

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: P623835

Luminaire Tested: **IFLD-L-SA7E-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623835
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

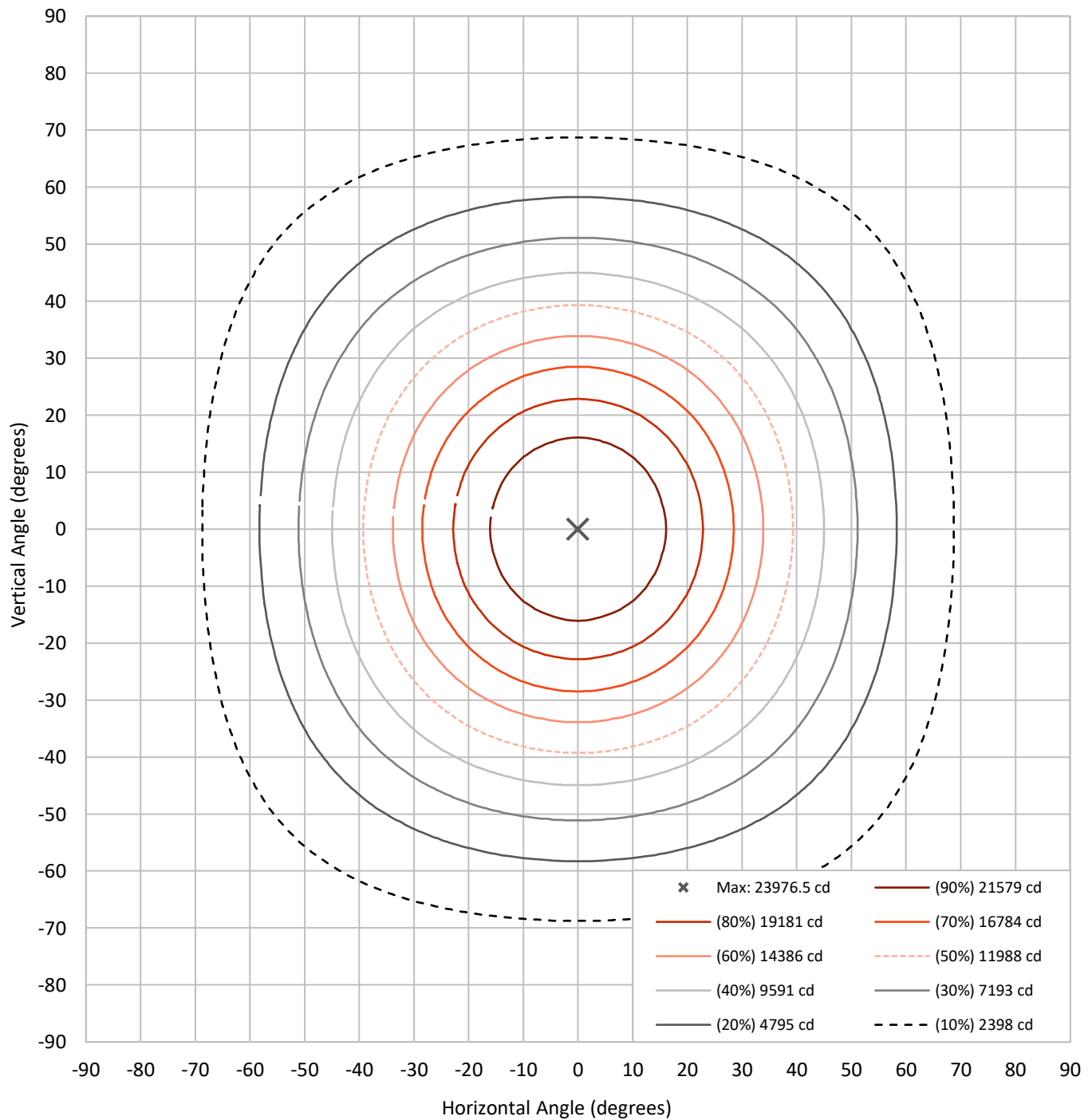
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43170.1 lumens	Max Intensity:	23976.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	81.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	18679.3 lumens	Field Lumens:	30586.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	532.7		
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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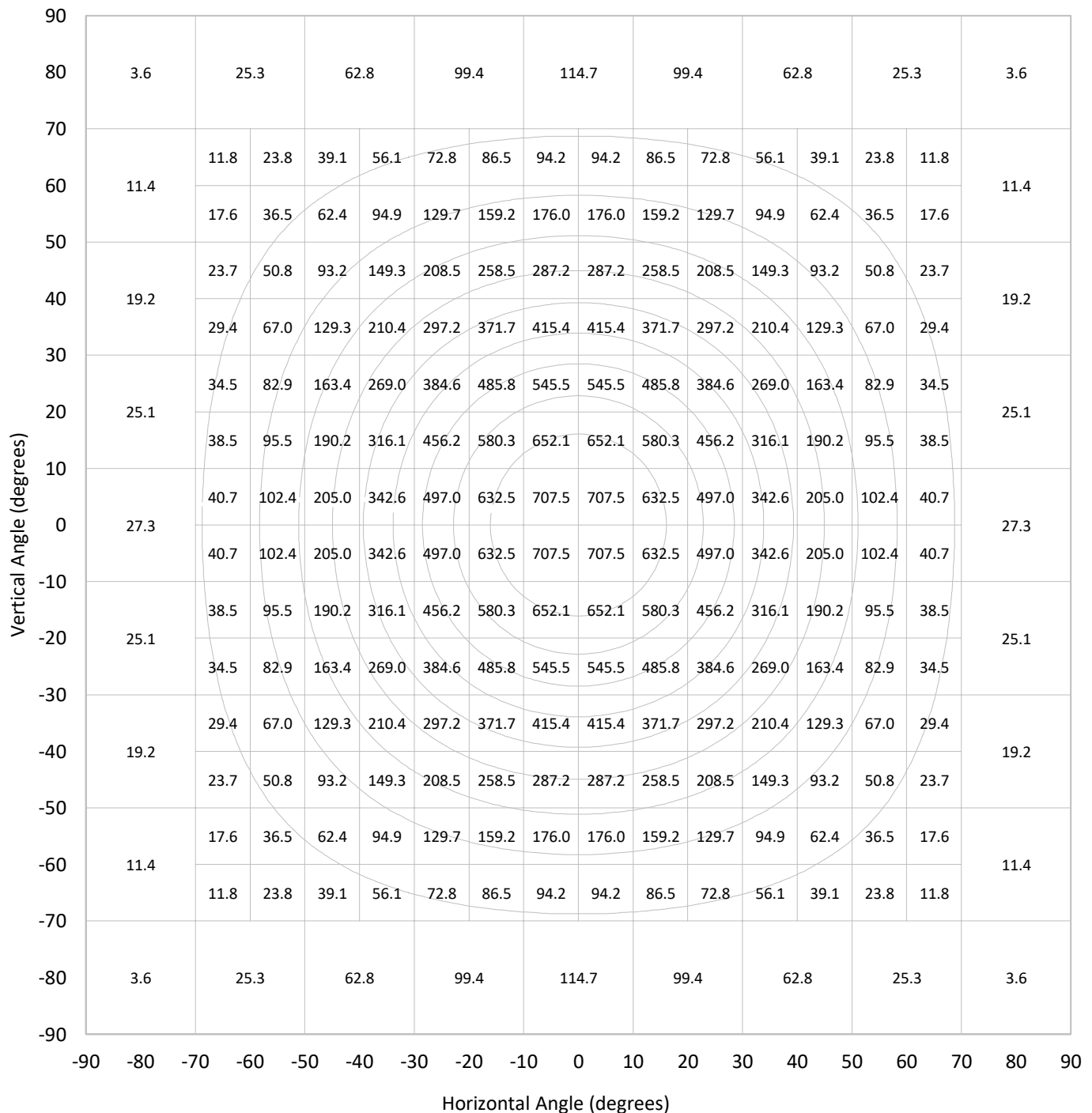
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Iso-Candela Plot



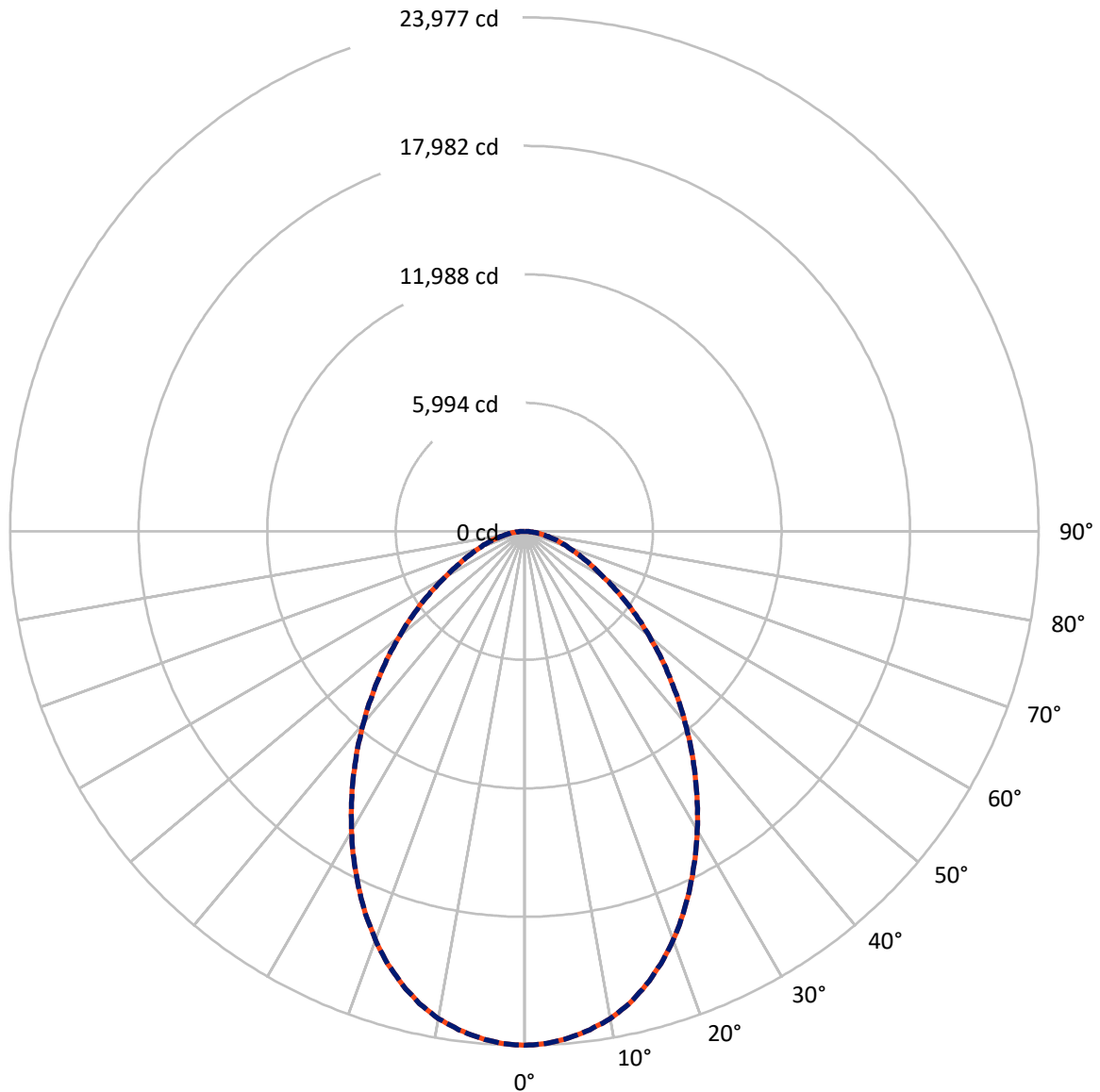
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Lumen Table



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Luminous Intensity Polar Plot

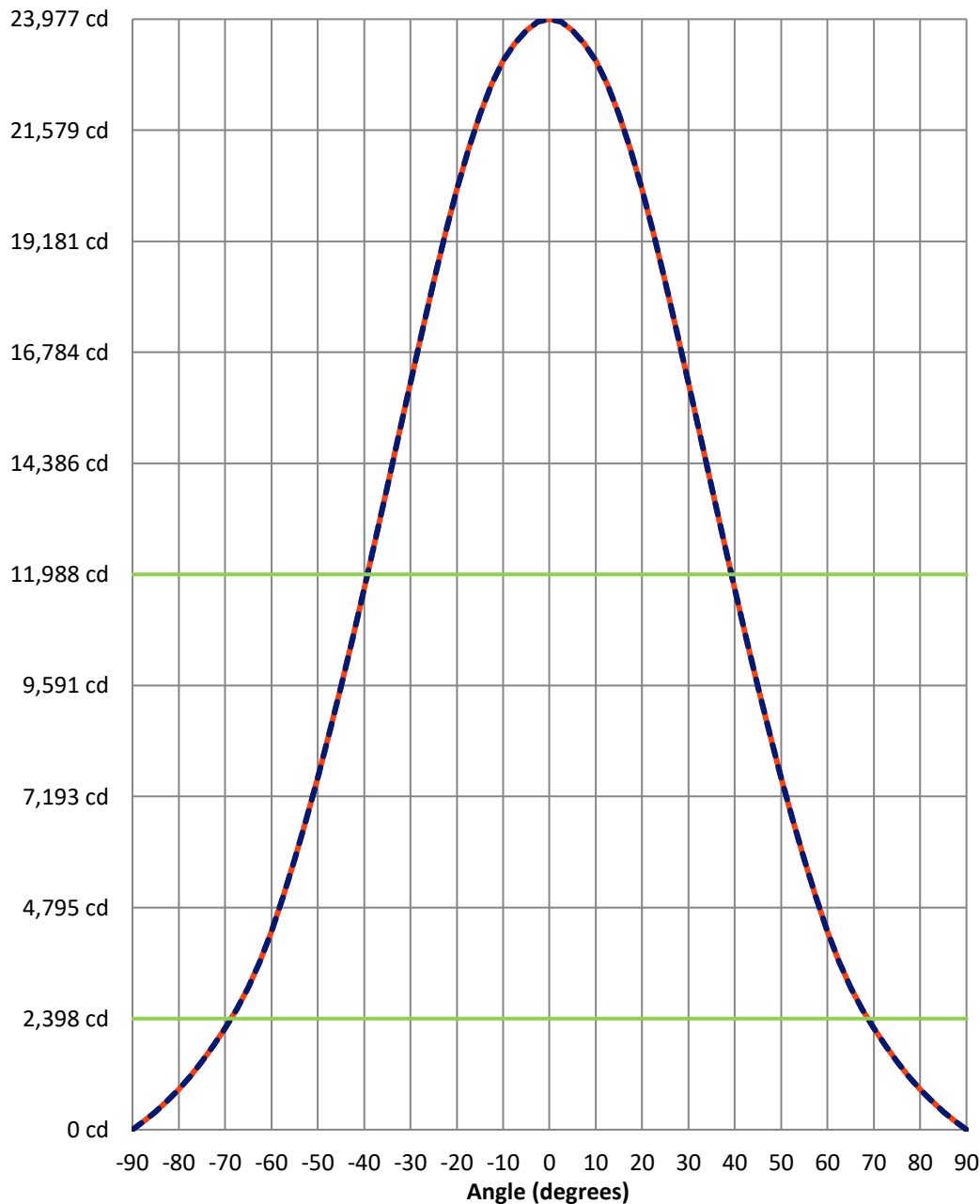


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18679.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 30586.7
Efficiency: 70.9%

Spill:

Lumens: 12583.4
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°	184.5	184.5	184.5	184.5	184.5	184.5	184.5	175.5	175.5	171.0	166.5
85°	387.1	387.1	387.1	387.1	387.1	378.1	373.6	369.1	364.6	355.6	351.1
82.5°	621.1	621.1	621.1	621.1	612.1	603.1	598.6	589.6	580.6	567.1	553.6
