

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: P623924

Luminaire Tested: **IFLD-L-SA8B-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623924
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	41674.1 lumens	Max Intensity:	23145.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.2 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:	18032 lumens	Field Lumens:	29526.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

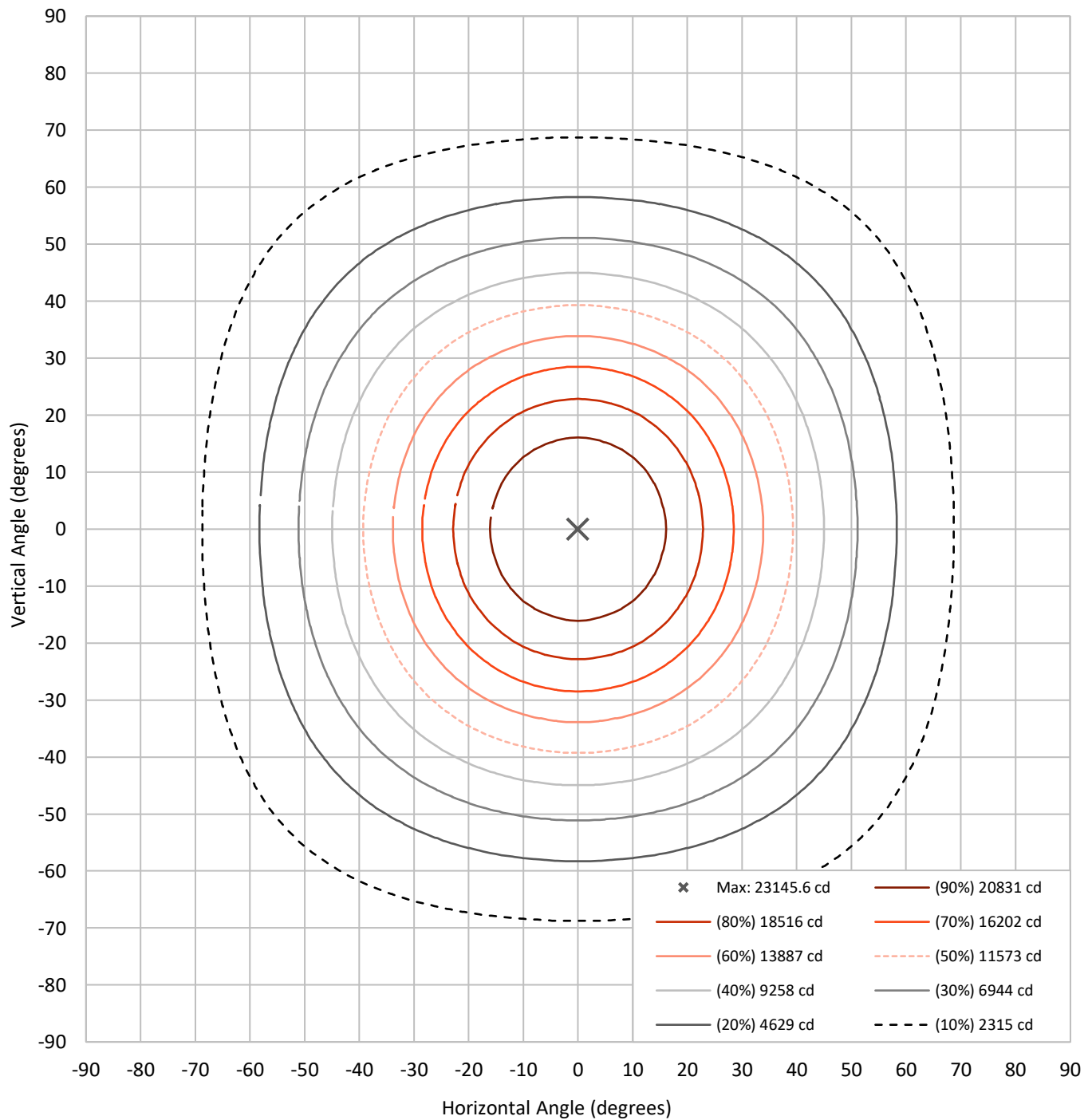
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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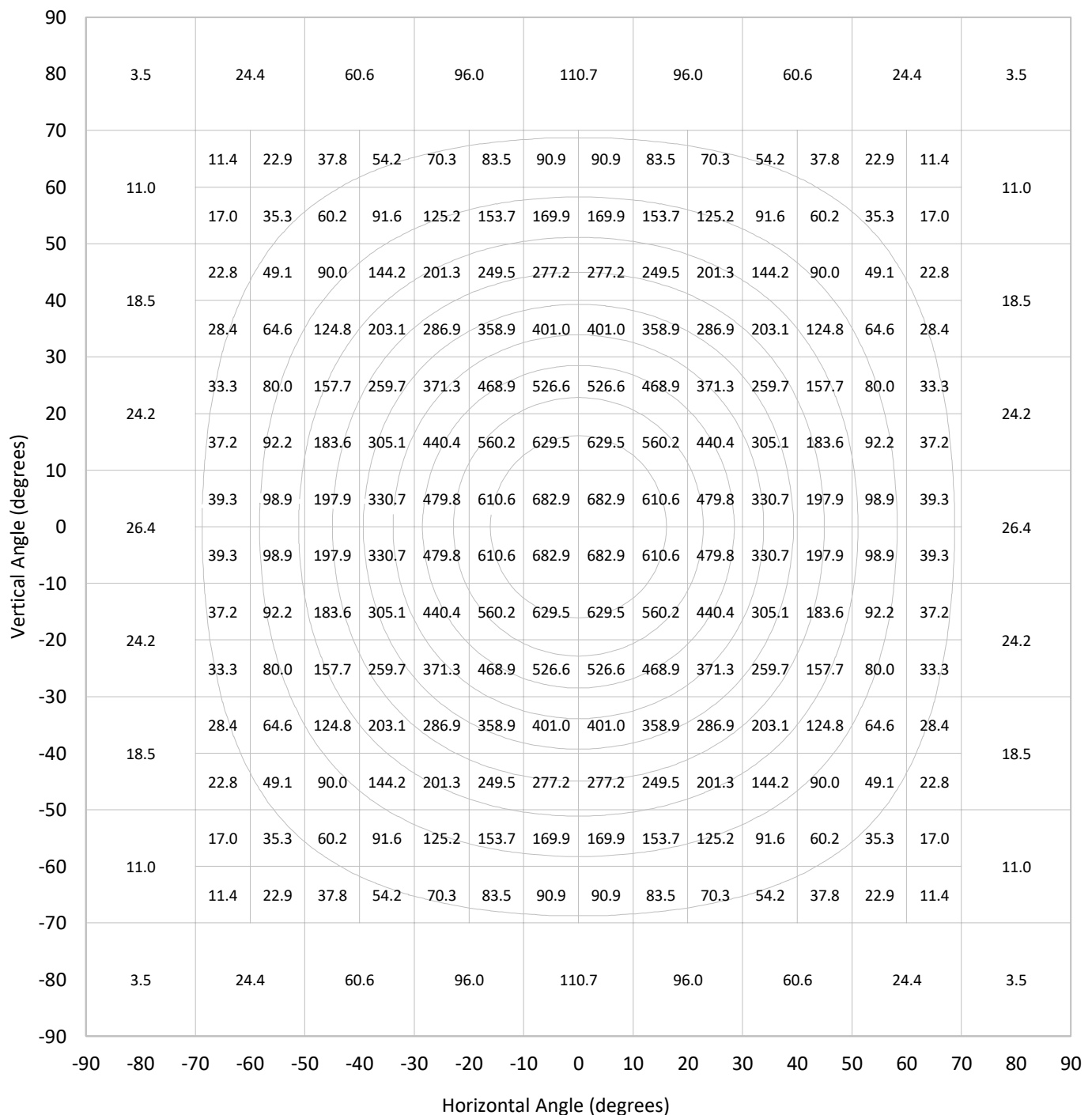
Iso-Candela Plot



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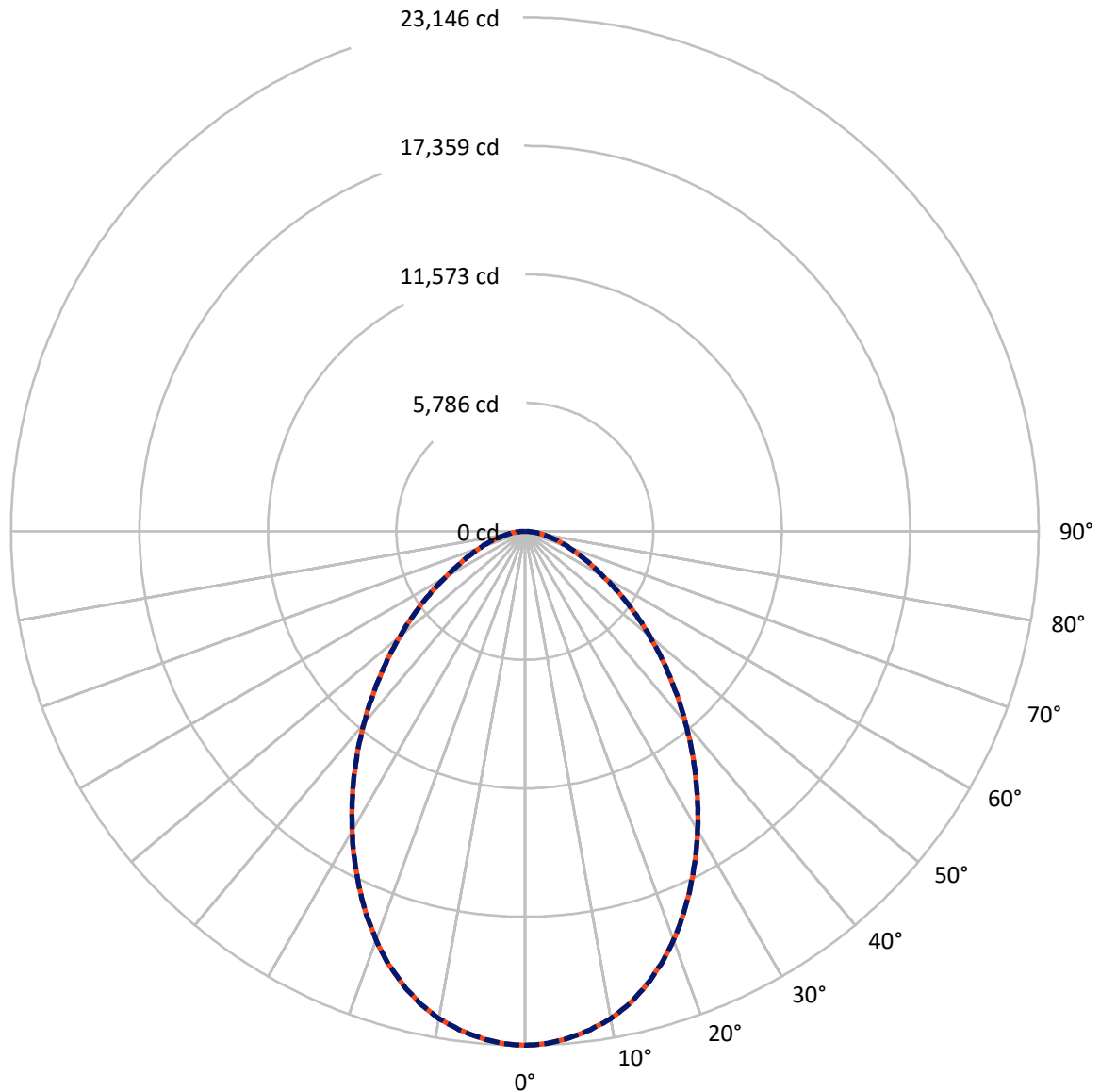
Lumen Table



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Luminous Intensity Polar Plot

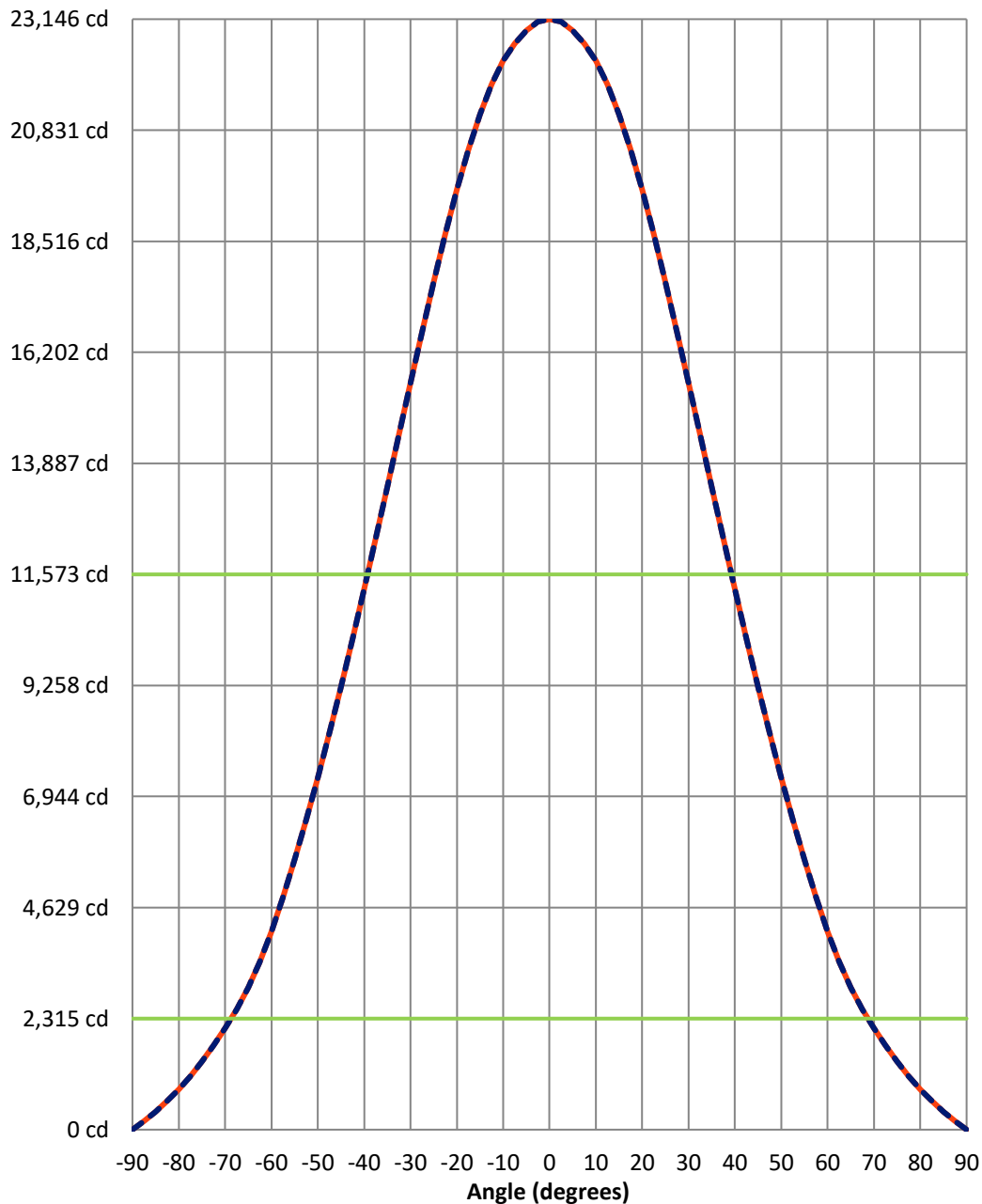


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18032
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 29526.7
Efficiency: 70.9%

Spill:

Lumens: 12147.4
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°	178.1	178.1	178.1	178.1	178.1	178.1	178.1	169.5	169.5	165.1	160.8
85°	373.7	373.7	373.7	373.7	373.7	365.0	360.6	356.3	351.9	343.3	338.9
82.5°	599.6	599.6	599.6	599.6	590.9	582.2	577.9	569.2	560.5	547.5	534.4
80°	838.6	838.6	838.6	838.6	825.5	816.9	803.8	795.1	782.1	764.7	747.3
