

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: P624535

Luminaire Tested: **IFLD-S-SA6B-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

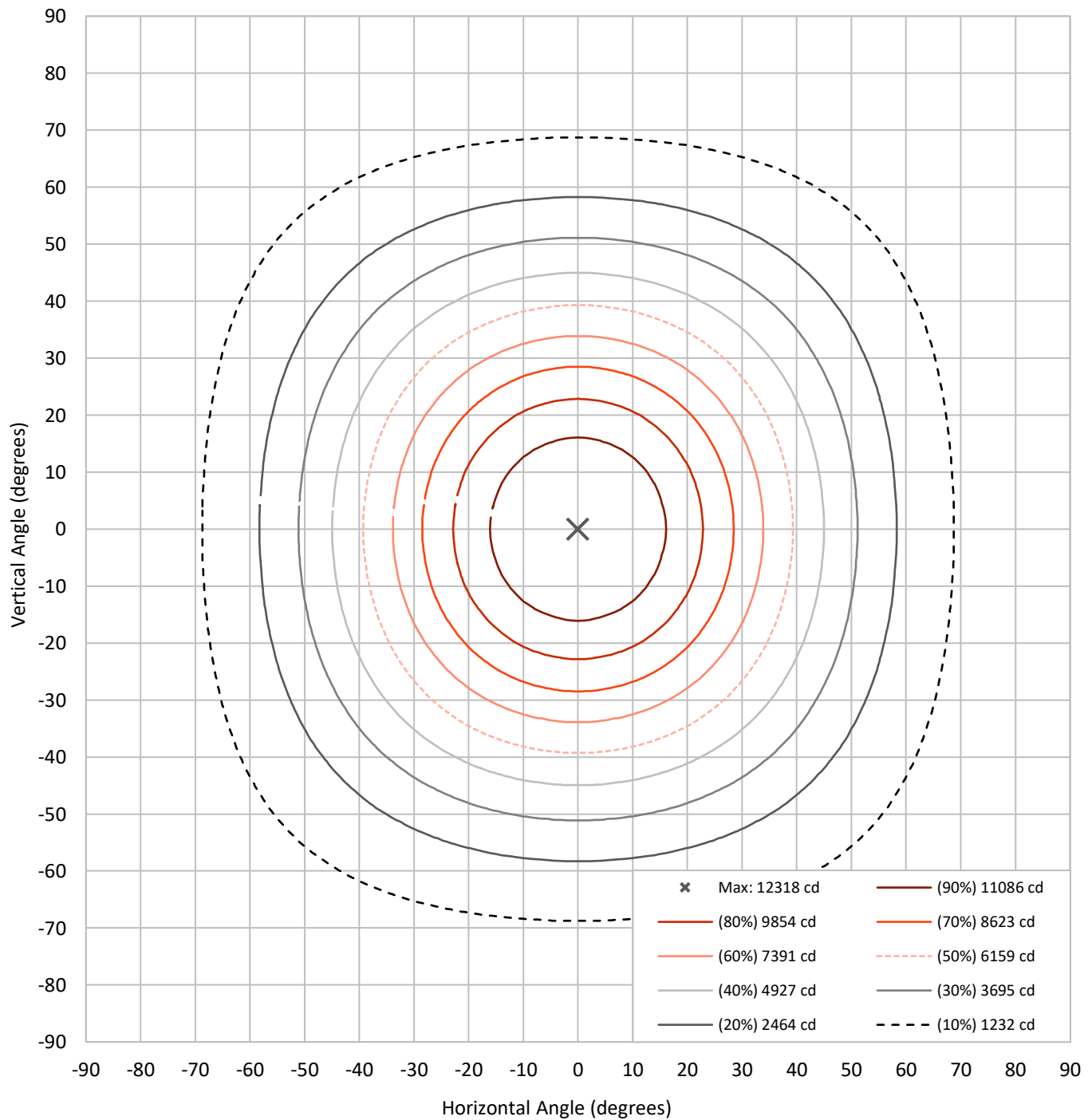
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22178.8 lumens	Max Intensity:	12318 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	9596.6 lumens	Field Lumens:	15714 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	244.9		
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		



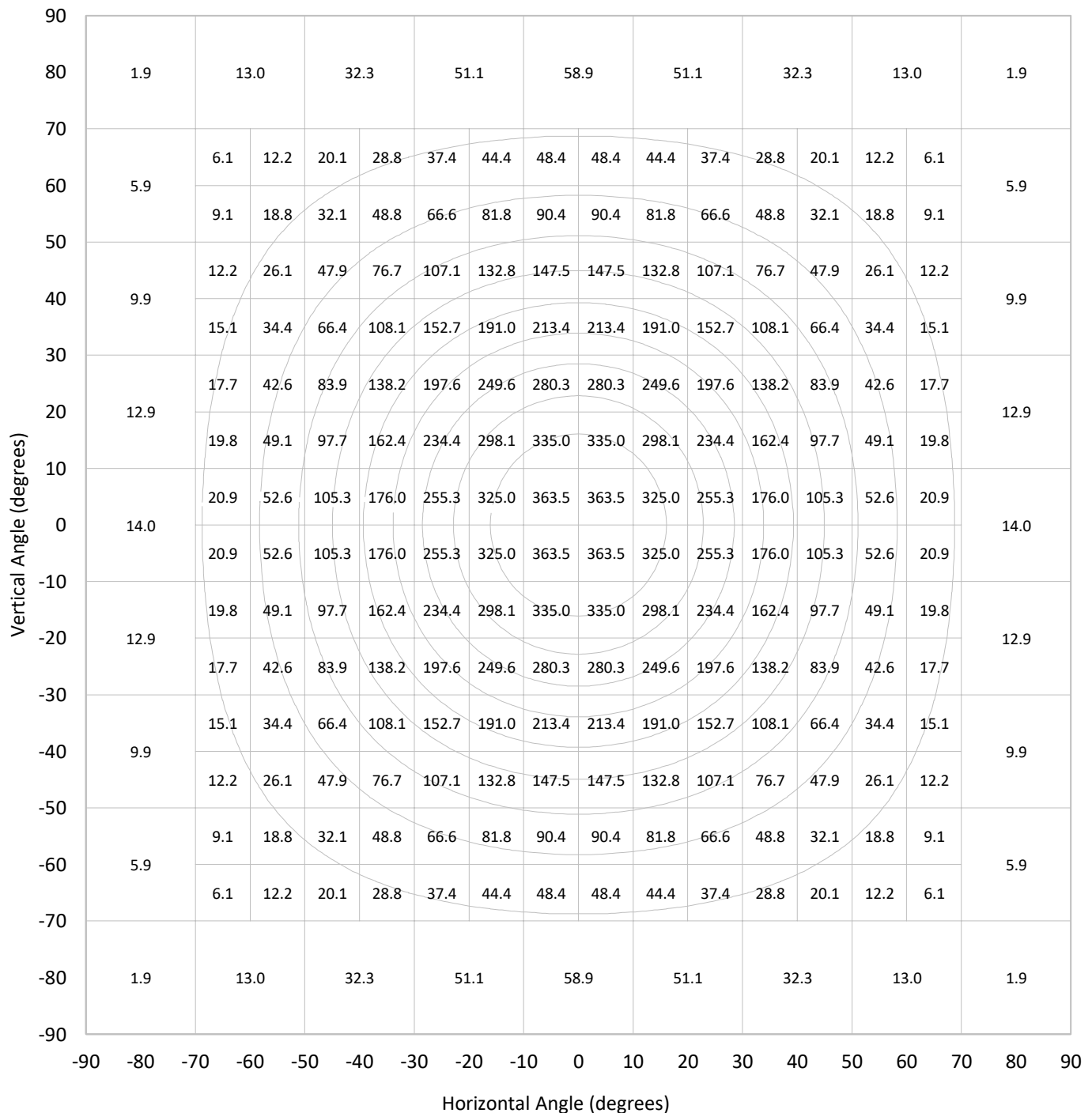
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Iso-Candela Plot



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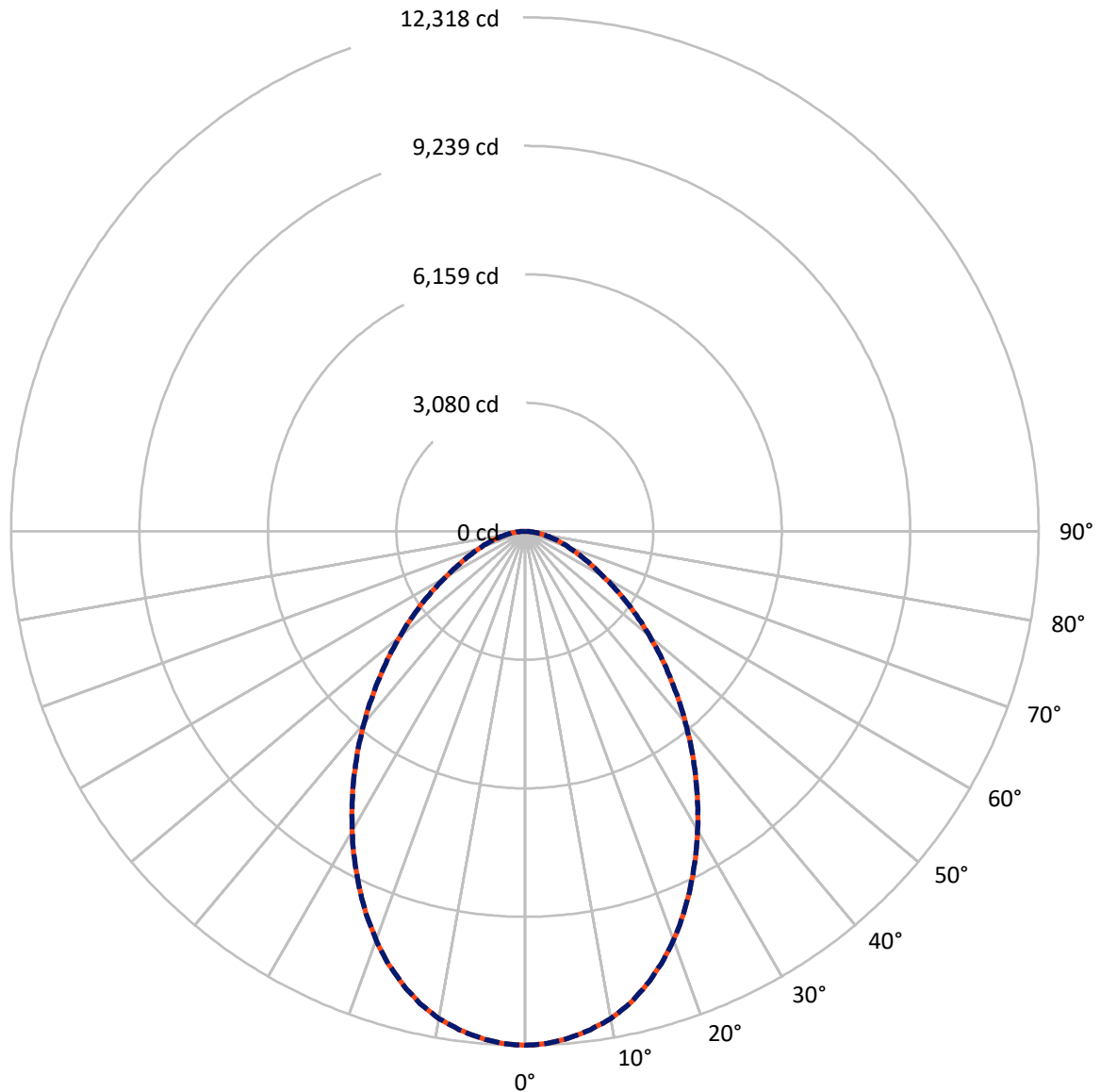
Lumen Table



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Luminous Intensity Polar Plot



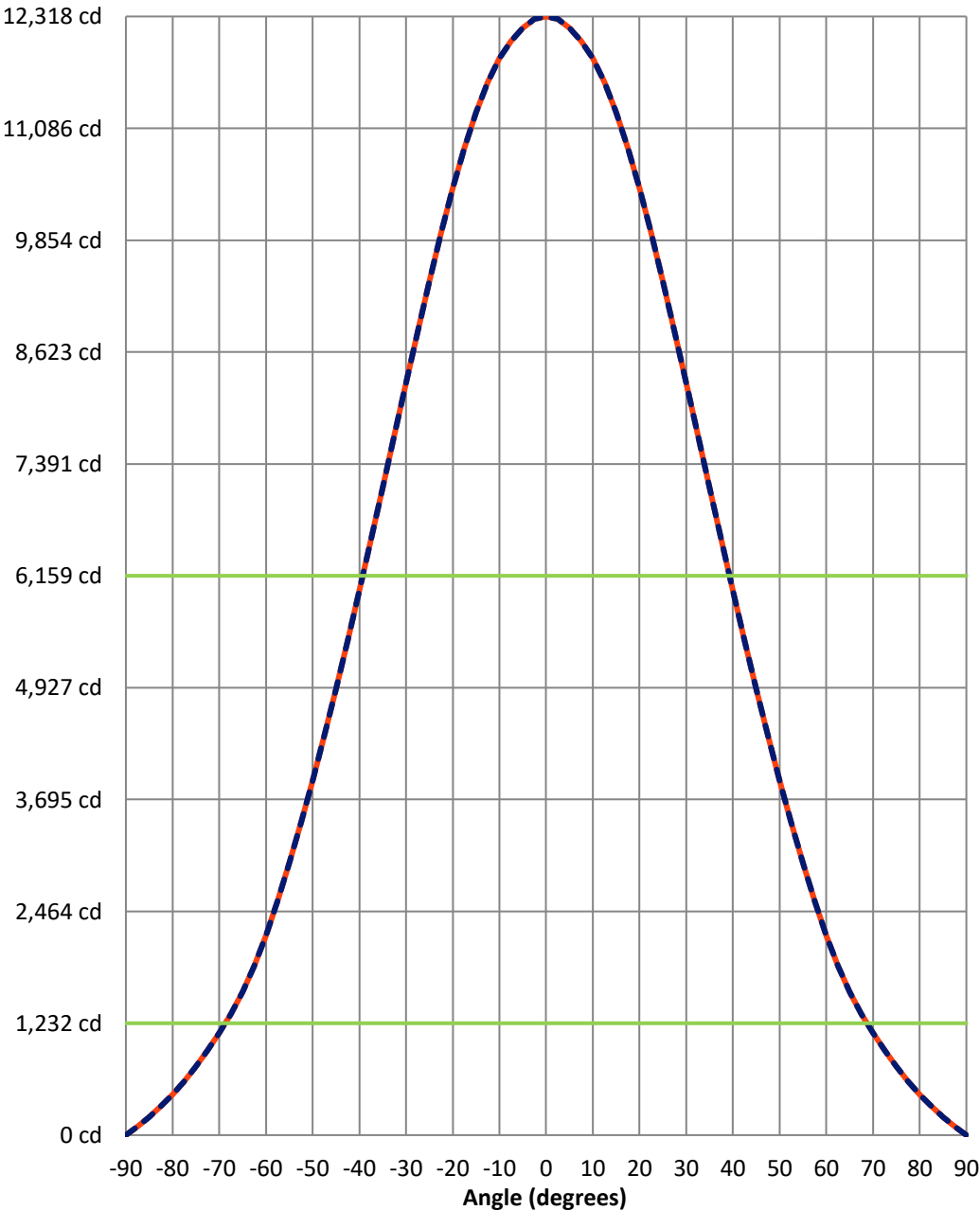
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9596.6
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15714
Efficiency: 70.9%

Spill:
Lumens: 6464.8
Efficiency: 29.1%



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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°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	90.2	90.2	87.9	85.6
85°	198.9	198.9	198.9	198.9	198.9	194.2	191.9	189.6	187.3	182.7	180.4
82.5°	319.1	319.1	319.1	319.1	314.5	309.9	307.5	302.9	298.3	291.4	284.4
