

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: P624069

Luminaire Tested: **IFLD-L-SA8B-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624069
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33574.2 lumens	Max Intensity:	18646.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.9 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:	14527.2 lumens	Field Lumens:	23787.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

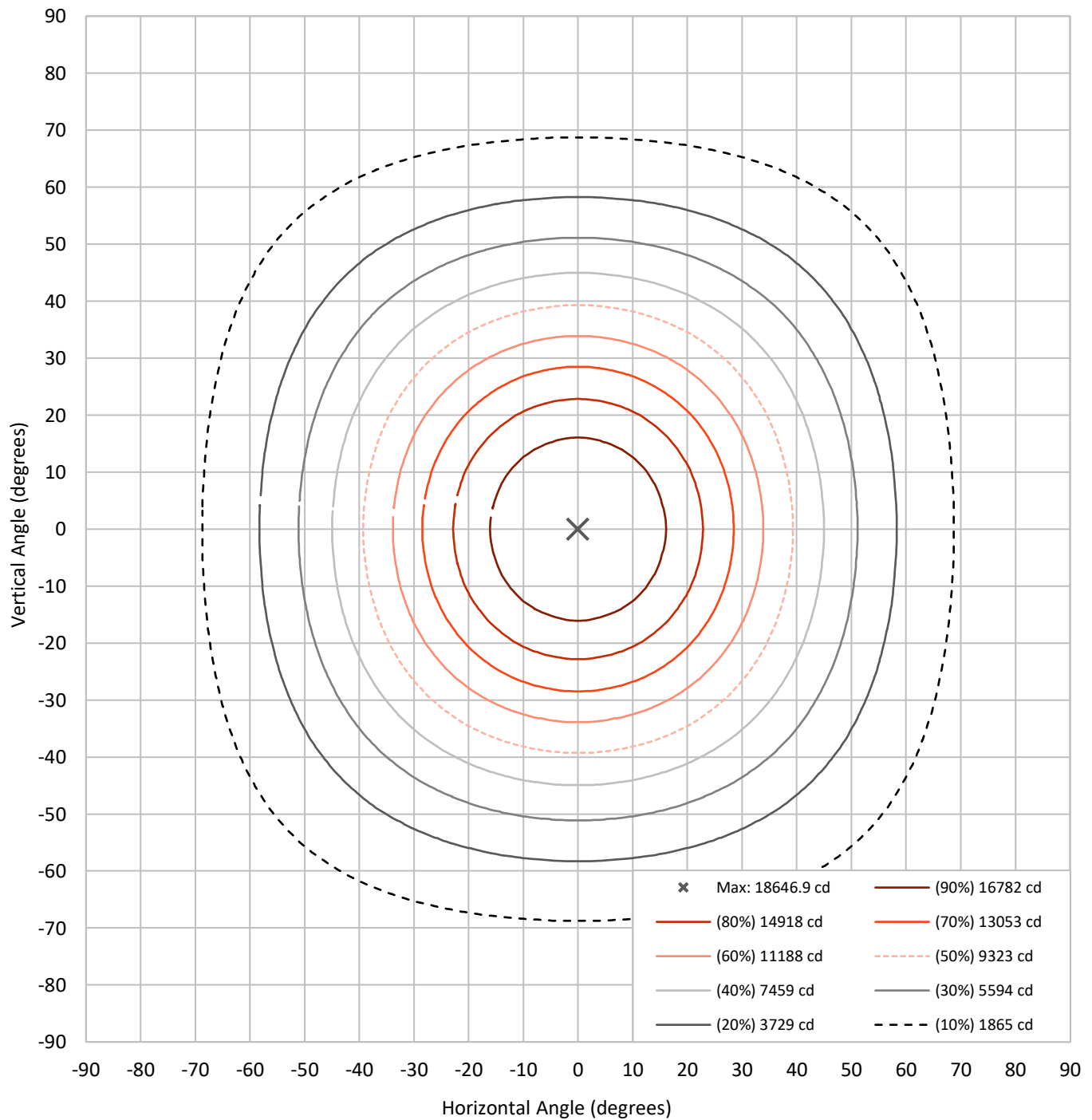
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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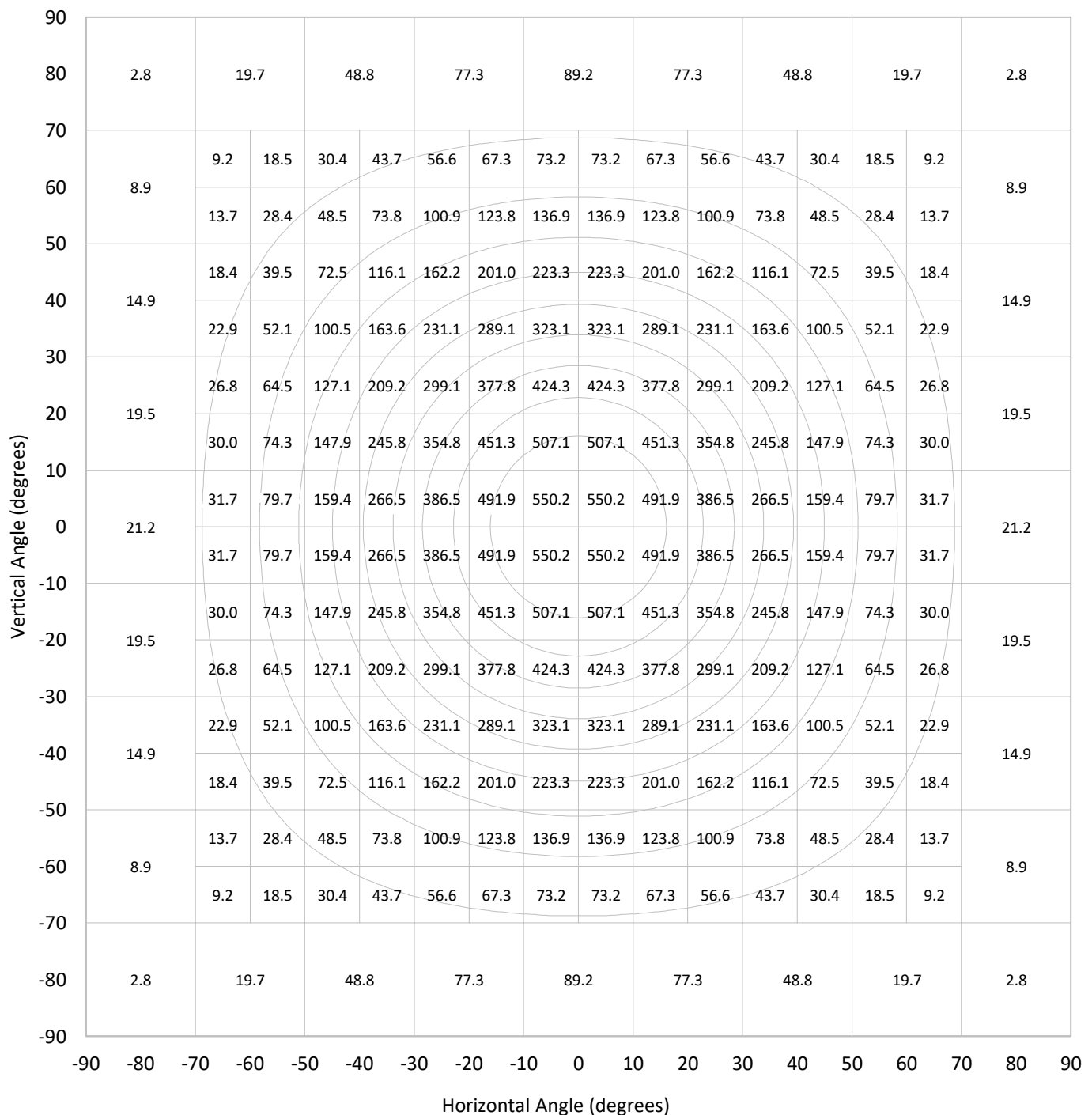
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Iso-Candela Plot



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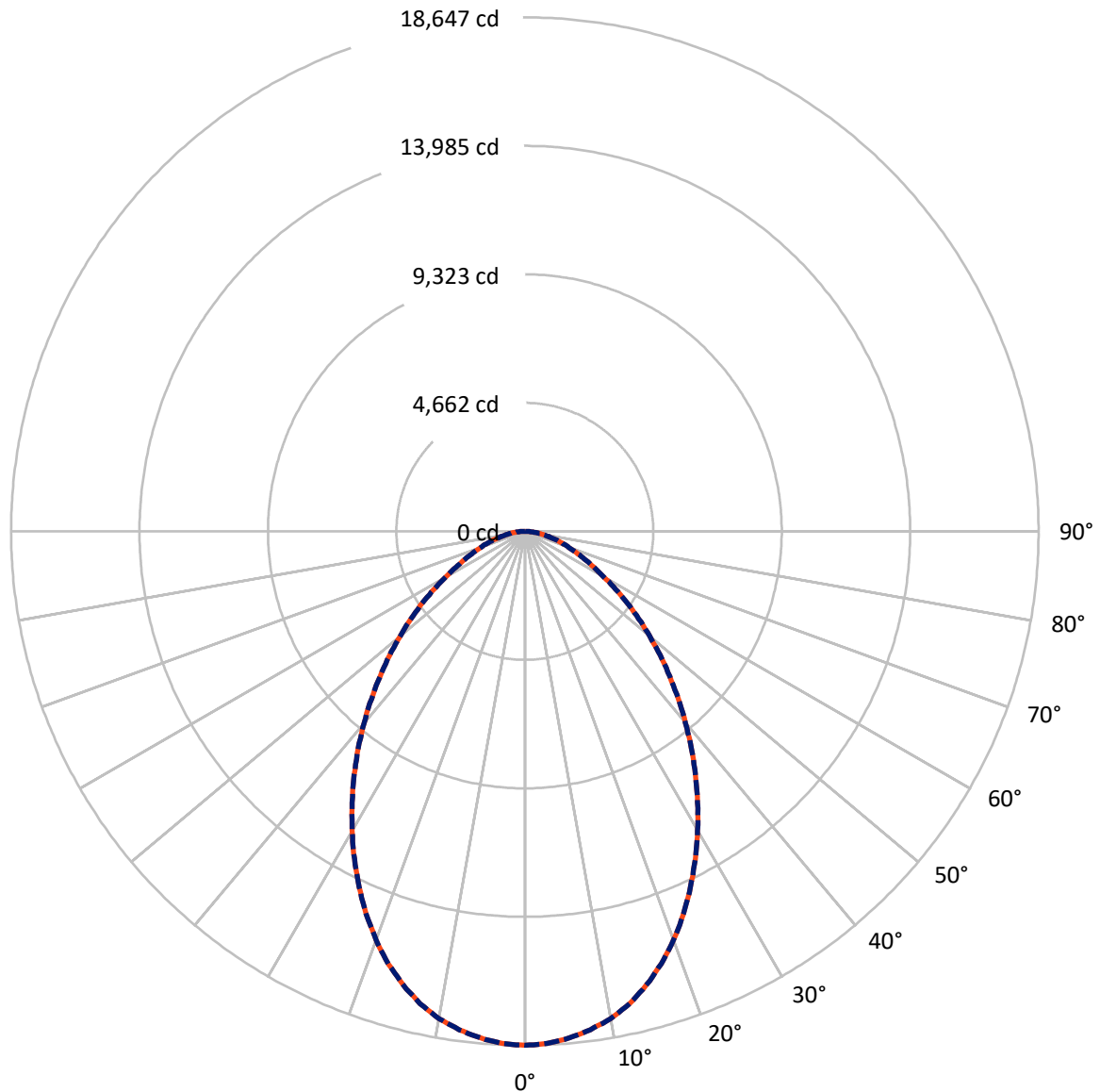
Lumen Table



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Luminous Intensity Polar Plot



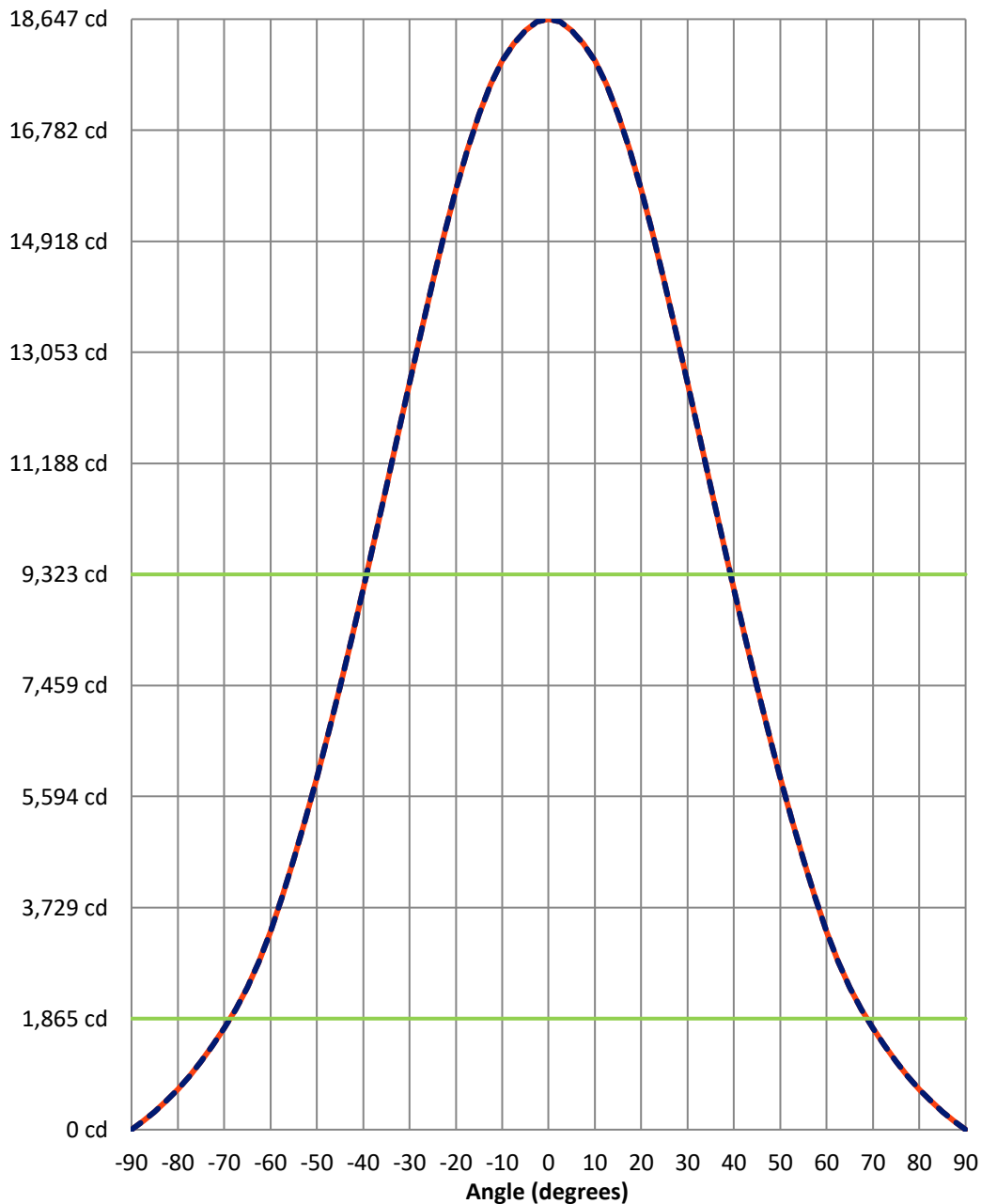
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14527.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 23787.8
Efficiency: 70.9%

Spill:

Lumens: 9786.4
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°	143.5	143.5	143.5	143.5	143.5	143.5	143.5	136.5	136.5	133.0	129.5
85°	301.0	301.0	301.0	301.0	301.0	294.0	290.5	287.0	283.5	276.5	273.0
82.5°	483.1	483.1	483.1	483.1	476.1	469.1	465.6	458.6	451.6	441.1	430.6
