

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: P624510

Luminaire Tested: **IFLD-M-SA4A-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

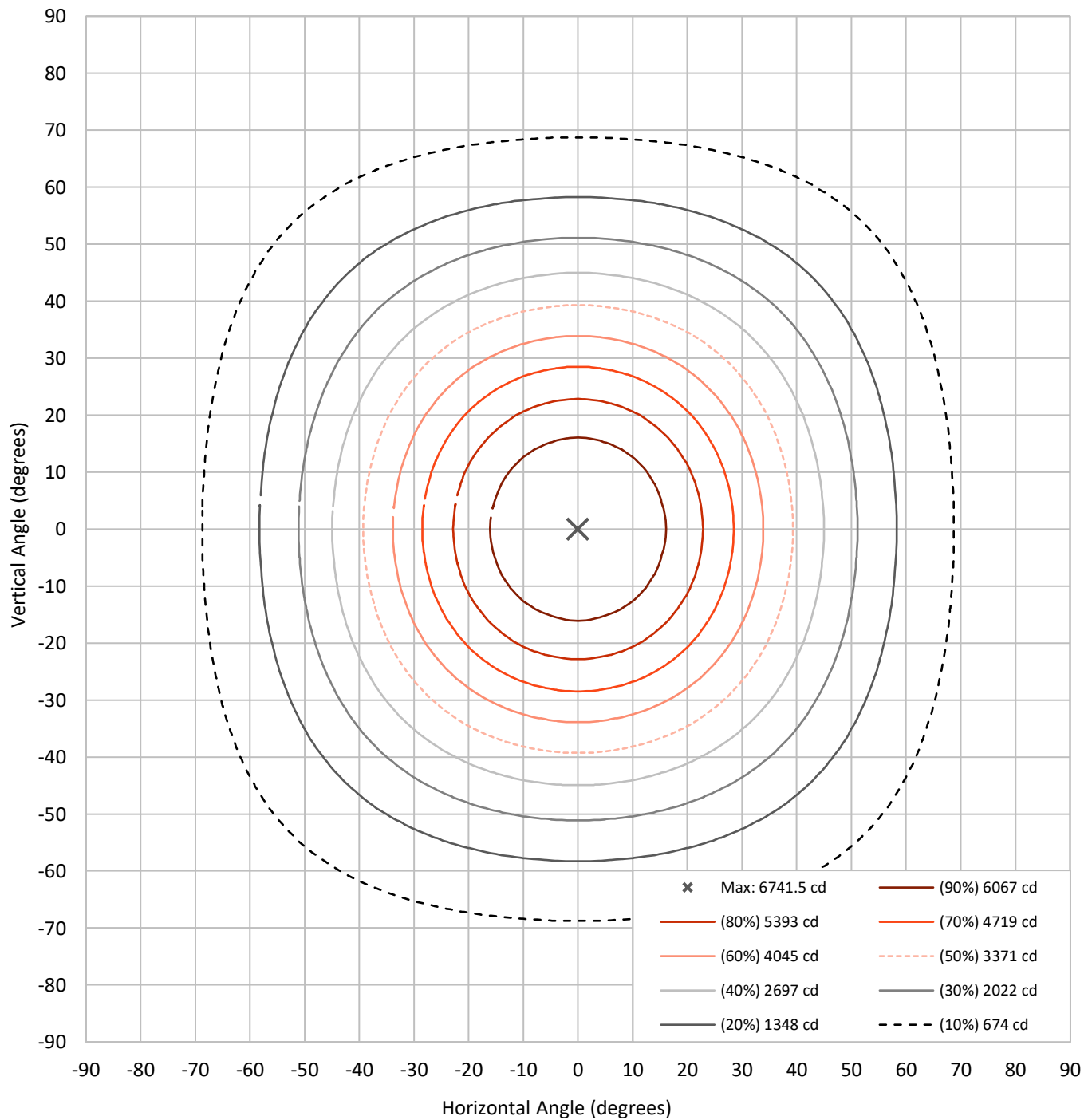
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12138.2 lumens	Max Intensity:	6741.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	94.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	5252.1 lumens	Field Lumens:	8600.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	128.6		
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		



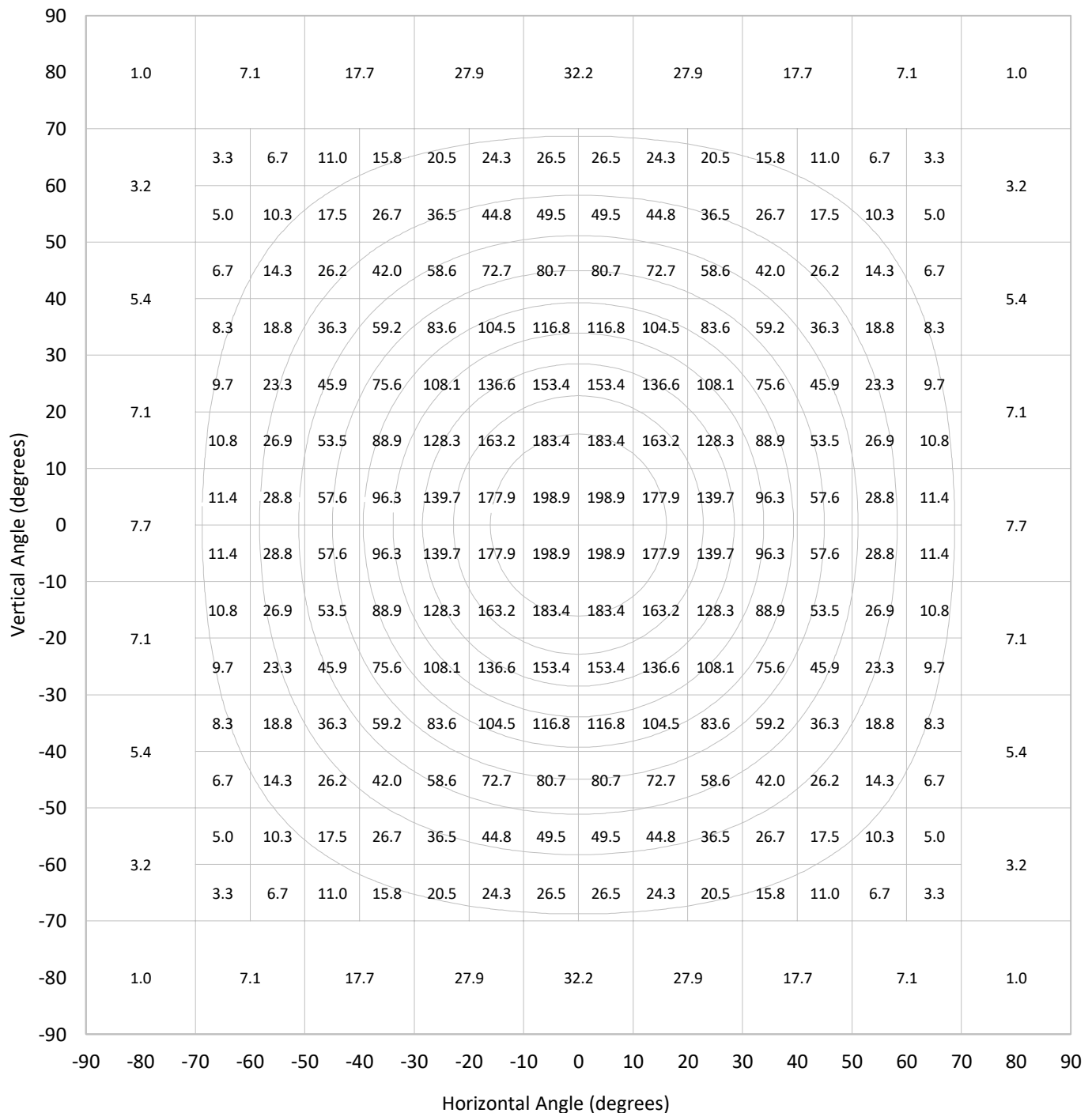
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Iso-Candela Plot



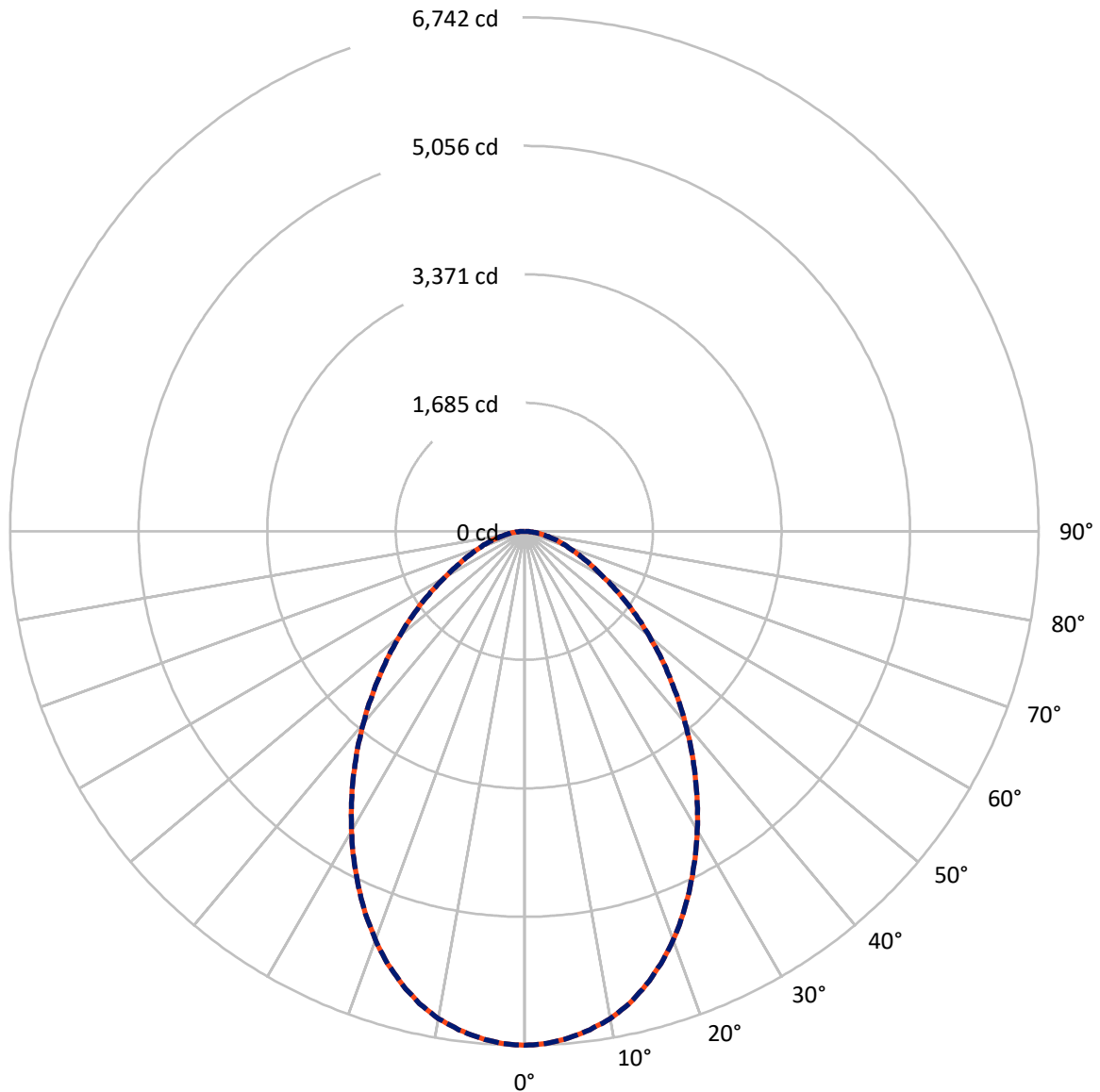
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Lumen Table



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Luminous Intensity Polar Plot

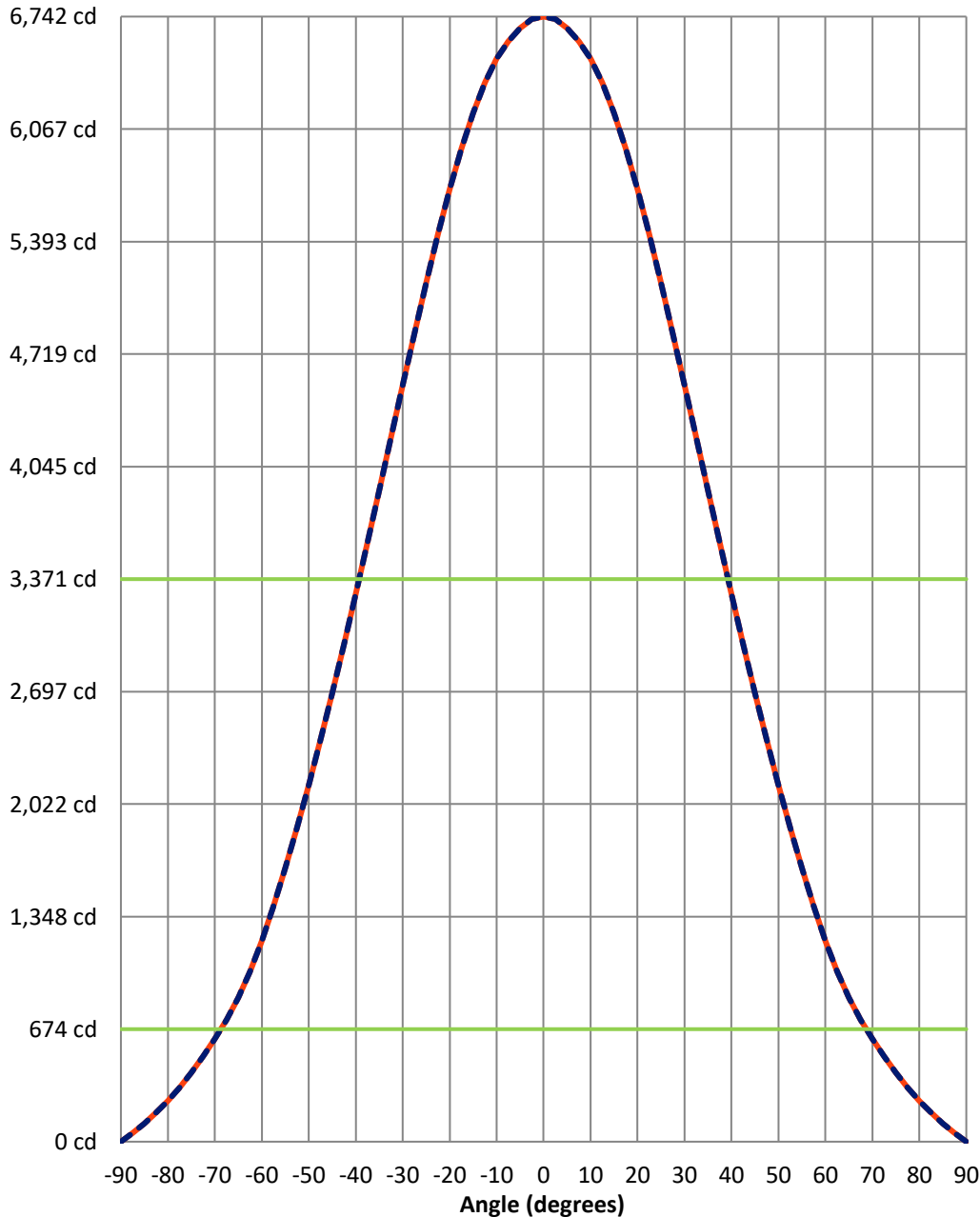


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 5252.1
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 8600.1
Efficiency: 70.9%

Spill:
Lumens: 3538.1
Efficiency: 29.1%



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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°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	49.4	49.4	48.1	46.8
85°	108.8	108.8	108.8	108.8	108.8	106.3	105.0	103.8	102.5	100.0	98.7
