

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: P623966

Luminaire Tested: **IFLD-S-SA6A-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623966
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

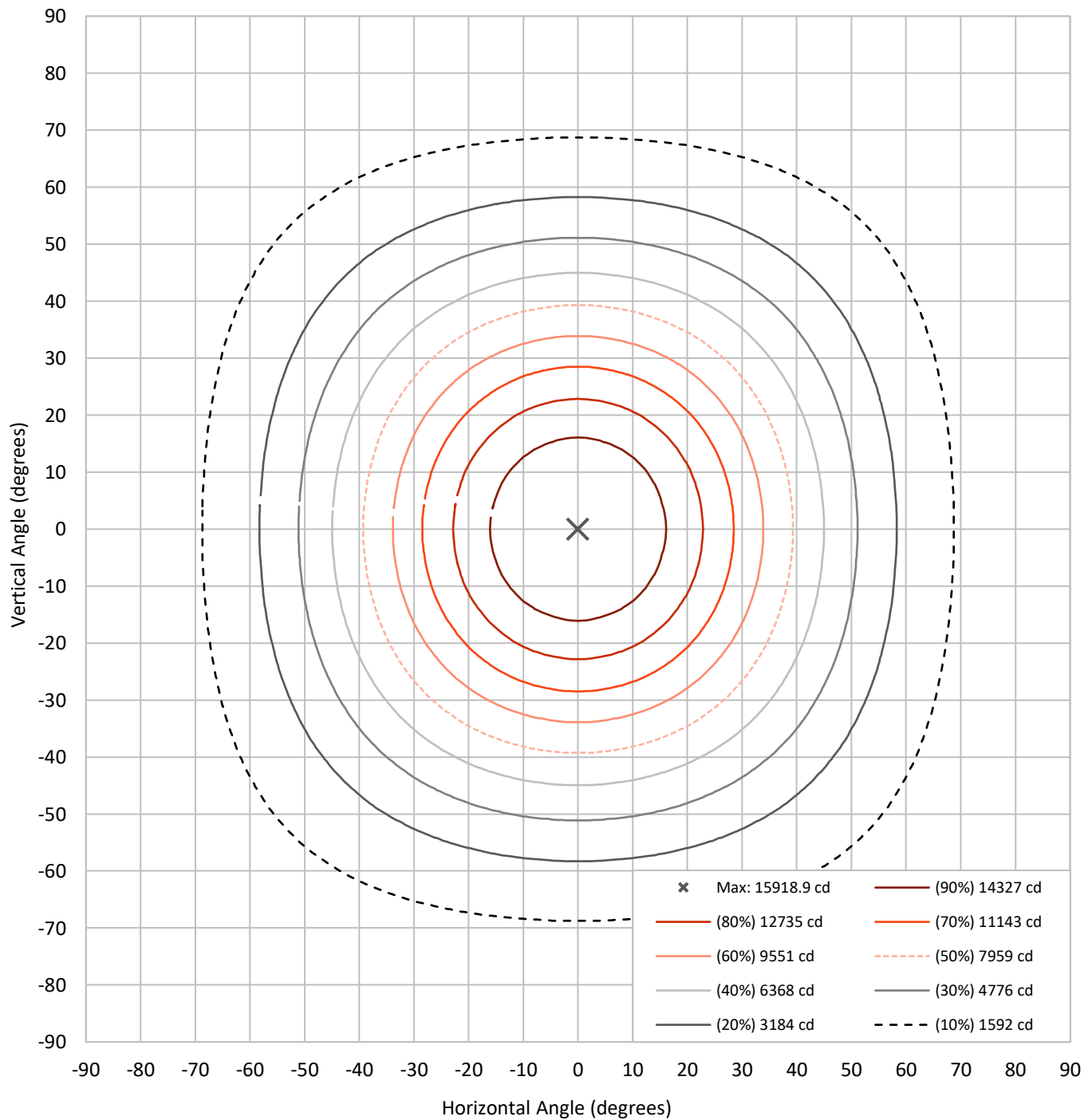
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28662.4 lumens	Max Intensity:	15918.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	151.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	12401.9 lumens	Field Lumens:	20307.7 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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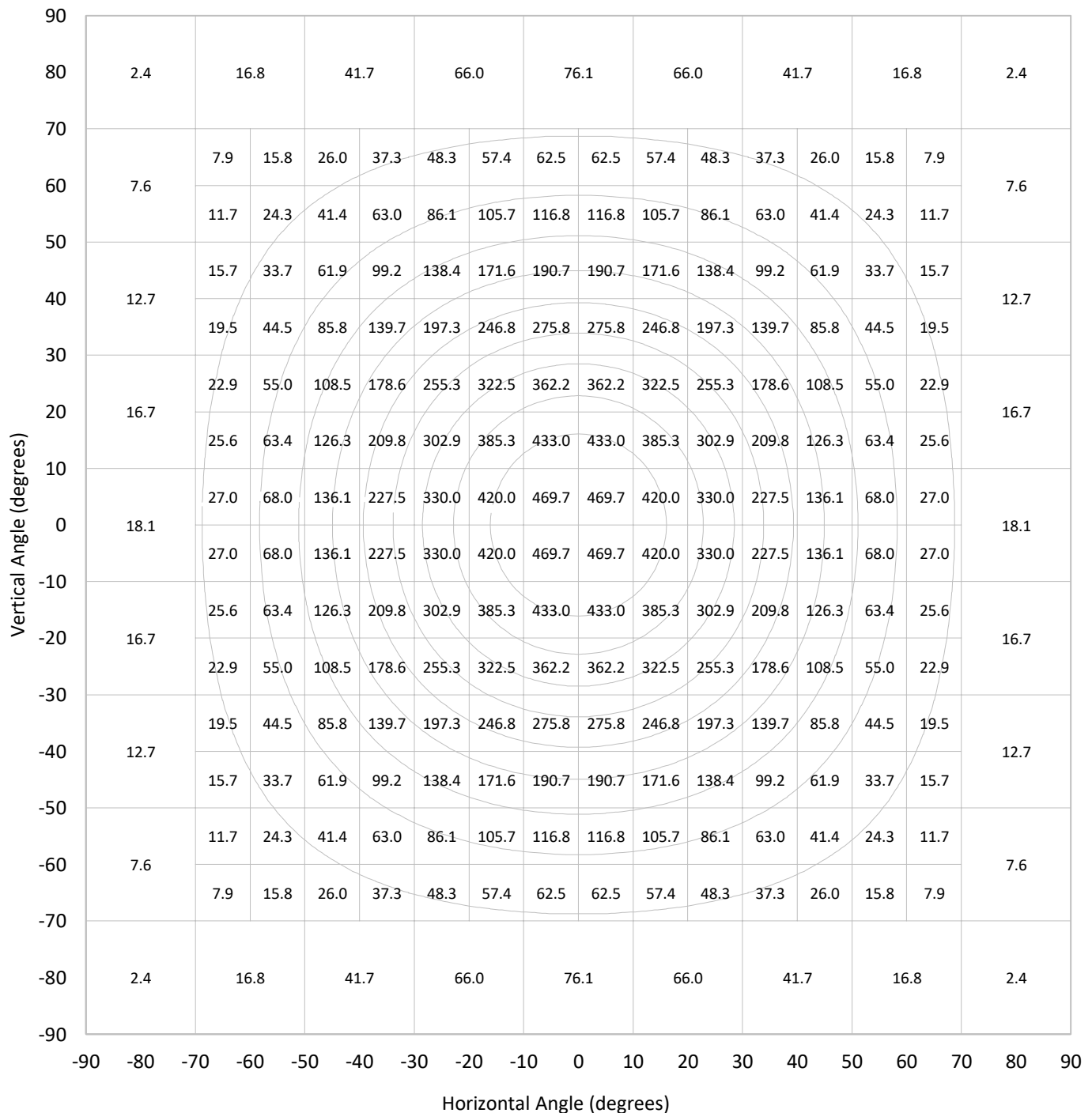
CATALOG NUMBER: IFLD-S-SA6A-750-U-77

Iso-Candela Plot



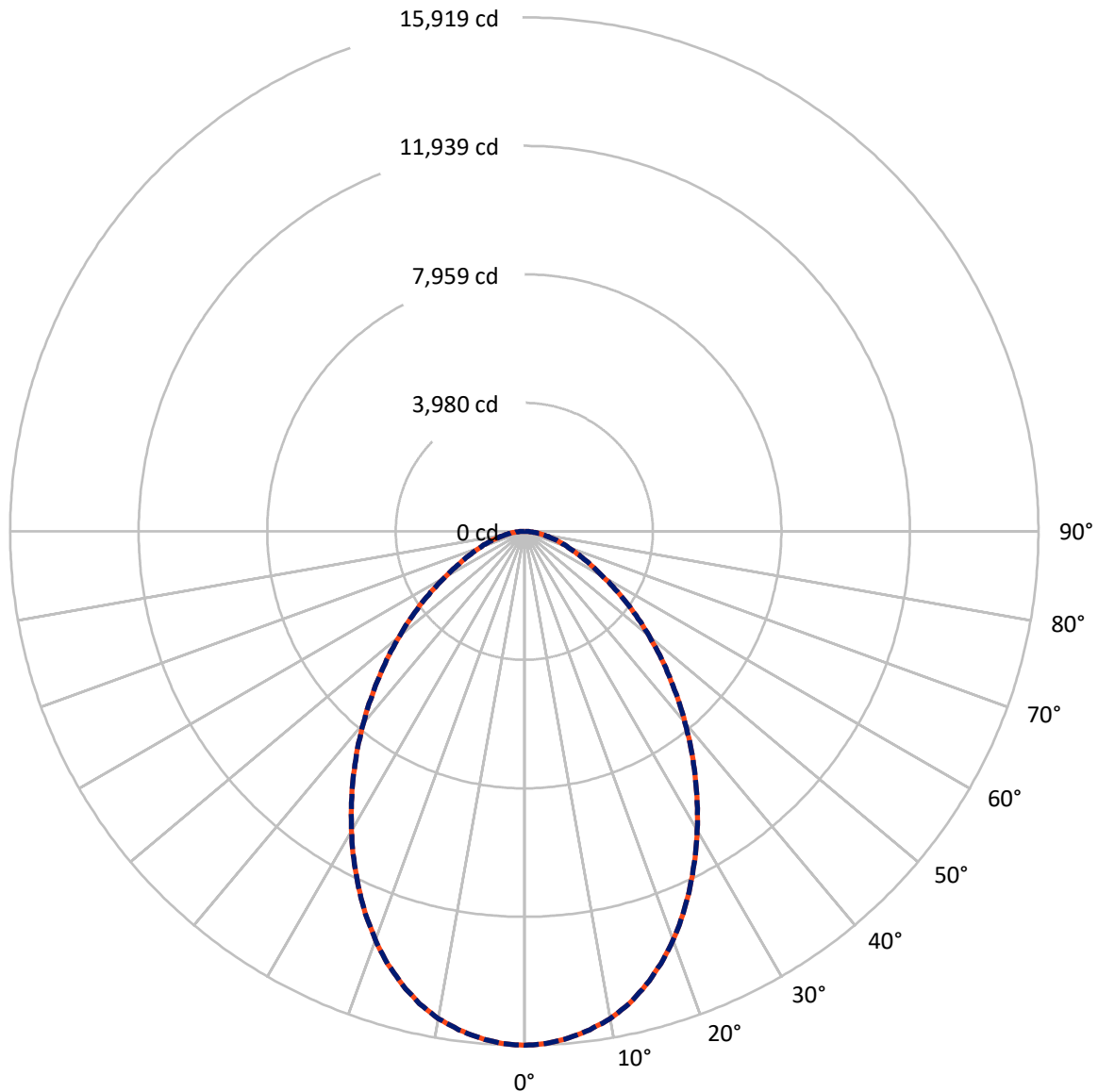
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Lumen Table



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Luminous Intensity Polar Plot

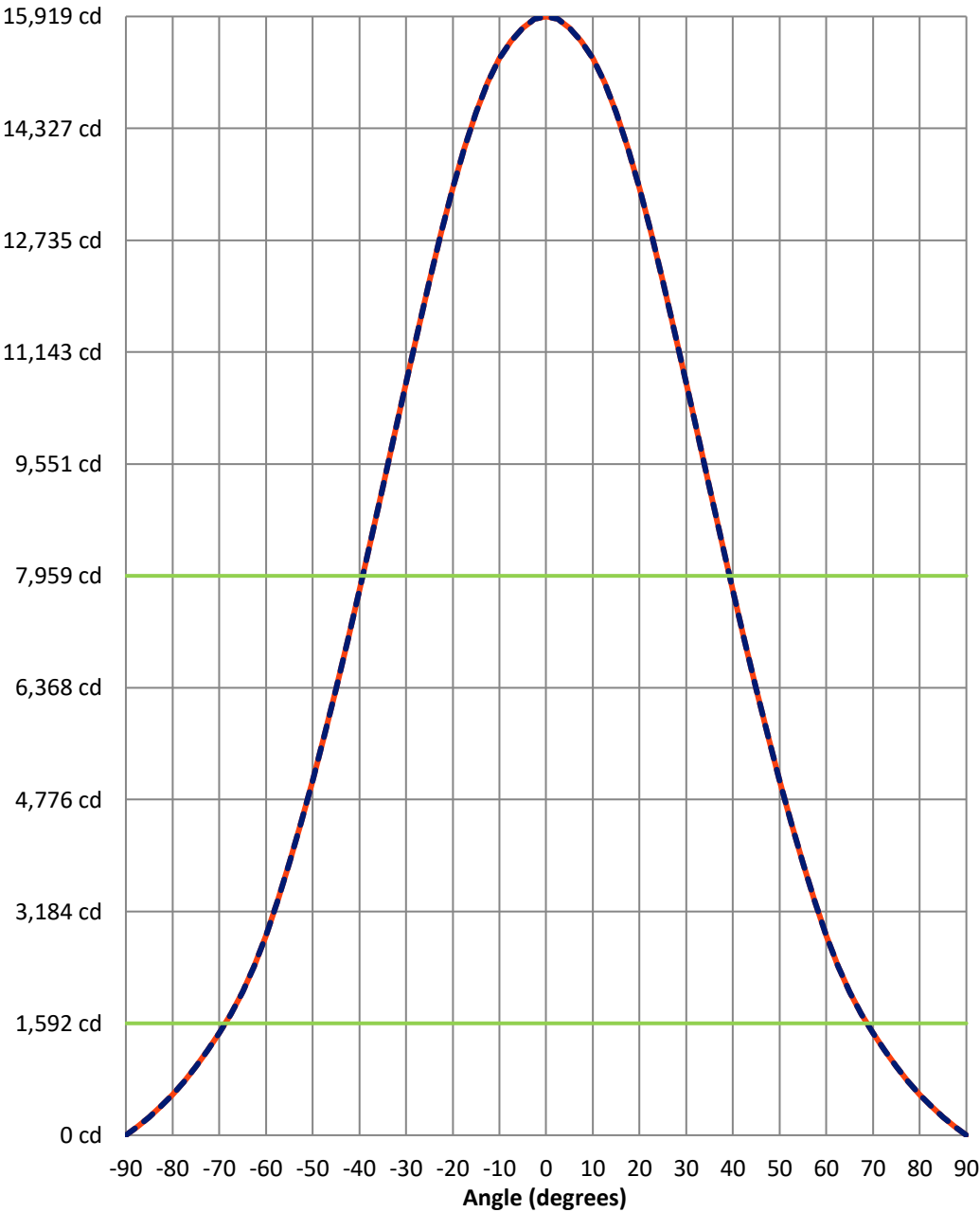


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 12401.9
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 20307.7
Efficiency: 70.9%

Spill:
Lumens: 8354.6
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°	122.5	122.5	122.5	122.5	122.5	122.5	122.5	116.5	116.5	113.6	110.6
85°	257.0	257.0	257.0	257.0	257.0	251.0	248.0	245.0	242.1	236.1	233.1
82.5°	412.4	412.4	412.4	412.4	406.4	400.4	397.4	391.5	385.5	376.5	367.6
