

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: P624531

Luminaire Tested: **IFLD-S-SA3C-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624531
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

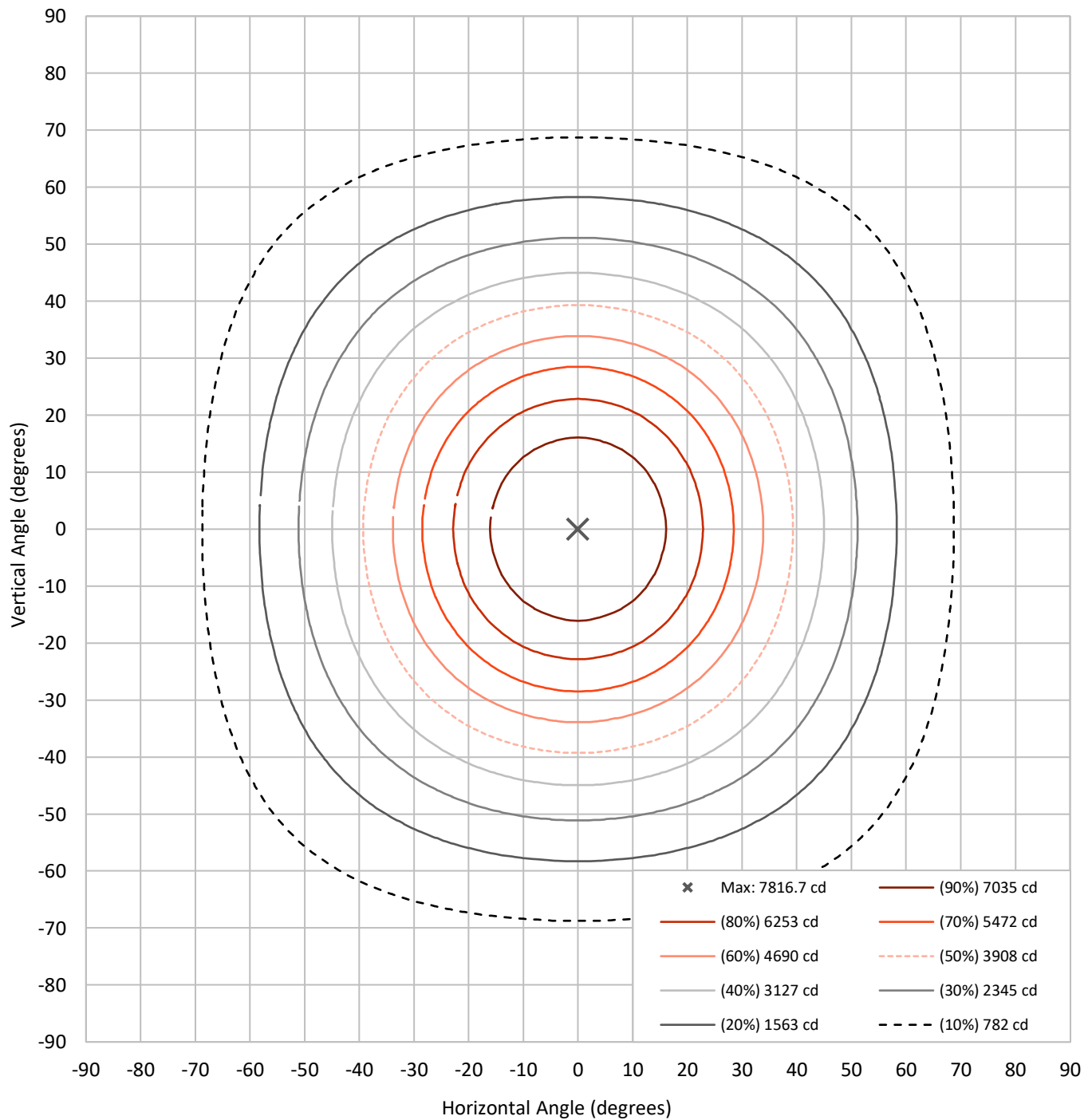
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14074.2 lumens	Max Intensity:	7816.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.5 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:	6089.8 lumens	Field Lumens:	9971.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	160.8		
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		



