

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: P624563

Luminaire Tested: **IFLD-S-SA6A-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624563
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18605.7 lumens	Max Intensity:	10333.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' 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:	8050.5 lumens	Field Lumens:	13182.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

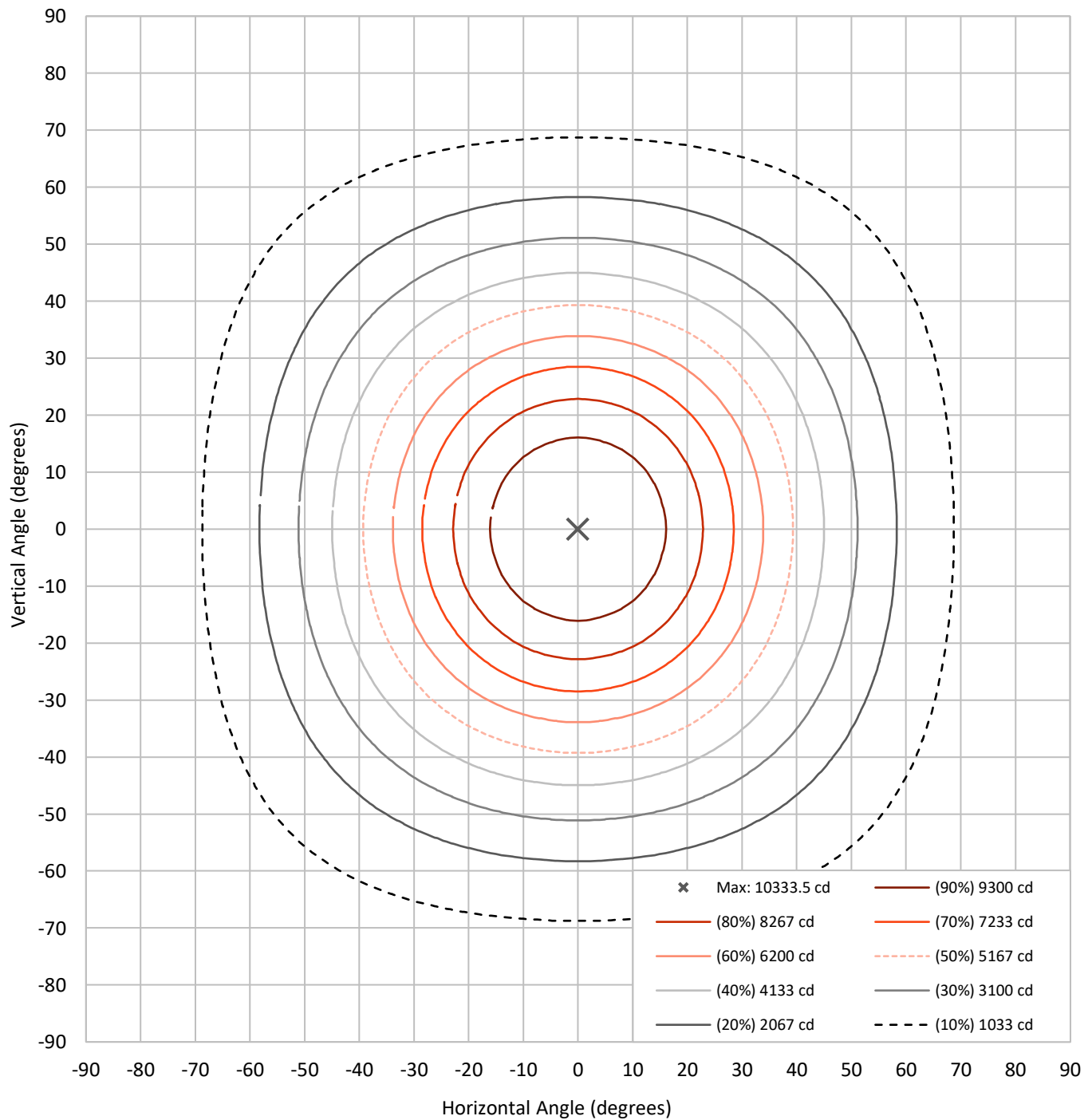
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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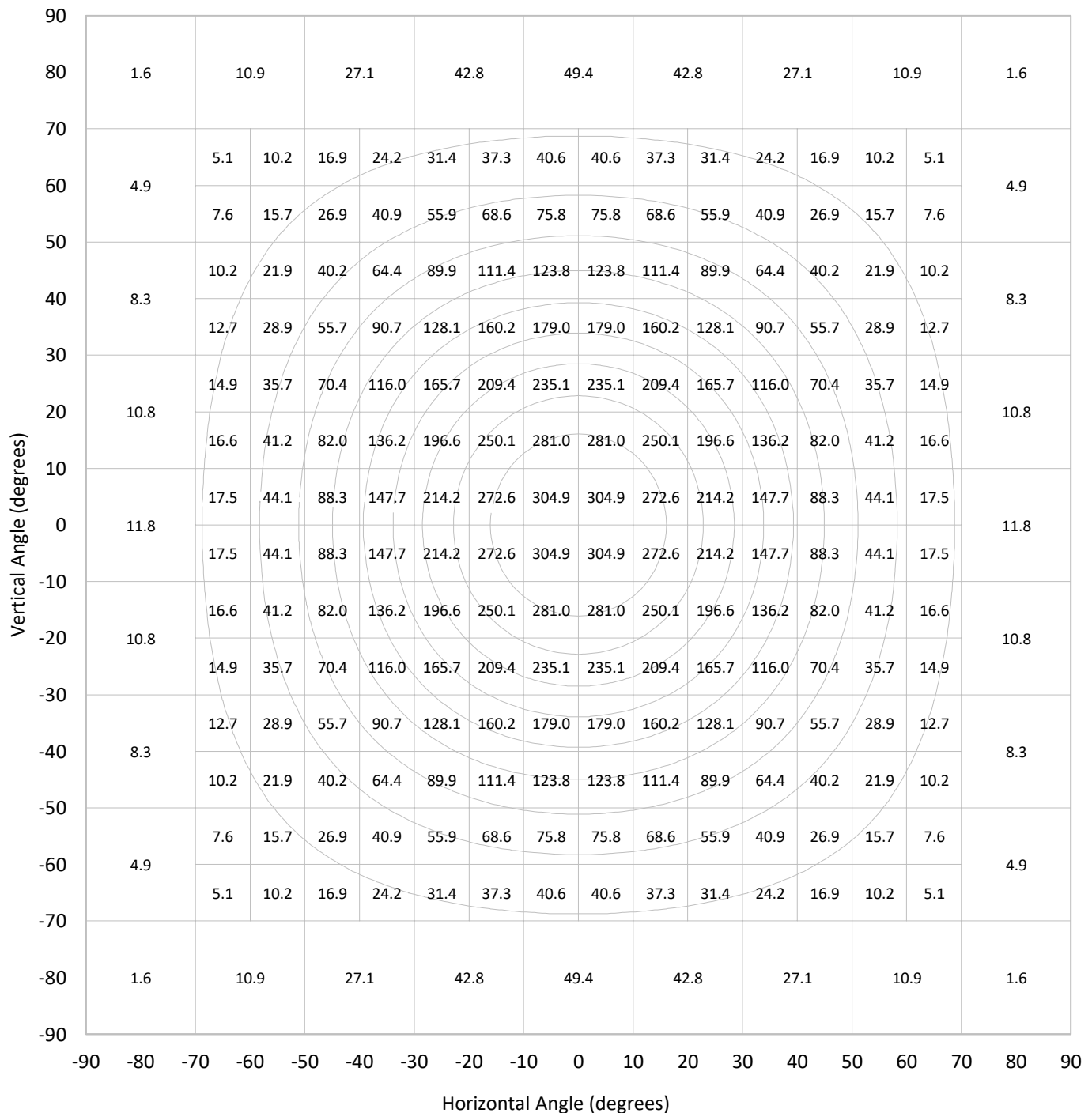
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Iso-Candela Plot



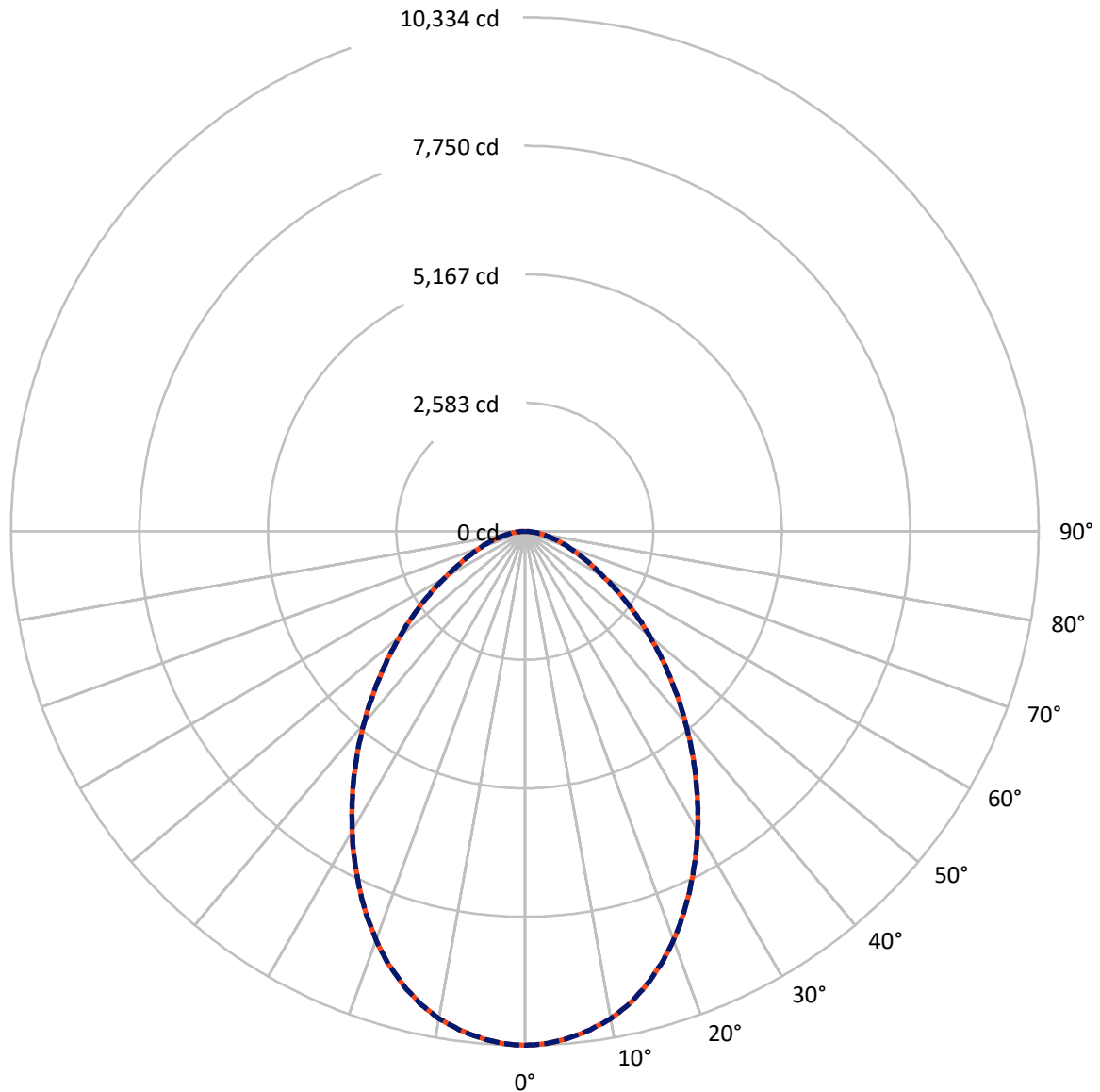
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Lumen Table



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Luminous Intensity Polar Plot

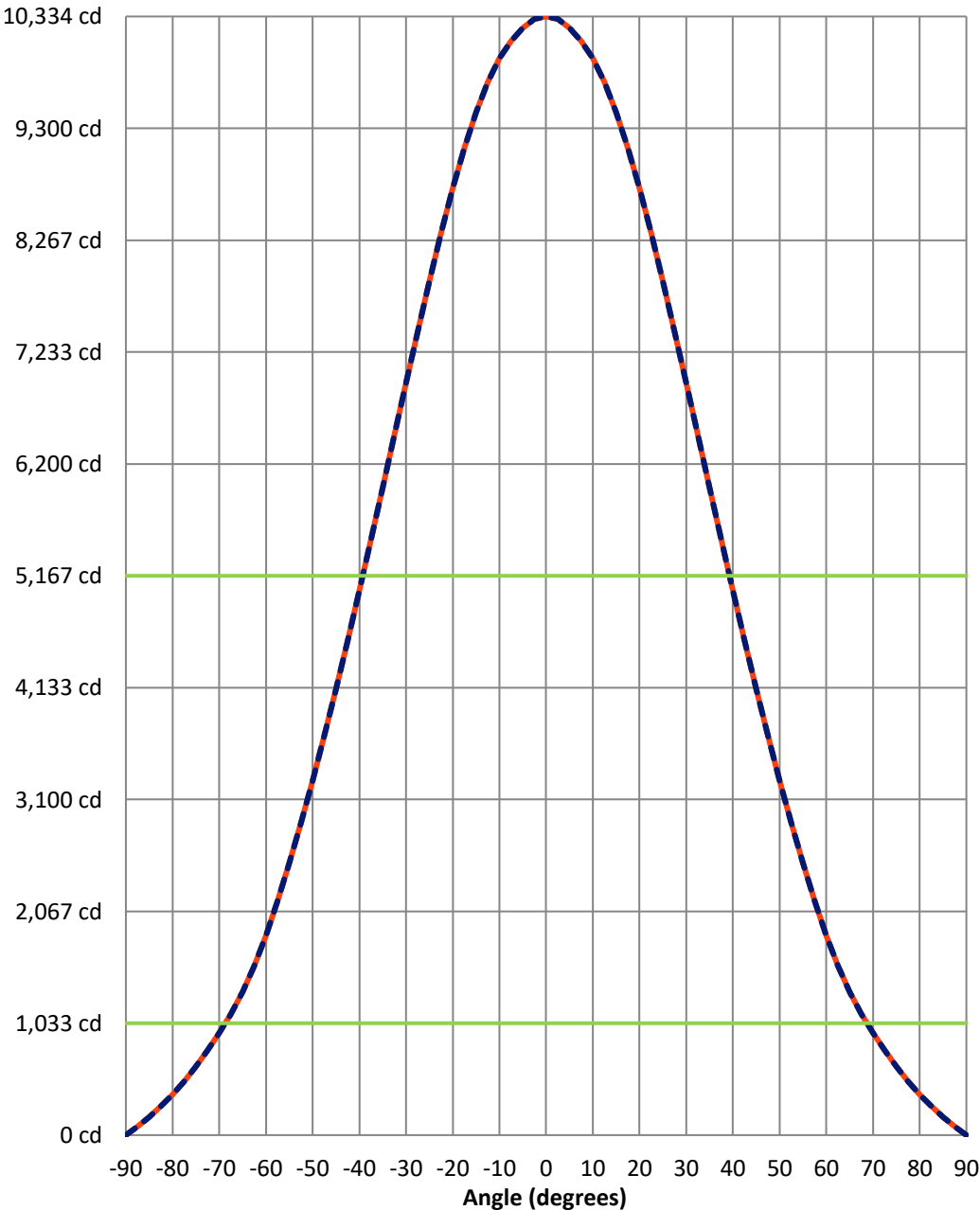


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 8050.5
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 13182.4
Efficiency: 70.9%

Spill:
Lumens: 5423.3
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°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	75.7	75.7	73.7	71.8
85°	166.8	166.8	166.8	166.8	166.8	162.9	161.0	159.1	157.1	153.2	151.3
