

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: P624036

Luminaire Tested: **IFLD-L-SA7C-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624036
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33832.1 lumens	Max Intensity:	18790.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.7 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:	14638.8 lumens	Field Lumens:	23970.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

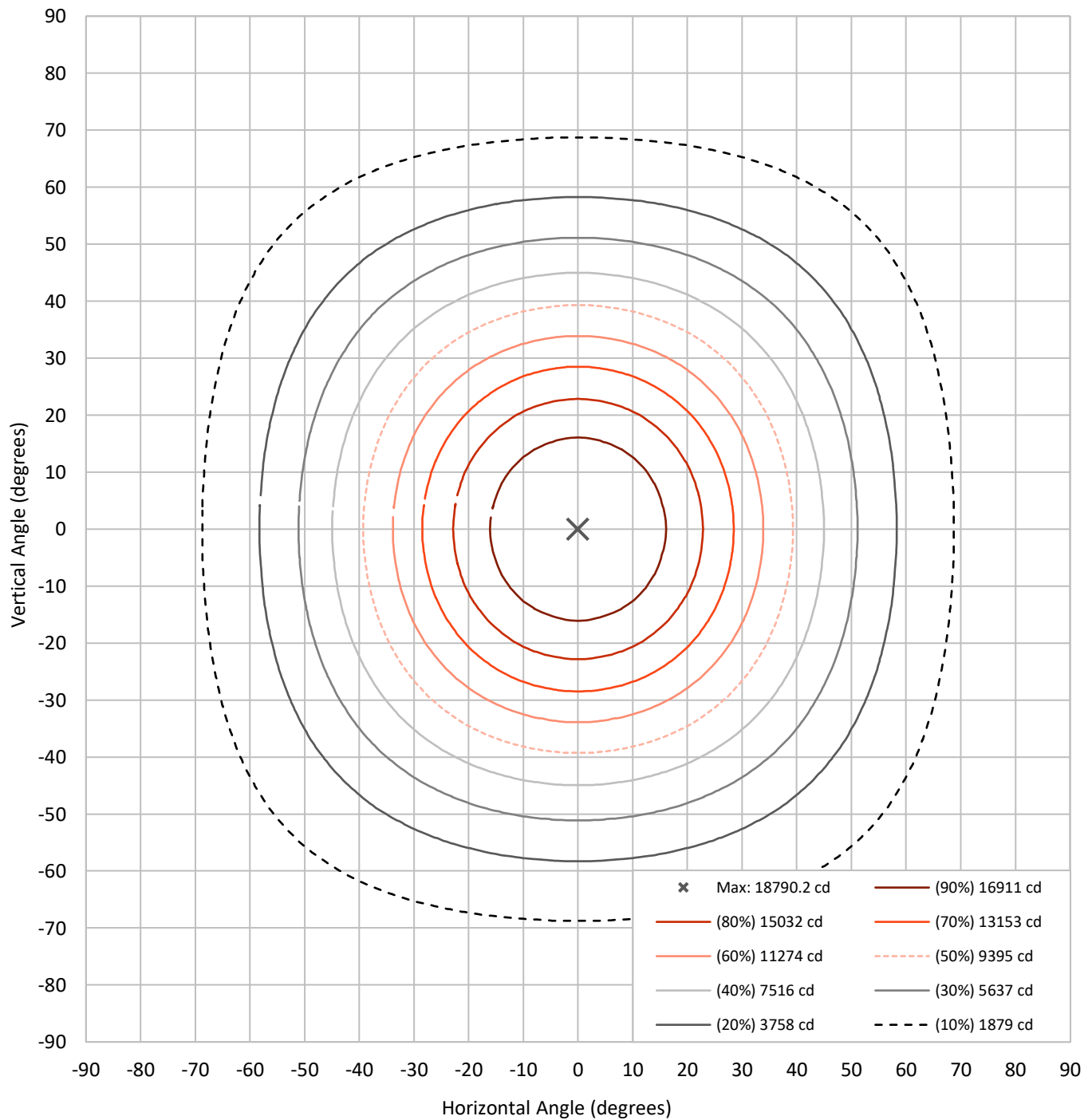
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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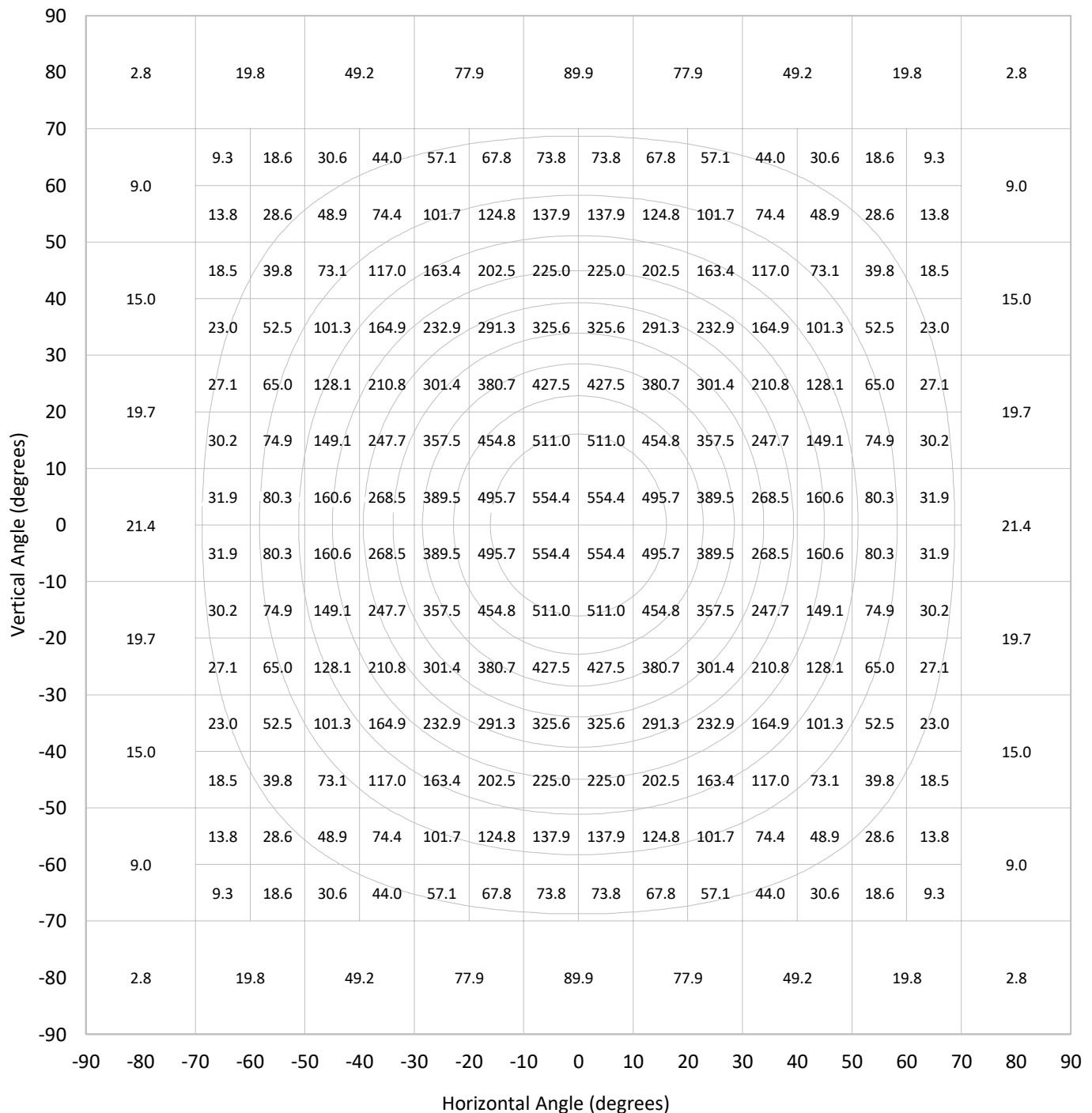
Iso-Candela Plot



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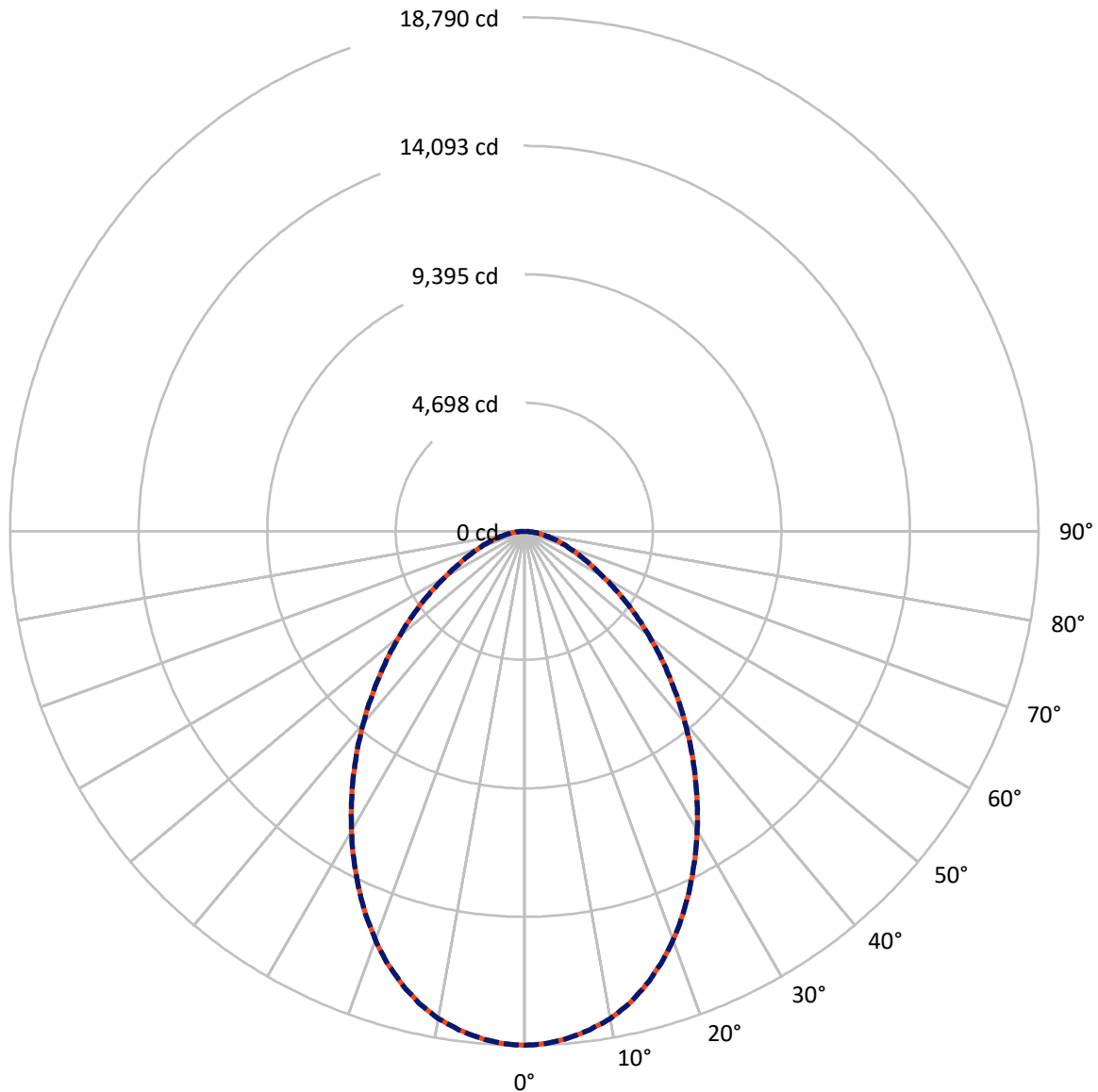
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Lumen Table



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Luminous Intensity Polar Plot

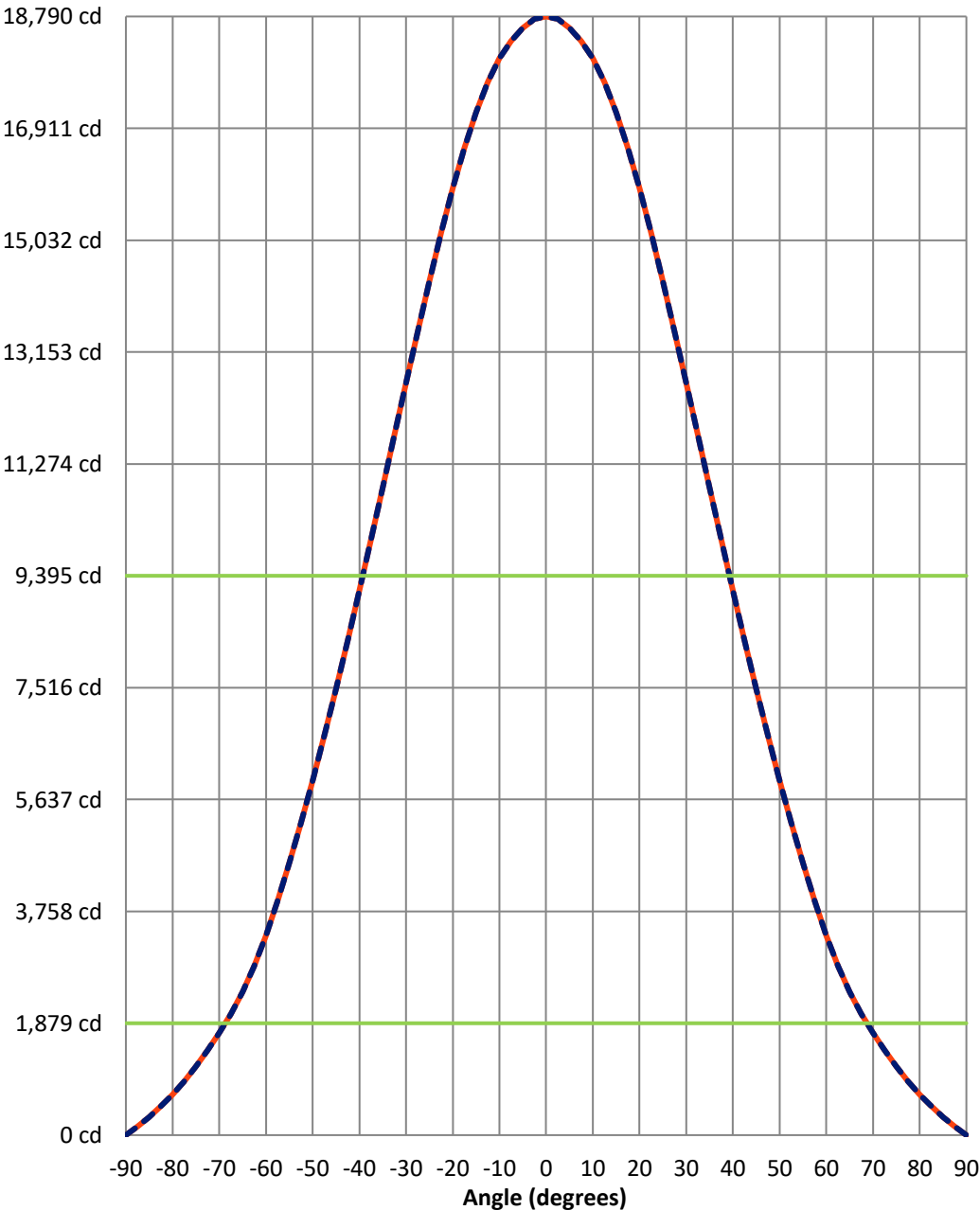


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 14638.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 23970.6
Efficiency: 70.9%

Spill:
Lumens: 9861.6
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°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	137.6	137.6	134.0	130.5
85°	303.4	303.4	303.4	303.4	303.4	296.3	292.8	289.2	285.7	278.7	275.1
82.5°	486.8	486.8	486.8	486.8	479.7	472.7	469.1	462.1	455.0	444.4	433.9