82.5°	174.6	174.6	174.6	174.6	172.1	169.6	168.3	165.8	163.3	159.5	155.7
80°	244.2	244.2	244.2	244.2	240.5	237.9	234.1	231.6	227.8	222.7	217.7
77.5°	324.0	324.0	324.0	320.2	317.6	313.9	310.1	305.0	299.9	293.6	286.0
75°	413.8	413.8	413.8	408.8	405.0	401.2	394.8	388.5	380.9	372.1	361.9
72.5°	511.3	511.3	511.3	504.9	501.2	494.8	487.2	478.4	469.5	458.1	445.5
70°	616.3	616.3	616.3	608.7	602.4	596.1	585.9	575.8	563.2	550.5	535.3
67.5°	730.2	730.2	730.2	721.4	713.8	704.9	693.5	680.9	665.7	648.0	630.2
65°	863.1	863.1	858.0	850.4	841.6	828.9	815.0	797.3	778.3	755.5	731.5
62.5°	1020.0	1020.0	1012.4	1003.6	992.2	975.7	956.7	934.0	907.4	878.3	849.2
60°	1202.3	1202.3	1193.4	1182.0	1165.6	1145.3	1120.0	1090.9	1058.0	1021.3	985.8
57.5°	1412.3	1412.3	1400.9	1385.8	1365.5	1340.2	1308.6	1271.9	1230.1	1184.5	1140.2
55°	1640.1	1640.1	1626.2	1608.5	1584.4	1554.1	1516.1	1473.1	1422.5	1370.6	1313.6
52.5°	1881.8	1881.8	1865.4	1845.1	1817.3	1781.9	1738.8	1688.2	1630.0	1569.3	1502.2
50°	2136.2	2136.2	2117.2	2094.5	2062.8	2021.1	1971.7	1913.5	1848.9	1778.1	1700.9
47.5°	2408.3	2408.3	2386.8	2360.2	2322.3	2274.2	2215.9	2148.9	2075.5	1995.7	1908.4
45°	2688.0	2688.0	2663.9	2633.6	2591.8	2537.4	2472.8	2408.3	2314.7	2222.3	2121.0
42.5°	2979.1	2979.1	2951.2	2917.1	2869.0	2809.5	2736.1	2652.6	2560.2	2456.4	2346.3
