

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: P628305

Luminaire Tested: **IFLD-S-SA6A-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628305
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

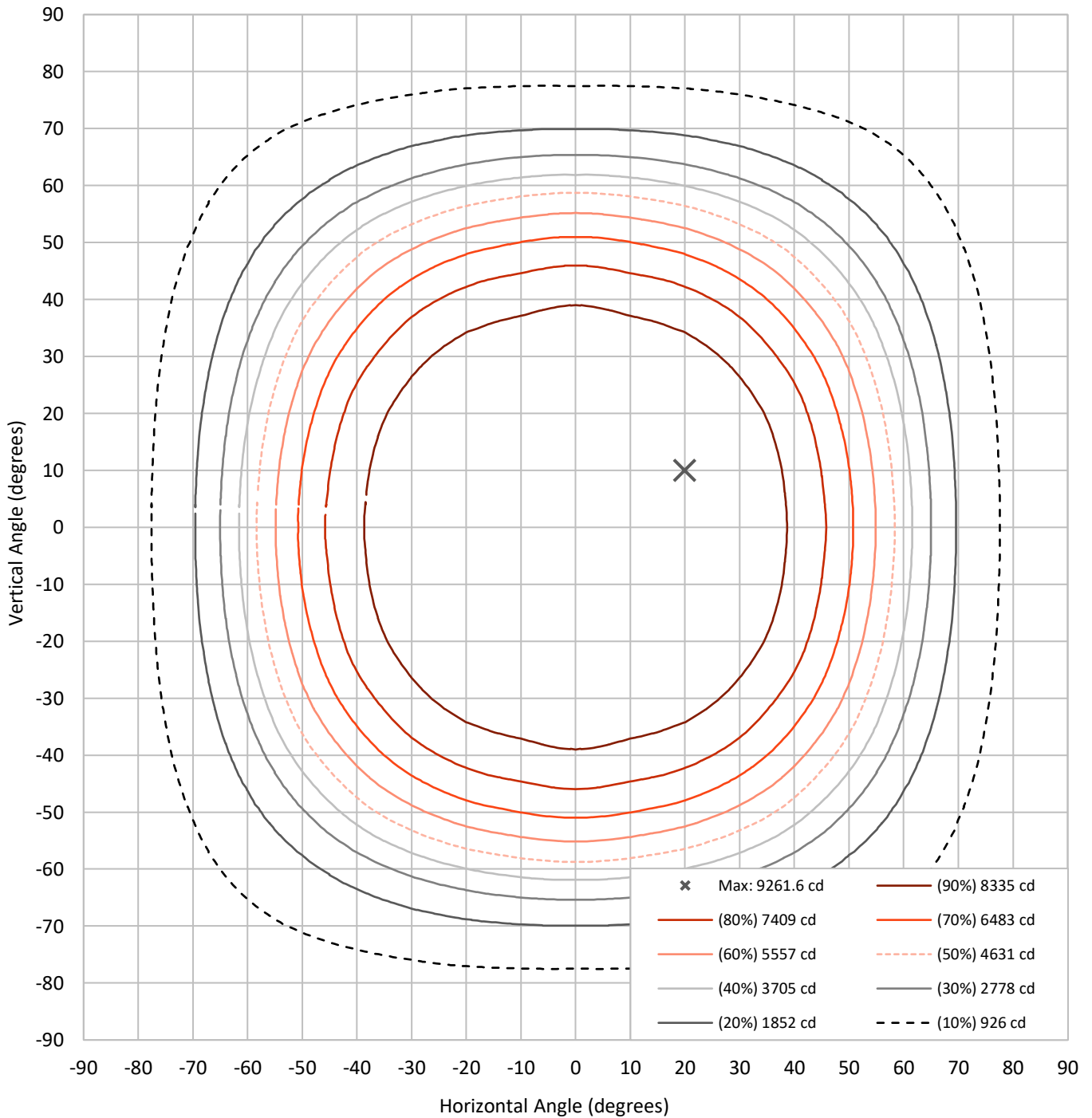
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28413.4 lumens	Max Intensity:	9261.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	149.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17435 lumens	Field Lumens:	20901.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	189.6		
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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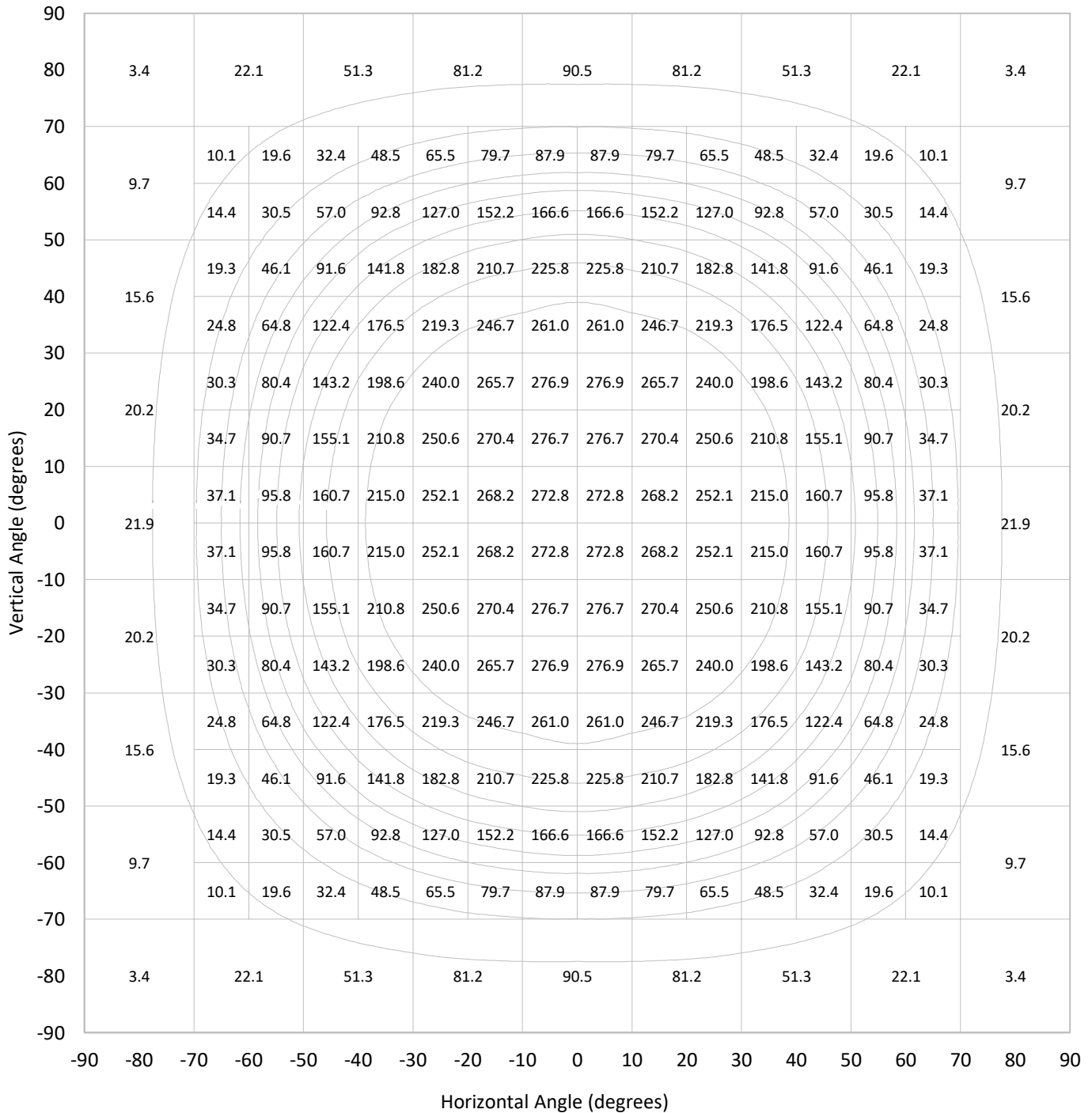
Iso-Candela Plot





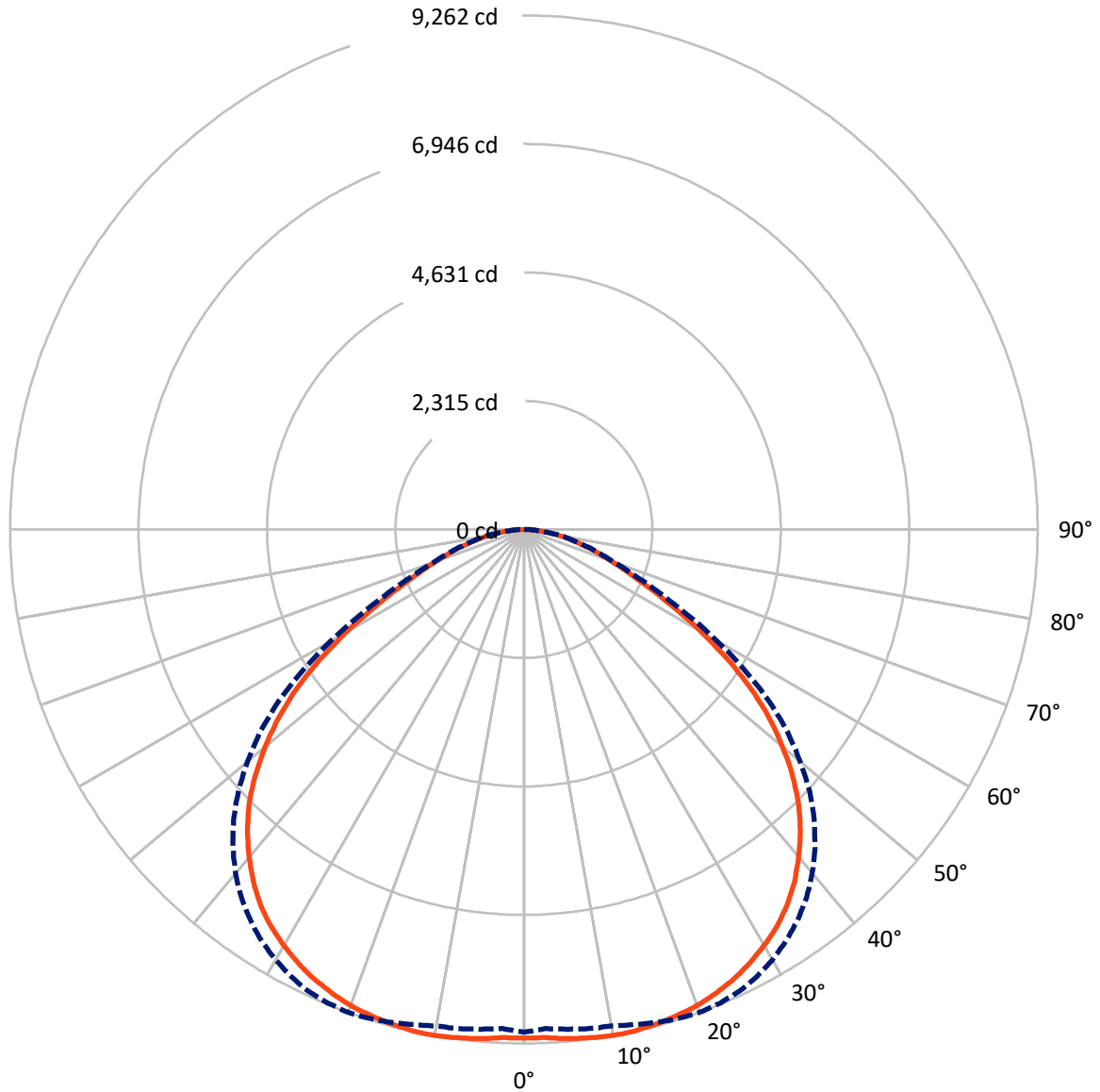
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Lumen Table



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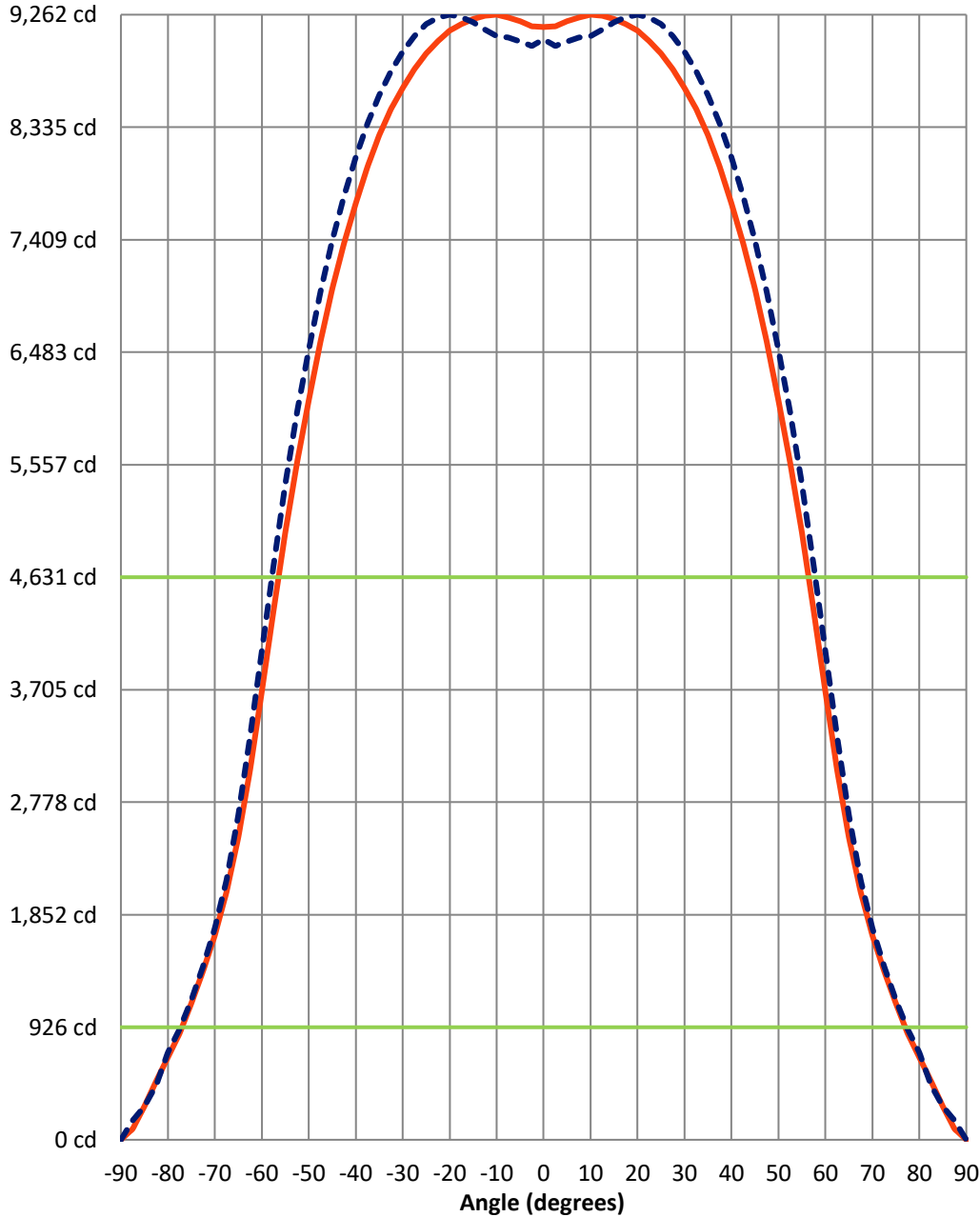
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 17435
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 20901.6
 Efficiency: 73.6%

Spill:
 Lumens: 7511.7
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-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°	74.7	80.7	83.7	86.7	89.7	92.7	95.7	92.7	89.7	89.7	86.7
85°	200.3	206.3	209.3	230.2	251.1	263.1	278.0	275.0	275.0	272.0	269.1
82.5°	400.6	418.5	433.5	454.4	466.4	484.3	496.3	487.3	481.3	469.4	460.4