80°	446.3	446.3	446.3	446.3	439.4	434.7	427.8	423.2	416.2	407.0	397.7
77.5°	592.0	592.0	592.0	585.0	580.4	573.5	566.5	557.3	548.0	536.5	522.6
75°	756.1	756.1	756.1	746.9	740.0	733.0	721.5	709.9	696.0	679.8	661.3
72.5°	934.2	934.2	934.2	922.6	915.7	904.1	890.3	874.1	857.9	837.1	814.0
70°	1126.1	1126.1	1126.1	1112.3	1100.7	1089.1	1070.6	1052.1	1029.0	1005.9	978.1
67.5°	1334.2	1334.2	1334.2	1318.1	1304.2	1288.0	1267.2	1244.1	1216.3	1183.9	1151.6
65°	1577.0	1577.0	1567.8	1553.9	1537.7	1514.6	1489.2	1456.8	1422.1	1380.5	1336.6
62.5°	1863.8	1863.8	1849.9	1833.7	1812.9	1782.8	1748.2	1706.5	1658.0	1604.8	1551.6
60°	2196.8	2196.8	2180.6	2159.8	2129.7	2092.7	2046.4	1993.3	1933.1	1866.1	1801.3
57.5°	2580.6	2580.6	2559.8	2532.0	2495.0	2448.8	2391.0	2323.9	2247.6	2164.4	2083.4
55°	2996.8	2996.8	2971.4	2939.0	2895.1	2839.6	2770.2	2691.6	2599.1	2504.3	2400.2
52.5°	3438.5	3438.5	3408.4	3371.4	3320.6	3255.8	3177.2	3084.7	2978.3	2867.3	2744.8
50°	3903.3	3903.3	3868.6	3827.0	3769.2	3692.9	3602.7	3496.3	3378.4	3248.9	3107.8
47.5°	4400.4	4400.4	4361.1	4312.6	4243.2	4155.3	4049.0	3926.4	3792.3	3646.6	3487.1
45°	4911.5	4911.5	4867.5	4812.0	4735.7	4636.3	4518.4	4400.4	4229.3	4060.5	3875.5
42.5°	5443.3	5443.3	5392.5	5330.0	5242.1	5133.5	4999.3	4846.7	4677.9	4488.3	4287.1
40°	5996.0	5996.0	5938.2	5866.5	5769.4	5644.5	5494.2	5323.1	5133.5	4923.0	4701.1