82.5°	267.7	267.7	267.7	267.7	263.8	259.9	258.0	254.1	250.2	244.4	238.6
80°	374.4	374.4	374.4	374.4	368.6	364.7	358.9	355.0	349.2	341.4	333.7
77.5°	496.6	496.6	496.6	490.8	486.9	481.1	475.3	467.5	459.7	450.0	438.4
75°	634.3	634.3	634.3	626.6	620.7	614.9	605.2	595.5	583.9	570.3	554.8
72.5°	783.7	783.7	783.7	774.0	768.2	758.5	746.8	733.3	719.7	702.2	682.8
70°	944.7	944.7	944.7	933.1	923.4	913.7	898.1	882.6	863.2	843.8	820.6
67.5°	1119.3	1119.3	1119.3	1105.7	1094.1	1080.5	1063.0	1043.6	1020.4	993.2	966.0
65°	1323.0	1323.0	1315.2	1303.6	1290.0	1270.6	1249.3	1222.1	1193.0	1158.1	1121.2
62.5°	1563.5	1563.5	1551.9	1538.3	1520.8	1495.6	1466.5	1431.6	1390.9	1346.2	1301.6
60°	1842.8	1842.8	1829.3	1811.8	1786.6	1755.6	1716.8	1672.1	1621.7	1565.5	1511.1
57.5°	2164.9	2164.9	2147.4	2124.1	2093.1	2054.3	2005.8	1949.5	1885.5	1815.7	1747.8
55°	2514.0	2514.0	2492.7	2465.5	2428.7	2382.1	2323.9	2258.0	2180.4	2100.8	2013.6
52.5°	2884.5	2884.5	2859.3	2828.3	2785.6	2731.3	2665.3	2587.7	2498.5	2405.4	2302.6
50°	3274.4	3274.4	3245.4	3210.4	3161.9	3097.9	3022.3	2933.0	2834.1	2725.5	2607.1
47.5°	3691.5	3691.5	3658.5	3617.8	3559.6	3485.9	3396.7	3293.8	3181.3	3059.1	2925.3
45°	4120.2	4120.2	4083.4	4036.8	3972.8	3889.4	3790.4	3691.5	3548.0	3406.4	3251.2
42.5°	4566.4	4566.4	4523.7	4471.3	4397.6	4306.4	4193.9	4065.9	3924.3	3765.2	3596.5
