

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: P624504

Luminaire Tested: **IFLD-S-SA3E-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624504
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-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

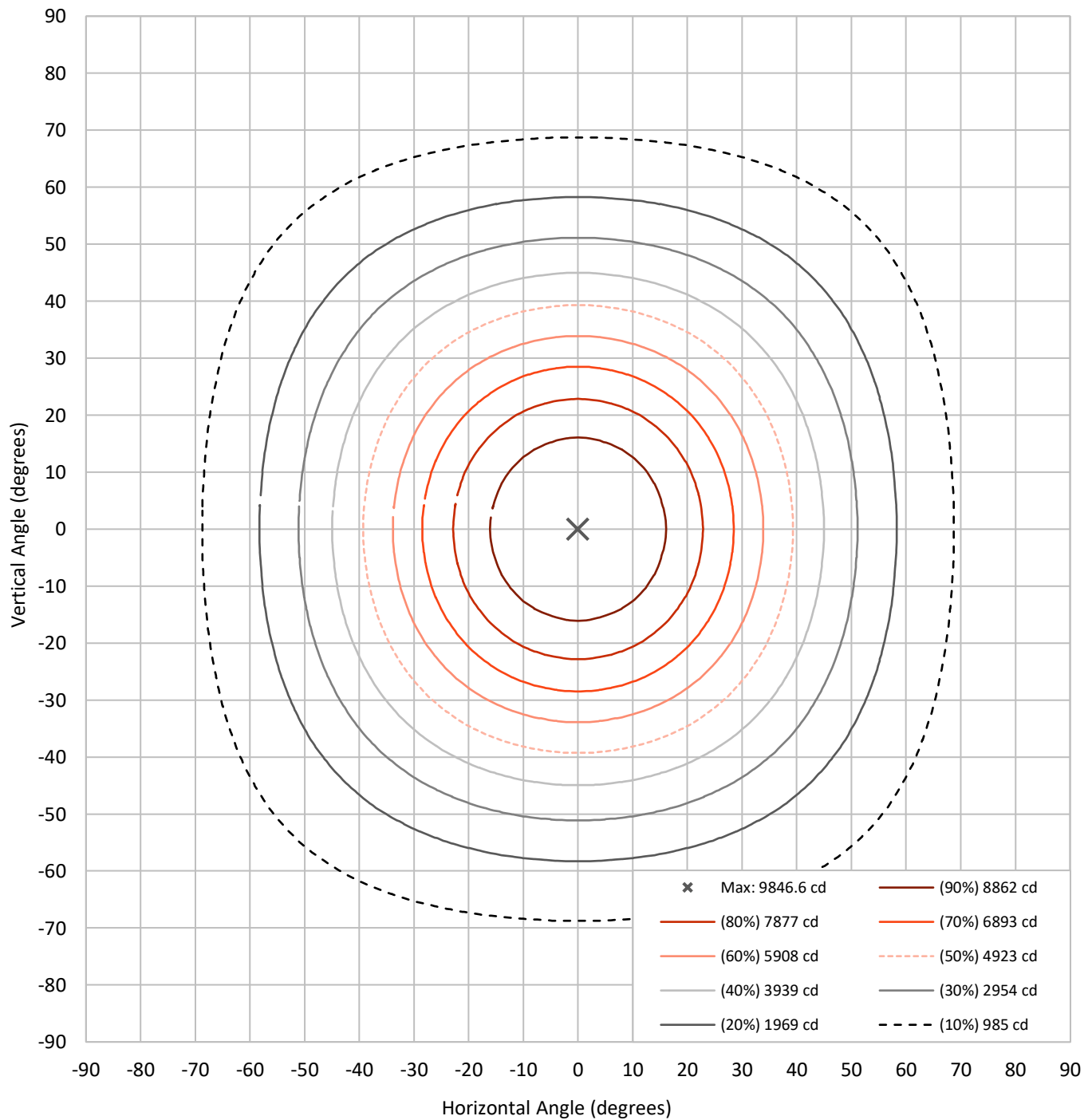
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17729 lumens	Max Intensity:	9846.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	76.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7671.2 lumens	Field Lumens:	12561.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	232.1		
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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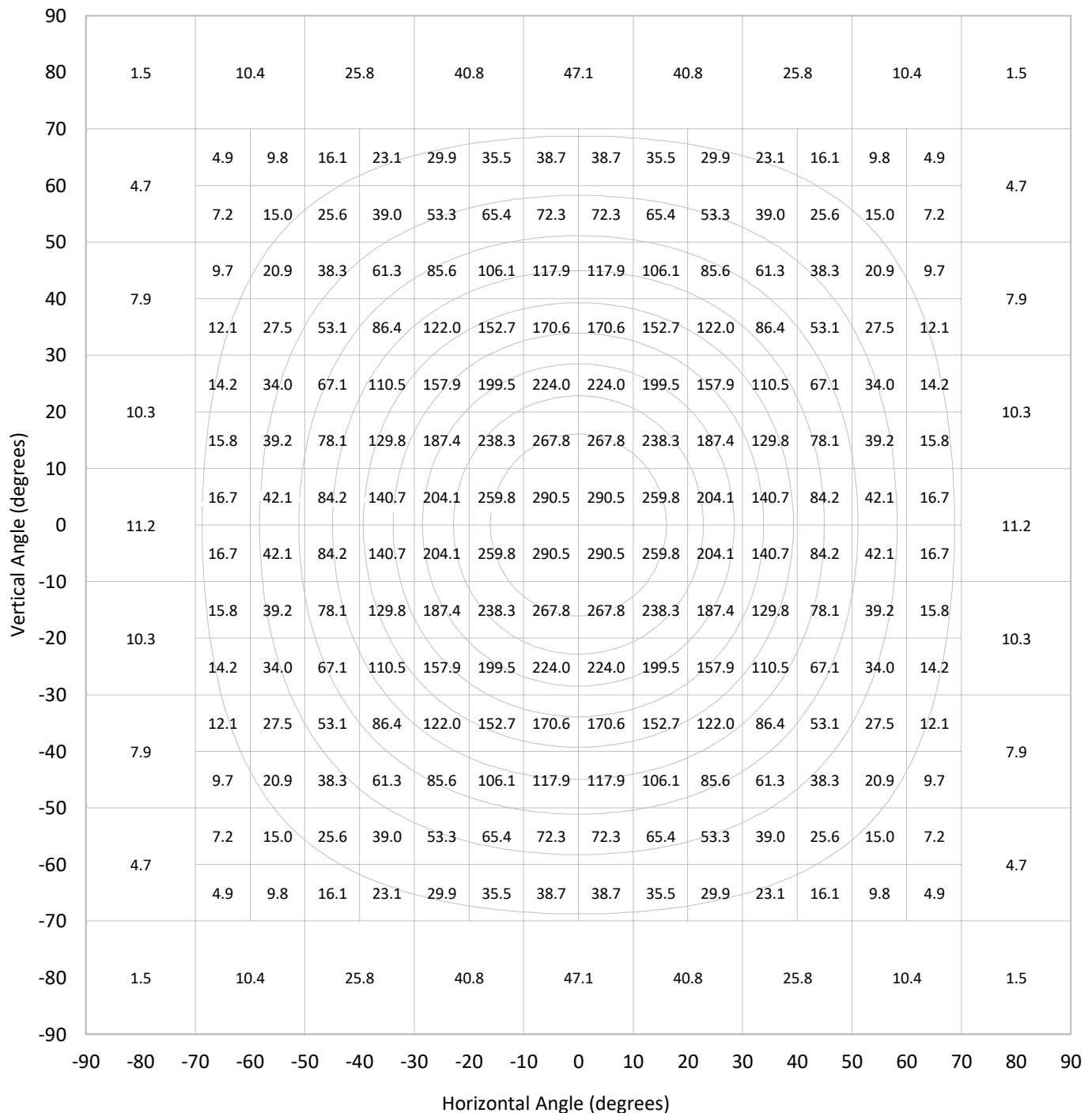
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Iso-Candela Plot



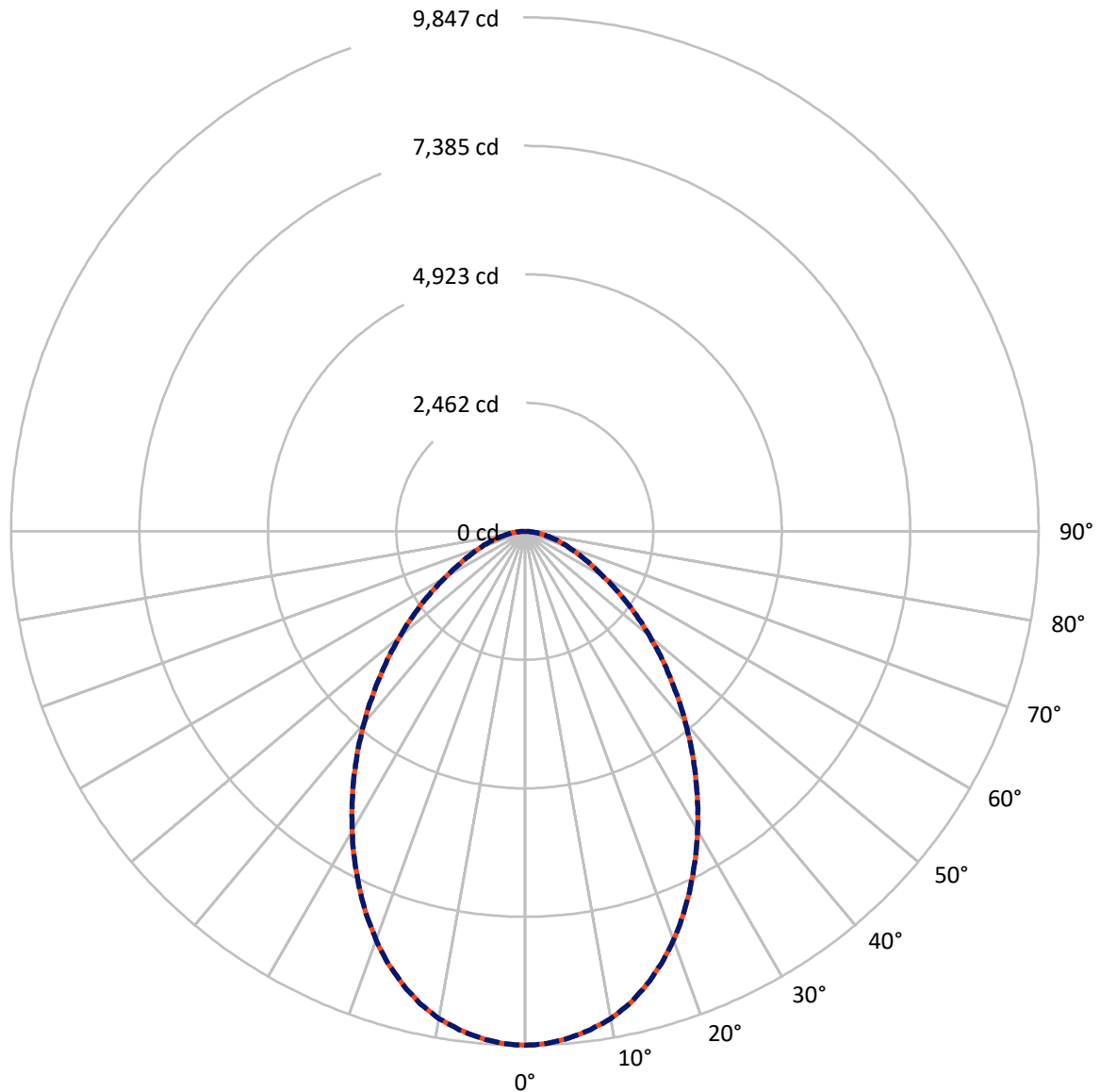
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Lumen Table



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Luminous Intensity Polar Plot

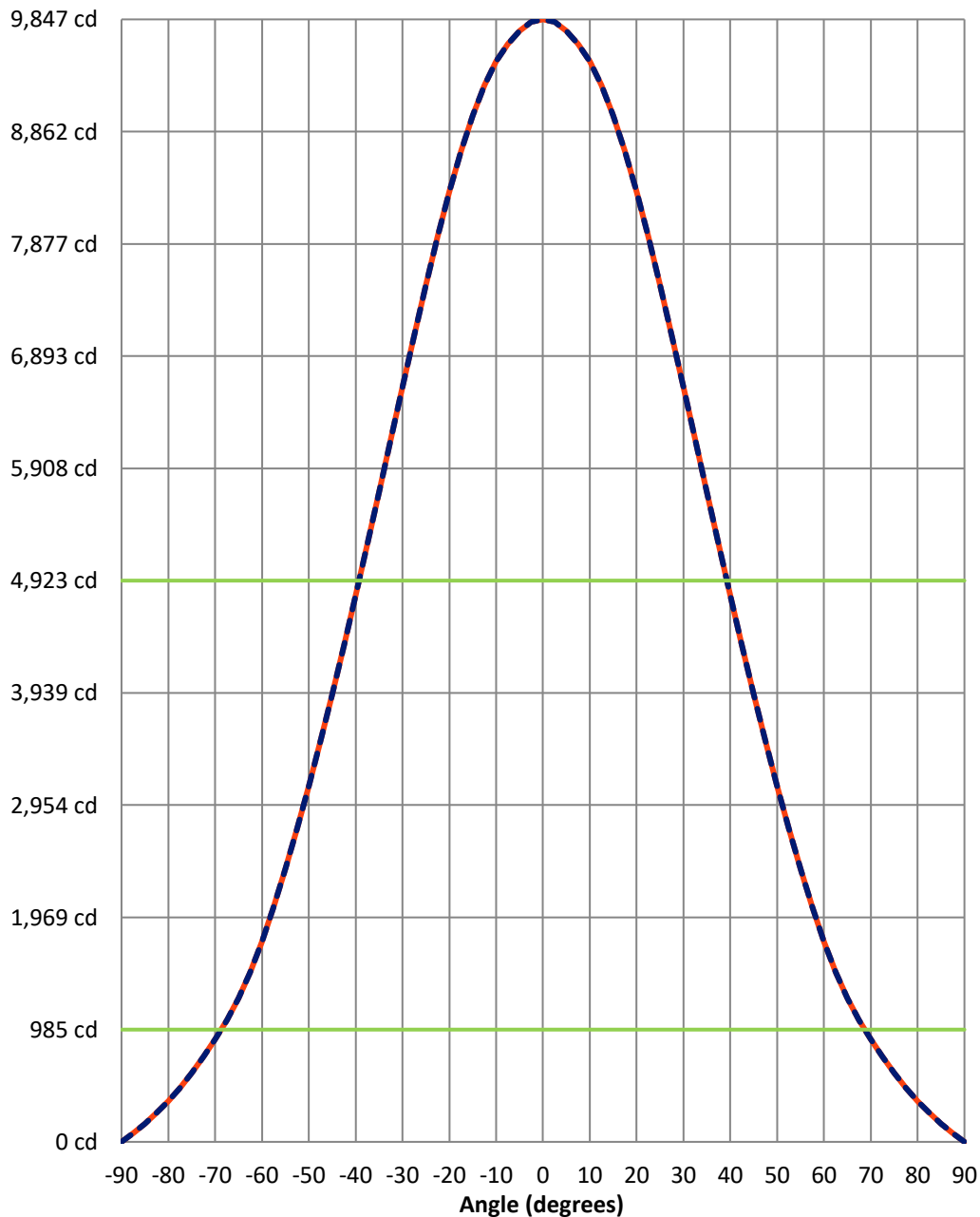


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 7671.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 12561.2
Efficiency: 70.9%

Spill:

Lumens: 5167.7
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°	75.8	75.8	75.8	75.8	75.8	75.8	75.8	72.1	72.1	70.2	68.4
