

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: P623838

Luminaire Tested: **IFLD-L-SA8C-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623838
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

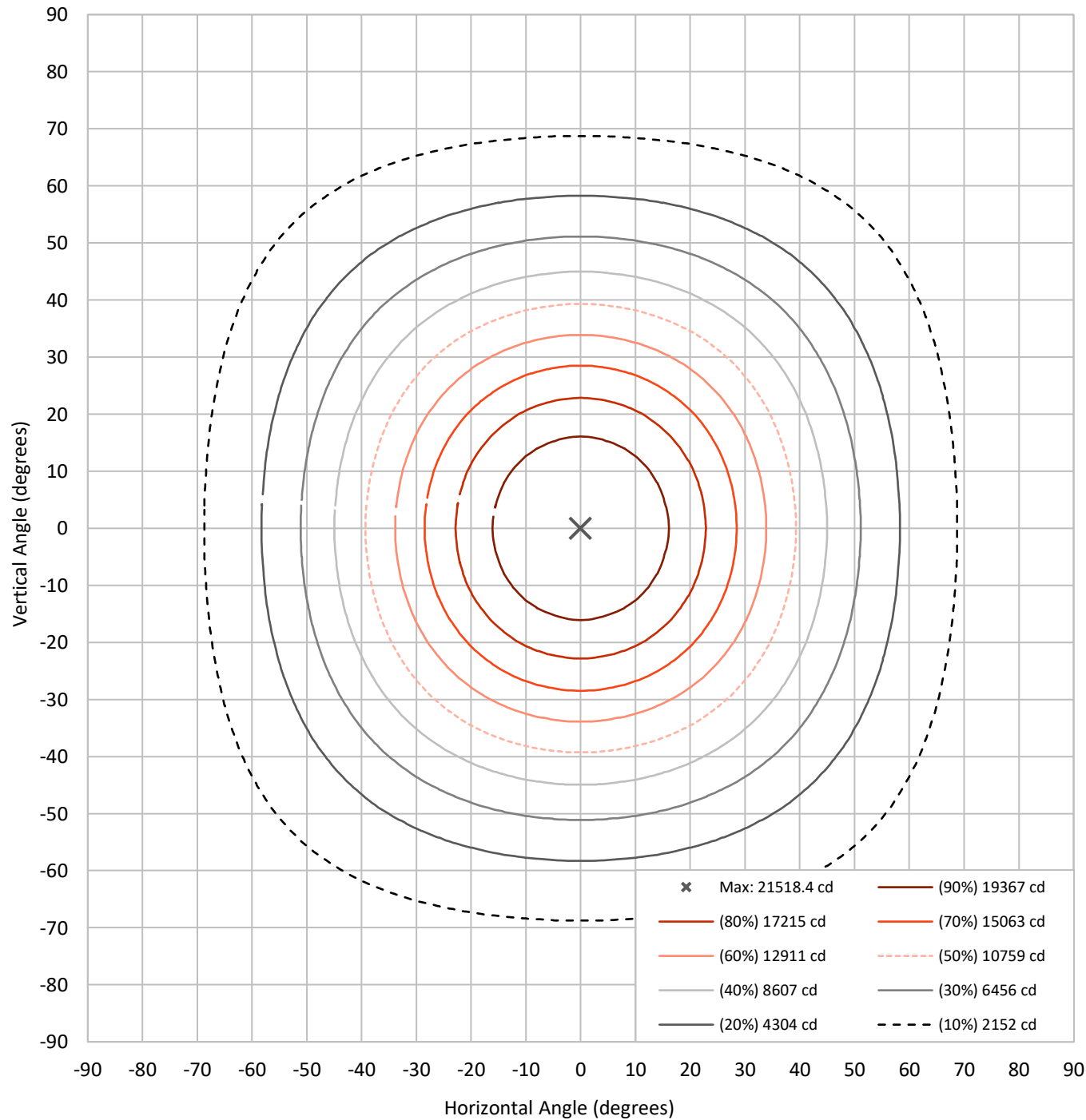
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38744.3 lumens	Max Intensity:	21518.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	92.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16764.3 lumens	Field Lumens:	27450.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	420.3		
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		





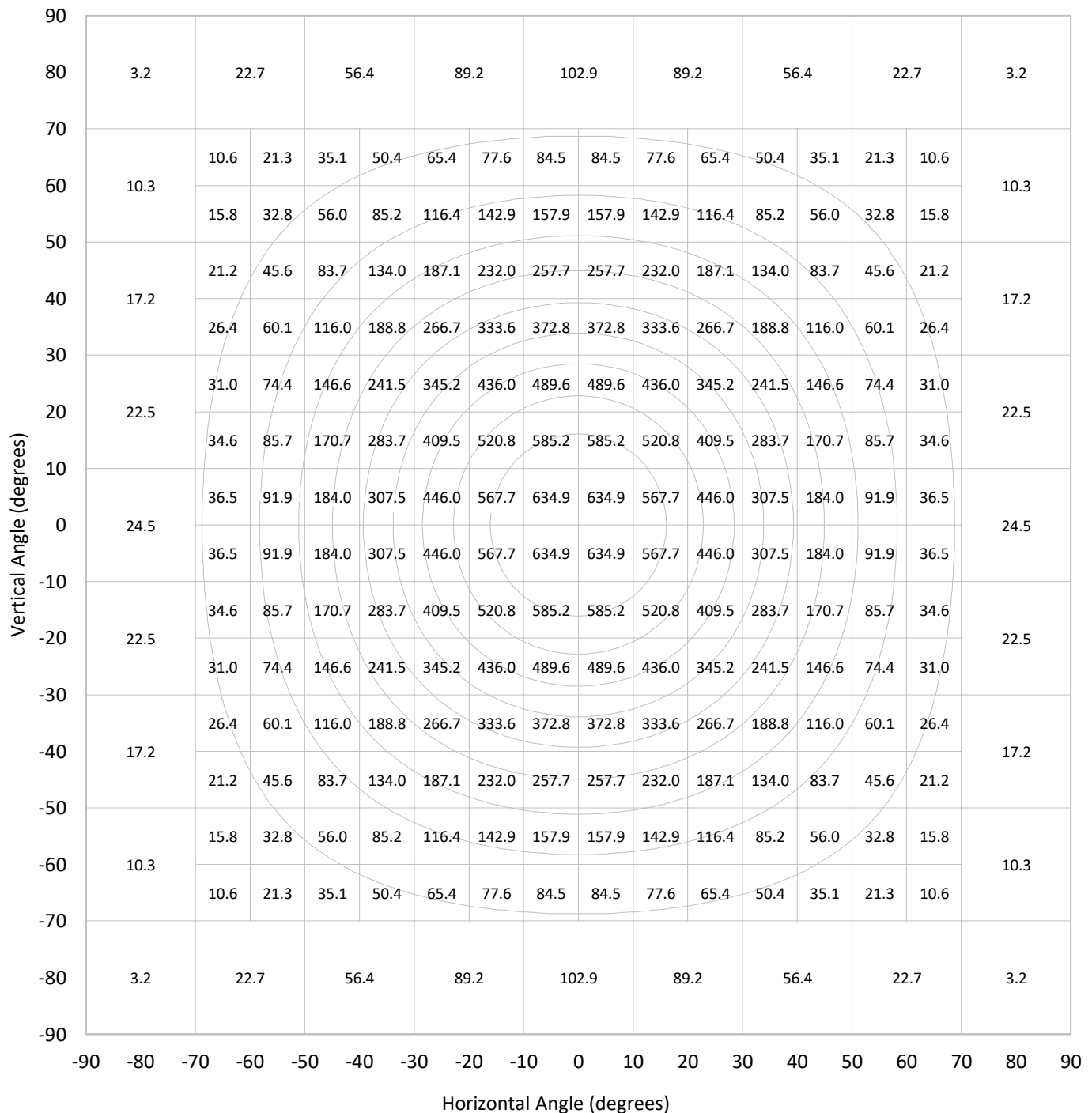
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Iso-Candela Plot



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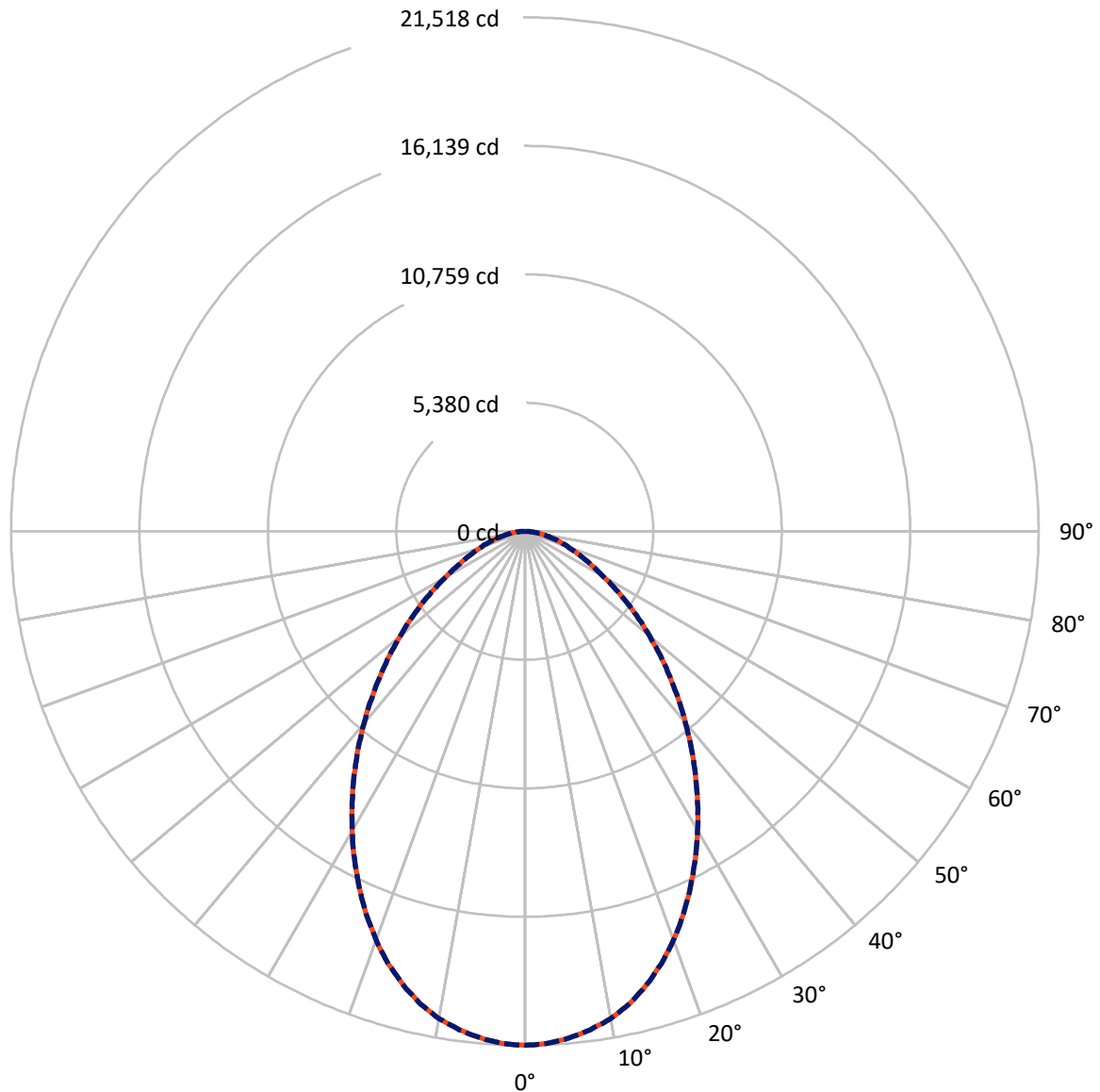
Lumen Table



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Luminous Intensity Polar Plot

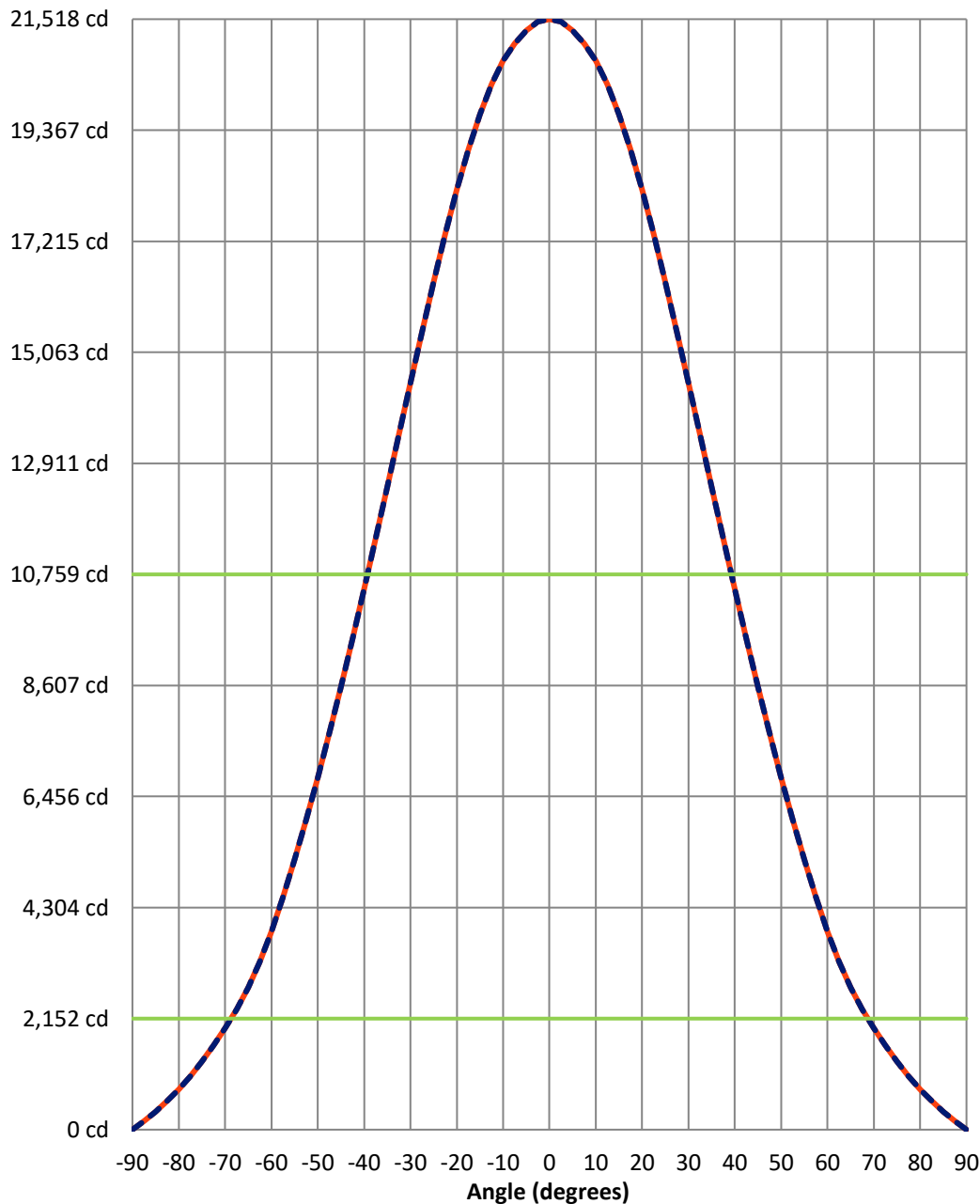


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16764.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 27450.9
Efficiency: 70.9%

Spill:

Lumens: 11293.4
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°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	157.5	157.5	153.5	149.5
85°	347.4	347.4	347.4	347.4	347.4	339.3	335.3	331.2	327.2	319.1	315.1
82.5°	557.4	557.4	557.4	557.4	549.4	541.3	537.3	529.2	521.1	509.0	496.9