80°	675.6	675.6	675.6	675.6	665.1	658.1	647.6	640.6	630.1	616.1	602.1
77.5°	896.1	896.1	896.1	885.6	878.6	868.1	857.6	843.6	829.6	812.1	791.1
75°	1144.6	1144.6	1144.6	1130.6	1120.1	1109.6	1092.1	1074.6	1053.6	1029.1	1001.1
72.5°	1414.2	1414.2	1414.2	1396.7	1386.2	1368.7	1347.7	1323.2	1298.7	1267.2	1232.2
70°	1704.7	1704.7	1704.7	1683.7	1666.2	1648.7	1620.7	1592.7	1557.7	1522.7	1480.7
67.5°	2019.8	2019.8	2019.8	1995.3	1974.3	1949.8	1918.2	1883.2	1841.2	1792.2	1743.2
65°	2387.3	2387.3	2373.3	2352.3	2327.8	2292.8	2254.3	2205.3	2152.8	2089.8	2023.3
62.5°	2821.4	2821.4	2800.4	2775.9	2744.4	2698.9	2646.3	2583.3	2509.8	2429.3	2348.8
60°	3325.4	3325.4	3300.9	3269.4	3223.9	3167.9	3097.9	3017.4	2926.4	2824.9	2726.9
57.5°	3906.5	3906.5	3875.0	3833.0	3777.0	3707.0	3619.5	3518.0	3402.4	3276.4	3153.9
55°	4536.6	4536.6	4498.1	4449.1	4382.6	4298.6	4193.5	4074.5	3934.5	3791.0	3633.5
52.5°	5205.2	5205.2	5159.7	5103.7	5026.7	4928.6	4809.6	4669.6	4508.6	4340.6	4155.0
50°	5908.8	5908.8	5856.3	5793.3	5705.7	5590.2	5453.7	5292.7	5114.2	4918.1	4704.6
47.5°	6661.4	6661.4	6601.9	6528.3	6423.3	6290.3	6129.3	5943.8	5740.7	5520.2	5278.7
45°	7435.0	7435.0	7368.5	7284.4	7168.9	7018.4	6839.9	6661.4	6402.3	6146.8	5866.8
42.5°	8240.1	8240.1	8163.1	8068.6	7935.5	7771.0	7568.0	7337.0	7081.4	6794.4	6489.8
40°	9076.7	9076.7	8989.2	8880.7	8733.6	8544.6	8317.1	8058.0	7771.0	7452.5	7116.4
