

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: P628350

Luminaire Tested: **IFLD-L-SA8B-760-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628350
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-760-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42845.1 lumens	Max Intensity:	13965.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	133.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

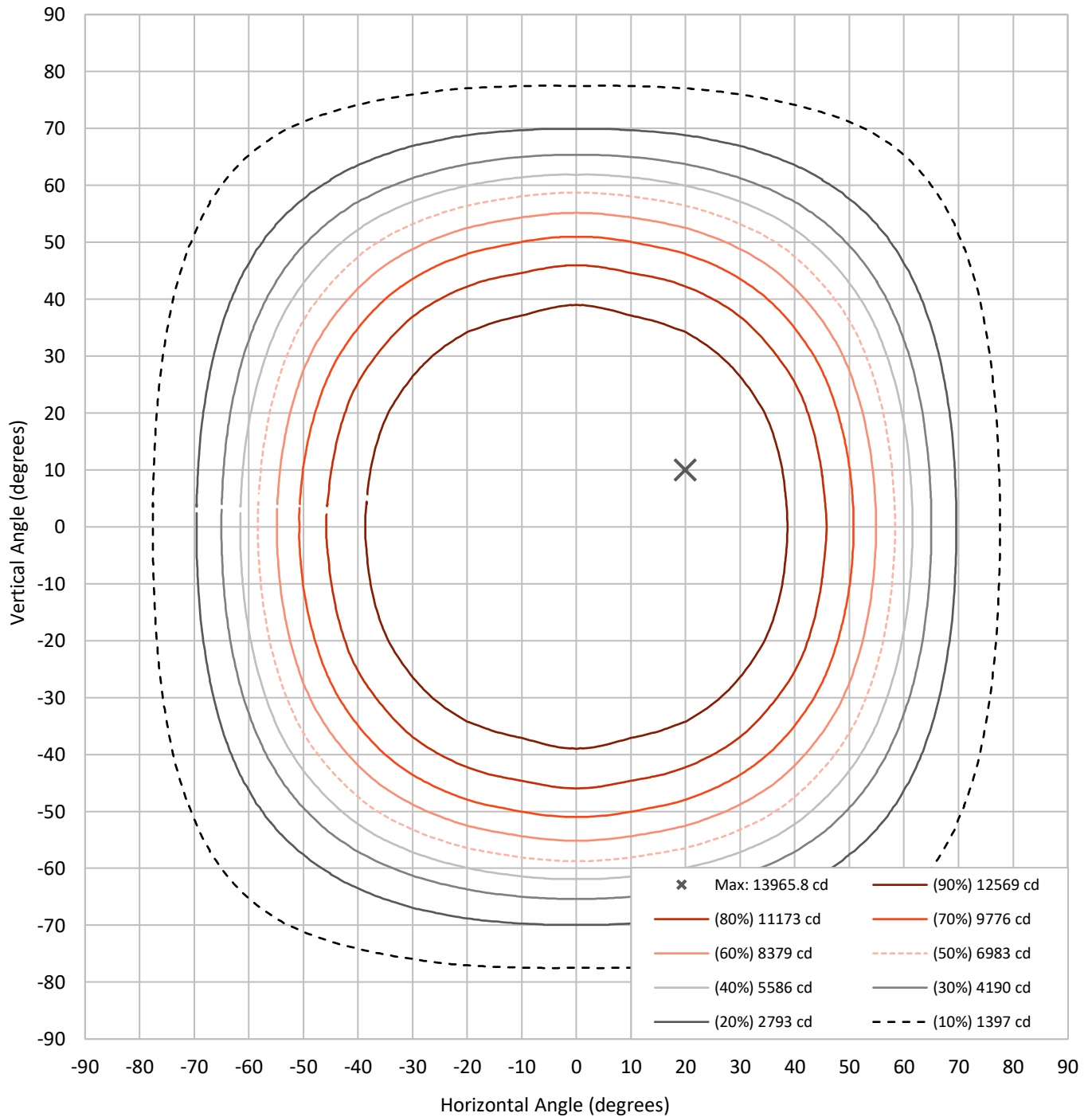
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	26290.6 lumens	Field Lumens:	31518 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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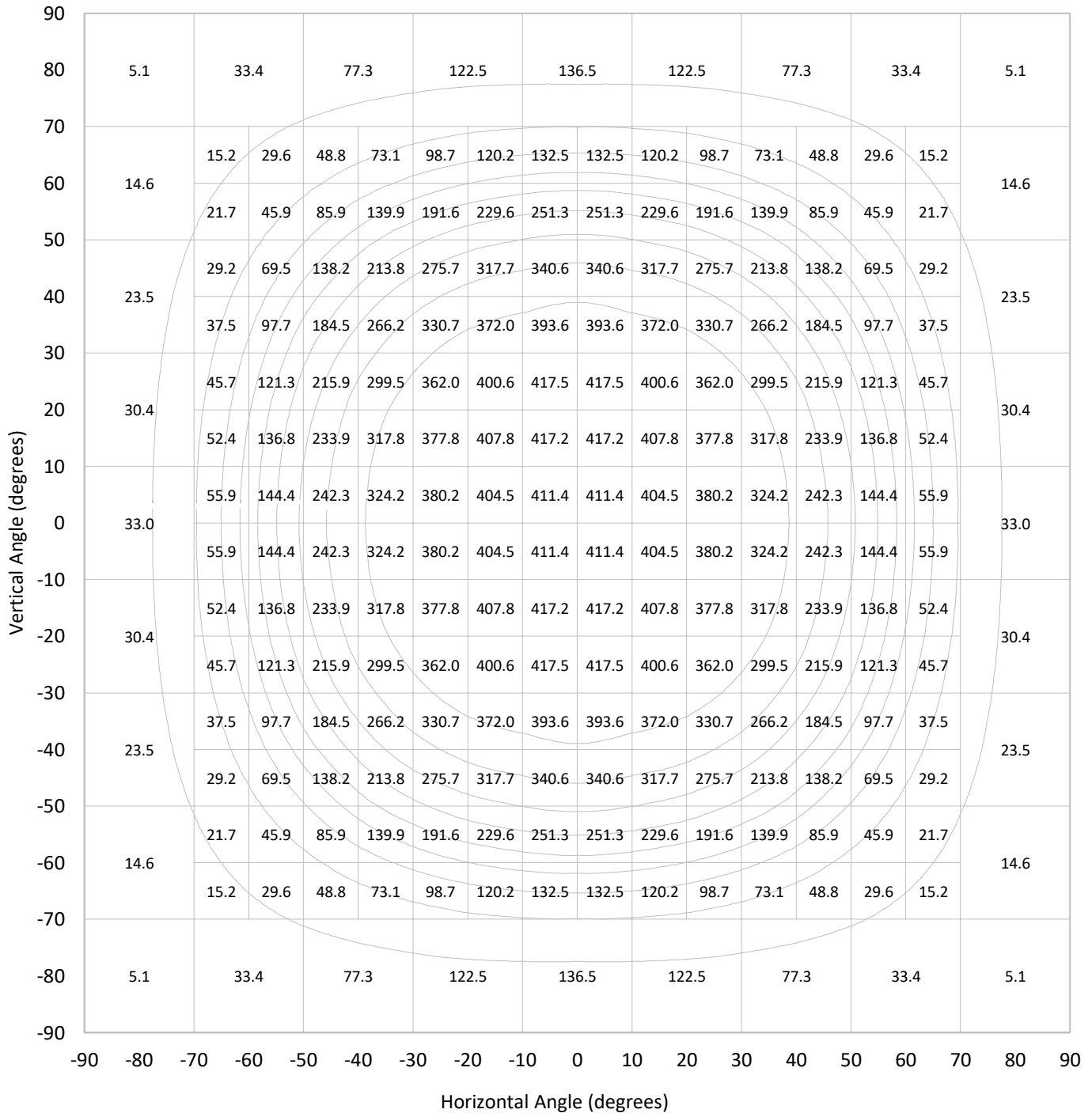
Iso-Candela Plot





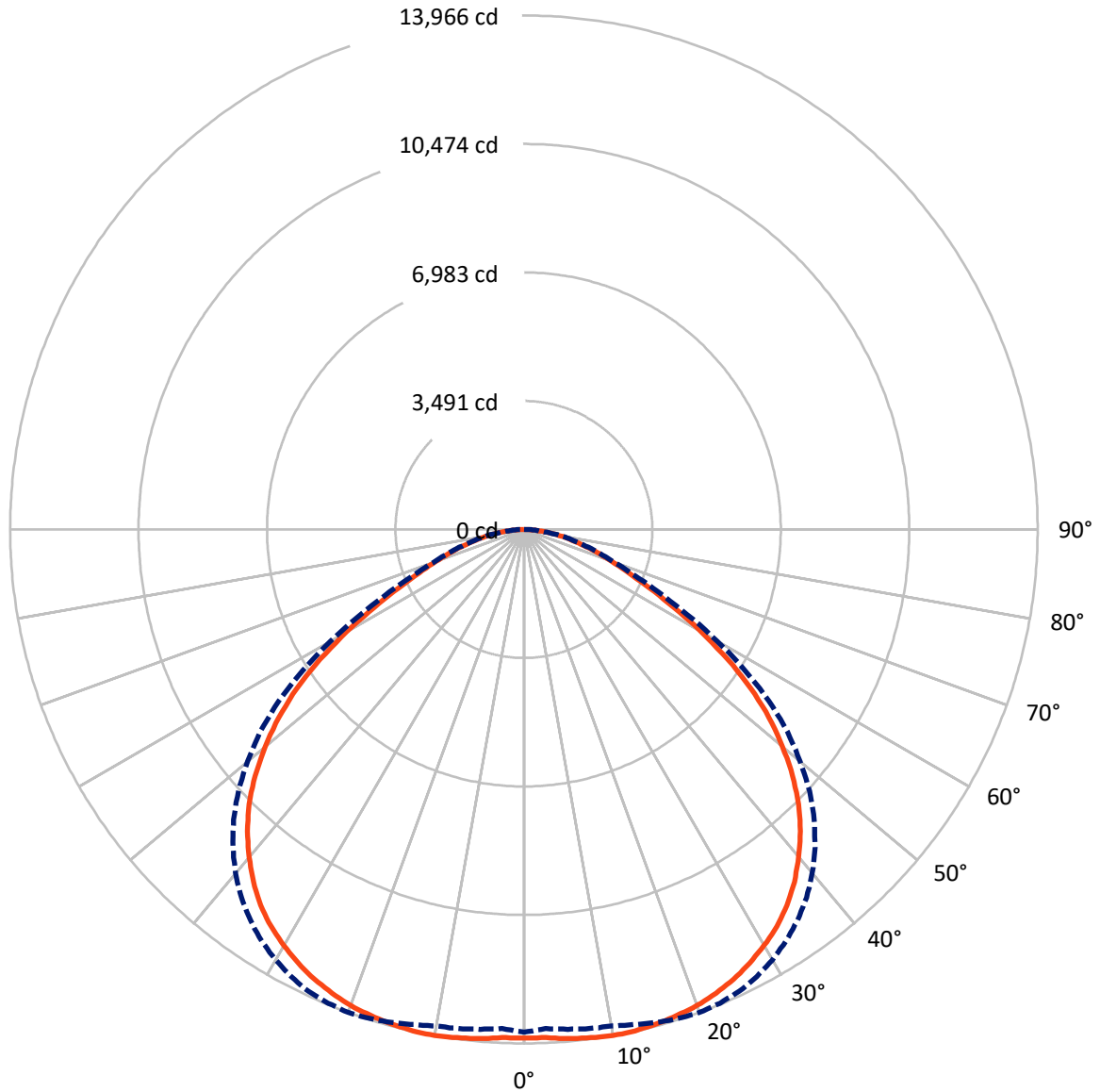
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Lumen Table



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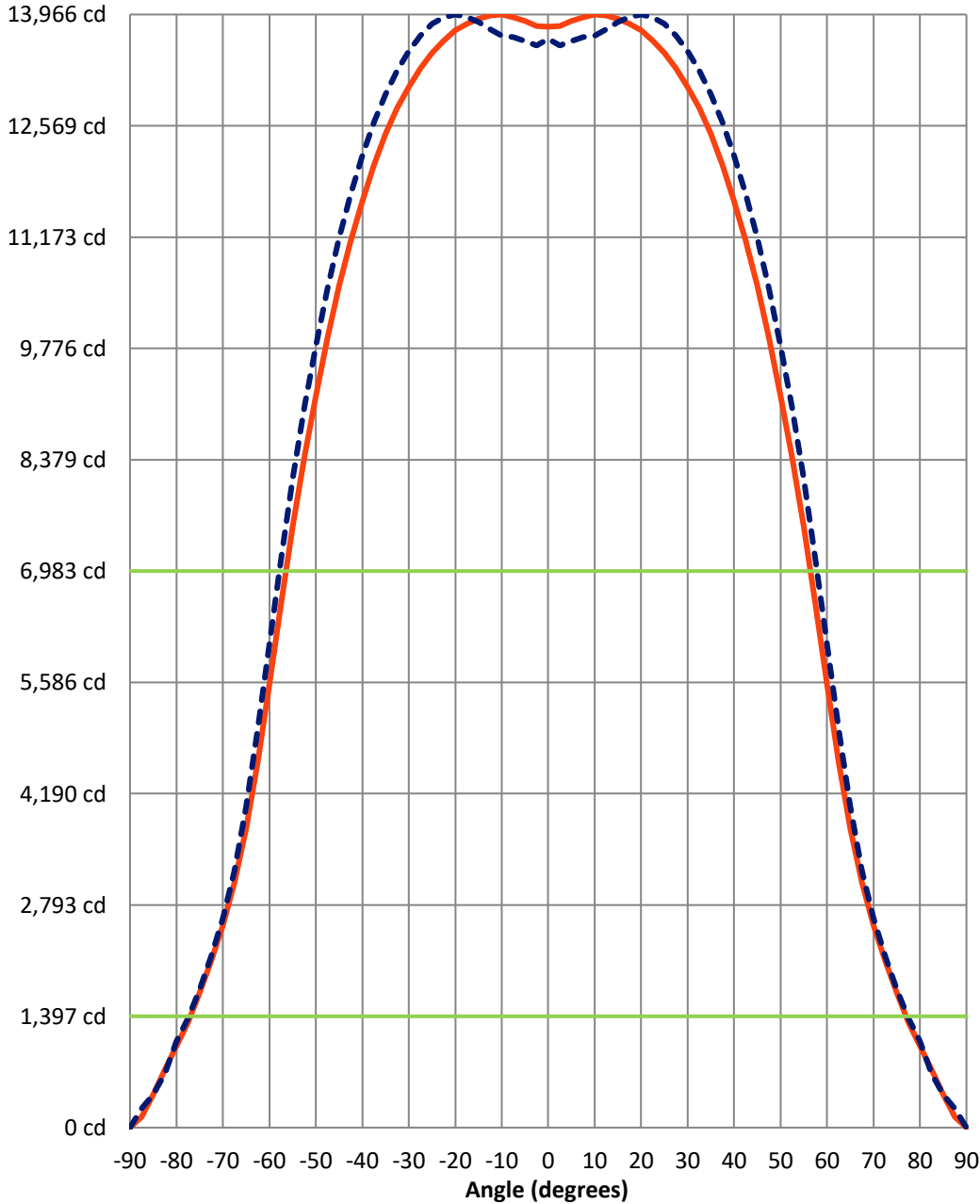
Luminous Intensity Polar Plot



— 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: 26290.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 31518
 Efficiency: 73.6%

Spill:
 Lumens: 11327.1
 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°	112.7	121.7	126.2	130.7	135.2	139.7	144.3	139.7	135.2	135.2	130.7
85°	302.0	311.1	315.6	347.1	378.7	396.7	419.2	414.7	414.7	410.2	405.7
82.5°	604.1	631.1	653.7	685.2	703.2	730.3	748.3	734.8	725.8	707.8	694.2
