

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: P623918

Luminaire Tested: **IFLD-L-SA7A-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623918
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32050.7 lumens	Max Intensity:	17800.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	13868 lumens	Field Lumens:	22708.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

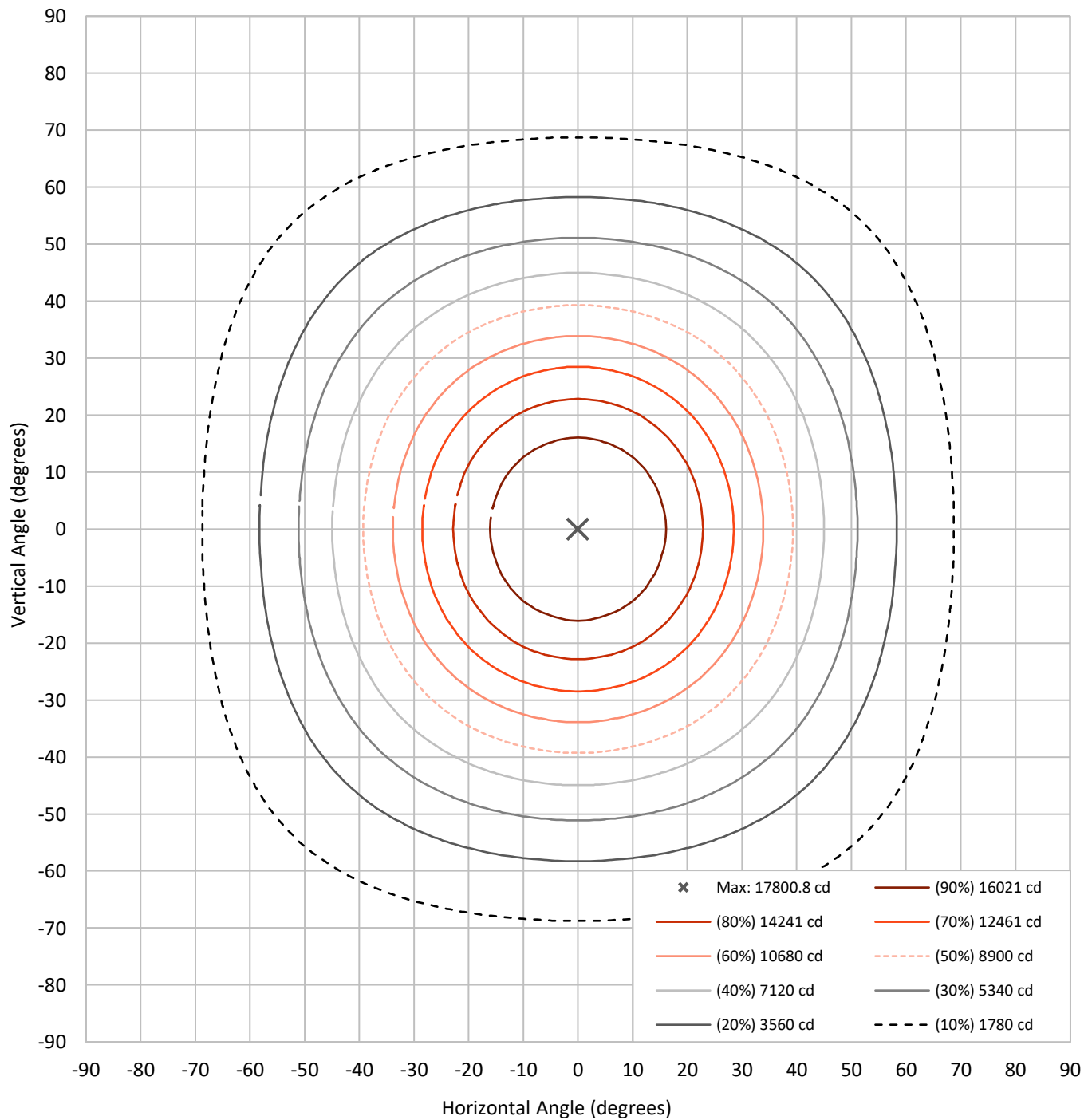
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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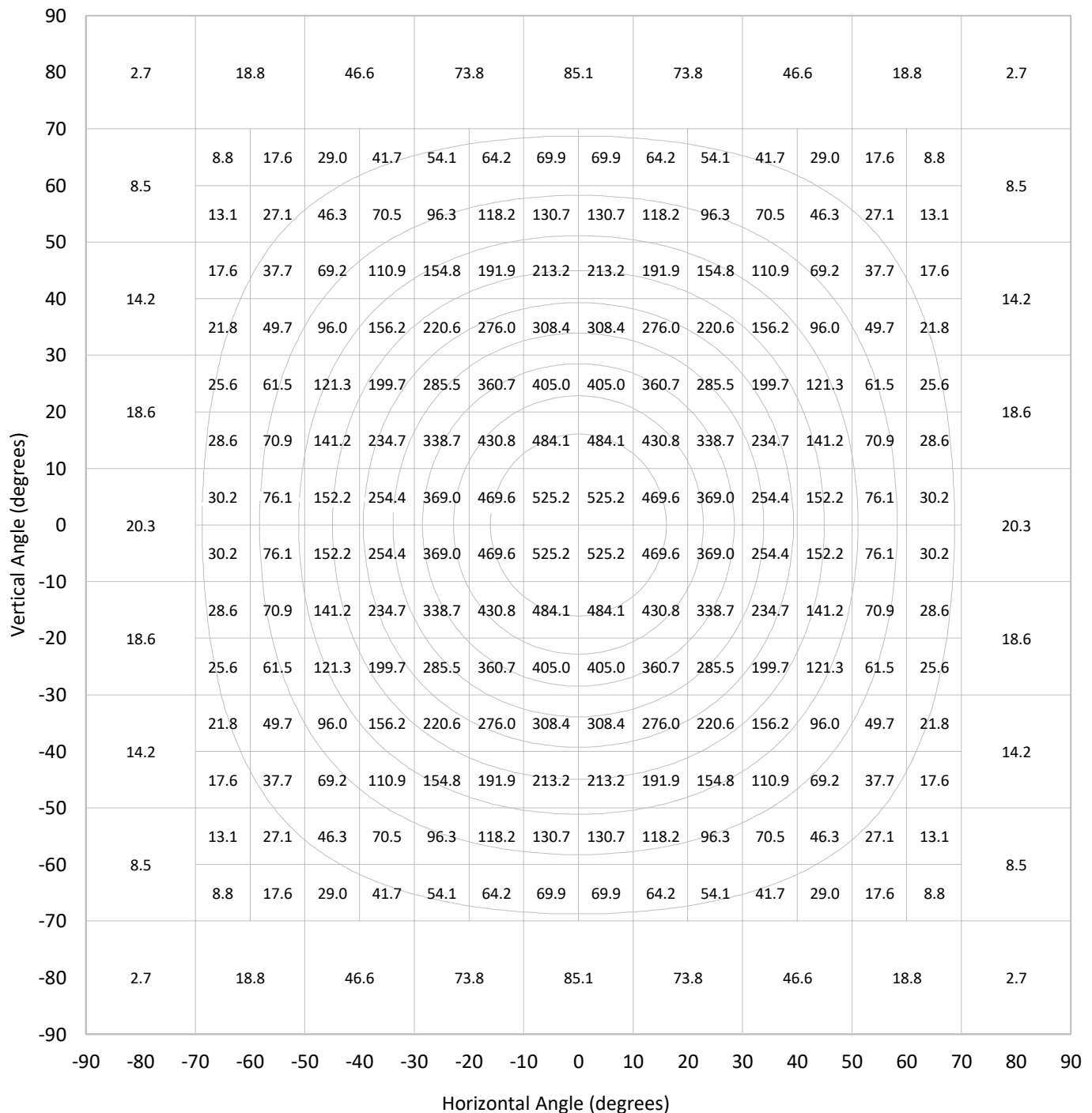
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Iso-Candela Plot



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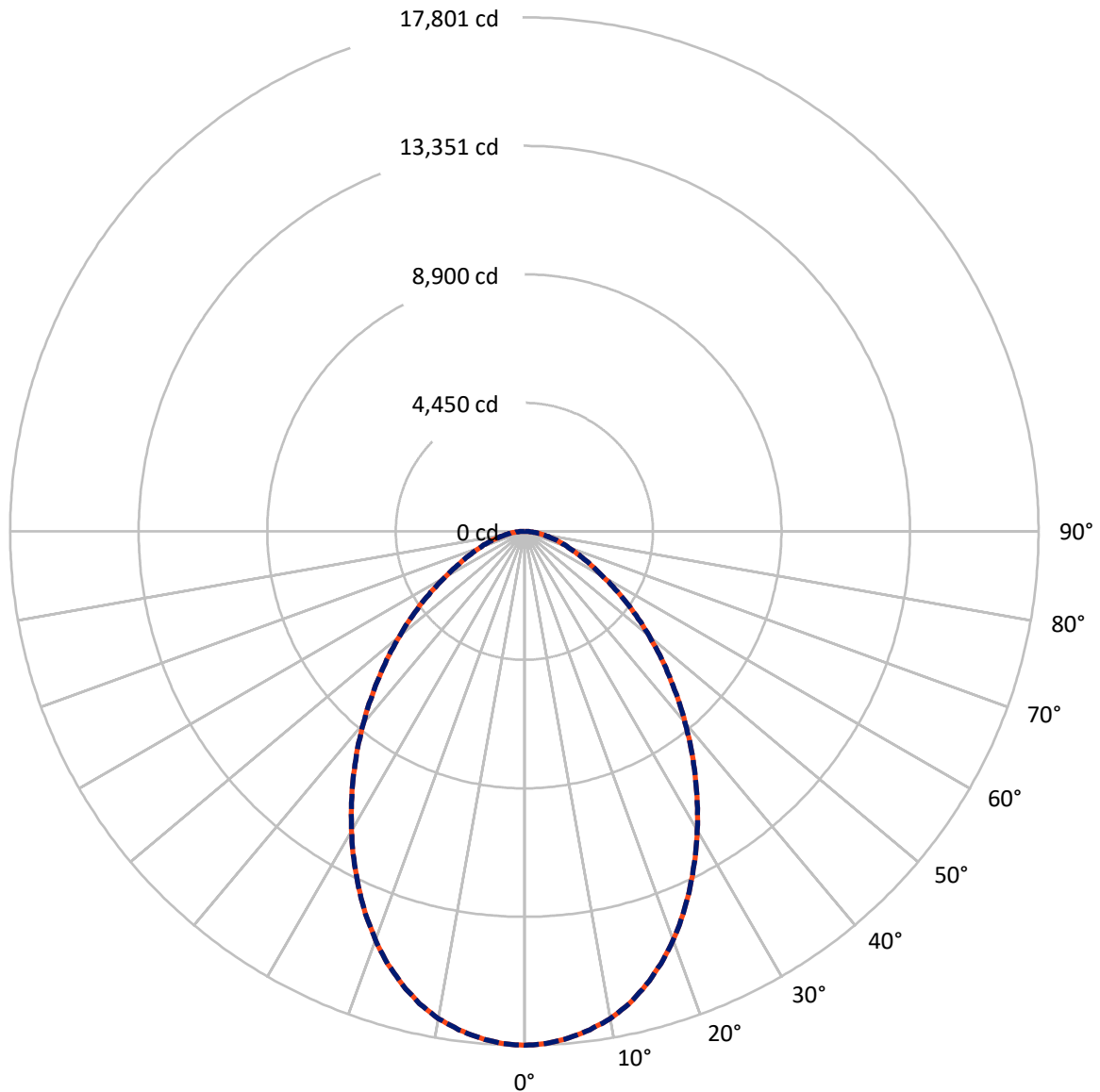
Lumen Table



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Luminous Intensity Polar Plot



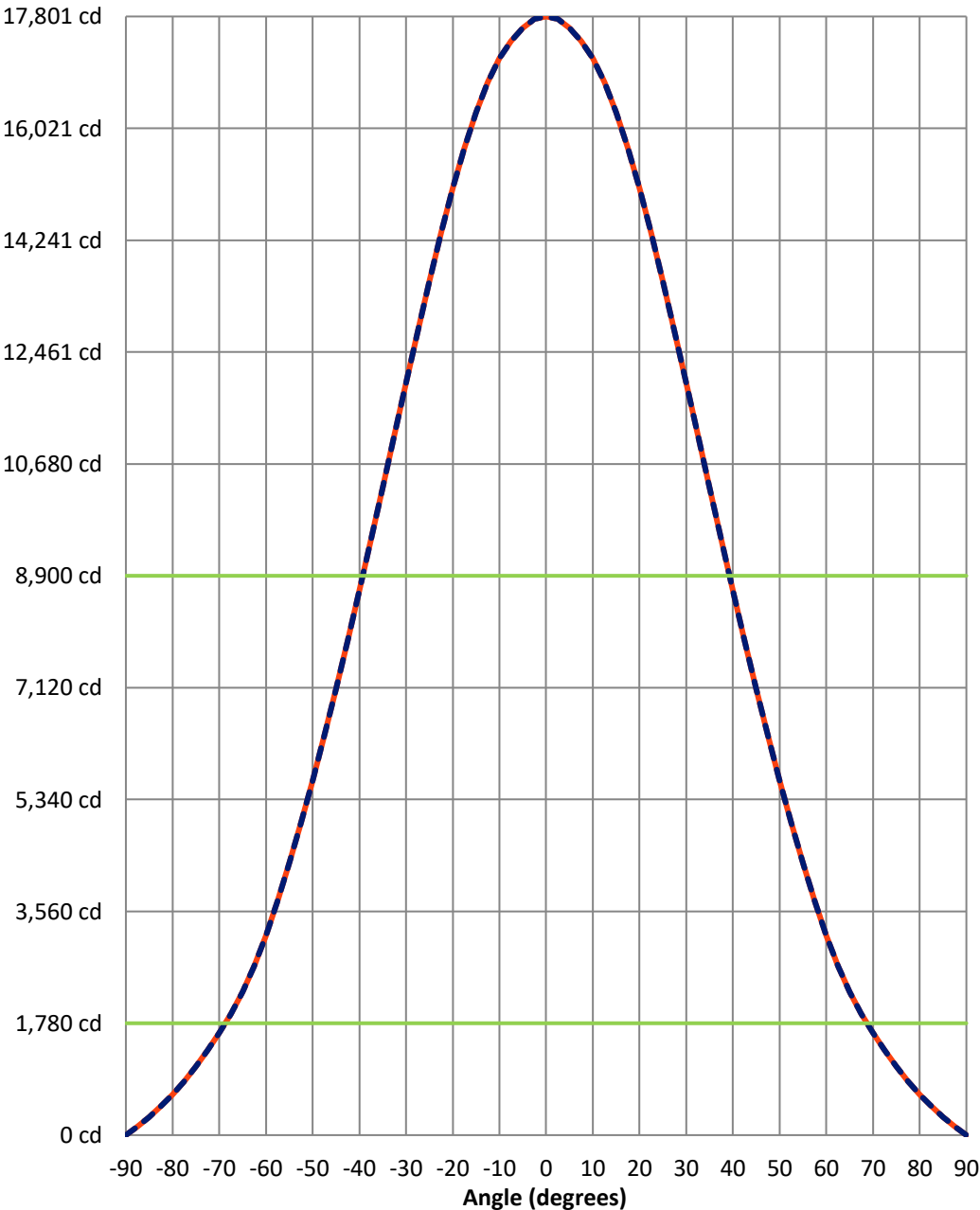
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 13868
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 22708.4
Efficiency: 70.9%

Spill:
Lumens: 9342.3
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°	137.0	137.0	137.0	137.0	137.0	137.0	137.0	130.3	130.3	127.0	123.6
85°	287.4	287.4	287.4	287.4	287.4	280.7	277.4	274.0	270.7	264.0	260.6
82.5°	461.1	461.1	461.1	461.1	454.5	447.8	444.4	437.8	431.1	421.0	411.0
80°	644.9	644.9	644.9	644.9	634.9	628.2	618.2	611.5	601.5	588.1	574.8
