

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: P623903

Luminaire Tested: **IFLD-S-SA3A-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623903
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

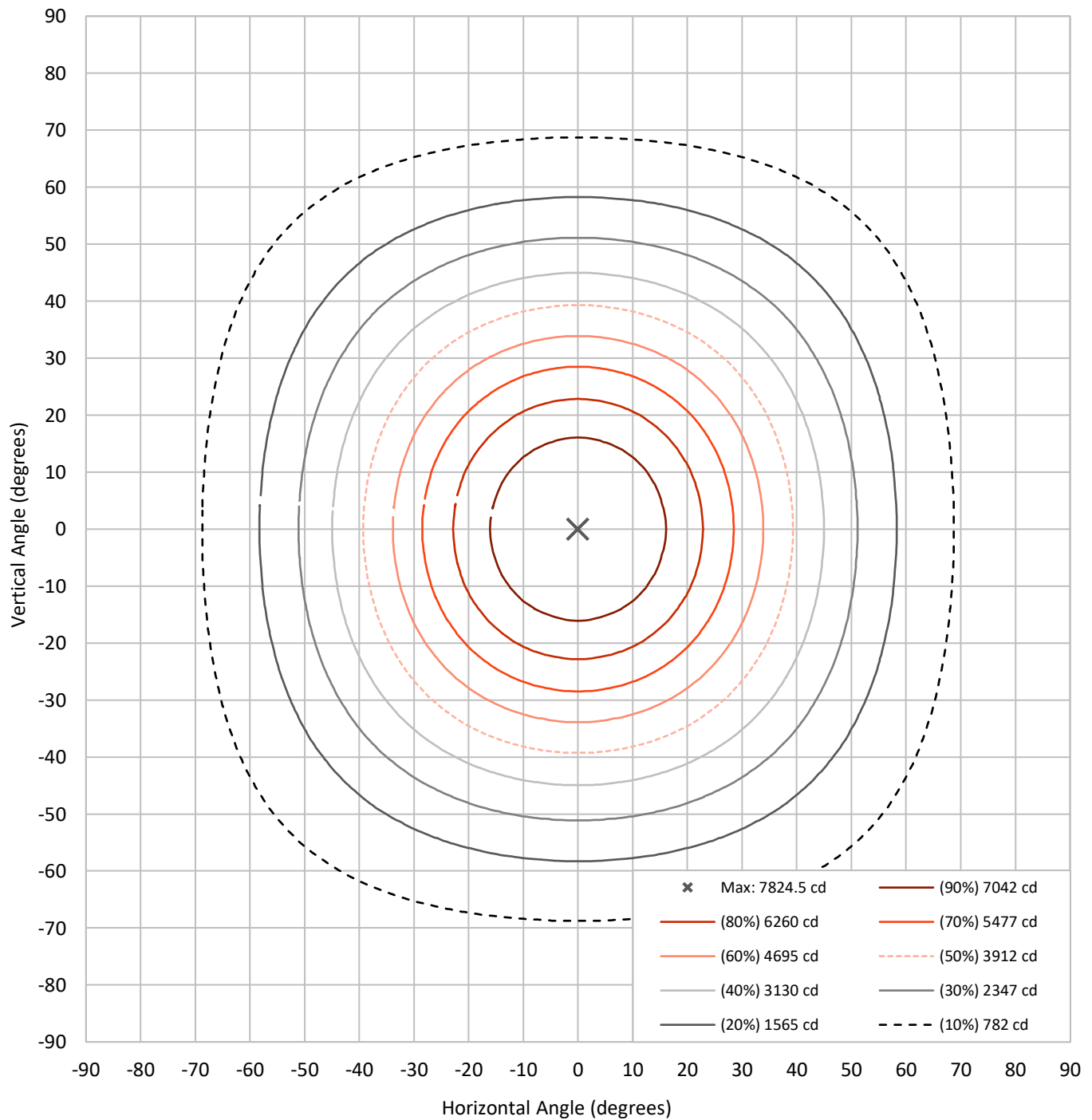
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14088.3 lumens	Max Intensity:	7824.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	148.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6095.9 lumens	Field Lumens:	9981.8 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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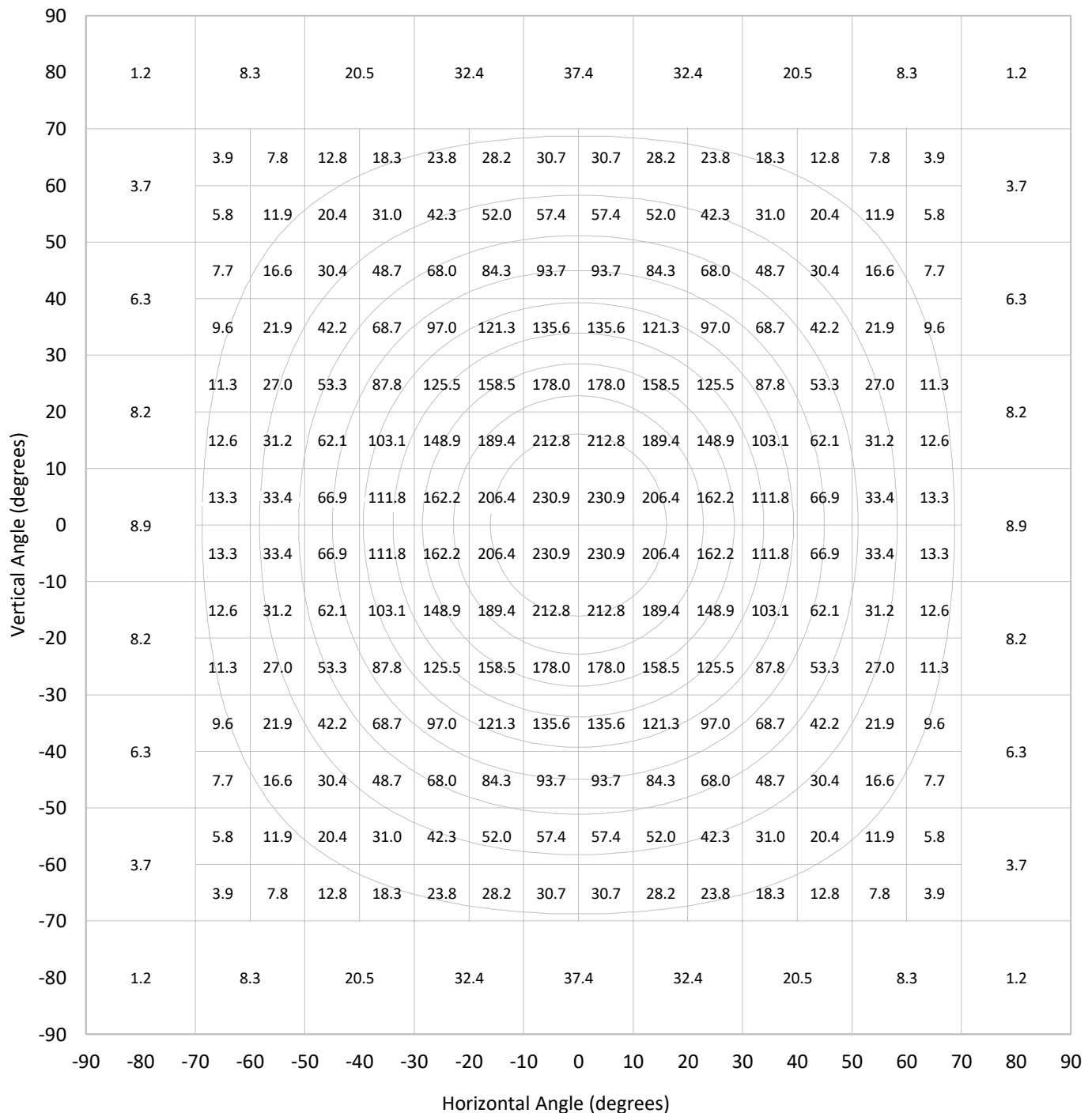
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Iso-Candela Plot



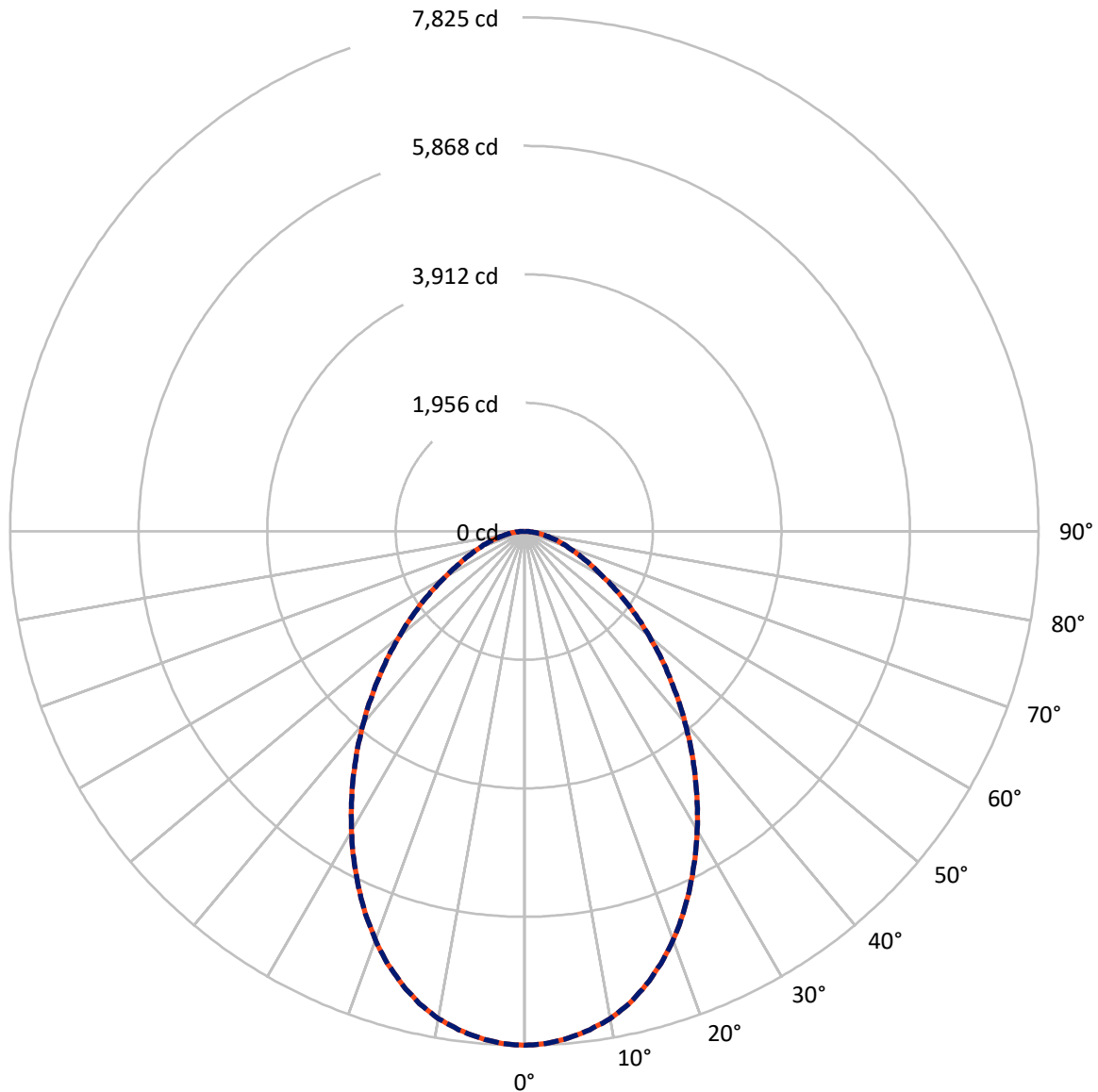
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Lumen Table



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Luminous Intensity Polar Plot

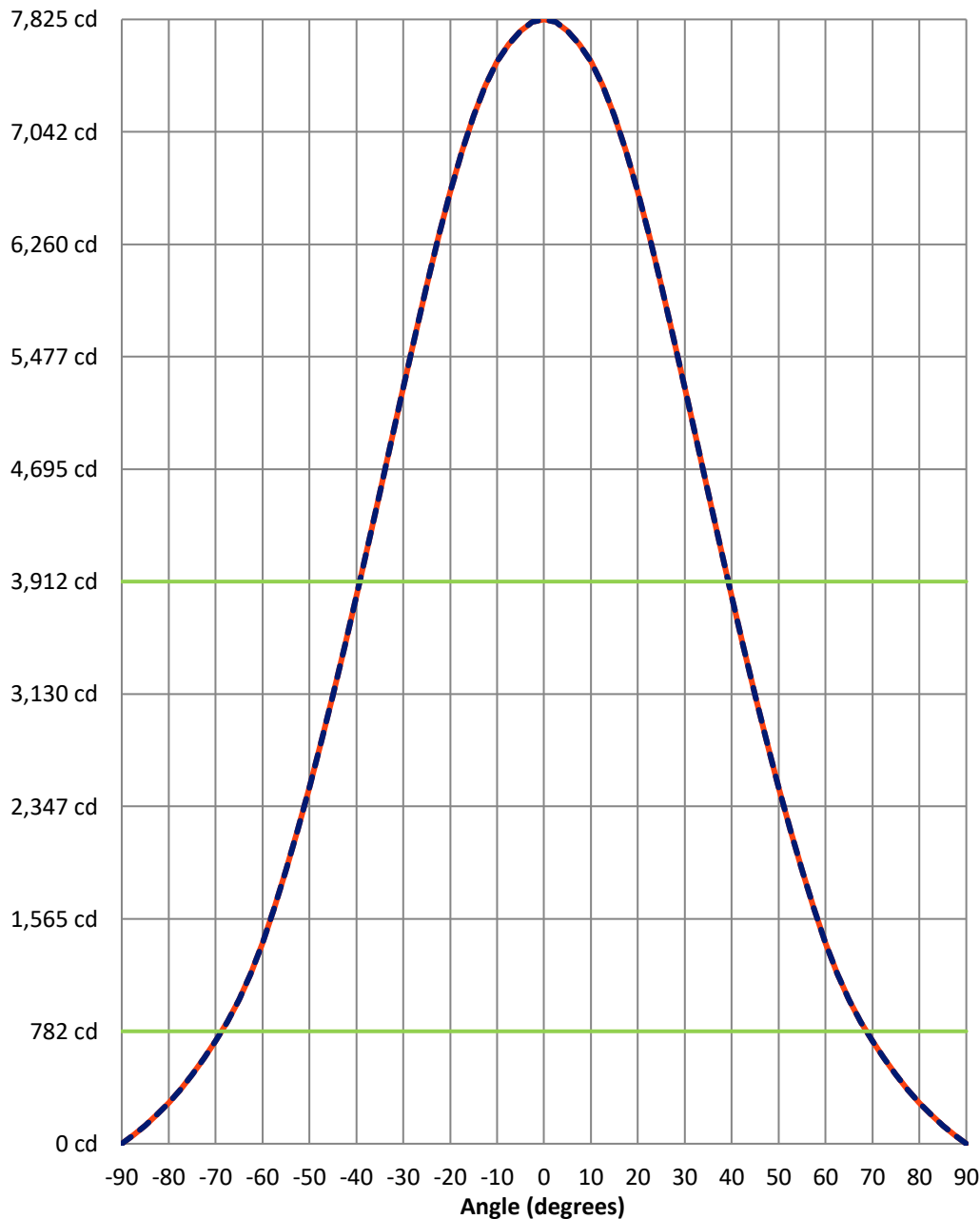


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6095.9
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 9981.8
Efficiency: 70.9%

Spill:

Lumens: 4106.5
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	57.3	57.3	55.8	54.3
85°	126.3	126.3	126.3	126.3	126.3	123.4	121.9	120.4	119.0	116.0	114.6
82.5°	202.7	202.7	202.7	202.7	199.8	196.8	195.4	192.4	189.5	185.1	180.7