80°	779.6	779.6	779.6	779.6	767.5	759.4	747.3	739.2	727.1	711.0	694.8
77.5°	1034.1	1034.1	1034.1	1022.0	1013.9	1001.8	989.7	973.5	957.4	937.2	912.9
75°	1320.9	1320.9	1320.9	1304.8	1292.6	1280.5	1260.3	1240.1	1215.9	1187.6	1155.3
72.5°	1632.0	1632.0	1632.0	1611.8	1599.6	1579.4	1555.2	1526.9	1498.7	1462.3	1421.9
70°	1967.2	1967.2	1967.2	1943.0	1922.8	1902.6	1870.3	1838.0	1797.6	1757.2	1708.7
67.5°	2330.8	2330.8	2330.8	2302.5	2278.3	2250.0	2213.6	2173.2	2124.8	2068.2	2011.7
65°	2754.9	2754.9	2738.8	2714.5	2686.3	2645.9	2601.4	2544.9	2484.3	2411.6	2334.8
62.5°	3255.8	3255.8	3231.6	3203.3	3167.0	3114.4	3053.9	2981.1	2896.3	2803.4	2710.5
60°	3837.5	3837.5	3809.2	3772.9	3720.4	3655.7	3574.9	3482.0	3377.0	3259.9	3146.8
57.5°	4508.1	4508.1	4471.7	4423.2	4358.6	4277.8	4176.8	4059.7	3926.4	3781.0	3639.6
55°	5235.2	5235.2	5190.7	5134.2	5057.4	4960.5	4839.3	4702.0	4540.4	4374.8	4193.0
52.5°	6006.7	6006.7	5954.2	5889.6	5800.7	5687.6	5550.3	5388.7	5202.9	5009.0	4794.9
50°	6818.7	6818.7	6758.1	6685.4	6584.4	6451.1	6293.5	6107.7	5901.7	5675.5	5429.1
47.5°	7687.2	7687.2	7618.5	7533.7	7412.5	7259.0	7073.1	6859.1	6624.8	6370.3	6091.6
45°	8579.9	8579.9	8503.1	8406.2	8272.9	8099.2	7893.2	7687.2	7388.2	7093.3	6770.2
42.5°	9509.0	9509.0	9420.1	9311.0	9157.5	8967.7	8733.4	8466.8	8171.9	7840.7	7489.2
40°	10474.4	10474.4	10373.4	10248.2	10078.5	9860.4	9597.8	9298.9	8967.7	8600.1	8212.3