40°	5030.0	5030.0	4981.5	4921.4	4839.9	4735.1	4609.1	4465.5	4306.4	4129.9	3943.7
37.5°	5503.3	5503.3	5449.0	5383.1	5291.9	5175.5	5033.9	4874.8	4696.4	4500.4	4294.8
35°	5980.5	5980.5	5920.4	5848.6	5747.7	5619.7	5466.5	5289.9	5092.1	4878.7	4647.9
32.5°	6467.4	6467.4	6401.5	6320.0	6205.5	6063.9	5895.2	5703.1	5503.3	5255.0	5002.8
30°	6948.5	6948.5	6876.7	6787.5	6665.3	6510.1	6325.8	6114.4	5879.7	5625.5	5354.0
27.5°	7421.8	7402.4	7342.3	7247.2	7113.4	6948.5	6748.7	6519.8	6265.7	5986.3	5695.4
25°	7887.4	7866.0	7800.1	7695.3	7551.8	7371.4	7156.1	6911.6	6638.1	6343.3	6025.1
22.5°	8333.5	8310.3	8240.4	8127.9	7974.7	7778.8	7547.9	7286.0	6995.1	6678.9	6343.3
20°	8746.7	8721.5	8649.7	8531.4	8372.3	8164.8	7920.4	7639.1	7328.7	6995.1	6638.1
17.5°	9119.2	9094.0	9018.3	8896.1	8746.7	8515.9	8263.7	7966.9	7639.1	7286.0	6911.6
15°	9447.0	9419.9	9342.3	9220.1	9049.3	8832.1	8566.3	8263.7	7920.4	7547.9	7156.1
12.5°	9726.4	9699.2	9619.7	9497.5	9320.9	9103.7	8832.1	8515.9	8164.8	7778.8	7371.4
10°	9947.5	9920.3	9844.7	9728.3	9545.9	9320.9	9049.3	8746.7	8372.3	7974.7	7551.8
7.5°	10106.6	10081.3	10011.5	9895.1	9728.3	9497.5	9220.1	8896.1	8531.4	8127.9	7695.3
5°	10226.8	10197.7	10127.9	10011.5	9844.7	9619.7	9342.3	9018.3	8649.7	8240.4	7800.1
2.5°	10310.2	10275.3	10197.7	10081.3	9920.3	9699.2	9419.9	9094.0	8721.5	8310.3	7866.0
0°	10333.5	10310.2	10226.8	10106.6	9947.5	9726.4	9447.0	9119.2	8746.7	8333.5	7887.4

