

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: P623978

Luminaire Tested: **IFLD-L-SA7C-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623978
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	47077.8 lumens	Max Intensity:	26146.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.6 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:	20370.1 lumens	Field Lumens:	33355.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

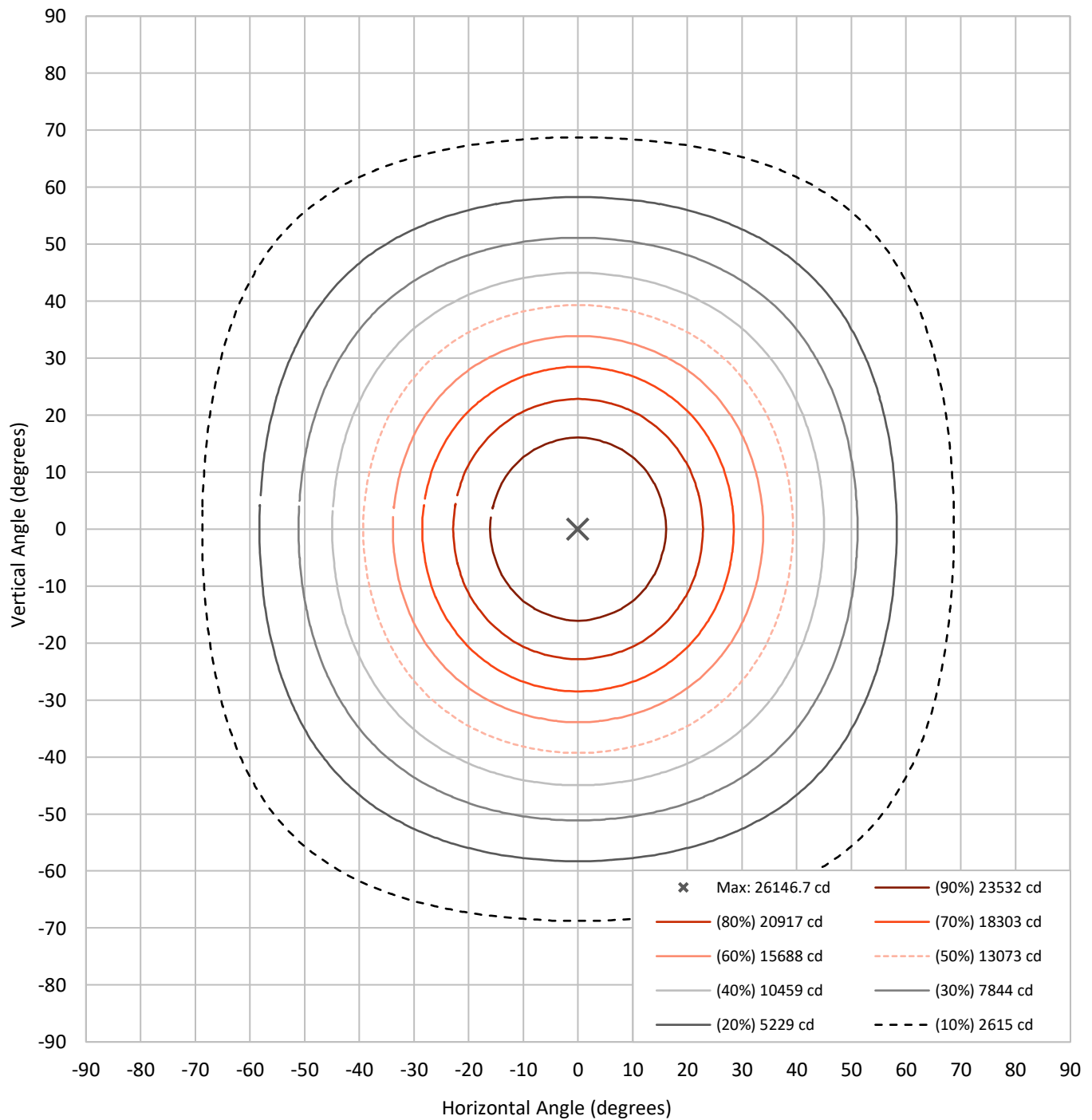
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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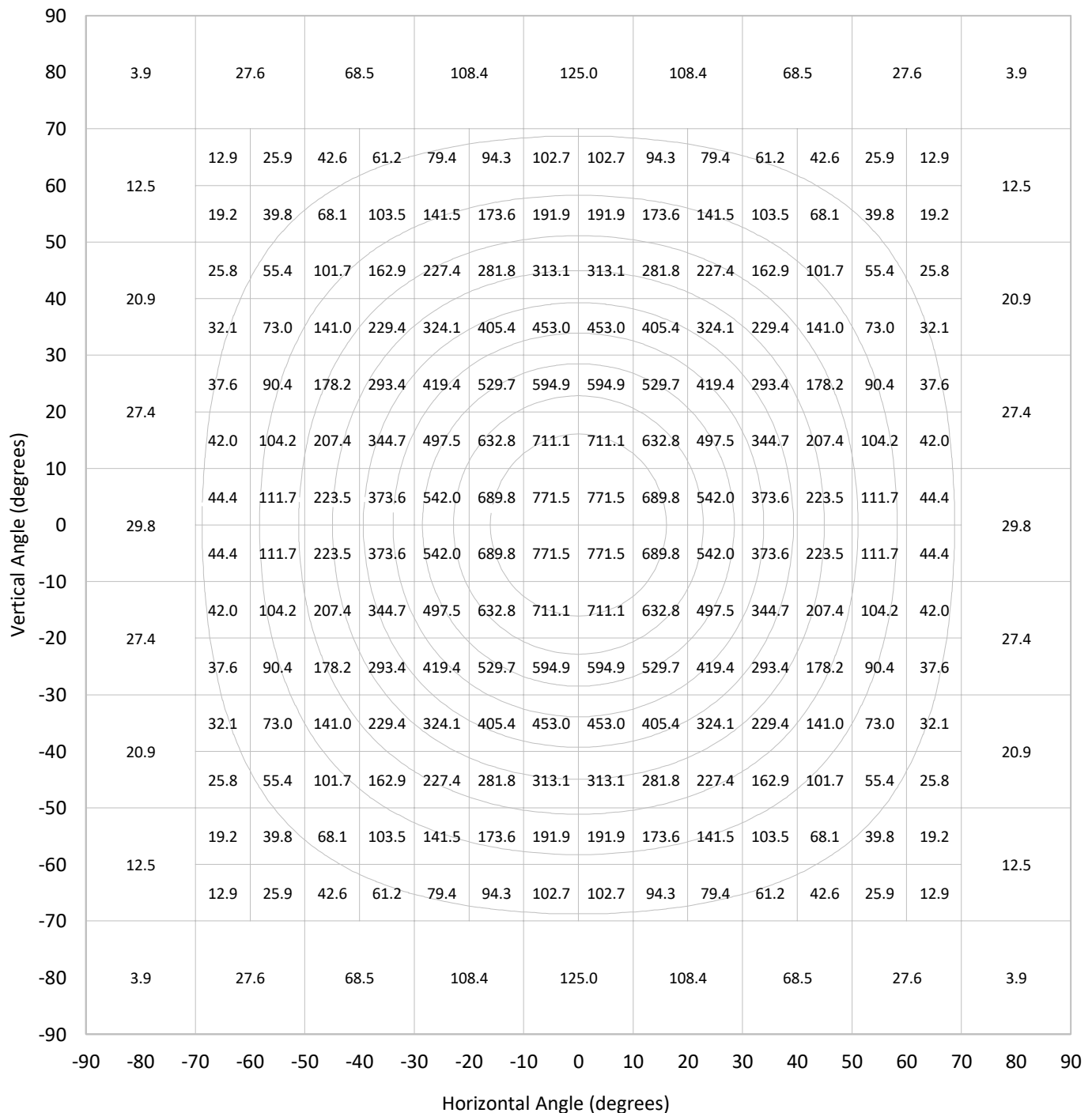
CATALOG NUMBER: IFLD-L-SA7C-750-U-77

Iso-Candela Plot



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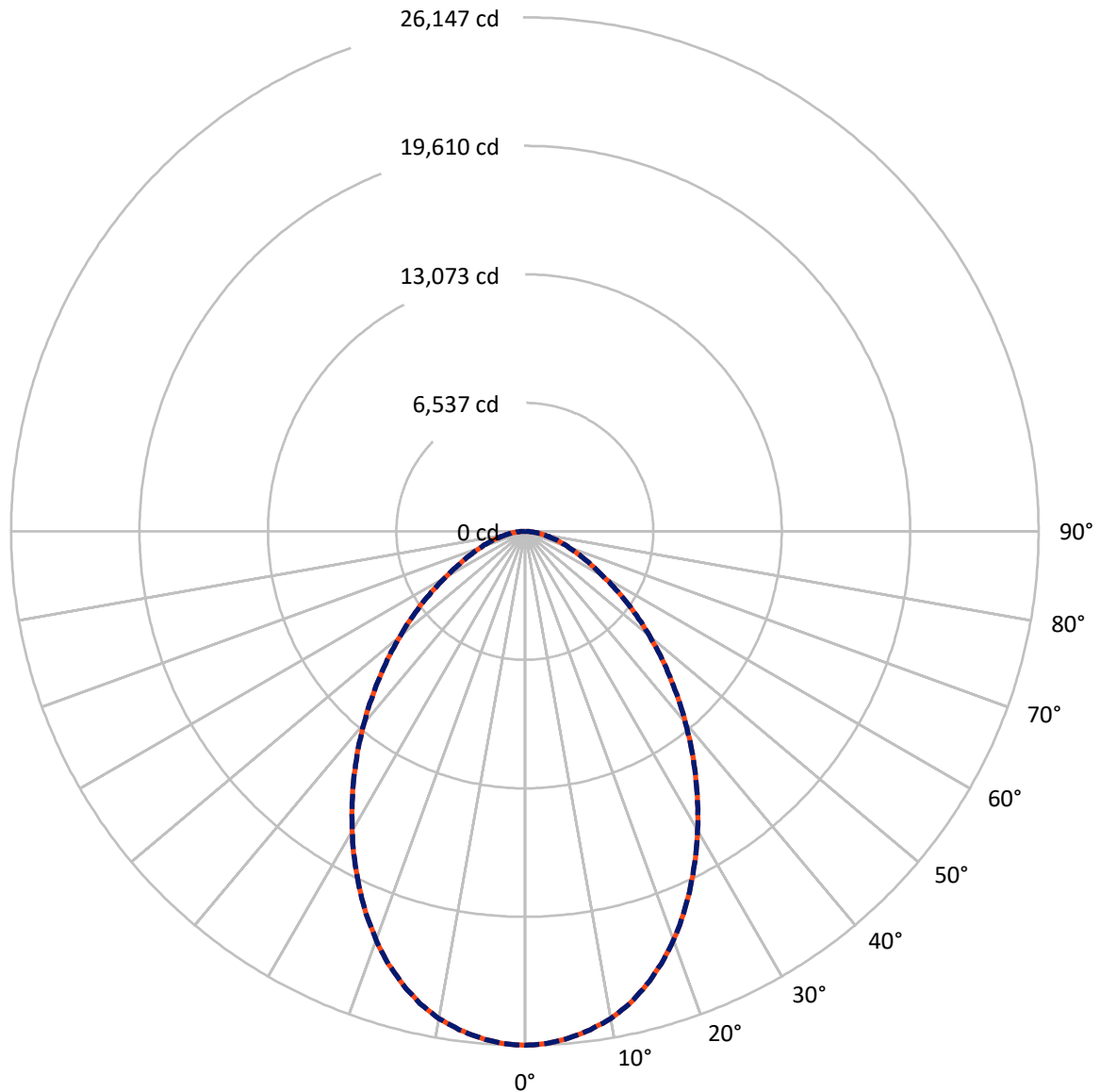
Lumen Table



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Luminous Intensity Polar Plot

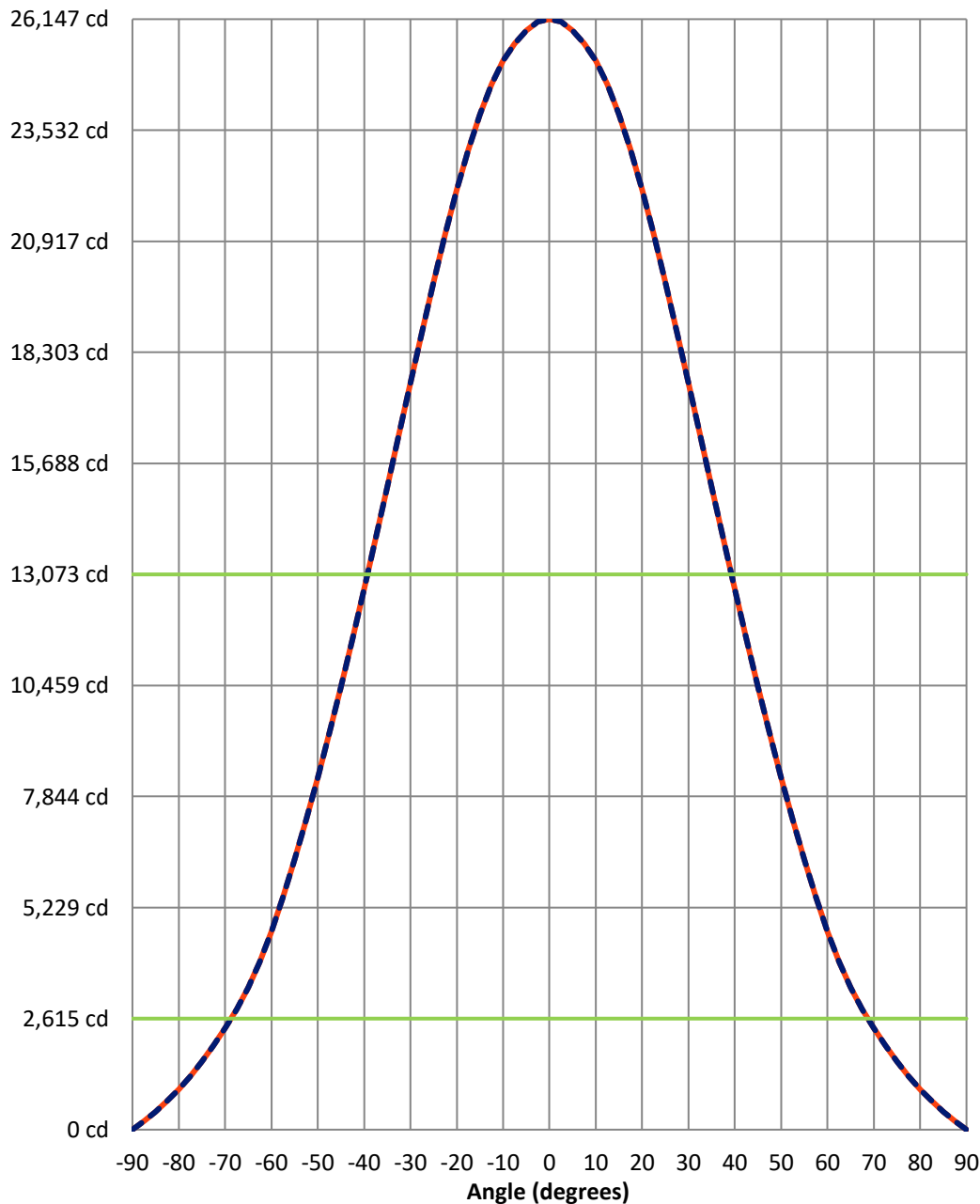


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 20370.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 33355.3
Efficiency: 70.9%

Spill:

Lumens: 13722.5
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°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	191.4	191.4	186.5	181.6
85°	422.1	422.1	422.1	422.1	422.1	412.3	407.4	402.5	397.6	387.8	382.9
82.5°	677.4	677.4	677.4	677.4	667.5	657.7	652.8	643.0	633.2	618.5	603.7
80°	947.3	947.3	947.3	947.3	932.6	922.8	908.0	898.2	883.5	863.9	844.2