80°	868.7	868.7	868.7	868.7	855.2	846.2	832.7	823.7	810.2	792.2	774.2
77.5°	1152.2	1152.2	1152.2	1138.7	1129.7	1116.2	1102.7	1084.7	1066.7	1044.2	1017.2
75°	1471.8	1471.8	1471.8	1453.8	1440.3	1426.8	1404.3	1381.8	1354.8	1323.3	1287.3
72.5°	1818.4	1818.4	1818.4	1795.9	1782.4	1759.9	1732.9	1701.4	1669.8	1629.3	1584.3
70°	2192.0	2192.0	2192.0	2164.9	2142.4	2119.9	2083.9	2047.9	2002.9	1957.9	1903.9
67.5°	2597.0	2597.0	2597.0	2565.5	2538.5	2507.0	2466.5	2421.5	2367.5	2304.5	2241.5
65°	3069.6	3069.6	3051.6	3024.6	2993.1	2948.1	2898.6	2835.6	2768.1	2687.1	2601.5
62.5°	3627.8	3627.8	3600.7	3569.2	3528.7	3470.2	3402.7	3321.7	3227.2	3123.6	3020.1
60°	4275.9	4275.9	4244.4	4203.9	4145.4	4073.3	3983.3	3879.8	3762.8	3632.3	3506.2
57.5°	5023.0	5023.0	4982.5	4928.5	4856.5	4766.5	4654.0	4523.4	4374.9	4212.9	4055.3
55°	5833.2	5833.2	5783.7	5720.7	5635.2	5527.1	5392.1	5239.1	5059.0	4874.5	4672.0
52.5°	6692.9	6692.9	6634.4	6562.4	6463.3	6337.3	6184.3	6004.2	5797.2	5581.2	5342.6
50°	7597.6	7597.6	7530.1	7449.0	7336.5	7188.0	7012.5	6805.4	6575.9	6323.8	6049.3
47.5°	8565.3	8565.3	8488.8	8394.2	8259.2	8088.2	7881.1	7642.6	7381.5	7098.0	6787.4
45°	9560.0	9560.0	9474.5	9366.4	9217.9	9024.4	8794.8	8565.3	8232.2	7903.6	7543.6
42.5°	10595.2	10595.2	10496.2	10374.6	10203.6	9992.1	9731.0	9434.0	9105.4	8736.3	8344.7
40°	11670.9	11670.9	11558.4	11418.9	11229.8	10986.8	10694.2	10361.1	9992.1	9582.5	9150.4