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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°	69.8	69.8	67.9	66.0	64.0	60.1	58.2	56.3	54.3	50.4	48.5
85°	147.4	143.5	139.7	135.8	130.0	126.1	120.3	116.4	110.6	104.8	98.9
82.5°	232.8	227.0	219.2	213.4	205.6	195.9	188.2	178.5	168.8	161.0	151.3
80°	325.9	316.2	306.5	296.8	285.2	273.5	261.9	250.2	236.7	223.1	209.5
77.5°	426.8	413.2	399.6	384.1	370.5	355.0	339.5	324.0	306.5	289.0	271.6
75°	539.3	521.8	502.4	483.0	465.6	444.2	422.9	401.5	378.3	356.9	333.7
72.5°	661.5	640.1	616.9	593.6	568.4	541.2	514.1	485.0	457.8	430.6	401.5
70°	793.4	768.2	739.1	710.0	678.9	646.0	613.0	578.1	543.2	508.2	473.3
67.5°	935.0	904.0	869.0	834.1	795.3	756.5	717.7	677.0	634.3	591.7	550.9
65°	1086.3	1047.5	1006.8	962.2	917.5	872.9	826.4	777.9	729.4	678.9	634.3
62.5°	1255.1	1206.6	1154.2	1099.9	1049.5	995.1	944.7	884.6	826.4	770.1	713.9
60°	1451.0	1387.0	1323.0	1255.1	1191.1	1121.2	1059.2	993.2	927.2	863.2	797.3
57.5°	1670.2	1588.7	1511.1	1429.7	1344.3	1266.7	1187.2	1107.6	1033.9	958.3	886.5
55°	1918.5	1819.6	1722.6	1621.7	1522.8	1425.8	1324.9	1235.7	1144.5	1059.2	975.7
52.5°	2190.1	2077.6	1957.3	1842.8	1716.8	1596.5	1484.0	1371.5	1264.8	1162.0	1066.9
50°	2481.1	2349.1	2211.4	2071.7	1928.2	1786.6	1650.8	1518.9	1394.7	1274.5	1162.0