37.5°	6560.2	6560.2	6495.5	6416.8	6308.2	6169.4	6000.6	5811.0	5598.3	5364.7	5119.6
35°	7129.0	7129.0	7057.4	6971.8	6851.6	6698.9	6516.3	6305.8	6070.0	5815.6	5540.4
32.5°	7709.4	7709.4	7630.8	7533.7	7397.3	7228.5	7027.3	6798.4	6560.2	6264.2	5963.6
30°	8282.9	8282.9	8197.4	8091.0	7945.3	7760.3	7540.6	7288.6	7008.8	6705.9	6382.1
27.5°	8847.1	8824.0	8752.3	8639.0	8479.5	8282.9	8044.7	7771.9	7469.0	7136.0	6789.1
25°	9402.1	9376.7	9298.0	9173.2	9002.1	8787.0	8530.3	8239.0	7912.9	7561.5	7182.2
22.5°	9934.0	9906.2	9823.0	9688.8	9506.2	9272.6	8997.4	8685.3	8338.4	7961.5	7561.5
20°	10426.5	10396.4	10310.9	10169.8	9980.2	9732.8	9441.4	9106.1	8736.1	8338.4	7912.9
17.5°	10870.5	10840.4	10750.2	10604.5	10426.5	10151.3	9850.7	9496.9	9106.1	8685.3	8239.0
15°	11261.3	11228.9	11136.4	10990.7	10787.2	10528.2	10211.4	9850.7	9441.4	8997.4	8530.3
12.5°	11594.2	11561.9	11467.1	11321.4	11110.9	10852.0	10528.2	10151.3	9732.8	9272.6	8787.0
10°	11857.8	11825.5	11735.3	11596.5	11379.2	11110.9	10787.2	10426.5	9980.2	9506.2	9002.1
7.5°	12047.5	12017.4	11934.2	11795.4	11596.5	11321.4	10990.7	10604.5	10169.8	9688.8	9173.2
5°	12190.8	12156.1	12072.9	11934.2	11735.3	11467.1	11136.4	10750.2	10310.9	9823.0	9298.0
2.5°	12290.3	12248.6	12156.1	12017.4	11825.5	11561.9	11228.9	10840.4	10396.4	9906.2	9376.7
0°	12318.0	12290.3	12190.8	12047.5	11857.8	11594.2	11261.3	10870.5	10426.5	9934.0	9402.1