80°	283.5	283.5	283.5	283.5	279.1	276.1	271.7	268.8	264.4	258.5	252.6
77.5°	376.0	376.0	376.0	371.6	368.7	364.3	359.9	354.0	348.1	340.8	332.0
75°	480.3	480.3	480.3	474.4	470.0	465.6	458.3	450.9	442.1	431.8	420.1
72.5°	593.4	593.4	593.4	586.1	581.7	574.3	565.5	555.2	544.9	531.7	517.0
70°	715.3	715.3	715.3	706.5	699.2	691.8	680.1	668.3	653.6	638.9	621.3
67.5°	847.5	847.5	847.5	837.2	828.4	818.1	804.9	790.2	772.6	752.0	731.5
65°	1001.8	1001.8	995.9	987.1	976.8	962.1	945.9	925.4	903.3	876.9	849.0
62.5°	1183.9	1183.9	1175.1	1164.8	1151.6	1132.5	1110.4	1084.0	1053.2	1019.4	985.6
60°	1395.4	1395.4	1385.1	1371.9	1352.8	1329.3	1299.9	1266.1	1228.0	1185.4	1144.2
57.5°	1639.2	1639.2	1626.0	1608.4	1584.9	1555.5	1518.8	1476.2	1427.7	1374.8	1323.4
55°	1903.6	1903.6	1887.5	1866.9	1839.0	1803.7	1759.7	1709.7	1651.0	1590.8	1524.7
52.5°	2184.2	2184.2	2165.1	2141.6	2109.3	2068.1	2018.2	1959.4	1891.9	1821.4	1743.5
50°	2479.4	2479.4	2457.4	2430.9	2394.2	2345.7	2288.5	2220.9	2146.0	2063.7	1974.1
47.5°	2795.2	2795.2	2770.2	2739.4	2695.3	2639.5	2572.0	2494.1	2408.9	2316.4	2215.0
45°	3119.8	3119.8	3091.9	3056.7	3008.2	2945.0	2870.1	2795.2	2686.5	2579.3	2461.8
42.5°	3457.7	3457.7	3425.4	3385.7	3329.9	3260.8	3175.6	3078.7	2971.5	2851.0	2723.2
40°	3808.7	3808.7	3772.0	3726.5	3664.8	3585.5	3490.0	3381.3	3260.8	3127.2	2986.2