47.5°	2783.7	2634.3	2477.2	2318.1	2164.9	1992.2	1829.3	1679.9	1530.5	1394.7	1264.8
45°	3094.0	2925.3	2752.6	2572.2	2391.8	2205.6	2025.2	1842.8	1679.9	1518.9	1371.5
42.5°	3414.1	3224.0	3032.0	2832.2	2632.4	2428.7	2225.0	2025.2	1829.3	1650.8	1484.0
40°	3743.9	3534.4	3315.2	3097.9	2884.5	2651.8	2428.7	2205.6	1992.2	1786.6	1596.5
37.5°	4073.7	3844.8	3608.1	3363.7	3119.3	2884.5	2632.4	2391.8	2164.9	1928.2	1716.8
35°	4405.4	4153.2	3897.1	3631.4	3363.7	3097.9	2832.2	2572.2	2318.1	2071.7	1842.8
32.5°	4739.0	4463.6	4180.4	3897.1	3608.1	3315.2	3032.0	2752.6	2477.2	2211.4	1957.3
30°	5066.9	4768.1	4463.6	4153.2	3844.8	3534.4	3224.0	2925.3	2634.3	2349.1	2077.6
27.5°	5386.9	5066.9	4739.0	4405.4	4073.7	3743.9	3414.1	3094.0	2783.7	2481.1	2190.1
25°	5695.4	5354.0	5002.8	4647.9	4294.8	3943.7	3596.5	3251.2	2925.3	2607.1	2302.6
22.5°	5986.3	5625.5	5255.0	4878.7	4500.4	4129.9	3765.2	3406.4	3059.1	2725.5	2405.4
20°	6265.7	5879.7	5503.3	5092.1	4696.4	4306.4	3924.3	3548.0	3181.3	2834.1	2498.5
17.5°	6519.8	6114.4	5703.1	5289.9	4874.8	4465.5	4065.9	3691.5	3293.8	2933.0	2587.7
15°	6748.7	6325.8	5895.2	5466.5	5033.9	4609.1	4193.9	3790.4	3396.7	3022.3	2665.3
12.5°	6948.5	6510.1	6063.9	5619.7	5175.5	4735.1	4306.4	3889.4	3485.9	3097.9	2731.3
10°	7113.4	6665.3	6205.5	5747.7	5291.9	4839.9	4397.6	3972.8	3559.6	3161.9	2785.6
