

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: P628490

Luminaire Tested: **IFLD-L-SA7B-935-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628490  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-935-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24336.2 lumens	Max Intensity:	7932.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

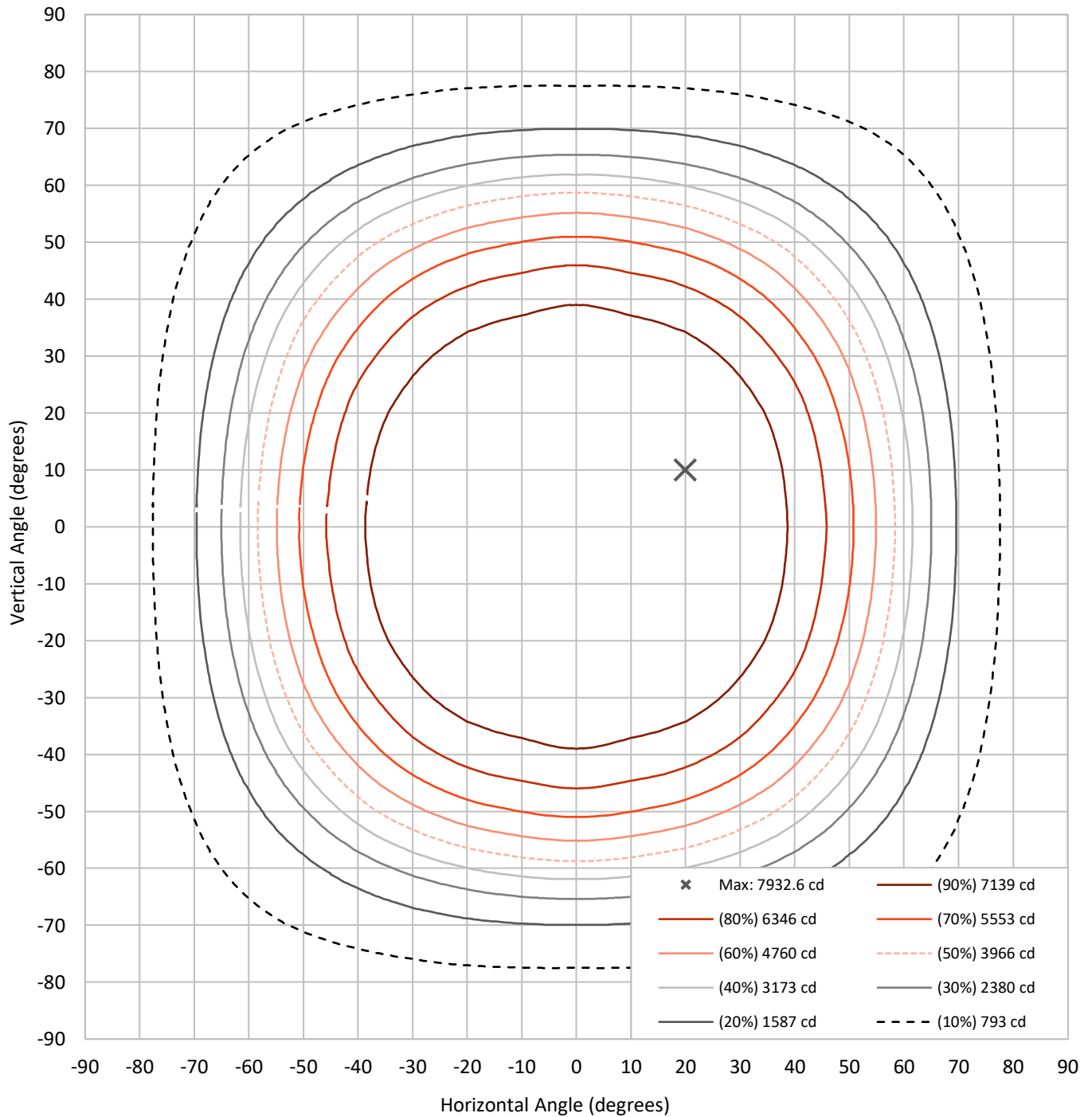
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14933.2 lumens	Field Lumens:	17902.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281  
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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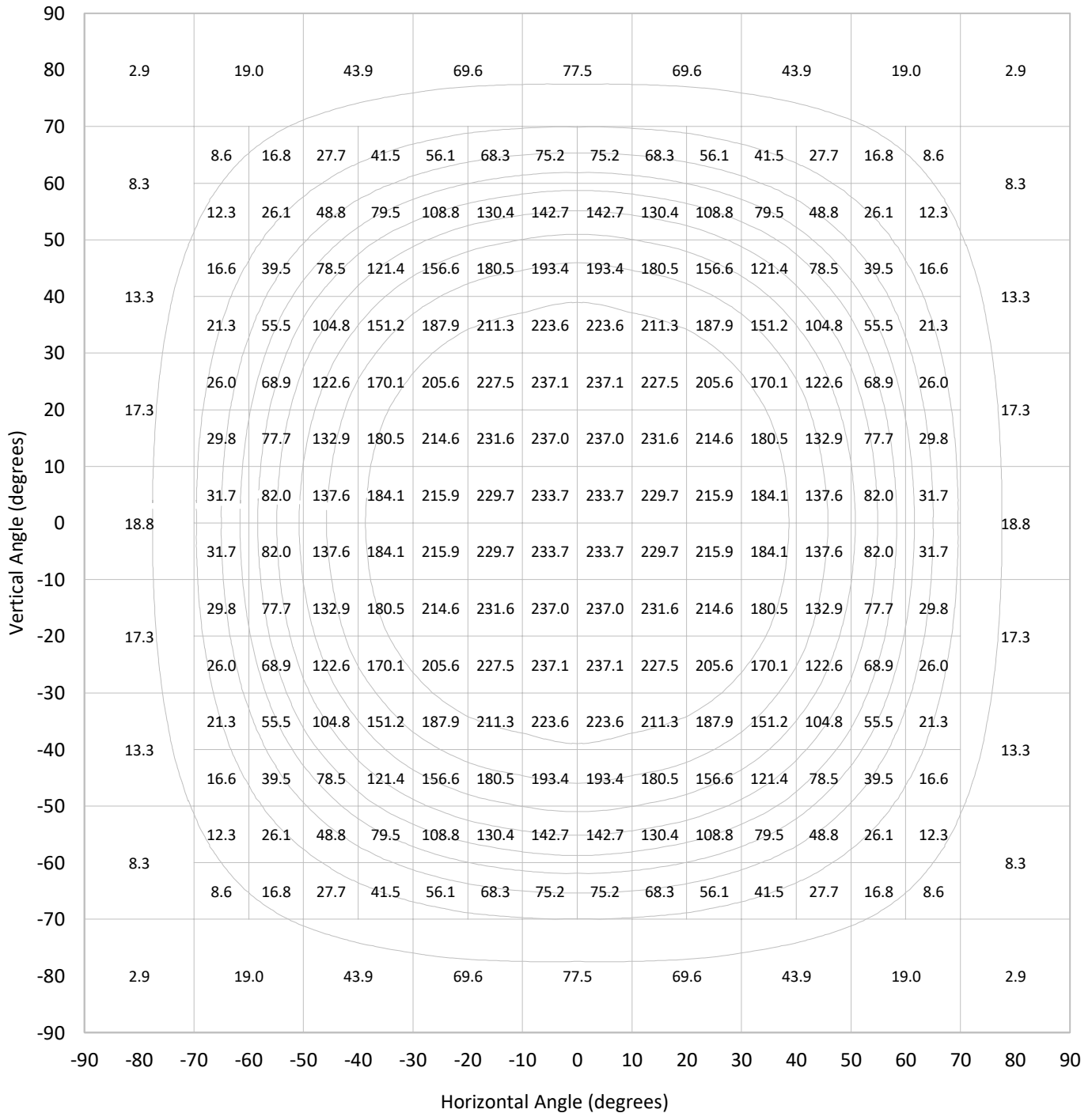
### Iso-Candela Plot





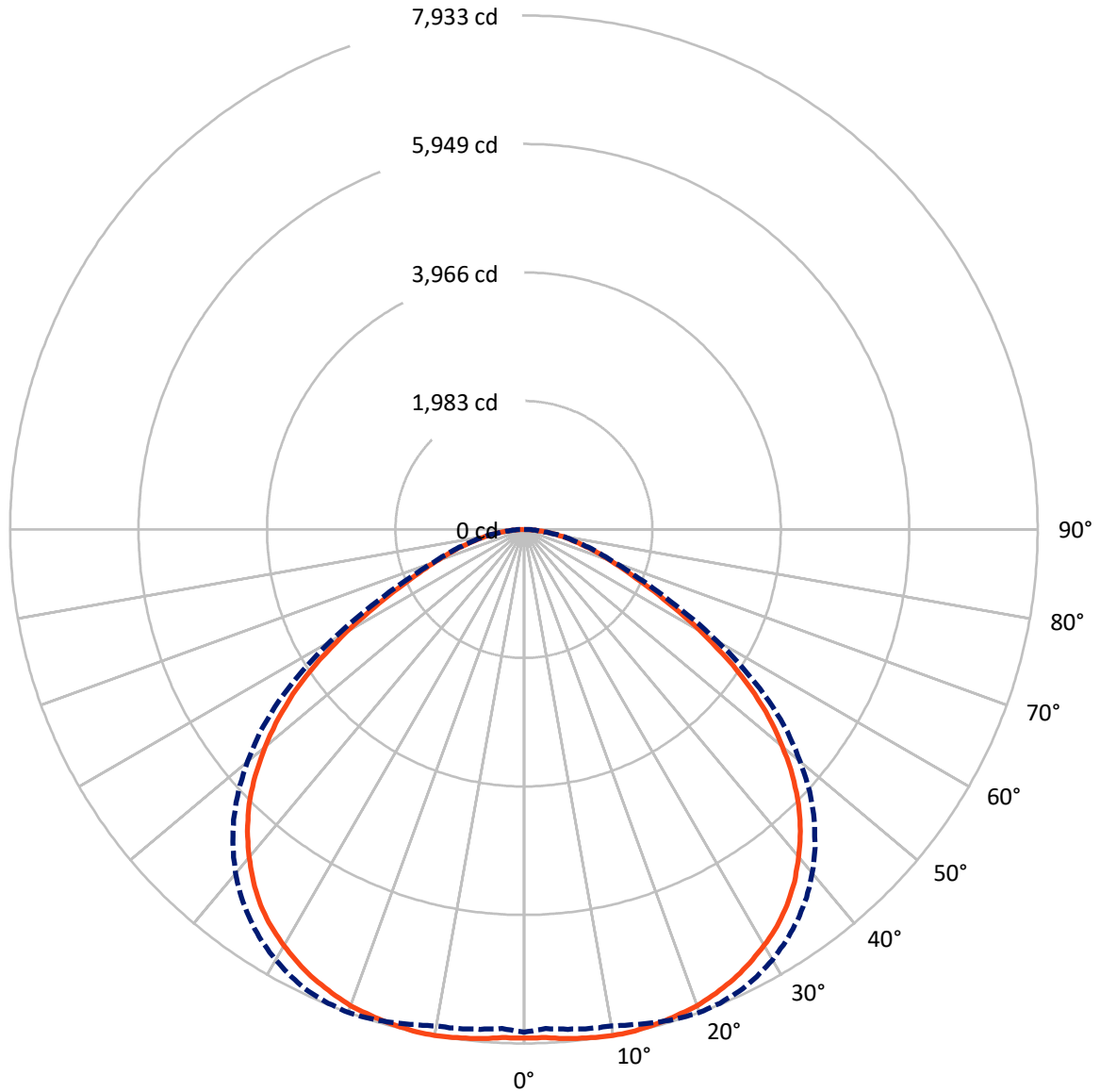
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### Lumen Table



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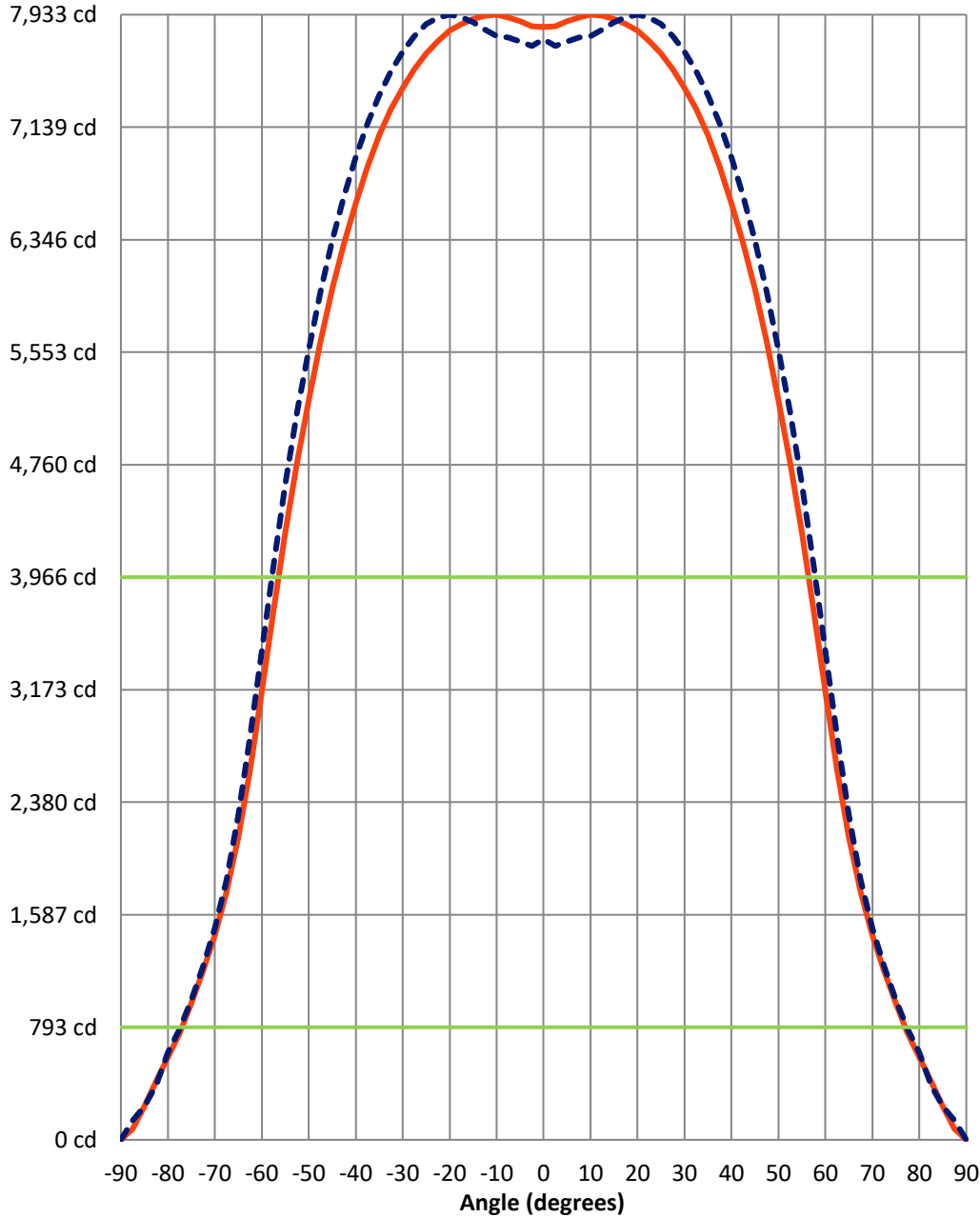
### Luminous Intensity Polar Plot



— 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: 14933.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 17902.4  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6433.8  
 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°	64.0	69.1	71.7	74.3	76.8	79.4	81.9	79.4	76.8	76.8	74.3
85°	171.6	176.7	179.2	197.2	215.1	225.3	238.1	235.6	235.6	233.0	230.5
