

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: P624549

Luminaire Tested: **IFLD-L-SA8A-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

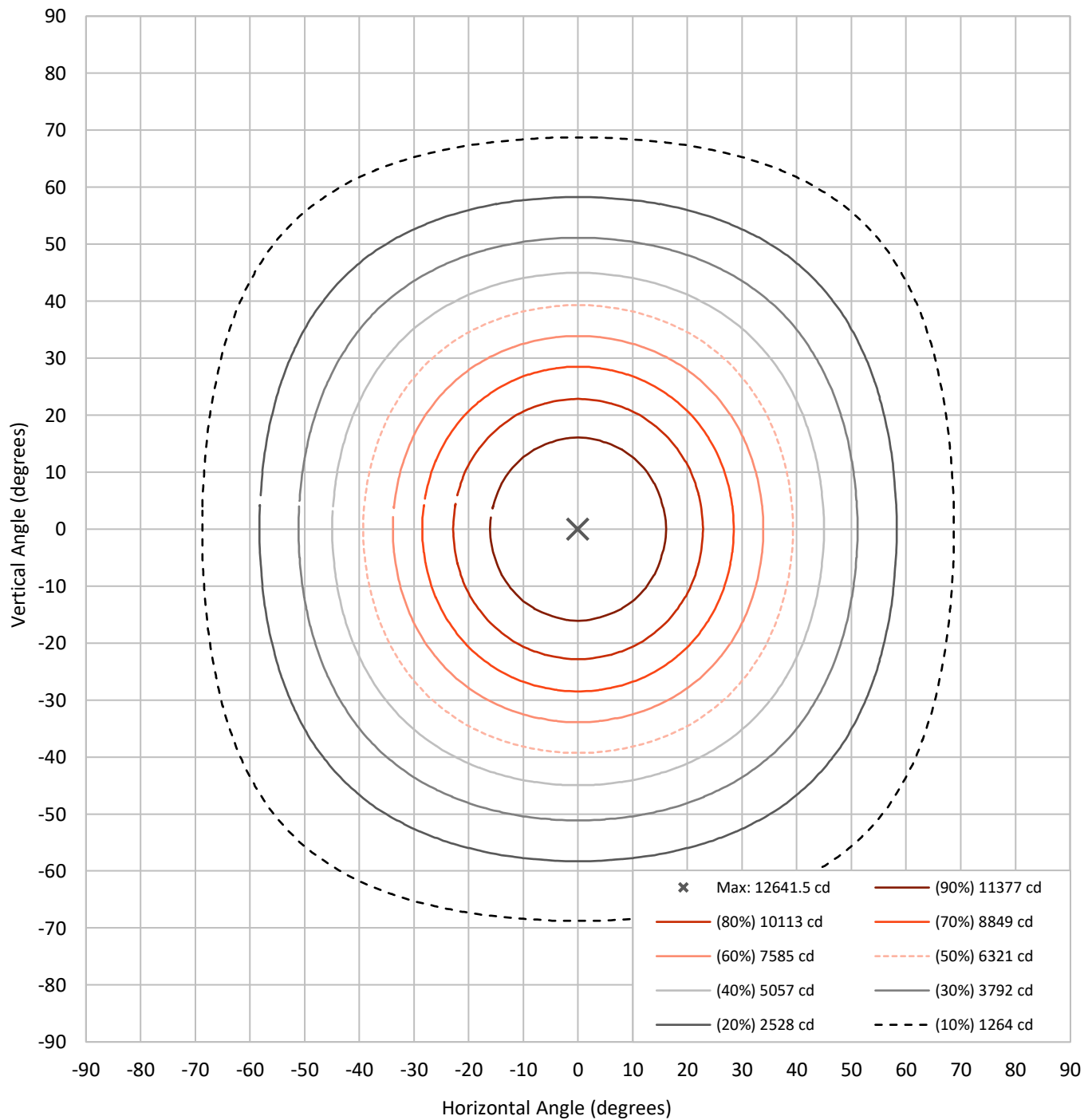
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22761.3 lumens	Max Intensity:	12641.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	9848.6 lumens	Field Lumens:	16126.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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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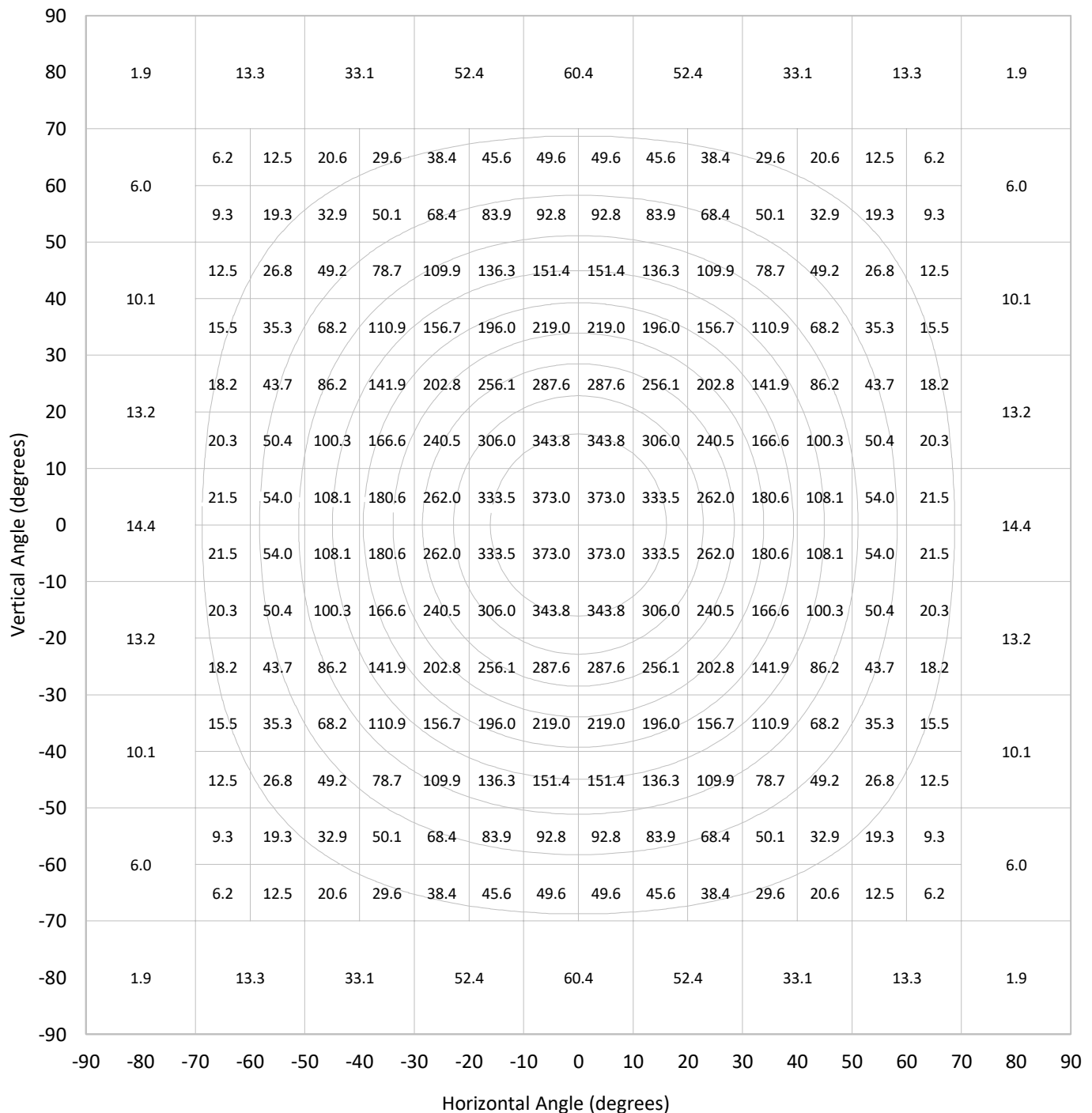
Iso-Candela Plot



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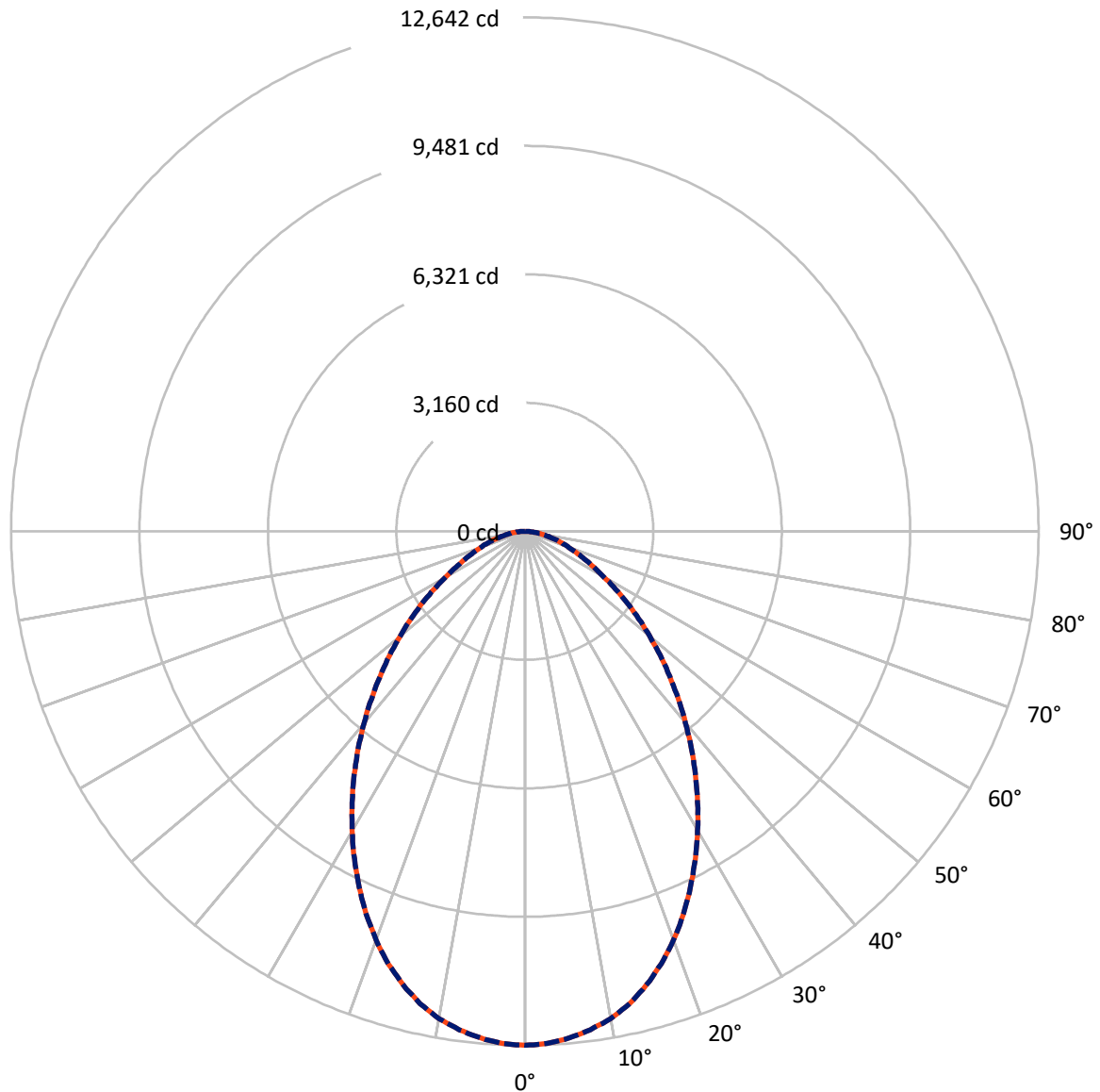
Lumen Table



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Luminous Intensity Polar Plot



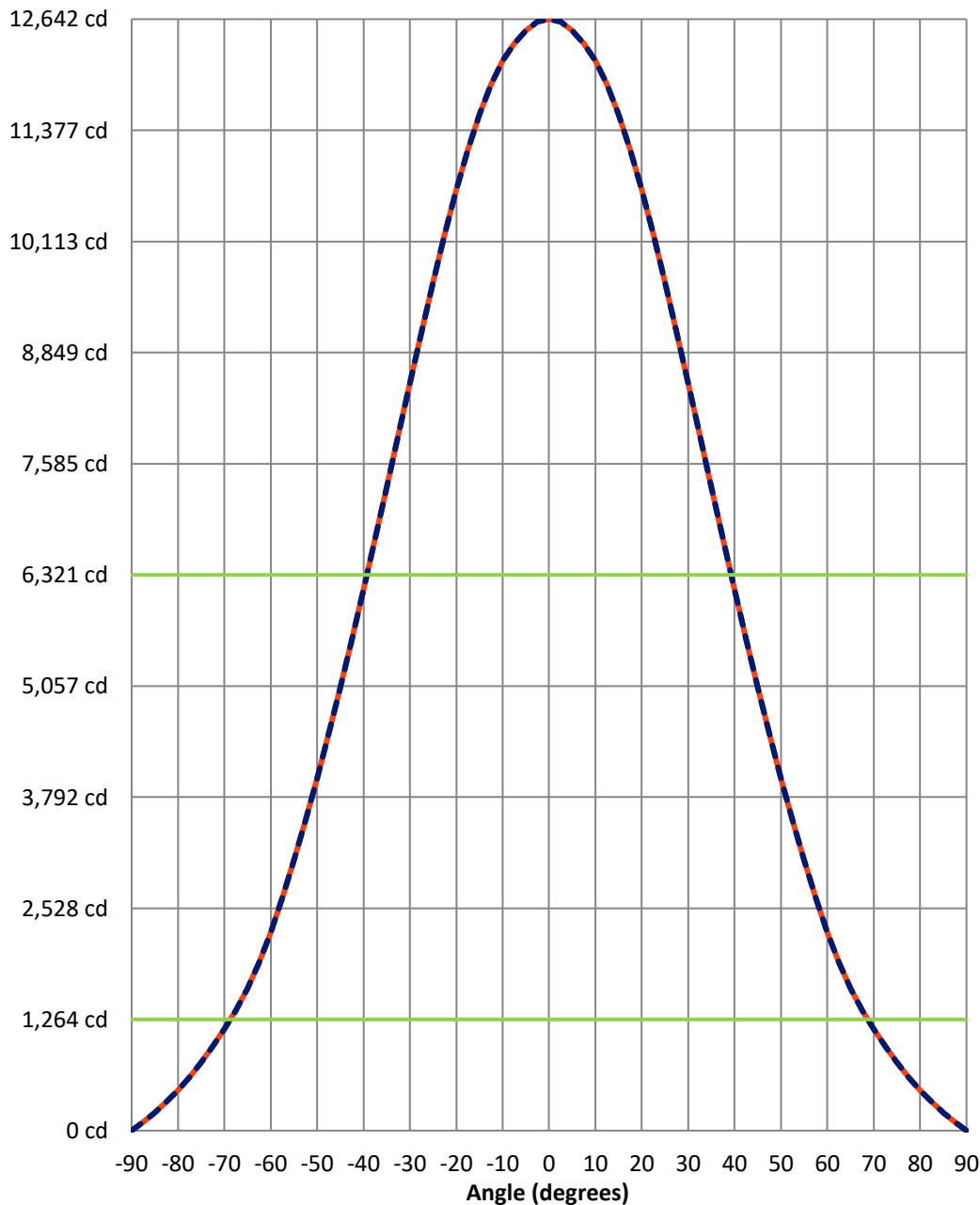
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 9848.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16126.7
Efficiency: 70.9%

Spill:

Lumens: 6634.6
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°	97.3	97.3	97.3	97.3	97.3	97.3	97.3	92.6	92.6	90.2	87.8
85°	204.1	204.1	204.1	204.1	204.1	199.3	197.0	194.6	192.2	187.5	185.1
82.5°	327.5	327.5	327.5	327.5	322.7	318.0	315.6	310.9	306.1	299.0	291.9
80°	458.0	458.0	458.0	458.0	450.9	446.1	439.0	434.3	427.2	417.7	408.2
