

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: P623890

Luminaire Tested: **IFLD-L-SA7B-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623890
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33666.8 lumens	Max Intensity:	18698.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.8 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:	14567.3 lumens	Field Lumens:	23853.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

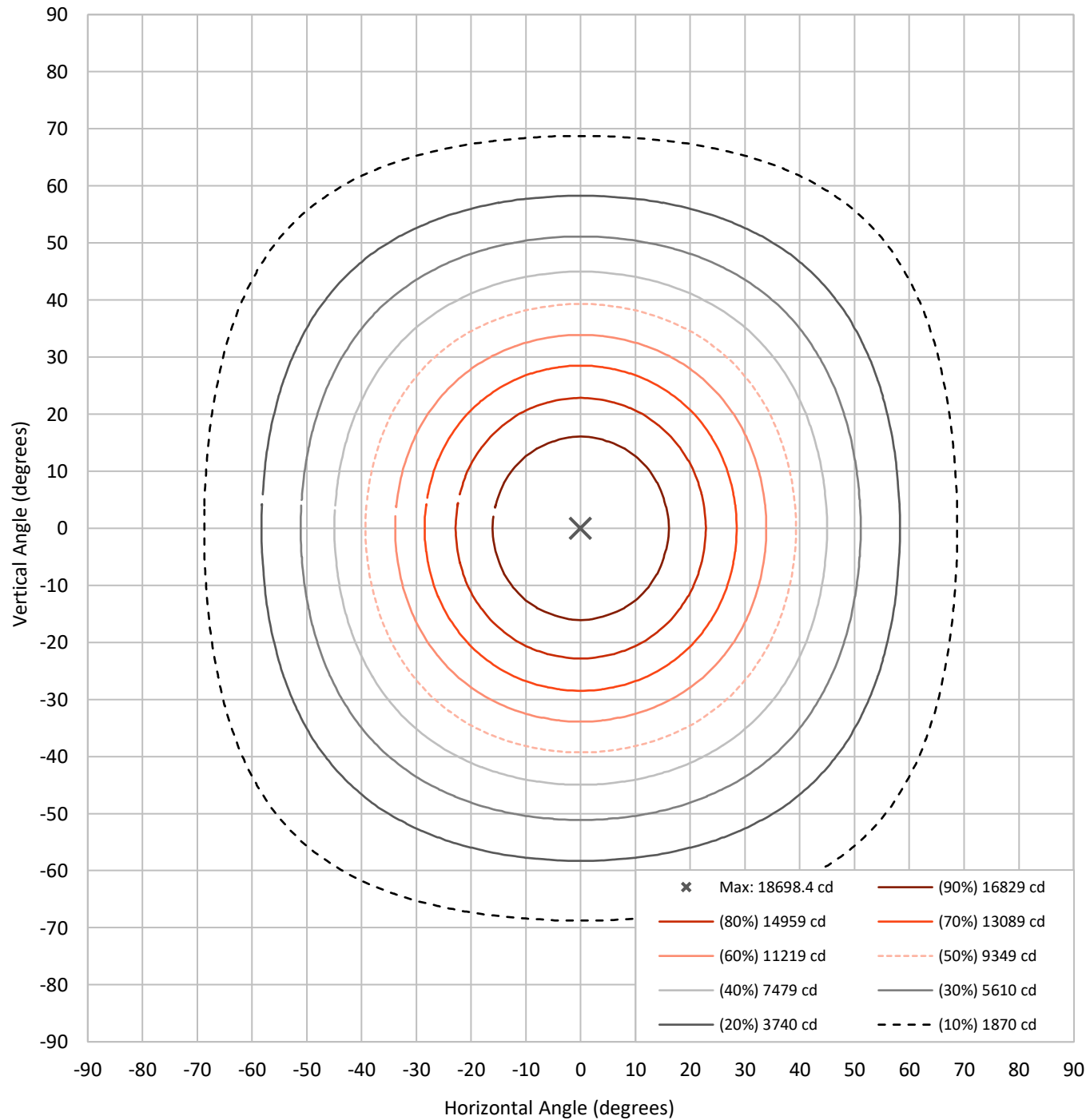
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





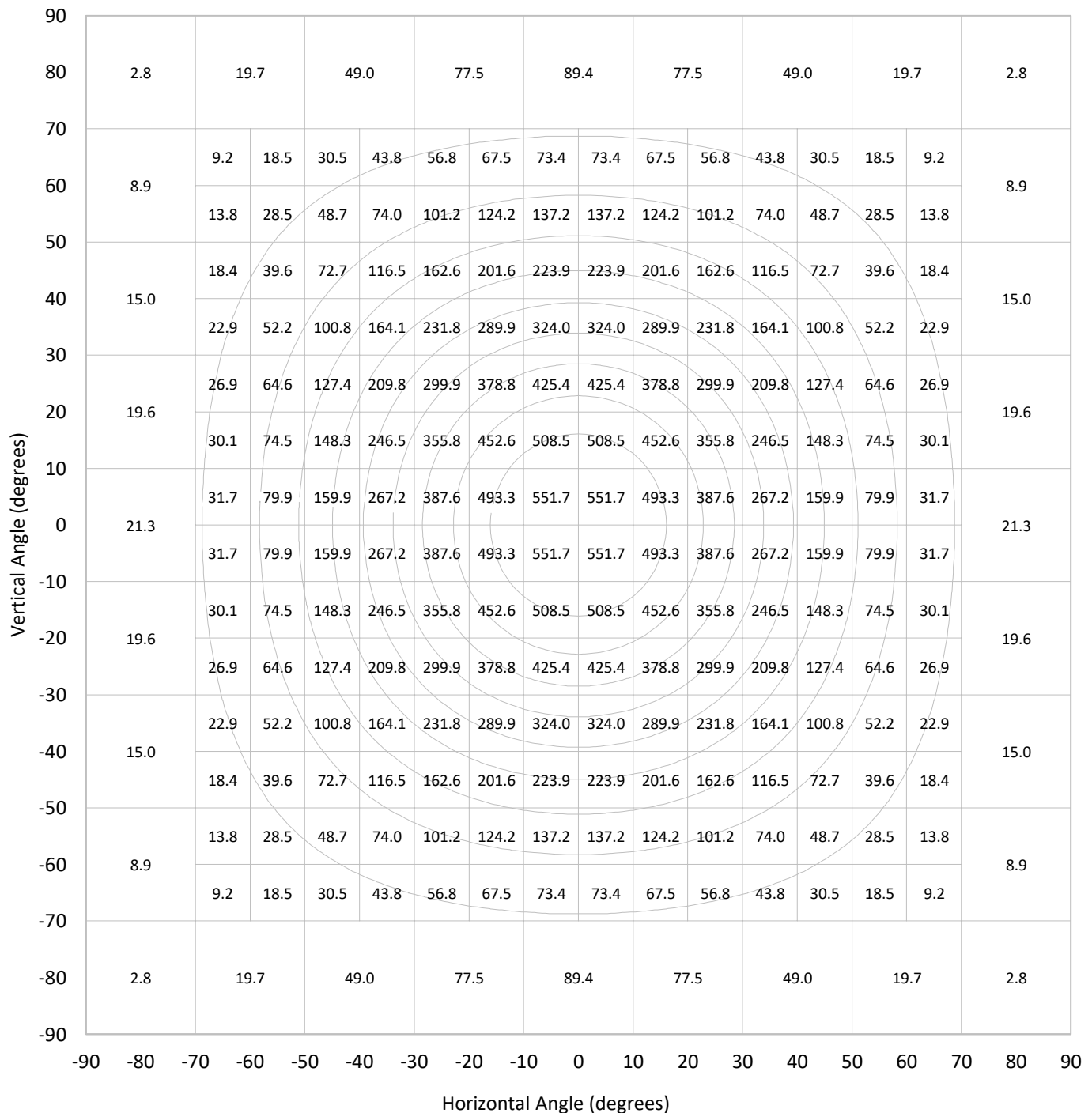
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Iso-Candela Plot



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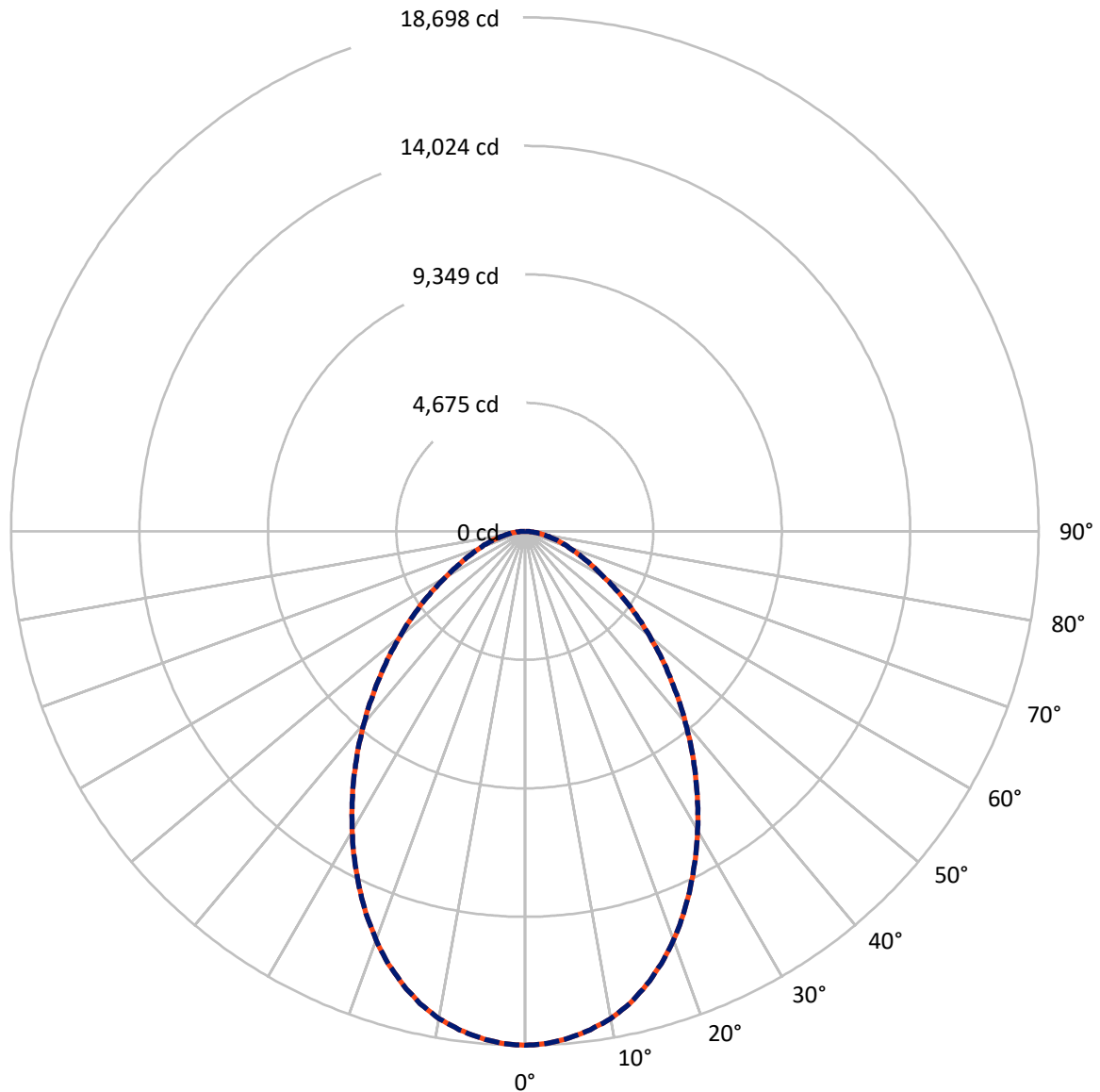
Lumen Table



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Luminous Intensity Polar Plot



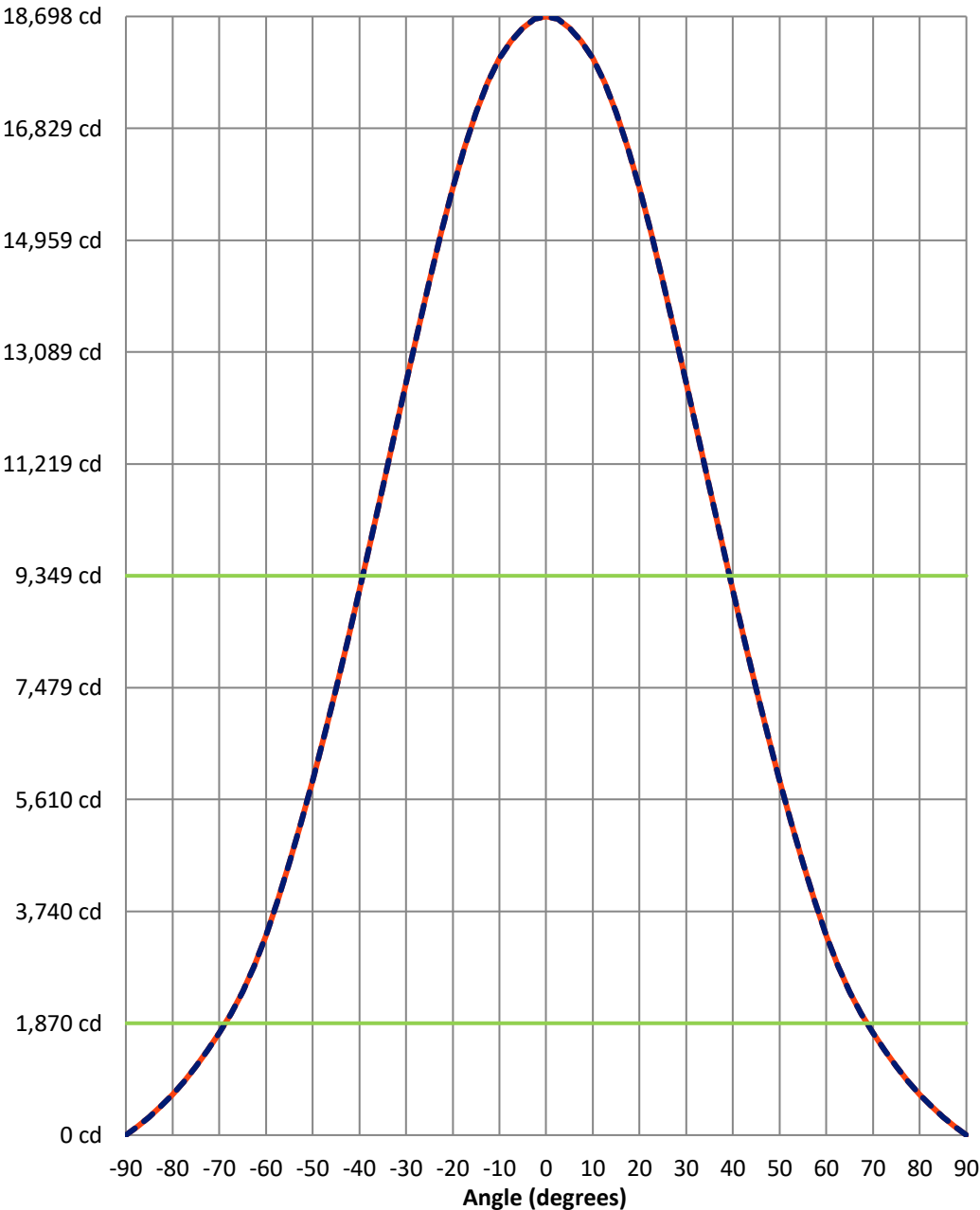
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 14567.3
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 23853.4
Efficiency: 70.9%

Spill:
Lumens: 9813.4
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°	143.9	143.9	143.9	143.9	143.9	143.9	143.9	136.9	136.9	133.4	129.9
85°	301.9	301.9	301.9	301.9	301.9	294.8	291.3	287.8	284.3	277.3	273.8
82.5°	484.4	484.4	484.4	484.4	477.4	470.4	466.8	459.8	452.8	442.3	431.7
80°	677.5	677.5	677.5	677.5	666.9	659.9	649.4	642.4	631.8	617.8	603.7