80°	576.8	576.8	576.8	576.8	567.8	561.8	552.8	546.9	537.9	525.9	514.0
77.5°	765.0	765.0	765.0	756.1	750.1	741.1	732.1	720.2	708.2	693.3	675.4
75°	977.2	977.2	977.2	965.2	956.3	947.3	932.4	917.4	899.5	878.6	854.7
72.5°	1207.3	1207.3	1207.3	1192.3	1183.4	1168.4	1150.5	1129.6	1108.7	1081.8	1051.9
70°	1455.3	1455.3	1455.3	1437.4	1422.5	1407.5	1383.6	1359.7	1329.8	1299.9	1264.1
67.5°	1724.3	1724.3	1724.3	1703.4	1685.4	1664.5	1637.6	1607.7	1571.9	1530.0	1488.2
65°	2038.1	2038.1	2026.1	2008.2	1987.2	1957.4	1924.5	1882.7	1837.8	1784.0	1727.3
62.5°	2408.6	2408.6	2390.7	2369.8	2342.9	2304.0	2259.2	2205.4	2142.6	2073.9	2005.2
60°	2838.9	2838.9	2818.0	2791.1	2752.3	2704.5	2644.7	2576.0	2498.3	2411.6	2327.9
57.5°	3335.0	3335.0	3308.1	3272.2	3224.4	3164.7	3089.9	3003.3	2904.7	2797.1	2692.5
55°	3872.9	3872.9	3840.0	3798.2	3741.4	3669.7	3580.0	3478.4	3358.9	3236.4	3101.9
52.5°	4443.7	4443.7	4404.8	4357.0	4291.3	4207.6	4106.0	3986.5	3849.0	3705.5	3547.2
50°	5044.3	5044.3	4999.5	4945.7	4871.0	4772.4	4655.8	4518.4	4366.0	4198.6	4016.3
47.5°	5686.8	5686.8	5636.0	5573.3	5483.6	5370.1	5232.6	5074.2	4900.9	4712.6	4506.4
45°	6347.2	6347.2	6290.5	6218.7	6120.1	5991.6	5839.2	5686.8	5465.7	5247.5	5008.5
42.5°	7034.6	7034.6	6968.8	6888.1	6774.6	6634.1	6460.8	6263.6	6045.4	5800.4	5540.4
40°	7748.8	7748.8	7674.1	7581.4	7455.9	7294.6	7100.3	6879.2	6634.1	6362.2	6075.3