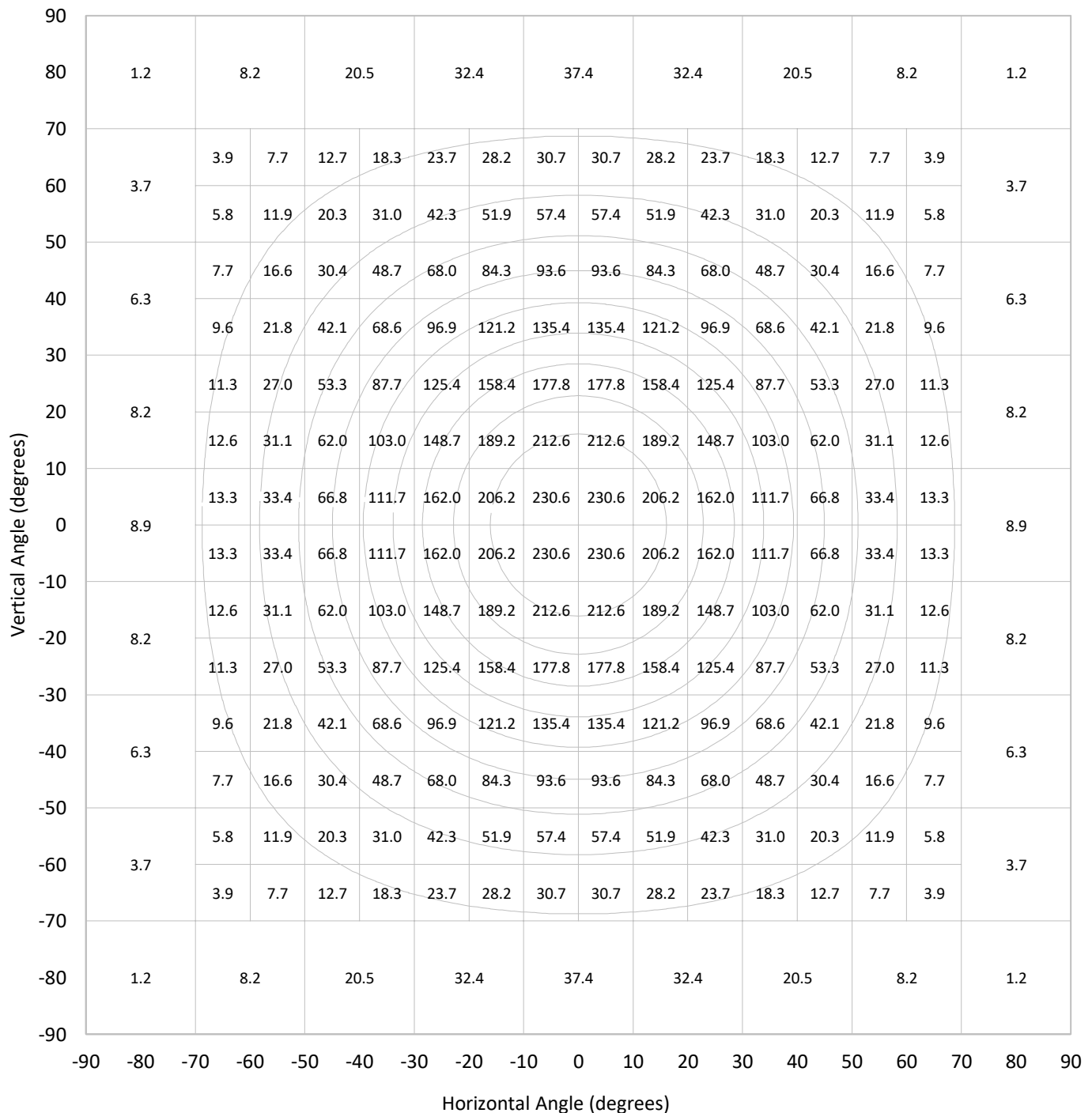
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Iso-Candela Plot