77.5°	1256.5	1256.5	1256.5	1241.8	1232.0	1217.3	1202.5	1182.9	1163.3	1138.7	1109.3
75°	1605.0	1605.0	1605.0	1585.4	1570.7	1555.9	1531.4	1506.9	1477.4	1443.1	1403.8
72.5°	1983.0	1983.0	1983.0	1958.4	1943.7	1919.2	1889.7	1855.4	1821.0	1776.8	1727.7
70°	2390.4	2390.4	2390.4	2360.9	2336.4	2311.8	2272.6	2233.3	2184.2	2135.1	2076.2
67.5°	2832.1	2832.1	2832.1	2797.8	2768.3	2733.9	2689.8	2640.7	2581.8	2513.1	2444.4
65°	3347.5	3347.5	3327.9	3298.4	3264.0	3215.0	3161.0	3092.3	3018.6	2930.3	2837.0
62.5°	3956.1	3956.1	3926.7	3892.3	3848.1	3784.3	3710.7	3622.4	3519.3	3406.4	3293.5
60°	4662.9	4662.9	4628.6	4584.4	4520.6	4442.1	4343.9	4231.0	4103.4	3961.0	3823.6
57.5°	5477.7	5477.7	5433.5	5374.6	5296.1	5197.9	5075.2	4932.9	4770.9	4594.2	4422.4
55°	6361.2	6361.2	6307.2	6238.5	6145.2	6027.4	5880.2	5713.3	5517.0	5315.7	5094.9
52.5°	7298.7	7298.7	7234.9	7156.4	7048.4	6910.9	6744.1	6547.7	6321.9	6086.3	5826.2
50°	8285.3	8285.3	8211.7	8123.3	8000.6	7838.6	7647.2	7421.4	7171.1	6896.2	6596.8
47.5°	9340.6	9340.6	9257.1	9154.1	9006.8	8820.3	8594.5	8334.4	8049.7	7740.5	7401.8
45°	10425.3	10425.3	10332.1	10214.3	10052.3	9841.2	9590.9	9340.6	8977.4	8619.1	8226.4
42.5°	11554.2	11554.2	11446.3	11313.7	11127.2	10896.5	10611.8	10287.9	9929.6	9527.1	9100.1
40°	12727.3	12727.3	12604.6	12452.5	12246.3	11981.3	11662.2	11299.0	10896.5	10449.9	9978.7