77.5°	855.5	855.5	855.5	845.4	838.7	828.7	818.7	805.3	792.0	775.3	755.2
75°	1092.7	1092.7	1092.7	1079.3	1069.3	1059.3	1042.6	1025.9	1005.8	982.4	955.7
72.5°	1350.0	1350.0	1350.0	1333.3	1323.3	1306.6	1286.5	1263.1	1239.7	1209.7	1176.2
70°	1627.4	1627.4	1627.4	1607.3	1590.6	1573.9	1547.2	1520.4	1487.0	1453.6	1413.5
67.5°	1928.1	1928.1	1928.1	1904.7	1884.7	1861.3	1831.2	1797.8	1757.7	1710.9	1664.1
65°	2279.0	2279.0	2265.6	2245.6	2222.2	2188.8	2152.0	2105.2	2055.1	1994.9	1931.5
62.5°	2693.3	2693.3	2673.3	2649.9	2619.8	2576.4	2526.3	2466.1	2395.9	2319.1	2242.2
60°	3174.5	3174.5	3151.1	3121.1	3077.6	3024.2	2957.3	2880.5	2793.6	2696.7	2603.1
57.5°	3729.2	3729.2	3699.2	3659.1	3605.6	3538.8	3455.2	3358.3	3248.0	3127.8	3010.8
55°	4330.7	4330.7	4294.0	4247.2	4183.7	4103.5	4003.3	3889.6	3756.0	3619.0	3468.6
52.5°	4969.0	4969.0	4925.5	4872.1	4798.6	4705.0	4591.4	4457.7	4304.0	4143.6	3966.5
50°	5640.6	5640.6	5590.5	5530.4	5446.8	5336.6	5206.2	5052.5	4882.1	4695.0	4491.1
47.5°	6359.1	6359.1	6302.3	6232.1	6131.9	6004.9	5851.2	5674.1	5480.2	5269.7	5039.2
45°	7097.6	7097.6	7034.1	6953.9	6843.6	6699.9	6529.5	6359.1	6111.8	5867.9	5600.5
42.5°	7866.2	7866.2	7792.6	7702.4	7575.4	7418.4	7224.6	7004.0	6760.1	6486.1	6195.4
40°	8664.8	8664.8	8581.3	8477.7	8337.3	8156.9	7939.7	7692.4	7418.4	7114.3	6793.5
37.5°	9480.2	9480.2	9386.6	9273.0	9115.9	8915.4	8671.5	8397.5	8090.0	7752.5	7398.3
