

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: P624049

Luminaire Tested: **IFLD-S-SA3B-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624049
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

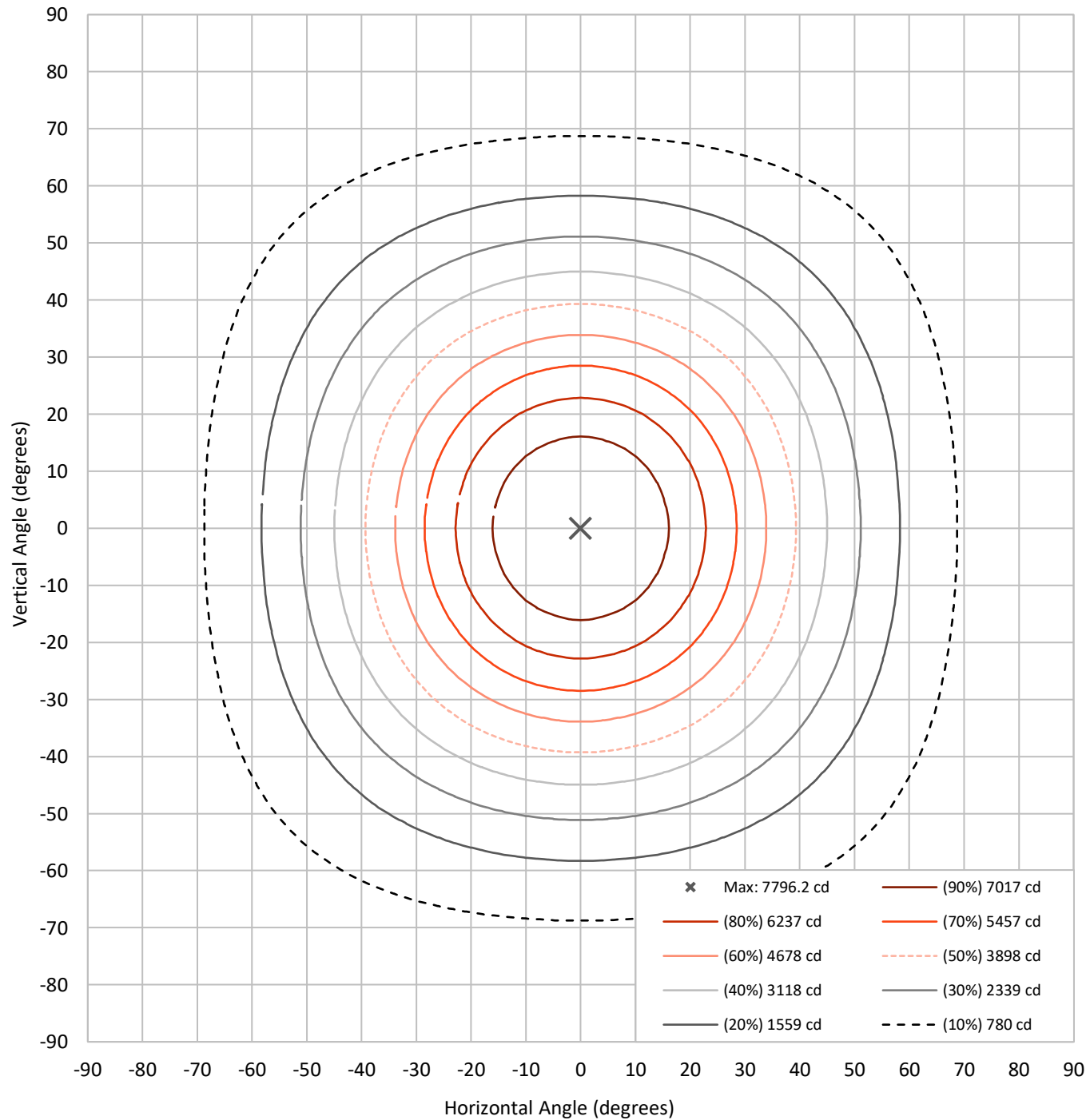
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14037.2 lumens	Max Intensity:	7796.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6073.7 lumens	Field Lumens:	9945.5 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		





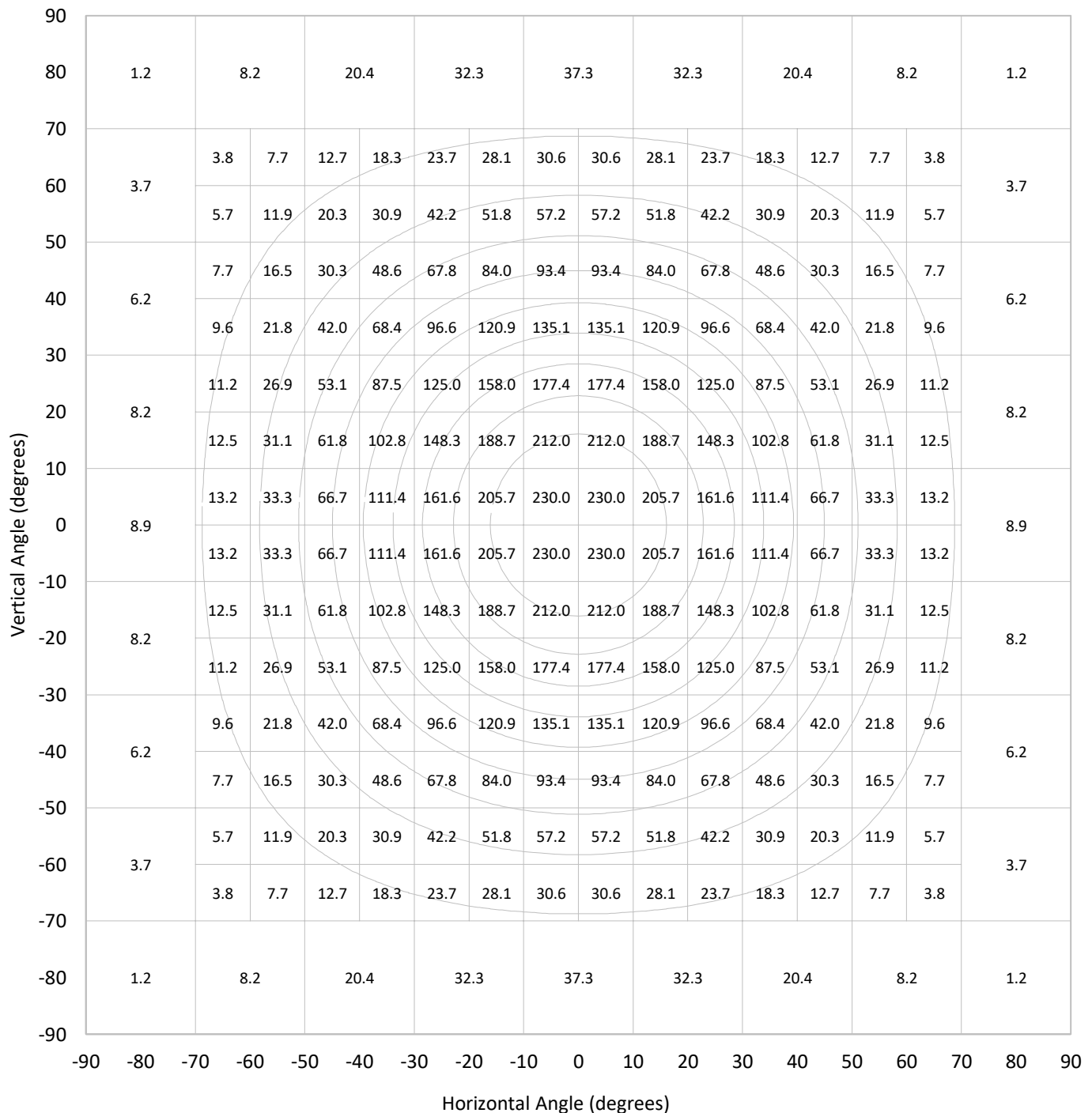
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Iso-Candela Plot



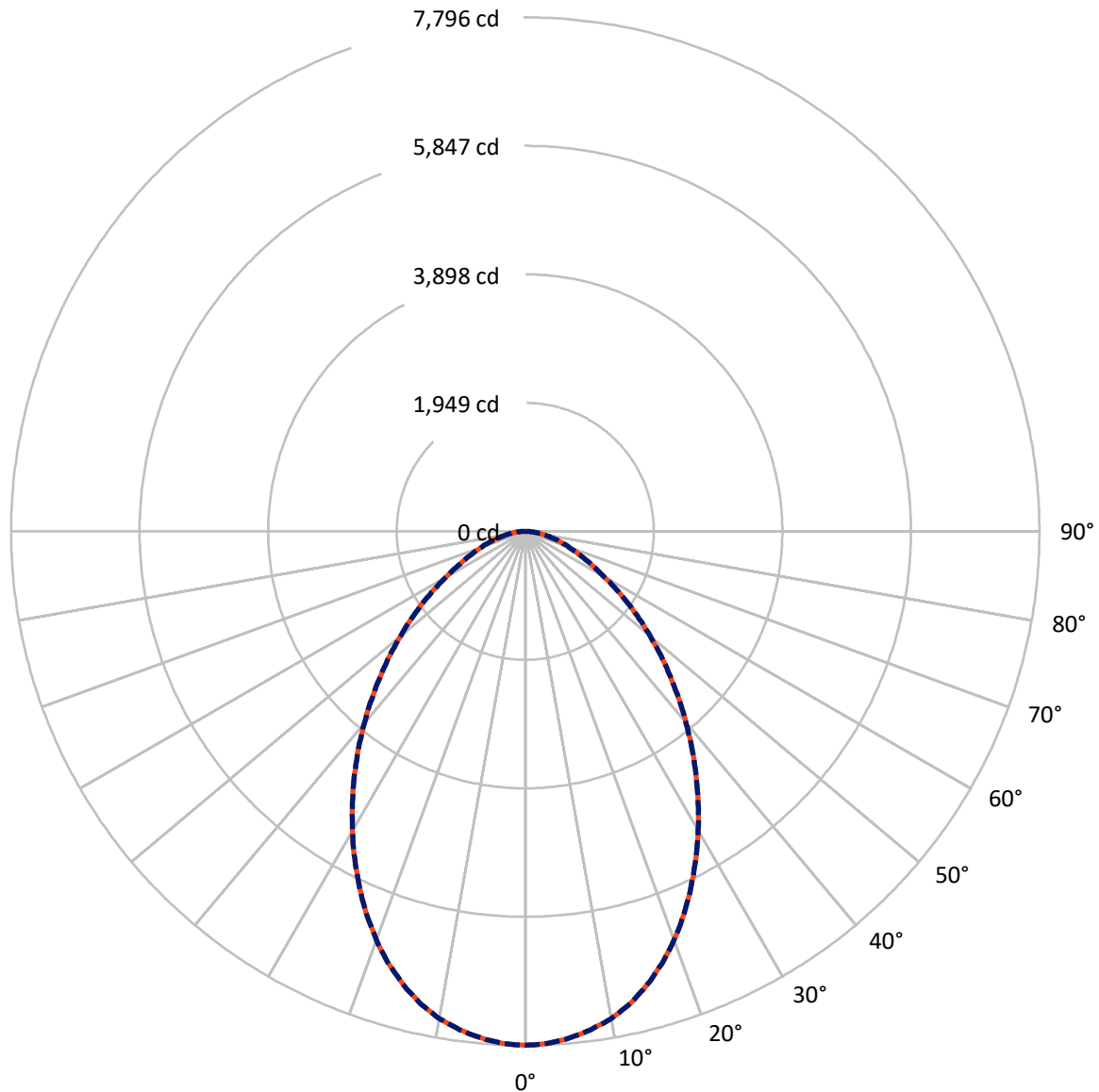
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Lumen Table



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Luminous Intensity Polar Plot

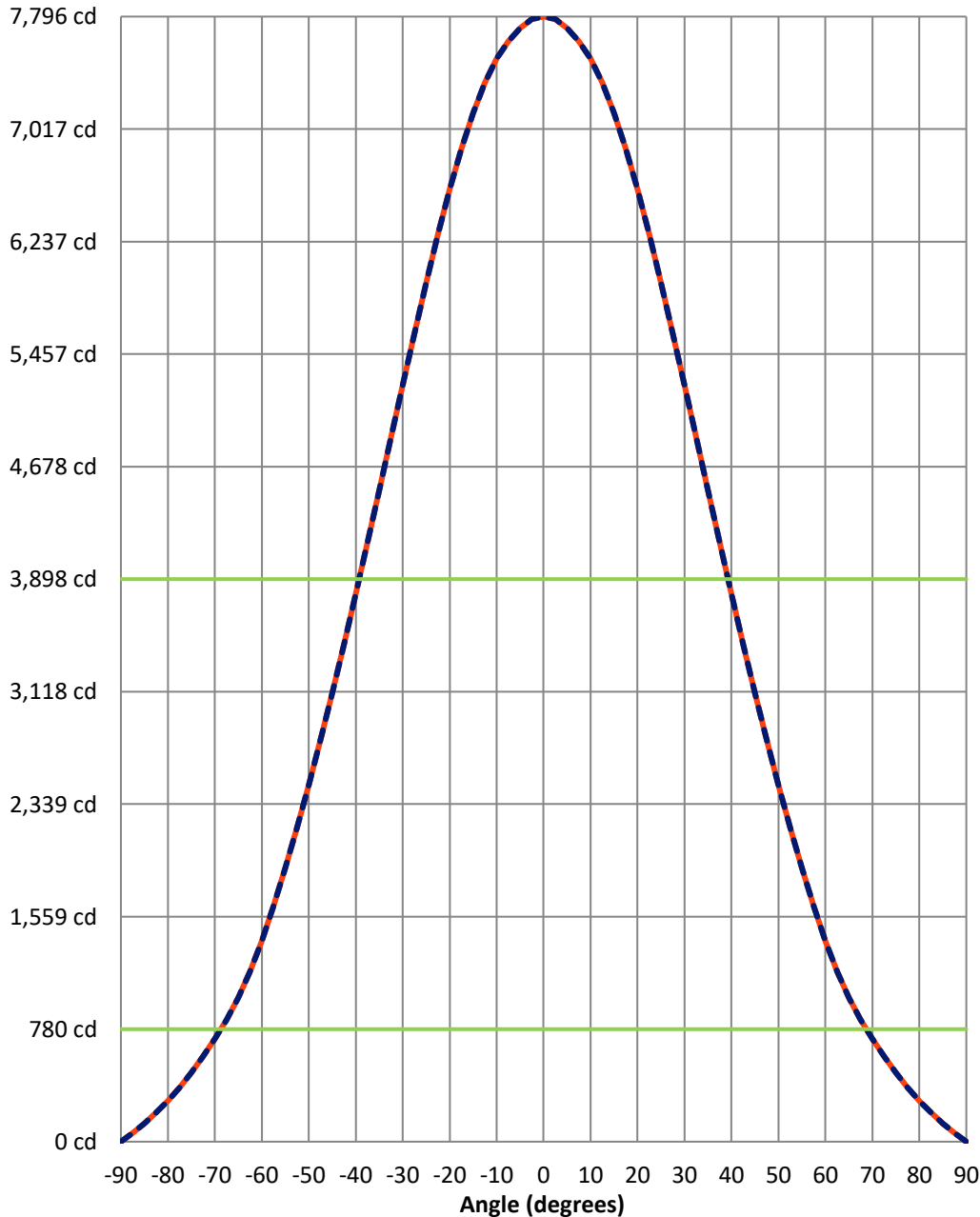


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 6073.7
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 9945.5
Efficiency: 70.9%

Spill:
Lumens: 4091.6
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°	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.1	57.1	55.6	54.2
85°	125.9	125.9	125.9	125.9	125.9	122.9	121.5	120.0	118.5	115.6	114.2
82.5°	202.0	202.0	202.0	202.0	199.0	196.1	194.6	191.7	188.8	184.4	180.0