80°	711.5	717.5	720.5	723.5	708.5	705.5	699.6	690.6	678.6	663.7	648.7
77.5°	905.8	911.8	917.8	911.8	908.8	905.8	896.9	887.9	875.9	864.0	846.0
75°	1198.8	1198.8	1198.8	1189.8	1183.9	1174.9	1159.9	1145.0	1124.1	1100.2	1073.2
72.5°	1509.7	1506.7	1503.7	1485.8	1470.9	1452.9	1432.0	1414.1	1390.1	1363.2	1327.4
70°	1835.6	1841.6	1844.5	1820.6	1802.7	1778.8	1751.9	1719.0	1683.1	1644.3	1593.4
67.5°	2284.0	2278.0	2272.1	2239.2	2215.3	2182.4	2143.5	2095.7	2041.9	1982.1	1910.3
65°	2840.1	2849.0	2831.1	2798.2	2753.4	2699.6	2639.8	2571.0	2490.3	2400.6	2299.0
62.5°	3512.7	3527.7	3506.7	3464.9	3408.1	3336.3	3252.6	3154.0	3043.4	2917.8	2792.2
60°	4278.0	4275.1	4236.2	4179.4	4104.6	4015.0	3922.3	3814.7	3689.1	3542.6	3390.1
57.5°	4980.6	4974.6	4926.8	4870.0	4795.2	4699.6	4600.9	4487.3	4355.8	4200.3	4023.9
55°	5611.4	5605.4	5557.6	5497.8	5420.0	5324.4	5234.7	5127.1	4998.5	4834.1	4645.8
52.5°	6170.4	6173.4	6131.6	6065.8	5982.1	5889.4	5802.7	5695.1	5572.5	5408.1	5225.7
50°	6684.6	6681.6	6636.8	6577.0	6499.3	6409.6	6322.9	6215.3	6086.7	5928.3	5751.9
47.5°	7163.0	7157.0	7106.2	7040.4	6959.7	6881.9	6801.2	6705.6	6571.0	6412.6	6236.2
45°	7563.6	7551.6	7500.8	7438.0	7360.3	7291.5	7219.8	7148.0	7004.5	6858.0	6690.6
42.5°	7907.3	7904.4	7853.5	7790.8	7713.0	7653.2	7587.5	7497.8	7378.2	7243.7	7079.2
40°	8236.2	8212.3	8161.5	8101.7	8029.9	7979.1	7913.3	7823.6	7707.0	7575.5	7417.1