80°	680.8	680.8	680.8	680.8	670.2	663.1	652.6	645.5	634.9	620.8	606.7
77.5°	903.0	903.0	903.0	892.4	885.4	874.8	864.2	850.1	836.0	818.3	797.2
75°	1153.4	1153.4	1153.4	1139.3	1128.8	1118.2	1100.5	1082.9	1061.7	1037.0	1008.8
72.5°	1425.0	1425.0	1425.0	1407.4	1396.8	1379.2	1358.0	1333.3	1308.6	1276.9	1241.6
70°	1717.8	1717.8	1717.8	1696.7	1679.0	1661.4	1633.2	1604.9	1569.7	1534.4	1492.1
67.5°	2035.3	2035.3	2035.3	2010.6	1989.4	1964.7	1933.0	1897.7	1855.4	1806.0	1756.6
65°	2405.7	2405.7	2391.5	2370.4	2345.7	2310.4	2271.6	2222.2	2169.3	2105.8	2038.8
62.5°	2843.0	2843.0	2821.9	2797.2	2765.4	2719.6	2666.7	2603.2	2529.1	2448.0	2366.8
60°	3351.0	3351.0	3326.3	3294.5	3248.7	3192.2	3121.7	3040.6	2948.9	2846.6	2747.8
57.5°	3936.5	3936.5	3904.8	3862.4	3806.0	3735.5	3647.3	3545.0	3428.6	3301.6	3178.1
55°	4571.4	4571.4	4532.6	4483.3	4416.2	4331.6	4225.8	4105.8	3964.7	3820.1	3661.4
52.5°	5245.2	5245.2	5199.3	5142.9	5065.3	4966.5	4846.6	4705.5	4543.2	4373.9	4187.0
50°	5954.2	5954.2	5901.3	5837.8	5749.6	5633.2	5495.6	5333.3	5153.5	4955.9	4740.8
47.5°	6712.5	6712.5	6652.6	6578.5	6472.7	6338.6	6176.4	5989.4	5784.8	5562.6	5319.2
45°	7492.1	7492.1	7425.1	7340.4	7224.0	7072.3	6892.4	6712.5	6451.5	6194.0	5911.8
42.5°	8303.4	8303.4	8225.8	8130.5	7996.5	7830.7	7626.1	7393.3	7135.8	6846.6	6539.7
40°	9146.4	9146.4	9058.2	8948.9	8800.7	8610.3	8381.0	8120.0	7830.7	7509.7	7171.1