85°	159.0	159.0	159.0	159.0	159.0	155.3	153.4	151.6	149.7	146.0	144.2
82.5°	255.1	255.1	255.1	255.1	251.4	247.7	245.8	242.1	238.4	232.9	227.4
80°	356.7	356.7	356.7	356.7	351.2	347.5	342.0	338.3	332.7	325.3	317.9
77.5°	473.2	473.2	473.2	467.7	464.0	458.4	452.9	445.5	438.1	428.8	417.7
75°	604.4	604.4	604.4	597.0	591.5	586.0	576.7	567.5	556.4	543.4	528.7
72.5°	746.8	746.8	746.8	737.5	732.0	722.7	711.6	698.7	685.8	669.1	650.6
70°	900.2	900.2	900.2	889.1	879.9	870.6	855.8	841.0	822.6	804.1	781.9
67.5°	1066.5	1066.5	1066.5	1053.6	1042.5	1029.6	1012.9	994.5	972.3	946.4	920.5
65°	1260.6	1260.6	1253.2	1242.1	1229.2	1210.7	1190.4	1164.5	1136.8	1103.5	1068.4
62.5°	1489.8	1489.8	1478.7	1465.8	1449.2	1425.1	1397.4	1364.1	1325.3	1282.8	1240.3
60°	1756.0	1756.0	1743.1	1726.4	1702.4	1672.8	1635.9	1593.3	1545.3	1491.7	1439.9
57.5°	2062.8	2062.8	2046.2	2024.0	1994.5	1957.5	1911.3	1857.7	1796.7	1730.1	1665.4
55°	2395.6	2395.6	2375.2	2349.4	2314.2	2269.9	2214.4	2151.6	2077.6	2001.8	1918.7
52.5°	2748.6	2748.6	2724.6	2695.0	2654.3	2602.6	2539.7	2465.8	2380.8	2292.1	2194.1
50°	3120.1	3120.1	3092.4	3059.2	3012.9	2951.9	2879.9	2794.8	2700.6	2597.0	2484.3
47.5°	3517.6	3517.6	3486.1	3447.3	3391.9	3321.6	3236.6	3138.6	3031.4	2915.0	2787.4
45°	3926.1	3926.1	3890.9	3846.6	3785.6	3706.1	3611.8	3517.6	3380.8	3245.8	3098.0