37.5°	8477.9	8477.9	8394.3	8292.7	8152.2	7972.9	7754.8	7509.7	7234.8	6933.0	6616.2
35°	9213.1	9213.1	9120.4	9009.9	8854.5	8657.2	8421.2	8149.2	7844.4	7515.7	7160.1
32.5°	9963.1	9963.1	9861.5	9736.0	9559.7	9341.6	9081.6	8785.7	8477.9	8095.4	7706.9
30°	10704.3	10704.3	10593.7	10456.2	10268.0	10028.9	9745.0	9419.3	9057.7	8666.2	8247.8
27.5°	11433.4	11403.5	11310.9	11164.5	10958.3	10704.3	10396.5	10043.8	9652.4	9222.0	8773.8
25°	12150.6	12117.7	12016.1	11854.8	11633.6	11355.7	11024.0	10647.5	10226.1	9771.9	9281.8
22.5°	12837.9	12802.1	12694.5	12521.2	12285.1	11983.3	11627.7	11224.2	10776.0	10288.9	9771.9
20°	13474.4	13435.6	13325.0	13142.7	12897.7	12577.9	12201.4	11768.1	11290.0	10776.0	10226.1
17.5°	14048.2	14009.4	13892.8	13704.6	13474.4	13118.8	12730.4	12273.1	11768.1	11224.2	10647.5
15°	14553.2	14511.4	14391.9	14203.6	13940.6	13605.9	13196.5	12730.4	12201.4	11627.7	11024.0
12.5°	14983.6	14941.7	14819.2	14630.9	14359.0	14024.3	13605.9	13118.8	12577.9	11983.3	11355.7
10°	15324.2	15282.4	15165.9	14986.6	14705.6	14359.0	13940.6	13474.4	12897.7	12285.1	11633.6
7.5°	15569.3	15530.4	15422.8	15243.5	14986.6	14630.9	14203.6	13704.6	13142.7	12521.2	11854.8
5°	15754.6	15709.7	15602.2	15422.8	15165.9	14819.2	14391.9	13892.8	13325.0	12694.5	12016.1
2.5°	15883.1	15829.3	15709.7	15530.4	15282.4	14941.7	14511.4	14009.4	13435.6	12802.1	12117.7
