

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: P624588

Luminaire Tested: **IFLD-S-SA3B-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624588
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

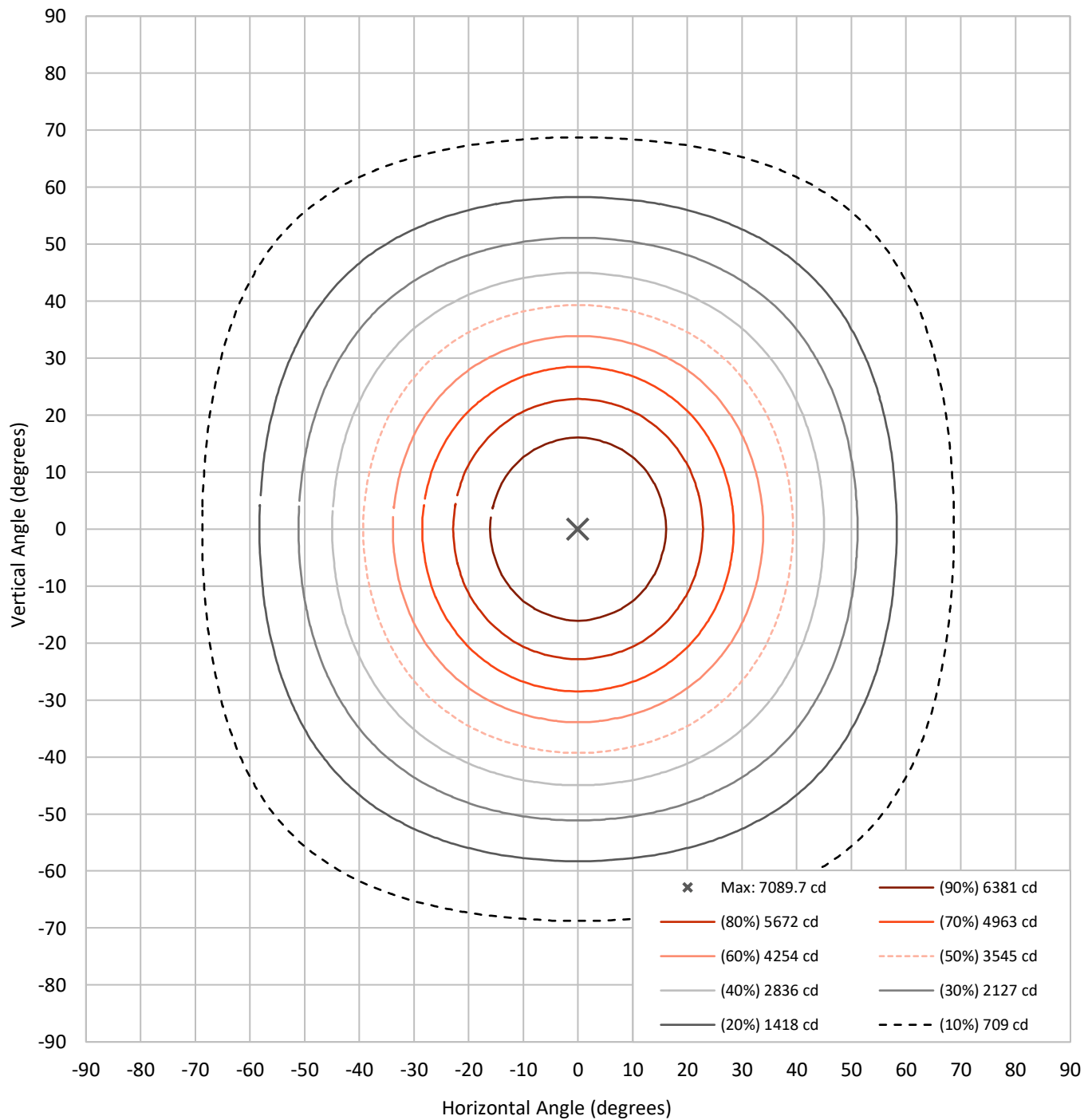
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12765.2 lumens	Max Intensity:	7089.