

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: P623930

Luminaire Tested: **IFLD-S-SA2D-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623930
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

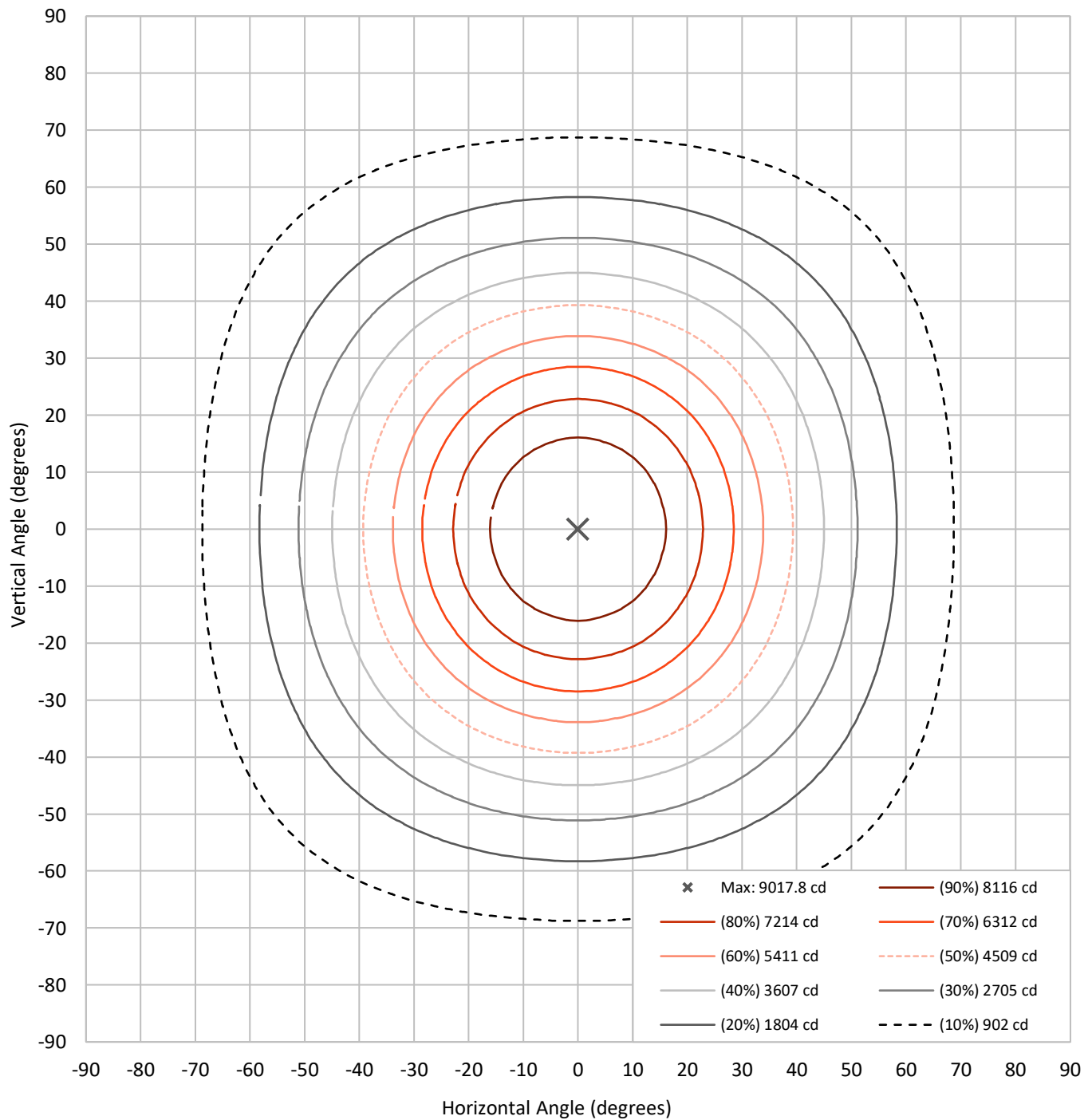
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16236.8 lumens	Max Intensity:	9017.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7025.5 lumens	Field Lumens:	11504 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	123.9		
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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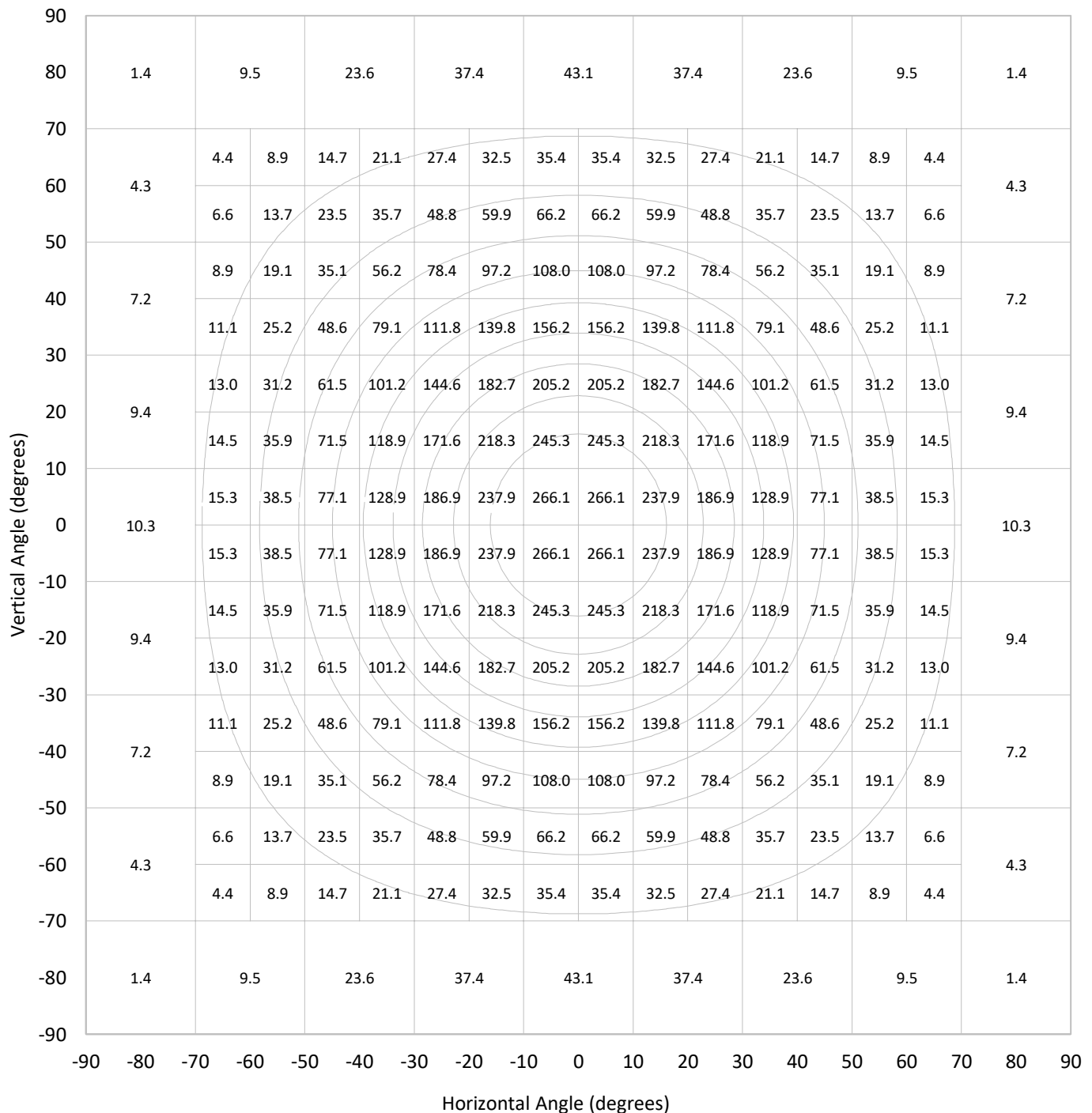
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Iso-Candela Plot



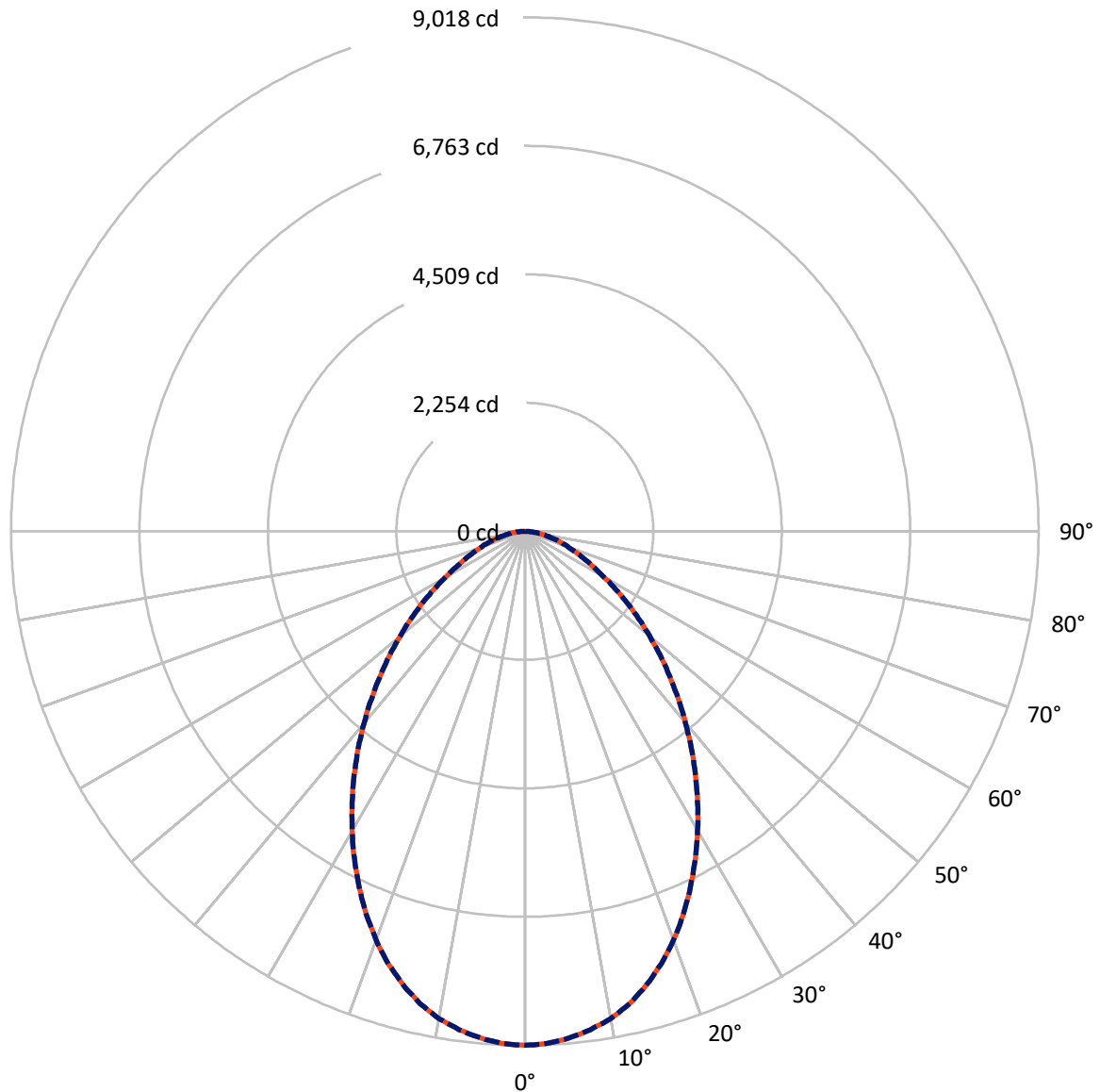
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Lumen Table



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Luminous Intensity Polar Plot

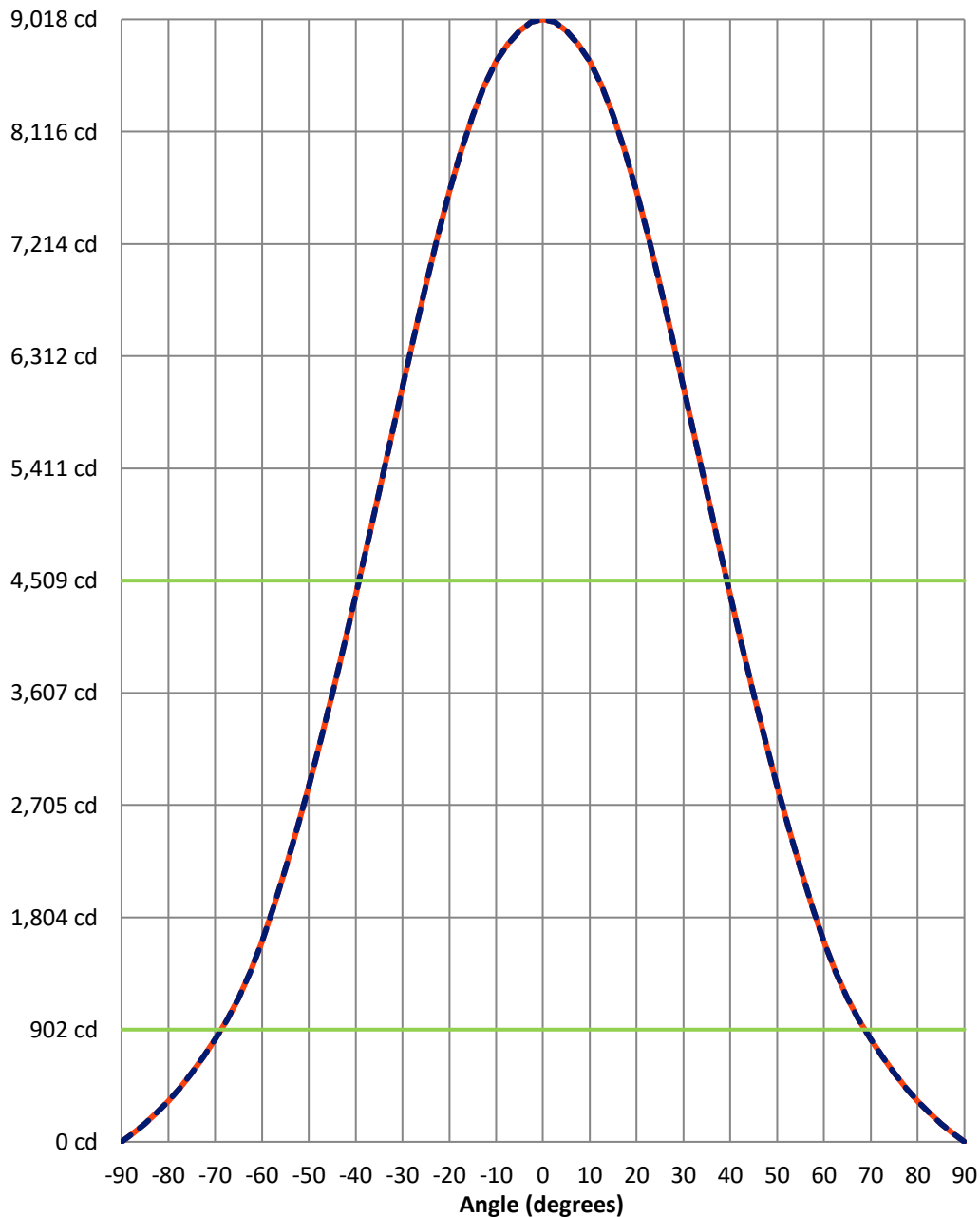


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 7025.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 11504
Efficiency: 70.9%

Spill:

Lumens: 4732.8
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°	69.4	69.4	69.4	69.4	69.4	69.4	69.4	66.0	66.0	64.3	62.6
85°	145.6	145.6	145.6	145.6	145.6	142.2	140.5	138.8	137.1	133.7	132.0