37.5°	9930.8	9930.8	9832.8	9713.8	9549.2	9339.2	9083.7	8796.6	8474.6	8121.1	7750.0
35°	10791.9	10791.9	10683.4	10553.9	10371.9	10140.8	9864.3	9545.7	9188.7	8803.6	8387.1
32.5°	11670.5	11670.5	11551.5	11404.5	11198.0	10942.4	10637.9	10291.3	9930.8	9482.7	9027.7
30°	12538.6	12538.6	12409.1	12248.1	12027.6	11747.5	11415.0	11033.4	10609.9	10151.3	9661.3
27.5°	13392.7	13357.7	13249.2	13077.7	12836.2	12538.6	12178.1	11765.0	11306.5	10802.4	10277.3
25°	14232.9	14194.3	14075.3	13886.3	13627.3	13301.7	12913.2	12472.1	11978.6	11446.5	10872.4
22.5°	15038.0	14996.0	14869.9	14666.9	14390.4	14036.8	13620.3	13147.7	12622.6	12052.1	11446.5
20°	15783.6	15738.0	15608.5	15395.0	15108.0	14733.4	14292.4	13784.8	13224.7	12622.6	11978.6
17.5°	16455.6	16410.1	16273.6	16053.1	15783.6	15367.0	14911.9	14376.4	13784.8	13147.7	12472.1
15°	17047.2	16998.2	16858.2	16637.7	16329.6	15937.6	15458.0	14911.9	14292.4	13620.3	12913.2
12.5°	17551.3	17502.3	17358.8	17138.2	16819.7	16427.6	15937.6	15367.0	14733.4	14036.8	13301.7
10°	17950.3	17901.3	17764.8	17554.8	17225.7	16819.7	16329.6	15783.6	15108.0	14390.4	13627.3
7.5°	18237.4	18191.9	18065.9	17855.8	17554.8	17138.2	16637.7	16053.1	15395.0	14666.9	13886.3
5°	18454.4	18401.9	18275.9	18065.9	17764.8	17358.8	16858.2	16273.6	15608.5	14869.9	14075.3
2.5°	18604.9	18541.9	18401.9	18191.9	17901.3	17502.3	16998.2	16410.1	15738.0	14996.0	14194.3
