

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: P623891

Luminaire Tested: **IFLD-L-SA7C-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623891
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	41909.3 lumens	Max Intensity:	23276.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	113.6 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:	18133.8 lumens	Field Lumens:	29693.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

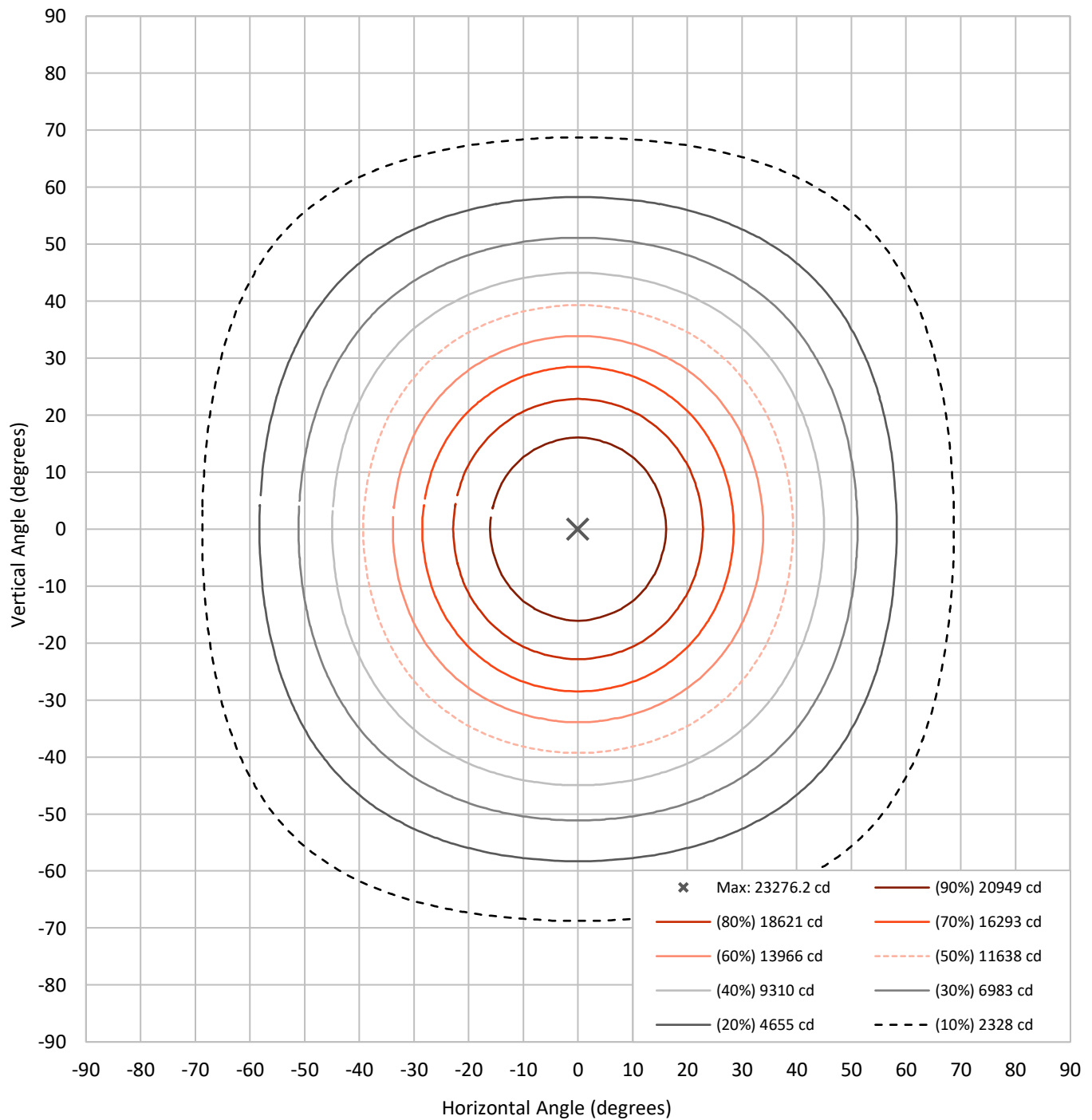
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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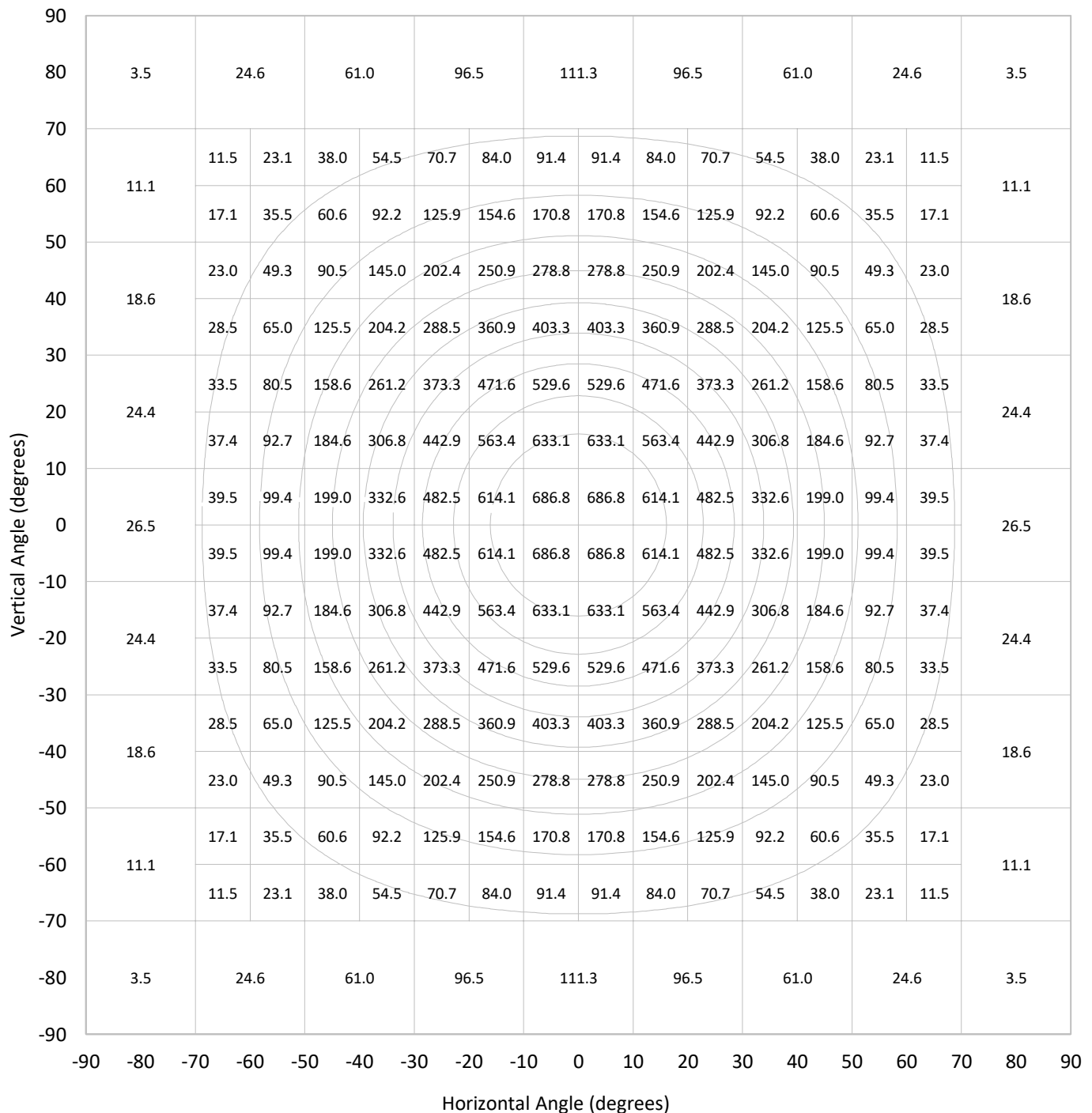
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Iso-Candela Plot



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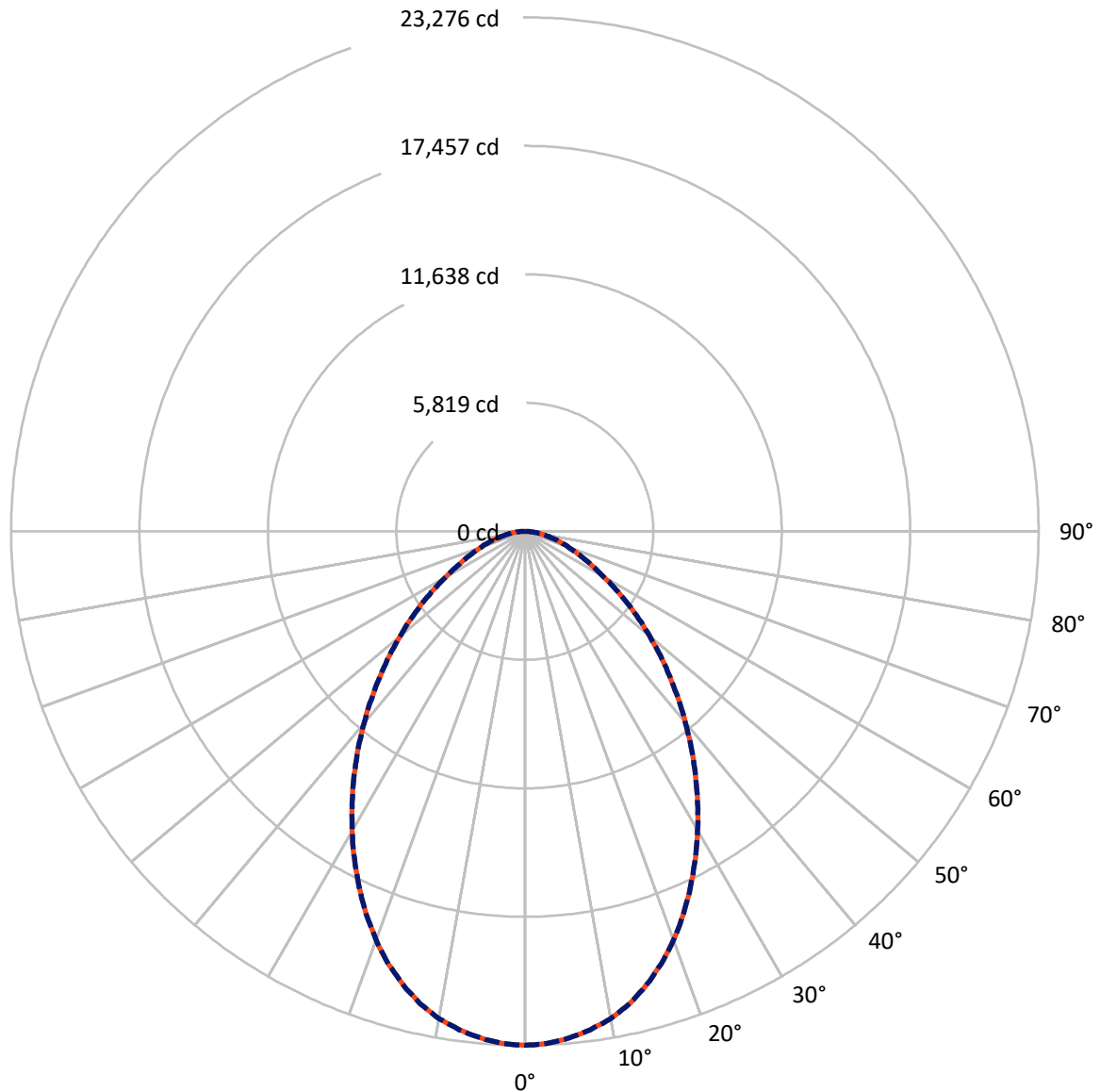
Lumen Table



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Luminous Intensity Polar Plot

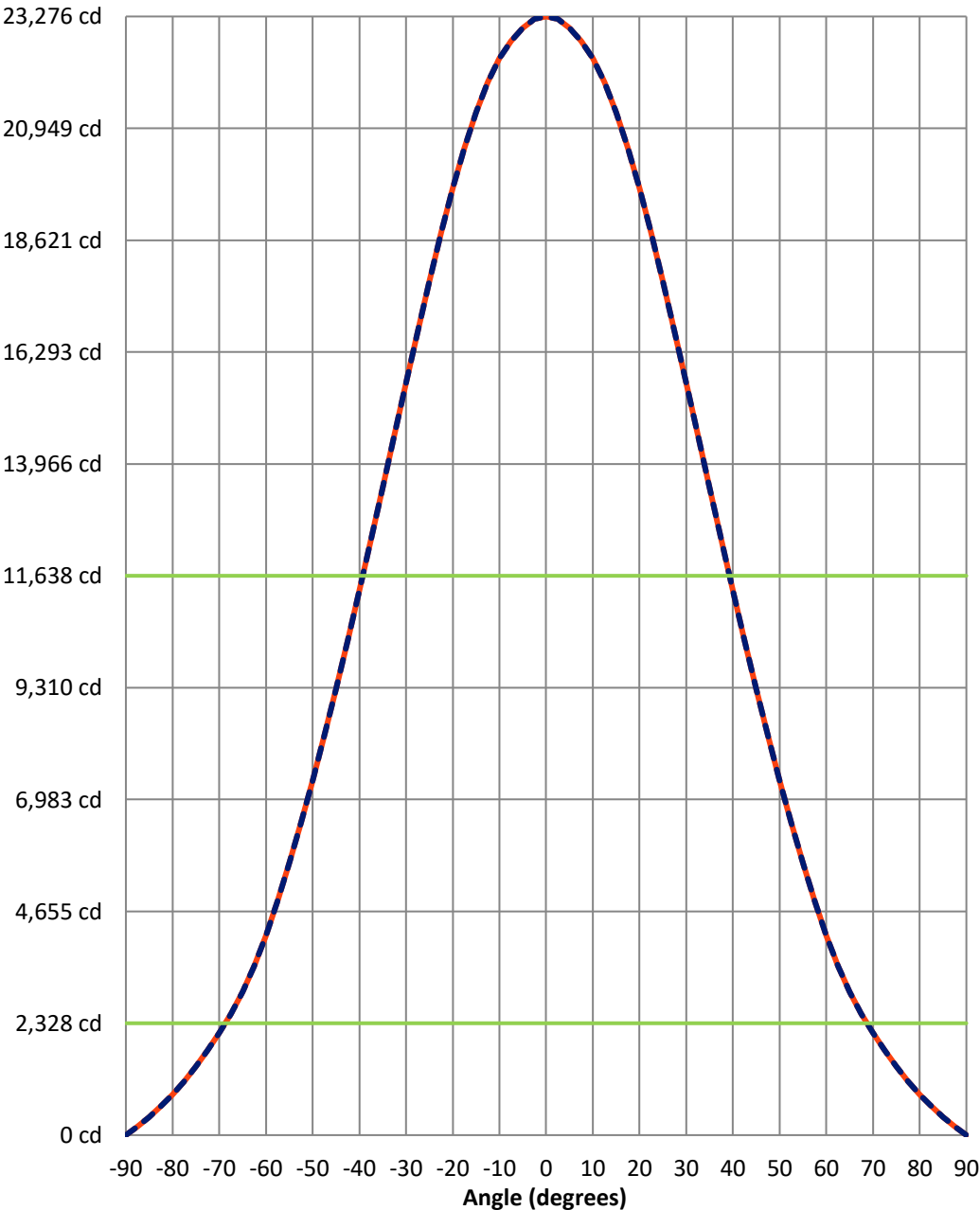


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 18133.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 29693.4
Efficiency: 70.9%

Spill:
Lumens: 12215.9
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°	179.1	179.1	179.1	179.1	179.1	179.1	179.1	170.4	170.4	166.0	161.7
85°	375.8	375.8	375.8	375.8	375.8	367.0	362.7	358.3	353.9	345.2	340.8
82.5°	603.0	603.0	603.0	603.0	594.2	585.5	581.1	572.4	563.7	550.6	537.4
