

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: P624546

Luminaire Tested: **IFLD-L-SA7C-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624546
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29455.3 lumens	Max Intensity:	16359.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	79.8 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:	12745 lumens	Field Lumens:	20869.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

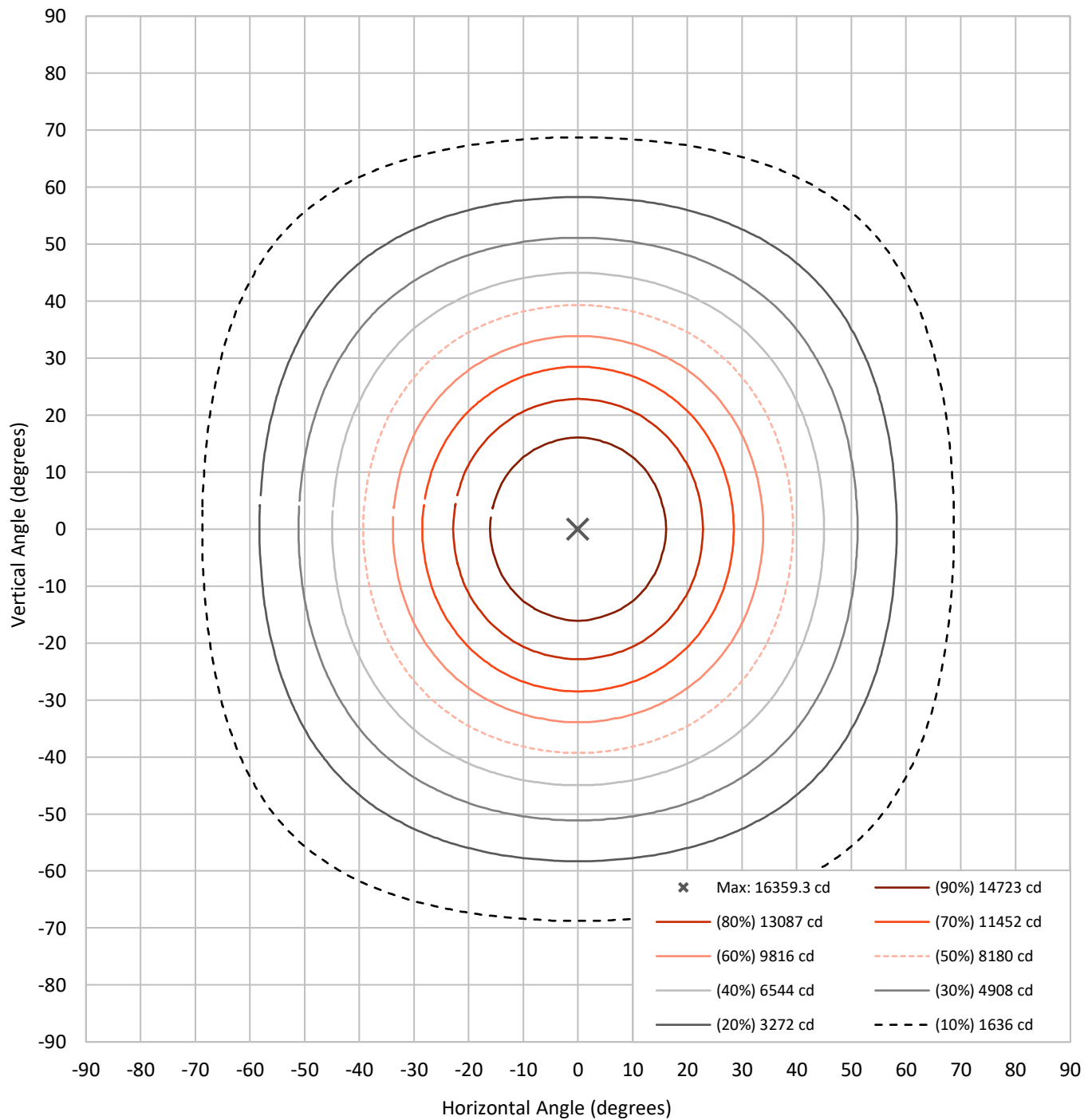
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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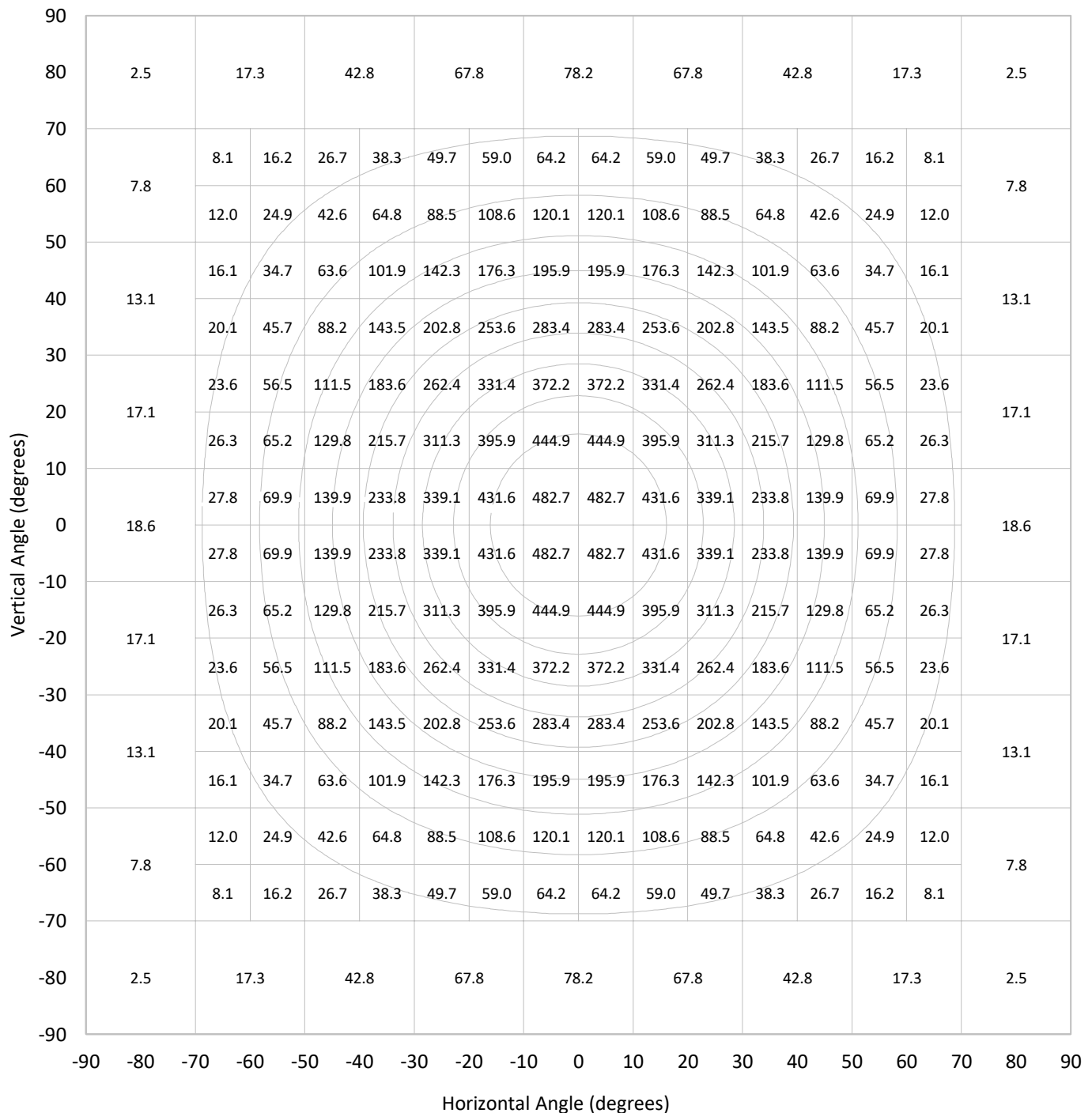
Iso-Candela Plot



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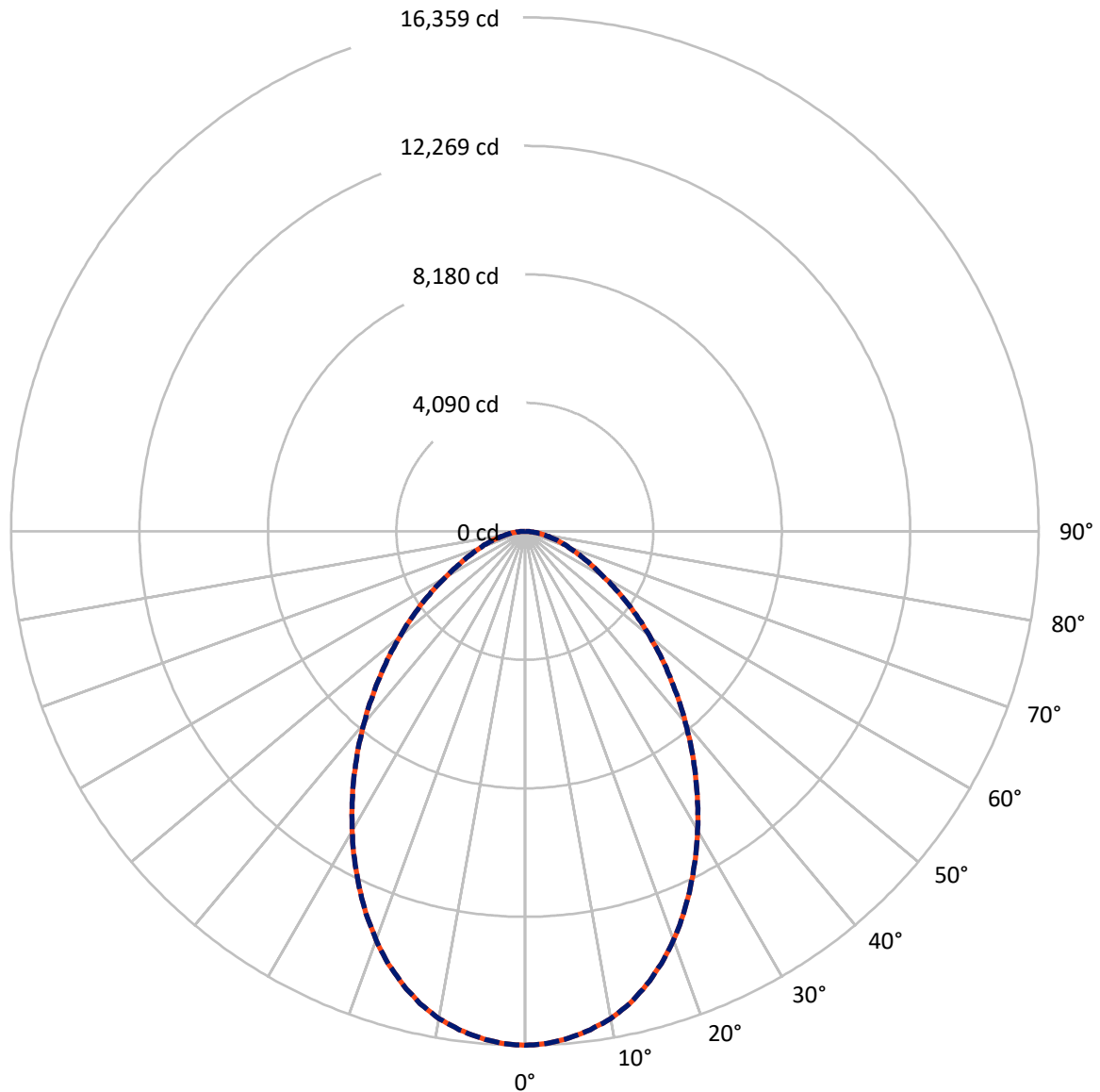
Lumen Table



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Luminous Intensity Polar Plot

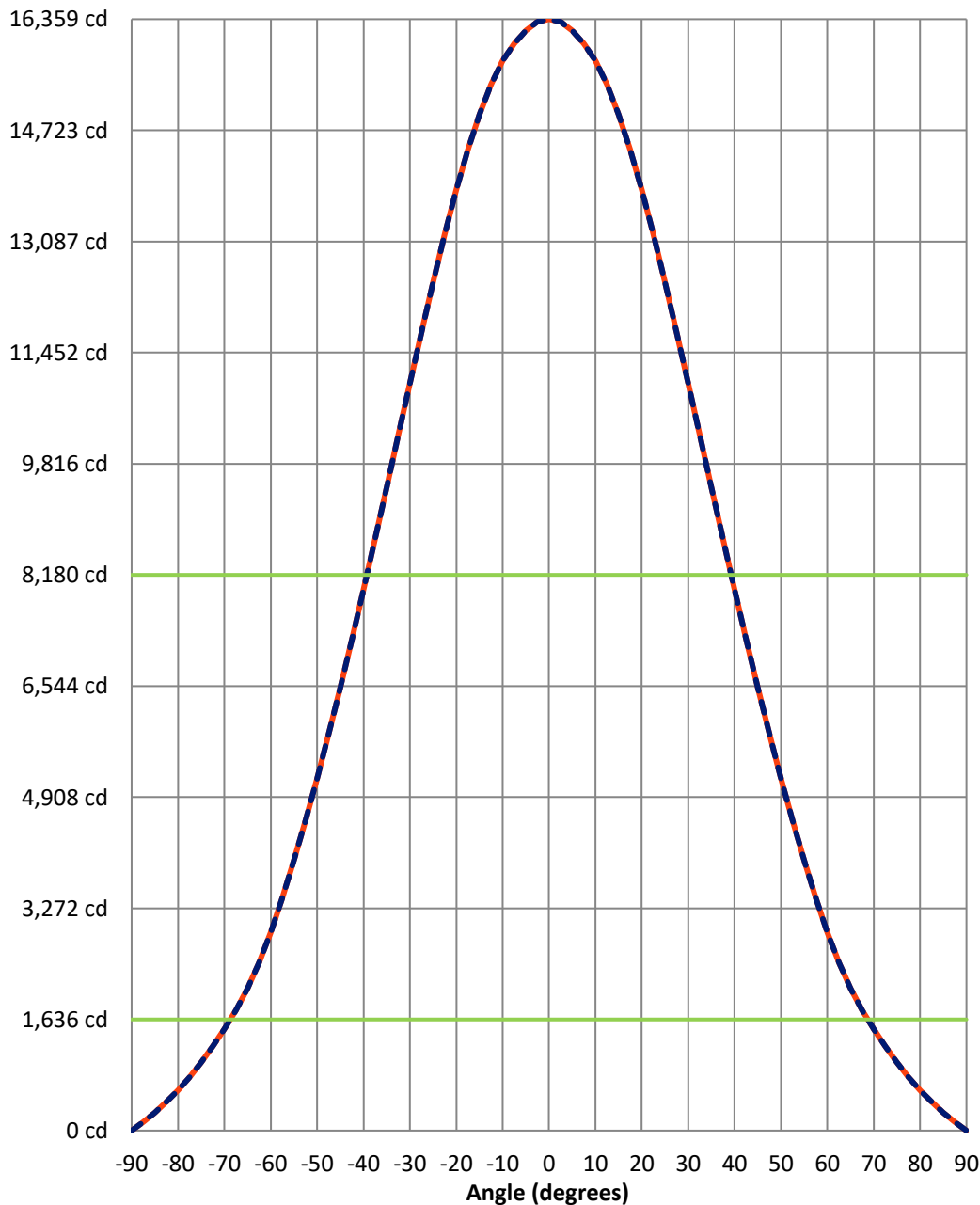


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 12745
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 20869.5
Efficiency: 70.9%

Spill:

Lumens: 8585.8
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°	125.9	125.9	125.9	125.9	125.9	125.9	125.9	119.8	119.8	116.7	113.6
85°	264.1	264.1	264.1	264.1	264.1	258.0	254.9	251.8	248.8	242.6	239.5
82.5°	423.8	423.8	423.8	423.8	417.7	411.5	408.4	402.3	396.2	386.9	377.7
80°	592.7	592.7	592.7	592.7	583.5	577.4	568.1	562.0	552.8	540.5	528.2