0°	18646.9	18604.9	18454.4	18237.4	17950.3	17551.3	17047.2	16455.6	15783.6	15038.0	14232.9

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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°	126.0	126.0	122.5	119.0	115.5	108.5	105.0	101.5	98.0	91.0	87.5
85°	266.0	259.0	252.0	245.0	234.5	227.5	217.0	210.0	199.5	189.0	178.5
82.5°	420.1	409.6	395.6	385.1	371.0	353.5	339.5	322.0	304.5	290.5	273.0
80°	588.1	570.6	553.1	535.6	514.6	493.6	472.6	451.6	427.1	402.6	378.0
77.5°	770.1	745.6	721.1	693.1	668.6	640.6	612.6	584.6	553.1	521.6	490.1
75°	973.1	941.6	906.6	871.6	840.1	801.6	763.1	724.6	682.6	644.1	602.1
72.5°	1193.7	1155.2	1113.1	1071.1	1025.6	976.6	927.6	875.1	826.1	777.1	724.6
70°	1431.7	1386.2	1333.7	1281.2	1225.2	1165.7	1106.1	1043.1	980.1	917.1	854.1
67.5°	1687.2	1631.2	1568.2	1505.2	1435.2	1365.2	1295.2	1221.7	1144.6	1067.6	994.1
65°	1960.3	1890.2	1816.7	1736.2	1655.7	1575.2	1491.2	1403.7	1316.2	1225.2	1144.6
62.5°	2264.8	2177.3	2082.8	1984.8	1893.7	1795.7	1704.7	1596.2	1491.2	1389.7	1288.2
60°	2618.3	2502.8	2387.3	2264.8	2149.3	2023.3	1911.2	1792.2	1673.2	1557.7	1438.7
57.5°	3013.9	2866.9	2726.9	2579.8	2425.8	2285.8	2142.3	1998.8	1865.7	1729.2	1599.7
55°	3462.0	3283.4	3108.4	2926.4	2747.9	2572.8	2390.8	2229.8	2065.3	1911.2	1760.7
52.5°	3952.0	3749.0	3532.0	3325.4	3097.9	2880.9	2677.8	2474.8	2282.3	2096.8	1925.3
50°	4477.1	4239.1	3990.5	3738.5	3479.5	3223.9	2978.9	2740.9	2516.8	2299.8	2096.8