80°	843.3	843.3	843.3	843.3	830.2	821.5	808.4	799.6	786.5	769.0	751.5
77.5°	1118.6	1118.6	1118.6	1105.5	1096.7	1083.6	1070.5	1053.0	1035.6	1013.7	987.5
75°	1428.8	1428.8	1428.8	1411.3	1398.2	1385.1	1363.3	1341.4	1315.2	1284.6	1249.7
72.5°	1765.3	1765.3	1765.3	1743.4	1730.3	1708.5	1682.2	1651.7	1621.1	1581.8	1538.1
70°	2127.9	2127.9	2127.9	2101.7	2079.9	2058.0	2023.1	1988.1	1944.4	1900.7	1848.3
67.5°	2521.2	2521.2	2521.2	2490.6	2464.4	2433.8	2394.5	2350.8	2298.3	2237.2	2176.0
65°	2980.0	2980.0	2962.5	2936.3	2905.7	2862.0	2813.9	2752.8	2687.2	2608.6	2525.6
62.5°	3521.8	3521.8	3495.6	3465.0	3425.7	3368.9	3303.3	3224.7	3132.9	3032.4	2931.9
60°	4151.0	4151.0	4120.4	4081.1	4024.3	3954.4	3867.0	3766.5	3652.9	3526.2	3403.8
57.5°	4876.3	4876.3	4837.0	4784.6	4714.7	4627.3	4518.0	4391.3	4247.1	4089.8	3936.9
55°	5662.8	5662.8	5614.8	5553.6	5470.6	5365.7	5234.6	5086.1	4911.3	4732.1	4535.5
52.5°	6497.4	6497.4	6440.6	6370.7	6274.6	6152.2	6003.7	5828.9	5627.9	5418.2	5186.6
50°	7375.7	7375.7	7310.1	7231.5	7122.2	6978.1	6807.6	6606.6	6383.8	6139.1	5872.6
47.5°	8315.1	8315.1	8240.8	8149.1	8018.0	7851.9	7651.0	7419.4	7165.9	6890.7	6589.2
45°	9280.8	9280.8	9197.7	9092.9	8948.7	8760.8	8538.0	8315.1	7991.8	7672.8	7323.2
42.5°	10285.7	10285.7	10189.6	10071.6	9905.6	9700.2	9446.8	9158.4	8839.5	8481.2	8101.0
40°	11330.1	11330.1	11220.8	11085.4	10901.8	10665.9	10381.9	10058.5	9700.2	9302.6	8883.1
