

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: P623908

Luminaire Tested: **IFLD-S-SA6A-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623908
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27636.8 lumens	Max Intensity:	15349.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	145.8 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:	11958.2 lumens	Field Lumens:	19581.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

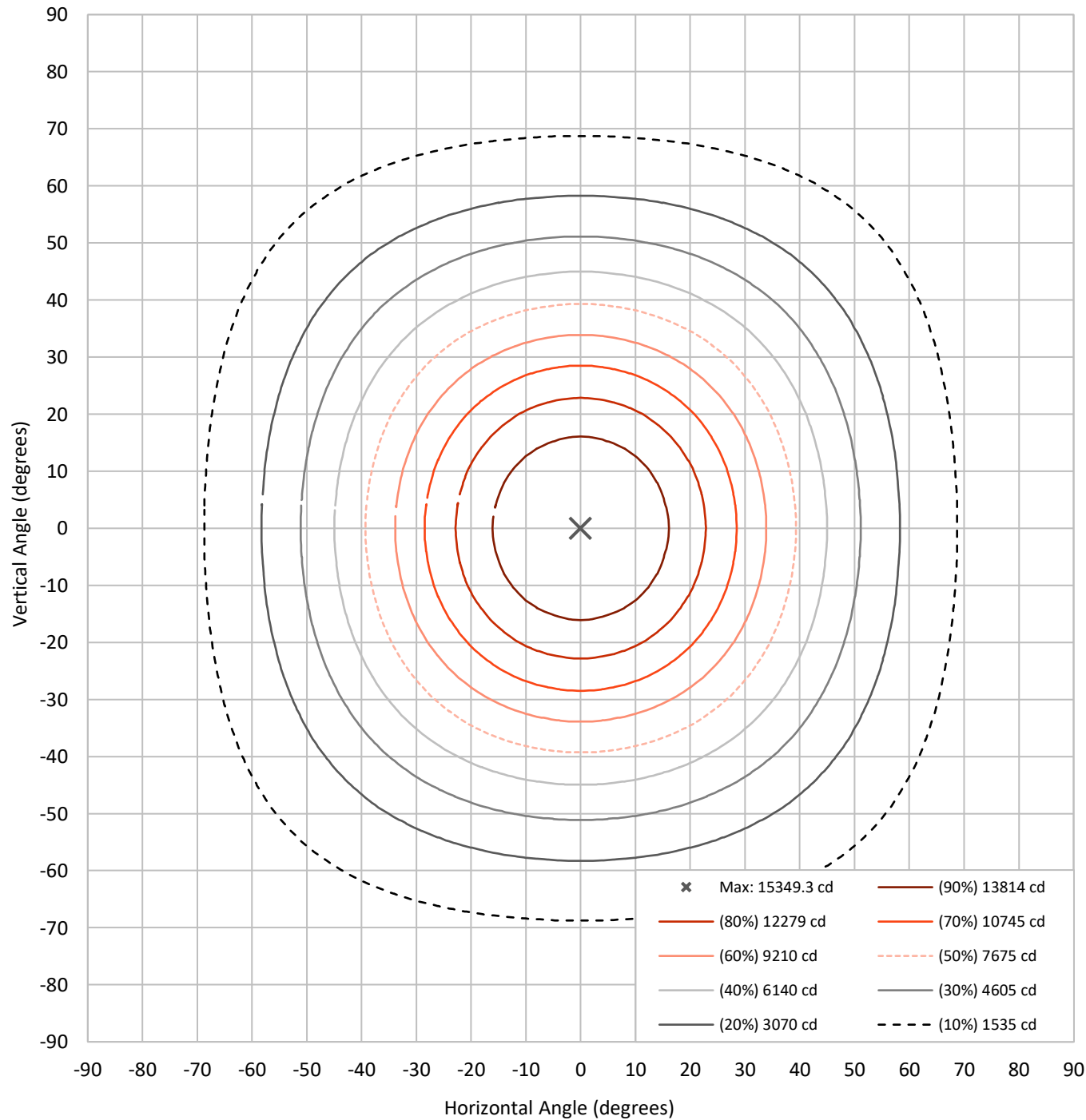
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





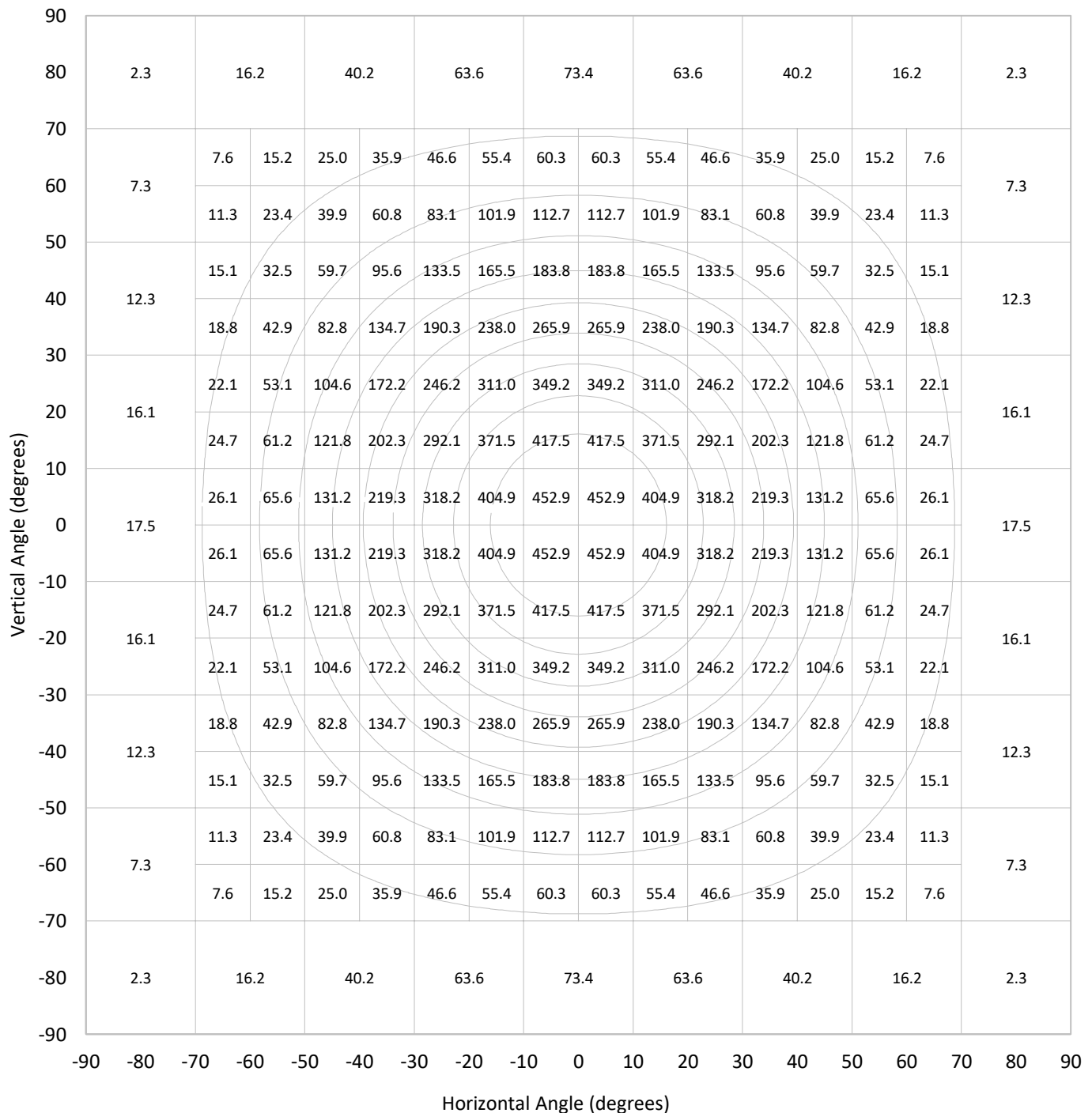
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Iso-Candela Plot



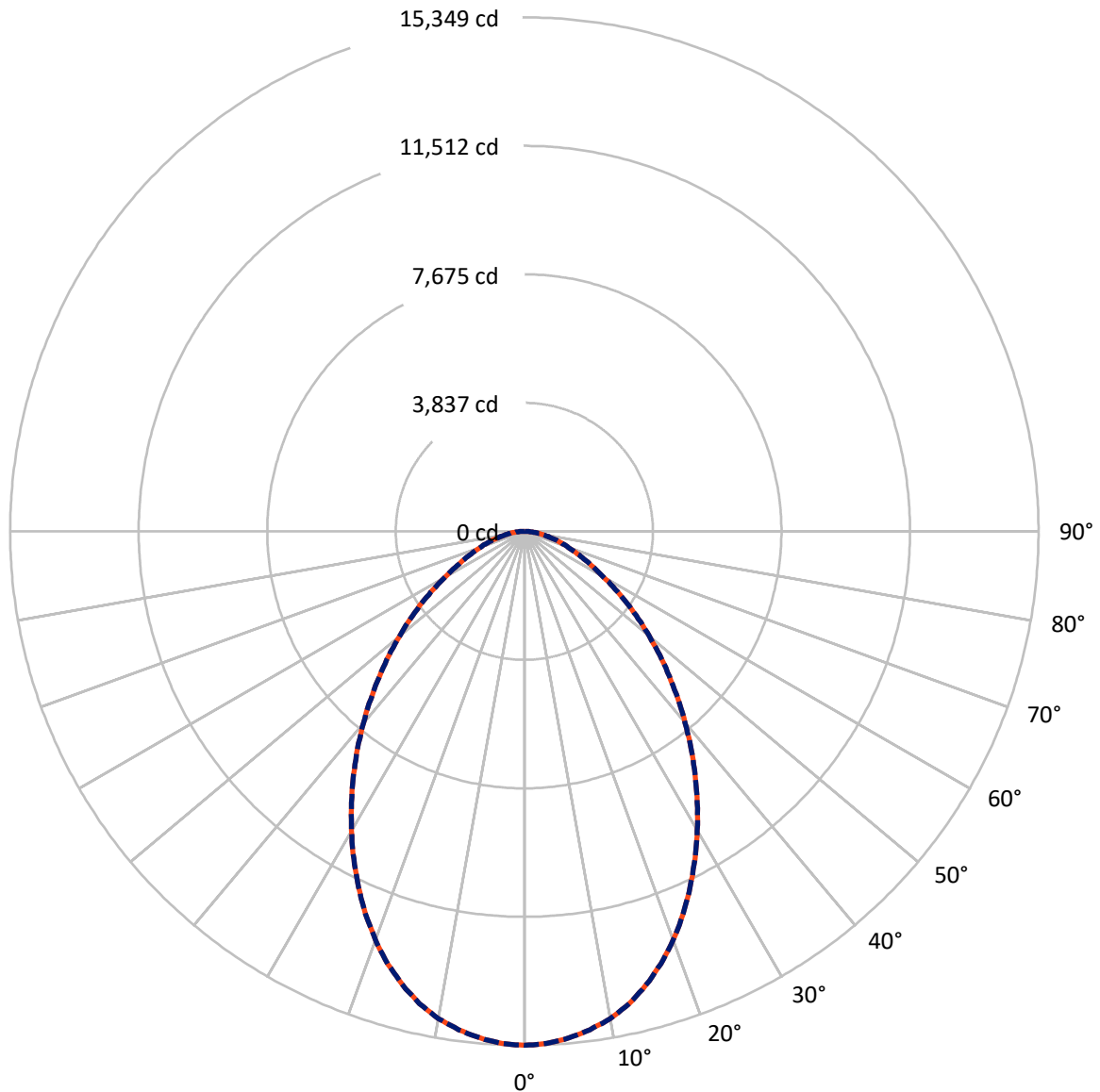
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Lumen Table



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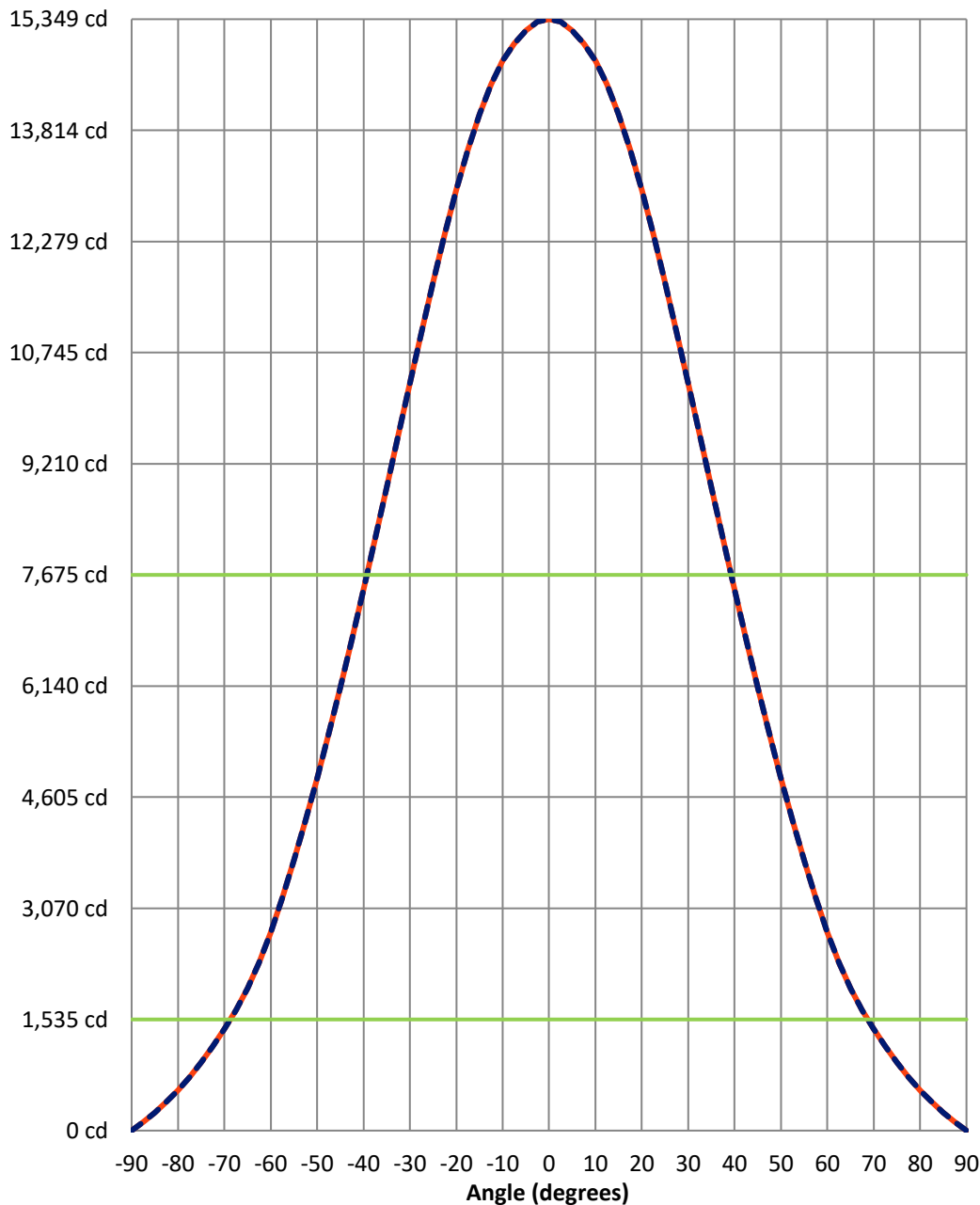
Luminous Intensity Polar Plot



— 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: 11958.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19581.1
Efficiency: 70.9%

Spill:

Lumens: 8055.7
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°	118.1	118.1	118.1	118.1	118.1	118.1	118.1	112.4	112.4	109.5	106.6
85°	247.8	247.8	247.8	247.8	247.8	242.0	239.2	236.3	233.4	227.6	224.8
82.5°	397.6	397.6	397.6	397.6	391.9	386.1	383.2	377.5	371.7	363.1	354.4