77.5°	1112.3	1112.3	1112.3	1099.3	1090.6	1077.5	1064.5	1047.1	1029.8	1008.0	982.0
75°	1420.8	1420.8	1420.8	1403.4	1390.4	1377.4	1355.6	1333.9	1307.8	1277.4	1242.7
72.5°	1755.4	1755.4	1755.4	1733.6	1720.6	1698.9	1672.8	1642.4	1612.0	1572.9	1529.4
70°	2116.0	2116.0	2116.0	2089.9	2068.2	2046.5	2011.7	1977.0	1933.5	1890.1	1837.9
67.5°	2507.0	2507.0	2507.0	2476.6	2450.6	2420.1	2381.0	2337.6	2285.4	2224.6	2163.8
65°	2963.3	2963.3	2945.9	2919.8	2889.4	2845.9	2798.1	2737.3	2672.1	2593.9	2511.4
62.5°	3502.0	3502.0	3476.0	3445.5	3406.4	3350.0	3284.8	3206.6	3115.3	3015.4	2915.5
60°	4127.7	4127.7	4097.3	4058.2	4001.7	3932.2	3845.3	3745.3	3632.4	3506.4	3384.7
57.5°	4849.0	4849.0	4809.9	4757.7	4688.2	4601.3	4492.7	4366.7	4223.3	4066.9	3914.8
55°	5631.1	5631.1	5583.3	5522.4	5439.9	5335.6	5205.3	5057.5	4883.7	4705.6	4510.1
52.5°	6460.9	6460.9	6404.5	6334.9	6239.4	6117.7	5970.0	5796.2	5596.3	5387.7	5157.5
50°	7334.3	7334.3	7269.1	7190.9	7082.3	6938.9	6769.4	6569.6	6348.0	6104.7	5839.6
47.5°	8268.4	8268.4	8194.6	8103.3	7973.0	7807.9	7608.0	7377.7	7125.7	6852.0	6552.2
45°	9228.7	9228.7	9146.1	9041.8	8898.5	8711.6	8490.0	8268.4	7946.9	7629.7	7282.1
42.5°	10228.0	10228.0	10132.4	10015.1	9850.0	9645.8	9393.8	9107.0	8789.8	8433.6	8055.5
40°	11266.5	11266.5	11157.8	11023.1	10840.7	10606.0	10323.6	10002.1	9645.8	9250.4	8833.3
37.5°	12326.6	12326.6	12205.0	12057.2	11853.0	11592.3	11275.2	10918.9	10519.1	10080.3	9619.7