35°	10302.2	10302.2	10198.6	10075.0	9901.2	9680.7	9416.7	9112.6	8771.7	8404.2	8006.5
32.5°	11140.9	11140.9	11027.3	10887.0	10689.8	10445.9	10155.2	9824.3	9480.2	9052.4	8618.0
30°	11969.7	11969.7	11846.0	11692.3	11481.8	11214.5	10897.0	10532.8	10128.4	9690.7	9222.9
27.5°	12785.0	12751.6	12648.0	12484.3	12253.7	11969.7	11625.5	11231.2	10793.4	10312.2	9811.0
25°	13587.0	13550.2	13436.6	13256.2	13008.9	12698.1	12327.2	11906.2	11435.0	10927.1	10379.1
22.5°	14355.6	14315.5	14195.2	14001.4	13737.4	13399.9	13002.2	12551.1	12049.9	11505.2	10927.1
20°	15067.3	15023.9	14900.3	14696.4	14422.4	14064.9	13643.8	13159.3	12624.6	12049.9	11435.0
17.5°	15708.9	15665.5	15535.2	15324.6	15067.3	14669.7	14235.3	13724.0	13159.3	12551.1	11906.2
15°	16273.7	16226.9	16093.2	15882.7	15588.6	15214.4	14756.6	14235.3	13643.8	13002.2	12327.2
12.5°	16754.9	16708.1	16571.1	16360.5	16056.5	15682.2	15214.4	14669.7	14064.9	13399.9	12698.1
10°	17135.8	17089.0	16958.7	16758.2	16444.1	16056.5	15588.6	15067.3	14422.4	13737.4	13008.9
7.5°	17409.8	17366.4	17246.1	17045.6	16758.2	16360.5	15882.7	15324.6	14696.4	14001.4	13256.2
5°	17617.0	17566.9	17446.6	17246.1	16958.7	16571.1	16093.2	15535.2	14900.3	14195.2	13436.6
2.5°	17760.7	17700.5	17566.9	17366.4	17089.0	16708.1	16226.9	15665.5	15023.9	14315.5	13550.2
0°	17800.8	17760.7	17617.0	17409.8	17135.8	16754.9	16273.7	15708.9	15067.3	14355.6	13587.0

