

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: P624063

Luminaire Tested: **IFLD-L-SA7A-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624063
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

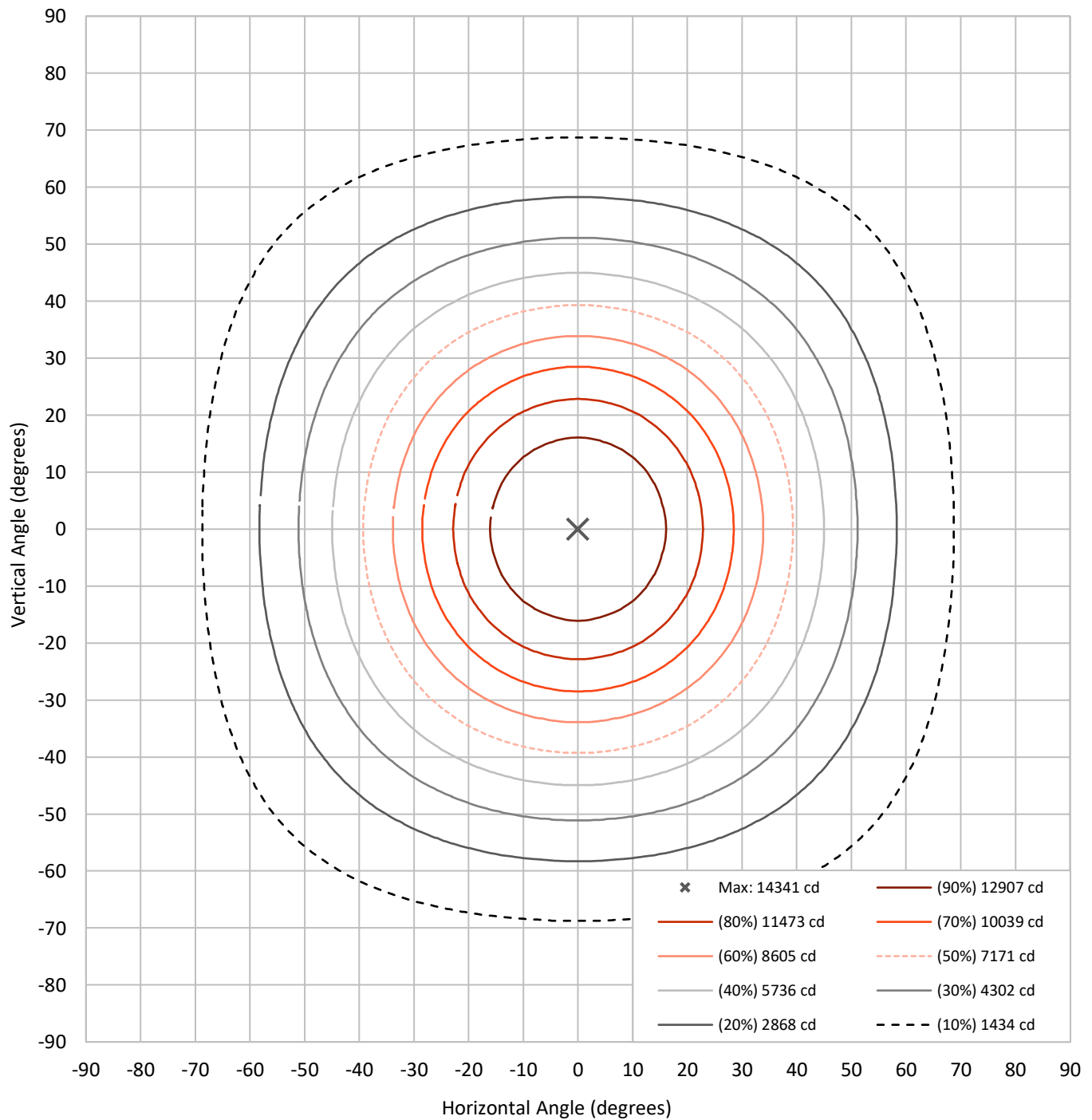
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25821.2 lumens	Max Intensity:	14341 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.7 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:	11172.6 lumens	Field Lumens:	18294.7 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		



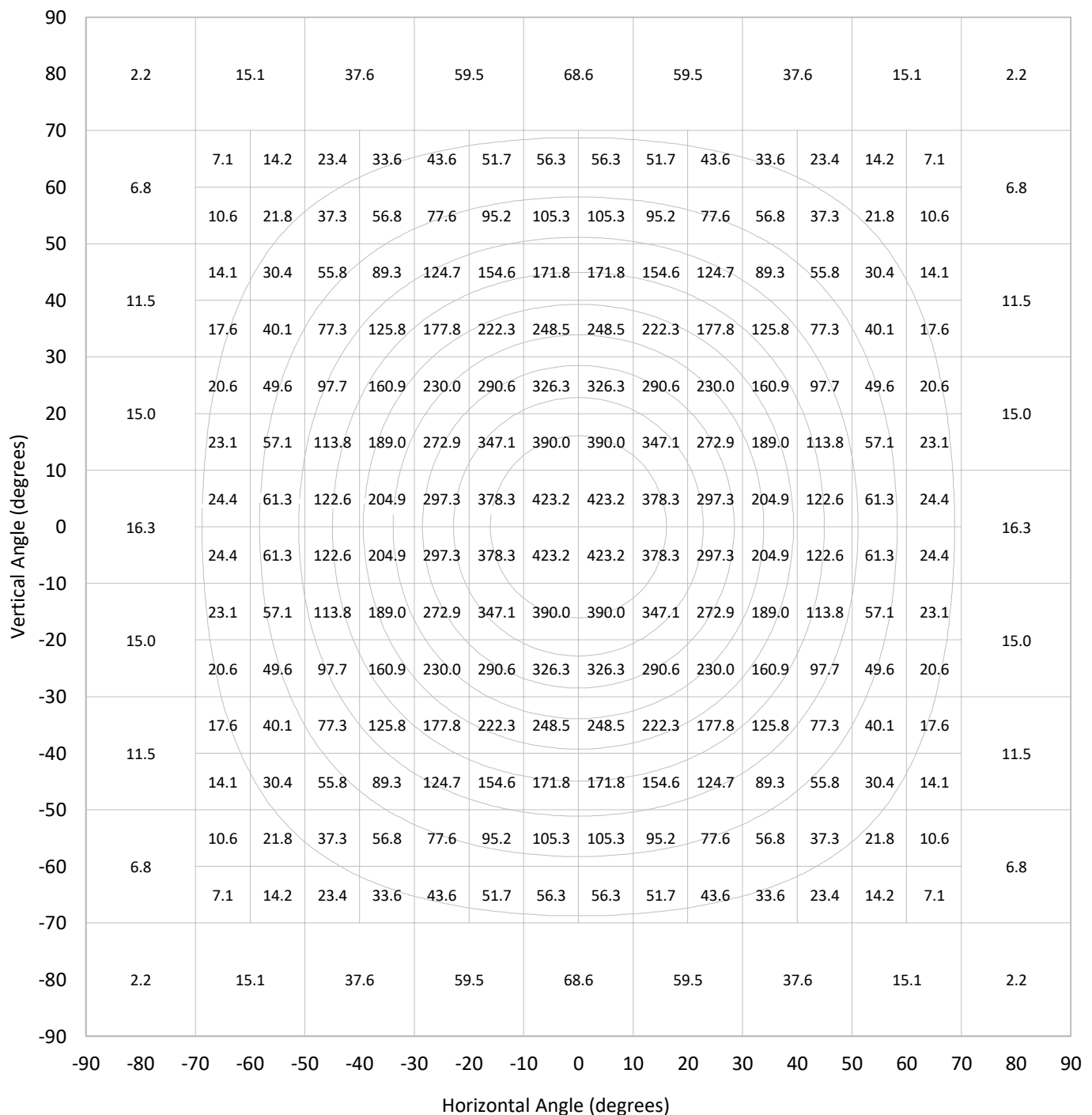
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Iso-Candela Plot



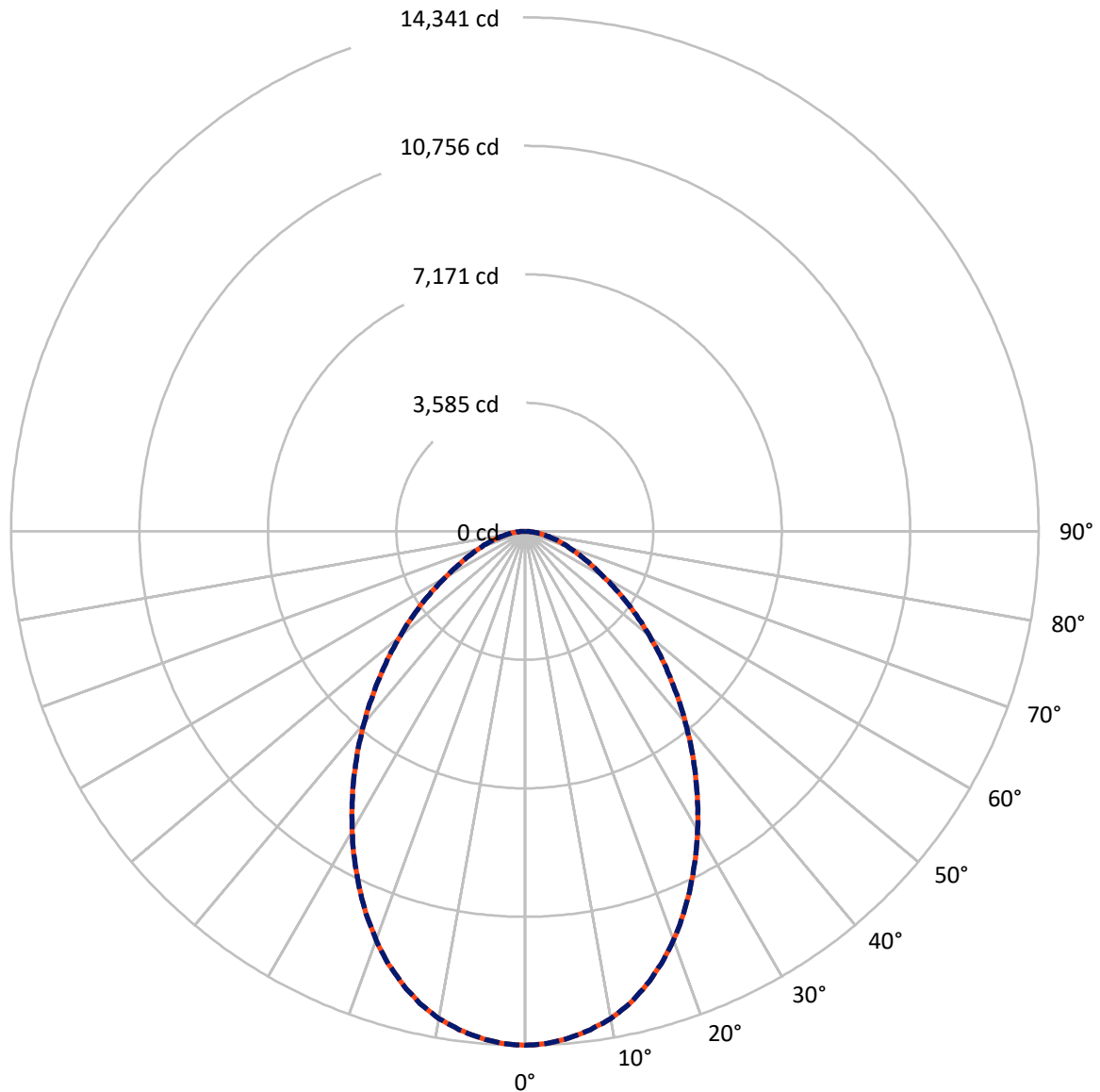
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Lumen Table



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Luminous Intensity Polar Plot

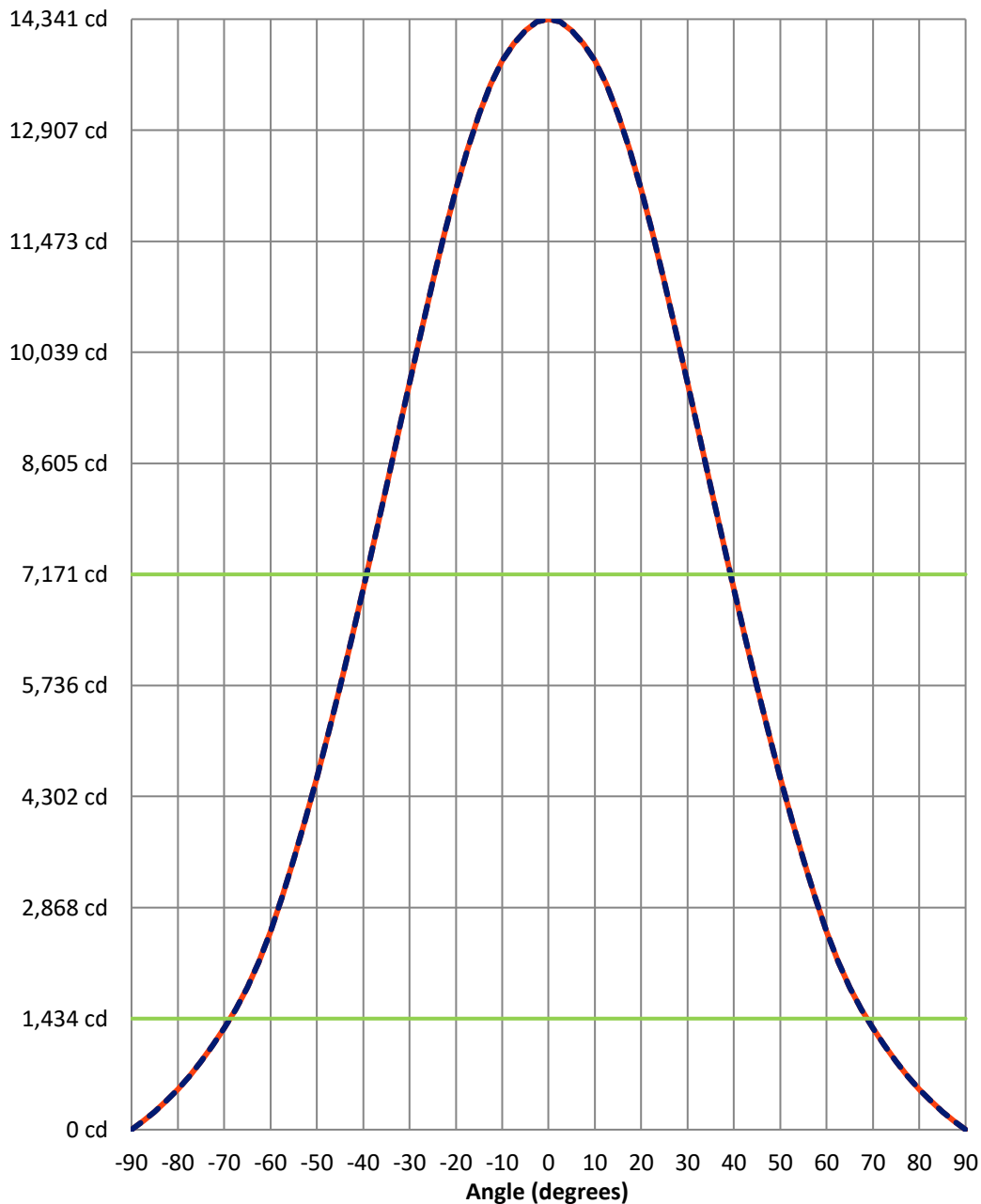


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11172.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 18294.7
Efficiency: 70.9%

Spill:

Lumens: 7526.5
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°	110.4	110.4	110.4	110.4	110.4	110.4	110.4	105.0	105.0	102.3	99.6
85°	231.5	231.5	231.5	231.5	231.5	226.1	223.4	220.8	218.1	212.7	210.0
82.5°	371.5	371.5	371.5	371.5	366.1	360.7	358.1	352.7	347.3	339.2	331.1