80°	282.5	282.5	282.5	282.5	278.1	275.1	270.8	267.8	263.4	257.6	251.7
77.5°	374.7	374.7	374.7	370.3	367.3	363.0	358.6	352.7	346.9	339.5	330.8
75°	478.6	478.6	478.6	472.7	468.3	463.9	456.6	449.3	440.5	430.3	418.6
72.5°	591.3	591.3	591.3	583.9	579.6	572.2	563.5	553.2	543.0	529.8	515.2
70°	712.7	712.7	712.7	704.0	696.6	689.3	677.6	665.9	651.3	636.6	619.1
67.5°	844.5	844.5	844.5	834.2	825.4	815.2	802.0	787.4	769.8	749.3	728.8
65°	998.1	998.1	992.3	983.5	973.2	958.6	942.5	922.0	900.1	873.7	845.9
62.5°	1179.6	1179.6	1170.8	1160.6	1147.4	1128.4	1106.4	1080.1	1049.3	1015.7	982.0
60°	1390.3	1390.3	1380.1	1366.9	1347.9	1324.5	1295.2	1261.6	1223.5	1181.1	1140.1
57.5°	1633.3	1633.3	1620.1	1602.6	1579.1	1549.9	1513.3	1470.8	1422.5	1369.9	1318.6
55°	1896.7	1896.7	1880.6	1860.1	1832.3	1797.2	1753.3	1703.5	1645.0	1585.0	1519.1
52.5°	2176.3	2176.3	2157.2	2133.8	2101.6	2060.6	2010.9	1952.3	1885.0	1814.8	1737.2
50°	2470.4	2470.4	2448.5	2422.1	2385.5	2337.2	2280.2	2212.8	2138.2	2056.2	1967.0
47.5°	2785.1	2785.1	2760.2	2729.5	2685.6	2629.9	2562.6	2485.1	2400.2	2308.0	2207.0
45°	3108.5	3108.5	3080.7	3045.6	2997.3	2934.4	2859.7	2785.1	2676.8	2569.9	2452.9
42.5°	3445.1	3445.1	3412.9	3373.4	3317.8	3249.0	3164.1	3067.5	2960.7	2840.7	2713.4
40°	3794.9	3794.9	3758.3	3712.9	3651.5	3572.4	3477.3	3369.0	3249.0	3115.8	2975.3