37.5°	10007.1	10007.1	9908.3	9788.4	9622.6	9411.0	9153.5	8864.2	8539.7	8183.4	7809.5
35°	10874.8	10874.8	10765.5	10635.0	10451.5	10218.7	9940.1	9619.1	9259.3	8871.3	8451.5
32.5°	11760.2	11760.2	11640.2	11492.1	11284.0	11026.5	10719.6	10370.4	10007.1	9555.6	9097.0
30°	12635.0	12635.0	12504.4	12342.2	12120.0	11837.8	11502.7	11118.2	10691.4	10229.3	9735.5
27.5°	13495.6	13460.4	13351.0	13178.2	12934.8	12635.0	12271.6	11855.4	11393.3	10885.4	10356.3
25°	14342.2	14303.4	14183.5	13993.0	13732.0	13403.9	13012.4	12567.9	12070.6	11534.4	10955.9
22.5°	15153.5	15111.2	14984.2	14779.6	14500.9	14144.7	13724.9	13248.7	12719.6	12144.7	11534.4
20°	15904.8	15859.0	15728.4	15513.3	15224.0	14846.6	14402.2	13890.7	13326.3	12719.6	12070.6
17.5°	16582.1	16536.2	16398.6	16176.4	15904.8	15485.1	15026.5	14486.8	13890.7	13248.7	12567.9
15°	17178.2	17128.8	16987.7	16765.5	16455.1	16060.0	15576.8	15026.5	14402.2	13724.9	13012.4
12.5°	17686.1	17636.7	17492.1	17269.9	16948.9	16553.8	16060.0	15485.1	14846.6	14144.7	13403.9
10°	18088.2	18038.9	17901.3	17689.6	17358.1	16948.9	16455.1	15904.8	15224.0	14500.9	13732.0
7.5°	18377.5	18331.6	18204.6	17993.0	17689.6	17269.9	16765.5	16176.4	15513.3	14779.6	13993.0
5°	18596.2	18543.3	18416.3	18204.6	17901.3	17492.1	16987.7	16398.6	15728.4	14984.2	14183.5
2.5°	18747.9	18684.4	18543.3	18331.6	18038.9	17636.7	17128.8	16536.2	15859.0	15111.2	14303.4