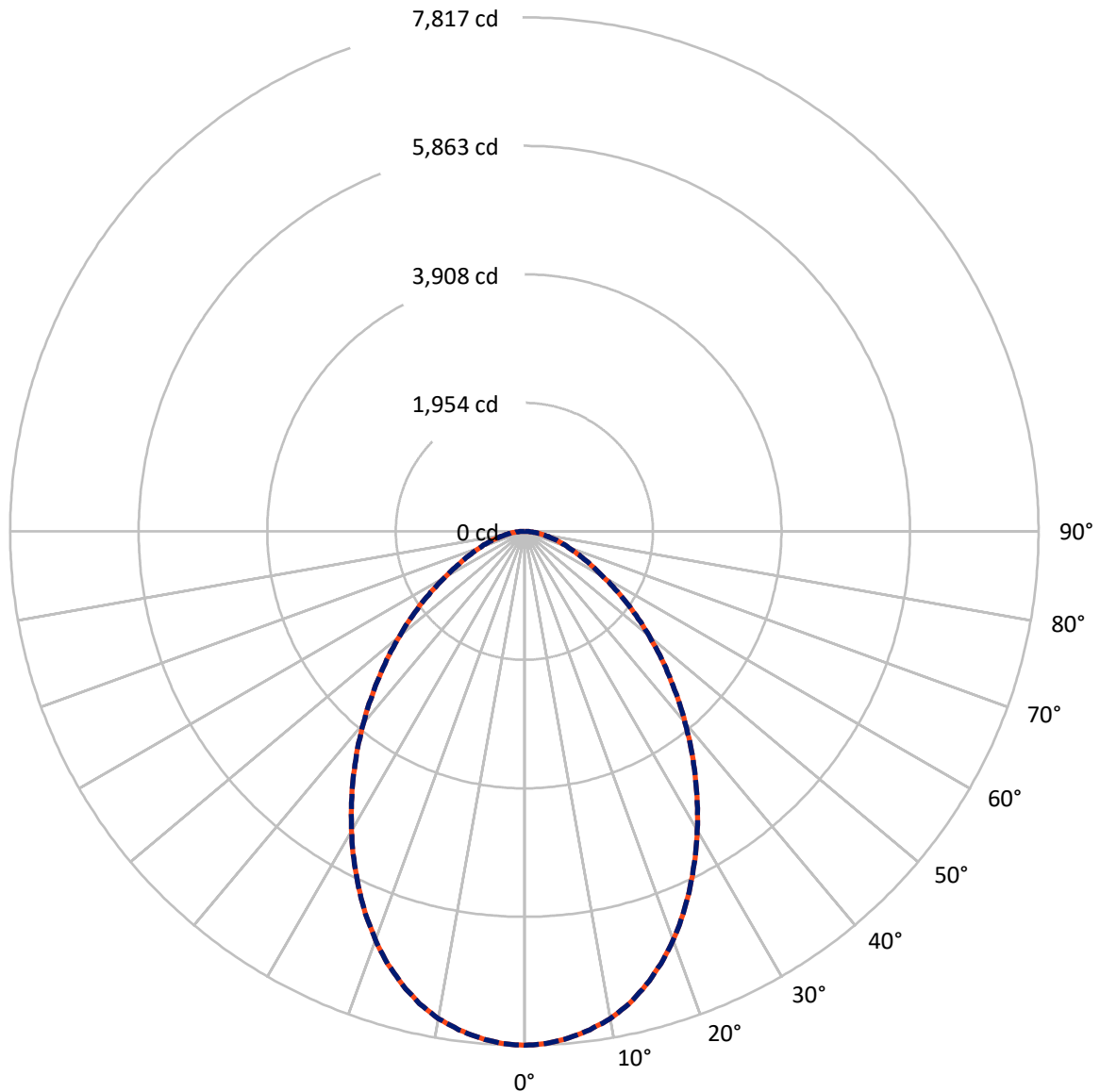
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Lumen Table



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Luminous Intensity Polar Plot