77.5°	607.5	607.5	607.5	600.4	595.6	588.5	581.4	571.9	562.4	550.6	536.3
75°	776.0	776.0	776.0	766.5	759.4	752.3	740.4	728.5	714.3	697.7	678.7
72.5°	958.7	958.7	958.7	946.9	939.7	927.9	913.6	897.0	880.4	859.1	835.3
70°	1155.7	1155.7	1155.7	1141.5	1129.6	1117.7	1098.7	1079.8	1056.0	1032.3	1003.8
67.5°	1369.3	1369.3	1369.3	1352.7	1338.4	1321.8	1300.5	1276.7	1248.2	1215.0	1181.8
65°	1618.5	1618.5	1609.0	1594.7	1578.1	1554.4	1528.3	1495.1	1459.5	1416.7	1371.6
62.5°	1912.7	1912.7	1898.5	1881.9	1860.5	1829.7	1794.1	1751.3	1701.5	1646.9	1592.3
60°	2254.4	2254.4	2237.8	2216.5	2185.6	2147.7	2100.2	2045.6	1983.9	1915.1	1848.6
57.5°	2648.4	2648.4	2627.0	2598.5	2560.6	2513.1	2453.8	2385.0	2306.6	2221.2	2138.2
55°	3075.5	3075.5	3049.4	3016.2	2971.1	2914.2	2843.0	2762.3	2667.4	2570.1	2463.3
52.5°	3528.8	3528.8	3497.9	3460.0	3407.8	3341.3	3260.6	3165.7	3056.5	2942.6	2816.9
50°	4005.8	4005.8	3970.2	3927.5	3868.1	3789.8	3697.3	3588.1	3467.1	3334.2	3189.4
47.5°	4516.0	4516.0	4475.7	4425.8	4354.6	4264.5	4155.3	4029.5	3891.9	3742.4	3578.6
45°	5040.5	5040.5	4995.4	4938.4	4860.1	4758.1	4637.0	4516.0	4340.4	4167.2	3977.3
42.5°	5586.3	5586.3	5534.1	5470.0	5379.8	5268.3	5130.6	4974.0	4800.8	4606.2	4399.7
40°	6153.4	6153.4	6094.1	6020.5	5920.9	5792.7	5638.5	5462.9	5268.3	5052.3	4824.5
37.5°	6732.5	6732.5	6666.0	6585.3	6473.8	6331.4	6158.2	5963.6	5745.3	5505.6	5254.0