82.5°	233.6	233.6	233.6	233.6	230.2	226.8	225.1	221.8	218.4	213.3	208.2
80°	326.7	326.7	326.7	326.7	321.6	318.3	313.2	309.8	304.7	297.9	291.2
77.5°	433.4	433.4	433.4	428.3	424.9	419.8	414.7	408.0	401.2	392.7	382.6
75°	553.6	553.6	553.6	546.8	541.7	536.6	528.2	519.7	509.5	497.7	484.2
72.5°	683.9	683.9	683.9	675.4	670.4	661.9	651.7	639.9	628.0	612.8	595.9
70°	824.4	824.4	824.4	814.3	805.8	797.3	783.8	770.2	753.3	736.4	716.1
67.5°	976.8	976.8	976.8	964.9	954.8	942.9	927.7	910.8	890.4	866.7	843.0
65°	1154.5	1154.5	1147.8	1137.6	1125.7	1108.8	1090.2	1066.5	1041.1	1010.6	978.5
62.5°	1364.4	1364.4	1354.3	1342.4	1327.2	1305.2	1279.8	1249.3	1213.8	1174.8	1135.9
60°	1608.2	1608.2	1596.4	1581.1	1559.1	1532.0	1498.2	1459.2	1415.2	1366.1	1318.7
57.5°	1889.2	1889.2	1874.0	1853.7	1826.6	1792.7	1750.4	1701.3	1645.5	1584.5	1525.3
55°	2193.9	2193.9	2175.3	2151.6	2119.5	2078.8	2028.0	1970.5	1902.8	1833.4	1757.2
52.5°	2517.3	2517.3	2495.3	2468.2	2430.9	2383.5	2326.0	2258.3	2180.4	2099.1	2009.4
50°	2857.5	2857.5	2832.1	2801.7	2759.4	2703.5	2637.5	2559.6	2473.3	2378.5	2275.2
47.5°	3221.5	3221.5	3192.7	3157.2	3106.4	3042.1	2964.2	2874.5	2776.3	2669.6	2552.8
45°	3595.6	3595.6	3563.5	3522.8	3467.0	3394.2	3307.8	3221.5	3096.2	2972.6	2837.2
42.5°	3985.0	3985.0	3947.7	3902.0	3837.7	3758.1	3659.9	3548.2	3424.6	3285.8	3138.5
40°	4389.6	4389.6	4347.2	4294.8	4223.7	4132.3	4022.2	3896.9	3758.1	3604.1	3441.6