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5523.4 lumens	Field Lumens:	9044.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	122.4		
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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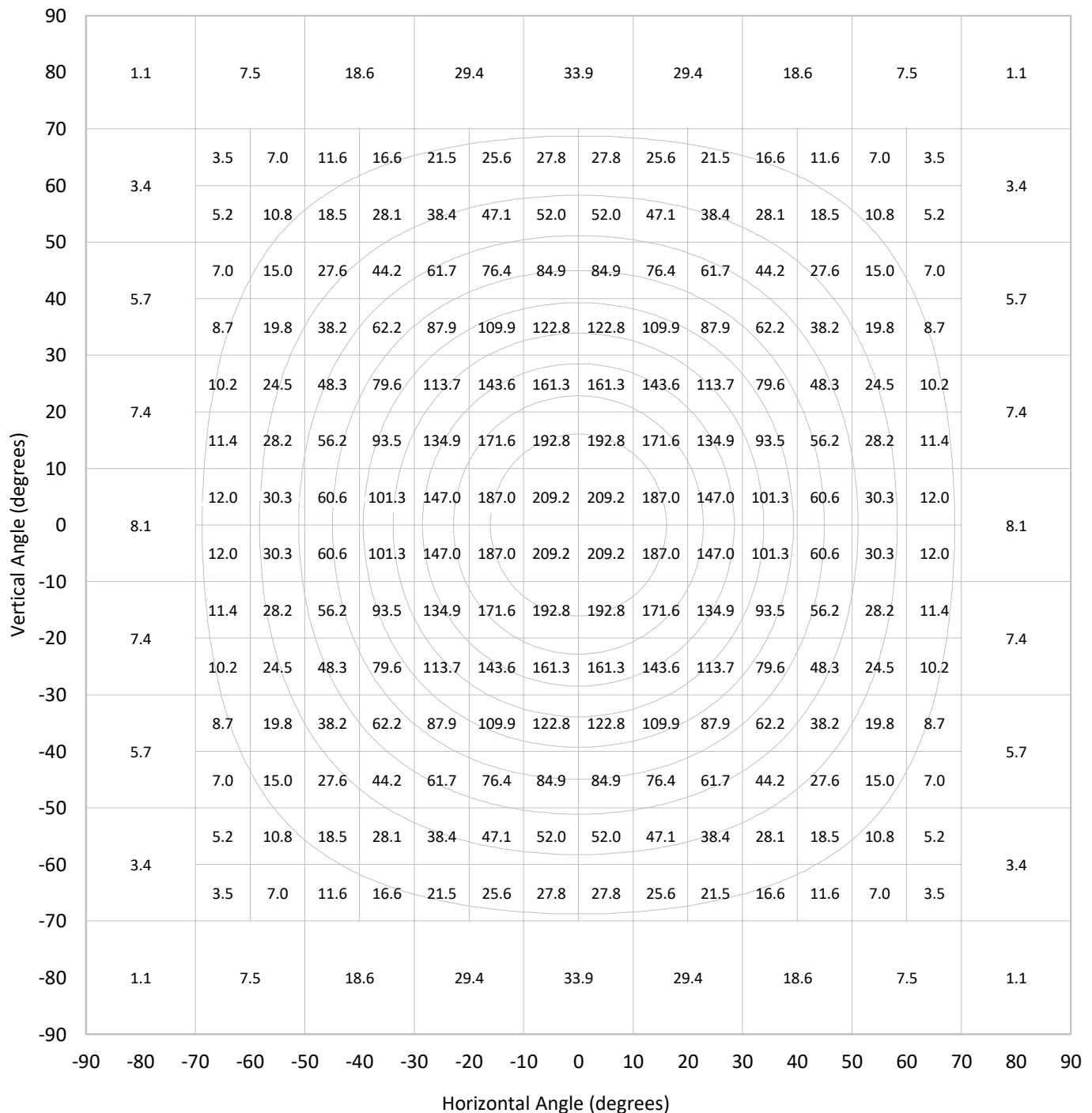
CATALOG NUMBER: IFLD-S-SA3B-940-U-77