80°	519.6	519.6	519.6	519.6	511.5	506.1	498.0	492.7	484.6	473.8	463.0
77.5°	689.2	689.2	689.2	681.1	675.7	667.6	659.6	648.8	638.0	624.6	608.4
75°	880.3	880.3	880.3	869.6	861.5	853.4	839.9	826.5	810.3	791.5	769.9
72.5°	1087.6	1087.6	1087.6	1074.2	1066.1	1052.6	1036.5	1017.6	998.8	974.6	947.6
70°	1311.1	1311.1	1311.1	1294.9	1281.5	1268.0	1246.5	1224.9	1198.0	1171.1	1138.8
67.5°	1553.4	1553.4	1553.4	1534.5	1518.4	1499.5	1475.3	1448.4	1416.1	1378.4	1340.7
65°	1836.0	1836.0	1825.3	1809.1	1790.3	1763.3	1733.7	1696.0	1655.7	1607.2	1556.1
62.5°	2169.9	2169.9	2153.7	2134.9	2110.6	2075.6	2035.2	1986.8	1930.3	1868.3	1806.4
60°	2557.5	2557.5	2538.7	2514.4	2479.5	2436.4	2382.5	2320.6	2250.6	2172.5	2097.2
57.5°	3004.4	3004.4	2980.2	2947.9	2904.8	2851.0	2783.7	2705.6	2616.7	2519.8	2425.6
55°	3489.0	3489.0	3459.4	3421.7	3370.5	3305.9	3225.2	3133.6	3026.0	2915.6	2794.4
52.5°	4003.2	4003.2	3968.2	3925.1	3865.9	3790.5	3699.0	3591.3	3467.5	3338.2	3195.6
50°	4544.3	4544.3	4503.9	4455.5	4388.2	4299.3	4194.3	4070.5	3933.2	3782.4	3618.2
47.5°	5123.1	5123.1	5077.4	5020.8	4940.1	4837.8	4713.9	4571.2	4415.1	4245.5	4059.7
45°	5718.1	5718.1	5666.9	5602.3	5513.5	5397.7	5260.4	5123.1	4923.9	4727.4	4512.0
42.5°	6337.3	6337.3	6278.0	6205.4	6103.1	5976.5	5820.4	5642.7	5446.2	5225.4	4991.2
40°	6980.7	6980.7	6913.4	6829.9	6716.9	6571.5	6396.5	6197.3	5976.5	5731.5	5473.1