37.5°	4802.6	4802.6	4755.2	4697.7	4618.1	4516.5	4393.0	4254.1	4098.4	3927.4	3748.0
35°	5219.1	5219.1	5166.6	5104.0	5015.9	4904.2	4770.5	4616.4	4443.7	4257.5	4056.1
32.5°	5644.0	5644.0	5586.4	5515.3	5415.4	5291.9	5144.6	4977.0	4802.6	4585.9	4365.9
30°	6063.8	6063.8	6001.2	5923.3	5816.6	5681.2	5520.4	5335.9	5131.0	4909.3	4672.3
27.5°	6476.9	6459.9	6407.4	6324.5	6207.7	6063.8	5889.4	5689.7	5467.9	5224.1	4970.2
25°	6883.1	6864.5	6807.0	6715.5	6590.3	6432.8	6244.9	6031.6	5792.9	5535.6	5258.0
22.5°	7272.5	7252.2	7191.2	7093.1	6959.3	6788.3	6586.9	6358.4	6104.4	5828.5	5535.6
20°	7633.1	7611.1	7548.4	7445.2	7306.4	7125.2	6911.9	6666.5	6395.6	6104.4	5792.9
17.5°	7958.1	7936.1	7870.1	7763.4	7633.1	7431.6	7211.6	6952.5	6666.5	6358.4	6031.6
15°	8244.2	8220.5	8152.8	8046.1	7897.2	7707.6	7475.6	7211.6	6911.9	6586.9	6244.9
12.5°	8488.0	8464.3	8394.9	8288.2	8134.2	7944.6	7707.6	7431.6	7125.2	6788.3	6432.8
10°	8680.9	8657.2	8591.2	8489.7	8330.5	8134.2	7897.2	7633.1	7306.4	6959.3	6590.3
7.5°	8819.8	8797.8	8736.8	8635.2	8489.7	8288.2	8046.1	7763.4	7445.2	7093.1	6715.5
5°	8924.7	8899.3	8838.4	8736.8	8591.2	8394.9	8152.8	7870.1	7548.4	7191.2	6807.0
2.5°	8997.5	8967.0	8899.3	8797.8	8657.2	8464.3	8220.5	7936.1	7611.1	7252.2	6864.5
0°	9017.8	8997.5	8924.7	8819.8	8680.9	8488.0	8244.2	7958.1	7633.1	7272.5	6883.1