37.5°	11460.0	11460.0	11346.9	11209.6	11019.7	10777.4	10482.5	10151.2	9779.6	9371.6	8943.4
35°	12453.8	12453.8	12328.5	12179.1	11969.0	11702.4	11383.3	11015.7	10603.7	10159.3	9678.6
32.5°	13467.7	13467.7	13330.3	13160.7	12922.3	12627.4	12276.0	11876.1	11460.0	10943.0	10417.8
30°	14469.5	14469.5	14320.0	14134.2	13879.7	13556.5	13172.8	12732.5	12243.7	11714.5	11149.0
27.5°	15455.1	15414.7	15289.5	15091.5	14812.8	14469.5	14053.4	13576.7	13047.6	12465.9	11859.9
25°	16424.6	16380.1	16242.8	16024.7	15725.7	15350.1	14901.7	14392.7	13823.1	13209.1	12546.7
22.5°	17353.7	17305.2	17159.8	16925.5	16606.3	16198.4	15717.7	15172.3	14566.4	13908.0	13209.1
20°	18214.1	18161.6	18012.1	17765.7	17434.4	17002.2	16493.2	15907.5	15261.2	14566.4	13823.1
17.5°	18989.6	18937.1	18779.6	18525.1	18214.1	17733.4	17208.2	16590.2	15907.5	15172.3	14392.7
15°	19672.3	19615.8	19454.2	19199.7	18844.2	18391.8	17838.4	17208.2	16493.2	15717.7	14901.7
12.5°	20254.0	20197.5	20031.8	19777.3	19409.8	18957.3	18391.8	17733.4	17002.2	16198.4	15350.1
10°	20714.5	20658.0	20500.4	20258.0	19878.3	19409.8	18844.2	18214.1	17434.4	16606.3	15725.7
7.5°	21045.7	20993.2	20847.8	20605.4	20258.0	19777.3	19199.7	18525.1	17765.7	16925.5	16024.7
5°	21296.2	21235.6	21090.2	20847.8	20500.4	20031.8	19454.2	18779.6	18012.1	17159.8	16242.8
2.5°	21469.9	21397.2	21235.6	20993.2	20658.0	20197.5	19615.8	18937.1	18161.6	17305.2	16380.1