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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°	120.3	120.3	117.0	113.6	110.3	103.6	100.2	96.9	93.6	86.9	83.5
85°	254.0	247.3	240.6	233.9	223.9	217.2	207.2	200.5	190.5	180.4	170.4
82.5°	401.0	391.0	377.6	367.6	354.2	337.5	324.1	307.4	290.7	277.4	260.6
80°	561.4	544.7	528.0	511.3	491.2	471.2	451.1	431.1	407.7	384.3	360.9
77.5°	735.2	711.8	688.4	661.6	638.2	611.5	584.8	558.0	528.0	497.9	467.8
75°	929.0	898.9	865.5	832.1	802.0	765.2	728.5	691.7	651.6	614.9	574.8
72.5°	1139.5	1102.7	1062.6	1022.5	979.1	932.3	885.5	835.4	788.6	741.8	691.7
70°	1366.7	1323.3	1273.2	1223.0	1169.6	1112.8	1056.0	995.8	935.7	875.5	815.4
67.5°	1610.7	1557.2	1497.0	1436.9	1370.1	1303.2	1236.4	1166.2	1092.7	1019.2	949.0
65°	1871.3	1804.5	1734.3	1657.4	1580.6	1503.7	1423.5	1340.0	1256.4	1169.6	1092.7
62.5°	2162.0	2078.5	1988.3	1894.7	1807.8	1714.2	1627.4	1523.8	1423.5	1326.6	1229.7
60°	2499.5	2389.3	2279.0	2162.0	2051.8	1931.5	1824.5	1710.9	1597.3	1487.0	1373.4
57.5°	2877.1	2736.8	2603.1	2462.8	2315.7	2182.1	2045.1	1908.1	1781.1	1650.8	1527.1
55°	3304.9	3134.4	2967.4	2793.6	2623.2	2456.1	2282.3	2128.6	1971.6	1824.5	1680.8
52.5°	3772.7	3578.9	3371.7	3174.5	2957.3	2750.1	2556.3	2362.5	2178.7	2001.6	1837.9
50°	4273.9	4046.7	3809.4	3568.8	3321.6	3077.6	2843.7	2616.5	2402.6	2195.4	2001.6