77.5°	898.6	898.6	898.6	888.1	881.0	870.5	860.0	845.9	831.9	814.3	793.3
75°	1147.8	1147.8	1147.8	1133.8	1123.2	1112.7	1095.2	1077.6	1056.5	1032.0	1003.9
72.5°	1418.1	1418.1	1418.1	1400.5	1390.0	1372.5	1351.4	1326.8	1302.3	1270.7	1235.6
70°	1709.4	1709.4	1709.4	1688.4	1670.8	1653.3	1625.2	1597.1	1562.0	1526.9	1484.8
67.5°	2025.3	2025.3	2025.3	2000.8	1979.7	1955.1	1923.5	1888.4	1846.3	1797.2	1748.0
65°	2393.9	2393.9	2379.9	2358.8	2334.2	2299.1	2260.5	2211.4	2158.7	2095.5	2028.8
62.5°	2829.1	2829.1	2808.1	2783.5	2751.9	2706.3	2653.6	2590.5	2516.7	2436.0	2355.3
60°	3334.6	3334.6	3310.0	3278.4	3232.8	3176.6	3106.4	3025.7	2934.5	2832.7	2734.4
57.5°	3917.3	3917.3	3885.7	3843.6	3787.4	3717.2	3629.5	3527.7	3411.8	3285.5	3162.6
55°	4549.1	4549.1	4510.5	4461.3	4394.7	4310.4	4205.1	4085.8	3945.4	3801.4	3643.5
52.5°	5219.5	5219.5	5173.9	5117.7	5040.5	4942.2	4822.9	4682.5	4521.0	4352.5	4166.5
50°	5925.1	5925.1	5872.4	5809.2	5721.5	5605.6	5468.8	5307.3	5128.3	4931.7	4717.6
47.5°	6679.7	6679.7	6620.1	6546.4	6441.1	6307.7	6146.2	5960.2	5756.6	5535.4	5293.2
45°	7455.5	7455.5	7388.8	7304.5	7188.7	7037.8	6858.8	6679.7	6420.0	6163.8	5882.9
42.5°	8262.8	8262.8	8185.6	8090.8	7957.4	7792.4	7588.9	7357.2	7101.0	6813.1	6507.7
40°	9101.7	9101.7	9014.0	8905.1	8757.7	8568.2	8340.0	8080.3	7792.4	7473.0	7136.1
37.5°	9958.2	9958.2	9859.9	9740.6	9575.6	9365.0	9108.7	8820.9	8498.0	8143.5	7771.4