37.5°	8481.3	8484.3	8430.5	8364.7	8302.0	8254.1	8194.3	8110.6	8009.0	7880.4	7722.0
35°	8714.5	8699.6	8654.7	8597.9	8541.1	8487.3	8424.5	8352.8	8269.1	8149.5	8000.0
32.5°	8867.0	8887.9	8834.1	8774.3	8741.4	8699.6	8633.8	8559.1	8484.3	8364.7	8230.2
30°	9034.4	9016.5	8974.6	8923.8	8899.9	8873.0	8816.2	8744.4	8657.7	8550.1	8424.5
27.5°	9151.0	9142.0	9091.2	9043.4	9031.4	9007.5	8962.7	8899.9	8813.2	8708.5	8592.0
25°	9201.8	9207.8	9160.0	9133.1	9133.1	9118.1	9082.2	9028.4	8941.7	8846.1	8732.5
22.5°	9225.7	9219.8	9186.9	9180.9	9195.8	9183.9	9168.9	9121.1	9043.4	8965.6	8870.0
20°	9240.7	9198.8	9168.9	9192.9	9210.8	9207.8	9195.8	9165.9	9130.1	9064.3	8980.6
17.5°	9207.8	9180.9	9145.0	9180.9	9219.8	9222.7	9210.8	9192.9	9183.9	9142.0	9067.3
15°	9127.1	9106.2	9112.1	9148.0	9192.9	9207.8	9216.8	9237.7	9225.7	9192.9	9127.1
12.5°	9073.3	9046.4	9073.3	9109.1	9133.1	9142.0	9213.8	9252.6	9252.6	9222.7	9180.9
10°	9058.3	9004.5	9040.4	9073.3	9085.2	9139.0	9198.8	9240.7	9261.6	9237.7	9183.9
7.5°	9028.4	8992.6	9007.5	9022.4	9091.2	9130.1	9163.0	9207.8	9237.7	9234.7	9186.9
5°	9013.5	8968.6	8974.6	9037.4	9085.2	9112.1	9124.1	9163.0	9207.8	9216.8	9180.9
2.5°	8974.6	8953.7	8998.5	9004.5	9040.4	9061.3	9073.3	9109.1	9165.9	9186.9	9171.9
0°	8953.7	8923.8	8893.9	8917.8	8977.6	9022.4	9040.4	9094.2	9160.0	9180.9	9148.0