37.5°	4167.1	4167.1	4126.0	4076.1	4007.0	3918.9	3811.7	3691.2	3556.1	3407.7	3252.0
35°	4528.5	4528.5	4482.9	4428.6	4352.2	4255.2	4139.2	4005.5	3855.7	3694.2	3519.4
32.5°	4897.1	4897.1	4847.2	4785.5	4698.8	4591.6	4463.8	4318.4	4167.1	3979.1	3788.2
30°	5261.4	5261.4	5207.1	5139.5	5047.0	4929.5	4789.9	4629.8	4452.1	4259.7	4054.0
27.5°	5619.8	5605.1	5559.6	5487.6	5386.3	5261.4	5110.1	4936.8	4744.4	4532.9	4312.5
25°	5972.3	5956.2	5906.2	5826.9	5718.2	5581.6	5418.6	5233.5	5026.4	4803.1	4562.2
22.5°	6310.2	6292.5	6239.7	6154.5	6038.4	5890.1	5715.3	5517.0	5296.7	5057.2	4803.1
20°	6623.0	6603.9	6549.6	6460.0	6339.5	6182.4	5997.3	5784.3	5549.3	5296.7	5026.4
17.5°	6905.0	6886.0	6828.7	6736.1	6623.0	6448.2	6257.3	6032.6	5784.3	5517.0	5233.5
15°	7153.3	7132.7	7074.0	6981.4	6852.2	6687.7	6486.4	6257.3	5997.3	5715.3	5418.6
12.5°	7364.8	7344.2	7284.0	7191.5	7057.8	6893.3	6687.7	6448.2	6182.4	5890.1	5581.6
10°	7532.2	7511.7	7454.4	7366.3	7228.2	7057.8	6852.2	6623.0	6339.5	6038.4	5718.2
7.5°	7652.7	7633.6	7580.7	7492.6	7366.3	7191.5	6981.4	6736.1	6460.0	6154.5	5826.9
5°	7743.8	7721.7	7668.9	7580.7	7454.4	7284.0	7074.0	6828.7	6549.6	6239.7	5906.2
2.5°	7806.9	7780.5	7721.7	7633.6	7511.7	7344.2	7132.7	6886.0	6603.9	6292.5	5956.2
0°	7824.5	7806.9	7743.8	7652.7	7532.2	7364.8	7153.3	6905.0	6623.0	6310.2	5972.3