42.5°	4351.2	4351.2	4310.5	4260.6	4190.4	4103.5	3996.3	3874.3	3739.4	3587.8	3427.0
40°	4793.0	4793.0	4746.8	4689.5	4611.8	4512.0	4391.9	4255.1	4103.5	3935.3	3757.9
37.5°	5244.0	5244.0	5192.2	5129.4	5042.5	4931.6	4796.7	4645.1	4475.0	4288.4	4092.4
35°	5698.7	5698.7	5641.4	5573.0	5476.9	5354.9	5208.9	5040.7	4852.1	4648.8	4428.8
32.5°	6162.7	6162.7	6099.8	6022.2	5913.1	5778.2	5617.4	5434.4	5244.0	5007.4	4767.1
30°	6621.1	6621.1	6552.7	6467.7	6351.2	6203.3	6027.7	5826.2	5602.6	5360.4	5101.7
27.5°	7072.1	7053.6	6996.3	6905.7	6778.2	6621.1	6430.7	6212.6	5970.4	5704.3	5427.0
25°	7515.7	7495.4	7432.5	7332.7	7195.9	7024.0	6818.9	6586.0	6325.3	6044.4	5741.2
22.5°	7940.9	7918.7	7852.1	7744.9	7598.9	7412.2	7192.2	6942.7	6665.4	6364.1	6044.4
20°	8334.6	8310.5	8242.1	8129.4	7977.8	7780.0	7547.1	7279.1	6983.4	6665.4	6325.3
17.5°	8689.5	8665.4	8593.3	8476.9	8334.6	8114.6	7874.3	7591.5	7279.1	6942.7	6586.0
15°	9001.9	8976.0	8902.0	8785.6	8622.9	8415.9	8162.7	7874.3	7547.1	7192.2	6818.9
12.5°	9268.0	9242.1	9166.4	9049.9	8881.7	8674.7	8415.9	8114.6	7780.0	7412.2	7024.0
10°	9478.7	9452.9	9380.8	9269.9	9096.1	8881.7	8622.9	8334.6	7977.8	7598.9	7195.9
7.5°	9630.3	9606.3	9539.7	9428.8	9269.9	9049.9	8785.6	8476.9	8129.4	7744.9	7332.7
5°	9744.9	9717.2	9650.6	9539.7	9380.8	9166.4	8902.0	8593.3	8242.1	7852.1	7432.5
2.5°	9824.4	9791.1	9717.2	9606.3	9452.9	9242.1	8976.0	8665.4	8310.5	7918.7	7495.4