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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°	83.7	80.7	77.7	74.7	77.7	77.7	77.7	74.7	77.7	74.7	74.7
85°	260.1	248.1	239.2	227.2	215.2	206.3	194.3	182.4	179.4	176.4	170.4
82.5°	448.4	433.5	418.5	400.6	382.7	361.7	340.8	316.9	310.9	304.9	296.0
80°	630.8	609.9	588.9	568.0	550.1	529.1	505.2	478.3	460.4	445.4	427.5
77.5°	822.1	792.2	762.3	726.5	705.5	684.6	660.7	633.8	606.9	583.0	556.1
75°	1040.4	1007.5	977.6	941.7	902.8	864.0	825.1	789.2	750.4	714.5	678.6
72.5°	1282.5	1234.7	1186.8	1142.0	1094.2	1046.3	995.5	947.7	899.9	852.0	801.2
70°	1536.6	1476.8	1417.0	1357.3	1294.5	1231.7	1171.9	1112.1	1052.3	989.5	932.7
67.5°	1835.6	1766.8	1689.1	1605.4	1512.7	1432.0	1354.3	1282.5	1210.8	1139.0	1067.3
65°	2209.3	2113.6	2009.0	1895.4	1787.7	1680.1	1566.5	1458.9	1375.2	1291.5	1210.8
62.5°	2669.7	2535.1	2388.6	2242.2	2110.6	1970.1	1838.6	1698.1	1566.5	1446.9	1348.3
60°	3219.7	3037.4	2858.0	2669.7	2487.3	2296.0	2128.6	1955.2	1790.7	1644.3	1500.8
57.5°	3826.6	3614.4	3399.1	3168.9	2920.8	2696.6	2469.4	2242.2	2047.8	1853.5	1692.1
55°	4442.5	4218.2	3976.1	3716.0	3444.0	3157.0	2849.0	2594.9	2328.9	2101.7	1892.4
52.5°	5028.4	4795.2	4544.1	4304.9	3979.1	3650.2	3312.4	2977.6	2666.7	2376.7	2122.6
50°	5551.6	5324.4	5082.2	4804.2	4502.3	4152.5	3775.8	3399.1	3031.4	2690.6	2373.7
47.5°	6029.9	5808.7	5566.5	5288.5	5013.5	4624.8	4245.2	3829.6	3420.0	3028.4	2657.7