80°	1072.9	1081.9	1086.4	1090.9	1068.4	1063.9	1054.9	1041.3	1023.3	1000.8	978.2
77.5°	1365.9	1374.9	1384.0	1374.9	1370.4	1365.9	1352.4	1338.9	1320.8	1302.8	1275.8
75°	1807.7	1807.7	1807.7	1794.2	1785.2	1771.6	1749.1	1726.6	1695.0	1658.9	1618.4
72.5°	2276.5	2272.0	2267.5	2240.5	2217.9	2190.9	2159.3	2132.3	2096.2	2055.6	2001.6
70°	2767.9	2776.9	2781.4	2745.4	2718.3	2682.3	2641.7	2592.1	2538.0	2479.4	2402.8
67.5°	3444.1	3435.1	3426.1	3376.5	3340.4	3290.8	3232.2	3160.1	3079.0	2988.8	2880.6
65°	4282.6	4296.1	4269.1	4219.5	4151.9	4070.7	3980.6	3876.9	3755.2	3619.9	3466.6
62.5°	5296.9	5319.4	5287.9	5224.8	5139.1	5030.9	4904.7	4755.9	4589.1	4399.8	4210.5
60°	6450.9	6446.4	6387.8	6302.2	6189.5	6054.2	5914.5	5752.2	5562.9	5342.0	5112.1
57.5°	7510.3	7501.3	7429.2	7343.5	7230.8	7086.6	6937.8	6766.5	6568.2	6333.7	6067.8
55°	8461.5	8452.5	8380.4	8290.2	8173.0	8028.7	7893.5	7731.2	7537.4	7289.4	7005.4
52.5°	9304.5	9309.0	9245.9	9146.7	9020.5	8880.8	8750.0	8587.7	8402.9	8155.0	7880.0
50°	10079.9	10075.4	10007.8	9917.6	9800.4	9665.1	9534.4	9372.1	9178.3	8939.4	8673.4
47.5°	10801.2	10792.1	10715.5	10616.3	10494.6	10377.4	10255.7	10111.4	9908.6	9669.7	9403.7
45°	11405.2	11387.2	11310.6	11215.9	11098.7	10995.0	10886.8	10778.6	10562.2	10341.3	10088.9
42.5°	11923.7	11919.1	11842.5	11747.8	11630.6	11540.5	11441.3	11306.1	11125.7	10922.9	10674.9
40°	12419.5	12383.5	12306.8	12216.7	12108.5	12031.8	11932.7	11797.4	11621.6	11423.3	11184.3