80°	556.1	556.1	556.1	556.1	547.5	541.7	533.1	527.3	518.7	507.1	495.6
77.5°	737.6	737.6	737.6	729.0	723.2	714.6	705.9	694.4	682.9	668.5	651.2
75°	942.2	942.2	942.2	930.7	922.1	913.4	899.0	884.6	867.3	847.1	824.1
72.5°	1164.1	1164.1	1164.1	1149.7	1141.0	1126.6	1109.3	1089.2	1069.0	1043.1	1014.3
70°	1403.3	1403.3	1403.3	1386.0	1371.6	1357.1	1334.1	1311.0	1282.2	1253.4	1218.8
67.5°	1662.6	1662.6	1662.6	1642.4	1625.1	1605.0	1579.0	1550.2	1515.6	1475.3	1434.9
65°	1965.1	1965.1	1953.6	1936.3	1916.1	1887.3	1855.6	1815.3	1772.1	1720.2	1665.5
62.5°	2322.4	2322.4	2305.1	2285.0	2259.0	2221.6	2178.4	2126.5	2066.0	1999.7	1933.4
60°	2737.3	2737.3	2717.2	2691.2	2653.8	2607.7	2550.1	2483.8	2408.9	2325.3	2244.6
57.5°	3215.7	3215.7	3189.7	3155.2	3109.1	3051.4	2979.4	2895.8	2800.7	2697.0	2596.2
55°	3734.3	3734.3	3702.6	3662.3	3607.5	3538.4	3451.9	3354.0	3238.7	3120.6	2990.9
52.5°	4284.7	4284.7	4247.2	4201.1	4137.7	4057.0	3959.1	3843.8	3711.3	3573.0	3420.2
50°	4863.8	4863.8	4820.6	4768.8	4696.7	4601.6	4489.3	4356.7	4209.8	4048.4	3872.6
47.5°	5483.3	5483.3	5434.4	5373.8	5287.4	5177.9	5045.4	4892.7	4725.5	4544.0	4345.2
45°	6120.1	6120.1	6065.4	5996.2	5901.1	5777.2	5630.3	5483.3	5270.1	5059.8	4829.3
42.5°	6782.9	6782.9	6719.5	6641.7	6532.2	6396.8	6229.6	6039.5	5829.1	5592.8	5342.2
40°	7471.5	7471.5	7399.5	7310.2	7189.1	7033.5	6846.3	6633.0	6396.8	6134.5	5857.9