37.5°	12769.1	12769.1	12643.1	12490.1	12278.5	12008.5	11679.9	11310.8	10896.8	10442.2	9965.1
35°	13876.4	13876.4	13736.8	13570.3	13336.3	13039.2	12683.6	12274.0	11814.9	11319.8	10784.2
32.5°	15006.1	15006.1	14853.1	14664.0	14398.5	14069.9	13678.3	13232.7	12769.1	12193.0	11607.9
30°	16122.3	16122.3	15955.8	15748.8	15465.2	15105.1	14677.5	14186.9	13642.3	13052.7	12422.6
27.5°	17220.6	17175.6	17036.0	16815.5	16504.9	16122.3	15658.7	15127.6	14538.0	13889.9	13214.7
25°	18300.8	18251.3	18098.2	17855.2	17522.1	17103.5	16603.9	16036.8	15402.2	14718.0	13979.9
22.5°	19336.0	19282.0	19120.0	18858.9	18503.3	18048.7	17513.1	16905.5	16230.4	15496.7	14718.0
20°	20294.7	20236.2	20069.7	19795.1	19426.0	18944.4	18377.3	17724.7	17004.5	16230.4	15402.2
17.5°	21158.9	21100.4	20924.8	20641.3	20294.7	19759.1	19174.0	18485.3	17724.7	16905.5	16036.8
15°	21919.5	21856.5	21676.5	21392.9	20996.8	20492.7	19876.1	19174.0	18377.3	17513.1	16603.9
12.5°	22567.7	22504.7	22320.1	22036.6	21627.0	21122.9	20492.7	19759.1	18944.4	18048.7	17103.5
10°	23080.8	23017.8	22842.2	22572.2	22149.1	21627.0	20996.8	20294.7	19426.0	18503.3	17522.1
7.5°	23449.9	23391.3	23229.3	22959.3	22572.2	22036.6	21392.9	20641.3	19795.1	18858.9	17855.2
5°	23728.9	23661.4	23499.4	23229.3	22842.2	22320.1	21676.5	20924.8	20069.7	19120.0	18098.2
2.5°	23922.4	23841.4	23661.4	23391.3	23017.8	22504.7	21856.5	21100.4	20236.2	19282.0	18251.3