0°	21518.4	21469.9	21296.2	21045.7	20714.5	20254.0	19672.3	18989.6	18214.1	17353.7	16424.6

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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°	145.4	145.4	141.4	137.3	133.3	125.2	121.2	117.1	113.1	105.0	101.0
85°	307.0	298.9	290.8	282.8	270.6	262.6	250.4	242.4	230.3	218.1	206.0
82.5°	484.7	472.6	456.5	444.3	428.2	408.0	391.8	371.6	351.4	335.3	315.1
80°	678.6	658.4	638.2	618.0	593.8	569.6	545.3	521.1	492.8	464.5	436.3
77.5°	888.7	860.4	832.1	799.8	771.5	739.2	706.9	674.6	638.2	601.9	565.5
75°	1123.0	1086.6	1046.2	1005.8	969.5	925.0	880.6	836.2	787.7	743.3	694.8
72.5°	1377.5	1333.0	1284.6	1236.1	1183.6	1127.0	1070.5	1009.9	953.3	896.8	836.2
70°	1652.2	1599.6	1539.0	1478.5	1413.8	1345.2	1276.5	1203.8	1131.1	1058.3	985.6
67.5°	1947.0	1882.4	1809.7	1737.0	1656.2	1575.4	1494.6	1409.8	1320.9	1232.0	1147.2
65°	2262.1	2181.3	2096.5	2003.6	1910.7	1817.8	1720.8	1619.8	1518.8	1413.8	1320.9
62.5°	2613.6	2512.6	2403.5	2290.4	2185.4	2072.3	1967.2	1842.0	1720.8	1603.7	1486.5
60°	3021.5	2888.2	2754.9	2613.6	2480.2	2334.8	2205.6	2068.2	1930.9	1797.6	1660.2
57.5°	3478.0	3308.3	3146.8	2977.1	2799.4	2637.8	2472.2	2306.5	2153.0	1995.5	1846.0
55°	3995.1	3789.0	3587.1	3377.0	3171.0	2969.0	2759.0	2573.2	2383.3	2205.6	2031.9
52.5°	4560.6	4326.3	4075.8	3837.5	3574.9	3324.5	3090.2	2855.9	2633.7	2419.7	2221.7
50°	5166.5	4891.8	4605.0	4314.2	4015.3	3720.4	3437.6	3162.9	2904.4	2653.9	2419.7