37.5°	8174.6	8174.6	8093.9	7995.9	7860.5	7687.6	7477.3	7241.0	6975.9	6684.9	6379.5
35°	8883.4	8883.4	8794.1	8687.5	8537.6	8347.5	8119.8	7857.6	7563.7	7246.8	6903.9
32.5°	9606.7	9606.7	9508.7	9387.7	9217.7	9007.3	8756.6	8471.4	8174.6	7805.8	7431.2
30°	10321.2	10321.2	10214.6	10082.1	9900.6	9670.0	9396.3	9082.2	8733.6	8356.1	7952.7
27.5°	11024.3	10995.5	10906.2	10765.0	10566.2	10321.2	10024.5	9684.5	9307.0	8892.1	8459.9
25°	11715.9	11684.2	11586.2	11430.6	11217.4	10949.4	10629.6	10266.5	9860.2	9422.2	8949.7
22.5°	12378.6	12344.0	12240.3	12073.2	11845.5	11554.5	11211.6	10822.6	10390.4	9920.7	9422.2
20°	12992.3	12954.9	12848.3	12672.5	12436.2	12127.9	11764.8	11347.0	10886.0	10390.4	9860.2
17.5°	13545.6	13508.1	13395.7	13214.2	12992.3	12649.4	12274.9	11834.0	11347.0	10822.6	10266.5
15°	14032.5	13992.2	13876.9	13695.4	13441.8	13119.1	12724.4	12274.9	11764.8	11211.6	10629.6
12.5°	14447.4	14407.1	14289.0	14107.4	13845.2	13522.5	13119.1	12649.4	12127.9	11554.5	10949.4
10°	14775.9	14735.6	14623.2	14450.3	14179.5	13845.2	13441.8	12992.3	12436.2	11845.5	11217.4
7.5°	15012.2	14974.7	14871.0	14698.1	14450.3	14107.4	13695.4	13214.2	12672.5	12073.2	11430.6
5°	15190.8	15147.6	15043.9	14871.0	14623.2	14289.0	13876.9	13395.7	12848.3	12240.3	11586.2
2.5°	15314.7	15262.9	15147.6	14974.7	14735.6	14407.1	13992.2	13508.1	12954.9	12344.0	11684.2
0°	15349.3	15314.7	15190.8	15012.2	14775.9	14447.4	14032.5	13545.6	12992.3	12378.6	11715.9