37.5°	13925.0	13925.0	13787.5	13620.7	13390.0	13095.5	12737.2	12334.7	11883.1	11387.4	10867.1
35°	15132.4	15132.4	14980.3	14798.7	14543.4	14219.5	13831.7	13385.1	12884.4	12344.5	11760.4
32.5°	16364.4	16364.4	16197.5	15991.4	15701.8	15343.5	14916.5	14430.5	13925.0	13296.7	12658.6
30°	17581.7	17581.7	17400.1	17174.3	16865.1	16472.4	16006.1	15471.1	14877.2	14234.2	13547.0
27.5°	18779.3	18730.2	18578.1	18337.6	17998.9	17581.7	17076.1	16496.9	15853.9	15147.1	14410.9
25°	19957.3	19903.3	19736.4	19471.4	19108.2	18651.7	18106.9	17488.4	16796.4	16050.3	15245.3
22.5°	21086.2	21027.3	20850.6	20566.0	20178.2	19682.5	19098.4	18435.7	17699.5	16899.4	16050.3
20°	22131.7	22067.9	21886.3	21586.9	21184.4	20659.2	20040.8	19329.1	18543.7	17699.5	16796.4
17.5°	23074.1	23010.3	22818.9	22509.7	22131.7	21547.6	20909.5	20158.6	19329.1	18435.7	17488.4
15°	23903.6	23834.9	23638.6	23329.4	22897.4	22347.7	21675.2	20909.5	20040.8	19098.4	18106.9
12.5°	24610.4	24541.7	24340.5	24031.3	23584.6	23034.9	22347.7	21547.6	20659.2	19682.5	18651.7
10°	25170.0	25101.3	24909.8	24615.3	24154.0	23584.6	22897.4	22131.7	21184.4	20178.2	19108.2
7.5°	25572.5	25508.7	25332.0	25037.5	24615.3	24031.3	23329.4	22509.7	21586.9	20566.0	19471.4
5°	25876.8	25803.2	25626.5	25332.0	24909.8	24340.5	23638.6	22818.9	21886.3	20850.6	19736.4
2.5°	26087.8	25999.5	25803.2	25508.7	25101.3	24541.7	23834.9	23010.3	22067.9	21027.3	19903.3
0°	26146.7	26087.8	25876.8	25572.5	25170.0	24610.4	23903.6	23074.1	22131.7	21086.2	19957.3