0°	23976.5	23922.4	23728.9	23449.9	23080.8	22567.7	21919.5	21158.9	20294.7	19336.0	18300.8

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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°	162.0	162.0	157.5	153.0	148.5	139.5	135.0	130.5	126.0	117.0	112.5
85°	342.1	333.1	324.1	315.1	301.6	292.6	279.1	270.1	256.6	243.1	229.5
82.5°	540.1	526.6	508.6	495.1	477.1	454.6	436.6	414.1	391.6	373.6	351.1
80°	756.2	733.7	711.1	688.6	661.6	634.6	607.6	580.6	549.1	517.6	486.1
77.5°	990.2	958.7	927.2	891.2	859.7	823.7	787.7	751.7	711.1	670.6	630.1
75°	1251.3	1210.8	1165.7	1120.7	1080.2	1030.7	981.2	931.7	877.7	828.2	774.2
72.5°	1534.8	1485.3	1431.3	1377.3	1318.8	1255.8	1192.7	1125.2	1062.2	999.2	931.7
70°	1840.9	1782.4	1714.9	1647.3	1575.3	1498.8	1422.3	1341.3	1260.3	1179.2	1098.2
67.5°	2169.4	2097.4	2016.4	1935.4	1845.4	1755.4	1665.3	1570.8	1471.8	1372.8	1278.3
65°	2520.5	2430.5	2336.0	2232.5	2128.9	2025.4	1917.4	1804.9	1692.4	1575.3	1471.8
62.5°	2912.1	2799.6	2678.1	2552.0	2435.0	2309.0	2192.0	2052.4	1917.4	1786.9	1656.3
60°	3366.7	3218.2	3069.6	2912.1	2763.6	2601.5	2457.5	2304.5	2151.4	2002.9	1849.9
57.5°	3875.3	3686.3	3506.2	3317.2	3119.1	2939.1	2754.6	2570.0	2399.0	2223.5	2056.9
55°	4451.4	4221.9	3996.8	3762.8	3533.2	3308.2	3074.1	2867.1	2655.5	2457.5	2264.0
52.5°	5081.6	4820.5	4541.4	4275.9	3983.3	3704.3	3443.2	3182.2	2934.6	2696.1	2475.5
50°	5756.7	5450.6	5131.1	4807.0	4473.9	4145.4	3830.3	3524.2	3236.2	2957.1	2696.1