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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°	103.7	103.7	100.8	98.0	95.1	89.3	86.4	83.6	80.7	74.9	72.0
85°	219.0	213.2	207.5	201.7	193.1	187.3	178.6	172.9	164.2	155.6	147.0
82.5°	345.8	337.1	325.6	317.0	305.4	291.0	279.5	265.1	250.7	239.2	224.8
80°	484.1	469.7	455.3	440.9	423.6	406.3	389.0	371.7	351.5	331.4	311.2
77.5°	633.9	613.7	593.6	570.5	550.4	527.3	504.2	481.2	455.3	429.3	403.4
75°	801.0	775.1	746.3	717.5	691.5	659.8	628.1	596.5	561.9	530.2	495.6
72.5°	982.6	950.9	916.3	881.7	844.3	803.9	763.6	720.4	680.0	639.7	596.5
70°	1178.5	1141.0	1097.8	1054.6	1008.5	959.5	910.5	858.7	806.8	754.9	703.1
67.5°	1388.8	1342.7	1290.9	1239.0	1181.4	1123.8	1066.1	1005.6	942.2	878.8	818.3
65°	1613.6	1556.0	1495.5	1429.2	1362.9	1296.6	1227.5	1155.4	1083.4	1008.5	942.2
62.5°	1864.3	1792.2	1714.4	1633.8	1558.8	1478.2	1403.3	1313.9	1227.5	1143.9	1060.4
60°	2155.3	2060.2	1965.1	1864.3	1769.2	1665.5	1573.3	1475.3	1377.3	1282.2	1184.3
57.5°	2480.9	2359.9	2244.6	2123.6	1996.8	1881.6	1763.4	1645.3	1535.8	1423.4	1316.8
55°	2849.7	2702.8	2558.7	2408.9	2261.9	2117.8	1968.0	1835.5	1700.0	1573.3	1449.4
52.5°	3253.1	3086.0	2907.4	2737.3	2550.1	2371.4	2204.3	2037.2	1878.7	1726.0	1584.8
50°	3685.3	3489.4	3284.8	3077.4	2864.1	2653.8	2452.1	2256.2	2071.7	1893.1	1726.0