0°	18790.2	18747.9	18596.2	18377.5	18088.2	17686.1	17178.2	16582.1	15904.8	15153.5	14342.2

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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°	127.0	127.0	123.5	119.9	116.4	109.3	105.8	102.3	98.8	91.7	88.2
85°	268.1	261.0	254.0	246.9	236.3	229.3	218.7	211.6	201.1	190.5	179.9
82.5°	423.3	412.7	398.6	388.0	373.9	356.3	342.2	324.5	306.9	292.8	275.1
80°	592.6	575.0	557.3	539.7	518.5	497.4	476.2	455.0	430.3	405.6	381.0
77.5°	776.0	751.3	726.6	698.4	673.7	645.5	617.3	589.1	557.3	525.6	493.8
75°	980.6	948.9	913.6	878.3	846.6	807.8	769.0	730.2	687.8	649.0	606.7
72.5°	1202.8	1164.0	1121.7	1079.4	1033.5	984.1	934.7	881.8	832.5	783.1	730.2
70°	1442.7	1396.8	1343.9	1291.0	1234.6	1174.6	1114.6	1051.1	987.7	924.2	860.7
67.5°	1700.2	1643.7	1580.3	1516.8	1446.2	1375.7	1305.1	1231.0	1153.4	1075.8	1001.8
65°	1975.3	1904.8	1830.7	1749.6	1668.4	1587.3	1502.6	1414.5	1326.3	1234.6	1153.4
62.5°	2282.2	2194.0	2098.8	2000.0	1908.3	1809.5	1717.8	1608.5	1502.6	1400.4	1298.1
60°	2638.5	2522.1	2405.7	2282.2	2165.8	2038.8	1925.9	1806.0	1686.1	1569.7	1449.7
57.5°	3037.0	2888.9	2747.8	2599.7	2444.5	2303.4	2158.7	2014.1	1880.1	1742.5	1612.0
55°	3488.5	3308.7	3132.3	2948.9	2769.0	2592.6	2409.2	2246.9	2081.1	1925.9	1774.3
52.5°	3982.4	3777.8	3559.1	3351.0	3121.7	2903.0	2698.4	2493.8	2299.8	2112.9	1940.0
50°	4511.5	4271.6	4021.2	3767.2	3506.2	3248.7	3001.8	2761.9	2536.2	2317.5	2112.9