82.5°	343.1	358.5	371.3	389.2	399.4	414.8	425.1	417.4	412.3	402.0	394.3
80°	609.4	614.5	617.1	619.7	606.9	604.3	599.2	591.5	581.2	568.4	555.6
77.5°	775.9	781.0	786.1	781.0	778.4	775.9	768.2	760.5	750.2	740.0	724.6
75°	1026.8	1026.8	1026.8	1019.1	1014.0	1006.3	993.5	980.7	962.8	942.3	919.2
72.5°	1293.1	1290.5	1288.0	1272.6	1259.8	1244.4	1226.5	1211.1	1190.7	1167.6	1136.9
70°	1572.2	1577.3	1579.9	1559.4	1544.0	1523.5	1500.5	1472.3	1441.6	1408.3	1364.8
67.5°	1956.3	1951.1	1946.0	1917.9	1897.4	1869.2	1835.9	1795.0	1748.9	1697.7	1636.2
65°	2432.5	2440.2	2424.9	2396.7	2358.3	2312.2	2261.0	2202.1	2132.9	2056.1	1969.1
62.5°	3008.7	3021.5	3003.5	2967.7	2919.0	2857.6	2785.9	2701.4	2606.7	2499.1	2391.6
60°	3664.2	3661.6	3628.3	3579.7	3515.7	3438.8	3359.5	3267.3	3159.7	3034.3	2903.7
57.5°	4265.9	4260.8	4219.8	4171.2	4107.1	4025.2	3940.7	3843.4	3730.7	3597.6	3446.5
55°	4806.2	4801.1	4760.1	4708.9	4642.3	4560.4	4483.5	4391.4	4281.3	4140.4	3979.1
52.5°	5285.0	5287.6	5251.7	5195.4	5123.7	5044.3	4970.1	4877.9	4772.9	4632.1	4475.9
50°	5725.4	5722.9	5684.5	5633.2	5566.7	5489.8	5415.6	5323.4	5213.3	5077.6	4926.5
47.5°	6135.1	6130.0	6086.5	6030.1	5961.0	5894.4	5825.3	5743.3	5628.1	5492.4	5341.3
45°	6478.2	6468.0	6424.5	6370.7	6304.1	6245.2	6183.8	6122.3	5999.4	5873.9	5730.5
42.5°	6772.7	6770.1	6726.6	6672.8	6606.3	6550.0	6498.7	6421.9	6319.5	6204.2	6063.4