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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°	83.2	83.2	80.9	78.6	76.3	71.7	69.4	67.1	64.7	60.1	57.8
85°	175.7	171.1	166.5	161.9	154.9	150.3	143.4	138.7	131.8	124.9	117.9
82.5°	277.5	270.5	261.3	254.4	245.1	233.5	224.3	212.7	201.2	191.9	180.4
80°	388.5	376.9	365.4	353.8	339.9	326.0	312.2	298.3	282.1	265.9	249.7
77.5°	508.7	492.5	476.3	457.8	441.7	423.2	404.7	386.2	365.4	344.5	323.7
75°	642.8	622.0	598.9	575.8	555.0	529.5	504.1	478.7	450.9	425.5	397.7
72.5°	788.5	763.1	735.3	707.6	677.5	645.2	612.8	578.1	545.7	513.3	478.7
70°	945.8	915.7	881.0	846.3	809.3	770.0	730.7	689.1	647.5	605.8	564.2
67.5°	1114.6	1077.6	1035.9	994.3	948.1	901.8	855.6	807.0	756.1	705.3	656.7
65°	1294.9	1248.7	1200.1	1146.9	1093.8	1040.6	985.1	927.3	869.5	809.3	756.1
62.5°	1496.1	1438.3	1375.9	1311.1	1251.0	1186.2	1126.1	1054.4	985.1	918.0	851.0
60°	1729.7	1653.3	1577.0	1496.1	1419.8	1336.6	1262.6	1183.9	1105.3	1029.0	950.4
57.5°	1991.0	1893.8	1801.3	1704.2	1602.5	1510.0	1415.2	1320.4	1232.5	1142.3	1056.8
55°	2286.9	2169.0	2053.4	1933.1	1815.2	1699.6	1579.4	1473.0	1364.3	1262.6	1163.1
52.5°	2610.7	2476.6	2333.2	2196.8	2046.4	1903.1	1769.0	1634.8	1507.7	1385.1	1271.8
50°	2957.5	2800.3	2636.1	2469.6	2298.5	2129.7	1967.8	1810.6	1662.6	1519.2	1385.1