37.5°	7637.6	7637.6	7562.2	7470.7	7344.1	7182.6	6986.1	6765.3	6517.6	6245.7	5960.4
35°	8299.8	8299.8	8216.4	8116.8	7976.8	7799.1	7586.4	7341.4	7066.8	6770.7	6450.3
32.5°	8975.6	8975.6	8884.0	8771.0	8612.1	8415.6	8181.4	7914.9	7637.6	7293.0	6943.0
30°	9643.2	9643.2	9543.6	9419.8	9250.2	9034.8	8779.0	8485.6	8159.8	7807.2	7430.3
27.5°	10300.1	10273.2	10189.7	10057.8	9872.0	9643.2	9365.9	9048.2	8695.6	8307.9	7904.1
25°	10946.2	10916.6	10825.0	10679.7	10480.5	10230.1	9931.3	9592.1	9212.5	8803.3	8361.8
22.5°	11565.4	11533.1	11436.2	11280.0	11067.3	10795.4	10475.1	10111.6	9707.8	9269.0	8803.3
20°	12138.8	12103.8	12004.2	11840.0	11619.2	11331.2	10992.0	10601.6	10170.9	9707.8	9212.5
17.5°	12655.7	12620.7	12515.7	12346.1	12138.8	11818.4	11468.5	11056.6	10601.6	10111.6	9592.1
15°	13110.7	13073.0	12965.3	12795.7	12558.8	12257.3	11888.4	11468.5	10992.0	10475.1	9931.3
12.5°	13498.3	13460.6	13350.3	13180.7	12935.7	12634.2	12257.3	11818.4	11331.2	10795.4	10230.1
10°	13805.2	13767.5	13662.6	13501.0	13248.0	12935.7	12558.8	12138.8	11619.2	11067.3	10480.5
7.5°	14026.0	13991.0	13894.1	13732.5	13501.0	13180.7	12795.7	12346.1	11840.0	11280.0	10679.7
5°	14192.9	14152.5	14055.6	13894.1	13662.6	13350.3	12965.3	12515.7	12004.2	11436.2	10825.0
2.5°	14308.7	14260.2	14152.5	13991.0	13767.5	13460.6	13073.0	12620.7	12103.8	11533.1	10916.6
0°	14341.0	14308.7	14192.9	14026.0	13805.2	13498.3	13110.7	12655.7	12138.8	11565.4	10946.2