47.5°	6458.8	6112.3	5747.7	5378.6	5023.0	4622.5	4244.4	3897.8	3551.2	3236.2	2934.6
45°	7179.0	6787.4	6386.8	5968.2	5549.6	5117.6	4699.0	4275.9	3897.8	3524.2	3182.2
42.5°	7921.6	7480.5	7035.0	6571.4	6107.8	5635.2	5162.6	4699.0	4244.4	3830.3	3443.2
40°	8686.8	8200.7	7692.1	7188.0	6692.9	6152.8	5635.2	5117.6	4622.5	4145.4	3704.3
37.5°	9452.0	8920.8	8371.7	7804.6	7237.5	6692.9	6107.8	5549.6	5023.0	4473.9	3983.3
35°	10221.6	9636.5	9042.4	8425.7	7804.6	7188.0	6571.4	5968.2	5378.6	4807.0	4275.9
32.5°	10995.8	10356.6	9699.5	9042.4	8371.7	7692.1	7035.0	6386.8	5747.7	5131.1	4541.4
30°	11756.4	11063.3	10356.6	9636.5	8920.8	8200.7	7480.5	6787.4	6112.3	5450.6	4820.5
27.5°	12499.1	11756.4	10995.8	10221.6	9452.0	8686.8	7921.6	7179.0	6458.8	5756.7	5081.6
25°	13214.7	12422.6	11607.9	10784.2	9965.1	9150.4	8344.7	7543.6	6787.4	6049.3	5342.6
22.5°	13889.9	13052.7	12193.0	11319.8	10442.2	9582.5	8736.3	7903.6	7098.0	6323.8	5581.2
20°	14538.0	13642.3	12769.1	11814.9	10896.8	9992.1	9105.4	8232.2	7381.5	6575.9	5797.2
17.5°	15127.6	14186.9	13232.7	12274.0	11310.8	10361.1	9434.0	8565.3	7642.6	6805.4	6004.2
15°	15658.7	14677.5	13678.3	12683.6	11679.9	10694.2	9731.0	8794.8	7881.1	7012.5	6184.3
12.5°	16122.3	15105.1	14069.9	13039.2	12008.5	10986.8	9992.1	9024.4	8088.2	7188.0	6337.3
10°	16504.9	15465.2	14398.5	13336.3	12278.5	11229.8	10203.6	9217.9	8259.2	7336.5	6463.3