40°	3281.5	3281.5	3249.9	3210.7	3157.5	3089.2	3006.9	2913.3	2809.5	2694.3	2572.8
37.5°	3590.3	3590.3	3554.9	3511.8	3452.4	3376.4	3284.1	3180.3	3063.9	2936.0	2801.9
35°	3901.6	3901.6	3862.4	3815.6	3749.8	3666.2	3566.3	3451.1	3322.0	3182.8	3032.2
32.5°	4219.3	4219.3	4176.3	4123.1	4048.4	3956.1	3846.0	3720.7	3590.3	3428.3	3263.8
30°	4533.1	4533.1	4486.3	4428.1	4348.4	4247.1	4126.9	3989.0	3835.8	3670.0	3492.9
27.5°	4841.9	4829.3	4790.0	4728.0	4640.7	4533.1	4402.8	4253.5	4087.7	3905.4	3715.6
25°	5145.7	5131.7	5088.7	5020.4	4926.7	4809.0	4668.5	4509.1	4330.6	4138.3	3930.7
22.5°	5436.7	5421.5	5376.0	5302.6	5202.6	5074.8	4924.2	4753.3	4563.5	4357.2	4138.3
20°	5706.3	5689.8	5643.0	5565.8	5462.0	5326.6	5167.2	4983.7	4781.2	4563.5	4330.6
17.5°	5949.3	5932.8	5883.5	5803.7	5706.3	5555.7	5391.2	5197.5	4983.7	4753.3	4509.1
15°	6163.1	6145.4	6094.8	6015.1	5903.7	5762.0	5588.6	5391.2	5167.2	4924.2	4668.5
12.5°	6345.4	6327.7	6275.8	6196.0	6080.9	5939.1	5762.0	5555.7	5326.6	5074.8	4809.0
10°	6489.6	6471.9	6422.6	6346.6	6227.7	6080.9	5903.7	5706.3	5462.0	5202.6	4926.7
7.5°	6593.4	6577.0	6531.4	6455.5	6346.6	6196.0	6015.1	5803.7	5565.8	5302.6	5020.4
5°	6671.9	6652.9	6607.3	6531.4	6422.6	6275.8	6094.8	5883.5	5643.0	5376.0	5088.7
2.5°	6726.3	6703.5	6652.9	6577.0	6471.9	6327.7	6145.4	5932.8	5689.8	5421.5	5131.7