40°	7054.4	7033.9	6990.3	6939.1	6877.7	6834.1	6777.8	6701.0	6601.1	6488.5	6352.8
37.5°	7264.3	7266.9	7220.8	7164.5	7110.7	7069.7	7018.5	6946.8	6859.7	6749.6	6613.9
35°	7464.0	7451.2	7412.8	7364.2	7315.5	7269.4	7215.7	7154.2	7082.5	6980.1	6852.1
32.5°	7594.6	7612.6	7566.5	7515.3	7487.1	7451.2	7394.9	7330.9	7266.9	7164.5	7049.2
30°	7738.0	7722.7	7686.8	7643.3	7622.8	7599.8	7551.1	7489.6	7415.4	7323.2	7215.7
27.5°	7837.9	7830.2	7786.7	7745.7	7735.5	7715.0	7676.6	7622.8	7548.5	7458.9	7359.1
25°	7881.4	7886.5	7845.6	7822.5	7822.5	7809.7	7779.0	7732.9	7658.6	7576.7	7479.4
22.5°	7901.9	7896.8	7868.6	7863.5	7876.3	7866.1	7853.2	7812.3	7745.7	7679.1	7597.2
20°	7914.7	7878.9	7853.2	7873.7	7889.1	7886.5	7876.3	7850.7	7820.0	7763.6	7691.9
17.5°	7886.5	7863.5	7832.8	7863.5	7896.8	7899.3	7889.1	7873.7	7866.1	7830.2	7766.2
15°	7817.4	7799.5	7804.6	7835.3	7873.7	7886.5	7894.2	7912.1	7901.9	7873.7	7817.4
12.5°	7771.3	7748.3	7771.3	7802.0	7822.5	7830.2	7891.7	7924.9	7924.9	7899.3	7863.5
10°	7758.5	7712.4	7743.1	7771.3	7781.6	7827.6	7878.9	7914.7	7932.6	7912.1	7866.1
7.5°	7732.9	7702.2	7715.0	7727.8	7786.7	7820.0	7848.1	7886.5	7912.1	7909.6	7868.6
5°	7720.1	7681.7	7686.8	7740.6	7781.6	7804.6	7814.8	7848.1	7886.5	7894.2	7863.5
2.5°	7686.8	7668.9	7707.3	7712.4	7743.1	7761.1	7771.3	7802.0	7850.7	7868.6	7855.8
0°	7668.9	7643.3	7617.7	7638.2	7689.4	7727.8	7743.1	7789.2	7845.6	7863.5	7835.3