7.5°	16815.5	15748.8	14664.0	13570.3	12490.1	11418.9	10374.6	9366.4	8394.2	7449.0	6562.4
5°	17036.0	15955.8	14853.1	13736.8	12643.1	11558.4	10496.2	9474.5	8488.8	7530.1	6634.4
2.5°	17175.6	16122.3	15006.1	13876.4	12769.1	11670.9	10595.2	9560.0	8565.3	7597.6	6692.9
0°	17220.6	16122.3	15006.1	13876.4	12769.1	11670.9	10595.2	9560.0	8565.3	7597.6	6692.9

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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°	108.0	99.0	90.0	85.5	76.5	72.0	63.0	54.0	49.5	40.5	31.5
85°	216.0	198.0	184.5	171.0	157.5	139.5	126.0	112.5	94.5	81.0	63.0
82.5°	328.6	306.1	283.6	261.1	238.5	216.0	189.0	166.5	144.0	121.5	94.5
80°	454.6	418.6	387.1	355.6	324.1	292.6	256.6	225.0	189.0	157.5	126.0
77.5°	585.1	544.6	499.6	454.6	409.6	369.1	324.1	283.6	243.1	198.0	157.5
75°	724.6	670.6	621.1	562.6	508.6	450.1	396.1	342.1	292.6	243.1	189.0
72.5°	868.7	801.2	733.7	670.6	603.1	535.6	472.6	405.1	342.1	283.6	225.0
70°	1017.2	936.2	855.2	778.7	702.1	621.1	549.1	472.6	396.1	324.1	256.6
67.5°	1174.7	1080.2	985.7	886.7	801.2	711.1	621.1	535.6	450.1	369.1	292.6
65°	1345.8	1233.3	1116.2	1012.7	900.2	801.2	702.1	603.1	508.6	409.6	324.1
62.5°	1521.3	1390.8	1260.3	1129.7	1012.7	886.7	778.7	670.6	562.6	454.6	355.6
60°	1701.4	1552.8	1404.3	1260.3	1116.2	985.7	855.2	733.7	621.1	499.6	387.1
57.5°	1885.9	1719.4	1552.8	1390.8	1233.3	1080.2	936.2	801.2	670.6	544.6	418.6
55°	2074.9	1885.9	1701.4	1521.3	1345.8	1174.7	1017.2	868.7	724.6	585.1	454.6