45°	6478.3	6254.1	6003.0	5736.9	5420.0	5073.3	4681.6	4263.1	3823.6	3384.2	2956.7
42.5°	6884.9	6660.7	6406.6	6131.6	5817.7	5473.9	5094.2	4672.7	4230.2	3751.9	3282.5
40°	7240.7	7022.4	6777.3	6490.3	6197.3	5835.6	5461.9	5061.3	4603.9	4122.6	3605.4
37.5°	7551.6	7348.3	7106.2	6822.1	6511.2	6188.4	5802.7	5402.1	4989.6	4466.4	3937.2
35°	7826.6	7638.3	7390.2	7121.1	6816.2	6475.4	6113.6	5722.0	5276.5	4786.3	4272.1
32.5°	8065.8	7874.5	7647.3	7378.2	7082.2	6762.4	6391.6	5997.0	5575.5	5076.2	4517.2
30°	8269.1	8083.7	7868.5	7614.4	7330.4	7013.5	6651.7	6254.1	5823.6	5327.4	4774.3
27.5°	8445.5	8269.1	8059.8	7823.6	7551.6	7246.7	6881.9	6481.3	6041.9	5563.5	5010.5
25°	8597.9	8427.5	8233.2	8009.0	7739.9	7441.0	7097.2	6678.6	6239.2	5757.9	5210.8
22.5°	8735.5	8571.0	8376.7	8158.5	7913.3	7614.4	7267.6	6852.0	6406.6	5931.3	5393.1
20°	8858.0	8705.6	8514.2	8290.0	8044.9	7742.9	7399.1	7004.5	6556.1	6089.7	5557.6
17.5°	8956.7	8822.1	8630.8	8394.6	8149.5	7856.5	7521.7	7160.0	6684.6	6224.2	5695.1
15°	9025.4	8893.9	8720.5	8481.3	8242.2	7952.2	7617.4	7243.7	6801.2	6331.9	5808.7
12.5°	9073.3	8932.8	8771.3	8550.1	8310.9	8023.9	7698.1	7330.4	6899.9	6427.5	5907.3
10°	9085.2	8956.7	8795.2	8597.9	8364.7	8086.7	7766.8	7402.1	6980.6	6502.3	5988.1
7.5°	9091.2	8968.6	8822.1	8633.8	8403.6	8134.6	7817.7	7458.9	7040.4	6565.0	6047.9
