

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: P623819

Luminaire Tested: **IFLD-S-SA3D-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623819
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

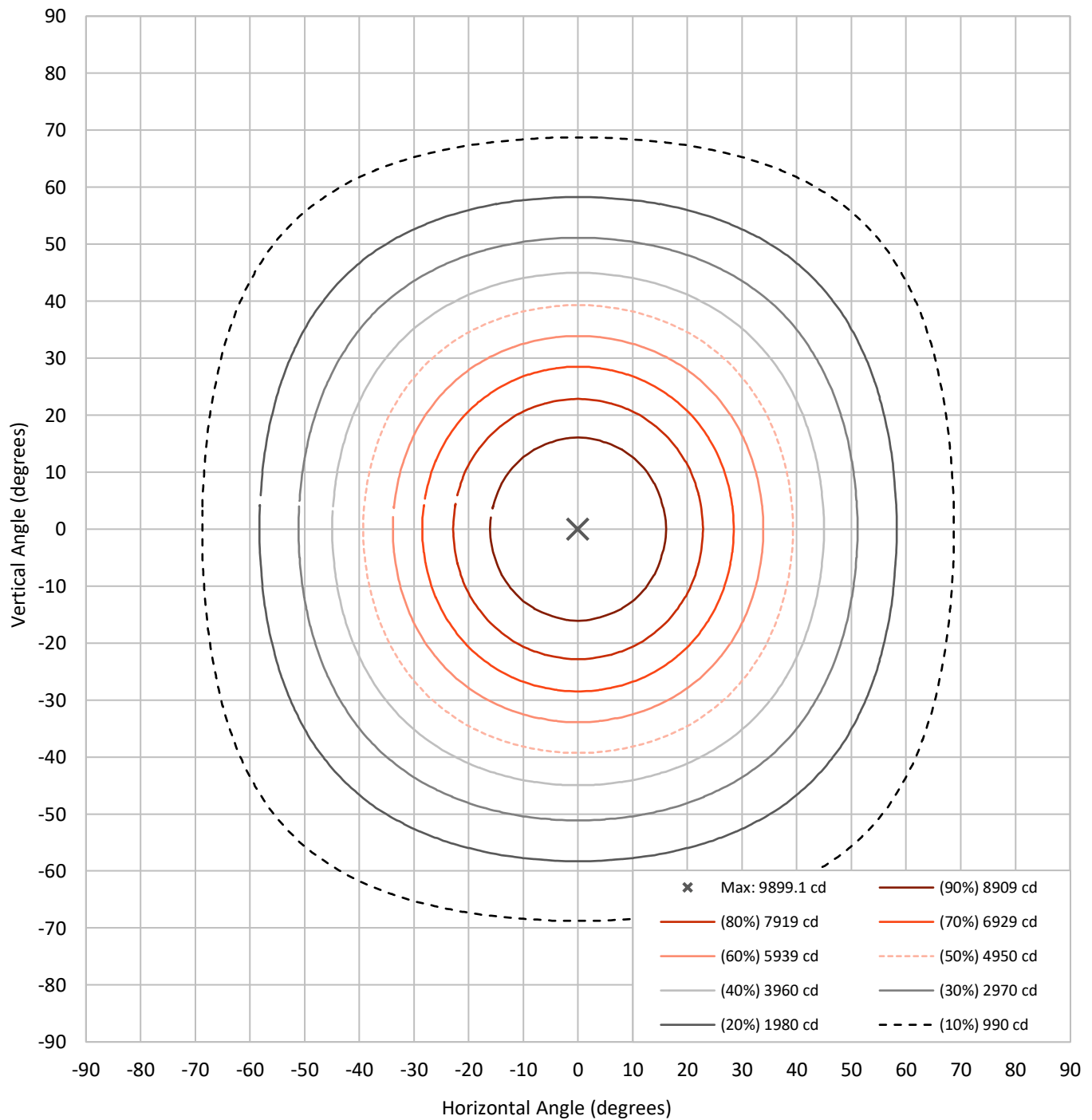
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17823.6 lumens	Max Intensity:	9899.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	96.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7712.1 lumens	Field Lumens:	12628.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	184.1		
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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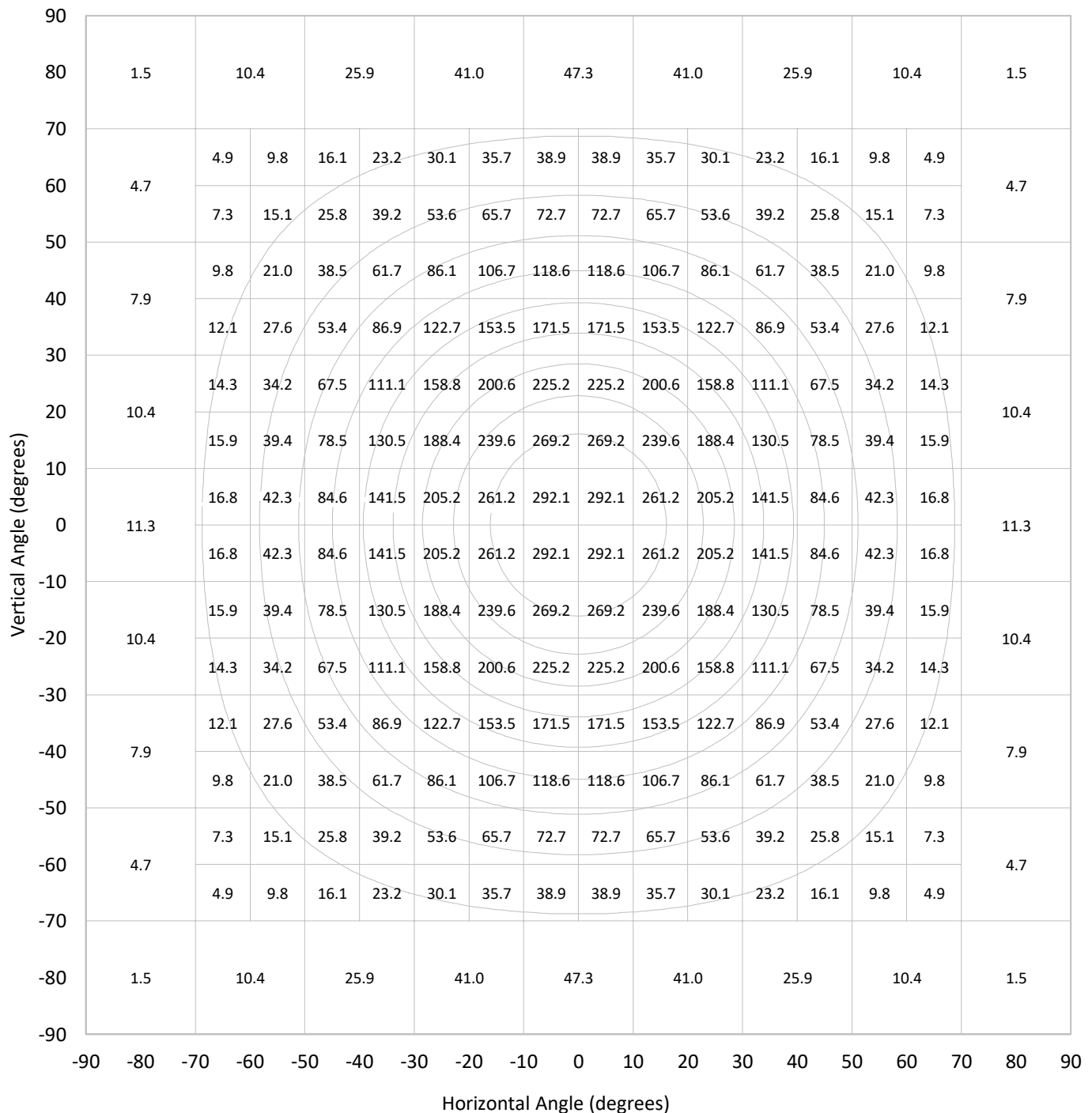
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Iso-Candela Plot



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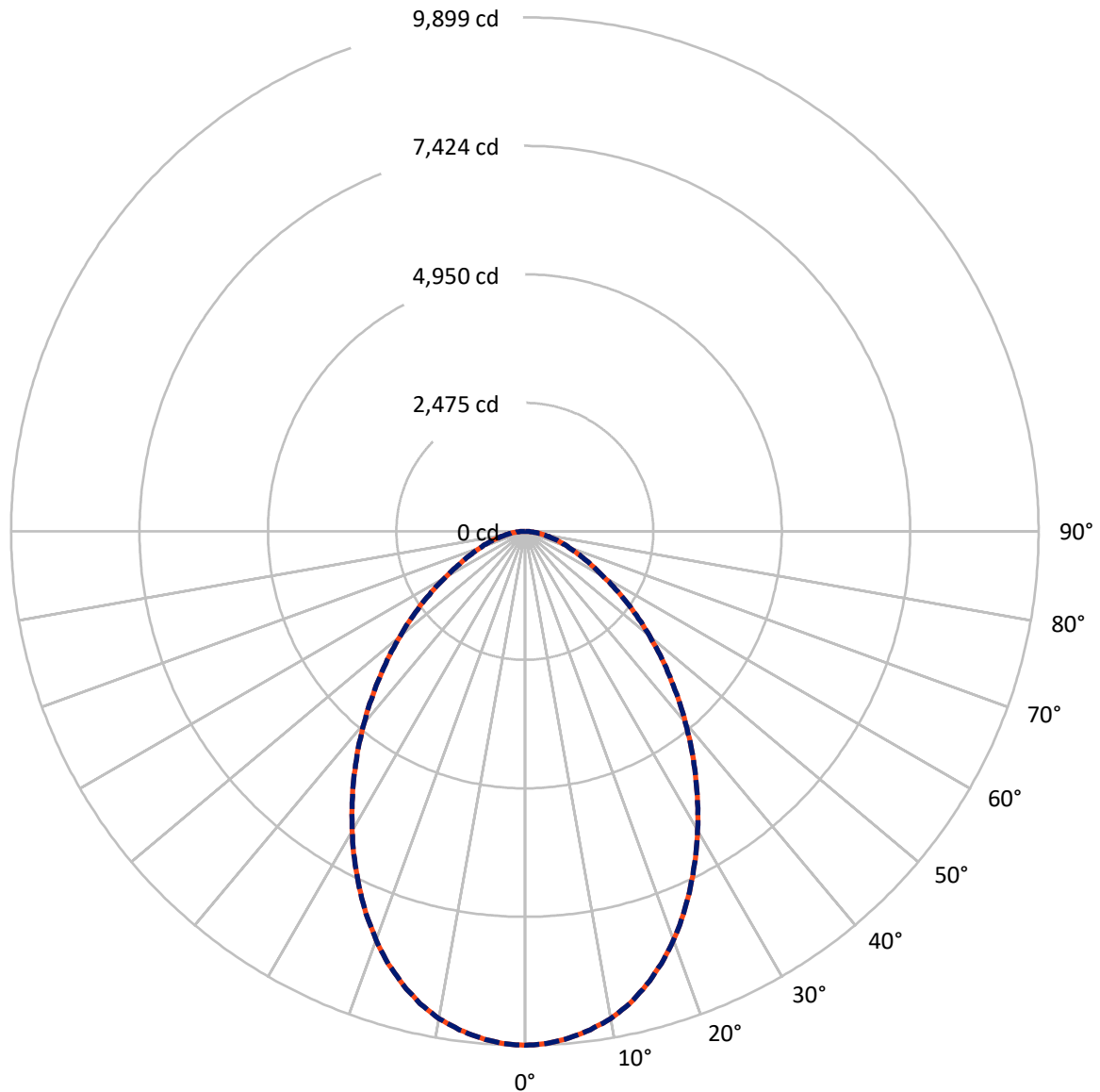
Lumen Table



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Luminous Intensity Polar Plot



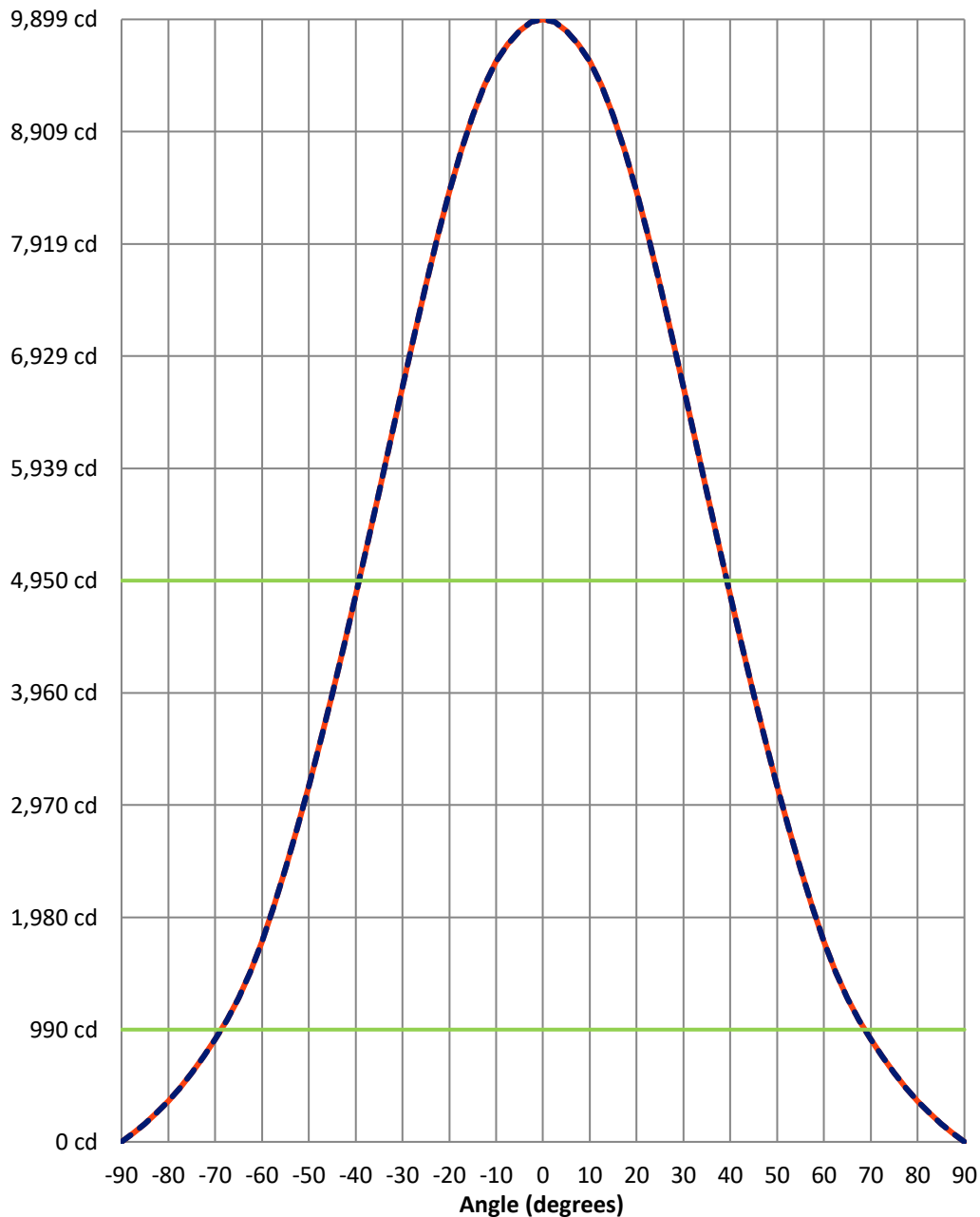
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	7712.1
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	12628.3
Efficiency:	70.9%

Spill:

Lumens:	5195.3
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°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	72.5	72.5	70.6	68.8
85°	159.8	159.8	159.8	159.8	159.8	156.1	154.2	152.4	150.5	146.8	144.9