47.5°	5023.2	4753.6	4470.1	4183.0	3906.5	3595.0	3300.9	3031.4	2761.9	2516.8	2282.3
45°	5583.2	5278.7	4967.1	4641.6	4316.1	3980.0	3654.5	3325.4	3031.4	2740.9	2474.8
42.5°	6160.8	5817.8	5471.2	5110.7	4750.1	4382.6	4015.0	3654.5	3300.9	2978.9	2677.8
40°	6755.9	6377.8	5982.3	5590.2	5205.2	4785.1	4382.6	3980.0	3595.0	3223.9	2880.9
37.5°	7351.0	6937.9	6510.8	6069.8	5628.7	5205.2	4750.1	4316.1	3906.5	3479.5	3097.9
35°	7949.5	7494.5	7032.4	6552.9	6069.8	5590.2	5110.7	4641.6	4183.0	3738.5	3325.4
32.5°	8551.6	8054.5	7543.5	7032.4	6510.8	5982.3	5471.2	4967.1	4470.1	3990.5	3532.0
30°	9143.2	8604.1	8054.5	7494.5	6937.9	6377.8	5817.8	5278.7	4753.6	4239.1	3749.0
27.5°	9720.8	9143.2	8551.6	7949.5	7351.0	6755.9	6160.8	5583.2	5023.2	4477.1	3952.0
25°	10277.3	9661.3	9027.7	8387.1	7750.0	7116.4	6489.8	5866.8	5278.7	4704.6	4155.0
22.5°	10802.4	10151.3	9482.7	8803.6	8121.1	7452.5	6794.4	6146.8	5520.2	4918.1	4340.6
20°	11306.5	10609.9	9930.8	9188.7	8474.6	7771.0	7081.4	6402.3	5740.7	5114.2	4508.6
17.5°	11765.0	11033.4	10291.3	9545.7	8796.6	8058.0	7337.0	6661.4	5943.8	5292.7	4669.6
15°	12178.1	11415.0	10637.9	9864.3	9083.7	8317.1	7568.0	6839.9	6129.3	5453.7	4809.6
12.5°	12538.6	11747.5	10942.4	10140.8	9339.2	8544.6	7771.0	7018.4	6290.3	5590.2	4928.6
10°	12836.2	12027.6	11198.0	10371.9	9549.2	8733.6	7935.5	7168.9	6423.3	5705.7	5026.7
7.5°	13077.7	12248.1	11404.5	10553.9	9713.8	8880.7	8068.6	7284.4	6528.3	5793.3	5103.7