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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°	71.7	69.1	66.6	64.0	66.6	66.6	66.6	64.0	66.6	64.0	64.0
85°	222.8	212.5	204.8	194.6	184.4	176.7	166.4	156.2	153.6	151.1	146.0
82.5°	384.1	371.3	358.5	343.1	327.8	309.8	291.9	271.4	266.3	261.2	253.5
80°	540.3	522.4	504.4	486.5	471.1	453.2	432.7	409.7	394.3	381.5	366.2
77.5°	704.2	678.5	652.9	622.2	604.3	586.4	565.9	542.8	519.8	499.3	476.3
75°	891.1	862.9	837.3	806.6	773.3	740.0	706.7	676.0	642.7	612.0	581.2
72.5°	1098.5	1057.5	1016.5	978.1	937.2	896.2	852.7	811.7	770.7	729.8	686.2
70°	1316.1	1264.9	1213.7	1162.5	1108.7	1055.0	1003.7	952.5	901.3	847.5	798.9
67.5°	1572.2	1513.3	1446.7	1375.0	1295.6	1226.5	1159.9	1098.5	1037.0	975.6	914.1
65°	1892.3	1810.3	1720.7	1623.4	1531.2	1439.0	1341.7	1249.6	1177.9	1106.2	1037.0
62.5°	2286.6	2171.4	2045.9	1920.4	1807.8	1687.4	1574.7	1454.4	1341.7	1239.3	1154.8
60°	2757.7	2601.5	2447.9	2286.6	2130.4	1966.5	1823.1	1674.6	1533.8	1408.3	1285.4
57.5°	3277.5	3095.7	2911.4	2714.2	2501.7	2309.6	2115.0	1920.4	1754.0	1587.5	1449.3
55°	3805.0	3613.0	3405.5	3182.8	2949.8	2704.0	2440.2	2222.6	1994.7	1800.1	1620.8
52.5°	4306.9	4107.1	3892.1	3687.2	3408.1	3126.4	2837.1	2550.3	2284.0	2035.6	1818.0
50°	4755.0	4560.4	4353.0	4114.8	3856.2	3556.6	3234.0	2911.4	2596.4	2304.5	2033.1