82.5°	256.4	256.4	256.4	256.4	252.7	249.0	247.2	243.4	239.7	234.1	228.6
80°	358.7	358.7	358.7	358.7	353.1	349.4	343.8	340.1	334.5	327.1	319.6
77.5°	475.7	475.7	475.7	470.1	466.4	460.9	455.3	447.8	440.4	431.1	420.0
75°	607.7	607.7	607.7	600.2	594.7	589.1	579.8	570.5	559.3	546.3	531.5
72.5°	750.7	750.7	750.7	741.5	735.9	726.6	715.4	702.4	689.4	672.7	654.1
70°	905.0	905.0	905.0	893.8	884.5	875.3	860.4	845.5	826.9	808.4	786.1
67.5°	1072.2	1072.2	1072.2	1059.2	1048.1	1035.1	1018.3	999.8	977.5	951.4	925.4
65°	1267.4	1267.4	1259.9	1248.8	1235.8	1217.2	1196.7	1170.7	1142.8	1109.4	1074.1
62.5°	1497.8	1497.8	1486.6	1473.6	1456.9	1432.7	1404.9	1371.4	1332.4	1289.7	1246.9
60°	1765.4	1765.4	1752.4	1735.6	1711.5	1681.8	1644.6	1601.8	1553.5	1499.6	1447.6
57.5°	2073.9	2073.9	2057.1	2034.8	2005.1	1967.9	1921.5	1867.6	1806.3	1739.4	1674.3
55°	2408.3	2408.3	2387.9	2361.9	2326.6	2282.0	2226.2	2163.1	2088.7	2012.5	1928.9
52.5°	2763.3	2763.3	2739.1	2709.4	2668.5	2616.5	2553.3	2479.0	2393.5	2304.3	2205.8
50°	3136.8	3136.8	3108.9	3075.5	3029.0	2967.7	2895.2	2809.7	2715.0	2610.9	2497.5
47.5°	3536.3	3536.3	3504.7	3465.7	3410.0	3339.4	3253.9	3155.4	3047.6	2930.5	2802.3
45°	3947.0	3947.0	3911.7	3867.1	3805.8	3725.9	3631.1	3536.3	3398.8	3263.2	3114.5
42.5°	4374.4	4374.4	4333.5	4283.4	4212.7	4125.4	4017.6	3895.0	3759.3	3606.9	3445.3