Iso-Candela Plot



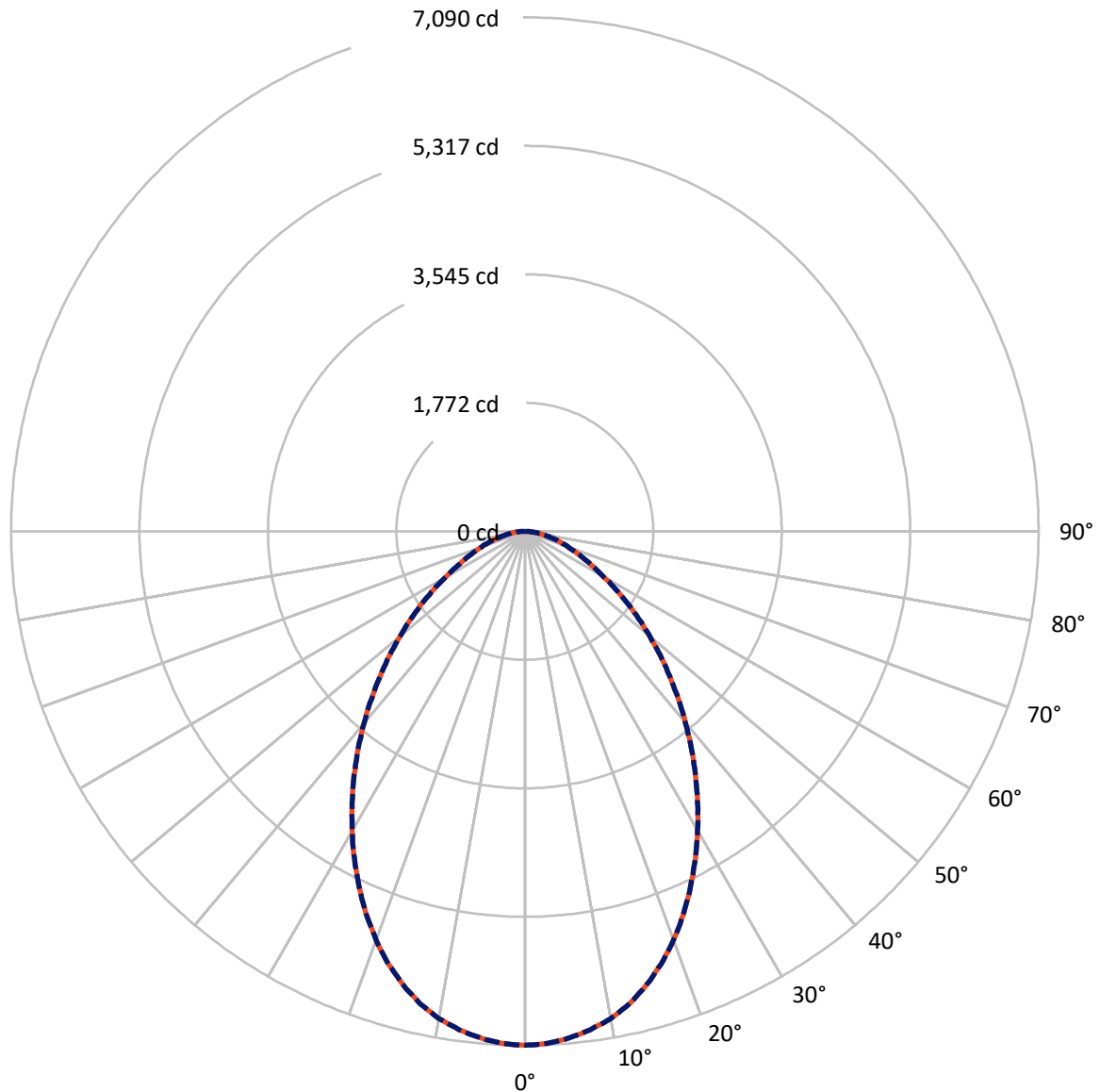
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Lumen Table