47.5°	3318.3	3140.2	2952.9	2763.3	2580.6	2374.8	2180.6	2002.5	1824.5	1662.6	1507.7
45°	3688.2	3487.1	3281.3	3066.2	2851.2	2629.2	2414.1	2196.8	2002.5	1810.6	1634.8
42.5°	4069.8	3843.2	3614.2	3376.1	3137.9	2895.1	2652.3	2414.1	2180.6	1967.8	1769.0
40°	4462.9	4213.1	3951.8	3692.9	3438.5	3161.0	2895.1	2629.2	2374.8	2129.7	1903.1
37.5°	4856.0	4583.1	4301.0	4009.7	3718.3	3438.5	3137.9	2851.2	2580.6	2298.5	2046.4
35°	5251.4	4950.8	4645.6	4328.8	4009.7	3692.9	3376.1	3066.2	2763.3	2469.6	2196.8
32.5°	5649.1	5320.8	4983.2	4645.6	4301.0	3951.8	3614.2	3281.3	2952.9	2636.1	2333.2
30°	6039.9	5683.8	5320.8	4950.8	4583.1	4213.1	3843.2	3487.1	3140.2	2800.3	2476.6
27.5°	6421.5	6039.9	5649.1	5251.4	4856.0	4462.9	4069.8	3688.2	3318.3	2957.5	2610.7
25°	6789.1	6382.1	5963.6	5540.4	5119.6	4701.1	4287.1	3875.5	3487.1	3107.8	2744.8
22.5°	7136.0	6705.9	6264.2	5815.6	5364.7	4923.0	4488.3	4060.5	3646.6	3248.9	2867.3
20°	7469.0	7008.8	6560.2	6070.0	5598.3	5133.5	4677.9	4229.3	3792.3	3378.4	2978.3
17.5°	7771.9	7288.6	6798.4	6305.8	5811.0	5323.1	4846.7	4400.4	3926.4	3496.3	3084.7
15°	8044.7	7540.6	7027.3	6516.3	6000.6	5494.2	4999.3	4518.4	4049.0	3602.7	3177.2
12.5°	8282.9	7760.3	7228.5	6698.9	6169.4	5644.5	5133.5	4636.3	4155.3	3692.9	3255.8
10°	8479.5	7945.3	7397.3	6851.6	6308.2	5769.4	5242.1	4735.7	4243.2	3769.2	3320.6
7.5°	8639.0	8091.0	7533.7	6971.8	6416.8	5866.5	5330.0	4812.0	4312.6	3827.0	3371.4