0°	6741.5	6726.3	6671.9	6593.4	6489.6	6345.4	6163.1	5949.3	5706.3	5436.7	5145.7

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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°	45.6	45.6	44.3	43.0	41.8	39.2	38.0	36.7	35.4	32.9	31.6
85°	96.2	93.6	91.1	88.6	84.8	82.3	78.5	75.9	72.1	68.3	64.5
82.5°	151.9	148.1	143.0	139.2	134.1	127.8	122.8	116.4	110.1	105.0	98.7
80°	212.6	206.3	200.0	193.6	186.0	178.4	170.8	163.3	154.4	145.5	136.7
77.5°	278.4	269.6	260.7	250.6	241.7	231.6	221.5	211.3	200.0	188.6	177.2
75°	351.8	340.4	327.8	315.1	303.7	289.8	275.9	262.0	246.8	232.9	217.7
72.5°	431.5	417.6	402.4	387.3	370.8	353.1	335.4	316.4	298.7	280.9	262.0
70°	517.6	501.2	482.2	463.2	442.9	421.4	399.9	377.1	354.3	331.6	308.8
67.5°	610.0	589.7	567.0	544.2	518.9	493.6	468.2	441.7	413.8	386.0	359.4
65°	708.7	683.4	656.8	627.7	598.6	569.5	539.1	507.5	475.8	442.9	413.8
62.5°	818.8	787.2	753.0	717.6	684.7	649.2	616.3	577.1	539.1	502.4	465.7
60°	946.6	904.9	863.1	818.8	777.0	731.5	691.0	648.0	604.9	563.2	520.1
57.5°	1089.6	1036.5	985.8	932.7	877.0	826.4	774.5	722.6	674.5	625.2	578.3
55°	1251.6	1187.1	1123.8	1058.0	993.4	930.2	864.4	806.1	746.7	691.0	636.6
52.5°	1428.8	1355.4	1276.9	1202.3	1120.0	1041.5	968.1	894.7	825.1	758.1	696.0
50°	1618.6	1532.6	1442.7	1351.6	1257.9	1165.6	1077.0	990.9	909.9	831.5	758.1