35°	10821.7	10821.7	10712.9	10583.0	10400.5	10168.8	9891.5	9572.1	9214.0	8827.9	8410.2
32.5°	11702.7	11702.7	11583.4	11435.9	11228.8	10972.6	10667.2	10319.7	9958.2	9508.9	9052.6
30°	12573.2	12573.2	12443.3	12281.9	12060.7	11779.9	11446.5	11063.9	10639.1	10179.3	9687.9
27.5°	13429.7	13394.6	13285.8	13113.8	12871.6	12573.2	12211.7	11797.5	11337.7	10832.2	10305.7
25°	14272.1	14233.5	14114.1	13924.6	13664.9	13338.4	12948.8	12506.5	12011.6	11478.1	10902.4
22.5°	15079.4	15037.3	14910.9	14707.4	14430.1	14075.5	13657.8	13184.0	12657.5	12085.3	11478.1
20°	15827.1	15781.5	15651.6	15437.5	15149.6	14774.1	14331.8	13822.8	13261.2	12657.5	12011.6
17.5°	16501.0	16455.4	16318.5	16097.4	15827.1	15409.4	14953.1	14416.0	13822.8	13184.0	12506.5
15°	17094.2	17045.1	16904.7	16683.5	16374.7	15981.5	15500.6	14953.1	14331.8	13657.8	12948.8
12.5°	17599.7	17550.5	17406.6	17185.5	16866.1	16472.9	15981.5	15409.4	14774.1	14075.5	13338.4
10°	17999.8	17950.7	17813.8	17603.2	17273.2	16866.1	16374.7	15827.1	15149.6	14430.1	13664.9
7.5°	18287.7	18242.0	18115.7	17905.1	17603.2	17185.5	16683.5	16097.4	15437.5	14707.4	13924.6
5°	18505.3	18452.6	18326.3	18115.7	17813.8	17406.6	16904.7	16318.5	15651.6	14910.9	14114.1
2.5°	18656.2	18593.0	18452.6	18242.0	17950.7	17550.5	17045.1	16455.4	15781.5	15037.3	14233.5
0°	18698.4	18656.2	18505.3	18287.7	17999.8	17599.7	17094.2	16501.0	15827.1	15079.4	14272.1