0°	15918.9	15883.1	15754.6	15569.3	15324.2	14983.6	14553.2	14048.2	13474.4	12837.9	12150.6

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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°	107.6	107.6	104.6	101.6	98.6	92.6	89.7	86.7	83.7	77.7	74.7
85°	227.1	221.1	215.2	209.2	200.2	194.2	185.3	179.3	170.3	161.4	152.4
82.5°	358.6	349.6	337.7	328.7	316.8	301.8	289.9	274.9	260.0	248.0	233.1
80°	502.0	487.1	472.2	457.2	439.3	421.4	403.4	385.5	364.6	343.7	322.7
77.5°	657.4	636.5	615.6	591.7	570.8	546.9	523.0	499.1	472.2	445.3	418.4
75°	830.8	803.9	774.0	744.1	717.2	684.3	651.5	618.6	582.7	549.9	514.0
72.5°	1019.0	986.2	950.3	914.4	875.6	833.7	791.9	747.1	705.2	663.4	618.6
70°	1222.2	1183.4	1138.6	1093.7	1045.9	995.1	944.3	890.5	836.7	782.9	729.2
67.5°	1440.4	1392.6	1338.8	1285.0	1225.2	1165.5	1105.7	1042.9	977.2	911.4	848.7
65°	1673.5	1613.7	1551.0	1482.2	1413.5	1344.8	1273.0	1198.3	1123.6	1045.9	977.2
62.5°	1933.5	1858.8	1778.1	1694.4	1616.7	1533.0	1455.3	1362.7	1273.0	1186.4	1099.7
60°	2235.3	2136.7	2038.1	1933.5	1834.8	1727.3	1631.6	1530.0	1428.4	1329.8	1228.2
57.5°	2573.0	2447.5	2327.9	2202.4	2070.9	1951.4	1828.9	1706.3	1592.8	1476.2	1365.7
55°	2955.5	2803.1	2653.7	2498.3	2345.9	2196.4	2041.0	1903.6	1763.1	1631.6	1503.1
52.5°	3373.8	3200.5	3015.2	2838.9	2644.7	2459.4	2286.1	2112.8	1948.4	1790.0	1643.6
50°	3822.1	3618.9	3406.7	3191.6	2970.4	2752.3	2543.1	2339.9	2148.6	1963.3	1790.0