5°	9088.2	8971.6	8840.1	8657.7	8427.5	8161.5	7850.5	7497.8	7082.2	6606.9	6092.7
2.5°	9079.3	8974.6	8852.0	8675.7	8454.4	8191.4	7883.4	7542.6	7127.1	6642.8	6128.6
0°	9103.2	9013.5	8858.0	8669.7	8460.4	8191.4	7880.4	7548.6	7133.1	6639.8	6125.6



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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°	74.7	71.7	71.7	68.8	65.8	62.8	56.8	53.8	47.8	38.9	29.9
85°	161.4	152.5	143.5	137.5	131.5	125.6	116.6	107.6	95.7	77.7	59.8
82.5°	284.0	266.1	248.1	227.2	209.3	191.3	176.4	161.4	143.5	116.6	89.7
80°	406.6	379.7	352.8	322.9	296.0	266.1	239.2	215.2	191.3	155.5	119.6
77.5°	529.1	493.3	454.4	418.5	379.7	340.8	301.9	269.1	233.2	191.3	149.5
75°	642.8	600.9	565.0	514.2	466.4	415.5	364.7	319.9	275.0	224.2	179.4
72.5°	756.4	702.5	651.7	603.9	550.1	487.3	430.5	373.7	316.9	257.1	203.3
70°	870.0	804.2	741.4	684.6	624.8	562.0	493.3	427.5	358.7	287.0	224.2
67.5°	986.6	911.8	840.1	768.3	699.6	627.8	556.1	481.3	400.6	316.9	248.1
65°	1115.1	1022.4	935.7	855.0	774.3	696.6	615.8	535.1	445.4	349.8	269.1
62.5°	1243.7	1142.0	1040.4	938.7	849.0	762.3	675.6	586.0	487.3	385.7	290.0
60°	1381.2	1264.6	1148.0	1034.4	923.8	828.1	732.4	636.8	532.1	418.5	310.9
57.5°	1533.6	1393.1	1261.6	1133.0	1007.5	893.9	789.2	687.6	571.0	451.4	334.8
55°	1707.0	1533.6	1378.2	1234.7	1097.2	959.6	846.0	741.4	615.8	484.3	361.7
52.5°	1889.4	1689.1	1500.8	1339.3	1192.8	1037.4	899.9	783.3	660.7	517.2	385.7