37.5°	4152.0	4152.0	4111.0	4061.3	3992.5	3904.7	3797.8	3677.8	3543.2	3395.4	3240.2
35°	4512.0	4512.0	4466.7	4412.5	4336.4	4239.8	4124.2	3991.0	3841.7	3680.7	3506.6
32.5°	4879.4	4879.4	4829.6	4768.1	4681.8	4575.0	4447.6	4302.7	4152.0	3964.7	3774.4
30°	5242.3	5242.3	5188.2	5120.9	5028.6	4911.6	4772.5	4613.0	4435.9	4244.2	4039.3
27.5°	5599.4	5584.8	5539.4	5467.7	5366.7	5242.3	5091.6	4918.9	4727.2	4516.4	4296.9
25°	5950.7	5934.6	5884.8	5805.8	5697.5	5561.4	5398.9	5214.5	5008.2	4785.7	4545.7
22.5°	6287.3	6269.7	6217.0	6132.1	6016.5	5868.7	5694.6	5497.0	5277.4	5038.9	4785.7
20°	6599.0	6580.0	6525.8	6436.6	6316.5	6159.9	5975.5	5763.3	5529.2	5277.4	5008.2
17.5°	6880.0	6861.0	6803.9	6711.7	6599.0	6424.8	6234.6	6010.7	5763.3	5497.0	5214.5
15°	7127.3	7106.8	7048.3	6956.1	6827.3	6663.4	6462.9	6234.6	5975.5	5694.6	5398.9
12.5°	7338.1	7317.6	7257.6	7165.4	7032.2	6868.3	6663.4	6424.8	6159.9	5868.7	5561.4
10°	7504.9	7484.4	7427.4	7339.5	7202.0	7032.2	6827.3	6599.0	6316.5	6016.5	5697.5
7.5°	7624.9	7605.9	7553.2	7465.4	7339.5	7165.4	6956.1	6711.7	6436.6	6132.1	5805.8
5°	7715.7	7693.7	7641.0	7553.2	7427.4	7257.6	7048.3	6803.9	6525.8	6217.0	5884.8
2.5°	7778.6	7752.3	7693.7	7605.9	7484.4	7317.6	7106.8	6861.0	6580.0	6269.7	5934.6
0°	7796.2	7778.6	7715.7	7624.9	7504.9	7338.1	7127.3	6880.0	6599.0	6287.3	5950.7