0°	9846.6	9824.4	9744.9	9630.3	9478.7	9268.0	9001.9	8689.5	8334.6	7940.9	7515.7

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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°	66.5	66.5	64.7	62.8	61.0	57.3	55.5	53.6	51.8	48.1	46.2
85°	140.5	136.8	133.1	129.4	123.8	120.1	114.6	110.9	105.4	99.8	94.3
82.5°	221.8	216.3	208.9	203.3	195.9	186.7	179.3	170.1	160.8	153.4	144.2
80°	310.5	301.3	292.1	282.8	271.7	260.6	249.5	238.4	225.5	212.6	199.6
77.5°	406.7	393.7	380.8	366.0	353.0	338.3	323.5	308.7	292.1	275.4	258.8
75°	513.9	497.2	478.7	460.3	443.6	423.3	403.0	382.6	360.4	340.1	317.9
72.5°	630.3	610.0	587.8	565.6	541.6	515.7	489.8	462.1	436.2	410.4	382.6
70°	756.0	732.0	704.3	676.5	647.0	615.5	584.1	550.8	517.6	484.3	451.0
67.5°	890.9	861.4	828.1	794.8	757.9	720.9	683.9	645.1	604.4	563.8	525.0
65°	1035.1	998.2	959.3	916.8	874.3	831.8	787.4	741.2	695.0	647.0	604.4
62.5°	1195.9	1149.7	1099.8	1048.1	1000.0	948.2	900.2	842.9	787.4	733.8	680.2
60°	1382.6	1321.6	1260.6	1195.9	1134.9	1068.4	1009.2	946.4	883.5	822.6	759.7
57.5°	1591.5	1513.9	1439.9	1362.3	1281.0	1207.0	1131.2	1055.5	985.2	913.1	844.7
55°	1828.1	1733.8	1641.4	1545.3	1451.0	1358.6	1262.5	1177.4	1090.6	1009.2	929.8
52.5°	2086.9	1979.7	1865.1	1756.0	1635.9	1521.3	1414.0	1306.8	1205.2	1107.2	1016.6