5°	13249.2	12409.1	11551.5	10683.4	9832.8	8989.2	8163.1	7368.5	6601.9	5856.3	5159.7
2.5°	13357.7	12538.6	11670.5	10791.9	9930.8	9076.7	8240.1	7435.0	6661.4	5908.8	5205.2
0°	13392.7	12538.6	11670.5	10791.9	9930.8	9076.7	8240.1	7435.0	6661.4	5908.8	5205.2

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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°	84.0	77.0	70.0	66.5	59.5	56.0	49.0	42.0	38.5	31.5	24.5
85°	168.0	154.0	143.5	133.0	122.5	108.5	98.0	87.5	73.5	63.0	49.0
82.5°	255.5	238.0	220.5	203.0	185.5	168.0	147.0	129.5	112.0	94.5	73.5
80°	353.5	325.5	301.0	276.5	252.0	227.5	199.5	175.0	147.0	122.5	98.0
77.5°	455.1	423.6	388.6	353.5	318.5	287.0	252.0	220.5	189.0	154.0	122.5
75°	563.6	521.6	483.1	437.6	395.6	350.0	308.0	266.0	227.5	189.0	147.0
72.5°	675.6	623.1	570.6	521.6	469.1	416.6	367.5	315.0	266.0	220.5	175.0
70°	791.1	728.1	665.1	605.6	546.1	483.1	427.1	367.5	308.0	252.0	199.5
67.5°	913.6	840.1	766.6	689.6	623.1	553.1	483.1	416.6	350.0	287.0	227.5
65°	1046.6	959.1	868.1	787.6	700.1	623.1	546.1	469.1	395.6	318.5	252.0
62.5°	1183.2	1081.6	980.1	878.6	787.6	689.6	605.6	521.6	437.6	353.5	276.5
60°	1323.2	1207.7	1092.1	980.1	868.1	766.6	665.1	570.6	483.1	388.6	301.0
57.5°	1466.7	1337.2	1207.7	1081.6	959.1	840.1	728.1	623.1	521.6	423.6	325.5
55°	1613.7	1466.7	1323.2	1183.2	1046.6	913.6	791.1	675.6	563.6	455.1	353.5