37.5°	12396.2	12396.2	12273.9	12125.3	11919.9	11657.8	11338.8	10980.5	10578.5	10137.2	9674.0
35°	13471.1	13471.1	13335.6	13174.0	12946.8	12658.4	12313.2	11915.6	11469.9	10989.2	10469.3
32.5°	14567.8	14567.8	14419.3	14235.8	13978.0	13659.0	13278.8	12846.3	12396.2	11836.9	11268.9
30°	15651.5	15651.5	15489.8	15288.8	15013.5	14664.0	14248.9	13772.6	13243.9	12671.5	12059.8
27.5°	16717.6	16673.9	16538.5	16324.4	16022.9	15651.5	15201.4	14685.8	14113.4	13484.2	12828.8
25°	17766.3	17718.2	17569.7	17333.7	17010.4	16604.0	16119.0	15568.4	14952.3	14288.2	13571.6
22.5°	18771.3	18718.8	18561.5	18308.1	17962.9	17521.6	17001.6	16411.8	15756.3	15044.1	14288.2
20°	19702.0	19645.2	19483.5	19217.0	18858.7	18391.1	17840.6	17207.0	16507.9	15756.3	14952.3
17.5°	20540.9	20484.1	20313.7	20038.4	19702.0	19182.0	18614.0	17945.4	17207.0	16411.8	15568.4
15°	21279.4	21218.2	21043.4	20768.1	20383.6	19894.2	19295.6	18614.0	17840.6	17001.6	16119.0
12.5°	21908.6	21847.4	21668.2	21393.0	20995.3	20506.0	19894.2	19182.0	18391.1	17521.6	16604.0
10°	22406.7	22345.5	22175.1	21912.9	21502.2	20995.3	20383.6	19702.0	18858.7	17962.9	17010.4
7.5°	22765.0	22708.2	22550.9	22288.7	21912.9	21393.0	20768.1	20038.4	19217.0	18308.1	17333.7
5°	23035.9	22970.3	22813.0	22550.9	22175.1	21668.2	21043.4	20313.7	19483.5	18561.5	17569.7
2.5°	23223.8	23145.1	22970.3	22708.2	22345.5	21847.4	21218.2	20484.1	19645.2	18718.8	17718.2
0°	23276.2	23223.8	23035.9	22765.0	22406.7	21908.6	21279.4	20540.9	19702.0	18771.3	17766.3