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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°	52.7	52.7	51.2	49.8	48.3	45.4	43.9	42.4	41.0	38.1	36.6
85°	111.2	108.3	105.4	102.4	98.1	95.1	90.7	87.8	83.4	79.0	74.6
82.5°	175.6	171.2	165.4	161.0	155.1	147.8	142.0	134.6	127.3	121.5	114.2
80°	245.9	238.6	231.2	223.9	215.1	206.4	197.6	188.8	178.5	168.3	158.1
77.5°	322.0	311.7	301.5	289.8	279.5	267.8	256.1	244.4	231.2	218.1	204.9
75°	406.9	393.7	379.1	364.4	351.2	335.1	319.0	302.9	285.4	269.3	251.7
72.5°	499.1	483.0	465.4	447.8	428.8	408.3	387.8	365.9	345.4	324.9	302.9
70°	598.6	579.6	557.6	535.6	512.2	487.4	462.5	436.1	409.8	383.4	357.1
67.5°	705.4	682.0	655.7	629.3	600.0	570.8	541.5	510.8	478.6	446.4	415.6
65°	819.6	790.3	759.6	725.9	692.2	658.6	623.5	586.9	550.3	512.2	478.6
62.5°	946.9	910.3	870.8	829.8	791.8	750.8	712.7	667.4	623.5	581.0	538.6
60°	1094.7	1046.4	998.1	946.9	898.6	845.9	799.1	749.3	699.6	651.3	601.5
57.5°	1260.1	1198.6	1140.1	1078.6	1014.2	955.7	895.7	835.7	780.1	723.0	668.8
55°	1447.4	1372.8	1299.6	1223.5	1148.9	1075.7	999.6	932.3	863.5	799.1	736.1
52.5°	1652.3	1567.4	1476.7	1390.3	1295.2	1204.5	1119.6	1034.7	954.2	876.6	804.9
50°	1871.8	1772.3	1668.4	1563.0	1454.7	1347.9	1245.5	1145.9	1052.3	961.5	876.6
47.5°	2100.1	1987.5	1868.9	1748.9	1633.3	1503.0	1380.1	1267.4	1154.7	1052.3	954.2