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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°	126.4	126.4	122.9	119.3	115.8	108.8	105.3	101.8	98.3	91.3	87.8
85°	266.8	259.7	252.7	245.7	235.2	228.2	217.6	210.6	200.1	189.5	179.0
82.5°	421.2	410.7	396.6	386.1	372.1	354.5	340.5	322.9	305.4	291.3	273.8
80°	589.7	572.1	554.6	537.0	516.0	494.9	473.9	452.8	428.2	403.7	379.1
77.5°	772.2	747.7	723.1	695.0	670.4	642.4	614.3	586.2	554.6	523.0	491.4
75°	975.8	944.2	909.1	874.0	842.4	803.8	765.2	726.6	684.5	645.9	603.7
72.5°	1196.9	1158.3	1116.2	1074.1	1028.5	979.3	930.2	877.5	828.4	779.2	726.6
70°	1435.6	1390.0	1337.4	1284.7	1228.5	1168.9	1109.2	1046.0	982.8	919.6	856.5
67.5°	1691.9	1635.7	1572.5	1509.3	1439.1	1368.9	1298.7	1225.0	1147.8	1070.6	996.9
65°	1965.7	1895.5	1821.7	1741.0	1660.3	1579.5	1495.3	1407.6	1319.8	1228.5	1147.8
62.5°	2271.0	2183.3	2088.5	1990.2	1899.0	1800.7	1709.4	1600.6	1495.3	1393.5	1291.7
60°	2625.6	2509.7	2393.9	2271.0	2155.2	2028.8	1916.5	1797.2	1677.8	1562.0	1442.7
57.5°	3022.2	2874.8	2734.4	2587.0	2432.5	2292.1	2148.2	2004.3	1870.9	1734.0	1604.1
55°	3471.5	3292.5	3117.0	2934.5	2755.4	2579.9	2397.4	2235.9	2071.0	1916.5	1765.6
52.5°	3962.9	3759.3	3541.7	3334.6	3106.4	2888.8	2685.2	2481.6	2288.6	2102.6	1930.6
50°	4489.4	4250.7	4001.5	3748.8	3489.0	3232.8	2987.1	2748.4	2523.8	2306.1	2102.6