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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°	52.9	52.9	51.4	49.9	48.5	45.5	44.1	42.6	41.1	38.2	36.7
85°	111.6	108.7	105.8	102.8	98.4	95.5	91.1	88.1	83.7	79.3	74.9
82.5°	176.3	171.9	166.0	161.6	155.7	148.4	142.5	135.1	127.8	121.9	114.6
80°	246.8	239.4	232.1	224.7	215.9	207.1	198.3	189.5	179.2	168.9	158.6
77.5°	323.1	312.9	302.6	290.8	280.5	268.8	257.0	245.3	232.1	218.9	205.6
75°	408.3	395.1	380.4	365.7	352.5	336.4	320.2	304.1	286.4	270.3	252.6
72.5°	500.9	484.7	467.1	449.5	430.4	409.8	389.2	367.2	346.6	326.1	304.1
70°	600.8	581.7	559.6	537.6	514.1	489.1	464.2	437.7	411.3	384.8	358.4
67.5°	708.0	684.5	658.0	631.6	602.2	572.9	543.5	512.6	480.3	448.0	417.2
65°	822.6	793.2	762.3	728.5	694.8	661.0	625.7	589.0	552.3	514.1	480.3
62.5°	950.3	913.6	874.0	832.8	794.6	753.5	715.3	669.8	625.7	583.1	540.5
60°	1098.7	1050.2	1001.8	950.3	901.9	849.0	802.0	752.0	702.1	653.6	603.7
57.5°	1264.7	1203.0	1144.2	1082.5	1017.9	959.2	898.9	838.7	782.9	725.6	671.3
55°	1452.7	1377.8	1304.3	1228.0	1153.0	1079.6	1003.2	935.7	866.6	802.0	738.8
52.5°	1658.3	1573.1	1482.1	1395.4	1299.9	1208.9	1123.7	1038.5	957.7	879.8	807.9
50°	1878.7	1778.8	1674.5	1568.7	1460.0	1352.8	1250.0	1150.1	1056.1	965.0	879.8
47.5°	2107.8	1994.7	1875.7	1755.3	1639.2	1508.5	1385.1	1272.0	1158.9	1056.1	957.7