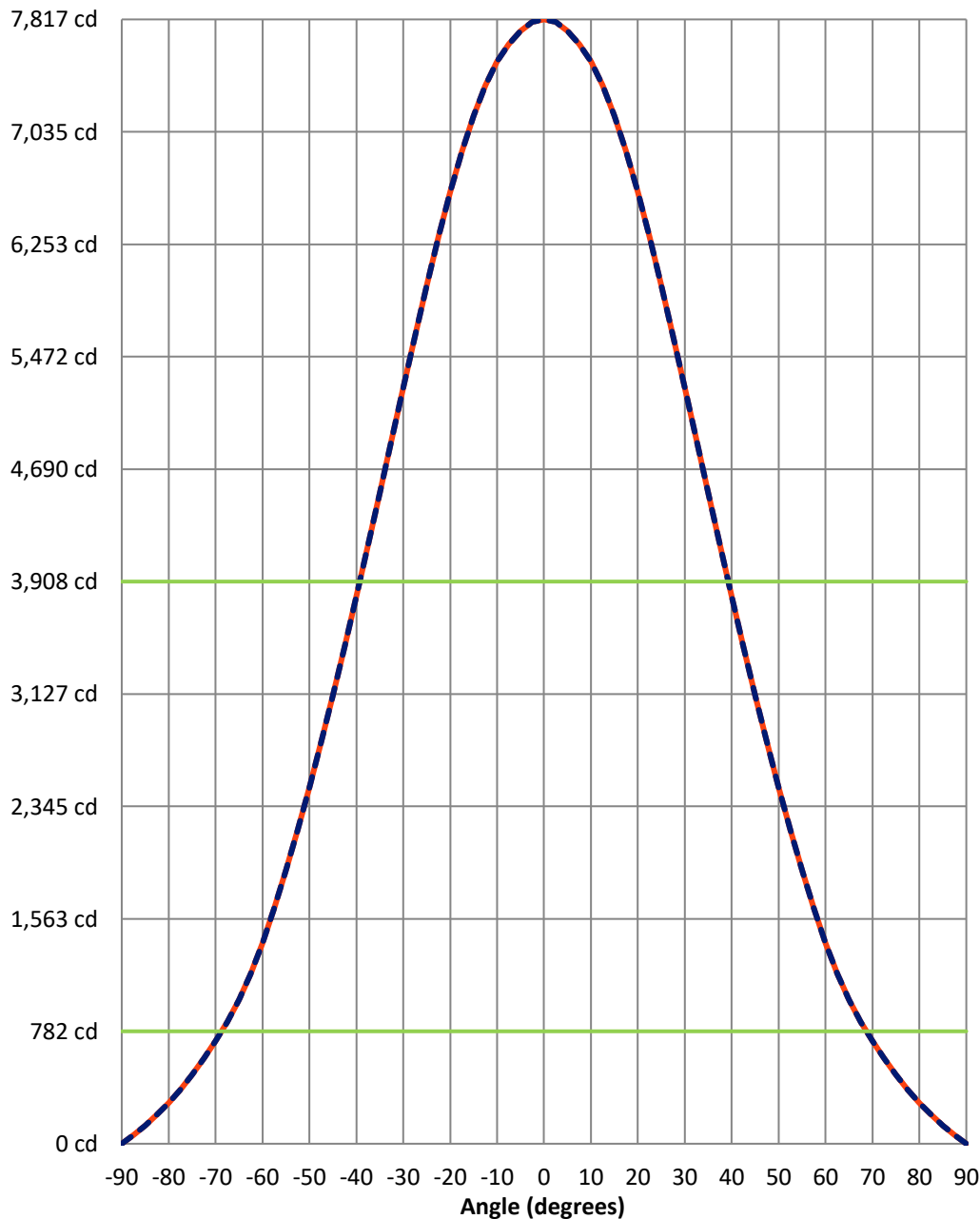


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 6089.8

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 9971.8

Efficiency: 70.9%

Spill:

