071.8	3016.2	2947.3	2865.3	2772.0	2674.8	2554.2	2431.6
30°	3377.3	3377.3	3342.4	3299.0	3239.6	3164.2	3074.6	2971.8	2857.8	2734.2	2602.2
27.5°	3607.3	3597.9	3568.7	3522.5	3457.4	3377.3	3280.2	3168.9	3045.4	2909.6	2768.2
25°	3833.6	3823.2	3791.2	3740.3	3670.5	3582.8	3478.2	3359.4	3226.4	3083.1	2928.5
22.5°	4050.5	4039.1	4005.2	3950.5	3876.0	3780.8	3668.6	3541.3	3399.9	3246.2	3083.1
20°	4251.3	4239.0	4204.1	4146.6	4069.3	3968.4	3849.6	3712.9	3562.1	3399.9	3226.4
17.5°	4432.3	4420.1	4383.3	4323.9	4251.3	4139.1	4016.5	3872.3	3712.9	3541.3	3359.4
15°	4591.7	4578.5	4540.7	4481.3	4398.4	4292.8	4163.6	4016.5	3849.6	3668.6	3478.2
12.5°	4727.4	4714.2	4675.6	4616.2	4530.4	4424.8	4292.8	4139.1	3968.4	3780.8	3582.8
10°	4834.9	4821.7	4784.9	4728.4	4639.7	4530.4	4398.4	4251.3	4069.3	3876.0	3670.5
7.5°	4912.2	4900.0	4866.0	4809.4	4728.4	4616.2	4481.3	4323.9	4146.6	3950.5	3740.3
5°	4970.7	4956.5	4922.6	4866.0	4784.9	4675.6	4540.7	4383.3	4204.1	4005.2	3791.2
2.5°	5011.2	4994.2	4956.5	4900.0	4821.7	4714.2	4578.5	4420.1	4239.0	4039.1	3823.2
0°	5022.5	5011.2	4970.7	4912.2	4834.9	4727.4	4591.7	4432.3	4251.3	4050.5	3833.6

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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°	33.9	33.9	33.0	32.1	31.1	29.2	28.3	27.3	26.4	24.5	23.6
85°	71.7	69.8	67.9	66.0	63.2	61.3	58.5	56.6	53.7	50.9	48.1
82.5°	113.1	110.3	106.5	103.7	99.9	95.2	91.5	86.7	82.0	78.3	73.5
80°	158.4	153.7	149.0	144.3	138.6	132.9	127.3	121.6	115.0	108.4	101.8
77.5°	207.4	200.8	194.2	186.7	180.1	172.5	165.0	157.5	149.0	140.5	132.0
75°	262.1	253.6	244.2	234.8	226.3	215.9	205.5	195.2	183.9	173.5	162.2
72.5°	321.5	311.1	299.8	288.5	276.3	263.1	249.9	235.7	222.5	209.3	195.2
70°	385.6	373.4	359.2	345.1	330.0	314.0	297.9	281.0	264.0	247.0	230.1
67.5°	454.5	439.4	422.4	405.4	386.6	367.7	348.9	329.1	308.3	287.6	267.8
65°	528.0	509.1	489.3	467.7	446.0	424.3	401.7	378.1	354.5	330.0	308.3
62.5°	610.0	586.4	561.0	534.6	510.1	483.7	459.2	429.9	401.7	374.3	347.0
60°	705.2	674.1	643.0	610.0	578.9	545.0	514.8	482.7	450.7	419.6	387.5
57.5°	811.8	772.2	734.5	694.9	653.4	615.7	577.0	538.4	502.5	465.8	430.9
55°	932.5	884.4	837.2	788.2	740.1	693.0	644.0	600.6	556.3	514.8	474.3
52.5°	1064.5	1009.8	951.3	895.7	834.4	776.0	721.3	666.6	614.7	564.8	518.6
50°	1205.9	1141.8	1074.8	1007.0	937.2	868.4	802.4	738.2	677.9	619.4	564.8
47.5°	1353.0	1280.4	1204.0	1126.7	1052.2	968.3	889.1	816.5	743.9	677.9	614.7
45°	1503.8	1421.8	1337.9	1250.2	1162.5	1072.0	984.3	895.7	816.5	738.2	666.6