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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°	60.9	60.9	59.2	57.6	55.9	52.5	50.8	49.1	47.4	44.0	42.3
85°	128.7	125.3	121.9	118.5	113.4	110.0	105.0	101.6	96.5	91.4	86.3
82.5°	203.1	198.1	191.3	186.2	179.4	171.0	164.2	155.7	147.3	140.5	132.0
80°	284.4	275.9	267.5	259.0	248.8	238.7	228.5	218.4	206.5	194.7	182.8
77.5°	372.4	360.6	348.7	335.2	323.3	309.8	296.2	282.7	267.5	252.2	237.0
75°	470.6	455.4	438.4	421.5	406.3	387.7	369.0	350.4	330.1	311.5	291.2
72.5°	577.3	558.6	538.3	518.0	496.0	472.3	448.6	423.2	399.5	375.8	350.4
70°	692.4	670.4	645.0	619.6	592.5	563.7	534.9	504.5	474.0	443.5	413.1
67.5°	816.0	788.9	758.4	727.9	694.1	660.2	626.4	590.8	553.6	516.3	480.8
65°	948.0	914.1	878.6	839.7	800.7	761.8	721.2	678.8	636.5	592.5	553.6
62.5°	1095.3	1053.0	1007.2	959.8	915.8	868.4	824.4	771.9	721.2	672.1	623.0
60°	1266.3	1210.4	1154.5	1095.3	1039.4	978.5	924.3	866.7	809.2	753.3	695.8
57.5°	1457.5	1386.4	1318.7	1247.6	1173.1	1105.4	1036.0	966.6	902.3	836.3	773.6
55°	1674.2	1587.9	1503.3	1415.2	1328.9	1244.2	1156.2	1078.3	998.8	924.3	851.5
52.5°	1911.2	1813.0	1708.1	1608.2	1498.2	1393.2	1295.0	1196.8	1103.7	1014.0	931.1
50°	2165.2	2050.0	1929.9	1808.0	1682.7	1559.1	1440.6	1325.5	1217.2	1112.2	1014.0