45°	2334.3	2207.0	2076.7	1940.6	1804.5	1664.0	1527.9	1390.3	1267.4	1145.9	1034.7
42.5°	2575.8	2432.4	2287.5	2136.7	1986.0	1832.3	1678.7	1527.9	1380.1	1245.5	1119.6
40°	2824.6	2666.5	2501.2	2337.2	2176.3	2000.6	1832.3	1664.0	1503.0	1347.9	1204.5
37.5°	3073.4	2900.7	2722.1	2537.7	2353.3	2176.3	1986.0	1804.5	1633.3	1454.7	1295.2
35°	3323.7	3133.4	2940.2	2739.7	2537.7	2337.2	2136.7	1940.6	1748.9	1563.0	1390.3
32.5°	3575.4	3367.6	3153.9	2940.2	2722.1	2501.2	2287.5	2076.7	1868.9	1668.4	1476.7
30°	3822.7	3597.3	3367.6	3133.4	2900.7	2666.5	2432.4	2207.0	1987.5	1772.3	1567.4
27.5°	4064.2	3822.7	3575.4	3323.7	3073.4	2824.6	2575.8	2334.3	2100.1	1871.8	1652.3
25°	4296.9	4039.3	3774.4	3506.6	3240.2	2975.3	2713.4	2452.9	2207.0	1967.0	1737.2
22.5°	4516.4	4244.2	3964.7	3680.7	3395.4	3115.8	2840.7	2569.9	2308.0	2056.2	1814.8
20°	4727.2	4435.9	4152.0	3841.7	3543.2	3249.0	2960.7	2676.8	2400.2	2138.2	1885.0
17.5°	4918.9	4613.0	4302.7	3991.0	3677.8	3369.0	3067.5	2785.1	2485.1	2212.8	1952.3
15°	5091.6	4772.5	4447.6	4124.2	3797.8	3477.3	3164.1	2859.7	2562.6	2280.2	2010.9
12.5°	5242.3	4911.6	4575.0	4239.8	3904.7	3572.4	3249.0	2934.4	2629.9	2337.2	2060.6
10°	5366.7	5028.6	4681.8	4336.4	3992.5	3651.5	3317.8	2997.3	2685.6	2385.5	2101.6
7.5°	5467.7	5120.9	4768.1	4412.5	4061.3	3712.9	3373.4	3045.6	2729.5	2422.1	2133.8