35°	13395.5	13395.5	13260.8	13100.0	12874.1	12587.3	12244.1	11848.7	11405.5	10927.6	10410.5
32.5°	14486.1	14486.1	14338.3	14155.9	13899.5	13582.3	13204.3	12774.2	12326.6	11770.5	11205.6
30°	15563.6	15563.6	15402.9	15203.0	14929.3	14581.7	14168.9	13695.3	13169.6	12600.4	11992.1
27.5°	16623.8	16580.3	16445.6	16232.7	15932.9	15563.6	15116.1	14603.4	14034.2	13408.5	12756.8
25°	17666.6	17618.8	17471.1	17236.4	16914.9	16510.8	16028.5	15481.1	14868.4	14208.0	13495.4
22.5°	18665.9	18613.8	18457.4	18205.4	17862.1	17423.3	16906.2	16319.6	15667.9	14959.7	14208.0
20°	19591.4	19534.9	19374.1	19109.1	18752.8	18287.9	17740.4	17110.4	16415.2	15667.9	14868.4
17.5°	20425.6	20369.1	20199.7	19926.0	19591.4	19074.3	18509.5	17844.7	17110.4	16319.6	15481.1
15°	21159.9	21099.1	20925.3	20651.6	20269.2	19782.6	19187.3	18509.5	17740.4	16906.2	16028.5
12.5°	21785.6	21724.8	21546.6	21272.9	20877.5	20390.9	19782.6	19074.3	18287.9	17423.3	16510.8
10°	22280.9	22220.1	22050.6	21789.9	21381.5	20877.5	20269.2	19591.4	18752.8	17862.1	16914.9
7.5°	22637.2	22580.7	22424.3	22163.6	21789.9	21272.9	20651.6	19926.0	19109.1	18205.4	17236.4
5°	22906.6	22841.4	22685.0	22424.3	22050.6	21546.6	20925.3	20199.7	19374.1	18457.4	17471.1
2.5°	23093.4	23015.2	22841.4	22580.7	22220.1	21724.8	21099.1	20369.1	19534.9	18613.8	17618.8
0°	23145.6	23093.4	22906.6	22637.2	22280.9	21785.6	21159.9	20425.6	19591.4	18665.9	17666.6