47.5°	5037.0	4766.7	4482.4	4194.6	3917.3	3604.9	3310.0	3039.8	2769.5	2523.8	2288.6
45°	5598.6	5293.2	4980.8	4654.4	4328.0	3991.0	3664.6	3334.6	3039.8	2748.4	2481.6
42.5°	6177.8	5833.8	5486.3	5124.8	4763.2	4394.7	4026.1	3664.6	3310.0	2987.1	2685.2
40°	6774.5	6395.4	5998.8	5605.6	5219.5	4798.3	4394.7	3991.0	3604.9	3232.8	2888.8
37.5°	7371.2	6957.0	6528.8	6086.5	5644.3	5219.5	4763.2	4328.0	3917.3	3489.0	3106.4
35°	7971.5	7515.1	7051.8	6570.9	6086.5	5605.6	5124.8	4654.4	4194.6	3748.8	3334.6
32.5°	8575.2	8076.8	7564.3	7051.8	6528.8	5998.8	5486.3	4980.8	4482.4	4001.5	3541.7
30°	9168.4	8627.8	8076.8	7515.1	6957.0	6395.4	5833.8	5293.2	4766.7	4250.7	3759.3
27.5°	9747.6	9168.4	8575.2	7971.5	7371.2	6774.5	6177.8	5598.6	5037.0	4489.4	3962.9
25°	10305.7	9687.9	9052.6	8410.2	7771.4	7136.1	6507.7	5882.9	5293.2	4717.6	4166.5
22.5°	10832.2	10179.3	9508.9	8827.9	8143.5	7473.0	6813.1	6163.8	5535.4	4931.7	4352.5
20°	11337.7	10639.1	9958.2	9214.0	8498.0	7792.4	7101.0	6420.0	5756.6	5128.3	4521.0
17.5°	11797.5	11063.9	10319.7	9572.1	8820.9	8080.3	7357.2	6679.7	5960.2	5307.3	4682.5
15°	12211.7	11446.5	10667.2	9891.5	9108.7	8340.0	7588.9	6858.8	6146.2	5468.8	4822.9
12.5°	12573.2	11779.9	10972.6	10168.8	9365.0	8568.2	7792.4	7037.8	6307.7	5605.6	4942.2
10°	12871.6	12060.7	11228.8	10400.5	9575.6	8757.7	7957.4	7188.7	6441.1	5721.5	5040.5
7.5°	13113.8	12281.9	11435.9	10583.0	9740.6	8905.1	8090.8	7304.5	6546.4	5809.2	5117.7