42.5°	1659.4	1567.0	1473.7	1376.6	1279.4	1180.4	1081.4	984.3	889.1	802.4	721.3
40°	1819.7	1717.9	1611.3	1505.7	1402.0	1288.9	1180.4	1072.0	968.3	868.4	776.0
37.5°	1980.0	1868.7	1753.7	1634.9	1516.1	1402.0	1279.4	1162.5	1052.2	937.2	834.4
35°	2141.2	2018.6	1894.2	1765.0	1634.9	1505.7	1376.6	1250.2	1126.7	1007.0	895.7
32.5°	2303.4	2169.5	2031.8	1894.2	1753.7	1611.3	1473.7	1337.9	1204.0	1074.8	951.3
30°	2462.7	2317.5	2169.5	2018.6	1868.7	1717.9	1567.0	1421.8	1280.4	1141.8	1009.8
27.5°	2618.3	2462.7	2303.4	2141.2	1980.0	1819.7	1659.4	1503.8	1353.0	1205.9	1064.5
25°	2768.2	2602.2	2431.6	2259.1	2087.5	1916.8	1748.0	1580.2	1421.8	1267.2	1119.2
22.5°	2909.6	2734.2	2554.2	2371.3	2187.4	2007.3	1830.1	1655.6	1486.9	1324.7	1169.1
20°	3045.4	2857.8	2674.8	2475.0	2282.6	2093.1	1907.4	1724.5	1546.3	1377.5	1214.4
17.5°	3168.9	2971.8	2772.0	2571.1	2369.4	2170.4	1976.2	1794.2	1600.9	1425.6	1257.8
15°	3280.2	3074.6	2865.3	2656.9	2446.7	2240.2	2038.4	1842.3	1650.9	1469.0	1295.5
12.5°	3377.3	3164.2	2947.3	2731.4	2515.5	2301.5	2093.1	1890.4	1694.3	1505.7	1327.5
10°	3457.4	3239.6	3016.2	2793.6	2572.1	2352.4	2137.4	1930.9	1730.1	1536.8	1353.9
7.5°	3522.5	3299.0	3071.8	2842.7	2616.4	2392.0	2173.3	1962.1	1758.4	1560.4	1374.7
5°	3568.7	3342.4	3111.4	2877.6	2648.4	2421.2	2198.7	1984.7	1778.2	1577.4	1389.8
2.5°	3597.9	3377.3	3143.4	2906.8	2674.8	2444.8	2219.5	2002.6	1794.2	1591.5	1402.0
0°	3607.3	3377.3	3143.4	2906.8	2674.8	2444.8	2219.5	2002.6	1794.2	1591.5	1402.0

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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°	22.6	20.7	18.9	17.9	16.0	15.1	13.2	11.3	10.4	8.5	6.6
85°	45.3	41.5	38.7	35.8	33.0	29.2	26.4	23.6	19.8	17.0	13.2
82.5°	68.8	64.1	59.4	54.7	50.0	45.3	39.6	34.9	30.2	25.5	19.8
80°	95.2	87.7	81.1	74.5	67.9	61.3	53.7	47.1	39.6	33.0	26.4
77.5°	122.6	114.1	104.7	95.2	85.8	77.3	67.9	59.4	50.9	41.5	33.0
75°	151.8	140.5	130.1	117.9	106.5	94.3	83.0	71.7	61.3	50.9	39.6
72.5°	182.0	167.8	153.7	140.5	126.3	112.2	99.0	84.9	71.7	59.4	47.1
70°	213.1	196.1	179.1	163.1	147.1	130.1	115.0	99.0	83.0	67.9	53.7
67.5°	246.1	226.3	206.5	185.7	167.8	149.0	130.1	112.2	94.3	77.3	61.3
65°	281.9	258.3	233.8	212.1	188.6	167.8	147.1	126.3	106.5	85.8	67.9
62.5°	318.7	291.3	264.0	236.7	212.1	185.7	163.1	140.5	117.9	95.2	74.5
60°	356.4	325.3	294.2	264.0	233.8	206.5	179.1	153.7	130.1	104.7	81.1
57.5°	395.1	360.2	325.3	291.3	258.3	226.3	196.1	167.8	140.5	114.1	87.7
55°	434.7	395.1	356.4	318.7	281.9	246.1	213.1	182.0	151.8	122.6	95.2