77.5°	786.2	786.2	786.2	777.0	770.8	761.6	752.4	740.1	727.8	712.5	694.0
75°	1004.2	1004.2	1004.2	991.9	982.7	973.5	958.2	942.8	924.4	902.9	878.3
72.5°	1240.7	1240.7	1240.7	1225.3	1216.1	1200.8	1182.3	1160.8	1139.3	1111.7	1081.0
70°	1495.6	1495.6	1495.6	1477.2	1461.8	1446.4	1421.9	1397.3	1366.6	1335.9	1299.0
67.5°	1772.0	1772.0	1772.0	1750.5	1732.1	1710.6	1682.9	1652.2	1615.4	1572.4	1529.4
65°	2094.4	2094.4	2082.1	2063.7	2042.2	2011.5	1977.7	1934.7	1888.7	1833.4	1775.0
62.5°	2475.2	2475.2	2456.8	2435.3	2407.7	2367.8	2321.7	2266.4	2201.9	2131.3	2060.7
60°	2917.5	2917.5	2896.0	2868.3	2828.4	2779.3	2717.8	2647.2	2567.4	2478.3	2392.3
57.5°	3427.3	3427.3	3399.6	3362.8	3313.6	3252.2	3175.4	3086.4	2985.0	2874.5	2767.0
55°	3980.0	3980.0	3946.3	3903.3	3844.9	3771.2	3679.1	3574.7	3451.8	3325.9	3187.7
52.5°	4566.6	4566.6	4526.7	4477.5	4410.0	4324.0	4219.6	4096.7	3955.5	3808.1	3645.3
50°	5183.9	5183.9	5137.8	5082.5	5005.8	4904.4	4784.6	4643.4	4486.8	4314.8	4127.4
47.5°	5844.1	5844.1	5791.9	5727.4	5635.3	5518.6	5377.3	5214.6	5036.5	4843.0	4631.1
45°	6522.8	6522.8	6464.5	6390.8	6289.4	6157.4	6000.8	5844.1	5616.9	5392.7	5147.0
42.5°	7229.2	7229.2	7161.6	7078.7	6962.0	6817.7	6639.5	6436.8	6212.7	5960.8	5693.7
40°	7963.1	7963.1	7886.4	7791.2	7662.2	7496.3	7296.7	7069.5	6817.7	6538.2	6243.4
37.5°	8712.5	8712.5	8626.5	8522.1	8377.7	8193.5	7969.3	7717.5	7434.9	7124.8	6799.2