5°	13285.8	12443.3	11583.4	10712.9	9859.9	9014.0	8185.6	7388.8	6620.1	5872.4	5173.9
2.5°	13394.6	12573.2	11702.7	10821.7	9958.2	9101.7	8262.8	7455.5	6679.7	5925.1	5219.5
0°	13429.7	12573.2	11702.7	10821.7	9958.2	9101.7	8262.8	7455.5	6679.7	5925.1	5219.5

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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°	84.2	77.2	70.2	66.7	59.7	56.2	49.1	42.1	38.6	31.6	24.6
85°	168.5	154.4	143.9	133.4	122.9	108.8	98.3	87.8	73.7	63.2	49.1
82.5°	256.2	238.7	221.1	203.6	186.0	168.5	147.4	129.9	112.3	94.8	73.7
80°	354.5	326.4	301.9	277.3	252.7	228.2	200.1	175.5	147.4	122.9	98.3
77.5°	456.3	424.7	389.6	354.5	319.4	287.8	252.7	221.1	189.5	154.4	122.9
75°	565.1	523.0	484.4	438.8	396.6	351.0	308.9	266.8	228.2	189.5	147.4
72.5°	677.5	624.8	572.1	523.0	470.4	417.7	368.6	315.9	266.8	221.1	175.5
70°	793.3	730.1	666.9	607.2	547.6	484.4	428.2	368.6	308.9	252.7	200.1
67.5°	916.1	842.4	768.7	691.5	624.8	554.6	484.4	417.7	351.0	287.8	228.2
65°	1049.5	961.8	870.5	789.8	702.0	624.8	547.6	470.4	396.6	319.4	252.7
62.5°	1186.4	1084.6	982.8	881.0	789.8	691.5	607.2	523.0	438.8	354.5	277.3
60°	1326.8	1211.0	1095.2	982.8	870.5	768.7	666.9	572.1	484.4	389.6	301.9
57.5°	1470.7	1340.9	1211.0	1084.6	961.8	842.4	730.1	624.8	523.0	424.7	326.4
55°	1618.2	1470.7	1326.8	1186.4	1049.5	916.1	793.3	677.5	565.1	456.3	354.5