37.5°	12789.2	12793.7	12712.6	12613.4	12518.7	12446.6	12356.4	12230.2	12076.9	11883.1	11644.2
35°	13140.8	13118.3	13050.7	12965.0	12879.3	12798.2	12703.5	12595.3	12469.1	12288.8	12063.4
32.5°	13370.7	13402.3	13321.1	13231.0	13181.4	13118.3	13019.1	12906.4	12793.7	12613.4	12410.5
30°	13623.2	13596.1	13533.0	13456.4	13420.3	13379.7	13294.1	13185.9	13055.2	12892.9	12703.5
27.5°	13799.0	13785.5	13708.8	13636.7	13618.7	13582.6	13515.0	13420.3	13289.6	13131.8	12956.0
25°	13875.6	13884.6	13812.5	13771.9	13771.9	13749.4	13695.3	13614.2	13483.4	13339.2	13167.9
22.5°	13911.7	13902.7	13853.1	13844.1	13866.6	13848.6	13826.0	13753.9	13636.7	13519.5	13375.2
20°	13934.2	13871.1	13826.0	13862.1	13889.1	13884.6	13866.6	13821.5	13767.4	13668.2	13542.0
17.5°	13884.6	13844.1	13790.0	13844.1	13902.7	13907.2	13889.1	13862.1	13848.6	13785.5	13672.8
15°	13762.9	13731.4	13740.4	13794.5	13862.1	13884.6	13898.2	13929.7	13911.7	13862.1	13762.9
12.5°	13681.8	13641.2	13681.8	13735.9	13771.9	13785.5	13893.6	13952.3	13952.3	13907.2	13844.1
10°	13659.2	13578.1	13632.2	13681.8	13699.8	13780.9	13871.1	13934.2	13965.8	13929.7	13848.6
7.5°	13614.2	13560.1	13582.6	13605.1	13708.8	13767.4	13817.0	13884.6	13929.7	13925.2	13853.1
5°	13591.6	13524.0	13533.0	13627.7	13699.8	13740.4	13758.4	13817.0	13884.6	13898.2	13844.1
2.5°	13533.0	13501.5	13569.1	13578.1	13632.2	13663.7	13681.8	13735.9	13821.5	13853.1	13830.5
0°	13501.5	13456.4	13411.3	13447.4	13537.5	13605.1	13632.2	13713.3	13812.5	13844.1	13794.5