47.5°	4134.8	3913.0	3679.6	3443.3	3215.7	2959.2	2717.2	2495.3	2273.4	2071.7	1878.7
45°	4595.9	4345.2	4088.7	3820.8	3552.8	3276.2	3008.2	2737.3	2495.3	2256.2	2037.2
42.5°	5071.3	4788.9	4503.7	4206.9	3910.1	3607.5	3305.0	3008.2	2717.2	2452.1	2204.3
40°	5561.1	5249.9	4924.3	4601.6	4284.7	3938.9	3607.5	3276.2	2959.2	2653.8	2371.4
37.5°	6051.0	5711.0	5359.4	4996.4	4633.3	4284.7	3910.1	3552.8	3215.7	2864.1	2550.1
35°	6543.7	6169.1	5788.8	5394.0	4996.4	4601.6	4206.9	3820.8	3443.3	3077.4	2737.3
32.5°	7039.3	6630.1	6209.5	5788.8	5359.4	4924.3	4503.7	4088.7	3679.6	3284.8	2907.4
30°	7526.3	7082.5	6630.1	6169.1	5711.0	5249.9	4788.9	4345.2	3913.0	3489.4	3086.0
27.5°	8001.7	7526.3	7039.3	6543.7	6051.0	5561.1	5071.3	4595.9	4134.8	3685.3	3253.1
25°	8459.9	7952.7	7431.2	6903.9	6379.5	5857.9	5342.2	4829.3	4345.2	3872.6	3420.2
22.5°	8892.1	8356.1	7805.8	7246.8	6684.9	6134.5	5592.8	5059.8	4544.0	4048.4	3573.0
20°	9307.0	8733.6	8174.6	7563.7	6975.9	6396.8	5829.1	5270.1	4725.5	4209.8	3711.3
17.5°	9684.5	9082.2	8471.4	7857.6	7241.0	6633.0	6039.5	5483.3	4892.7	4356.7	3843.8
15°	10024.5	9396.3	8756.6	8119.8	7477.3	6846.3	6229.6	5630.3	5045.4	4489.3	3959.1
12.5°	10321.2	9670.0	9007.3	8347.5	7687.6	7033.5	6396.8	5777.2	5177.9	4601.6	4057.0
10°	10566.2	9900.6	9217.7	8537.6	7860.5	7189.1	6532.2	5901.1	5287.4	4696.7	4137.7
7.5°	10765.0	10082.1	9387.7	8687.5	7995.9	7310.2	6641.7	5996.2	5373.8	4768.8	4201.1