50°	2101.7	1847.5	1638.3	1441.0	1276.5	1115.1	956.7	831.1	705.5	556.1	409.6
47.5°	2319.9	2038.9	1775.8	1560.5	1366.2	1189.8	1022.4	872.9	747.4	591.9	433.5
45°	2574.0	2221.2	1931.2	1677.1	1452.9	1267.6	1088.2	917.8	783.3	627.8	457.4
42.5°	2819.1	2436.5	2092.7	1805.7	1551.6	1342.3	1148.0	965.6	819.1	663.7	478.3
40°	3109.1	2651.7	2248.1	1928.3	1650.2	1414.1	1207.8	1016.4	852.0	696.6	499.3
37.5°	3387.2	2870.0	2436.5	2062.8	1745.9	1485.8	1267.6	1064.3	881.9	729.4	526.2
35°	3662.2	3112.1	2615.9	2188.3	1844.5	1566.5	1327.4	1109.1	911.8	756.4	550.1
32.5°	3925.3	3339.3	2798.2	2328.9	1952.2	1641.3	1381.2	1151.0	941.7	780.3	574.0
30°	4170.4	3554.6	2977.6	2472.4	2050.8	1710.0	1432.0	1192.8	977.6	801.2	597.9
27.5°	4394.6	3763.8	3157.0	2606.9	2143.5	1772.8	1485.8	1231.7	1007.5	822.1	618.8
25°	4597.9	3952.2	3321.4	2729.5	2227.2	1841.6	1536.6	1270.6	1034.4	840.1	636.8
22.5°	4789.3	4125.6	3470.9	2852.0	2328.9	1910.3	1584.5	1306.4	1061.3	858.0	654.7
20°	4956.7	4284.0	3614.4	2974.6	2418.5	1973.1	1626.3	1339.3	1085.2	870.0	672.6
17.5°	5091.2	4424.5	3742.9	3082.2	2496.3	2026.9	1662.2	1369.2	1106.1	884.9	684.6
15°	5210.8	4544.1	3850.5	3174.9	2565.0	2071.8	1695.1	1393.1	1124.1	893.9	699.6
12.5°	5312.4	4645.8	3943.2	3255.6	2624.8	2110.6	1722.0	1411.1	1139.0	902.8	708.5
10°	5396.1	4726.5	4020.9	3318.4	2672.7	2140.5	1742.9	1429.0	1151.0	911.8	717.5