35°	9467.9	9467.9	9372.7	9259.1	9099.4	8896.7	8654.1	8374.7	8061.4	7723.6	7358.1
32.5°	10238.8	10238.8	10134.3	10005.4	9824.2	9600.0	9332.8	9028.8	8712.5	8319.4	7920.1
30°	11000.4	11000.4	10886.7	10745.5	10552.0	10306.3	10014.6	9679.8	9308.2	8905.9	8476.0
27.5°	11749.7	11719.0	11623.8	11473.3	11261.4	11000.4	10684.1	10321.7	9919.4	9477.1	9016.5
25°	12486.7	12453.0	12348.5	12182.7	11955.5	11669.9	11329.0	10942.0	10509.0	10042.2	9538.6
22.5°	13193.1	13156.2	13045.7	12867.5	12624.9	12314.8	11949.3	11534.7	11074.1	10573.5	10042.2
20°	13847.2	13807.3	13693.7	13506.3	13254.5	12925.9	12538.9	12093.7	11602.3	11074.1	10509.0
17.5°	14436.8	14396.9	14277.1	14083.7	13847.2	13481.8	13082.5	12612.7	12093.7	11534.7	10942.0
15°	14955.8	14912.8	14790.0	14596.5	14326.3	13982.3	13561.6	13082.5	12538.9	11949.3	11329.0
12.5°	15398.1	15355.1	15229.2	15035.7	14756.2	14412.3	13982.3	13481.8	12925.9	12314.8	11669.9
10°	15748.2	15705.2	15585.4	15401.1	15112.5	14756.2	14326.3	13847.2	13254.5	12624.9	11955.5
7.5°	16000.0	15960.1	15849.5	15665.2	15401.1	15035.7	14596.5	14083.7	13506.3	12867.5	12182.7
5°	16190.4	16144.3	16033.8	15849.5	15585.4	15229.2	14790.0	14277.1	13693.7	13045.7	12348.5
2.5°	16322.4	16267.2	16144.3	15960.1	15705.2	15355.1	14912.8	14396.9	13807.3	13156.2	12453.0
0°	16359.3	16322.4	16190.4	16000.0	15748.2	15398.1	14955.8	14436.8	13847.2	13193.1	12486.7