35°	7316.3	7316.3	7242.7	7154.9	7031.5	6874.9	6687.4	6471.4	6229.4	5968.3	5685.9
32.5°	7911.9	7911.9	7831.2	7731.5	7591.5	7418.3	7211.8	6976.9	6732.5	6428.7	6120.2
30°	8500.4	8500.4	8412.6	8303.5	8154.0	7964.1	7738.7	7480.0	7192.9	6882.0	6549.7
27.5°	9079.5	9055.7	8982.2	8865.9	8702.1	8500.4	8256.0	7976.0	7665.1	7323.4	6967.4
25°	9649.0	9622.9	9542.2	9414.1	9238.5	9017.8	8754.4	8455.3	8120.7	7760.0	7370.8
22.5°	10194.8	10166.3	10080.9	9943.3	9755.8	9516.1	9233.7	8913.3	8557.4	8170.6	7760.0
20°	10700.3	10669.4	10581.6	10436.9	10242.3	9988.4	9689.4	9345.3	8965.6	8557.4	8120.7
17.5°	11155.9	11125.1	11032.5	10883.0	10700.3	10417.9	10109.4	9746.3	9345.3	8913.3	8455.3
15°	11557.0	11523.8	11428.8	11279.3	11070.5	10804.7	10479.6	10109.4	9689.4	9233.7	8754.4
12.5°	11898.7	11865.5	11768.2	11618.7	11402.7	11136.9	10804.7	10417.9	9988.4	9516.1	9017.8
10°	12169.2	12136.0	12043.5	11901.1	11678.0	11402.7	11070.5	10700.3	10242.3	9755.8	9238.5
7.5°	12363.8	12333.0	12247.5	12105.2	11901.1	11618.7	11279.3	10883.0	10436.9	9943.3	9414.1
5°	12511.0	12475.4	12389.9	12247.5	12043.5	11768.2	11428.8	11032.5	10581.6	10080.9	9542.2
2.5°	12613.0	12570.3	12475.4	12333.0	12136.0	11865.5	11523.8	11125.1	10669.4	10166.3	9622.9
0°	12641.5	12613.0	12511.0	12363.8	12169.2	11898.7	11557.0	11155.9	10700.3	10194.8	9649.0