47.5°	5164.7	4975.2	4767.8	4529.6	4294.1	3961.2	3636.0	3280.1	2929.3	2593.9	2276.3
45°	5548.7	5356.7	5141.6	4913.7	4642.3	4345.3	4009.8	3651.4	3275.0	2898.6	2532.4
42.5°	5897.0	5704.9	5487.3	5251.7	4982.9	4688.4	4363.2	4002.2	3623.2	3213.5	2811.5
40°	6201.7	6014.8	5804.8	5559.0	5308.0	4998.2	4678.1	4335.0	3943.3	3531.0	3088.0
37.5°	6468.0	6293.9	6086.5	5843.2	5576.9	5300.4	4970.1	4626.9	4273.6	3825.5	3372.3
35°	6703.6	6542.2	6329.7	6099.3	5838.1	5546.2	5236.4	4900.9	4519.4	4099.5	3659.0
32.5°	6908.4	6744.5	6549.9	6319.5	6066.0	5792.0	5474.5	5136.5	4775.5	4347.8	3869.0
30°	7082.5	6923.8	6739.4	6521.8	6278.5	6007.1	5697.3	5356.7	4988.0	4562.9	4089.2
27.5°	7233.6	7082.5	6903.3	6701.0	6468.0	6206.8	5894.4	5551.3	5174.9	4765.2	4291.5
25°	7364.2	7218.2	7051.8	6859.7	6629.3	6373.2	6078.8	5720.3	5343.9	4931.6	4463.1
22.5°	7482.0	7341.1	7174.7	6987.8	6777.8	6521.8	6224.7	5868.8	5487.3	5080.2	4619.3
20°	7586.9	7456.4	7292.5	7100.4	6890.5	6631.9	6337.4	5999.4	5615.3	5215.9	4760.1
17.5°	7671.4	7556.2	7392.3	7190.1	6980.1	6729.2	6442.4	6132.5	5725.4	5331.1	4877.9
15°	7730.3	7617.7	7469.2	7264.3	7059.5	6811.1	6524.3	6204.2	5825.3	5423.3	4975.2
12.5°	7771.3	7651.0	7512.7	7323.2	7118.4	6872.6	6593.5	6278.5	5909.8	5505.2	5059.7
10°	7781.6	7671.4	7533.2	7364.2	7164.5	6926.3	6652.3	6340.0	5978.9	5569.2	5128.8
7.5°	7786.7	7681.7	7556.2	7394.9	7197.7	6967.3	6695.9	6388.6	6030.1	5623.0	5180.0