5°	5539.4	5188.2	4829.6	4466.7	4111.0	3758.3	3412.9	3080.7	2760.2	2448.5	2157.2
2.5°	5584.8	5242.3	4879.4	4512.0	4152.0	3794.9	3445.1	3108.5	2785.1	2470.4	2176.3
0°	5599.4	5242.3	4879.4	4512.0	4152.0	3794.9	3445.1	3108.5	2785.1	2470.4	2176.3

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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°	35.1	32.2	29.3	27.8	24.9	23.4	20.5	17.6	16.1	13.2	10.2
85°	70.2	64.4	60.0	55.6	51.2	45.4	41.0	36.6	30.7	26.3	20.5
82.5°	106.8	99.5	92.2	84.9	77.6	70.2	61.5	54.2	46.8	39.5	30.7
80°	147.8	136.1	125.9	115.6	105.4	95.1	83.4	73.2	61.5	51.2	41.0
77.5°	190.3	177.1	162.5	147.8	133.2	120.0	105.4	92.2	79.0	64.4	51.2
75°	235.6	218.1	202.0	182.9	165.4	146.4	128.8	111.2	95.1	79.0	61.5
72.5°	282.5	260.5	238.6	218.1	196.1	174.2	153.7	131.7	111.2	92.2	73.2
70°	330.8	304.4	278.1	253.2	228.3	202.0	178.5	153.7	128.8	105.4	83.4
67.5°	382.0	351.2	320.5	288.3	260.5	231.2	202.0	174.2	146.4	120.0	95.1
65°	437.6	401.0	363.0	329.3	292.7	260.5	228.3	196.1	165.4	133.2	105.4
62.5°	494.7	452.2	409.8	367.3	329.3	288.3	253.2	218.1	182.9	147.8	115.6
60°	553.2	504.9	456.6	409.8	363.0	320.5	278.1	238.6	202.0	162.5	125.9
57.5°	613.2	559.1	504.9	452.2	401.0	351.2	304.4	260.5	218.1	177.1	136.1
55°	674.7	613.2	553.2	494.7	437.6	382.0	330.8	282.5	235.6	190.3	147.8