47.5°	2429.2	2298.9	2161.8	2023.0	1889.2	1738.6	1596.4	1466.0	1335.7	1217.2	1103.7
45°	2700.1	2552.8	2402.2	2244.7	2087.3	1924.8	1767.3	1608.2	1466.0	1325.5	1196.8
42.5°	2979.4	2813.5	2645.9	2471.6	2297.2	2119.5	1941.7	1767.3	1596.4	1440.6	1295.0
40°	3267.2	3084.4	2893.1	2703.5	2517.3	2314.1	2119.5	1924.8	1738.6	1559.1	1393.2
37.5°	3555.0	3355.2	3148.7	2935.4	2722.1	2517.3	2297.2	2087.3	1889.2	1682.7	1498.2
35°	3844.5	3624.4	3400.9	3169.0	2935.4	2703.5	2471.6	2244.7	2023.0	1808.0	1608.2
32.5°	4135.6	3895.3	3648.1	3400.9	3148.7	2893.1	2645.9	2402.2	2161.8	1929.9	1708.1
30°	4421.7	4161.0	3895.3	3624.4	3355.2	3084.4	2813.5	2552.8	2298.9	2050.0	1813.0
27.5°	4701.1	4421.7	4135.6	3844.5	3555.0	3267.2	2979.4	2700.1	2429.2	2165.2	1911.2
25°	4970.2	4672.3	4365.9	4056.1	3748.0	3441.6	3138.5	2837.2	2552.8	2275.2	2009.4
22.5°	5224.1	4909.3	4585.9	4257.5	3927.4	3604.1	3285.8	2972.6	2669.6	2378.5	2099.1
20°	5467.9	5131.0	4802.6	4443.7	4098.4	3758.1	3424.6	3096.2	2776.3	2473.3	2180.4
17.5°	5689.7	5335.9	4977.0	4616.4	4254.1	3896.9	3548.2	3221.5	2874.5	2559.6	2258.3
15°	5889.4	5520.4	5144.6	4770.5	4393.0	4022.2	3659.9	3307.8	2964.2	2637.5	2326.0
12.5°	6063.8	5681.2	5291.9	4904.2	4516.5	4132.3	3758.1	3394.2	3042.1	2703.5	2383.5
10°	6207.7	5816.6	5415.4	5015.9	4618.1	4223.7	3837.7	3467.0	3106.4	2759.4	2430.9
7.5°	6324.5	5923.3	5515.3	5104.0	4697.7	4294.8	3902.0	3522.8	3157.2	2801.7	2468.2