7.5°	5458.9	4786.3	4077.7	3372.2	2711.5	2161.4	1760.8	1441.0	1162.9	917.8	732.4
5°	5506.7	4837.1	4122.6	3408.1	2741.4	2191.3	1781.8	1455.9	1174.9	923.8	732.4
2.5°	5542.6	4878.9	4158.5	3438.0	2765.3	2185.4	1781.8	1452.9	1174.9	923.8	729.4
0°	5536.6	4881.9	4155.5	3438.0	2765.3	2179.4	1781.8	1449.9	1174.9	923.8	729.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.9	14.9	6.0	0.0
85°	44.8	29.9	14.9	0.0
82.5°	65.8	41.9	20.9	0.0
80°	86.7	56.8	26.9	0.0
77.5°	110.6	71.7	35.9	0.0
75°	131.5	83.7	41.9	0.0
72.5°	152.5	98.7	47.8	0.0
70°	170.4	110.6	53.8	0.0
67.5°	188.3	125.6	62.8	0.0
65°	203.3	137.5	68.8	0.0
62.5°	215.2	152.5	74.7	0.0
60°	230.2	164.4	80.7	0.0
57.5°	242.2	173.4	86.7	0.0
55°	254.1	179.4	92.7	0.0
52.5°	266.1	188.3	98.7	0.0
50°	278.0	197.3	104.6	0.0
47.5°	290.0	203.3	107.6	0.0
45°	307.9	212.3	113.6	0.0
42.5°	322.9	218.2	119.6	0.0
40°	337.8	224.2	122.6	0.0
37.5°	352.8	230.2	128.6	0.0
35°	367.7	236.2	131.5	0.0
32.5°	379.7	242.2	134.5	0.0
30°	391.6	248.1	137.5	0.0
27.5°	403.6	251.1	140.5	0.0
25°	412.6	257.1	143.5	0.0
22.5°	421.5	260.1	146.5	0.0
20°	427.5	263.1	149.5	0.0
17.5°	436.5	266.1	152.5	0.0
15°	439.5	269.1	158.4	0.0
12.5°	445.4	272.0	158.4	0.0
10°	448.4	275.0	158.4	0.0
7.5°	454.4	275.0	158.4	0.0
5°	451.4	275.0	158.4	0.0
2.5°	451.4	275.0	158.4	0.0
0°	448.4	275.0	158.4	0.0

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