40°	4818.6	4818.6	4772.1	4714.5	4636.4	4536.1	4415.3	4277.8	4125.4	3956.3	3777.9
37.5°	5272.0	5272.0	5219.9	5156.8	5069.4	4957.9	4822.3	4669.9	4498.9	4311.2	4114.3
35°	5729.1	5729.1	5671.5	5602.8	5506.1	5383.5	5236.7	5067.6	4878.0	4673.6	4452.5
32.5°	6195.5	6195.5	6132.4	6054.3	5944.7	5809.0	5647.3	5463.4	5272.0	5034.1	4792.5
30°	6656.4	6656.4	6587.6	6502.2	6385.1	6236.4	6059.9	5857.3	5632.5	5389.0	5128.9
27.5°	7109.8	7091.2	7033.6	6942.6	6814.4	6656.4	6465.0	6245.7	6002.3	5734.7	5455.9
25°	7555.8	7535.4	7472.2	7371.8	7234.3	7061.5	6855.2	6621.1	6359.1	6076.6	5771.9
22.5°	7983.2	7960.9	7894.0	7786.2	7639.4	7451.8	7230.6	6979.7	6701.0	6398.1	6076.6
20°	8379.0	8354.9	8286.1	8172.8	8020.4	7821.6	7587.4	7318.0	7020.6	6701.0	6359.1
17.5°	8735.8	8711.7	8639.2	8522.1	8379.0	8157.9	7916.3	7632.0	7318.0	6979.7	6621.1
15°	9049.9	9023.9	8949.5	8832.5	8668.9	8460.8	8206.2	7916.3	7587.4	7230.6	6855.2
12.5°	9317.5	9291.5	9215.3	9098.2	8929.1	8721.0	8460.8	8157.9	7821.6	7451.8	7061.5
10°	9529.3	9503.3	9430.8	9319.3	9144.7	8929.1	8668.9	8379.0	8020.4	7639.4	7234.3
7.5°	9681.7	9657.5	9590.6	9479.1	9319.3	9098.2	8832.5	8522.1	8172.8	7786.2	7371.8
5°	9796.9	9769.0	9702.1	9590.6	9430.8	9215.3	8949.5	8639.2	8286.1	7894.0	7472.2
2.5°	9876.8	9843.4	9769.0	9657.5	9503.3	9291.5	9023.9	8711.7	8354.9	7960.9	7535.4