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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°	156.4	156.4	152.1	147.7	143.4	134.7	130.3	126.0	121.7	113.0	108.6
85°	330.2	321.5	312.8	304.1	291.1	282.4	269.4	260.7	247.7	234.6	221.6
82.5°	521.4	508.4	491.0	477.9	460.6	438.8	421.5	399.7	378.0	360.6	338.9
80°	730.0	708.2	686.5	664.8	638.7	612.6	586.6	560.5	530.1	499.7	469.3
77.5°	955.9	925.5	895.1	860.3	829.9	795.1	760.4	725.6	686.5	647.4	608.3
75°	1207.9	1168.8	1125.3	1081.9	1042.8	995.0	947.2	899.4	847.3	799.5	747.3
72.5°	1481.6	1433.8	1381.7	1329.6	1273.1	1212.2	1151.4	1086.2	1025.4	964.6	899.4
70°	1777.1	1720.6	1655.4	1590.3	1520.7	1446.9	1373.0	1294.8	1216.6	1138.4	1060.2
67.5°	2094.3	2024.7	1946.5	1868.3	1781.4	1694.5	1607.6	1516.4	1420.8	1325.2	1234.0
65°	2433.2	2346.3	2255.0	2155.1	2055.2	1955.2	1850.9	1742.3	1633.7	1520.7	1420.8
62.5°	2811.2	2702.6	2585.2	2463.6	2350.6	2229.0	2116.0	1981.3	1850.9	1724.9	1598.9
60°	3250.0	3106.6	2963.3	2811.2	2667.8	2511.4	2372.3	2224.6	2076.9	1933.5	1785.8
57.5°	3741.0	3558.5	3384.7	3202.2	3011.1	2837.3	2659.1	2481.0	2315.9	2146.4	1985.6
55°	4297.2	4075.6	3858.3	3632.4	3410.8	3193.5	2967.6	2767.7	2563.5	2372.3	2185.5
52.5°	4905.5	4653.4	4384.1	4127.7	3845.3	3575.9	3323.9	3071.9	2832.9	2602.6	2389.7
50°	5557.2	5261.7	4953.2	4640.4	4318.9	4001.7	3697.6	3402.1	3124.0	2854.6	2602.6