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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°	96.9	96.9	94.2	91.5	88.8	83.5	80.8	78.1	75.4	70.0	67.3
85°	204.6	199.2	193.8	188.4	180.4	175.0	166.9	161.5	153.5	145.4	137.3
82.5°	323.1	315.0	304.2	296.1	285.4	271.9	261.1	247.7	234.2	223.4	210.0
80°	452.3	438.8	425.4	411.9	395.7	379.6	363.4	347.3	328.4	309.6	290.7
77.5°	592.3	573.4	554.6	533.0	514.2	492.7	471.1	449.6	425.4	401.1	376.9
75°	748.4	724.2	697.3	670.3	646.1	616.5	586.9	557.3	525.0	495.4	463.0
72.5°	918.0	888.4	856.1	823.8	788.8	751.1	713.4	673.0	635.3	597.7	557.3
70°	1101.1	1066.1	1025.7	985.3	942.2	896.5	850.7	802.3	753.8	705.3	656.9
67.5°	1297.6	1254.5	1206.1	1157.6	1103.8	1049.9	996.1	939.6	880.3	821.1	764.6
65°	1507.6	1453.7	1397.2	1335.3	1273.4	1211.5	1146.8	1079.5	1012.2	942.2	880.3
62.5°	1741.8	1674.5	1601.8	1526.4	1456.4	1381.1	1311.1	1227.6	1146.8	1068.8	990.7
60°	2013.7	1924.9	1836.0	1741.8	1653.0	1556.1	1469.9	1378.4	1286.8	1198.0	1106.5
57.5°	2317.9	2204.9	2097.2	1984.1	1865.6	1758.0	1647.6	1537.2	1434.9	1329.9	1230.3
55°	2662.5	2525.2	2390.6	2250.6	2113.3	1978.7	1838.7	1714.9	1588.4	1469.9	1354.1
52.5°	3039.4	2883.3	2716.4	2557.5	2382.5	2215.6	2059.5	1903.3	1755.3	1612.6	1480.7
50°	3443.2	3260.2	3069.0	2875.2	2676.0	2479.5	2291.0	2107.9	1935.6	1768.7	1612.6