0°	9899.1	9876.8	9796.9	9681.7	9529.3	9317.5	9049.9	8735.8	8379.0	7983.2	7555.8

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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°	66.9	66.9	65.0	63.2	61.3	57.6	55.7	53.9	52.0	48.3	46.5
85°	141.2	137.5	133.8	130.1	124.5	120.8	115.2	111.5	105.9	100.3	94.8
82.5°	223.0	217.4	210.0	204.4	197.0	187.7	180.3	171.0	161.7	154.2	144.9
80°	312.2	302.9	293.6	284.3	273.2	262.0	250.9	239.7	226.7	213.7	200.7
77.5°	408.8	395.8	382.8	367.9	354.9	340.1	325.2	310.3	293.6	276.9	260.2
75°	516.6	499.9	481.3	462.7	446.0	425.5	405.1	384.7	362.4	341.9	319.6
72.5°	633.7	613.2	590.9	568.6	544.5	518.5	492.4	464.6	438.6	412.5	384.7
70°	760.0	735.9	708.0	680.1	650.4	618.8	587.2	553.8	520.3	486.9	453.4
67.5°	895.7	866.0	832.5	799.1	761.9	724.7	687.6	648.5	607.7	566.8	527.8
65°	1040.6	1003.5	964.5	921.7	879.0	836.2	791.6	745.2	698.7	650.4	607.7
62.5°	1202.3	1155.9	1105.7	1053.7	1005.3	953.3	905.0	847.4	791.6	737.7	683.9
60°	1390.0	1328.7	1267.4	1202.3	1141.0	1074.1	1014.6	951.4	888.3	826.9	763.8
57.5°	1600.0	1521.9	1447.6	1369.6	1287.8	1213.5	1137.3	1061.1	990.5	918.0	849.2
55°	1837.9	1743.1	1650.2	1553.5	1458.8	1365.8	1269.2	1183.7	1096.4	1014.6	934.7
52.5°	2098.0	1990.2	1875.0	1765.4	1644.6	1529.4	1421.6	1313.8	1211.6	1113.1	1022.1
50°	2376.8	2250.4	2118.5	1984.7	1847.1	1711.5	1581.4	1455.0	1336.1	1220.9	1113.1