50°	2364.1	2238.4	2107.2	1974.1	1837.3	1702.4	1573.0	1447.3	1329.0	1214.4	1107.2
47.5°	2652.5	2510.2	2360.4	2208.9	2062.8	1898.3	1743.1	1600.7	1458.4	1329.0	1205.2
45°	2948.2	2787.4	2622.9	2451.0	2279.1	2101.7	1929.8	1756.0	1600.7	1447.3	1306.8
42.5°	3253.2	3072.1	2889.1	2698.7	2508.3	2314.2	2120.1	1929.8	1743.1	1573.0	1414.0
40°	3567.5	3367.8	3159.0	2951.9	2748.6	2526.8	2314.2	2101.7	1898.3	1702.4	1521.3
37.5°	3881.7	3663.6	3438.1	3205.2	2972.3	2748.6	2508.3	2279.1	2062.8	1837.3	1635.9
35°	4197.8	3957.5	3713.5	3460.3	3205.2	2951.9	2698.7	2451.0	2208.9	1974.1	1756.0
32.5°	4515.7	4253.2	3983.4	3713.5	3438.1	3159.0	2889.1	2622.9	2360.4	2107.2	1865.1
30°	4828.1	4543.4	4253.2	3957.5	3663.6	3367.8	3072.1	2787.4	2510.2	2238.4	1979.7
27.5°	5133.1	4828.1	4515.7	4197.8	3881.7	3567.5	3253.2	2948.2	2652.5	2364.1	2086.9
25°	5427.0	5101.7	4767.1	4428.8	4092.4	3757.9	3427.0	3098.0	2787.4	2484.3	2194.1
22.5°	5704.3	5360.4	5007.4	4648.8	4288.4	3935.3	3587.8	3245.8	2915.0	2597.0	2292.1
20°	5970.4	5602.6	5244.0	4852.1	4475.0	4103.5	3739.4	3380.8	3031.4	2700.6	2380.8
17.5°	6212.6	5826.2	5434.4	5040.7	4645.1	4255.1	3874.3	3517.6	3138.6	2794.8	2465.8
15°	6430.7	6027.7	5617.4	5208.9	4796.7	4391.9	3996.3	3611.8	3236.6	2879.9	2539.7
12.5°	6621.1	6203.3	5778.2	5354.9	4931.6	4512.0	4103.5	3706.1	3321.6	2951.9	2602.6
10°	6778.2	6351.2	5913.1	5476.9	5042.5	4611.8	4190.4	3785.6	3391.9	3012.9	2654.3