47.5°	5061.7	4790.1	4504.4	4215.2	3936.5	3622.6	3326.3	3054.7	2783.1	2536.2	2299.8
45°	5626.1	5319.2	5005.3	4677.3	4349.2	4010.6	3682.6	3351.0	3054.7	2761.9	2493.8
42.5°	6208.1	5862.5	5513.2	5149.9	4786.6	4416.2	4045.9	3682.6	3326.3	3001.8	2698.4
40°	6807.8	6426.8	6028.2	5633.2	5245.2	4821.9	4416.2	4010.6	3622.6	3248.7	2903.0
37.5°	7407.4	6991.2	6560.9	6116.4	5672.0	5245.2	4786.6	4349.2	3936.5	3506.2	3121.7
35°	8010.6	7552.1	7086.4	6603.2	6116.4	5633.2	5149.9	4677.3	4215.2	3767.2	3351.0
32.5°	8617.3	8116.4	7601.4	7086.4	6560.9	6028.2	5513.2	5005.3	4504.4	4021.2	3559.1
30°	9213.4	8670.2	8116.4	7552.1	6991.2	6426.8	5862.5	5319.2	4790.1	4271.6	3777.8
27.5°	9795.4	9213.4	8617.3	8010.6	7407.4	6807.8	6208.1	5626.1	5061.7	4511.5	3982.4
25°	10356.3	9735.5	9097.0	8451.5	7809.5	7171.1	6539.7	5911.8	5319.2	4740.8	4187.0
22.5°	10885.4	10229.3	9555.6	8871.3	8183.4	7509.7	6846.6	6194.0	5562.6	4955.9	4373.9
20°	11393.3	10691.4	10007.1	9259.3	8539.7	7830.7	7135.8	6451.5	5784.8	5153.5	4543.2
17.5°	11855.4	11118.2	10370.4	9619.1	8864.2	8120.0	7393.3	6712.5	5989.4	5333.3	4705.5
15°	12271.6	11502.7	10719.6	9940.1	9153.5	8381.0	7626.1	6892.4	6176.4	5495.6	4846.6
12.5°	12635.0	11837.8	11026.5	10218.7	9411.0	8610.3	7830.7	7072.3	6338.6	5633.2	4966.5
10°	12934.8	12120.0	11284.0	10451.5	9622.6	8800.7	7996.5	7224.0	6472.7	5749.6	5065.3
7.5°	13178.2	12342.2	11492.1	10635.0	9788.4	8948.9	8130.5	7340.4	6578.5	5837.8	5142.9