52.5°	1760.7	1599.7	1438.7	1288.2	1144.6	994.1	854.1	724.6	602.1	490.1	378.0
50°	1911.2	1729.2	1557.7	1389.7	1225.2	1067.6	917.1	777.1	644.1	521.6	402.6
47.5°	2065.3	1865.7	1673.2	1491.2	1316.2	1144.6	980.1	826.1	682.6	553.1	427.1
45°	2229.8	1998.8	1792.2	1596.2	1403.7	1221.7	1043.1	875.1	724.6	584.6	451.6
42.5°	2390.8	2142.3	1911.2	1704.7	1491.2	1295.2	1106.1	927.6	763.1	612.6	472.6
40°	2572.8	2285.8	2023.3	1795.7	1575.2	1365.2	1165.7	976.6	801.6	640.6	493.6
37.5°	2747.9	2425.8	2149.3	1893.7	1655.7	1435.2	1225.2	1025.6	840.1	668.6	514.6
35°	2926.4	2579.8	2264.8	1984.8	1736.2	1505.2	1281.2	1071.1	871.6	693.1	535.6
32.5°	3108.4	2726.9	2387.3	2082.8	1816.7	1568.2	1333.7	1113.1	906.6	721.1	553.1
30°	3283.4	2866.9	2502.8	2177.3	1890.2	1631.2	1386.2	1155.2	941.6	745.6	570.6
27.5°	3462.0	3013.9	2618.3	2264.8	1960.3	1687.2	1431.7	1193.7	973.1	770.1	588.1
25°	3633.5	3153.9	2726.9	2348.8	2023.3	1743.2	1480.7	1232.2	1001.1	791.1	602.1
22.5°	3791.0	3276.4	2824.9	2429.3	2089.8	1792.2	1522.7	1267.2	1029.1	812.1	616.1
20°	3934.5	3402.4	2926.4	2509.8	2152.8	1841.2	1557.7	1298.7	1053.6	829.6	630.1
17.5°	4074.5	3518.0	3017.4	2583.3	2205.3	1883.2	1592.7	1323.2	1074.6	843.6	640.6
15°	4193.5	3619.5	3097.9	2646.3	2254.3	1918.2	1620.7	1347.7	1092.1	857.6	647.6
12.5°	4298.6	3707.0	3167.9	2698.9	2292.8	1949.8	1648.7	1368.7	1109.6	868.1	658.1
10°	4382.6	3777.0	3223.9	2744.4	2327.8	1974.3	1666.2	1386.2	1120.1	878.6	665.1