52.5°	474.3	430.9	387.5	347.0	308.3	267.8	230.1	195.2	162.2	132.0	101.8
50°	514.8	465.8	419.6	374.3	330.0	287.6	247.0	209.3	173.5	140.5	108.4
47.5°	556.3	502.5	450.7	401.7	354.5	308.3	264.0	222.5	183.9	149.0	115.0
45°	600.6	538.4	482.7	429.9	378.1	329.1	281.0	235.7	195.2	157.5	121.6
42.5°	644.0	577.0	514.8	459.2	401.7	348.9	297.9	249.9	205.5	165.0	127.3
40°	693.0	615.7	545.0	483.7	424.3	367.7	314.0	263.1	215.9	172.5	132.9
37.5°	740.1	653.4	578.9	510.1	446.0	386.6	330.0	276.3	226.3	180.1	138.6
35°	788.2	694.9	610.0	534.6	467.7	405.4	345.1	288.5	234.8	186.7	144.3
32.5°	837.2	734.5	643.0	561.0	489.3	422.4	359.2	299.8	244.2	194.2	149.0
30°	884.4	772.2	674.1	586.4	509.1	439.4	373.4	311.1	253.6	200.8	153.7
27.5°	932.5	811.8	705.2	610.0	528.0	454.5	385.6	321.5	262.1	207.4	158.4
25°	978.7	849.5	734.5	632.6	545.0	469.5	398.8	331.9	269.7	213.1	162.2
22.5°	1021.1	882.5	760.9	654.3	562.9	482.7	410.1	341.3	277.2	218.7	165.9
20°	1059.8	916.4	788.2	676.0	579.8	495.9	419.6	349.8	283.8	223.5	169.7
17.5°	1097.5	947.6	812.7	695.8	594.0	507.3	429.0	356.4	289.5	227.2	172.5
15°	1129.5	974.9	834.4	712.8	607.2	516.7	436.5	363.0	294.2	231.0	174.4
12.5°	1157.8	998.5	853.3	726.9	617.6	525.2	444.1	368.7	298.9	233.8	177.3
10°	1180.4	1017.3	868.4	739.2	627.0	531.8	448.8	373.4	301.7	236.7	179.1
7.5°	1198.4	1032.4	880.6	747.7	633.6	537.4	453.5	376.2	304.5	238.5	182.0
5°	1211.6	1043.7	889.1	754.3	639.2	544.0	459.2	380.9	308.3	241.4	182.0
2.5°	1221.9	1052.2	895.7	759.9	643.0	544.0	459.2	380.9	308.3	241.4	182.0
0°	1221.9	1052.2	895.7	759.9	643.0	544.0	459.2	380.9	308.3	241.4	182.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.7	3.8	1.9	0.0
85°	10.4	6.6	3.8	0.0
82.5°	15.1	10.4	4.7	0.0
80°	19.8	13.2	6.6	0.0
77.5°	25.5	17.0	8.5	0.0
75°	30.2	19.8	10.4	0.0
72.5°	34.9	23.6	11.3	0.0
70°	39.6	26.4	13.2	0.0
67.5°	45.3	29.2	15.1	0.0
65°	50.0	33.0	16.0	0.0
62.5°	54.7	35.8	17.9	0.0
60°	59.4	38.7	18.9	0.0
57.5°	64.1	41.5	20.7	0.0
55°	68.8	45.3	22.6	0.0
52.5°	73.5	48.1	23.6	0.0
50°	78.3	50.9	24.5	0.0
47.5°	82.0	53.7	26.4	0.0
45°	86.7	56.6	27.3	0.0
42.5°	91.5	58.5	28.3	0.0
40°	95.2	61.3	29.2	0.0
37.5°	99.9	63.2	31.1	0.0
35°	103.7	66.0	32.1	0.0
32.5°	106.5	67.9	33.0	0.0
30°	110.3	69.8	33.9	0.0
27.5°	113.1	71.7	33.9	0.0
25°	116.0	73.5	34.9	0.0
22.5°	118.8	74.5	35.8	0.0
20°	121.6	76.4	36.8	0.0
17.5°	123.5	77.3	36.8	0.0
15°	125.4	78.3	38.7	0.0
12.5°	126.3	79.2	38.7	0.0
10°	128.2	81.1	38.7	0.0
7.5°	130.1	81.1	38.7	0.0
5°	130.1	81.1	38.7	0.0
2.5°	130.1	81.1	38.7	0.0
0°	130.1	81.1	38.7	0.0

(END OF REPORT)