5°	13351.0	12504.4	11640.2	10765.5	9908.3	9058.2	8225.8	7425.1	6652.6	5901.3	5199.3
2.5°	13460.4	12635.0	11760.2	10874.8	10007.1	9146.4	8303.4	7492.1	6712.5	5954.2	5245.2
0°	13495.6	12635.0	11760.2	10874.8	10007.1	9146.4	8303.4	7492.1	6712.5	5954.2	5245.2

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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°	84.7	77.6	70.5	67.0	60.0	56.4	49.4	42.3	38.8	31.7	24.7
85°	169.3	155.2	144.6	134.0	123.5	109.3	98.8	88.2	74.1	63.5	49.4
82.5°	257.5	239.9	222.2	204.6	186.9	169.3	148.1	130.5	112.9	95.2	74.1
80°	356.3	328.0	303.4	278.7	254.0	229.3	201.1	176.4	148.1	123.5	98.8
77.5°	458.6	426.8	391.5	356.3	321.0	289.2	254.0	222.2	190.5	155.2	123.5
75°	567.9	525.6	486.8	440.9	398.6	352.7	310.4	268.1	229.3	190.5	148.1
72.5°	680.8	627.9	575.0	525.6	472.7	419.8	370.4	317.5	268.1	222.2	176.4
70°	797.2	733.7	670.2	610.2	550.3	486.8	430.3	370.4	310.4	254.0	201.1
67.5°	920.6	846.6	772.5	694.9	627.9	557.3	486.8	419.8	352.7	289.2	229.3
65°	1054.7	966.5	874.8	793.7	705.5	627.9	550.3	472.7	398.6	321.0	254.0
62.5°	1192.2	1090.0	987.7	885.4	793.7	694.9	610.2	525.6	440.9	356.3	278.7
60°	1333.3	1216.9	1100.5	987.7	874.8	772.5	670.2	575.0	486.8	391.5	303.4
57.5°	1478.0	1347.4	1216.9	1090.0	966.5	846.6	733.7	627.9	525.6	426.8	328.0
55°	1626.1	1478.0	1333.3	1192.2	1054.7	920.6	797.2	680.8	567.9	458.6	356.3