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Luminous Intensity Polar Plot

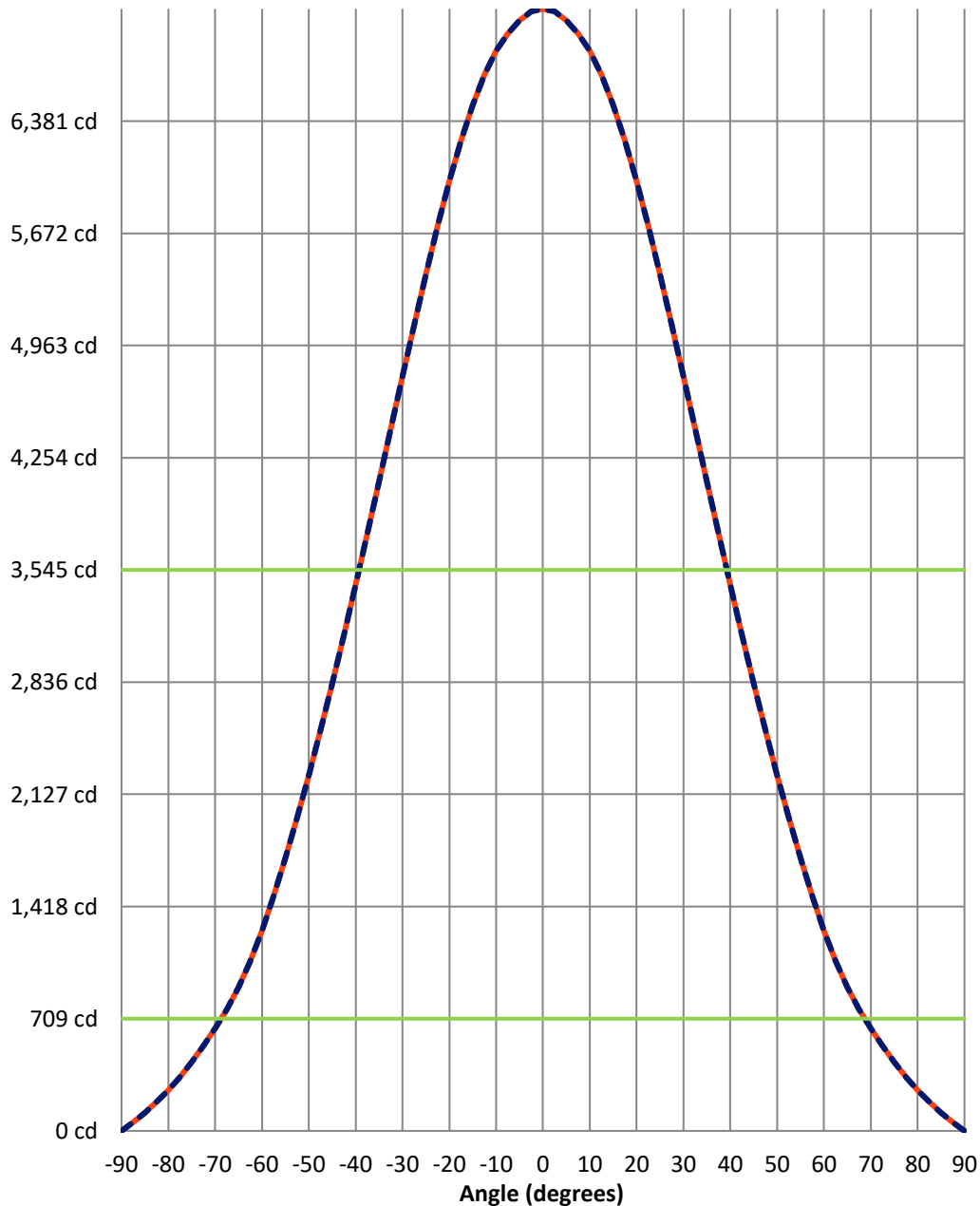


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 5523.4

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 9044.4

Efficiency: 70.9%

Spill:

Lumens: 3720.9

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°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	51.9	51.9	50.6	49.2
85°	114.5	114.5	114.5	114.5	114.5	111.8	110.5	109.1	107.8	105.1	103.8
82.5°	183.7	183.7	183.7	183.7	181.0	178.3	177.0	174.3	171.7	167.7	163.7
80°	256.9	256.9	256.9	256.9	252.9	250.2	246.2	243.6	239.6	234.2	228.9
77.5°	340.7	340.7	340.7	336.7	334.1	330.1	326.1	320.7	315.4	308.8	300.8
75°	435.2	435.2	435.2	429.9	425.9	421.9	415.2	408.6	400.6	391.3	380.6
72.5°	537.7	537.7	537.7	531.0	527.0	520.4	512.4	503.1	493.8	481.8	468.5
70°	648.2	648.2	648.2	640.2	633.5	626.9	616.2	605.6	592.3	578.9	563.0
67.5°	767.9	767.9	767.9	758.6	750.6	741.3	729.3	716.0	700.1	681.4	662.8
65°	907.7	907.7	902.4	894.4	885.1	871.7	857.1	838.5	818.5	794.6	769.3
62.5°	1072.7	1072.7	1064.7	1055.4	1043.4	1026.1	1006.2	982.2	954.3	923.6	893.0
60°	1264.4	1264.4	1255.0	1243.1	1225.8	1204.5	1177.9	1147.2	1112.6	1074.0	1036.8
57.5°	1485.3	1485.3	1473.3	1457.3	1436.0	1409.4	1376.2	1337.6	1293.6	1245.7	1199.1
55°	1724.9	1724.9	1710.2	1691.6	1666.3	1634.4	1594.4	1549.2	1495.9	1441.4	1381.5
52.5°	1979.1	1979.1	1961.8	1940.5	1911.2	1873.9	1828.7	1775.4	1714.2	1650.3	1579.8
50°	2246.6	2246.6	2226.6	2202.7	2169.4	2125.5	2073.6	2012.3	1944.5	1869.9	1788.7
47.5°	2532.7	2532.7	2510.1	2482.1	2442.2	2391.6	2330.4	2259.9	2182.7	2098.8	2007.0
45°	2826.8	2826.8	2801.6	2769.6	2725.7	2668.5	2600.6	2532.7	2434.2	2337.1	2230.6
42.5°	3133.0	3133.0	3103.7	3067.7	3017.2	2954.6	2877.4	2789.6	2692.4	2583.3	2467.5
40°	3451.0	3451.0	3417.8	3376.5	3320.6	3248.7	3162.2	3063.7	2954.6	2833.5	2705.7
37.5°	3775.8	3775.8	3738.5	3693.3	3630.7	3550.9	3453.7	3344.6	3222.1	3087.7	2946.6
35°	4103.2	4103.2	4061.9	4012.7	3943.5	3855.6	3750.5	3629.4	3493.6	3347.2	3188.9
32.5°	4437.2	4437.2	4392.0	4336.1	4257.6	4160.4	4044.6	3912.9	3775.8	3605.4	3432.4
30°	4767.3	4767.3	4718.1	4656.8	4573.0	4466.5	4340.1	4195.0	4034.0	3859.6	3673.3
27.5°	5092.0	5078.7	5037.5	4972.3	4880.4	4767.3	4630.2	4473.2	4298.8	4107.2	3907.5
25°	5411.5	5396.8	5351.6	5279.7	5181.2	5057.4	4909.7	4742.0	4554.4	4352.1	4133.8
22.5°	5717.6	5701.6	5653.7	5576.5	5471.4	5336.9	5178.6	4998.9	4799.2	4582.3	4352.1
20°	6001.1	5983.8	5934.5	5853.3	5744.2	5601.8	5434.1	5241.1	5028.2	4799.2	4554.4
17.5°	6256.6	6239.3	6187.4	6103.5	6001.1	5842.7	5669.7	5466.0	5241.1	4998.9	4742.0
15°	6481.5	6462.9	6409.6	6325.8	6208.7	6059.6	5877.3	5669.7	5434.1	5178.6	4909.7
12.5°	6673.2	6654.5	6600.0	6516.1	6395.0	6245.9	6059.6	5842.7	5601.8	5336.9	5057.4
10°	6824.9	6806.3	6754.4	6674.5	6549.4	6395.0	6208.7	6001.1	5744.2	5471.4	5181.2
7.5°	6934.0	6916.7	6868.8	6789.0	6674.5	6516.1	6325.8	6103.5	5853.3	5576.5	5279.7
5°	7016.5	6996.6	6948.7	6868.8	6754.4	6600.0	6409.6	6187.4	5934.5	5653.7	5351.6
2.5°	7073.8	7049.8	6996.6	6916.7	6806.3	6654.5	6462.9	6239.3	5983.8	5701.6	5396.8
0°	7089.7	7073.8	7016.5	6934.0	6824.9	6673.2	6481.5	6256.6	6001.1	5717.6	5411.5