Lumens: 4102.4

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°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	57.2	57.2	55.8	54.3
85°	126.2	126.2	126.2	126.2	126.2	123.3	121.8	120.3	118.9	115.9	114.5
82.5°	202.5	202.5	202.5	202.5	199.6	196.6	195.2	192.2	189.3	184.9	180.5
80°	283.2	283.2	283.2	283.2	278.8	275.9	271.5	268.5	264.1	258.3	252.4
77.5°	375.6	375.6	375.6	371.2	368.3	363.9	359.5	353.6	347.8	340.4	331.6
75°	479.8	479.8	479.8	474.0	469.6	465.2	457.8	450.5	441.7	431.4	419.7
72.5°	592.8	592.8	592.8	585.5	581.1	573.7	564.9	554.7	544.4	531.2	516.5
70°	714.6	714.6	714.6	705.8	698.5	691.1	679.4	667.7	653.0	638.3	620.7
67.5°	846.7	846.7	846.7	836.4	827.6	817.3	804.1	789.4	771.8	751.3	730.8
65°	1000.8	1000.8	994.9	986.1	975.8	961.1	945.0	924.4	902.4	876.0	848.1
62.5°	1182.7	1182.7	1173.9	1163.6	1150.4	1131.3	1109.3	1082.9	1052.1	1018.4	984.6
60°	1394.0	1394.0	1383.7	1370.5	1351.5	1328.0	1298.6	1264.9	1226.7	1184.2	1143.1
57.5°	1637.6	1637.6	1624.4	1606.8	1583.3	1554.0	1517.3	1474.7	1426.3	1373.5	1322.1
55°	1901.7	1901.7	1885.6	1865.0	1837.2	1801.9	1757.9	1708.0	1649.3	1589.2	1523.1
52.5°	2182.0	2182.0	2162.9	2139.4	2107.2	2066.1	2016.2	1957.5	1890.0	1819.5	1741.8
50°	2476.9	2476.9	2454.9	2428.5	2391.8	2343.4	2286.2	2218.7	2143.8	2061.7	1972.2
47.5°	2792.4	2792.4	2767.5	2736.7	2692.6	2636.9	2569.4	2491.6	2406.5	2314.1	2212.8
45°	3116.7	3116.7	3088.8	3053.6	3005.2	2942.1	2867.3	2792.4	2683.8	2576.7	2459.3
42.5°	3454.2	3454.2	3421.9	3382.3	3326.5	3257.6	3172.5	3075.6	2968.5	2848.2	2720.5
40°	3804.9	3804.9	3768.2	3722.7	3661.1	3581.9	3486.5	3377.9	3257.6	3124.0	2983.2
37.5°	4163.0	4163.0	4121.9	4072.0	4003.0	3915.0	3807.8	3687.5	3552.5	3404.3	3248.8
35°	4523.9	4523.9	4478.4	4424.1	4347.8	4251.0	4135.1	4001.5	3851.9	3690.5	3515.8
32.5°	4892.2	4892.2	4842.3	4780.7	4694.1	4587.0	4459.4	4314.1	4163.0	3975.1	3784.4
30°	5256.1	5256.1	5201.9	5134.4	5041.9	4924.5	4785.1	4625.2	4447.6	4255.4	4050.0
27.5°	5614.2	5599.5	5554.0	5482.1	5380.9	5256.1	5105.0	4931.9	4739.6	4528.3	4308.2
25°	5966.4	5950.2	5900.3	5821.1	5712.5	5576.0	5413.2	5228.3	5021.4	4798.3	4557.7
22.5°	6303.9	6286.2	6233.4	6148.3	6032.4	5884.2	5709.6	5511.5	5291.4	5052.2	4798.3
20°	6616.4	6597.3	6543.0	6453.5	6333.2	6176.2	5991.3	5778.5	5543.8	5291.4	5021.4
17.5°	6898.1	6879.1	6821.8	6729.4	6616.4	6441.8	6251.0	6026.5	5778.5	5511.5	5228.3
15°	7146.1	7125.6	7066.9	6974.5	6845.3	6681.0	6479.9	6251.0	5991.3	5709.6	5413.2
12.5°	7357.4	7336.9	7276.7	7184.3	7050.8	6886.4	6681.0	6441.8	6176.2	5884.2	5576.0
10°	7524.7	7504.2	7446.9	7358.9	7221.0	7050.8	6845.3	6616.4	6333.2	6032.4	5712.5
7.5°	7645.0	7626.0	7573.1	7485.1	7358.9	7184.3	6974.5	6729.4	6453.5	6148.3	5821.1
5°	7736.0	7714.0	7661.2	7573.1	7446.9	7276.7	7066.9	6821.8	6543.0	6233.4	5900.3
2.5°	7799.1	7772.7	7714.0	7626.0	7504.2	7336.9	7125.6	6879.1	6597.3	6286.2	5950.2
0°	7816.7	7799.1	7736.0	7645.0	7524.7	7357.4	7146.1	6898.1	6616.4	6303.9	5966.4