47.5°	5796.7	5485.6	5158.4	4827.2	4508.1	4148.6	3809.2	3498.2	3187.2	2904.4	2633.7
45°	6443.0	6091.6	5732.0	5356.4	4980.7	4592.9	4217.2	3837.5	3498.2	3162.9	2855.9
42.5°	7109.5	6713.6	6313.7	5897.7	5481.6	5057.4	4633.3	4217.2	3809.2	3437.6	3090.2
40°	7796.2	7360.0	6903.5	6451.1	6006.7	5522.0	5057.4	4592.9	4148.6	3720.4	3324.5
37.5°	8482.9	8006.3	7513.5	7004.5	6495.5	6006.7	5481.6	4980.7	4508.1	4015.3	3574.9
35°	9173.7	8648.6	8115.3	7561.9	7004.5	6451.1	5897.7	5356.4	4827.2	4314.2	3837.5
32.5°	9868.5	9294.9	8705.1	8115.3	7513.5	6903.5	6313.7	5732.0	5158.4	4605.0	4075.8
30°	10551.2	9929.1	9294.9	8648.6	8006.3	7360.0	6713.6	6091.6	5485.6	4891.8	4326.3
27.5°	11217.7	10551.2	9868.5	9173.7	8482.9	7796.2	7109.5	6443.0	5796.7	5166.5	4560.6
25°	11859.9	11149.0	10417.8	9678.6	8943.4	8212.3	7489.2	6770.2	6091.6	5429.1	4794.9
22.5°	12465.9	11714.5	10943.0	10159.3	9371.6	8600.1	7840.7	7093.3	6370.3	5675.5	5009.0
20°	13047.6	12243.7	11460.0	10603.7	9779.6	8967.7	8171.9	7388.2	6624.8	5901.7	5202.9
17.5°	13576.7	12732.5	11876.1	11015.7	10151.2	9298.9	8466.8	7687.2	6859.1	6107.7	5388.7
15°	14053.4	13172.8	12276.0	11383.3	10482.5	9597.8	8733.4	7893.2	7073.1	6293.5	5550.3
12.5°	14469.5	13556.5	12627.4	11702.4	10777.4	9860.4	8967.7	8099.2	7259.0	6451.1	5687.6
10°	14812.8	13879.7	12922.3	11969.0	11019.7	10078.5	9157.5	8272.9	7412.5	6584.4	5800.7
7.5°	15091.5	14134.2	13160.7	12179.1	11209.6	10248.2	9311.0	8406.2	7533.7	6685.4	5889.6