5°	8752.3	8197.4	7630.8	7057.4	6495.5	5938.2	5392.5	4867.5	4361.1	3868.6	3408.4
2.5°	8824.0	8282.9	7709.4	7129.0	6560.2	5996.0	5443.3	4911.5	4400.4	3903.3	3438.5
0°	8847.1	8282.9	7709.4	7129.0	6560.2	5996.0	5443.3	4911.5	4400.4	3903.3	3438.5

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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°	55.5	50.9	46.2	43.9	39.3	37.0	32.4	27.7	25.4	20.8	16.2
85°	111.0	101.7	94.8	87.9	80.9	71.7	64.7	57.8	48.6	41.6	32.4
82.5°	168.8	157.2	145.7	134.1	122.6	111.0	97.1	85.6	74.0	62.4	48.6
80°	233.5	215.1	198.9	182.7	166.5	150.3	131.8	115.6	97.1	80.9	64.7
77.5°	300.6	279.8	256.7	233.5	210.4	189.6	166.5	145.7	124.9	101.7	80.9
75°	372.3	344.5	319.1	289.0	261.3	231.2	203.5	175.7	150.3	124.9	97.1
72.5°	446.3	411.6	376.9	344.5	309.9	275.2	242.8	208.1	175.7	145.7	115.6
70°	522.6	481.0	439.4	400.0	360.7	319.1	282.1	242.8	203.5	166.5	131.8
67.5°	603.5	555.0	506.4	455.5	411.6	365.4	319.1	275.2	231.2	189.6	150.3
65°	691.4	633.6	573.5	520.3	462.5	411.6	360.7	309.9	261.3	210.4	166.5
62.5°	781.6	714.5	647.5	580.4	520.3	455.5	400.0	344.5	289.0	233.5	182.7
60°	874.1	797.8	721.5	647.5	573.5	506.4	439.4	376.9	319.1	256.7	198.9
57.5°	968.9	883.3	797.8	714.5	633.6	555.0	481.0	411.6	344.5	279.8	215.1
55°	1066.0	968.9	874.1	781.6	691.4	603.5	522.6	446.3	372.3	300.6	233.5