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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°	126.2	121.7	117.2	112.7	117.2	117.2	117.2	112.7	117.2	112.7	112.7
85°	392.2	374.2	360.6	342.6	324.6	311.1	293.0	275.0	270.5	266.0	257.0
82.5°	676.2	653.7	631.1	604.1	577.0	545.5	513.9	477.8	468.8	459.8	446.3
80°	951.2	919.6	888.1	856.5	829.5	797.9	761.9	721.3	694.2	671.7	644.6
77.5°	1239.7	1194.6	1149.5	1095.4	1063.9	1032.3	996.3	955.7	915.1	879.1	838.5
75°	1568.8	1519.2	1474.1	1420.0	1361.4	1302.8	1244.2	1190.1	1131.5	1077.4	1023.3
72.5°	1933.9	1861.8	1789.7	1722.1	1649.9	1577.8	1501.2	1429.0	1356.9	1284.8	1208.1
70°	2317.1	2227.0	2136.8	2046.6	1952.0	1857.3	1767.1	1677.0	1586.8	1492.1	1406.5
67.5°	2767.9	2664.2	2547.0	2420.8	2281.0	2159.3	2042.1	1933.9	1825.7	1717.5	1609.4
65°	3331.4	3187.2	3029.4	2858.1	2695.8	2533.5	2362.2	2199.9	2073.7	1947.5	1825.7
62.5°	4025.6	3822.8	3601.9	3381.0	3182.6	2970.8	2772.4	2560.5	2362.2	2181.9	2033.1
60°	4855.1	4580.1	4309.6	4025.6	3750.7	3462.1	3209.7	2948.2	2700.3	2479.4	2263.0
57.5°	5770.2	5450.2	5125.6	4778.5	4404.3	4066.2	3723.6	3381.0	3088.0	2795.0	2551.5
55°	6698.9	6360.8	5995.6	5603.4	5193.2	4760.4	4296.1	3912.9	3511.7	3169.1	2853.6
52.5°	7582.5	7230.8	6852.2	6491.5	6000.1	5504.3	4994.9	4490.0	4021.1	3583.9	3200.7
50°	8371.4	8028.7	7663.6	7244.4	6789.0	6261.6	5693.6	5125.6	4571.1	4057.2	3579.3