7.5°	4449.1	3833.0	3269.4	2775.9	2352.3	1995.3	1683.7	1396.7	1130.6	885.6	675.6
5°	4498.1	3875.0	3300.9	2800.4	2373.3	2019.8	1704.7	1414.2	1144.6	896.1	675.6
2.5°	4536.6	3906.5	3325.4	2821.4	2387.3	2019.8	1704.7	1414.2	1144.6	896.1	675.6
0°	4536.6	3906.5	3325.4	2821.4	2387.3	2019.8	1704.7	1414.2	1144.6	896.1	675.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.5	14.0	7.0	0.0
85°	38.5	24.5	14.0	0.0
82.5°	56.0	38.5	17.5	0.0
80°	73.5	49.0	24.5	0.0
77.5°	94.5	63.0	31.5	0.0
75°	112.0	73.5	38.5	0.0
72.5°	129.5	87.5	42.0	0.0
70°	147.0	98.0	49.0	0.0
67.5°	168.0	108.5	56.0	0.0
65°	185.5	122.5	59.5	0.0
62.5°	203.0	133.0	66.5	0.0
60°	220.5	143.5	70.0	0.0
57.5°	238.0	154.0	77.0	0.0
55°	255.5	168.0	84.0	0.0
52.5°	273.0	178.5	87.5	0.0
50°	290.5	189.0	91.0	0.0
47.5°	304.5	199.5	98.0	0.0
45°	322.0	210.0	101.5	0.0
42.5°	339.5	217.0	105.0	0.0
40°	353.5	227.5	108.5	0.0
37.5°	371.0	234.5	115.5	0.0
35°	385.1	245.0	119.0	0.0
32.5°	395.6	252.0	122.5	0.0
30°	409.6	259.0	126.0	0.0
27.5°	420.1	266.0	126.0	0.0
25°	430.6	273.0	129.5	0.0
22.5°	441.1	276.5	133.0	0.0
20°	451.6	283.5	136.5	0.0
17.5°	458.6	287.0	136.5	0.0
15°	465.6	290.5	143.5	0.0
12.5°	469.1	294.0	143.5	0.0
10°	476.1	301.0	143.5	0.0
7.5°	483.1	301.0	143.5	0.0
5°	483.1	301.0	143.5	0.0
2.5°	483.1	301.0	143.5	0.0
0°	483.1	301.0	143.5	0.0

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