52.5°	736.1	668.8	601.5	538.6	478.6	415.6	357.1	302.9	251.7	204.9	158.1
50°	799.1	723.0	651.3	581.0	512.2	446.4	383.4	324.9	269.3	218.1	168.3
47.5°	863.5	780.1	699.6	623.5	550.3	478.6	409.8	345.4	285.4	231.2	178.5
45°	932.3	835.7	749.3	667.4	586.9	510.8	436.1	365.9	302.9	244.4	188.8
42.5°	999.6	895.7	799.1	712.7	623.5	541.5	462.5	387.8	319.0	256.1	197.6
40°	1075.7	955.7	845.9	750.8	658.6	570.8	487.4	408.3	335.1	267.8	206.4
37.5°	1148.9	1014.2	898.6	791.8	692.2	600.0	512.2	428.8	351.2	279.5	215.1
35°	1223.5	1078.6	946.9	829.8	725.9	629.3	535.6	447.8	364.4	289.8	223.9
32.5°	1299.6	1140.1	998.1	870.8	759.6	655.7	557.6	465.4	379.1	301.5	231.2
30°	1372.8	1198.6	1046.4	910.3	790.3	682.0	579.6	483.0	393.7	311.7	238.6
27.5°	1447.4	1260.1	1094.7	946.9	819.6	705.4	598.6	499.1	406.9	322.0	245.9
25°	1519.1	1318.6	1140.1	982.0	845.9	728.8	619.1	515.2	418.6	330.8	251.7
22.5°	1585.0	1369.9	1181.1	1015.7	873.7	749.3	636.6	529.8	430.3	339.5	257.6
20°	1645.0	1422.5	1223.5	1049.3	900.1	769.8	651.3	543.0	440.5	346.9	263.4
17.5°	1703.5	1470.8	1261.6	1080.1	922.0	787.4	665.9	553.2	449.3	352.7	267.8
15°	1753.3	1513.3	1295.2	1106.4	942.5	802.0	677.6	563.5	456.6	358.6	270.8
12.5°	1797.2	1549.9	1324.5	1128.4	958.6	815.2	689.3	572.2	463.9	363.0	275.1
10°	1832.3	1579.1	1347.9	1147.4	973.2	825.4	696.6	579.6	468.3	367.3	278.1