5°	7784.1	7684.3	7571.6	7415.4	7218.2	6990.3	6724.0	6421.9	6066.0	5658.8	5218.4
2.5°	7776.4	7686.8	7581.8	7430.8	7241.3	7015.9	6752.2	6460.3	6104.4	5689.6	5249.2
0°	7796.9	7720.1	7586.9	7425.6	7246.4	7015.9	6749.6	6465.4	6109.5	5687.0	5246.6





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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°	64.0	61.5	61.5	58.9	56.3	53.8	48.7	46.1	41.0	33.3	25.6
85°	138.3	130.6	122.9	117.8	112.7	107.5	99.9	92.2	81.9	66.6	51.2
82.5°	243.3	227.9	212.5	194.6	179.2	163.9	151.1	138.3	122.9	99.9	76.8
80°	348.2	325.2	302.1	276.5	253.5	227.9	204.8	184.4	163.9	133.1	102.4
77.5°	453.2	422.5	389.2	358.5	325.2	291.9	258.6	230.5	199.7	163.9	128.0
75°	550.5	514.7	483.9	440.4	399.4	355.9	312.4	274.0	235.6	192.0	153.6
72.5°	647.8	601.7	558.2	517.2	471.1	417.4	368.7	320.1	271.4	220.2	174.1
70°	745.1	688.8	635.0	586.4	535.2	481.4	422.5	366.2	307.3	245.8	192.0
67.5°	845.0	781.0	719.5	658.1	599.2	537.7	476.3	412.3	343.1	271.4	212.5
65°	955.1	875.7	801.5	732.3	663.2	596.6	527.5	458.3	381.5	299.6	230.5
62.5°	1065.2	978.1	891.1	804.0	727.2	652.9	578.7	501.9	417.4	330.3	248.4
60°	1183.0	1083.1	983.3	886.0	791.2	709.3	627.3	545.4	455.8	358.5	266.3
57.5°	1313.6	1193.2	1080.6	970.5	862.9	765.6	676.0	588.9	489.1	386.6	286.8
55°	1462.1	1313.6	1180.4	1057.5	939.7	821.9	724.6	635.0	527.5	414.8	309.8