52.5°	1774.3	1612.0	1449.7	1298.1	1153.4	1001.8	860.7	730.2	606.7	493.8	381.0
50°	1925.9	1742.5	1569.7	1400.4	1234.6	1075.8	924.2	783.1	649.0	525.6	405.6
47.5°	2081.1	1880.1	1686.1	1502.6	1326.3	1153.4	987.7	832.5	687.8	557.3	430.3
45°	2246.9	2014.1	1806.0	1608.5	1414.5	1231.0	1051.1	881.8	730.2	589.1	455.0
42.5°	2409.2	2158.7	1925.9	1717.8	1502.6	1305.1	1114.6	934.7	769.0	617.3	476.2
40°	2592.6	2303.4	2038.8	1809.5	1587.3	1375.7	1174.6	984.1	807.8	645.5	497.4
37.5°	2769.0	2444.5	2165.8	1908.3	1668.4	1446.2	1234.6	1033.5	846.6	673.7	518.5
35°	2948.9	2599.7	2282.2	2000.0	1749.6	1516.8	1291.0	1079.4	878.3	698.4	539.7
32.5°	3132.3	2747.8	2405.7	2098.8	1830.7	1580.3	1343.9	1121.7	913.6	726.6	557.3
30°	3308.7	2888.9	2522.1	2194.0	1904.8	1643.7	1396.8	1164.0	948.9	751.3	575.0
27.5°	3488.5	3037.0	2638.5	2282.2	1975.3	1700.2	1442.7	1202.8	980.6	776.0	592.6
25°	3661.4	3178.1	2747.8	2366.8	2038.8	1756.6	1492.1	1241.6	1008.8	797.2	606.7
22.5°	3820.1	3301.6	2846.6	2448.0	2105.8	1806.0	1534.4	1276.9	1037.0	818.3	620.8
20°	3964.7	3428.6	2948.9	2529.1	2169.3	1855.4	1569.7	1308.6	1061.7	836.0	634.9
17.5°	4105.8	3545.0	3040.6	2603.2	2222.2	1897.7	1604.9	1333.3	1082.9	850.1	645.5
15°	4225.8	3647.3	3121.7	2666.7	2271.6	1933.0	1633.2	1358.0	1100.5	864.2	652.6
12.5°	4331.6	3735.5	3192.2	2719.6	2310.4	1964.7	1661.4	1379.2	1118.2	874.8	663.1
10°	4416.2	3806.0	3248.7	2765.4	2345.7	1989.4	1679.0	1396.8	1128.8	885.4	670.2