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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°	85.4	85.4	83.1	80.7	78.3	73.6	71.2	68.8	66.4	61.7	59.3
85°	180.4	175.6	170.9	166.1	159.0	154.3	147.1	142.4	135.3	128.1	121.0
82.5°	284.8	277.7	268.2	261.0	251.5	239.7	230.2	218.3	206.5	197.0	185.1
80°	398.7	386.8	374.9	363.1	348.8	334.6	320.4	306.1	289.5	272.9	256.3
77.5°	522.1	505.5	488.9	469.9	453.3	434.3	415.3	396.3	374.9	353.6	332.2
75°	659.7	638.4	614.6	590.9	569.5	543.4	517.3	491.2	462.8	436.6	408.2
72.5°	809.2	783.1	754.6	726.2	695.3	662.1	628.9	593.3	560.1	526.8	491.2
70°	970.6	939.7	904.1	868.6	830.6	790.2	749.9	707.2	664.5	621.8	579.0
67.5°	1143.8	1105.9	1063.1	1020.4	973.0	925.5	878.0	828.2	776.0	723.8	674.0
65°	1328.9	1281.5	1231.6	1177.1	1122.5	1067.9	1010.9	951.6	892.3	830.6	776.0
62.5°	1535.4	1476.1	1412.0	1345.5	1283.8	1217.4	1155.7	1082.1	1010.9	942.1	873.3
60°	1775.1	1696.8	1618.5	1535.4	1457.1	1371.6	1295.7	1215.0	1134.3	1056.0	975.3
57.5°	2043.2	1943.6	1848.6	1749.0	1644.6	1549.6	1452.3	1355.0	1264.9	1172.3	1084.5
55°	2347.0	2226.0	2107.3	1983.9	1862.9	1744.2	1620.8	1511.7	1400.1	1295.7	1193.7
52.5°	2679.2	2541.6	2394.5	2254.4	2100.2	1953.1	1815.4	1677.8	1547.3	1421.5	1305.2
50°	3035.2	2873.8	2705.3	2534.5	2358.9	2185.6	2019.5	1858.1	1706.3	1559.1	1421.5
47.5°	3405.4	3222.7	3030.4	2835.8	2648.4	2437.2	2237.8	2055.1	1872.4	1706.3	1547.3