52.5°	2264.0	2056.9	1849.9	1656.3	1471.8	1278.3	1098.2	931.7	774.2	630.1	486.1
50°	2457.5	2223.5	2002.9	1786.9	1575.3	1372.8	1179.2	999.2	828.2	670.6	517.6
47.5°	2655.5	2399.0	2151.4	1917.4	1692.4	1471.8	1260.3	1062.2	877.7	711.1	549.1
45°	2867.1	2570.0	2304.5	2052.4	1804.9	1570.8	1341.3	1125.2	931.7	751.7	580.6
42.5°	3074.1	2754.6	2457.5	2192.0	1917.4	1665.3	1422.3	1192.7	981.2	787.7	607.6
40°	3308.2	2939.1	2601.5	2309.0	2025.4	1755.4	1498.8	1255.8	1030.7	823.7	634.6
37.5°	3533.2	3119.1	2763.6	2435.0	2128.9	1845.4	1575.3	1318.8	1080.2	859.7	661.6
35°	3762.8	3317.2	2912.1	2552.0	2232.5	1935.4	1647.3	1377.3	1120.7	891.2	688.6
32.5°	3996.8	3506.2	3069.6	2678.1	2336.0	2016.4	1714.9	1431.3	1165.7	927.2	711.1
30°	4221.9	3686.3	3218.2	2799.6	2430.5	2097.4	1782.4	1485.3	1210.8	958.7	733.7
27.5°	4451.4	3875.3	3366.7	2912.1	2520.5	2169.4	1840.9	1534.8	1251.3	990.2	756.2
25°	4672.0	4055.3	3506.2	3020.1	2601.5	2241.5	1903.9	1584.3	1287.3	1017.2	774.2
22.5°	4874.5	4212.9	3632.3	3123.6	2687.1	2304.5	1957.9	1629.3	1323.3	1044.2	792.2
20°	5059.0	4374.9	3762.8	3227.2	2768.1	2367.5	2002.9	1669.8	1354.8	1066.7	810.2
17.5°	5239.1	4523.4	3879.8	3321.7	2835.6	2421.5	2047.9	1701.4	1381.8	1084.7	823.7
15°	5392.1	4654.0	3983.3	3402.7	2898.6	2466.5	2083.9	1732.9	1404.3	1102.7	832.7
12.5°	5527.1	4766.5	4073.3	3470.2	2948.1	2507.0	2119.9	1759.9	1426.8	1116.2	846.2