47.5°	4795.2	4537.9	4267.2	3993.2	3729.2	3431.8	3151.1	2893.8	2636.5	2402.6	2178.7
45°	5329.9	5039.2	4741.8	4431.0	4120.2	3799.4	3488.6	3174.5	2893.8	2616.5	2362.5
42.5°	5881.2	5553.8	5222.9	4878.8	4534.6	4183.7	3832.8	3488.6	3151.1	2843.7	2556.3
40°	6449.3	6088.4	5710.8	5336.6	4969.0	4568.0	4183.7	3799.4	3431.8	3077.6	2750.1
37.5°	7017.4	6623.1	6215.4	5794.4	5373.3	4969.0	4534.6	4120.2	3729.2	3321.6	2957.3
35°	7588.8	7154.4	6713.3	6255.5	5794.4	5336.6	4878.8	4431.0	3993.2	3568.8	3174.5
32.5°	8163.6	7689.1	7201.2	6713.3	6215.4	5710.8	5222.9	4741.8	4267.2	3809.4	3371.7
30°	8728.3	8213.7	7689.1	7154.4	6623.1	6088.4	5553.8	5039.2	4537.9	4046.7	3578.9
27.5°	9279.7	8728.3	8163.6	7588.8	7017.4	6449.3	5881.2	5329.9	4795.2	4273.9	3772.7
25°	9811.0	9222.9	8618.0	8006.5	7398.3	6793.5	6195.4	5600.5	5039.2	4491.1	3966.5
22.5°	10312.2	9690.7	9052.4	8404.2	7752.5	7114.3	6486.1	5867.9	5269.7	4695.0	4143.6
20°	10793.4	10128.4	9480.2	8771.7	8090.0	7418.4	6760.1	6111.8	5480.2	4882.1	4304.0
17.5°	11231.2	10532.8	9824.3	9112.6	8397.5	7692.4	7004.0	6359.1	5674.1	5052.5	4457.7
15°	11625.5	10897.0	10155.2	9416.7	8671.5	7939.7	7224.6	6529.5	5851.2	5206.2	4591.4
12.5°	11969.7	11214.5	10445.9	9680.7	8915.4	8156.9	7418.4	6699.9	6004.9	5336.6	4705.0
10°	12253.7	11481.8	10689.8	9901.2	9115.9	8337.3	7575.4	6843.6	6131.9	5446.8	4798.6
7.5°	12484.3	11692.3	10887.0	10075.0	9273.0	8477.7	7702.4	6953.9	6232.1	5530.4	4872.1