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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°	176.7	176.7	171.8	166.9	162.0	152.2	147.3	142.3	137.4	127.6	122.7
85°	373.0	363.2	353.4	343.6	328.9	319.0	304.3	294.5	279.8	265.1	250.3
82.5°	589.0	574.3	554.6	539.9	520.3	495.7	476.1	451.6	427.0	407.4	382.9
80°	824.6	800.1	775.5	751.0	721.5	692.1	662.6	633.2	598.8	564.5	530.1
77.5°	1079.8	1045.5	1011.1	971.9	937.5	898.2	859.0	819.7	775.5	731.3	687.2
75°	1364.5	1320.3	1271.3	1222.2	1178.0	1124.0	1070.0	1016.0	957.1	903.1	844.2
72.5°	1673.7	1619.8	1560.9	1502.0	1438.1	1369.4	1300.7	1227.1	1158.4	1089.7	1016.0
70°	2007.5	1943.7	1870.1	1796.5	1717.9	1634.5	1551.0	1462.7	1374.3	1286.0	1197.6
67.5°	2365.8	2287.3	2198.9	2110.6	2012.4	1914.3	1816.1	1713.0	1605.0	1497.0	1394.0
65°	2748.7	2650.5	2547.4	2434.5	2321.6	2208.8	2091.0	1968.2	1845.5	1717.9	1605.0
62.5°	3175.7	3053.0	2920.5	2783.0	2655.4	2518.0	2390.4	2238.2	2091.0	1948.6	1806.3
60°	3671.4	3509.5	3347.5	3175.7	3013.7	2837.0	2680.0	2513.1	2346.2	2184.2	2017.3
57.5°	4226.1	4019.9	3823.6	3617.4	3401.5	3205.1	3003.9	2802.7	2616.1	2424.7	2243.1
55°	4854.4	4604.0	4358.6	4103.4	3853.0	3607.6	3352.4	3126.6	2895.9	2680.0	2468.9
52.5°	5541.5	5256.8	4952.5	4662.9	4343.9	4039.6	3754.9	3470.2	3200.2	2940.1	2699.6
50°	6277.8	5944.0	5595.5	5242.1	4878.9	4520.6	4177.0	3843.2	3529.1	3224.8	2940.1