47.5°	4288.3	4058.2	3816.1	3571.1	3335.0	3069.0	2818.0	2587.9	2357.8	2148.6	1948.4
45°	4766.4	4506.4	4240.5	3962.5	3684.6	3397.7	3119.8	2838.9	2587.9	2339.9	2112.8
42.5°	5259.5	4966.6	4670.8	4363.0	4055.2	3741.4	3427.6	3119.8	2818.0	2543.1	2286.1
40°	5767.5	5444.8	5107.1	4772.4	4443.7	4085.1	3741.4	3397.7	3069.0	2752.3	2459.4
37.5°	6275.5	5922.9	5558.3	5181.8	4805.3	4443.7	4055.2	3684.6	3335.0	2970.4	2644.7
35°	6786.5	6398.0	6003.6	5594.2	5181.8	4772.4	4363.0	3962.5	3571.1	3191.6	2838.9
32.5°	7300.5	6876.2	6439.9	6003.6	5558.3	5107.1	4670.8	4240.5	3816.1	3406.7	3015.2
30°	7805.6	7345.4	6876.2	6398.0	5922.9	5444.8	4966.6	4506.4	4058.2	3618.9	3200.5
27.5°	8298.6	7805.6	7300.5	6786.5	6275.5	5767.5	5259.5	4766.4	4288.3	3822.1	3373.8
25°	8773.8	8247.8	7706.9	7160.1	6616.2	6075.3	5540.4	5008.5	4506.4	4016.3	3547.2
22.5°	9222.0	8666.2	8095.4	7515.7	6933.0	6362.2	5800.4	5247.5	4712.6	4198.6	3705.5
20°	9652.4	9057.7	8477.9	7844.4	7234.8	6634.1	6045.4	5465.7	4900.9	4366.0	3849.0
17.5°	10043.8	9419.3	8785.7	8149.2	7509.7	6879.2	6263.6	5686.8	5074.2	4518.4	3986.5
15°	10396.5	9745.0	9081.6	8421.2	7754.8	7100.3	6460.8	5839.2	5232.6	4655.8	4106.0
12.5°	10704.3	10028.9	9341.6	8657.2	7972.9	7294.6	6634.1	5991.6	5370.1	4772.4	4207.6
10°	10958.3	10268.0	9559.7	8854.5	8152.2	7455.9	6774.6	6120.1	5483.6	4871.0	4291.3
7.5°	11164.5	10456.2	9736.0	9009.9	8292.7	7581.4	6888.1	6218.7	5573.3	4945.7	4357.0