45°	3785.1	3578.6	3367.4	3146.7	2926.0	2698.2	2477.5	2254.4	2055.1	1858.1	1677.8
42.5°	4176.6	3944.1	3709.1	3464.7	3220.3	2971.1	2721.9	2477.5	2237.8	2019.5	1815.4
40°	4580.1	4323.8	4055.6	3789.8	3528.8	3244.0	2971.1	2698.2	2437.2	2185.6	1953.1
37.5°	4983.5	4703.5	4414.0	4114.9	3815.9	3528.8	3220.3	2926.0	2648.4	2358.9	2100.2
35°	5389.3	5080.8	4767.5	4442.4	4114.9	3789.8	3464.7	3146.7	2835.8	2534.5	2254.4
32.5°	5797.5	5460.5	5114.0	4767.5	4414.0	4055.6	3709.1	3367.4	3030.4	2705.3	2394.5
30°	6198.5	5833.1	5460.5	5080.8	4703.5	4323.8	3944.1	3578.6	3222.7	2873.8	2541.6
27.5°	6590.1	6198.5	5797.5	5389.3	4983.5	4580.1	4176.6	3785.1	3405.4	3035.2	2679.2
25°	6967.4	6549.7	6120.2	5685.9	5254.0	4824.5	4399.7	3977.3	3578.6	3189.4	2816.9
22.5°	7323.4	6882.0	6428.7	5968.3	5505.6	5052.3	4606.2	4167.2	3742.4	3334.2	2942.6
20°	7665.1	7192.9	6732.5	6229.4	5745.3	5268.3	4800.8	4340.4	3891.9	3467.1	3056.5
17.5°	7976.0	7480.0	6976.9	6471.4	5963.6	5462.9	4974.0	4516.0	4029.5	3588.1	3165.7
15°	8256.0	7738.7	7211.8	6687.4	6158.2	5638.5	5130.6	4637.0	4155.3	3697.3	3260.6
12.5°	8500.4	7964.1	7418.3	6874.9	6331.4	5792.7	5268.3	4758.1	4264.5	3789.8	3341.3
10°	8702.1	8154.0	7591.5	7031.5	6473.8	5920.9	5379.8	4860.1	4354.6	3868.1	3407.8
7.5°	8865.9	8303.5	7731.5	7154.9	6585.3	6020.5	5470.0	4938.4	4425.8	3927.5	3460.0