7.5°	7247.2	6787.5	6320.0	5848.6	5383.1	4921.4	4471.3	4036.8	3617.8	3210.4	2828.3
5°	7342.3	6876.7	6401.5	5920.4	5449.0	4981.5	4523.7	4083.4	3658.5	3245.4	2859.3
2.5°	7402.4	6948.5	6467.4	5980.5	5503.3	5030.0	4566.4	4120.2	3691.5	3274.4	2884.5
0°	7421.8	6948.5	6467.4	5980.5	5503.3	5030.0	4566.4	4120.2	3691.5	3274.4	2884.5

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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°	46.6	42.7	38.8	36.9	33.0	31.0	27.2	23.3	21.3	17.5	13.6
85°	93.1	85.4	79.5	73.7	67.9	60.1	54.3	48.5	40.7	34.9	27.2
82.5°	141.6	131.9	122.2	112.5	102.8	93.1	81.5	71.8	62.1	52.4	40.7
80°	195.9	180.4	166.8	153.2	139.7	126.1	110.6	97.0	81.5	67.9	54.3
77.5°	252.2	234.7	215.3	195.9	176.5	159.1	139.7	122.2	104.8	85.4	67.9
75°	312.3	289.0	267.7	242.5	219.2	194.0	170.7	147.4	126.1	104.8	81.5
72.5°	374.4	345.3	316.2	289.0	259.9	230.8	203.7	174.6	147.4	122.2	97.0
70°	438.4	403.5	368.6	335.6	302.6	267.7	236.7	203.7	170.7	139.7	110.6
67.5°	506.3	465.6	424.8	382.1	345.3	306.5	267.7	230.8	194.0	159.1	126.1
65°	580.0	531.5	481.1	436.5	388.0	345.3	302.6	259.9	219.2	176.5	139.7
62.5°	655.7	599.4	543.2	486.9	436.5	382.1	335.6	289.0	242.5	195.9	153.2
60°	733.3	669.2	605.2	543.2	481.1	424.8	368.6	316.2	267.7	215.3	166.8
57.5°	812.8	741.0	669.2	599.4	531.5	465.6	403.5	345.3	289.0	234.7	180.4
55°	894.3	812.8	733.3	655.7	580.0	506.3	438.4	374.4	312.3	252.2	195.9