47.5°	6235.0	5900.4	5548.5	5192.2	4849.0	4462.3	4097.3	3762.7	3428.2	3124.0	2832.9
45°	6930.2	6552.2	6165.5	5761.4	5357.3	4940.2	4536.1	4127.7	3762.7	3402.1	3071.9
42.5°	7647.1	7221.3	6791.2	6343.6	5896.1	5439.9	4983.7	4536.1	4097.3	3697.6	3323.9
40°	8385.8	7916.5	7425.5	6938.9	6460.9	5939.6	5439.9	4940.2	4462.3	4001.7	3575.9
37.5°	9124.4	8611.7	8081.6	7534.1	6986.7	6460.9	5896.1	5357.3	4849.0	4318.9	3845.3
35°	9867.4	9302.5	8729.0	8133.8	7534.1	6938.9	6343.6	5761.4	5192.2	4640.4	4127.7
32.5°	10614.7	9997.7	9363.4	8729.0	8081.6	7425.5	6791.2	6165.5	5548.5	4953.2	4384.1
30°	11349.0	10679.9	9997.7	9302.5	8611.7	7916.5	7221.3	6552.2	5900.4	5261.7	4653.4
27.5°	12065.9	11349.0	10614.7	9867.4	9124.4	8385.8	7647.1	6930.2	6235.0	5557.2	4905.5
25°	12756.8	11992.1	11205.6	10410.5	9619.7	8833.3	8055.5	7282.1	6552.2	5839.6	5157.5
22.5°	13408.5	12600.4	11770.5	10927.6	10080.3	9250.4	8433.6	7629.7	6852.0	6104.7	5387.7
20°	14034.2	13169.6	12326.6	11405.5	10519.1	9645.8	8789.8	7946.9	7125.7	6348.0	5596.3
17.5°	14603.4	13695.3	12774.2	11848.7	10918.9	10002.1	9107.0	8268.4	7377.7	6569.6	5796.2
15°	15116.1	14168.9	13204.3	12244.1	11275.2	10323.6	9393.8	8490.0	7608.0	6769.4	5970.0
12.5°	15563.6	14581.7	13582.3	12587.3	11592.3	10606.0	9645.8	8711.6	7807.9	6938.9	6117.7
10°	15932.9	14929.3	13899.5	12874.1	11853.0	10840.7	9850.0	8898.5	7973.0	7082.3	6239.4
7.5°	16232.7	15203.0	14155.9	13100.0	12057.2	11023.1	10015.1	9041.8	8103.3	7190.9	6334.9