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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°	157.3	157.3	152.9	148.6	144.2	135.5	131.1	126.7	122.3	113.6	109.2
85°	332.1	323.3	314.6	305.9	292.8	284.0	270.9	262.2	249.1	236.0	222.8
82.5°	524.3	511.2	493.8	480.6	463.2	441.3	423.8	402.0	380.1	362.7	340.8
80°	734.1	712.2	690.4	668.5	642.3	616.1	589.9	563.7	533.1	502.5	471.9
77.5°	961.3	930.7	900.1	865.2	834.6	799.6	764.7	729.7	690.4	651.1	611.7
75°	1214.7	1175.4	1131.7	1088.0	1048.7	1000.6	952.5	904.5	852.0	804.0	751.5
72.5°	1490.0	1441.9	1389.5	1337.1	1280.3	1219.1	1157.9	1092.4	1031.2	970.0	904.5
70°	1787.1	1730.3	1664.8	1599.2	1529.3	1455.0	1380.8	1302.1	1223.5	1144.8	1066.2
67.5°	2106.1	2036.2	1957.5	1878.9	1791.5	1704.1	1616.7	1524.9	1428.8	1332.7	1240.9
65°	2446.9	2359.5	2267.8	2167.3	2066.8	1966.3	1861.4	1752.2	1642.9	1529.3	1428.8
62.5°	2827.1	2717.8	2599.8	2477.5	2363.9	2241.5	2127.9	1992.5	1861.4	1734.7	1608.0
60°	3268.4	3124.2	2980.0	2827.1	2682.9	2525.6	2385.7	2237.2	2088.6	1944.4	1795.9
57.5°	3762.1	3578.6	3403.8	3220.3	3028.0	2853.3	2674.1	2495.0	2328.9	2158.5	1996.9
55°	4321.4	4098.6	3880.1	3652.9	3430.0	3211.6	2984.4	2783.4	2578.0	2385.7	2197.8
52.5°	4933.1	4679.7	4408.8	4151.0	3867.0	3596.1	3342.6	3089.2	2848.9	2617.3	2403.2
50°	5588.6	5291.4	4981.2	4666.6	4343.3	4024.3	3718.4	3421.3	3141.7	2870.7	2617.3