52.5°	1765.6	1604.1	1442.7	1291.7	1147.8	996.9	856.5	726.6	603.7	491.4	379.1
50°	1916.5	1734.0	1562.0	1393.5	1228.5	1070.6	919.6	779.2	645.9	523.0	403.7
47.5°	2071.0	1870.9	1677.8	1495.3	1319.8	1147.8	982.8	828.4	684.5	554.6	428.2
45°	2235.9	2004.3	1797.2	1600.6	1407.6	1225.0	1046.0	877.5	726.6	586.2	452.8
42.5°	2397.4	2148.2	1916.5	1709.4	1495.3	1298.7	1109.2	930.2	765.2	614.3	473.9
40°	2579.9	2292.1	2028.8	1800.7	1579.5	1368.9	1168.9	979.3	803.8	642.4	494.9
37.5°	2755.4	2432.5	2155.2	1899.0	1660.3	1439.1	1228.5	1028.5	842.4	670.4	516.0
35°	2934.5	2587.0	2271.0	1990.2	1741.0	1509.3	1284.7	1074.1	874.0	695.0	537.0
32.5°	3117.0	2734.4	2393.9	2088.5	1821.7	1572.5	1337.4	1116.2	909.1	723.1	554.6
30°	3292.5	2874.8	2509.7	2183.3	1895.5	1635.7	1390.0	1158.3	944.2	747.7	572.1
27.5°	3471.5	3022.2	2625.6	2271.0	1965.7	1691.9	1435.6	1196.9	975.8	772.2	589.7
25°	3643.5	3162.6	2734.4	2355.3	2028.8	1748.0	1484.8	1235.6	1003.9	793.3	603.7
22.5°	3801.4	3285.5	2832.7	2436.0	2095.5	1797.2	1526.9	1270.7	1032.0	814.3	617.8
20°	3945.4	3411.8	2934.5	2516.7	2158.7	1846.3	1562.0	1302.3	1056.5	831.9	631.8
17.5°	4085.8	3527.7	3025.7	2590.5	2211.4	1888.4	1597.1	1326.8	1077.6	845.9	642.4
15°	4205.1	3629.5	3106.4	2653.6	2260.5	1923.5	1625.2	1351.4	1095.2	860.0	649.4
12.5°	4310.4	3717.2	3176.6	2706.3	2299.1	1955.1	1653.3	1372.5	1112.7	870.5	659.9
10°	4394.7	3787.4	3232.8	2751.9	2334.2	1979.7	1670.8	1390.0	1123.2	881.0	666.9