5°	15289.5	14320.0	13330.3	12328.5	11346.9	10373.4	9420.1	8503.1	7618.5	6758.1	5954.2
2.5°	15414.7	14469.5	13467.7	12453.8	11460.0	10474.4	9509.0	8579.9	7687.2	6818.7	6006.7
0°	15455.1	14469.5	13467.7	12453.8	11460.0	10474.4	9509.0	8579.9	7687.2	6818.7	6006.7

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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°	96.9	88.9	80.8	76.8	68.7	64.6	56.6	48.5	44.4	36.4	28.3
85°	193.9	177.7	165.6	153.5	141.4	125.2	113.1	101.0	84.8	72.7	56.6
82.5°	294.9	274.7	254.5	234.3	214.1	193.9	169.7	149.5	129.3	109.1	84.8
80°	408.0	375.7	347.4	319.1	290.8	262.6	230.3	202.0	169.7	141.4	113.1
77.5°	525.1	488.8	448.4	408.0	367.6	331.2	290.8	254.5	218.1	177.7	141.4
75°	650.4	601.9	557.4	504.9	456.5	403.9	355.5	307.0	262.6	218.1	169.7
72.5°	779.6	719.0	658.4	601.9	541.3	480.7	424.1	363.6	307.0	254.5	202.0
70°	912.9	840.2	767.5	698.8	630.2	557.4	492.8	424.1	355.5	290.8	230.3
67.5°	1054.3	969.5	884.6	795.8	719.0	638.2	557.4	480.7	403.9	331.2	262.6
65°	1207.8	1106.8	1001.8	908.9	807.9	719.0	630.2	541.3	456.5	367.6	290.8
62.5°	1365.3	1248.2	1131.1	1013.9	908.9	795.8	698.8	601.9	504.9	408.0	319.1
60°	1526.9	1393.6	1260.3	1131.1	1001.8	884.6	767.5	658.4	557.4	448.4	347.4
57.5°	1692.5	1543.1	1393.6	1248.2	1106.8	969.5	840.2	719.0	601.9	488.8	375.7
55°	1862.2	1692.5	1526.9	1365.3	1207.8	1054.3	912.9	779.6	650.4	525.1	408.0