5°	12648.0	11846.0	11027.3	10198.6	9386.6	8581.3	7792.6	7034.1	6302.3	5590.5	4925.5
2.5°	12751.6	11969.7	11140.9	10302.2	9480.2	8664.8	7866.2	7097.6	6359.1	5640.6	4969.0
0°	12785.0	11969.7	11140.9	10302.2	9480.2	8664.8	7866.2	7097.6	6359.1	5640.6	4969.0

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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°	80.2	73.5	66.8	63.5	56.8	53.5	46.8	40.1	36.8	30.1	23.4
85°	160.4	147.0	137.0	127.0	117.0	103.6	93.6	83.5	70.2	60.1	46.8
82.5°	243.9	227.2	210.5	193.8	177.1	160.4	140.3	123.6	106.9	90.2	70.2
80°	337.5	310.8	287.4	264.0	240.6	217.2	190.5	167.1	140.3	117.0	93.6
77.5°	434.4	404.3	370.9	337.5	304.1	274.0	240.6	210.5	180.4	147.0	117.0
75°	538.0	497.9	461.1	417.7	377.6	334.2	294.1	254.0	217.2	180.4	140.3
72.5°	644.9	594.8	544.7	497.9	447.8	397.7	350.9	300.7	254.0	210.5	167.1
70°	755.2	695.1	634.9	578.1	521.3	461.1	407.7	350.9	294.1	240.6	190.5
67.5°	872.2	802.0	731.8	658.3	594.8	528.0	461.1	397.7	334.2	274.0	217.2
65°	999.1	915.6	828.7	751.9	668.3	594.8	521.3	447.8	377.6	304.1	240.6
62.5°	1129.5	1032.6	935.7	838.7	751.9	658.3	578.1	497.9	417.7	337.5	264.0
60°	1263.1	1152.9	1042.6	935.7	828.7	731.8	634.9	544.7	461.1	370.9	287.4
57.5°	1400.1	1276.5	1152.9	1032.6	915.6	802.0	695.1	594.8	497.9	404.3	310.8
55°	1540.5	1400.1	1263.1	1129.5	999.1	872.2	755.2	644.9	538.0	434.4	337.5