47.5°	6270.2	5933.7	5579.8	5221.5	4876.3	4487.5	4120.4	3784.0	3447.5	3141.7	2848.9
45°	6969.3	6589.2	6200.3	5793.9	5387.6	4968.1	4561.7	4151.0	3784.0	3421.3	3089.2
42.5°	7690.3	7262.1	6829.5	6379.4	5929.4	5470.6	5011.8	4561.7	4120.4	3718.4	3342.6
40°	8433.1	7961.2	7467.4	6978.1	6497.4	5973.1	5470.6	4968.1	4487.5	4024.3	3596.1
37.5°	9175.9	8660.3	8127.2	7576.7	7026.1	6497.4	5929.4	5387.6	4876.3	4343.3	3867.0
35°	9923.1	9355.0	8778.3	8179.7	7576.7	6978.1	6379.4	5793.9	5221.5	4666.6	4151.0
32.5°	10674.6	10054.2	9416.2	8778.3	8127.2	7467.4	6829.5	6200.3	5579.8	4981.2	4408.8
30°	11413.1	10740.2	10054.2	9355.0	8660.3	7961.2	7262.1	6589.2	5933.7	5291.4	4679.7
27.5°	12134.0	11413.1	10674.6	9923.1	9175.9	8433.1	7690.3	6969.3	6270.2	5588.6	4933.1
25°	12828.8	12059.8	11268.9	10469.3	9674.0	8883.1	8101.0	7323.2	6589.2	5872.6	5186.6
22.5°	13484.2	12671.5	11836.9	10989.2	10137.2	9302.6	8481.2	7672.8	6890.7	6139.1	5418.2
20°	14113.4	13243.9	12396.2	11469.9	10578.5	9700.2	8839.5	7991.8	7165.9	6383.8	5627.9
17.5°	14685.8	13772.6	12846.3	11915.6	10980.5	10058.5	9158.4	8315.1	7419.4	6606.6	5828.9
15°	15201.4	14248.9	13278.8	12313.2	11338.8	10381.9	9446.8	8538.0	7651.0	6807.6	6003.7
12.5°	15651.5	14664.0	13659.0	12658.4	11657.8	10665.9	9700.2	8760.8	7851.9	6978.1	6152.2
10°	16022.9	15013.5	13978.0	12946.8	11919.9	10901.8	9905.6	8948.7	8018.0	7122.2	6274.6
7.5°	16324.4	15288.8	14235.8	13174.0	12125.3	11085.4	10071.6	9092.9	8149.1	7231.5	6370.7