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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°	110.6	110.6	107.5	104.4	101.3	95.2	92.1	89.1	86.0	79.8	76.8
85°	233.4	227.3	221.1	215.0	205.8	199.6	190.4	184.3	175.0	165.8	156.6
82.5°	368.5	359.3	347.0	337.8	325.5	310.2	297.9	282.5	267.2	254.9	239.5
80°	515.9	500.6	485.2	469.9	451.4	433.0	414.6	396.2	374.7	353.2	331.7
77.5°	675.6	654.1	632.6	608.1	586.6	562.0	537.4	512.9	485.2	457.6	429.9
75°	853.7	826.1	795.4	764.7	737.0	703.3	669.5	635.7	598.8	565.1	528.2
72.5°	1047.2	1013.4	976.6	939.7	899.8	856.8	813.8	767.8	724.8	681.8	635.7
70°	1256.0	1216.1	1170.1	1124.0	1074.9	1022.6	970.4	915.2	859.9	804.6	749.3
67.5°	1480.2	1431.1	1375.8	1320.5	1259.1	1197.7	1136.3	1071.8	1004.2	936.7	872.2
65°	1719.8	1658.3	1593.9	1523.2	1452.6	1382.0	1308.3	1231.5	1154.7	1074.9	1004.2
62.5°	1986.9	1910.2	1827.3	1741.3	1661.4	1575.4	1495.6	1400.4	1308.3	1219.2	1130.1
60°	2297.1	2195.8	2094.4	1986.9	1885.6	1775.0	1676.8	1572.4	1467.9	1366.6	1262.2
57.5°	2644.1	2515.2	2392.3	2263.3	2128.2	2005.4	1879.5	1753.5	1636.9	1517.1	1403.5
55°	3037.2	2880.6	2727.1	2567.4	2410.7	2257.2	2097.5	1956.2	1811.9	1676.8	1544.7
52.5°	3467.2	3289.1	3098.7	2917.5	2717.8	2527.4	2349.3	2171.2	2002.3	1839.5	1689.1
50°	3927.8	3719.0	3501.0	3279.8	3052.6	2828.4	2613.4	2404.6	2208.1	2017.7	1839.5