5°	16445.6	15402.9	14338.3	13260.8	12205.0	11157.8	10132.4	9146.1	8194.6	7269.1	6404.5
2.5°	16580.3	15563.6	14486.1	13395.5	12326.6	11266.5	10228.0	9228.7	8268.4	7334.3	6460.9
0°	16623.8	15563.6	14486.1	13395.5	12326.6	11266.5	10228.0	9228.7	8268.4	7334.3	6460.9

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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°	104.3	95.6	86.9	82.6	73.9	69.5	60.8	52.1	47.8	39.1	30.4
85°	208.6	191.2	178.1	165.1	152.1	134.7	121.7	108.6	91.2	78.2	60.8
82.5°	317.2	295.5	273.7	252.0	230.3	208.6	182.5	160.8	139.0	117.3	91.2
80°	438.8	404.1	373.7	343.3	312.8	282.4	247.7	217.2	182.5	152.1	121.7
77.5°	564.8	525.7	482.3	438.8	395.4	356.3	312.8	273.7	234.6	191.2	152.1
75°	699.5	647.4	599.6	543.1	491.0	434.5	382.4	330.2	282.4	234.6	182.5
72.5°	838.6	773.4	708.2	647.4	582.2	517.0	456.2	391.0	330.2	273.7	217.2
70°	982.0	903.8	825.5	751.7	677.8	599.6	530.1	456.2	382.4	312.8	247.7
67.5°	1134.0	1042.8	951.5	856.0	773.4	686.5	599.6	517.0	434.5	356.3	282.4
65°	1299.1	1190.5	1077.5	977.6	869.0	773.4	677.8	582.2	491.0	395.4	312.8
62.5°	1468.6	1342.6	1216.6	1090.6	977.6	856.0	751.7	647.4	543.1	438.8	343.3
60°	1642.4	1499.0	1355.6	1216.6	1077.5	951.5	825.5	708.2	599.6	482.3	373.7
57.5°	1820.5	1659.8	1499.0	1342.6	1190.5	1042.8	903.8	773.4	647.4	525.7	404.1
55°	2003.0	1820.5	1642.4	1468.6	1299.1	1134.0	982.0	838.6	699.5	564.8	438.8