47.5°	7043.5	6665.5	6268.0	5865.5	5477.7	5040.9	4628.6	4250.6	3872.7	3529.1	3200.2
45°	7828.8	7401.8	6964.9	6508.5	6052.0	5580.8	5124.3	4662.9	4250.6	3843.2	3470.2
42.5°	8638.7	8157.7	7671.7	7166.2	6660.6	6145.2	5629.9	5124.3	4628.6	4177.0	3754.9
40°	9473.1	8943.0	8388.4	7838.6	7298.7	6709.7	6145.2	5580.8	5040.9	4520.6	4039.6
37.5°	10307.5	9728.3	9129.5	8511.1	7892.6	7298.7	6660.6	6052.0	5477.7	4878.9	4343.9
35°	11146.8	10508.8	9860.9	9188.4	8511.1	7838.6	7166.2	6508.5	5865.5	5242.1	4662.9
32.5°	11991.1	11294.1	10577.5	9860.9	9129.5	8388.4	7671.7	6964.9	6268.0	5595.5	4952.5
30°	12820.6	12064.7	11294.1	10508.8	9728.3	8943.0	8157.7	7401.8	6665.5	5944.0	5256.8
27.5°	13630.5	12820.6	11991.1	11146.8	10307.5	9473.1	8638.7	7828.8	7043.5	6277.8	5541.5
25°	14410.9	13547.0	12658.6	11760.4	10867.1	9978.7	9100.1	8226.4	7401.8	6596.8	5826.2
22.5°	15147.1	14234.2	13296.7	12344.5	11387.4	10449.9	9527.1	8619.1	7740.5	6896.2	6086.3
20°	15853.9	14877.2	13925.0	12884.4	11883.1	10896.5	9929.6	8977.4	8049.7	7171.1	6321.9
17.5°	16496.9	15471.1	14430.5	13385.1	12334.7	11299.0	10287.9	9340.6	8334.4	7421.4	6547.7
15°	17076.1	16006.1	14916.5	13831.7	12737.2	11662.2	10611.8	9590.9	8594.5	7647.2	6744.1
12.5°	17581.7	16472.4	15343.5	14219.5	13095.5	11981.3	10896.5	9841.2	8820.3	7838.6	6910.9
10°	17998.9	16865.1	15701.8	14543.4	13390.0	12246.3	11127.2	10052.3	9006.8	8000.6	7048.4
7.5°	18337.6	17174.3	15991.4	14798.7	13620.7	12452.5	11313.7	10214.3	9154.1	8123.3	7156.4