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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°	52.8	52.8	51.4	49.9	48.4	45.5	44.0	42.6	41.1	38.2	36.7
85°	111.5	108.6	105.7	102.7	98.3	95.4	91.0	88.0	83.6	79.2	74.8
82.5°	176.1	171.7	165.8	161.4	155.5	148.2	142.3	135.0	127.7	121.8	114.5
80°	246.5	239.2	231.8	224.5	215.7	206.9	198.1	189.3	179.0	168.7	158.5
77.5°	322.8	312.6	302.3	290.5	280.3	268.5	256.8	245.1	231.8	218.6	205.4
75°	407.9	394.7	380.1	365.4	352.2	336.0	319.9	303.7	286.1	270.0	252.4
72.5°	500.4	484.2	466.6	449.0	429.9	409.4	388.9	366.8	346.3	325.8	303.7
70°	600.2	581.1	559.1	537.1	513.6	488.6	463.7	437.3	410.9	384.5	358.0
67.5°	707.3	683.8	657.4	631.0	601.6	572.3	542.9	512.1	479.8	447.6	416.7
65°	821.7	792.4	761.6	727.8	694.1	660.3	625.1	588.4	551.7	513.6	479.8
62.5°	949.4	912.7	873.1	832.0	793.9	752.8	714.6	669.1	625.1	582.5	540.0
60°	1097.6	1049.2	1000.8	949.4	901.0	848.1	801.2	751.3	701.4	653.0	603.1
57.5°	1263.4	1201.8	1143.1	1081.5	1016.9	958.2	898.0	837.9	782.1	724.9	670.6
55°	1451.2	1376.4	1303.0	1226.7	1151.9	1078.5	1002.2	934.7	865.8	801.2	738.1
52.5°	1656.7	1571.6	1480.6	1394.0	1298.6	1207.7	1122.5	1037.4	956.7	879.0	807.1
50°	1876.8	1777.0	1672.8	1567.2	1458.6	1351.5	1248.7	1149.0	1055.0	964.1	879.0
47.5°	2105.7	1992.7	1873.8	1753.5	1637.6	1507.0	1383.7	1270.7	1157.8	1055.0	956.7
45°	2340.5	2212.8	2082.2	1945.7	1809.3	1668.4	1531.9	1394.0	1270.7	1149.0	1037.4
42.5°	2582.6	2438.8	2293.5	2142.4	1991.2	1837.2	1683.1	1531.9	1383.7	1248.7	1122.5
40°	2832.0	2673.6	2507.7	2343.4	2182.0	2005.9	1837.2	1668.4	1507.0	1351.5	1207.7
37.5°	3081.5	2908.3	2729.3	2544.4	2359.5	2182.0	1991.2	1809.3	1637.6	1458.6	1298.6
35°	3332.4	3141.7	2948.0	2746.9	2544.4	2343.4	2142.4	1945.7	1753.5	1567.2	1394.0
32.5°	3584.8	3376.4	3162.2	2948.0	2729.3	2507.7	2293.5	2082.2	1873.8	1672.8	1480.6
30°	3832.8	3606.8	3376.4	3141.7	2908.3	2673.6	2438.8	2212.8	1992.7	1777.0	1571.6
27.5°	4074.9	3832.8	3584.8	3332.4	3081.5	2832.0	2582.6	2340.5	2105.7	1876.8	1656.7
25°	4308.2	4050.0	3784.4	3515.8	3248.8	2983.2	2720.5	2459.3	2212.8	1972.2	1741.8
22.5°	4528.3	4255.4	3975.1	3690.5	3404.3	3124.0	2848.2	2576.7	2314.1	2061.7	1819.5
20°	4739.6	4447.6	4163.0	3851.9	3552.5	3257.6	2968.5	2683.8	2406.5	2143.8	1890.0
17.5°	4931.9	4625.2	4314.1	4001.5	3687.5	3377.9	3075.6	2792.4	2491.6	2218.7	1957.5
15°	5105.0	4785.1	4459.4	4135.1	3807.8	3486.5	3172.5	2867.3	2569.4	2286.2	2016.2
12.5°	5256.1	4924.5	4587.0	4251.0	3915.0	3581.9	3257.6	2942.1	2636.9	2343.4	2066.1
10°	5380.9	5041.9	4694.1	4347.8	4003.0	3661.1	3326.5	3005.2	2692.6	2391.8	2107.2
7.5°	5482.1	5134.4	4780.7	4424.1	4072.0	3722.7	3382.3	3053.6	2736.7	2428.5	2139.4
5°	5554.0	5201.9	4842.3	4478.4	4121.9	3768.2	3421.9	3088.8	2767.5	2454.9	2162.9
2.5°	5599.5	5256.1	4892.2	4523.9	4163.0	3804.9	3454.2	3116.7	2792.4	2476.9	2182.0
0°	5614.2	5256.1	4892.2	4523.9	4163.0	3804.9	3454.2	3116.7	2792.4	2476.9	2182.0