7.5°	4461.3	3843.6	3278.4	2783.5	2358.8	2000.8	1688.4	1400.5	1133.8	888.1	677.5
5°	4510.5	3885.7	3310.0	2808.1	2379.9	2025.3	1709.4	1418.1	1147.8	898.6	677.5
2.5°	4549.1	3917.3	3334.6	2829.1	2393.9	2025.3	1709.4	1418.1	1147.8	898.6	677.5
0°	4549.1	3917.3	3334.6	2829.1	2393.9	2025.3	1709.4	1418.1	1147.8	898.6	677.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.6	14.0	7.0	0.0
85°	38.6	24.6	14.0	0.0
82.5°	56.2	38.6	17.6	0.0
80°	73.7	49.1	24.6	0.0
77.5°	94.8	63.2	31.6	0.0
75°	112.3	73.7	38.6	0.0
72.5°	129.9	87.8	42.1	0.0
70°	147.4	98.3	49.1	0.0
67.5°	168.5	108.8	56.2	0.0
65°	186.0	122.9	59.7	0.0
62.5°	203.6	133.4	66.7	0.0
60°	221.1	143.9	70.2	0.0
57.5°	238.7	154.4	77.2	0.0
55°	256.2	168.5	84.2	0.0
52.5°	273.8	179.0	87.8	0.0
50°	291.3	189.5	91.3	0.0
47.5°	305.4	200.1	98.3	0.0
45°	322.9	210.6	101.8	0.0
42.5°	340.5	217.6	105.3	0.0
40°	354.5	228.2	108.8	0.0
37.5°	372.1	235.2	115.8	0.0
35°	386.1	245.7	119.3	0.0
32.5°	396.6	252.7	122.9	0.0
30°	410.7	259.7	126.4	0.0
27.5°	421.2	266.8	126.4	0.0
25°	431.7	273.8	129.9	0.0
22.5°	442.3	277.3	133.4	0.0
20°	452.8	284.3	136.9	0.0
17.5°	459.8	287.8	136.9	0.0
15°	466.8	291.3	143.9	0.0
12.5°	470.4	294.8	143.9	0.0
10°	477.4	301.9	143.9	0.0
7.5°	484.4	301.9	143.9	0.0
5°	484.4	301.9	143.9	0.0
2.5°	484.4	301.9	143.9	0.0
0°	484.4	301.9	143.9	0.0

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