47.5°	9092.6	8759.0	8393.9	7974.6	7559.9	6973.9	6401.4	5774.7	5157.1	4566.6	4007.6
45°	9768.8	9430.7	9052.1	8650.8	8173.0	7650.1	7059.5	6428.4	5765.7	5103.1	4458.4
42.5°	10381.9	10043.8	9660.6	9245.9	8772.6	8254.1	7681.6	7046.0	6378.8	5657.5	4949.8
40°	10918.4	10589.3	10219.6	9786.9	9345.1	8799.6	8236.1	7632.0	6942.3	6216.5	5436.6
37.5°	11387.2	11080.7	10715.5	10287.2	9818.4	9331.6	8750.0	8146.0	7523.8	6734.9	5937.0
35°	11801.9	11517.9	11143.8	10738.0	10278.2	9764.3	9218.9	8628.3	7956.6	7217.3	6441.9
32.5°	12162.6	11874.1	11531.5	11125.7	10679.4	10197.1	9638.1	9043.0	8407.4	7654.6	6811.6
30°	12469.1	12189.6	11865.0	11481.9	11053.6	10575.8	10030.3	9430.7	8781.6	8033.3	7199.3
27.5°	12735.1	12469.1	12153.6	11797.4	11387.2	10927.4	10377.4	9773.3	9110.7	8389.4	7555.4
25°	12965.0	12708.0	12415.0	12076.9	11671.2	11220.4	10702.0	10070.9	9408.2	8682.4	7857.4
22.5°	13172.4	12924.4	12631.4	12302.3	11932.7	11481.9	10958.9	10332.3	9660.6	8943.9	8132.4
20°	13357.2	13127.3	12838.8	12500.7	12131.0	11675.7	11157.3	10562.2	9886.0	9182.8	8380.4
17.5°	13506.0	13303.1	13014.6	12658.5	12288.8	11847.0	11342.1	10796.7	10079.9	9385.6	8587.7
15°	13609.6	13411.3	13149.8	12789.2	12428.5	11991.3	11486.4	10922.9	10255.7	9547.9	8759.0
12.5°	13681.8	13469.9	13226.5	12892.9	12532.2	12099.5	11608.1	11053.6	10404.5	9692.2	8907.8
10°	13699.8	13506.0	13262.5	12965.0	12613.4	12194.1	11711.8	11161.8	10526.2	9804.9	9029.5
7.5°	13708.8	13524.0	13303.1	13019.1	12672.0	12266.3	11788.4	11247.5	10616.3	9899.6	9119.7