45°	2342.8	2215.0	2084.3	1947.7	1811.1	1670.1	1533.5	1395.4	1272.0	1150.1	1038.5
42.5°	2585.2	2441.2	2295.8	2144.5	1993.2	1839.0	1684.8	1533.5	1385.1	1250.0	1123.7
40°	2834.9	2676.2	2510.3	2345.7	2184.2	2007.9	1839.0	1670.1	1508.5	1352.8	1208.9
37.5°	3084.6	2911.3	2732.1	2547.0	2361.9	2184.2	1993.2	1811.1	1639.2	1460.0	1299.9
35°	3335.8	3144.8	2950.9	2749.7	2547.0	2345.7	2144.5	1947.7	1755.3	1568.7	1395.4
32.5°	3588.4	3379.8	3165.4	2950.9	2732.1	2510.3	2295.8	2084.3	1875.7	1674.5	1482.1
30°	3836.6	3610.4	3379.8	3144.8	2911.3	2676.2	2441.2	2215.0	1994.7	1778.8	1573.1
27.5°	4079.0	3836.6	3588.4	3335.8	3084.6	2834.9	2585.2	2342.8	2107.8	1878.7	1658.3
25°	4312.5	4054.0	3788.2	3519.4	3252.0	2986.2	2723.2	2461.8	2215.0	1974.1	1743.5
22.5°	4532.9	4259.7	3979.1	3694.2	3407.7	3127.2	2851.0	2579.3	2316.4	2063.7	1821.4
20°	4744.4	4452.1	4167.1	3855.7	3556.1	3260.8	2971.5	2686.5	2408.9	2146.0	1891.9
17.5°	4936.8	4629.8	4318.4	4005.5	3691.2	3381.3	3078.7	2795.2	2494.1	2220.9	1959.4
15°	5110.1	4789.9	4463.8	4139.2	3811.7	3490.0	3175.6	2870.1	2572.0	2288.5	2018.2
12.5°	5261.4	4929.5	4591.6	4255.2	3918.9	3585.5	3260.8	2945.0	2639.5	2345.7	2068.1
10°	5386.3	5047.0	4698.8	4352.2	4007.0	3664.8	3329.9	3008.2	2695.3	2394.2	2109.3
7.5°	5487.6	5139.5	4785.5	4428.6	4076.1	3726.5	3385.7	3056.7	2739.4	2430.9	2141.6