52.5°	1618.3	1446.7	1285.4	1147.1	1021.7	888.5	770.7	670.9	565.9	443.0	330.3
50°	1800.1	1582.4	1403.2	1234.2	1093.4	955.1	819.4	711.8	604.3	476.3	350.8
47.5°	1987.0	1746.3	1521.0	1336.6	1170.2	1019.1	875.7	747.7	640.1	507.0	371.3
45°	2204.6	1902.5	1654.1	1436.5	1244.4	1085.7	932.0	786.1	670.9	537.7	391.8
42.5°	2414.6	2086.9	1792.4	1546.6	1328.9	1149.7	983.3	827.1	701.6	568.4	409.7
40°	2663.0	2271.2	1925.5	1651.6	1413.4	1211.1	1034.5	870.6	729.8	596.6	427.6
37.5°	2901.1	2458.1	2086.9	1766.8	1495.4	1272.6	1085.7	911.6	755.4	624.8	450.7
35°	3136.7	2665.5	2240.5	1874.3	1579.9	1341.7	1136.9	950.0	781.0	647.8	471.1
32.5°	3362.0	2860.1	2396.7	1994.7	1672.0	1405.7	1183.0	985.8	806.6	668.3	491.6
30°	3572.0	3044.5	2550.3	2117.6	1756.5	1464.6	1226.5	1021.7	837.3	686.2	512.1
27.5°	3764.0	3223.7	2704.0	2232.8	1835.9	1518.4	1272.6	1055.0	862.9	704.2	530.0
25°	3938.1	3385.1	2844.8	2337.8	1907.6	1577.3	1316.1	1088.2	886.0	719.5	545.4
22.5°	4102.0	3533.6	2972.8	2442.8	1994.7	1636.2	1357.1	1119.0	909.0	734.9	560.8
20°	4245.4	3669.3	3095.7	2547.8	2071.5	1690.0	1392.9	1147.1	929.5	745.1	576.1
17.5°	4360.6	3789.6	3205.8	2639.9	2138.1	1736.1	1423.7	1172.7	947.4	757.9	586.4
15°	4463.1	3892.1	3298.0	2719.3	2197.0	1774.5	1451.8	1193.2	962.8	765.6	599.2
12.5°	4550.1	3979.1	3377.4	2788.5	2248.2	1807.8	1474.9	1208.6	975.6	773.3	606.9
10°	4621.8	4048.3	3444.0	2842.2	2289.1	1833.4	1492.8	1223.9	985.8	781.0	614.5