52.5°	2185.5	1985.6	1785.8	1598.9	1420.8	1234.0	1060.2	899.4	747.3	608.3	469.3
50°	2372.3	2146.4	1933.5	1724.9	1520.7	1325.2	1138.4	964.6	799.5	647.4	499.7
47.5°	2563.5	2315.9	2076.9	1850.9	1633.7	1420.8	1216.6	1025.4	847.3	686.5	530.1
45°	2767.7	2481.0	2224.6	1981.3	1742.3	1516.4	1294.8	1086.2	899.4	725.6	560.5
42.5°	2967.6	2659.1	2372.3	2116.0	1850.9	1607.6	1373.0	1151.4	947.2	760.4	586.6
40°	3193.5	2837.3	2511.4	2229.0	1955.2	1694.5	1446.9	1212.2	995.0	795.1	612.6
37.5°	3410.8	3011.1	2667.8	2350.6	2055.2	1781.4	1520.7	1273.1	1042.8	829.9	638.7
35°	3632.4	3202.2	2811.2	2463.6	2155.1	1868.3	1590.3	1329.6	1081.9	860.3	664.8
32.5°	3858.3	3384.7	2963.3	2585.2	2255.0	1946.5	1655.4	1381.7	1125.3	895.1	686.5
30°	4075.6	3558.5	3106.6	2702.6	2346.3	2024.7	1720.6	1433.8	1168.8	925.5	708.2
27.5°	4297.2	3741.0	3250.0	2811.2	2433.2	2094.3	1777.1	1481.6	1207.9	955.9	730.0
25°	4510.1	3914.8	3384.7	2915.5	2511.4	2163.8	1837.9	1529.4	1242.7	982.0	747.3
22.5°	4705.6	4066.9	3506.4	3015.4	2593.9	2224.6	1890.1	1572.9	1277.4	1008.0	764.7
20°	4883.7	4223.3	3632.4	3115.3	2672.1	2285.4	1933.5	1612.0	1307.8	1029.8	782.1
17.5°	5057.5	4366.7	3745.3	3206.6	2737.3	2337.6	1977.0	1642.4	1333.9	1047.1	795.1
15°	5205.3	4492.7	3845.3	3284.8	2798.1	2381.0	2011.7	1672.8	1355.6	1064.5	803.8
12.5°	5335.6	4601.3	3932.2	3350.0	2845.9	2420.1	2046.5	1698.9	1377.4	1077.5	816.9
10°	5439.9	4688.2	4001.7	3406.4	2889.4	2450.6	2068.2	1720.6	1390.4	1090.6	825.5