5°	6407.4	6001.2	5586.4	5166.6	4755.2	4347.2	3947.7	3563.5	3192.7	2832.1	2495.3
2.5°	6459.9	6063.8	5644.0	5219.1	4802.6	4389.6	3985.0	3595.6	3221.5	2857.5	2517.3
0°	6476.9	6063.8	5644.0	5219.1	4802.6	4389.6	3985.0	3595.6	3221.5	2857.5	2517.3

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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°	40.6	37.2	33.9	32.2	28.8	27.1	23.7	20.3	18.6	15.2	11.8
85°	81.3	74.5	69.4	64.3	59.2	52.5	47.4	42.3	35.5	30.5	23.7
82.5°	123.6	115.1	106.6	98.2	89.7	81.3	71.1	62.6	54.2	45.7	35.5
80°	171.0	157.4	145.6	133.7	121.9	110.0	96.5	84.6	71.1	59.2	47.4
77.5°	220.1	204.8	187.9	171.0	154.0	138.8	121.9	106.6	91.4	74.5	59.2
75°	272.5	252.2	233.6	211.6	191.3	169.3	149.0	128.7	110.0	91.4	71.1
72.5°	326.7	301.3	275.9	252.2	226.8	201.4	177.7	152.4	128.7	106.6	84.6
70°	382.6	352.1	321.6	292.9	264.1	233.6	206.5	177.7	149.0	121.9	96.5
67.5°	441.8	406.3	370.7	333.5	301.3	267.5	233.6	201.4	169.3	138.8	110.0
65°	506.2	463.8	419.8	380.9	338.6	301.3	264.1	226.8	191.3	154.0	121.9
62.5°	572.2	523.1	474.0	424.9	380.9	333.5	292.9	252.2	211.6	171.0	133.7
60°	639.9	584.0	528.2	474.0	419.8	370.7	321.6	275.9	233.6	187.9	145.6
57.5°	709.3	646.7	584.0	523.1	463.8	406.3	352.1	301.3	252.2	204.8	157.4
55°	780.4	709.3	639.9	572.2	506.2	441.8	382.6	326.7	272.5	220.1	171.0