47.5°	1816.0	1718.6	1616.1	1512.3	1412.3	1299.7	1193.4	1096.0	998.5	909.9	825.1
45°	2018.5	1908.4	1795.8	1678.1	1560.4	1438.9	1321.2	1202.3	1096.0	990.9	894.7
42.5°	2227.3	2103.3	1978.0	1847.7	1717.3	1584.4	1451.6	1321.2	1193.4	1077.0	968.1
40°	2442.5	2305.8	2162.8	2021.1	1881.8	1730.0	1584.4	1438.9	1299.7	1165.6	1041.5
37.5°	2657.6	2508.3	2353.9	2194.4	2035.0	1881.8	1717.3	1560.4	1412.3	1257.9	1120.0
35°	2874.0	2709.5	2542.5	2369.1	2194.4	2021.1	1847.7	1678.1	1512.3	1351.6	1202.3
32.5°	3091.7	2912.0	2727.2	2542.5	2353.9	2162.8	1978.0	1795.8	1616.1	1442.7	1276.9
30°	3305.6	3110.7	2912.0	2709.5	2508.3	2305.8	2103.3	1908.4	1718.6	1532.6	1355.4
27.5°	3514.4	3305.6	3091.7	2874.0	2657.6	2442.5	2227.3	2018.5	1816.0	1618.6	1428.8
25°	3715.6	3492.9	3263.8	3032.2	2801.9	2572.8	2346.3	2121.0	1908.4	1700.9	1502.2
22.5°	3905.4	3670.0	3428.3	3182.8	2936.0	2694.3	2456.4	2222.3	1995.7	1778.1	1569.3
20°	4087.7	3835.8	3590.3	3322.0	3063.9	2809.5	2560.2	2314.7	2075.5	1848.9	1630.0
17.5°	4253.5	3989.0	3720.7	3451.1	3180.3	2913.3	2652.6	2408.3	2148.9	1913.5	1688.2
15°	4402.8	4126.9	3846.0	3566.3	3284.1	3006.9	2736.1	2472.8	2215.9	1971.7	1738.8
12.5°	4533.1	4247.1	3956.1	3666.2	3376.4	3089.2	2809.5	2537.4	2274.2	2021.1	1781.9
10°	4640.7	4348.4	4048.4	3749.8	3452.4	3157.5	2869.0	2591.8	2322.3	2062.8	1817.3