10°	5635.2	4856.5	4145.4	3528.7	2993.1	2538.5	2142.4	1782.4	1440.3	1129.7	855.2
7.5°	5720.7	4928.5	4203.9	3569.2	3024.6	2565.5	2164.9	1795.9	1453.8	1138.7	868.7
5°	5783.7	4982.5	4244.4	3600.7	3051.6	2597.0	2192.0	1818.4	1471.8	1152.2	868.7
2.5°	5833.2	5023.0	4275.9	3627.8	3069.6	2597.0	2192.0	1818.4	1471.8	1152.2	868.7
0°	5833.2	5023.0	4275.9	3627.8	3069.6	2597.0	2192.0	1818.4	1471.8	1152.2	868.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.5	18.0	9.0	0.0
85°	49.5	31.5	18.0	0.0
82.5°	72.0	49.5	22.5	0.0
80°	94.5	63.0	31.5	0.0
77.5°	121.5	81.0	40.5	0.0
75°	144.0	94.5	49.5	0.0
72.5°	166.5	112.5	54.0	0.0
70°	189.0	126.0	63.0	0.0
67.5°	216.0	139.5	72.0	0.0
65°	238.5	157.5	76.5	0.0
62.5°	261.1	171.0	85.5	0.0
60°	283.6	184.5	90.0	0.0
57.5°	306.1	198.0	99.0	0.0
55°	328.6	216.0	108.0	0.0
52.5°	351.1	229.5	112.5	0.0
50°	373.6	243.1	117.0	0.0
47.5°	391.6	256.6	126.0	0.0
45°	414.1	270.1	130.5	0.0
42.5°	436.6	279.1	135.0	0.0
40°	454.6	292.6	139.5	0.0
37.5°	477.1	301.6	148.5	0.0
35°	495.1	315.1	153.0	0.0
32.5°	508.6	324.1	157.5	0.0
30°	526.6	333.1	162.0	0.0
27.5°	540.1	342.1	162.0	0.0
25°	553.6	351.1	166.5	0.0
22.5°	567.1	355.6	171.0	0.0
20°	580.6	364.6	175.5	0.0
17.5°	589.6	369.1	175.5	0.0
15°	598.6	373.6	184.5	0.0
12.5°	603.1	378.1	184.5	0.0
10°	612.1	387.1	184.5	0.0
7.5°	621.1	387.1	184.5	0.0
5°	621.1	387.1	184.5	0.0
2.5°	621.1	387.1	184.5	0.0
0°	621.1	387.1	184.5	0.0

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