52.5°	1163.1	1056.8	950.4	851.0	756.1	656.7	564.2	478.7	397.7	323.7	249.7
50°	1262.6	1142.3	1029.0	918.0	809.3	705.3	605.8	513.3	425.5	344.5	265.9
47.5°	1364.3	1232.5	1105.3	985.1	869.5	756.1	647.5	545.7	450.9	365.4	282.1
45°	1473.0	1320.4	1183.9	1054.4	927.3	807.0	689.1	578.1	478.7	386.2	298.3
42.5°	1579.4	1415.2	1262.6	1126.1	985.1	855.6	730.7	612.8	504.1	404.7	312.2
40°	1699.6	1510.0	1336.6	1186.2	1040.6	901.8	770.0	645.2	529.5	423.2	326.0
37.5°	1815.2	1602.5	1419.8	1251.0	1093.8	948.1	809.3	677.5	555.0	441.7	339.9
35°	1933.1	1704.2	1496.1	1311.1	1146.9	994.3	846.3	707.6	575.8	457.8	353.8
32.5°	2053.4	1801.3	1577.0	1375.9	1200.1	1035.9	881.0	735.3	598.9	476.3	365.4
30°	2169.0	1893.8	1653.3	1438.3	1248.7	1077.6	915.7	763.1	622.0	492.5	376.9
27.5°	2286.9	1991.0	1729.7	1496.1	1294.9	1114.6	945.8	788.5	642.8	508.7	388.5
25°	2400.2	2083.4	1801.3	1551.6	1336.6	1151.6	978.1	814.0	661.3	522.6	397.7
22.5°	2504.3	2164.4	1866.1	1604.8	1380.5	1183.9	1005.9	837.1	679.8	536.5	407.0
20°	2599.1	2247.6	1933.1	1658.0	1422.1	1216.3	1029.0	857.9	696.0	548.0	416.2
17.5°	2691.6	2323.9	1993.3	1706.5	1456.8	1244.1	1052.1	874.1	709.9	557.3	423.2
15°	2770.2	2391.0	2046.4	1748.2	1489.2	1267.2	1070.6	890.3	721.5	566.5	427.8
12.5°	2839.6	2448.8	2092.7	1782.8	1514.6	1288.0	1089.1	904.1	733.0	573.5	434.7
10°	2895.1	2495.0	2129.7	1812.9	1537.7	1304.2	1100.7	915.7	740.0	580.4	439.4