5°	13704.3	13528.5	13330.1	13055.2	12708.0	12306.8	11838.0	11306.1	10679.4	9962.7	9187.3
2.5°	13690.8	13533.0	13348.2	13082.2	12748.6	12351.9	11887.6	11373.7	10747.1	10016.8	9241.4
0°	13726.9	13591.6	13357.2	13073.2	12757.6	12351.9	11883.1	11382.7	10756.1	10012.3	9236.9



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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°	112.7	108.2	108.2	103.7	99.2	94.7	85.7	81.1	72.1	58.6	45.1
85°	243.4	229.9	216.4	207.4	198.4	189.3	175.8	162.3	144.3	117.2	90.2
82.5°	428.3	401.2	374.2	342.6	315.6	288.5	266.0	243.4	216.4	175.8	135.2
80°	613.1	572.5	531.9	486.9	446.3	401.2	360.6	324.6	288.5	234.4	180.3
77.5°	797.9	743.8	685.2	631.1	572.5	513.9	455.3	405.7	351.6	288.5	225.4
75°	969.2	906.1	852.0	775.4	703.2	626.6	550.0	482.4	414.7	338.1	270.5
72.5°	1140.5	1059.4	982.7	910.6	829.5	734.8	649.2	563.5	477.8	387.7	306.5
70°	1311.8	1212.7	1118.0	1032.3	942.2	847.5	743.8	644.6	541.0	432.8	338.1
67.5°	1487.6	1374.9	1266.7	1158.6	1054.9	946.7	838.5	725.8	604.1	477.8	374.2
65°	1681.5	1541.7	1411.0	1289.3	1167.6	1050.4	928.6	806.9	671.7	527.4	405.7
62.5°	1875.3	1722.1	1568.8	1415.5	1280.3	1149.5	1018.8	883.6	734.8	581.5	437.3
60°	2082.7	1906.9	1731.1	1559.8	1393.0	1248.7	1104.5	960.2	802.4	631.1	468.8
57.5°	2312.6	2100.7	1902.4	1708.5	1519.2	1347.9	1190.1	1036.8	861.0	680.7	504.9
55°	2574.1	2312.6	2078.2	1861.8	1654.4	1447.1	1275.8	1118.0	928.6	730.3	545.5