5°	18578.1	17400.1	16197.5	14980.3	13787.5	12604.6	11446.3	10332.1	9257.1	8211.7	7234.9
2.5°	18730.2	17581.7	16364.4	15132.4	13925.0	12727.3	11554.2	10425.3	9340.6	8285.3	7298.7
0°	18779.3	17581.7	16364.4	15132.4	13925.0	12727.3	11554.2	10425.3	9340.6	8285.3	7298.7

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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°	117.8	108.0	98.2	93.3	83.4	78.5	68.7	58.9	54.0	44.2	34.4
85°	235.6	216.0	201.2	186.5	171.8	152.2	137.4	122.7	103.1	88.4	68.7
82.5°	358.3	333.8	309.2	284.7	260.1	235.6	206.2	181.6	157.1	132.5	103.1
80°	495.7	456.5	422.1	387.8	353.4	319.0	279.8	245.4	206.2	171.8	137.4
77.5°	638.1	593.9	544.8	495.7	446.7	402.5	353.4	309.2	265.1	216.0	171.8
75°	790.2	731.3	677.4	613.5	554.6	490.8	431.9	373.0	319.0	265.1	206.2
72.5°	947.3	873.7	800.1	731.3	657.7	584.1	515.4	441.8	373.0	309.2	245.4
70°	1109.3	1020.9	932.6	849.1	765.7	677.4	598.8	515.4	431.9	353.4	279.8
67.5°	1281.1	1178.0	1074.9	966.9	873.7	775.5	677.4	584.1	490.8	402.5	319.0
65°	1467.6	1344.9	1217.3	1104.4	981.7	873.7	765.7	657.7	554.6	446.7	353.4
62.5°	1659.0	1516.7	1374.3	1232.0	1104.4	966.9	849.1	731.3	613.5	495.7	387.8
60°	1855.4	1693.4	1531.4	1374.3	1217.3	1074.9	932.6	800.1	677.4	544.8	422.1
57.5°	2056.6	1875.0	1693.4	1516.7	1344.9	1178.0	1020.9	873.7	731.3	593.9	456.5
55°	2262.7	2056.6	1855.4	1659.0	1467.6	1281.1	1109.3	947.3	790.2	638.1	495.7