7.5°	6905.7	6467.7	6022.2	5573.0	5129.4	4689.5	4260.6	3846.6	3447.3	3059.2	2695.0
5°	6996.3	6552.7	6099.8	5641.4	5192.2	4746.8	4310.5	3890.9	3486.1	3092.4	2724.6
2.5°	7053.6	6621.1	6162.7	5698.7	5244.0	4793.0	4351.2	3926.1	3517.6	3120.1	2748.6
0°	7072.1	6621.1	6162.7	5698.7	5244.0	4793.0	4351.2	3926.1	3517.6	3120.1	2748.6

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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°	44.4	40.7	37.0	35.1	31.4	29.6	25.9	22.2	20.3	16.6	12.9
85°	88.7	81.3	75.8	70.2	64.7	57.3	51.8	46.2	38.8	33.3	25.9
82.5°	134.9	125.7	116.5	107.2	98.0	88.7	77.6	68.4	59.1	49.9	38.8
80°	186.7	171.9	159.0	146.0	133.1	120.1	105.4	92.4	77.6	64.7	51.8
77.5°	240.3	223.7	205.2	186.7	168.2	151.6	133.1	116.5	99.8	81.3	64.7
75°	297.6	275.4	255.1	231.1	208.9	184.8	162.7	140.5	120.1	99.8	77.6
72.5°	356.7	329.0	301.3	275.4	247.7	220.0	194.1	166.4	140.5	116.5	92.4
70°	417.7	384.5	351.2	319.8	288.4	255.1	225.5	194.1	162.7	133.1	105.4
67.5°	482.4	443.6	404.8	364.1	329.0	292.1	255.1	220.0	184.8	151.6	120.1
65°	552.7	506.5	458.4	415.9	369.7	329.0	288.4	247.7	208.9	168.2	133.1
62.5°	624.8	571.2	517.6	464.0	415.9	364.1	319.8	275.4	231.1	186.7	146.0
60°	698.7	637.7	576.7	517.6	458.4	404.8	351.2	301.3	255.1	205.2	159.0
57.5°	774.5	706.1	637.7	571.2	506.5	443.6	384.5	329.0	275.4	223.7	171.9