52.5°	2849.1	2547.0	2263.0	2019.6	1798.7	1564.3	1356.9	1181.1	996.3	779.9	581.5
50°	3169.1	2785.9	2470.4	2172.9	1924.9	1681.5	1442.6	1253.2	1063.9	838.5	617.6
47.5°	3498.2	3074.5	2677.8	2353.2	2060.2	1794.2	1541.7	1316.3	1127.0	892.6	653.7
45°	3881.4	3349.4	2912.2	2529.0	2190.9	1911.4	1640.9	1384.0	1181.1	946.7	689.7
42.5°	4251.0	3674.0	3155.6	2722.8	2339.7	2024.1	1731.1	1456.1	1235.2	1000.8	721.3
40°	4688.3	3998.6	3390.0	2907.7	2488.4	2132.3	1821.2	1532.7	1284.8	1050.4	752.8
37.5°	5107.6	4327.7	3674.0	3110.5	2632.7	2240.5	1911.4	1604.8	1329.9	1100.0	793.4
35°	5522.3	4692.8	3944.5	3299.9	2781.4	2362.2	2001.6	1672.5	1374.9	1140.5	829.5
32.5°	5919.0	5035.4	4219.5	3511.7	2943.7	2474.9	2082.7	1735.6	1420.0	1176.6	865.5
30°	6288.7	5360.0	4490.0	3728.1	3092.5	2578.6	2159.3	1798.7	1474.1	1208.1	901.6
27.5°	6626.8	5675.6	4760.4	3931.0	3232.2	2673.2	2240.5	1857.3	1519.2	1239.7	933.2
25°	6933.3	5959.6	5008.4	4115.8	3358.5	2776.9	2317.1	1915.9	1559.8	1266.7	960.2
22.5°	7221.8	6221.0	5233.8	4300.6	3511.7	2880.6	2389.2	1970.0	1600.3	1293.8	987.3
20°	7474.3	6460.0	5450.2	4485.5	3647.0	2975.3	2452.4	2019.6	1636.4	1311.8	1014.3
17.5°	7677.1	6671.8	5644.0	4647.7	3764.2	3056.4	2506.4	2064.7	1668.0	1334.4	1032.3
15°	7857.4	6852.2	5806.3	4787.5	3867.9	3124.0	2556.0	2100.7	1695.0	1347.9	1054.9
12.5°	8010.7	7005.4	5946.0	4909.2	3958.0	3182.6	2596.6	2127.8	1717.5	1361.4	1068.4