52.5°	2468.9	2243.1	2017.3	1806.3	1605.0	1394.0	1197.6	1016.0	844.2	687.2	530.1
50°	2680.0	2424.7	2184.2	1948.6	1717.9	1497.0	1286.0	1089.7	903.1	731.3	564.5
47.5°	2895.9	2616.1	2346.2	2091.0	1845.5	1605.0	1374.3	1158.4	957.1	775.5	598.8
45°	3126.6	2802.7	2513.1	2238.2	1968.2	1713.0	1462.7	1227.1	1016.0	819.7	633.2
42.5°	3352.4	3003.9	2680.0	2390.4	2091.0	1816.1	1551.0	1300.7	1070.0	859.0	662.6
40°	3607.6	3205.1	2837.0	2518.0	2208.8	1914.3	1634.5	1369.4	1124.0	898.2	692.1
37.5°	3853.0	3401.5	3013.7	2655.4	2321.6	2012.4	1717.9	1438.1	1178.0	937.5	721.5
35°	4103.4	3617.4	3175.7	2783.0	2434.5	2110.6	1796.5	1502.0	1222.2	971.9	751.0
32.5°	4358.6	3823.6	3347.5	2920.5	2547.4	2198.9	1870.1	1560.9	1271.3	1011.1	775.5
30°	4604.0	4019.9	3509.5	3053.0	2650.5	2287.3	1943.7	1619.8	1320.3	1045.5	800.1
27.5°	4854.4	4226.1	3671.4	3175.7	2748.7	2365.8	2007.5	1673.7	1364.5	1079.8	824.6
25°	5094.9	4422.4	3823.6	3293.5	2837.0	2444.4	2076.2	1727.7	1403.8	1109.3	844.2
22.5°	5315.7	4594.2	3961.0	3406.4	2930.3	2513.1	2135.1	1776.8	1443.1	1138.7	863.9
20°	5517.0	4770.9	4103.4	3519.3	3018.6	2581.8	2184.2	1821.0	1477.4	1163.3	883.5
17.5°	5713.3	4932.9	4231.0	3622.4	3092.3	2640.7	2233.3	1855.4	1506.9	1182.9	898.2
15°	5880.2	5075.2	4343.9	3710.7	3161.0	2689.8	2272.6	1889.7	1531.4	1202.5	908.0
12.5°	6027.4	5197.9	4442.1	3784.3	3215.0	2733.9	2311.8	1919.2	1555.9	1217.3	922.8