7.5°	2939.0	2532.0	2159.8	1833.7	1553.9	1318.1	1112.3	922.6	746.9	585.0	446.3
5°	2971.4	2559.8	2180.6	1849.9	1567.8	1334.2	1126.1	934.2	756.1	592.0	446.3
2.5°	2996.8	2580.6	2196.8	1863.8	1577.0	1334.2	1126.1	934.2	756.1	592.0	446.3
0°	2996.8	2580.6	2196.8	1863.8	1577.0	1334.2	1126.1	934.2	756.1	592.0	446.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.6	9.2	4.6	0.0
85°	25.4	16.2	9.2	0.0
82.5°	37.0	25.4	11.6	0.0
80°	48.6	32.4	16.2	0.0
77.5°	62.4	41.6	20.8	0.0
75°	74.0	48.6	25.4	0.0
72.5°	85.6	57.8	27.7	0.0
70°	97.1	64.7	32.4	0.0
67.5°	111.0	71.7	37.0	0.0
65°	122.6	80.9	39.3	0.0
62.5°	134.1	87.9	43.9	0.0
60°	145.7	94.8	46.2	0.0
57.5°	157.2	101.7	50.9	0.0
55°	168.8	111.0	55.5	0.0
52.5°	180.4	117.9	57.8	0.0
50°	191.9	124.9	60.1	0.0
47.5°	201.2	131.8	64.7	0.0
45°	212.7	138.7	67.1	0.0
42.5°	224.3	143.4	69.4	0.0
40°	233.5	150.3	71.7	0.0
37.5°	245.1	154.9	76.3	0.0
35°	254.4	161.9	78.6	0.0
32.5°	261.3	166.5	80.9	0.0
30°	270.5	171.1	83.2	0.0
27.5°	277.5	175.7	83.2	0.0
25°	284.4	180.4	85.6	0.0
22.5°	291.4	182.7	87.9	0.0
20°	298.3	187.3	90.2	0.0
17.5°	302.9	189.6	90.2	0.0
15°	307.5	191.9	94.8	0.0
12.5°	309.9	194.2	94.8	0.0
10°	314.5	198.9	94.8	0.0
7.5°	319.1	198.9	94.8	0.0
5°	319.1	198.9	94.8	0.0
2.5°	319.1	198.9	94.8	0.0
0°	319.1	198.9	94.8	0.0

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