52.5°	2031.9	1846.0	1660.2	1486.5	1320.9	1147.2	985.6	836.2	694.8	565.5	436.3
50°	2205.6	1995.5	1797.6	1603.7	1413.8	1232.0	1058.3	896.8	743.3	601.9	464.5
47.5°	2383.3	2153.0	1930.9	1720.8	1518.8	1320.9	1131.1	953.3	787.7	638.2	492.8
45°	2573.2	2306.5	2068.2	1842.0	1619.8	1409.8	1203.8	1009.9	836.2	674.6	521.1
42.5°	2759.0	2472.2	2205.6	1967.2	1720.8	1494.6	1276.5	1070.5	880.6	706.9	545.3
40°	2969.0	2637.8	2334.8	2072.3	1817.8	1575.4	1345.2	1127.0	925.0	739.2	569.6
37.5°	3171.0	2799.4	2480.2	2185.4	1910.7	1656.2	1413.8	1183.6	969.5	771.5	593.8
35°	3377.0	2977.1	2613.6	2290.4	2003.6	1737.0	1478.5	1236.1	1005.8	799.8	618.0
32.5°	3587.1	3146.8	2754.9	2403.5	2096.5	1809.7	1539.0	1284.6	1046.2	832.1	638.2
30°	3789.0	3308.3	2888.2	2512.6	2181.3	1882.4	1599.6	1333.0	1086.6	860.4	658.4
27.5°	3995.1	3478.0	3021.5	2613.6	2262.1	1947.0	1652.2	1377.5	1123.0	888.7	678.6
25°	4193.0	3639.6	3146.8	2710.5	2334.8	2011.7	1708.7	1421.9	1155.3	912.9	694.8
22.5°	4374.8	3781.0	3259.9	2803.4	2411.6	2068.2	1757.2	1462.3	1187.6	937.2	711.0
20°	4540.4	3926.4	3377.0	2896.3	2484.3	2124.8	1797.6	1498.7	1215.9	957.4	727.1
17.5°	4702.0	4059.7	3482.0	2981.1	2544.9	2173.2	1838.0	1526.9	1240.1	973.5	739.2
15°	4839.3	4176.8	3574.9	3053.9	2601.4	2213.6	1870.3	1555.2	1260.3	989.7	747.3
12.5°	4960.5	4277.8	3655.7	3114.4	2645.9	2250.0	1902.6	1579.4	1280.5	1001.8	759.4