10°	6145.2	5296.1	4520.6	3848.1	3264.0	2768.3	2336.4	1943.7	1570.7	1232.0	932.6
7.5°	6238.5	5374.6	4584.4	3892.3	3298.4	2797.8	2360.9	1958.4	1585.4	1241.8	947.3
5°	6307.2	5433.5	4628.6	3926.7	3327.9	2832.1	2390.4	1983.0	1605.0	1256.5	947.3
2.5°	6361.2	5477.7	4662.9	3956.1	3347.5	2832.1	2390.4	1983.0	1605.0	1256.5	947.3
0°	6361.2	5477.7	4662.9	3956.1	3347.5	2832.1	2390.4	1983.0	1605.0	1256.5	947.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.5	19.6	9.8	0.0
85°	54.0	34.4	19.6	0.0
82.5°	78.5	54.0	24.5	0.0
80°	103.1	68.7	34.4	0.0
77.5°	132.5	88.4	44.2	0.0
75°	157.1	103.1	54.0	0.0
72.5°	181.6	122.7	58.9	0.0
70°	206.2	137.4	68.7	0.0
67.5°	235.6	152.2	78.5	0.0
65°	260.1	171.8	83.4	0.0
62.5°	284.7	186.5	93.3	0.0
60°	309.2	201.2	98.2	0.0
57.5°	333.8	216.0	108.0	0.0
55°	358.3	235.6	117.8	0.0
52.5°	382.9	250.3	122.7	0.0
50°	407.4	265.1	127.6	0.0
47.5°	427.0	279.8	137.4	0.0
45°	451.6	294.5	142.3	0.0
42.5°	476.1	304.3	147.3	0.0
40°	495.7	319.0	152.2	0.0
37.5°	520.3	328.9	162.0	0.0
35°	539.9	343.6	166.9	0.0
32.5°	554.6	353.4	171.8	0.0
30°	574.3	363.2	176.7	0.0
27.5°	589.0	373.0	176.7	0.0
25°	603.7	382.9	181.6	0.0
22.5°	618.5	387.8	186.5	0.0
20°	633.2	397.6	191.4	0.0
17.5°	643.0	402.5	191.4	0.0
15°	652.8	407.4	201.2	0.0
12.5°	657.7	412.3	201.2	0.0
10°	667.5	422.1	201.2	0.0
7.5°	677.4	422.1	201.2	0.0
5°	677.4	422.1	201.2	0.0
2.5°	677.4	422.1	201.2	0.0
0°	677.4	422.1	201.2	0.0

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