55°	852.1	774.5	698.7	624.8	552.7	482.4	417.7	356.7	297.6	240.3	186.7
52.5°	929.8	844.7	759.7	680.2	604.4	525.0	451.0	382.6	317.9	258.8	199.6
50°	1009.2	913.1	822.6	733.8	647.0	563.8	484.3	410.4	340.1	275.4	212.6
47.5°	1090.6	985.2	883.5	787.4	695.0	604.4	517.6	436.2	360.4	292.1	225.5
45°	1177.4	1055.5	946.4	842.9	741.2	645.1	550.8	462.1	382.6	308.7	238.4
42.5°	1262.5	1131.2	1009.2	900.2	787.4	683.9	584.1	489.8	403.0	323.5	249.5
40°	1358.6	1207.0	1068.4	948.2	831.8	720.9	615.5	515.7	423.3	338.3	260.6
37.5°	1451.0	1281.0	1134.9	1000.0	874.3	757.9	647.0	541.6	443.6	353.0	271.7
35°	1545.3	1362.3	1195.9	1048.1	916.8	794.8	676.5	565.6	460.3	366.0	282.8
32.5°	1641.4	1439.9	1260.6	1099.8	959.3	828.1	704.3	587.8	478.7	380.8	292.1
30°	1733.8	1513.9	1321.6	1149.7	998.2	861.4	732.0	610.0	497.2	393.7	301.3
27.5°	1828.1	1591.5	1382.6	1195.9	1035.1	890.9	756.0	630.3	513.9	406.7	310.5
25°	1918.7	1665.4	1439.9	1240.3	1068.4	920.5	781.9	650.6	528.7	417.7	317.9
22.5°	2001.8	1730.1	1491.7	1282.8	1103.5	946.4	804.1	669.1	543.4	428.8	325.3
20°	2077.6	1796.7	1545.3	1325.3	1136.8	972.3	822.6	685.8	556.4	438.1	332.7
17.5°	2151.6	1857.7	1593.3	1364.1	1164.5	994.5	841.0	698.7	567.5	445.5	338.3
15°	2214.4	1911.3	1635.9	1397.4	1190.4	1012.9	855.8	711.6	576.7	452.9	342.0
12.5°	2269.9	1957.5	1672.8	1425.1	1210.7	1029.6	870.6	722.7	586.0	458.4	347.5