47.5°	3863.2	3655.9	3437.8	3217.1	3004.4	2764.8	2538.7	2331.4	2124.1	1935.6	1755.3
45°	4293.9	4059.7	3820.1	3569.8	3319.4	3061.0	2810.6	2557.5	2331.4	2107.9	1903.3
42.5°	4738.1	4474.3	4207.8	3930.5	3653.2	3370.5	3087.9	2810.6	2538.7	2291.0	2059.5
40°	5195.8	4905.1	4600.8	4299.3	4003.2	3680.1	3370.5	3061.0	2764.8	2479.5	2215.6
37.5°	5653.5	5335.8	5007.4	4668.2	4328.9	4003.2	3653.2	3319.4	3004.4	2676.0	2382.5
35°	6113.8	5763.8	5408.5	5039.7	4668.2	4299.3	3930.5	3569.8	3217.1	2875.2	2557.5
32.5°	6576.9	6194.6	5801.5	5408.5	5007.4	4600.8	4207.8	3820.1	3437.8	3069.0	2716.4
30°	7031.8	6617.3	6194.6	5763.8	5335.8	4905.1	4474.3	4059.7	3655.9	3260.2	2883.3
27.5°	7476.0	7031.8	6576.9	6113.8	5653.5	5195.8	4738.1	4293.9	3863.2	3443.2	3039.4
25°	7904.1	7430.3	6943.0	6450.3	5960.4	5473.1	4991.2	4512.0	4059.7	3618.2	3195.6
22.5°	8307.9	7807.2	7293.0	6770.7	6245.7	5731.5	5225.4	4727.4	4245.5	3782.4	3338.2
20°	8695.6	8159.8	7637.6	7066.8	6517.6	5976.5	5446.2	4923.9	4415.1	3933.2	3467.5
17.5°	9048.2	8485.6	7914.9	7341.4	6765.3	6197.3	5642.7	5123.1	4571.2	4070.5	3591.3
15°	9365.9	8779.0	8181.4	7586.4	6986.1	6396.5	5820.4	5260.4	4713.9	4194.3	3699.0
12.5°	9643.2	9034.8	8415.6	7799.1	7182.6	6571.5	5976.5	5397.7	4837.8	4299.3	3790.5
10°	9872.0	9250.2	8612.1	7976.8	7344.1	6716.9	6103.1	5513.5	4940.1	4388.2	3865.9
7.5°	10057.8	9419.8	8771.0	8116.8	7470.7	6829.9	6205.4	5602.3	5020.8	4455.5	3925.1