5°	11310.9	10593.7	9861.5	9120.4	8394.3	7674.1	6968.8	6290.5	5636.0	4999.5	4404.8
2.5°	11403.5	10704.3	9963.1	9213.1	8477.9	7748.8	7034.6	6347.2	5686.8	5044.3	4443.7
0°	11433.4	10704.3	9963.1	9213.1	8477.9	7748.8	7034.6	6347.2	5686.8	5044.3	4443.7

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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°	71.7	65.7	59.8	56.8	50.8	47.8	41.8	35.9	32.9	26.9	20.9
85°	143.4	131.5	122.5	113.6	104.6	92.6	83.7	74.7	62.8	53.8	41.8
82.5°	218.1	203.2	188.3	173.3	158.4	143.4	125.5	110.6	95.6	80.7	62.8
80°	301.8	277.9	257.0	236.1	215.2	194.2	170.3	149.4	125.5	104.6	83.7
77.5°	388.5	361.6	331.7	301.8	271.9	245.0	215.2	188.3	161.4	131.5	104.6
75°	481.1	445.3	412.4	373.5	337.7	298.8	263.0	227.1	194.2	161.4	125.5
72.5°	576.8	531.9	487.1	445.3	400.4	355.6	313.8	269.0	227.1	188.3	149.4
70°	675.4	621.6	567.8	517.0	466.2	412.4	364.6	313.8	263.0	215.2	170.3
67.5°	780.0	717.2	654.4	588.7	531.9	472.2	412.4	355.6	298.8	245.0	194.2
65°	893.5	818.8	741.1	672.4	597.7	531.9	466.2	400.4	337.7	271.9	215.2
62.5°	1010.1	923.4	836.7	750.1	672.4	588.7	517.0	445.3	373.5	301.8	236.1
60°	1129.6	1031.0	932.4	836.7	741.1	654.4	567.8	487.1	412.4	331.7	257.0
57.5°	1252.1	1141.5	1031.0	923.4	818.8	717.2	621.6	531.9	445.3	361.6	277.9
55°	1377.6	1252.1	1129.6	1010.1	893.5	780.0	675.4	576.8	481.1	388.5	301.8