47.5°	2666.6	2523.6	2373.0	2220.7	2073.9	1908.5	1752.4	1609.3	1466.2	1336.1	1211.6
45°	2964.0	2802.3	2636.9	2464.1	2291.3	2112.9	1940.1	1765.4	1609.3	1455.0	1313.8
42.5°	3270.6	3088.5	2904.5	2713.1	2521.7	2326.6	2131.5	1940.1	1752.4	1581.4	1421.6
40°	3586.5	3385.8	3175.8	2967.7	2763.3	2540.3	2326.6	2112.9	1908.5	1711.5	1529.4
37.5°	3902.4	3683.1	3456.4	3222.3	2988.1	2763.3	2521.7	2291.3	2073.9	1847.1	1644.6
35°	4220.2	3978.6	3733.3	3478.7	3222.3	2967.7	2713.1	2464.1	2220.7	1984.7	1765.4
32.5°	4539.8	4275.9	4004.6	3733.3	3456.4	3175.8	2904.5	2636.9	2373.0	2118.5	1875.0
30°	4853.9	4567.7	4275.9	3978.6	3683.1	3385.8	3088.5	2802.3	2523.6	2250.4	1990.2
27.5°	5160.5	4853.9	4539.8	4220.2	3902.4	3586.5	3270.6	2964.0	2666.6	2376.8	2098.0
25°	5455.9	5128.9	4792.5	4452.5	4114.3	3777.9	3445.3	3114.5	2802.3	2497.5	2205.8
22.5°	5734.7	5389.0	5034.1	4673.6	4311.2	3956.3	3606.9	3263.2	2930.5	2610.9	2304.3
20°	6002.3	5632.5	5272.0	4878.0	4498.9	4125.4	3759.3	3398.8	3047.6	2715.0	2393.5
17.5°	6245.7	5857.3	5463.4	5067.6	4669.9	4277.8	3895.0	3536.3	3155.4	2809.7	2479.0
15°	6465.0	6059.9	5647.3	5236.7	4822.3	4415.3	4017.6	3631.1	3253.9	2895.2	2553.3
12.5°	6656.4	6236.4	5809.0	5383.5	4957.9	4536.1	4125.4	3725.9	3339.4	2967.7	2616.5
10°	6814.4	6385.1	5944.7	5506.1	5069.4	4636.4	4212.7	3805.8	3410.0	3029.0	2668.5