5°	8982.2	8412.6	7831.2	7242.7	6666.0	6094.1	5534.1	4995.4	4475.7	3970.2	3497.9
2.5°	9055.7	8500.4	7911.9	7316.3	6732.5	6153.4	5586.3	5040.5	4516.0	4005.8	3528.8
0°	9079.5	8500.4	7911.9	7316.3	6732.5	6153.4	5586.3	5040.5	4516.0	4005.8	3528.8

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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°	57.0	52.2	47.5	45.1	40.3	38.0	33.2	28.5	26.1	21.4	16.6
85°	113.9	104.4	97.3	90.2	83.1	73.6	66.4	59.3	49.8	42.7	33.2
82.5°	173.2	161.4	149.5	137.6	125.8	113.9	99.7	87.8	75.9	64.1	49.8
80°	239.7	220.7	204.1	187.5	170.9	154.3	135.3	118.7	99.7	83.1	66.4
77.5°	308.5	287.1	263.4	239.7	216.0	194.6	170.9	149.5	128.1	104.4	83.1
75°	382.1	353.6	327.5	296.6	268.2	237.3	208.8	180.4	154.3	128.1	99.7
72.5°	458.0	422.4	386.8	353.6	318.0	282.4	249.2	213.6	180.4	149.5	118.7
70°	536.3	493.6	450.9	410.5	370.2	327.5	289.5	249.2	208.8	170.9	135.3
67.5°	619.4	569.5	519.7	467.5	422.4	374.9	327.5	282.4	237.3	194.6	154.3
65°	709.6	650.2	588.5	533.9	474.6	422.4	370.2	318.0	268.2	216.0	170.9
62.5°	802.1	733.3	664.5	595.6	533.9	467.5	410.5	353.6	296.6	239.7	187.5
60°	897.0	818.7	740.4	664.5	588.5	519.7	450.9	386.8	327.5	263.4	204.1
57.5°	994.3	906.5	818.7	733.3	650.2	569.5	493.6	422.4	353.6	287.1	220.7
55°	1094.0	994.3	897.0	802.1	709.6	619.4	536.3	458.0	382.1	308.5	239.7