7.5°	4675.6	4099.5	3492.6	2888.3	2322.4	1851.3	1508.2	1234.2	996.1	786.1	627.3
5°	4716.6	4143.0	3531.0	2919.0	2348.0	1876.9	1526.1	1247.0	1006.3	791.2	627.3
2.5°	4747.3	4178.8	3561.7	2944.6	2368.5	1871.8	1526.1	1244.4	1006.3	791.2	624.8
0°	4742.2	4181.4	3559.2	2944.6	2368.5	1866.7	1526.1	1241.9	1006.3	791.2	624.8



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.9	12.8	5.1	0.0
85°	38.4	25.6	12.8	0.0
82.5°	56.3	35.8	17.9	0.0
80°	74.3	48.7	23.0	0.0
77.5°	94.7	61.5	30.7	0.0
75°	112.7	71.7	35.8	0.0
72.5°	130.6	84.5	41.0	0.0
70°	146.0	94.7	46.1	0.0
67.5°	161.3	107.5	53.8	0.0
65°	174.1	117.8	58.9	0.0
62.5°	184.4	130.6	64.0	0.0
60°	197.2	140.8	69.1	0.0
57.5°	207.4	148.5	74.3	0.0
55°	217.6	153.6	79.4	0.0
52.5°	227.9	161.3	84.5	0.0
50°	238.1	169.0	89.6	0.0
47.5°	248.4	174.1	92.2	0.0
45°	263.7	181.8	97.3	0.0
42.5°	276.5	186.9	102.4	0.0
40°	289.3	192.0	105.0	0.0
37.5°	302.1	197.2	110.1	0.0
35°	314.9	202.3	112.7	0.0
32.5°	325.2	207.4	115.2	0.0
30°	335.4	212.5	117.8	0.0
27.5°	345.7	215.1	120.3	0.0
25°	353.4	220.2	122.9	0.0
22.5°	361.0	222.8	125.5	0.0
20°	366.2	225.3	128.0	0.0
17.5°	373.8	227.9	130.6	0.0
15°	376.4	230.5	135.7	0.0
12.5°	381.5	233.0	135.7	0.0
10°	384.1	235.6	135.7	0.0
7.5°	389.2	235.6	135.7	0.0
5°	386.6	235.6	135.7	0.0
2.5°	386.6	235.6	135.7	0.0
0°	384.1	235.6	135.7	0.0

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