5°	10189.7	9543.6	8884.0	8216.4	7562.2	6913.4	6278.0	5666.9	5077.4	4503.9	3968.2
2.5°	10273.2	9643.2	8975.6	8299.8	7637.6	6980.7	6337.3	5718.1	5123.1	4544.3	4003.2
0°	10300.1	9643.2	8975.6	8299.8	7637.6	6980.7	6337.3	5718.1	5123.1	4544.3	4003.2

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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°	64.6	59.2	53.8	51.2	45.8	43.1	37.7	32.3	29.6	24.2	18.8
85°	129.2	118.5	110.4	102.3	94.2	83.5	75.4	67.3	56.5	48.5	37.7
82.5°	196.5	183.1	169.6	156.1	142.7	129.2	113.1	99.6	86.1	72.7	56.5
80°	271.9	250.4	231.5	212.7	193.8	175.0	153.5	134.6	113.1	94.2	75.4
77.5°	350.0	325.7	298.8	271.9	245.0	220.8	193.8	169.6	145.4	118.5	94.2
75°	433.4	401.1	371.5	336.5	304.2	269.2	236.9	204.6	175.0	145.4	113.1
72.5°	519.6	479.2	438.8	401.1	360.7	320.4	282.7	242.3	204.6	169.6	134.6
70°	608.4	560.0	511.5	465.7	420.0	371.5	328.4	282.7	236.9	193.8	153.5
67.5°	702.6	646.1	589.6	530.3	479.2	425.4	371.5	320.4	269.2	220.8	175.0
65°	804.9	737.6	667.6	605.7	538.4	479.2	420.0	360.7	304.2	245.0	193.8
62.5°	909.9	831.9	753.8	675.7	605.7	530.3	465.7	401.1	336.5	271.9	212.7
60°	1017.6	928.8	839.9	753.8	667.6	589.6	511.5	438.8	371.5	298.8	231.5
57.5°	1128.0	1028.4	928.8	831.9	737.6	646.1	560.0	479.2	401.1	325.7	250.4
55°	1241.1	1128.0	1017.6	909.9	804.9	702.6	608.4	519.6	433.4	350.0	271.9