7.5°	4728.0	4428.1	4123.1	3815.6	3511.8	3210.7	2917.1	2633.6	2360.2	2094.5	1845.1
5°	4790.0	4486.3	4176.3	3862.4	3554.9	3249.9	2951.2	2663.9	2386.8	2117.2	1865.4
2.5°	4829.3	4533.1	4219.3	3901.6	3590.3	3281.5	2979.1	2688.0	2408.3	2136.2	1881.8
0°	4841.9	4533.1	4219.3	3901.6	3590.3	3281.5	2979.1	2688.0	2408.3	2136.2	1881.8

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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°	30.4	27.8	25.3	24.0	21.5	20.2	17.7	15.2	13.9	11.4	8.9
85°	60.7	55.7	51.9	48.1	44.3	39.2	35.4	31.6	26.6	22.8	17.7
82.5°	92.4	86.1	79.7	73.4	67.1	60.7	53.2	46.8	40.5	34.2	26.6
80°	127.8	117.7	108.8	100.0	91.1	82.3	72.1	63.3	53.2	44.3	35.4
77.5°	164.5	153.1	140.5	127.8	115.2	103.8	91.1	79.7	68.3	55.7	44.3
75°	203.8	188.6	174.6	158.2	143.0	126.6	111.4	96.2	82.3	68.3	53.2
72.5°	244.2	225.3	206.3	188.6	169.6	150.6	132.9	113.9	96.2	79.7	63.3
70°	286.0	263.2	240.5	218.9	197.4	174.6	154.4	132.9	111.4	91.1	72.1
67.5°	330.3	303.7	277.2	249.3	225.3	200.0	174.6	150.6	126.6	103.8	82.3
65°	378.4	346.8	313.9	284.7	253.1	225.3	197.4	169.6	143.0	115.2	91.1
62.5°	427.7	391.0	354.3	317.6	284.7	249.3	218.9	188.6	158.2	127.8	100.0
60°	478.4	436.6	394.8	354.3	313.9	277.2	240.5	206.3	174.6	140.5	108.8
57.5°	530.3	483.4	436.6	391.0	346.8	303.7	263.2	225.3	188.6	153.1	117.7