52.5°	1680.8	1527.1	1373.4	1229.7	1092.7	949.0	815.4	691.7	574.8	467.8	360.9
50°	1824.5	1650.8	1487.0	1326.6	1169.6	1019.2	875.5	741.8	614.9	497.9	384.3
47.5°	1971.6	1781.1	1597.3	1423.5	1256.4	1092.7	935.7	788.6	651.6	528.0	407.7
45°	2128.6	1908.1	1710.9	1523.8	1340.0	1166.2	995.8	835.4	691.7	558.0	431.1
42.5°	2282.3	2045.1	1824.5	1627.4	1423.5	1236.4	1056.0	885.5	728.5	584.8	451.1
40°	2456.1	2182.1	1931.5	1714.2	1503.7	1303.2	1112.8	932.3	765.2	611.5	471.2
37.5°	2623.2	2315.7	2051.8	1807.8	1580.6	1370.1	1169.6	979.1	802.0	638.2	491.2
35°	2793.6	2462.8	2162.0	1894.7	1657.4	1436.9	1223.0	1022.5	832.1	661.6	511.3
32.5°	2967.4	2603.1	2279.0	1988.3	1734.3	1497.0	1273.2	1062.6	865.5	688.4	528.0
30°	3134.4	2736.8	2389.3	2078.5	1804.5	1557.2	1323.3	1102.7	898.9	711.8	544.7
27.5°	3304.9	2877.1	2499.5	2162.0	1871.3	1610.7	1366.7	1139.5	929.0	735.2	561.4
25°	3468.6	3010.8	2603.1	2242.2	1931.5	1664.1	1413.5	1176.2	955.7	755.2	574.8
22.5°	3619.0	3127.8	2696.7	2319.1	1994.9	1710.9	1453.6	1209.7	982.4	775.3	588.1
20°	3756.0	3248.0	2793.6	2395.9	2055.1	1757.7	1487.0	1239.7	1005.8	792.0	601.5
17.5°	3889.6	3358.3	2880.5	2466.1	2105.2	1797.8	1520.4	1263.1	1025.9	805.3	611.5
15°	4003.3	3455.2	2957.3	2526.3	2152.0	1831.2	1547.2	1286.5	1042.6	818.7	618.2
12.5°	4103.5	3538.8	3024.2	2576.4	2188.8	1861.3	1573.9	1306.6	1059.3	828.7	628.2
10°	4183.7	3605.6	3077.6	2619.8	2222.2	1884.7	1590.6	1323.3	1069.3	838.7	634.9