52.5°	1503.1	1365.7	1228.2	1099.7	977.2	848.7	729.2	618.6	514.0	418.4	322.7
50°	1631.6	1476.2	1329.8	1186.4	1045.9	911.4	782.9	663.4	549.9	445.3	343.7
47.5°	1763.1	1592.8	1428.4	1273.0	1123.6	977.2	836.7	705.2	582.7	472.2	364.6
45°	1903.6	1706.3	1530.0	1362.7	1198.3	1042.9	890.5	747.1	618.6	499.1	385.5
42.5°	2041.0	1828.9	1631.6	1455.3	1273.0	1105.7	944.3	791.9	651.5	523.0	403.4
40°	2196.4	1951.4	1727.3	1533.0	1344.8	1165.5	995.1	833.7	684.3	546.9	421.4
37.5°	2345.9	2070.9	1834.8	1616.7	1413.5	1225.2	1045.9	875.6	717.2	570.8	439.3
35°	2498.3	2202.4	1933.5	1694.4	1482.2	1285.0	1093.7	914.4	744.1	591.7	457.2
32.5°	2653.7	2327.9	2038.1	1778.1	1551.0	1338.8	1138.6	950.3	774.0	615.6	472.2
30°	2803.1	2447.5	2136.7	1858.8	1613.7	1392.6	1183.4	986.2	803.9	636.5	487.1
27.5°	2955.5	2573.0	2235.3	1933.5	1673.5	1440.4	1222.2	1019.0	830.8	657.4	502.0
25°	3101.9	2692.5	2327.9	2005.2	1727.3	1488.2	1264.1	1051.9	854.7	675.4	514.0
22.5°	3236.4	2797.1	2411.6	2073.9	1784.0	1530.0	1299.9	1081.8	878.6	693.3	525.9
20°	3358.9	2904.7	2498.3	2142.6	1837.8	1571.9	1329.8	1108.7	899.5	708.2	537.9
17.5°	3478.4	3003.3	2576.0	2205.4	1882.7	1607.7	1359.7	1129.6	917.4	720.2	546.9
15°	3580.0	3089.9	2644.7	2259.2	1924.5	1637.6	1383.6	1150.5	932.4	732.1	552.8
12.5°	3669.7	3164.7	2704.5	2304.0	1957.4	1664.5	1407.5	1168.4	947.3	741.1	561.8
10°	3741.4	3224.4	2752.3	2342.9	1987.2	1685.4	1422.5	1183.4	956.3	750.1	567.8