47.5°	4406.9	4170.4	3921.7	3669.9	3427.3	3153.9	2896.0	2659.5	2423.0	2208.1	2002.3
45°	4898.3	4631.1	4357.8	4072.2	3786.6	3491.7	3206.1	2917.5	2659.5	2404.6	2171.2
42.5°	5405.0	5104.0	4800.0	4483.7	4167.4	3844.9	3522.5	3206.1	2896.0	2613.4	2349.3
40°	5927.1	5595.4	5248.4	4904.4	4566.6	4198.1	3844.9	3491.7	3153.9	2828.4	2527.4
37.5°	6449.1	6086.7	5712.1	5325.1	4938.2	4566.6	4167.4	3786.6	3427.3	3052.6	2717.8
35°	6974.3	6575.0	6169.7	5748.9	5325.1	4904.4	4483.7	4072.2	3669.9	3279.8	2917.5
32.5°	7502.5	7066.4	6618.0	6169.7	5712.1	5248.4	4800.0	4357.8	3921.7	3501.0	3098.7
30°	8021.5	7548.6	7066.4	6575.0	6086.7	5595.4	5104.0	4631.1	4170.4	3719.0	3289.1
27.5°	8528.2	8021.5	7502.5	6974.3	6449.1	5927.1	5405.0	4898.3	4406.9	3927.8	3467.2
25°	9016.5	8476.0	7920.1	7358.1	6799.2	6243.4	5693.7	5147.0	4631.1	4127.4	3645.3
22.5°	9477.1	8905.9	8319.4	7723.6	7124.8	6538.2	5960.8	5392.7	4843.0	4314.8	3808.1
20°	9919.4	9308.2	8712.5	8061.4	7434.9	6817.7	6212.7	5616.9	5036.5	4486.8	3955.5
17.5°	10321.7	9679.8	9028.8	8374.7	7717.5	7069.5	6436.8	5844.1	5214.6	4643.4	4096.7
15°	10684.1	10014.6	9332.8	8654.1	7969.3	7296.7	6639.5	6000.8	5377.3	4784.6	4219.6
12.5°	11000.4	10306.3	9600.0	8896.7	8193.5	7496.3	6817.7	6157.4	5518.6	4904.4	4324.0
10°	11261.4	10552.0	9824.2	9099.4	8377.7	7662.2	6962.0	6289.4	5635.3	5005.8	4410.0
7.5°	11473.3	10745.5	10005.4	9259.1	8522.1	7791.2	7078.7	6390.8	5727.4	5082.5	4477.5