10°	2314.2	1994.5	1702.4	1449.2	1229.2	1042.5	879.9	732.0	591.5	464.0	351.2
7.5°	2349.4	2024.0	1726.4	1465.8	1242.1	1053.6	889.1	737.5	597.0	467.7	356.7
5°	2375.2	2046.2	1743.1	1478.7	1253.2	1066.5	900.2	746.8	604.4	473.2	356.7
2.5°	2395.6	2062.8	1756.0	1489.8	1260.6	1066.5	900.2	746.8	604.4	473.2	356.7
0°	2395.6	2062.8	1756.0	1489.8	1260.6	1066.5	900.2	746.8	604.4	473.2	356.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.2	7.4	3.7	0.0
85°	20.3	12.9	7.4	0.0
82.5°	29.6	20.3	9.2	0.0
80°	38.8	25.9	12.9	0.0
77.5°	49.9	33.3	16.6	0.0
75°	59.1	38.8	20.3	0.0
72.5°	68.4	46.2	22.2	0.0
70°	77.6	51.8	25.9	0.0
67.5°	88.7	57.3	29.6	0.0
65°	98.0	64.7	31.4	0.0
62.5°	107.2	70.2	35.1	0.0
60°	116.5	75.8	37.0	0.0
57.5°	125.7	81.3	40.7	0.0
55°	134.9	88.7	44.4	0.0
52.5°	144.2	94.3	46.2	0.0
50°	153.4	99.8	48.1	0.0
47.5°	160.8	105.4	51.8	0.0
45°	170.1	110.9	53.6	0.0
42.5°	179.3	114.6	55.5	0.0
40°	186.7	120.1	57.3	0.0
37.5°	195.9	123.8	61.0	0.0
35°	203.3	129.4	62.8	0.0
32.5°	208.9	133.1	64.7	0.0
30°	216.3	136.8	66.5	0.0
27.5°	221.8	140.5	66.5	0.0
25°	227.4	144.2	68.4	0.0
22.5°	232.9	146.0	70.2	0.0
20°	238.4	149.7	72.1	0.0
17.5°	242.1	151.6	72.1	0.0
15°	245.8	153.4	75.8	0.0
12.5°	247.7	155.3	75.8	0.0
10°	251.4	159.0	75.8	0.0
7.5°	255.1	159.0	75.8	0.0
5°	255.1	159.0	75.8	0.0
2.5°	255.1	159.0	75.8	0.0
0°	255.1	159.0	75.8	0.0

(END OF REPORT)