52.5°	1193.7	1084.5	975.3	873.3	776.0	674.0	579.0	491.2	408.2	332.2	256.3
50°	1295.7	1172.3	1056.0	942.1	830.6	723.8	621.8	526.8	436.6	353.6	272.9
47.5°	1400.1	1264.9	1134.3	1010.9	892.3	776.0	664.5	560.1	462.8	374.9	289.5
45°	1511.7	1355.0	1215.0	1082.1	951.6	828.2	707.2	593.3	491.2	396.3	306.1
42.5°	1620.8	1452.3	1295.7	1155.7	1010.9	878.0	749.9	628.9	517.3	415.3	320.4
40°	1744.2	1549.6	1371.6	1217.4	1067.9	925.5	790.2	662.1	543.4	434.3	334.6
37.5°	1862.9	1644.6	1457.1	1283.8	1122.5	973.0	830.6	695.3	569.5	453.3	348.8
35°	1983.9	1749.0	1535.4	1345.5	1177.1	1020.4	868.6	726.2	590.9	469.9	363.1
32.5°	2107.3	1848.6	1618.5	1412.0	1231.6	1063.1	904.1	754.6	614.6	488.9	374.9
30°	2226.0	1943.6	1696.8	1476.1	1281.5	1105.9	939.7	783.1	638.4	505.5	386.8
27.5°	2347.0	2043.2	1775.1	1535.4	1328.9	1143.8	970.6	809.2	659.7	522.1	398.7
25°	2463.3	2138.2	1848.6	1592.3	1371.6	1181.8	1003.8	835.3	678.7	536.3	408.2
22.5°	2570.1	2221.2	1915.1	1646.9	1416.7	1215.0	1032.3	859.1	697.7	550.6	417.7
20°	2667.4	2306.6	1983.9	1701.5	1459.5	1248.2	1056.0	880.4	714.3	562.4	427.2
17.5°	2762.3	2385.0	2045.6	1751.3	1495.1	1276.7	1079.8	897.0	728.5	571.9	434.3
15°	2843.0	2453.8	2100.2	1794.1	1528.3	1300.5	1098.7	913.6	740.4	581.4	439.0
12.5°	2914.2	2513.1	2147.7	1829.7	1554.4	1321.8	1117.7	927.9	752.3	588.5	446.1
10°	2971.1	2560.6	2185.6	1860.5	1578.1	1338.4	1129.6	939.7	759.4	595.6	450.9