7.5°	4483.3	3862.4	3294.5	2797.2	2370.4	2010.6	1696.7	1407.4	1139.3	892.4	680.8
5°	4532.6	3904.8	3326.3	2821.9	2391.5	2035.3	1717.8	1425.0	1153.4	903.0	680.8
2.5°	4571.4	3936.5	3351.0	2843.0	2405.7	2035.3	1717.8	1425.0	1153.4	903.0	680.8
0°	4571.4	3936.5	3351.0	2843.0	2405.7	2035.3	1717.8	1425.0	1153.4	903.0	680.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.6	14.1	7.1	0.0
85°	38.8	24.7	14.1	0.0
82.5°	56.4	38.8	17.6	0.0
80°	74.1	49.4	24.7	0.0
77.5°	95.2	63.5	31.7	0.0
75°	112.9	74.1	38.8	0.0
72.5°	130.5	88.2	42.3	0.0
70°	148.1	98.8	49.4	0.0
67.5°	169.3	109.3	56.4	0.0
65°	186.9	123.5	60.0	0.0
62.5°	204.6	134.0	67.0	0.0
60°	222.2	144.6	70.5	0.0
57.5°	239.9	155.2	77.6	0.0
55°	257.5	169.3	84.7	0.0
52.5°	275.1	179.9	88.2	0.0
50°	292.8	190.5	91.7	0.0
47.5°	306.9	201.1	98.8	0.0
45°	324.5	211.6	102.3	0.0
42.5°	342.2	218.7	105.8	0.0
40°	356.3	229.3	109.3	0.0
37.5°	373.9	236.3	116.4	0.0
35°	388.0	246.9	119.9	0.0
32.5°	398.6	254.0	123.5	0.0
30°	412.7	261.0	127.0	0.0
27.5°	423.3	268.1	127.0	0.0
25°	433.9	275.1	130.5	0.0
22.5°	444.4	278.7	134.0	0.0
20°	455.0	285.7	137.6	0.0
17.5°	462.1	289.2	137.6	0.0
15°	469.1	292.8	144.6	0.0
12.5°	472.7	296.3	144.6	0.0
10°	479.7	303.4	144.6	0.0
7.5°	486.8	303.4	144.6	0.0
5°	486.8	303.4	144.6	0.0
2.5°	486.8	303.4	144.6	0.0
0°	486.8	303.4	144.6	0.0

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