7.5°	6942.6	6502.2	6054.3	5602.8	5156.8	4714.5	4283.4	3867.1	3465.7	3075.5	2709.4
5°	7033.6	6587.6	6132.4	5671.5	5219.9	4772.1	4333.5	3911.7	3504.7	3108.9	2739.1
2.5°	7091.2	6656.4	6195.5	5729.1	5272.0	4818.6	4374.4	3947.0	3536.3	3136.8	2763.3
0°	7109.8	6656.4	6195.5	5729.1	5272.0	4818.6	4374.4	3947.0	3536.3	3136.8	2763.3

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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°	44.6	40.9	37.2	35.3	31.6	29.7	26.0	22.3	20.4	16.7	13.0
85°	89.2	81.8	76.2	70.6	65.0	57.6	52.0	46.5	39.0	33.4	26.0
82.5°	135.7	126.4	117.1	107.8	98.5	89.2	78.0	68.8	59.5	50.2	39.0
80°	187.7	172.8	159.8	146.8	133.8	120.8	105.9	92.9	78.0	65.0	52.0
77.5°	241.6	224.9	206.3	187.7	169.1	152.4	133.8	117.1	100.3	81.8	65.0
75°	299.2	276.9	256.4	232.3	210.0	185.8	163.5	141.2	120.8	100.3	78.0
72.5°	358.7	330.8	302.9	276.9	249.0	221.1	195.1	167.2	141.2	117.1	92.9
70°	420.0	386.5	353.1	321.5	289.9	256.4	226.7	195.1	163.5	133.8	105.9
67.5°	485.0	446.0	407.0	366.1	330.8	293.6	256.4	221.1	185.8	152.4	120.8
65°	555.6	509.2	460.9	418.1	371.7	330.8	289.9	249.0	210.0	169.1	133.8
62.5°	628.1	574.2	520.3	466.4	418.1	366.1	321.5	276.9	232.3	187.7	146.8
60°	702.4	641.1	579.8	520.3	460.9	407.0	353.1	302.9	256.4	206.3	159.8
57.5°	778.6	709.9	641.1	574.2	509.2	446.0	386.5	330.8	276.9	224.9	172.8