5°	5559.6	5207.1	4847.2	4482.9	4126.0	3772.0	3425.4	3091.9	2770.2	2457.4	2165.1
2.5°	5605.1	5261.4	4897.1	4528.5	4167.1	3808.7	3457.7	3119.8	2795.2	2479.4	2184.2
0°	5619.8	5261.4	4897.1	4528.5	4167.1	3808.7	3457.7	3119.8	2795.2	2479.4	2184.2

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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°	35.3	32.3	29.4	27.9	25.0	23.5	20.6	17.6	16.2	13.2	10.3
85°	70.5	64.6	60.2	55.8	51.4	45.5	41.1	36.7	30.8	26.4	20.6
82.5°	107.2	99.9	92.5	85.2	77.8	70.5	61.7	54.3	47.0	39.7	30.8
80°	148.4	136.6	126.3	116.0	105.8	95.5	83.7	73.4	61.7	51.4	41.1
77.5°	191.0	177.7	163.0	148.4	133.7	120.4	105.8	92.5	79.3	64.6	51.4
75°	236.5	218.9	202.7	183.6	166.0	146.9	129.3	111.6	95.5	79.3	61.7
72.5°	283.5	261.5	239.4	218.9	196.8	174.8	154.2	132.2	111.6	92.5	73.4
70°	332.0	305.5	279.1	254.1	229.1	202.7	179.2	154.2	129.3	105.8	83.7
67.5°	383.4	352.5	321.7	289.4	261.5	232.1	202.7	174.8	146.9	120.4	95.5
65°	439.2	402.5	364.3	330.5	293.8	261.5	229.1	196.8	166.0	133.7	105.8
62.5°	496.5	453.9	411.3	368.7	330.5	289.4	254.1	218.9	183.6	148.4	116.0
60°	555.2	506.8	458.3	411.3	364.3	321.7	279.1	239.4	202.7	163.0	126.3
57.5°	615.4	561.1	506.8	453.9	402.5	352.5	305.5	261.5	218.9	177.7	136.6
55°	677.1	615.4	555.2	496.5	439.2	383.4	332.0	283.5	236.5	191.0	148.4