10°	5057.4	4358.6	3720.4	3167.0	2686.3	2278.3	1922.8	1599.6	1292.6	1013.9	767.5
7.5°	5134.2	4423.2	3772.9	3203.3	2714.5	2302.5	1943.0	1611.8	1304.8	1022.0	779.6
5°	5190.7	4471.7	3809.2	3231.6	2738.8	2330.8	1967.2	1632.0	1320.9	1034.1	779.6
2.5°	5235.2	4508.1	3837.5	3255.8	2754.9	2330.8	1967.2	1632.0	1320.9	1034.1	779.6
0°	5235.2	4508.1	3837.5	3255.8	2754.9	2330.8	1967.2	1632.0	1320.9	1034.1	779.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.2	16.2	8.1	0.0
85°	44.4	28.3	16.2	0.0
82.5°	64.6	44.4	20.2	0.0
80°	84.8	56.6	28.3	0.0
77.5°	109.1	72.7	36.4	0.0
75°	129.3	84.8	44.4	0.0
72.5°	149.5	101.0	48.5	0.0
70°	169.7	113.1	56.6	0.0
67.5°	193.9	125.2	64.6	0.0
65°	214.1	141.4	68.7	0.0
62.5°	234.3	153.5	76.8	0.0
60°	254.5	165.6	80.8	0.0
57.5°	274.7	177.7	88.9	0.0
55°	294.9	193.9	96.9	0.0
52.5°	315.1	206.0	101.0	0.0
50°	335.3	218.1	105.0	0.0
47.5°	351.4	230.3	113.1	0.0
45°	371.6	242.4	117.1	0.0
42.5°	391.8	250.4	121.2	0.0
40°	408.0	262.6	125.2	0.0
37.5°	428.2	270.6	133.3	0.0
35°	444.3	282.8	137.3	0.0
32.5°	456.5	290.8	141.4	0.0
30°	472.6	298.9	145.4	0.0
27.5°	484.7	307.0	145.4	0.0
25°	496.9	315.1	149.5	0.0
22.5°	509.0	319.1	153.5	0.0
20°	521.1	327.2	157.5	0.0
17.5°	529.2	331.2	157.5	0.0
15°	537.3	335.3	165.6	0.0
12.5°	541.3	339.3	165.6	0.0
10°	549.4	347.4	165.6	0.0
7.5°	557.4	347.4	165.6	0.0
5°	557.4	347.4	165.6	0.0
2.5°	557.4	347.4	165.6	0.0
0°	557.4	347.4	165.6	0.0

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