10°	8136.9	7127.1	6063.3	5003.9	4030.1	3227.7	2628.2	2154.8	1735.6	1374.9	1081.9
7.5°	8231.6	7217.3	6148.9	5085.0	4088.8	3259.3	2655.2	2172.9	1753.6	1384.0	1104.5
5°	8303.7	7293.9	6216.5	5139.1	4133.8	3304.4	2686.8	2195.4	1771.6	1393.0	1104.5
2.5°	8357.8	7357.1	6270.6	5184.2	4169.9	3295.3	2686.8	2190.9	1771.6	1393.0	1100.0
0°	8348.8	7361.6	6266.1	5184.2	4169.9	3286.3	2686.8	2186.4	1771.6	1393.0	1100.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	31.6	22.5	9.0	0.0
85°	67.6	45.1	22.5	0.0
82.5°	99.2	63.1	31.6	0.0
80°	130.7	85.7	40.6	0.0
77.5°	166.8	108.2	54.1	0.0
75°	198.4	126.2	63.1	0.0
72.5°	229.9	148.8	72.1	0.0
70°	257.0	166.8	81.1	0.0
67.5°	284.0	189.3	94.7	0.0
65°	306.5	207.4	103.7	0.0
62.5°	324.6	229.9	112.7	0.0
60°	347.1	247.9	121.7	0.0
57.5°	365.1	261.5	130.7	0.0
55°	383.2	270.5	139.7	0.0
52.5°	401.2	284.0	148.8	0.0
50°	419.2	297.5	157.8	0.0
47.5°	437.3	306.5	162.3	0.0
45°	464.3	320.1	171.3	0.0
42.5°	486.9	329.1	180.3	0.0
40°	509.4	338.1	184.8	0.0
37.5°	531.9	347.1	193.8	0.0
35°	554.5	356.1	198.4	0.0
32.5°	572.5	365.1	202.9	0.0
30°	590.5	374.2	207.4	0.0
27.5°	608.6	378.7	211.9	0.0
25°	622.1	387.7	216.4	0.0
22.5°	635.6	392.2	220.9	0.0
20°	644.6	396.7	225.4	0.0
17.5°	658.2	401.2	229.9	0.0
15°	662.7	405.7	238.9	0.0
12.5°	671.7	410.2	238.9	0.0
10°	676.2	414.7	238.9	0.0
7.5°	685.2	414.7	238.9	0.0
5°	680.7	414.7	238.9	0.0
2.5°	680.7	414.7	238.9	0.0
0°	676.2	414.7	238.9	0.0

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