52.5°	851.5	773.6	695.8	623.0	553.6	480.8	413.1	350.4	291.2	237.0	182.8
50°	924.3	836.3	753.3	672.1	592.5	516.3	443.5	375.8	311.5	252.2	194.7
47.5°	998.8	902.3	809.2	721.2	636.5	553.6	474.0	399.5	330.1	267.5	206.5
45°	1078.3	966.6	866.7	771.9	678.8	590.8	504.5	423.2	350.4	282.7	218.4
42.5°	1156.2	1036.0	924.3	824.4	721.2	626.4	534.9	448.6	369.0	296.2	228.5
40°	1244.2	1105.4	978.5	868.4	761.8	660.2	563.7	472.3	387.7	309.8	238.7
37.5°	1328.9	1173.1	1039.4	915.8	800.7	694.1	592.5	496.0	406.3	323.3	248.8
35°	1415.2	1247.6	1095.3	959.8	839.7	727.9	619.6	518.0	421.5	335.2	259.0
32.5°	1503.3	1318.7	1154.5	1007.2	878.6	758.4	645.0	538.3	438.4	348.7	267.5
30°	1587.9	1386.4	1210.4	1053.0	914.1	788.9	670.4	558.6	455.4	360.6	275.9
27.5°	1674.2	1457.5	1266.3	1095.3	948.0	816.0	692.4	577.3	470.6	372.4	284.4
25°	1757.2	1525.3	1318.7	1135.9	978.5	843.0	716.1	595.9	484.2	382.6	291.2
22.5°	1833.4	1584.5	1366.1	1174.8	1010.6	866.7	736.4	612.8	497.7	392.7	297.9
20°	1902.8	1645.5	1415.2	1213.8	1041.1	890.4	753.3	628.0	509.5	401.2	304.7
17.5°	1970.5	1701.3	1459.2	1249.3	1066.5	910.8	770.2	639.9	519.7	408.0	309.8
15°	2028.0	1750.4	1498.2	1279.8	1090.2	927.7	783.8	651.7	528.2	414.7	313.2
12.5°	2078.8	1792.7	1532.0	1305.2	1108.8	942.9	797.3	661.9	536.6	419.8	318.3
10°	2119.5	1826.6	1559.1	1327.2	1125.7	954.8	805.8	670.4	541.7	424.9	321.6