5°	10906.2	10214.6	9508.7	8794.1	8093.9	7399.5	6719.5	6065.4	5434.4	4820.6	4247.2
2.5°	10995.5	10321.2	9606.7	8883.4	8174.6	7471.5	6782.9	6120.1	5483.3	4863.8	4284.7
0°	11024.3	10321.2	9606.7	8883.4	8174.6	7471.5	6782.9	6120.1	5483.3	4863.8	4284.7

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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°	69.2	63.4	57.6	54.7	49.0	46.1	40.3	34.6	31.7	25.9	20.2
85°	138.3	126.8	118.1	109.5	100.8	89.3	80.7	72.0	60.5	51.9	40.3
82.5°	210.3	195.9	181.5	167.1	152.7	138.3	121.0	106.6	92.2	77.8	60.5
80°	291.0	268.0	247.8	227.6	207.5	187.3	164.2	144.1	121.0	100.8	80.7
77.5°	374.6	348.7	319.8	291.0	262.2	236.3	207.5	181.5	155.6	126.8	100.8
75°	463.9	429.3	397.6	360.2	325.6	288.1	253.6	219.0	187.3	155.6	121.0
72.5°	556.1	512.9	469.7	429.3	386.1	342.9	302.5	259.3	219.0	181.5	144.1
70°	651.2	599.3	547.5	498.5	449.5	397.6	351.5	302.5	253.6	207.5	164.2
67.5°	752.1	691.5	631.0	567.6	512.9	455.3	397.6	342.9	288.1	236.3	187.3
65°	861.5	789.5	714.6	648.3	576.3	512.9	449.5	386.1	325.6	262.2	207.5
62.5°	973.9	890.4	806.8	723.2	648.3	567.6	498.5	429.3	360.2	291.0	227.6
60°	1089.2	994.1	899.0	806.8	714.6	631.0	547.5	469.7	397.6	319.8	247.8
57.5°	1207.3	1100.7	994.1	890.4	789.5	691.5	599.3	512.9	429.3	348.7	268.0
55°	1328.3	1207.3	1089.2	973.9	861.5	752.1	651.2	556.1	463.9	374.6	291.0