52.5°	975.7	886.5	797.3	713.9	634.3	550.9	473.3	401.5	333.7	271.6	209.5
50°	1059.2	958.3	863.2	770.1	678.9	591.7	508.2	430.6	356.9	289.0	223.1
47.5°	1144.5	1033.9	927.2	826.4	729.4	634.3	543.2	457.8	378.3	306.5	236.7
45°	1235.7	1107.6	993.2	884.6	777.9	677.0	578.1	485.0	401.5	324.0	250.2
42.5°	1324.9	1187.2	1059.2	944.7	826.4	717.7	613.0	514.1	422.9	339.5	261.9
40°	1425.8	1266.7	1121.2	995.1	872.9	756.5	646.0	541.2	444.2	355.0	273.5
37.5°	1522.8	1344.3	1191.1	1049.5	917.5	795.3	678.9	568.4	465.6	370.5	285.2
35°	1621.7	1429.7	1255.1	1099.9	962.2	834.1	710.0	593.6	483.0	384.1	296.8
32.5°	1722.6	1511.1	1323.0	1154.2	1006.8	869.0	739.1	616.9	502.4	399.6	306.5
30°	1819.6	1588.7	1387.0	1206.6	1047.5	904.0	768.2	640.1	521.8	413.2	316.2
27.5°	1918.5	1670.2	1451.0	1255.1	1086.3	935.0	793.4	661.5	539.3	426.8	325.9
25°	2013.6	1747.8	1511.1	1301.6	1121.2	966.0	820.6	682.8	554.8	438.4	333.7
22.5°	2100.8	1815.7	1565.5	1346.2	1158.1	993.2	843.8	702.2	570.3	450.0	341.4
20°	2180.4	1885.5	1621.7	1390.9	1193.0	1020.4	863.2	719.7	583.9	459.7	349.2
17.5°	2258.0	1949.5	1672.1	1431.6	1222.1	1043.6	882.6	733.3	595.5	467.5	355.0
15°	2323.9	2005.8	1716.8	1466.5	1249.3	1063.0	898.1	746.8	605.2	475.3	358.9
12.5°	2382.1	2054.3	1755.6	1495.6	1270.6	1080.5	913.7	758.5	614.9	481.1	364.7
10°	2428.7	2093.1	1786.6	1520.8	1290.0	1094.1	923.4	768.2	620.7	486.9	368.6