7.5°	3016.2	2598.5	2216.5	1881.9	1594.7	1352.7	1141.5	946.9	766.5	600.4	458.0
5°	3049.4	2627.0	2237.8	1898.5	1609.0	1369.3	1155.7	958.7	776.0	607.5	458.0
2.5°	3075.5	2648.4	2254.4	1912.7	1618.5	1369.3	1155.7	958.7	776.0	607.5	458.0
0°	3075.5	2648.4	2254.4	1912.7	1618.5	1369.3	1155.7	958.7	776.0	607.5	458.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.9	9.5	4.7	0.0
85°	26.1	16.6	9.5	0.0
82.5°	38.0	26.1	11.9	0.0
80°	49.8	33.2	16.6	0.0
77.5°	64.1	42.7	21.4	0.0
75°	75.9	49.8	26.1	0.0
72.5°	87.8	59.3	28.5	0.0
70°	99.7	66.4	33.2	0.0
67.5°	113.9	73.6	38.0	0.0
65°	125.8	83.1	40.3	0.0
62.5°	137.6	90.2	45.1	0.0
60°	149.5	97.3	47.5	0.0
57.5°	161.4	104.4	52.2	0.0
55°	173.2	113.9	57.0	0.0
52.5°	185.1	121.0	59.3	0.0
50°	197.0	128.1	61.7	0.0
47.5°	206.5	135.3	66.4	0.0
45°	218.3	142.4	68.8	0.0
42.5°	230.2	147.1	71.2	0.0
40°	239.7	154.3	73.6	0.0
37.5°	251.5	159.0	78.3	0.0
35°	261.0	166.1	80.7	0.0
32.5°	268.2	170.9	83.1	0.0
30°	277.7	175.6	85.4	0.0
27.5°	284.8	180.4	85.4	0.0
25°	291.9	185.1	87.8	0.0
22.5°	299.0	187.5	90.2	0.0
20°	306.1	192.2	92.6	0.0
17.5°	310.9	194.6	92.6	0.0
15°	315.6	197.0	97.3	0.0
12.5°	318.0	199.3	97.3	0.0
10°	322.7	204.1	97.3	0.0
7.5°	327.5	204.1	97.3	0.0
5°	327.5	204.1	97.3	0.0
2.5°	327.5	204.1	97.3	0.0
0°	327.5	204.1	97.3	0.0

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