52.5°	1354.1	1230.3	1106.5	990.7	880.3	764.6	656.9	557.3	463.0	376.9	290.7
50°	1469.9	1329.9	1198.0	1068.8	942.2	821.1	705.3	597.7	495.4	401.1	309.6
47.5°	1588.4	1434.9	1286.8	1146.8	1012.2	880.3	753.8	635.3	525.0	425.4	328.4
45°	1714.9	1537.2	1378.4	1227.6	1079.5	939.6	802.3	673.0	557.3	449.6	347.3
42.5°	1838.7	1647.6	1469.9	1311.1	1146.8	996.1	850.7	713.4	586.9	471.1	363.4
40°	1978.7	1758.0	1556.1	1381.1	1211.5	1049.9	896.5	751.1	616.5	492.7	379.6
37.5°	2113.3	1865.6	1653.0	1456.4	1273.4	1103.8	942.2	788.8	646.1	514.2	395.7
35°	2250.6	1984.1	1741.8	1526.4	1335.3	1157.6	985.3	823.8	670.3	533.0	411.9
32.5°	2390.6	2097.2	1836.0	1601.8	1397.2	1206.1	1025.7	856.1	697.3	554.6	425.4
30°	2525.2	2204.9	1924.9	1674.5	1453.7	1254.5	1066.1	888.4	724.2	573.4	438.8
27.5°	2662.5	2317.9	2013.7	1741.8	1507.6	1297.6	1101.1	918.0	748.4	592.3	452.3
25°	2794.4	2425.6	2097.2	1806.4	1556.1	1340.7	1138.8	947.6	769.9	608.4	463.0
22.5°	2915.6	2519.8	2172.5	1868.3	1607.2	1378.4	1171.1	974.6	791.5	624.6	473.8
20°	3026.0	2616.7	2250.6	1930.3	1655.7	1416.1	1198.0	998.8	810.3	638.0	484.6
17.5°	3133.6	2705.6	2320.6	1986.8	1696.0	1448.4	1224.9	1017.6	826.5	648.8	492.7
15°	3225.2	2783.7	2382.5	2035.2	1733.7	1475.3	1246.5	1036.5	839.9	659.6	498.0
12.5°	3305.9	2851.0	2436.4	2075.6	1763.3	1499.5	1268.0	1052.6	853.4	667.6	506.1
10°	3370.5	2904.8	2479.5	2110.6	1790.3	1518.4	1281.5	1066.1	861.5	675.7	511.5