7.5°	3798.2	3272.2	2791.1	2369.8	2008.2	1703.4	1437.4	1192.3	965.2	756.1	576.8
5°	3840.0	3308.1	2818.0	2390.7	2026.1	1724.3	1455.3	1207.3	977.2	765.0	576.8
2.5°	3872.9	3335.0	2838.9	2408.6	2038.1	1724.3	1455.3	1207.3	977.2	765.0	576.8
0°	3872.9	3335.0	2838.9	2408.6	2038.1	1724.3	1455.3	1207.3	977.2	765.0	576.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.9	12.0	6.0	0.0
85°	32.9	20.9	12.0	0.0
82.5°	47.8	32.9	14.9	0.0
80°	62.8	41.8	20.9	0.0
77.5°	80.7	53.8	26.9	0.0
75°	95.6	62.8	32.9	0.0
72.5°	110.6	74.7	35.9	0.0
70°	125.5	83.7	41.8	0.0
67.5°	143.4	92.6	47.8	0.0
65°	158.4	104.6	50.8	0.0
62.5°	173.3	113.6	56.8	0.0
60°	188.3	122.5	59.8	0.0
57.5°	203.2	131.5	65.7	0.0
55°	218.1	143.4	71.7	0.0
52.5°	233.1	152.4	74.7	0.0
50°	248.0	161.4	77.7	0.0
47.5°	260.0	170.3	83.7	0.0
45°	274.9	179.3	86.7	0.0
42.5°	289.9	185.3	89.7	0.0
40°	301.8	194.2	92.6	0.0
37.5°	316.8	200.2	98.6	0.0
35°	328.7	209.2	101.6	0.0
32.5°	337.7	215.2	104.6	0.0
30°	349.6	221.1	107.6	0.0
27.5°	358.6	227.1	107.6	0.0
25°	367.6	233.1	110.6	0.0
22.5°	376.5	236.1	113.6	0.0
20°	385.5	242.1	116.5	0.0
17.5°	391.5	245.0	116.5	0.0
15°	397.4	248.0	122.5	0.0
12.5°	400.4	251.0	122.5	0.0
10°	406.4	257.0	122.5	0.0
7.5°	412.4	257.0	122.5	0.0
5°	412.4	257.0	122.5	0.0
2.5°	412.4	257.0	122.5	0.0
0°	412.4	257.0	122.5	0.0

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