5°	11623.8	10886.7	10134.3	9372.7	8626.5	7886.4	7161.6	6464.5	5791.9	5137.8	4526.7
2.5°	11719.0	11000.4	10238.8	9467.9	8712.5	7963.1	7229.2	6522.8	5844.1	5183.9	4566.6
0°	11749.7	11000.4	10238.8	9467.9	8712.5	7963.1	7229.2	6522.8	5844.1	5183.9	4566.6

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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°	73.7	67.6	61.4	58.3	52.2	49.1	43.0	36.9	33.8	27.6	21.5
85°	147.4	135.1	125.9	116.7	107.5	95.2	86.0	76.8	64.5	55.3	43.0
82.5°	224.2	208.8	193.5	178.1	162.8	147.4	129.0	113.6	98.3	82.9	64.5
80°	310.2	285.6	264.1	242.6	221.1	199.6	175.0	153.6	129.0	107.5	86.0
77.5°	399.2	371.6	340.9	310.2	279.5	251.8	221.1	193.5	165.8	135.1	107.5
75°	494.4	457.6	423.8	383.9	347.0	307.1	270.2	233.4	199.6	165.8	129.0
72.5°	592.7	546.6	500.6	457.6	411.5	365.5	322.5	276.4	233.4	193.5	153.6
70°	694.0	638.8	583.5	531.3	479.1	423.8	374.7	322.5	270.2	221.1	175.0
67.5°	801.5	737.0	672.6	605.0	546.6	485.2	423.8	365.5	307.1	251.8	199.6
65°	918.2	841.5	761.6	691.0	614.2	546.6	479.1	411.5	347.0	279.5	221.1
62.5°	1038.0	948.9	859.9	770.8	691.0	605.0	531.3	457.6	383.9	310.2	242.6
60°	1160.8	1059.5	958.2	859.9	761.6	672.6	583.5	500.6	423.8	340.9	264.1
57.5°	1286.8	1173.1	1059.5	948.9	841.5	737.0	638.8	546.6	457.6	371.6	285.6
55°	1415.7	1286.8	1160.8	1038.0	918.2	801.5	694.0	592.7	494.4	399.2	310.2