7.5°	5522.4	4757.7	4058.2	3445.5	2919.8	2476.6	2089.9	1733.6	1403.4	1099.3	838.6
5°	5583.3	4809.9	4097.3	3476.0	2945.9	2507.0	2116.0	1755.4	1420.8	1112.3	838.6
2.5°	5631.1	4849.0	4127.7	3502.0	2963.3	2507.0	2116.0	1755.4	1420.8	1112.3	838.6
0°	5631.1	4849.0	4127.7	3502.0	2963.3	2507.0	2116.0	1755.4	1420.8	1112.3	838.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.7	17.4	8.7	0.0
85°	47.8	30.4	17.4	0.0
82.5°	69.5	47.8	21.7	0.0
80°	91.2	60.8	30.4	0.0
77.5°	117.3	78.2	39.1	0.0
75°	139.0	91.2	47.8	0.0
72.5°	160.8	108.6	52.1	0.0
70°	182.5	121.7	60.8	0.0
67.5°	208.6	134.7	69.5	0.0
65°	230.3	152.1	73.9	0.0
62.5°	252.0	165.1	82.6	0.0
60°	273.7	178.1	86.9	0.0
57.5°	295.5	191.2	95.6	0.0
55°	317.2	208.6	104.3	0.0
52.5°	338.9	221.6	108.6	0.0
50°	360.6	234.6	113.0	0.0
47.5°	378.0	247.7	121.7	0.0
45°	399.7	260.7	126.0	0.0
42.5°	421.5	269.4	130.3	0.0
40°	438.8	282.4	134.7	0.0
37.5°	460.6	291.1	143.4	0.0
35°	477.9	304.1	147.7	0.0
32.5°	491.0	312.8	152.1	0.0
30°	508.4	321.5	156.4	0.0
27.5°	521.4	330.2	156.4	0.0
25°	534.4	338.9	160.8	0.0
22.5°	547.5	343.3	165.1	0.0
20°	560.5	351.9	169.5	0.0
17.5°	569.2	356.3	169.5	0.0
15°	577.9	360.6	178.1	0.0
12.5°	582.2	365.0	178.1	0.0
10°	590.9	373.7	178.1	0.0
7.5°	599.6	373.7	178.1	0.0
5°	599.6	373.7	178.1	0.0
2.5°	599.6	373.7	178.1	0.0
0°	599.6	373.7	178.1	0.0

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