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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°	35.2	32.3	29.3	27.9	24.9	23.5	20.5	17.6	16.1	13.2	10.3
85°	70.4	64.6	60.2	55.8	51.4	45.5	41.1	36.7	30.8	26.4	20.5
82.5°	107.1	99.8	92.4	85.1	77.8	70.4	61.6	54.3	47.0	39.6	30.8
80°	148.2	136.5	126.2	115.9	105.7	95.4	83.6	73.4	61.6	51.4	41.1
77.5°	190.8	177.6	162.9	148.2	133.5	120.3	105.7	92.4	79.2	64.6	51.4
75°	236.2	218.6	202.5	183.4	165.8	146.7	129.1	111.5	95.4	79.2	61.6
72.5°	283.2	261.2	239.2	218.6	196.6	174.6	154.1	132.1	111.5	92.4	73.4
70°	331.6	305.2	278.8	253.9	228.9	202.5	179.0	154.1	129.1	105.7	83.6
67.5°	383.0	352.2	321.4	289.1	261.2	231.8	202.5	174.6	146.7	120.3	95.4
65°	438.7	402.1	363.9	330.2	293.5	261.2	228.9	196.6	165.8	133.5	105.7
62.5°	496.0	453.4	410.9	368.3	330.2	289.1	253.9	218.6	183.4	148.2	115.9
60°	554.7	506.2	457.8	410.9	363.9	321.4	278.8	239.2	202.5	162.9	126.2
57.5°	614.8	560.5	506.2	453.4	402.1	352.2	305.2	261.2	218.6	177.6	136.5
55°	676.5	614.8	554.7	496.0	438.7	383.0	331.6	283.2	236.2	190.8	148.2
52.5°	738.1	670.6	603.1	540.0	479.8	416.7	358.0	303.7	252.4	205.4	158.5
50°	801.2	724.9	653.0	582.5	513.6	447.6	384.5	325.8	270.0	218.6	168.7
47.5°	865.8	782.1	701.4	625.1	551.7	479.8	410.9	346.3	286.1	231.8	179.0
45°	934.7	837.9	751.3	669.1	588.4	512.1	437.3	366.8	303.7	245.1	189.3
42.5°	1002.2	898.0	801.2	714.6	625.1	542.9	463.7	388.9	319.9	256.8	198.1
40°	1078.5	958.2	848.1	752.8	660.3	572.3	488.6	409.4	336.0	268.5	206.9
37.5°	1151.9	1016.9	901.0	793.9	694.1	601.6	513.6	429.9	352.2	280.3	215.7
35°	1226.7	1081.5	949.4	832.0	727.8	631.0	537.1	449.0	365.4	290.5	224.5
32.5°	1303.0	1143.1	1000.8	873.1	761.6	657.4	559.1	466.6	380.1	302.3	231.8
30°	1376.4	1201.8	1049.2	912.7	792.4	683.8	581.1	484.2	394.7	312.6	239.2
27.5°	1451.2	1263.4	1097.6	949.4	821.7	707.3	600.2	500.4	407.9	322.8	246.5