7.5°	2465.5	2124.1	1811.8	1538.3	1303.6	1105.7	933.1	774.0	626.6	490.8	374.4
5°	2492.7	2147.4	1829.3	1551.9	1315.2	1119.3	944.7	783.7	634.3	496.6	374.4
2.5°	2514.0	2164.9	1842.8	1563.5	1323.0	1119.3	944.7	783.7	634.3	496.6	374.4
0°	2514.0	2164.9	1842.8	1563.5	1323.0	1119.3	944.7	783.7	634.3	496.6	374.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.7	7.8	3.9	0.0
85°	21.3	13.6	7.8	0.0
82.5°	31.0	21.3	9.7	0.0
80°	40.7	27.2	13.6	0.0
77.5°	52.4	34.9	17.5	0.0
75°	62.1	40.7	21.3	0.0
72.5°	71.8	48.5	23.3	0.0
70°	81.5	54.3	27.2	0.0
67.5°	93.1	60.1	31.0	0.0
65°	102.8	67.9	33.0	0.0
62.5°	112.5	73.7	36.9	0.0
60°	122.2	79.5	38.8	0.0
57.5°	131.9	85.4	42.7	0.0
55°	141.6	93.1	46.6	0.0
52.5°	151.3	98.9	48.5	0.0
50°	161.0	104.8	50.4	0.0
47.5°	168.8	110.6	54.3	0.0
45°	178.5	116.4	56.3	0.0
42.5°	188.2	120.3	58.2	0.0
40°	195.9	126.1	60.1	0.0
37.5°	205.6	130.0	64.0	0.0
35°	213.4	135.8	66.0	0.0
32.5°	219.2	139.7	67.9	0.0
30°	227.0	143.5	69.8	0.0
27.5°	232.8	147.4	69.8	0.0
25°	238.6	151.3	71.8	0.0
22.5°	244.4	153.2	73.7	0.0
20°	250.2	157.1	75.7	0.0
17.5°	254.1	159.1	75.7	0.0
15°	258.0	161.0	79.5	0.0
12.5°	259.9	162.9	79.5	0.0
10°	263.8	166.8	79.5	0.0
7.5°	267.7	166.8	79.5	0.0
5°	267.7	166.8	79.5	0.0
2.5°	267.7	166.8	79.5	0.0
0°	267.7	166.8	79.5	0.0

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