52.5°	1449.4	1316.8	1184.3	1060.4	942.2	818.3	703.1	596.5	495.6	403.4	311.2
50°	1573.3	1423.4	1282.2	1143.9	1008.5	878.8	754.9	639.7	530.2	429.3	331.4
47.5°	1700.0	1535.8	1377.3	1227.5	1083.4	942.2	806.8	680.0	561.9	455.3	351.5
45°	1835.5	1645.3	1475.3	1313.9	1155.4	1005.6	858.7	720.4	596.5	481.2	371.7
42.5°	1968.0	1763.4	1573.3	1403.3	1227.5	1066.1	910.5	763.6	628.1	504.2	389.0
40°	2117.8	1881.6	1665.5	1478.2	1296.6	1123.8	959.5	803.9	659.8	527.3	406.3
37.5°	2261.9	1996.8	1769.2	1558.8	1362.9	1181.4	1008.5	844.3	691.5	550.4	423.6
35°	2408.9	2123.6	1864.3	1633.8	1429.2	1239.0	1054.6	881.7	717.5	570.5	440.9
32.5°	2558.7	2244.6	1965.1	1714.4	1495.5	1290.9	1097.8	916.3	746.3	593.6	455.3
30°	2702.8	2359.9	2060.2	1792.2	1556.0	1342.7	1141.0	950.9	775.1	613.7	469.7
27.5°	2849.7	2480.9	2155.3	1864.3	1613.6	1388.8	1178.5	982.6	801.0	633.9	484.1
25°	2990.9	2596.2	2244.6	1933.4	1665.5	1434.9	1218.8	1014.3	824.1	651.2	495.6
22.5°	3120.6	2697.0	2325.3	1999.7	1720.2	1475.3	1253.4	1043.1	847.1	668.5	507.1
20°	3238.7	2800.7	2408.9	2066.0	1772.1	1515.6	1282.2	1069.0	867.3	682.9	518.7
17.5°	3354.0	2895.8	2483.8	2126.5	1815.3	1550.2	1311.0	1089.2	884.6	694.4	527.3
15°	3451.9	2979.4	2550.1	2178.4	1855.6	1579.0	1334.1	1109.3	899.0	705.9	533.1
12.5°	3538.4	3051.4	2607.7	2221.6	1887.3	1605.0	1357.1	1126.6	913.4	714.6	541.7
10°	3607.5	3109.1	2653.8	2259.0	1916.1	1625.1	1371.6	1141.0	922.1	723.2	547.5