55°	856.7	778.6	702.4	628.1	555.6	485.0	420.0	358.7	299.2	241.6	187.7
52.5°	934.7	849.2	763.8	683.9	607.7	527.8	453.4	384.7	319.6	260.2	200.7
50°	1014.6	918.0	826.9	737.7	650.4	566.8	486.9	412.5	341.9	276.9	213.7
47.5°	1096.4	990.5	888.3	791.6	698.7	607.7	520.3	438.6	362.4	293.6	226.7
45°	1183.7	1061.1	951.4	847.4	745.2	648.5	553.8	464.6	384.7	310.3	239.7
42.5°	1269.2	1137.3	1014.6	905.0	791.6	687.6	587.2	492.4	405.1	325.2	250.9
40°	1365.8	1213.5	1074.1	953.3	836.2	724.7	618.8	518.5	425.5	340.1	262.0
37.5°	1458.8	1287.8	1141.0	1005.3	879.0	761.9	650.4	544.5	446.0	354.9	273.2
35°	1553.5	1369.6	1202.3	1053.7	921.7	799.1	680.1	568.6	462.7	367.9	284.3
32.5°	1650.2	1447.6	1267.4	1105.7	964.5	832.5	708.0	590.9	481.3	382.8	293.6
30°	1743.1	1521.9	1328.7	1155.9	1003.5	866.0	735.9	613.2	499.9	395.8	302.9
27.5°	1837.9	1600.0	1390.0	1202.3	1040.6	895.7	760.0	633.7	516.6	408.8	312.2
25°	1928.9	1674.3	1447.6	1246.9	1074.1	925.4	786.1	654.1	531.5	420.0	319.6
22.5°	2012.5	1739.4	1499.6	1289.7	1109.4	951.4	808.4	672.7	546.3	431.1	327.1
20°	2088.7	1806.3	1553.5	1332.4	1142.8	977.5	826.9	689.4	559.3	440.4	334.5
17.5°	2163.1	1867.6	1601.8	1371.4	1170.7	999.8	845.5	702.4	570.5	447.8	340.1
15°	2226.2	1921.5	1644.6	1404.9	1196.7	1018.3	860.4	715.4	579.8	455.3	343.8
12.5°	2282.0	1967.9	1681.8	1432.7	1217.2	1035.1	875.3	726.6	589.1	460.9	349.4