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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°	47.9	47.9	46.6	45.3	43.9	41.3	39.9	38.6	37.3	34.6	33.3
85°	101.1	98.5	95.8	93.2	89.2	86.5	82.5	79.9	75.9	71.9	67.9
82.5°	159.7	155.7	150.4	146.4	141.1	134.4	129.1	122.4	115.8	110.5	103.8
80°	223.6	216.9	210.3	203.6	195.6	187.7	179.7	171.7	162.4	153.1	143.7
77.5°	292.8	283.5	274.2	263.5	254.2	243.6	232.9	222.3	210.3	198.3	186.3
75°	370.0	358.0	344.7	331.4	319.4	304.8	290.1	275.5	259.5	244.9	228.9
72.5°	453.8	439.2	423.2	407.3	390.0	371.3	352.7	332.7	314.1	295.5	275.5
70°	544.3	527.0	507.1	487.1	465.8	443.2	420.6	396.6	372.7	348.7	324.7
67.5°	641.5	620.2	596.2	572.3	545.7	519.1	492.4	464.5	435.2	405.9	378.0
65°	745.3	718.7	690.7	660.1	629.5	598.9	567.0	533.7	500.4	465.8	435.2
62.5°	861.1	827.8	791.9	754.6	720.0	682.8	648.2	606.9	567.0	528.4	489.8
60°	995.5	951.6	907.7	861.1	817.2	769.3	726.7	681.4	636.2	592.3	547.0
57.5°	1145.9	1090.0	1036.8	980.9	922.3	869.1	814.5	759.9	709.4	657.5	608.2
55°	1316.3	1248.4	1181.8	1112.6	1044.8	978.2	909.0	847.8	785.2	726.7	669.4
52.5°	1502.6	1425.4	1342.9	1264.4	1177.9	1095.3	1018.1	941.0	867.8	797.2	732.0
50°	1702.2	1611.7	1517.2	1421.4	1322.9	1225.8	1132.6	1042.1	956.9	874.4	797.2
47.5°	1909.9	1807.4	1699.6	1590.4	1485.3	1366.8	1255.0	1152.6	1050.1	956.9	867.8
45°	2122.8	2007.0	1888.6	1764.8	1641.0	1513.2	1389.5	1264.4	1152.6	1042.1	941.0
42.5°	2342.4	2212.0	2080.2	1943.1	1806.0	1666.3	1526.6	1389.5	1255.0	1132.6	1018.1
40°	2568.7	2424.9	2274.5	2125.5	1979.1	1819.3	1666.3	1513.2	1366.8	1225.8	1095.3
37.5°	2794.9	2637.9	2475.5	2307.8	2140.1	1979.1	1806.0	1641.0	1485.3	1322.9	1177.9
35°	3022.5	2849.5	2673.8	2491.5	2307.8	2125.5	1943.1	1764.8	1590.4	1421.4	1264.4
32.5°	3251.4	3062.4	2868.1	2673.8	2475.5	2274.5	2080.2	1888.6	1699.6	1517.2	1342.9
30°	3476.3	3271.4	3062.4	2849.5	2637.9	2424.9	2212.0	2007.0	1807.4	1611.7	1425.4
27.5°	3695.9	3476.3	3251.4	3022.5	2794.9	2568.7	2342.4	2122.8	1909.9	1702.2	1502.6
25°	3907.5	3673.3	3432.4	3188.9	2946.6	2705.7	2467.5	2230.6	2007.0	1788.7	1579.8
22.5°	4107.2	3859.6	3605.4	3347.2	3087.7	2833.5	2583.3	2337.1	2098.8	1869.9	1650.3
20°	4298.8	4034.0	3775.8	3493.6	3222.1	2954.6	2692.4	2434.2	2182.7	1944.5	1714.2
17.5°	4473.2	4195.0	3912.9	3629.4	3344.6	3063.7	2789.6	2532.7	2259.9	2012.3	1775.4
15°	4630.2	4340.1	4044.6	3750.5	3453.7	3162.2	2877.4	2600.6	2330.4	2073.6	1828.7
12.5°	4767.3	4466.5	4160.4	3855.6	3550.9	3248.7	2954.6	2668.5	2391.6	2125.5	1873.9
10°	4880.4	4573.0	4257.6	3943.5	3630.7	3320.6	3017.2	2725.7	2442.2	2169.4	1911.2
7.5°	4972.3	4656.8	4336.1	4012.7	3693.3	3376.5	3067.7	2769.6	2482.1	2202.7	1940.5
5°	5037.5	4718.1	4392.0	4061.9	3738.5	3417.8	3103.7	2801.6	2510.1	2226.6	1961.8
2.5°	5078.7	4767.3	4437.2	4103.2	3775.8	3451.0	3133.0	2826.8	2532.7	2246.6	1979.1
0°	5092.0	4767.3	4437.2	4103.2	3775.8	3451.0	3133.0	2826.8	2532.7	2246.6	1979.1