7.5°	3662.3	3155.2	2691.2	2285.0	1936.3	1642.4	1386.0	1149.7	930.7	729.0	556.1
5°	3702.6	3189.7	2717.2	2305.1	1953.6	1662.6	1403.3	1164.1	942.2	737.6	556.1
2.5°	3734.3	3215.7	2737.3	2322.4	1965.1	1662.6	1403.3	1164.1	942.2	737.6	556.1
0°	3734.3	3215.7	2737.3	2322.4	1965.1	1662.6	1403.3	1164.1	942.2	737.6	556.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.4	11.5	5.8	0.0
85°	31.7	20.2	11.5	0.0
82.5°	46.1	31.7	14.4	0.0
80°	60.5	40.3	20.2	0.0
77.5°	77.8	51.9	25.9	0.0
75°	92.2	60.5	31.7	0.0
72.5°	106.6	72.0	34.6	0.0
70°	121.0	80.7	40.3	0.0
67.5°	138.3	89.3	46.1	0.0
65°	152.7	100.8	49.0	0.0
62.5°	167.1	109.5	54.7	0.0
60°	181.5	118.1	57.6	0.0
57.5°	195.9	126.8	63.4	0.0
55°	210.3	138.3	69.2	0.0
52.5°	224.8	147.0	72.0	0.0
50°	239.2	155.6	74.9	0.0
47.5°	250.7	164.2	80.7	0.0
45°	265.1	172.9	83.6	0.0
42.5°	279.5	178.6	86.4	0.0
40°	291.0	187.3	89.3	0.0
37.5°	305.4	193.1	95.1	0.0
35°	317.0	201.7	98.0	0.0
32.5°	325.6	207.5	100.8	0.0
30°	337.1	213.2	103.7	0.0
27.5°	345.8	219.0	103.7	0.0
25°	354.4	224.8	106.6	0.0
22.5°	363.1	227.6	109.5	0.0
20°	371.7	233.4	112.4	0.0
17.5°	377.5	236.3	112.4	0.0
15°	383.2	239.2	118.1	0.0
12.5°	386.1	242.0	118.1	0.0
10°	391.9	247.8	118.1	0.0
7.5°	397.6	247.8	118.1	0.0
5°	397.6	247.8	118.1	0.0
2.5°	397.6	247.8	118.1	0.0
0°	397.6	247.8	118.1	0.0

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