7.5°	1860.1	1602.6	1366.9	1160.6	983.5	834.2	704.0	583.9	472.7	370.3	282.5
5°	1880.6	1620.1	1380.1	1170.8	992.3	844.5	712.7	591.3	478.6	374.7	282.5
2.5°	1896.7	1633.3	1390.3	1179.6	998.1	844.5	712.7	591.3	478.6	374.7	282.5
0°	1896.7	1633.3	1390.3	1179.6	998.1	844.5	712.7	591.3	478.6	374.7	282.5

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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°	16.1	10.2	5.9	0.0
82.5°	23.4	16.1	7.3	0.0
80°	30.7	20.5	10.2	0.0
77.5°	39.5	26.3	13.2	0.0
75°	46.8	30.7	16.1	0.0
72.5°	54.2	36.6	17.6	0.0
70°	61.5	41.0	20.5	0.0
67.5°	70.2	45.4	23.4	0.0
65°	77.6	51.2	24.9	0.0
62.5°	84.9	55.6	27.8	0.0
60°	92.2	60.0	29.3	0.0
57.5°	99.5	64.4	32.2	0.0
55°	106.8	70.2	35.1	0.0
52.5°	114.2	74.6	36.6	0.0
50°	121.5	79.0	38.1	0.0
47.5°	127.3	83.4	41.0	0.0
45°	134.6	87.8	42.4	0.0
42.5°	142.0	90.7	43.9	0.0
40°	147.8	95.1	45.4	0.0
37.5°	155.1	98.1	48.3	0.0
35°	161.0	102.4	49.8	0.0
32.5°	165.4	105.4	51.2	0.0
30°	171.2	108.3	52.7	0.0
27.5°	175.6	111.2	52.7	0.0
25°	180.0	114.2	54.2	0.0
22.5°	184.4	115.6	55.6	0.0
20°	188.8	118.5	57.1	0.0
17.5°	191.7	120.0	57.1	0.0
15°	194.6	121.5	60.0	0.0
12.5°	196.1	122.9	60.0	0.0
10°	199.0	125.9	60.0	0.0
7.5°	202.0	125.9	60.0	0.0
5°	202.0	125.9	60.0	0.0
2.5°	202.0	125.9	60.0	0.0
0°	202.0	125.9	60.0	0.0

(END OF REPORT)