7.5°	2151.6	1853.7	1581.1	1342.4	1137.6	964.9	814.3	675.4	546.8	428.3	326.7
5°	2175.3	1874.0	1596.4	1354.3	1147.8	976.8	824.4	683.9	553.6	433.4	326.7
2.5°	2193.9	1889.2	1608.2	1364.4	1154.5	976.8	824.4	683.9	553.6	433.4	326.7
0°	2193.9	1889.2	1608.2	1364.4	1154.5	976.8	824.4	683.9	553.6	433.4	326.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.5	6.8	3.4	0.0
85°	18.6	11.8	6.8	0.0
82.5°	27.1	18.6	8.5	0.0
80°	35.5	23.7	11.8	0.0
77.5°	45.7	30.5	15.2	0.0
75°	54.2	35.5	18.6	0.0
72.5°	62.6	42.3	20.3	0.0
70°	71.1	47.4	23.7	0.0
67.5°	81.3	52.5	27.1	0.0
65°	89.7	59.2	28.8	0.0
62.5°	98.2	64.3	32.2	0.0
60°	106.6	69.4	33.9	0.0
57.5°	115.1	74.5	37.2	0.0
55°	123.6	81.3	40.6	0.0
52.5°	132.0	86.3	42.3	0.0
50°	140.5	91.4	44.0	0.0
47.5°	147.3	96.5	47.4	0.0
45°	155.7	101.6	49.1	0.0
42.5°	164.2	105.0	50.8	0.0
40°	171.0	110.0	52.5	0.0
37.5°	179.4	113.4	55.9	0.0
35°	186.2	118.5	57.6	0.0
32.5°	191.3	121.9	59.2	0.0
30°	198.1	125.3	60.9	0.0
27.5°	203.1	128.7	60.9	0.0
25°	208.2	132.0	62.6	0.0
22.5°	213.3	133.7	64.3	0.0
20°	218.4	137.1	66.0	0.0
17.5°	221.8	138.8	66.0	0.0
15°	225.1	140.5	69.4	0.0
12.5°	226.8	142.2	69.4	0.0
10°	230.2	145.6	69.4	0.0
7.5°	233.6	145.6	69.4	0.0
5°	233.6	145.6	69.4	0.0
2.5°	233.6	145.6	69.4	0.0
0°	233.6	145.6	69.4	0.0

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