7.5°	3421.7	2947.9	2514.4	2134.9	1809.1	1534.5	1294.9	1074.2	869.6	681.1	519.6
5°	3459.4	2980.2	2538.7	2153.7	1825.3	1553.4	1311.1	1087.6	880.3	689.2	519.6
2.5°	3489.0	3004.4	2557.5	2169.9	1836.0	1553.4	1311.1	1087.6	880.3	689.2	519.6
0°	3489.0	3004.4	2557.5	2169.9	1836.0	1553.4	1311.1	1087.6	880.3	689.2	519.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.5	10.8	5.4	0.0
85°	29.6	18.8	10.8	0.0
82.5°	43.1	29.6	13.5	0.0
80°	56.5	37.7	18.8	0.0
77.5°	72.7	48.5	24.2	0.0
75°	86.1	56.5	29.6	0.0
72.5°	99.6	67.3	32.3	0.0
70°	113.1	75.4	37.7	0.0
67.5°	129.2	83.5	43.1	0.0
65°	142.7	94.2	45.8	0.0
62.5°	156.1	102.3	51.2	0.0
60°	169.6	110.4	53.8	0.0
57.5°	183.1	118.5	59.2	0.0
55°	196.5	129.2	64.6	0.0
52.5°	210.0	137.3	67.3	0.0
50°	223.4	145.4	70.0	0.0
47.5°	234.2	153.5	75.4	0.0
45°	247.7	161.5	78.1	0.0
42.5°	261.1	166.9	80.8	0.0
40°	271.9	175.0	83.5	0.0
37.5°	285.4	180.4	88.8	0.0
35°	296.1	188.4	91.5	0.0
32.5°	304.2	193.8	94.2	0.0
30°	315.0	199.2	96.9	0.0
27.5°	323.1	204.6	96.9	0.0
25°	331.1	210.0	99.6	0.0
22.5°	339.2	212.7	102.3	0.0
20°	347.3	218.1	105.0	0.0
17.5°	352.7	220.8	105.0	0.0
15°	358.1	223.4	110.4	0.0
12.5°	360.7	226.1	110.4	0.0
10°	366.1	231.5	110.4	0.0
7.5°	371.5	231.5	110.4	0.0
5°	371.5	231.5	110.4	0.0
2.5°	371.5	231.5	110.4	0.0
0°	371.5	231.5	110.4	0.0

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