5°	16538.5	15489.8	14419.3	13335.6	12273.9	11220.8	10189.6	9197.7	8240.8	7310.1	6440.6
2.5°	16673.9	15651.5	14567.8	13471.1	12396.2	11330.1	10285.7	9280.8	8315.1	7375.7	6497.4
0°	16717.6	15651.5	14567.8	13471.1	12396.2	11330.1	10285.7	9280.8	8315.1	7375.7	6497.4

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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°	104.9	96.1	87.4	83.0	74.3	69.9	61.2	52.4	48.1	39.3	30.6
85°	209.7	192.3	179.1	166.0	152.9	135.5	122.3	109.2	91.8	78.7	61.2
82.5°	319.0	297.1	275.3	253.4	231.6	209.7	183.5	161.7	139.8	118.0	91.8
80°	441.3	406.4	375.8	345.2	314.6	284.0	249.1	218.5	183.5	152.9	122.3
77.5°	568.0	528.7	485.0	441.3	397.6	358.3	314.6	275.3	236.0	192.3	152.9
75°	703.5	651.1	603.0	546.2	493.8	436.9	384.5	332.1	284.0	236.0	183.5
72.5°	843.3	777.8	712.2	651.1	585.5	520.0	458.8	393.3	332.1	275.3	218.5
70°	987.5	908.9	830.2	755.9	681.6	603.0	533.1	458.8	384.5	314.6	249.1
67.5°	1140.4	1048.7	956.9	860.8	777.8	690.4	603.0	520.0	436.9	358.3	284.0
65°	1306.5	1197.2	1083.6	983.1	873.9	777.8	681.6	585.5	493.8	397.6	314.6
62.5°	1476.9	1350.2	1223.5	1096.7	983.1	860.8	755.9	651.1	546.2	441.3	345.2
60°	1651.7	1507.5	1363.3	1223.5	1083.6	956.9	830.2	712.2	603.0	485.0	375.8
57.5°	1830.8	1669.1	1507.5	1350.2	1197.2	1048.7	908.9	777.8	651.1	528.7	406.4
55°	2014.3	1830.8	1651.7	1476.9	1306.5	1140.4	987.5	843.3	703.5	568.0	441.3