52.5°	1544.7	1403.5	1262.2	1130.1	1004.2	872.2	749.3	635.7	528.2	429.9	331.7
50°	1676.8	1517.1	1366.6	1219.2	1074.9	936.7	804.6	681.8	565.1	457.6	353.2
47.5°	1811.9	1636.9	1467.9	1308.3	1154.7	1004.2	859.9	724.8	598.8	485.2	374.7
45°	1956.2	1753.5	1572.4	1400.4	1231.5	1071.8	915.2	767.8	635.7	512.9	396.2
42.5°	2097.5	1879.5	1676.8	1495.6	1308.3	1136.3	970.4	813.8	669.5	537.4	414.6
40°	2257.2	2005.4	1775.0	1575.4	1382.0	1197.7	1022.6	856.8	703.3	562.0	433.0
37.5°	2410.7	2128.2	1885.6	1661.4	1452.6	1259.1	1074.9	899.8	737.0	586.6	451.4
35°	2567.4	2263.3	1986.9	1741.3	1523.2	1320.5	1124.0	939.7	764.7	608.1	469.9
32.5°	2727.1	2392.3	2094.4	1827.3	1593.9	1375.8	1170.1	976.6	795.4	632.6	485.2
30°	2880.6	2515.2	2195.8	1910.2	1658.3	1431.1	1216.1	1013.4	826.1	654.1	500.6
27.5°	3037.2	2644.1	2297.1	1986.9	1719.8	1480.2	1256.0	1047.2	853.7	675.6	515.9
25°	3187.7	2767.0	2392.3	2060.7	1775.0	1529.4	1299.0	1081.0	878.3	694.0	528.2
22.5°	3325.9	2874.5	2478.3	2131.3	1833.4	1572.4	1335.9	1111.7	902.9	712.5	540.5
20°	3451.8	2985.0	2567.4	2201.9	1888.7	1615.4	1366.6	1139.3	924.4	727.8	552.8
17.5°	3574.7	3086.4	2647.2	2266.4	1934.7	1652.2	1397.3	1160.8	942.8	740.1	562.0
15°	3679.1	3175.4	2717.8	2321.7	1977.7	1682.9	1421.9	1182.3	958.2	752.4	568.1
12.5°	3771.2	3252.2	2779.3	2367.8	2011.5	1710.6	1446.4	1200.8	973.5	761.6	577.4
10°	3844.9	3313.6	2828.4	2407.7	2042.2	1732.1	1461.8	1216.1	982.7	770.8	583.5