52.5°	738.8	671.3	603.7	540.5	480.3	417.2	358.4	304.1	252.6	205.6	158.6
50°	802.0	725.6	653.6	583.1	514.1	448.0	384.8	326.1	270.3	218.9	168.9
47.5°	866.6	782.9	702.1	625.7	552.3	480.3	411.3	346.6	286.4	232.1	179.2
45°	935.7	838.7	752.0	669.8	589.0	512.6	437.7	367.2	304.1	245.3	189.5
42.5°	1003.2	898.9	802.0	715.3	625.7	543.5	464.2	389.2	320.2	257.0	198.3
40°	1079.6	959.2	849.0	753.5	661.0	572.9	489.1	409.8	336.4	268.8	207.1
37.5°	1153.0	1017.9	901.9	794.6	694.8	602.2	514.1	430.4	352.5	280.5	215.9
35°	1228.0	1082.5	950.3	832.8	728.5	631.6	537.6	449.5	365.7	290.8	224.7
32.5°	1304.3	1144.2	1001.8	874.0	762.3	658.0	559.6	467.1	380.4	302.6	232.1
30°	1377.8	1203.0	1050.2	913.6	793.2	684.5	581.7	484.7	395.1	312.9	239.4
27.5°	1452.7	1264.7	1098.7	950.3	822.6	708.0	600.8	500.9	408.3	323.1	246.8
25°	1524.7	1323.4	1144.2	985.6	849.0	731.5	621.3	517.0	420.1	332.0	252.6
22.5°	1590.8	1374.8	1185.4	1019.4	876.9	752.0	638.9	531.7	431.8	340.8	258.5
20°	1651.0	1427.7	1228.0	1053.2	903.3	772.6	653.6	544.9	442.1	348.1	264.4
17.5°	1709.7	1476.2	1266.1	1084.0	925.4	790.2	668.3	555.2	450.9	354.0	268.8
15°	1759.7	1518.8	1299.9	1110.4	945.9	804.9	680.1	565.5	458.3	359.9	271.7
12.5°	1803.7	1555.5	1329.3	1132.5	962.1	818.1	691.8	574.3	465.6	364.3	276.1
10°	1839.0	1584.9	1352.8	1151.6	976.8	828.4	699.2	581.7	470.0	368.7	279.1