25°	1523.1	1322.1	1143.1	984.6	848.1	730.8	620.7	516.5	419.7	331.6	252.4
22.5°	1589.2	1373.5	1184.2	1018.4	876.0	751.3	638.3	531.2	431.4	340.4	258.3
20°	1649.3	1426.3	1226.7	1052.1	902.4	771.8	653.0	544.4	441.7	347.8	264.1
17.5°	1708.0	1474.7	1264.9	1082.9	924.4	789.4	667.7	554.7	450.5	353.6	268.5
15°	1757.9	1517.3	1298.6	1109.3	945.0	804.1	679.4	564.9	457.8	359.5	271.5
12.5°	1801.9	1554.0	1328.0	1131.3	961.1	817.3	691.1	573.7	465.2	363.9	275.9
10°	1837.2	1583.3	1351.5	1150.4	975.8	827.6	698.5	581.1	469.6	368.3	278.8
7.5°	1865.0	1606.8	1370.5	1163.6	986.1	836.4	705.8	585.5	474.0	371.2	283.2
5°	1885.6	1624.4	1383.7	1173.9	994.9	846.7	714.6	592.8	479.8	375.6	283.2
2.5°	1901.7	1637.6	1394.0	1182.7	1000.8	846.7	714.6	592.8	479.8	375.6	283.2
0°	1901.7	1637.6	1394.0	1182.7	1000.8	846.7	714.6	592.8	479.8	375.6	283.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.3	5.9	2.9	0.0
85°	16.1	10.3	5.9	0.0
82.5°	23.5	16.1	7.3	0.0
80°	30.8	20.5	10.3	0.0
77.5°	39.6	26.4	13.2	0.0
75°	47.0	30.8	16.1	0.0
72.5°	54.3	36.7	17.6	0.0
70°	61.6	41.1	20.5	0.0
67.5°	70.4	45.5	23.5	0.0
65°	77.8	51.4	24.9	0.0
62.5°	85.1	55.8	27.9	0.0
60°	92.4	60.2	29.3	0.0
57.5°	99.8	64.6	32.3	0.0
55°	107.1	70.4	35.2	0.0
52.5°	114.5	74.8	36.7	0.0
50°	121.8	79.2	38.2	0.0
47.5°	127.7	83.6	41.1	0.0
45°	135.0	88.0	42.6	0.0
42.5°	142.3	91.0	44.0	0.0
40°	148.2	95.4	45.5	0.0
37.5°	155.5	98.3	48.4	0.0
35°	161.4	102.7	49.9	0.0
32.5°	165.8	105.7	51.4	0.0
30°	171.7	108.6	52.8	0.0
27.5°	176.1	111.5	52.8	0.0
25°	180.5	114.5	54.3	0.0
22.5°	184.9	115.9	55.8	0.0
20°	189.3	118.9	57.2	0.0
17.5°	192.2	120.3	57.2	0.0
15°	195.2	121.8	60.2	0.0
12.5°	196.6	123.3	60.2	0.0
10°	199.6	126.2	60.2	0.0
7.5°	202.5	126.2	60.2	0.0
5°	202.5	126.2	60.2	0.0
2.5°	202.5	126.2	60.2	0.0
0°	202.5	126.2	60.2	0.0

(END OF REPORT)