7.5°	3903.3	3362.8	2868.3	2435.3	2063.7	1750.5	1477.2	1225.3	991.9	777.0	592.7
5°	3946.3	3399.6	2896.0	2456.8	2082.1	1772.0	1495.6	1240.7	1004.2	786.2	592.7
2.5°	3980.0	3427.3	2917.5	2475.2	2094.4	1772.0	1495.6	1240.7	1004.2	786.2	592.7
0°	3980.0	3427.3	2917.5	2475.2	2094.4	1772.0	1495.6	1240.7	1004.2	786.2	592.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.4	12.3	6.1	0.0
85°	33.8	21.5	12.3	0.0
82.5°	49.1	33.8	15.4	0.0
80°	64.5	43.0	21.5	0.0
77.5°	82.9	55.3	27.6	0.0
75°	98.3	64.5	33.8	0.0
72.5°	113.6	76.8	36.9	0.0
70°	129.0	86.0	43.0	0.0
67.5°	147.4	95.2	49.1	0.0
65°	162.8	107.5	52.2	0.0
62.5°	178.1	116.7	58.3	0.0
60°	193.5	125.9	61.4	0.0
57.5°	208.8	135.1	67.6	0.0
55°	224.2	147.4	73.7	0.0
52.5°	239.5	156.6	76.8	0.0
50°	254.9	165.8	79.8	0.0
47.5°	267.2	175.0	86.0	0.0
45°	282.5	184.3	89.1	0.0
42.5°	297.9	190.4	92.1	0.0
40°	310.2	199.6	95.2	0.0
37.5°	325.5	205.8	101.3	0.0
35°	337.8	215.0	104.4	0.0
32.5°	347.0	221.1	107.5	0.0
30°	359.3	227.3	110.6	0.0
27.5°	368.5	233.4	110.6	0.0
25°	377.7	239.5	113.6	0.0
22.5°	386.9	242.6	116.7	0.0
20°	396.2	248.8	119.8	0.0
17.5°	402.3	251.8	119.8	0.0
15°	408.4	254.9	125.9	0.0
12.5°	411.5	258.0	125.9	0.0
10°	417.7	264.1	125.9	0.0
7.5°	423.8	264.1	125.9	0.0
5°	423.8	264.1	125.9	0.0
2.5°	423.8	264.1	125.9	0.0
0°	423.8	264.1	125.9	0.0

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