7.5°	1866.9	1608.4	1371.9	1164.8	987.1	837.2	706.5	586.1	474.4	371.6	283.5
5°	1887.5	1626.0	1385.1	1175.1	995.9	847.5	715.3	593.4	480.3	376.0	283.5
2.5°	1903.6	1639.2	1395.4	1183.9	1001.8	847.5	715.3	593.4	480.3	376.0	283.5
0°	1903.6	1639.2	1395.4	1183.9	1001.8	847.5	715.3	593.4	480.3	376.0	283.5

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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°	16.2	10.3	5.9	0.0
82.5°	23.5	16.2	7.3	0.0
80°	30.8	20.6	10.3	0.0
77.5°	39.7	26.4	13.2	0.0
75°	47.0	30.8	16.2	0.0
72.5°	54.3	36.7	17.6	0.0
70°	61.7	41.1	20.6	0.0
67.5°	70.5	45.5	23.5	0.0
65°	77.8	51.4	25.0	0.0
62.5°	85.2	55.8	27.9	0.0
60°	92.5	60.2	29.4	0.0
57.5°	99.9	64.6	32.3	0.0
55°	107.2	70.5	35.3	0.0
52.5°	114.6	74.9	36.7	0.0
50°	121.9	79.3	38.2	0.0
47.5°	127.8	83.7	41.1	0.0
45°	135.1	88.1	42.6	0.0
42.5°	142.5	91.1	44.1	0.0
40°	148.4	95.5	45.5	0.0
37.5°	155.7	98.4	48.5	0.0
35°	161.6	102.8	49.9	0.0
32.5°	166.0	105.8	51.4	0.0
30°	171.9	108.7	52.9	0.0
27.5°	176.3	111.6	52.9	0.0
25°	180.7	114.6	54.3	0.0
22.5°	185.1	116.0	55.8	0.0
20°	189.5	119.0	57.3	0.0
17.5°	192.4	120.4	57.3	0.0
15°	195.4	121.9	60.2	0.0
12.5°	196.8	123.4	60.2	0.0
10°	199.8	126.3	60.2	0.0
7.5°	202.7	126.3	60.2	0.0
5°	202.7	126.3	60.2	0.0
2.5°	202.7	126.3	60.2	0.0
0°	202.7	126.3	60.2	0.0

(END OF REPORT)