55°	583.4	530.3	478.4	427.7	378.4	330.3	286.0	244.2	203.8	164.5	127.8
52.5°	636.6	578.3	520.1	465.7	413.8	359.4	308.8	262.0	217.7	177.2	136.7
50°	691.0	625.2	563.2	502.4	442.9	386.0	331.6	280.9	232.9	188.6	145.5
47.5°	746.7	674.5	604.9	539.1	475.8	413.8	354.3	298.7	246.8	200.0	154.4
45°	806.1	722.6	648.0	577.1	507.5	441.7	377.1	316.4	262.0	211.3	163.3
42.5°	864.4	774.5	691.0	616.3	539.1	468.2	399.9	335.4	275.9	221.5	170.8
40°	930.2	826.4	731.5	649.2	569.5	493.6	421.4	353.1	289.8	231.6	178.4
37.5°	993.4	877.0	777.0	684.7	598.6	518.9	442.9	370.8	303.7	241.7	186.0
35°	1058.0	932.7	818.8	717.6	627.7	544.2	463.2	387.3	315.1	250.6	193.6
32.5°	1123.8	985.8	863.1	753.0	656.8	567.0	482.2	402.4	327.8	260.7	200.0
30°	1187.1	1036.5	904.9	787.2	683.4	589.7	501.2	417.6	340.4	269.6	206.3
27.5°	1251.6	1089.6	946.6	818.8	708.7	610.0	517.6	431.5	351.8	278.4	212.6
25°	1313.6	1140.2	985.8	849.2	731.5	630.2	535.3	445.5	361.9	286.0	217.7
22.5°	1370.6	1184.5	1021.3	878.3	755.5	648.0	550.5	458.1	372.1	293.6	222.7
20°	1422.5	1230.1	1058.0	907.4	778.3	665.7	563.2	469.5	380.9	299.9	227.8
17.5°	1473.1	1271.9	1090.9	934.0	797.3	680.9	575.8	478.4	388.5	305.0	231.6
15°	1516.1	1308.6	1120.0	956.7	815.0	693.5	585.9	487.2	394.8	310.1	234.1
12.5°	1554.1	1340.2	1145.3	975.7	828.9	704.9	596.1	494.8	401.2	313.9	237.9