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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°	31.9	29.3	26.6	25.3	22.6	21.3	18.6	16.0	14.6	12.0	9.3
85°	63.9	58.6	54.6	50.6	46.6	41.3	37.3	33.3	27.9	24.0	18.6
82.5°	97.2	90.5	83.8	77.2	70.5	63.9	55.9	49.2	42.6	35.9	27.9
80°	134.4	123.8	114.5	105.1	95.8	86.5	75.9	66.5	55.9	46.6	37.3
77.5°	173.0	161.0	147.7	134.4	121.1	109.1	95.8	83.8	71.9	58.6	46.6
75°	214.3	198.3	183.7	166.4	150.4	133.1	117.1	101.1	86.5	71.9	55.9
72.5°	256.9	236.9	216.9	198.3	178.3	158.4	139.7	119.8	101.1	83.8	66.5
70°	300.8	276.8	252.9	230.2	207.6	183.7	162.4	139.7	117.1	95.8	75.9
67.5°	347.4	319.4	291.5	262.2	236.9	210.3	183.7	158.4	133.1	109.1	86.5
65°	397.9	364.7	330.1	299.5	266.2	236.9	207.6	178.3	150.4	121.1	95.8
62.5°	449.8	411.3	372.7	334.1	299.5	262.2	230.2	198.3	166.4	134.4	105.1
60°	503.1	459.2	415.2	372.7	330.1	291.5	252.9	216.9	183.7	147.7	114.5
57.5°	557.6	508.4	459.2	411.3	364.7	319.4	276.8	236.9	198.3	161.0	123.8
55°	613.5	557.6	503.1	449.8	397.9	347.4	300.8	256.9	214.3	173.0	134.4
52.5°	669.4	608.2	547.0	489.8	435.2	378.0	324.7	275.5	228.9	186.3	143.7
50°	726.7	657.5	592.3	528.4	465.8	405.9	348.7	295.5	244.9	198.3	153.1
47.5°	785.2	709.4	636.2	567.0	500.4	435.2	372.7	314.1	259.5	210.3	162.4
45°	847.8	759.9	681.4	606.9	533.7	464.5	396.6	332.7	275.5	222.3	171.7
42.5°	909.0	814.5	726.7	648.2	567.0	492.4	420.6	352.7	290.1	232.9	179.7
40°	978.2	869.1	769.3	682.8	598.9	519.1	443.2	371.3	304.8	243.6	187.7
37.5°	1044.8	922.3	817.2	720.0	629.5	545.7	465.8	390.0	319.4	254.2	195.6
35°	1112.6	980.9	861.1	754.6	660.1	572.3	487.1	407.3	331.4	263.5	203.6
32.5°	1181.8	1036.8	907.7	791.9	690.7	596.2	507.1	423.2	344.7	274.2	210.3
30°	1248.4	1090.0	951.6	827.8	718.7	620.2	527.0	439.2	358.0	283.5	216.9
27.5°	1316.3	1145.9	995.5	861.1	745.3	641.5	544.3	453.8	370.0	292.8	223.6