10°	2326.6	2005.1	1711.5	1456.9	1235.8	1048.1	884.5	735.9	594.7	466.4	353.1
7.5°	2361.9	2034.8	1735.6	1473.6	1248.8	1059.2	893.8	741.5	600.2	470.1	358.7
5°	2387.9	2057.1	1752.4	1486.6	1259.9	1072.2	905.0	750.7	607.7	475.7	358.7
2.5°	2408.3	2073.9	1765.4	1497.8	1267.4	1072.2	905.0	750.7	607.7	475.7	358.7
0°	2408.3	2073.9	1765.4	1497.8	1267.4	1072.2	905.0	750.7	607.7	475.7	358.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.3	7.4	3.7	0.0
85°	20.4	13.0	7.4	0.0
82.5°	29.7	20.4	9.3	0.0
80°	39.0	26.0	13.0	0.0
77.5°	50.2	33.4	16.7	0.0
75°	59.5	39.0	20.4	0.0
72.5°	68.8	46.5	22.3	0.0
70°	78.0	52.0	26.0	0.0
67.5°	89.2	57.6	29.7	0.0
65°	98.5	65.0	31.6	0.0
62.5°	107.8	70.6	35.3	0.0
60°	117.1	76.2	37.2	0.0
57.5°	126.4	81.8	40.9	0.0
55°	135.7	89.2	44.6	0.0
52.5°	144.9	94.8	46.5	0.0
50°	154.2	100.3	48.3	0.0
47.5°	161.7	105.9	52.0	0.0
45°	171.0	111.5	53.9	0.0
42.5°	180.3	115.2	55.7	0.0
40°	187.7	120.8	57.6	0.0
37.5°	197.0	124.5	61.3	0.0
35°	204.4	130.1	63.2	0.0
32.5°	210.0	133.8	65.0	0.0
30°	217.4	137.5	66.9	0.0
27.5°	223.0	141.2	66.9	0.0
25°	228.6	144.9	68.8	0.0
22.5°	234.1	146.8	70.6	0.0
20°	239.7	150.5	72.5	0.0
17.5°	243.4	152.4	72.5	0.0
15°	247.2	154.2	76.2	0.0
12.5°	249.0	156.1	76.2	0.0
10°	252.7	159.8	76.2	0.0
7.5°	256.4	159.8	76.2	0.0
5°	256.4	159.8	76.2	0.0
2.5°	256.4	159.8	76.2	0.0
0°	256.4	159.8	76.2	0.0

(END OF REPORT)