52.5°	2197.8	1996.9	1795.9	1608.0	1428.8	1240.9	1066.2	904.5	751.5	611.7	471.9
50°	2385.7	2158.5	1944.4	1734.7	1529.3	1332.7	1144.8	970.0	804.0	651.1	502.5
47.5°	2578.0	2328.9	2088.6	1861.4	1642.9	1428.8	1223.5	1031.2	852.0	690.4	533.1
45°	2783.4	2495.0	2237.2	1992.5	1752.2	1524.9	1302.1	1092.4	904.5	729.7	563.7
42.5°	2984.4	2674.1	2385.7	2127.9	1861.4	1616.7	1380.8	1157.9	952.5	764.7	589.9
40°	3211.6	2853.3	2525.6	2241.5	1966.3	1704.1	1455.0	1219.1	1000.6	799.6	616.1
37.5°	3430.0	3028.0	2682.9	2363.9	2066.8	1791.5	1529.3	1280.3	1048.7	834.6	642.3
35°	3652.9	3220.3	2827.1	2477.5	2167.3	1878.9	1599.2	1337.1	1088.0	865.2	668.5
32.5°	3880.1	3403.8	2980.0	2599.8	2267.8	1957.5	1664.8	1389.5	1131.7	900.1	690.4
30°	4098.6	3578.6	3124.2	2717.8	2359.5	2036.2	1730.3	1441.9	1175.4	930.7	712.2
27.5°	4321.4	3762.1	3268.4	2827.1	2446.9	2106.1	1787.1	1490.0	1214.7	961.3	734.1
25°	4535.5	3936.9	3403.8	2931.9	2525.6	2176.0	1848.3	1538.1	1249.7	987.5	751.5
22.5°	4732.1	4089.8	3526.2	3032.4	2608.6	2237.2	1900.7	1581.8	1284.6	1013.7	769.0
20°	4911.3	4247.1	3652.9	3132.9	2687.2	2298.3	1944.4	1621.1	1315.2	1035.6	786.5
17.5°	5086.1	4391.3	3766.5	3224.7	2752.8	2350.8	1988.1	1651.7	1341.4	1053.0	799.6
15°	5234.6	4518.0	3867.0	3303.3	2813.9	2394.5	2023.1	1682.2	1363.3	1070.5	808.4
12.5°	5365.7	4627.3	3954.4	3368.9	2862.0	2433.8	2058.0	1708.5	1385.1	1083.6	821.5