7.5°	4247.2	3659.1	3121.1	2649.9	2245.6	1904.7	1607.3	1333.3	1079.3	845.4	644.9
5°	4294.0	3699.2	3151.1	2673.3	2265.6	1928.1	1627.4	1350.0	1092.7	855.5	644.9
2.5°	4330.7	3729.2	3174.5	2693.3	2279.0	1928.1	1627.4	1350.0	1092.7	855.5	644.9
0°	4330.7	3729.2	3174.5	2693.3	2279.0	1928.1	1627.4	1350.0	1092.7	855.5	644.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.7	13.4	6.7	0.0
85°	36.8	23.4	13.4	0.0
82.5°	53.5	36.8	16.7	0.0
80°	70.2	46.8	23.4	0.0
77.5°	90.2	60.1	30.1	0.0
75°	106.9	70.2	36.8	0.0
72.5°	123.6	83.5	40.1	0.0
70°	140.3	93.6	46.8	0.0
67.5°	160.4	103.6	53.5	0.0
65°	177.1	117.0	56.8	0.0
62.5°	193.8	127.0	63.5	0.0
60°	210.5	137.0	66.8	0.0
57.5°	227.2	147.0	73.5	0.0
55°	243.9	160.4	80.2	0.0
52.5°	260.6	170.4	83.5	0.0
50°	277.4	180.4	86.9	0.0
47.5°	290.7	190.5	93.6	0.0
45°	307.4	200.5	96.9	0.0
42.5°	324.1	207.2	100.2	0.0
40°	337.5	217.2	103.6	0.0
37.5°	354.2	223.9	110.3	0.0
35°	367.6	233.9	113.6	0.0
32.5°	377.6	240.6	117.0	0.0
30°	391.0	247.3	120.3	0.0
27.5°	401.0	254.0	120.3	0.0
25°	411.0	260.6	123.6	0.0
22.5°	421.0	264.0	127.0	0.0
20°	431.1	270.7	130.3	0.0
17.5°	437.8	274.0	130.3	0.0
15°	444.4	277.4	137.0	0.0
12.5°	447.8	280.7	137.0	0.0
10°	454.5	287.4	137.0	0.0
7.5°	461.1	287.4	137.0	0.0
5°	461.1	287.4	137.0	0.0
2.5°	461.1	287.4	137.0	0.0
0°	461.1	287.4	137.0	0.0

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