25°	1381.5	1199.1	1036.8	893.0	769.3	662.8	563.0	468.5	380.6	300.8	228.9
22.5°	1441.4	1245.7	1074.0	923.6	794.6	681.4	578.9	481.8	391.3	308.8	234.2
20°	1495.9	1293.6	1112.6	954.3	818.5	700.1	592.3	493.8	400.6	315.4	239.6
17.5°	1549.2	1337.6	1147.2	982.2	838.5	716.0	605.6	503.1	408.6	320.7	243.6
15°	1594.4	1376.2	1177.9	1006.2	857.1	729.3	616.2	512.4	415.2	326.1	246.2
12.5°	1634.4	1409.4	1204.5	1026.1	871.7	741.3	626.9	520.4	421.9	330.1	250.2
10°	1666.3	1436.0	1225.8	1043.4	885.1	750.6	633.5	527.0	425.9	334.1	252.9
7.5°	1691.6	1457.3	1243.1	1055.4	894.4	758.6	640.2	531.0	429.9	336.7	256.9
5°	1710.2	1473.3	1255.0	1064.7	902.4	767.9	648.2	537.7	435.2	340.7	256.9
2.5°	1724.9	1485.3	1264.4	1072.7	907.7	767.9	648.2	537.7	435.2	340.7	256.9
0°	1724.9	1485.3	1264.4	1072.7	907.7	767.9	648.2	537.7	435.2	340.7	256.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.7	5.3	2.7	0.0
85°	14.6	9.3	5.3	0.0
82.5°	21.3	14.6	6.7	0.0
80°	27.9	18.6	9.3	0.0
77.5°	35.9	24.0	12.0	0.0
75°	42.6	27.9	14.6	0.0
72.5°	49.2	33.3	16.0	0.0
70°	55.9	37.3	18.6	0.0
67.5°	63.9	41.3	21.3	0.0
65°	70.5	46.6	22.6	0.0
62.5°	77.2	50.6	25.3	0.0
60°	83.8	54.6	26.6	0.0
57.5°	90.5	58.6	29.3	0.0
55°	97.2	63.9	31.9	0.0
52.5°	103.8	67.9	33.3	0.0
50°	110.5	71.9	34.6	0.0
47.5°	115.8	75.9	37.3	0.0
45°	122.4	79.9	38.6	0.0
42.5°	129.1	82.5	39.9	0.0
40°	134.4	86.5	41.3	0.0
37.5°	141.1	89.2	43.9	0.0
35°	146.4	93.2	45.3	0.0
32.5°	150.4	95.8	46.6	0.0
30°	155.7	98.5	47.9	0.0
27.5°	159.7	101.1	47.9	0.0
25°	163.7	103.8	49.2	0.0
22.5°	167.7	105.1	50.6	0.0
20°	171.7	107.8	51.9	0.0
17.5°	174.3	109.1	51.9	0.0
15°	177.0	110.5	54.6	0.0
12.5°	178.3	111.8	54.6	0.0
10°	181.0	114.5	54.6	0.0
7.5°	183.7	114.5	54.6	0.0
5°	183.7	114.5	54.6	0.0
2.5°	183.7	114.5	54.6	0.0
0°	183.7	114.5	54.6	0.0

(END OF REPORT)