10°	5470.6	4714.7	4024.3	3425.7	2905.7	2464.4	2079.9	1730.3	1398.2	1096.7	830.2
7.5°	5553.6	4784.6	4081.1	3465.0	2936.3	2490.6	2101.7	1743.4	1411.3	1105.5	843.3
5°	5614.8	4837.0	4120.4	3495.6	2962.5	2521.2	2127.9	1765.3	1428.8	1118.6	843.3
2.5°	5662.8	4876.3	4151.0	3521.8	2980.0	2521.2	2127.9	1765.3	1428.8	1118.6	843.3
0°	5662.8	4876.3	4151.0	3521.8	2980.0	2521.2	2127.9	1765.3	1428.8	1118.6	843.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.8	17.5	8.7	0.0
85°	48.1	30.6	17.5	0.0
82.5°	69.9	48.1	21.8	0.0
80°	91.8	61.2	30.6	0.0
77.5°	118.0	78.7	39.3	0.0
75°	139.8	91.8	48.1	0.0
72.5°	161.7	109.2	52.4	0.0
70°	183.5	122.3	61.2	0.0
67.5°	209.7	135.5	69.9	0.0
65°	231.6	152.9	74.3	0.0
62.5°	253.4	166.0	83.0	0.0
60°	275.3	179.1	87.4	0.0
57.5°	297.1	192.3	96.1	0.0
55°	319.0	209.7	104.9	0.0
52.5°	340.8	222.8	109.2	0.0
50°	362.7	236.0	113.6	0.0
47.5°	380.1	249.1	122.3	0.0
45°	402.0	262.2	126.7	0.0
42.5°	423.8	270.9	131.1	0.0
40°	441.3	284.0	135.5	0.0
37.5°	463.2	292.8	144.2	0.0
35°	480.6	305.9	148.6	0.0
32.5°	493.8	314.6	152.9	0.0
30°	511.2	323.3	157.3	0.0
27.5°	524.3	332.1	157.3	0.0
25°	537.4	340.8	161.7	0.0
22.5°	550.6	345.2	166.0	0.0
20°	563.7	353.9	170.4	0.0
17.5°	572.4	358.3	170.4	0.0
15°	581.1	362.7	179.1	0.0
12.5°	585.5	367.0	179.1	0.0
10°	594.2	375.8	179.1	0.0
7.5°	603.0	375.8	179.1	0.0
5°	603.0	375.8	179.1	0.0
2.5°	603.0	375.8	179.1	0.0
0°	603.0	375.8	179.1	0.0

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