10°	1584.4	1365.5	1165.6	992.2	841.6	713.8	602.4	501.2	405.0	317.6	240.5
7.5°	1608.5	1385.8	1182.0	1003.6	850.4	721.4	608.7	504.9	408.8	320.2	244.2
5°	1626.2	1400.9	1193.4	1012.4	858.0	730.2	616.3	511.3	413.8	324.0	244.2
2.5°	1640.1	1412.3	1202.3	1020.0	863.1	730.2	616.3	511.3	413.8	324.0	244.2
0°	1640.1	1412.3	1202.3	1020.0	863.1	730.2	616.3	511.3	413.8	324.0	244.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.3	5.1	2.5	0.0
85°	13.9	8.9	5.1	0.0
82.5°	20.2	13.9	6.3	0.0
80°	26.6	17.7	8.9	0.0
77.5°	34.2	22.8	11.4	0.0
75°	40.5	26.6	13.9	0.0
72.5°	46.8	31.6	15.2	0.0
70°	53.2	35.4	17.7	0.0
67.5°	60.7	39.2	20.2	0.0
65°	67.1	44.3	21.5	0.0
62.5°	73.4	48.1	24.0	0.0
60°	79.7	51.9	25.3	0.0
57.5°	86.1	55.7	27.8	0.0
55°	92.4	60.7	30.4	0.0
52.5°	98.7	64.5	31.6	0.0
50°	105.0	68.3	32.9	0.0
47.5°	110.1	72.1	35.4	0.0
45°	116.4	75.9	36.7	0.0
42.5°	122.8	78.5	38.0	0.0
40°	127.8	82.3	39.2	0.0
37.5°	134.1	84.8	41.8	0.0
35°	139.2	88.6	43.0	0.0
32.5°	143.0	91.1	44.3	0.0
30°	148.1	93.6	45.6	0.0
27.5°	151.9	96.2	45.6	0.0
25°	155.7	98.7	46.8	0.0
22.5°	159.5	100.0	48.1	0.0
20°	163.3	102.5	49.4	0.0
17.5°	165.8	103.8	49.4	0.0
15°	168.3	105.0	51.9	0.0
12.5°	169.6	106.3	51.9	0.0
10°	172.1	108.8	51.9	0.0
7.5°	174.6	108.8	51.9	0.0
5°	174.6	108.8	51.9	0.0
2.5°	174.6	108.8	51.9	0.0
0°	174.6	108.8	51.9	0.0

(END OF REPORT)